

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 10, 2018

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

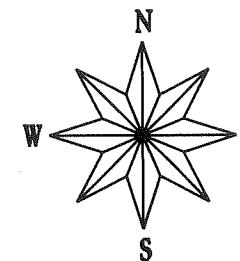
[Signature] 4/23/18
City Engineer Date

INDEX OF SHEETS

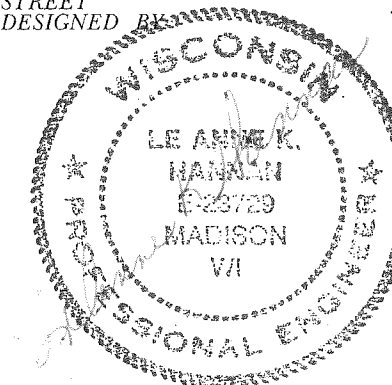
SHEET NO.	TITLE
1	DETAILS
DI-D3	EROSION CONTROL PLANS--
EC1-EC12	STREET PLAN & PROFILES
PI-P13	UTILITY PLAN & PROFILES
U1-U12	SEWER SCHEDULES
U13-U16	WATER PLAN & PROFILES
W1-W10	WATER SYSTEM IMPACT PLAN
W11-W12	WATER WATER PLAN OVERVIEW
W143-W14	WATER ESTIMATE OF MATERIALS
W15	CROSS SECTIONS
XI-X28	

DAVIDSON ST, HEGG AVE, MAJOR AVE,
DREXEL AVE & LAKE EDGE BLVD
ASSESSMENT DISTRICT-2018

CITY PROJECT NO. 11655
CITY CONTRACT NO. 8109



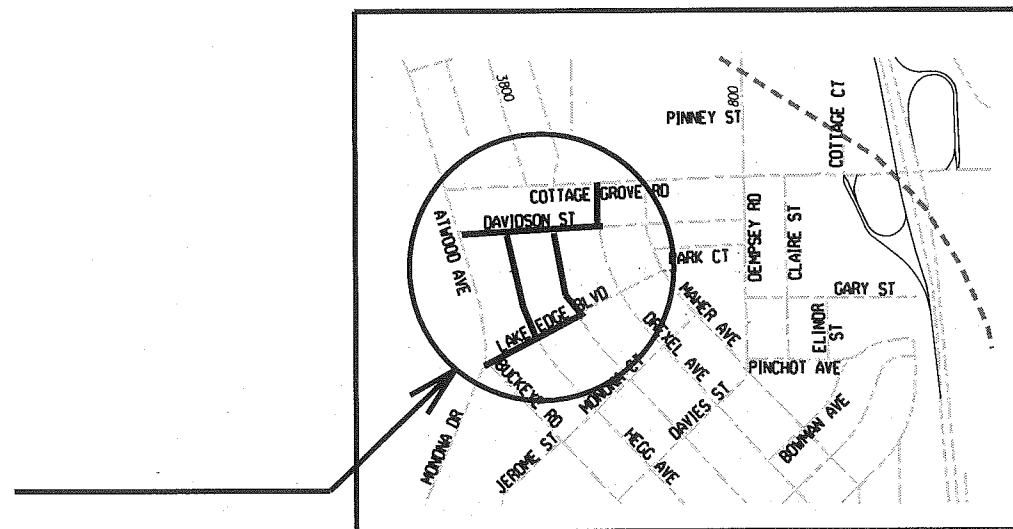
STREET DESIGNED BY:



STORM & SANITARY SEWER DESIGNED BY:



CONSTRUCTION PROJECT LOCATION



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% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

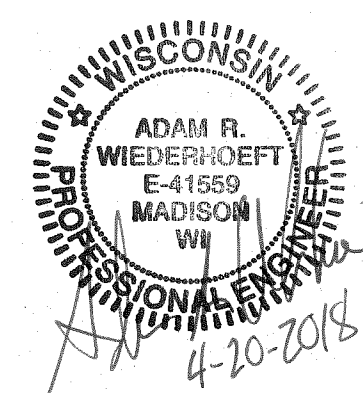
EARTH WORK SUMMARY:

EXCAVATION CUT (DAVIDSON ST) (MEASURED PLAN QUANTITY).....	1354 C.Y.
EXCAVATION CUT (DREXEL AVE) (MEASURED PLAN QUANTITY).....	335 C.Y.
EXCAVATION CUT (HEGG AVE) (MEASURED PLAN QUANTITY).....	1259 C.Y.
EXCAVATION CUT (LAKE EDGE BLVD) (MEASURED PLAN QUANTITY).....	1393 C.Y.
EXCAVATION CUT (MAJOR AVE) (MEASURED PLAN QUANTITY).....	1074 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT (UNDISTRIBUTED).....	1296 C.Y.

