

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

DARBO DRIVE TO WEBB AVENUE

NEW STREET CONNECTION ASSESSMENT DISTRICT - 2018

(RICHARD DAVIS LANE)

MUNIS# 10234 PROJECT# 53W1867
CONTRACT NO. 7450

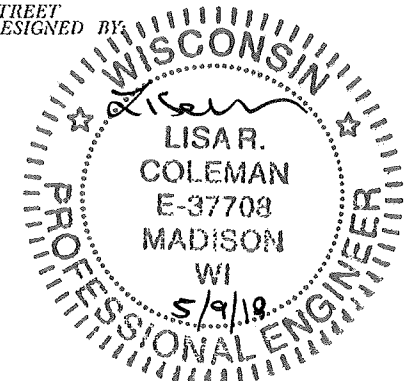
PUBLIC IMPROVEMENT PROJECT APPROVED

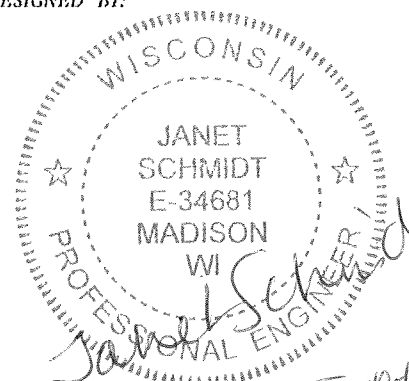
FEBRUARY 6, 2018

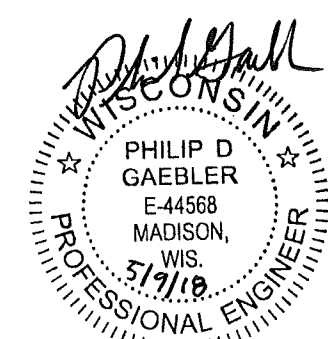
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

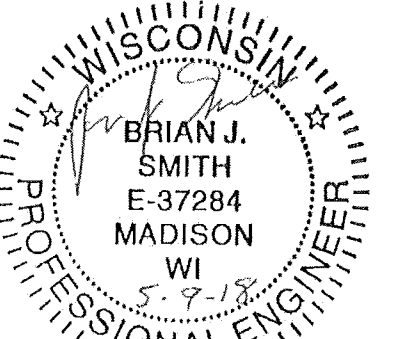
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

 5/10/18
City Engineer Date

STREET DESIGNED BY:

LISA R. COLEMAN
E-37708
MADISON WI
5/9/18
PROFESSIONAL ENGINEER

STORM SEWER DESIGNED BY:

JANET SCHMIDT
E-34681
MADISON WI
5-10-18
PROFESSIONAL ENGINEER

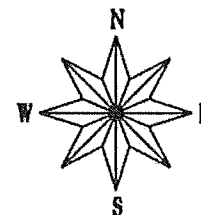
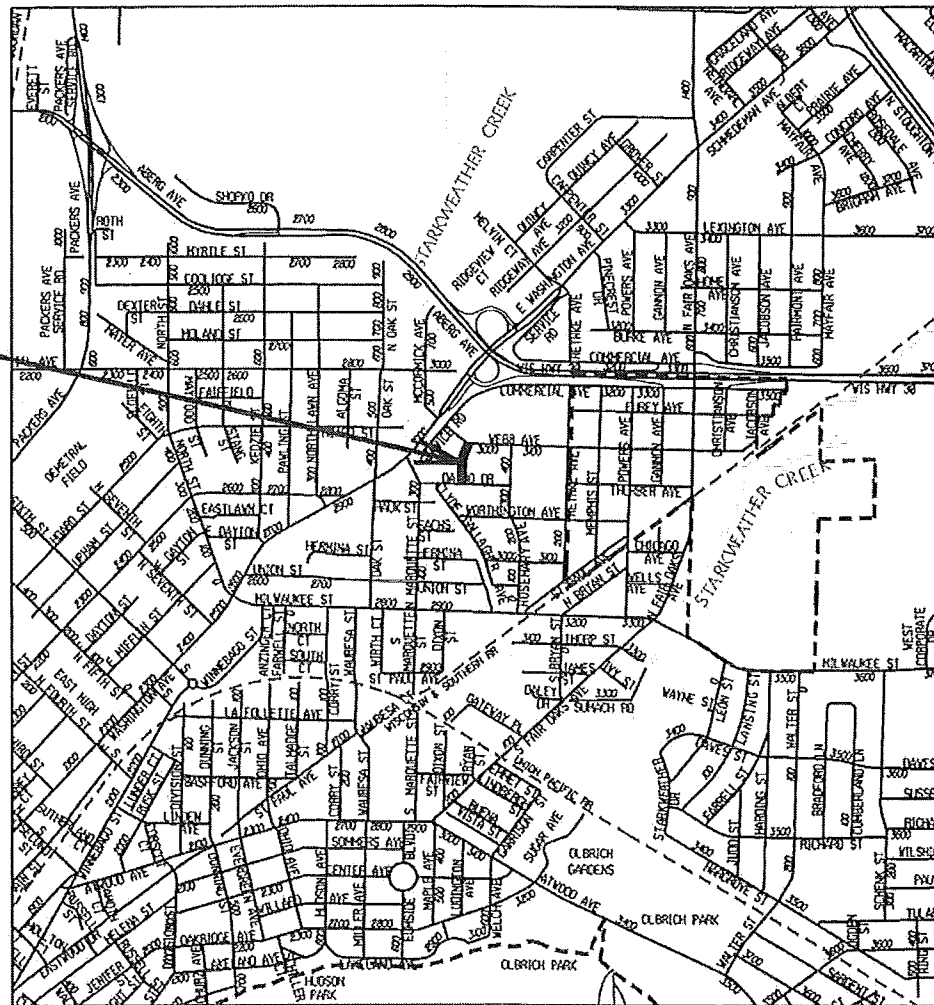
BIORETENTION DESIGNED BY:

PHILIP D. GAEBLER
E-44568
MADISON, WIS.
5/9/18
PROFESSIONAL ENGINEER

ELECTRICAL DESIGNED BY:

BRIAN J. SMITH
E-37284
MADISON WI
5-9-18
PROFESSIONAL ENGINEER

INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTIONS AND DETAILS
DI	BIORETENTION PLANS
BRI-BR2	EROSION CONTROL PLAN:
EC1	RICHARD DAVIS LANE PLAN & PROFILE
P1	WEBB AVENUE SIDEWALK PLAN & PROFILE
P2	DARBO DRIVE PLAN & PROFILE
P3	RICHARD DAVIS LANE UTILITY PLAN & PROFILES
U1	STORM BOX PLAN & PROFILES
U2	STORM SEWER SCHEDULE
U3	ELECTRICAL PLANS
E1-E2	RICHARD DAVIS LANE CROSS SECTIONS
X1-X4	WEBB AVENUE SIDEWALK CROSS SECTIONS
X5	DARBO DRIVE CROSS SECTIONS
X6	

PROJECT LOCATION



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	□

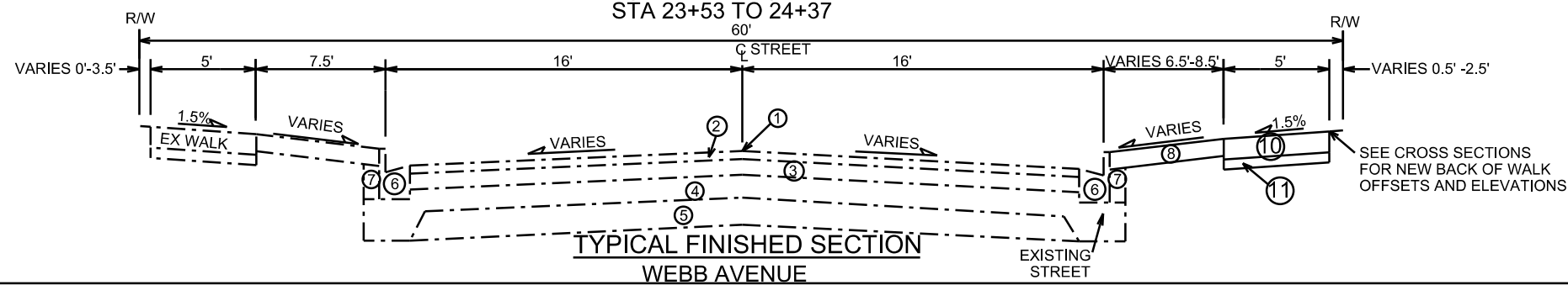
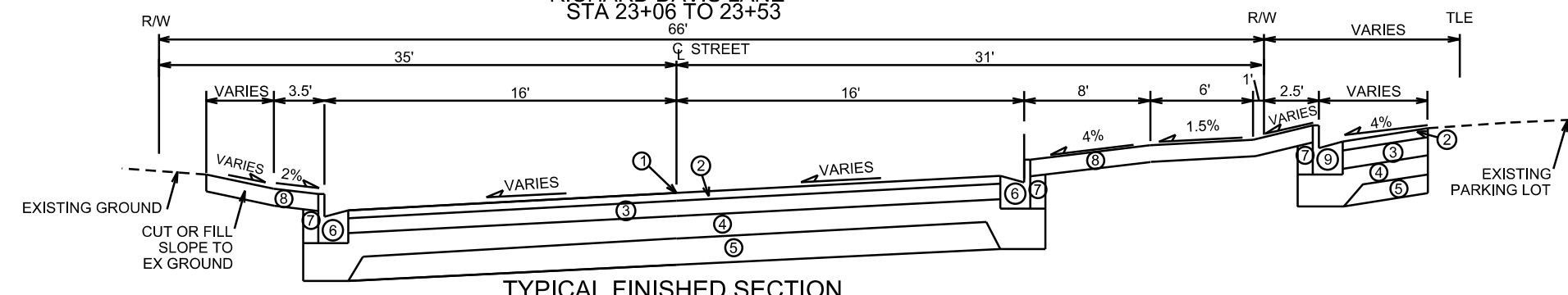
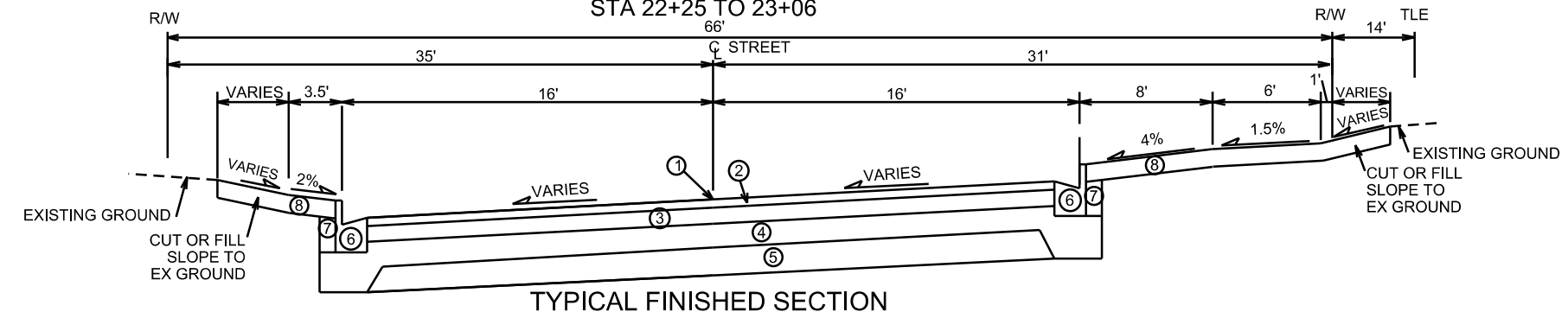
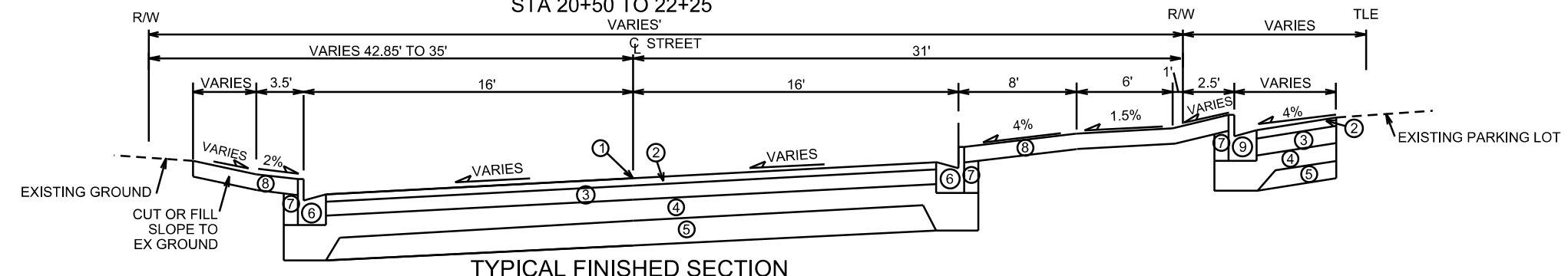
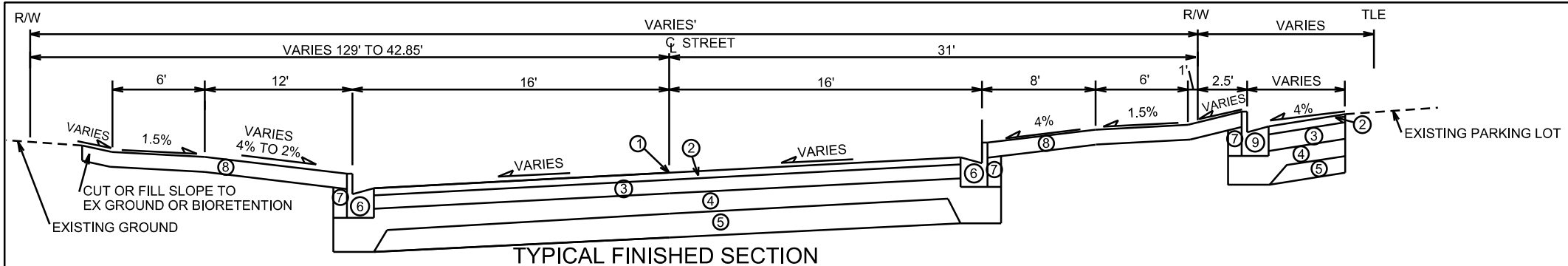
NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY).....1745 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....380 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....2125 C.Y.

