MAY 2018

Section No.

Section No.

Section No.

Section No.

Section No. Section No.

Section No.

TOTAL SHEETS =

Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Festimate of Quantities DEPARTMENT OF TRANSPORTATION

BEGIN PROJECT STA 101+37.34

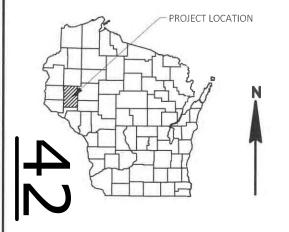
Y=170675.580 X=163532.665 PLAN OF PROPOSED IMPROVEMENT

C MENOMONIE, MAIN STREET/13TH STREET

13TH STREET/13TH AVENUE TO 9TH STREET/MAIN STREET

DUNN COUNTY

7996-00-09



Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

Cross Sections

184

DESIGN DE	SIGNATIO	N .	MAIN ST	13TH ST
A.A.D.T.	(2018)	=	2290	660
A.A.D.T.	(2038)	=	2530	730
D.H.V.		=		
D.D.		=	50/50	50/50
T.		=	3.3%	3.3%
DESIGN SPEE	D	=	30 MPH	30 MPH
ESALS		=	180,000	52,000

CONVENTIONAL SYMBOLS

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

WOODED OR SHRUB AREA

•		
	PROFILE	
1//////	GRADE LINE	
	ORIGINAL GROUND	
	MARSH OR ROCK PROFILE (To be noted as such)	
L	SPECIAL DITCH	
	GRADE ELEVATION	
	CULVERT (Profile View)	
300,EB,	UTILITIES	
	ELECTRIC	
	FIBER OPTIC	
	GAS	
M	SANITARY SEWER	
-CAUTION-	STORM SEWER	
	TELEPHONE	
(III)	WATER	
الطيط	UTILITY PEDESTAL	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	POWER POLE	

_ ROCK_
LADEL
LABEL
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R-13-W

CITY OF MENOMONIE 24 JAN 18 < **END PROJECT** STA 220+54.30 CEDARBURG - GREEN BAY - MADISON - MENOMONIE www.cedarcorp.com 800-472-7372 SCONS, GREGORY R. ADAMS E-35114 WOODVILLE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY CEDAR CORPORATION

FEDERAL PROJECT

WISC 2018262

CONTRACT

STATE PROJECT

7996-00-09

TELEPHONE POLE

### GENERAL NOTES

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.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

THE 4.5" HMA PAVEMENT ON MAIN STREET SHALL BE CONSTRUCTED WITH A 2.5" LOWER LAYER OF 3 LT 58-28 S AND A 2.0" UPPER LAYER OF 4 LT 58-34 S. THE 4.0' HMA PAVEMENT ON 13TH STREET SHALL BE CONSTRUCTED WITH A 2.25" LOWER LAYER OF 3 LT 58-28 S AND A 1.75" UPPER LAYER OF 4 LT 58-34 S.

BEARINGS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DUNN COUNTY.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER. USE SEED MIX NO. 40 AND FERTILIZER TYPE B.

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

BENCHMARKS REFERENCED TO THE NORTH AMERICAN DATUM 1983 (2011).

### STANDARD ABBREVIATIONS

ABUTMENT

ABUT	ADUTMENT	UFF	OFFSET
AGG	AGGREGATE	PC	POINT OF CURVATURE
ET AL	AND OTHERS	PI	POINT OF INTERSECTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC		POINT OF TANGENCY
BF	BACK FACE	POL	POINT ON LINE
ВМ	BENCHMARK	PE	PRIVATE ENTRANCE
	CENTERLINE	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PSI	POUNDS/SQUARE INCH
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RR	RAILROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CMP	CORRUGATED METAL PIPE	REO'D	REQUIRED
CTH	COUNTY TRUNK HIGHWAY	RT	RIGHT
CR	CREEK	RHF	RIGHT-HAND FORWARD
CFS	CUBIC FEET/SECOND	R/W	RIGHT-OF-WAY
CULV	CULVERT	RD	ROAD
D	DEGREE OF CURVE	SEC	SECTION
DHV	DESIGN HOUR VOLUME	S	SOUTH
DIA	DIAMETER	SE	SOUTHEAST
E	EAST	SW	SOUTHWEST
ĒL	ELEVATION	STH	STATE TRUNK HIGHWAY
EST	ESTIMATED	STA	STATION
FPS	FEET PER SECOND	SE	SUPER ELEVATION
FE	FIELD ENTRANCE	T	TANGENT
FT	FOOT (FEET)	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPORARY
FDN	FOUNDATION	Ti	TEMPORARY INTEREST
FF	FRONT FACE	TLE	TEMPORARY LIMITED EASEMENT
IP	IRON PIN	TL OR T/L	TRANSIT LINE
ĽΤ	LEFT	T	TRUCKS
LHE	LEFT-HAND FORWARD	TYP	TYPICAL
L	LENGTH OF CURVE	U/G	UNDERGROUND
ĹF	LINEAR FOOT	USH	UNITED STATES HIGHWAY
MAX	MAXUMUM	VAR	VARIABLE
MI	MILE	VAN	VELOCITY
MIN	MINIMUM	VPC	VERTICAL POINT OF CURVATURE
NC	NORMAL CROWN	VPI	VERTICAL POINT OF CORVATORE  VERTICAL POINT OF INTERSECTION
NC N	NORTH	VPT	VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY
NE NE	NORTH	W	WEST
		W YB	YARD
NW NO	NORTHWEST	10	IARU
NO	NUMBER		

OFF

OFFSET

### DNR LIAISON

DNR WEST CENTRAL REGION HO 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 (715) 836-6571 AMY LESIK AmyL.Lesik@Wisconsin.gov

#### CITY OF MENOMONIE

DIRECTOR OF PUBLIC WORKS 800 WILSON AVE MENOMONIE, WI 54751 (715) 232-2207 RANDY EIDE reide@menomonie-wi.gov

#### DESIGN CONSULTANT

CEDAR CORPORATION 2820 WALTER COMMONS WEST SUITE 142 MADISON, WI 53718 (608) 237-5842 JOSH WEISS, P.E. josh.weiss@cedarcorp.com

### <u>UTILITIES</u>

304 SOUTH DEWEY ST EAU CLAIRE, WI 54701 (715) 839-5565 RICK PODOLAK rp4514@att.com

CHIPPEWA VALLEY INTERNETWORKING CONSORTIUM (CINC) 105 GARFIELD AVE EAU CLAIRE, WI 54701 (715) 232-2671 MIKE DODOR Dodorm@uwstout.edu

CHARTER COMMUNICATIONS 1201 McCANN DR ALTOONA, WI 54720 (715) 831-8940 EX. 51113 SHANE YODER shane.yoder@chartercom.com

CITY OF MENOMONIE - SANITARY 604 WILSON AVE MENOMONIE, WI 54751 (715) 235-9081 GREG ADAMS greg.adams@cedarcorp.com

CITY OF MENOMONIE - WATER 604 WILSON AVE MENOMONIE, WI 54751 (715) 235-9081 GREG ADAMS  ${\tt greg.adams@cedarcorp.com}$ 

WEST WISCONSIN TELCOM CO-OP PO BOX 115 DOWNSVILLE, WI 54735 (715) 231-0504 BRAD SCHMIDTKNECHT brads@wwt.coop

XCEL ENERGY - ELECTRIC 320 HELLER RD MENOMONIE, WI 54751 (715) 232-7412 MEGAN BOLDIG megan.m.boldig@xcelenergy.com

## RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		А			В С		D					
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE	CONCRETE .8095											
BRICK	BRICK .7080											
DRIVES, WALKS						.7585						
ROOFS	.7595											
GRAVEL ROADS.	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 5.43 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.43 ACRES

320 HELLER RD MENOMONIE, WI 54751 (715) 232-7412 MEGAN BOLDIG megan.m.boldig@xcelenergy.com

XCEL ENERGY - ELECTRIC

XCEL ENERGY - GAS 320 HELLER ROAD MENOMONIE, WI 54751 (715) 232-7415 MIKE JOHNSEN

michael.a.johnsen@xcelenergy.com

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
TYPICAL SECTIONS CONSTRUCTION DETAILS INTERSECTION DETAILS RETAINING WALL DETAILS WATERMAIN EROSION CONTROL STORM SEWER
PAVEMENT MARKING & SIGNING

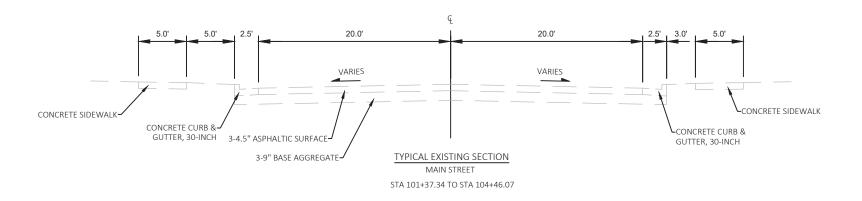
Dial 811 or (800)242-8511

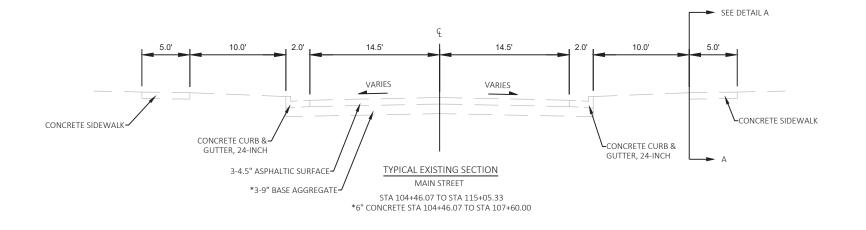
www.DiggersHotline.com

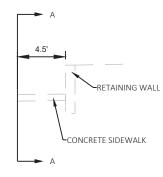
**DENOTES UTILITIES THAT ARE  $\underline{\mathsf{NOT}}$ DIGGERS HOTLINE MEMBERS

Ε

7996-00-09 HWY: LOCAL STREET COUNTY: DUNN **GENERAL NOTES** 



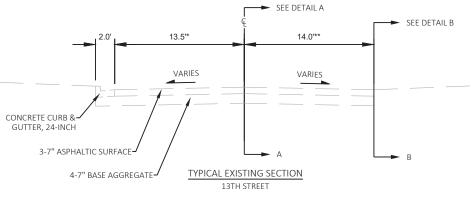




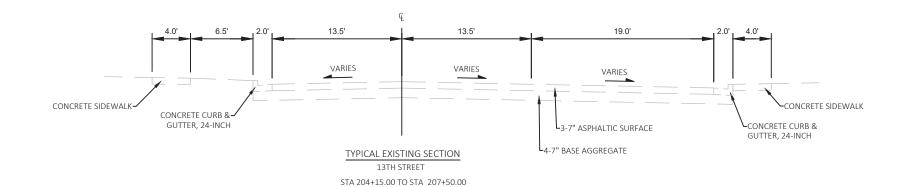
RETAINING WALL DETAIL A STA 108+28.44 TO STA 109+64.30

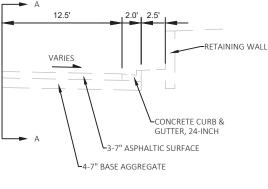
Ε PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN TYPICAL SECTIONS SHEET FILE NAME : 1/17/2018 2:33 PM PLOT BY: BRIAN GENSKOW PLOT NAME : ##########



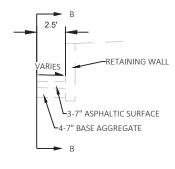


STA 197+74.09 TO STA 204+15.00 *17' STA 197+78.40 TO 201+56.43 *VARIES 13.5-17' STA 201+56.63 TO STA 202+28.98 **VARIES 16.0-18.0' STA 203+00.35 TO STA 203+56.40 **15.2' STA 203+56.40 TO STA 203+85.01

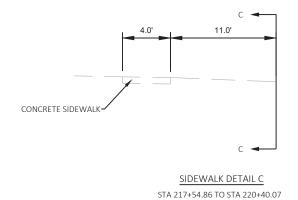




RETAINING WALL DETAIL A STA 197+74.04 TO STA 201+54.93

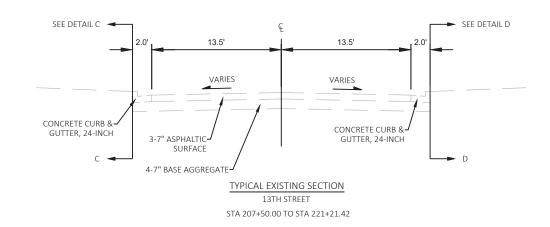


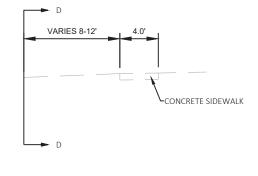
RETAINING WALL DETAIL B
STA 201+54.93 TO STA 201+97.48



7996-00-09

PROJECT NO:





SIDEWALK DETAIL D
STA 210+92.11 TO STA 221+21.42

FILE NAME: I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENT\$\79960008\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 02-ts

HWY: LOCAL STREET

PLOT DATE : 1/5/2018 8:45 AM

COUNTY: DUNN

OT BY: BRIAN GENSKOW

TYPICAL SECTIONS

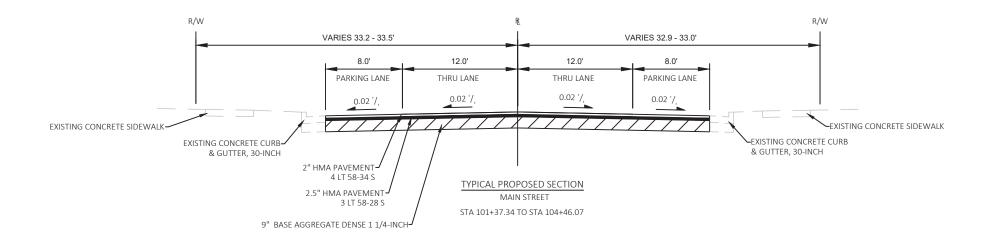
PLOT NAME :

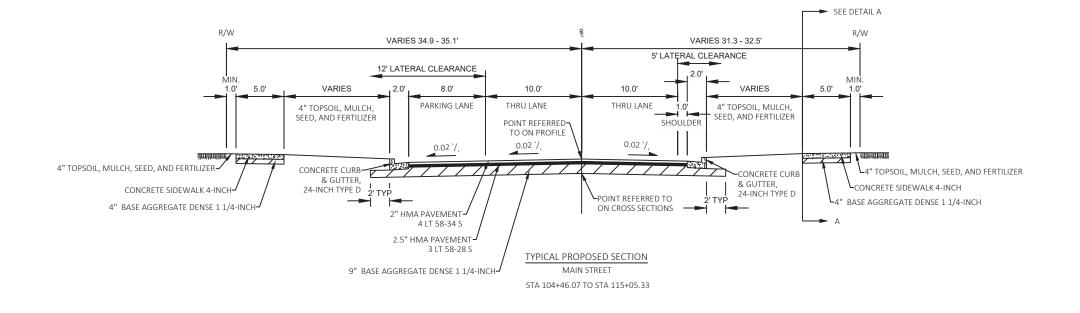
PLOT SCALE :

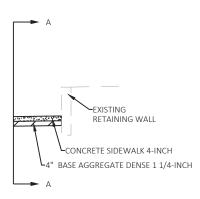
SHEET

Ε



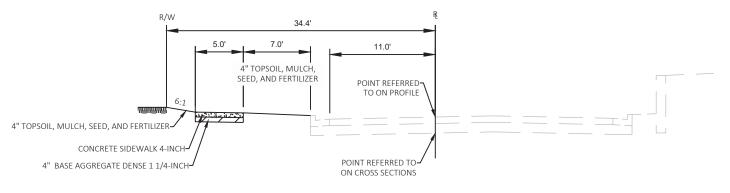


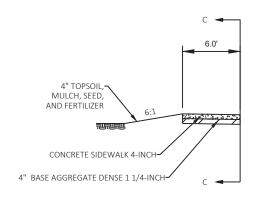




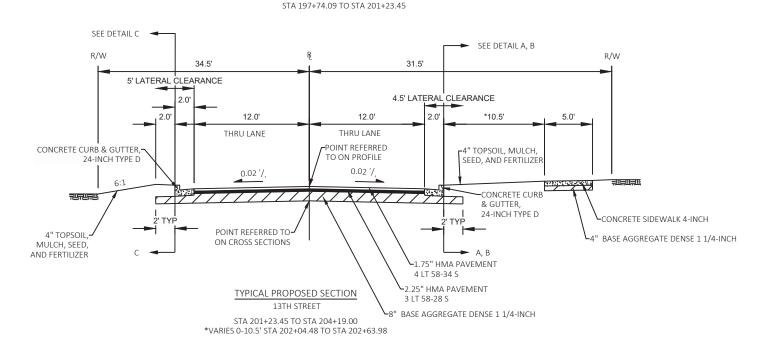
RETAINING WALL DETAIL A STA 108+28.44 TO STA 109+64.30

SUPERELEVATION TABLE							
STATION	CROSS SLOPE						
STATION	LT LANE	ANE RTLANE RTPARKING					
201+23.45	-0.02	-0.02					
203+86.00	-0.02	-0.02					
204+50.00	-0.02	-0.02	-0.02				
212+92.00	-0.02	-0.02	-0.02				



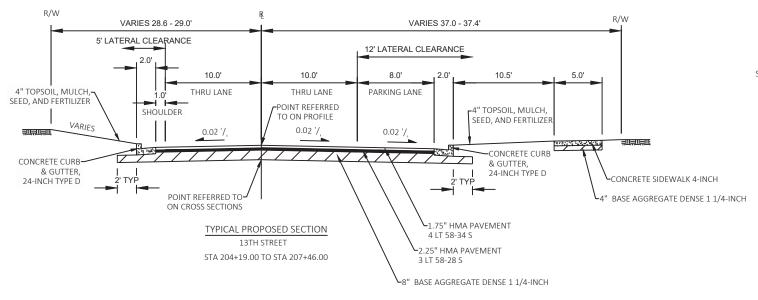


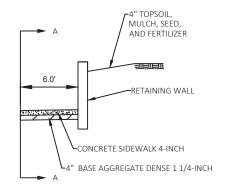
SIDEWALK DETAIL C STA 201+05.95 TO STA 201+42.45



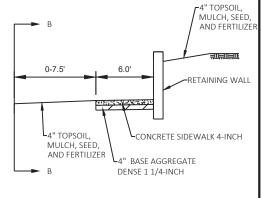
TYPICAL PROPOSED SECTION

13TH STREET



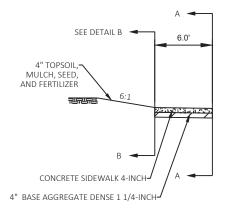


RETAINING WALL DETAIL A STA 201+23.45 TO STA 202+04.48

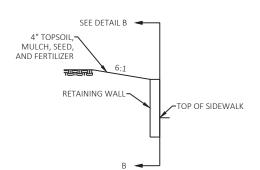


RETAINING WALL DETAIL B STA 202+04.48 TO STA 202+50.00



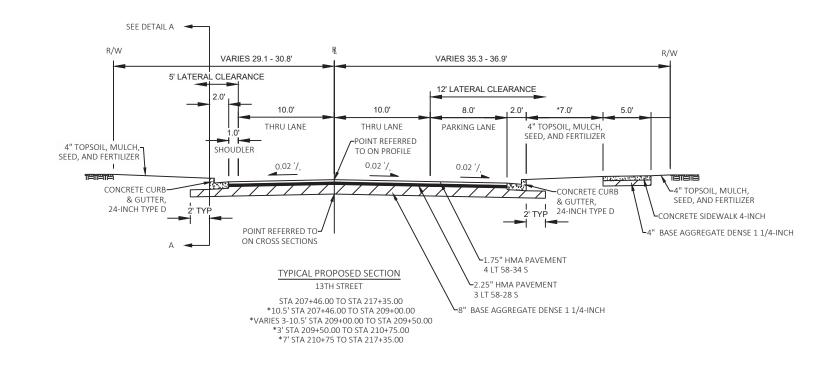


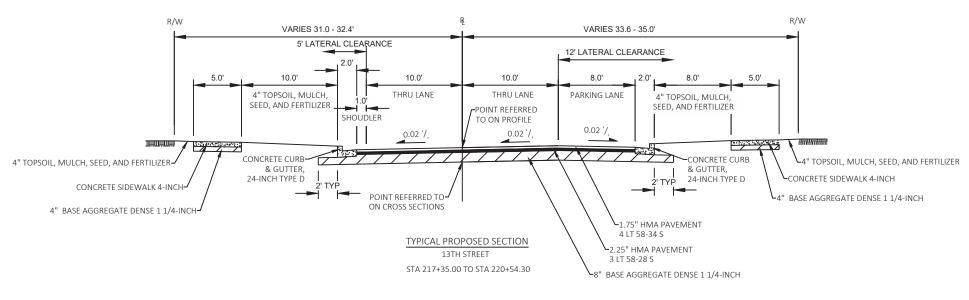
## SIDEWALK DETAIL A STA 216+53.39 TO STA 217+17.48



RETAINING WALL DETAIL B STA 216+75.00 TO STA 217+07.13

SUPERELEVATION TABLE							
STATION	CROSS SLOPE						
STATION	LT LANE	RT LANE	RT PARKING LANE				
212+92.00	-0.02	-0.02	-0.02				
213+28.00	0.0	-0.02	-0.02				
213+64.00	0.02	-0.02	-0.04				
214+41.00	0.02	-0.02	-0.04				
214+77.00	0.0	-0.02	-0.04				
215+13.00	-0.02	-0.02	-0.04				
215+32.00	-0.02	-0.02	-0.04				
215+68.00	-0.02	-0.02	-0.02				
216+04.00	-0.02	-0.02	-0.02				
216+40.00	-0.02	0.0	-0.02				
216+76.00	-0.02	0.02	-0.02				
217+73.00	-0.02	0.02	-0.02				
218+09.00	-0.02	0.0	-0.02				
218+45.00	-0.02	-0.02	-0.02				
218+55.00	-0.02	-0.02	-0.02				
218+91.00	-0.02	0.0	-0.02				
219+27.00	-0.02	0.02	-0.02				
220+54.30	-0.02	0.02	-0.02				





PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN TYPICAL SECTIONS SHEET

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 05-ts

FILE NAME :

PLOT DATE : 1/5/2018 8:45 AM

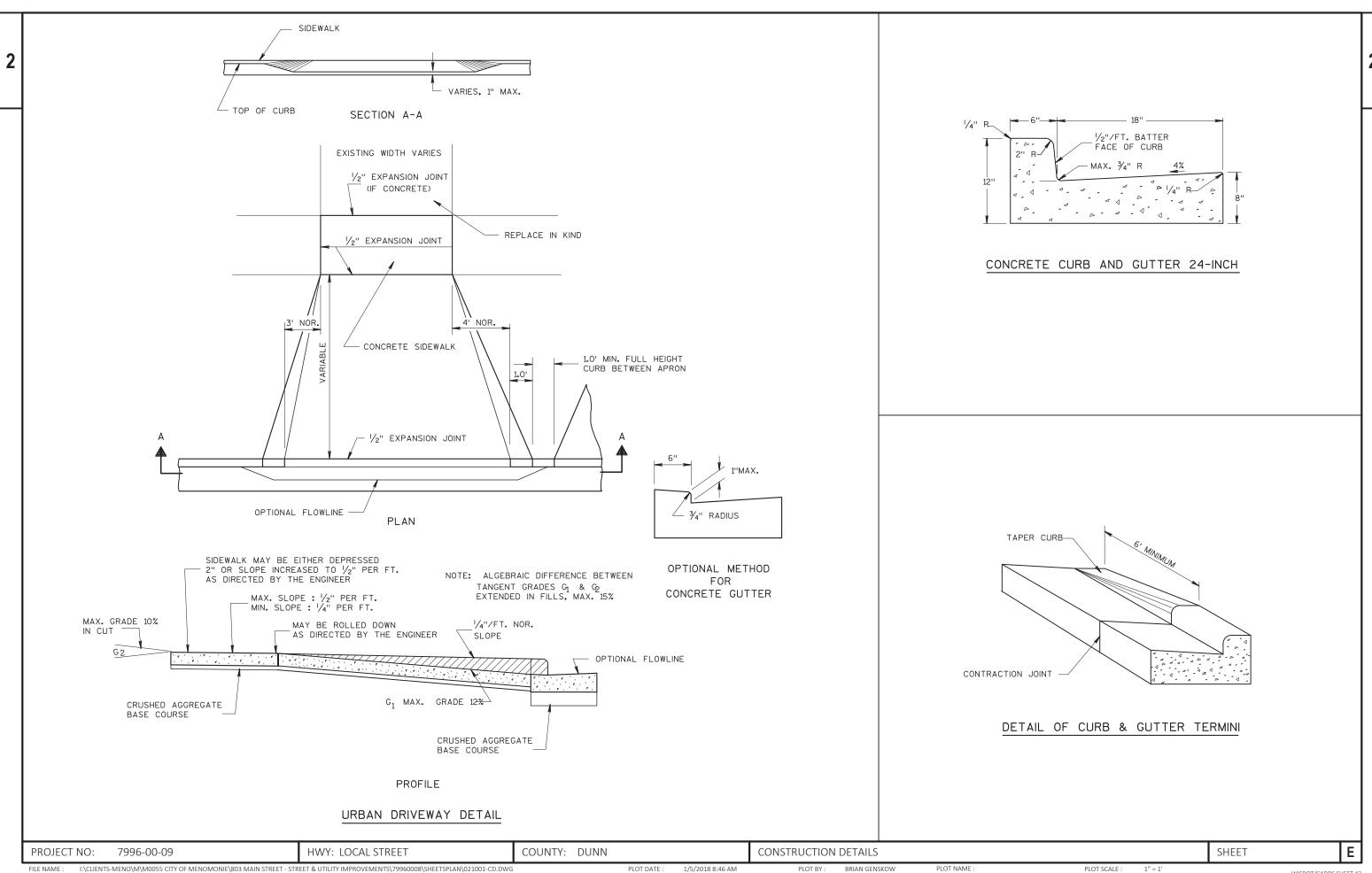
BY: BRIAN GENSKOW

PLOT NAME

PLOT SCALE :

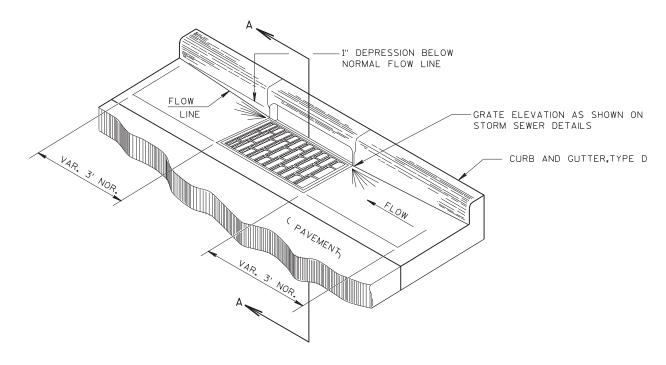
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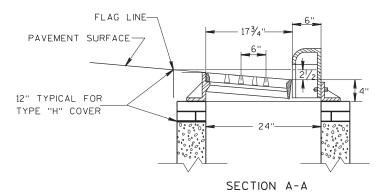
WISDOT/CADDS SHEET 42



I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENT\$\79960008\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 01-cd

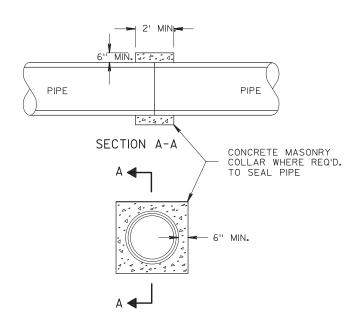
### ELEVATION





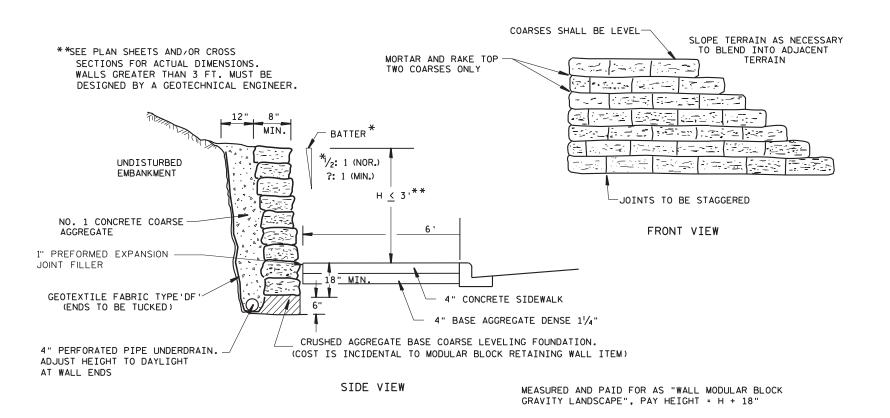
### DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)



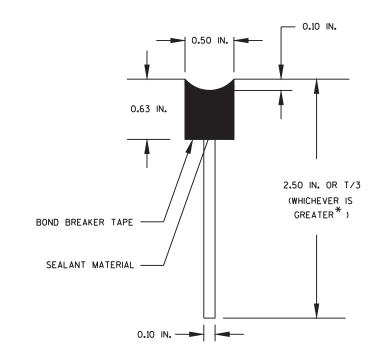
CONCRETE COLLAR DETAIL

Ε PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN CONSTRUCTION DETAILS SHEET



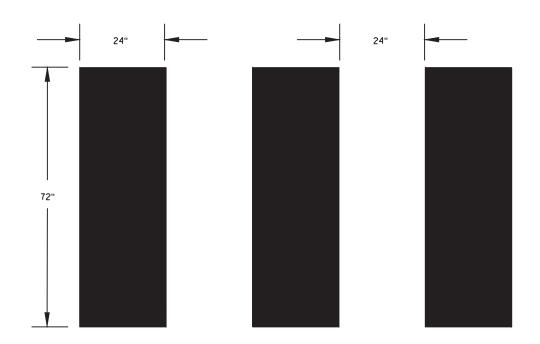
DETAIL FOR WALL MODULAR BLOCK GRAVITY LANDSCAPE

PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN CONSTRUCTION DETAILS SHEET BRIAN GENSKOW FILE NAME : 1/5/2018 8:46 AM PLOT SCALE :



* WHERE T = TOTAL THICKNESS OF THE OVERLAY OR NEW BITUMINOUS SURFACE

HMA JOINT SAWING AND SEALING

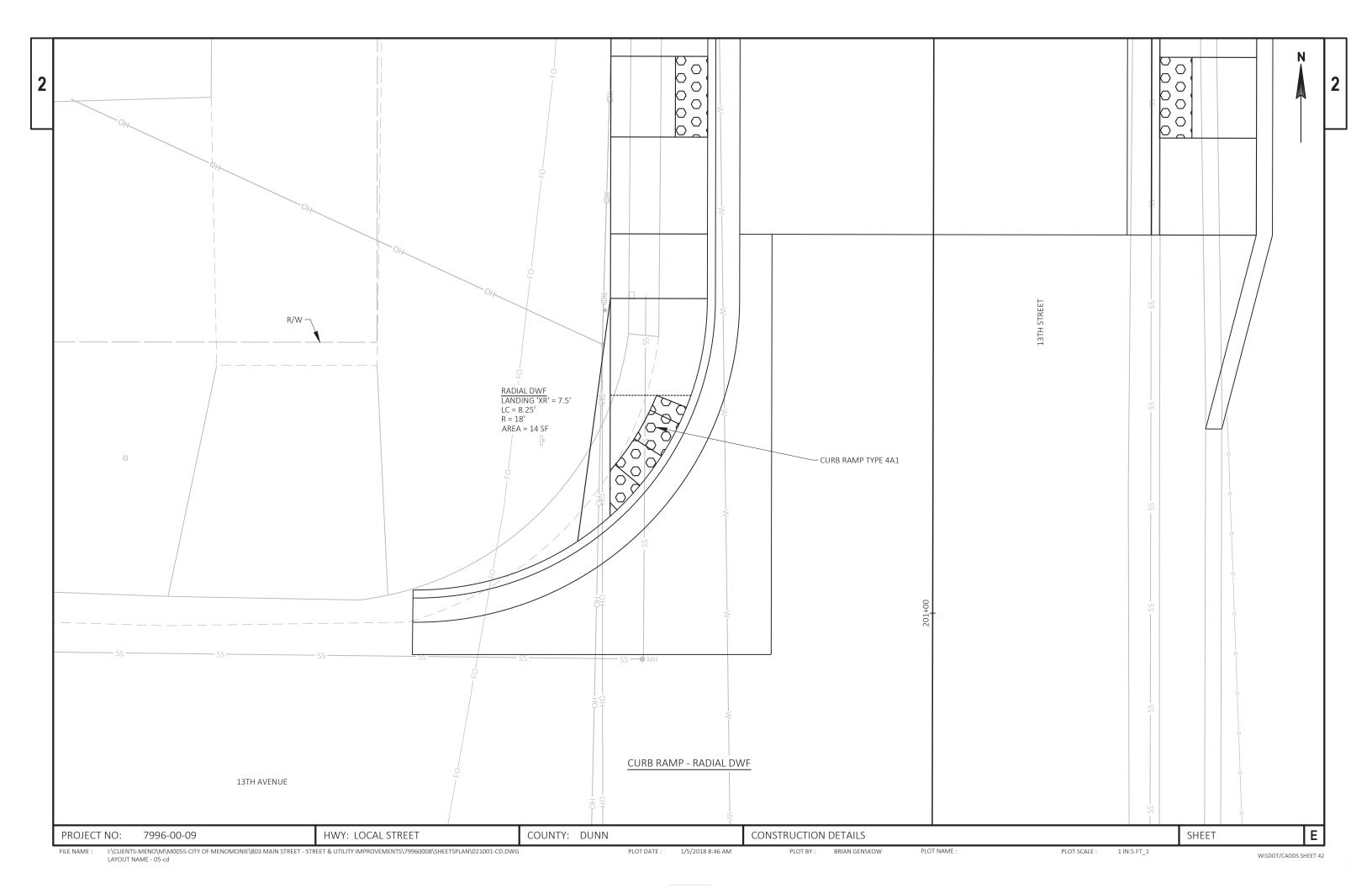


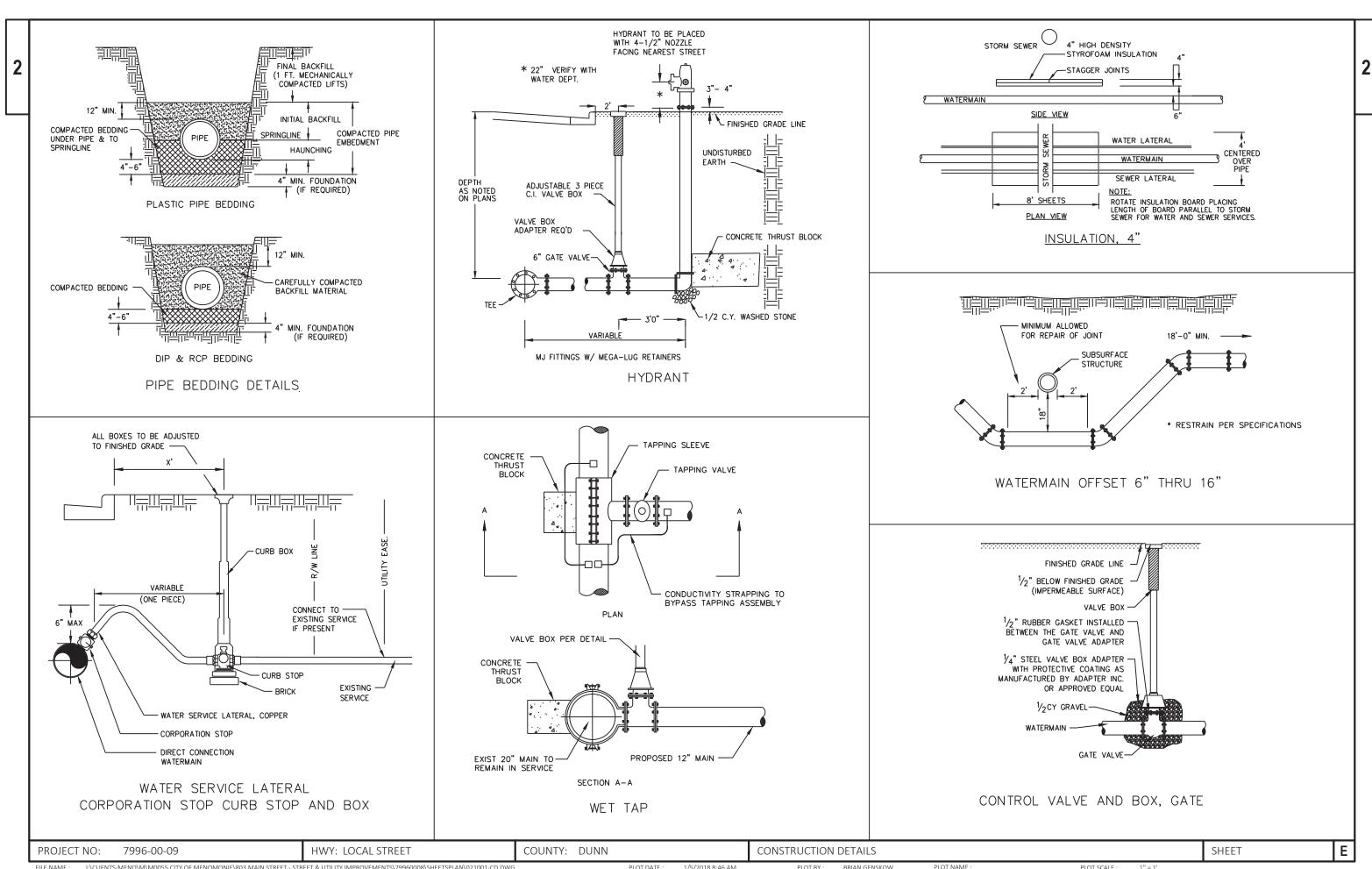
MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH

2' × 6' BARS

Ε COUNTY: DUNN CONSTRUCTION DETAILS SHEET PROJECT NO: 7996-00-09 HWY: LOCAL STREET PLOT BY: BRIAN GENSKOW PLOT DATE : 1/5/2018 8:46 AM FILE NAME :

BRICK PAVER DETAIL

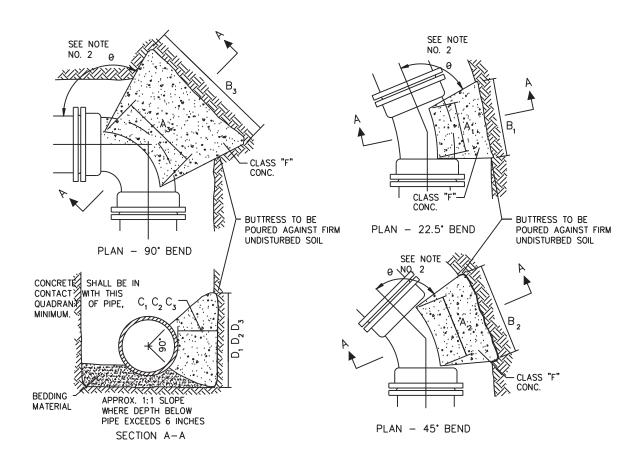




FILE NAME : I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\021001-CD.DWG PLOT DATE · 1/5/2018 8:46 AM PLOT BY · LAYOUT NAME - 06-cd

BRIAN GENSKOW

PLOT SCALE:



#### BUTTRESS DIMENSIONS 22.5° BENDS 45° BENDS 90° BENDS B₂ B 3 SIZE Вı Dι D₂ D 3 6" 1'-0" 1'-0" 1'-0" 1'-4" 1'-2" 1'-0" 8" 1'-0" 1'-0" 1'-4" 1'-2" 1'-10" 1'-6" 12" 1'-4" 1'-4" 1'-10" 1'-10" 2'-8" 2'-3" 16" 1'-8" 1'-10" 2'-6" 2'-4" 3'-10" 2'-10" 20" 2'-4" 2'-0" 3'-3" 2'-10" 5'-0" 3'-4"

3'-3"

6'-4"

3'-10" 8'-0" 4'-8"

2'-4" 4'-0"

3'-0" 5'-4"

24"

30"

FILE NAME .

2'-10"

3'-6"

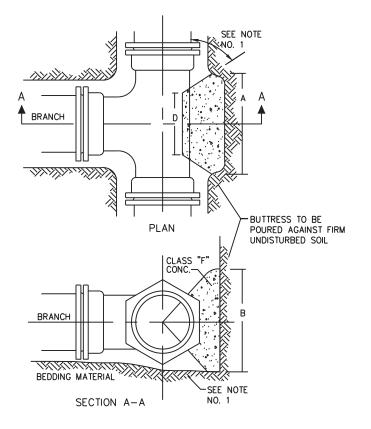
### NOTES:

- 1. A WATER PRESSURE OF 150 PSI AND AN EARTH RESISTANCE OF 2 TONS/SQ FT
- DIMENSIONS C₁ C₂ C₃ SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45*.
- 3. DIMENSIONS  $A_1$   $A_2$   $A_3$  SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
- SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM, UNDISTURBED EARTH.
- ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

"STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, FILE NO. 44"

BUTTRESS FOR BENDS

3'-10"



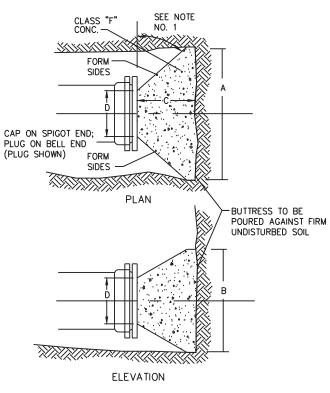
### NOTES:

- BUTTRESS SIZE IS CONTROLLED
   BY THE BRANCH PIPE DIAMETER.
   DIMENSION "C" SHOULD BE LARGE
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45 DEGREES.
- CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AS A MINIMUM.
- DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
- BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ FT AND A WATER PRESSURE OF 150 PSI
- 6. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

BUTTRESS DIMENSIONS									
BD	Α	В	С	D					
4"	0"-10"	1-6"							
6"	1-6"	1-8"							
8"	1-9"	2'-4"	SEE	SEE					
10"	1-9"	2'-4"	NOTE	NOTE					
12"	2-3"	2'-7"	NO. 2	NO. 4					
16"	3'-8"	2'-10"							
20"	5'-0"	3'-10"							
24"	5'-4"	4'-8"							

BD = BRANCH DIAMETER

BUTTRESS FOR TEES



### NOTES:

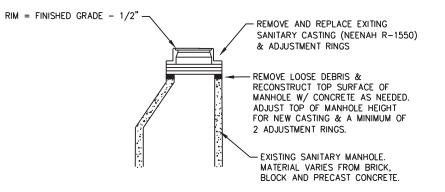
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45 DEGREES.
- DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE MJ BOLTS.
- WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
- 4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ FT. AND A WATER PRESSURE OF 150 PSI.

BUTTRESS DIMENSIONS							
DIA.	Α	В	С	D			
4"	1'-5"	1'-0"					
6"	1'-7"	1'-9"					
8"	2'-4"	2'-0"	SEE	SEE			
10"	2'-4"	2'-0"	NOTE	NOTE			
12"	2'-8"	2'-6"	NO. 1	NO. 2			
16"	3'-4"	3'-6"					
20"	3'-10"	4'-9"					
24"	4'-8"	5'-6"					

BUTTRESS FOR DEAD ENDS

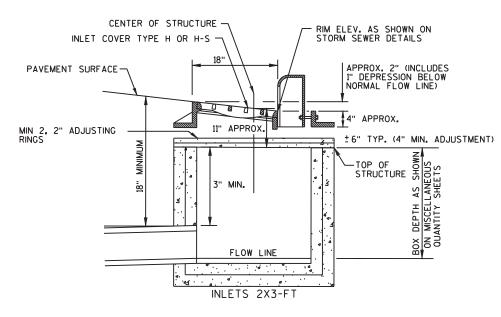
PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN CONSTRUCTION DETAILS SHEET **E** 

FILE NAME :



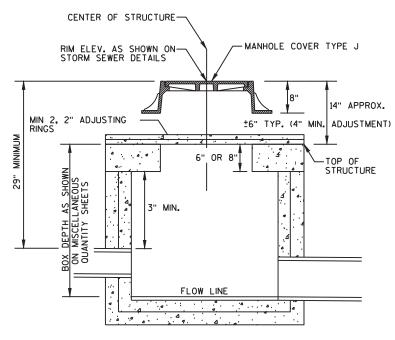
REMOVE & REPLACE SANITARY MANHOLE CASTING & ADJUSTMENT RINGS

### STATION, OFFSETS FOR INLETS ARE TO CENTER OF STRUCTURE



DETAIL FOR COMPUTING INLET ELEVATIONS

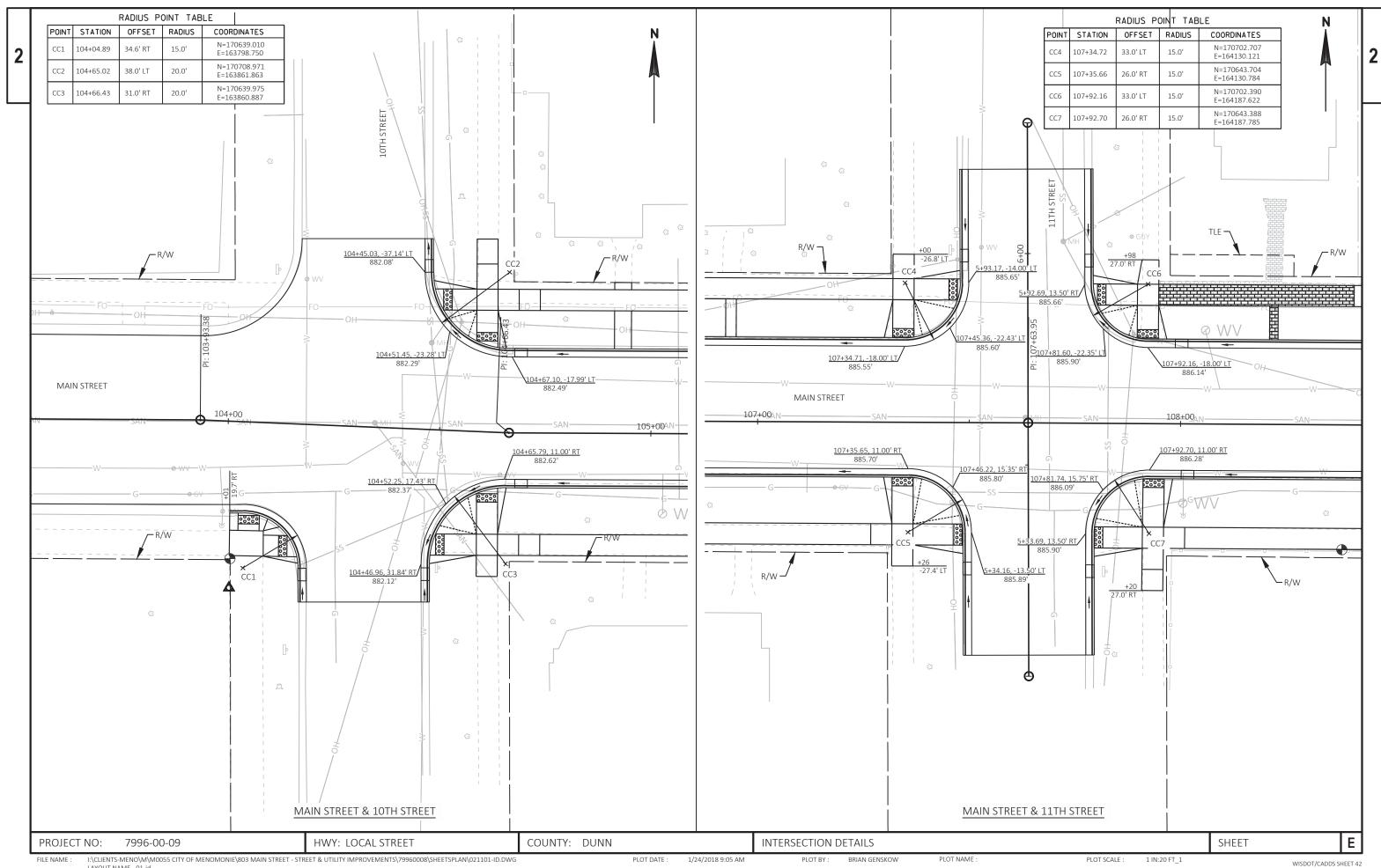
STATION, OFFSETS FOR ROUND STRUCTURES ARE TO CENTER OF STRUCTURE

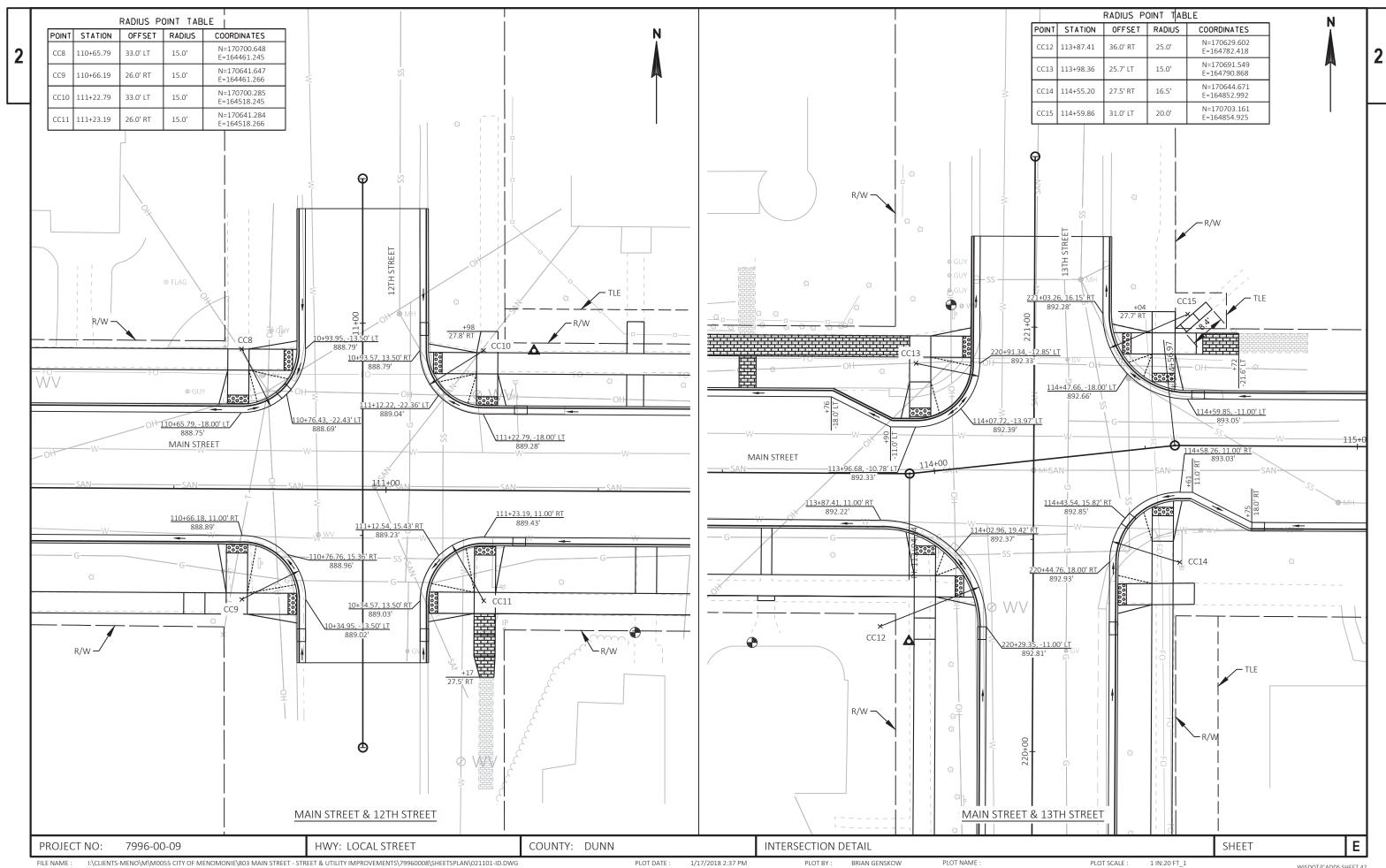


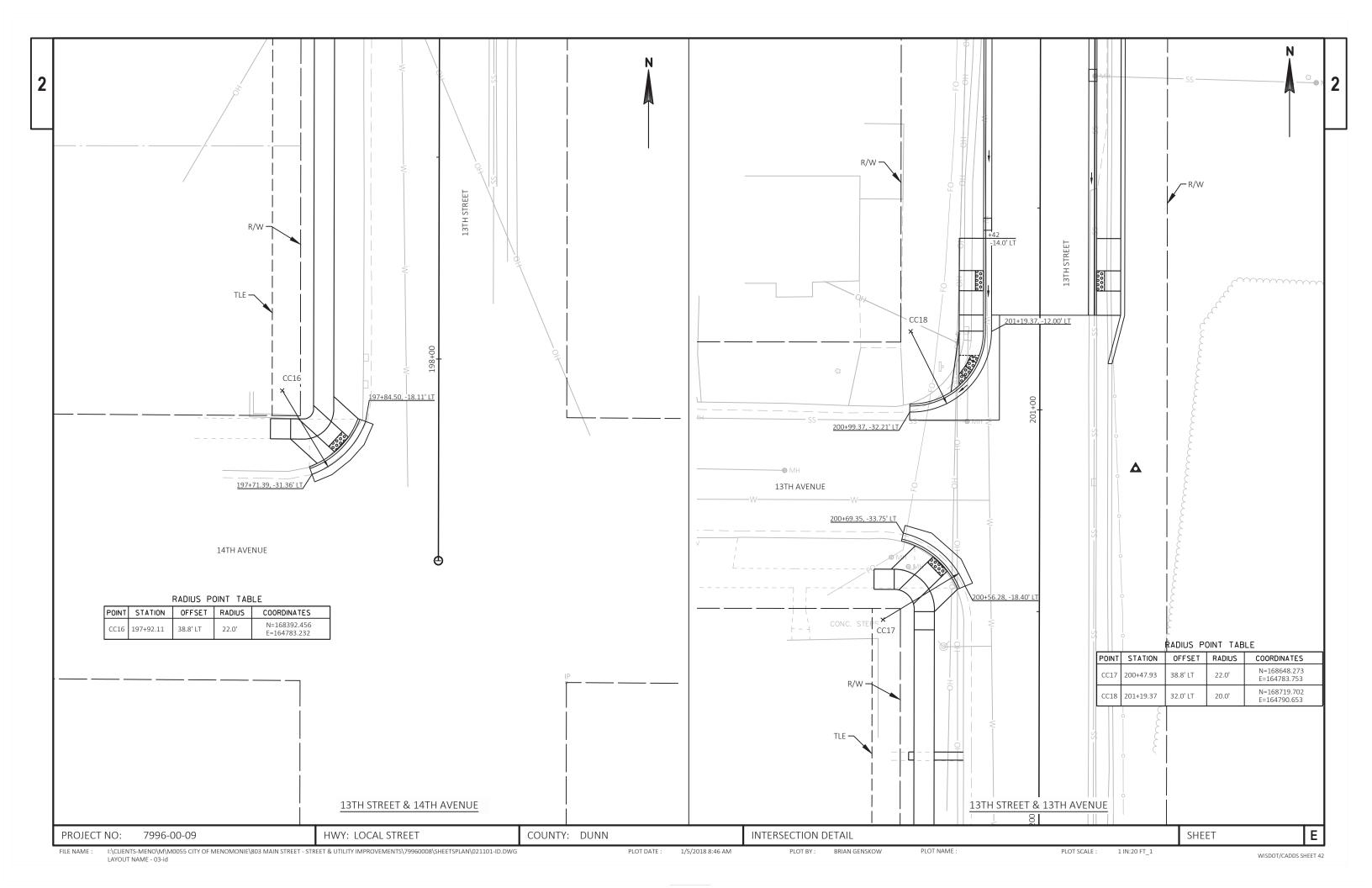
DETAIL FOR COMPUTING ROUND STRUCTURE ELEVATIONS

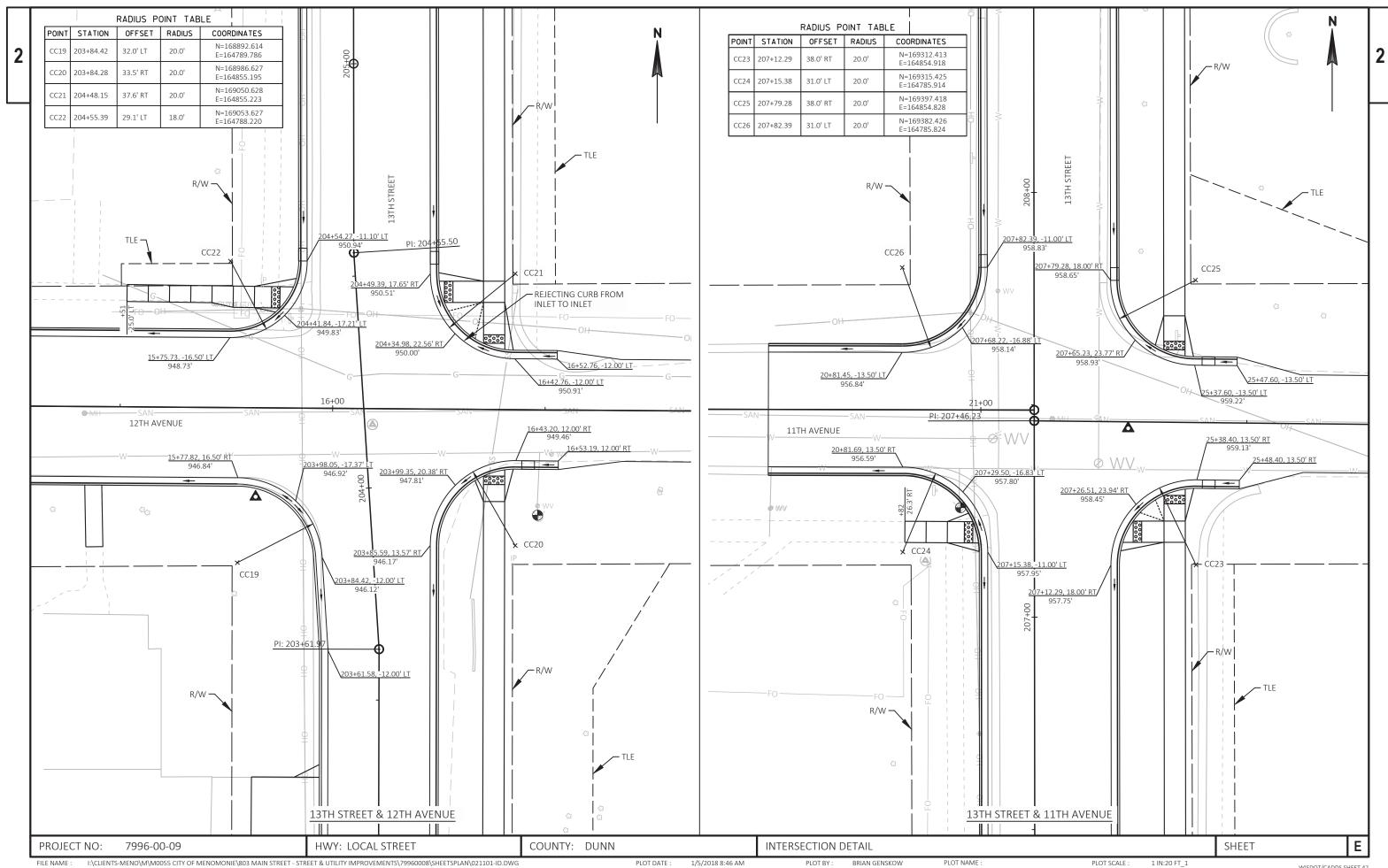
PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN CONSTRUCTION DETAILS SHEET

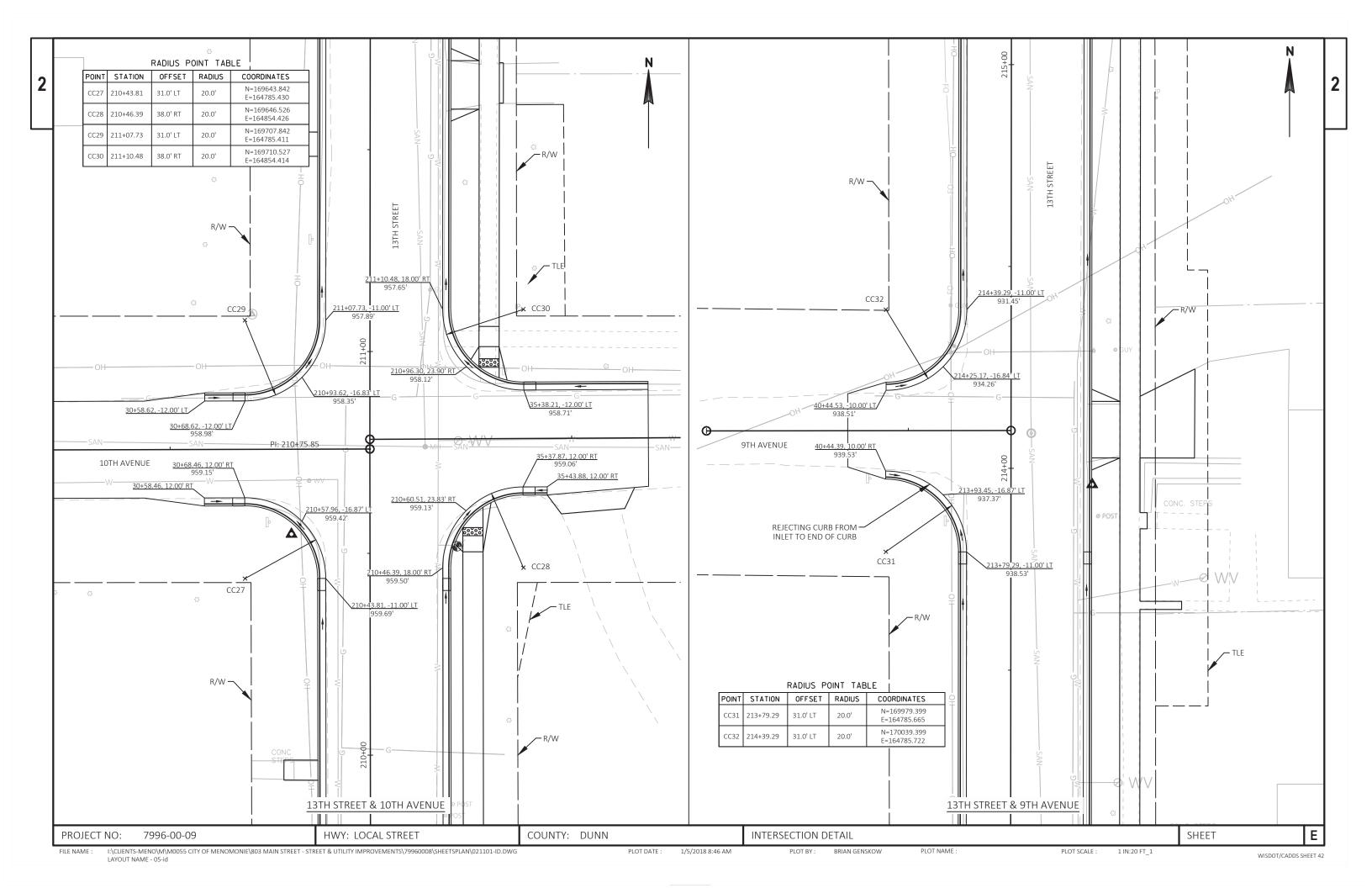
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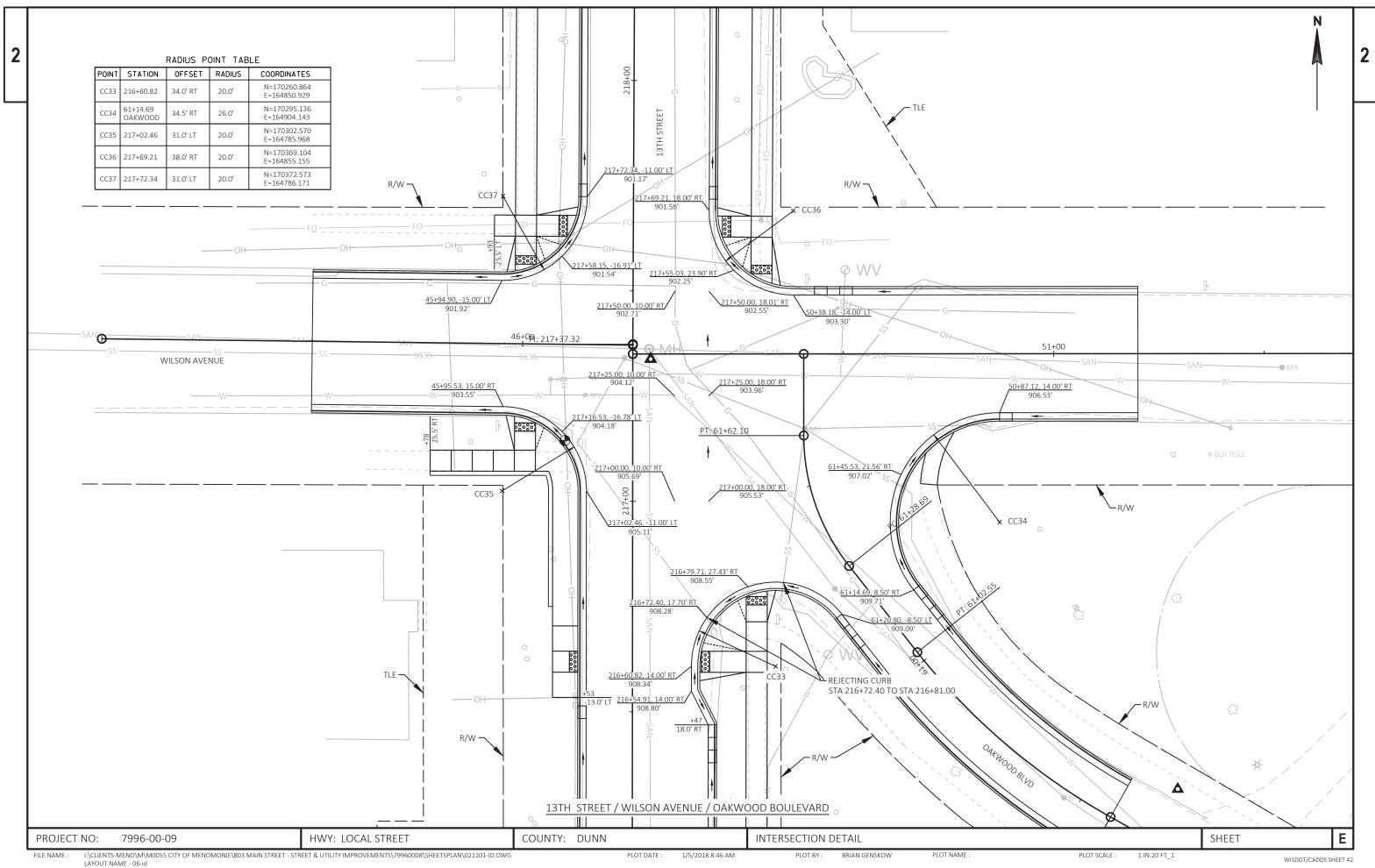


