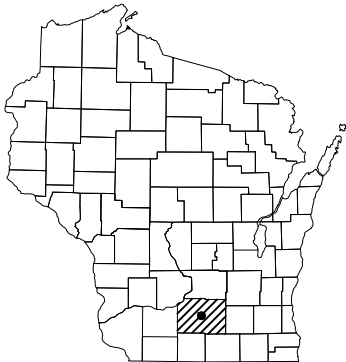


PROJECT ID: 5992-10-16
WITH: N/A
COUNTY: DANE

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control)
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION 5992-10-16

A.A.D.T. (2020)	=	17,800
A.A.D.T. (2040)	=	18,950
D.H.V.	=	2,085
D.D.	=	59/41
T.	=	4.7%
DESIGN SPEED	=	35 MPH
ESALS	=	1,600,000

CONVENTIONAL SYMBOLS

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	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

	ROCK
	LABEL
	95.36
	E
	FO
	G
	SAN
	SS
	T
	W

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

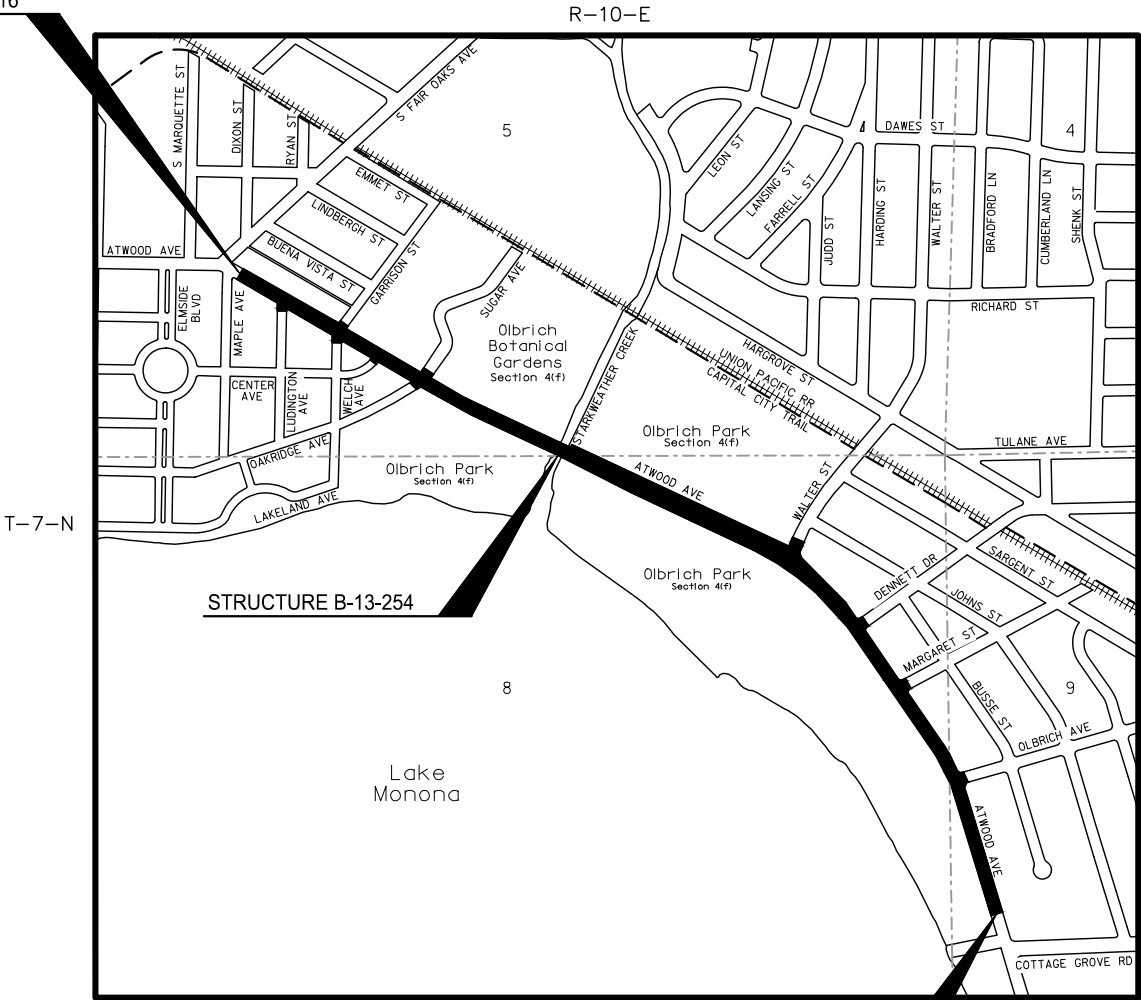
CITY OF MADISON, ATWOOD AVENUE

(FAIR OAKS AVENUE TO COTTAGE GROVE ROAD)

LOCAL STREET
DANE COUNTY

STATE PROJECT NUMBER
5992-10-16

BEGIN PROJECT 5992-10-16
STA. 12+75.00
Y= 489,752.48
X= 832,814.03



LAYOUT
SCALE 0 1000 FT.
TOTAL NET LENGTH OF CENTERLINE = 1.048

END PROJECT 5992-10-16
STA. 68+10.66
Y= 486,370.61
X= 836,893.89

Coordinates on this plan are referenced to the Wisconsin County
Coordinate System (WCCS), Dane County."

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5992-10-16		

ACCEPTED FOR
CITY OF MADISON

(Date) City Engineer
STREET PROJECT APPROVED
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

ORIGINAL PLANS PREPARED BY



1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

DATE: (Professional Engineer)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor MSA PROFESSIONAL SERVICES, INC.
Designer MSA PROFESSIONAL SERVICES, INC.
Regional Examiner REGIONAL EXAMINER
Regional Supervisor REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT

DATE: (Signature)

E

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 AREA THAT ARE NOT SHOWN.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF THE STATION SECTION. SEE DETAIL SHEETS AND CROSS SECTIONS FOR SLOPES AND GRADES.

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

REMOVING CONCRETE STEPS SHALL BE PAID FOR AS REMOVING CONCRETE SIDEWALK.

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

PROOF ROLLING OF SUBBASE IS REQUIRED BEFORE PLACEMENT OF BASE COURSE & IS INCIDENTAL TO EXCAVATION COMMON. PROOF ROLLING SHALL BE WITNESSED BY THE ENGINEER.

PRIOR TO ORDERING DRAINAGE PIPES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND RESOLVE ALL CONFLICT VERIFICATIONS BY WAY OF ULO'S WITH THE ENGINEER.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

ALL LENGTHS ARE IN FEET EXCEPT AS SHOWN.

STORM SEWER LENGTHS ARE TO CENTER OF STRUCTURES.

DEPTH OF INLETS AND MANHOLES SHOWN ON THE MISCELLANEOUS QUANTITIES SHEET IS FROM TOP OF BASE TO INVERT.

OFFSETS FOR INLETS 2x3 ARE GIVEN TO THE CENTER OF STRUCTURE.

ELEVATIONS SHOWN ON THE STORM SEWER SHEETS ARE AT THE FLANGE OF THE CASTING. A MINIMUM 6-INCHES OF ADJUSTMENT RINGS REQUIRED, UNLESS OTHERWISE NOTED.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER, OR AS SHOWN ON THE PLANS.

DRIVEWAYS SHALL BE REPLACED IN KIND.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL CONCRETE DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 7" THICK AND SHALL BE PAID FOR AS CONCRETE DRIVEWAY 7-INCH.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE CURB FLANGE.

THE CLEAR ZONE BEHIND CURB AND GUTTER IS 2 FEET FROM THE FACE OF THE CURB.

EROSION CONTROL FEATURES TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO START OF CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY WILL BE COVERED WITH TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT, UNLESS OTHERWISE SHOWN IN PLANS, AS DIRECTED BY THE ENGINEER.

A 25% EXPANSION FACTOR WAS USED TO CALCULATE FILL QUANTITIES.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			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
MEDIAN STRIP TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25 0.32	0.30 0.40
SIDE SLOPE TURF			0.25			0.27			0.28			0.30 0.38
PAVEMENT:	0.40 - 0.60											
ASPHALT:	0.70 - 0.95											
CONCRETE:	0.80 - 0.95											
BRICK:	0.70 - 0.80											
DRIVES, WALKS:	0.75 - 0.85											
ROOFS:	0.75 - 0.95											
GRAVEL ROADS, SHOULDERS	0.40 - 0.60											

TOTAL PROJECT AREA = X.XX ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES - X.XX ACRES

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
CURB RAMP DETAILS
EROSION CONTROL
STORM SEWER
SANITARY SEWER
WATERMAIN
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKINGS
DETOUR PLAN
TRAFFIC CONTROL
ALIGNMENT OVERVIEW
CONTROL POINTS

DESIGN CONTACTS

MSA PROFESSIONAL SERVICES INC.
ATTN: JAIME KURTEN, P.E.
1702 PANKRATZ STREET
MADISON, WI 53704
PHONE: (608) 242-7779
EMAIL: JKURTEN@MSA-PS.COM

CITY OF MADISON
ATTN: CHRIS PETYKOWSKI
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BLVD.
MADISON, WI 53703
PHONE: (608) 267-8678
EMAIL: CPETYKOWSKI@CITYOFMADISON.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3301
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

UTILITIES

COMMUNICATIONS
AT&T
ATTN: CAROL ANASON
316 W. WASHINGTON AVENUE
ROOM 607
MADISON, WI 53703
PHONE: (608) 252-2385
EMAIL: CA2624@ATT.COM

COMMUNICATIONS
CHARTER COMMUNICATIONS
ATTN: JOHN MARSCHKE
2701 DANIELS STREET
MADISON, WI 53718
PHONE: (608) 274-3822
EMAIL: JMARSCHKE@CHARTERCOM.COM

ELECTRIC
MADISON GAS & ELECTRIC COMPANY (MG&E)
ATTN: NICK SHROEDER
P.O. BOX 1231
MADISON, WI 53701
PHONE: (608) 252-7379
EMAIL: NSHROEDER@MGE.COM

GAS
MADISON GAS & ELECTRIC COMPANY (MG&E)
ATTN: ROGER AHLES
P.O. BOX 1231
MADISON, WI 53701
PHONE: (608) 252-7224
EMAIL: RAHLES@MGE.COM

SANITARY SEWER
CITY OF MADISON
ATTN: MARK MODER
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BLVD.
MADISON, WI 53703
PHONE: (608) 261-9250
EMAIL: MMODER@CITYOFMADISON.COM

SANITARY SEWER
CITY OF MONONA
ATTN: DAN STEPHANY
5211 SCHLUTER ROAD
MONONA, WI 53716
PHONE: (608) 222-2525
EMAIL: DSTEPHANY@CI.MONONA.WI.US

SANITARY SEWER
MADISON METROPOLITAN SEWERAGE DISTRICT (MMSD)
ATTN: ERIC HUELLEN
1610 MOORLAND ROAD
MADISON, WI 53713
PHONE: (608) 222-1201 EXT. 348
EMAIL: ERICHE@MADSEWER.ORG

STORM SEWER
CITY OF MADISON
ATTN: JANET SCHMIDT
210 MARTIN LUTHER KING JR. BLVD, ROOM 115
MADISON, WI 53703
PHONE: (608) 261-9688
EMAIL: JSCHMIDT@CITYOFMADISON.COM

TRAFFIC SIGNALS/STREET LIGHTING
CITY OF MADISON
ATTN: YANG TAO
MADISON MUNICIPAL BUILDING, SUITE 100
215 MARTIN LUTHER KING JR. BLVD
MADISON, WI 53703
PHONE: (608) 266-4815
EMAIL: YTAO@CITYOFMADISON.COM