PLOT SCALE: _____
REV. DATE: _____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

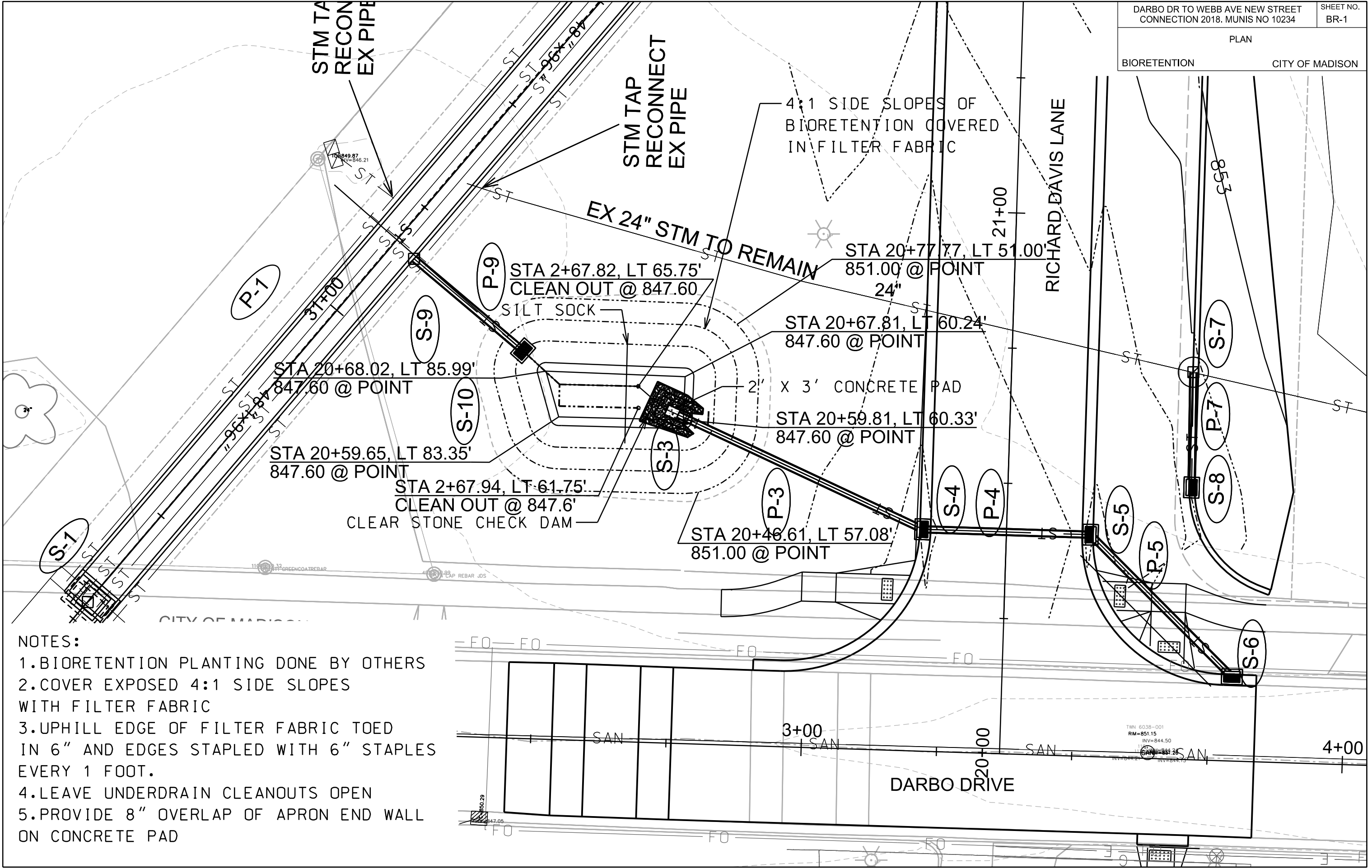


- ① POINT REFERRED TO ON PROFILE
- ② 1.75" BITUMINOUS UPPER LAYER 4 LT 58-28 S
- ③ 1.75" BITUMINOUS LOWER LAYER 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL, SEED & MAT
- ⑨ TYPE G CONCRETE CURB AND GUTTER
- ⑩ 5" CONCRETE SIDEWALK, 7" AT DRIVEWAY LOCATION
- ⑪ 2" SELECT FILL (3" GRADATION 3 WHERE SLOPE EXCEEDS 5%)

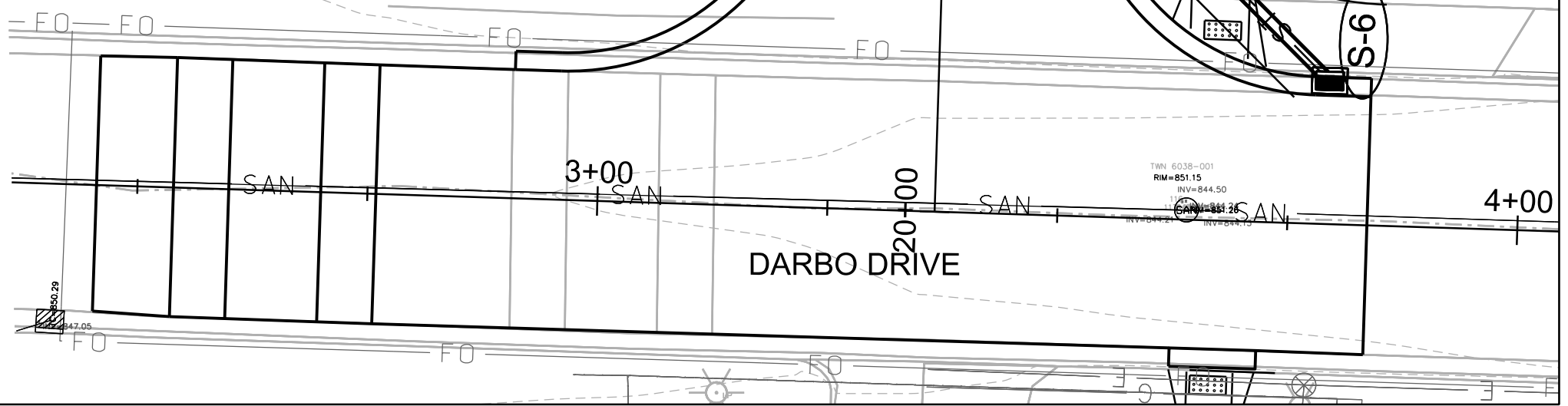
SEE CROSS SECTION SHEETS FOR CROSS SLOPES, TOP OF CURB AND BACK OF WALK ELEVATIONS.

TYPICAL SECTIONS NOT TO SCALE

PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- NOTES:
1. BIORETENTION PLANTING DONE BY OTHERS
 2. COVER EXPOSED 4:1 SIDE SLOPES WITH FILTER FABRIC
 3. UPHILL EDGE OF FILTER FABRIC TOED IN 6" AND EDGES STAPLED WITH 6" STAPLES EVERY 1 FOOT.
 4. LEAVE UNDERDRAIN CLEANOUTS OPEN
 5. PROVIDE 8" OVERLAP OF APRON END WALL ON CONCRETE PAD



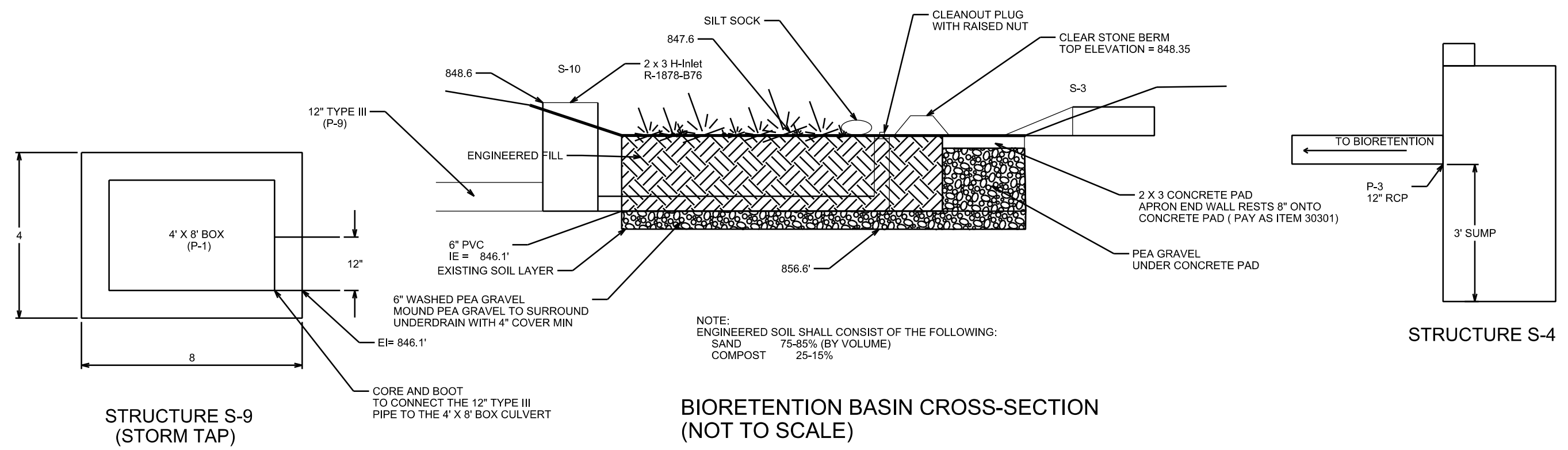
PLOT SCALE: NOT TO SCALE

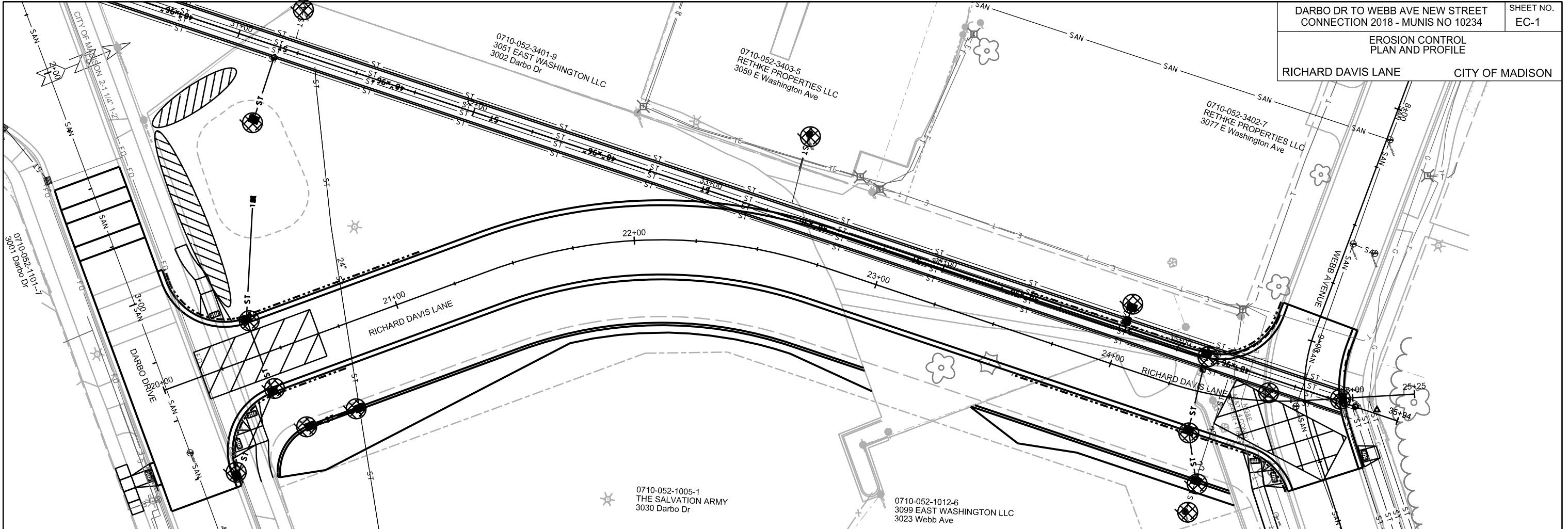
PLOT NAME: BR-1

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

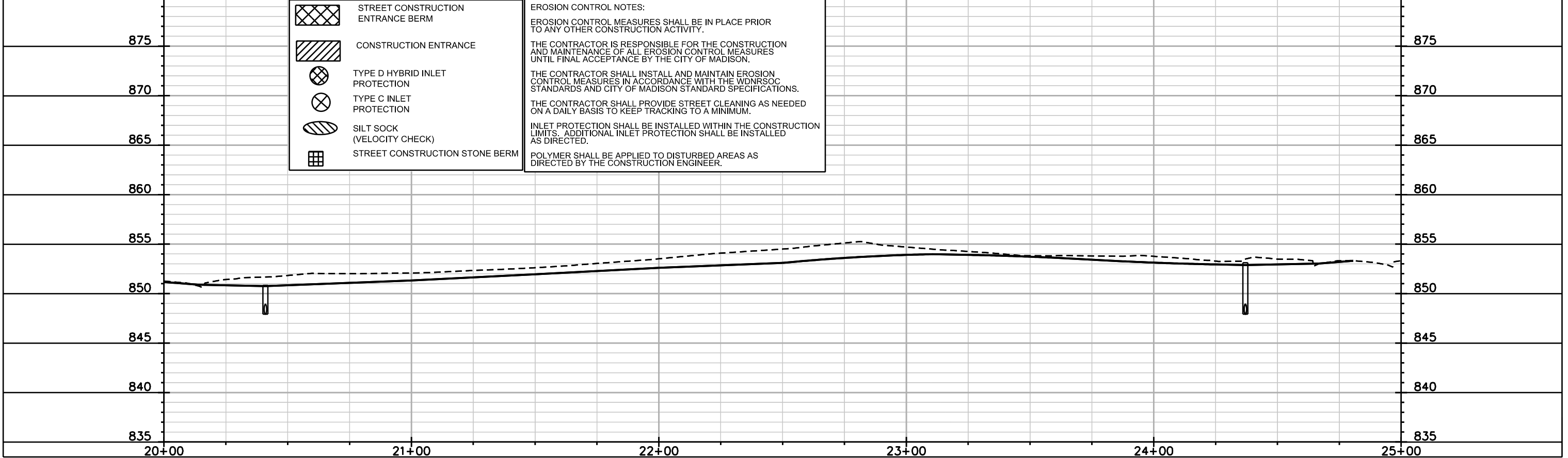
PLOT SCALE: NOT TO SCALE
 PLOT NAME: BR-2
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION





- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- SILT SOCK (VELOCITY CHECK)
- STREET CONSTRUCTION STONE BERM

EROSION CONTROL NOTES:
 EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
 THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
 THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
 INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.
 POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