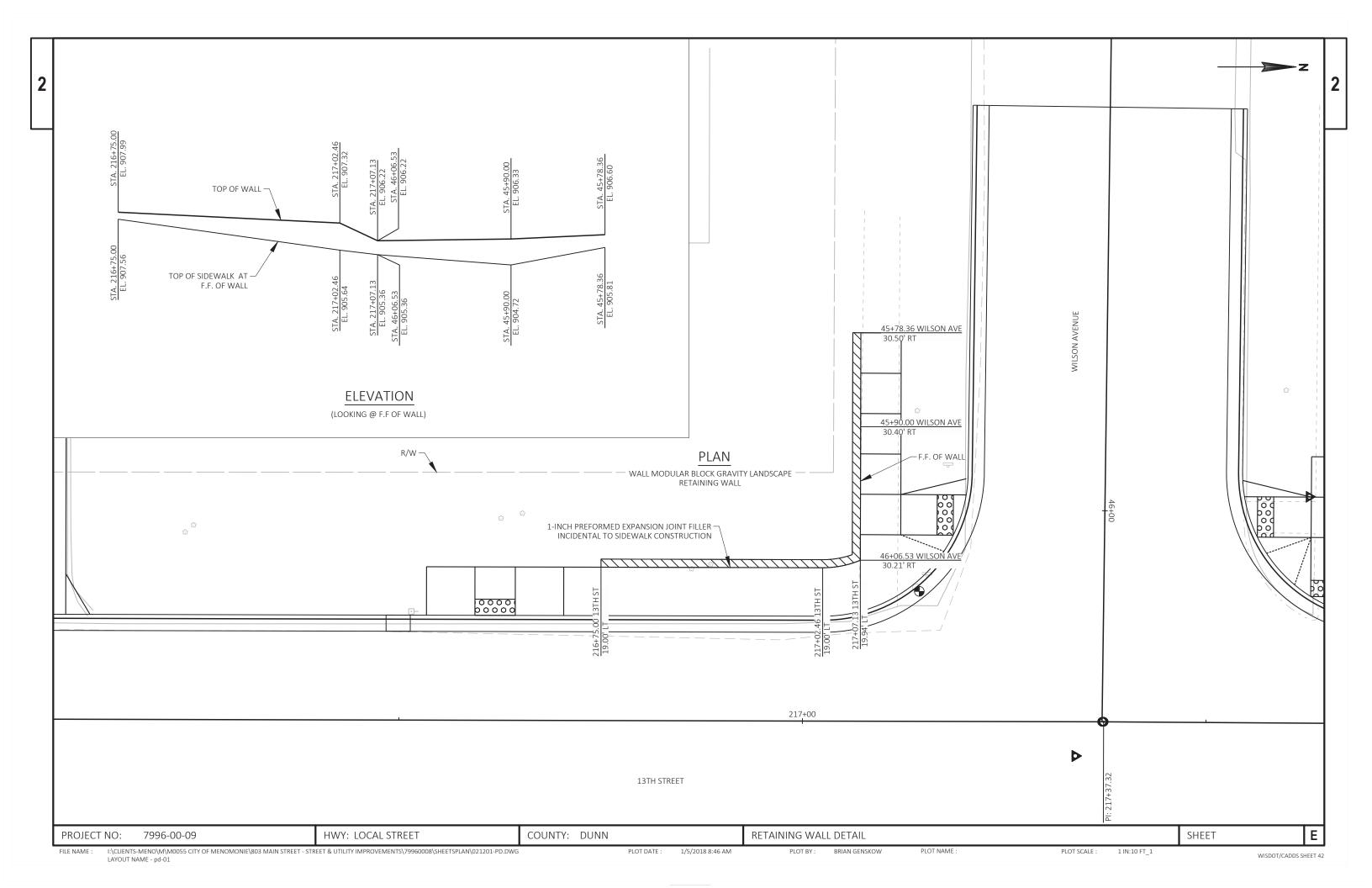


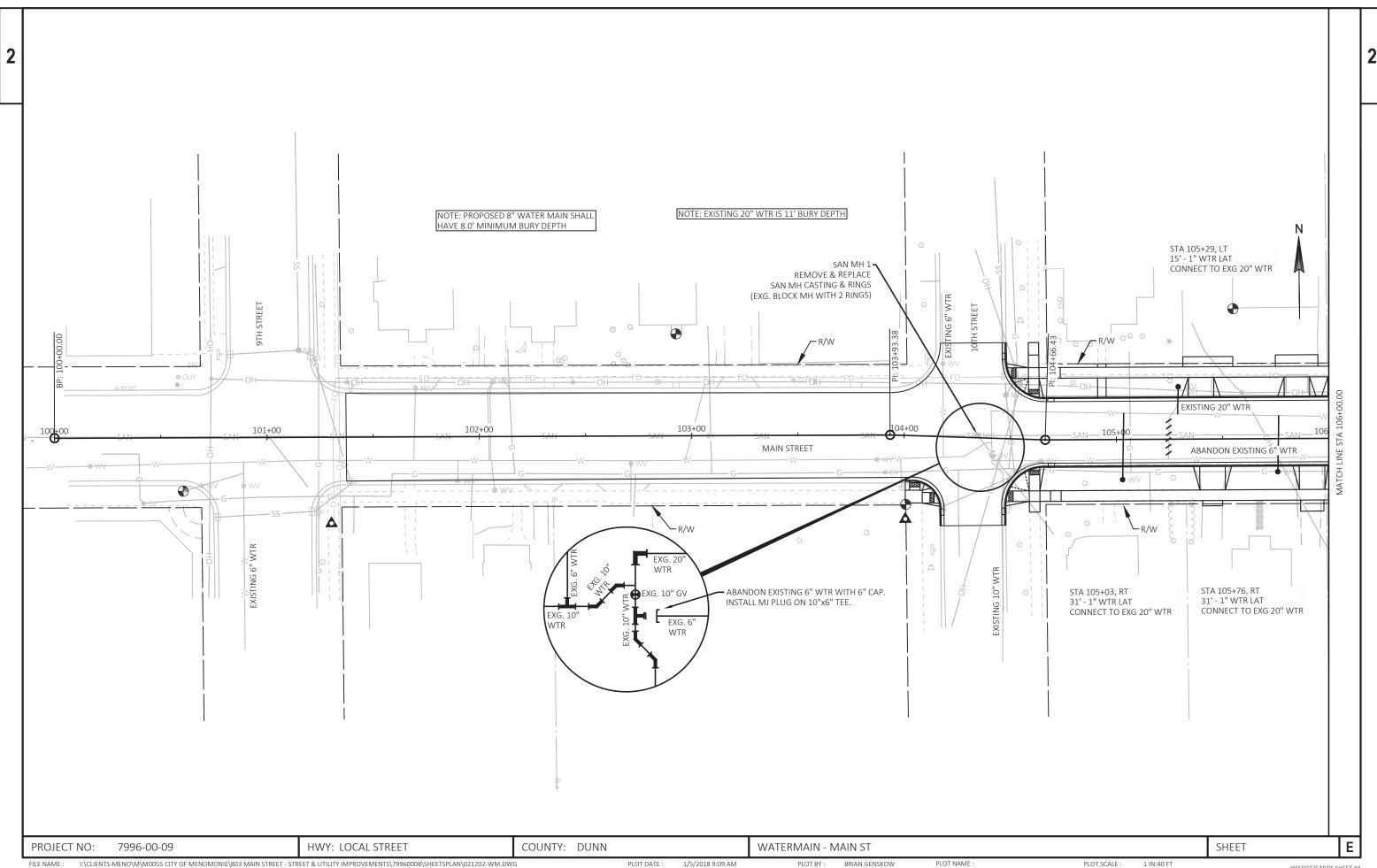


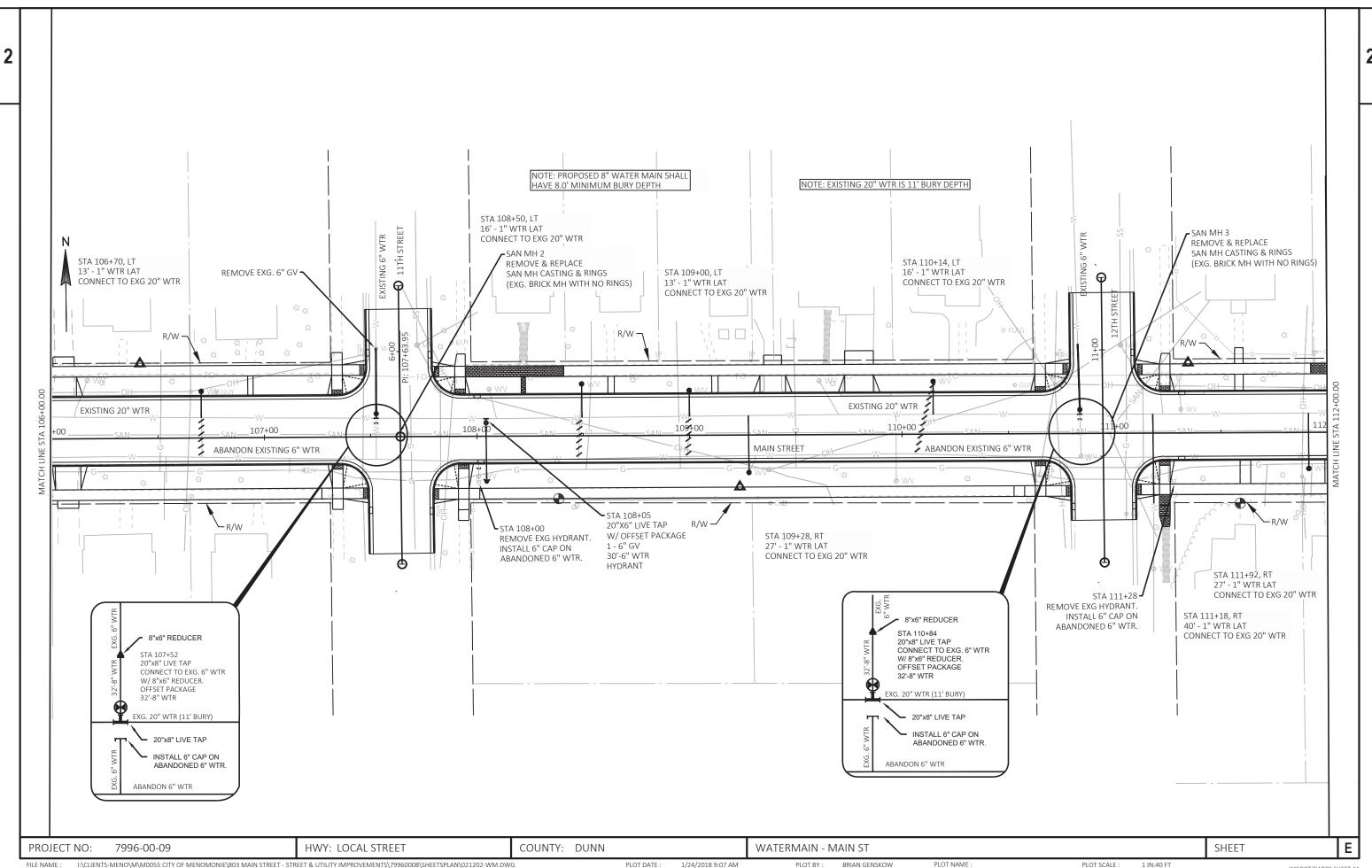


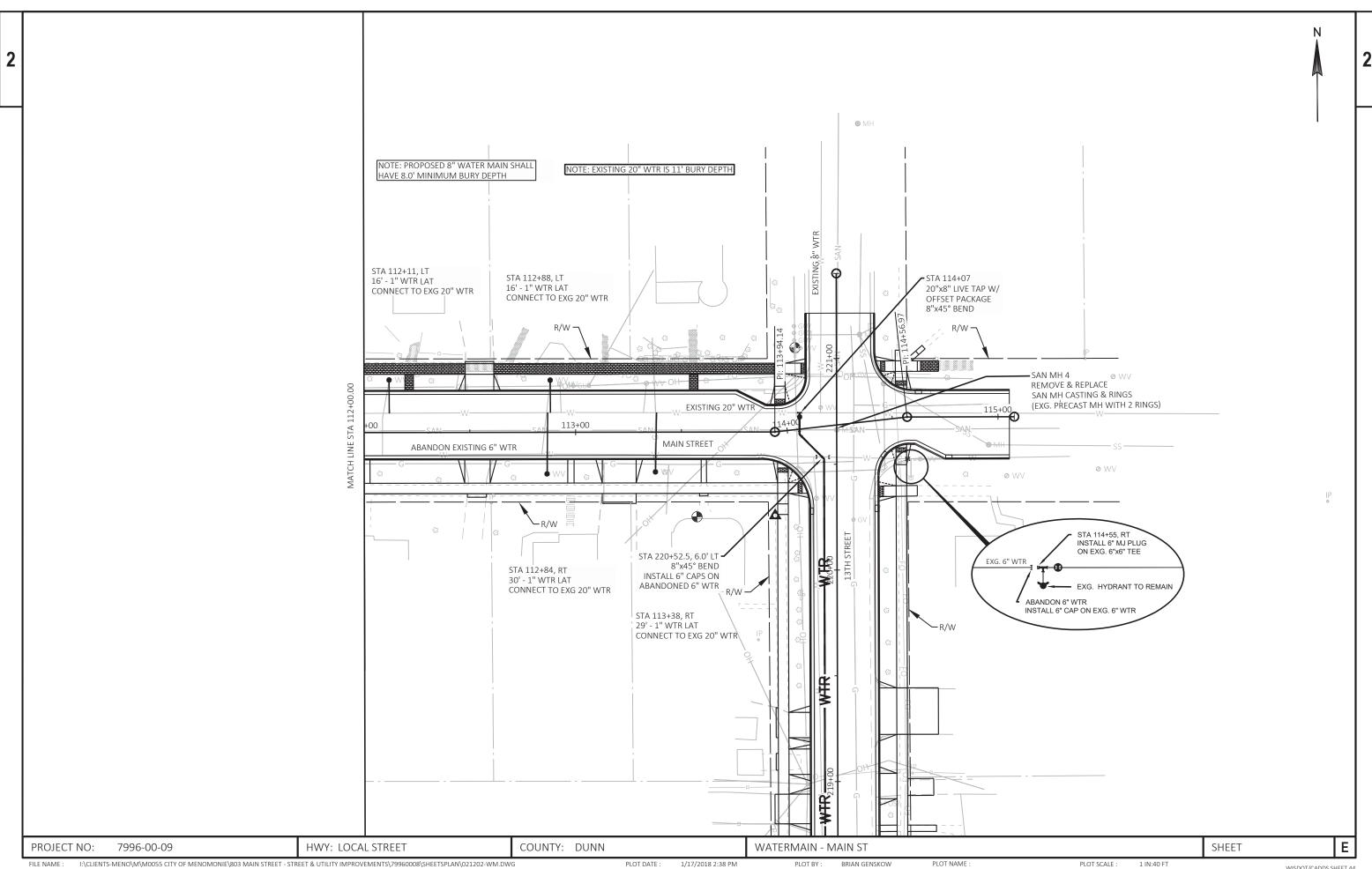


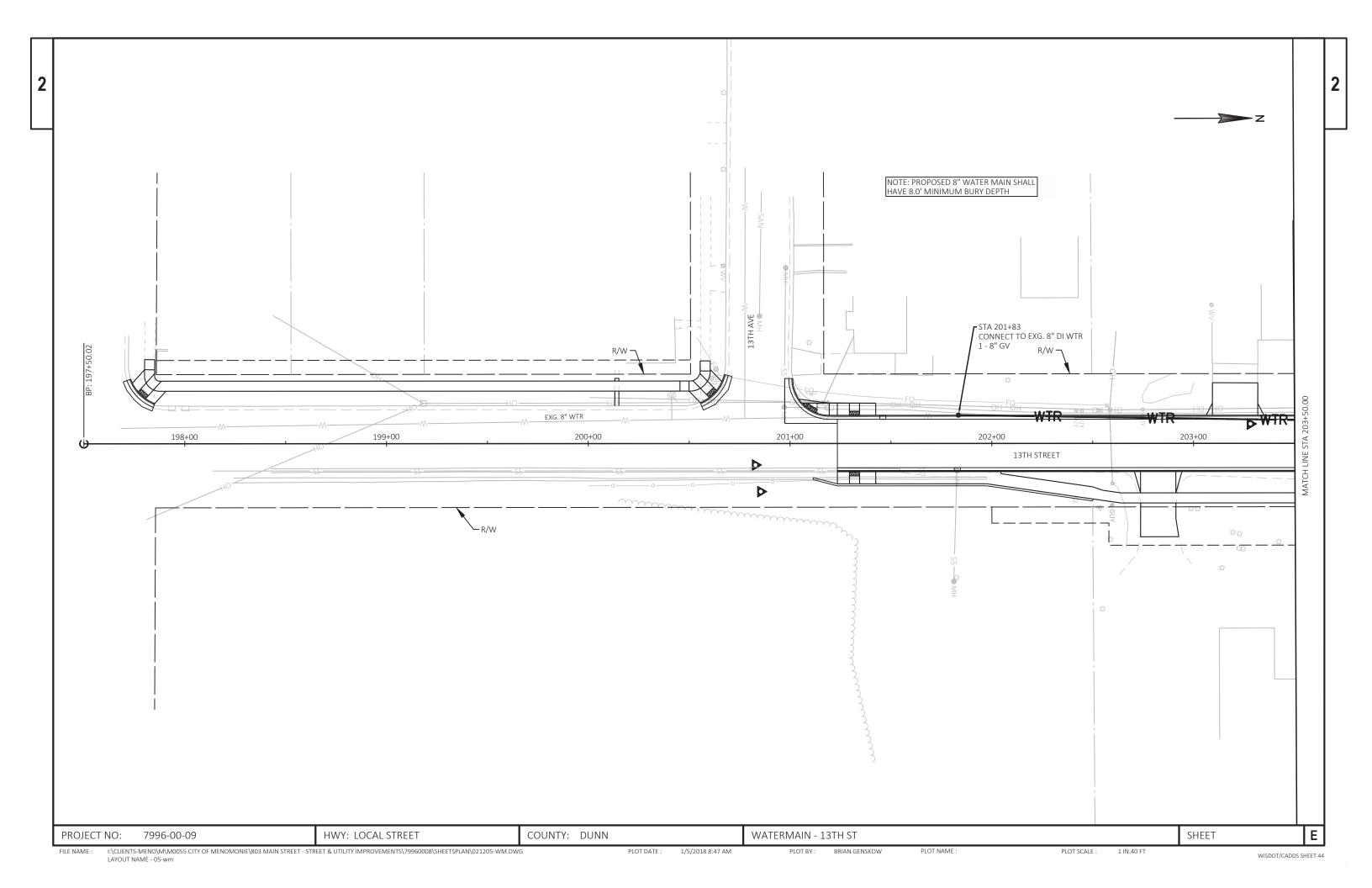


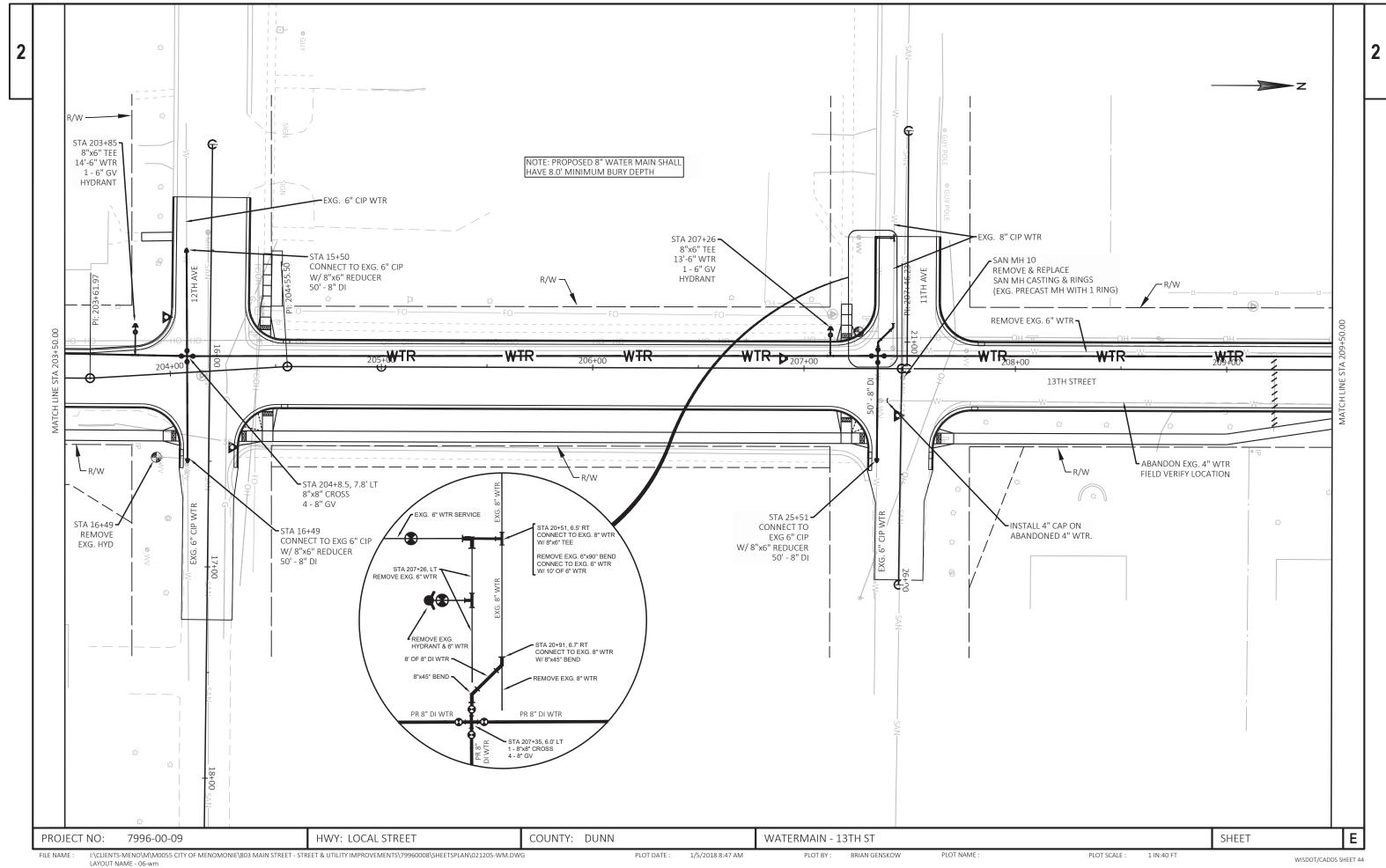


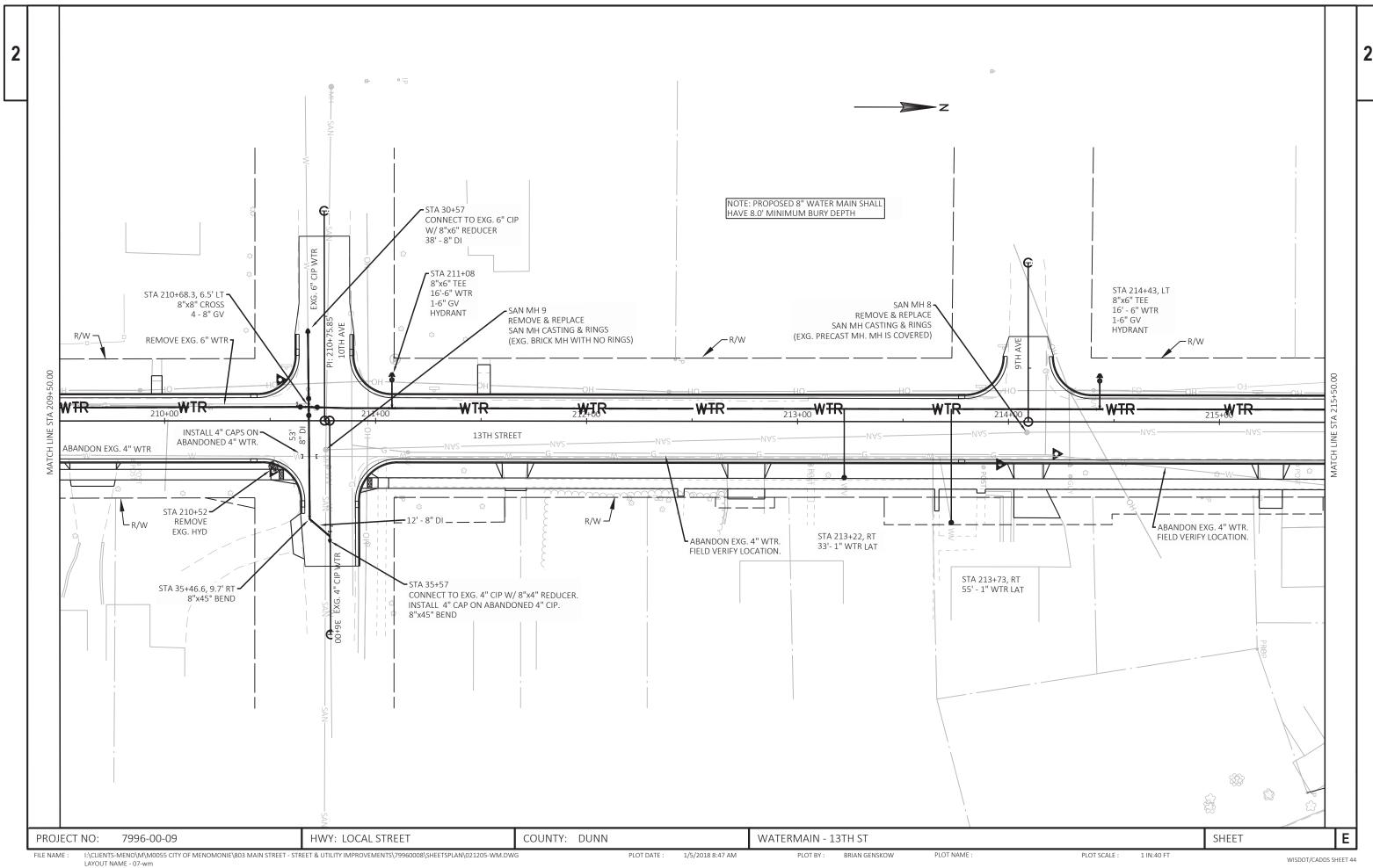


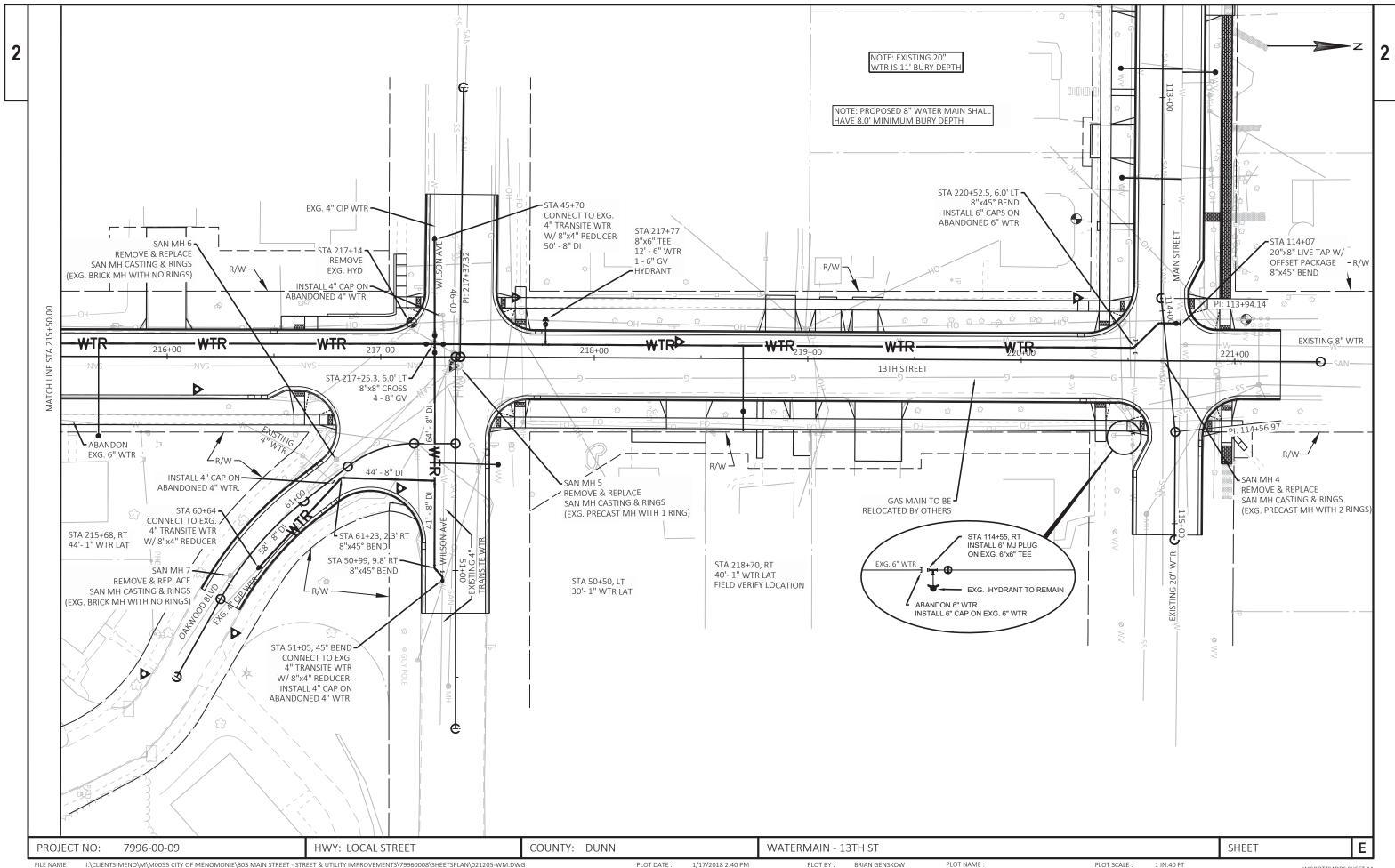


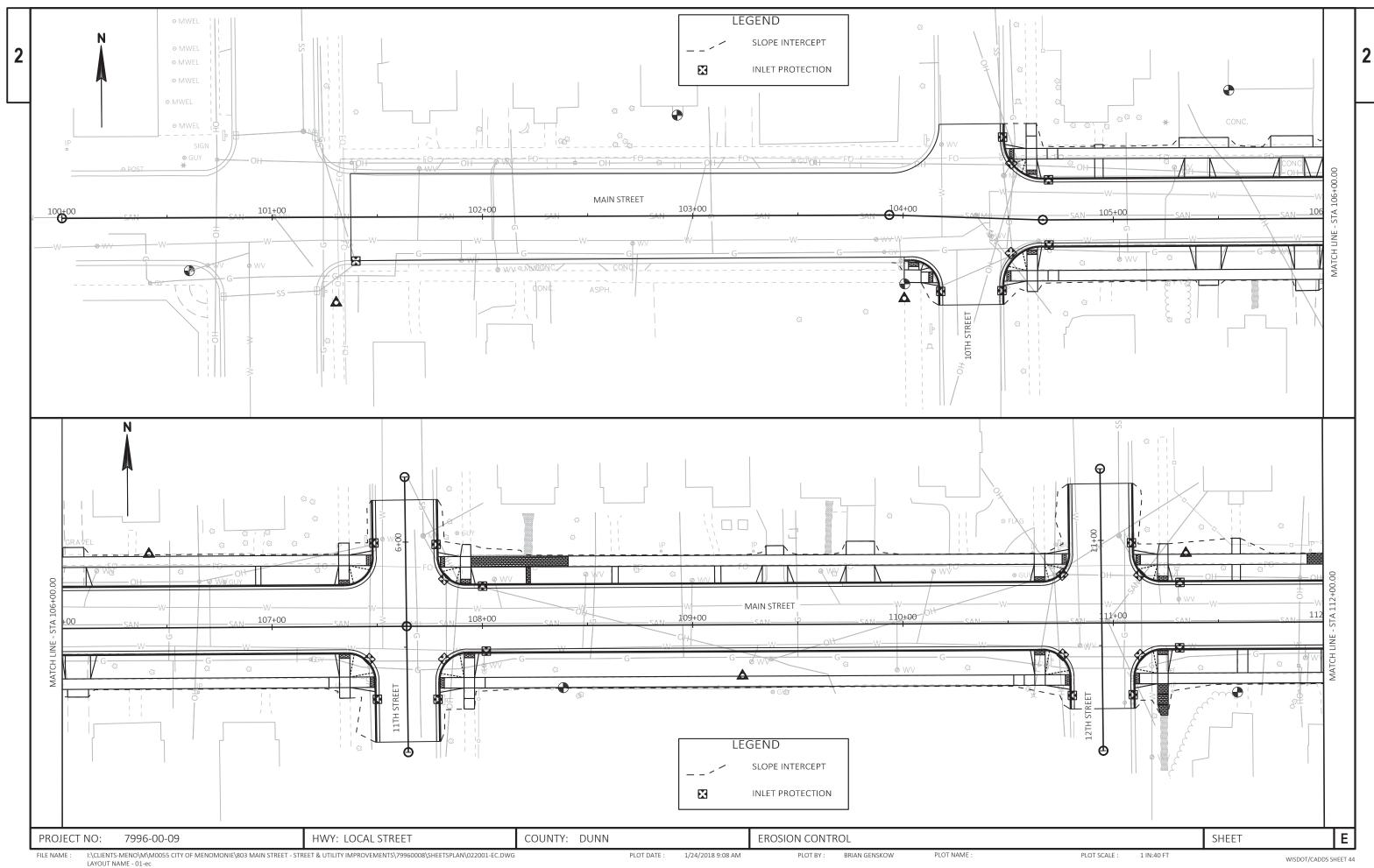


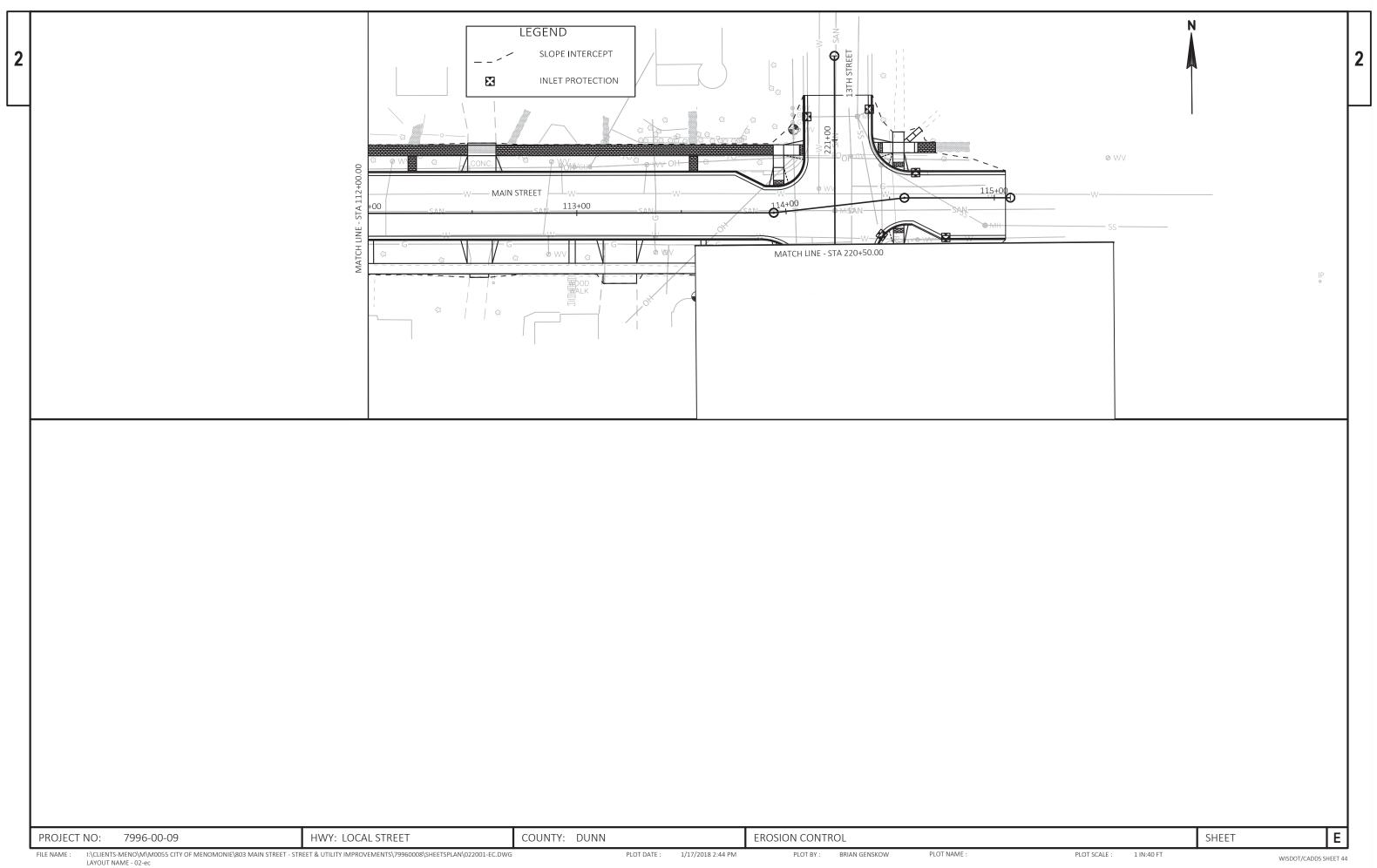


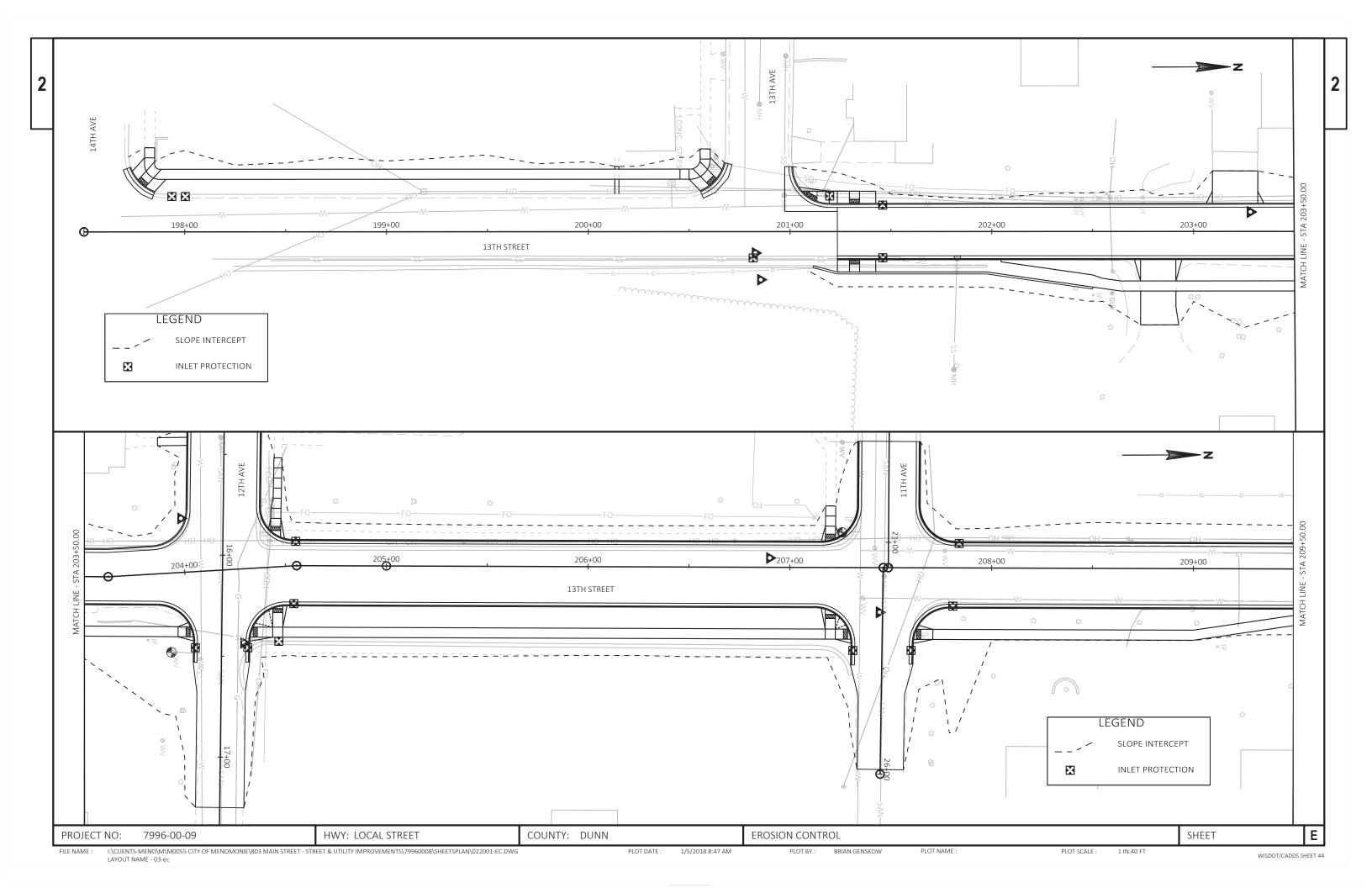


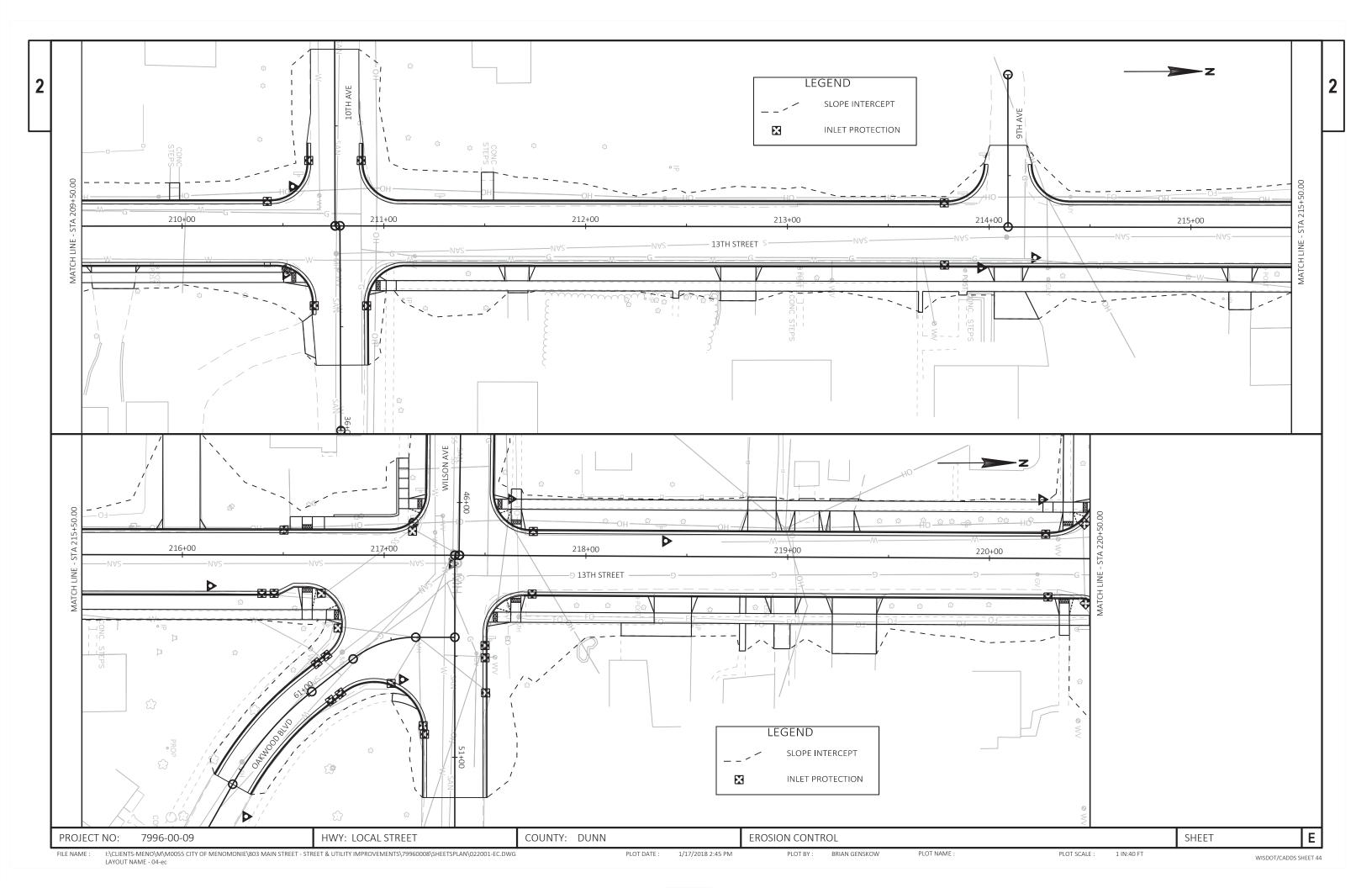


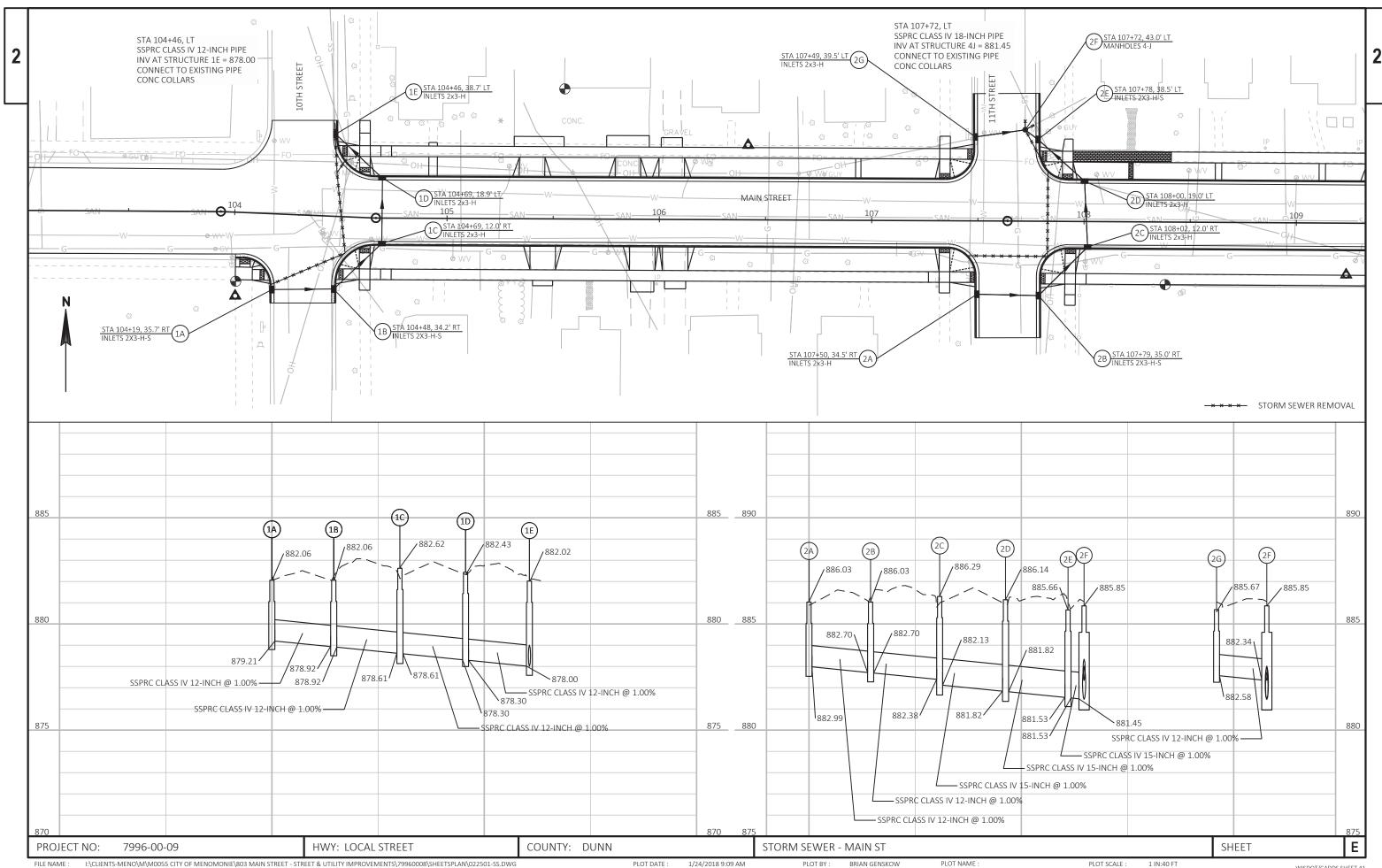


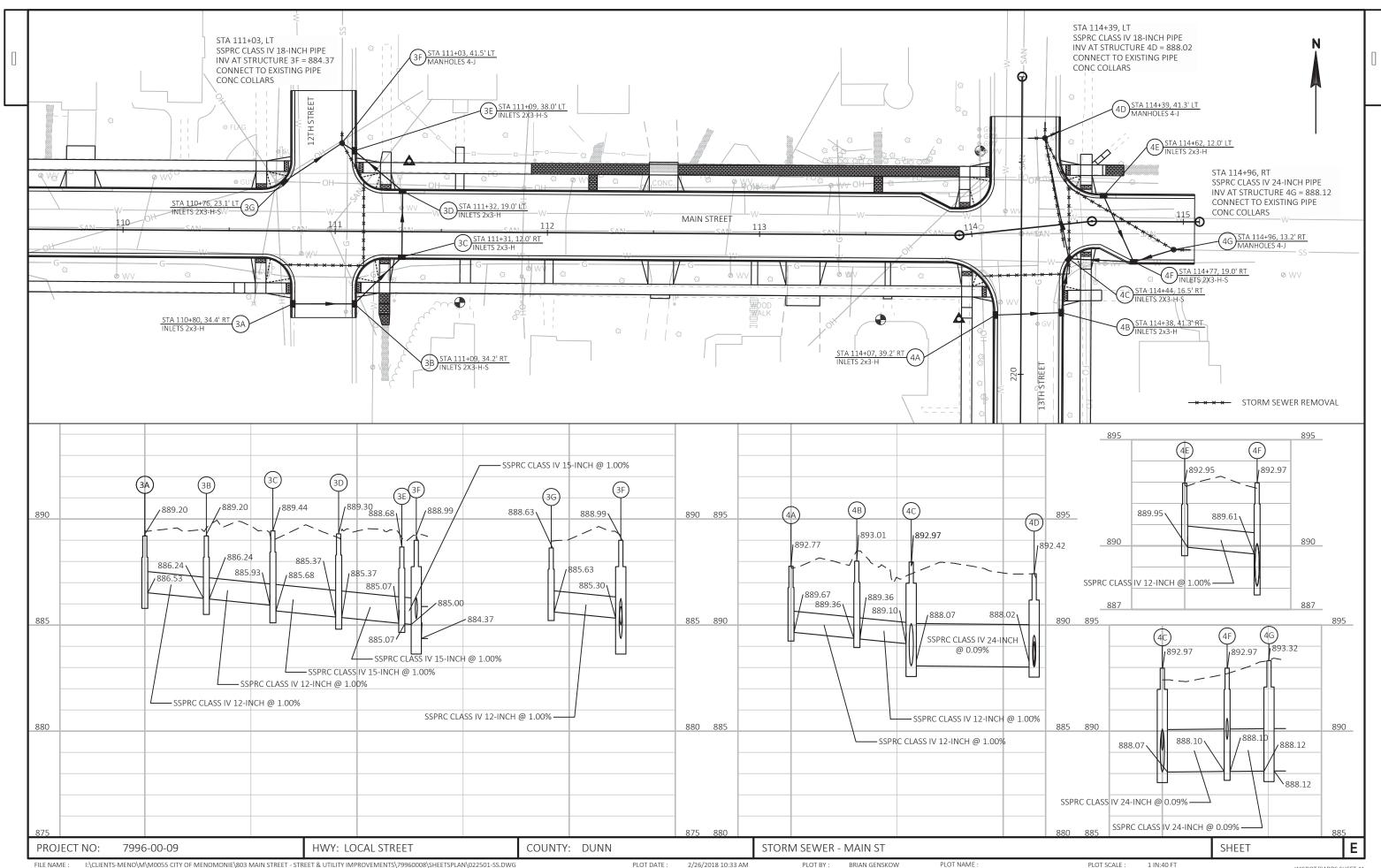


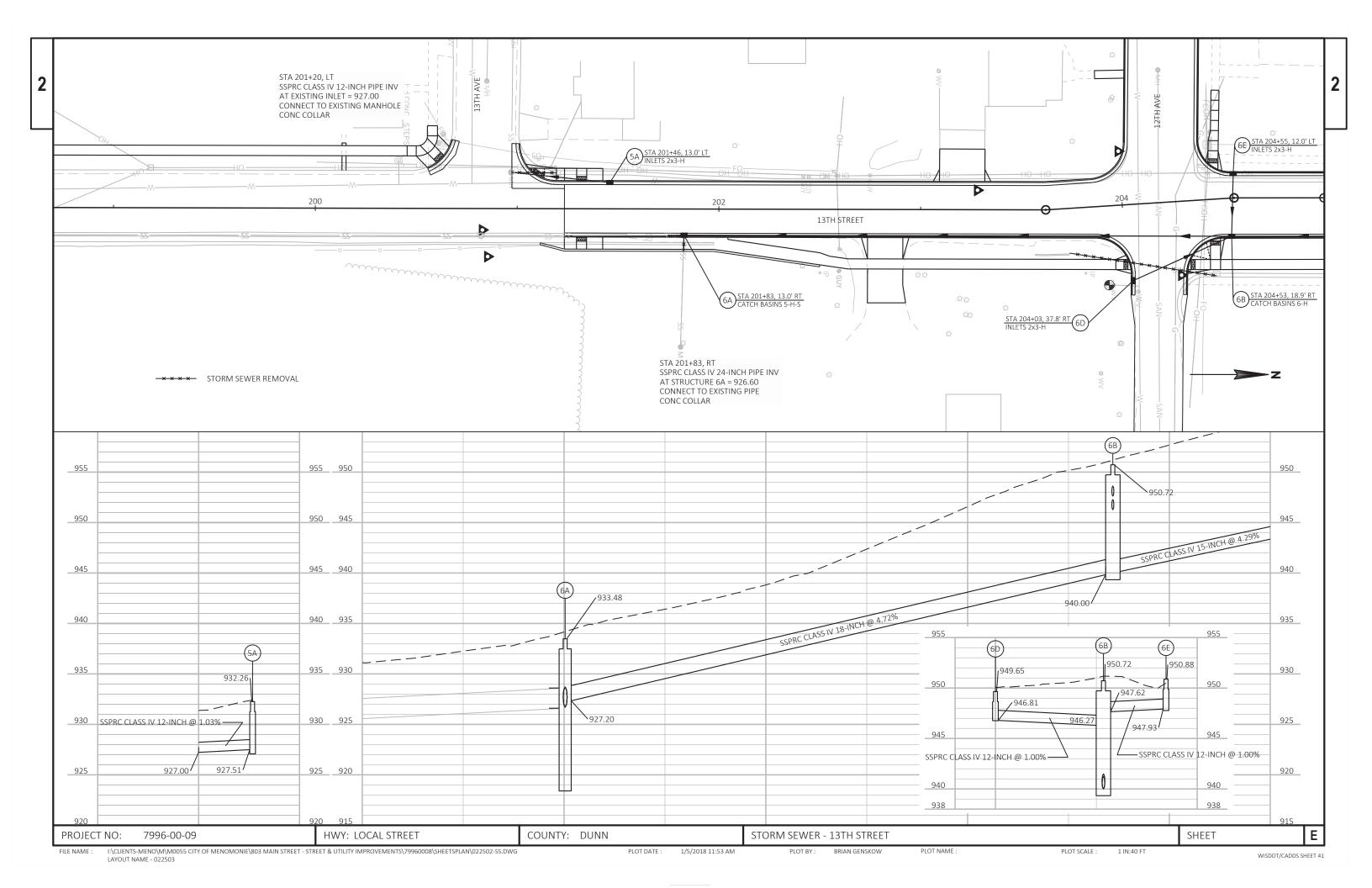


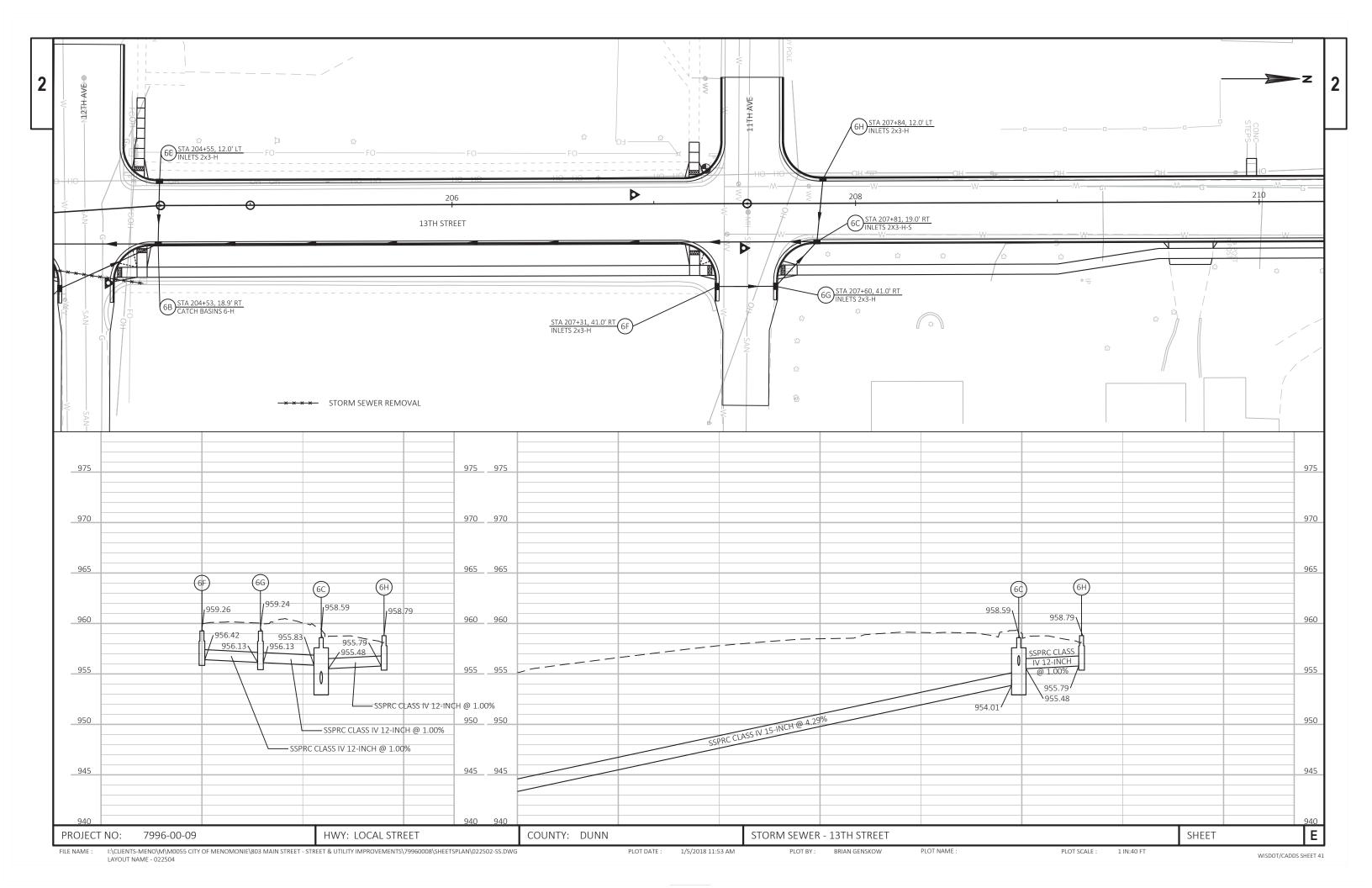


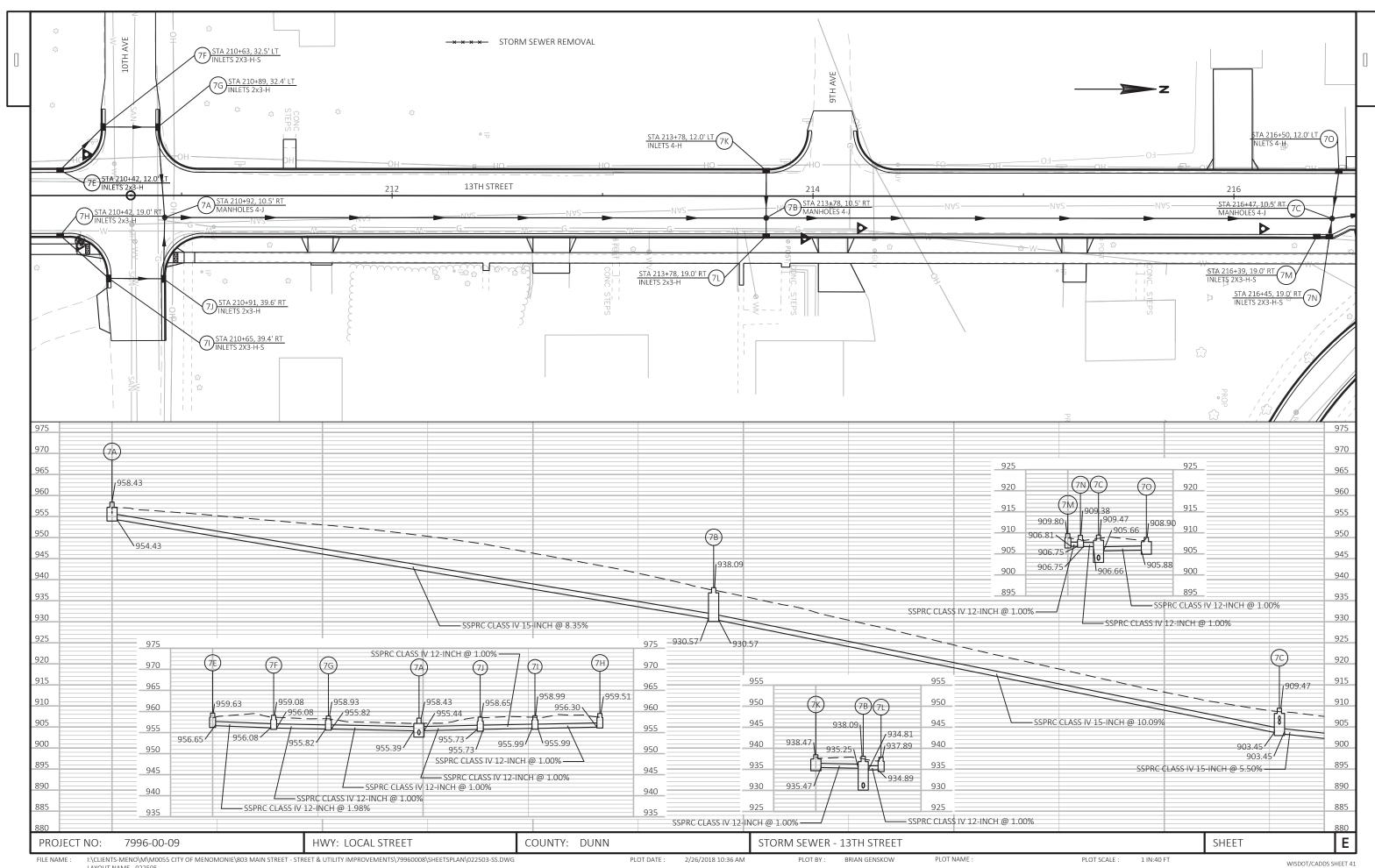


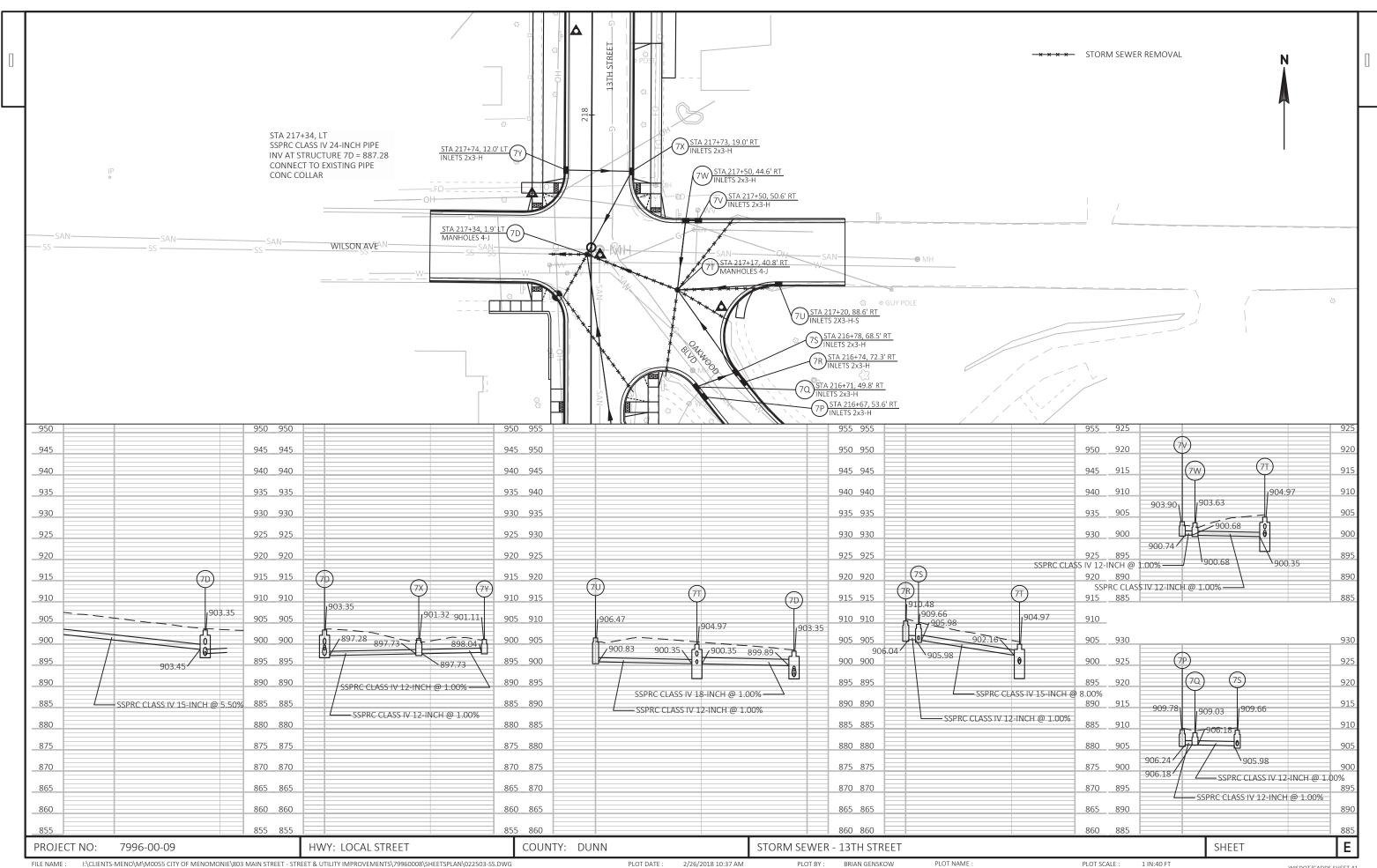


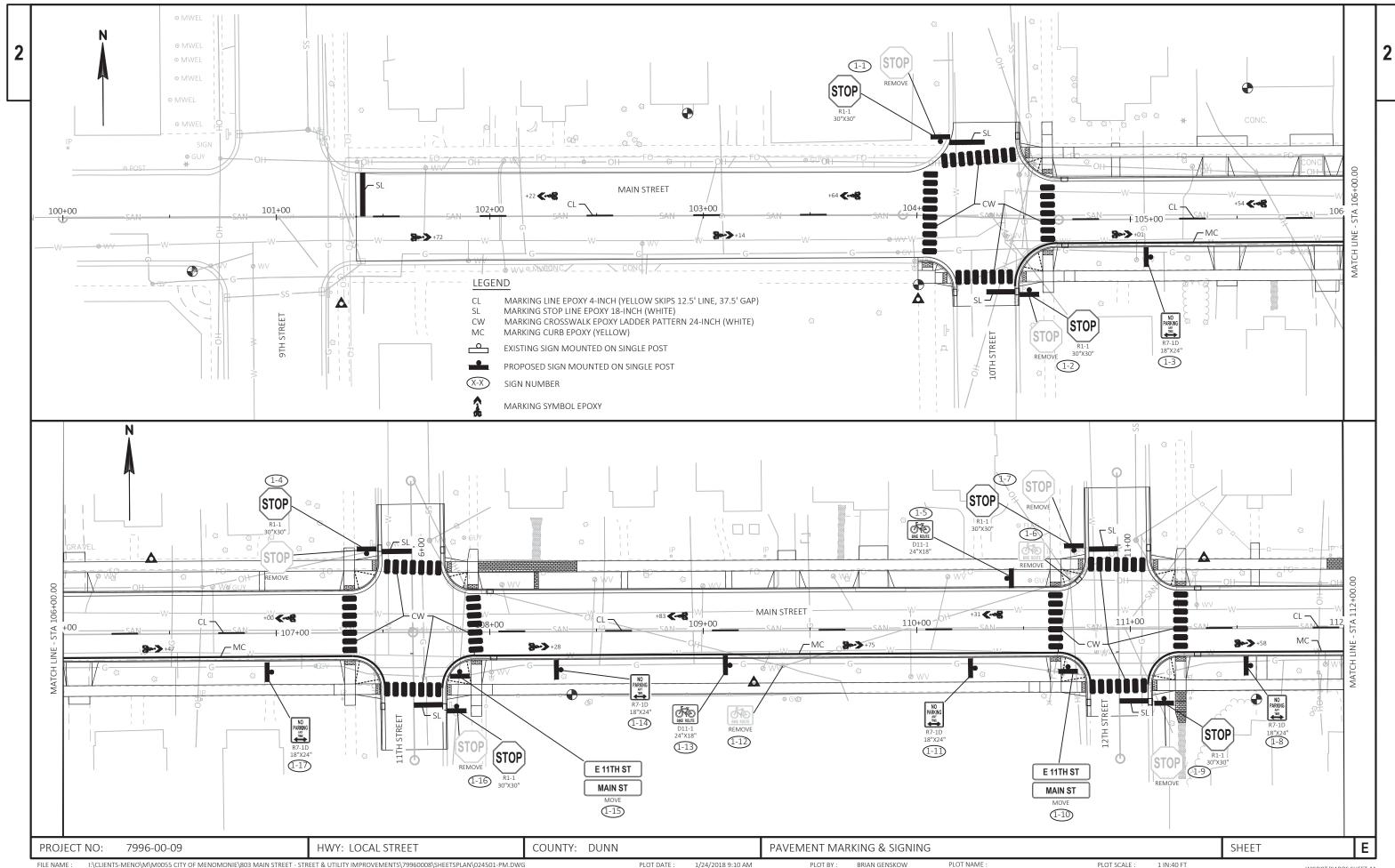


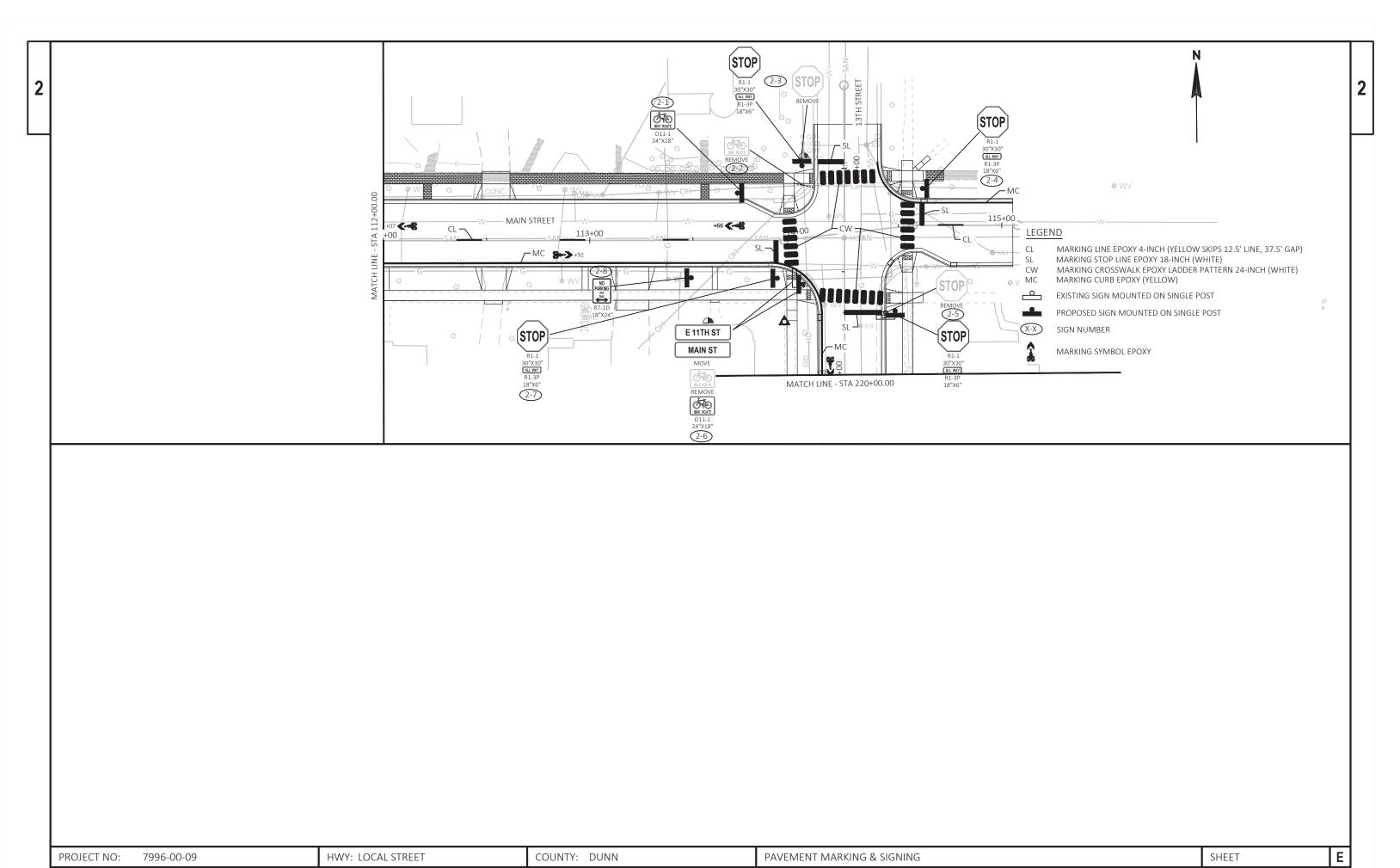


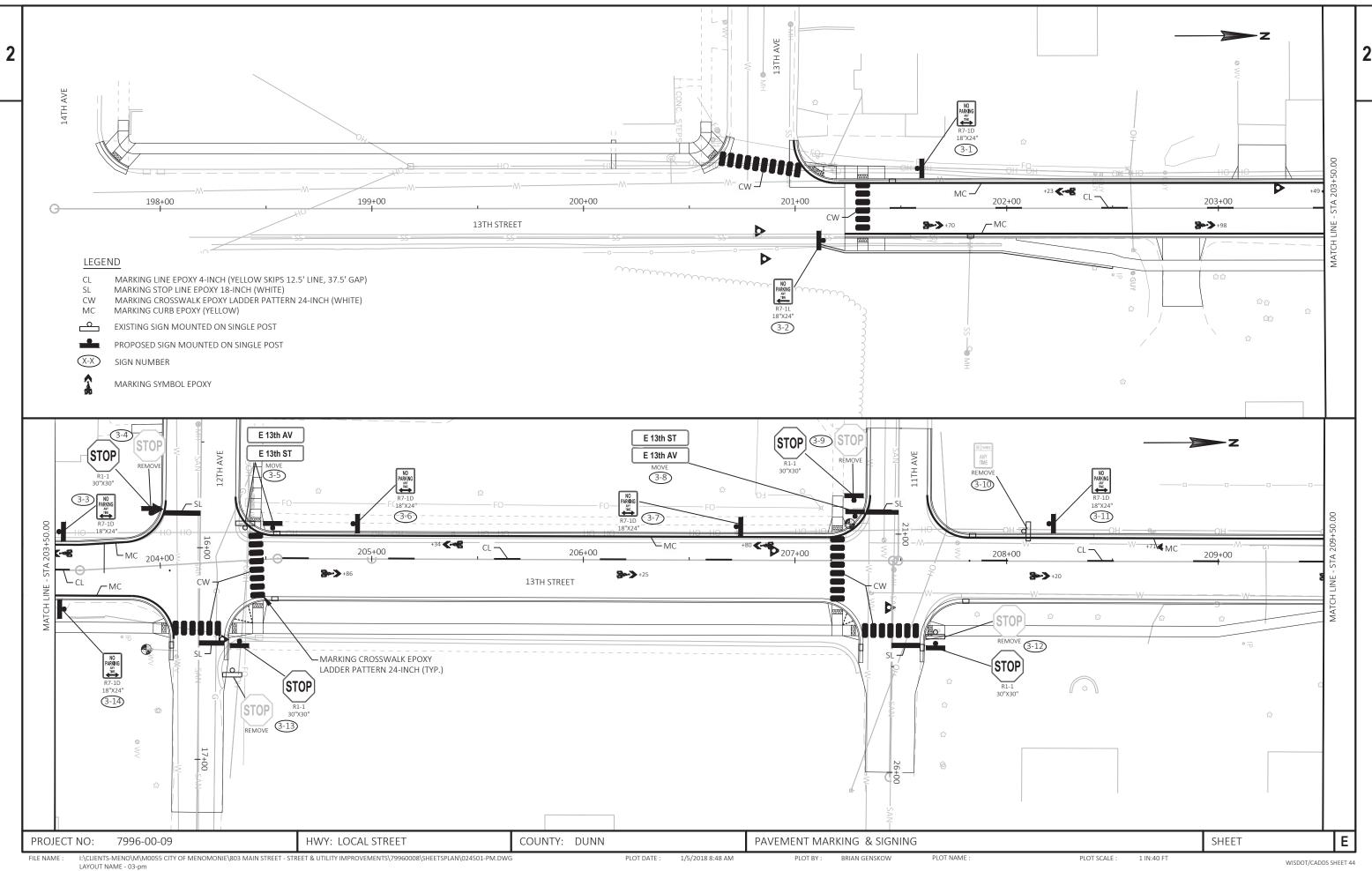


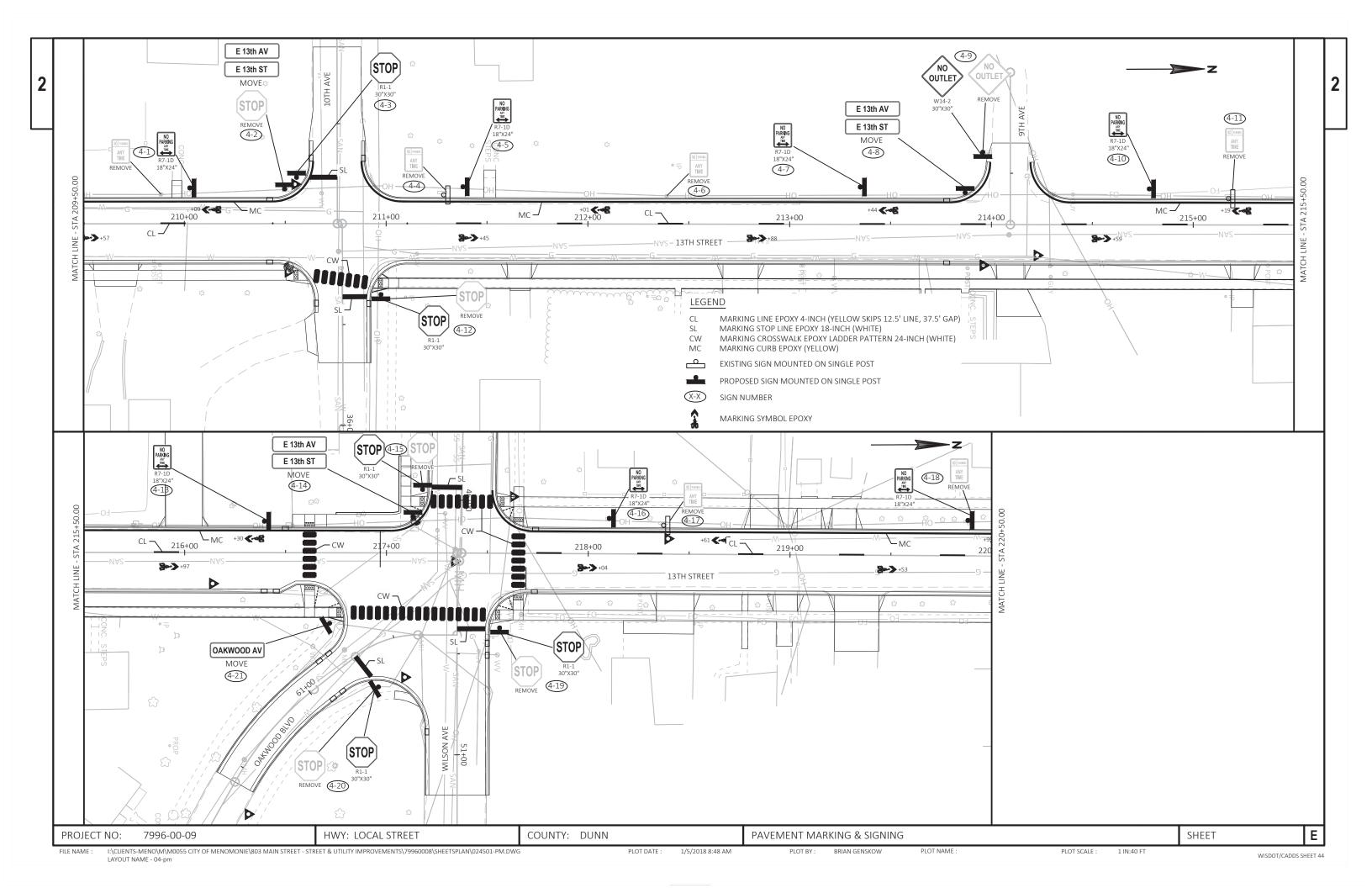












					7996-00-09
Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	252.000	252.000
0004	201.0220	Grubbing	ID	252.000	252.000
0006	204.0100	Removing Pavement	SY	1,283.000	1,283.000
8000	204.0110	Removing Asphaltic Surface	SY	14,701.000	14,701.000
0010	204.0150	Removing Curb & Gutter	LF	6,433.000	6,433.000
0012	204.0155	Removing Concrete Sidewalk	SY	1,943.000	1,943.000
0014	204.0210	Removing Manholes	EACH	9.000	9.000
0016	204.0220	Removing Inlets	EACH	18.000	18.000
0018	204.0245	Removing Storm Sewer (size) 01. 8-Inch	LF	8.000	8.000
0020	204.0245	Removing Storm Sewer (size) 02. 10-Inch	LF	43.000	43.000
0022	204.0245	Removing Storm Sewer (size) 03. 12-Inch	LF	605.000	605.000
0024	204.0245	Removing Storm Sewer (size) 04. 15-Inch	LF	130.000	130.000
0026	204.0245	Removing Storm Sewer (size) 05. 18-Inch	LF	46.000	46.000
0028	204.0245	Removing Storm Sewer (size) 06. 24-Inch	LF	143.000	143.000
0030	205.0100	Excavation Common	CY	4,547.000	4,547.000
0032	213.0100	Finishing Roadway (project) 01. 7996-00-09	EACH	1.000	1.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	9,226.000	9,226.000
0036	416.0160	Concrete Driveway 6-Inch	SY	664.000	664.000
0038	455.0605	Tack Coat	GAL	708.000	708.000
0040	460.2000	Incentive Density HMA Pavement	DOL	2,090.000	2,090.000
0042	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,826.000	1,826.000
0044	460.5244	HMA Pavement 4 LT 58-34 S	TON	1,437.000	1,437.000
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	7.500	7.500
0048	520.8000	Concrete Collars for Pipe	EACH	12.000	12.000
0050	602.0405	Concrete Sidewalk 4-Inch	SF	18,434.000	18,434.000
0052	602.0415	Concrete Sidewalk 6-Inch	SF	6,237.000	6,237.000
0054	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	520.000	520.000
0056	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	14.000	14.000
0058	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-	LF	1,068.000	1,068.000
		Inch			
0060	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-	LF	1,154.000	1,154.000
		Inch			
0062	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-	LF	357.000	357.000
0064	609 0424	Inch Storm Sower Pine Beinfereed Congrete Class IV 24	1 =	140,000	140.000
0064	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	140.000	140.000
0066	611.0530	Manhole Covers Type J	EACH	10.000	10.000
0068	611.0624	Inlet Covers Type H	EACH	35.000	35.000
0070	611.0639	Inlet Covers Type H-S	EACH	16.000	16.000
0070	611.1005	Catch Basins 5-FT Diameter	EACH	1.000	1.000
0072		Catch Basins 6-FT Diameter			
0074	611.1006	Calch basins 6-FT Diameter	EACH	1.000	1.000