WATERMAIN
CITY OF MADISON
ATTN: PETE HOLMGREN
119 E. OLIN AVENUE
MADISON, WI 53713
PHONE: (608) 261-5530
EMAIL: PHOLMGREN@MADISONWATER.ORG

STANDARD ABBREVIATIONS

AC ACRES
AEW APRON ENDWALL
AH AHEAD
ALUM. ALUMINUM
A.P. ACCESS POINT
ASPH ASPHALT
AVE AVENUE
BAD BASE AGGREGATE DENSE
BK BACK
BLK BLOCK
BM BENCHMARK
CABC CRUSHED AGGREGATE BASE COURSE
CL or CL CENTERLINE
Δ CENTRAL ANGLE or DELTA
CONC CONCRETE
CP CONTROL POINT
CSM CERTIFIED SURVEY MAP
D DEGREE OF CURVE
DIA DIAMETER
E EAST
EB EASTBOUND
EBS EXCAVATION BELOW SUBGRADE
EOP EDGE OF PAVEMENT
ET AL AND OTHERS
EW ENDWALL
EXIST EXISTING
FOC FACE OF CURB
FT FOOT
FT2 SQUARE FEET
GN GRID NORTH
GV GAS VALVE
HYD HYDRANT
IN INCH
INL INLET
INV INVERT ELEVATION
IP IRON PIPE
L LENGTH
L LENGTH OF CURVE
LF LINEAL FEET
LC LONG CHORD
LCB LONG CHORD BEARING
LP LOW POINT
LS LUMP SUM
LT LEFT
MH MANHOLE
MI MILE
MON MONUMENT
N NORTH
NB NORTHBOUND
NO NUMBER
PB PULLBOX
PC POINT OF CURVATURE
PI POINT OF INTERSECTION
PT POINT
PT POINT OF TANGENCY
PL PROPERTY LINE
PLE PERMANENT LIMITED EASEMENT
POB POINT OF BEGINNING
R RADIUS
R RANGE
RCP REINFORCED CONCRETE PIPE
REQ'D REQUIRED
RL or R/L REFERENCE LINE
RP RADIUS POINT
RT RIGHT
R/W RIGHT-OF-WAY
RD ROAD
S SOUTH
SAN SANITARY SEWER
SB SOUTHBOUND
SL SPECIAL LOGO
SQ SQUARE
STD STANDARD
SEC SECTION
SSPRC STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE STORM SEWER PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL
ST STREET
STA STATION
STH STATE TRUNK HIGHWAY
STM STORM SEWER
STR STRUCTURE
T TANGENT
TAN TANGENT
TEMP TEMPORARY
TLE TEMPORARY LIMITED EASEMENT
T or TN TOWN
TYP. TYPICAL
UD PIPE UNDERDRAIN
WM WATERMAIN
WV WATER VALVE
W WEST
WB WESTBOUND
X EAST GRID COORDINATE
Y NORTH GRID COORDINATE



**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

MADISON GAS & ELECTRIC EMERGENCY CONTACT NUMBERS:
ELECTRIC 24-HOUR EMERGENCY SERVICE: (608) 252-7111
GAS 24-HOUR EMERGENCY SERVICE: (608) 252-1111