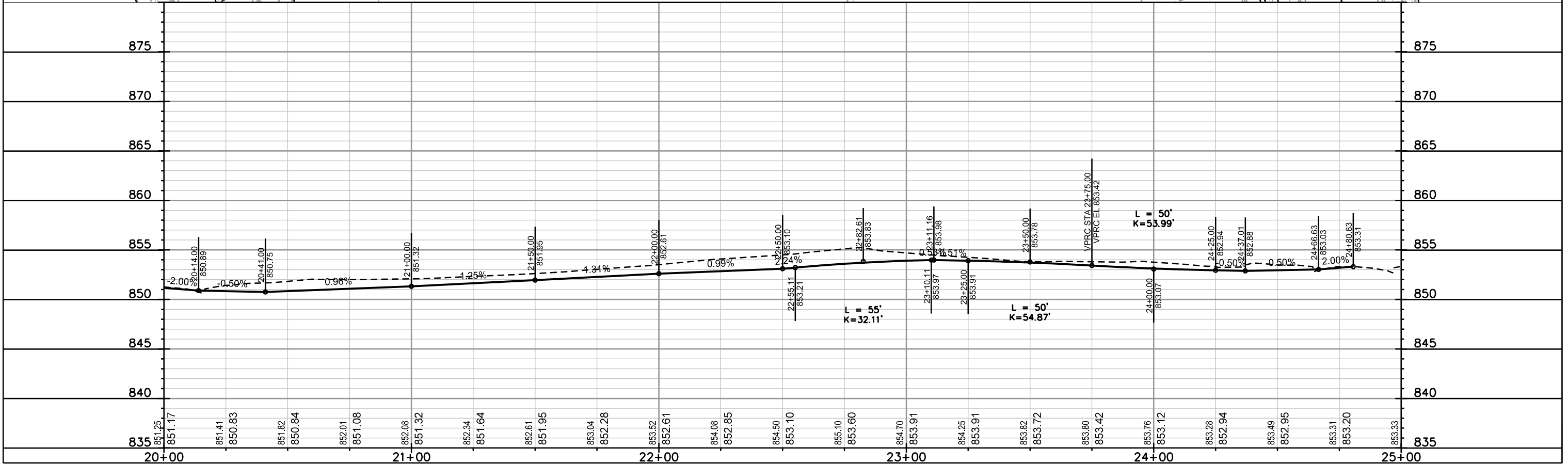
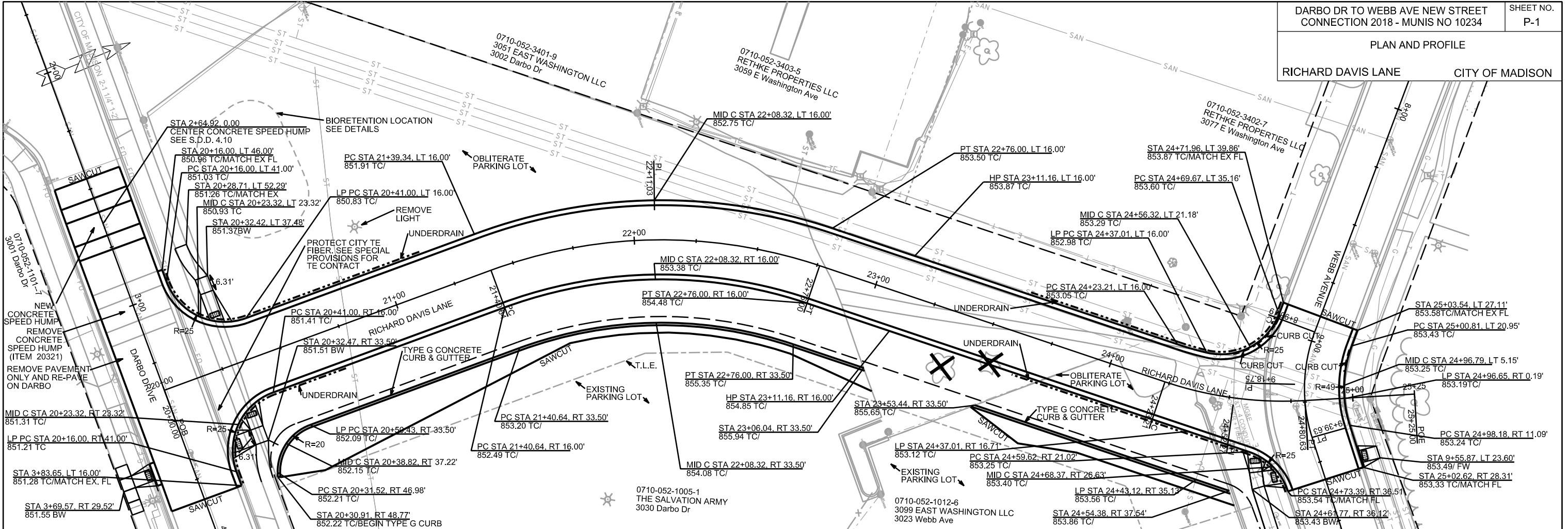


PLOT SCALE: _____

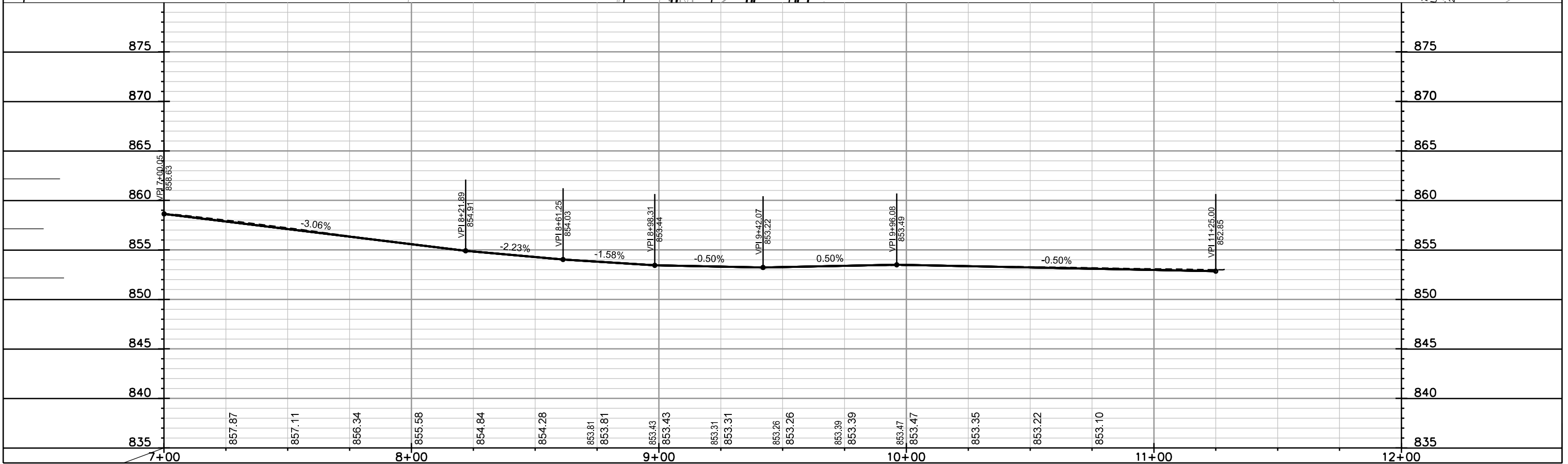
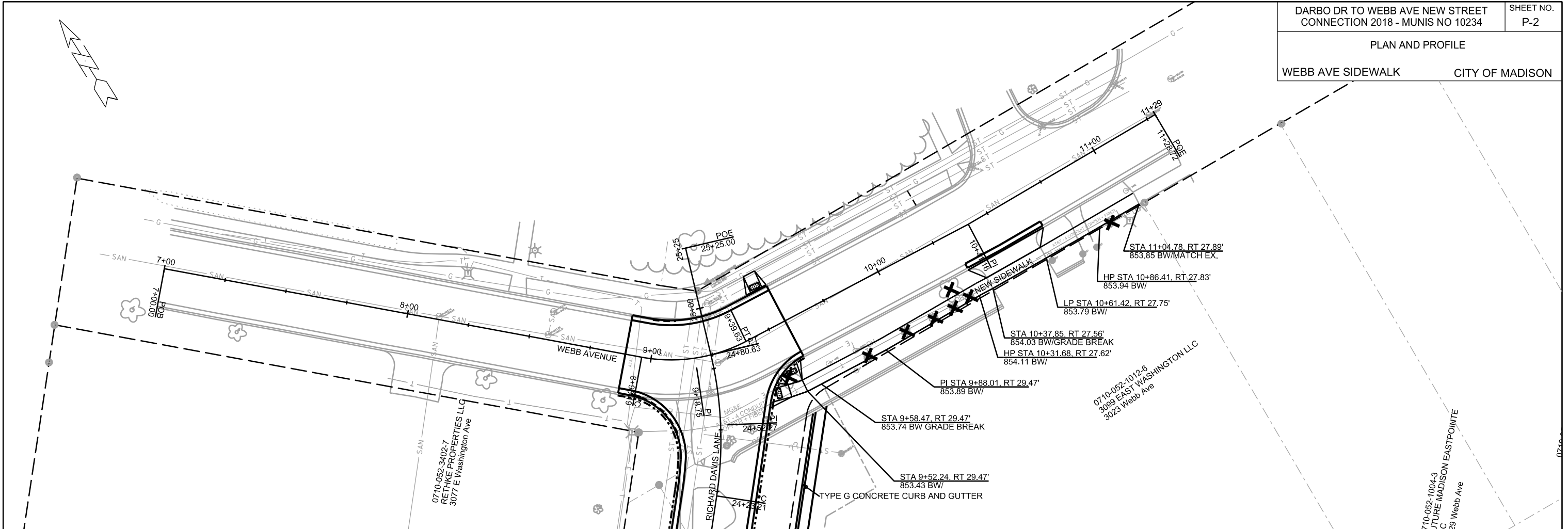
PLOT NAME: _____

REV. DATE: _____

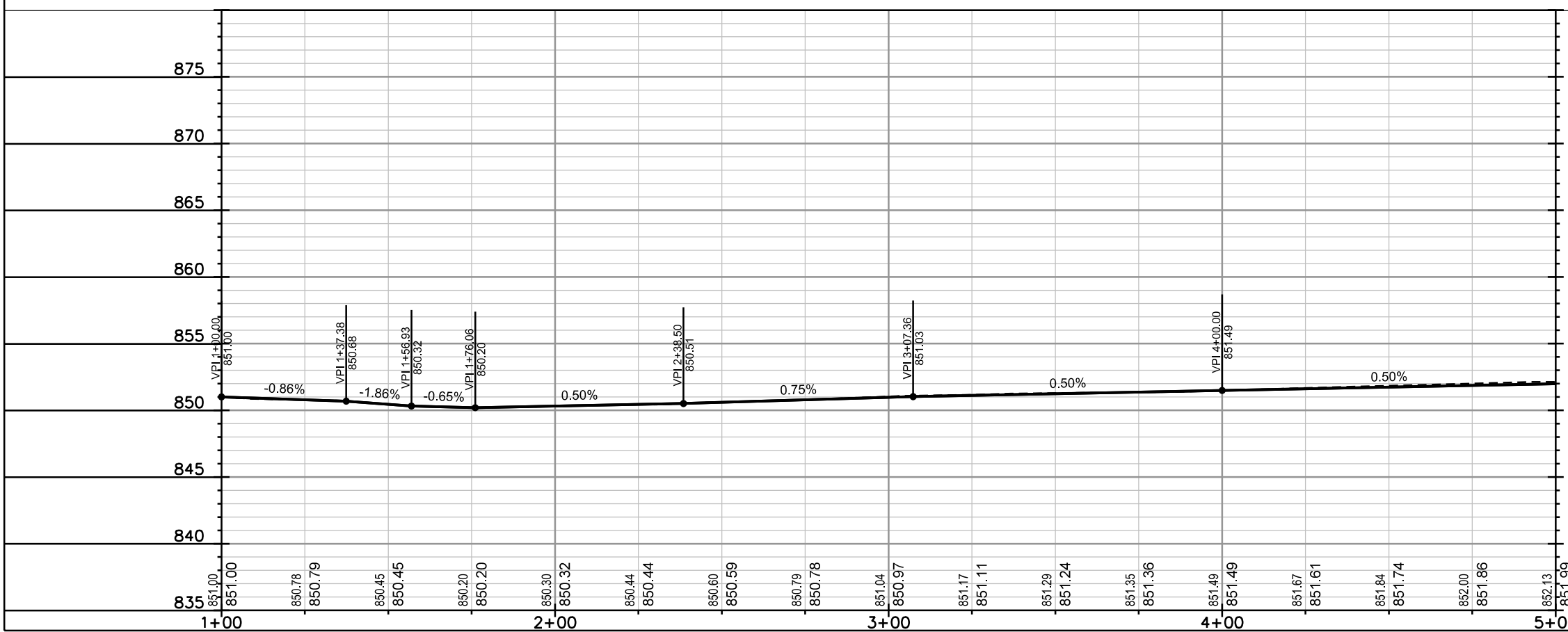
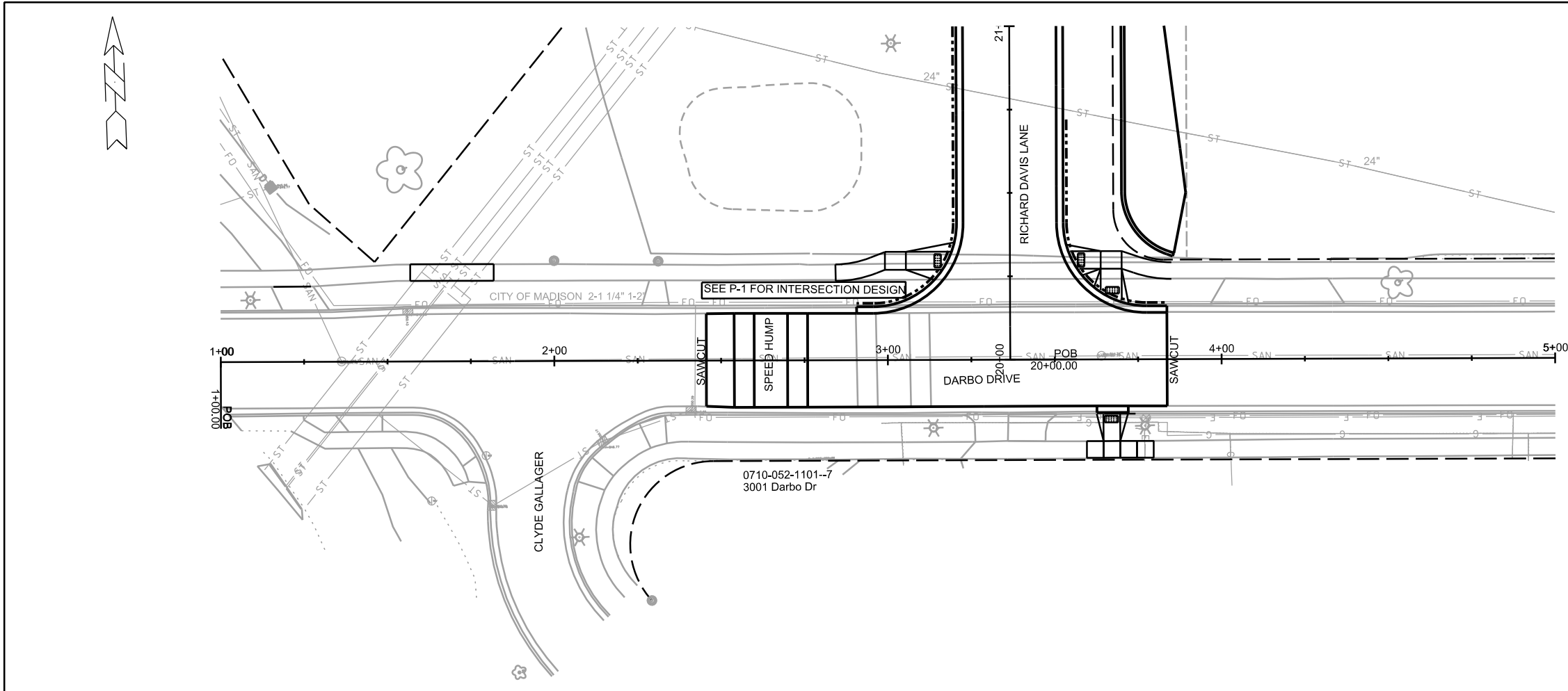
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