TOTAL UNCLASSIFIED EXCAVATION CUT..... 6711 C.Y.

GEOMETRY DESIGNED BY:

WATER DESIGNED BY:



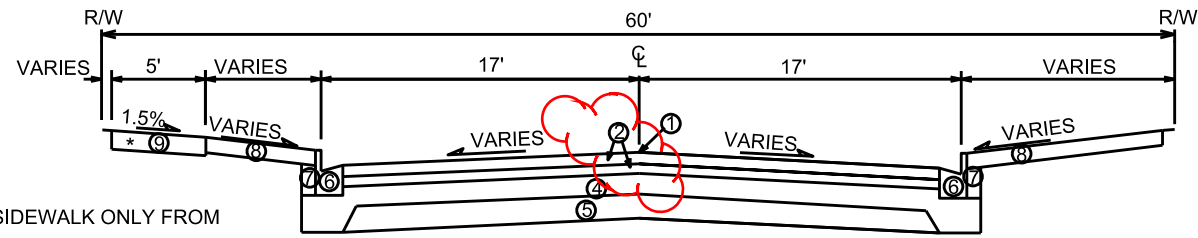
PLOT SCALE:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 8/1/2018 GEY

TYPICAL SECTIONS NOT TO SCALE



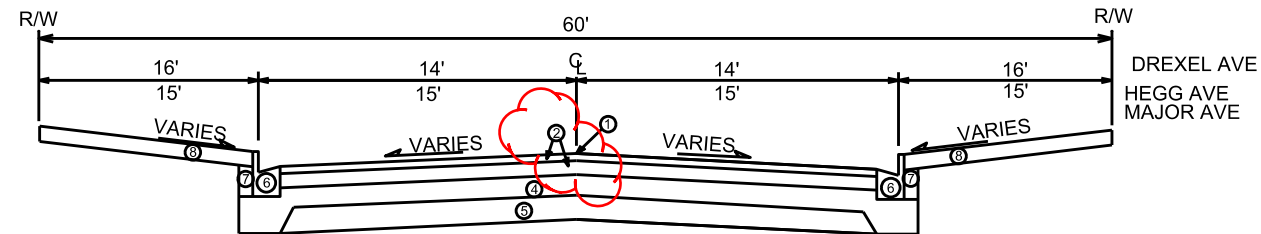
* SIDEWALK ONLY FROM
STA. 11+40.26 TO STA 16+34

TYPICAL FINISHED SECTION

DAVIDSON STREET

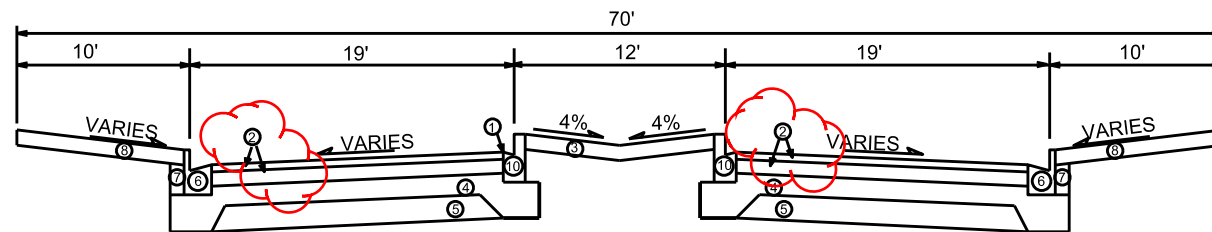
- ① POINT REFERRED TO ON PROFILE
- ② 3 1/2" HMA PAV'T TYPE 4 LT 58-28 S - UPPER LAYER 1 3/4"
- LOWER LAYER 1 3/4"
- ③ 6" TOPSOIL & NO MOW TURF SEED
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 6" TOPSOIL, SEED & MAT
- ⑨ 5" CONCRETE SIDEWALK
- ⑩ TYPE 'H' CONCRETE CURB & GUTTER