PROJECT NO: 5992-10-16

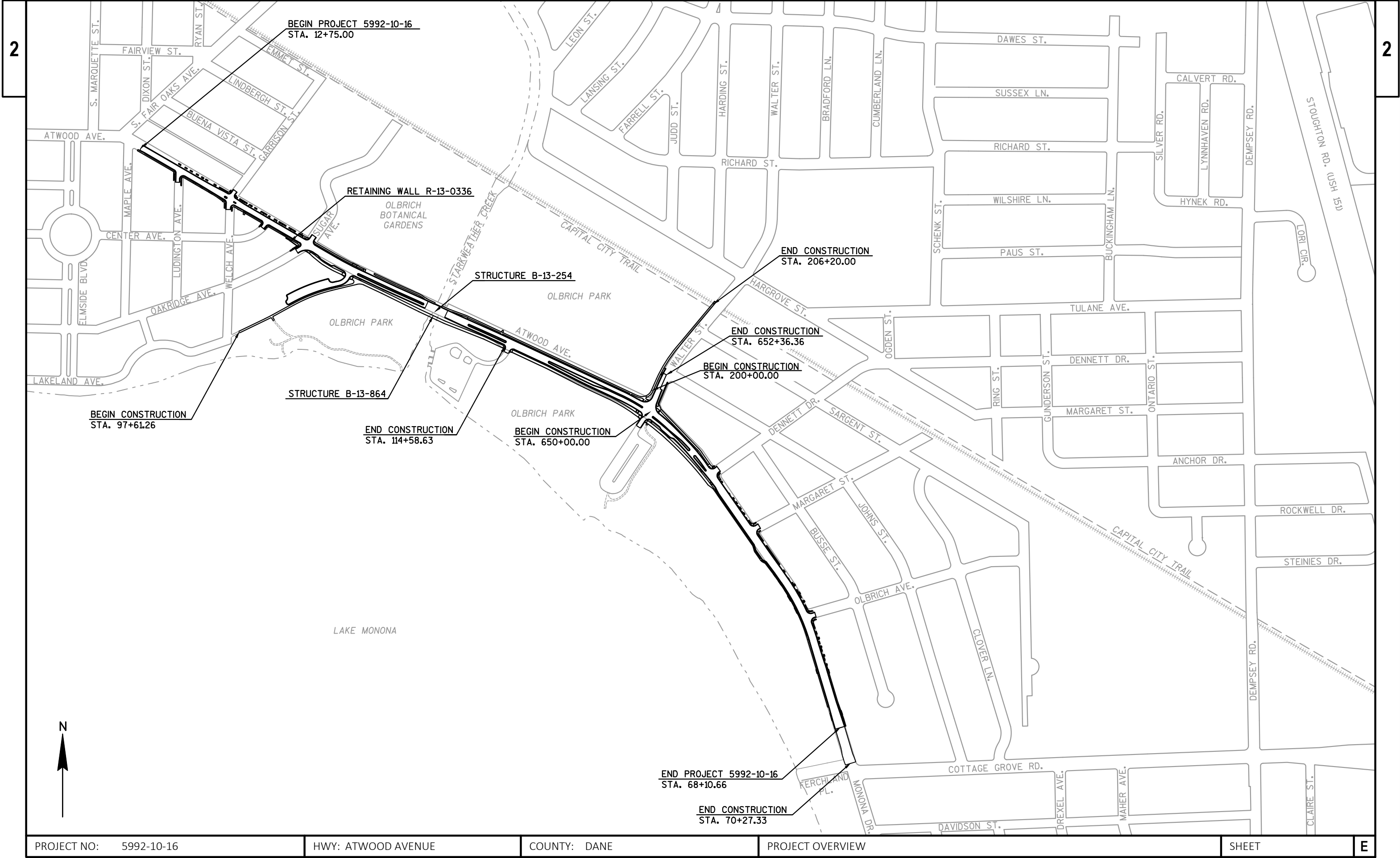
HWY: ATWOOD AVENUE

COUNTY: DANE

GENERAL NOTES

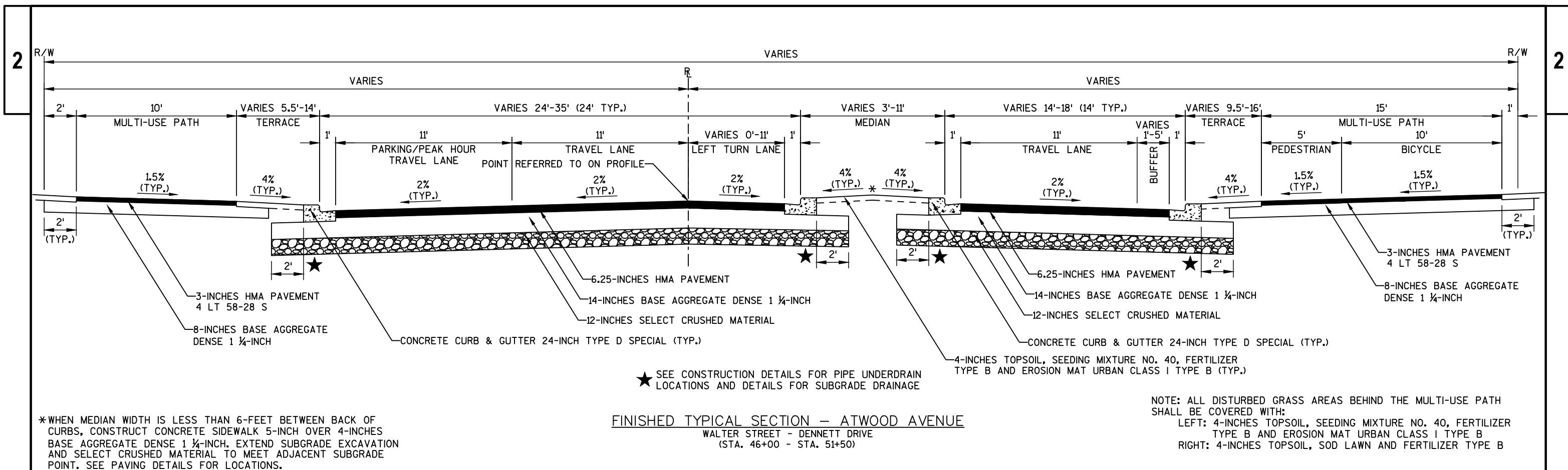
SHEET

E

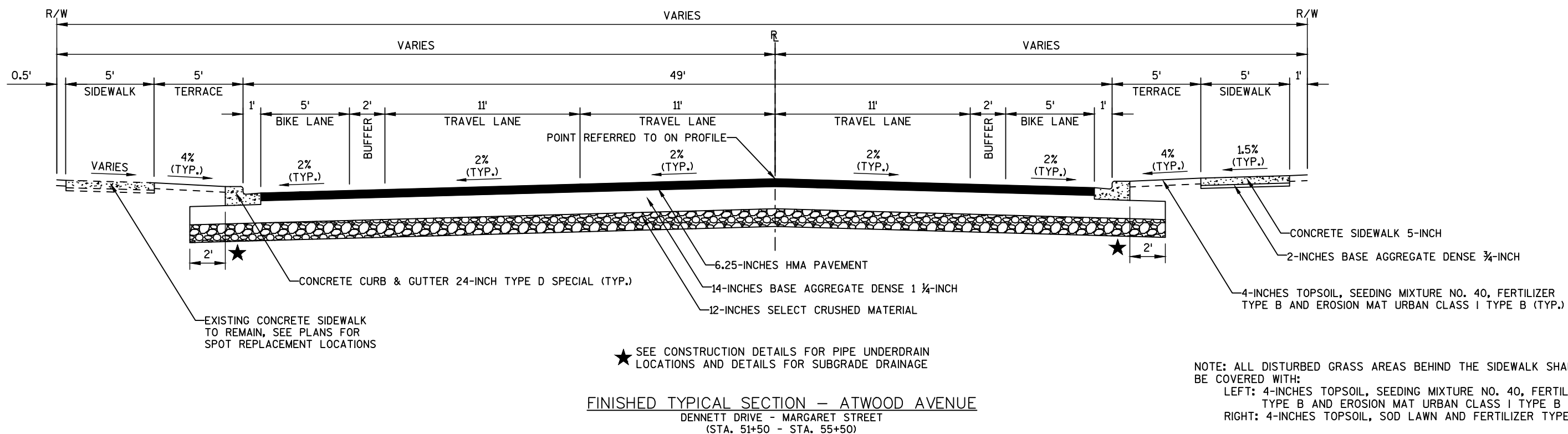


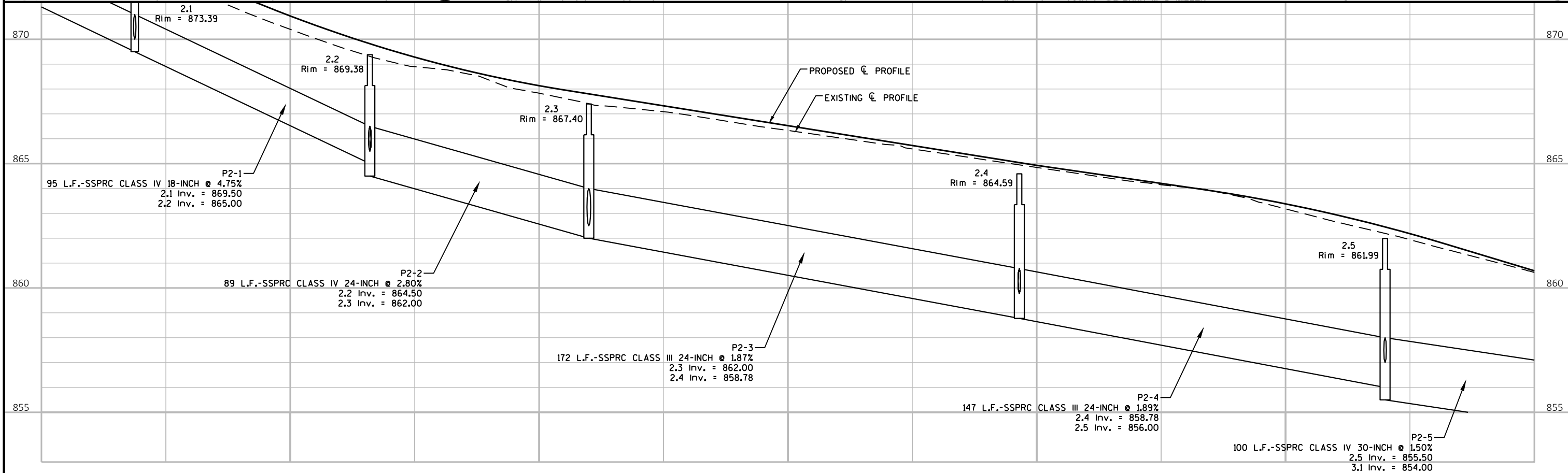
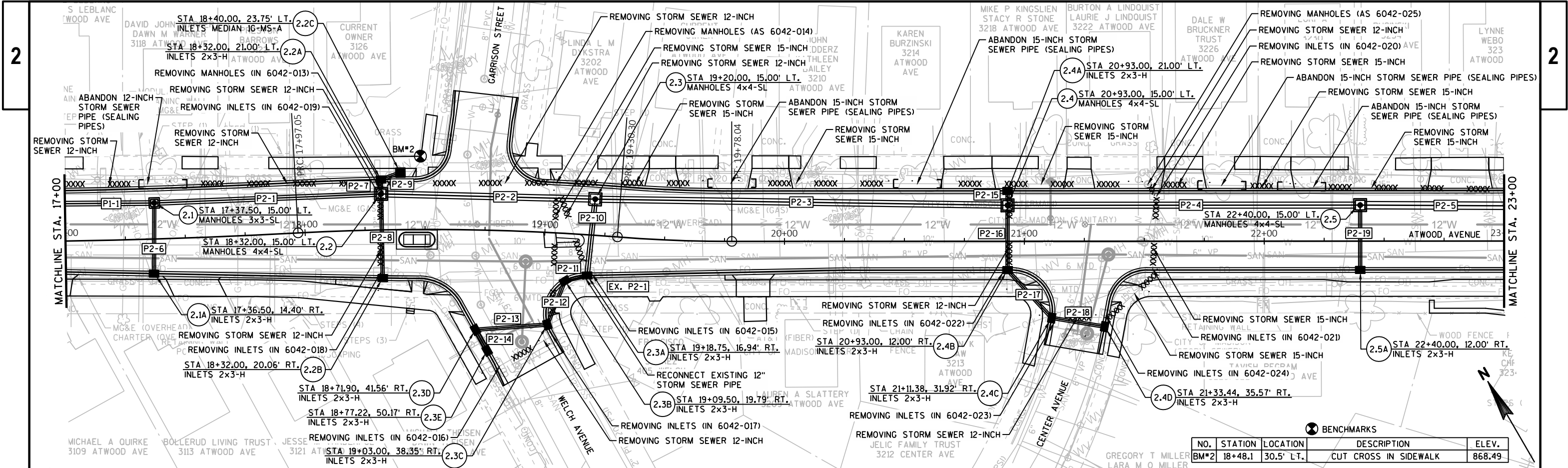
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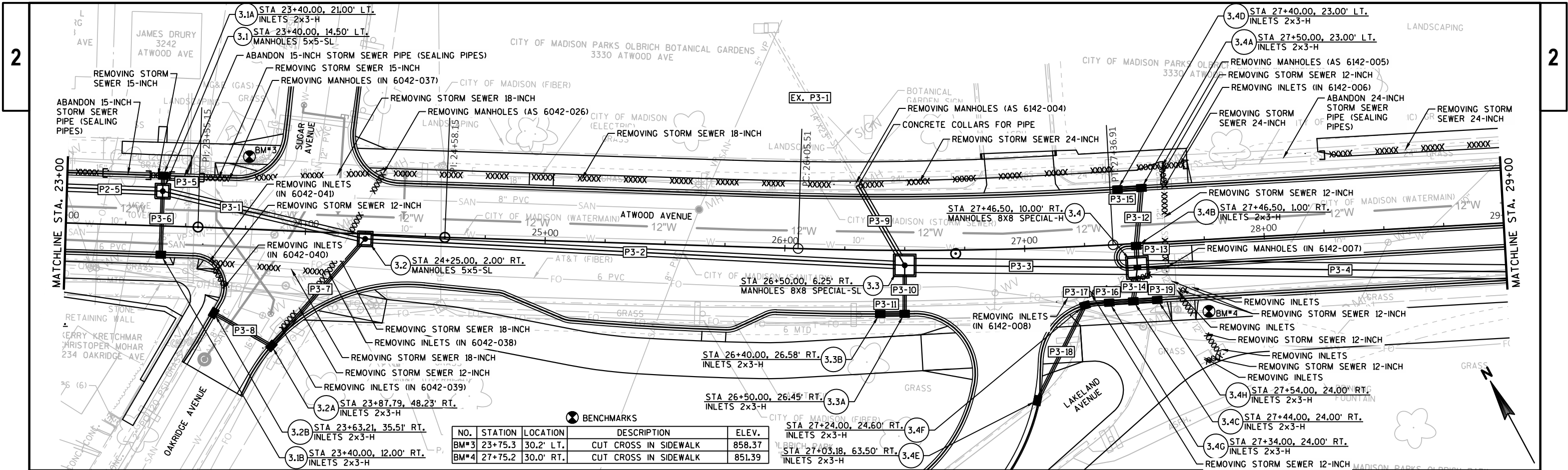


FINISHED TYPICAL SECTION - ATWOOD AVENUE
WALTER STREET - DENNETT DRIVE
(STA. 46+00 - STA. 51+50)