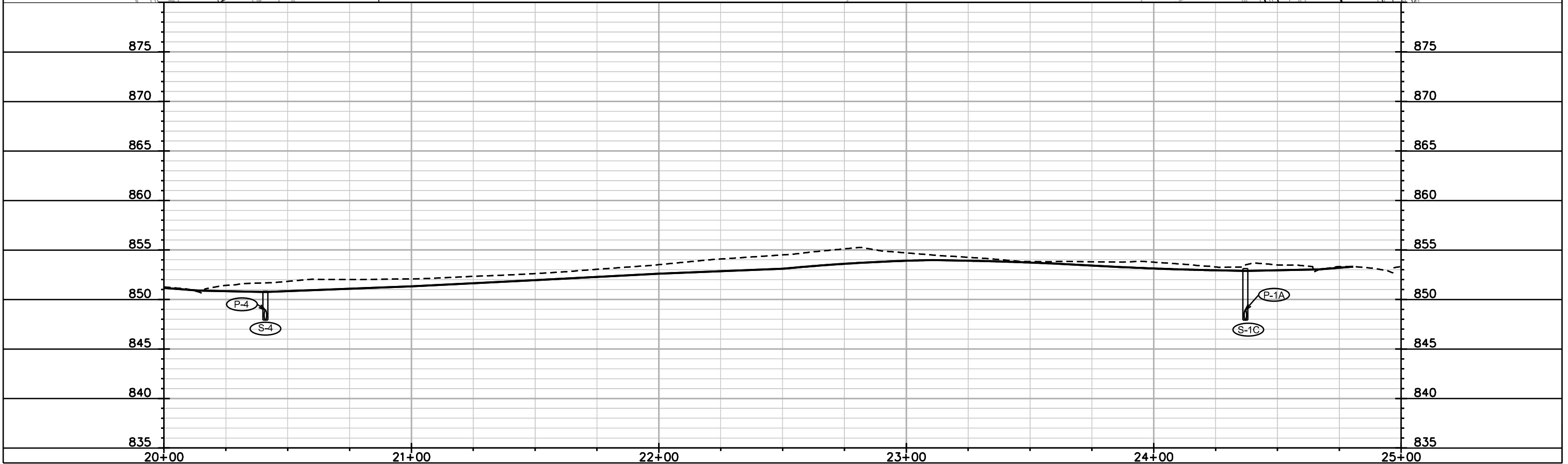
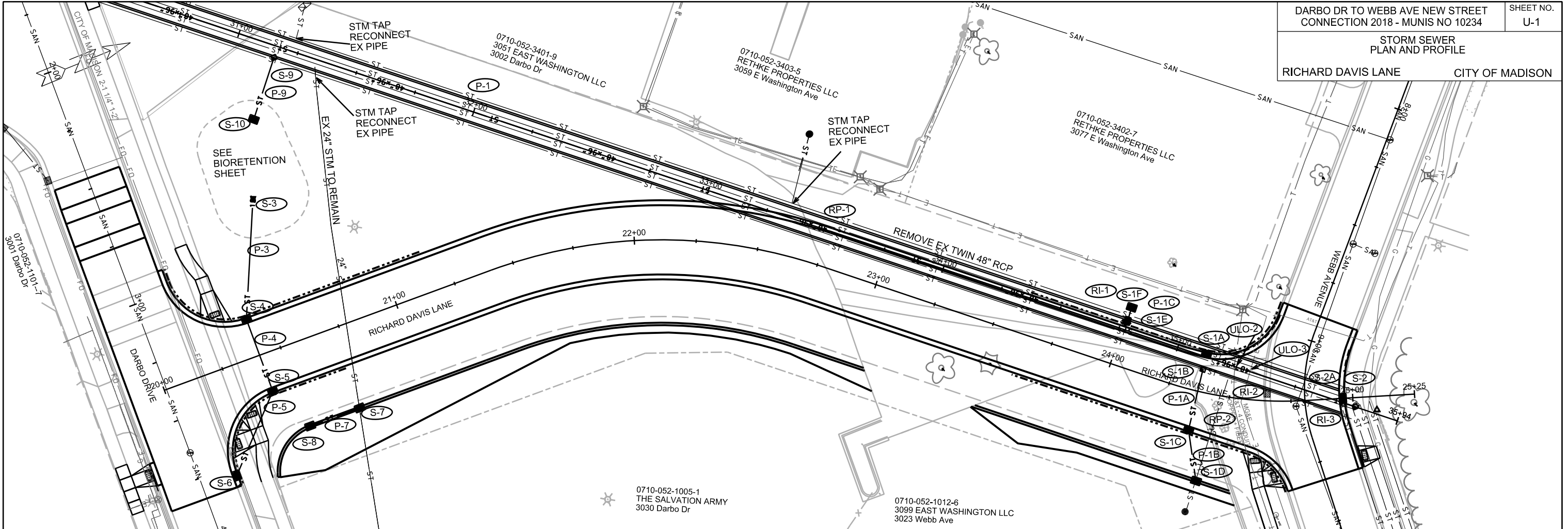


PLOT SCALE: _____

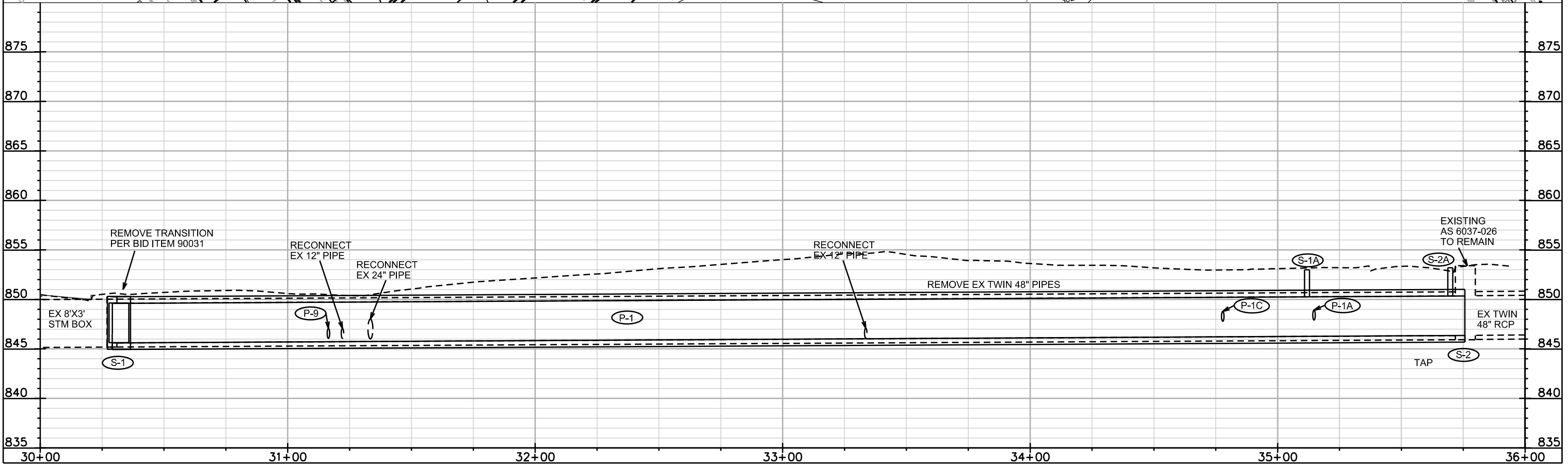
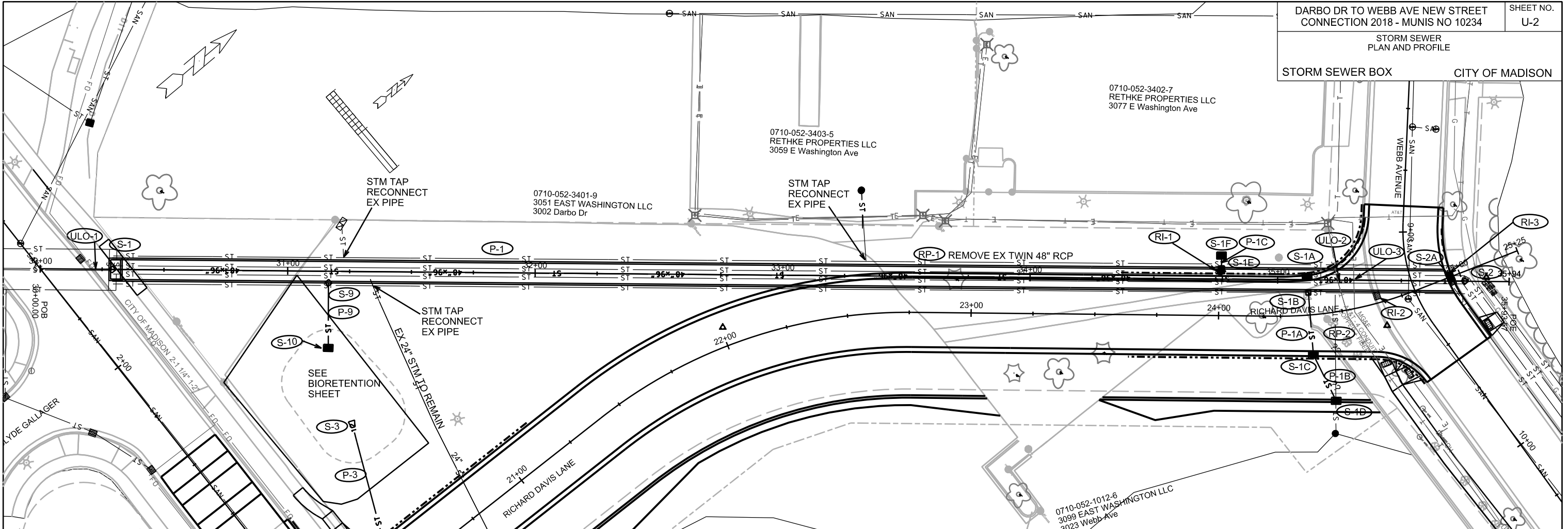
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
STORM BOX							
S-1	30+29.11	CL	4X18 STORM STRUCTURE	850.67	845.60	5.07	FP; W/ R-1550; (5)
S-2	35+75.56	CL	STORM TAP	-	846.35	-	TAP EX AS 6037-026
S-2A	24+96.65	CL	SADDLED H INLET	853.19	846.34	6.85	LP; W/ R-3067-7004-VB; (4)
S-9	31+16.50	RT-4.61	STORM TAP	-	846.10	-	(1)
S-10	31+16.65	RT-31.03	H INLET	848.60	846.10	2.50	W/ R-1878-B7G
RICHARD DAVIS LANE							
S-1A	24+37.01	LT-15.50	SADDLED H INLET	852.98	846.26	6.72	LP; W/ R-3067-7004-VB; (4)
S-1B	24+37.01	LT-10.00	STORM TAP	-	847.77	-	(1); MATCH SPRINGLINES
S-1C	24+37.00	RT-16.12	H INLET	853.12	847.91	5.21	LP; W/ R-3067-7004-VB
S-1D	24+43.20	RT-35.62	H INLET	853.56	849.76	3.80	LP; W/ R-3067-7004-VB
S-1E	24+00.90	LT-19.05	STORM TAP	-	847.77	-	(1); MATCH SPRINGLINES
S-1F	24+00.90	LT-24.27	H INLET	-	-	0.00	W/ R-1878-B7G
S-3	20+60.75	LT-61.34	12" RCP APRON END	-	847.60	-	W/ GATE
S-4	20+41.00	LT-15.50	H INLET	850.83	847.91	2.92	LP; W/ R-3067-7004-VB; (3)
S-5	20+41.00	RT-15.50	H INLET	851.41	848.01	3.40	W/ R-3067-7004-V
S-6	20+16.00	RT-40.50	H INLET	851.21	848.18	3.03	LP; W/ R-3067-7004-VB; (3)
S-7	20+71.61	RT-33.50	H INLET	852.34	847.52	4.82	W/ R-3067-7004-V
S-8	20+50.31	RT-33.91	H INLET	852.09	847.64	4.45	LP; W/ R-3067-7004-VB; (3)

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RI-1	-	34+77.41	LT-3.00	H INLET	-
RI-2	IN 6037-044	35+40.20	RT-6.30	SADDLED H INLET	
RI-3	IN 6037-027	35+71.54	CL	SADDLED H INLET	

ULO SCHEDULE

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1	30+22.00	CL	FO	BY OTHERS
ULO-2	35+24.60	CL	AT&T	BY OTHERS
ULO-3	35+31.00	CL	MG&E ELEC	BY OTHERS

TWO ULO'S SHALL BE UNDISTRIBUTED WITH THIS CONTRACT

NOTES

- (1) CORE AND BOOT SEAL TO 4X8 BOX
- (2) MATCH SPRINGLINES
- (3) W/ 3 FT SUMP
- (4) EI LISTED IS BOTTOM OF BOX
- (5) ROOF REINFORCEMENT SHALL BE #8 BARS 4" ON CENTER IN THE LONG DIMENSION WITH #6 BARS 6" ON CENTER IN THE SHORT DIMENSION, WITH DIAGONAL (45 DEGREE) BARS AROUND THE CUT OUT FOR THE CASTING. LONG BARS CENTERED 3" ABOVE THE BOTTOM OF THE ROOF WITH CROSSIG BARS TIED ABOVE.