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



TYPICAL FINISHED SECTION

DREXEL AVENUE
HEGG AVENUE
MAJOR AVENUE



TYPICAL FINISHED SECTION

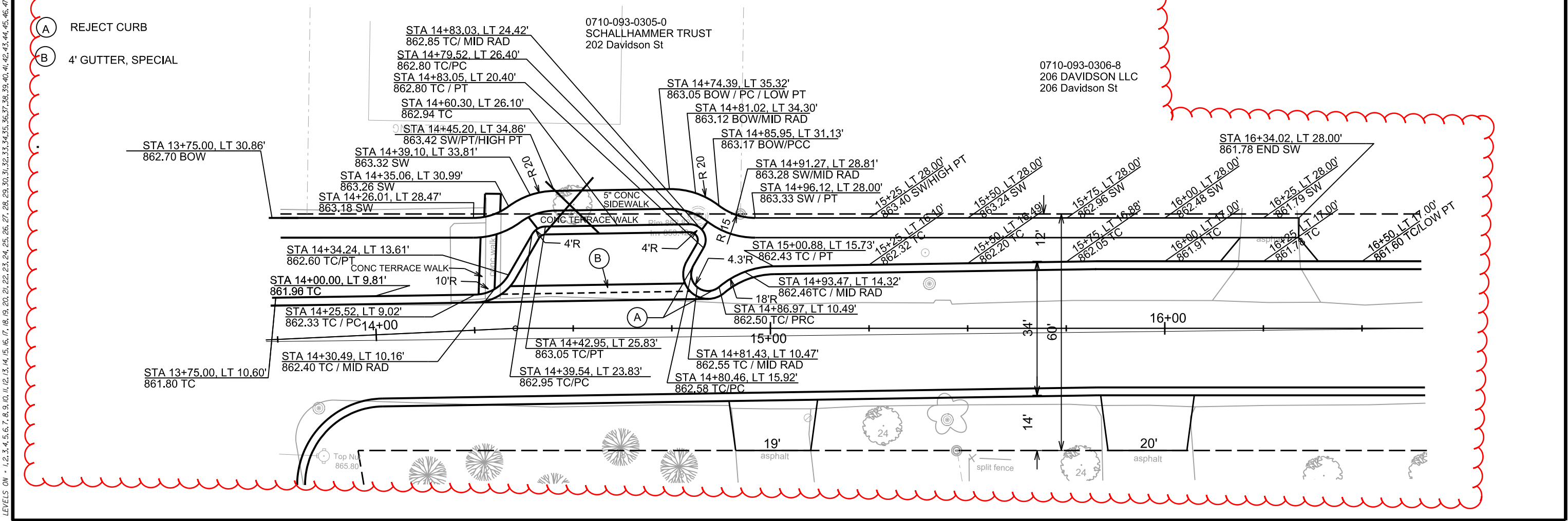
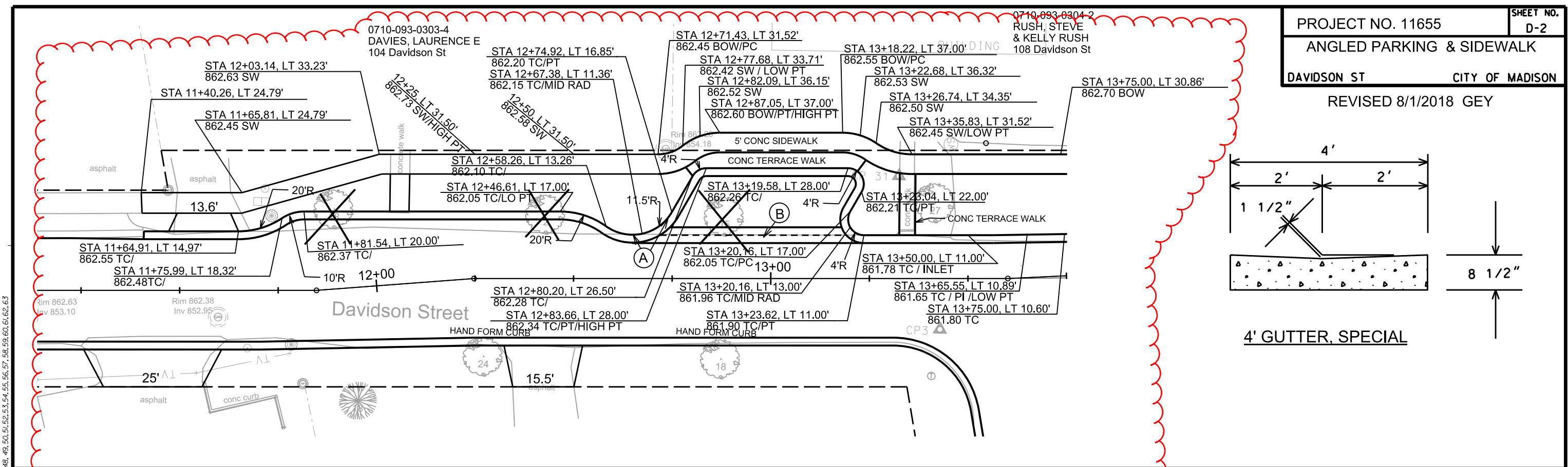
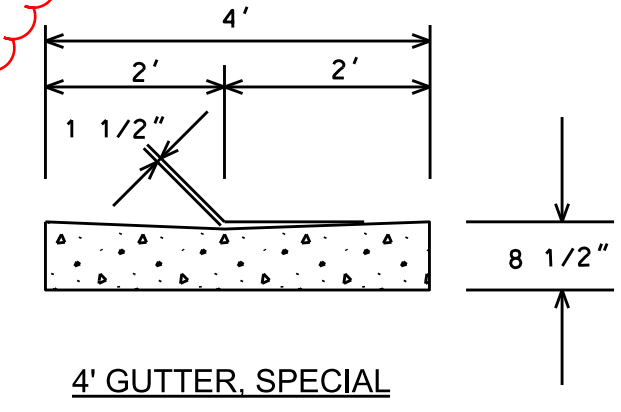
LAKE EDGE BOULEVARD