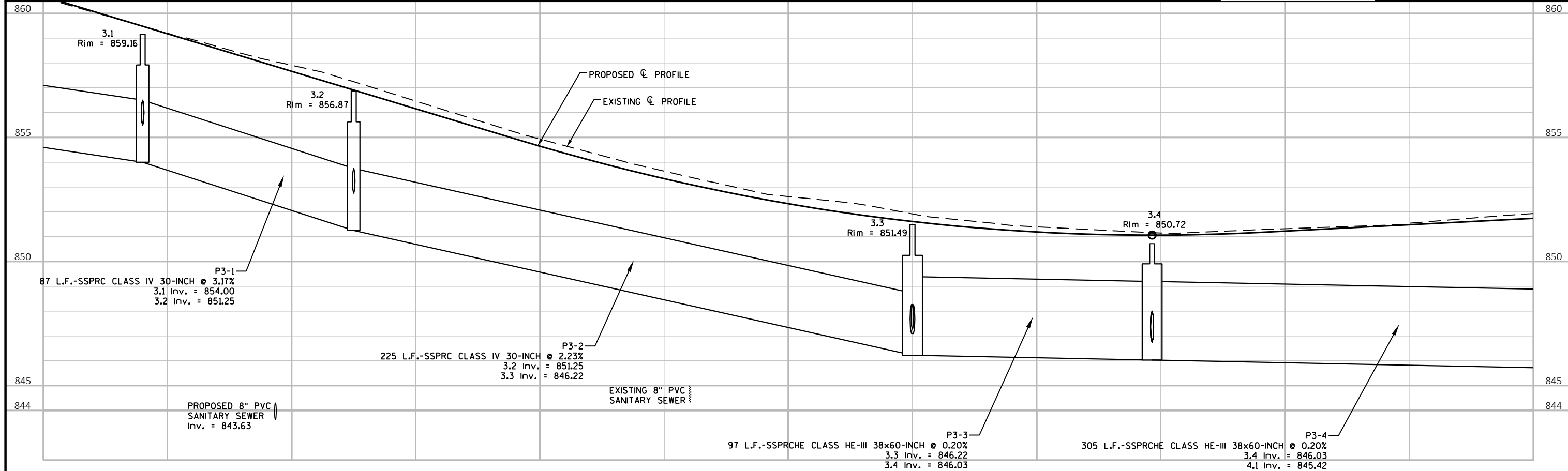


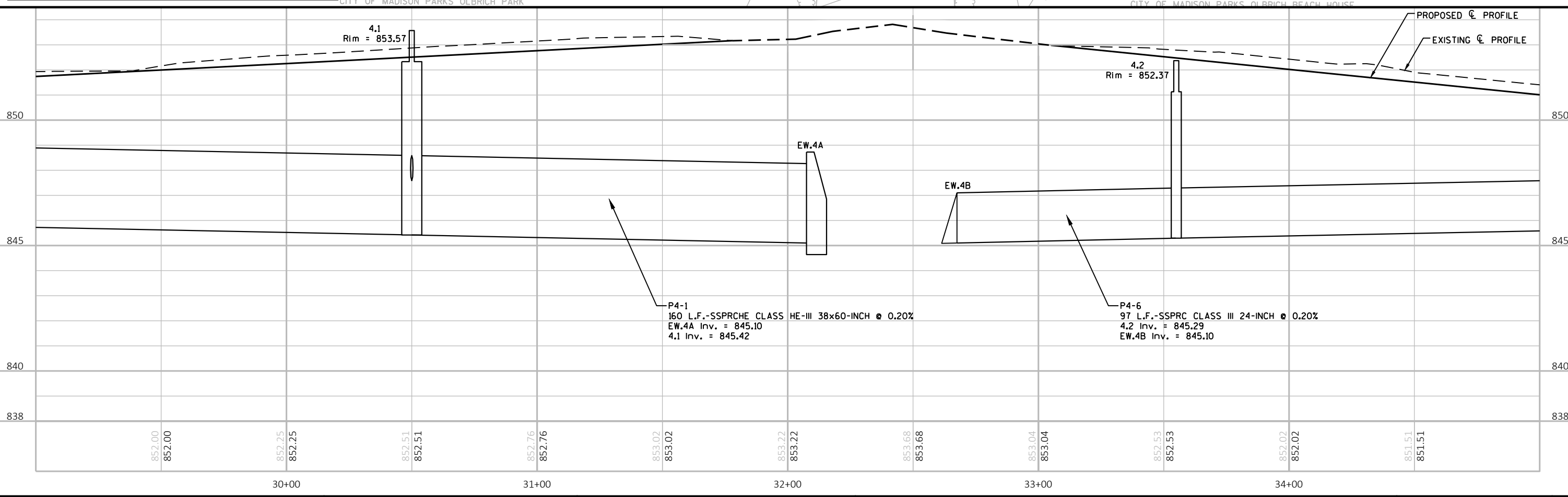


PROJECT NO:	5992-10-16	HWY:	ATWOOD AVENUE	COUNTY:	DANE	STORM SEWER	SHEET	E
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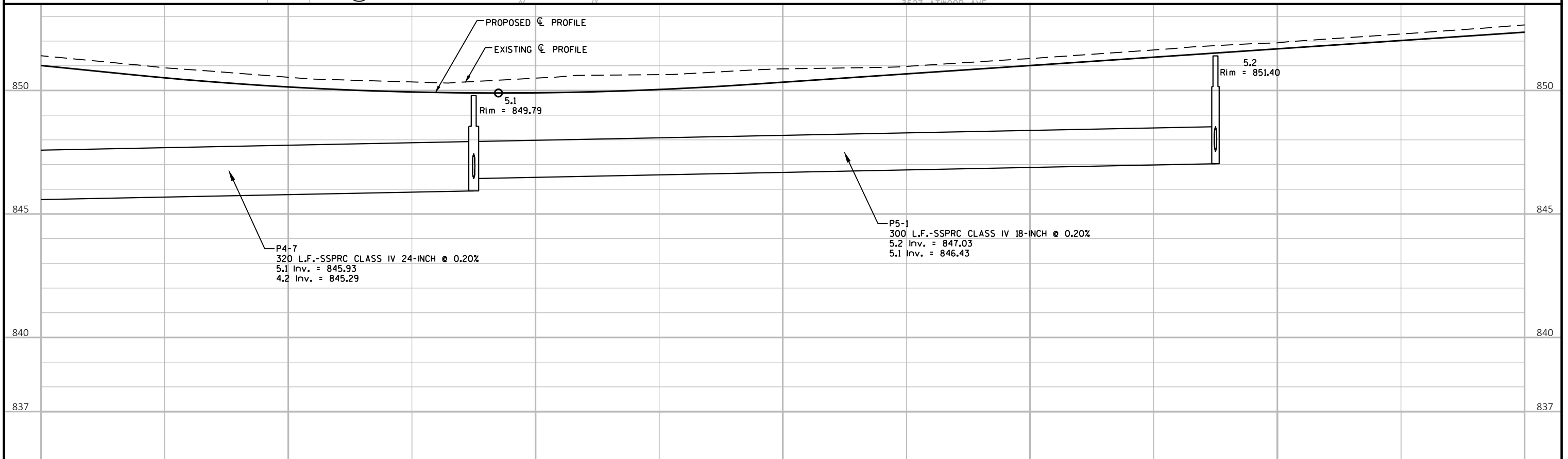
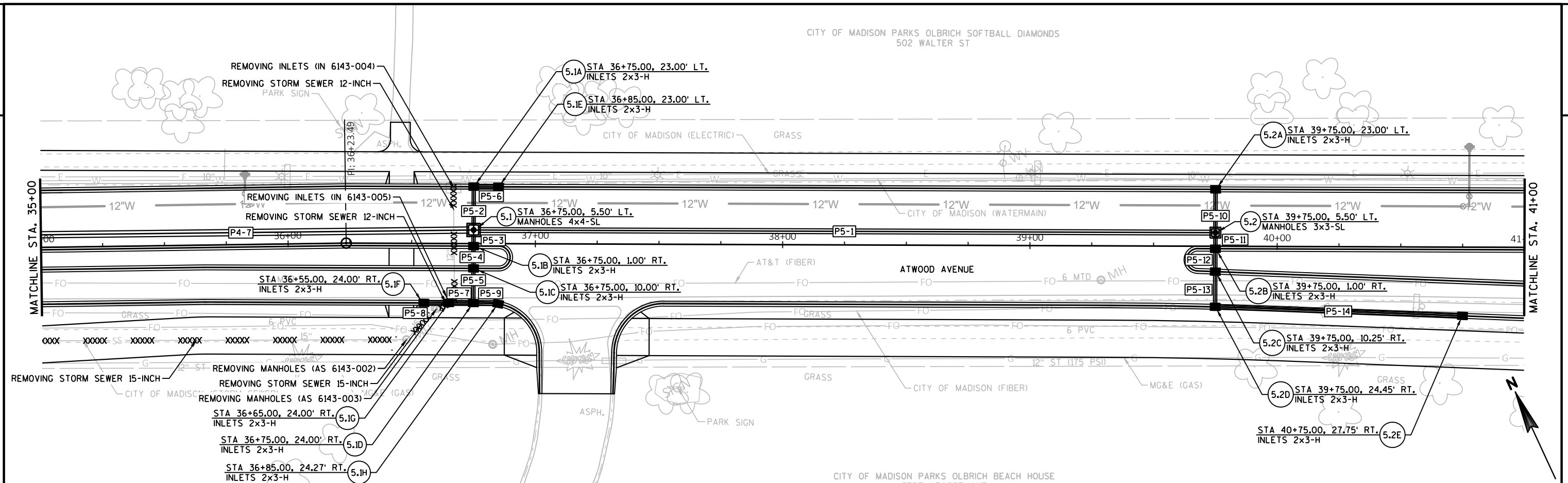


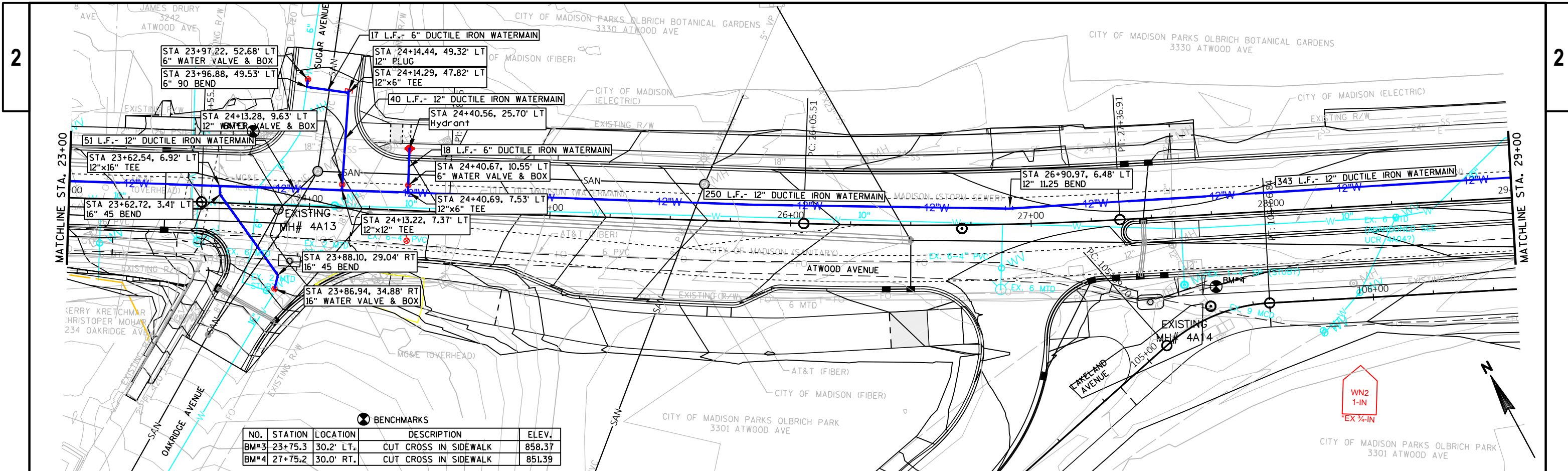
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
BM#3	23+75.3	30.2' LT.	CUT CROSS IN SIDEWALK	858.37
BM#4	27+75.2	30.0' RT.	CUT CROSS IN SIDEWALK	851.39



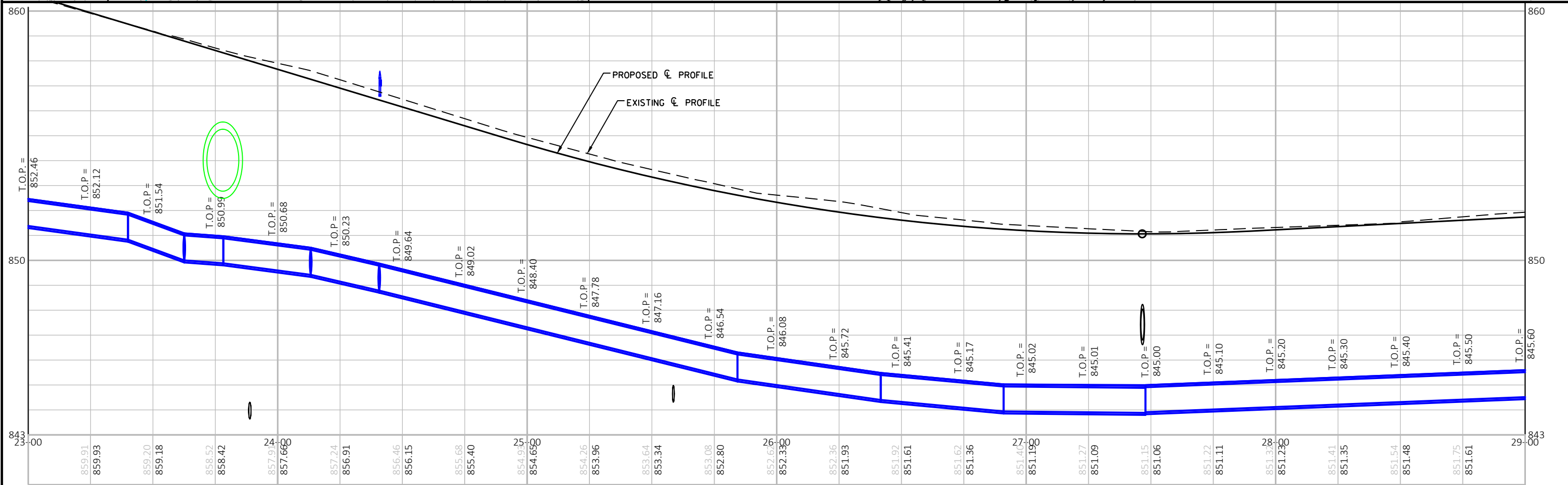


P:\3705\373\00373071\CADD\DESIGN\PIPNETWORKS\STORM SEWER.DWG						
LAYOUT NAME - 022504-ss	PLOT DATE :	3/12/2019 10:03 AM	PLOT BY :	JASON DOLENS	PLOT NAME :	PLOT SCALE : 1 IN=40 FT
						WISDOT/CADDS SHEET