					7996-00-09
Line	Item	Item Description	Unit	Total	Qty
0076	611.2004	Manholes 4-FT Diameter	EACH	12.000	12.000
0078	611.3004	Inlets 4-FT Diameter	EACH	2.000	2.000
0080	611.3230	Inlets 2x3-FT	EACH	45.000	45.000
0082	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7996-00-09	EACH	1.000	1.000
0084	619.1000	Mobilization	EACH	1.000	1.000
0086	624.0100	Water	MGAL	163.000	163.000
0088	625.0100	Topsoil	SY	7,604.000	7,604.000
0090	627.0200	Mulching	SY	7,604.000	7,604.000
0092	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0094	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0096	628.7015	Inlet Protection Type C	EACH	74.000	74.000
0098	629.0210	Fertilizer Type B	CWT	4.900	4.900
0100	630.0140	Seeding Mixture No. 40	LB	139.300	139.300
0100	630.0200	Seeding Temporary	LB	206.500	206.500
0102	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	44.000	44.000
0104	637.2210	Signs Type II Reflective H	SF	177.700	177.700
0108	637.2210	Signs Type II Reflective F	SF	6.250	6.250
0110	638.2102	Moving Signs Type II	EACH	9.000	9.000
0110	638.2602	Removing Signs Type II	EACH	29.000	29.000
0112	638.3000	Removing Signs Type II  Removing Small Sign Supports	EACH	29.000	22.000
0114				9.000	
	638.4000	Moving Small Sign Supports	EACH		9.000
0118	642.5001	Field Office Type B	EACH	1.000	1.000
0120	643.0410	Traffic Control Barricades Type II	DAY	960.000	960.000
0122	643.0420	Traffic Control Barricades Type III	DAY	8,640.000	8,640.000
0124	643.0705	Traffic Control Warning Lights Type A	DAY	13,824.000	13,824.000
0126	643.0900	Traffic Control Signs	DAY	9,312.000	9,312.000
0128	643.5000	Traffic Control	EACH	1.000	1.000
0130	646.1020	Marking Line Epoxy 4-Inch	LF	642.000	642.000
0132	646.5220	Marking Symbol Epoxy	EACH	40.000	40.000
0134	646.6120	Marking Stop Line Epoxy 18-Inch	LF	285.000	285.000
0136	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	1,260.000	1,260.000
0138	646.8120	Marking Curb Epoxy	LF	3,191.000	3,191.000
0140	650.4500	Construction Staking Subgrade	LF	3,628.000	3,628.000
0142	650.5000	Construction Staking Base	LF	3,628.000	3,628.000
0144	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	6,161.000	6,161.000
0146	650.6500	Construction Staking Structure Layout (structure) 01. R 17-9	R- LS	1.000	1.000
0148	650.9000	Construction Staking Curb Ramps	EACH	53.000	53.000
0150	650.9910	Construction Staking Supplemental Control (project) 01		1.000	1.000

SPV.0165 Special 05. Insulation

0208

					7996-00-09
Line	Item	Item Description	Unit	Total	Qty
		7996-00-09			
0152	650.9920	Construction Staking Slope Stakes	LF	3,648.000	3,648.000
0154	690.0150	Sawing Asphalt	LF	713.000	713.000
0156	690.0250	Sawing Concrete	LF	462.000	462.000
0158	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0160	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0162	SPV.0060	Special 01. Remove Hydrant	EACH	6.000	6.000
0164	SPV.0060	Special 02. Remove Gate Valve	EACH	1.000	1.000
0166	SPV.0060	Special 03. Corporation Stop, 1.0"	EACH	19.000	19.000
0168	SPV.0060	Special 04. Curb Stop and Box, 1.0"	EACH	18.000	18.000
0170	SPV.0060	Special 05. Hydrant	EACH	6.000	6.000
0172	SPV.0060	Special 06. Control Valve and Box, Gate, 6"	EACH	6.000	6.000
0174	SPV.0060	Special 07. Control Valve and Box, Gate, 8"	EACH	17.000	17.000
0176	SPV.0060	Special 08. Connect to existing Watermain (Cut In)	EACH	14.000	14.000
0178	SPV.0060	Special 09. Conect to Existing Watermain, Wet Tap, 20"x6"	EACH	1.000	1.000
0180	SPV.0060	Special 10. Conect to Existing Watermain, Wet Tap, 20"x8"	EACH	3.000	3.000
0182	SPV.0060	Special 11. Watermain Offset Package	EACH	4.000	4.000
0184	SPV.0060	Special 12. Remove & Replace Sanitary Manhole Casting/Rings	EACH	10.000	10.000
0186	SPV.0090	Special 01. Concrete Curb and Gutter 24-Inch Type D	LF	6,161.000	6,161.000
0188	SPV.0090	Special 02. Remove Existing Watermain	LF	401.000	401.000
0190	SPV.0090	Special 03. Watermain, Ductile Iron, 6"	LF	111.000	111.000
0192	SPV.0090	Special 04. Watermain, Ductile Iron, 8"	LF	2,500.000	2,500.000
0194	SPV.0090	Special 05. Water Service Lateral, Copper, 1.0"	LF	522.000	522.000
0196	SPV.0105	Special 01. Abandon Existing Watermain	LS	1.000	1.000
0198	SPV.0105	Special 02. Maintain Water Service	LS	1.000	1.000
0200	SPV.0165	Special 01. Wall Modular Block Mechanically Stabilized Earth R-17-9	SF	222.000	222.000
0202	SPV.0165	Special 02. Wall Modular Block Gravity Landscape STA 216+75	SF	165.000	165.000
0204	SPV.0165	Special 03. Salvage and Reset Wall Modular Block Mechanically Stabilized Earth R-17-9	SF	523.000	523.000
0206	SPV.0165	Special 04. Salvage and Reinstall Brick Pavers	SF	1,361.000	1,361.000
0000	001/0105	0 11051 11	0.5	1 0 1 1 0 0 0	4 0 4 4 0 0 0

1,344.000

1,344.000

207		
4	DRWY	
1	DRWY	

STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID
MAIN STREET			
105+23	LT	6	6
113+40	RT	18	18
13TH STREET			
202+42	RT	12	12
211+21	RT	24	24
211+42	RT	4	4
211+51	RT	24	24
213+15	RT	14	14
216+86	LT	18	18
216+89	LT	16	16
218+62	RT	18	18
218+84	RT	14	14
219+52	RT	12	12
219+66	RT	8	8
219+81	RT	10	10
220+00	RT	18	18
12TH AVE			
16+77	RT	24	24
<b>WILSON AVE WEST</b>			

**CLEARING & GRUBBING** 

# **REMOVING PAVEMENT**

12

252

12

252

RT

45+88

ITEM TOTALS

7996-00-09

PROJECT NO:

STATION - STATION	LOCATION	204.0100 SY	REMARKS
MAIN STREET			
104+46 - 107+60		773	6" CONC
105+39	LT	18	DRWY
105+45	RT	20	DRWY
105+85	LT	21	DRWY
109+40	LT	12	DRWY
109+80	LT	22	DRWY
112+53	LT	18	DRWY
112+54	RT	14	DRWY
13TH STREET			
203+20	LT	37	DRWY
211+66	RT	13	DRWY
212+75	RT	29	DRWY
214+08	RT	37	DRWY
215+24	RT	22	DRWY
216+00	LT	103	DRWY
218+44	RT	45	DRWY
218+87	LT	24	DRWY
219+10	LT	9	DRWY
219+32	RT	66	DRWY
ITEM TOTAL		1283	

# **REMOVING CURB & GUTTER**

STATION - STATION	LOCATION	204.0150 LF
MAIN STREET		
104+01 - 104+20	RT	33
104+47 - 107+49		
	RT	330
104+47 - 107+48	LT	326
107+79 - 110+79	RT	322
107+79 - 110+79	LT	317
111+10 - 114+07	RT	322
111+10 - 114+13	LT 	338
114+36 - 115+05	RT	76
114+45 - 115+05	LT	92
11TH STREET		
5+05 - 5+31	RT/LT	51
5+94 - 6+20	RT/LT	52
12TH STREET		
10+20 - 10+32	RT/LT	24
10+94 - 11+27	RT/LT	66
10 01 11 21		
<b>13TH STREET</b> 197+70 - 197+84	LT	10
		18
200+56 - 200+68	LT	20
201+01 - 204+03	LT	318
201+23 - 201+55	RT	32
204+26 - 207+30	RT	324
204+39 - 207+34	LT	324
207+63 - 210+62	RT	318
207+64 - 210+62	LT	317
210+92 - 213+94	LT	308
210+92 - 216+79	RT	616
214+36 - 217+21	LT	293
217+50 - 220+34	RT	290
217+54 - 220+34	LT	288
WILSON AVENUE WEST		
45+50 - 46+00	RT/LT	100
WILSON AVENUE EAST		
50+31 - 51+20	LT	90
50+66 - 51+20	RT	66
OAKWOOD BLVD		
60+42 - 61+29	RT/LT	179
00.42 - 01.28	INI/LI	173
10TH AVENUE EAST	1.7	20
35+31 - 35+69	LT	36
11TH AVENUE WEST	B=# =	-
20+50 - 20+84	RT/LT	39
12TH AVENUE		
	RT/LT	108
15+25 - 15+78	111721	

STATION - STATION	LOCATION	204.0110 SY	REMARKS
MAIN STREET			
101+37 - 115+05		5207	
106+03 - 106+13	RT	4	DRWY
112+48 - 112+61	LT	1	DRWY
112+49 - 112+58	RT	2	DRWY
11TH STREET			
5+05 - 5+48		139	
5+78 - 6+20		137	
0 70 0 20		107	
12TH STREET			
10+20 - 10+50		96	
10+79 - 11+27		157	
13TH STREET			
197+70 - 197+84	LT	5	CURB RAMP
200+56 - 200+71	LT	7	CURB RAMP
200+97 - 220+34		6633	
202+71 - 202+92	RT	68	DRWY
209+55 - 209+78	RT	31	DRWY
WILSON AVENUE WEST			
45+50 - 46+14		225	
40100 - 40114		225	
WILSON AVENUE EAST			
50+18 - 51+20		312	
OAKWOOD BLVD			
60+42 - 61+68		380	
OTH AVENUE			
<b>9TH AVENUE</b> 40+35 - 40+63		62	
40+35 - 40+63		63	
10TH AVENUE WEST			
30+12 - 30+88		230	
10TH AVENUE EAST			
35+16 - 35+69		161	
35+47 - 35+63		9	DRWY
11TH AVENUE WEST			
20+50 - 21+02		167	
ZUTUU - Z ITUZ		107	
11TH AVENUE EAST			
25+39 - 26+00		181	
12TH AVENUE			
15+25 - 15+97		272	
16+42 - 17+25		214	
ITEM TOTAL		14701	

REMOVING ASPHALTIC SURFACE

HWY: LOCAL STREET

COUNTY: DUNN

MISCELLANEOUS QUANTITIES

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NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

SHEET

# REMOVING CONCRETE SIDEWALK

		204.0155	
STATION - STATION	LOCATION	SY	REMARKS
MAIN STREET			
104+01 - 104+18	RT	14	
104+48 - 107+49	RT	182	
104+49 - 107+48	LT	192	
107+80 - 110+79	RT	175	
107+79 - 107+95	LT	15	
108+41 - 110+79	LT	139	
111+10 - 114+06	RT	196	
111+10 - 111+92	LT	59	
113+97 - 114+12	LT	17	
114+37 - 114+62	RT	16	
114+46 - 114+63	LT	23	
13TH STREET			
197+70 - 197+84	LT	16	CURB RAMP
200+13 - 200+15	LT	3	
200+56 - 200+66	LT	12	
204+30 - 207+25	RT	122	
204+38 - 207+27	LT	149	
209+94 - 209+99	LT	5	CARRIAGE WALK
210+93 - 216+79	RT	284	
211+49 - 211+54	LT	10	CARRIAGE WALK
217+51 - 220+35	RT	140	
217+55 - 220+35	LT	145	
12TH AVE			
15+42 - 15+46	RT	7	CARRIAGE WALK
<b>WILSON AVE WEST</b>			
45+78 - 46+12	RT	18	
OAKWOOD BLVD			
61+38 - 61+63	RT	4	
ITEM TOTAL		1943	
		.0.0	

### **REMOVING INLETS**

STATION	LOCATION	204.0220 EACH
MAIN STREET		
104+19	RT	1
104+50	LT	1
104+52	RT	1
107+45	RT	1
107+83	RT/LT	2
110+75	RT	1
111+13	RT/LT	2
13TH STREET		
201+20	LT	1
204+45	RT	1
216+69	RT	1
217+14	LT	1
220+46	LT	1
220+47	RT	1
WILSON AVE EAST		
50+64	RT	1
50+68	LT	1
50+84	RT	1
ITEM TOTAL		18

### **REMOVING MANHOLES**

STATION	LOCATION	204.0210 EACH
		_
MAIN STREET		
104+47	LT	1
107+72	LT	1
111+03	LT	1
114+96	RT	1
13TH STREET		
201+83	RT	1
217+17	RT	1
217+34	LT	1
220+88	RT	1
221+11	RT	1
ITEM TOTAL		9

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET

SHEET

## REMOVING STORM SEWER

STATION - STATION	LOCATION	204.0245.01 8-INCH LF	204.0245.02 10-INCH LF	204.0245.03 12-INCH LF	204.0245.04 15-INCH LF	204.0245.05 18-INCH LF	204.0245.06 24-INCH LF	REMARKS
MAIN STREET								
104+19 - 104+52	RT			38				
104+45 - 104+47	LT			8				
104+47 - 104+52	RT/LT			38				
104+47 - 104+51	LT			24				
107+45 - 107+83	RT			37				
107+72	LT					8		
107+72 - 107+79	LT	8						
107+72 - 107+83	LT					22		
107+83	RT/LT			39				
110+75 - 111+13	RT			38				
111+03	LT					8		
111+03 - 111+13	LT				20			
111+13	RT/LT			39				
114+48 - 115+04	RT/LT						65	
<b>13TH STREET</b> 200+97 - 201+20	LT		_	22				
201+75 - 201+83	RT						8	
203+72 - 204+45	RT			73				
216+69 - 217+14	RT/LT			55				
216+76 - 217+17	RT			41				
217+14 - 217+34	LT			23				
217+17 - 217+34	RT				45			
217+34	LT						18	
220+46 - 220+47	RT/LT			40				
220+47 - 220+88	RT		-		40			
220+60 - 221+11	RT						52	
220+88 - 221+11	RT				25			
221+11	RT			8				
221+11 - 221+15	RT			12				
221+11 - 221+19	RT					8		
WILSON AVE EAST	DT			07				
50+41 - 50+65	RT		42	27				
50+41 - 50+68	RT/LT		43				-	
50+41 - 50+84	RT			43				
ITEM TOTAL		8	43	605	130	46	143	

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

HWY: LOCAL STREET COUNTY: DUNN SHEET PROJECT NO: 7996-00-09 MISCELLANEOUS QUANTITIES I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 03-mq FILE NAME : PLOT DATE : 1/18/2018 8:03 AM PLOT BY: BRIAN GENSKOW PLOT NAME :

DIVISION	STATIONING	LOCATION	205.0100 COMMON EXCAVATION (CY)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (1)	AVAILABLE MATERIAL (CY) (2)	UNEXPANDED FILL	EXPANDED FILL	MASS ORDINATE +/- (3)
			СПТ				FACTOR 1.30	
1	101+37 - 115+05	MAIN STREET	1825	0	1825	35	46	1779
DIVISION 1 SUBTOTA	AL		1825	0	1825	35	46	1779
2	197+75 - 220+54	13TH STREET	2046	0	2046	268	349	1697
DIVISION 2 SUBTOTA	AL		2046	0	2046	268	349	1697
3	15+25 - 15+97	12TH AVENUE	42	0	42	5	6	36
	16+42 - 17+25		113	0	113	0	0	113
DIVISION 3 SUBTOTA	AL		155	0	155	5	6	149
4	20+50 - 21+02	11TH AVENUE WEST	38	0	38	2	2	36
	25+39 - 26+00	11TH AVENUE EAST	91	0	91	0	0	91
DIVISION 4 SUBTOTA	AL		129	0	129	2	2	127
5	30+12 - 30+88	10TH AVENUE WEST	57	0	57	7	9	48
	35+16 - 35+69	10TH AVENUE EAST	44	0	44	2	2	42
DIVISION 5 SUBTOTA	AL		101	0	101	8	11	90
6	40+35 - 40+63	9TH AVENUE	15	0	15	0	0	15
DIVISION 6 SUBTOTA	AL		15	0	15	0	0	15
7	45+50 - 46+14	WILSON AVENUE WEST	86	0	86	0	0	86
	50+18 - 51+20	WILSON AVENUE EAST	57		57	20	26	31
DIVISION 7 SUBTOTA	AL		143	0	143	20	26	117
8	60+42 - 61+68	OAKWOOD BLVD	133	0	133	1	1	132
DIVISION 8 SUBTOTA	AL		133	0	133	1	1	132
GRAND TOTAL			4547	0	4547	339	441	4106
		TOTAL COMMON EXCAVATION	= 4547					

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS **NOT** INCLUDED IN CUT.

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET PLOT NAME :

²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

³⁾ THE MASS ORDINATE = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

# **FINISHING ROADWAY**

PROJECT	LOCATION	213.0100 EACH
7996-00-09	MAIN ST/13TH ST	1
ITEM TOTAL		1

# BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120 1 1/4-INCH TON
37711317 377711317	200/11/011	
<b>MAIN STREET</b> 101+37 - 115+05		3265
<b>11TH STREET</b> 5+05 - 5+49		90
5+78 - 6+20		88
12TH STREET		
10+20 -10+50		63
10+79 - 11+27		98
13TH STREET		
197+70 - 200+71		54
200+97 - 220+58		4122
12TH AVE		
15+25 - 15+96		172
16+23 - 17+25		162
11TH AVE WEST		
20+50 - 21+02		112
11TH AVE EAST		
25+18 - 26+00		139
10TH AVE WEST		
30+12 - 30+89		128
10TH AVE EAST		
35+18 - 35+69		100
9TH AVE		
40+35 - 40+65		54
WILSON AVE WEST		
45+50 - 46+15		146
WILSON AVE EAST		
50+17 - 51+20		192
OAKWOOD BLVD		
60+42 - 61+68		241
ITEM TOTAL		9226

# **CONCRETE DRIVEWAY**

STATION - STATION	LOCATION	416.0160 6 INCH SY	*602.0415 CONCRETE SIDEWALK 6-INCH SF	REMARKS
				_
MAIN STREET				
105+34 - 105+46	LT	27	60	
105+39 - 105+51	RT	21	60	
105+79 - 105+91	LT	27	60	
105+86 - 105+98	RT	17	60	
106+00 - 106+12	LT	15	60	
106+02 - 106+14	RT	17	78	
109+33 - 109+45	LT	18	60	
109+73 - 109+87	LT	24	68	
112+48 - 112+60	RT	18	60	
112+48 - 112+61	LT	14	68	
113+13 - 113+29	RT	23	80	
13TH SREET	D.T.	0.4		
202+74 - 202+91	RT	24	88	
203+09 - 203+32	LT 	42		
209+55 - 209+77	RT 	8	110	
211+60 - 211+72	RT	13	60	
212+67 - 212+85	RT	25	88	
214+03 - 214+17	RT	41	77	
215+18 - 215+30	RT	22	60	
215+90 - 216+09	LT	99		
218+34 - 218+53	RT	44	93	
218+80 - 218+94	LT	21	70	
218+92 - 219+04	RT	13	60	
219+03 - 219+16	LT	17	60	
219+21 - 219+33	LT	16	70	
219+22 - 219+44	RT	58	110	
ITEM TOTALS		664	1660	

^{*}ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

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COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 7996-00-09 HWY: LOCAL STREET I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 05-mq FILE NAME : PLOT DATE : 1/18/2018 8:09 AM PLOT BY: BRIAN GENSKOW PLOT NAME :

# ASPHALTIC PAVEMENT ITEMS

	455.0605* TACK COAT	460.5223 HMA PAVEMENT 3 LT 58-28 S	460.5244 HMA PAVEMENT 4 LT 58-34 S
STATION -STATION	GAL	TON	TON
<b>MAIN STREET</b> 101+37 - 115+05	253	696	557
<b>11TH STREET</b> 5+05 - 5+49	7	20	16
5+78 - 6+20	7	19	15
<b>12TH STREET</b> 10+20 - 10+50 10+79 - 11+27	5 8	14 21	11 17
<b>13TH STREET</b> 197+70 - 197+84 200+56 - 200+71 200+97 - 220+58	1 1 305	1 1 754	1 1 586
WILSON AVE WEST 45+50 - 46+15 WILSON AVE EAST	12	29	23
50+17 - 51+20	17	41	32
<b>OAKWOOD BLVD</b> 60+42 - 61+68	19	48	37
<b>9TH AVE</b> 40+35 - 40+65	4	11	8
<b>10TH AVE WEST</b> 30+12 - 30+89	11	28	22
<b>10TH AVE EAST</b> 35+18 - 35+69 <b>11TH AVE WEST</b>	8	20	15
20+50 - 21+02	9	22	17
<b>11TH AVE EAST</b> 25+18 - 26+00	12	31	24
<b>12TH AVE</b> 15+25 - 15+96 16+23 - 17+25	14 15	34 36	27 28
ITEM TOTALS	708	1826	1437

^{*}APPLICATION RATE = 0.050 GAL/SY

PROJECT NO: 7996-00-09

## ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION - STATION	LOCATION	465.0120 TON
MAIN STREET		
106+02 - 106+14	RT	0.5
112+48 - 112+60	RT	0.5
112+48 - 112+60	LT	0.5
13TH STREET		
202+74 - 202+91	RT	4
209+55 - 209+77	RT	1
10TH AVE EAST		
35+47 - 35+63	RT	1
ITEM TOTAL		7.5

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 06-mq FILE NAME :

HWY: LOCAL STREET

COUNTY: DUNN

PLOT DATE : 1/18/2018 8:09 AM

MISCELLANEOUS QUANTITIES PLOT BY: BRIAN GENSKOW

PLOT NAME :

SHEET

# **CONCRETE SIDEWALK**

### CONCRETE SIDEWALK CONT'D

	STATION - STATION	LOCATION	602.0405 4-INCH SF	*602.0415 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	**602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EA	STATION - STATION	LOCATION	602.0405 4-INCH SF	*602.0415 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	**602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EA
-								040.00 044.00	DT	005	40	40		
	MAIN STREET	DT		405	00		0	210+93 - 211+60	RT LT	295 82	46	10		1
	104+01 - 104+18	RT		135	20		2	211+48 - 211+54		82 485				
	104+48 - 105+39	RT	427	185	20		2	211+72 - 212+67 212+85 - 214+03	RT RT	485 617				
	104+49 - 105+34	LT	478	139	20		2						<b></b>	
-	105+46 - 105+79	LT	166					213+85 - 213+89	RT	502				<del></del>
	105+51 - 105+86	RT	175				-	214+18 - 215+18	RT	705	 200			
	105+91 - 106+00	LT	44			<del></del>		215+30 - 216+79	RT			20	<del></del>	2
	106+12 - 107+48	LT	677	181	20		2	216+53 - 217+20	LT	326	239	20		2
	106+14 - 107+49	RT	642	231	20		2	217+51 - 218+34	RT	356	142	20		2
-	107+79 - 107+95	LT	51	159	20		2	217+54 - 218+80	LT	612	128	20	<b></b>	2
	107+80 - 110+79	RT . <del>.</del> .	1432	472	40		4	218+52 - 218+92	RT . <del>.</del>	262		<b></b>		
	108+41 - 109+33	LT	510					218+94 - 219+04	LT 	47				
	109+45 - 109+73	LT	140		<b></b>		<del></del>	219+04 - 219+22	RT	92				
	109+87 - 110+79	LT	405	170	20		2	219+16 - 219+21	LT	27				
I _	111+10 - 112+48	RT	732	213	20		2	219+35 - 220+36	LT	508				
	111+10 - 111+92	LT	438	162	20		2	219+44 - 220+59	RT	553	217	20		2
	112+60 - 113+13	RT	298											
	113+29 - 114+06	RT	392	127	20		2	12TH AVE						
	113+98 - 114+12	LT	55	210	20		2	15+42 - 15+46	RT	60				
l _	114+45 - 114+63	LT	108	126	20		2	15+52 - 15+91	LT	128	51	10		1
	<b>13TH STREET</b> 197+74 - 200+66	LT	1496	201	20		2	11TH AVE WEST	DT	50	40	40		4
					20	 1.4	2	20+82 - 21+00	RT	50	48	10		I
	201+04 - 201+43	LT	 766	208	10	14	<u> </u>	ONIGNOOD DILYD						
1 -	201+23 - 202+74	RT	766	114	10		1	OAKWOOD BLVD	DT	40				
	202+91 - 204+02	RT	528	48	10		1	61+38 - 61+63	RT	43				
	204+30 - 207+30	RT	1394	301	40		4							
	207+61 - 209+55	RT	921	62	10		1	ITEM TOTAL		18434	4577	520	14	53
	209+77 - 210+63	RT	367	62	10		1							
	209+94 - 209+99	LT	42					*ADDITIONAL QUANITITIE	S SHOWN ELSE	WHERE				

^{*}ADDITIONAL QUANITITIES SHOWN ELSEWHERE

7996-00-09

**SEE CURB RAMP - RADIAL DWF DETAIL

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

SHEET

FILE NAME :

COUNTY: DUNN

MISCELLANEOUS QUANTITIES PLOT BY: BRIAN GENSKOW

PLOT NAME :

WISDOT/CADDS SHEET 42

HWY: LOCAL STREET

PROJECT NO:

^{**}SEE CURB RAMP - RADIAL DWF DETAIL

# STORM SEWER PIPE

					608.0412	608.0415	608.0418	608.0424		
					REINFORCED	REINFORCED	REINFORCED	REINFORCED	520.8000	
			PIPE		CONCRETE CLASS IV	CONCRETE CLASS IV	CONCRETE CLASS IV	CONCRETE CLASS IV	CONCRETE COLLARS	
PIPE		INLET	OUTLET	SLOPE	12-INCH	15-INCH	18-INCH	24-INCH	FOR PIPE	
NUMBER	STATION - STATION	ELEV	ELEV	3LUPE %	LF	LF	LF	LF	EACH	REMARKS
NOMBLI	STATION - STATION	LLL V	LLL V	70	LI	LI	LI	LI	LACIT	NEWANNS
MAIN STREET										
1AB	104+19 - 104+48	879.21	878.92	1.00	29					
1E	104+46	MATCH EXISTING	MATCH EXISTING		8				1	CONNECT TO EXISTING PIPE
1BC	104+48 - 104+69	878.92	878.61	1.00	31					
1DE	104+69 - 104+46	878.30	878.00	1.00	30					
1CD	104+69	878.61	878.30	1.00	31					
2FG	107+49 - 107+72	882.58	882.34	1.00	24					
2AB	107+50 - 107+79	882.99	882.70	1.00	29					
2F	107+72	MATCH EXISTING	MATCH EXISTING				8		2	CONNECT TO EXISTING PIPE
2EF	107+78 - 107+72	881.53	881.45	1.00		8				
2DE	108+00 - 107+78	881.82	881.53	1.00		29				
2BC	107+79 - 108+02	882.70	882.38	1.00	33					
2CD	108+02 - 108+00	882.13	881.82	1.00		31				
3FG	110+76 - 111+03	885.63	885.30	1.00	33					
3AB	110+80 - 111+09	886.53	886.24	1.00	29					
3F	111+03	MATCH EXISTING	MATCH EXISTING	1.00			8		1	CONNECT TO EXISTING PIPE
3EF	111+09 - 111+03	885.07	885.00	1.00		7				
3BC	111+09 - 111+31	886.24	885.93	1.00	31					
3DE	111+32 - 111+09	885.37	885.07	1.00		30				
3CD	111+31 - 111+32	885.68	885.37	1.00		31				
4AB	114+07 - 114+38	889.67	889.36	1.00	31					
4BC	114+38 - 114+44	889.36	889.10	1.00	26					
4D	114+39	MATCH EXISTING	MATCH EXISTING				8		1	CONNECT TO EXISTING PIPE
4D.1	114+39	MATCH EXISTING	MATCH EXISTING				8		1	CONNECT TO EXISTING PIPE
4D.2	114+39	MATCH EXISTING	MATCH EXISTING				8		1	CONNECT TO EXISTING PIPE
4CD	114+44 - 114+39	888.60	888.02	1.00				58		
4CF	114+77 - 114+44	889.61	889.30	1.00				31		
4EF	114+62 - 114+77	889.95	889.61	1.00	34					
4FG	114+77 - 114+96	888.12	888.10	0.09				20		
4G	114+96	MATCH EXISTING	MATCH EXISTING					8	1	CONNECT TO EXISTING PIPE

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

FILE NAME :

PROJECT NO: 7996-00-09

COUNTY: DUNN

PLOT DATE : 1/18/2018 8:10 AM

PLOT BY: BRIAN GENSKOW

MISCELLANEOUS QUANTITIES

PLOT NAME :

Ε SHEET

## STORM SEWER PIPE CONT'D

					608.0412 REINFORCED	608.0415 REINFORCED	608.0418 REINFORCED	608.0424 REINFORCED	520.8000	
			DIDE		CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	
PIPE		INLET	PIPE OUTLET	SLOPE	CLASS IV 12-INCH	CLASS IV 15-INCH	CLASS IV	CLASS IV 24-INCH	COLLARS FOR PIPE	
NUMBER	STATION - STATION	ELEV	ELEV	% %	LF	LF	18-INCH LF	LF	EACH	REMARKS
13TH STREET										
5A	201+46 - 201+20	927.51	927.00	1.00	49				1	CONNECT TO EXISTING STRUCTURE
6AB	204+53 - 201+83	940.00	927.20	4.72			271			
6A.1	201+83	MATCH EXISTING	MATCH EXISTING	1.00			_	8	1	CONNECT TO EXISTING STRUCTURE
6A.2	201+83	MATCH EXISTING	MATCH EXISTING	1.00			-	8	1	CONNECT TO EXISTING STRUCTURE
6BD	204+53 - 204+03	946.81	946.27	1.00	54					
6BE	204+55 - 204+53	947.93	947.62	1.00	31					
6BC	207+81 - 204+53	954.01	940.00	4.29		327	-			
6FG	207+60 - 207+31	956.42	956.13	1.00	29		_			
6CG	207+81 - 207+60	956.13	955.83	1.00	30		_			
6CH	207+84 - 207+81	955.79	955.48	1.00	31		_			
7EF	210+42 - 210+63	956.65	956.08	1.98	29		_			
7HI	210+42 - 210+65	956.30	955.99	1.00	31					
7FG	210+63 - 210+89	956.08	955.82	1.00	26		_			
7IJ	210+65 - 210+91	955.99	955.73	1.00	26					
7AG	210+89 - 210+92	955.82	955.39	1.00	43		_			
7AJ	210+91 - 210+92	955.73	955.44	1.00	29		-			
7AB	210+92 - 213+78	954.43	930.57	8.35		286	_			
7BK	213+78	935.47	935.25	1.00	23		_			
7BL	213+78	934.89	934.81	1.00	9					
7BC	213+78 - 216+47	930.57	903.45	10.09		270				
7MN	216+39 - 216+45	906.81	906.75	1.00	6					
7CN	216+45 - 216+47	906.75	906.66	1.00	9		_			
7CO	216+50 - 216+47	905.88	905.66	1.00	23		_			
7CD	216+47 - 217+34	903.45	898.60	5.50		88				
7PQ	216+67 - 216+71	906.24	906.18	1.00	6		_			
7SQ	216+71 - 216+78	906.18	905.98	1.00	20		_			
7RS	216+74 - 216+78	906.04	905.98	1.00	6					
7ST	216+78 - 217+17	905.98	902.16	1.00		48				
7TU	217+20 - 217+17	900.83	900.35	1.00	48					
7DT	217+17 - 217+34	900.35	899.89	1.00			46			
7TW	217+50 - 217+17	900.68	900.35	1.00	33					
7VW	217+50	900.74	900.68	1.00	6		_			
7D	217+34	MATCH EXISTING	MATCH EXISTING	1.00				8	1	CONNECT TO EXISTING PIPE
7DX	217+73 - 217+34	897.73	897.28	1.00	45					
7XY	217+74 - 217+73	898.04	897.73	1.00	31		-			
			ITEM TOTAL		1068	1154	357	140	12	

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 09-mq FILE NAME :

COUNTY: DUNN

MISCELLANEOUS QUANTITIES PLOT BY: BRIAN GENSKOW

SHEET

PROJECT NO: 7996-00-09

# STORM SEWER STRUCTURE ITEMS

STRUCTURE NUMBER	STATION	OFFSET	TOP STRUCTURE ELEV	CASTING ELEV	BOTTOM STRUCTURE ELEV	DEPTH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1006 CATCH BASINS 6-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLET 4-FT DIAMETER EACH	611.3230 INLET 2x3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET ( TYPE H EACH	611.0639 COVERS TYPE H-S EACH	REMARKS
MAIN STREET															,
MAIN STREET 1A	104+19	35.7' RT	881.68	882.06	879.21	2.85	<u></u>				1			1	
1B	104+19	34.2' RT	881.68	882.06	878.92	3.14	 	<b></b>			1	<u></u>		1	
1E	104+46	38.7' LT	881.64	882.02	878.00	4.02	<u></u>				1		1		
1C	104+69	12.0' RT	882.24	882.62	878.61	4.01	<u></u>			<u></u>	1		1		
1D	104+69	18.9' LT	882.05	882.43	878.30	4.13			<del></del>	<del></del>	1		1		
2G	107+49	39.5' LT	885.29	885.67	882.58	3.09					<u>·</u> 1		<u>'</u>		
2A	107+50	34.5' RT	885.65	886.03	882.95	3.08					1		1		
2F	107+72	43.0' LT	885.18	885.85	881.45	4.40			1			1			
2E	107+78	38.5' LT	886.28	886.66	882.53	4.13					1			1	
2B	107+79	35.0' RT	885.65	886.03	882.66	3.37					1			1	
2D	108+00	19.0' LT	885.76	886.14	881.82	4.32					1		1		
2C	108+02	12.0' RT	885.91	886.29	882.13	4.16					1		1		
3G	110+76	23.2' LT	888.25	888.63	885.63	3.00					1		1		
3A	110+80	34.4' RT	888.82	889.20	886.28	2.92					1		1		
3F	111+03	41.5' LT	888.32	888.99	884.37	4.62			1			1		1	
3B	111+09	34.2' RT	888.82	889.20	885.99	3.21					1			1	
3E	111+09	38.0' LT	888.30	888.68	885.07	3.61					1			1	
3C	111+31	12.0' RT	889.06	889.44	885.68	3.76					1		1		
3D	111+32	19.0' LT	888.92	889.30	885.37	3.93					1		1		
4A	114+07	39.2' RT	892.39	892.77	889.67	3.10					1		1		
4B	114+38	41.3' RT	892.63	893.01	889.36	3.65			-		1		1		
4D	114+39	41.3' LT	891.75	892.42	888.02	4.40			1			1			
4C	114+44	16.5' RT	892.59	892.97	888.07	4.90	<del></del>		1					1	
4E	114+62	12.0' LT	892.57	892.95	889.95	3.00	<del></del>			<del></del>	1		1		
4F	114+77	19.0' RT	892.59	892.97	888.10	4.87			1			<del></del>		1	
4G	114+96	13.2' RT	892.94	893.32	888.12	5.20			1			1			

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

SHEET

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 10-mq FILE NAME :

PROJECT NO: 7996-00-09

PLOT DATE :

COUNTY: DUNN

1/18/2018 8:10 AM

MISCELLANEOUS QUANTITIES PLOT BY: BRIAN GENSKOW

Ε

# 3

### STORM SEWER STRUCTURE ITEMS CONT'D

STRUCTURE NUMBER	STATION	OFFSET	TOP STRUCTURE ELEV	CASTING ELEV	BOTTOM STRUCTURE ELEV	DEPTH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1006 CATCH BASINS 6-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLET 4-FT DIAMETER EACH	611.3230 INLET 2x3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET ( TYPE H EACH	611.0639 COVERS TYPE H-S EACH	REMARKS
13TH STREET															
5A	201+46	13.0' LT	931.88	932.26	927.51	4.75					1		1		
6A	201+83	13.0' RT	933.10	933.48	926.60	6.88	1				<u></u>		· 	1	
6D	204+03	37.8' RT	949.27	949.65	946.81	2.84	<u>-</u>				1		1	<u></u>	
6B	204+53	18.9' RT	950.34	950.72	940.00	10.72		1	1			1			
6E	204+56	12.0' LT	950.50	950.88	947.93	2.95					1		1		
6F	207+31	41.0' RT	958.88	959.26	956.42	2.84					1		1		
6G	207+60	41.0' RT	958.86	959.24	956.13	3.11					1		1		
6C	207+81	19.0' RT	958.21	958.59	954.01	4.58					1			1	
6H	207+84	12.0' LT	958.41	958.79	955.79	3.00					1		1		
7E	210+42	12.0' LT	959.25	959.63	956.65	2.98					1		1		
7H	210+42	19.0' RT	959.13	959.51	956.51	3.00	_				1		1		
7F	210+63	32.5' LT	958.70	959.08	956.16	2.92					1			1	
71	210+65	39.4' RT	958.61	958.99	956.20	2.79					1			1	
7G	210+89	32.4' LT	958.55	958.93	956.01	2.92					1		1		
7J	210+91	39.6' RT	958.27	958.65	955.80	2.85					1		1		
7A	210+92	10.5' RT	957.76	958.43	954.43	4.00			1			1			
7B	213+78	10.5' RT	937.42	938.09	930.57	7.52			1			1			
7K	213+78	12.0' LT	938.09	938.47	935.47	3.00				1			1		
7L	213+78	19.0' RT	937.51	937.89	934.89	3.00					1		1		
7M	216+39	19.0' RT	909.42	909.80	906.81	2.99					1			1	
7N	216+45	19.0' RT	909.00	909.38	906.92	2.46					1			1	
7C	216+47	10.5' RT	908.80	909.47	905.45	4.02			1			1			
70	216+50	12.0' LT	908.52	908.90	905.38	3.52				1			1		
7P	216+67	53.6' RT	909.40	909.78	906.24	3.54	-				1		1		
7Q	216+71	49.8' RT	908.65	909.03	906.18	2.85					1		1		
7R	216+74	72.3' RT	910.10	910.48	906.04	4.44					1		1		
7S	216+78	68.5' RT	909.28	909.66	905.98	3.68	-				1		1	-	
<b>7</b> T	217+17	40.8' RT	904.30	904.97	900.35	4.62	-		1		-	1		-	
7U	217+20	88.6' RT	906.09	906.47	900.83	5.64	-				1			1	
7D	217+34	1.9' LT	902.68	903.35	897.28	6.07			1			1			
7V	217+50	50.6' RT	903.52	903.90	900.74	3.16					1		1		
7W	217+50	44.6' RT	903.25	903.63	900.68	2.95					1		1		
7X	217+73	19.0' RT	900.94	901.32	897.73	3.59					1		1		
7Y	217+74	12.0' LT	900.73	901.11	898.04	3.07	_				1		1		
		ITEM TOTA	\L				1	1	12	2	45	10	35	16	

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

FILE NAME : I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 11-mq

PROJECT NO: 7996-00-09

HWY: LOCAL STREET

PLOT DATE :

COUNTY: DUNN

1/18/2018 8:11 AM

PLOT BY: BRIAN GENSKOW

MISCELLANEOUS QUANTITIES

PLOT NAME :

OTHERWISE NOTED.

SHEET

628.7015	
TYPE C	

2

2

2

2

1

1

74

SHEET

EX INLET

3

### STATION LOCATION EACH REMARKS 220+29 RT 220+47 LT EX INLET 220+48 RT EX INLET 221+11 LT EX INLET 221+15 RT EX INLET

# **12TH AVE** 16+46

11TH AVE EAST

# 25+41 RT/LT 10TH AVE WEST 30+67 RT/LT

# 35+40 WILSON AVE EAST

**10TH AVE EAST** 

OAKWOOD BLVD			
00.00		· ·	
50+89	RT	1	
50+85	RT	1	EX INLET
50+68	LT	1	EX INLET
50+51	LT	1	
50+45	LT	1	

RT

RT

LT LT

RT

RT/LT

RT/LT

### 61+13 61+13 61+19

61+41

61+07

ITEM TOTALS

### **INLET PROTECTION CONT'D**

STATION -STATION	LOCATION	624.0100 MGAL	REMARKS
101+37 - 115+05 200+97 - 220+58	MAIN STREET 13TH STREET	65 98	BASE COMPACTION & DUST CONTROL
ITEM TOTALS		163	

WATER

## TOPSOIL, MULCHING, FERTILIZER, AND SEEDING

	LOGATION	625.0100 TOPSOIL **P**	627.0200 MULCHING **P**	629.0210 FERTILIZER TYPE B **P**	630.0140 SEEDING MIXTURE NO. 40 **P**	630.0200 TEMPORARY SEEDING **P**
STATION - STATION	LOCATION	SY	SY	CWT	LB	<u>LB</u>
<b>MAIN STREET</b> 104+48 - 107+49	RT/LT	495	495	0.3	8.9	13.4
107+79 - 110+79	RT/LT	626	626	0.4	11.3	16.9
111+10 - 114+13	RT/LT	565	565	0.4	10.2	15.3
114+46 - 115+05	RT/LT	107	107	0.1	1.9	2.9
13TH STREET						
197+72 - 200+67	LT	356	356	0.2	6.4	9.6
201+01 - 204+03	RT/LT	806	806	0.5	14.5	21.8
204+26 - 207+34	RT/LT	983	983	0.6	17.7	26.5
207+57 - 210+67	RT/LT	779	779	0.5	14.0	21.0
210+88 - 217+21	RT/LT	1370	1370	0.9	24.7	37.0
217+52 - 220+36	RT/LT	817	817	0.5	14.7	22.1
UNDISTRIBUTED		700	700	0.5	15	20
ITEM TOTALS		7604	7604	4.9	139.3	206.5

^{**}P** Pay Plan Quantity

7996-00-09

PROJECT NO:

### **MOBILIZATIONS**

PROJECT	619.1000 MOBILIZATION EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
7996-00-09	1	2	2
ITEM TOTALS	1	2	2

HWY: LOCAL STREET

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

COUNTY: DUNN

MISCELLANEOUS QUANTITIES

**INLET PROTECTION** 

LOCATION

RT

RT

LT

RT

RT/LT

RT/LT

RT

RT/LT

LT

RT

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RT

RT/LT

RT

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STATION

MAIN STREET

101+39

104+19

104+46

104+48

104+50

104+69 107+46

107+82

108+00

108+02

110+76

110+76

111+13

111+31

111+32

114+44

114+62

114+77

11TH STREET

5+25

5+98

6+00

12TH STREET

10+27

10+99

13TH STREET

197+94

198+00

200+82

201+20

201+46

204+45

204+53

204+56

207+81

207+84

210+42

213+78

216+39 216+46

216+50

216+69

217+14

217+73

217+74

220+28

628.7015

TYPE C

EACH

2

2

2

2

2

REMARKS

EX INLETS

EX INLET

EX INLETS

EX INLET

**EX INLETS** 

EX INLET

EX INLET

EX INLET

EX INLET

EX INLET

EX INLET

# PERMANENT SIGNS AND SUPPORTS

					634.0814	637.2210	637.2230
					POSTS TUBULAR	TYPE II	TYPE II
SIGN			SIGN		STEEL 2X2-INCH X 14-FT	REFLECTIVE H	REFLECTIVE F
NO.	STATION	LOCATION	CODE	W X H	EACH	SF	SF
1-1	104+09	LT	R1-1	30 X 30	1	5.18	
1-2	104+52	RT	R1-1	30 X 30	1	5.18	
1-3	105+09	RT	R7-1D	18 X 24	1	3.00	
1-4	107+45	LT	R1-1	30 X 30	1	5.18	
1-5	110+43	LT	D11-1	24 X 18	1	3.00	
1-7	110+76	LT	R1-1	30 X 30	1	5.18	
1-8	111+55	RT	R7-1D	18 X 24	1	3.00	
1-9	111+14	RT	R1-1	30 X 30	1	5.18	
1-11	110+26	RT	R7-1D	18 X 24	1	3.00	
1-13	109+11	RT	D11-1	24 X 18	1	3.00	
1-14	108+32	RT	R7-1D	18 X 24	1	3.00	
1-16	107+84	RT	R1-1	30 X 30	1	5.18	
1-17	106+95	RT	R7-1D	18 X 24	1	3.00	
2-1	113+73	LT	D11-1	24 X 18	1	3.00	
2-3	114+07	LT	R1-1, R1-3P	30 X 30, 18 X 6	1	7.00	
2-4	114+63	LT	R1-1, R1-3P	30 X 30, 18 X 6	1	7.00	
2-5	114+44	RT	R1-1, R1-3P	30 X 30, 18 X 6	1	7.00	
2-6	114+00	RT	D11-1	24 X 18	1	3.00	
2-7	113+90	RT	R1-1, R1-3P	30 X 30, 18 X 6	1	7.00	
2-8	113+48	RT	R7-1D	18 X 24	1	3.00	
3-1	201+59	LT	R7-1D	18 X 24	<u>.</u> 1	3.00	
3-2	201+12	RT RT	R7-1L	18 X 24	1	3.00	
3-3	203+53	LT	R7-1D	18 X 24	1	3.00	
3-4	203+97	LT	R1-1	30 X 30	1	5.18	
3-6	204+92	LT	R7-1D	18 X 24	1	3.00	
3-7	206+73	LT	R7-1D	18 X 24	1	3.00	
3-9	207+28	LT	R1-1	30 X 30	1	5.18	
3-11	208+21	LT	R7-1D	18 X 24	1	3.00	
3-12	207+67	RT	R1-1	30 X 30	1	5.18	
3-12	204+35	RT	R1-1	30 X 30	1	5.18	<del></del>
3-14	203+55	RT	R7-1D	18 X 24	1	3.00	
3-14 4-1	210+04	LT	R7-1D	18 X 24	1	3.00	<b></b>
4-3	210+56	LT	R1-1	30 X 30	1	5.18	<b></b>
4-3 4-5	211+39	LT	R7-1D	18 X 30	1	3.00	<b></b>
		LT			1	3.00	<del></del>
4-7	213+36		R7-1D	18 X 24 30 X 30			 6 25
4-9	213+96	LT	W14-2		1	2.00	6.25
4-10	214+79	LT	R7-1D	18 X 24	1	3.00	
4-12	210+98	RT	R1-1	30 X 30	1	5.18	<del></del>
4-13	216+41	LT	R7-1D	18 X 24	1	3.00	
4-15	217+18	LT	R1-1	30 X 30	1	5.18	
4-16	218+11	LT	R7-1D	18 X 24	1	3.00	
4-18	219+89	LT	R7-1D	18 X 24	1	3.00	
4-19	217+56	RT	R1-1	30 X 30	1	5.18	
4-20	61+27	RT	R1-1	30 X 30	1	5.18	
	LTOTALS				11	177.70	6.05
II⊨W	I TOTALS				44	177.70	6.25

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

HWY: LOCAL STREET FILE NAME : PLOT DATE :

COUNTY: DUNN

3/16/2018 9:49 AM

MISCELLANEOUS QUANTITIES

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PROJECT NO: 7996-00-09

PLOT NAME :

# FIELD OFFICE

	642.5001
	TYPE B
PROJECT	EACH
7996-00-09	1
ITEM TOTAL	1

SIGN NO.	STATION	LOCATION	MESSAGE	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	104+09	LT	STOP			1	1	
1-2	104+52	RT	STOP			1	1	
1-4	107+45	LT	STOP			1	1	
1-6	110+72	LT	BIKE ROUTE			1		ON POWER POLE
1-7	110+76	LT	STOP			1	1	
1-9	111+14	RT	STOP			1	1	
1-10	110+73	RT	12TH ST, MAIN ST	1	1			
1-12	109+37	RT	BIKE ROUTE			1		ON POWER POLE
1-15	107+86	RT	E 11TH ST, MAIN ST	1	1			
1-16	107+84	RT	STOP			1	1	
2-2	114+07	LT	BIKE ROUTE			1		ON POWER POLE
2-3	114+07	LT	STOP			1	1	
2-5	114+39	RT	STOP			1	1	
2-6	114+00	RT	12TH ST, MAIN ST, BIKE ROUTE	1	1	1		REMOVE BIKE SIGN
3-4	203+97	LT	STOP			1	1	
3-5	204+41	LT	E 12th AV, E 13th ST	1	1			_
3-8	207+28	LT	E 13th ST, E 11th AV	1	1			
3-9	207+28	LT	STOP		<b></b>	1	1	
3-10	208+08	LT	NO PARKING			1	1	
3-12	207+67	RT	STOP			1	1	
3-13	204+31	RT	STOP			1	1	_
4-1	209+88	LT	NO PARKING			1		ON POWER POLE
4-2	210+56	LT	E 10th AV, E 13th ST, STOP	1	1	1		REMOVE STOP SIGN
4-4	211+28	LT	NO PARKING			1	1	
4-6	212+39	LT	NO PARKING			1		ON POWER POLE
4-8	213+86	LT	E 9th AV, E 13th ST	1	1			
4-9	213+96	LT	NO OUTLET			1	1	
4-11	215+17	LT	NO PARKING			1	1	
4-12	210+98	RT	STOP			1	1	
4-14	217+13	LT	13TH ST, Wilson AV	1	1			
4-15	217+18	LT	STOP			1	1	
4-17	218+37	LT	NO PARKING			1	1	
4-18	219+89	LT	NO PARKING			1	1	
4-19	217+56	RT	STOP			1	1	
4-20	61+27	RT	STOP			11	1	
4-21	216+71	RT	OAKWOOD AV	1	1			
ITEM	TOTALS			9	9	29	22	

<u>SIGNS</u>

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

FILE NAME: I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 14-mq

PROJECT NO:

7996-00-09

COUNTY: DUNN

MISCELLANEOUS QUANTITIES

PLOT NAME :

SHEET

# **PAVEMENT MARKING**

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.5220 MARKING SYMBOL EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7520* MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH LF	646.8120 MARKING CURB EPOXY LF	REMARKS
MAIN OTDEET							
MAIN STREET	CENTEDLINE	00	4	04			VELLOW CKIDO
101+37 - 104+03	CENTERLINE	63	4	21			YELLOW SKIPS
104+03 - 104+64	RT/LT			30	198	 20 <i>E</i>	VELLOW/
104+47 - 107+51	RT					325	YELLOW
104+64 - 107+31	CENTERLINE	63	4				YELLOW SKIPS
107+31 - 107+96	RT/LT			27	168		VELLOW
107+78 - 110-81	RT					321	YELLOW
107+96 - 110+62	CENTERLINE	63	4				YELLOW SKIPS
110+62 - 111+27	RT/LT		<del></del>	27	168		\/EI   0\A/
111+08 - 114+08	RT		<del></del>			327	YELLOW
111+27 - 113+90	CENTERLINE	63	4				YELLOW SKIPS
113+90 - 114+61	RT/LT			53	162		
114+61 - 115+05	CENTERLINE	13			-		YELLOW SKIPS
13TH AVE							
200+65 - 201+03			-		60		
200+99-204+04	RT/LT				60	621	YELLOW
201+23 - 204+04	CENTERLINE	63	4				YELLOW SKIPS
204+04 - 204+49	RT/LT			30	84		
204+37 - 207+35	LT				-	322	YELLOW
204+49 - 207+17	CENTERLINE	63	4				YELLOW SKIPS
207+17 - 207+59	RT/LT			29	90		
207+62 - 210+64	LT					325	YELLOW
207+82 - 210+44	CENTERLINE	63	4				YELLOW SKIPS
210+62 - 210+91	RT/LT			26	42		
210+88 - 213+99	LT					335	YELLOW
211+10 - 216+59	CENTERLINE	125	8		_		YELLOW SKIPS
214+19 - 217+22	LT					326	YELLOW
216+59 - 217+68	RT/LT			29	228		
217+52 - 220+29	LT					289	YELLOW
217+68 - 220+30	CENTERLINE	63	4				YELLOW SKIPS
OAKWOOD BLVD 61+29			-	13	-	-	
ITEM TOTALS		642	40	285	1,260	3,191	

*CATEGORY 0020

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

SHEET

HWY: LOCAL STREET PROJECT NO: 7996-00-09 COUNTY: DUNN MISCELLANEOUS QUANTITIES FILE NAME : I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 15-mq PLOT DATE : 3/16/2018 9:46 AM PLOT BY: BRIAN GENSKOW PLOT NAME :

# TRAFFIC CONTROL

LOCATION	643.5000 TRAFFIC CONTROL EACH	643.0420 BARRICADES TYPE III DAYS	643.0410 BARRICADES TYPE II DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS
PROJECT 7996-00-09	1				
MAIN STREET	ı	 1152	 192	 2112	 1344
10TH STREET		1152	288	1824	1056
11TH STREET	<u></u>	1152	288	1824	1248
12TH STREET		768	192	1344	1248
			192		
13TH STREET		1152		1920	960
WILSON AVE		768	-	768	768
OAKWOOD BLVD		576		768	480
9TH AVE		192		384	192
10TH AVE		576		960	672
11TH AVE		576		960	672
12TH AVE		576		960	672
ITEM TOTALS	1	8640	960	13824	9312

# **CONSTRUCTION STAKING**

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6500 STRUCTURE LAYOUT (R-17-9) LS	650.9910 SUPPLEMENTAL CONTROL (7996-00-09) LS	650.9920 SLOPE STAKES LF
MAIN STREET						_
101+37 - 115+05		1368	1368			1368
13TH STREET						
201+23 - 220+54		1931	1931	1		2280
12TH AVE						
16+23 - 17+25		102	102			
WILSON AVE EAST						
50+18 - 51+20		102	102		-	_
OAKWOOD BLVD						
60+42 - 61+67		125	125			
PROJECT 7996-00-09		<del></del>			1	<del></del>
ITEM TOTALS		3628	3628	1	1	3648

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 7996-00-09

MISCELLANEOUS QUANTITIES

SAWING

STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
OTATION	LOOATION		<u> </u>
MAIN STREET			
101+37		40	
104+01 - 104+20	RT		18
104+17 - 104+46	LT	29	2
104+19 - 104+46	RT	27	2
104+59 - 104+64	RT		5
104+59 - 104+64	LT		5
105+31 - 105+55	LT		28
105+40 - 105+50	RT		10
105+75 - 105+95	LT		24
106+03 - 106+13	RT	10	
107+32 - 107+37	RT		5
107+32 - 107+37	LT		5
107+91 - 107+96	RT		5
107+91 - 107+95	LT		4
109+35 - 109+43	LT		8
109+73 - 109+87	LT		14
110+63 - 110+68	LT		5
111+22 - 111+26	LT		4
111+57 - 111+61	LT		4
112+48 - 112+61	LT	13	<u></u>
112+49 - 112+58	RT	9	
114+13 - 114+46	LT	29	4
114+55 - 114+66	LT	25	7
115+05	LI	29	4
			<del>_</del>
11TH STREET			
5+05		27	4
6+20		27	4
			•
12TH STREET			
10+20		27	4
11+27		27	4
<del>_</del> .		_·	·
13TH STREET			
197+70 - 197+85	LT	25	9
200+13 - 200+15	LT		2
200+55 - 200+71	LT	27	9
200+97 - 201+23		64	4
202+73 - 202+92	RT	19	
203+09 - 203+32	LT		22
209+56 - 209+76	RT	20	
211+01 - 211+05	RT	<del></del>	4
211+62 - 211+72	RT		10
212+43 - 212+46	RT		4
212+67 - 212+85	RT		18
213+65 - 213+67	RT		2
213+85 - 213+89	RT		4
214+03 - 214+25	RT		22
215+18 - 215+29	RT		11
			• •
			CONTID

CONT'D

SHEET

FILE NAME: I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 16-mq

HWY: LOCAL STREET

PLOT DATE : 1/18/2018 8:13 AM

COUNTY: DUNN

PLOT BY: BRIAN GENSKOW

PLOT NAME :

# SAWING CONT'D

		690.0150	690.0250
		ASPHALT	CONCRETE
STATION	LOCATION	LF	LF
215+90 -216+09	LT		19
218+18 - 218+53	RT		46
218+76 - 218+79	RT		3
218+80 - 218+94	LT		14
219+05 - 219+13	LT		8
219+22 - 219+44	RT		22
220+35 - 220+40	RT		5
12TH AVE			
15+25		33	4
15+52	LT		4
17+25		24	
11TH AVE WEST			
20+50		27	<u> </u>
20+82	RT		5
11TH AVE EAST			
26+00		23	
10TH AVE WEST			
30+12		24	
10TH AVE EAST			
35+47 - 35+63	RT	16	
35+69		24	2
9TH AVE			
40+35		18	
WILSON AVE WEST			
45+50		30	4
45+78			5
45+93			5
WISLON AVE EAST			
51+20		28	4
OAKWOOD BLVD			
60+42		17	4
61+28	LT		4
61+38	RT		4
ITEM TOTAL		713	462

# **CONCRETE CURB & GUTTER**

STATION - STATION	LOCATION	SPV.0090.01 24-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB & GUTTER
MAIN OTREET			
MAIN STREET	DT	00	00
104+01 - 104+20	RT	33	33
104+47 - 107+36	RT	308	308
104+48 - 107+35 107+92 - 110+66	LT LT	305	305
	RT	274	274 274
107+93 - 110+66 111+23 - 113+87		274	
111+23 - 113+87	RT	264	264
	LT	326	326
114+45 - 115+05	LT	93 63	93 63
114+58 - 115+05	RT	63	03
11TH STREET			
5+05 - 5+47	RT/LT	100	100
5+79 - 6+20	RT/LT	97	97
12TH STREET			
10+20 - 10+48	RT/LT	72	72
10+80 - 11+27	RT/LT	110	110
13TH STREET			
197+73 - 197+85	LT	18	18
200+56 - 200+68	LT	20	20
201+01 - 203+84	LT	294	294
201+23 - 203+85	RT	263	263
204+49 - 207+12	RT	262	262
204+54 - 207+15	LT	262	262
207+79 - 210+46	RT	267	267
207+82 - 210+44	LT	262	262
211+08 - 213+79	LT	272	272
211+11 - 216+61	RT	552	552
214+39 - 217+03	LT	263	263
217+69 - 220+60	RT	299	299
217+72 - 220+53	LT	294	294
12TH AVE			
15+25 - 15+96	RT/LT	158	158
16+25 - 16+53	RT/LT	78	78
11TH AVE WEST			
20+50 - 21+00	RT/LT	122	122
			_
11TH AVE EAST			
25+19 - 25+48	RT/LT	78	78
40711 81/5 11/507			
10TH AVE WEST	DT// T	70	70
30+58 - 30+87	RT/LT	78	78

### **CONCRETE CURB & GUTTER CONT'D**

	STATION - STATION	LOCATION	SPV.0090.01 24-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB & GUTTER	
-					-
	10TH AVE EAST				
	35+19 - 35+44	RT	35	35	
	35+19 - 35+69	LT	60	60	
	9TH STREET				
_	40+44 - 40+63	RT/LT	58	58	_
	<b>WILSON AVE WEST</b>				
	45+50 - 46+13	RT/LT	148	148	
_	WILSON AVE EAST				
	50+20 - 51+20	LT	111	111	
	50+87 - 51+20	RT	33	33	
_	OAKWOOD BLVD				
	60+42 - 61+34	LT	129	129	
	60+42 - 61+66	RT	124	124	
_					
	ITEM TOTAL		6161	6161	

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

Ε SHEET

PROJECT NO: 7996-00-09

HWY: LOCAL STREET

COUNTY: DUNN

MISCELLANEOUS QUANTITIES

3

WAT	ER	<b>REMO</b>	VALS

STATION	OFFSET DIST.	OFFSET DIR.	STREET	SPV.0060.01 REMOVE EXG. HYDRANT EACH	SPV.0060.02 REMOVE EXG. GATE VALVE EACH	SPV.0090.02 REMOVE EXG. WATER MAIN LF	SPV.0105.01 ABANDON EXG. WATER MAIN LS	REMARKS
04 TE 00 DV 0000								
CATEGORY 0020							,	DD0 1505 WD5 17540
<b></b>					<del></del>	-	1	PROJECT-WIDE ITEMS
6+03	10.9	LT	11TH ST		1			
16+49	25.3	RT	12TH AVE	1				
20+95	23.1	RT	11TH AVE	1		-		
20+95	23.1	RT	11TH AVE			9		HYD LEAD
21+00 - 20+51	13.9	RT	11TH AVE			49		
20+93 - 21+04	6.8	RT	11TH AVE			11		
108+00	21.8	RT	MAIN ST	1				
111+28	22.8	RT	MAIN ST	1				
207+36 - 210+68	8.4	LT	13TH ST			332		
210+52	22.2	RT	13TH ST	1		_		
217+14	16.6	LT	13TH ST	1				
ITEM TOTAL				6	1	401	1	

# WATER SERVICE SUMMARY

			SPV.0060.03 CORP. STOP	SPV.0060.04 CURB STOP	SPV.0090.05 WTR SERVICE LATERAL	
	OFFSET		1.0"	& BOX, 1.0"	1" COPPER	
STATION	DIRECTION.	STREET	EACH	EACH	LF	REMARKS
CATEGORY 0020	)					
50+50	LT	WILSON AVE.	1	1	30	
105+03	RT	MAIN ST	1	1	31	
105+29	LT	MAIN ST	1	1	15	
105+76	RT	MAIN ST	1	1	31	
106+70	LT	MAIN ST	1	1	13	
108+50	LT	MAIN ST	1	1	16	
109+00	LT	MAIN ST	1	1	13	
109+28	RT	MAIN ST	1	1	27	
110+14	LT	MAIN ST	1	1	16	
111+18	RT	MAIN ST	1		40	CURB STOP BEYOND LOCATION OF TIE
111+92	RT	MAIN ST	1	1	27	
112+11	LT	MAIN ST	1	1	16	
112+84	RT	MAIN ST	1	1	30	
112+88	LT	MAIN ST	1	1	16	
113+38	RT	MAIN ST	1	1	29	
213+22	RT	13TH ST	1	1	33	
213+73	RT	13TH ST	1	1	55	
215+68	RT	13TH ST	1	1	44	
218+70	RT	13TH ST	1	1	40	
ITEM TOTAL			19	18	522	

# SANITARY SEWER ITEMS

STRUCTURE NUMBER	STATION	OFFSET	CASTING ELEV	REMOVE & REPLACE SAN MH CASTINGS & RINGS EACH
CATEGORY 0020 MAIN STREET				
1	104+35	1.0' LT	882.48	1
2	107+63	1.2' LT	886.17	1
3	110+97	0.8' LT	889.35	1
4	114+23	2.3' RT	892.70	1
13TH STREET	007.47	4.01.DT	050.00	4
10	207+47	4.2' RT	958.62	1
9	210+76	13.7' RT	958.80	1
8	214+09	5.0' RT	934.65	
5	217+36	3.9' RT	903.31	1
OAKWOOD BLVD				
7	60+54	1.9' LT	916.04	1
6	61+27	6.0' LT	908.53	1
ITEM TOTAL				10

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

SHEET

SPV.0060.12

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 18-mq FILE NAME :

PROJECT NO:

7996-00-09

COUNTY: DUNN

MISCELLANEOUS QUANTITIES PLOT BY: BRIAN GENSKOW

PLOT NAME :

HWY: LOCAL STREET

PLOT DATE : 1/5/2018 8:48 AM

							WATER	APPERTENANCE	S SUMMARY					
	STATION	OFFSET DIST.	OFFSET DIR.	- STREET	SPV.0060.05 HYDRANT EACH	SPV.0060.06 CONTROL VALVE & BOX, GATE, 6" EACH	SPV.0060.07 CONTROL VALVE & BOX, GATE, 8" EACH	SPV.0060.08 CONNECT TO EXG. (CUT IN) EACH	SPV.0060.09 CONNECT TO EXG. 20"x6" WET TAP EACH	SPV.0060.10 CONNECT TO EXG. 20"x8" WET TAP EACH	SPV.0060.11 WATERMAIN OFFSET PACKAGE EACH	SPV.0105.02 MAINTAIN WATER SERVICE LS	SPV.0165.05 INSULATION SF	REMARKS
<u> </u>	ATEGORY 002	20												_
CF	ATEGORT 002			<del></del>						<del></del>		1		PROJECT 7996-00-09
	6+00	11.0	LT	11TH ST									64	
	6+03	10.9	LT	11TH ST				1						
	10+89	11.2	LT	12TH ST		-	-						64	
	15+50	11.7	RT	12TH AVE		-	-	1						
	16+24 16+44	10.4 10.1	RT RT	12TH AVE 12TH AVE	 	_		<del></del>					64 64	
	16+49	9.9	RT	12TH AVE		<del></del>		 1		 				
	20+51	6.5	RT	11TH AVE		_		1						
_	20+51	15.5	RT	11TH AVE				1						
	20+91	6.7	RT	11TH AVE				1						
	25+19	11.2	RT	11TH AVE		-							64	
	25+41	11.2	RT	11TH AVE		-							64	
	25+44 30+56	11.1 7.8	RT RT	11TH AVE 10TH AVE				1						
_	30+567	7.7	RT	10TH AVE		<del>-</del>		I			 		 64	
	35+40	9.7	RT	10TH AVE		<u></u>	<u></u>		<u></u>		 		64	
	35+57	0.2	RT	10TH AVE				1						
	45+70	12.6	RT	WILSON AVE				1						
	50+21	9.7	RT	WILSON AVE		-	-						64	
	50+41	9.8	RT	WILSON AVE									64	
	51+06	6.1	RT	WILSON AVE	<b></b>			1						
	60+64	6.8	RT	OAKWOOD BLVD				1						
	61+15 61+65	3.5 17.2	RT	OAKWOOD BLVD					<del></del>				64 64	
_	107+52	8.7	RT LT	MAIN ST		<del></del>				1	1			
	108+05	8.2	LT	MAIN ST		1			1		1	<u></u>		
	108+05	21.4	RT	MAIN ST	1	<u>-</u>								
	108+05	21.0	RT	MAIN ST		-							64	
	110+85	9.1	LT	MAIN ST						1	1			_
	110+85	42.8	LT	MAIN ST				1						
	114+07	7.6 14.0	LT	MAIN ST						1	1			
	201+83 203+85	23.8	LT LT	13TH ST 13TH ST	 1	1	<u></u>	I	<u></u>		<u></u>		<del></del>	
	204+08	7.7	LT	13TH ST			4	 	 	 	<u></u>	<u></u>		8"x8" CROSS
	204+55	5.0	LT	13TH ST				<del></del>		<del></del>			64	5 X5 51 X5 55
	207+26	19.1	LT	13TH ST	1	1								
	207+35	6.0	LT	13TH ST			4							8"x8" CROSS
	207+83	6.1	LT	13TH ST									64	_
	210+68	6.5	LT	13TH ST			4							8"x8" CROSS
_	210+91	6.0	LT	13TH ST			-	<b></b>	<b></b>				64	
	211+08 214+43	22.0 22.0	LT LT	13TH ST 13TH ST	1	1 1								
	214+43	6.0	LT	13TH ST				<del></del>		<del></del>			 64	
	217+25	6.0	LT	13TH ST			4	<del></del>		 			-	8"x8" CROSS
	217+25	0.9	LT	13TH ST									64	
	217+34	6.0	LT	13TH ST									64	
	217+74	6.0	LT	13TH ST									64	
	217+77	18.0	LT	13TH ST	1	1							_	
	220+28	6.0	LT	13TH ST		<b></b>	<u></u>	<b></b>		<b></b>	<b></b>		64	NOTE: TABLE QUA
_	ITEM TOTAL	<del></del>			6	6	17	14	1	3	4	1	1344	CATEGORY 0010 OTHERWISE NOT
-	7996-00-09			HWY: LOCA	AL CEDEET		COUNTY: DUNN			JS QUANTITIES				SHEET

## WATER MAIN PIPE SUMMARY

0747014	OFFSET				OFFSET		SPV.0090.03 WATERMAIN 6" DUCT. IRON	SPV.0090.04 WATERMAIN 8" DUCT. IRON	DELLA DIZO
STATION	DIST.	DIR.	TO STATION	DIST.	DIR.	STREET	LF	LF	REMARKS
CATEGORY 002	20								
20+51	6.5	RT	20+51	15.5	RT	11TH AVE	10		
46+20	11.9	RT	50+58	9.7	RT	WILSON AVE		64	8"x8" CROSS AT STA 46+20
50+58	9.7	RT	51+06	6.1	RT	WILSON AVE		49	
60+64	6.8	RT	61+23	2.3	RT	OAKWOOD AVE		58	
61+23	2.3	RT	61+72	17.4	RT	OAKWOOD AVE		44	
107+52	8.7	LT	107+52	42.5	LT	MAIN ST		32	20"x8" LIVE TAP TO NORTH ON 11TH ST
108+05	8.2	LT	108+05	21.3	RT	MAIN ST	30		20"x6" LIVE TAP TO SOUTH FOR HYD
110+84	9.1	LT	110+84	42.8	LT	MAIN ST		32	20"x8" LIVE TAP TO NORTH 12TH ST
201+83	14.0	LT	203+84	9.7	LT	13TH ST		200	
203+84	9.7	LT	203+84	23.8	LT	13TH ST	14		HYD LEAD
203+84	9.7	LT	204+09	7.7	LT	13TH ST		25	8"x8" CROSS AT STA 204+09
204+09		LT				13TH ST		51	CONNECTION TO WEST ON 12TH AVE
204+09		RT				13TH ST		50	CONNECTION TO EAST ON 12TH AVE
204+09	7.7	LT	207+12	5.9	LT	13TH ST		304	
207+12	5.9	LT	207+12	19.1	LT	13TH ST	13		HYD LEAD
207+12	5.9	LT	207+35	6.0	LT	13TH ST		23	8"x8" CROSS AT STA 207+35
207+35		LT				13TH ST		19	CONNECTION TO WEST ON 11TH AVE
207+35		RT				13TH ST		50	CONNECTION TO EAST ON 11TH AVE
207+35	6.0	LT	210+68	6.5	LT	13TH ST		334	8"x8" CROSS AT STA 210+68
210+68		LT				13TH ST		37	CONNECTION TO WEST ON 10TH AVE
210+68	-	RT			-	13TH ST		68	CONNECTION TO EAST ON 10TH AVE
210+68	6.5	LT	211+08	6.0	LT	13TH ST		39	
211+08	6.0	LT	211+08	22.0	LT	13TH ST	16		HYD LEAD
211+08	6.0	LT	214+43	6.0	LT	13TH ST		335	
214+43	6.0	LT	214+43	22.0	LT	13TH ST	16		HYD LEAD
214+43	6.0	LT	217+25	6.0	LT	13TH ST		282	8"x8" CROSS AT STA 217+25
217+25		LT				13TH ST		50	CONNECTION TO WEST ON WILSON AVE
217+25	6.0	LT	217+77	6.0	LT	13TH ST		52	
217+77	6.0	LT	217+77	18.0	LT	13TH ST	12		HYD LEAD
217+77	6.0	LT	220+74	17.5	LT	13TH ST		302	
ITEM TOTAL							111	2500	

# WALL MODULAR BLOCK GRAVITY LANDSCAPE STA 216+75

	STATION - STATION	LOCATION	SPV.0165.02 SF	REMARKS
	216+75 - 217+07	LT	165	SEE DETAIL
=	ITEM TOTAL		165	

# SALVAGE AND REINSTALL BRICK PAVERS

STATION - STATION	LOCATION	SPV.0165.04 SF
MAIN STREET 107+95 - 108+41 111+92 - 113+97 114+64 - 114+72	LT LT LT	247 1001 42
<b>12TH STREET</b> 10+17 - 10+32	RT	71
ITEM TOTAL		1361

NOTE: TABLE QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 20-mq FILE NAME :

COUNTY: DUNN

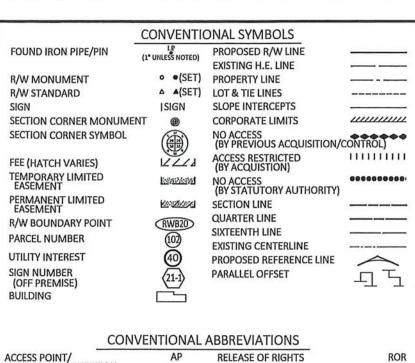
MISCELLANEOUS QUANTITIES

SHEET

HWY: LOCAL STREET

7996-00-09

PROJECT NO:



CONVENTION	NAL UTILITY	SYMBOLS
WATER	w-	
GAS	——G-	
TELEPHONE	——т-	
OVERHEAD	——он-	
TRANSMISSION LINE ELECTRIC	:S ——— E—	
<b>CABLE TELEVISION</b>	—тv-	
FIBER OPTIC	——- FO-	
SANITARY SEWER	SAN-	<del></del>
STORM SEWER	NON ss -	
	COMPENSABLE	COMPENSABLE
POWER POLE	Ь	4
TELEPHONE POLE	ø	ø

TELEPHONE PEDESTAL X

ELECTRIC TOWER

R/W PROJECT NUMBER	SHEET	TOTAL	
7996-00-08	NUMBER	SHEETS	
CONSTRUCTION PROJECT NUMBER 7996-00-09	4.01		

PLAT OF RIGHT OF WAY REQUIRED FOR

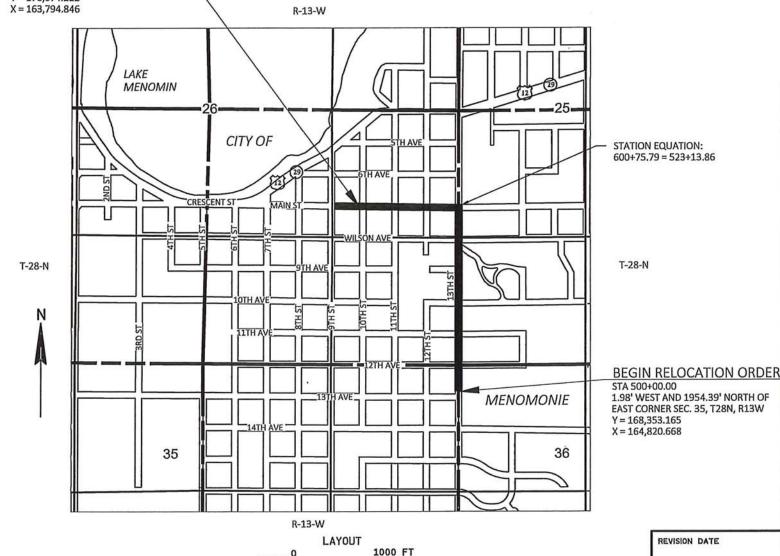
CITY OF MENOMONIE, MAIN STREET/13TH STREET 13TH STREET/13TH AVENUE TO 9TH STREET/MAIN STREET LOCAL STREET **DUNN COUNTY** 

ACCESS POINT/	AP	RELEASE OF RIGHTS	ROR
DRIVEWAY CONNECTION		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	SECTION LINE	S/L
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		٠.
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

**END RELOCATION ORDER** STA 611+00

 $\boxtimes$ 

4258.51' EAST AND 993.29' SOUTH OF WEST CORNER SEC. 26, T28N, R13W Y = 170,674.222



TOTAL NET LENGTH OF CENTERLINE = 0.632 MI

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES
ONLY. DEEDS MUST BE CHECKED TO DETERMINE

PROPERTY BOUNDARIES.