STORM SEWER SCHEDULE

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-2	845.60	846.35	546	546	0.14%	8'X4'	BOX	-
P-1A	S-1B	S-1C	847.77	847.91	25	24	0.58%	12"	TYPE 1	-
P-1B	S-1C	S-1D	847.91	849.76	20	18	10.28%	12"	TYPE 2	-
P-1C	S-1E	S-1F	847.77	847.80	5	4	0.75%	12"	TYPE 2	-
P-3	S-3	S-4	847.60	847.86	50	49	0.53%	12"	TYPE 2	-
P-4	S-4	S-5	847.86	848.01	31	29	0.52%	12"	TYPE 1	-
P-5	S-5	S-6	848.01	848.18	37	34	0.50%	12"	TYPE 2	-
P-7	S-7	S-8	847.52	847.64	21	19	0.63%	12"	TYPE 2	-
P-9	S-9	S-10	846.10	846.10	26	25	0.00%	12"	TYPE 3	-

REMOVE STORM PIPE

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	S-1	S-2	564 X 2	TWIN 48"	RCP	N	-
RP-2	S-1D	BOX	43	12"	RCP	Y	-

NOTE:

PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

STANDARD NOTES:

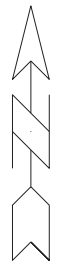
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

GENERAL ELECTRICAL NOTES:

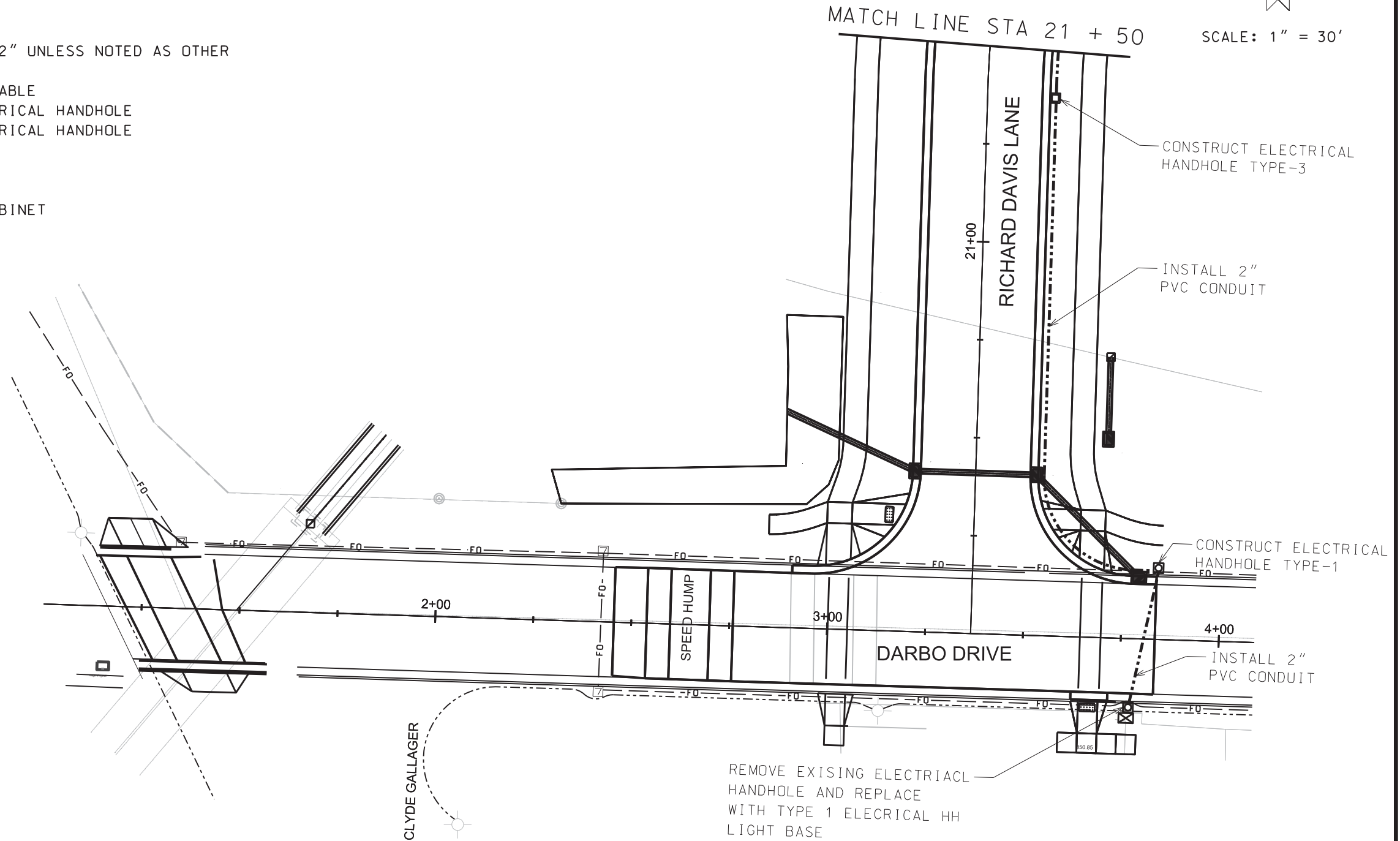
1. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2018 EDITION AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL CALL TROY VANT (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF PLACING HANDHOLES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION.
3. ALL EXISTING CONDUITS ARE TO REMAIN UNLESS AND UNTIL AUTHORIZED TO REMOVE BY TRAFFIC ENGINEERING.

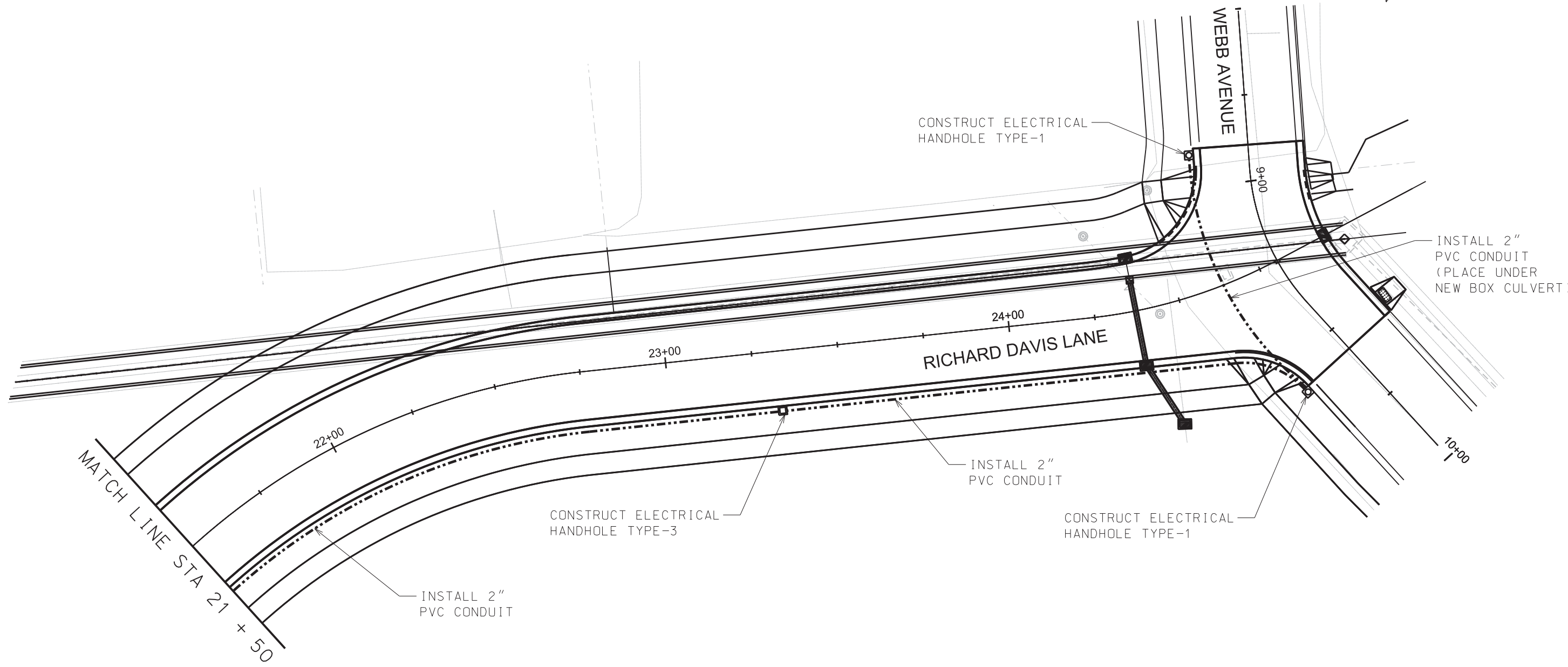
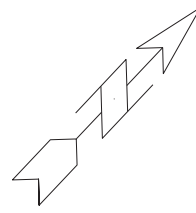
LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- FO- EXISTING CONDUIT WITH FIBER OPTIC CABLE
- ☐ INSTALL CITY FURNISHED TYPE-1 ELECTRICAL HANDHOLE
- ▣ INSTALL CITY FURNISHED TYPE-3 ELECTRICAL HANDHOLE
- ⊙ EXISTING STREET LIGHT POLE/BASE
- ◻ EXISTING TYPE-3 ELECTRICAL HANDHOLE
- ▤ EXISTING TYPE-7 ELECTRICAL HANDHOLE
- ⊠ EXISTING STREET LIGHT CONTROLLER CABINET



SCALE: 1" = 30'





CROSS SECTIONS

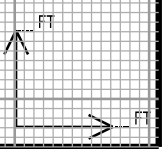
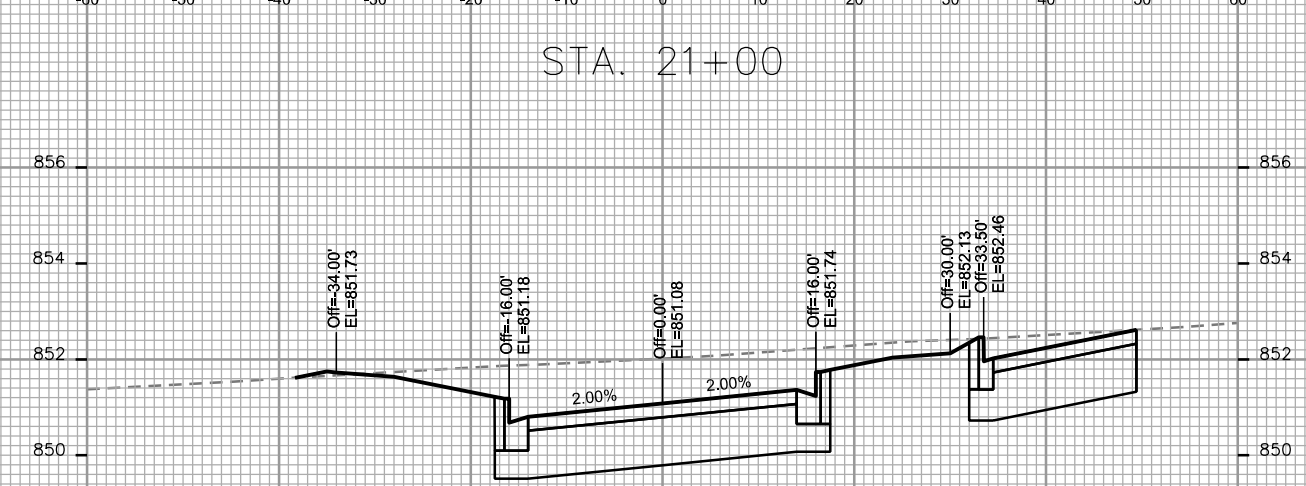
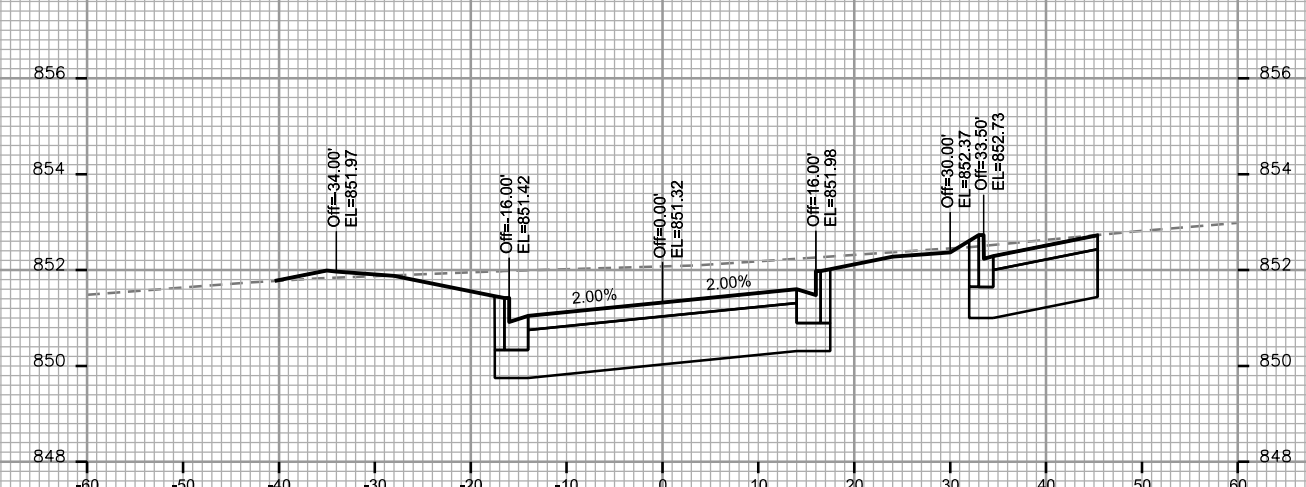
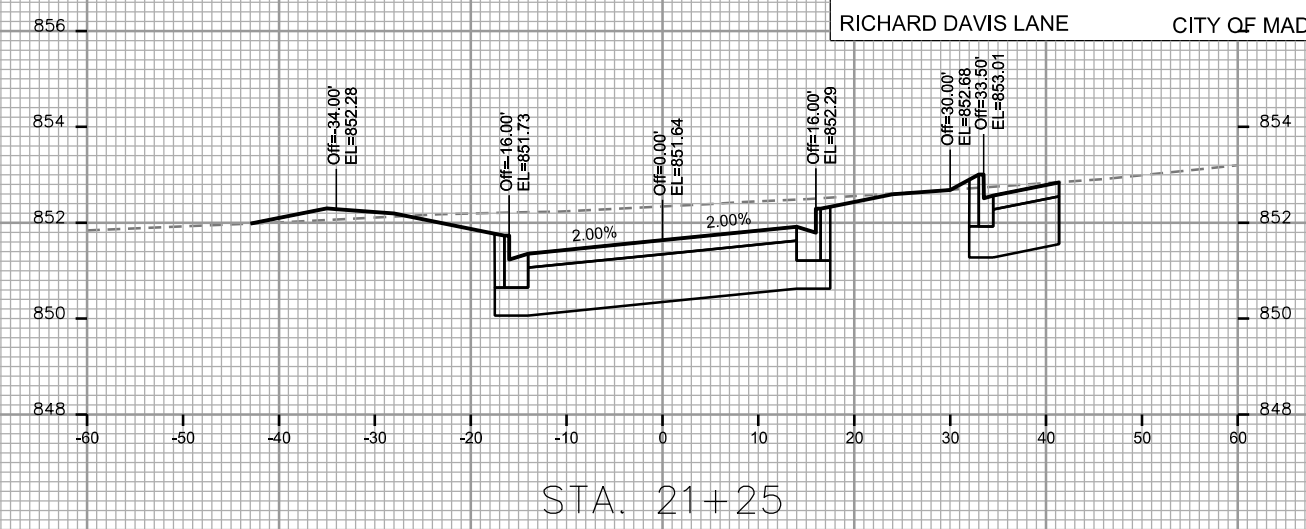
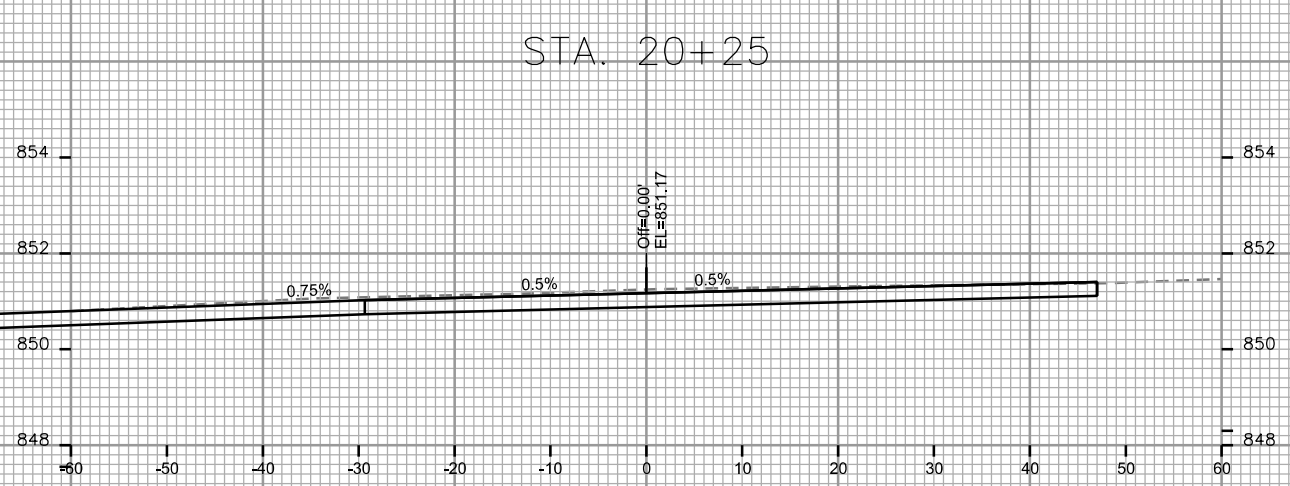
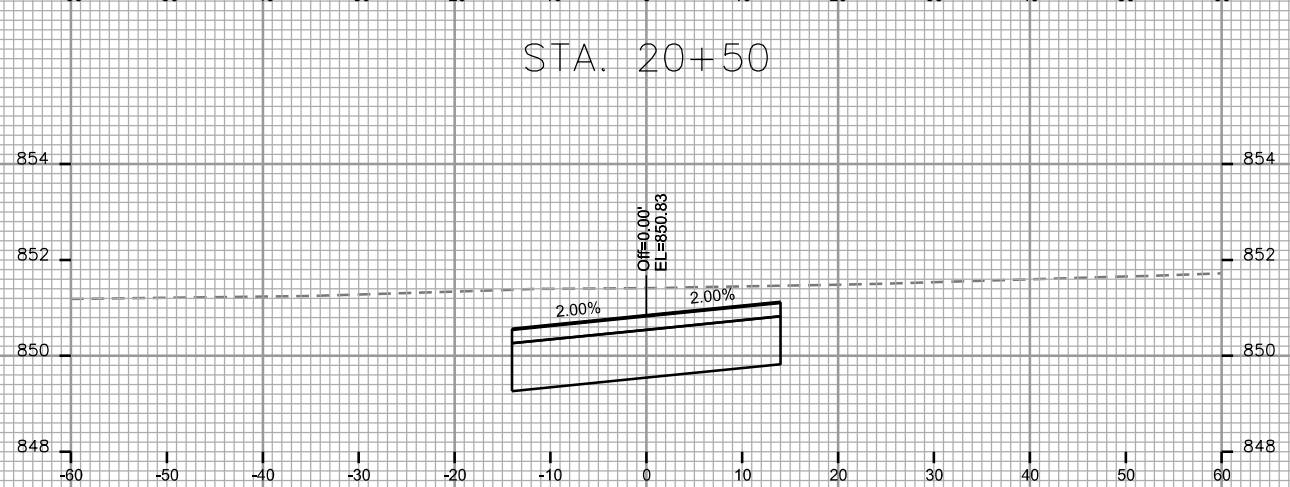
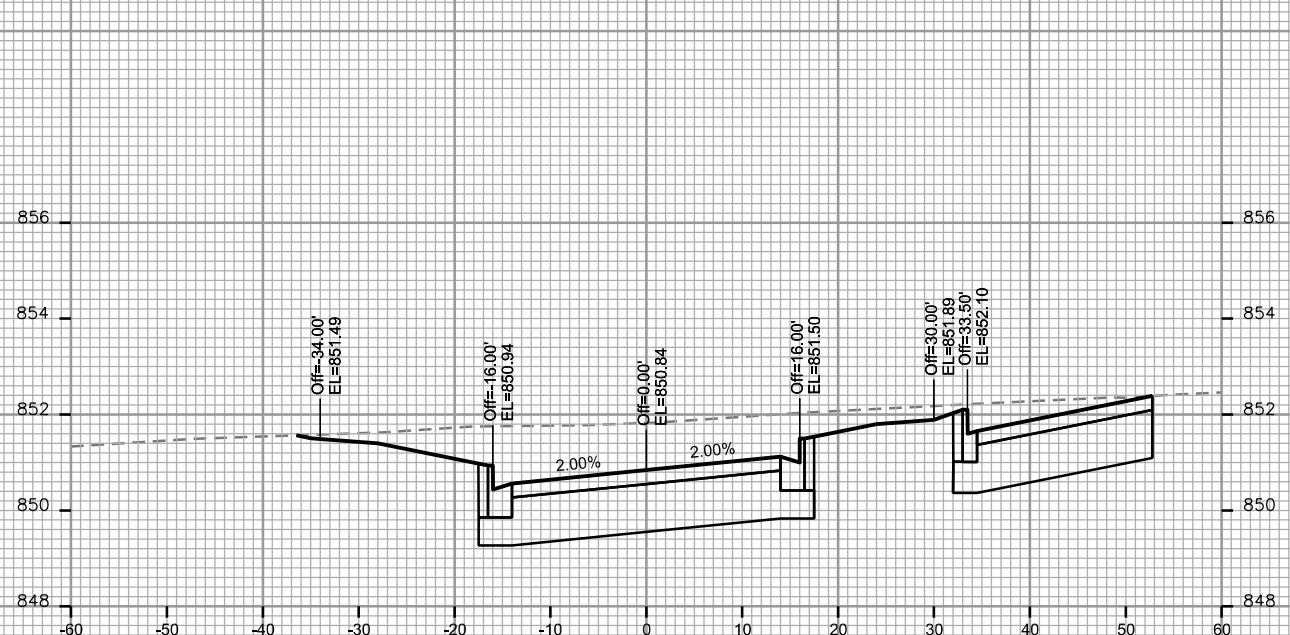
RICHARD DAVIS LANE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