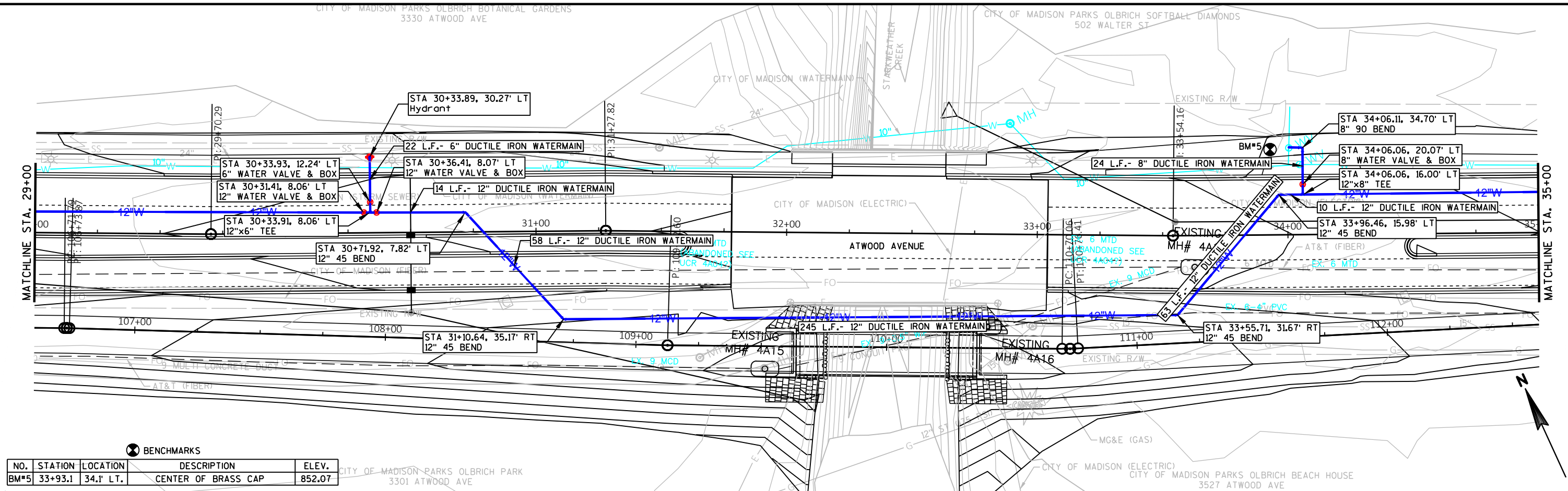




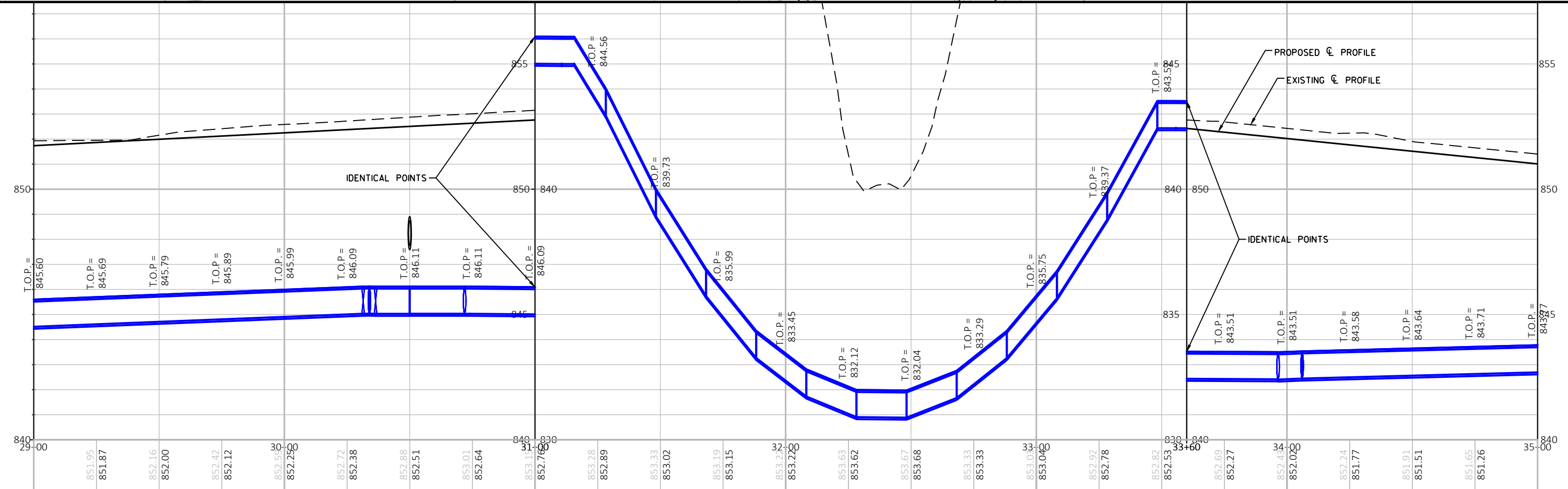
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
BM#3	23+75.3	30.2' LT.	CUT CROSS IN SIDEWALK	858.37
BM#4	27+75.2	30.0' RT.	CUT CROSS IN SIDEWALK	851.39



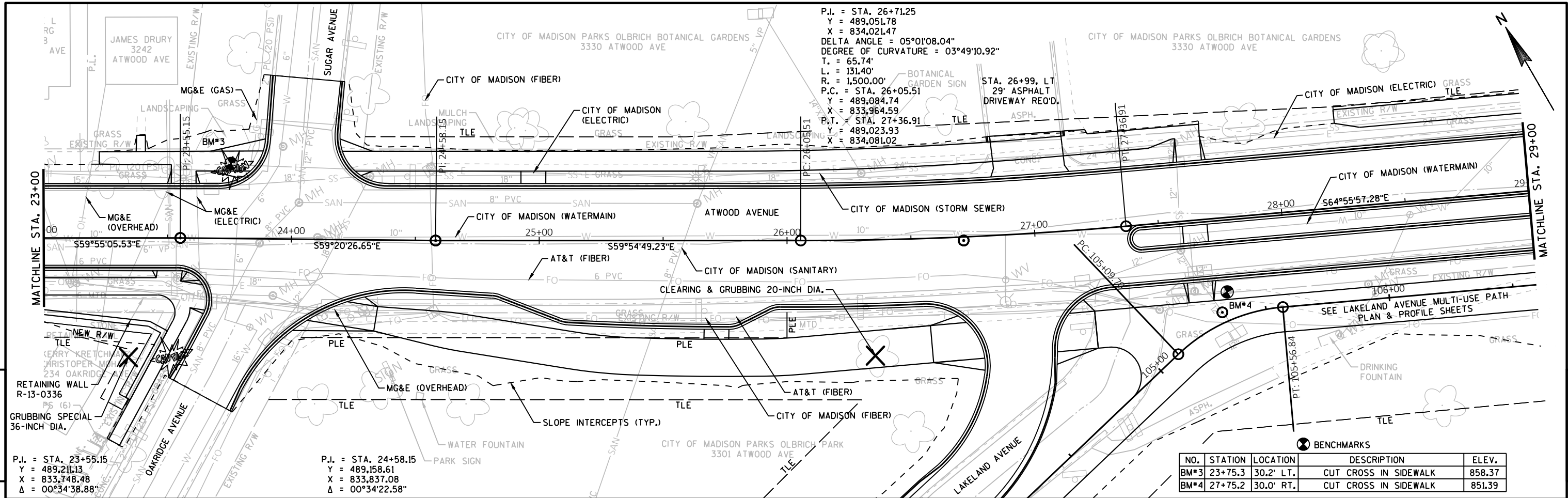
PROJECT NO: 5992-10-16	HWY: ATWOOD AVENUE	COUNTY: DANE	WATERMAIN	SHEET	E
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BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
BM#5	33+93.1	34.1' LT.	CENTER OF BRASS CAP	852.07



PROJECT NO:	5992-10-16	HWY: ATWOOD AVENUE	COUNTY: DANE	WATERMAIN	SHEET	E
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BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
BM#5	33+93.1	34.1' LT.	CENTER OF BRASS CAP	852.07

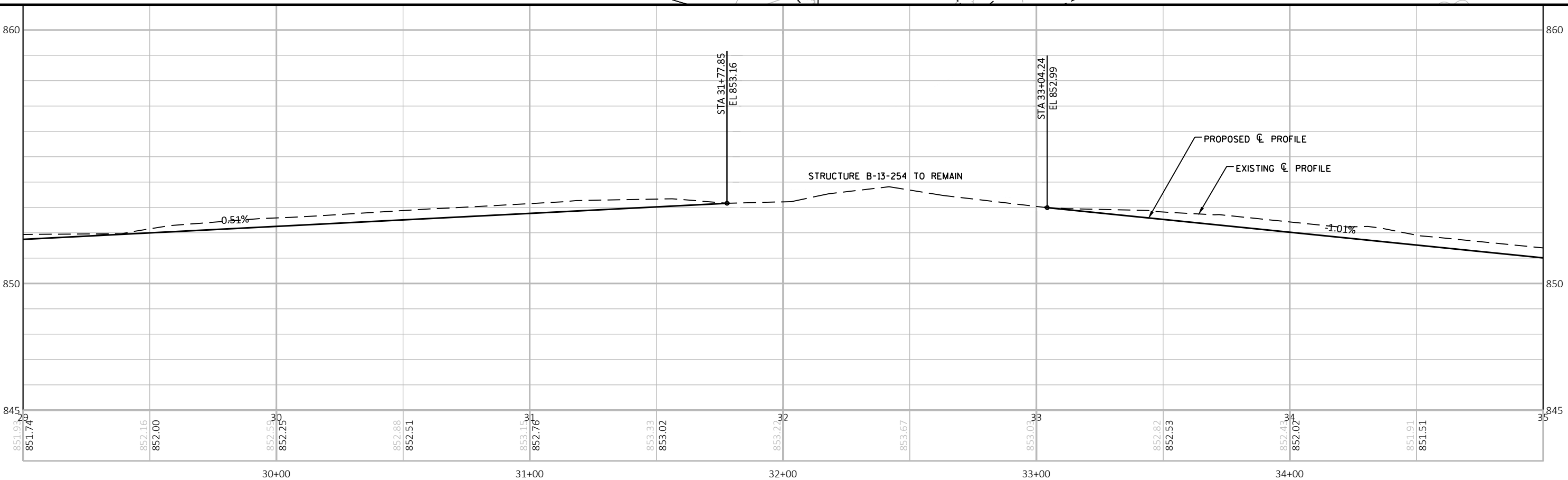
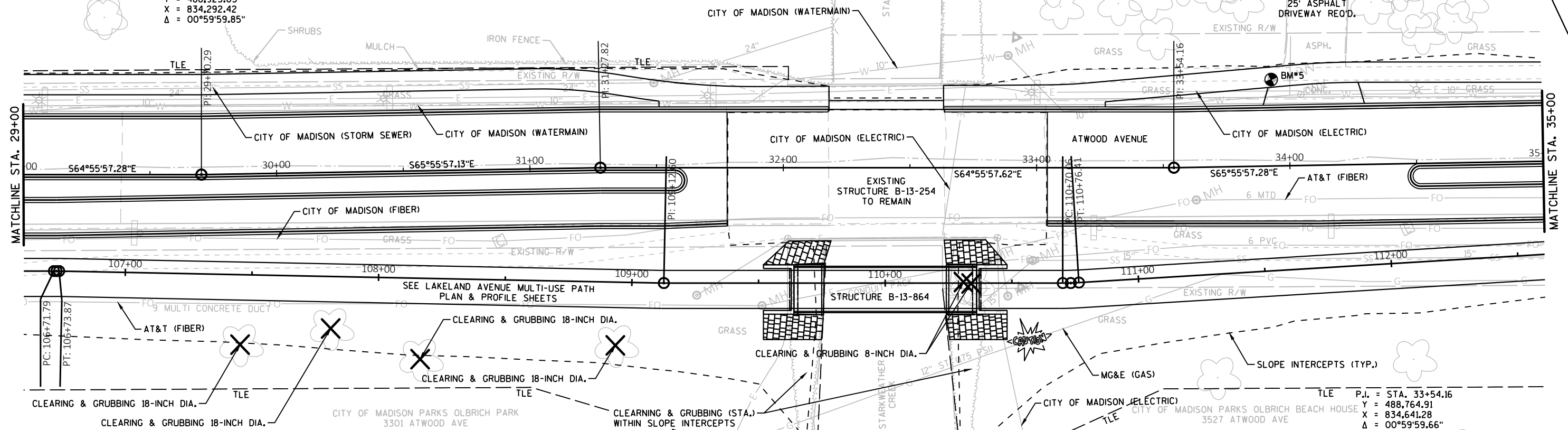
CITY OF MADISON PARKS OLBRICH BOTANICAL GARDENS
3330 ATWOOD AVE