ACCEPTED FOR **MENOMONIE** ORIGINAL PLANS PREPARED BY



CEDARBURG - GREEN BAY - MADISON - MENOMONIE www.cedarcorp.com



THIS SURVEY IS PREPARED AT THE REQUEST OF THE CITY. THE FIELD SURVEY WAS PERFORMED IN OCTOBER 2017. THIS SURVEY IS CORRECT TO THE BEST OF MY

### NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DUNN COUNTY, NAD83 2011 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON. THE RIGHT OF INGRESS AND EGRESS. OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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

OWNERS NAMES SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF SCHEDULE OF LANDS & INTERESTS REQUIRED ALL AREAS SHOWN IN SQUARE FEET SHEET INTEREST TLE PARCEL OWNER(S) NAME REQUIRED SQUARE FEET NUMBER NO. 4,04 DANIEL E SEMBACH 929.9 TLE 4.04 CHAD GROFF 924.4 TLE HOUSING AUTHORITY 136.4 4.04 4 TLE 4.04 THE OAKS OF DUNN COUNTY TLE 399.8 4.04 CARPENTRY SERVICES, LLC 2682.5 6 TLE 4.05 MICHAEL FAIRCHILD 2643.3 TLE 4.05 TIMOTHY T TILLESON 860.7 TLE 4.05 JUAN J & ALISHA M RAMIREZ TLE 58.4 4.05 LEAH R & NICHOLAS D DUNBAR & ULRICH 620.9 10 TLE 3044.5 4.06 TOMMY A & KENT & MARLENE MATHISON 11 TLE 12 4.06 DOUGLAS M & THERESA M HENDERSON TLE 440.3 13 4.06 ERIK A & ANNA L CHRISTENSON TLE 1640.2 CAROL L VANDEBERG 263.5 14 4.06 TLE 16 4.07 LUKE WELCH 1403.7 TLE 17 4.07 MDSND INVESTMENTS LLC TLE 708.6 18 4.07 LEVI C BENSON TLE 1659.0 4.07 TAMI L DENT-JACKSON 101.1 19 TLE 358.7 20 4.08 KARLIE FRITZ TLE 21 4.08 JAMIE S LAWRENCE-OLSON TLE 227.0 22 4.08 CAROL GODSAVE 146.2 TLE 23 4.08 SANDRA BACHOO-RAMSAROOP 27.9 TLE 24 4.08 MKS PROPERTIES, LLC 70.9 TLE 25 4.09 MENOMONIE STUDENT HOUSING, LLC TLE 106.8 4.09 502.2 26 ST. JOSEPH'S CATHOLIC CHURCH TLE 121.3 27 4.09 CHRISTINE M NESS TLE SCHLOUG RENTAL PROPERTIES, LLC 28 4.09 TLE 182.7

REVISION DATE 02-07-18	DATE 12/19/17	SCALE, FEET	HWY: LOCAL STREET	R/W PROJECT NUMBER	7996-00-08	PLAT SHEET	4.02
	GRID FACTOR	0 NTS	COUNTY: DUNN	CONSTRUCTION PROJECT NUMBER	7996-00-09		

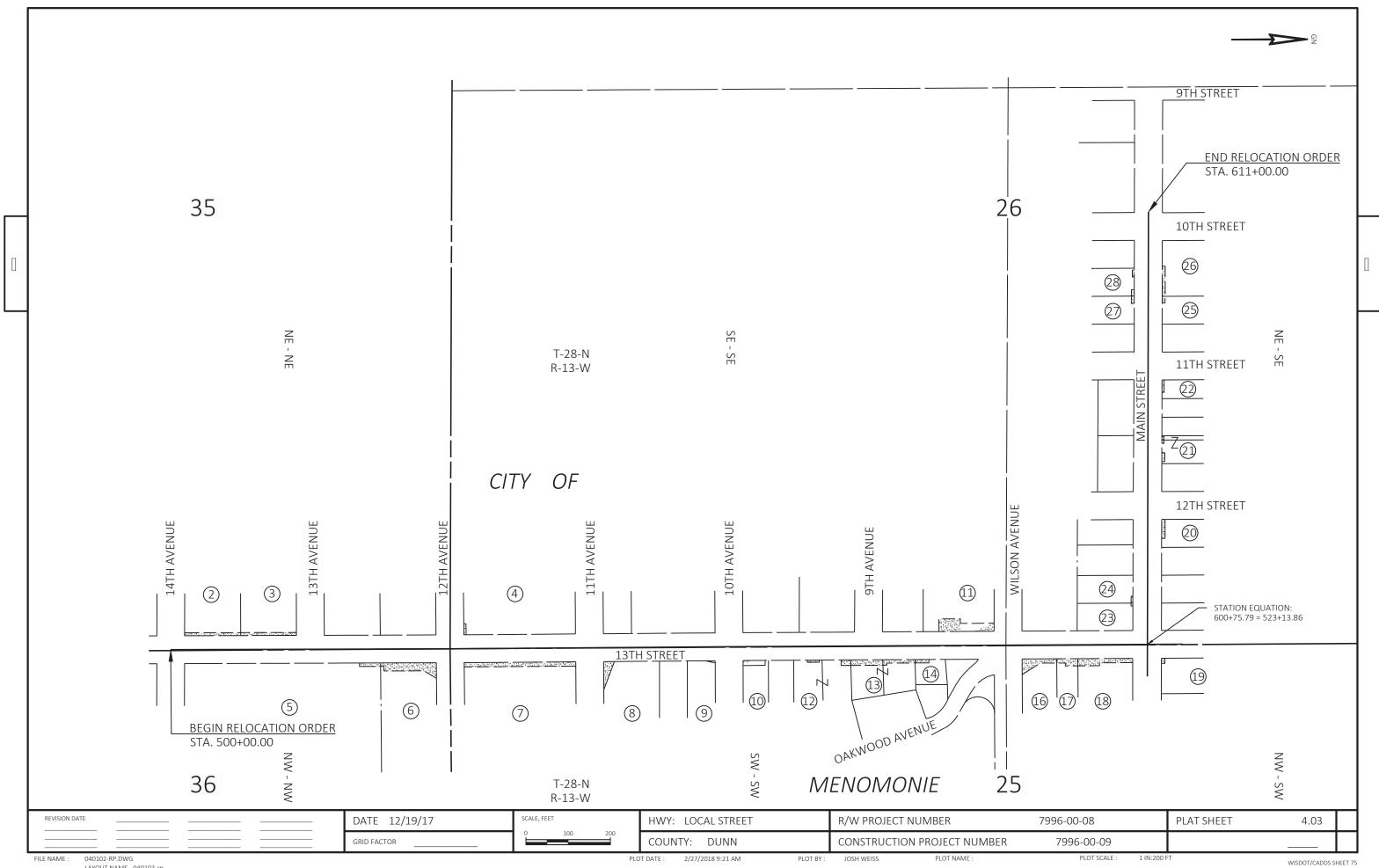
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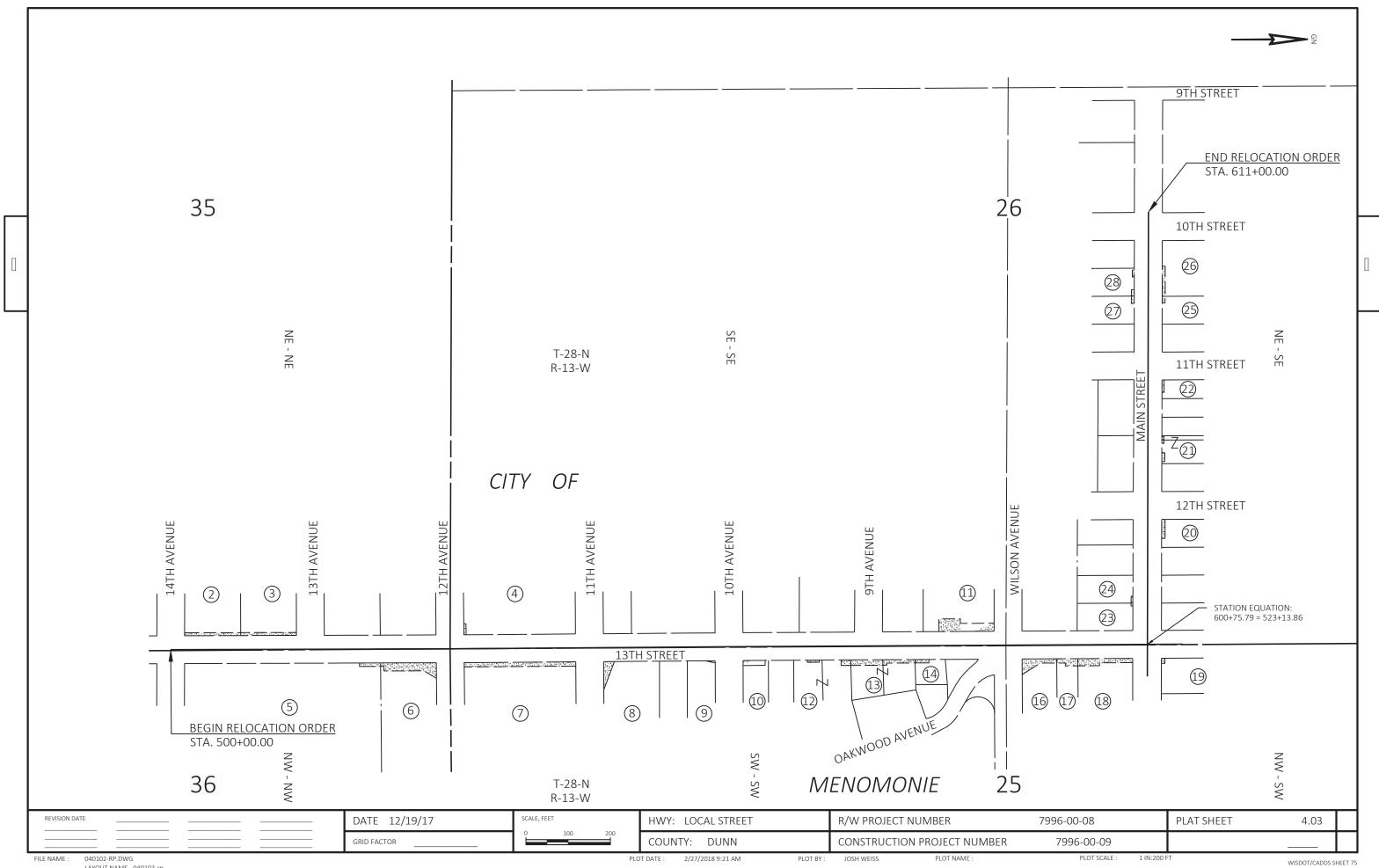
PLOT BY: ERIC LINDAAS

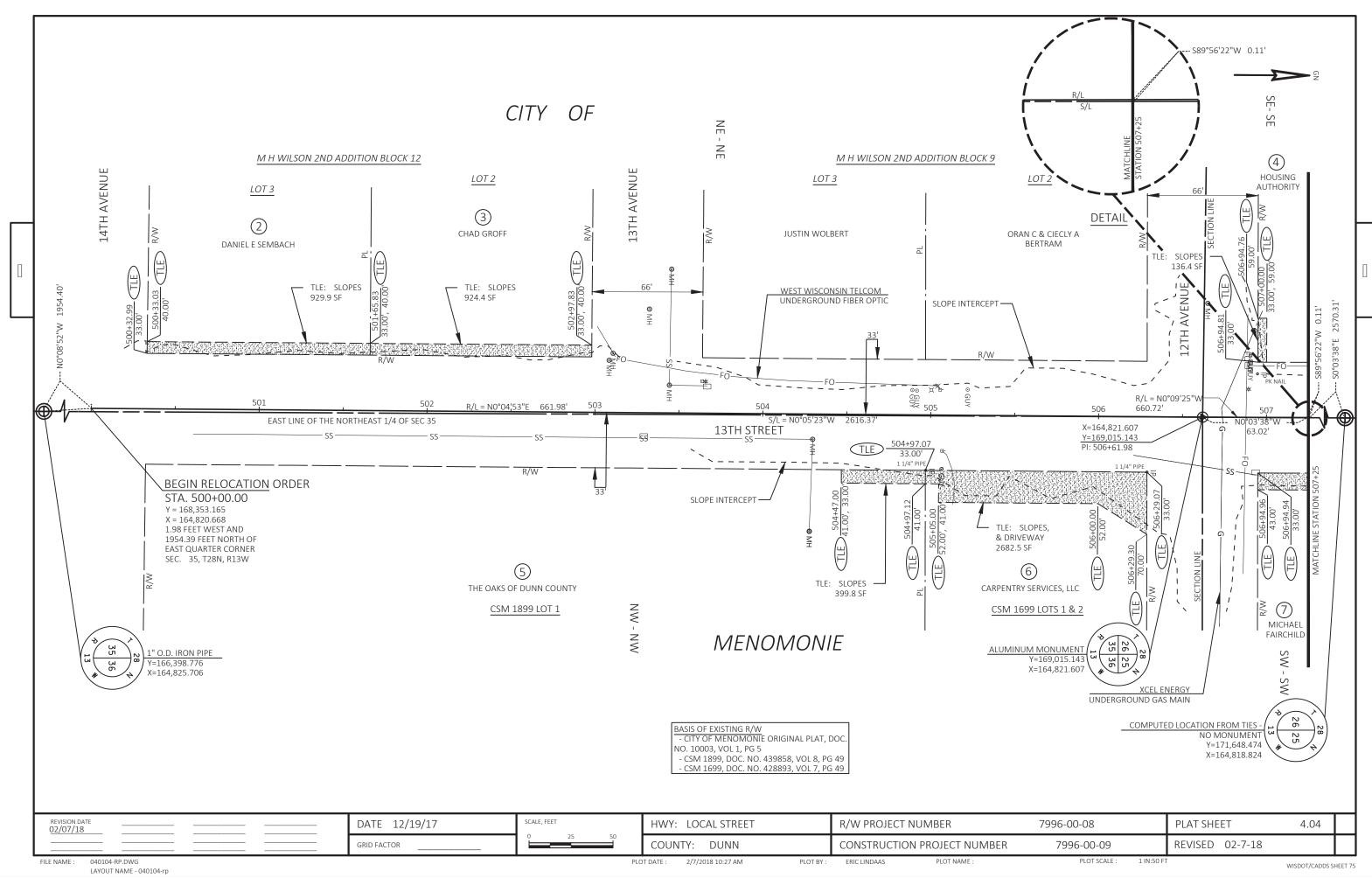
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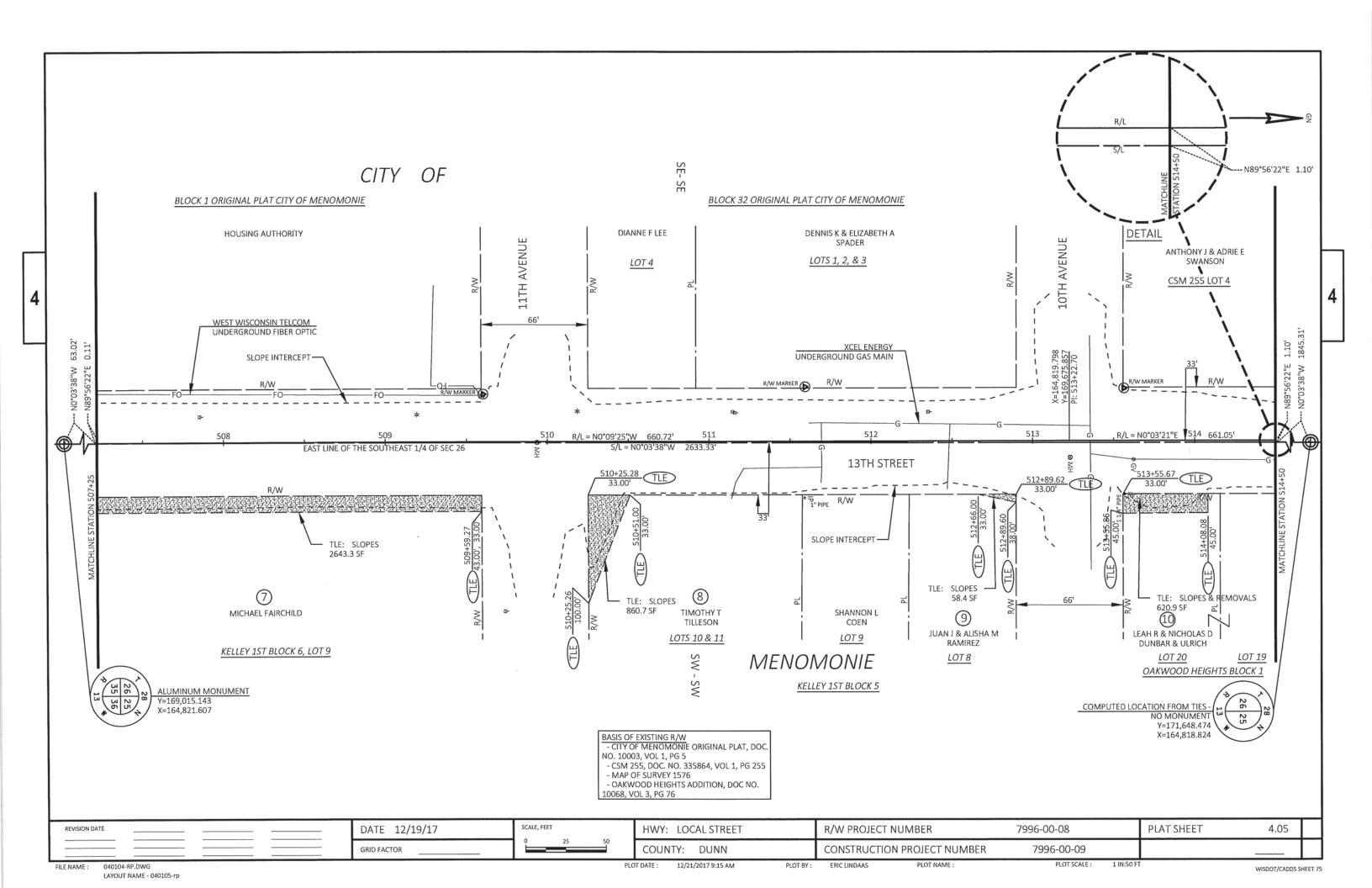
FILE NAME : 040102-RP.DWG LAYOUT NAME - 040102-rp