RICHARD DAVIS LANE

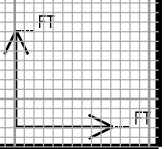
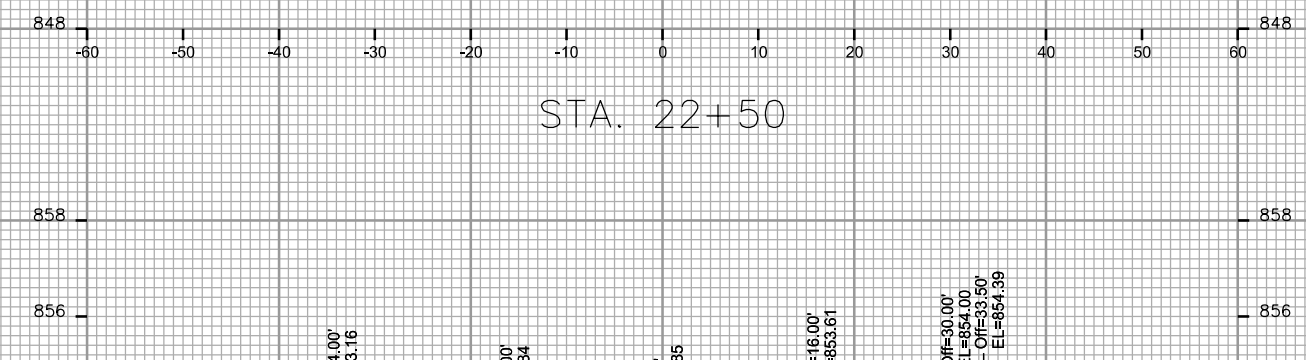
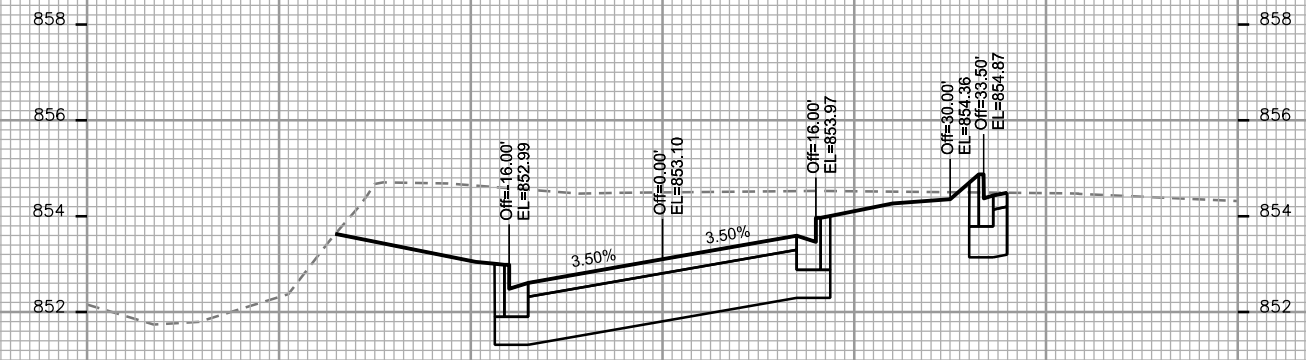
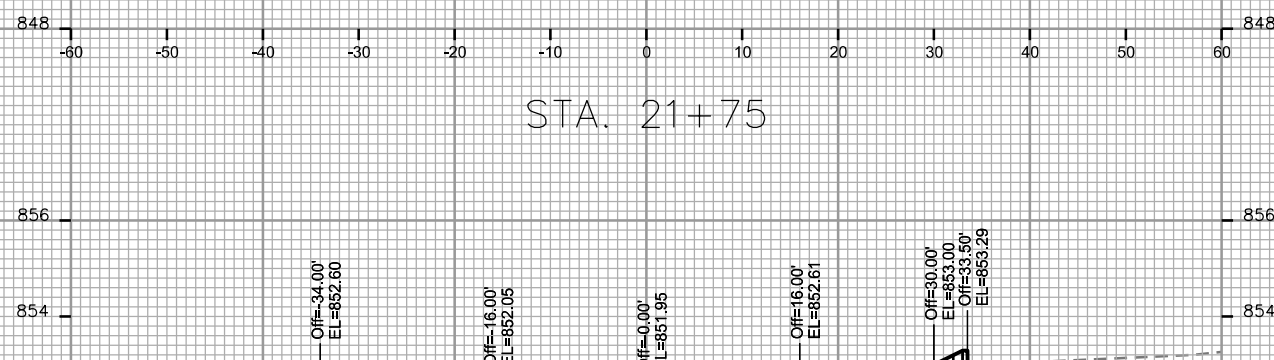
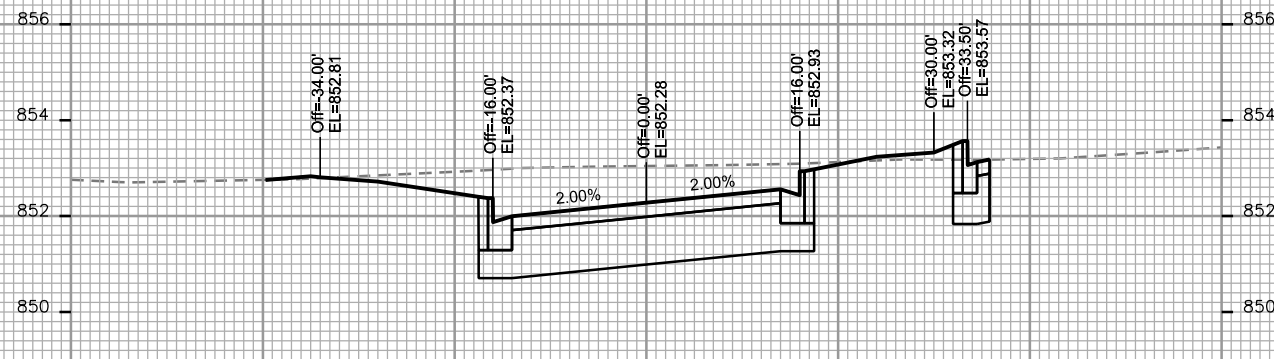
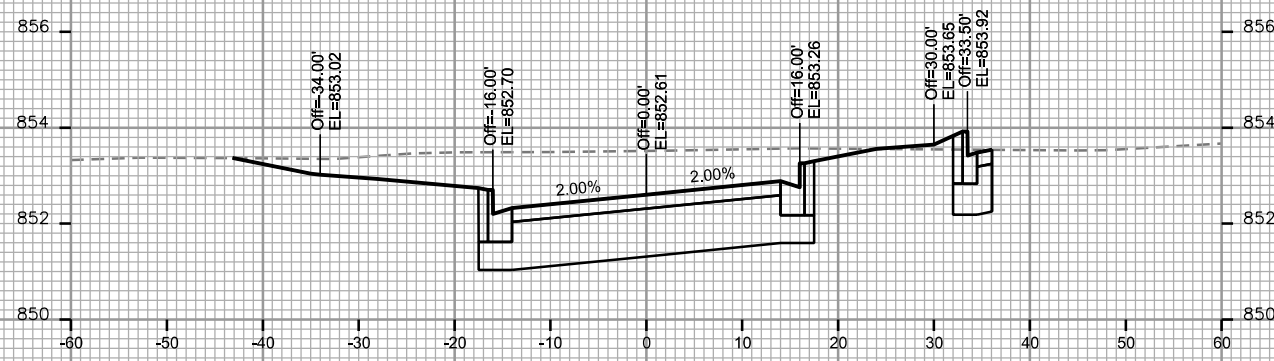
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