P.I. = STA. 31+27.82
Y = 488,860.81
X = 834,436.26
Δ = 00°59'59.51"

P.I. = STA. 29+70.29
Y = 488,925.05
X = 834,292.42
Δ = 00°59'59.85"

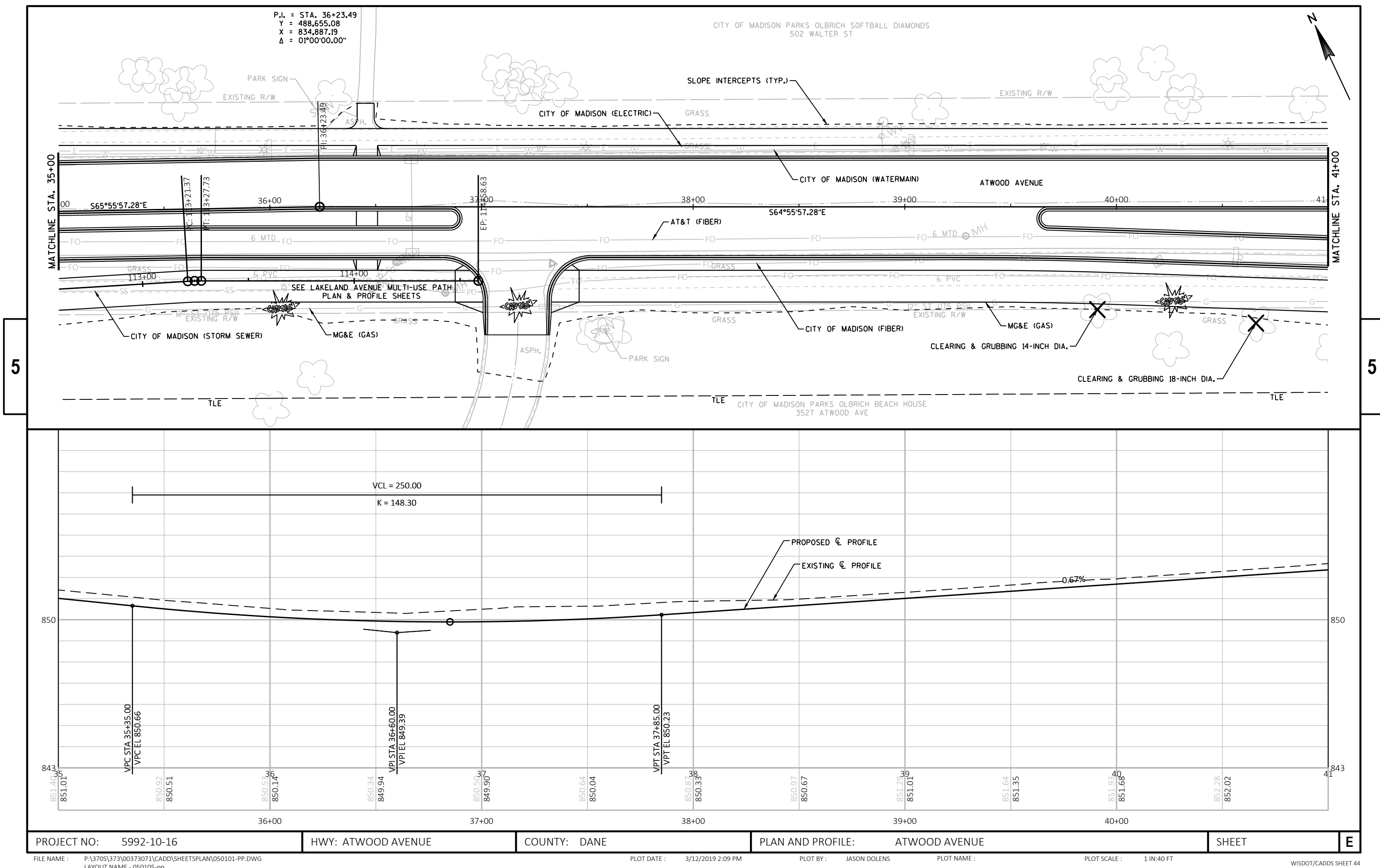
CITY OF MADISON PARKS OLBRICH SOFTBALL DIAMONDS
502 WALTER ST

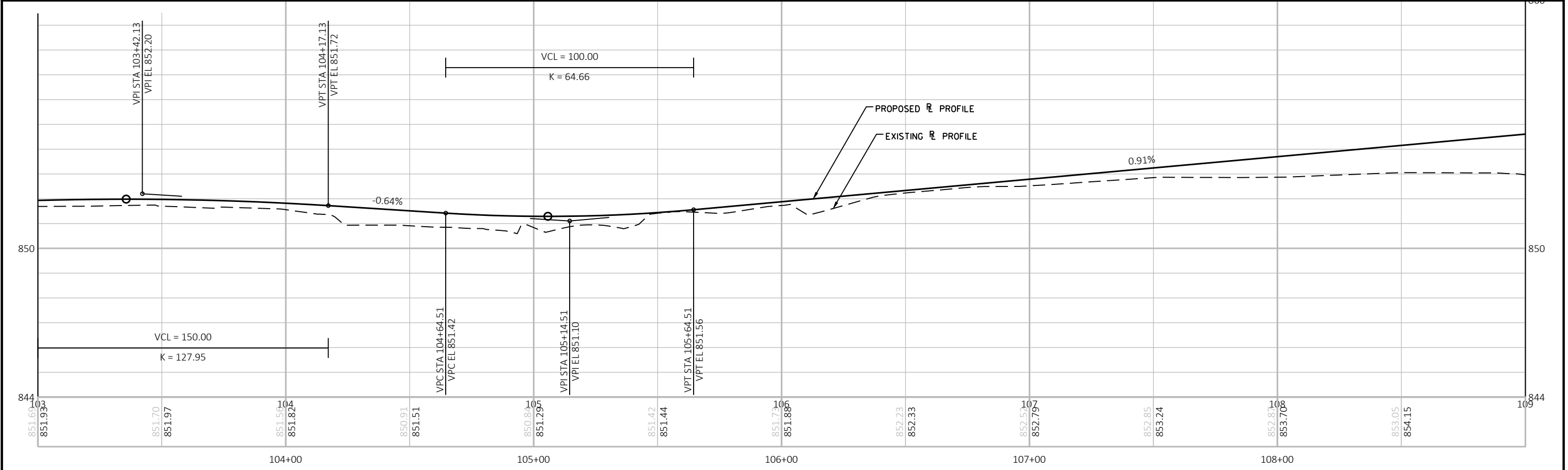
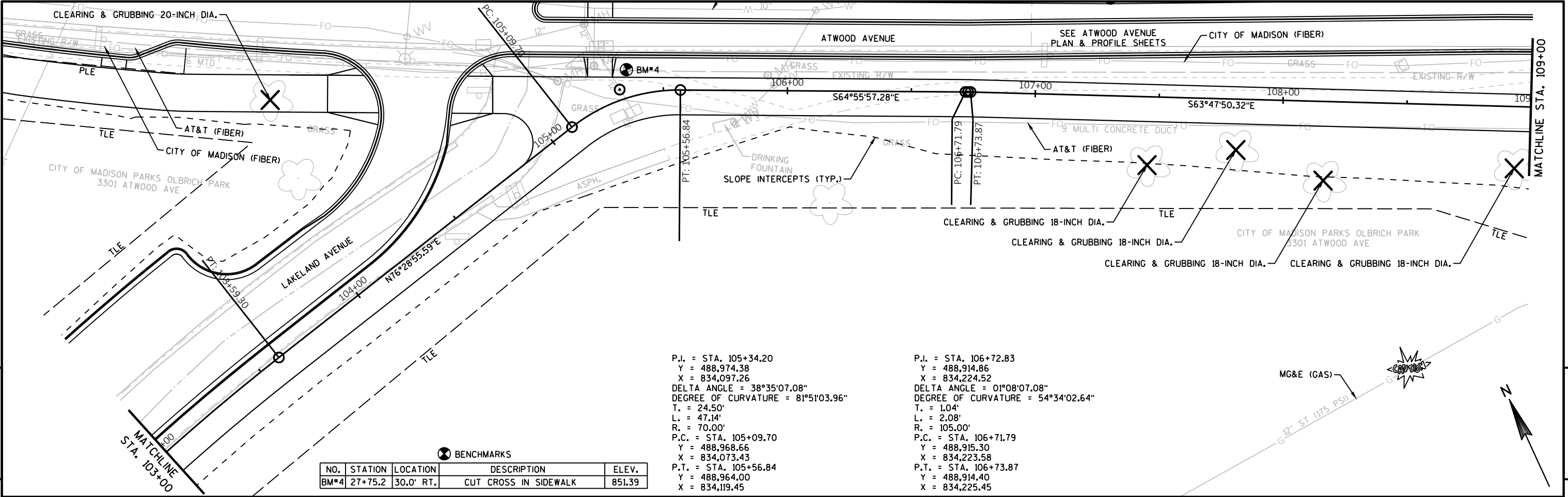
STA. 34+10, LT
25' ASPHALT
DRIVEWAY RECD.



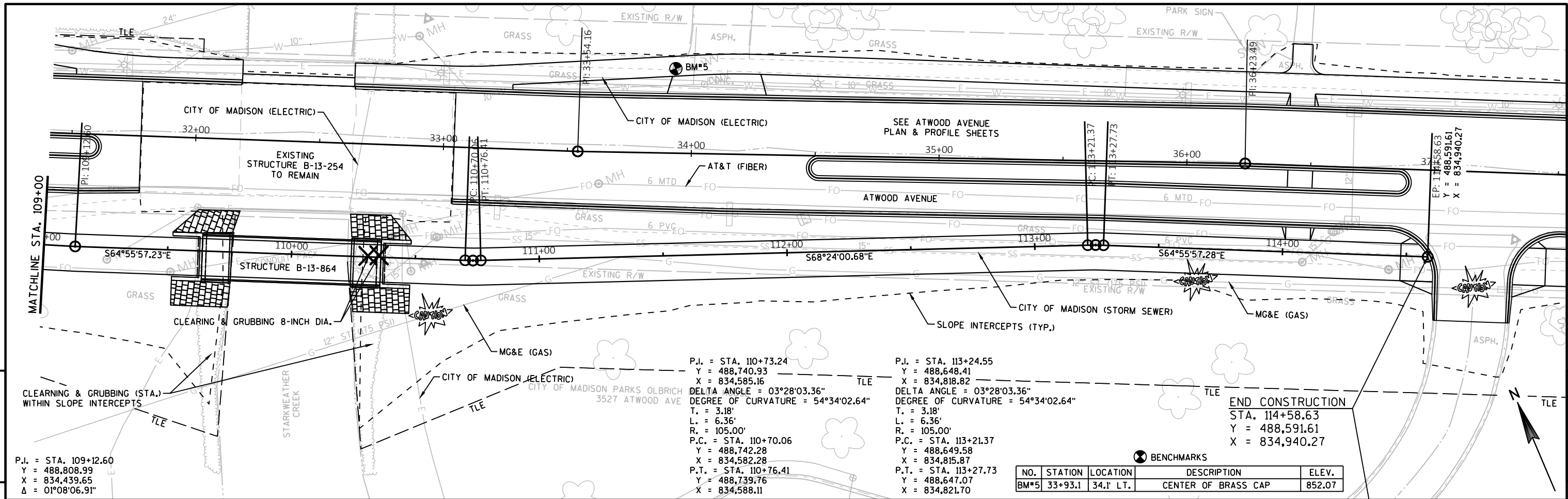
PROJECT NO: 5992-10-16	HWY: ATWOOD AVENUE	COUNTY: DANE	PLAN AND PROFILE: ATWOOD AVENUE	SHEET	E
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FILE NAME : P:\3705\373\00373071\CADD\SHETSPLAN\050101-PP.DWG
LAYOUT NAME - 050104-pp
PLOT DATE : 3/12/2019 2:08 PM
PLOT BY : JASON DOLENS
PLOT NAME :
PLOT SCALE : 1 IN: 40 FT
WISDOT/CADD SHEET 44