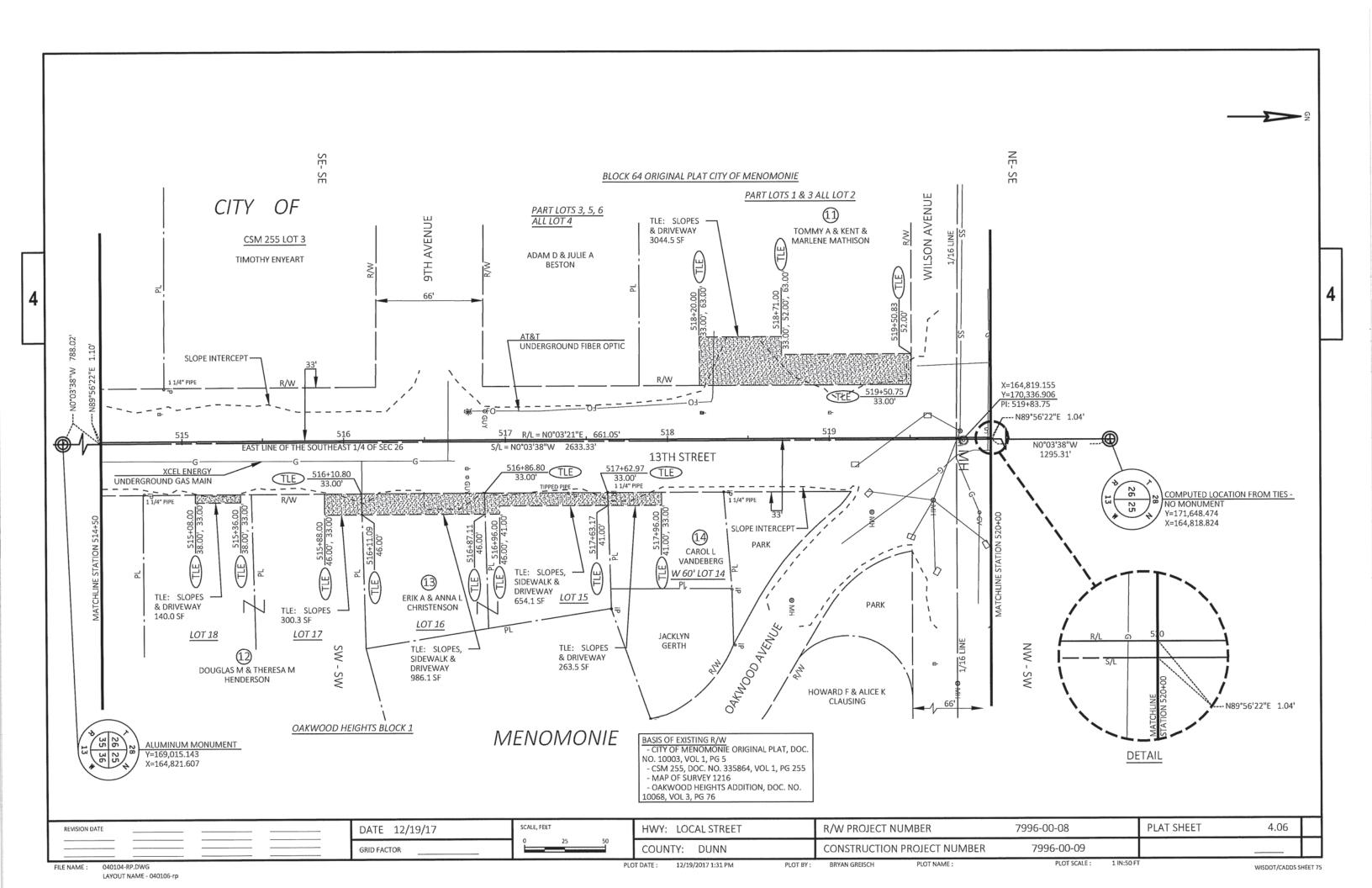
DWG PLOT DATE: 2/7/2018 10:30 AM

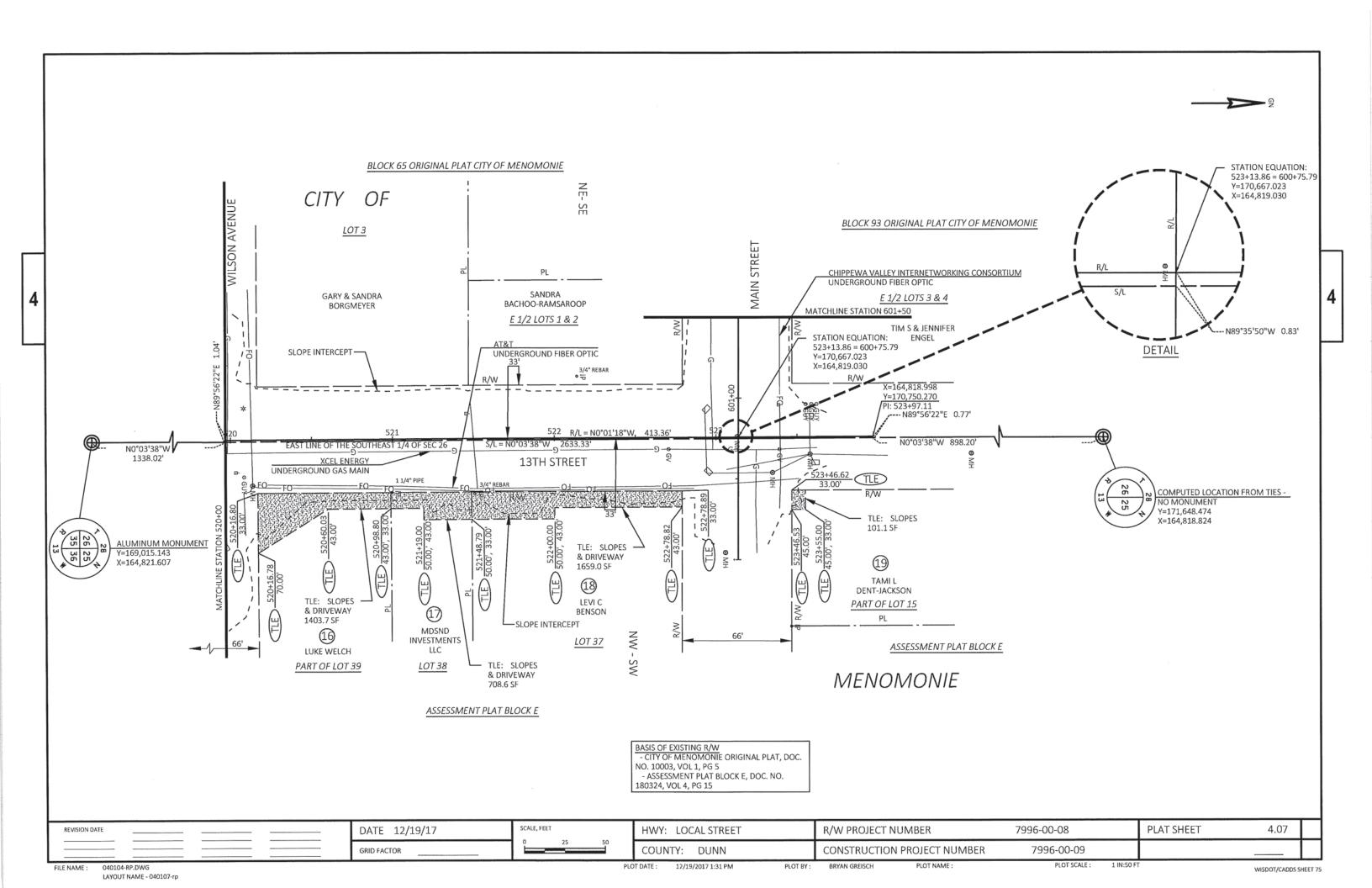


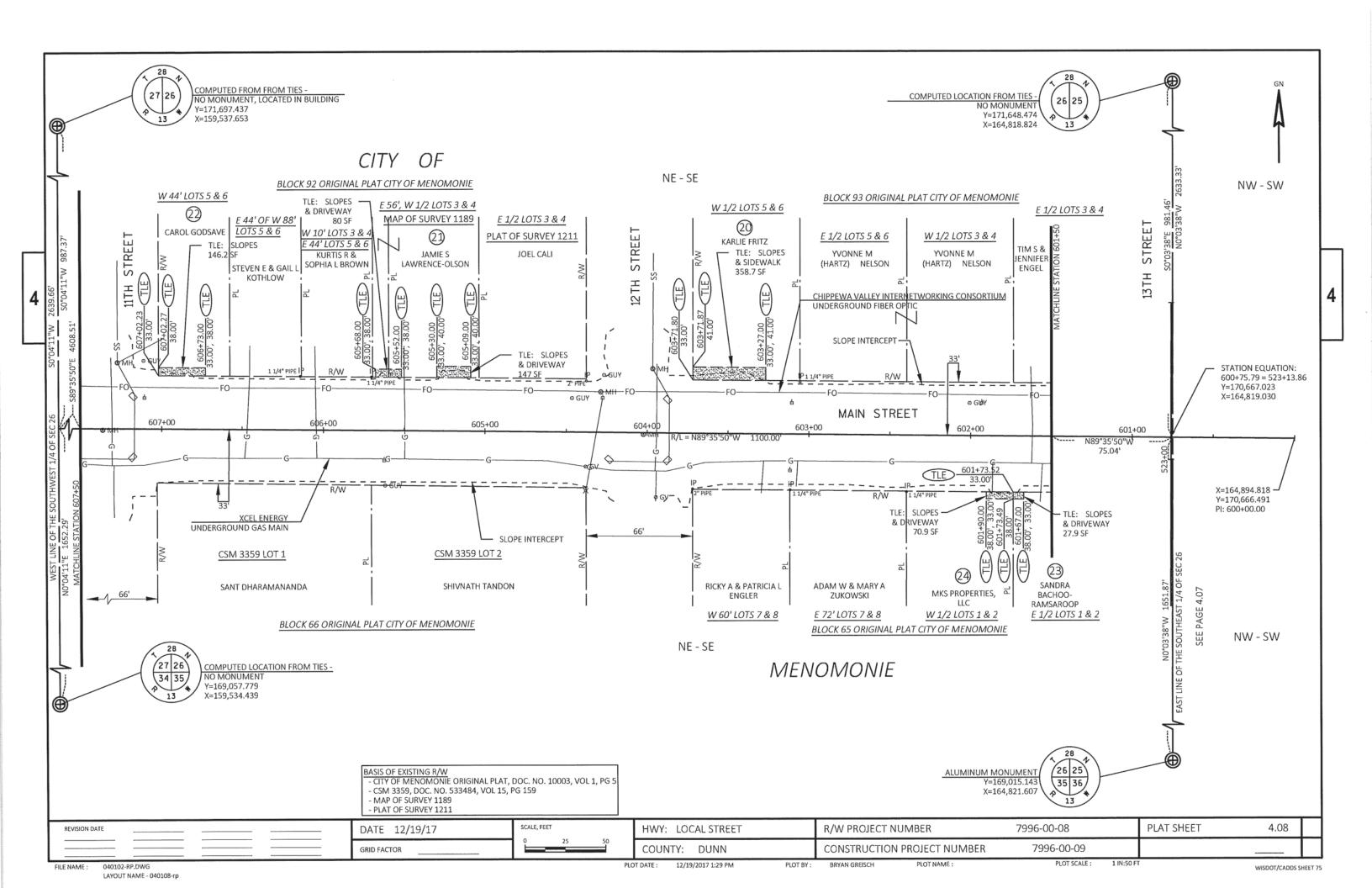


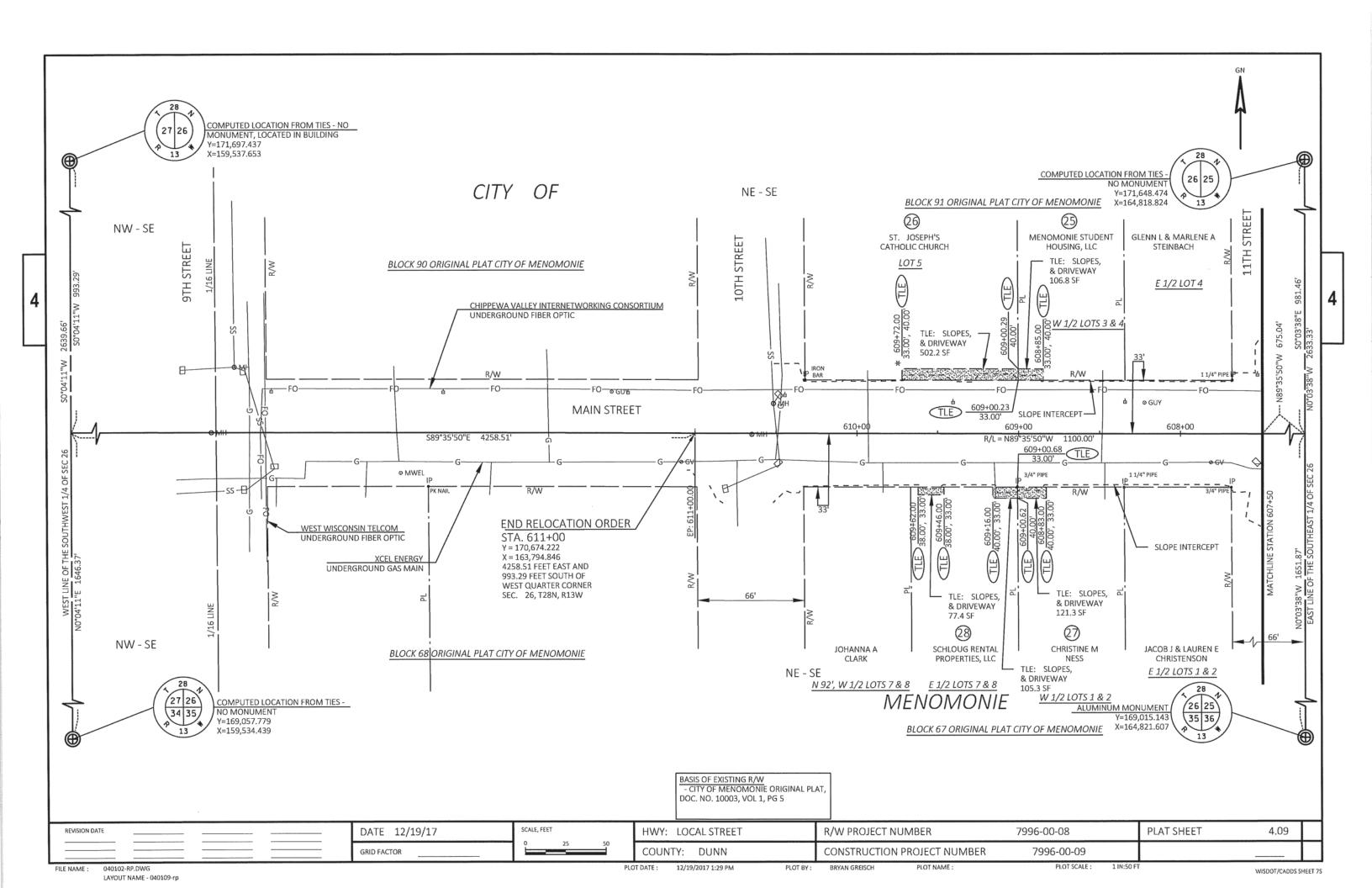


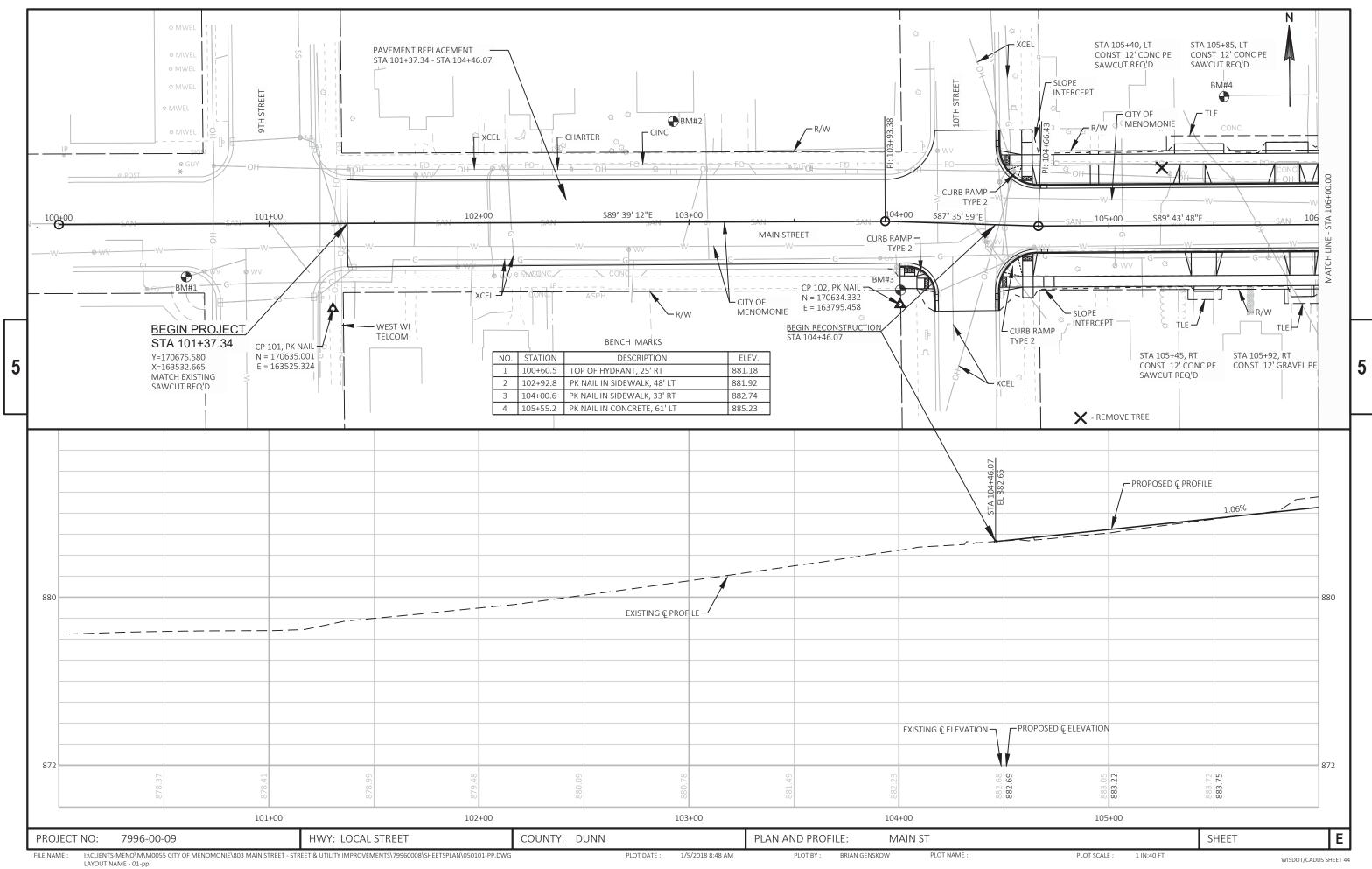


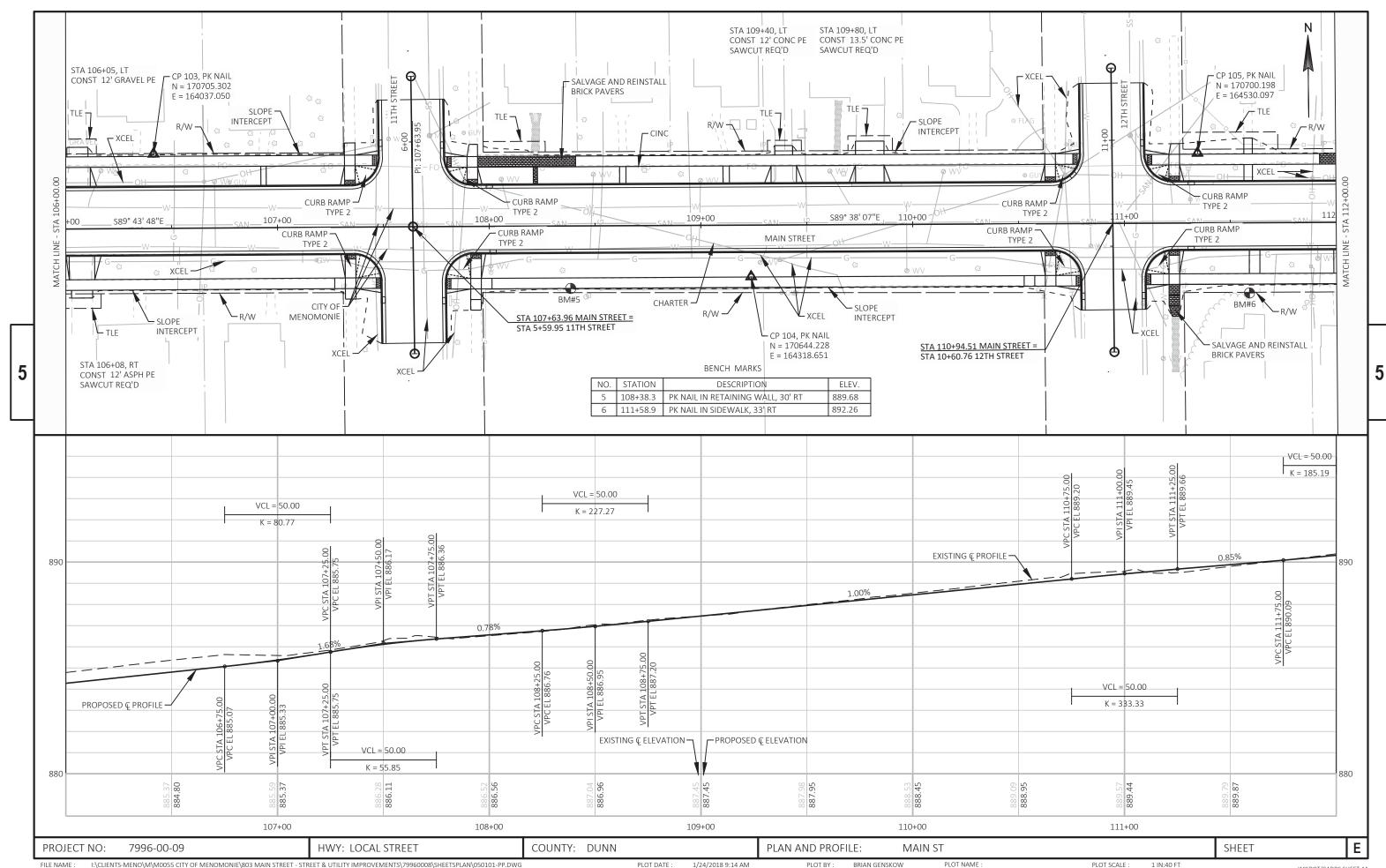


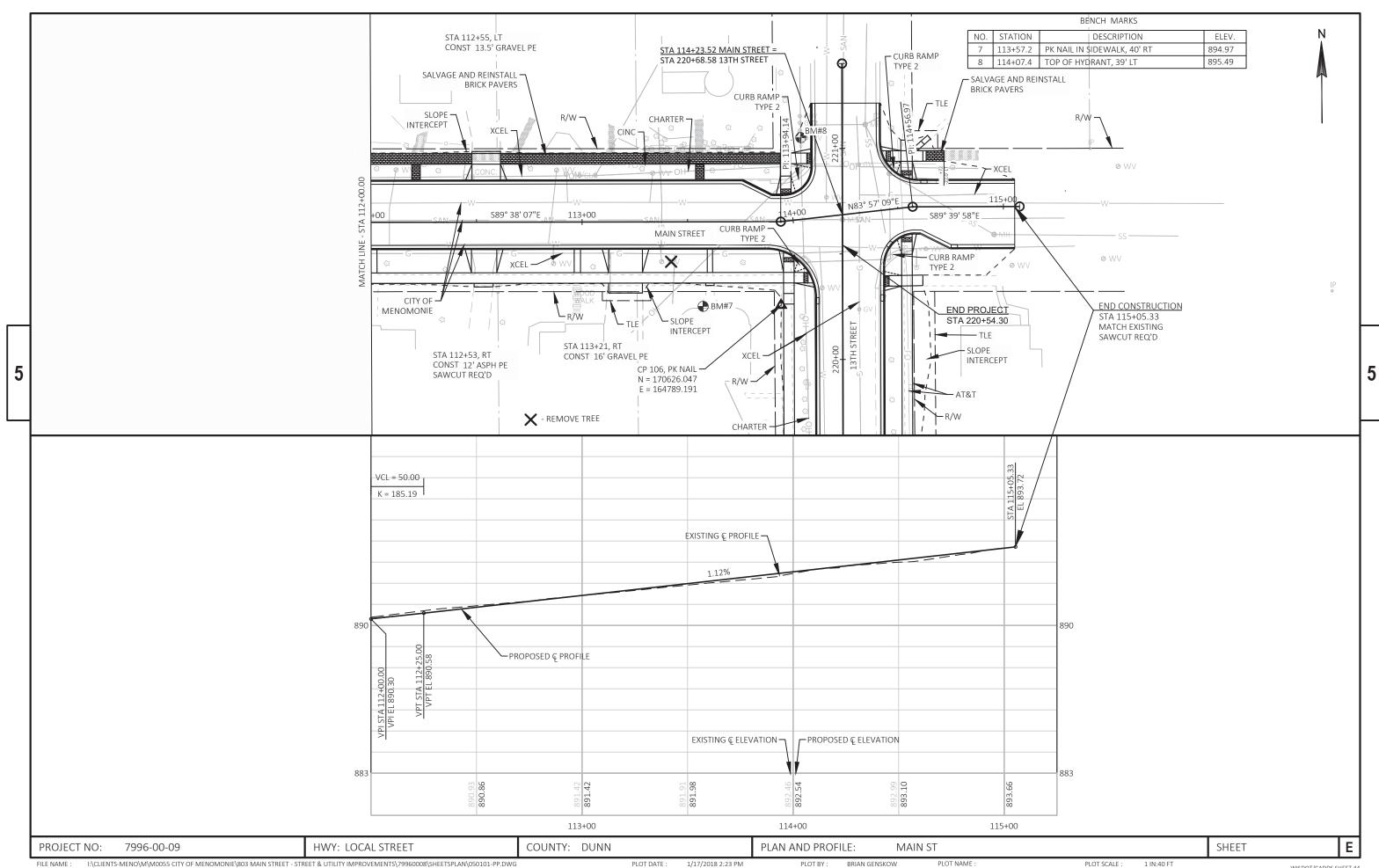


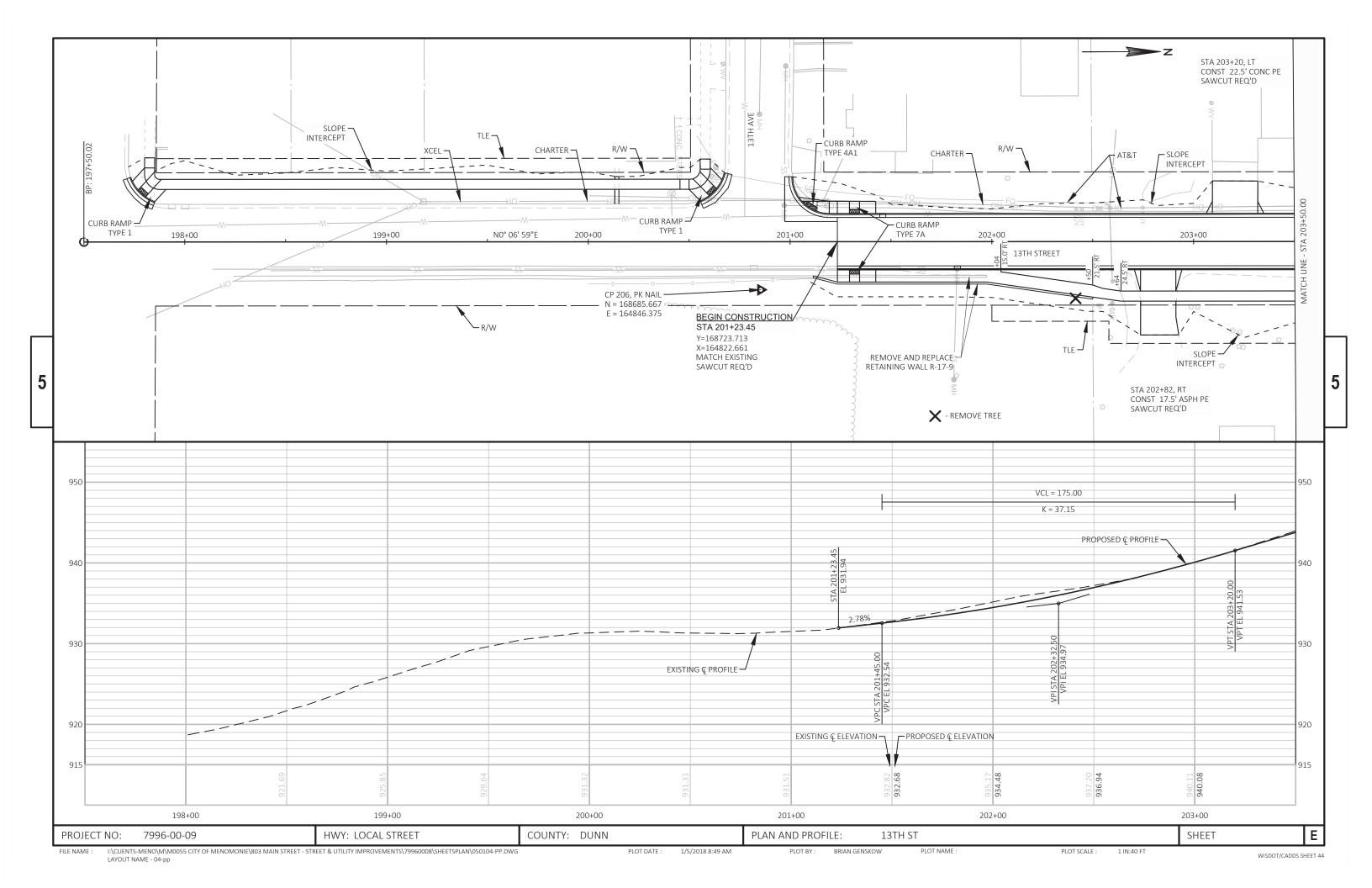


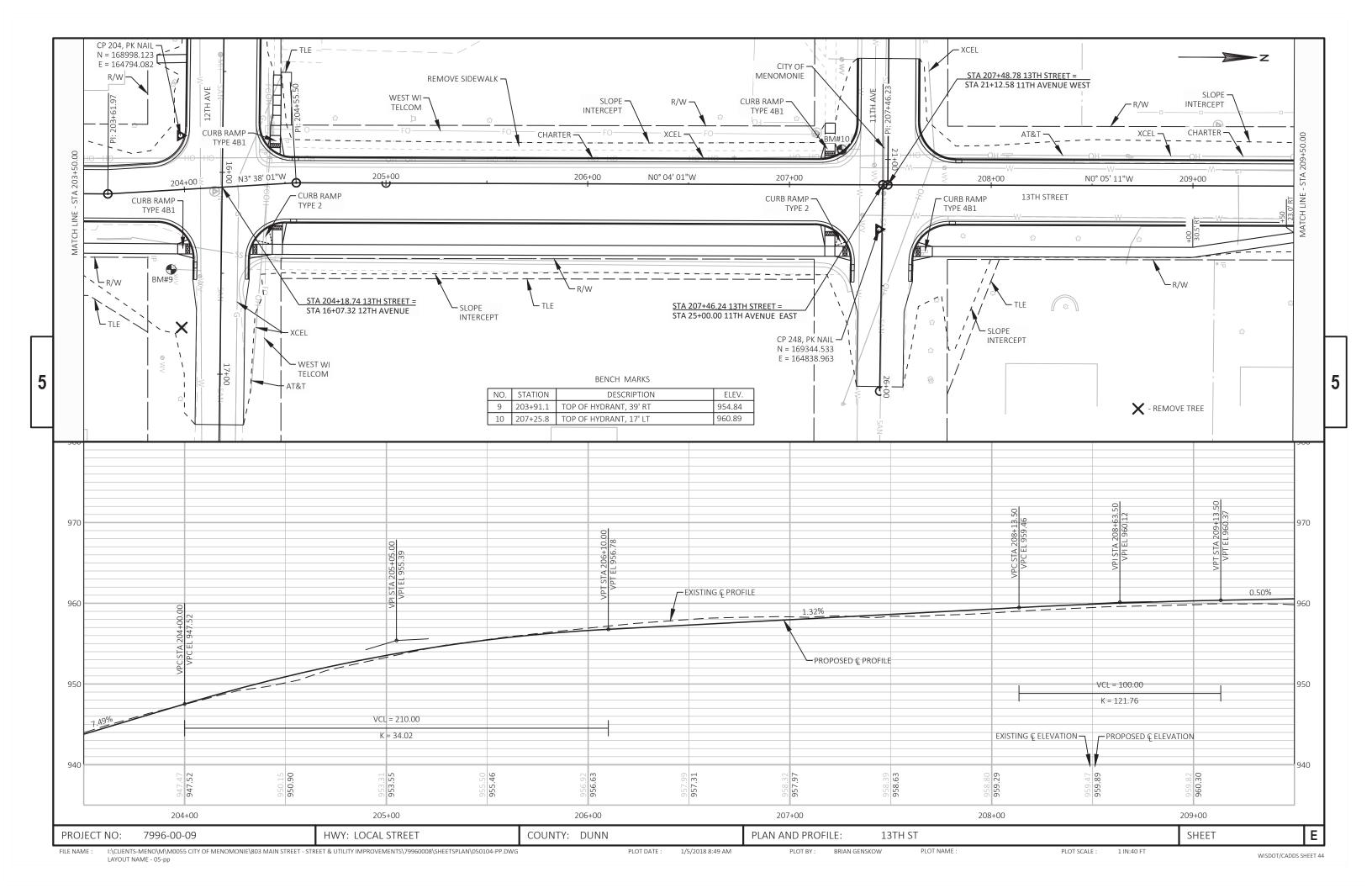


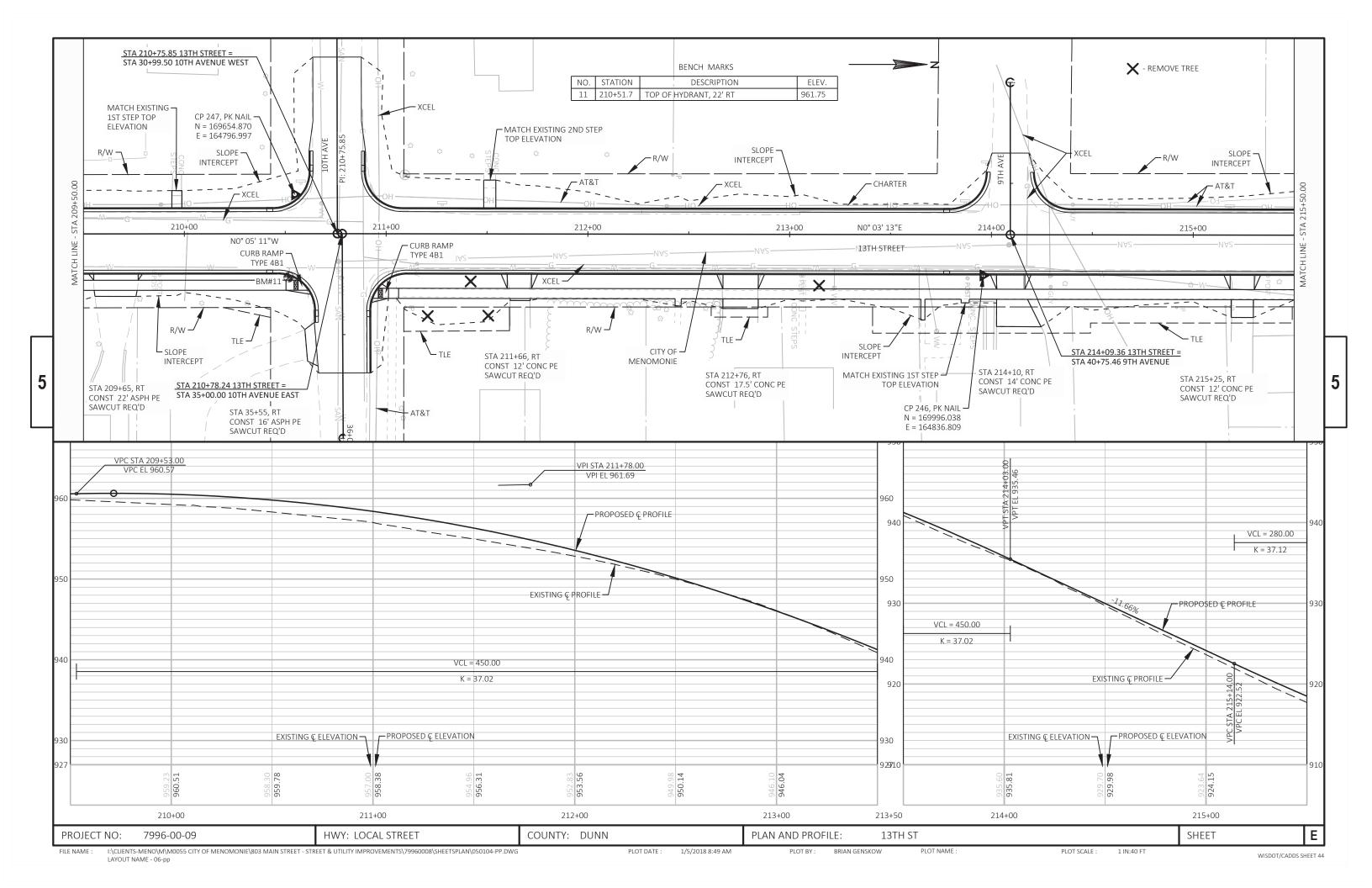


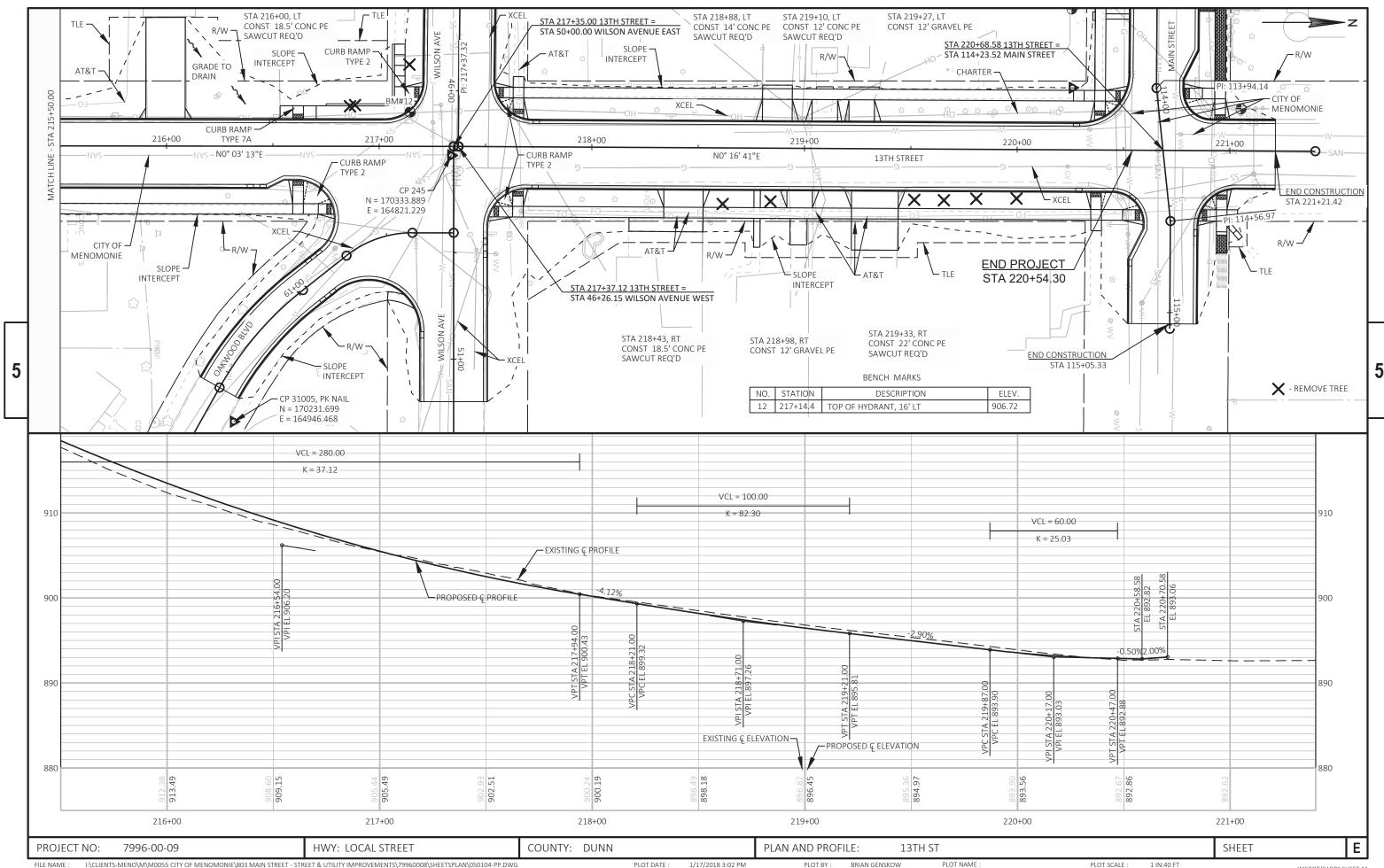


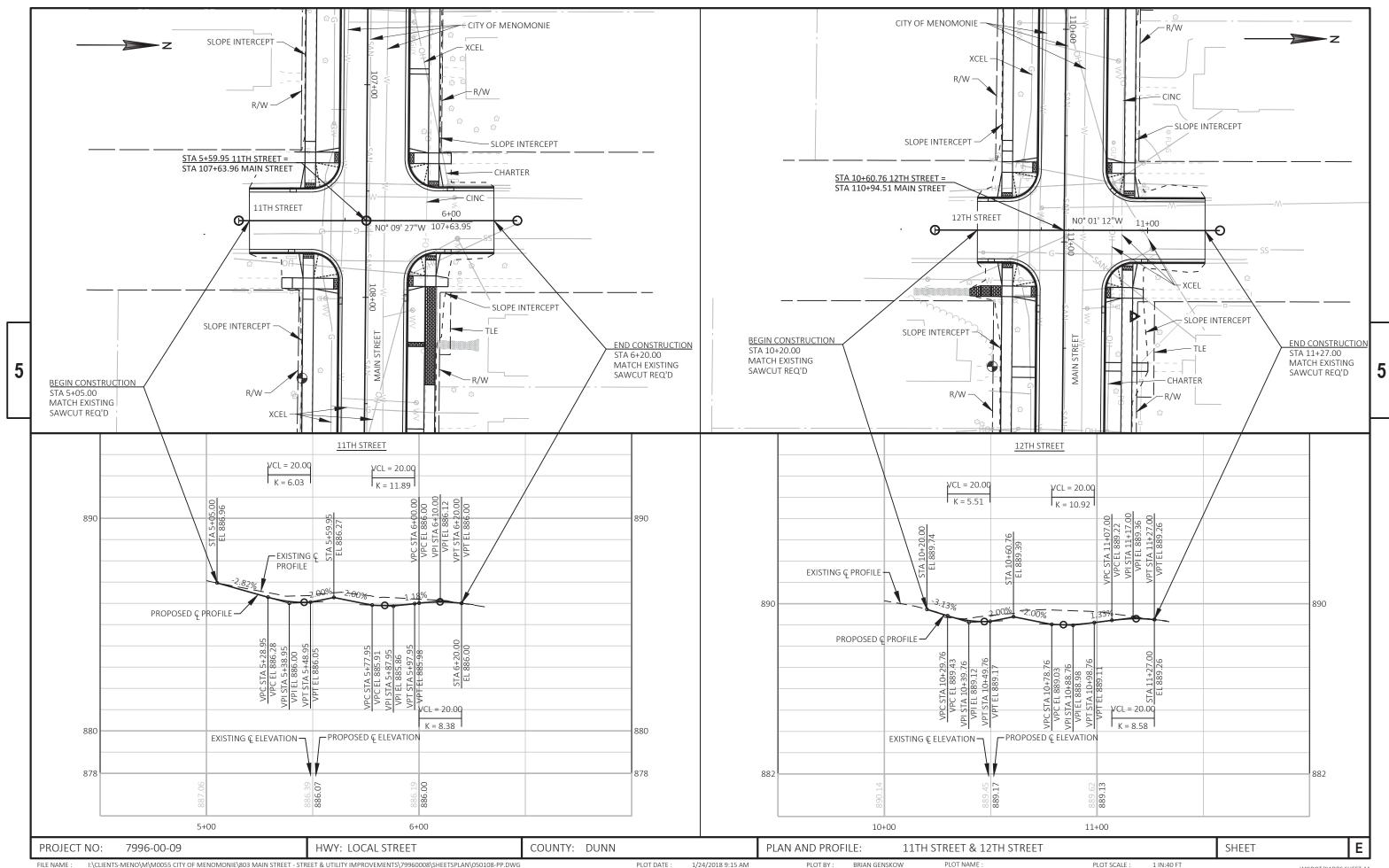


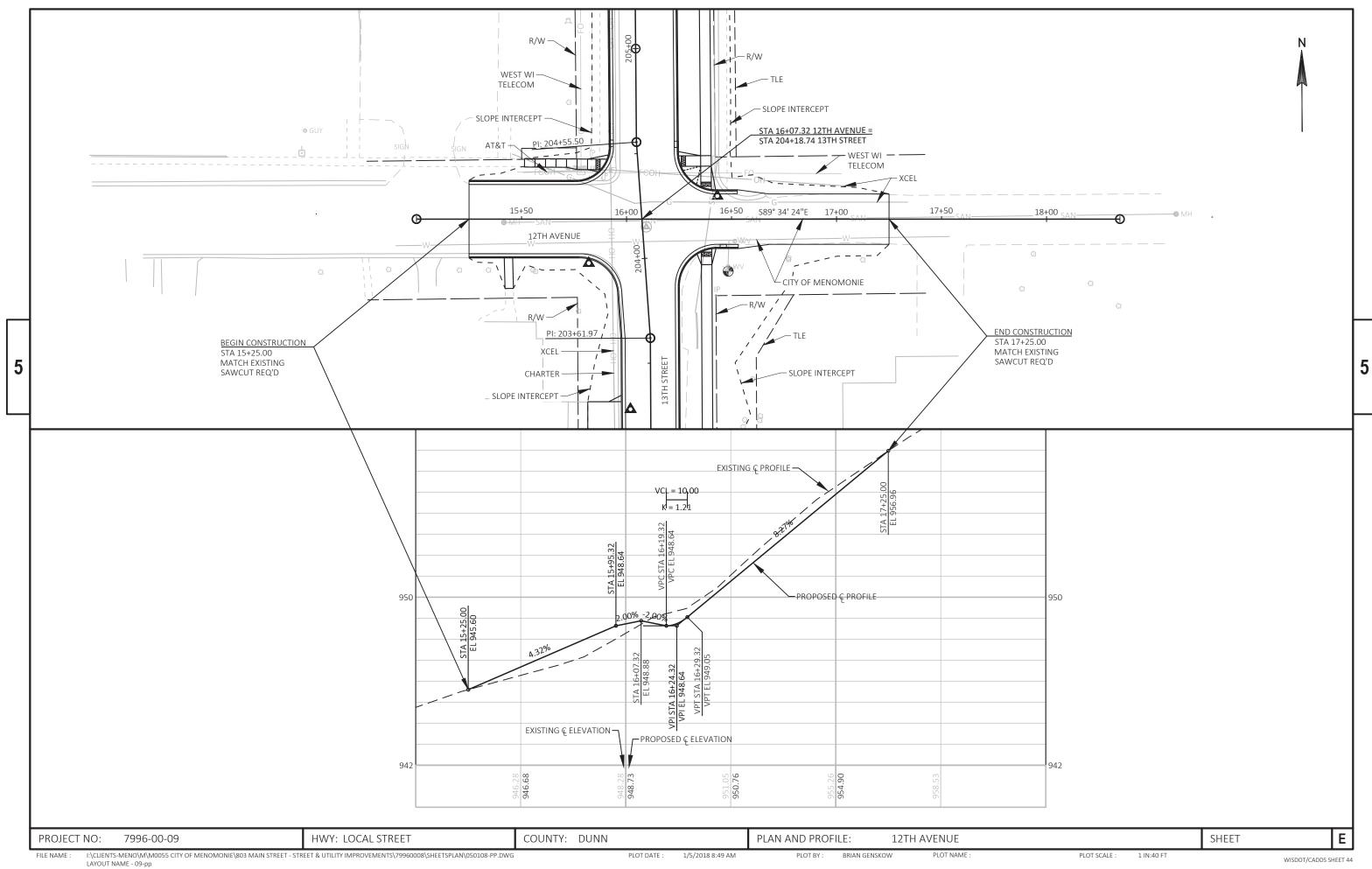


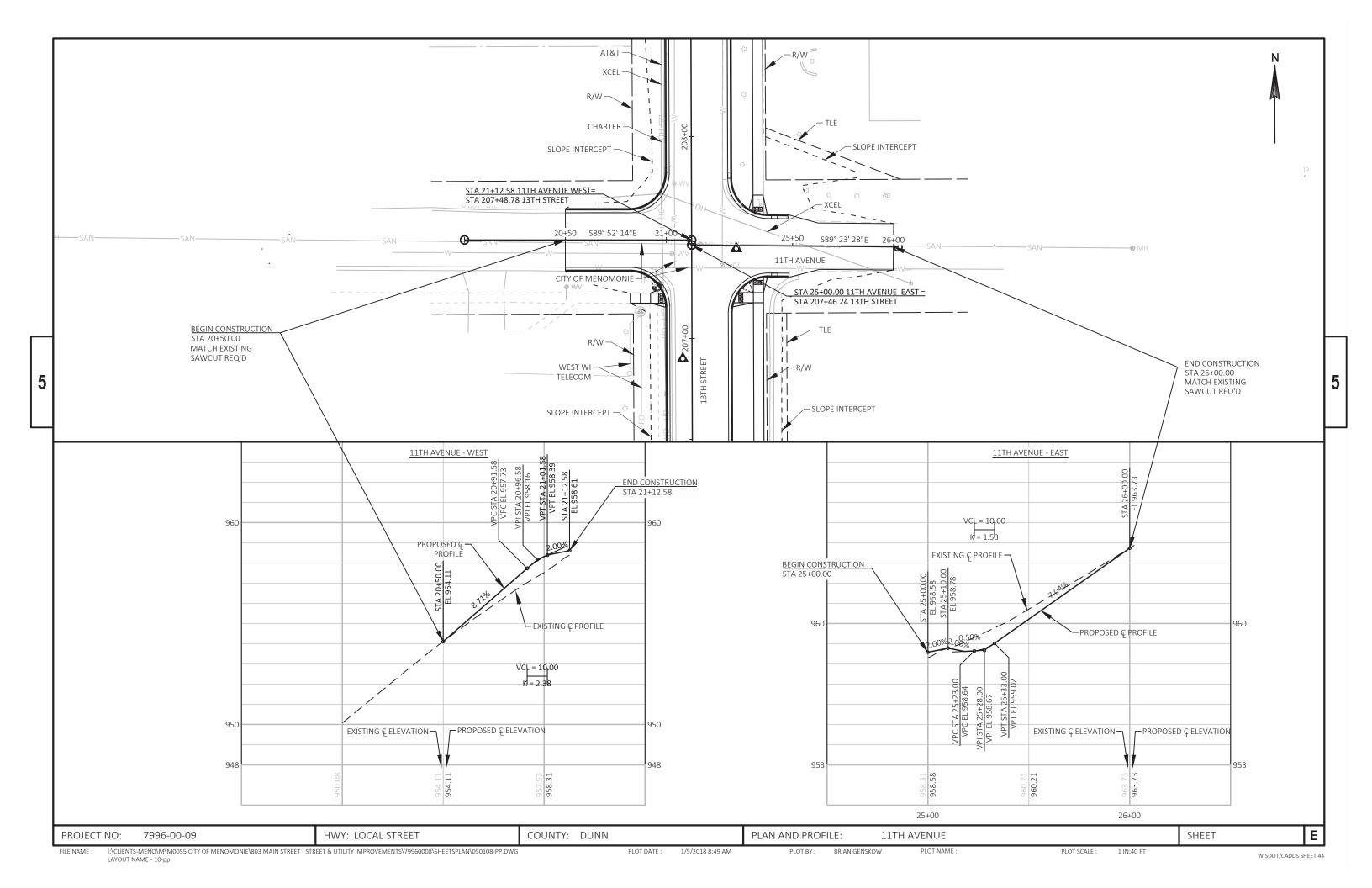


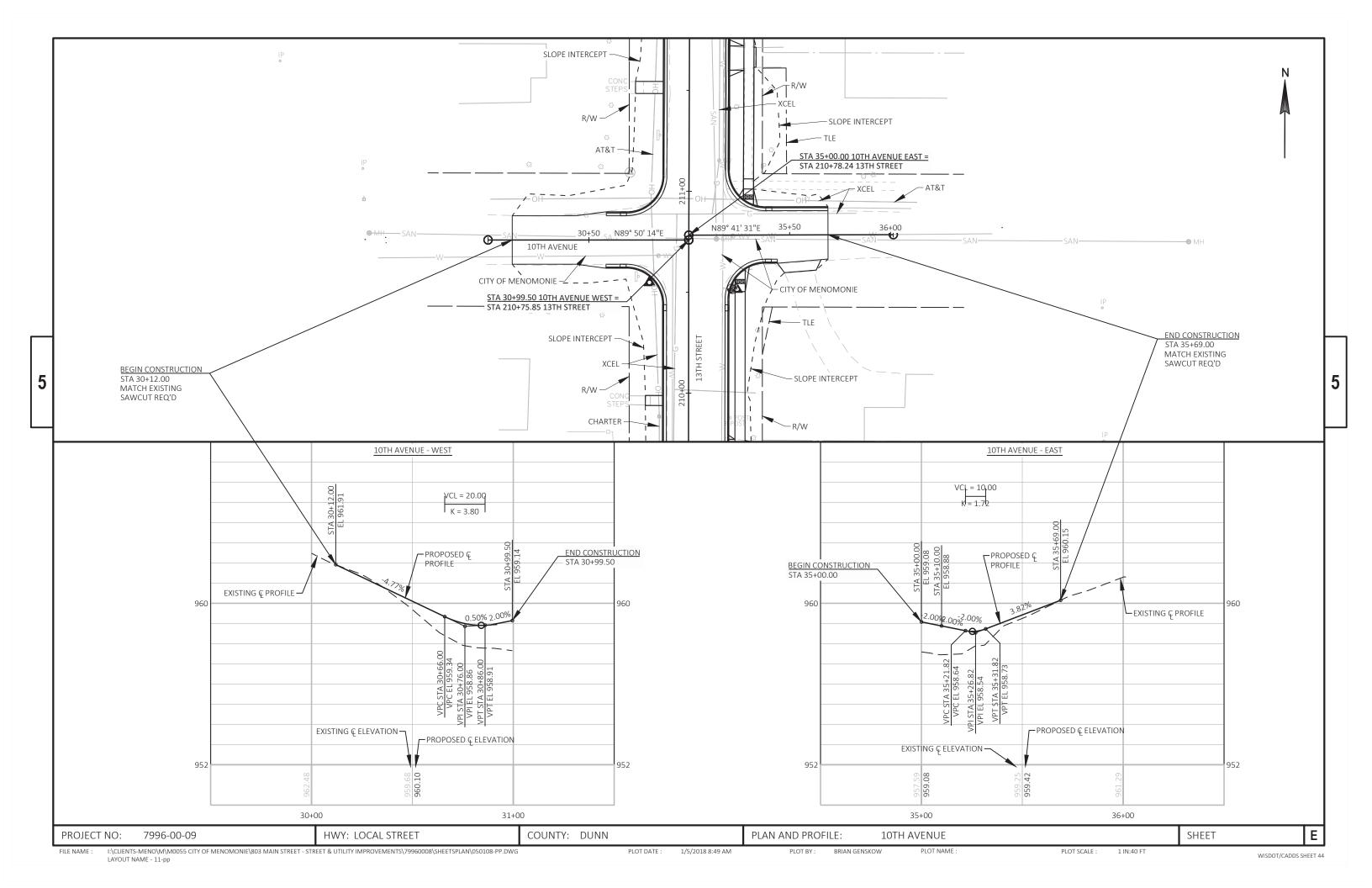


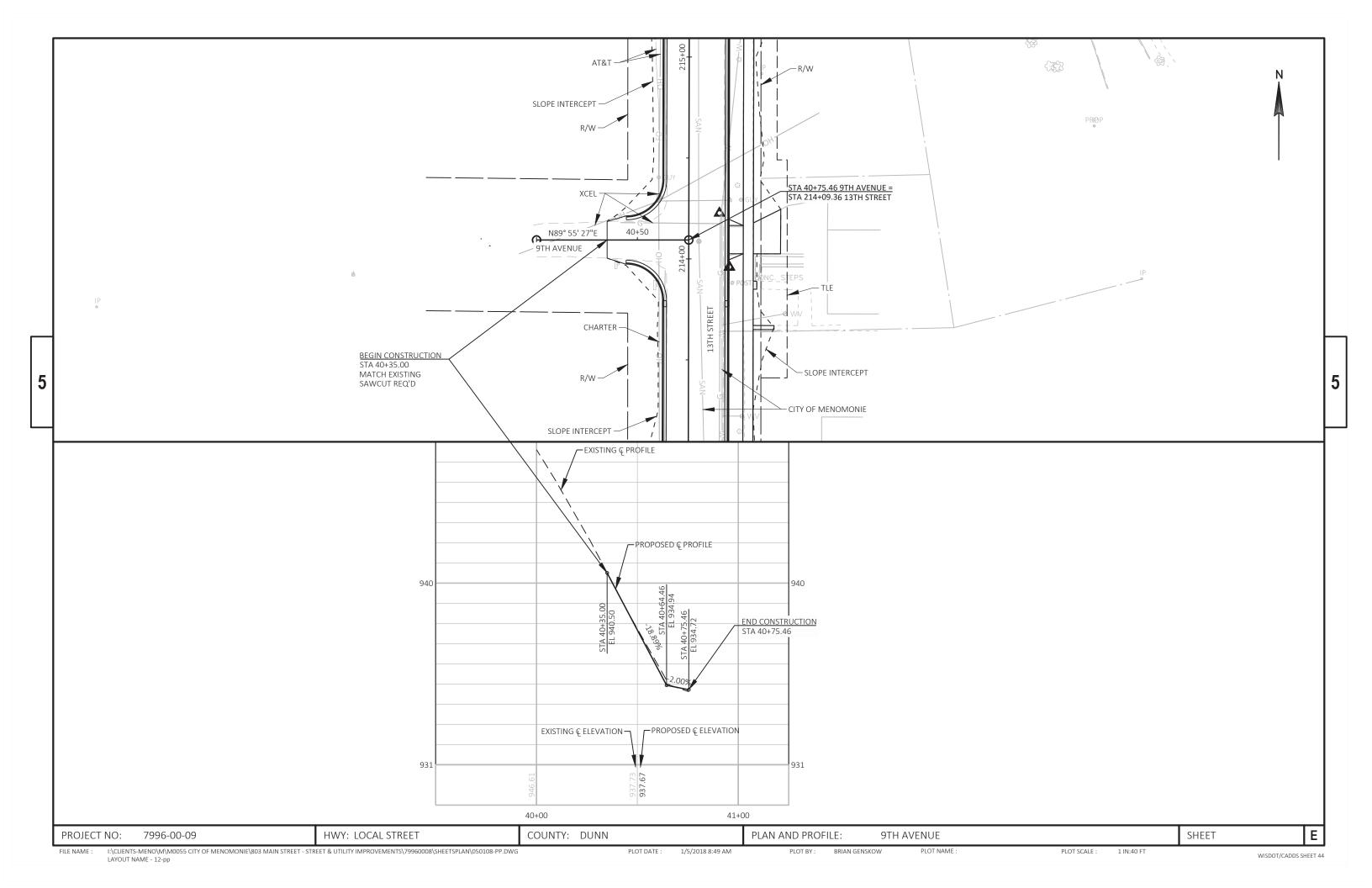


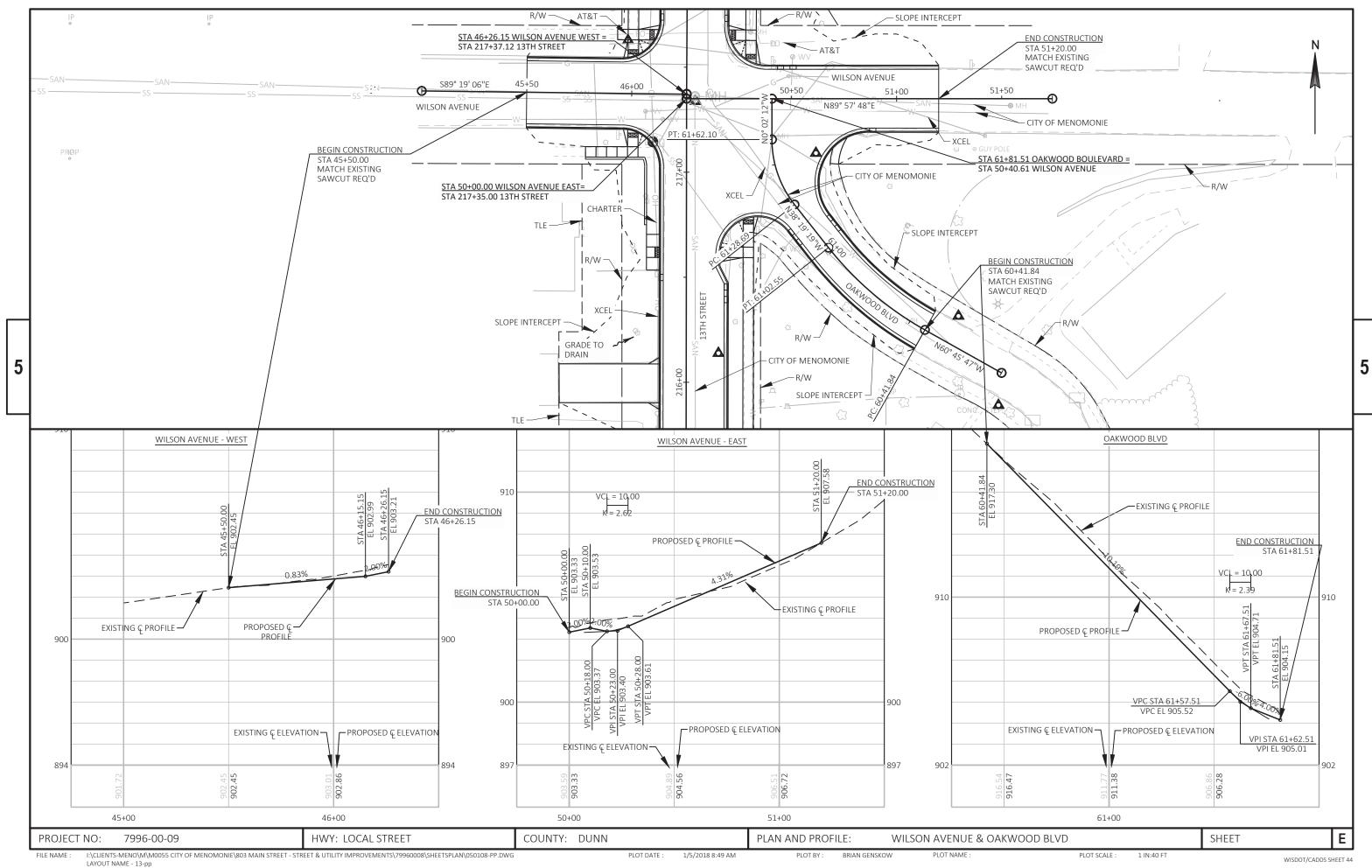






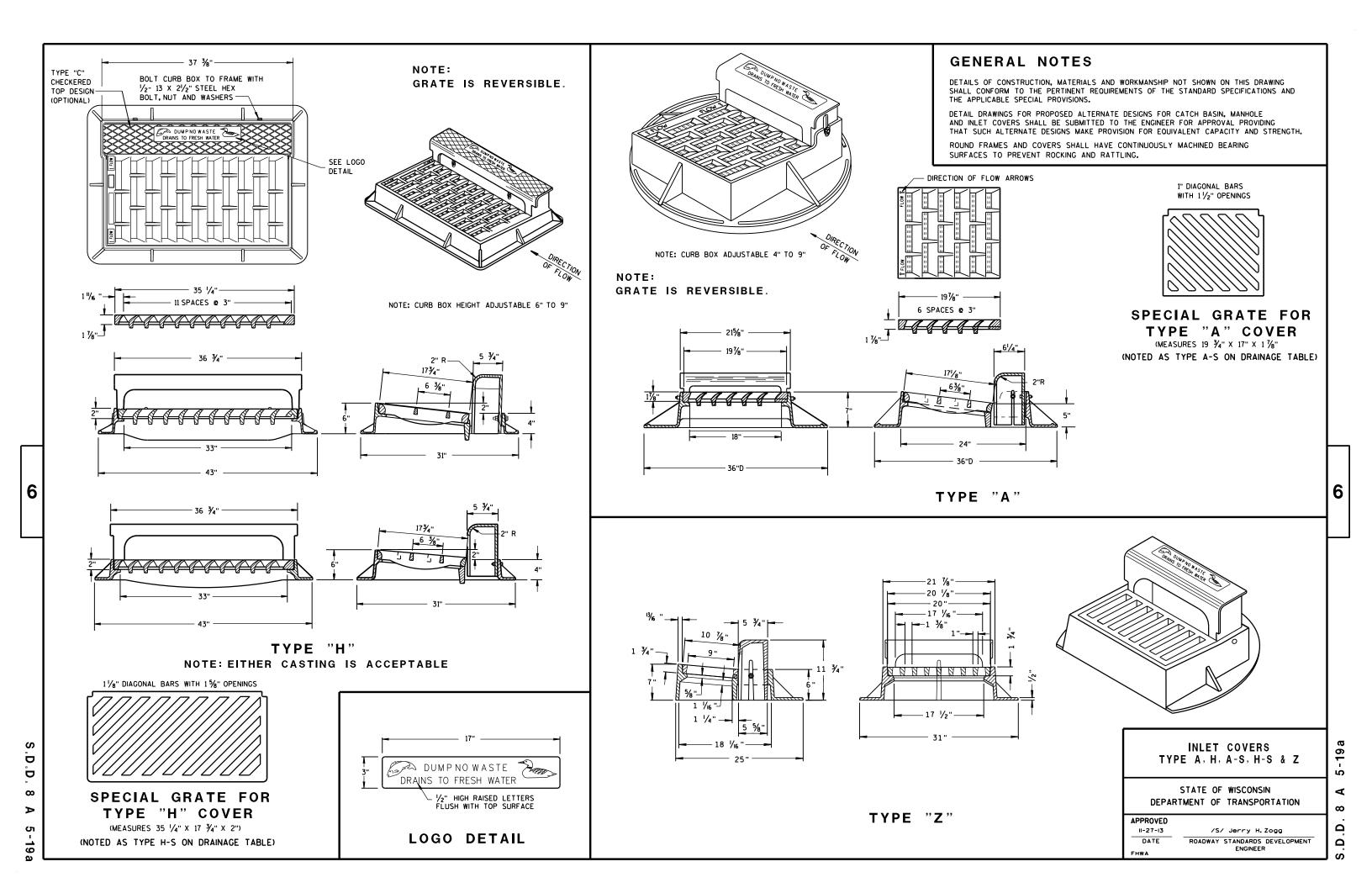


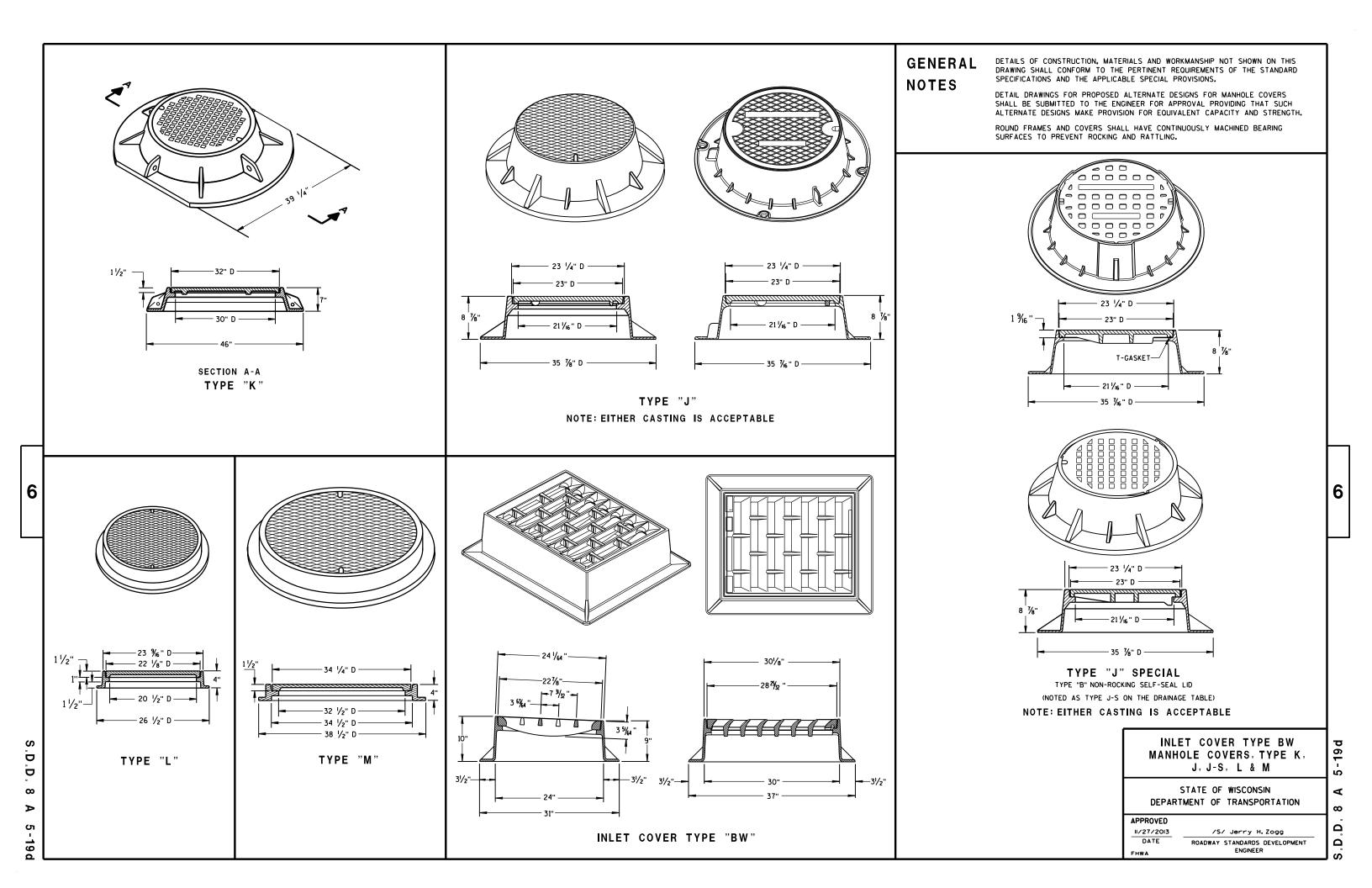




# Standard Detail Drawing List

8A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
8A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
8A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
8B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
8C06-02	INLETS 3-FT AND 4-FT DIAMETER
8C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
8D01-20A	CONCRETE CURB & GUTTER
8D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
8D05-19A	CURB RAMPS TYPES 1 AND 1-A
8D05-19B	CURB RAMPS TYPES 2 AND 3
8D05-19C	CURB RAMPS TYPES 4A AND 4A1
18D05-19D	CURB RAMPS TYPE 4B AND 4B1
8D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
8D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
18D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
8D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
8D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
8E10-02	INLET PROTECTION TYPE A, B, C AND D
8F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
5C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
5C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
5C03-04	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
5C07-14E	PAVEMENT MARKING FOR BIKE LANES
5C08-18A	LONGITUDINAL MARKING (MAINLINE)
5C29-05B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
5C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
5D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
5D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
5D38-02B	ATTACHMENT OF SIGNS TO POSTS

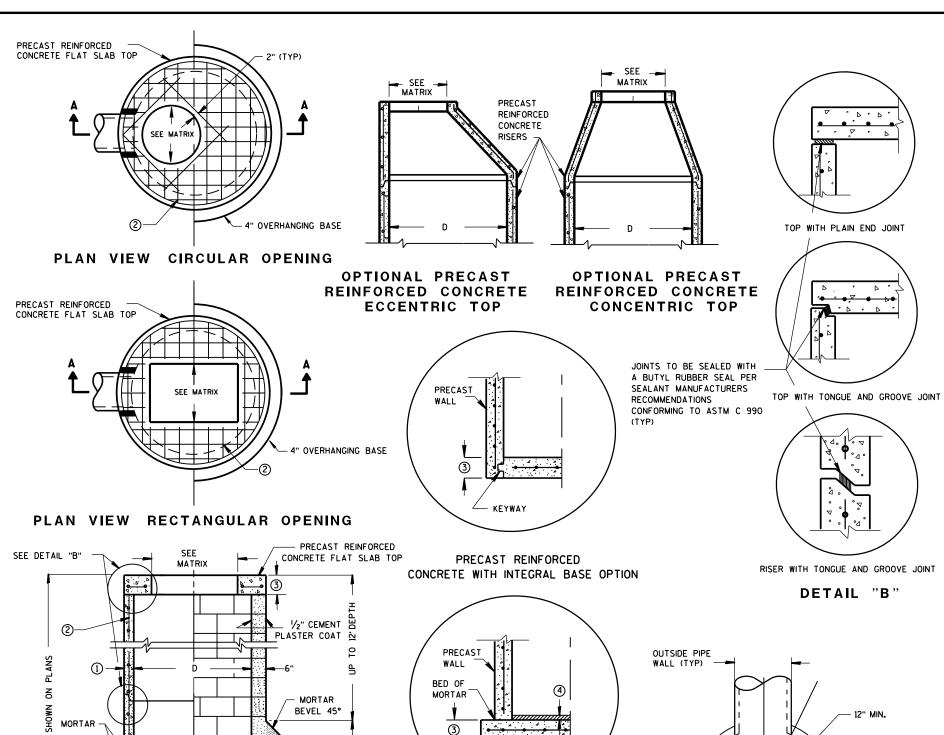






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2 COURSES

4

SECTION A-A

.Z.

CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER

FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

CONCRETE BLOCK WITH CAST-

REINFORCED CONCRETE BASE ②

IN-PLACE OR PRECAST

OUTSIDE PIPE WALL (TYP)

DETAIL "C"

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 CATCH BASIN 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 CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE 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  $\frac{1}{2}$  INCH 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.

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

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

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

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

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

- ① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.
- (2) FOR PRECAST CATCH BASINS 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 OF 8".
- 4 1" CONCRETE KEY POURED AFTER INSTALLATION. 2'SUMP MEASURED FROM TOP OF KEY.

#### CATCH BASIN COVER OPENING MATRIX

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

#### PIPE MATRIX

CATCH BASIN	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	30						

4-FT, 5-FT AND 6-FT DIAMETER

CATCH BASINS 3-FT,

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016

DATE

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

CA

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

D.D. 8 A 8-2

SEE DETAIL "A"

PRECAST REINFORCED

CONCRETE WITH

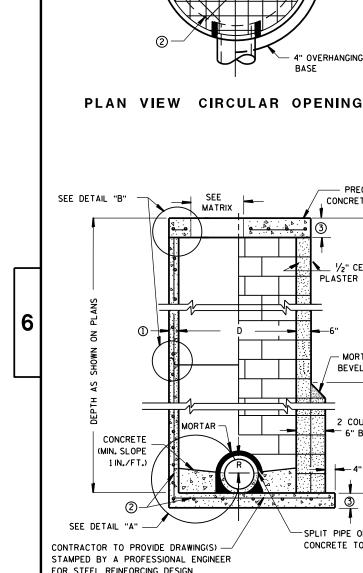
MONOLITHIC BASE

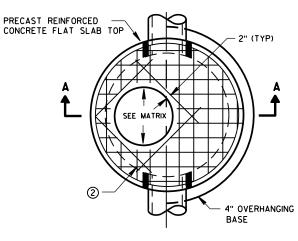


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SEE

MATRIX

SEE __ MATRIX **PRECAST** REINFORCED CONCRETE RISERS

OPTIONAL PRECAST REINFORCED CONCRETE **ECCENTRIC TOP** 

PRECAST

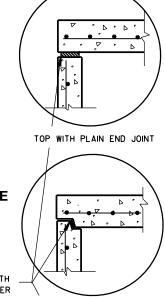
WALL

PRECAST REINFORCED

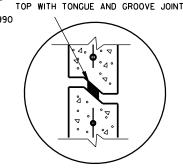
CONCRETE FLAT SLAB TOP

**CONCRETE BASE 2** 

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

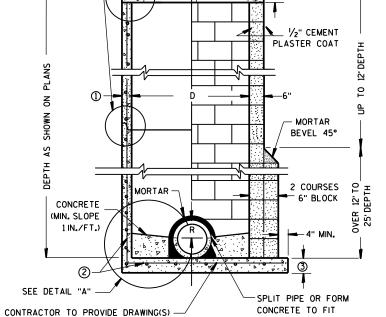


JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

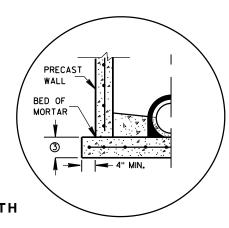


RISER WITH TONGUE AND GROOVE JOINT

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

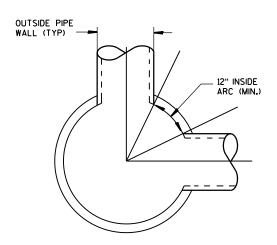


PRECAST REINFORCED

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**

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

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

### MANHOLE COVER OPENING MATRIX

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

#### PIPE MATRIX

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

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

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

ELOPMENT

CIRCULAR INLETS W/ FLAT TOP

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SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

RISER WITH TONGUE AND GROOVE JOINT

**DETAIL** "B" DETAIL "A"

# INLETS 3-FT AND 4-FT DIAMETER

#### **GENERAL NOTES**

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

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

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

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

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

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

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

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

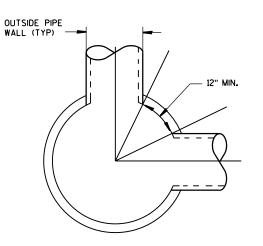
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

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

#### INLET COVER OPENING MATRIX

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



DETAIL "C"

#### PIPE MATRIX

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

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

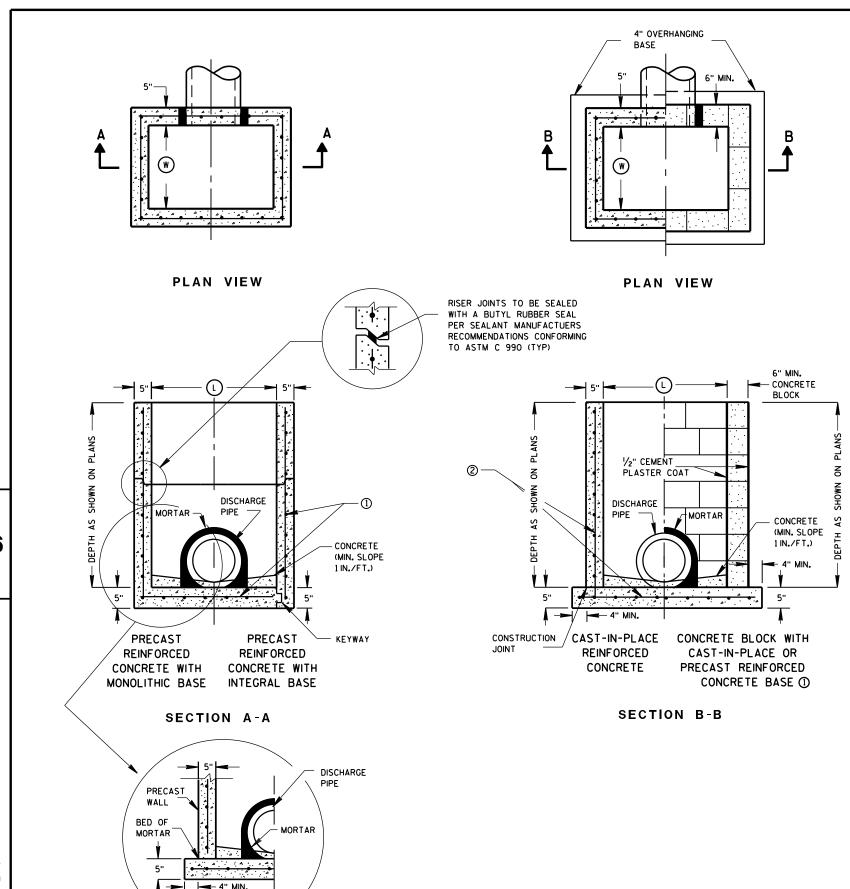
APPROVED

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

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## **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

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

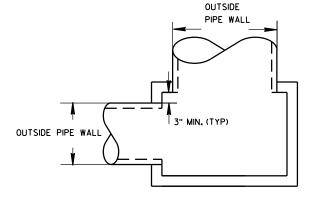
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

#### INLET COVER MATRIX

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

#### PIPE MATRIX

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



DETAIL "A"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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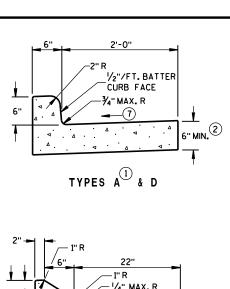
Sept...2016 /S/ Rodney Taylor

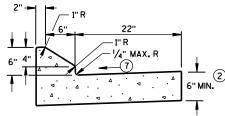
DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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

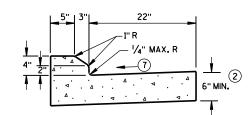
SEPARATE PRECAST REINFORCED

**CONCRETE BASE OPTION** 

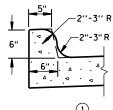




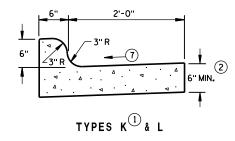
6" SLOPED CURB TYPES G 4 J



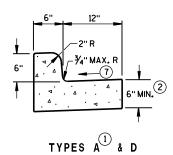
4" SLOPED CURB TYPES G 4 J



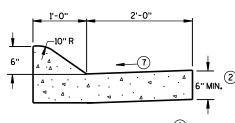
TYPES K (1) & L (OPTIONAL CURB SHAPE)



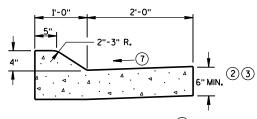
**CONCRETE CURB & GUTTER 30"** 



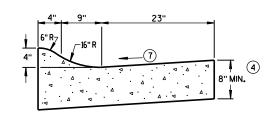
**CONCRETE CURB & GUTTER 18"** 



6" SLOPED CURB TYPES A & D

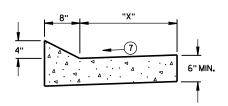


4" SLOPED CURB TYPES A D



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

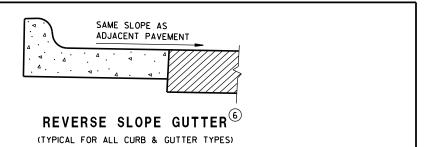
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## CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



**CONCRETE CURB & GUTTER** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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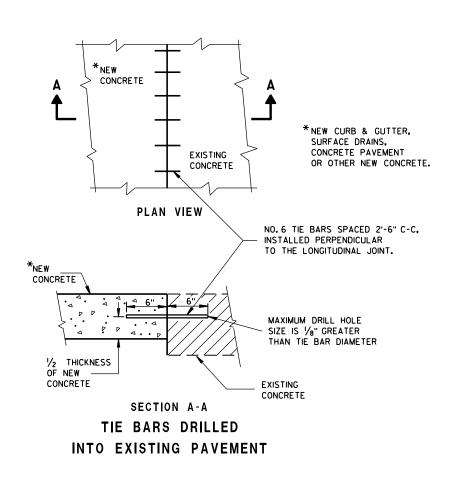
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^{*} BIKE LANE IS NOT SHOWN.

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

CONTRACTION PAVEMENT

**END SECTION CURB & GUTTER** 



### **GENERAL NOTES**

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

ADJACENT

PAVEMENT

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

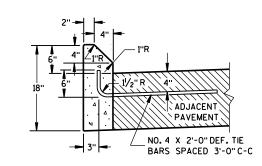
BARS SPACED 3'-0" C-C

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

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

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

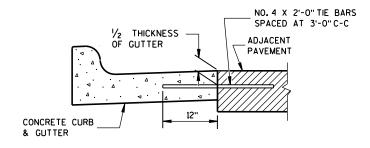
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL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



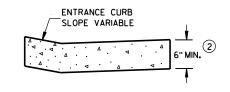
TYPES A D

TYPES G 4 J

#### **CONCRETE CURB**



TYPICAL TIE BAR LOCATION 1



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

## CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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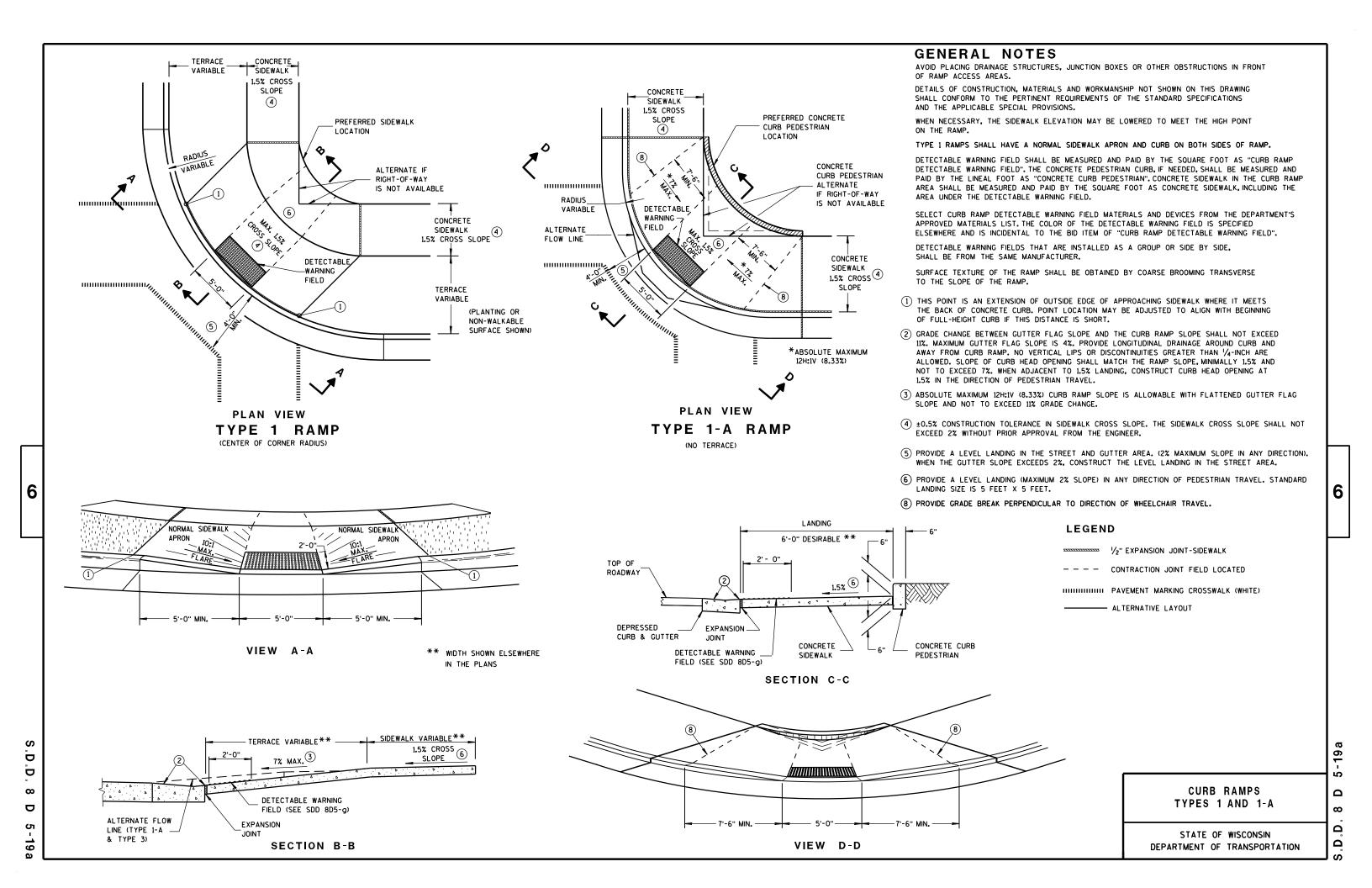
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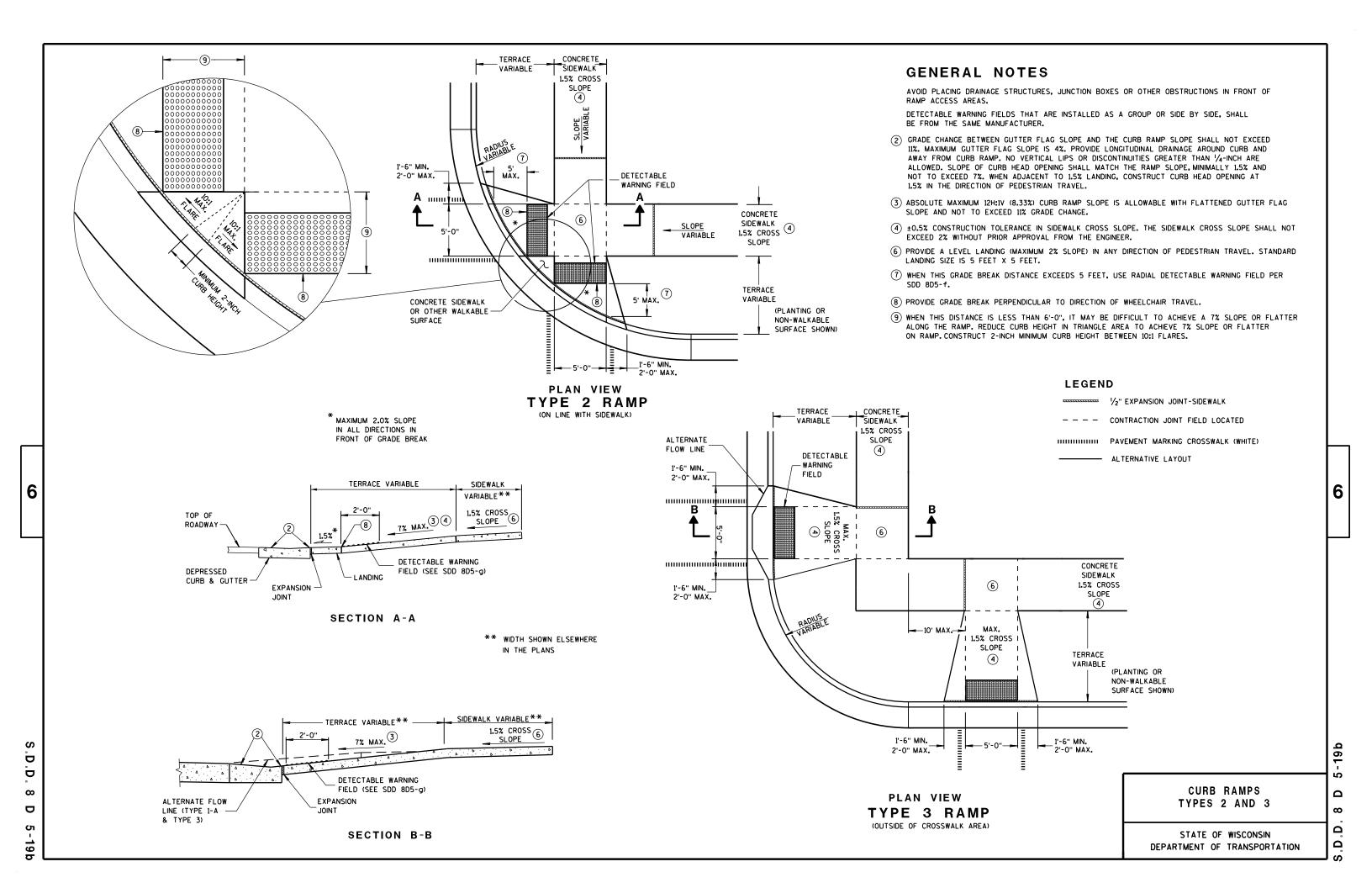
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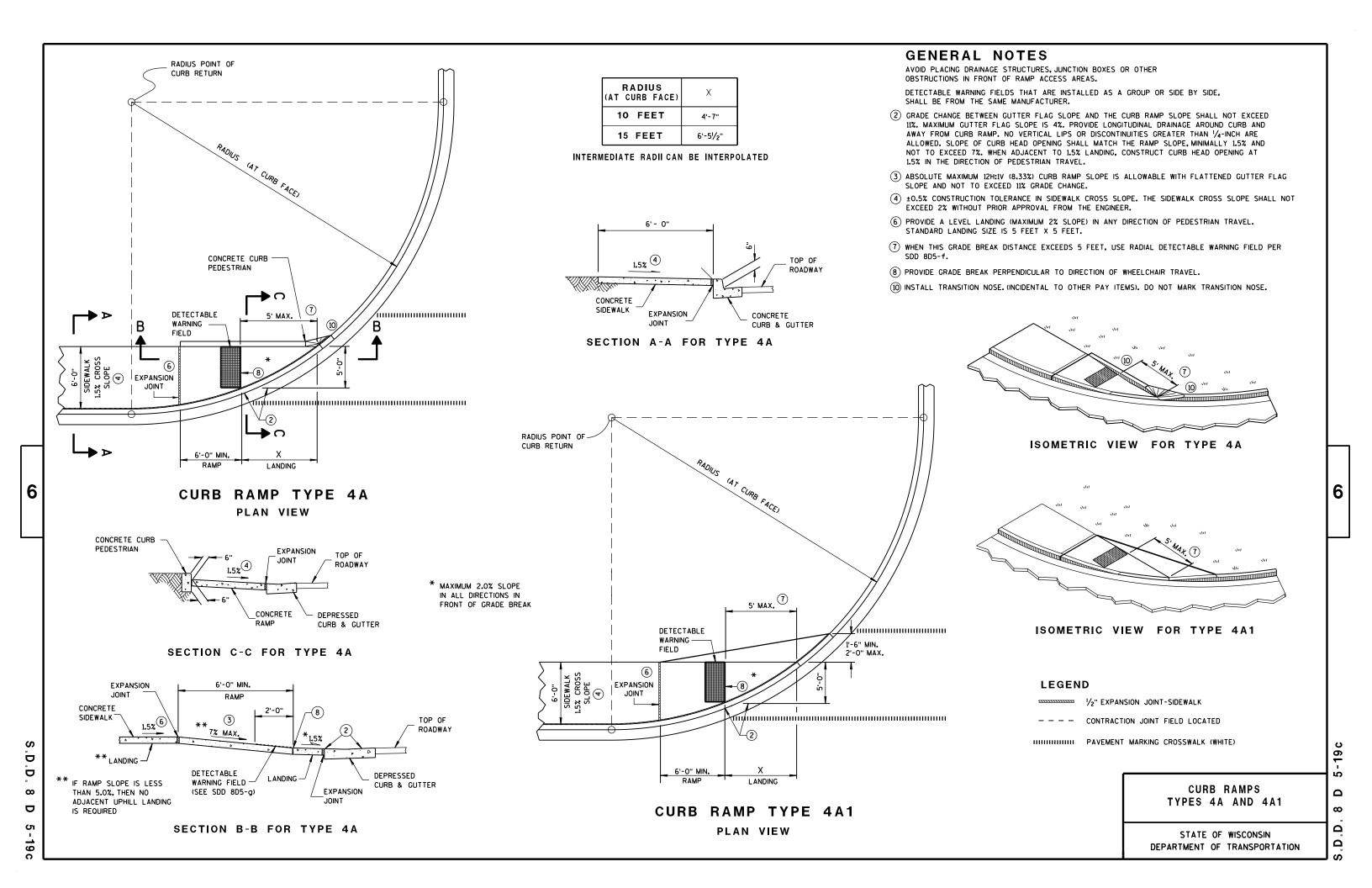
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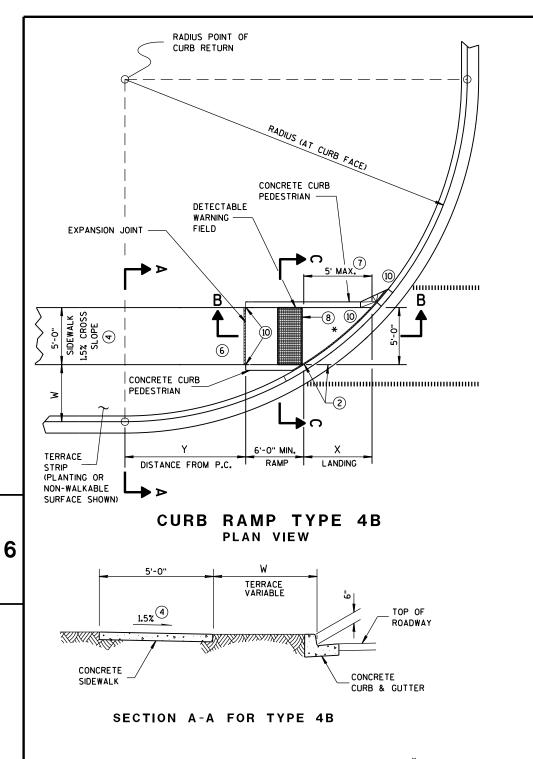
20b

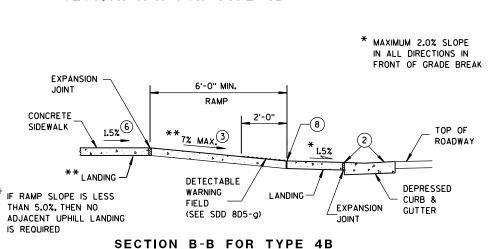
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RADIUS	W = 3' - 0"		W = 4' - Ø"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
(AT CURB FACE)	Х	Y	Х	Y	Х	Y	X	Y	Х	Y	Х	Y	Х	Y	Х	Y
10 FEET	2'-101/4"	0'-5"	2'-1"	1'-41/2"	1'-5"	2'-1"	0'-10"	2'-71/2"	0'-31/4"	3'-01/4"						
15 FEET	4'-6¾"	2'-13/4"	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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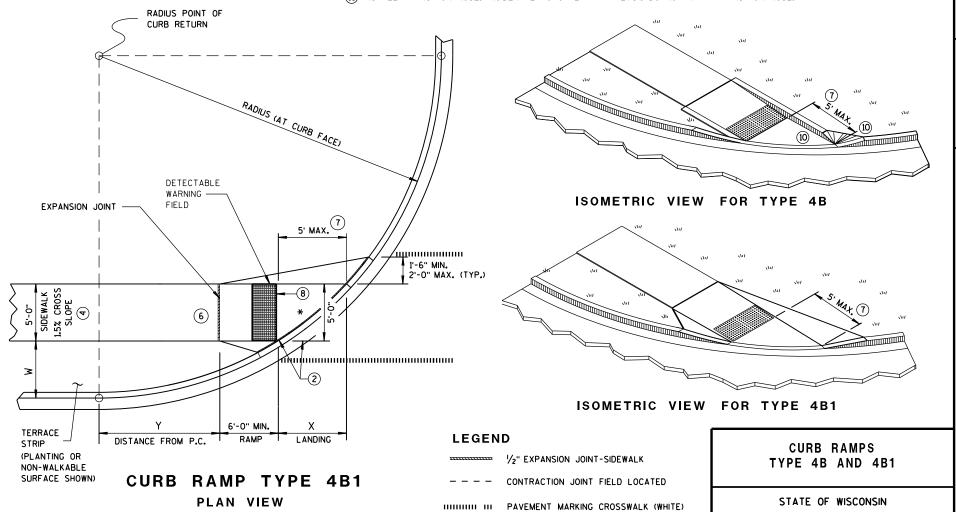
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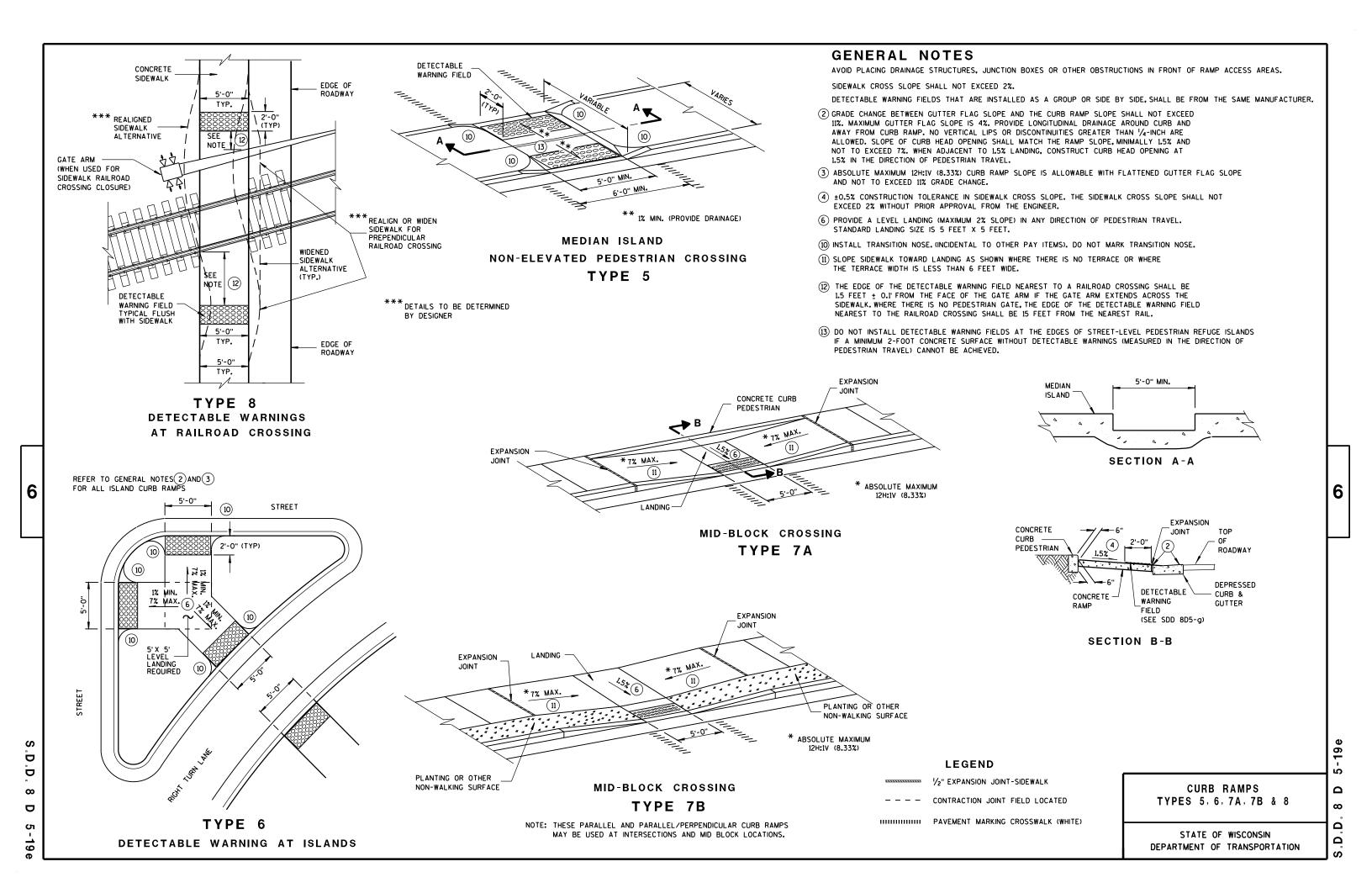
DEPARTMENT OF TRANSPORTATION

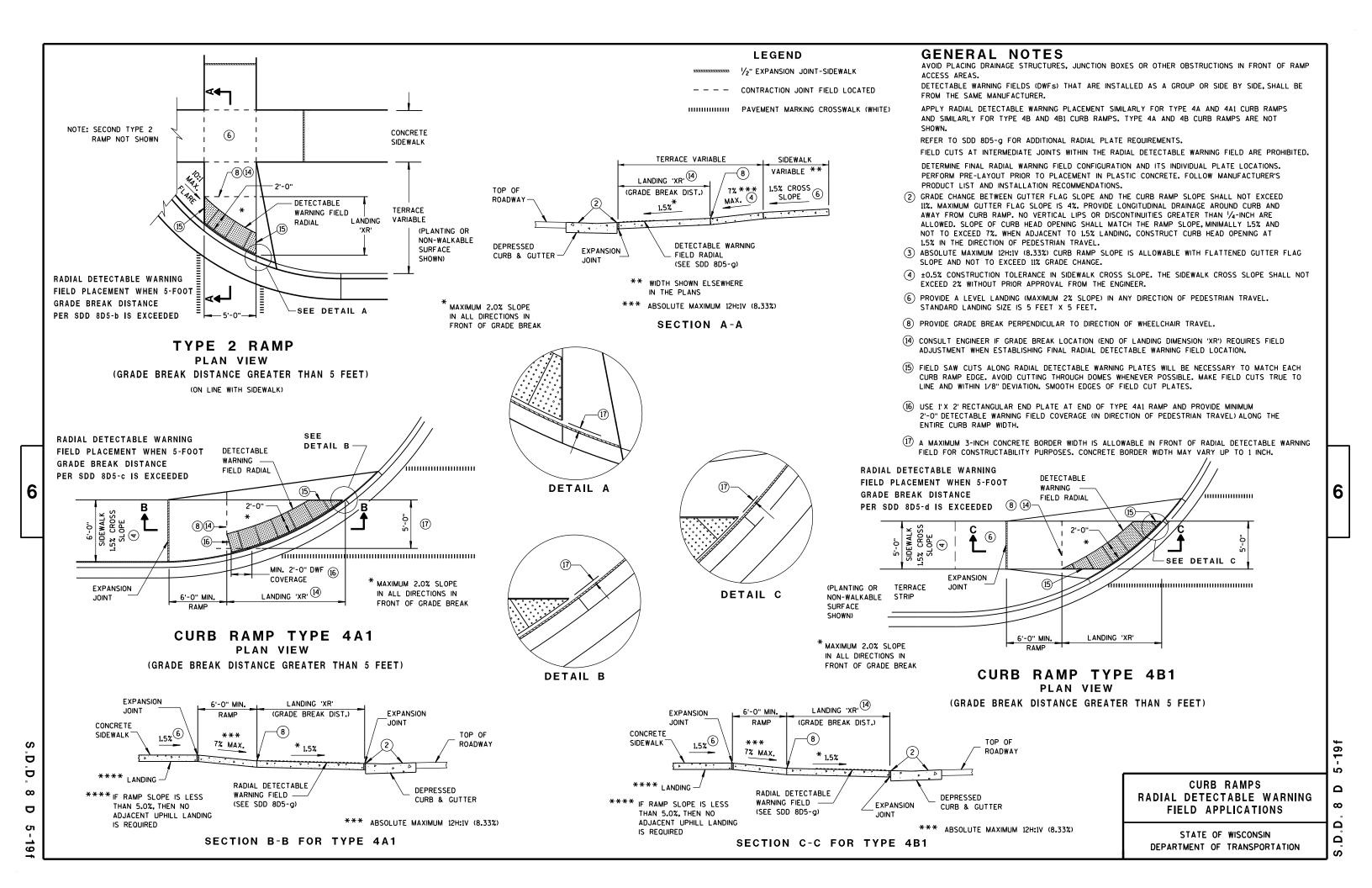
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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	RAI <del>Q</del>	
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

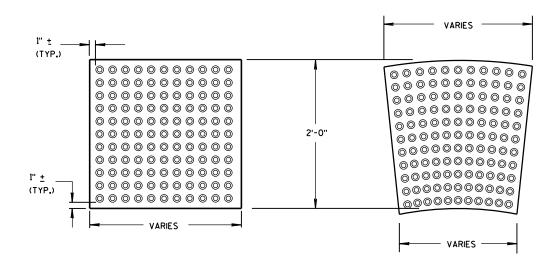
MAX

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.

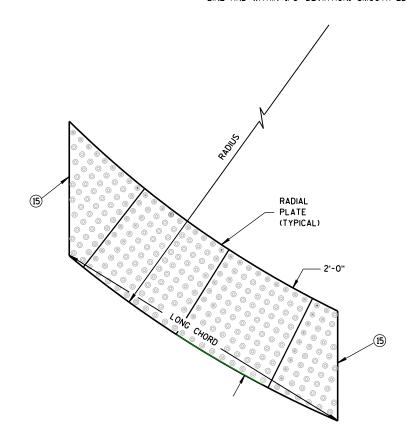
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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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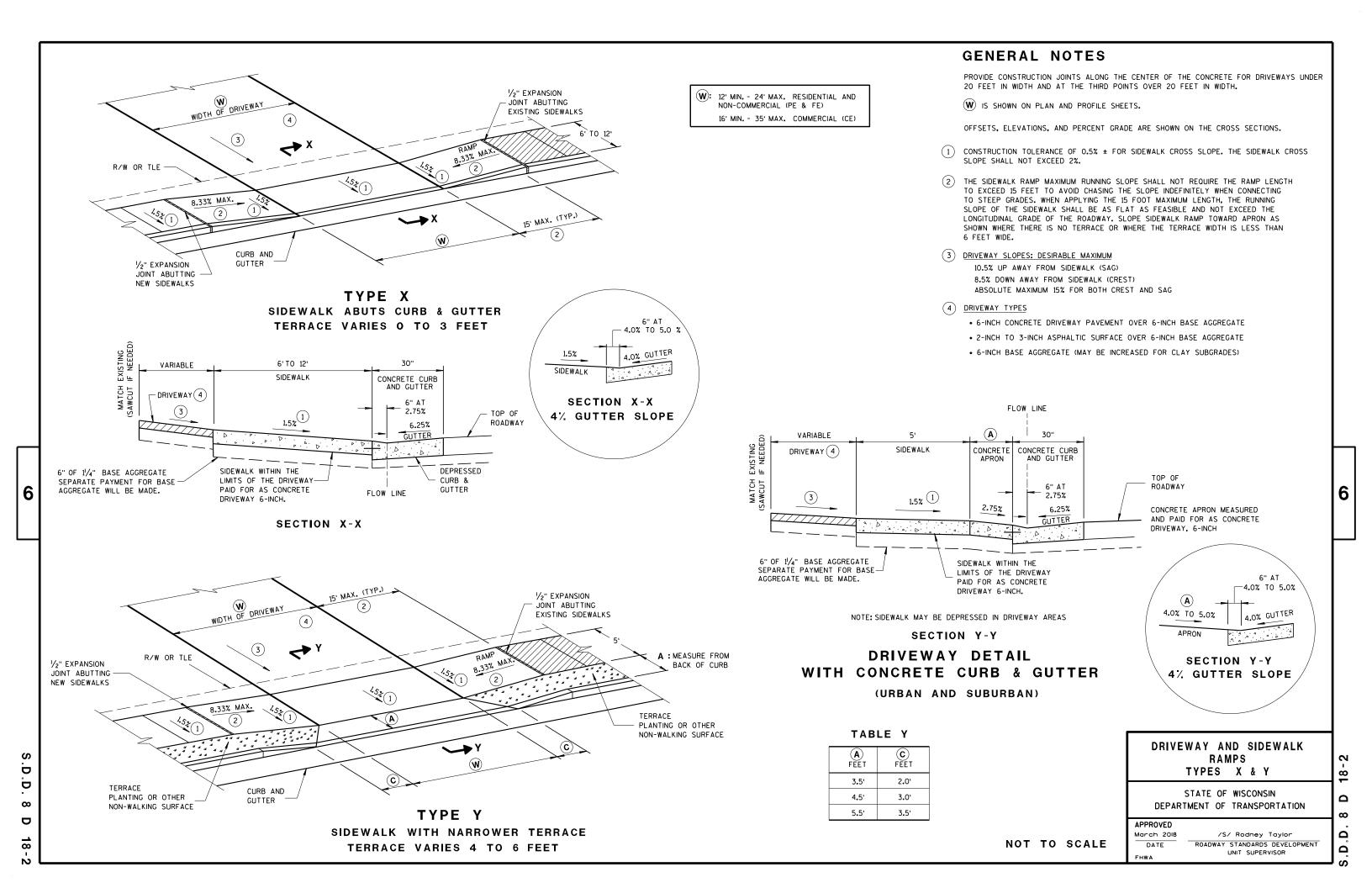
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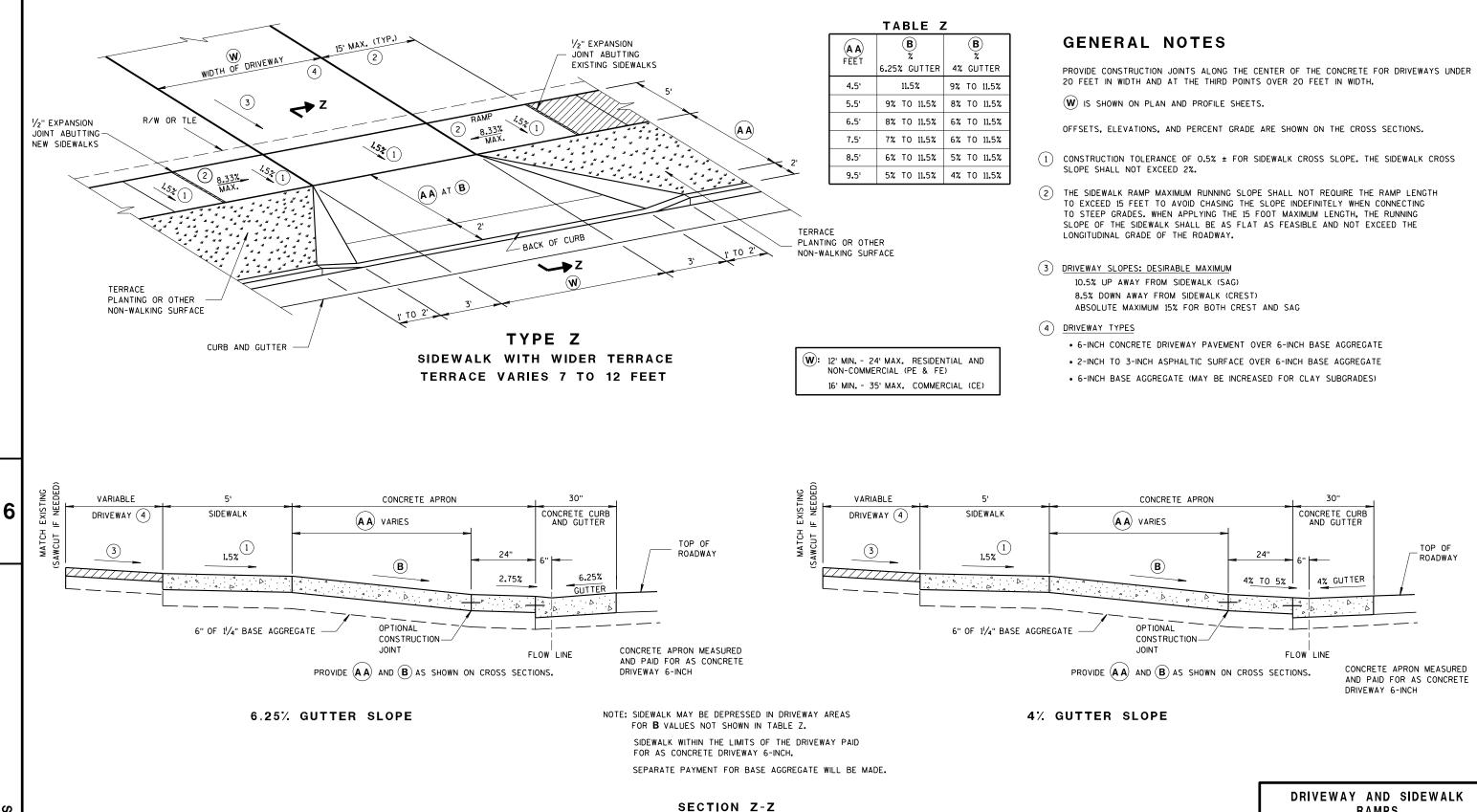
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APP	ROVED

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR





DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

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STATE OF WISCONSIN /S/ Rodney Taylor Ω

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NOT TO SCALE

RAMPS TYPE Z

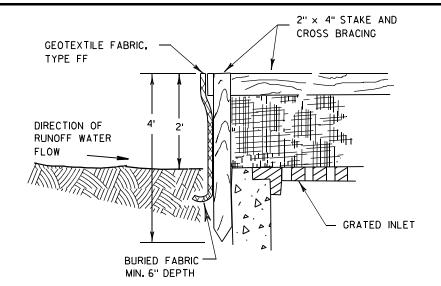
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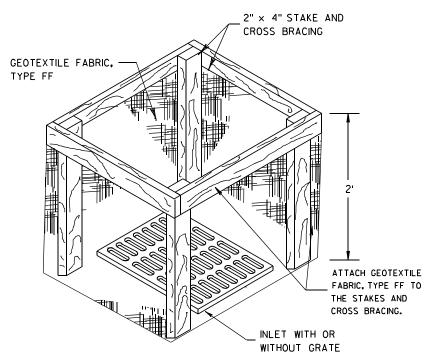
APPROVED March 2018

DATE

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ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR





INLET PROTECTION, TYPE A

## **GENERAL NOTES**

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

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

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

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



## INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

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

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

#### TYPE D

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

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

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

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

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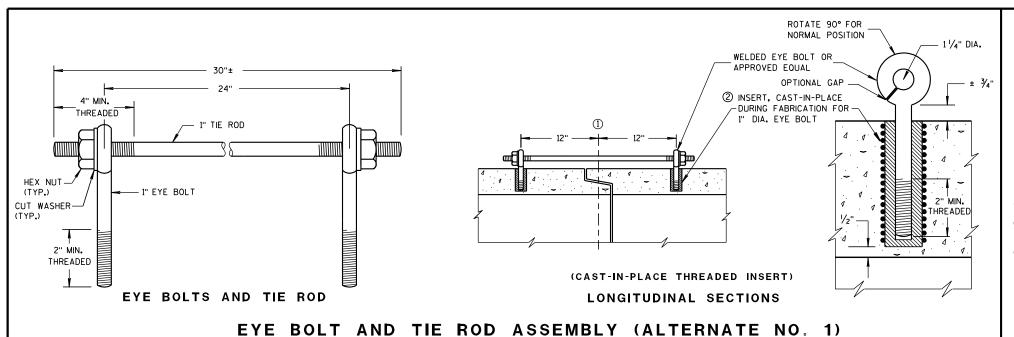
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER



### **GENERAL NOTES**

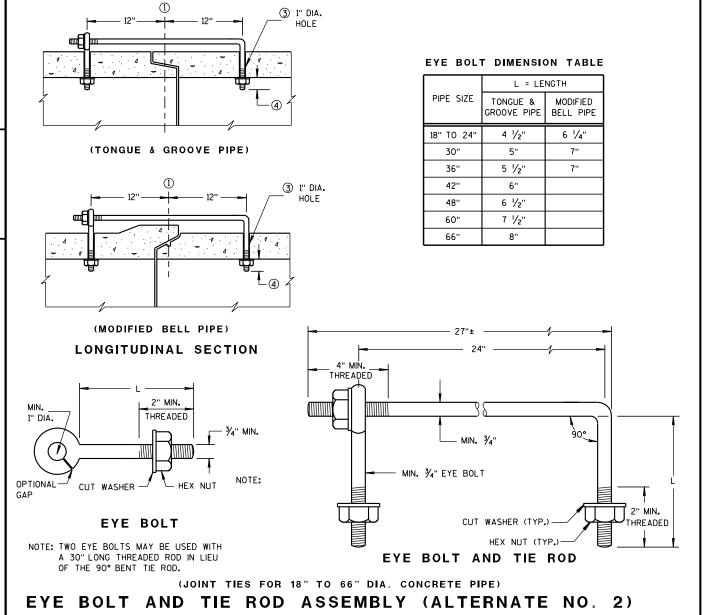
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

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

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

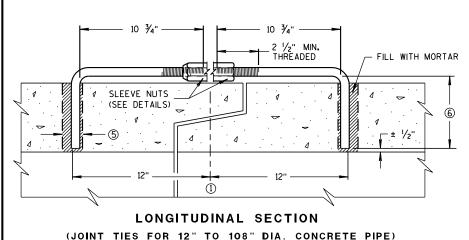


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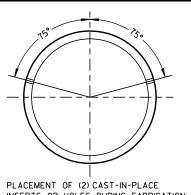
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# ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS**

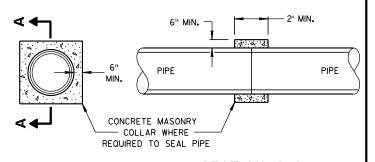


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

### TRANSVERSE SECTION



SECTION A-A

### CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012

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

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## ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



### DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

### **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

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

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

### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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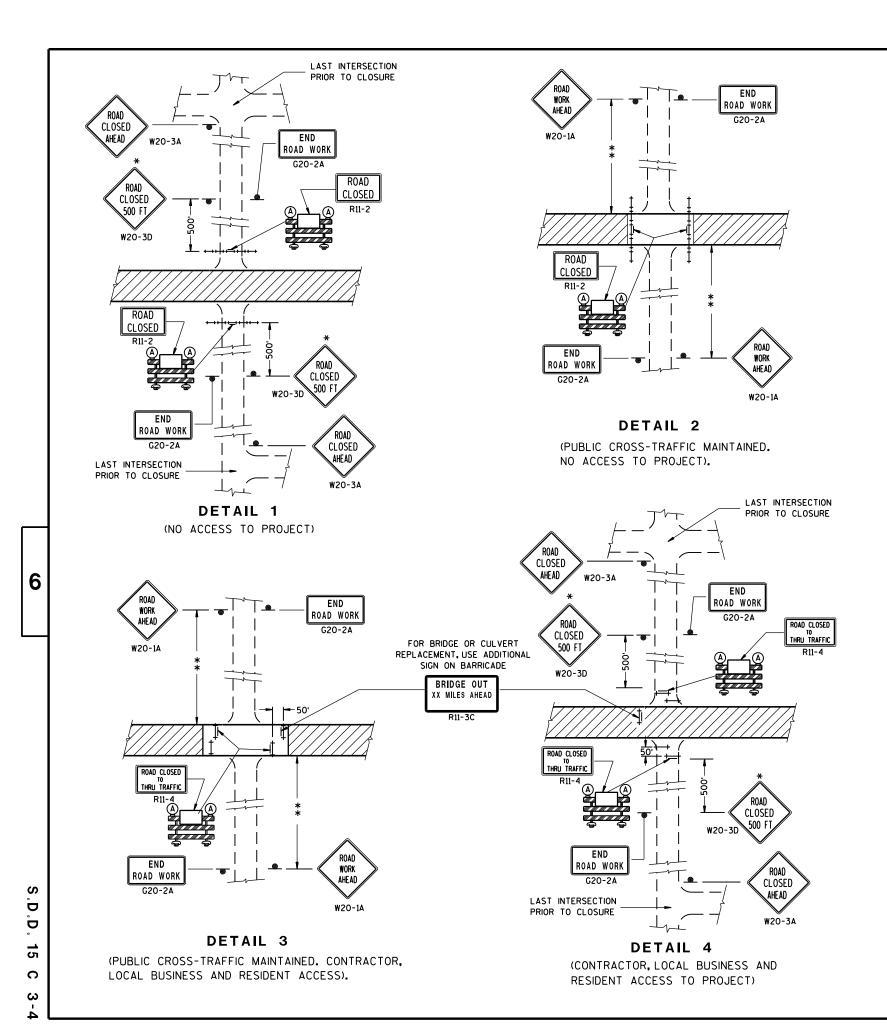
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



### **GENERAL NOTES**

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

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

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

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

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

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

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

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

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

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

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

### **LEGEND**

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

A TYPE "A" WARNING LIGHT (FLASHING)

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WORK AREA

### BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

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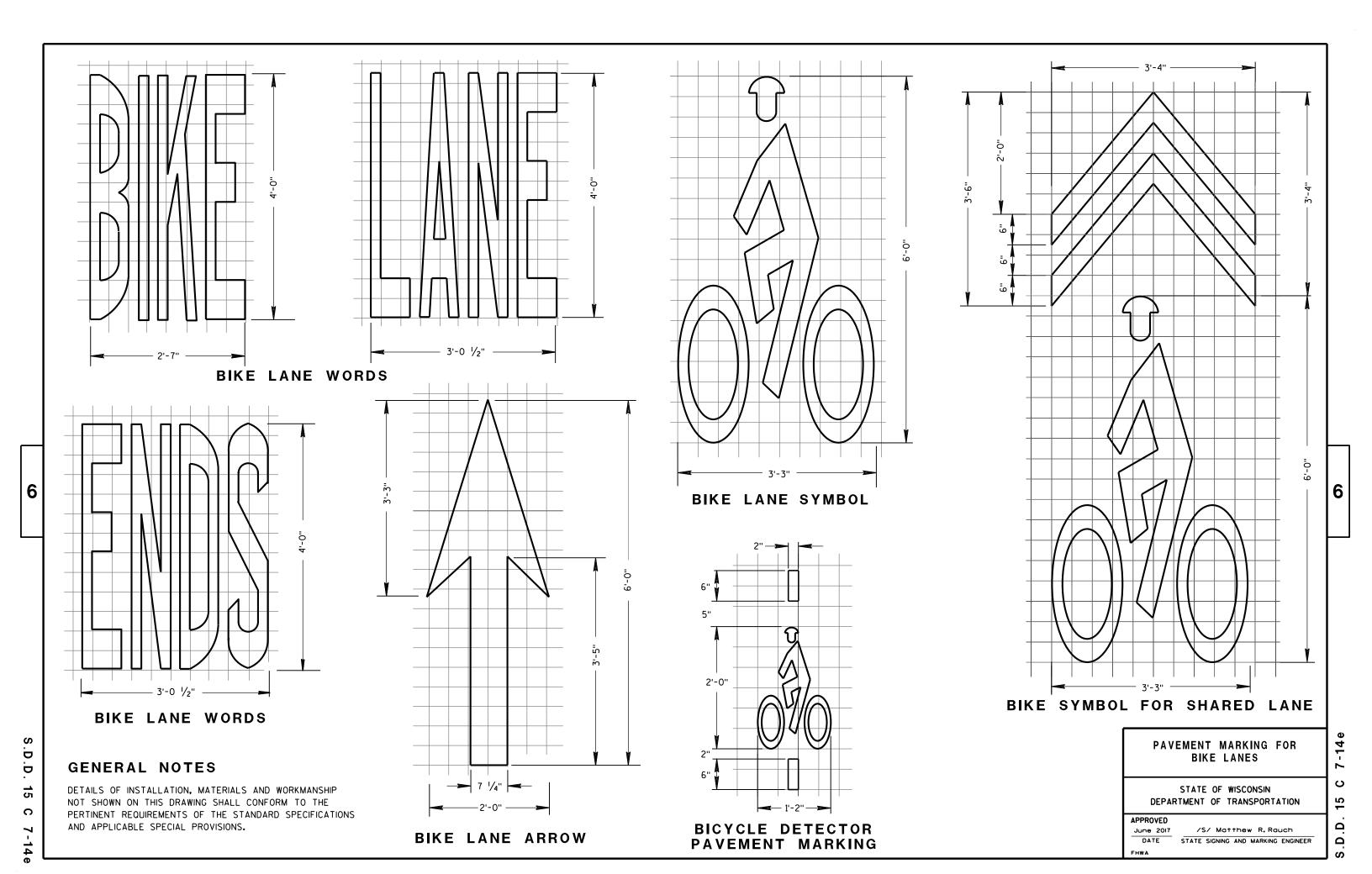
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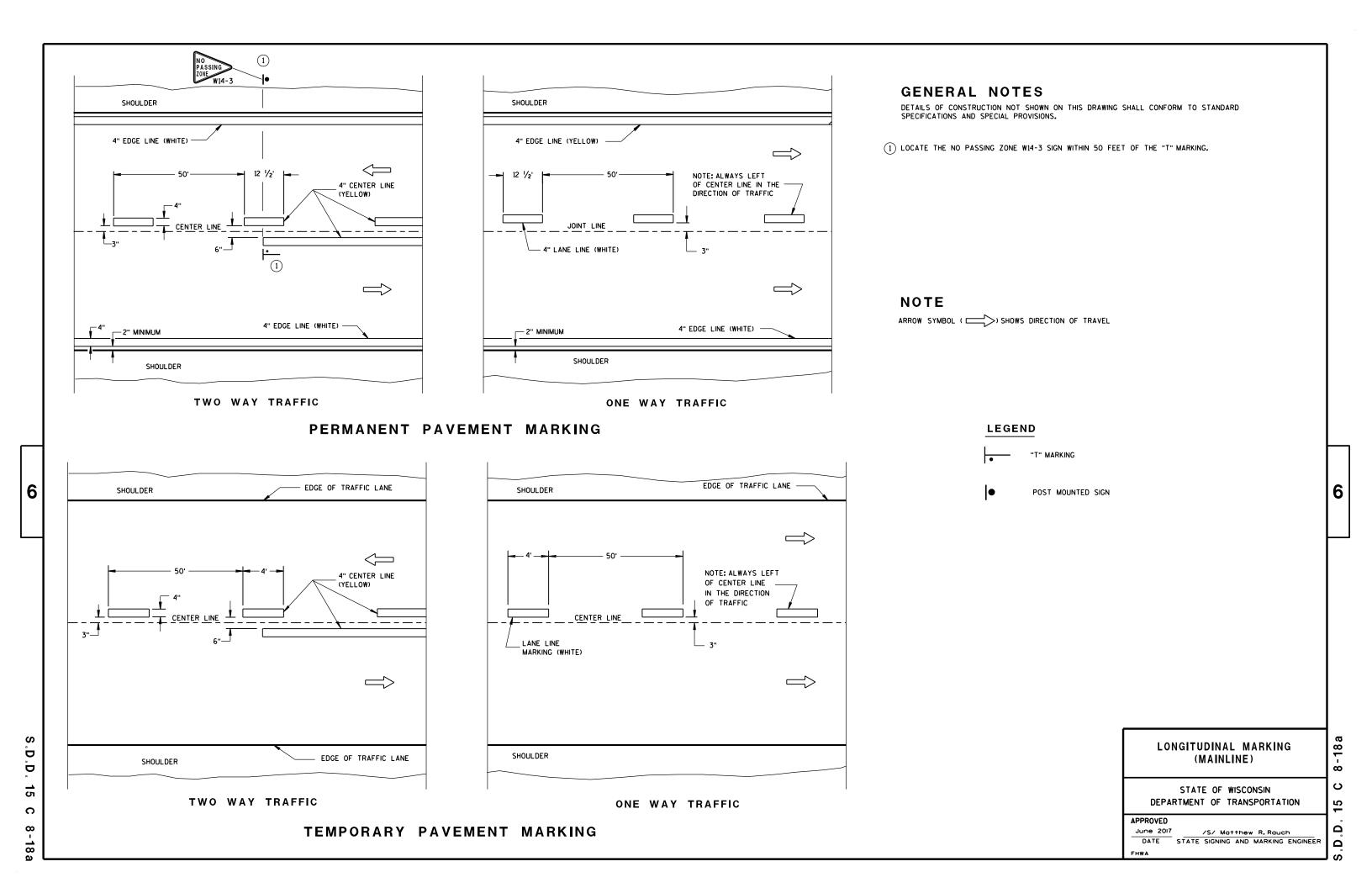
Sept. 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENGINEER
FHWA

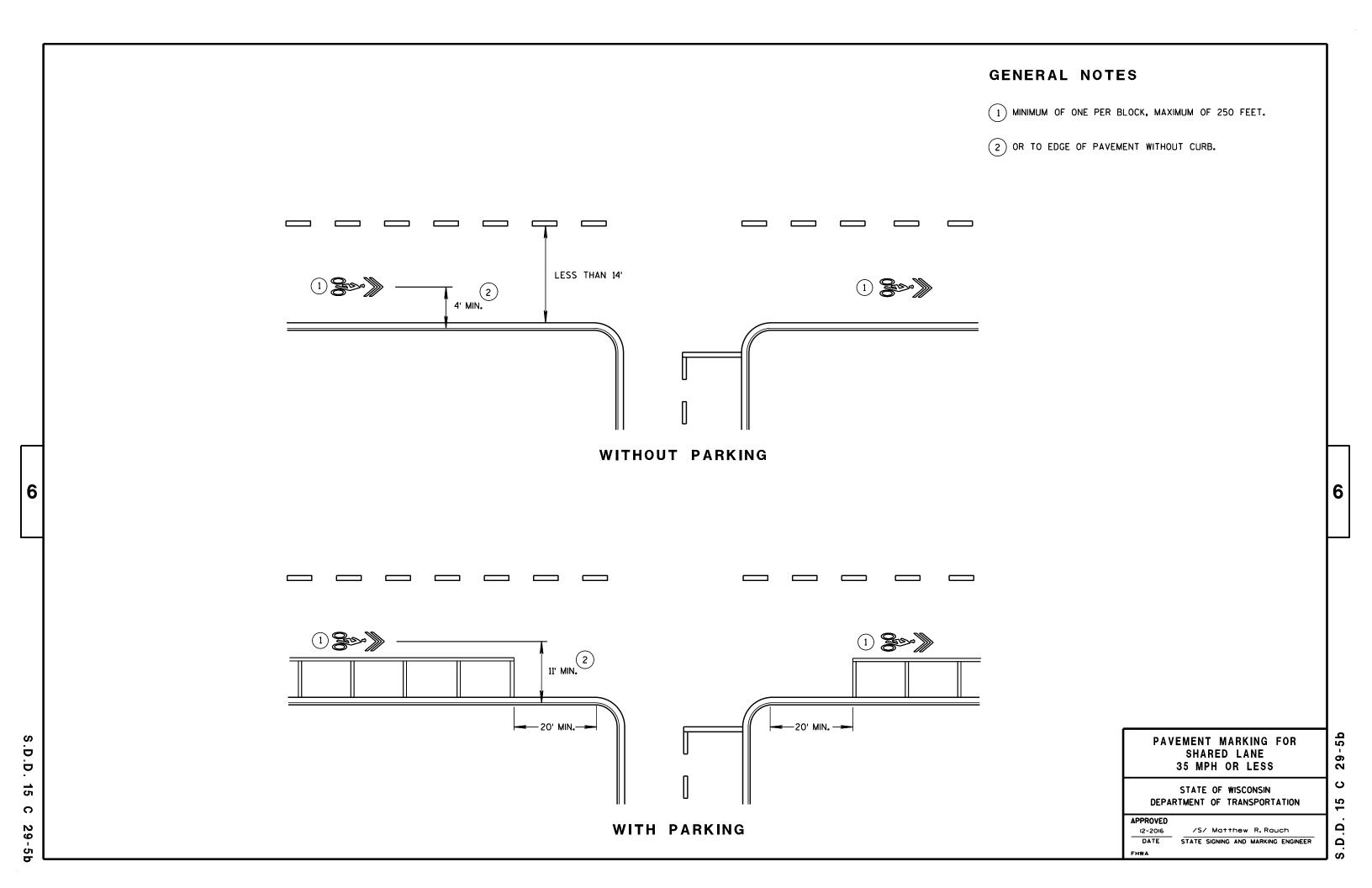
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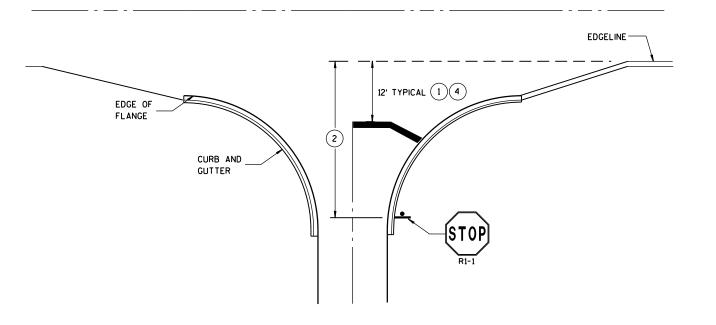
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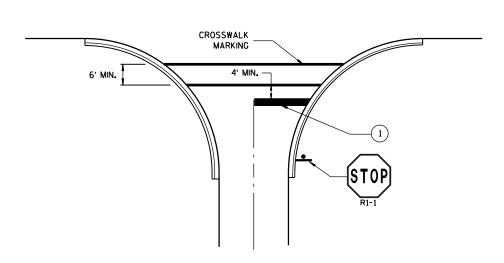




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

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**

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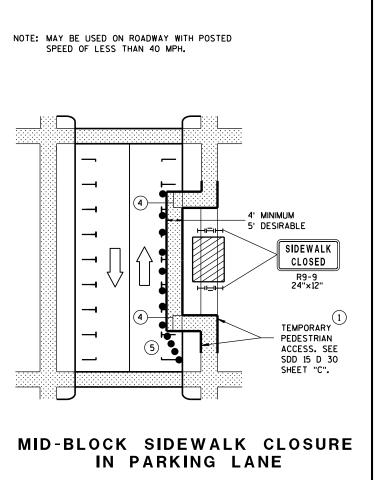
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NOTE: LAYOUT SAME AS ABOVE. 4' MINIMUM 5' DESIRABLE SIDEWALK CLOSED RQ-Q TEMPORARY PEDESTRIAN ACCESS. SEE SDD 15 D 30 SHEET "C". SIDEWALK DIVERSION

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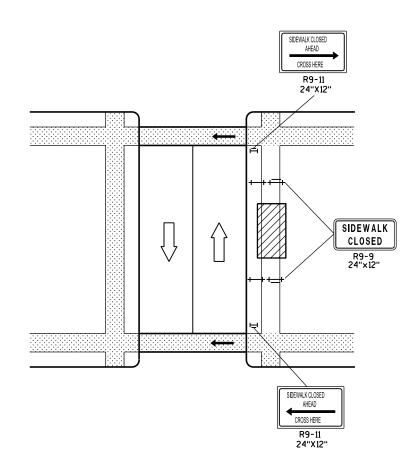
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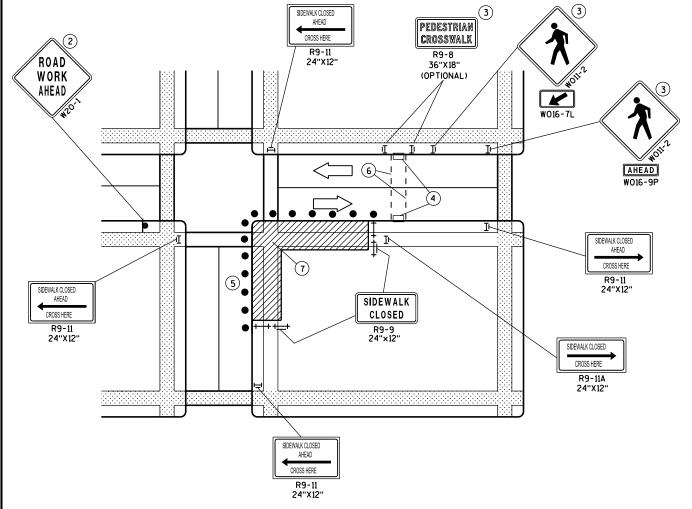
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MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

### **GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.
- 2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- (4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- (6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN

### **LEGEND**

SIGN ON PERMANENT SUPPORT

UNDER PEDESTRIAN TRAFFIC

TRAFFIC TRAFFIC CONTOL DRUM

DIRECTION OF

WORK AREA PEDESTRIAN

CHANNELIZATION DEVICE

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A. LOW-INTENSITY FLASHING)

TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က 0 က Ω Ω



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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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

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

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

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

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

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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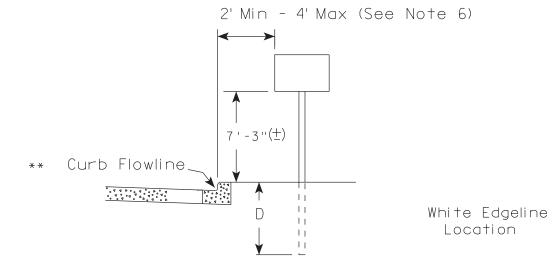
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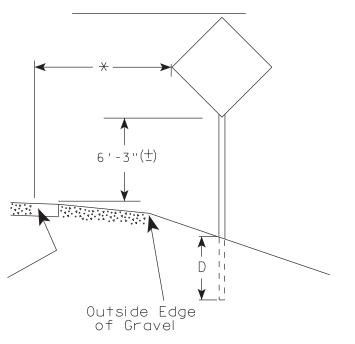
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38-2b

# URBAN ARFA

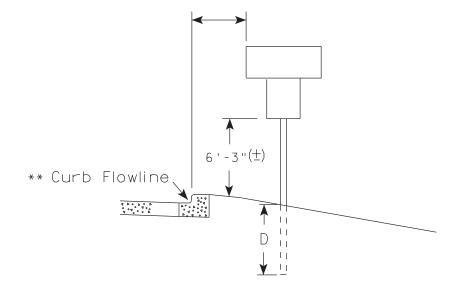


RURAL AREA (See Note 2)



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

Location



5'-3"(生) White Edgeline D IILocation Outside Edae of Gravel

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

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

HWY:

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

PLOT BY : mscj9h

### GENERAL NOTES

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

### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 7/23/15

SHEET NO:

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

PROJECT NO:

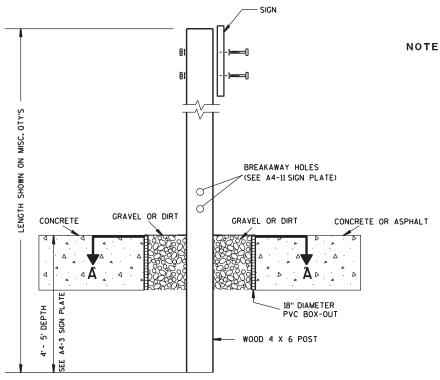
PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

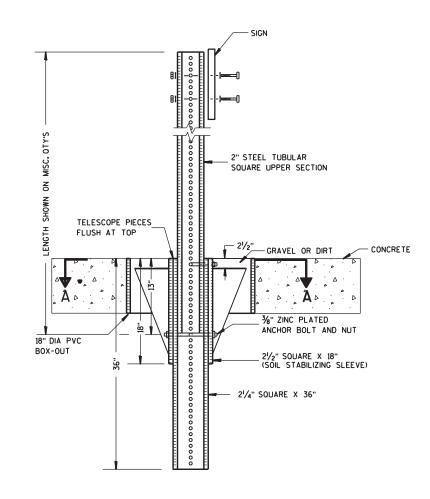
PLATE NO. <u>A4-3.20</u>



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.