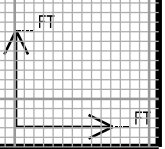
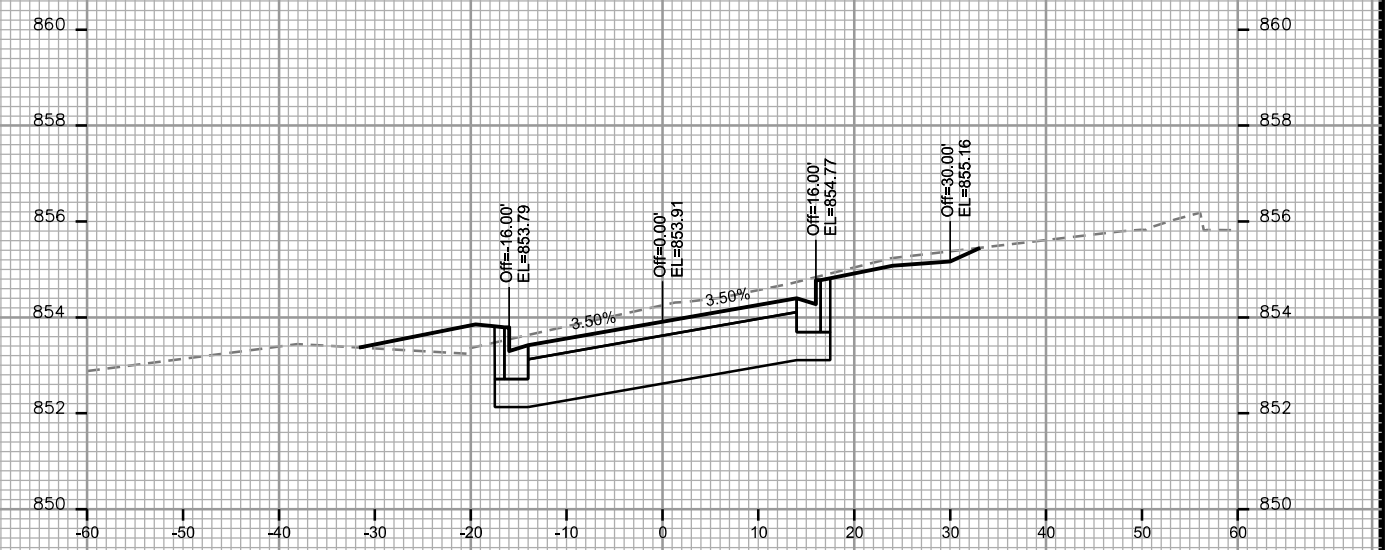
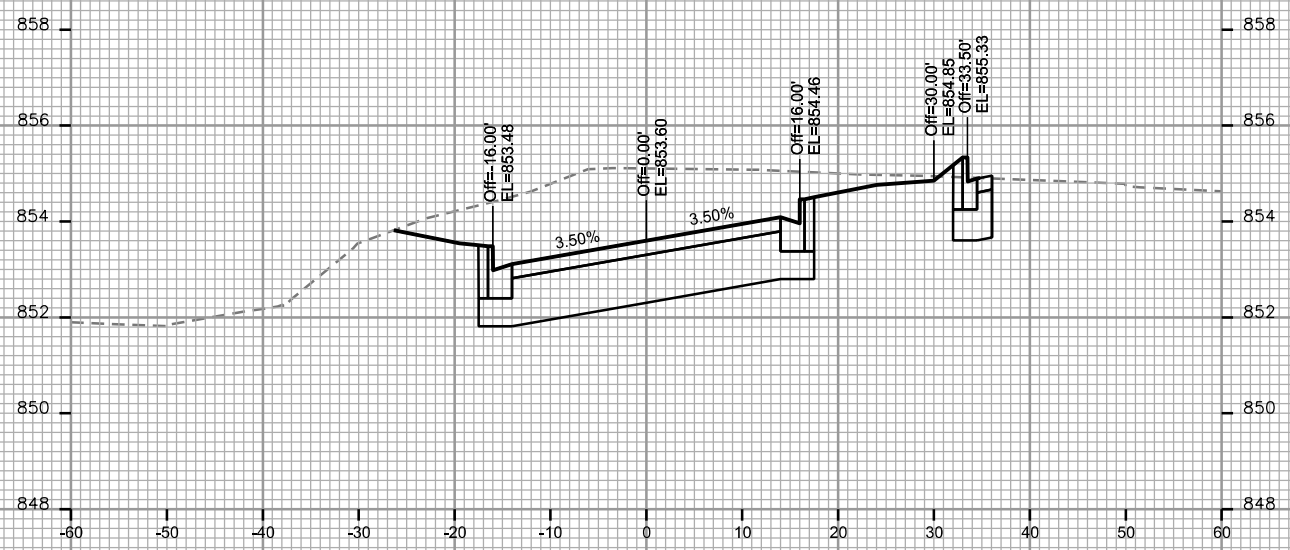
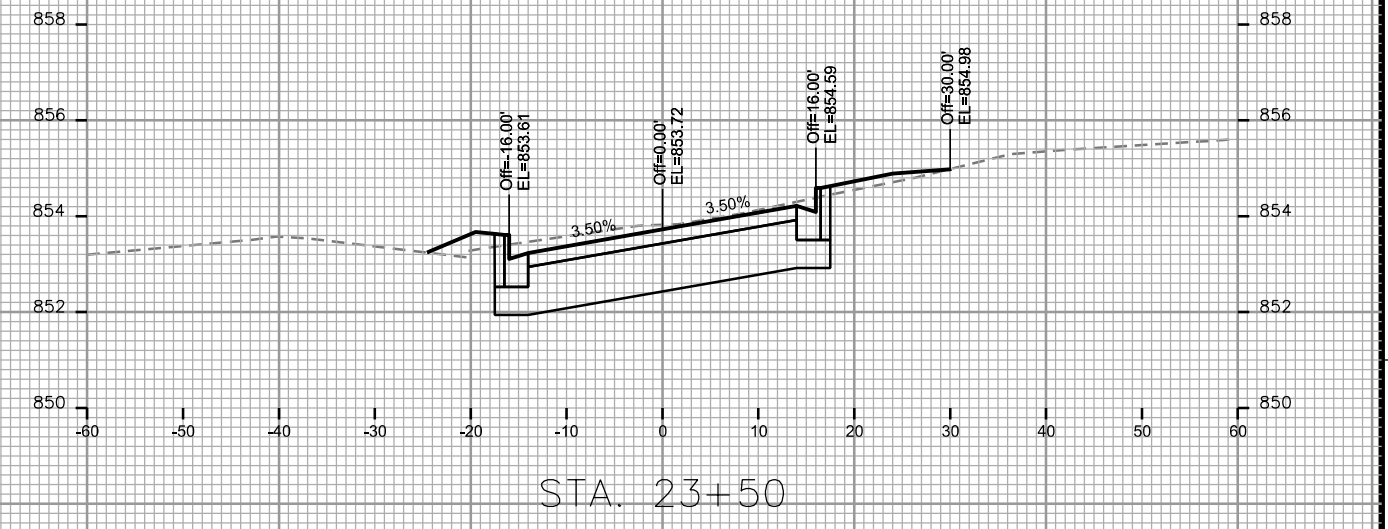
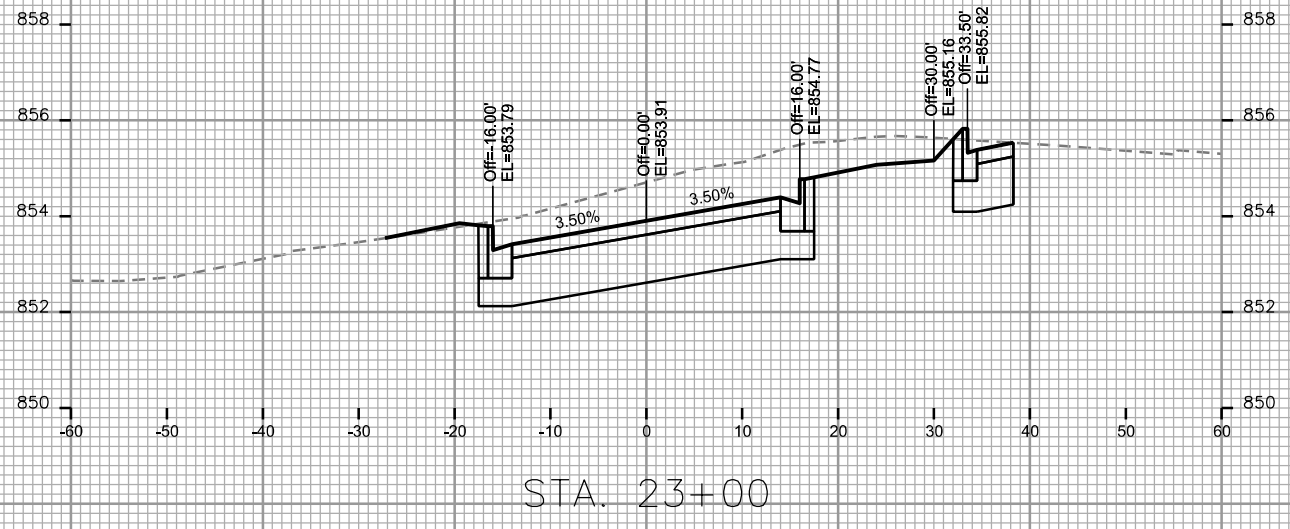
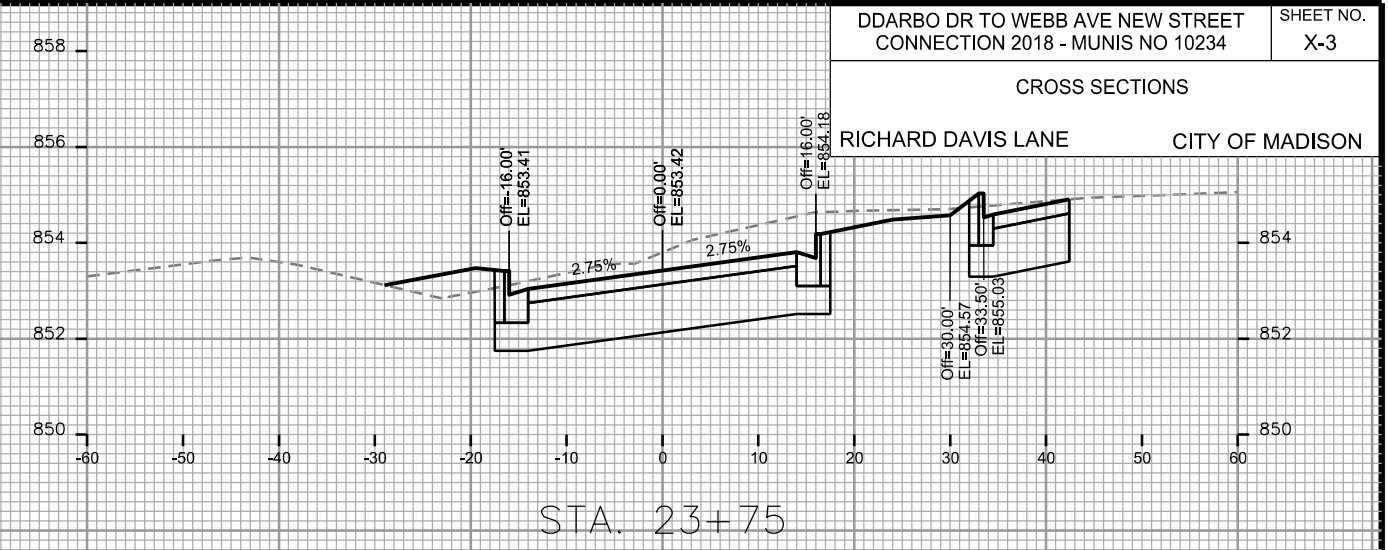
REV. DATE: _____

ORIGINATOR: CITY OF MADISON STREETS DIVISION



CROSS SECTIONS

RICHARD DAVIS LANE CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

RICHARD DAVIS LANE

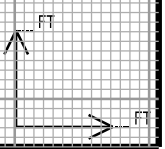
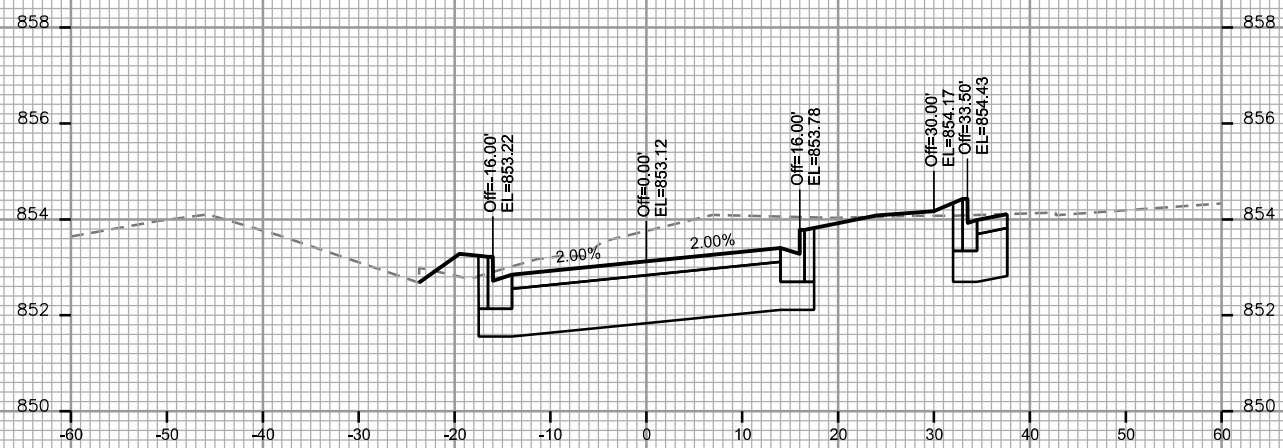
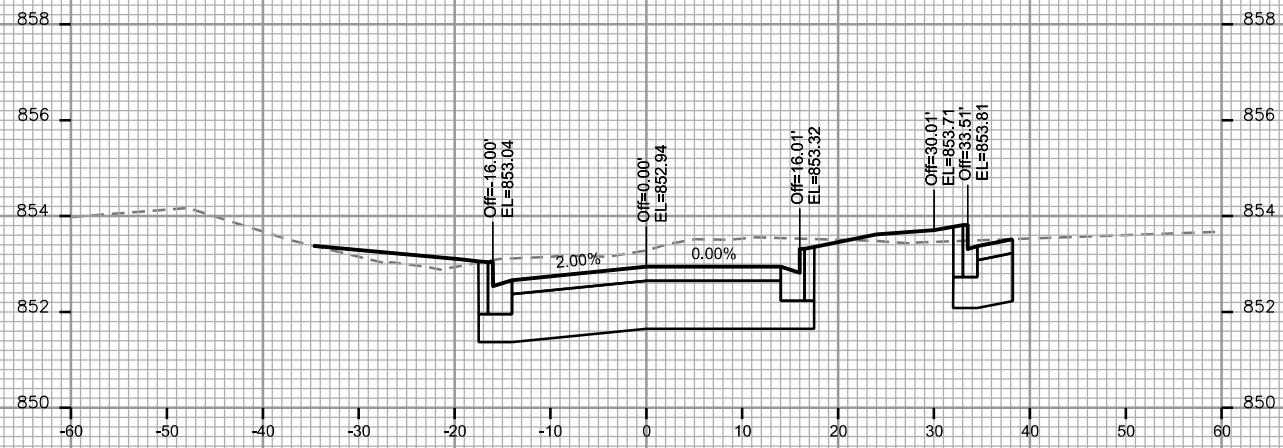
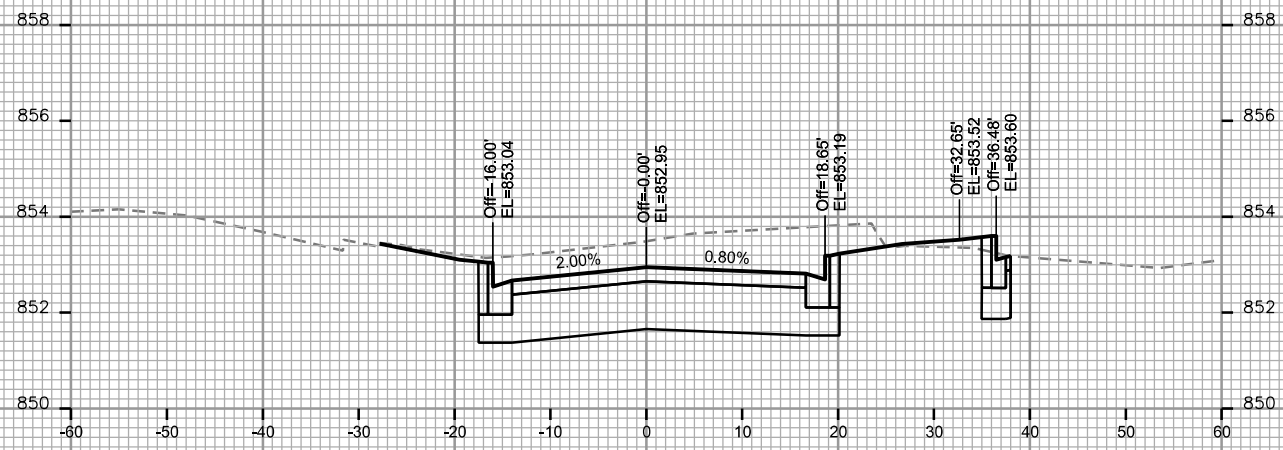
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