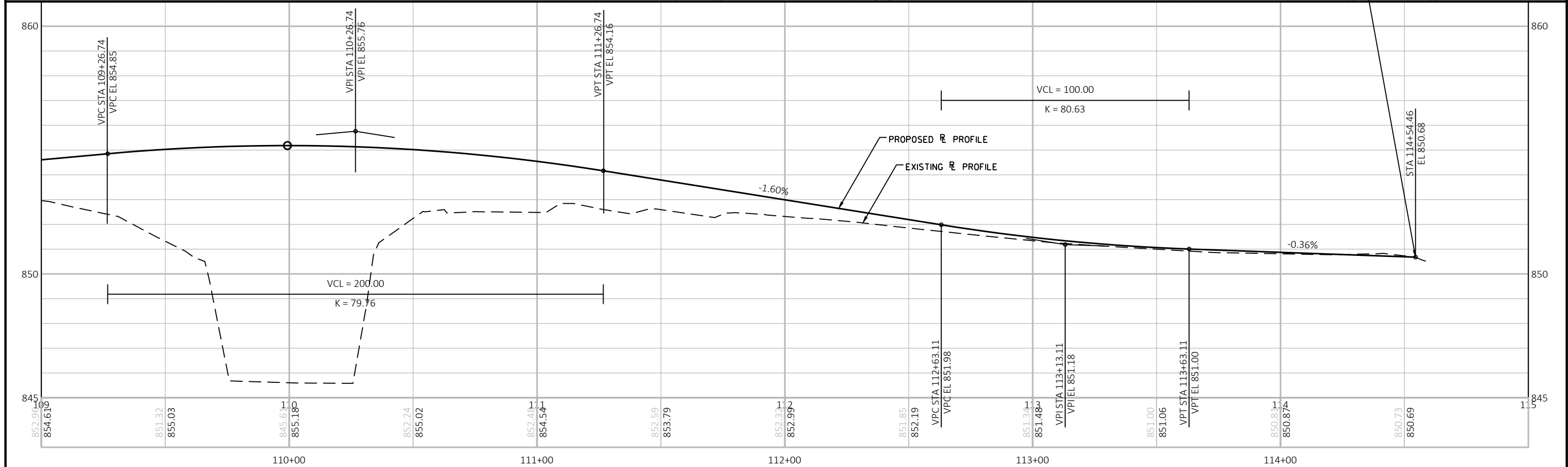


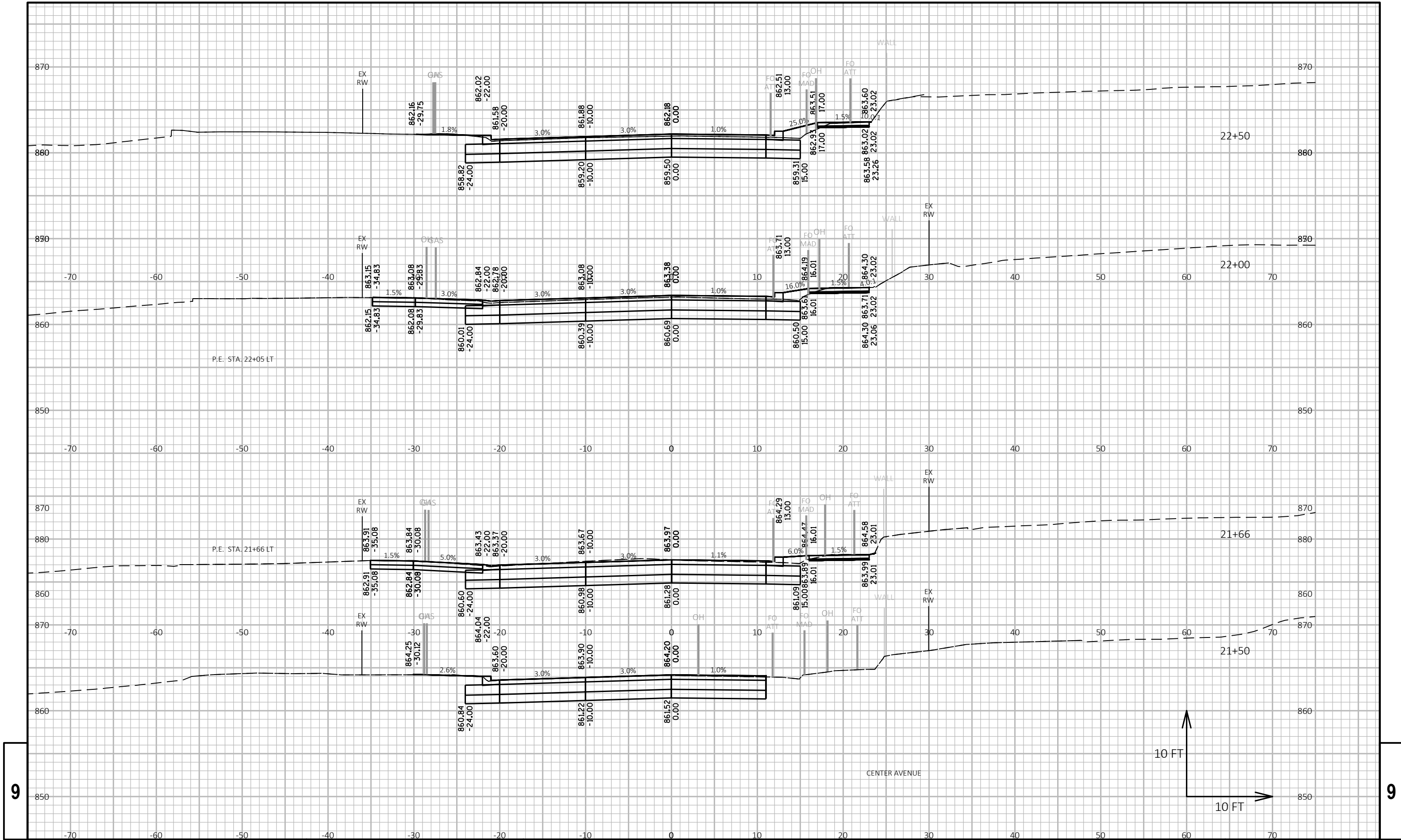


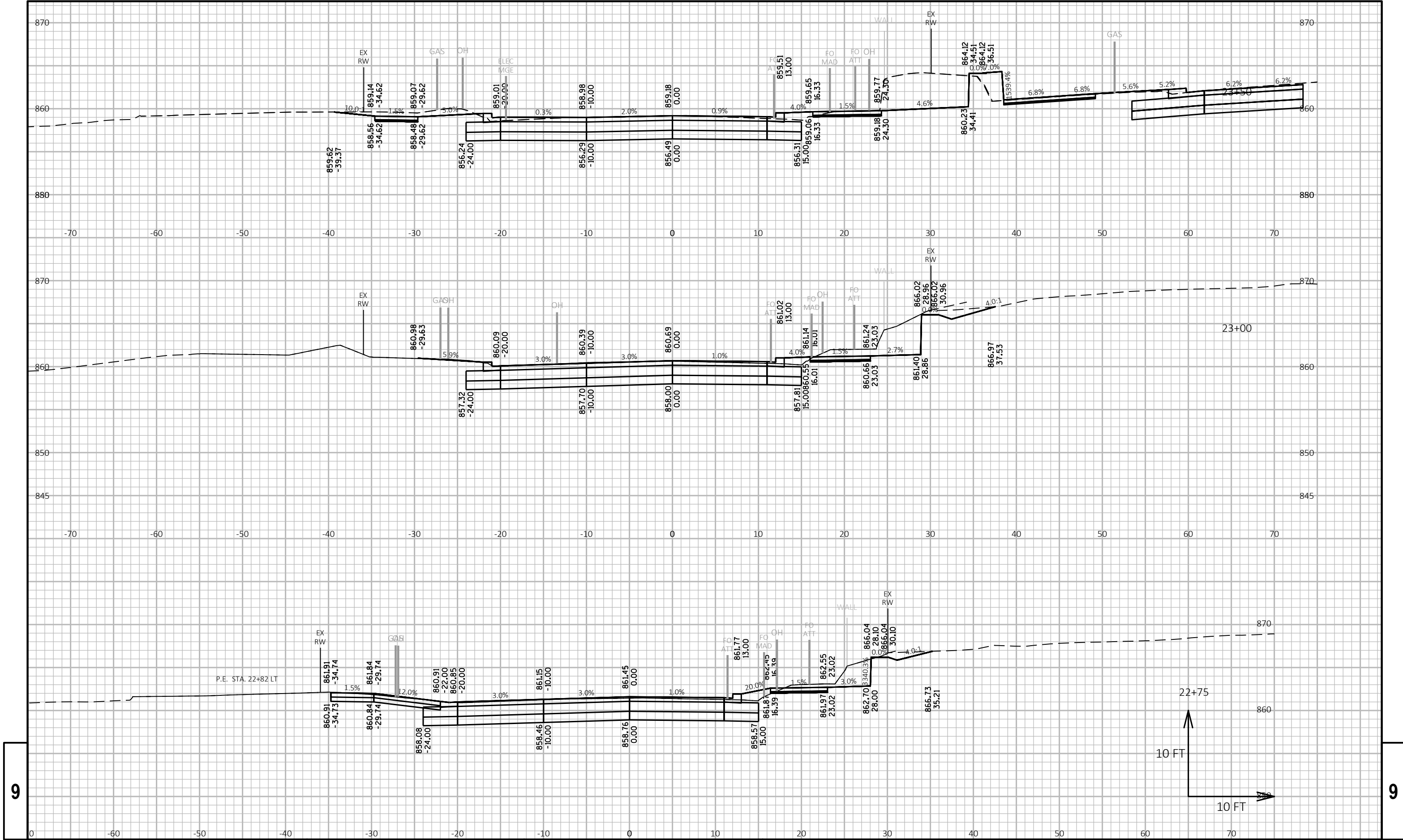
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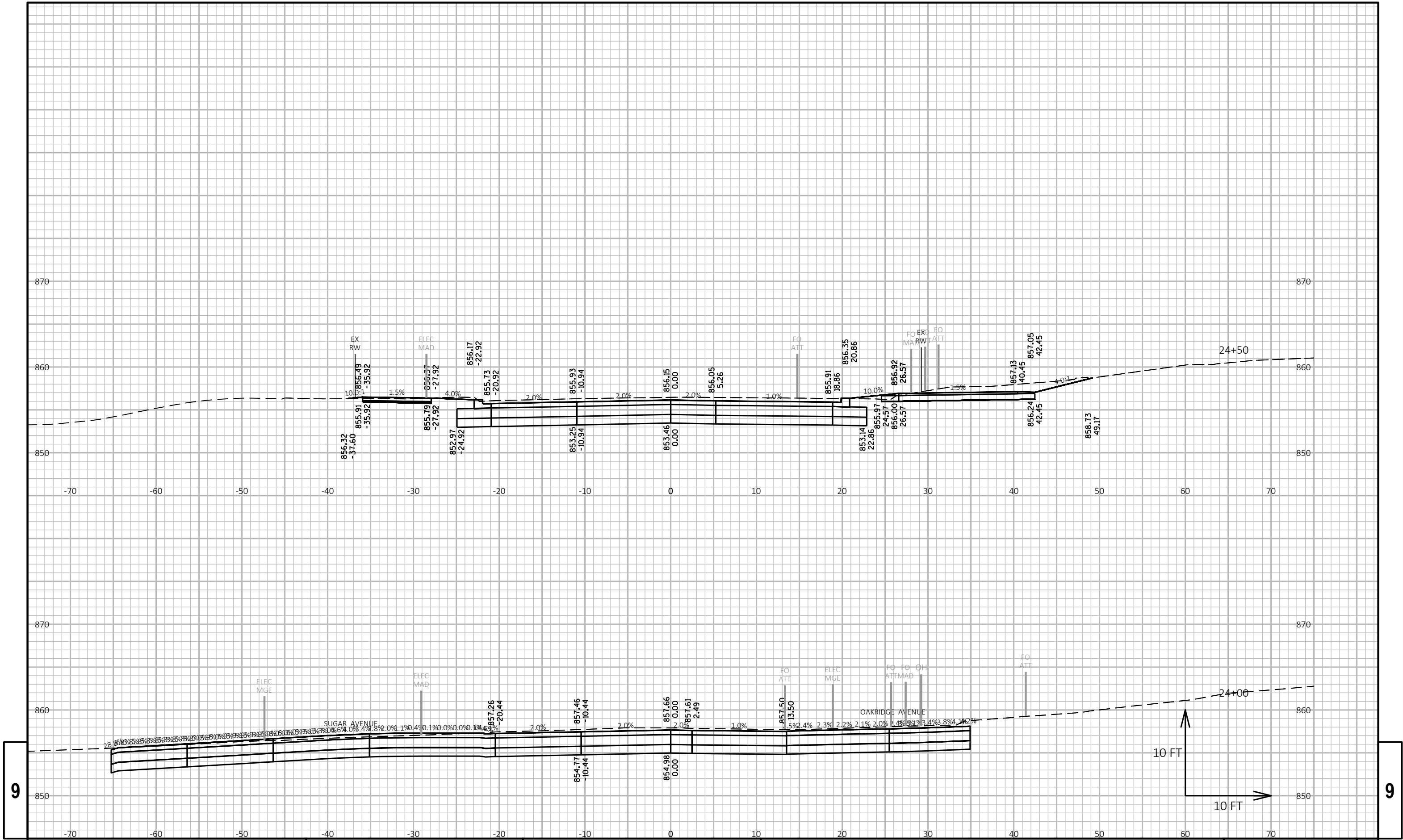