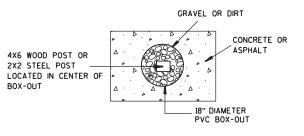
### **ELEVATION VIEW**

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 :

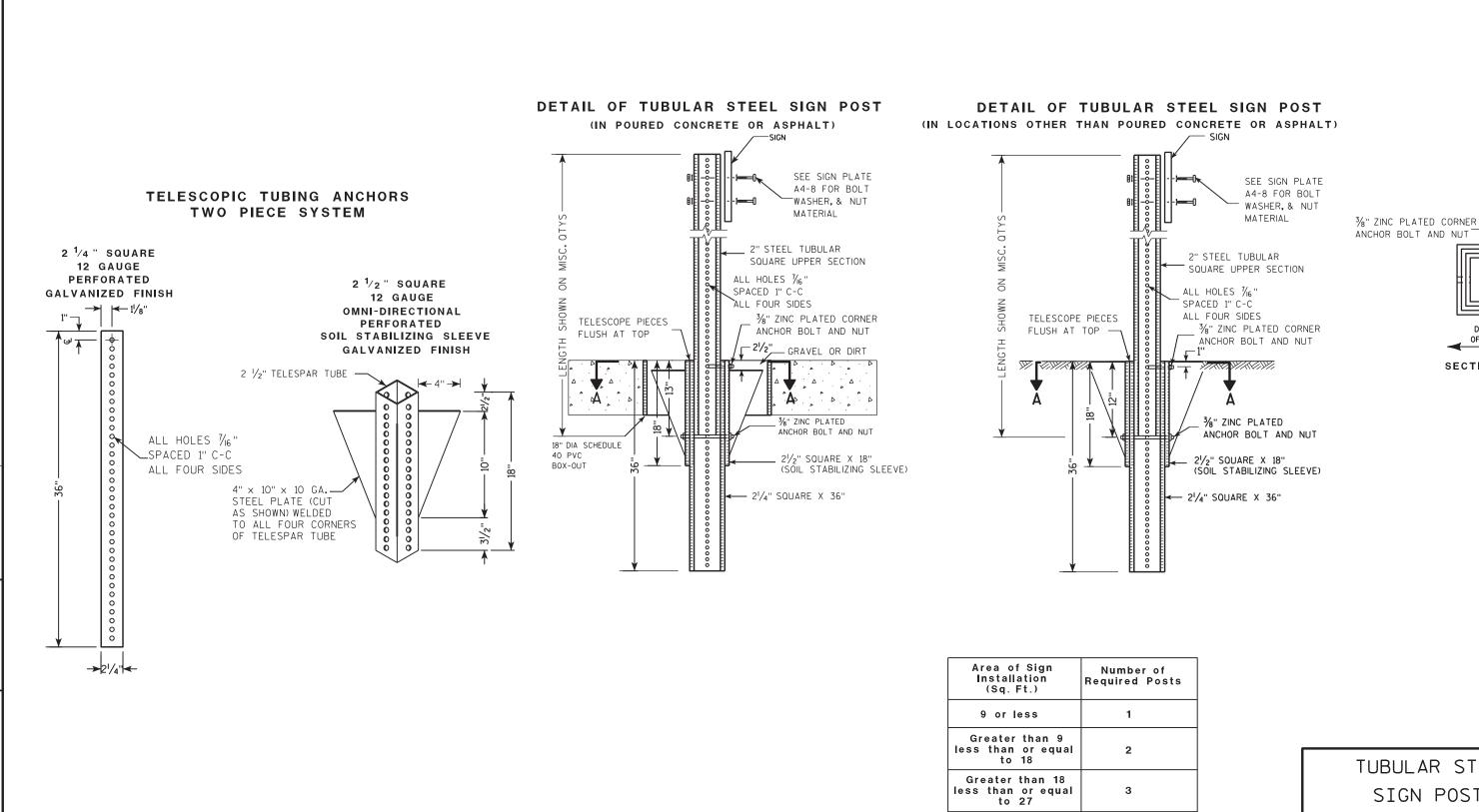
PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

: 27-JAN-2014 09:48 PLOT BY: mscsja

7



Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

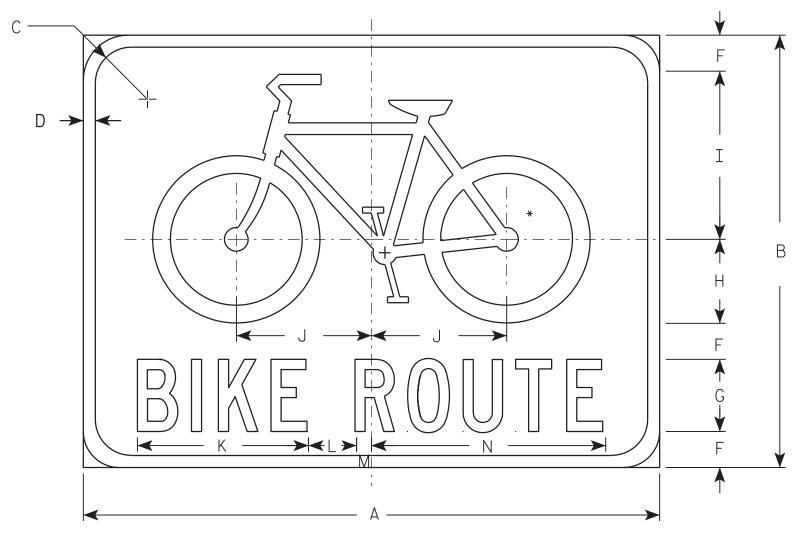
PLOT BY: mscsja

HWY:

PROJECT NO:

COUNTY:

SECTION A-A



### NOTES

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

Background - GREEN Message - WHITE

- 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.

D11-1

Metric equivalent for this sign is:

SIZE					
1					
2	600	mm	Χ	450	mm
3	750	mm	Χ	600	mm
4					
5					

PROJECT NO:

*	See	W11-1	for	symbol	design
				0 1 0 1	G G G E G

PLOT BY : DOTDZK

SIZE D G Н 0 U Z 1 1/2 3 1/2 5 % 7 1/8 5/8 9 3/4 24 18 1 1/2 1/2 3 3.0 0.27 3 4 3/4 9 1/4 7 1/2 9 1/2 2 5/8 5.0 30 7/8 13 0.45 24 1 1/4 4 5

STANDARD SIGN D11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

For State Traffic Engineer
DATE 3/24/04 PLATE NO. D11-1.1

SHEET NO:

SHEE

FILE NAME : C:\Users\Projects\tr_stdplate\D111.DGN

PLOT DATE: 17-MAR-2005 10:38



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

R	F F F F F F F F F F F F F F F F F F F	A
D E F G H I J K L		y X

												1/1															
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	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

Matther R Rawle For State Traffic Engineer

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

PLATE NO. _____R1-1.13

SHEET NO:

HWY:

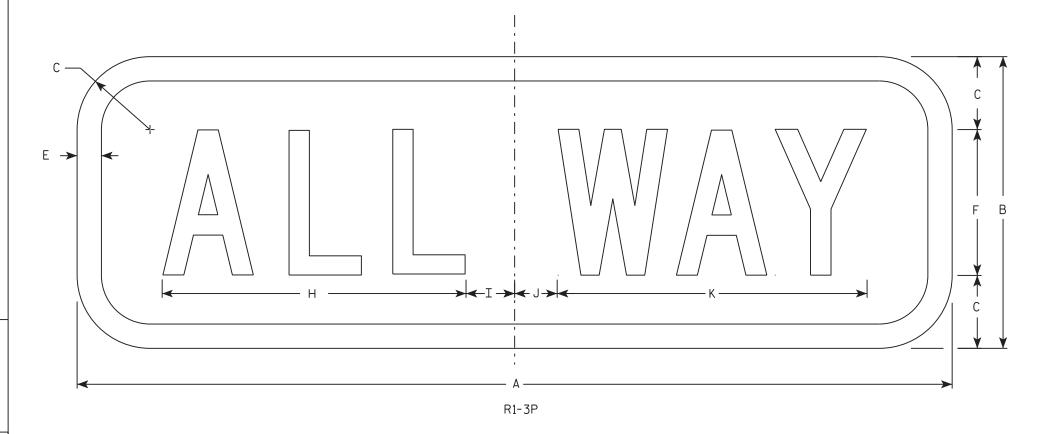
PROJECT NO:

### NOTES

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

Background - Red Message - White

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



SIZE	Α	В	С	D	E	F	G H	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	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

Matthew R Rauch
For State Traffic Engineer

DATE 11/29/16

PLATE NO. <u>R1-3P.3</u>

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 29-NOV-2016 14:03

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

PLOT SCALE: 1.974123:1.000000

WISDOT/CADDS SHEET 42

1



### NOTES

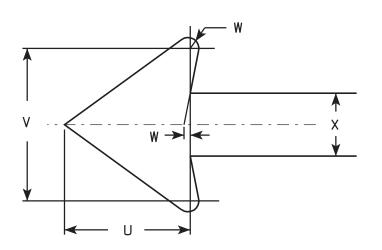
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Red

- 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, 3 and 4 are series C, line 2 is series B.
- 6. R7-1D (double arrow)

R7-1L (left arrow)

R7-1R (right arrow)



R7-1

SIZE	Α	В	C	D	Ε	F	G	Н	I	J	K	L	M	Ν	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 %	2	<b>1</b> /8	5/8	1 1/2	2 1/2	2	2	4 1/8	4 1/8	2 1/4	2 1/8	2 1/2	3 %	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 %	3 1/8	5 %	2 1/4	2 %	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5														·					·								

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 3/31/2011

1 PLATE NO. R7-1.9
SHEET NO:

HWY:

PROJECT NO:

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

2. Color:

Background - YELLOW Message - BLACK

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

F F F F F F F F F F F F F F F F F F F
A DE
W14-2

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	Υ	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 %																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 %																6.25
3	36		1 %	5/8	3/4	7	1 3/8	4 %	6	16 1/8	17 1/8																9.0
4																											
5								·					·									·					

STANDARD SIGN W14-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-2.3

SHEET NO:

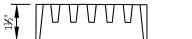
PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W142.DGN

PLOT DATE: 13-MAR-2013 13:30

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



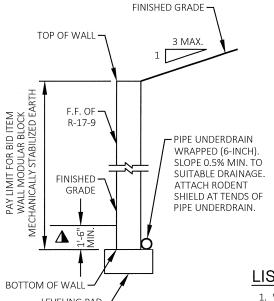
SECTION B-B

# NOMINAL

### RODENT SHIELD DETAIL

* DIMENSION IS APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE

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 EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH

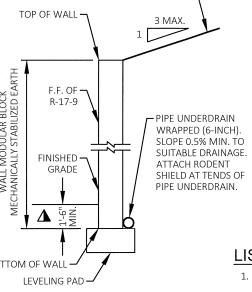


TYPICAL CROSS SECTION OF RETAINING WALL

# %" MAX.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

STAINLESS STEEL SHEET METAL SCREWS.



LIST OF DRAWINGS

1. WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-17-9

### TOTAL ESTIMATED QUANTITIES ITEM NUMBER BID ITEMS UNIT TOTALS SPV.0165.01 WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-17-9 S.F 222 SPV.0165.03 SALVAGE AND RESET WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-17-9 S.F. 523

**EVALUATED LOCATIONS** 

5.33

3.83

8.0

202+25

2.8

8.0

2.0

4.0

6,500

7.0

5.5

8.0

201+50

2.4

5.5

1.6

3.0

6,500

· R 13TH STREET

F.F OF R-17-9

PLAN

FINISHED GRADE

**ELEVATION** 

(LOOKING @ F.F. OF WALL)

WALL

STATION

201+11.45

201+25.00

201+50.00

201+75.00

202+00.00

202+25.00

202+50.00

- BOTTOM OF WALL

ROADWAY

STATION

201+11.45

201+25.00

201+50.00

201+75.00

202+00.00

202+25.00

202+50.00

(1'-6" MIN. BELOW FINISHED GRADE)

**GEOMETRY TABLE** 

OFFSET TO

F.F. WALL

16.89' RT.

20.00' RT

20.00' RT.

20.00' RT.

20.36' RT.

23.93' RT.

27.50' RT.

TOP OF WALL

ELEVATION

935.91

935.41

938 48

937.48

938.41

939.87

939.93

TOP OF WALL

201+00

MATCH EXISTING -

WALL ELEVATION

(VERIFY IN FIELD)

WALL HEIGHT (FEET)

WALL STATION

SLIDING (CDR>1.0)

ECCENTRICITY (CDR>1.0)

OVERALL STABILITY (CDR>1.0)

FACTORED BEARING RESISTANCE (PSF)

BEARING RESISTANCE (CDR>1.0)

8

EXPOSED WALL HEIGHT (FEET)

A PROX

WALL EXTERNAL & OVERALL STABILITY EVAL.

CAPACITY TO DEMAND RATION (CDR)

DIMENSIONS

MINIMUM LENGTH OF REINFORCEMENT (FEET)

PETERSON

E-3/102

MENOMONIE

F F OF -

EXISTING

R-17-9

202+00

PROPOSED WALL

TO BE SALVAGED

STA. 202+50.0 EL. 937.47

**EXISTING WALL-**

AND RESET

### SOIL PARAMETERS TOTAL UNIT FRICTION SOIL DESCRIPTIONS WEIGHT ANGLE (PCF) (DEGREES) GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL) 120 34° (SAND) RETAINED SOIL* 115 30° * DESIGN WALL FOR THESE VALVES

7996-00-09

STATE PROJECT NUMBER

### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-17-9 IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1' 6" BELOW FINISHED GRADE.

### **DESIGN DATA**

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM BID ITEM WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-17-9.

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS & DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN

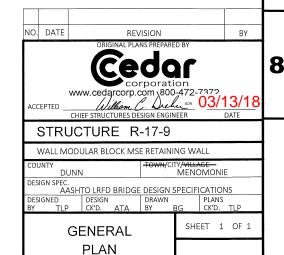
SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF.

### **DESIGNER NOTES**

- THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED
- THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY
- ▲ MINIMUM EMBEDMENT BASED ON SITE SPECIFIC PARAMETERS (1'-6" MINIMUM FOR ALL WALLS ON LEVEL GROUND). FIELD EMBEDMENTS SHALL MEET OR EXCEED THE MINIMUM EMBEDMENT. FIELD EMBEDMENTS BELOW MINIMUM EMBEDMENT SHALL NOT BE INCLUDED IN THE PAY LIMITS.

NOMINAL MSE PANEL DIMENSIONS ARE 5-FOOT HIGH AND 5-10 FOOT WIDE. THE WALL DESIGNER SHALL PROVIDE DETAILS BASED ON NOMINAL PANEL DIMENSIONS AND CONFIGURATION. DETAILS SHALL BE ABLE TO ACCOMMODATE VARIOUS PANEL DIMENSIONS. THE CONTRACTOR AND WALL SUPPLIER SHALL COORDINATE DETAILS BASED ON THE ACTUAL PANEL DIMENSIONS.



I.D. 7996-00-09

DATE: February 18

### MAIN STREET - INCREMENTAL VOLUME

			END AREA			C		FILL			
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
101+37		47.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101+50	13	47.0	0.0	14.0	22.6	22.6	6.7	15.9	0.0	0.0	15.9
102+00	50	45.0	0.0	13.0	85.2	85.2	25.0	60.2	0.0	0.0	60.2
102+50	50	45.0	0.0	13.0	83.3	83.3	24.1	59.3	0.0	0.0	59.3
103+00	50	45.0	0.0	13.0	83.3	83.3	24.1	59.3	0.0	0.0	59.3
103+50	50	45.0	0.0	13.0	83.3	83.3	24.1	59.3	0.0	0.0	59.3
104+00	50	45.0	0.0	13.0	83.3	83.3	24.1	59.3	0.0	0.0	59.3
104+50	50	61.0	0.0	32.0	98.1	98.1	41.7	56.5	0.0	0.0	56.5
105+00	50	44.8	1.6	23.0	98.0	98.0	50.9	47.0	1.5	1.9	45.1
105+50	50	63.1	0.1	23.0	99.9	99.9	42.6	57.3	1.6	2.0	55.3
106+00	50	54.1	3.2	23.0	108.5	108.5	42.6	65.9	3.1	4.0	62.0
106+50	50	56.8	3.2	23.0	102.7	102.7	42.6	60.1	5.9	7.7	52.4
107+00	50	66.8	0.0	23.0	114.4	114.4	42.6	71.9	3.0	3.9	68.0
107+50	50	68.2	0.0	30.1	125.0	125.0	49.2	75.8	0.0	0.0	75.8
108+00	50	47.7	2.5	11.0	107.3	107.3	38.1	69.3	2.3	3.0	66.3
108+50	50	51.2	1.1	11.0	91.6	91.6	20.4	71.2	3.3	4.3	66.9
109+00	50	51.1	0.9	11.0	94.7	94.7	20.4	74.4	1.9	2.4	71.9
109+50	50	51.9	1.0	11.0	95.4	95.4	20.4	75.0	1.8	2.3	72.7
110+00	50	54.4	1.6	11.0	98.4	98.4	20.4	78.1	2.4	3.1	74.9
110+50	50	54.2	1.0	11.0	100.6	100.6	20.4	80.2	2.4	3.1	77.1
111+00	50	62.9	0.0	22.0	108.4	108.4	30.6	77.9	0.9	1.2	76.7
111+50	50	51.1	1.0	11.0	105.6	105.6	30.6	75.0	0.9	1.2	73.8
112+00	50	56.3	0.0	11.0	99.4	99.4	20.4	79.1	0.9	1.2	77.9
112+50	50	67.0	0.0	11.0	114.2	114.2	20.4	93.8	0.0	0.0	93.8
113+00	50	49.3	1.0	11.0	107.7	107.7	20.4	87.3	0.9	1.2	86.1
113+50	50	48.8	1.1	11.0	90.8	90.8	20.4	70.5	1.9	2.5	67.9
114+00	50	31.2	0.0	11.0	74.1	74.1	20.4	53.7	1.0	1.3	52.4
114+50	50	39.2	0.0	15.0	65.2	65.2	24.1	41.1	0.0	0.0	41.1
115+00	50	40.0	0.0	15.0	73.3	73.3	27.8	45.6	0.0	0.0	45.6
115+05	5	42.0	0.0	11.0	7.6	7.6	2.4	5.2	0.0	0.0	5.2
				COLUMN TOTALS		2622.1	797.3	1824.8		46.5	1778.3

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

7996-00-09 COUNTY: DUNN Ε PROJECT NO: HWY: LOCAL STREET EARTHWORK DATA SHEET

PLOT NAME :

9

²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

³⁾ THE MASS HAUL = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

### **13TH STREET - INCREMENTAL VOLUME**

			E	ND AREA		c		FIL			
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
197+75		14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198+00	25	14.2	0.0	0.0	13.1	13.1	0.0	13.1	0.0	0.0	13.1
198+50	50	5.0	0.0	0.0	17.8	17.8	0.0	17.8	0.0	0.0	17.8
199+00	50	5.3	0.3	0.0	9.5	9.5	0.0	9.5	0.3	0.4	9.2
199+50	50	7.2	0.6	0.0	11.6	11.6	0.0	11.6	0.8	1.1	10.5
200+00	50	7.1	0.0	0.0	13.2	13.2	0.0	13.2	0.6	0.7	12.5
200+50	50	0.0	0.0	0.0	6.6	6.6	0.0	6.6	0.0	0.0	6.6
201+00	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201+50	50	60.2	0.8	13.0	55.7	55.7	12.0	43.7	0.7	1.0	42.7
202+00	50	61.2	0.1	13.0	112.4	112.4	24.1	88.3	0.8	1.1	87.3
202+50	50	50.2	0.8	13.0	103.1	103.1	24.1	79.1	0.8	1.1	78.0
203+00	50	36.1	1.2	13.0	79.9	79.9	24.1	55.8	1.9	2.4	53.4
203+50	50	50.2	1.5	13.0	79.9	79.9	24.1	55.8	2.5	3.3	52.6
204+00	50	27.1	0.0	13.0	71.6	71.6	24.1	47.5	1.4	1.8	45.7
204+50	50	38.3	8.5	20.0	60.6	60.6	30.6	30.0	7.9	10.2	19.8
205+00	50	47.2	9.4	20.0	79.2	79.2	37.0	42.1	16.6	21.5	20.6
205+50	50	59.0	6.5	20.0	98.3	98.3	37.0	61.3	14.7	19.1	42.2
206+00	50	70.8	3.7	20.0	120.2	120.2	37.0	83.1	9.4	12.3	70.9
206+50	50	87.7	2.5	20.0	146.8	146.8	37.0	109.7	5.7	7.5	102.3
207+00	50	69.7	3.3	20.0	145.7	145.7	37.0	108.7	5.4	7.0	101.7
207+50	50	26.1	0.0	20.0	88.7	88.7	37.0	51.7	3.1	4.0	47.7
208+00	50	28.3	3.5	13.0	50.4	50.4	30.6	19.8	3.2	4.2	15.6
208+50	50	19.7	10.9	13.0	44.4	44.4	24.1	20.4	13.3	17.3	3.0
209+00	50	23.3	5.9	13.0	39.8	39.8	24.1	15.7	15.6	20.2	-4.5
209+50	50	16.7	4.6	13.0	37.0	37.0	24.1	13.0	9.7	12.6	0.3
210+00	50	4.9	10.5	13.0	20.0	20.0	24.1	-4.1	14.0	18.2	-22.3
210+50	50	0.0	16.2	13.0	4.5	4.5	24.1	-19.5	24.7	32.1	-51.7
211+00	50	0.0	6.5	13.0	0.0	0.0	24.1	-24.1	21.0	27.3	-51.4
211+50	50	16.1	16.7	13.0	14.9	14.9	24.1	-9.2	21.5	27.9	-37.1
212+00	50	21.3	1.1	13.0	34.6	34.6	24.1	10.6	16.5	21.4	-10.9
212+50	50	44.6	0.2	13.0	61.0	61.0	24.1	36.9	1.2	1.6	35.4
213+00	50	49.1	0.0	13.0	86.8	86.8	24.1	62.7	0.2	0.2	62.4
213+50	50	27.0	0.7	13.0	70.5	70.5	24.1	46.4	0.6	0.8	45.5
214+00	50	23.0	1.0	13.0	46.3	46.3	24.1	22.2	1.6	2.0	20.2
214+50	50	30.3	3.0	13.0	49.4	49.4	24.1	25.3	3.7	4.8	20.5
215+00	50	33.5	3.1	13.0	59.1	59.1	24.1	35.0	5.6	7.3	27.7
215+50	50	26.9	6.6	13.0	55.9	55.9	24.1	31.9	9.0	11.7	20.2
216+00	50	39.1	8.7	13.0	61.1	61.1	24.1	37.0	14.2	18.4	18.6
216+50	50	17.1	3.2	13.0	52.0	52.0	24.1	28.0	11.0	14.3	13.6
217+00	50	40.8	0.0	13.0	53.6	53.6	24.1	29.5	3.0	3.9	25.7
217+50	50	36.2	0.0	13.0	71.3	71.3	24.1	47.2	0.0	0.0	47.2
218+00	50	53.4	3.5	13.0	83.0	83.0	24.1	58.9	3.2	4.2	54.7
218+50	50	79.8	0.0	13.0	123.3	123.3	24.1	99.3	3.2	4.2	95.0
219+00	50	92.5	0.0	13.0	159.5	159.5	24.1	135.5	0.0	0.0	135.5
219+50	50	84.6	0.0	13.0	164.0	164.0	24.1	139.9	0.0	0.0	139.9
220+00	50	86.7	0.0	13.0	158.6	158.6	24.1	134.5	0.0	0.0	134.5
220+50	50	65.6	0.0	13.0	141.0	141.0	24.1	116.9	0.0	0.0	116.9
220+54	4	65.6	0.0	13.0	9.7	9.7	1.9	7.8	0.0	0.0	7.8
		I		COLUMN TOTALS		3065.8	1019.5	2046.3		349.3	1697.0

EARTHWORK DATA

COUNTY: DUNN I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\090101-EW.DWG LAYOUT NAME - 02-ew PLOT BY: BRIAN GENSKOW PLOT NAME : FILE NAME : PLOT DATE : 1/5/2018 8:49 AM

PROJECT NO: 7996-00-09 HWY: LOCAL STREET SHEET

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

³⁾ THE MASS HAUL = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

### **12TH AVENUE - INCREMENTAL VOLUME**

			EN	ND AREA			COMMON		FI	LL	
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
15+25		43.2	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15+50	25	23.2	1.3	12.0	39.0	39.0	10.6	28.3	0.6	0.8	27.6
15+97	47	16.1	3.1	12.0	34.2	34.2	20.9	13.3	3.8	5.0	8.3
					13TH 9	STREET					
16+17		38.7	0.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16+50	33	41.3	0.0	8.0	48.9	48.9	9.8	39.1	0.3	0.4	38.7
17+00	50	33.8	0.0	8.0	69.5	69.5	14.8	54.7	0.0	0.0	54.7
17+25	25	23.6	0.0	8.0	26.6	26.6	7.4	19.2	0.0	0.0	19.2
				COLUMN TOTALS		218.2	63.5	154.7	4.7	6.2	148.5

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

### 11TH AVENUE - INCREMENTAL VOLUME

			Eľ	ND AREA	COMMON					FILL		
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS	
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL	
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)	
11TH AVE	WEST											
20+50		39.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21+00	50	24.8	2.1	12.0	59.1	59.1	21.3	37.8	1.9	2.5	35.3	
					13TH 9	STREET						
11TH AVE	EAST											
25+18		61.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25+50	12	66.6	0.0	8.0	28.4	28.4	4.2	24.1	0.0	0.0	24.1	
26+00	50	22.3	0.0	8.0	82.3	82.3	14.8	67.5	0.0	0.0	67.5	
				COLUMN TOTALS		169.7	40.3	129.4	1.9	2.5	126.9	

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

COUNTY: DUNN Ε PROJECT NO: 7996-00-09 HWY: LOCAL STREET EARTHWORK DATA SHEET

1/5/2018 8:49 AM

I:\CLIENTS-MENO\M\M0055 CITY OF MENOMONIE\803 MAIN STREET - STREET & UTILITY IMPROVEMENTS\79960008\SHEETSPLAN\090101-EW.DWG LAYOUT NAME - 03-ew FILE NAME :

PLOT NAME :

²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

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### **10TH AVENUE - INCREMENTAL VOLUME**

			EN	ID AREA			COMMON		FI	LL	
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
10TH AVE WEST											
30+12		27.3	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30+50	38	28.3	0.0	8.0	39.1	39.1	11.3	27.9	0.0	0.0	27.9
30+89	39	28.3	10.0	8.0	40.9	40.9	11.6	29.3	7.2	9.4	19.9
					13TH 9	STREET					
10TH AVE	EAST										•
35+18		30.2	2.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35+50	32	32.7	0.0	9.0	37.3	37.3	10.7	26.6	1.5	2.0	24.6
35+69	19	34.0	0.0	9.0	23.5	23.5	6.3	17.1	0.0	0.0	17.1
				COLUMN TOTALS		140.7	39.8	100.9	8.8	11.4	89.5

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

### **9TH AVE - INCREMENTAL VOLUME**

			END ARE	:A		FILL					
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
40+35		18.1	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40+50	15	20.8	0.1	6.0	10.8	10.8	3.3	7.5	0.0	0.0	7.4
40+63	13	24.2	0.0	7.0	10.8	10.8	3.1	7.7	0.0	0.0	7.7
				COLUMN TOTALS		21.6	6.5	15.2	0.1	0.1	15.1

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

PROJECT NO: 7996-00-09 HWY: LOCAL STREET COUNTY: DUNN EARTHWORK DATA SHEET

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³⁾ THE MASS HAUL = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

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### **WILSON AVENUE - INCREMENTAL VOLUME**

			END ARE	4		(		FILI	L		
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
WILSON A	VE WEST										
45+50		40.4	0.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46+00	50	54.8	0.0	12.0	88.1	88.1	22.2	65.9	0.2	0.2	65.7
46+14	14	49.2	0.0	15.0	27.0	27.0	7.0	20.0	0.0	0.0	20.0
					13TH STRE	ET					
WILSON A	VE EAST										
50+18		23.0	4.6	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50+50	32	30.6	4.6	10.0	31.8	31.8	15.4	16.4	5.5	7.1	9.3
51+00	50	16.9	8.3	10.0	44.0	44.0	18.5	25.5	11.9	15.5	9.9
51+20	20	30.5	1.6	10.0	22.6	22.6	7.4	15.2	2.3	3.0	12.2
				COLUMN TOTALS		213.5	70.6	142.9	19.9	25.8	117.1

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

### OAKWOOD BLVD - INCREMENTAL VOLUME

			END ARE	Α		C		FILL			
				SALVAGED/UNUSABLE		1.0	SALVAGED/UNUSABLE	AVAILABLE		1.3	MASS
	DISTANCE	COMMON	FILL	PAVEMENT MATERIAL	RAW	ADJ	PAVEMENT MATERIAL	MATERIAL	RAW	ADJ	HAUL
STATION	FT	SF	SF	SF (1)	CY	CY	CY	CY (2)	CY	CY	CY (3)
60+42		25.9	0.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60+50	8	28.2	0.2	7.0	8.0	8.0	2.1	5.9	0.1	0.1	5.9
61+00	50	41.1	0.0	7.0	64.2	64.2	13.0	51.2	0.2	0.2	51.0
61+50	50	45.0	0.0	15.0	79.7	79.7	20.4	59.4	0.0	0.0	59.4
61+68	18	44.1	0.0	17.0	24.1	24.1	8.0	16.1	0.1	0.1	16.0
				COLUMN TOTALS		176.0	43.4	132.6	0.3	0.4	132.2

¹⁾ SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON.

COUNTY: DUNN PROJECT NO: 7996-00-09 HWY: LOCAL STREET EARTHWORK DATA

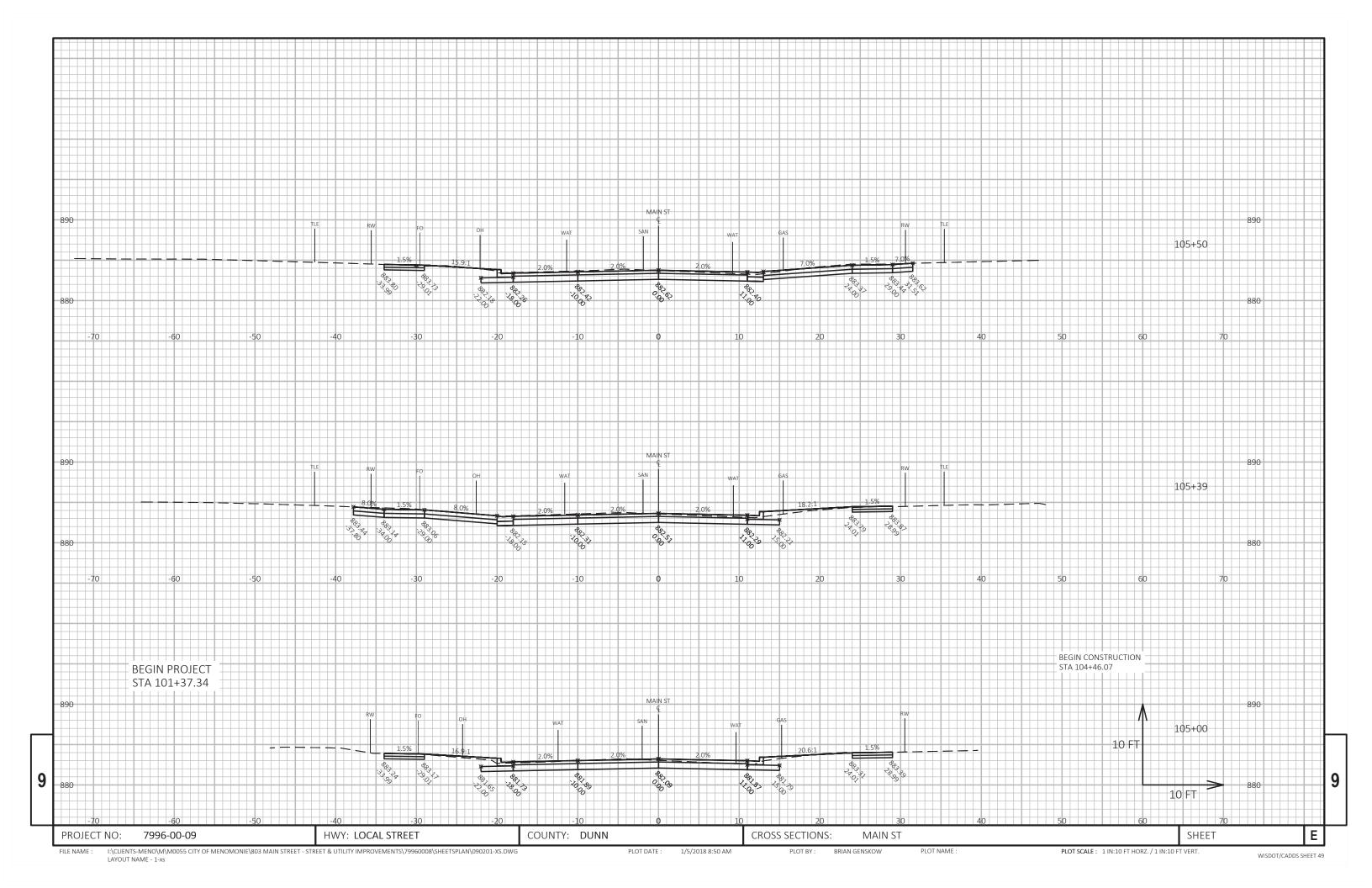
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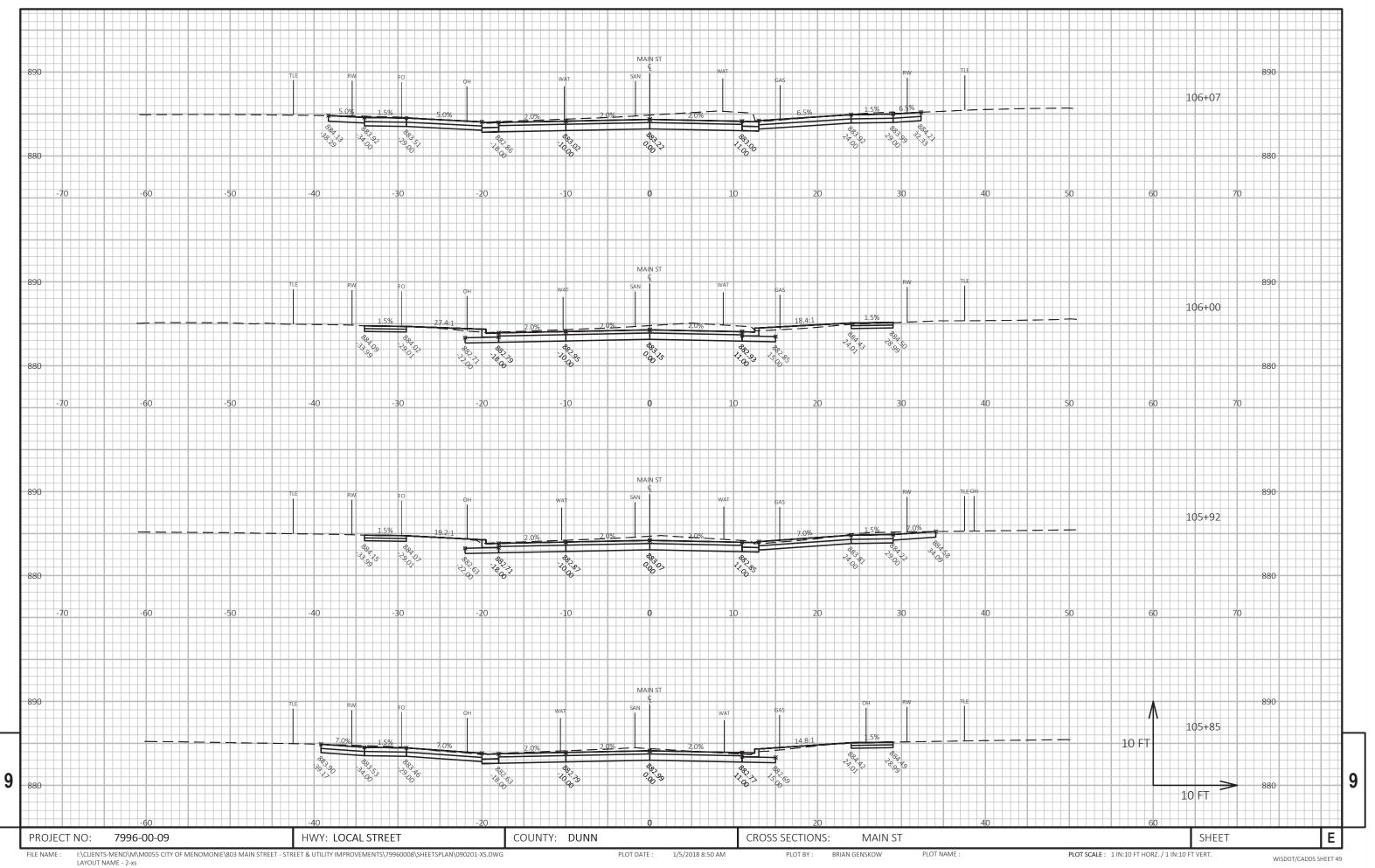
²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

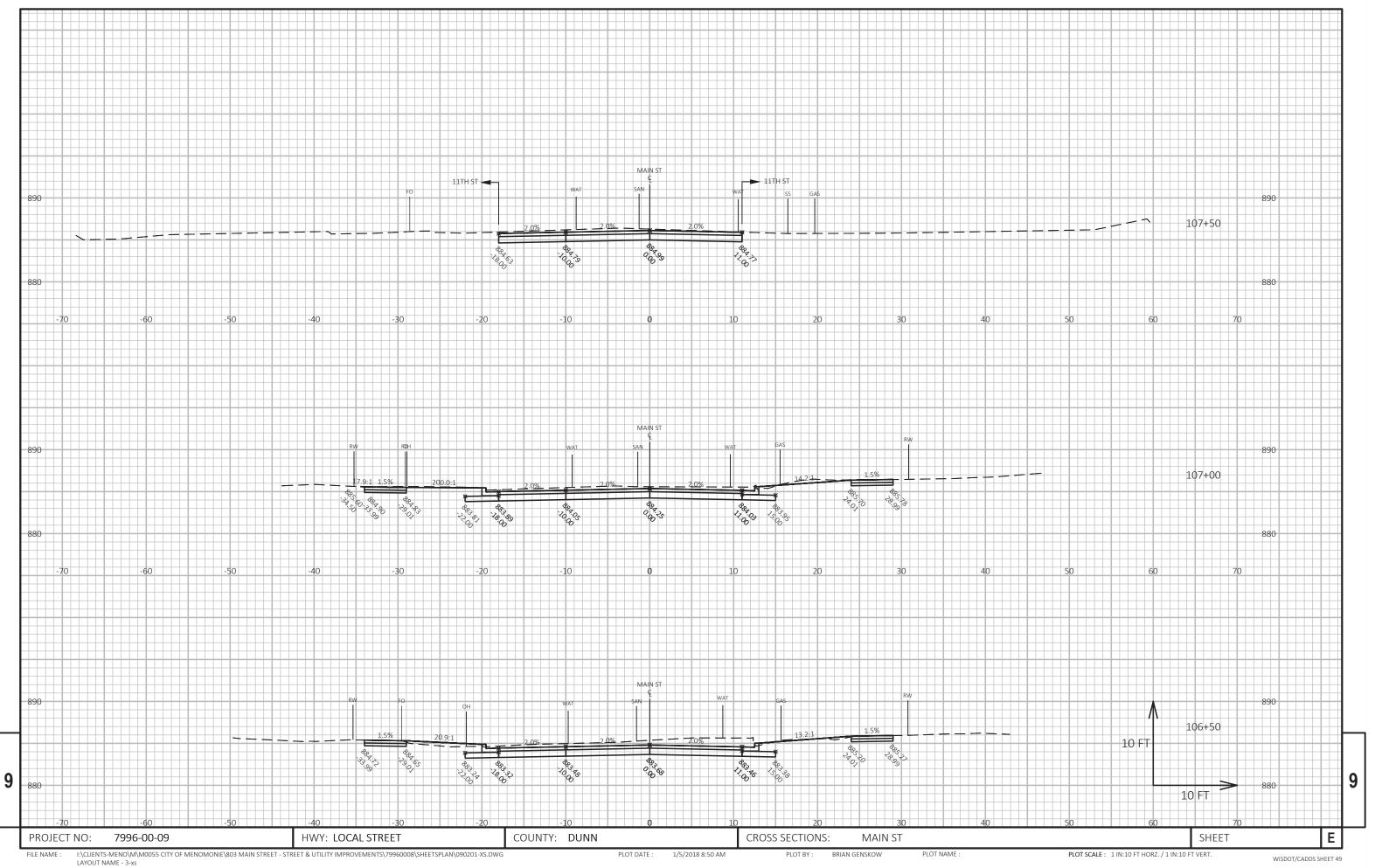
³⁾ THE MASS HAUL = A + OR - QUANTITY CALCULATED FOR THE DIVISON. A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL.

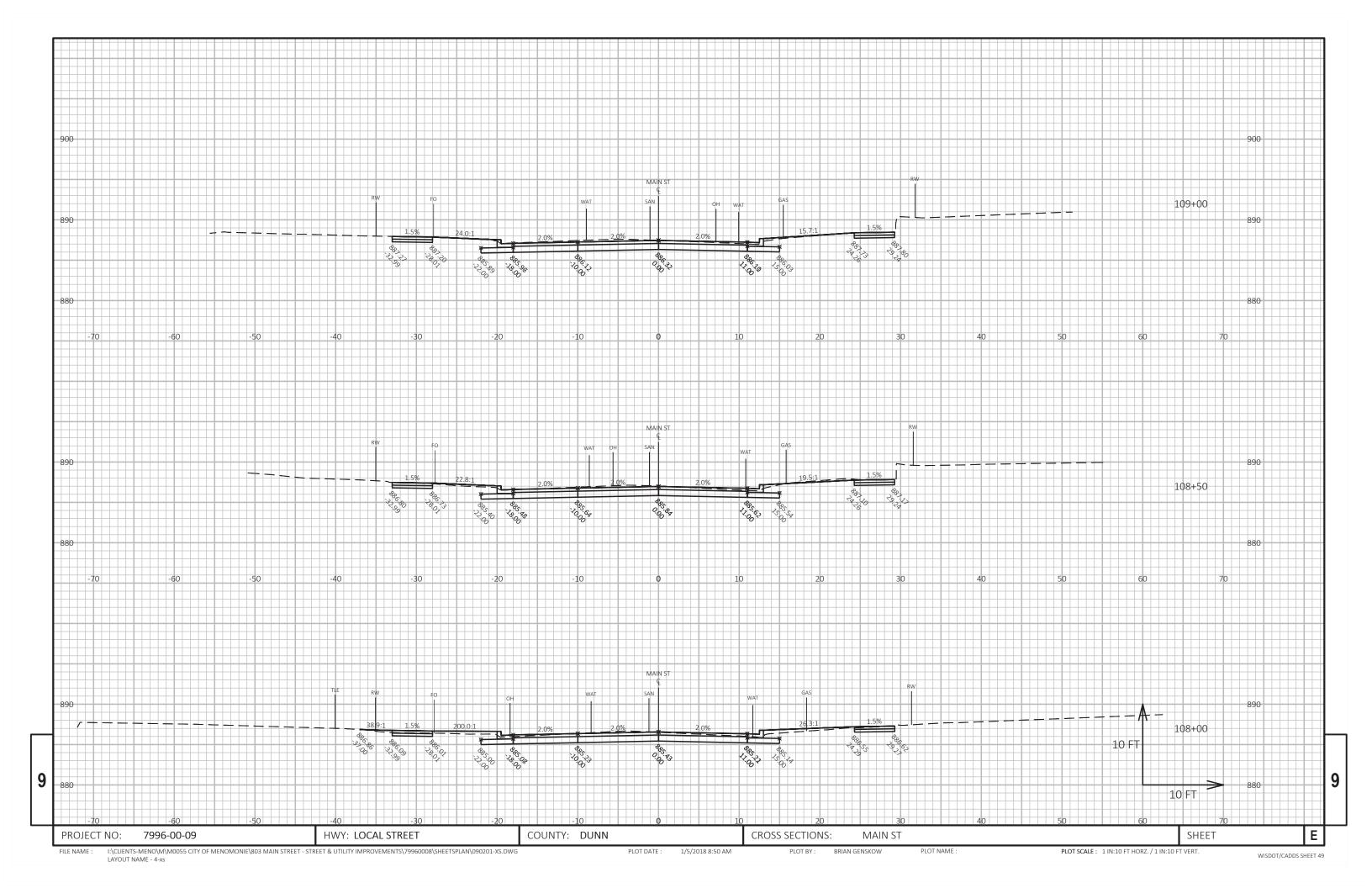
²⁾ AVAILABLE MATERIAL = CUT MINUS THE SALVAGED/UNUSABLE PAVEMENT MATERIAL

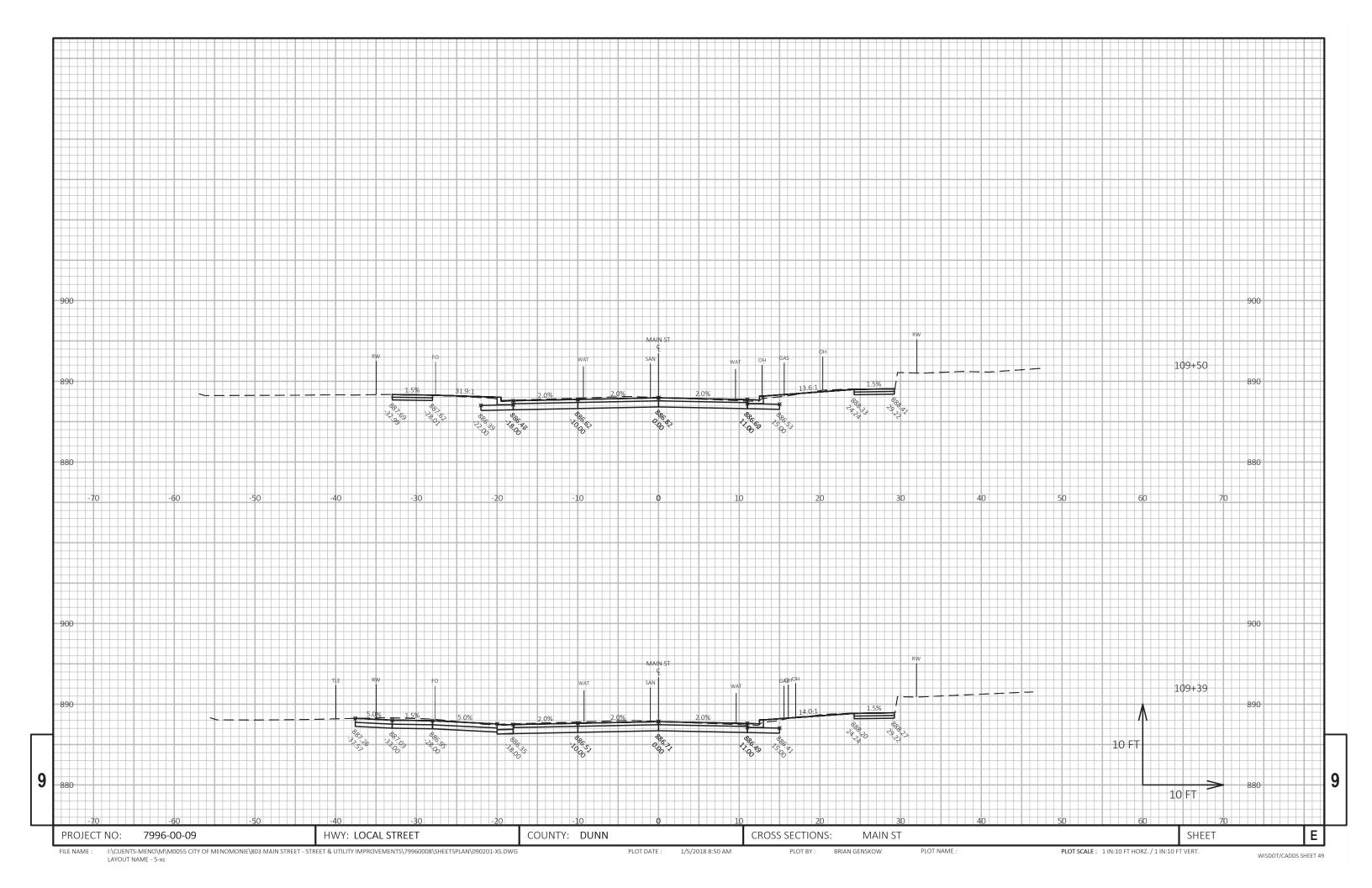
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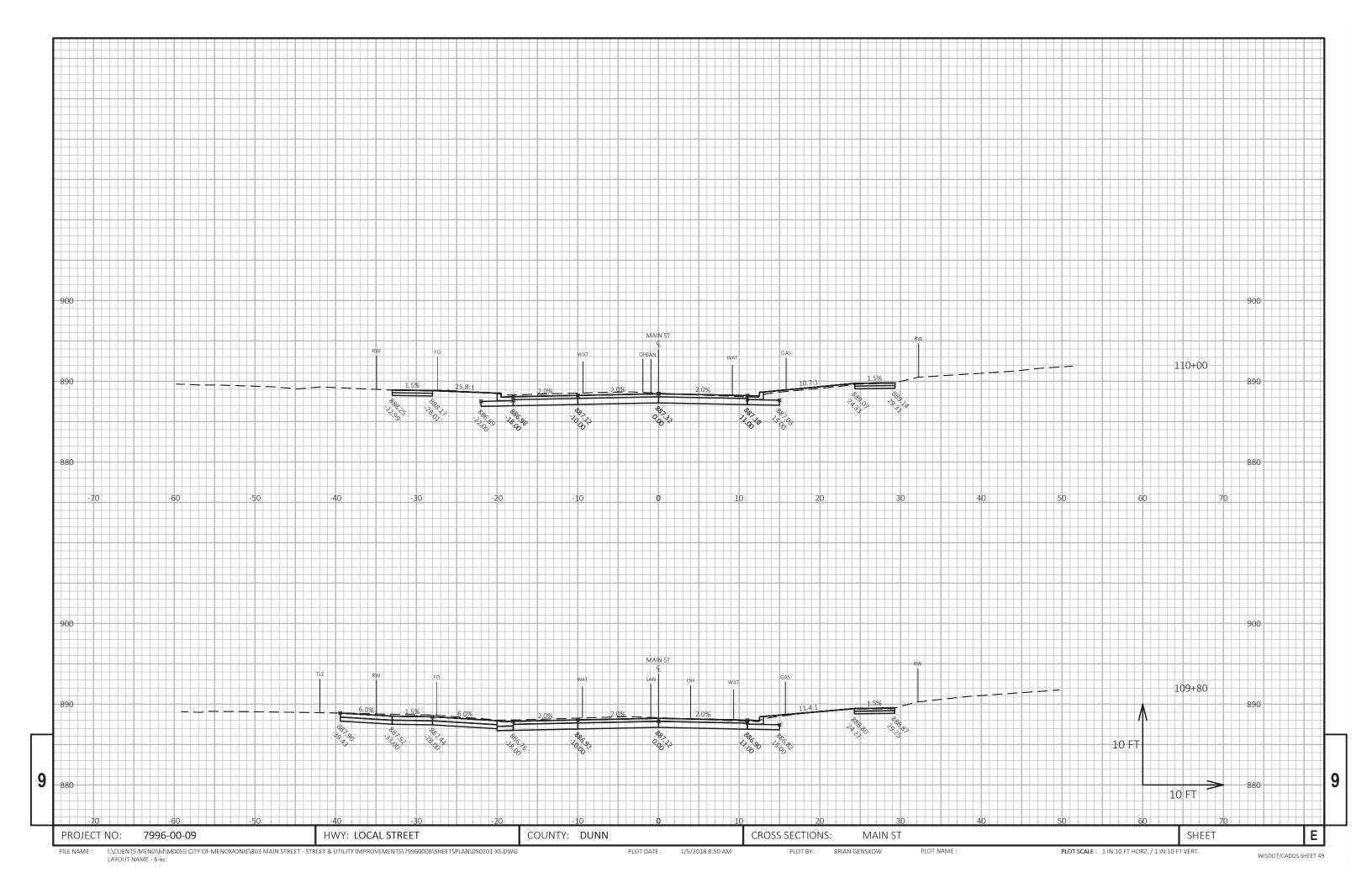