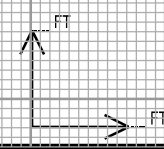
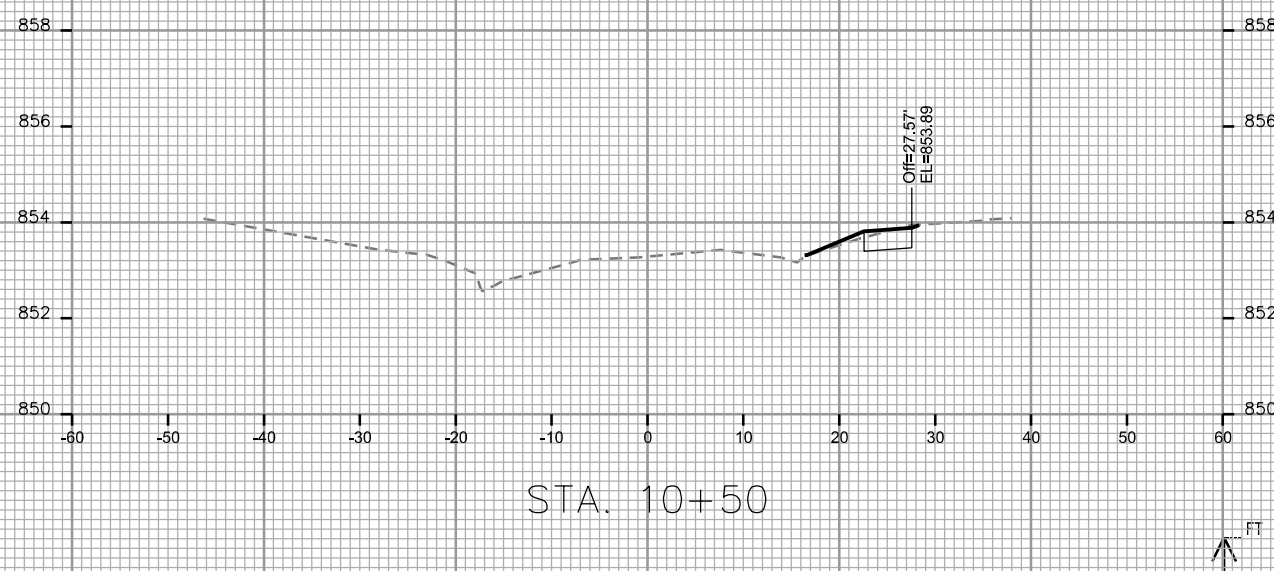
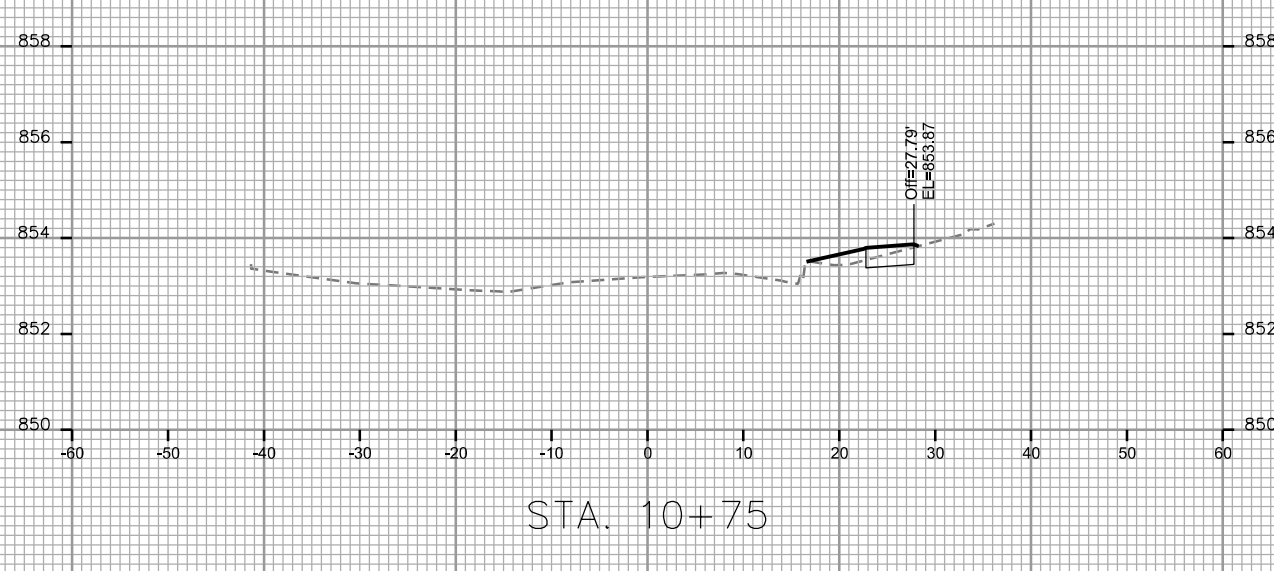
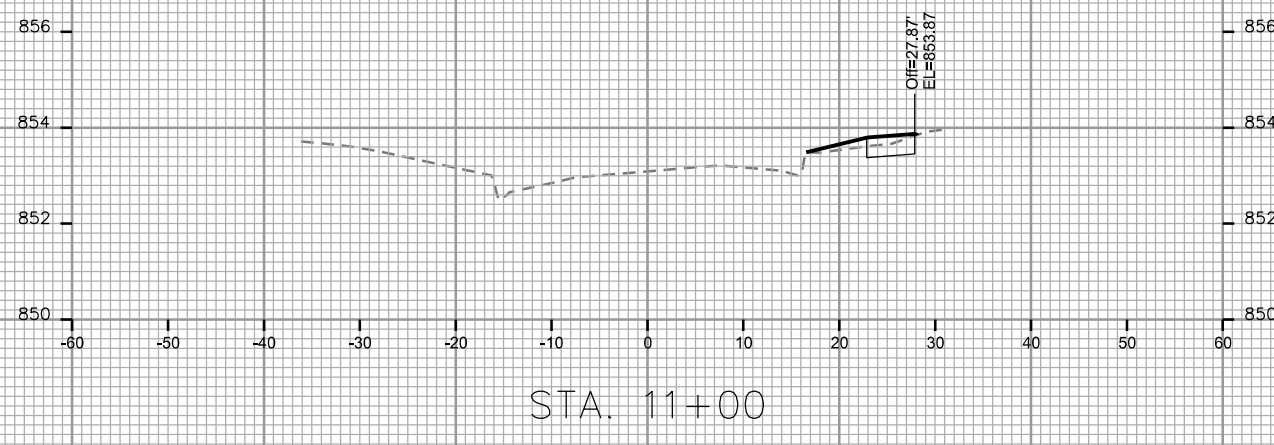
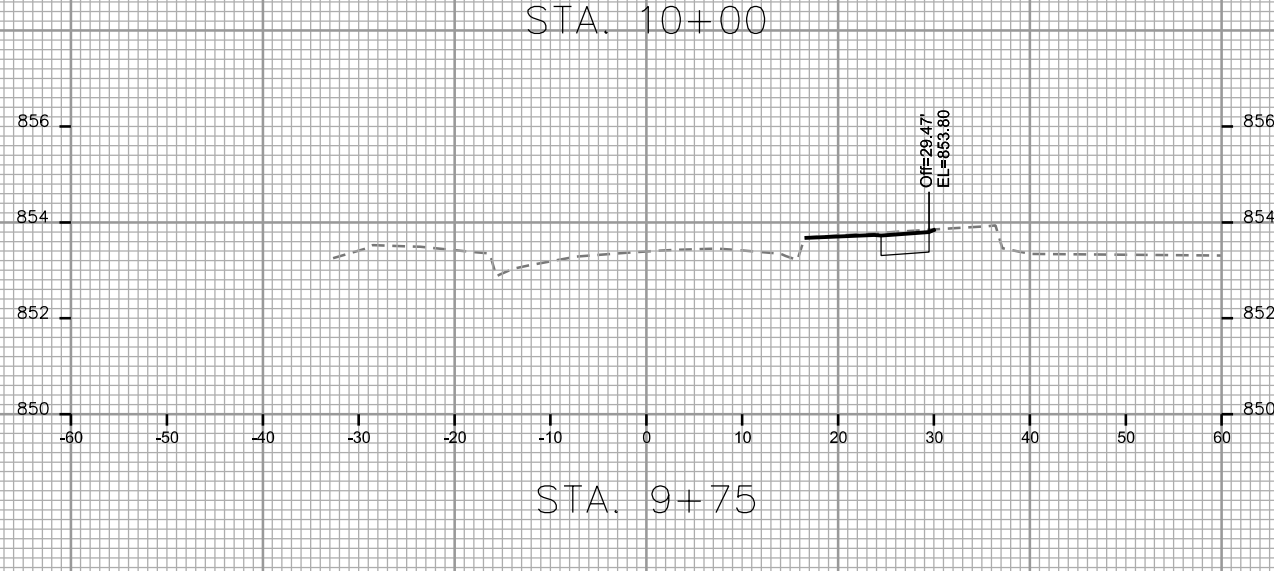
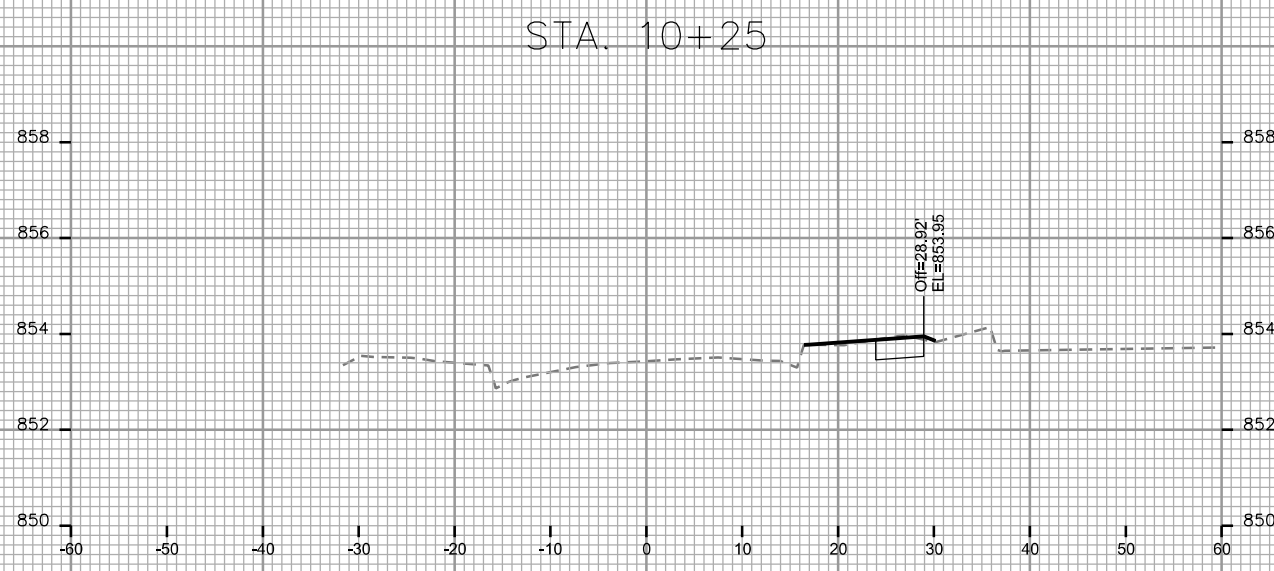
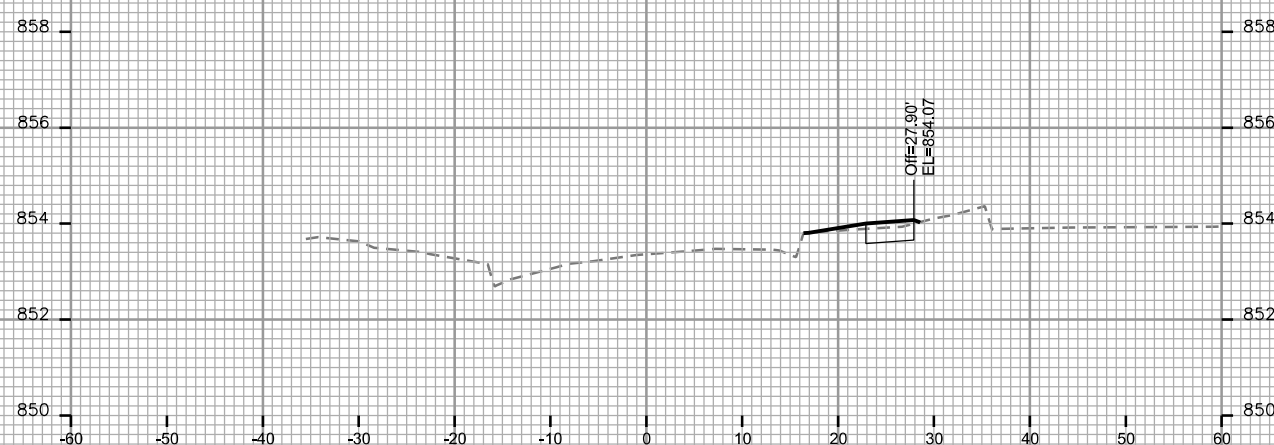
WEBB AVE SIDEWALK CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

DARBO DRIVE

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