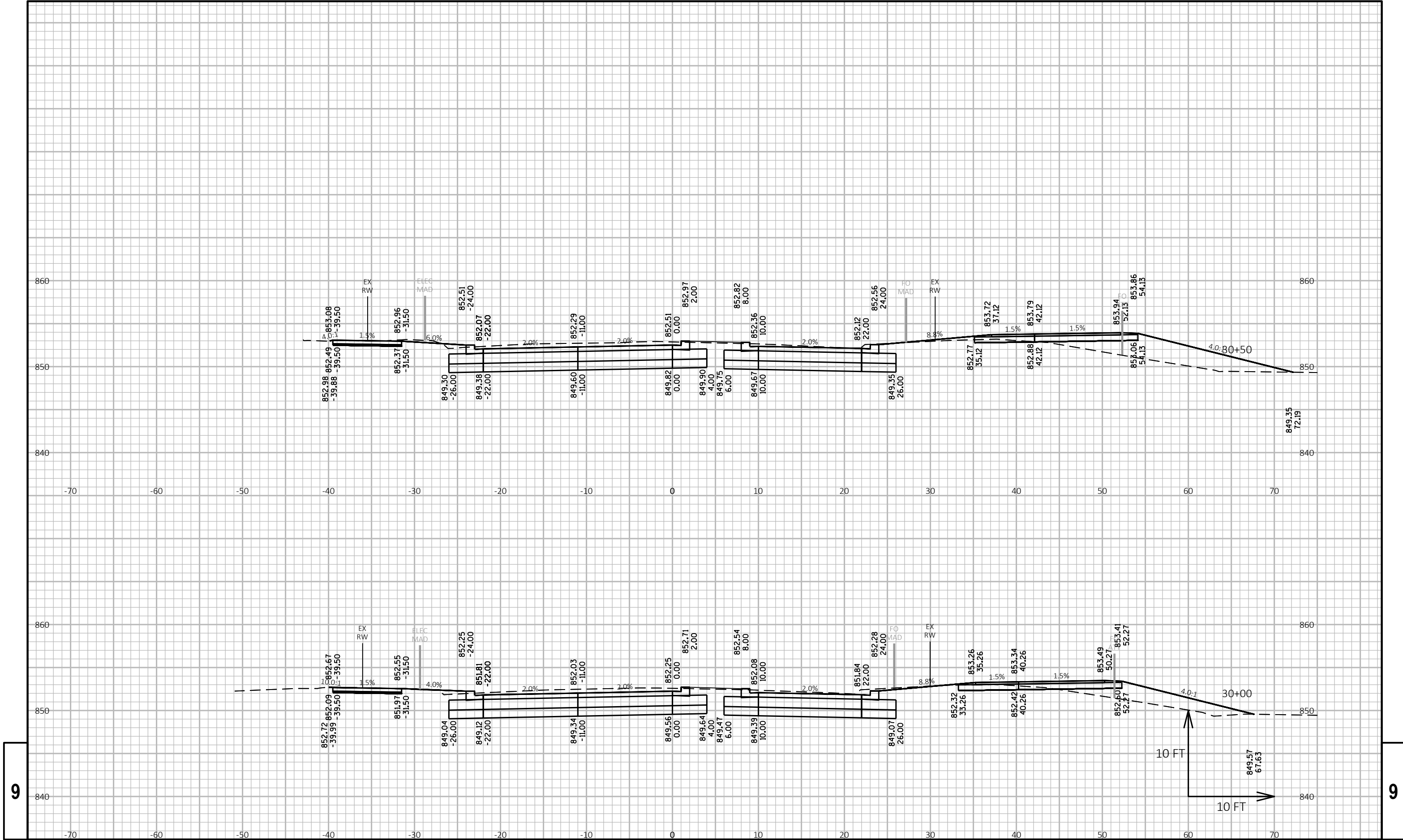
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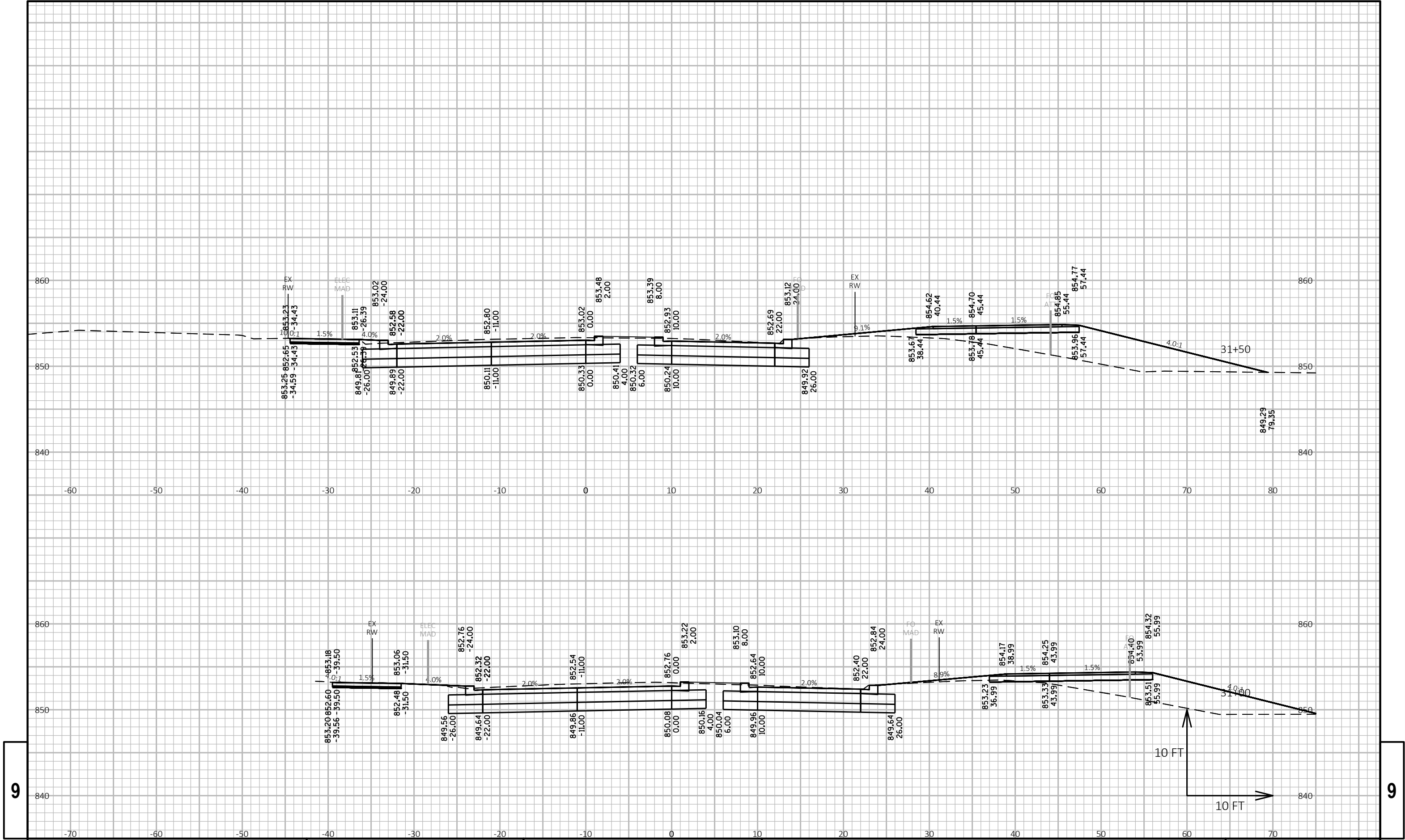




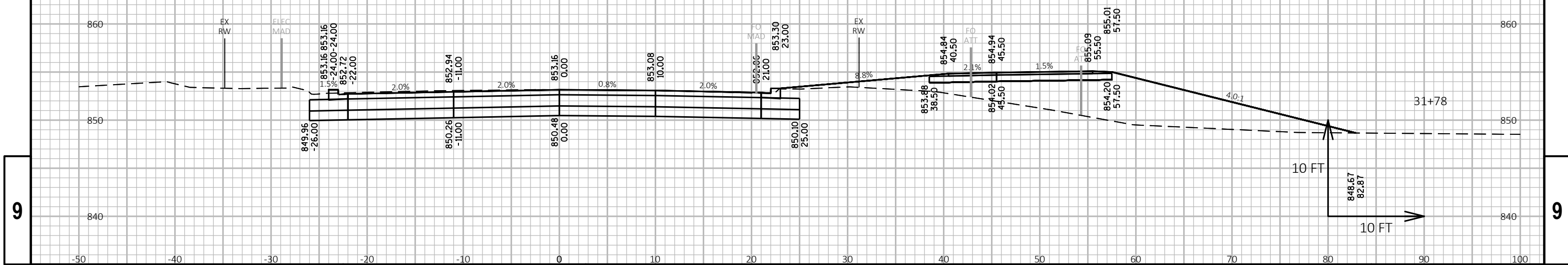








B-13-254



9

9

PROJECT NO: 5992-10-16	HWY: ATWOOD AVENUE	COUNTY: DANE	CROSS SECTIONS: ATWOOD AVENUE	SHEET	E
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