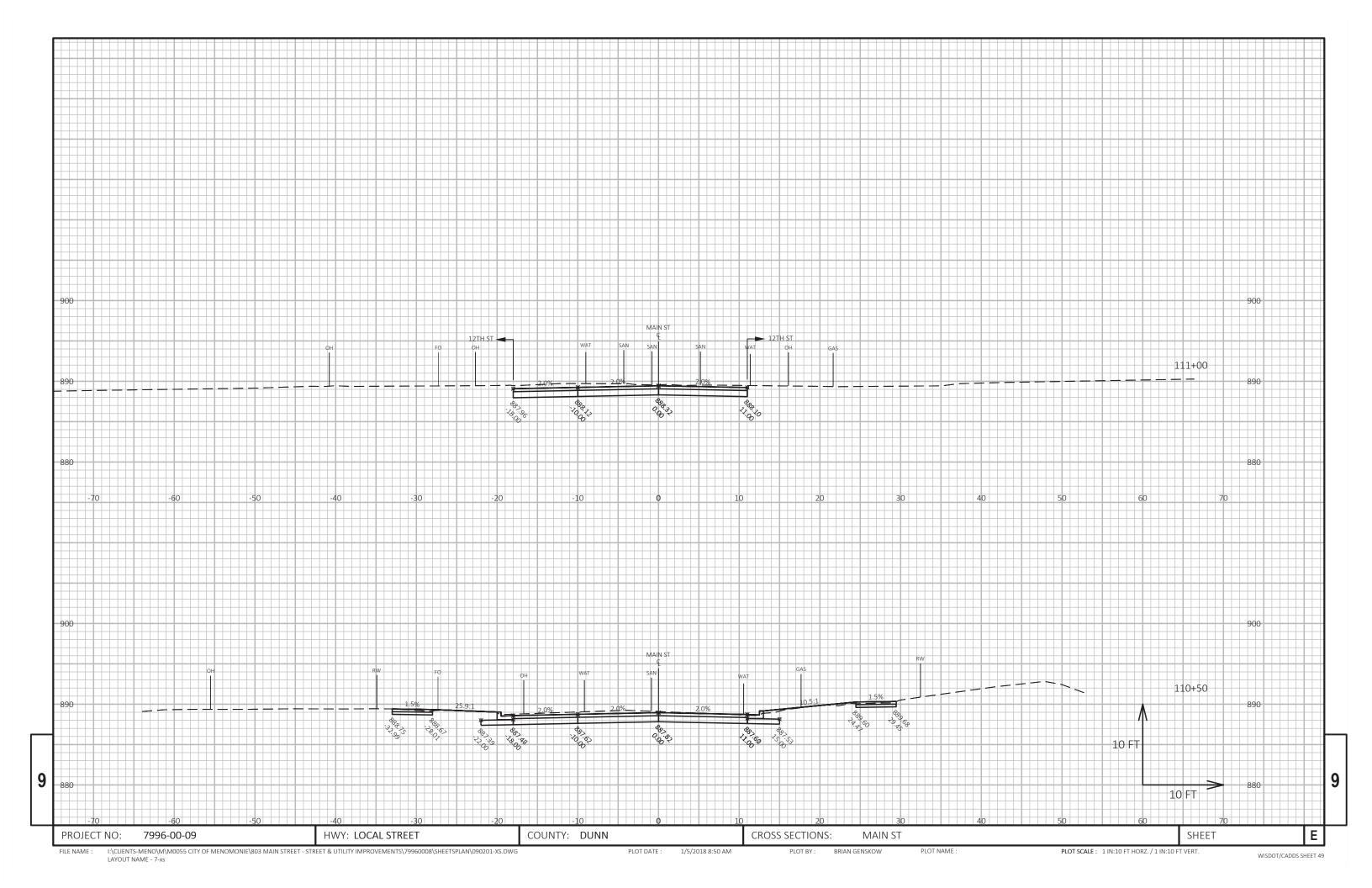


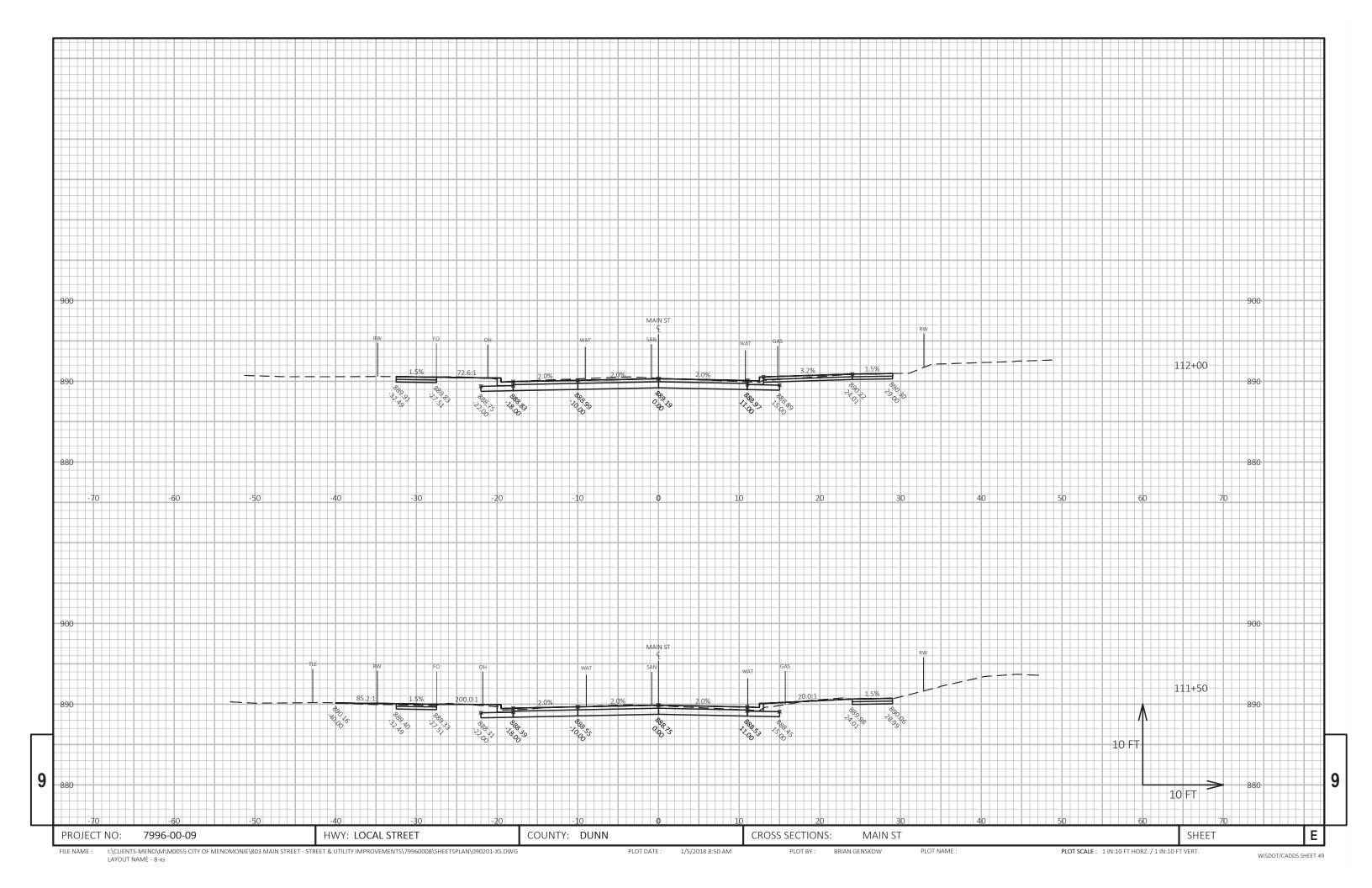


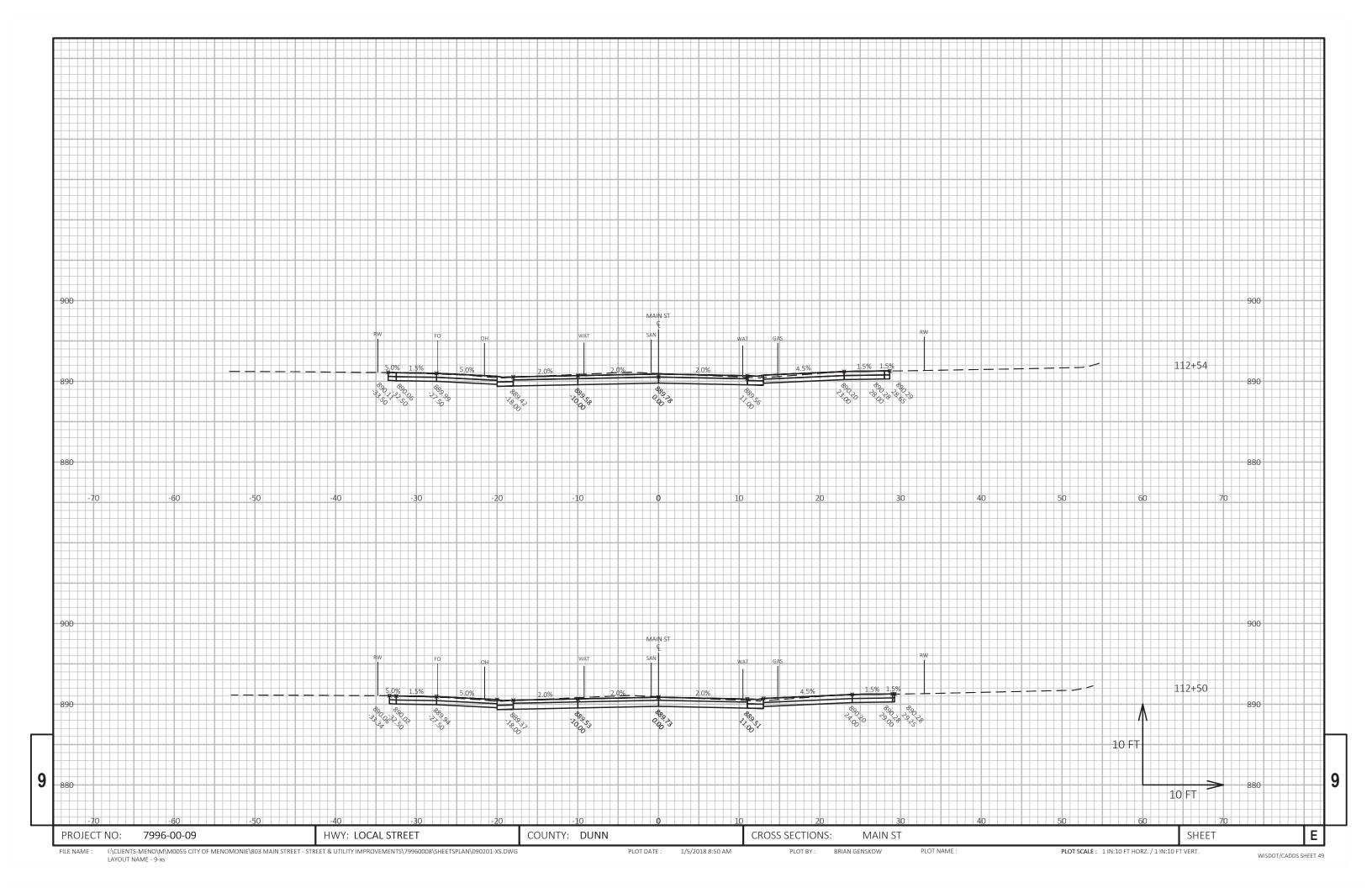


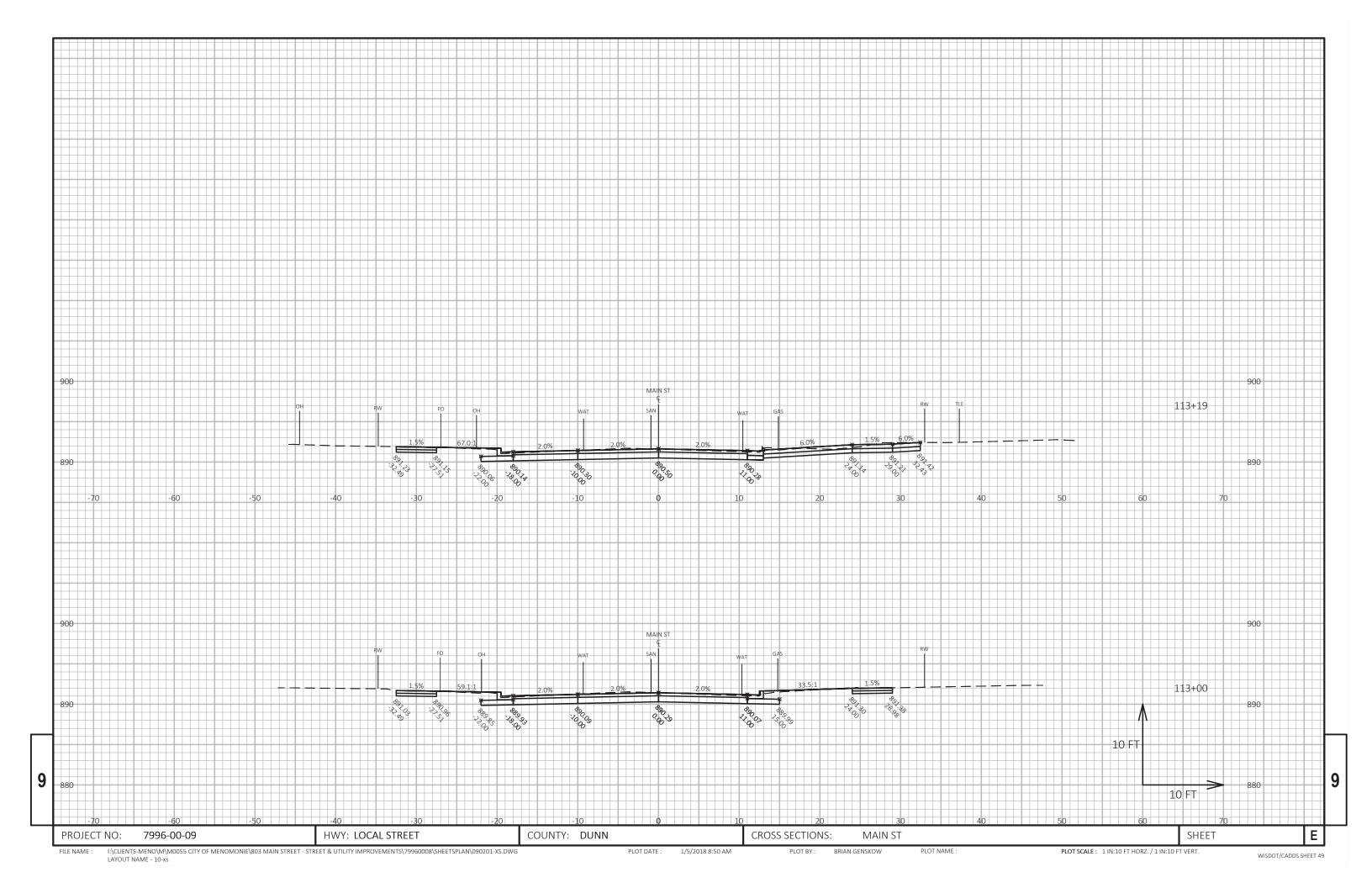


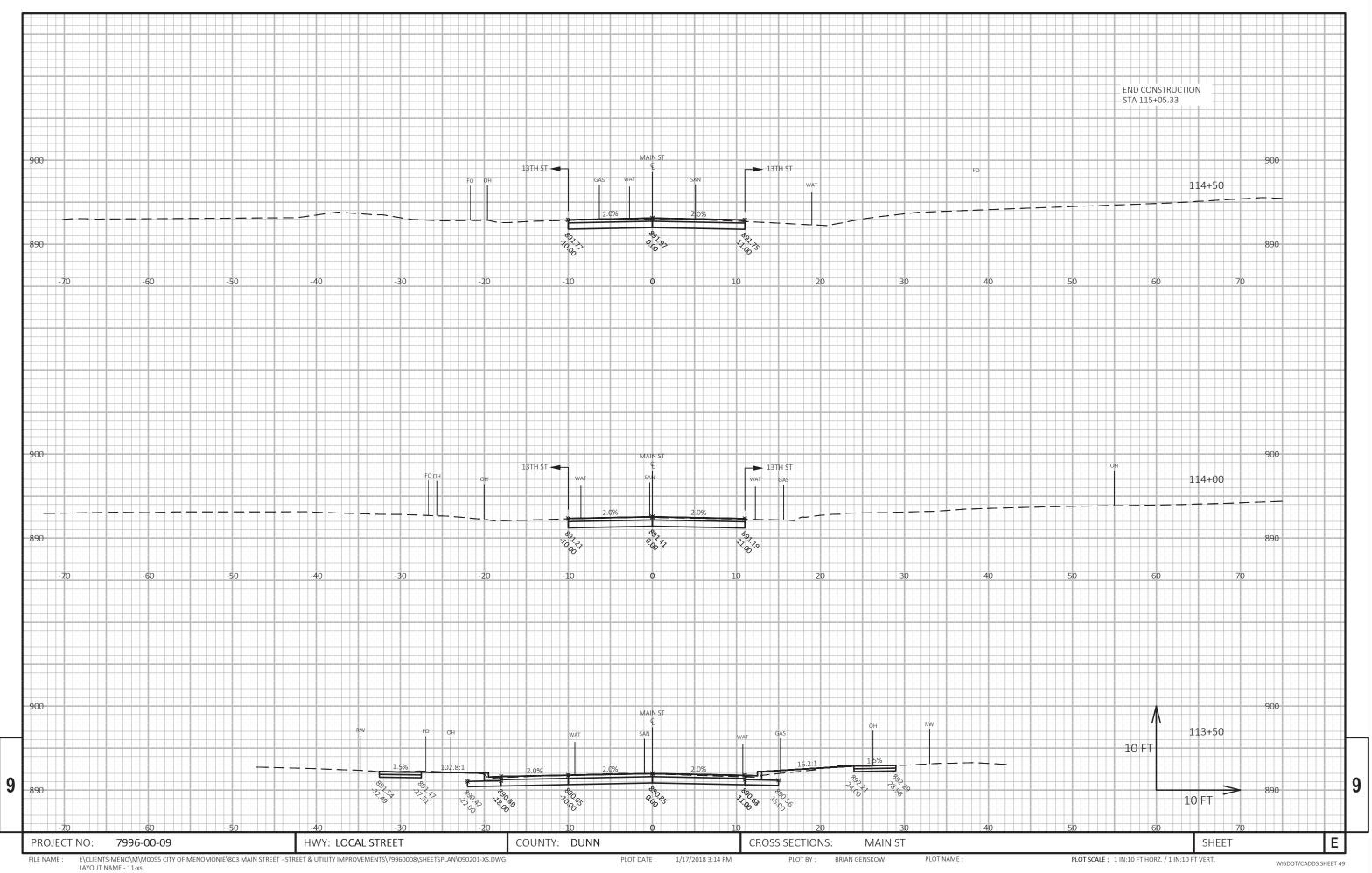


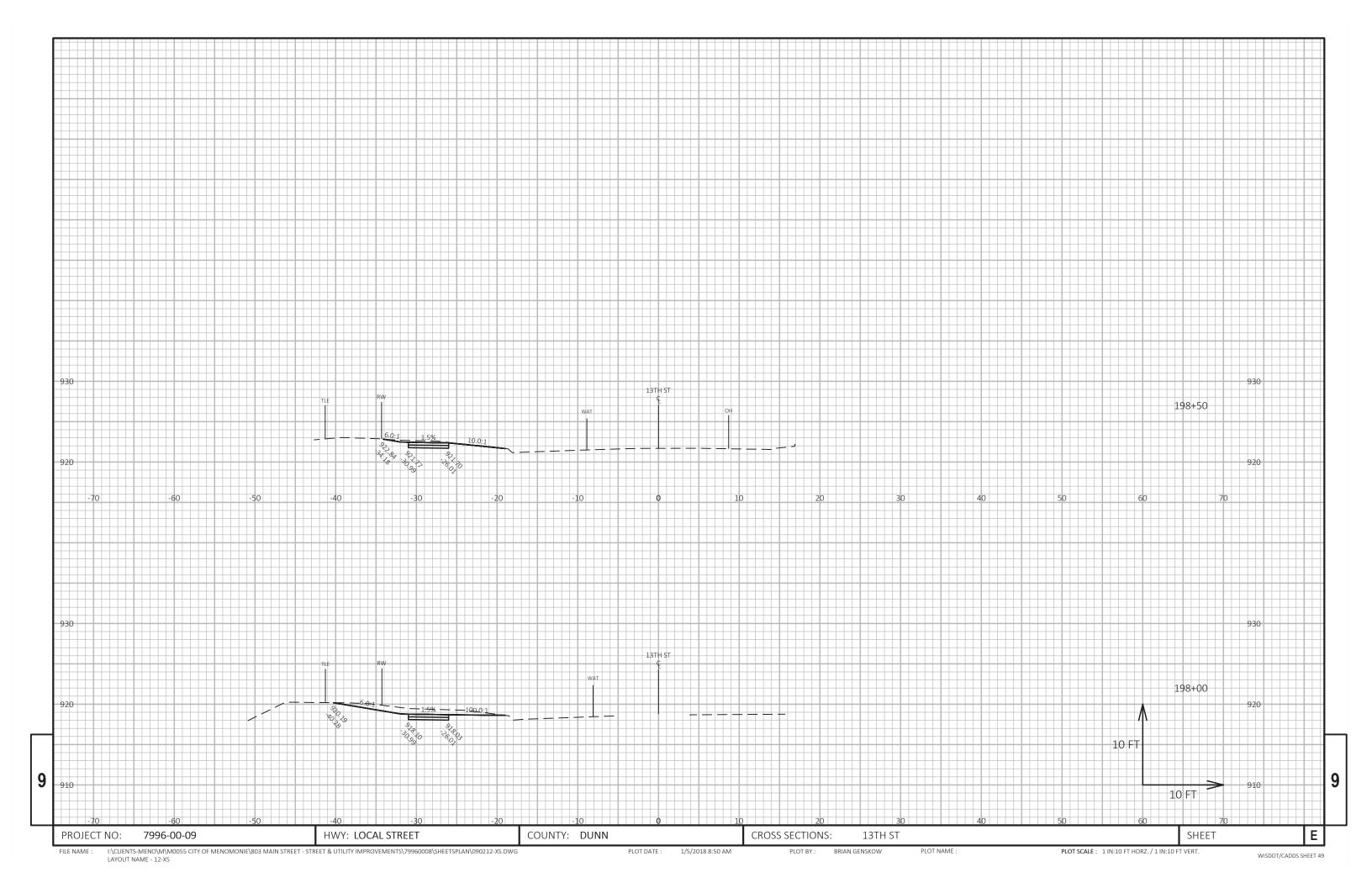


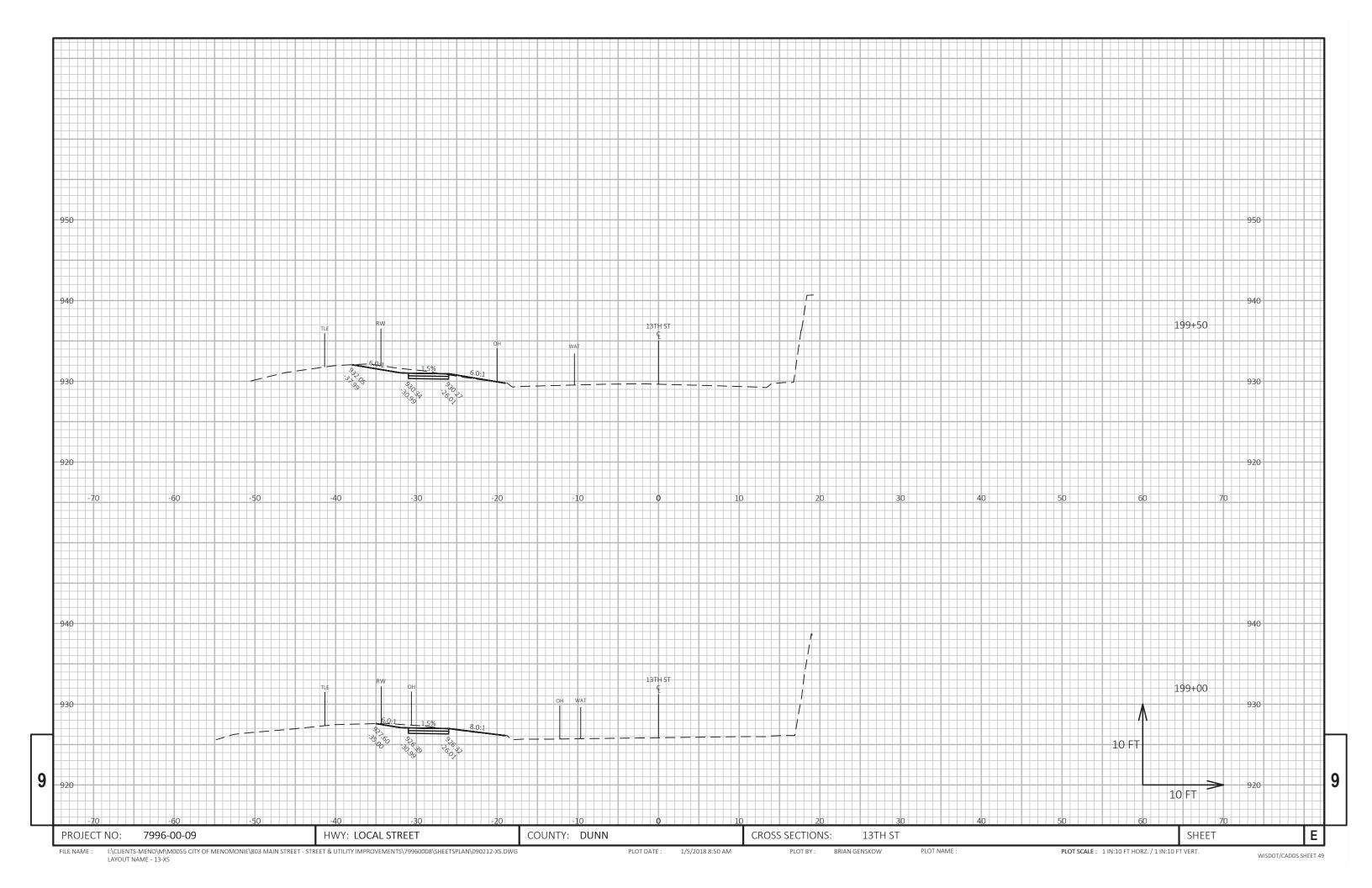


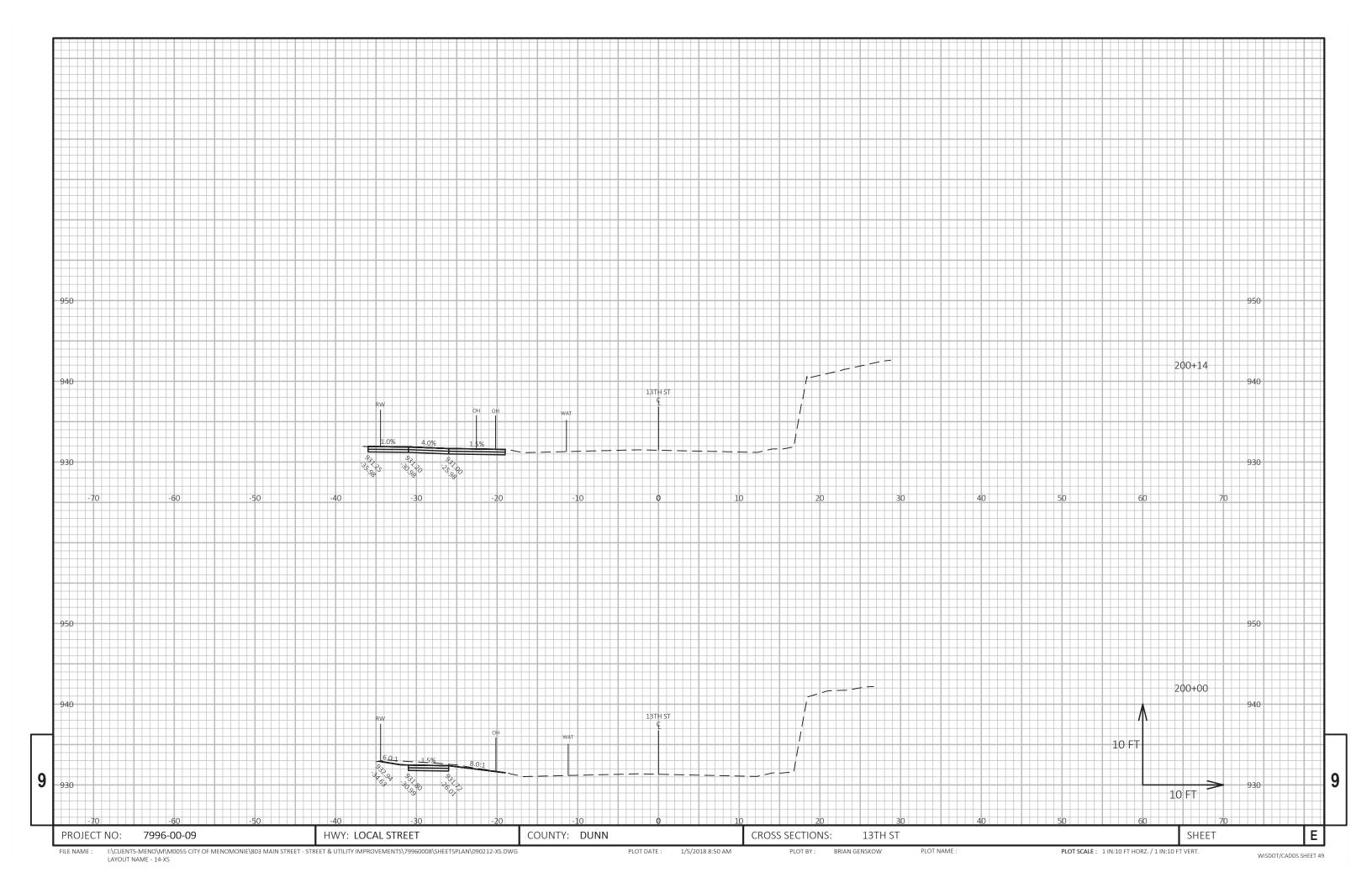


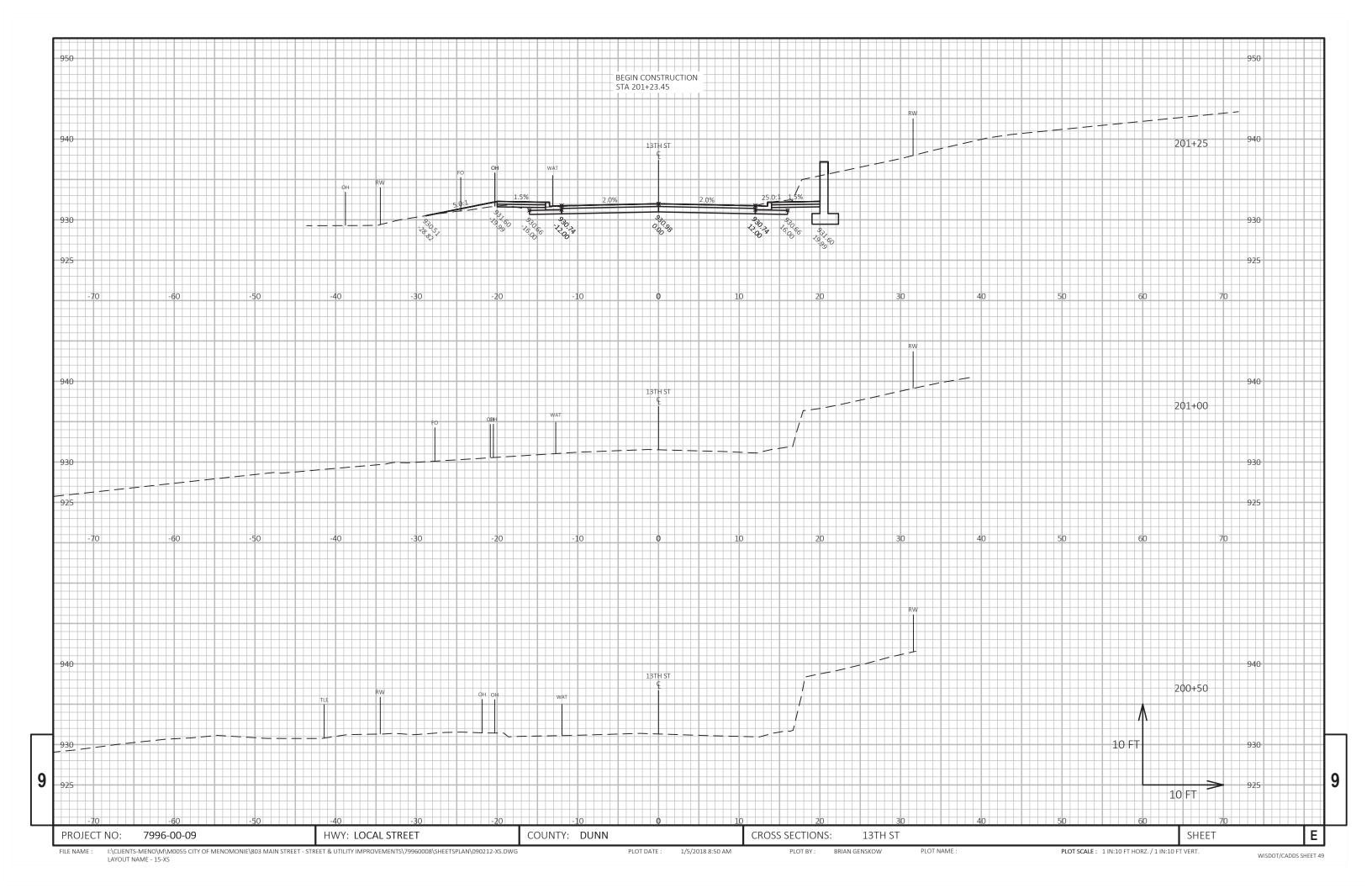


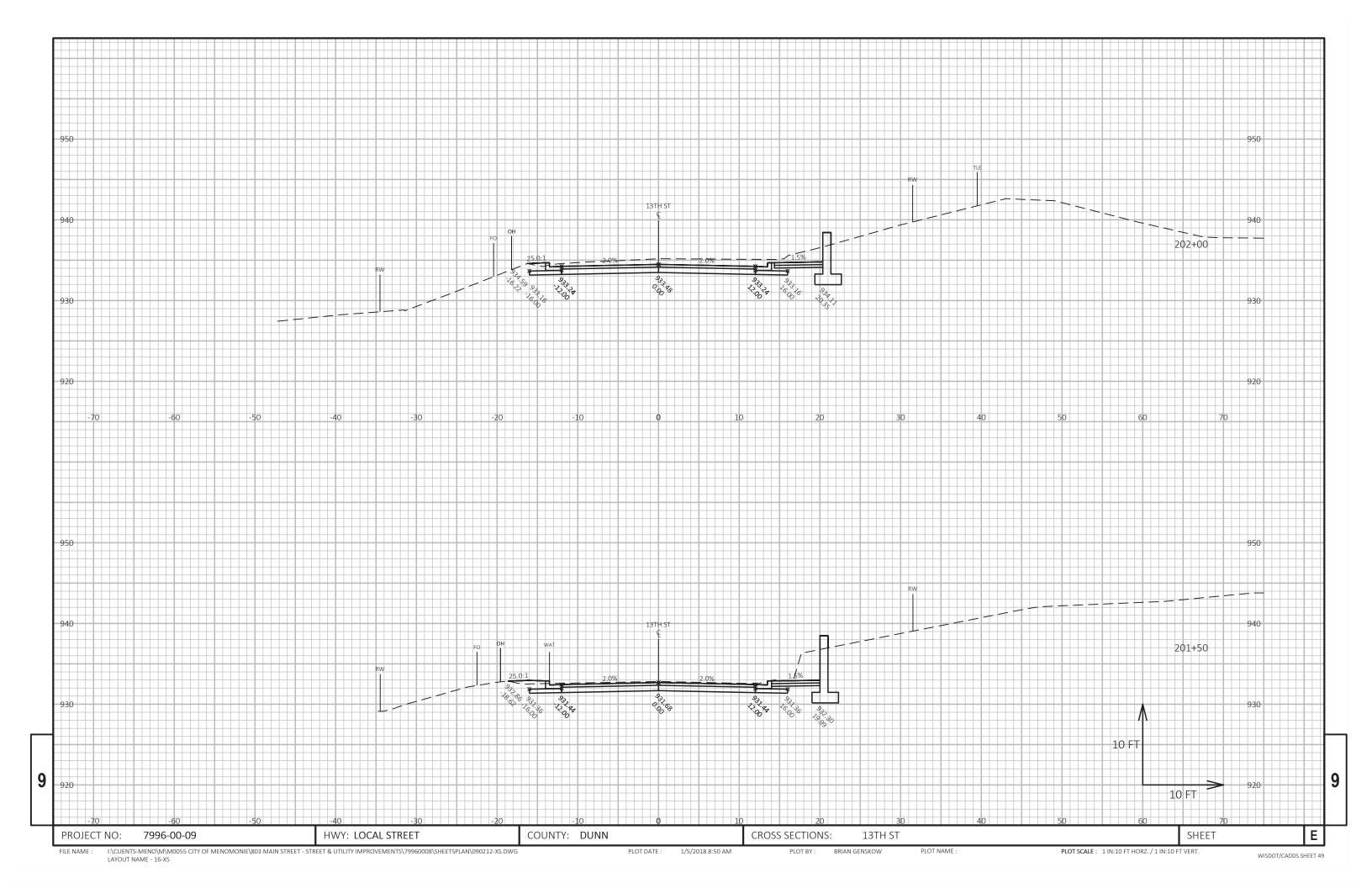


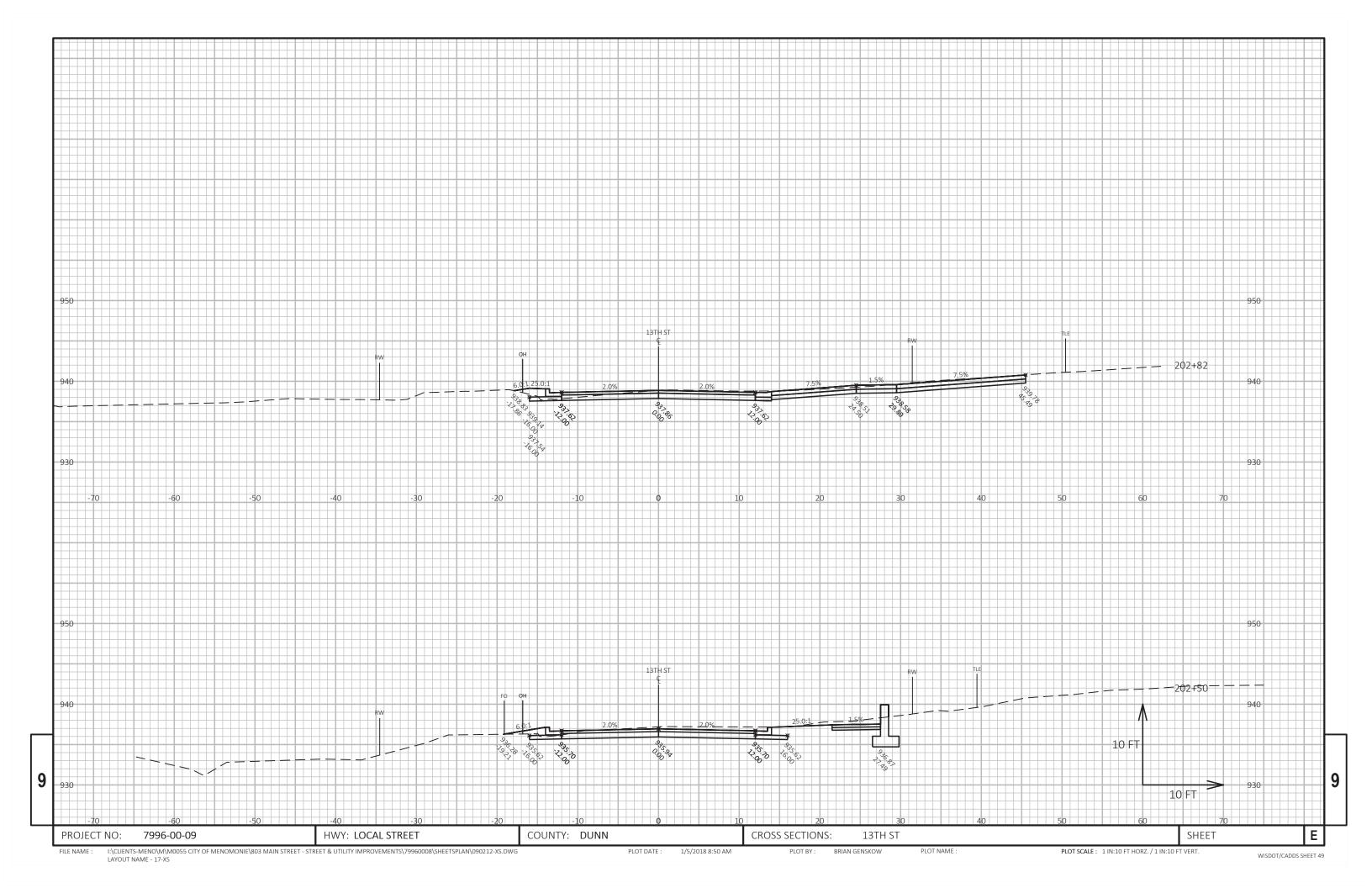


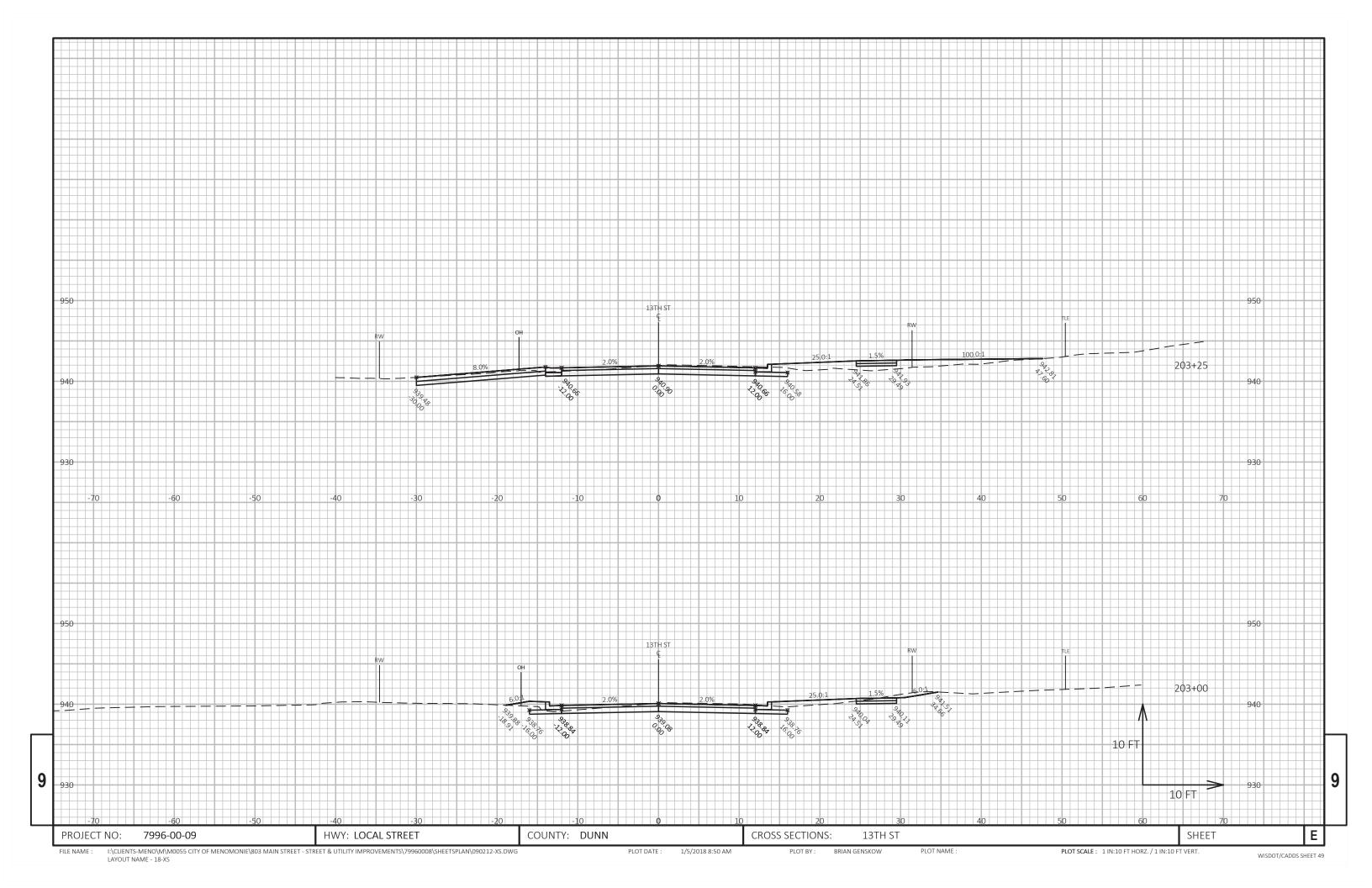


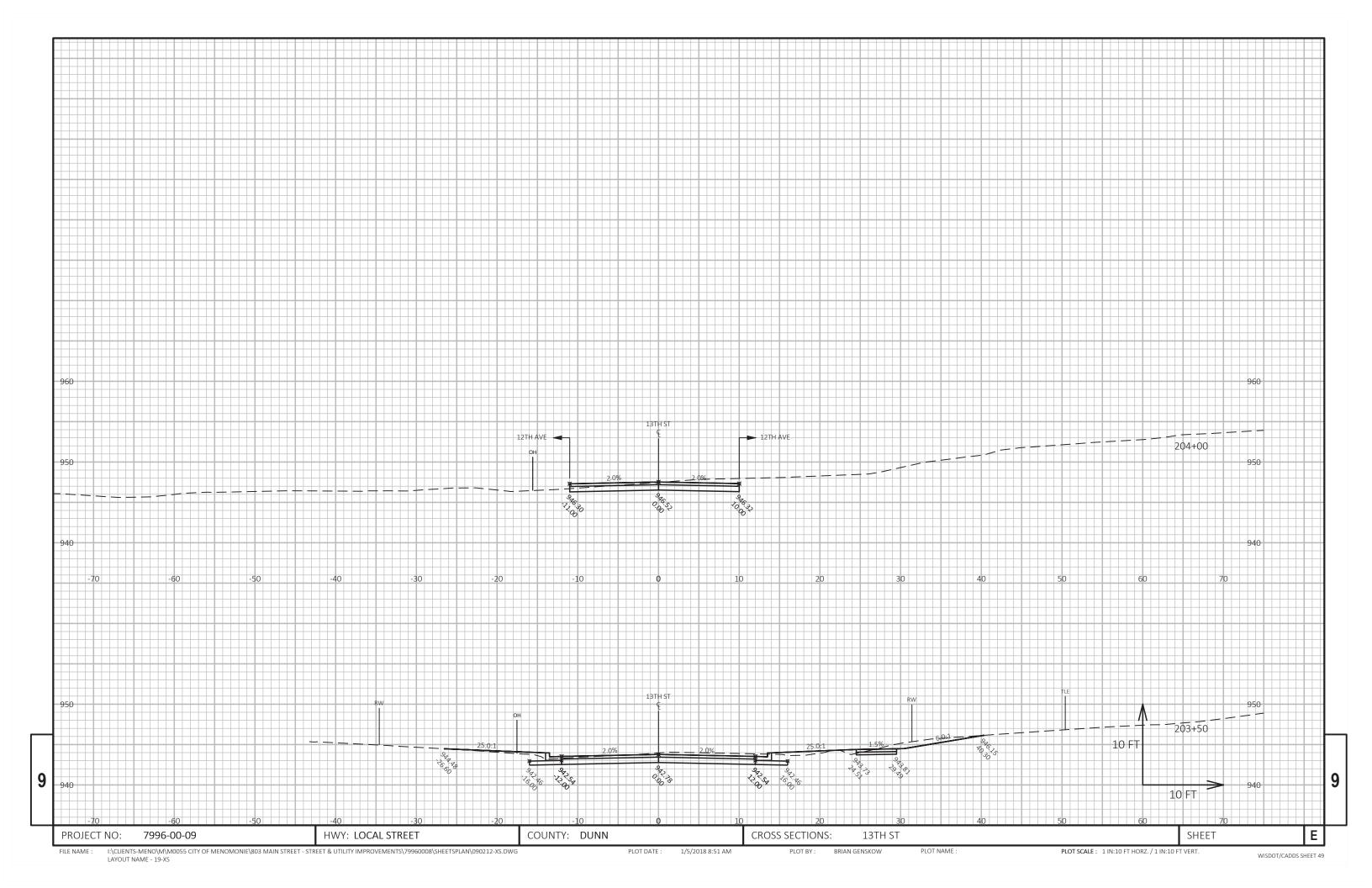


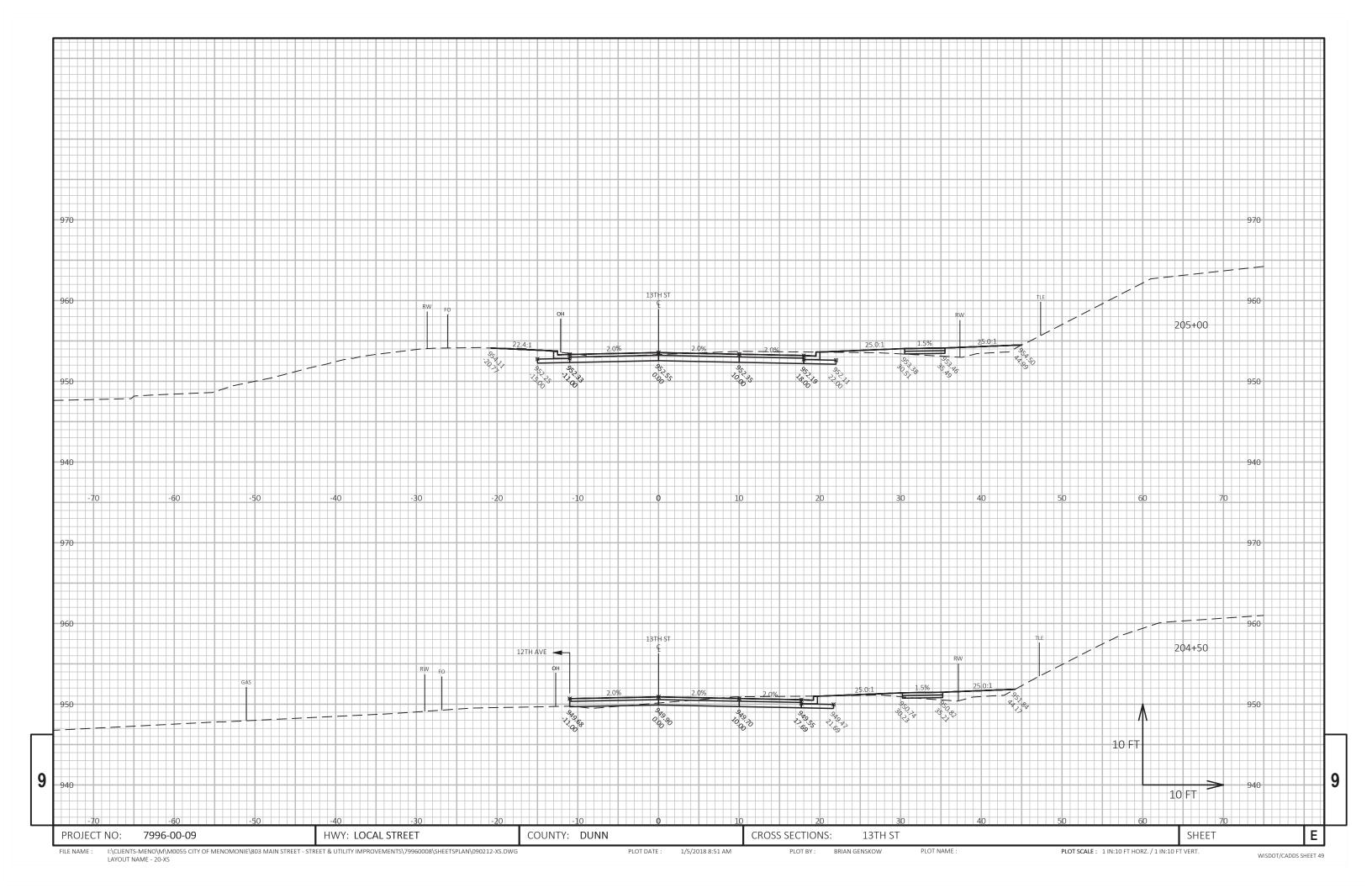


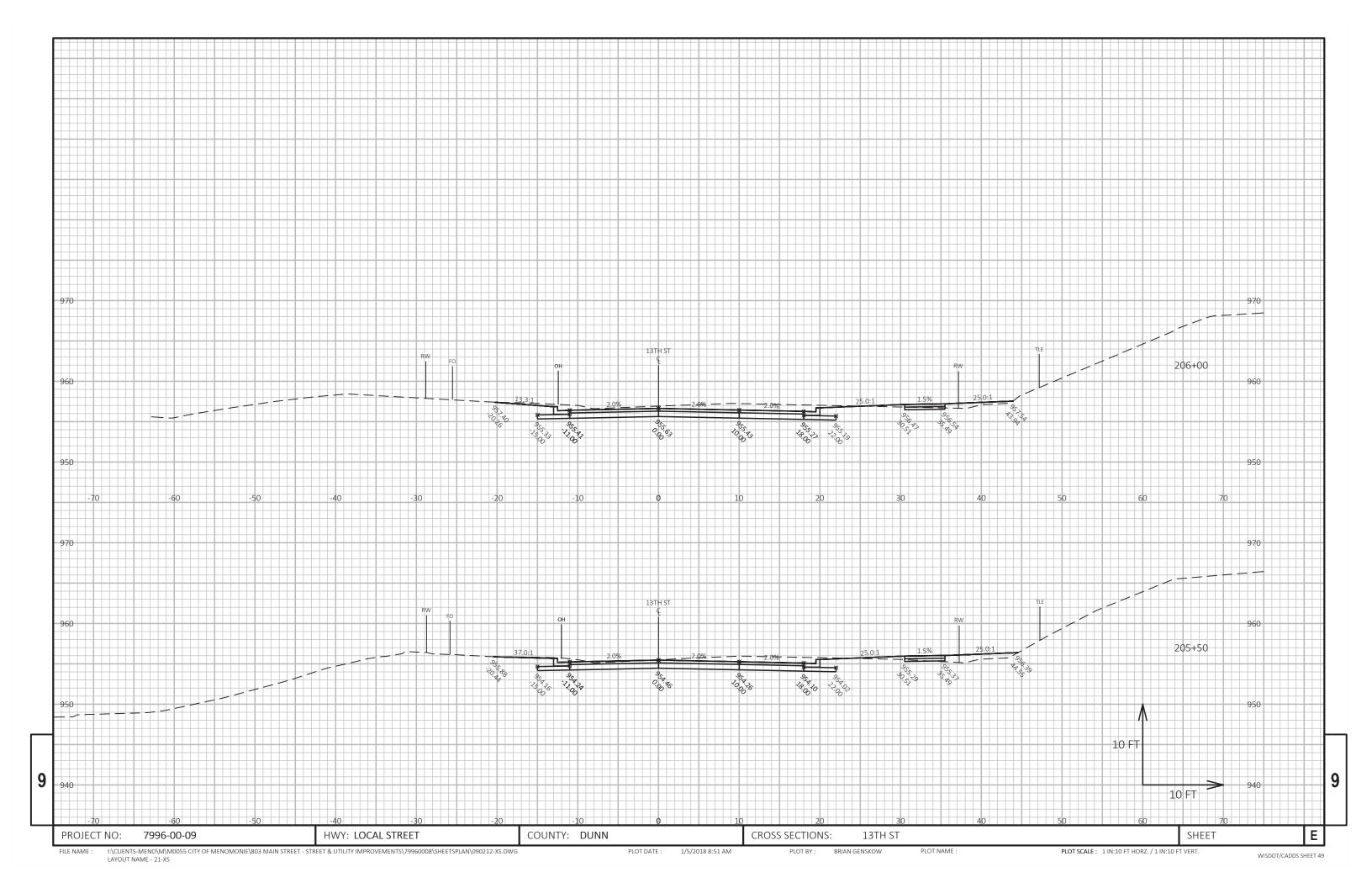


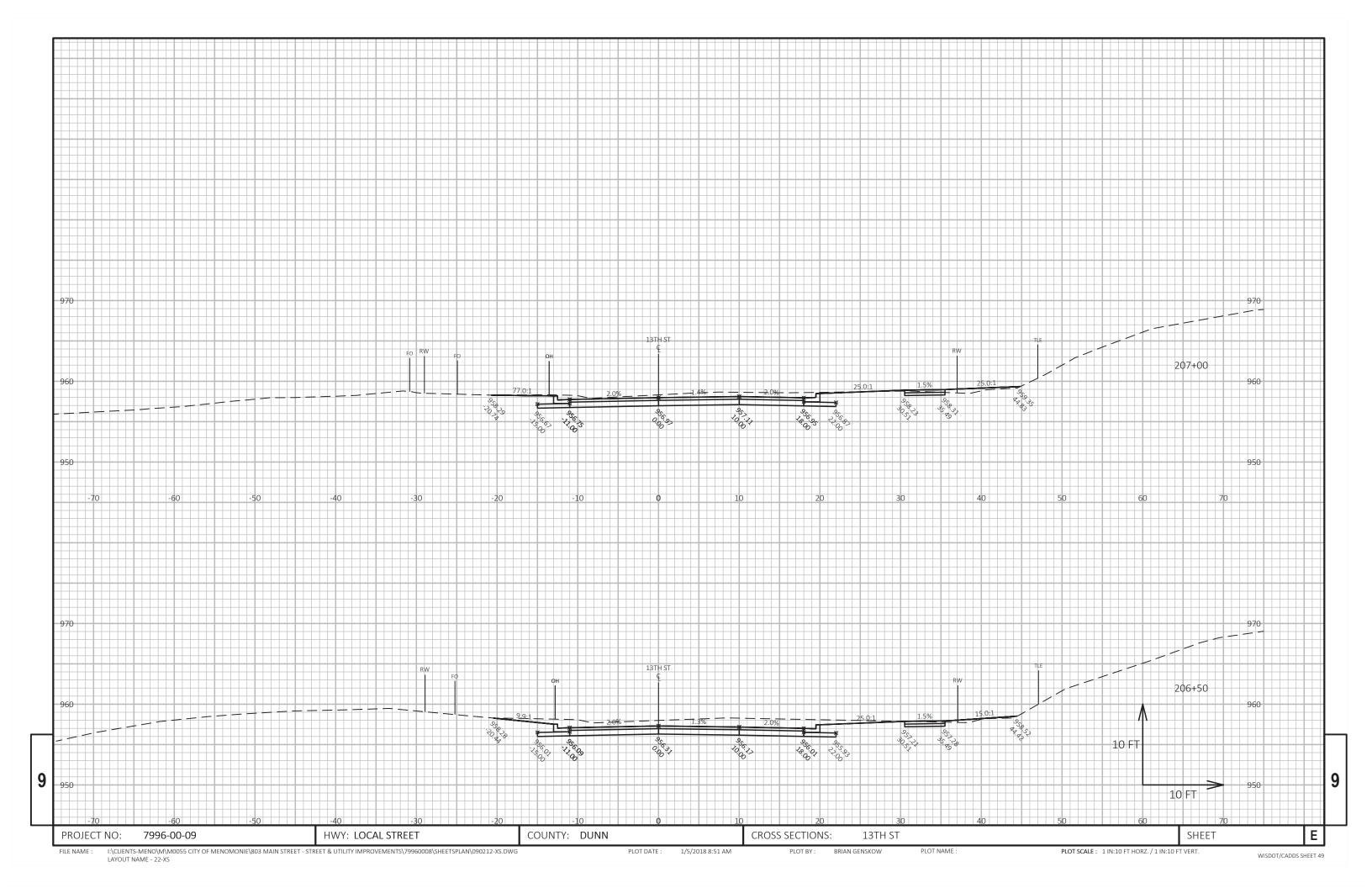


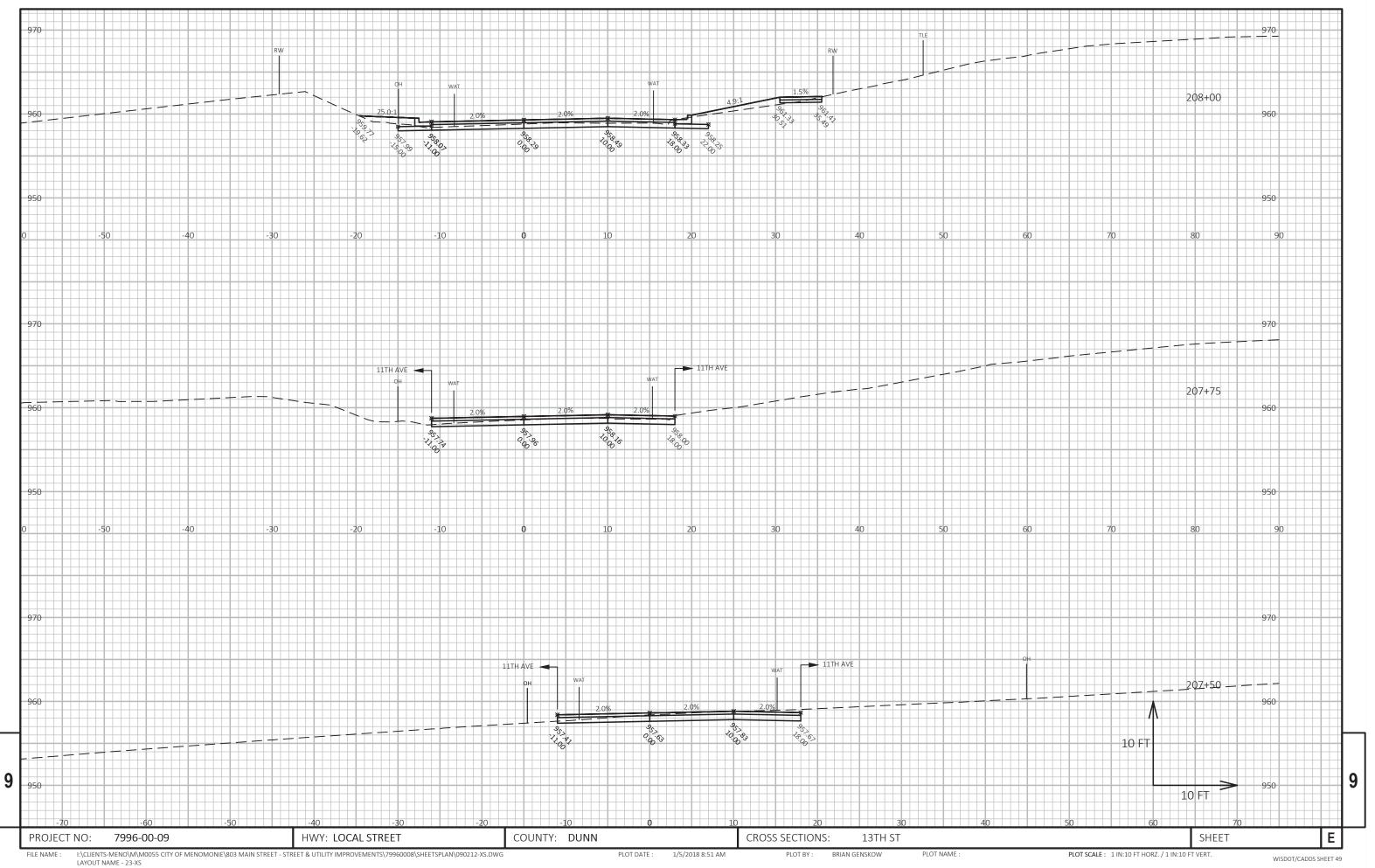


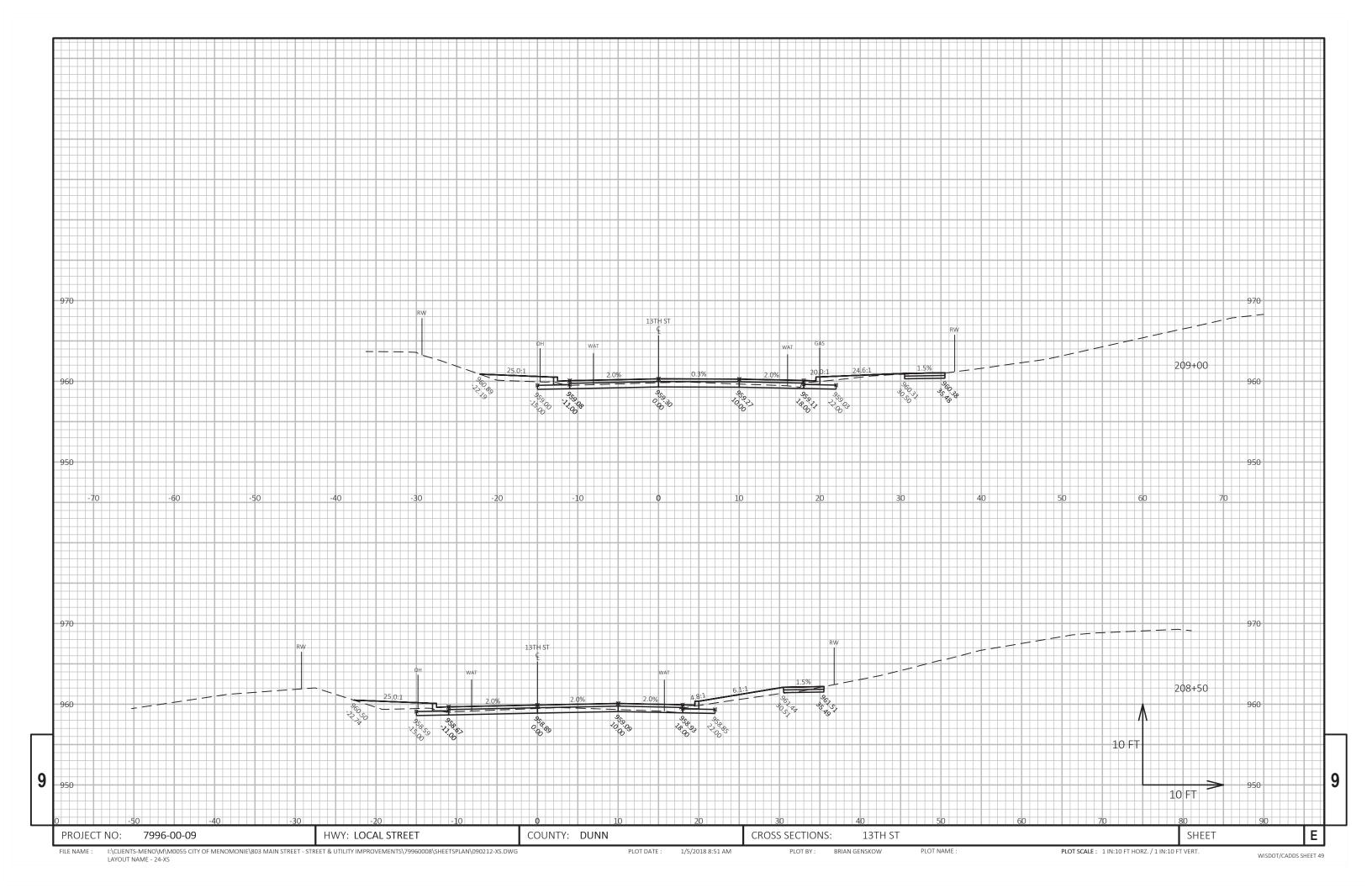


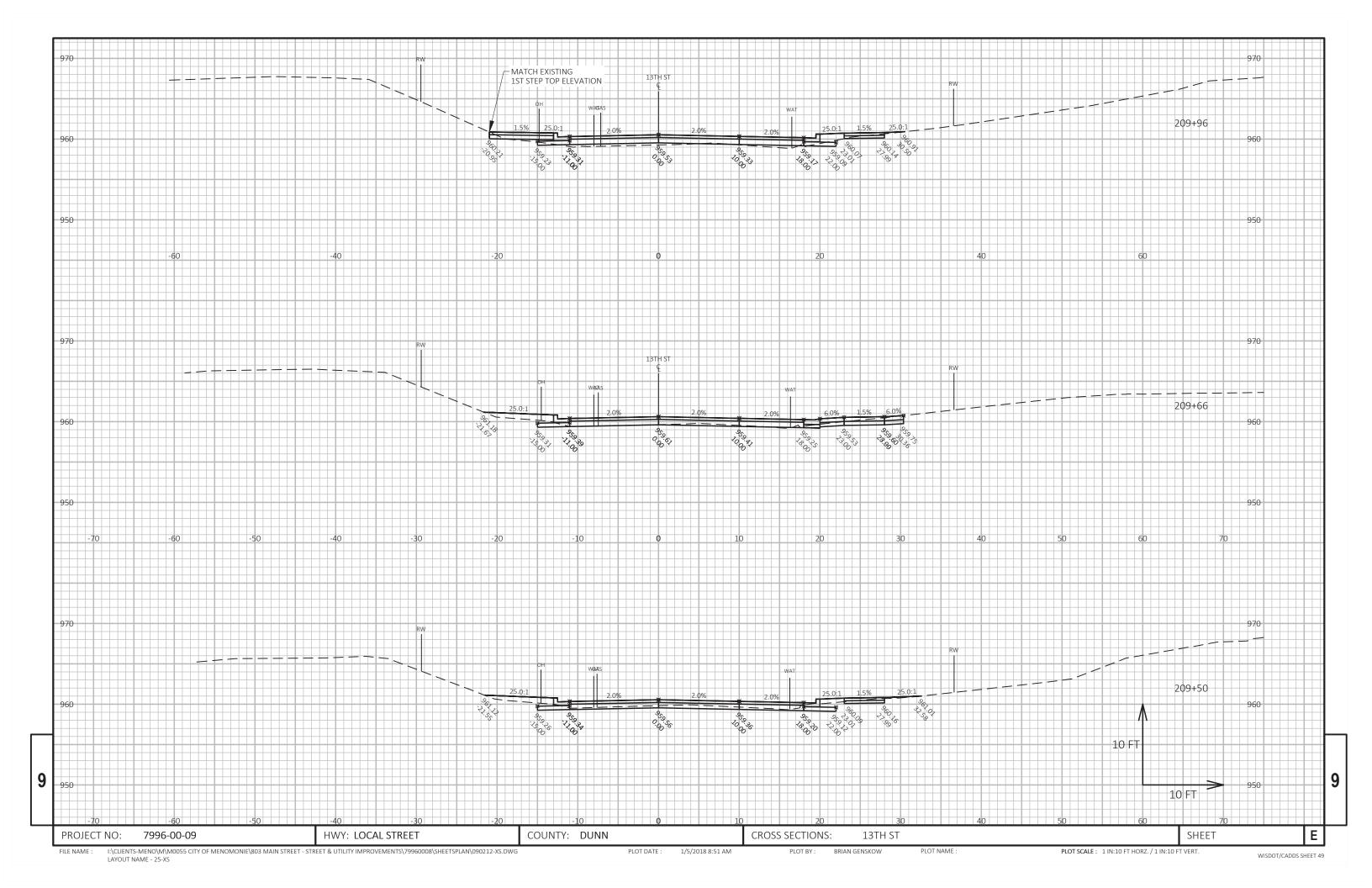


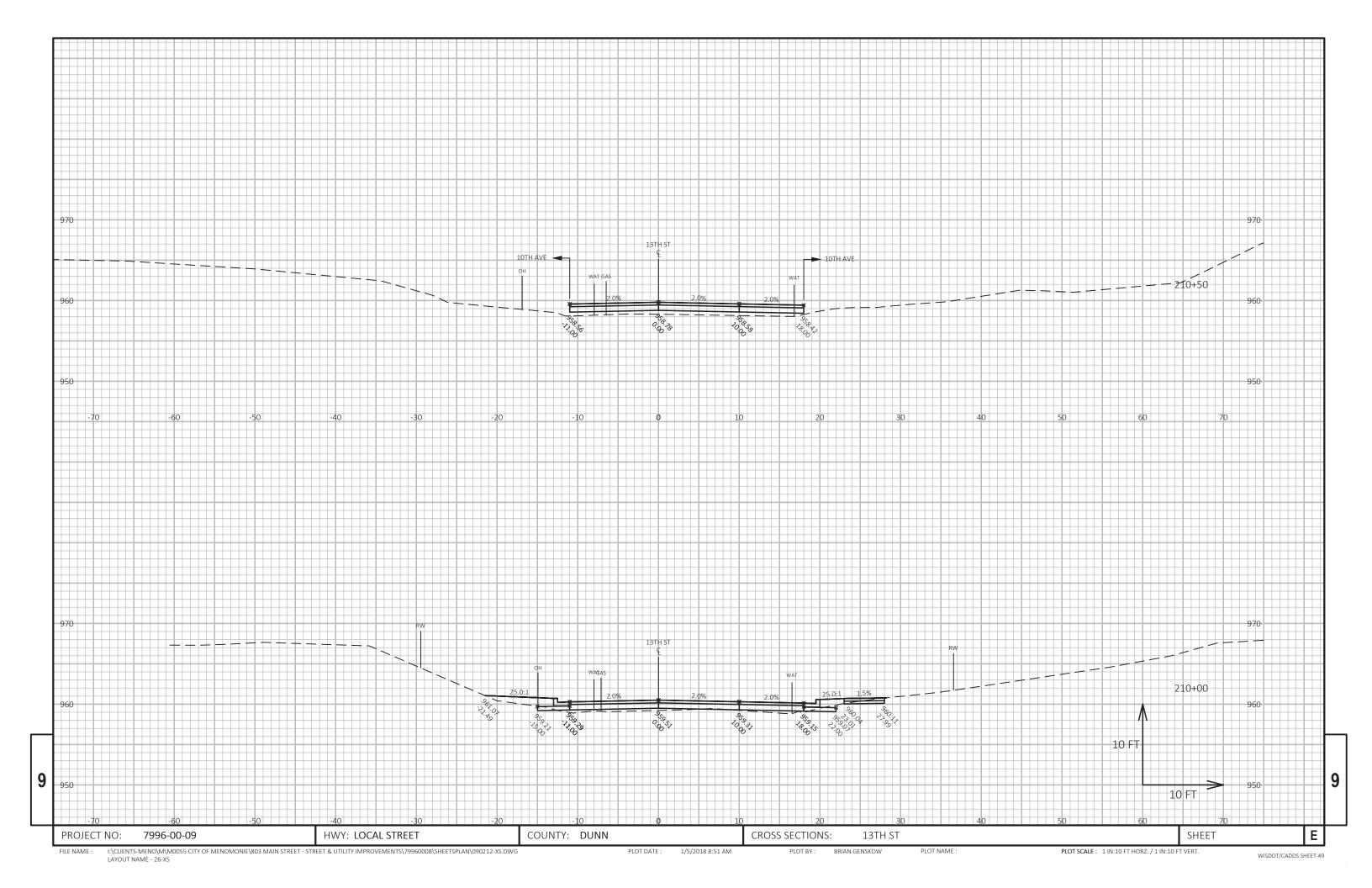


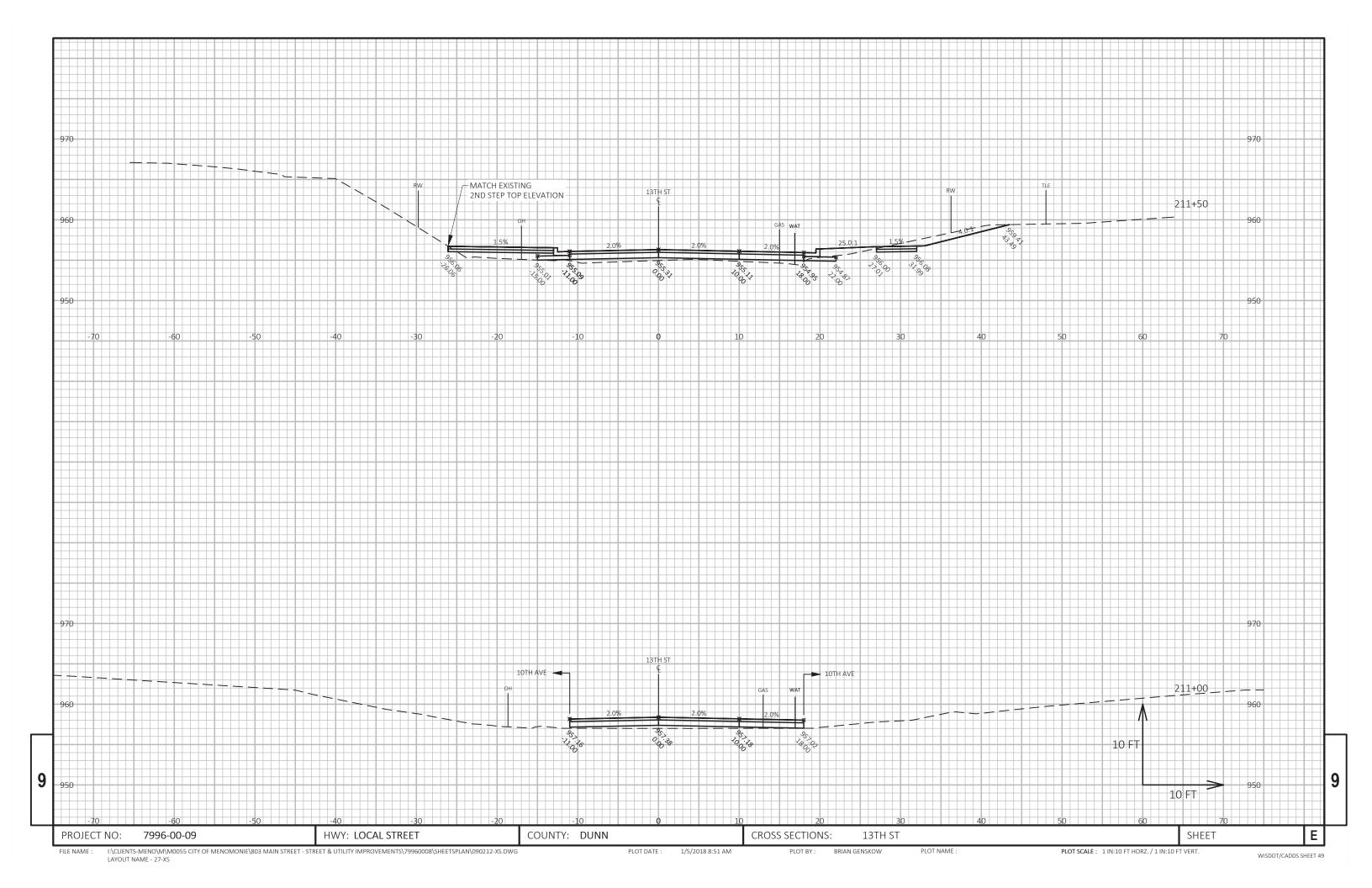


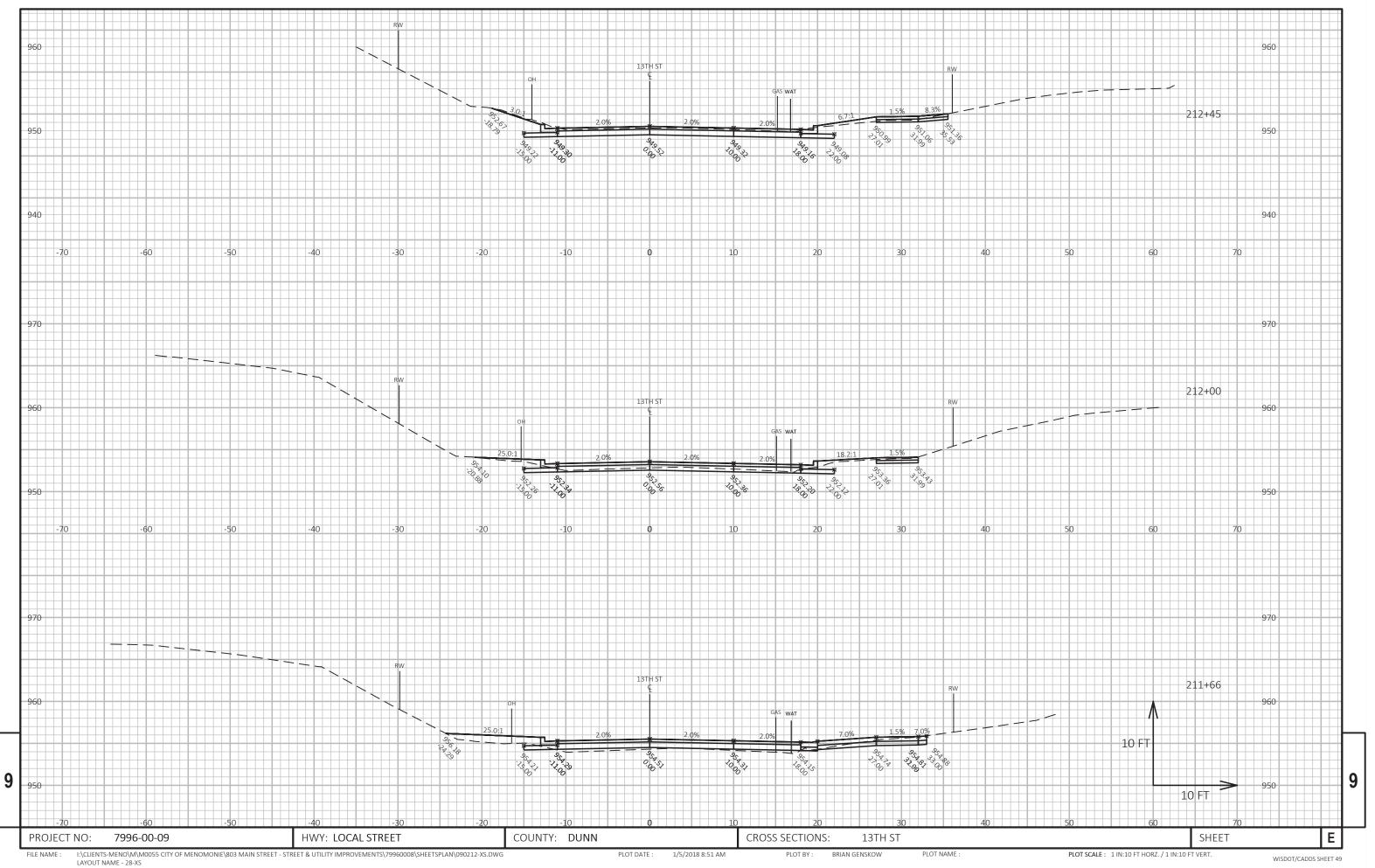


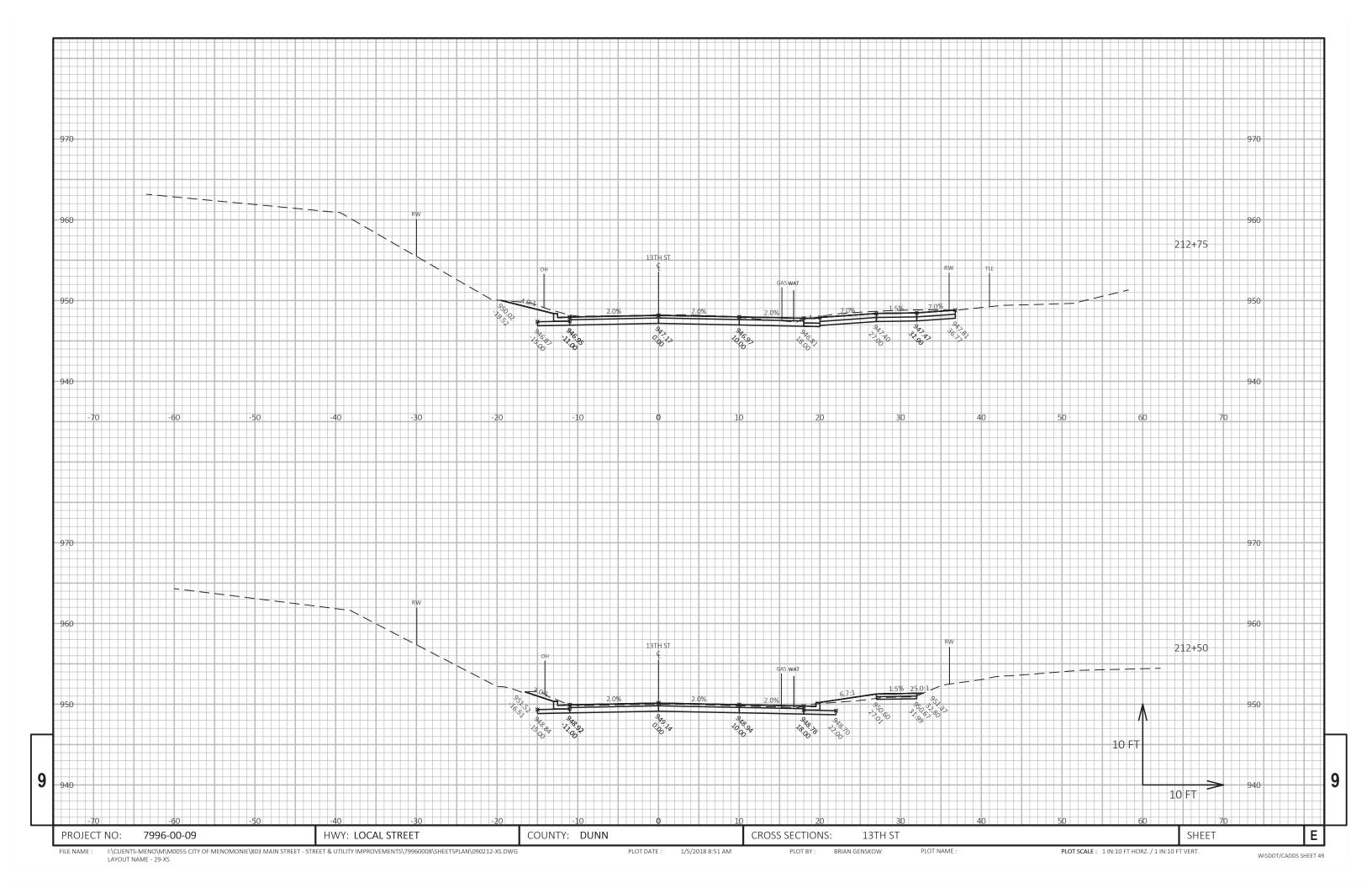


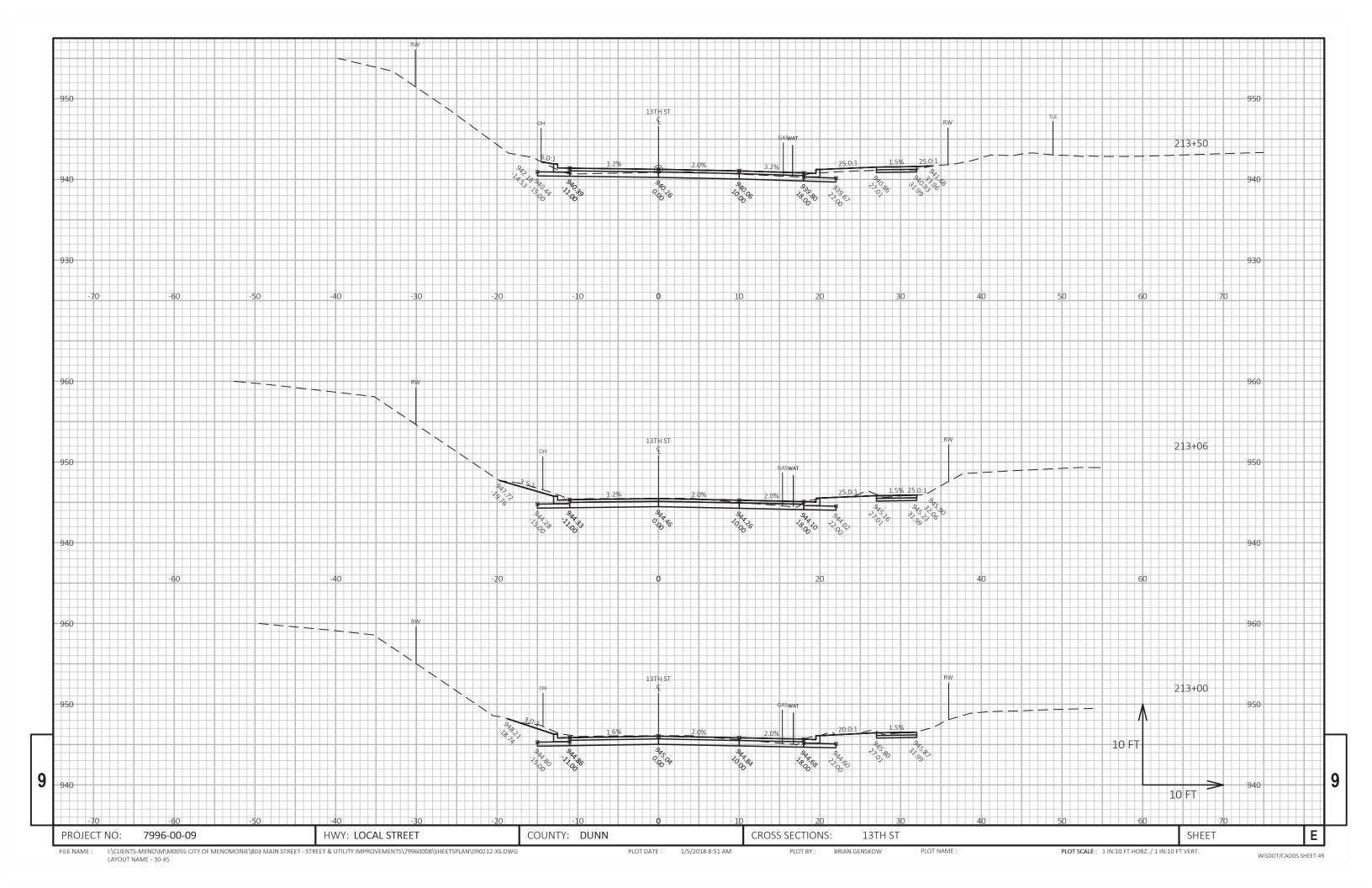


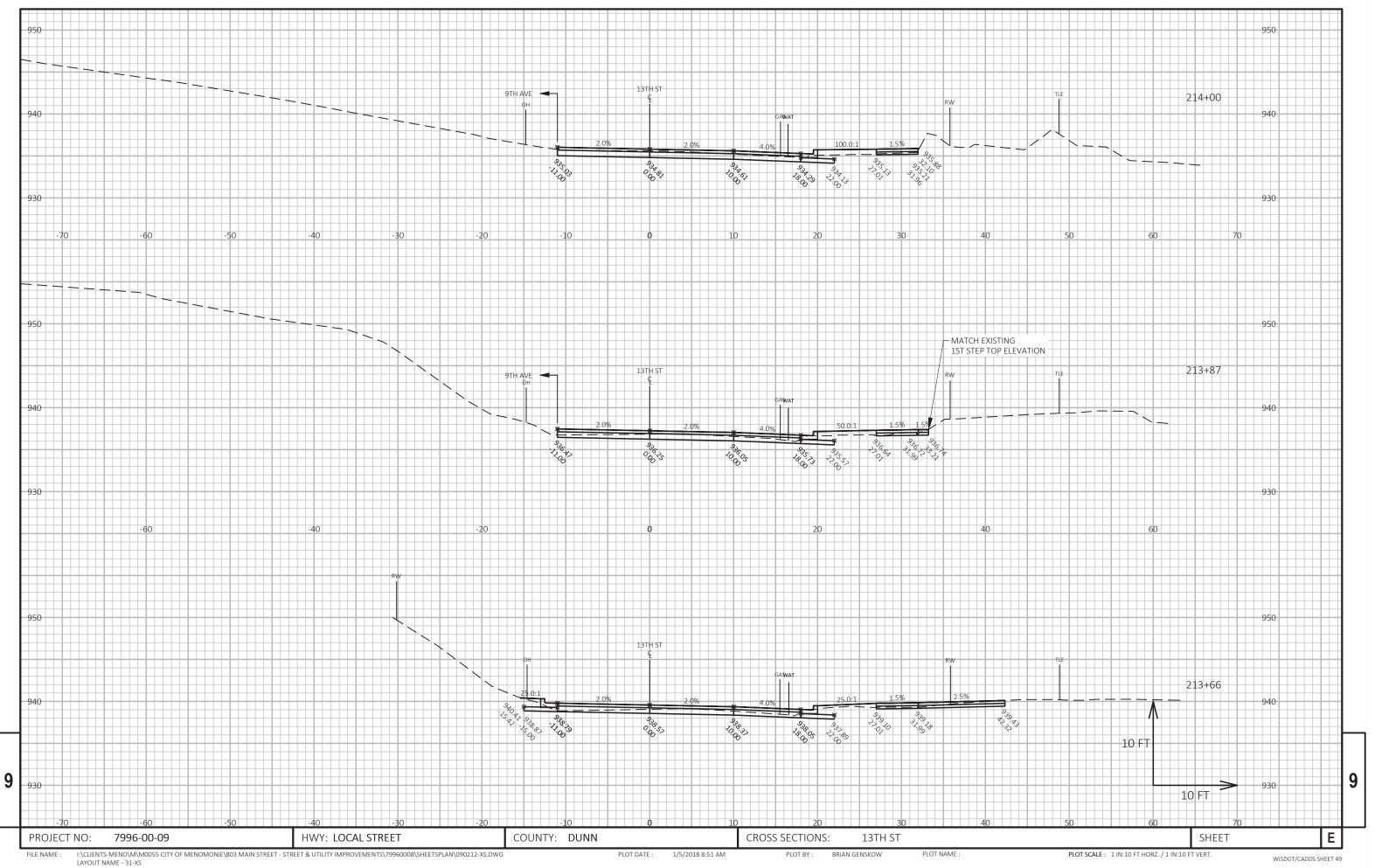


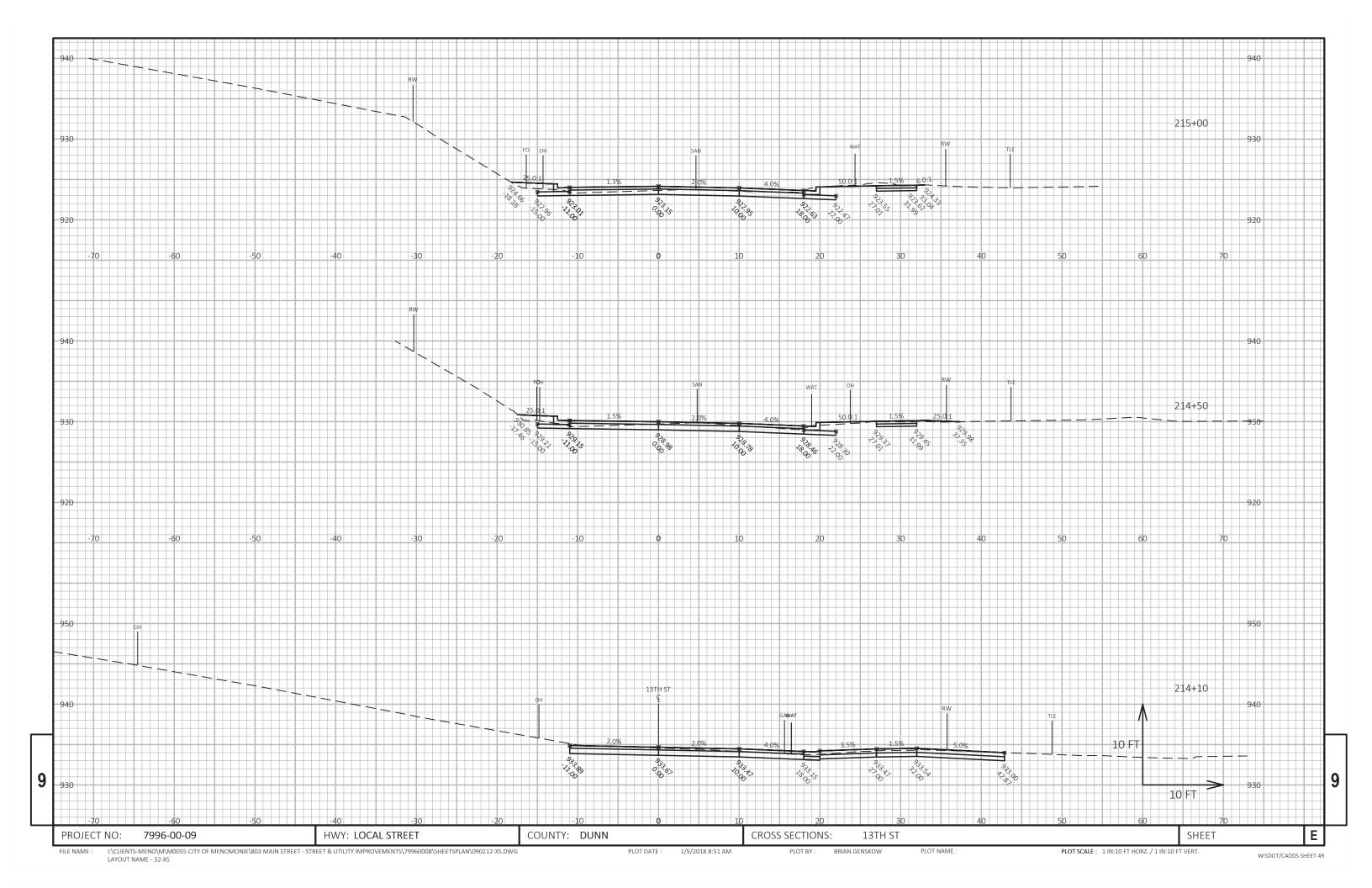


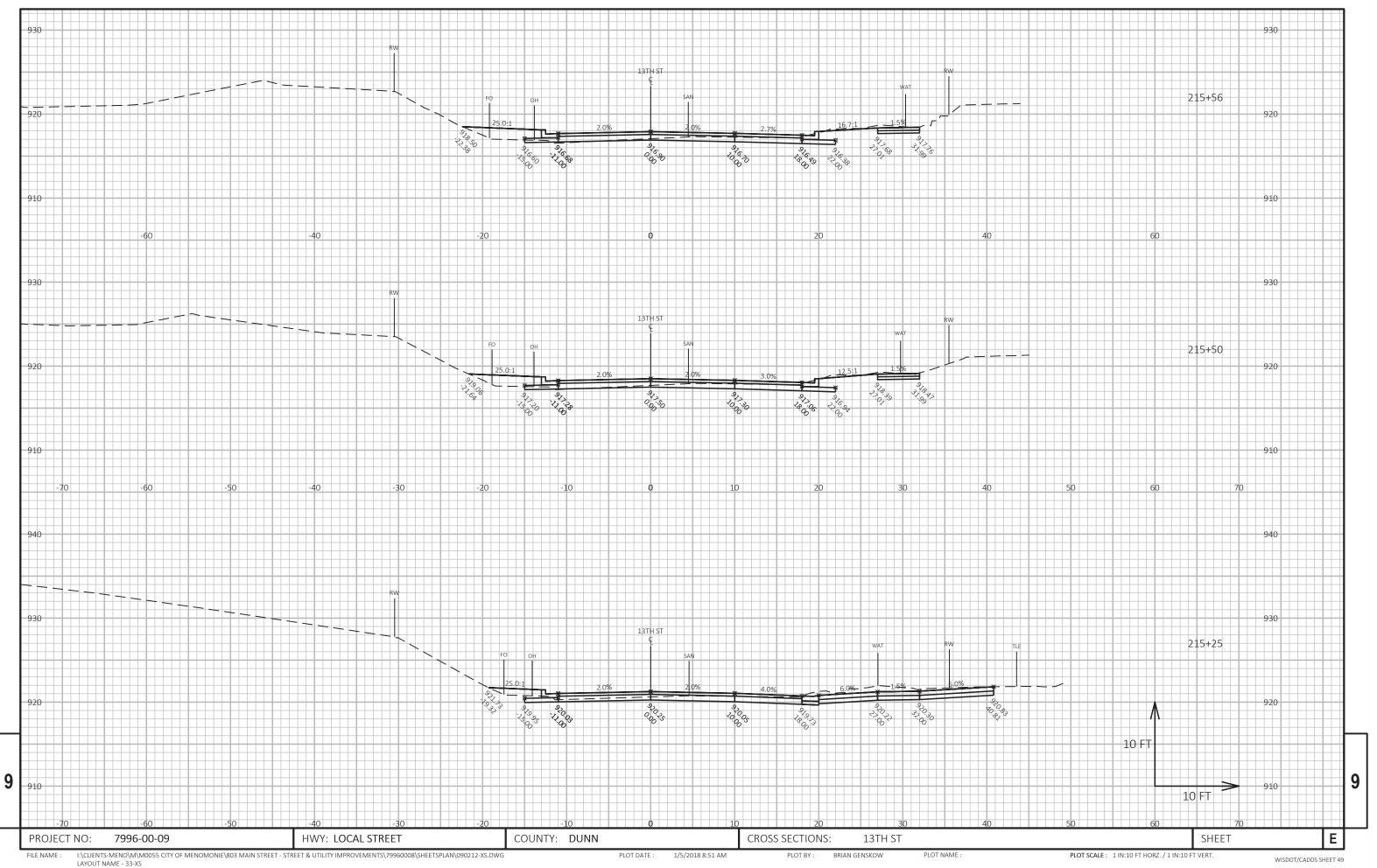


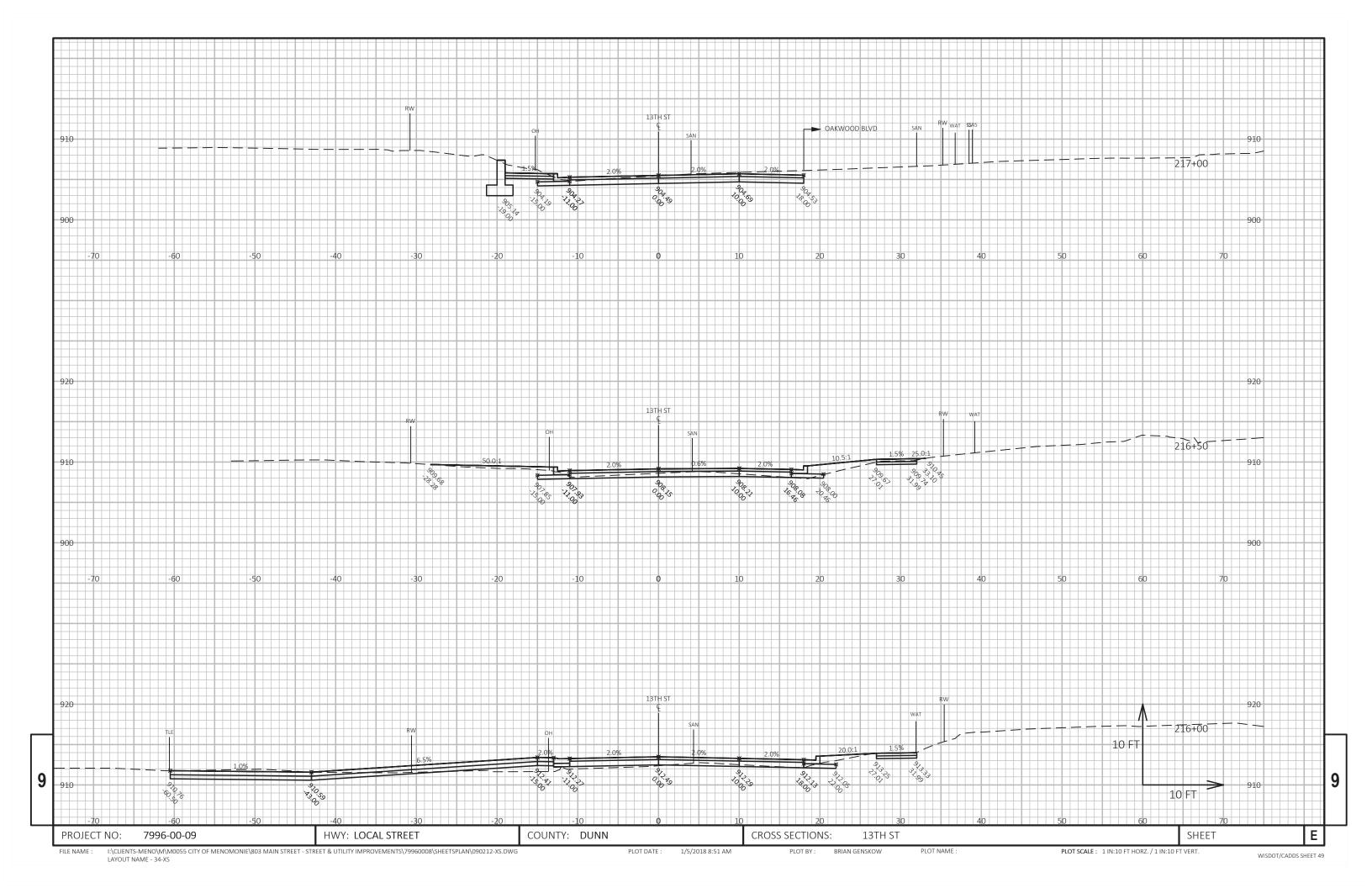


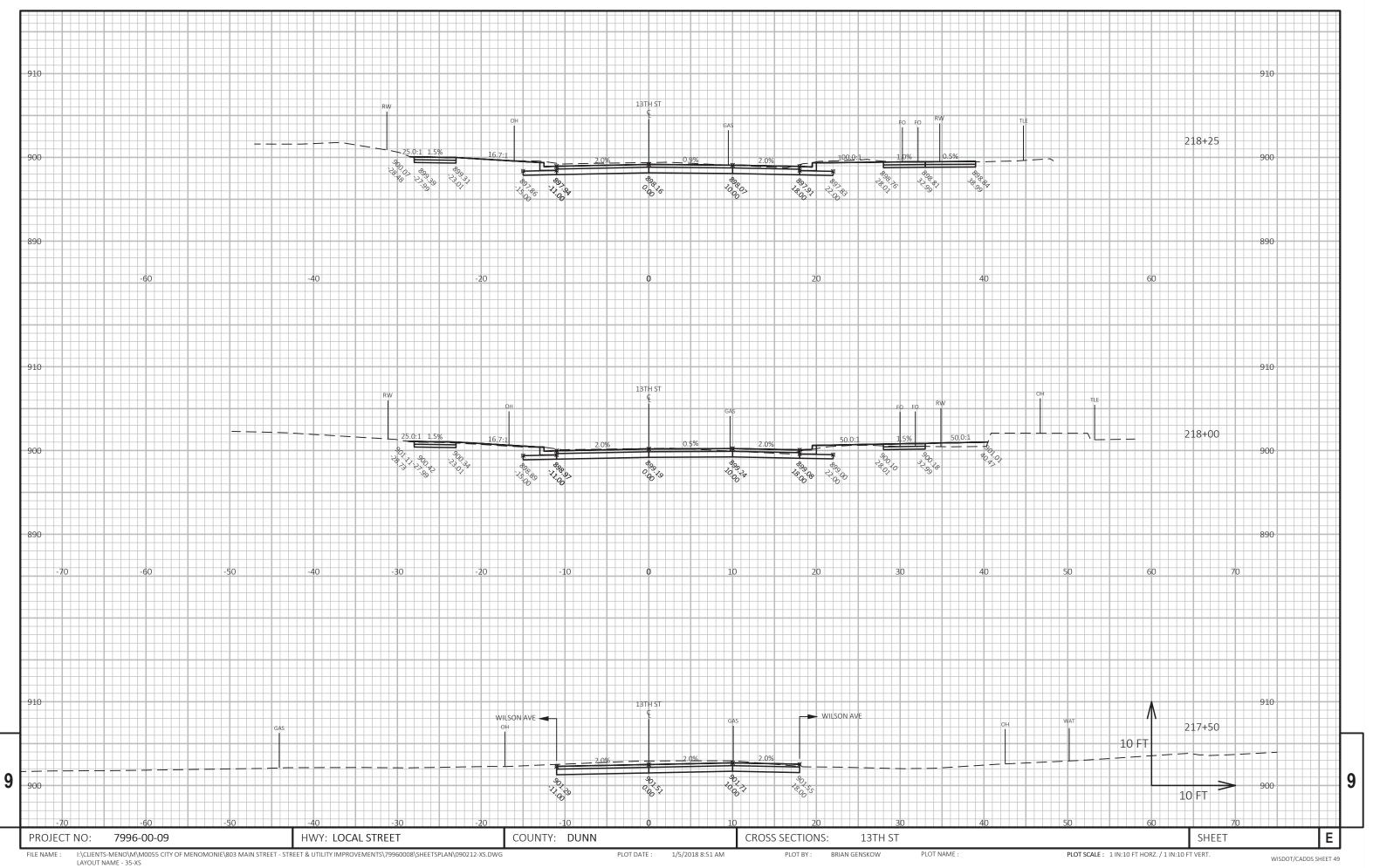


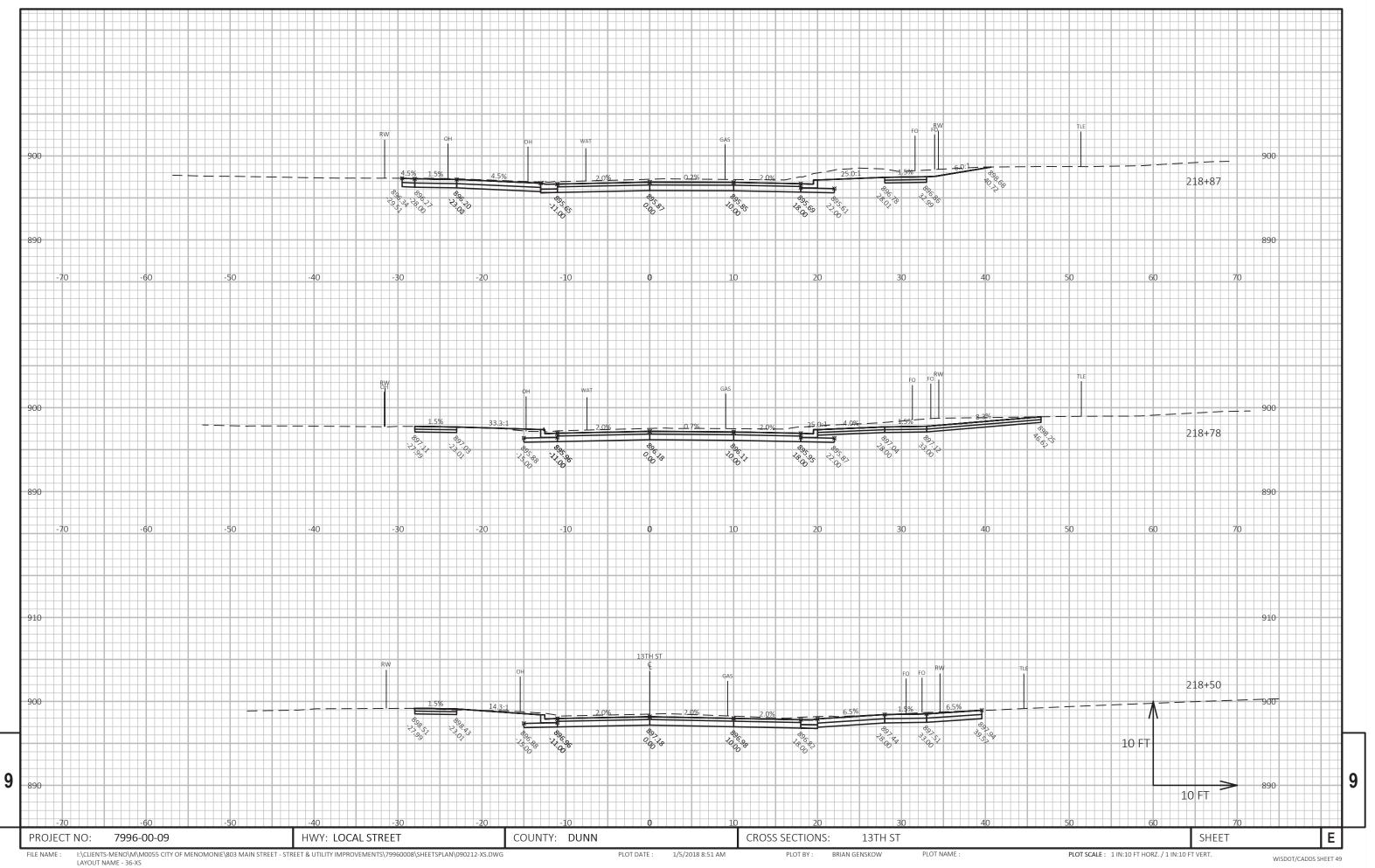


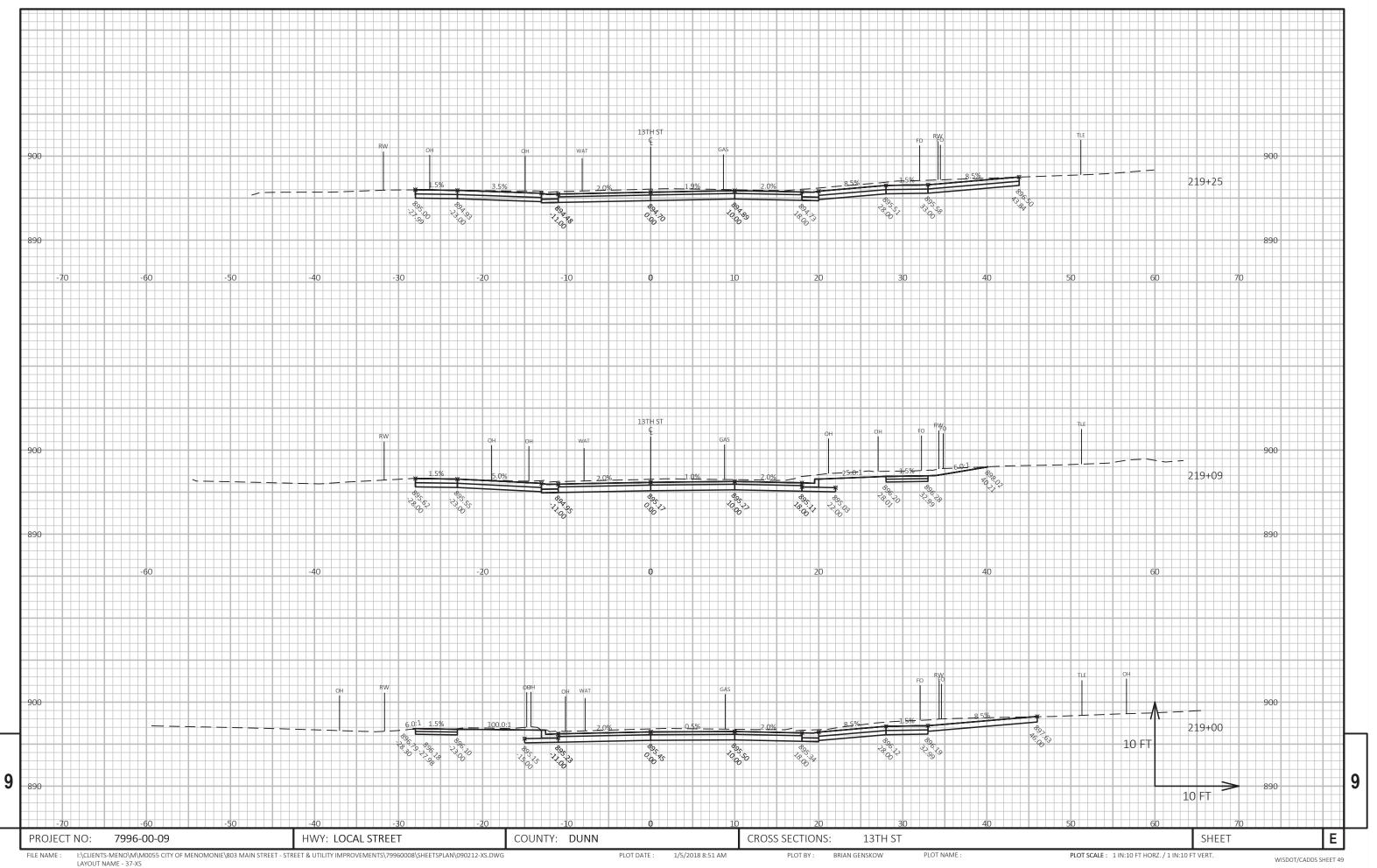


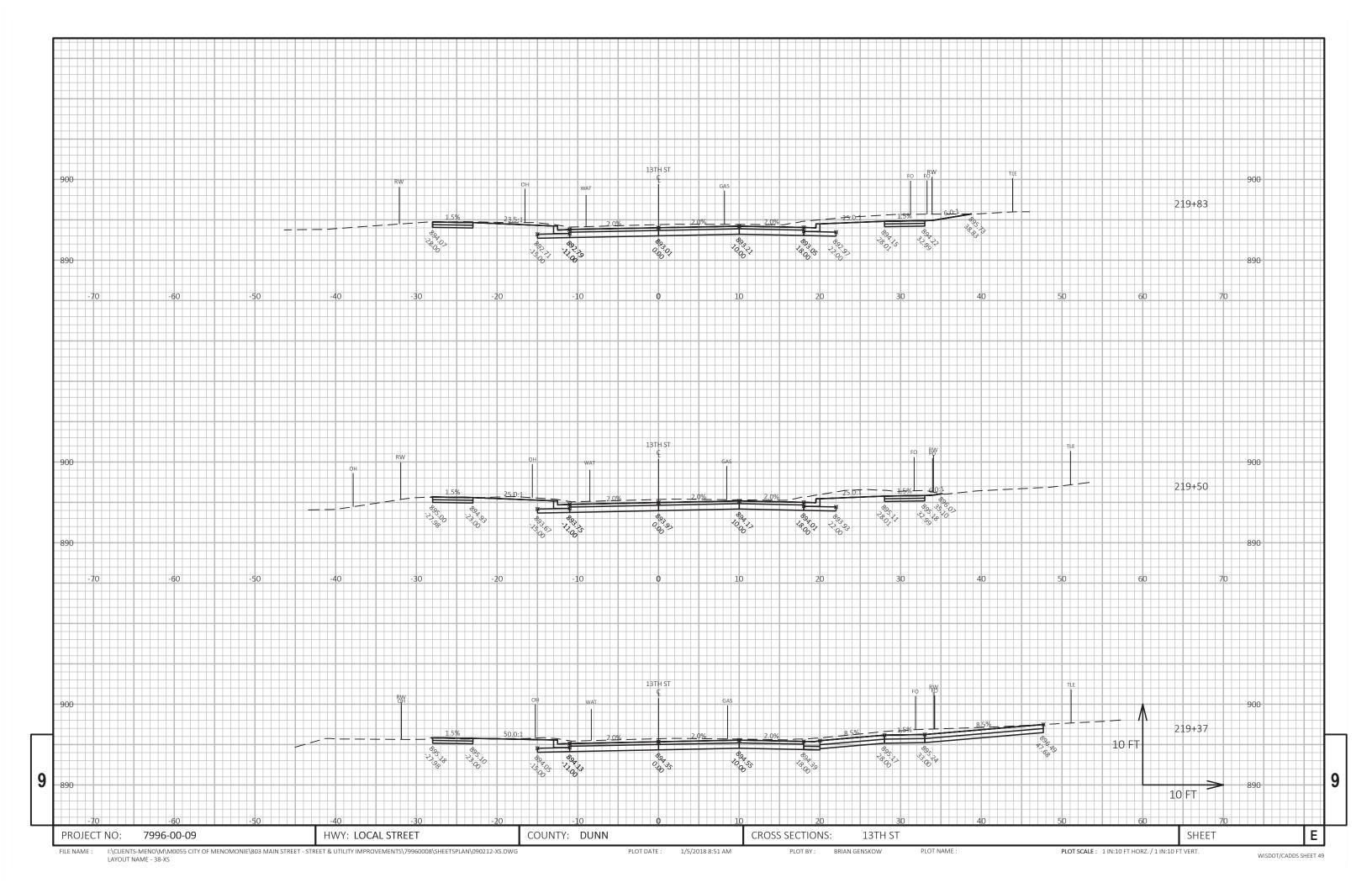


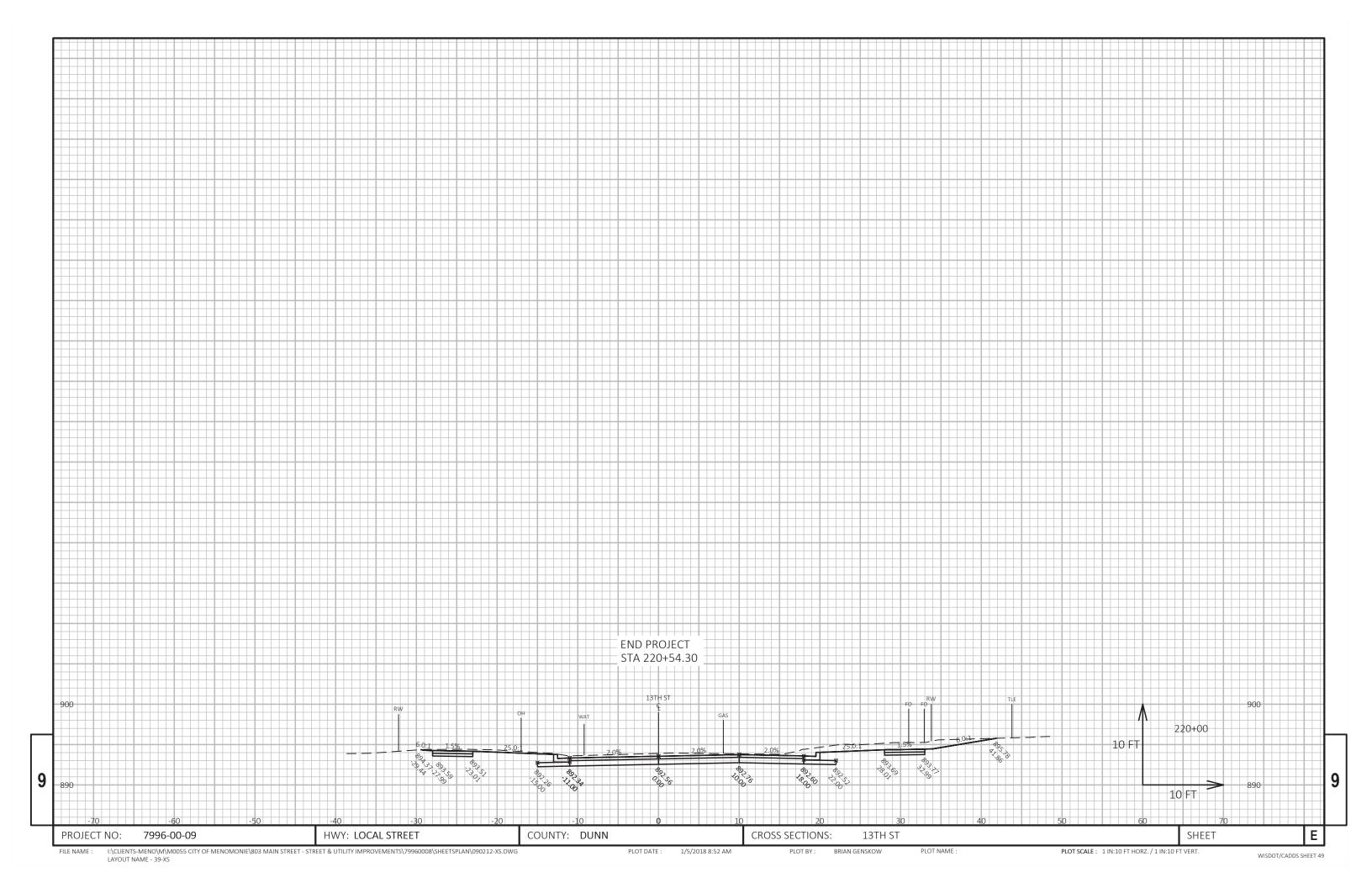


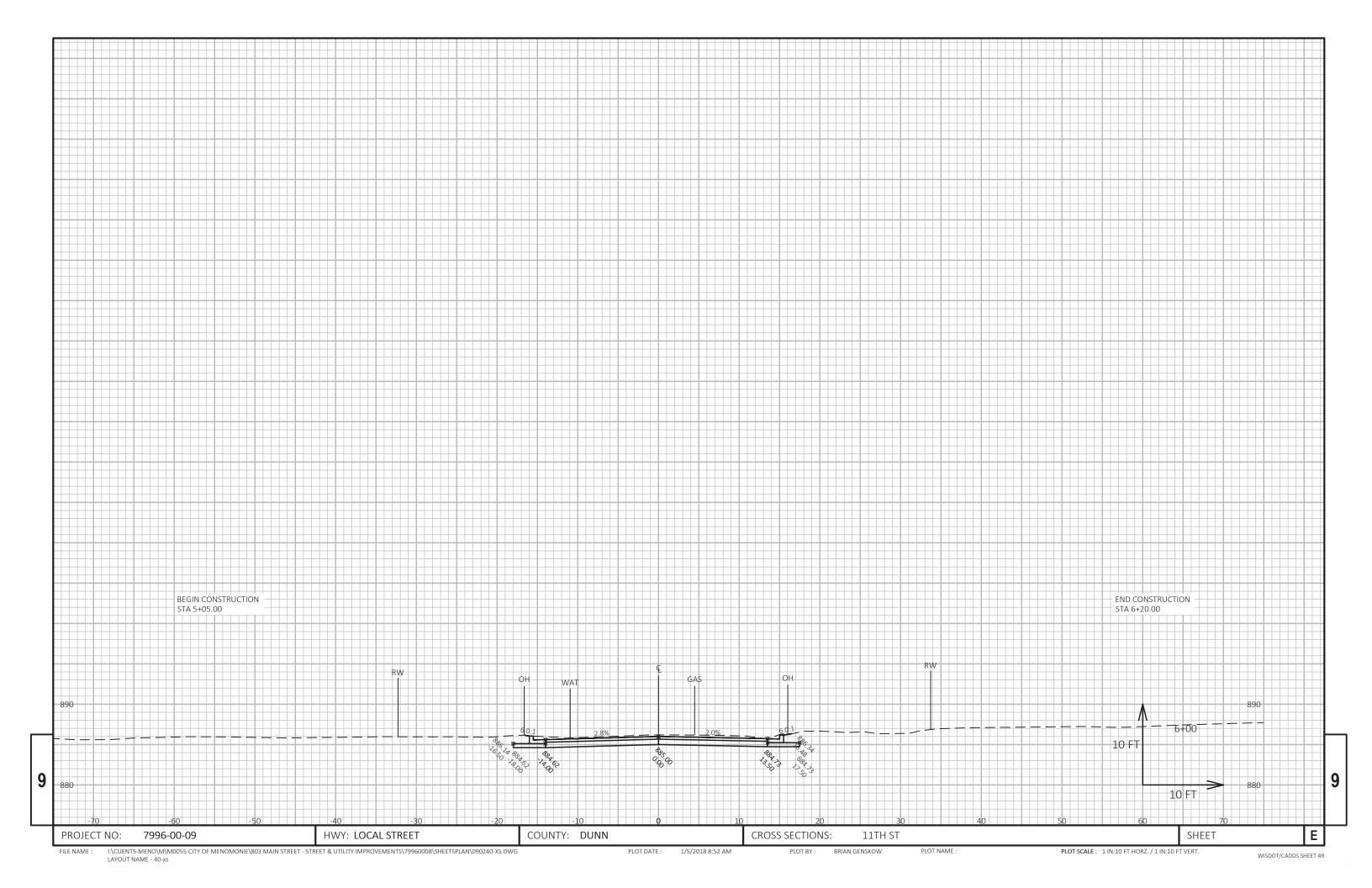


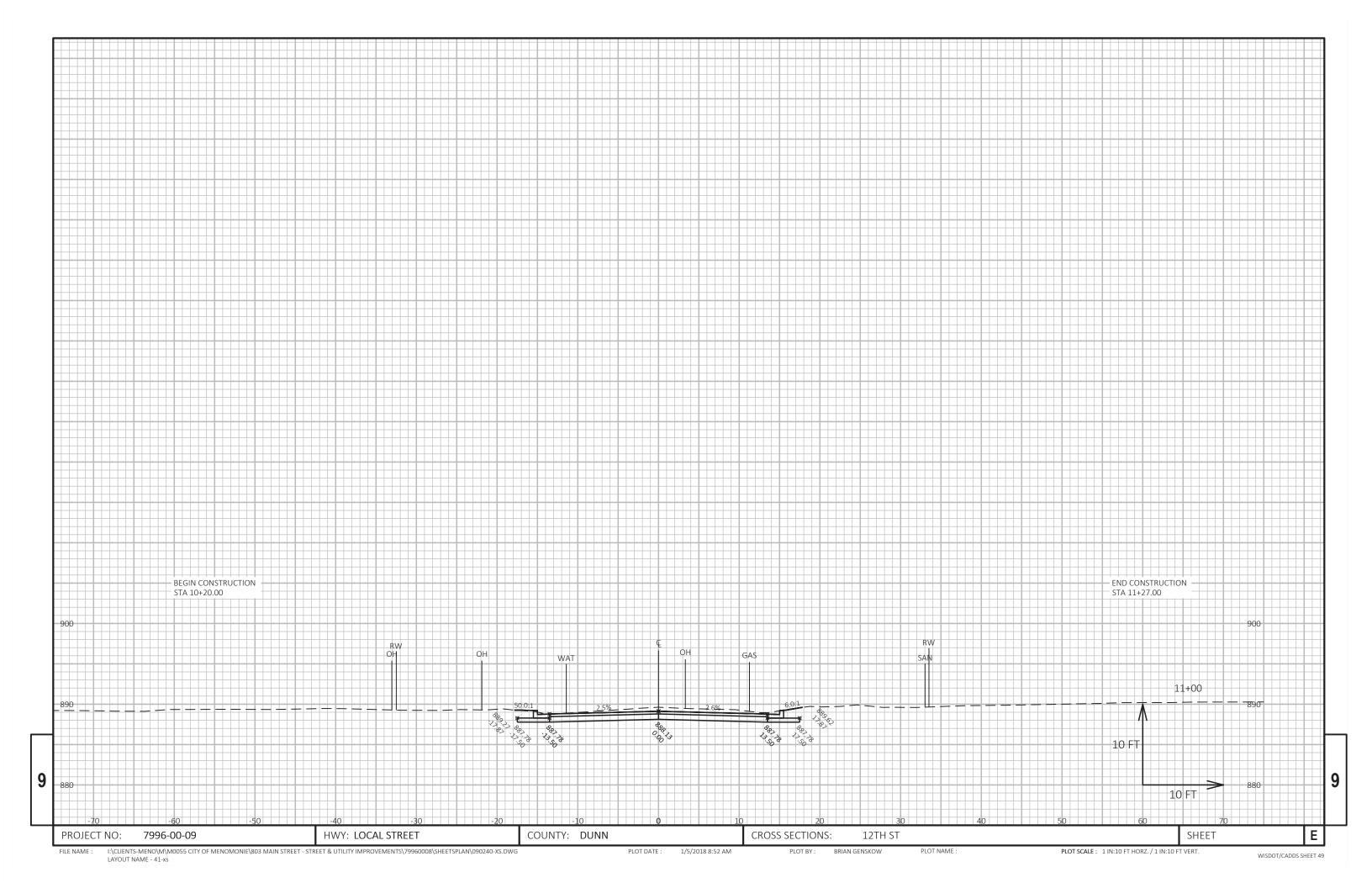


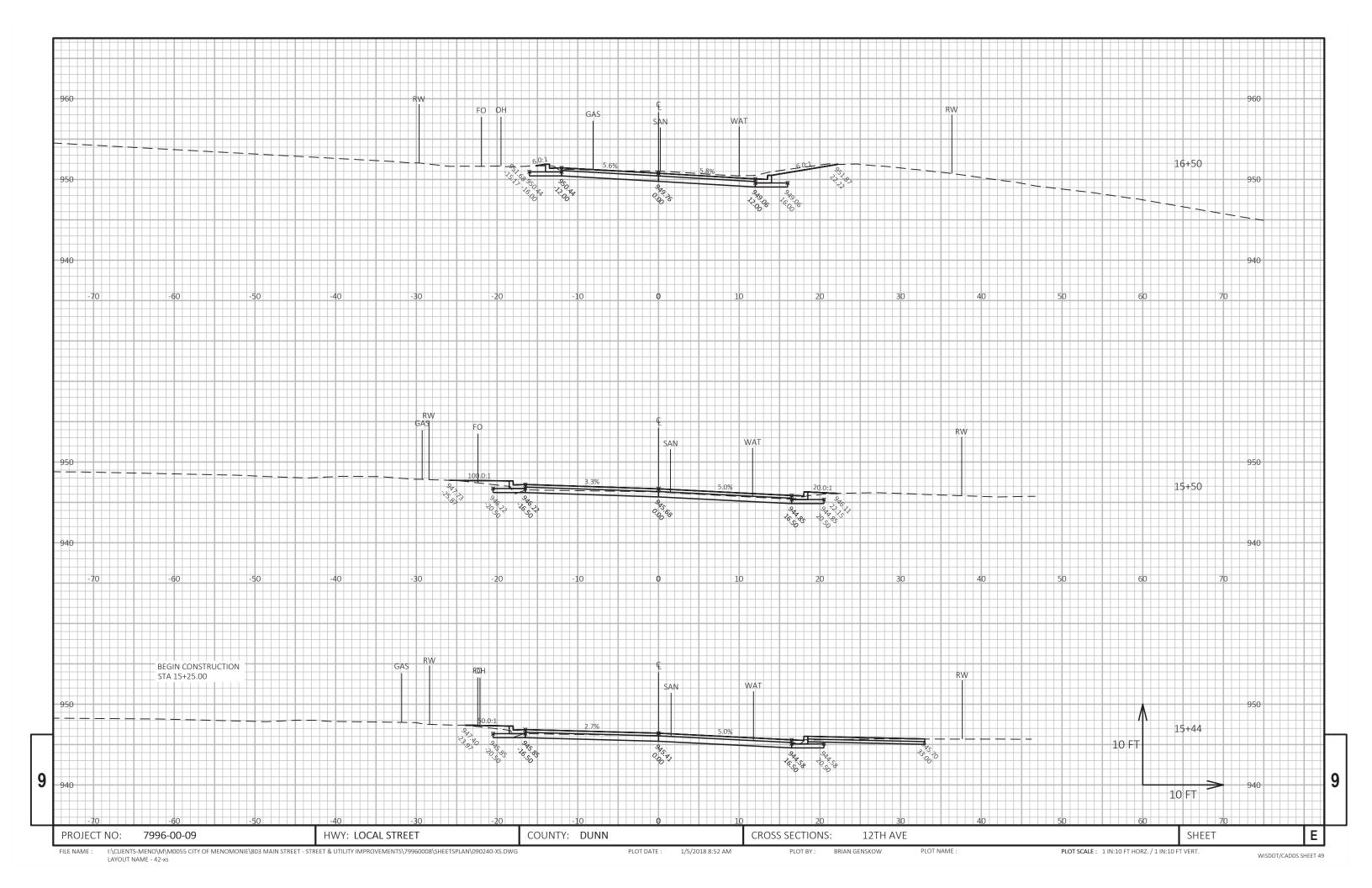


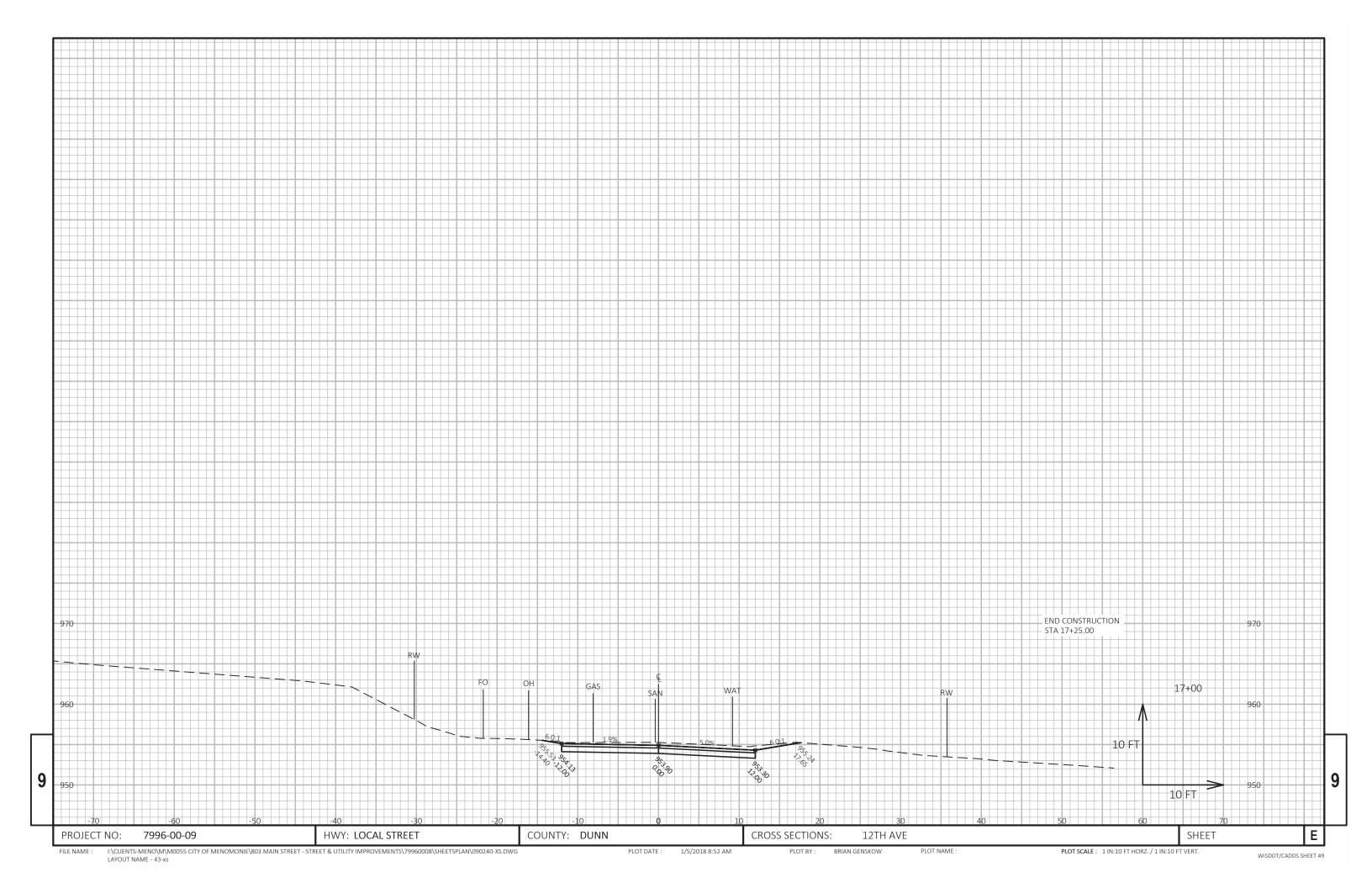


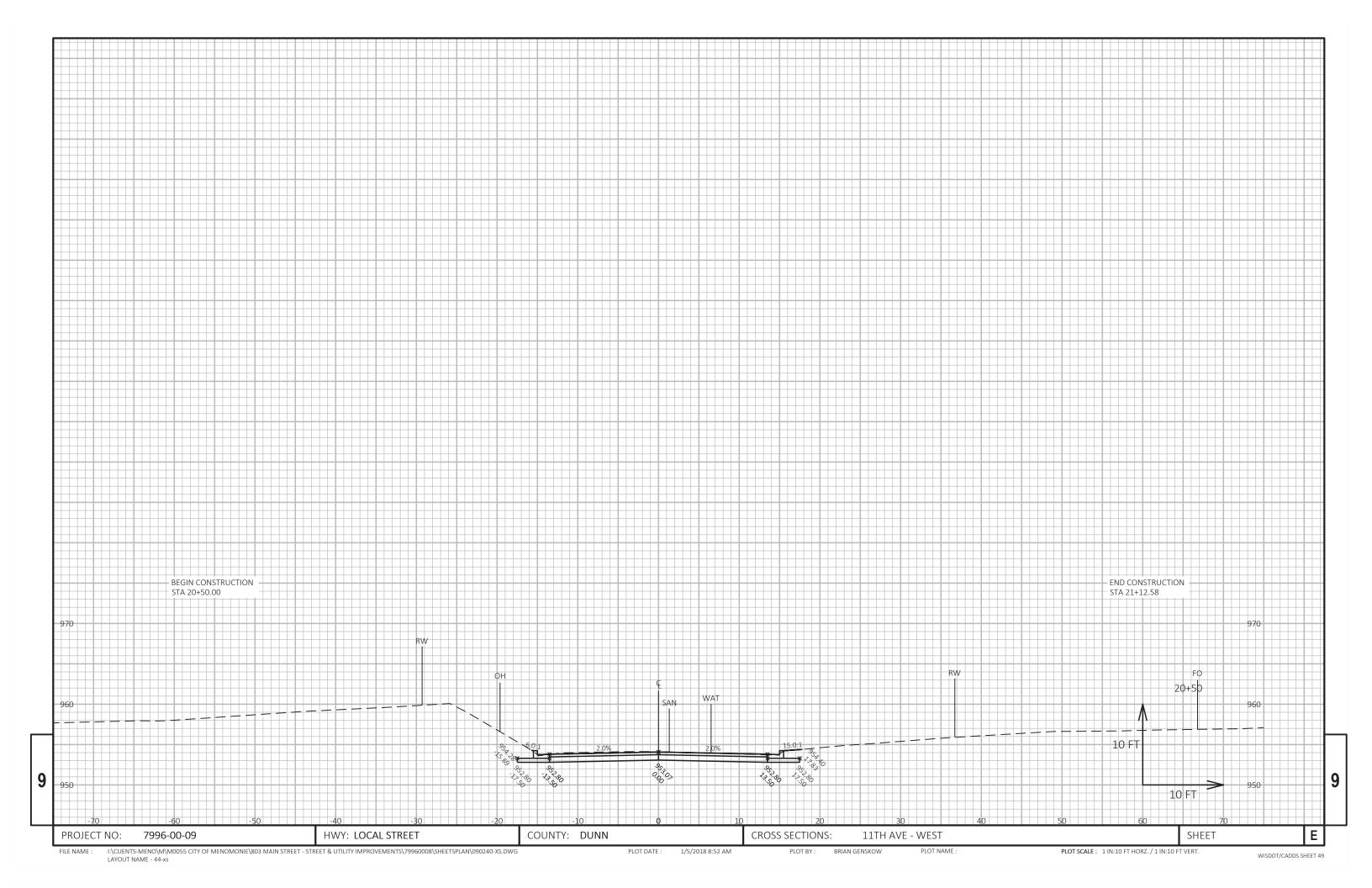


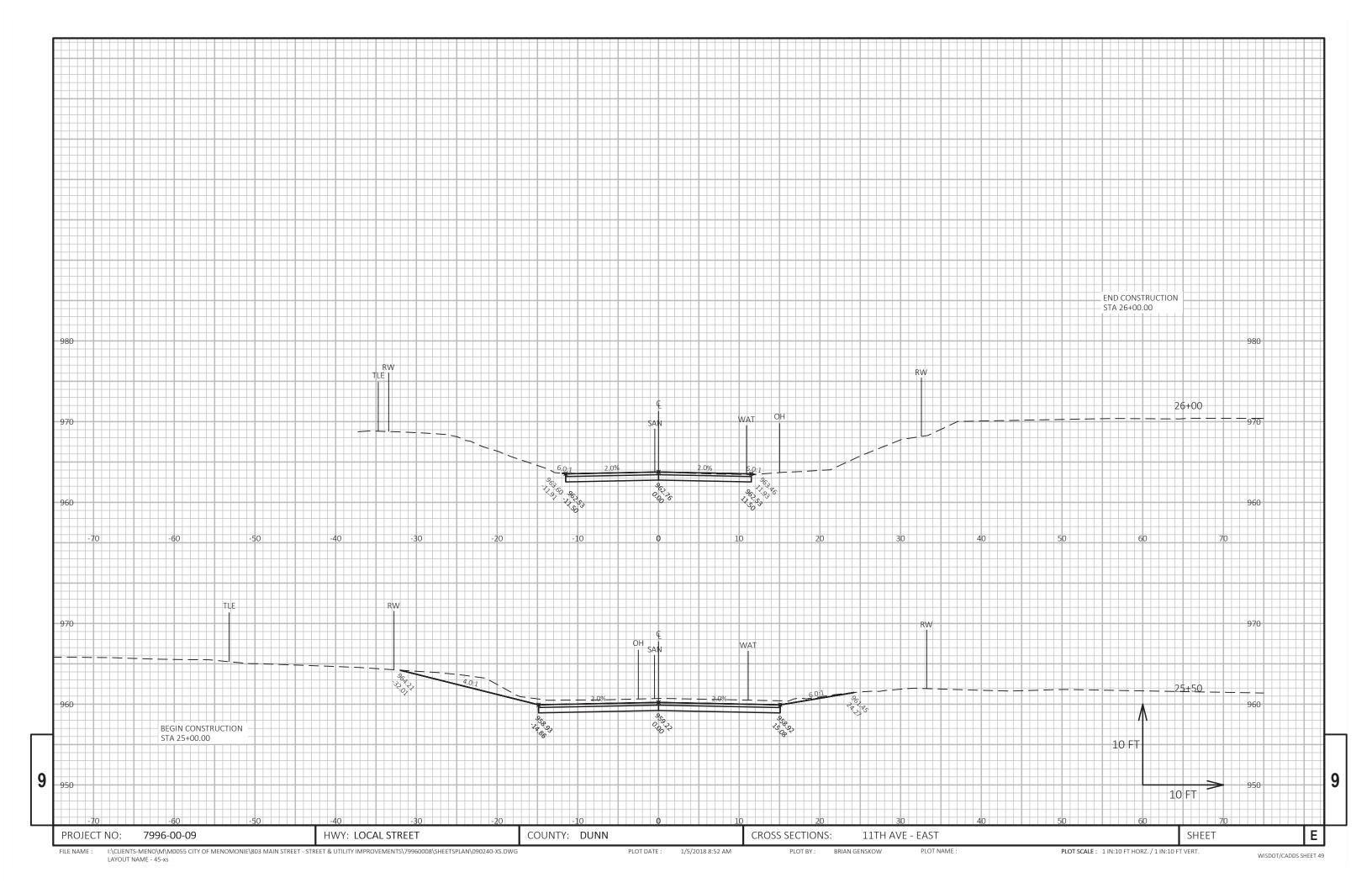


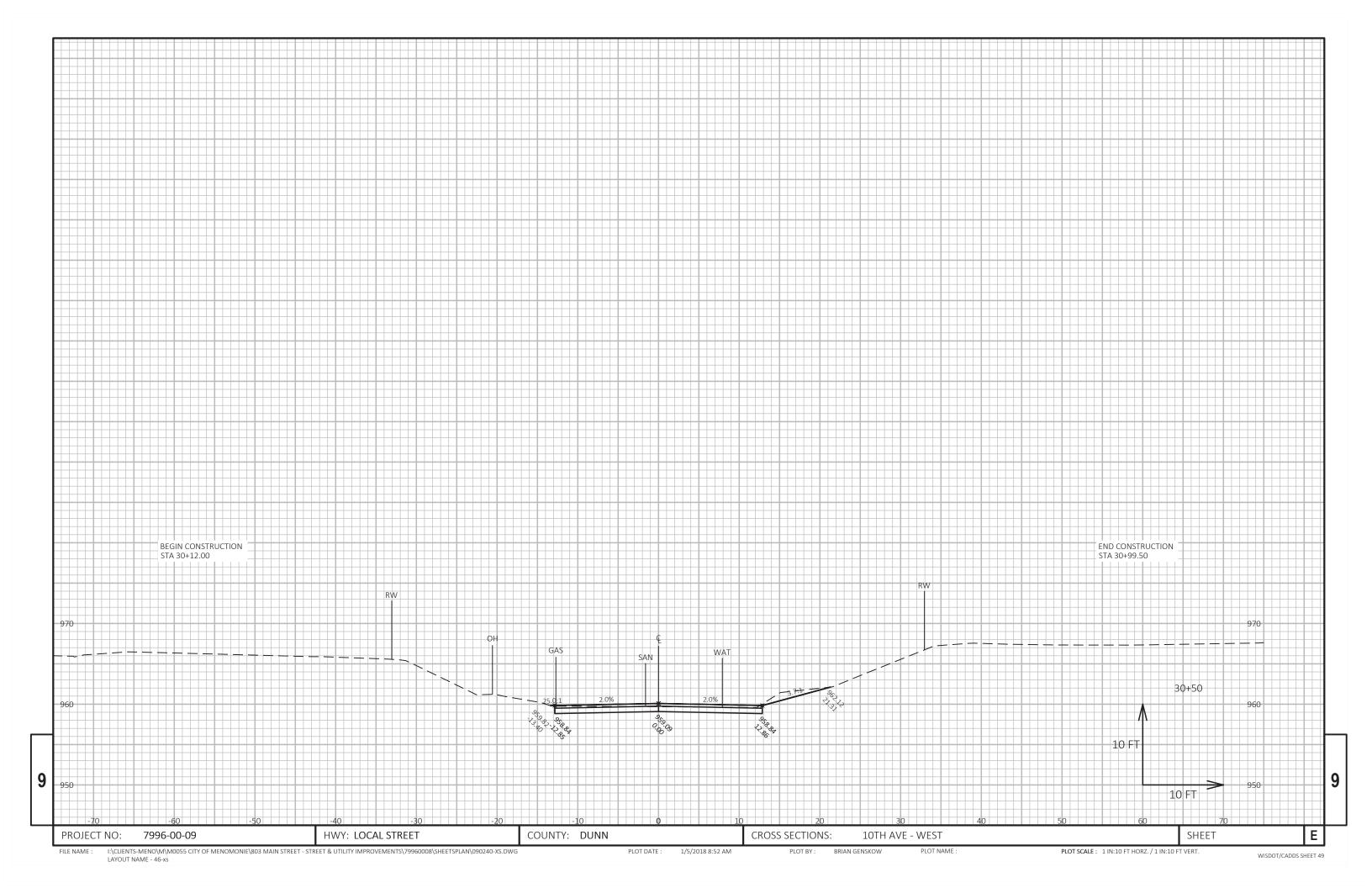


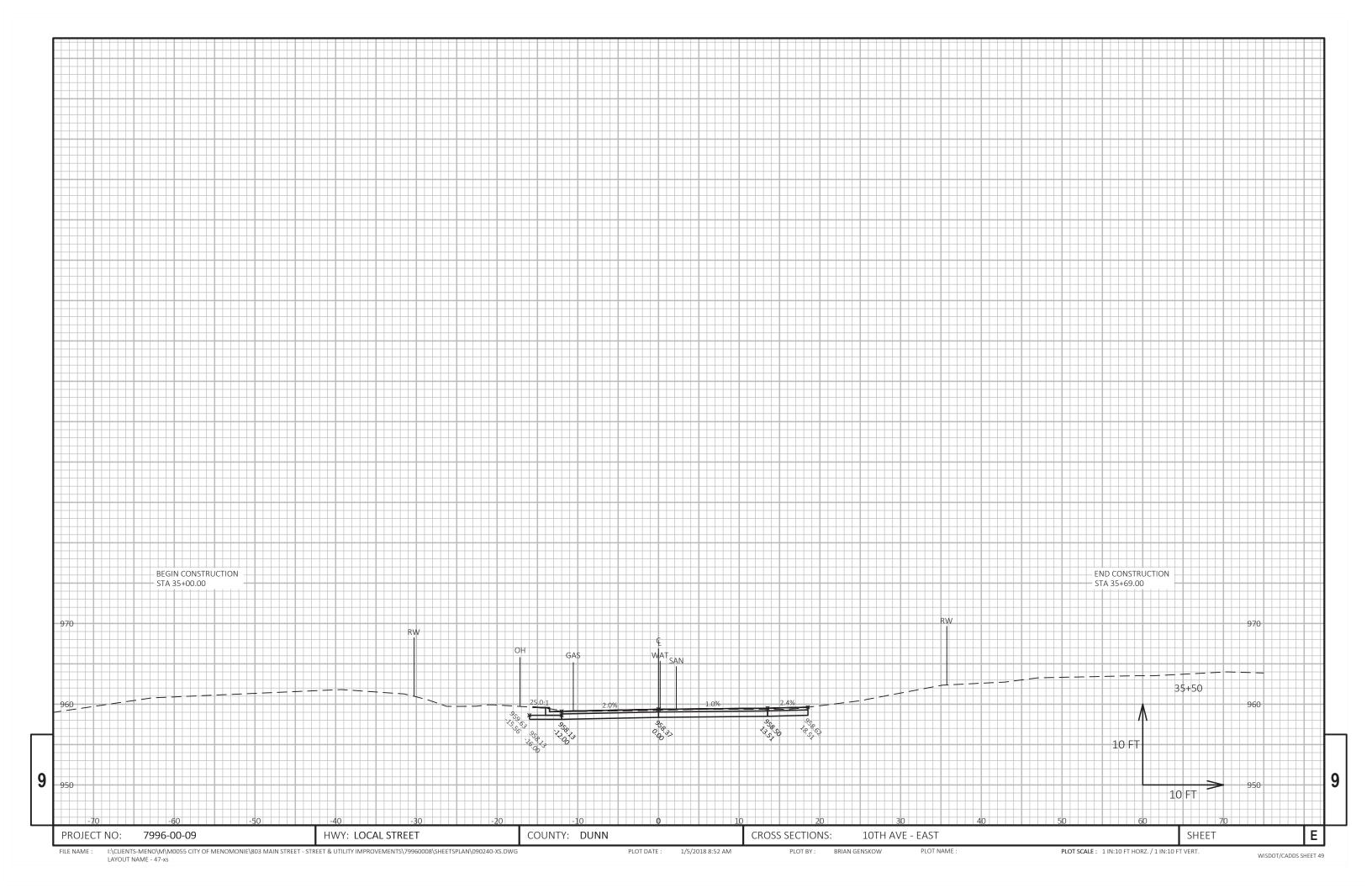


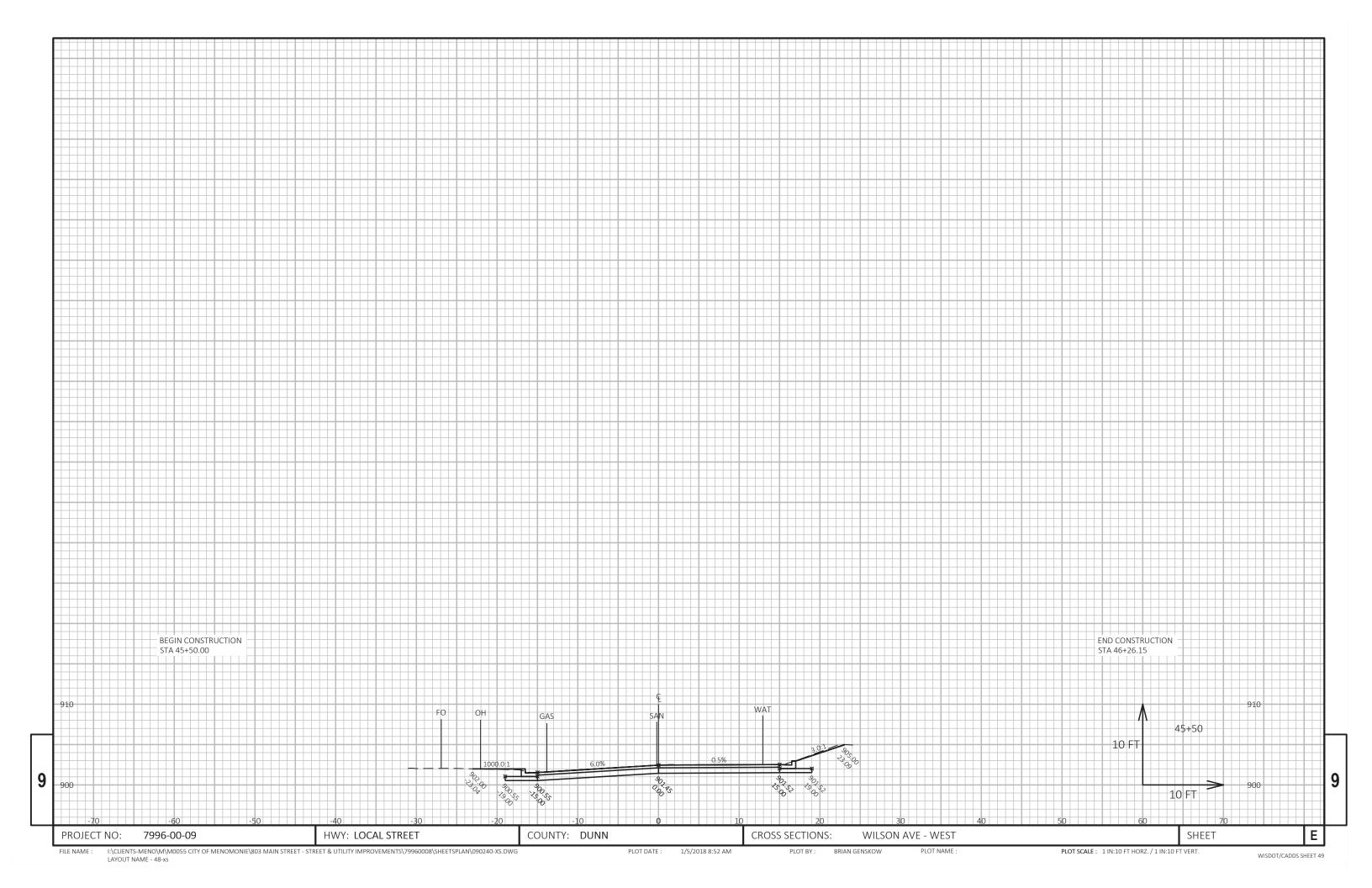


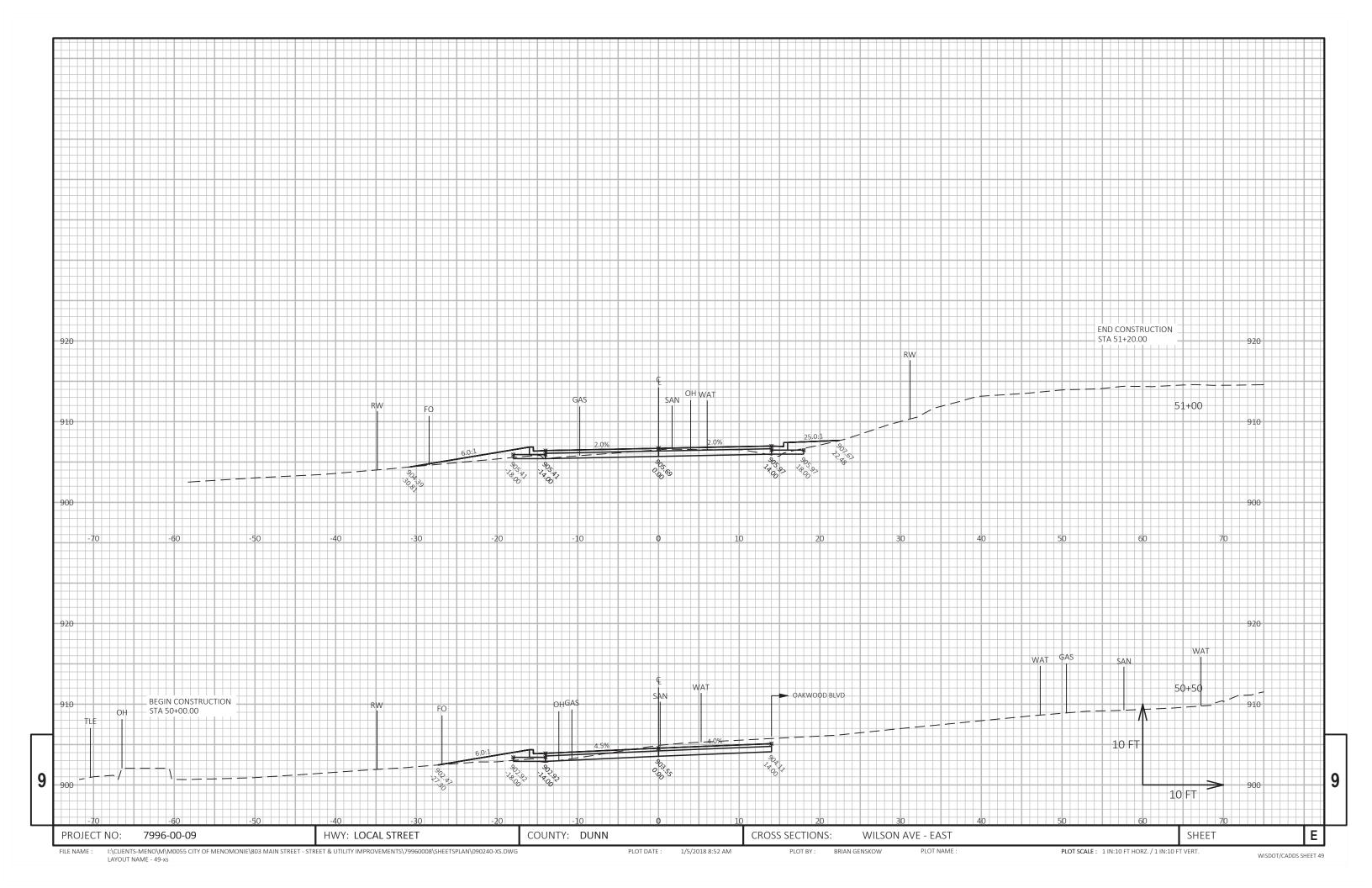


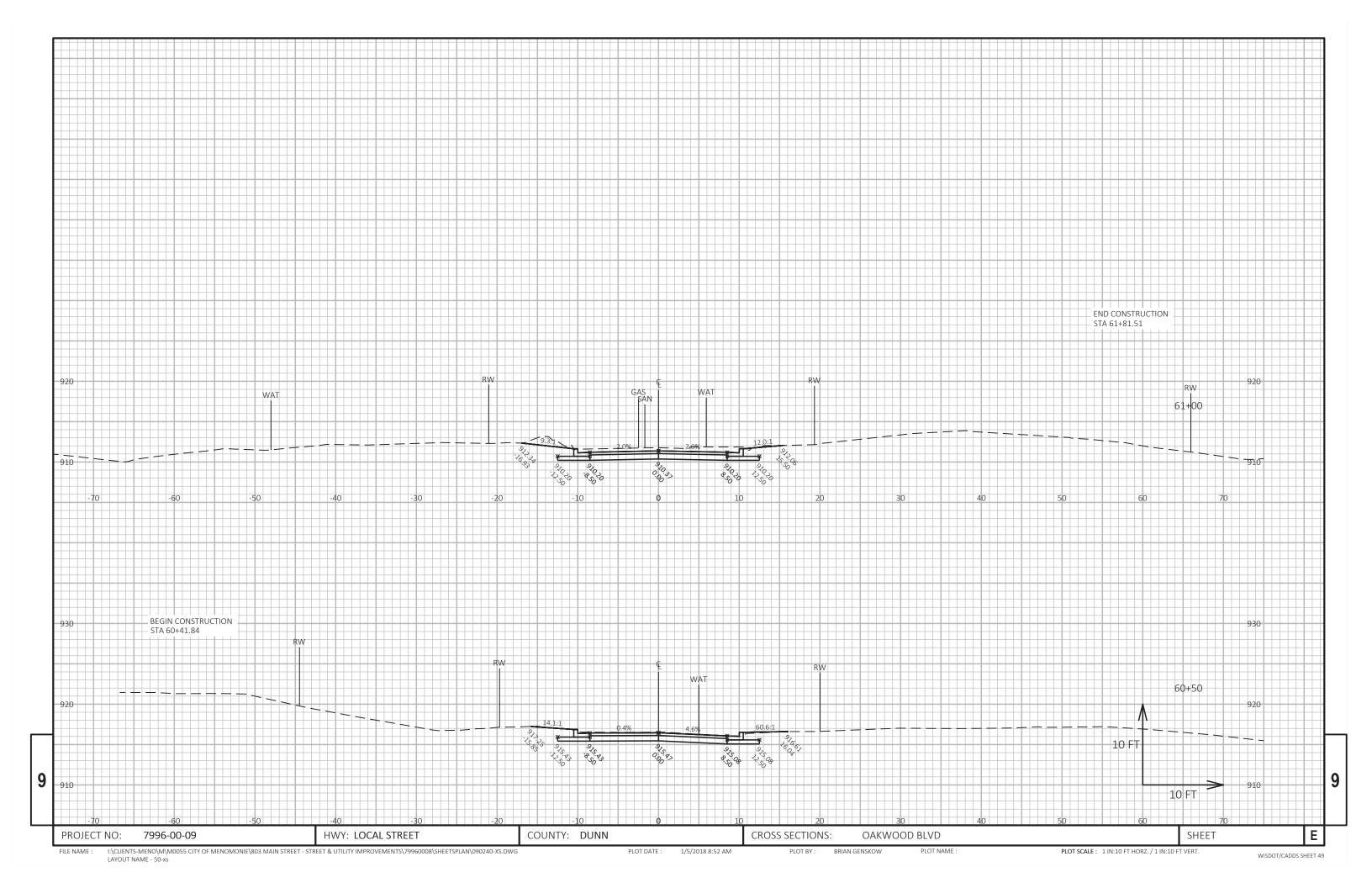














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