CONTROL POINTS

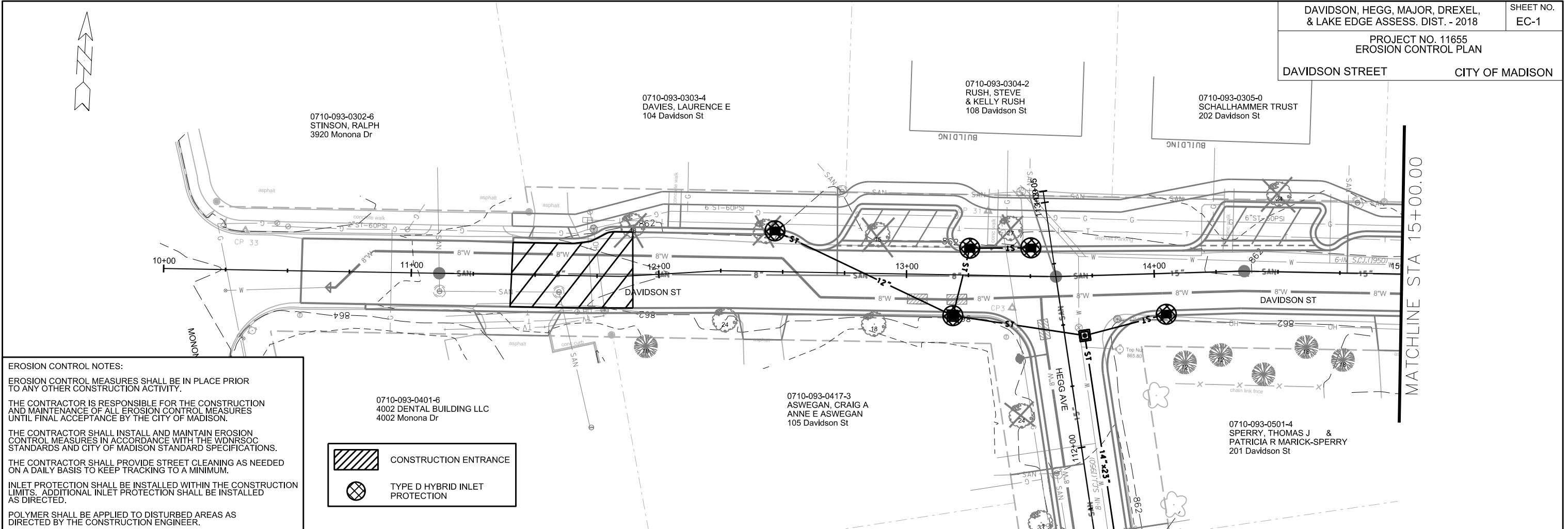
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- 3,485774.9520,837434.9340, 861.4100,CP,
- 11,484948.4850,837644.0920, 855.0200,CP,
- 20,485830.0340,837806.9780, 864.1900,CP,120
- 21,485120.5370,837977.1950, 857.4900,CP,120
- 30,485826.3720,838155.7440, 865.7000,CP,SUR SPK
- 31,485813.4920,837423.2010, 862.3200,CP,
- 32,485485.9500,837528.4910, 858.2000,CP,
- 33,485789.8500,837124.1220, 864.1200,CP,SUR NAL
- 34,485991.7290,838166.3380, 870.8600,CP,SUR NAIL

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

REVISED 8/1/2018 GEY



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



EROSION CONTROL NOTES:

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POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

0710-093-0401-6
4002 DENTAL BUILDING LLC
4002 Monona Dr

0710-093-0417-3
ASWEGAN, CRAIG A
ANNE E ASWEGAN
105 Davidson St

0710-093-0302-6
STINSON, RALPH
3920 Monona Dr

0710-093-0303-4
DAVIES, LAURENCE E
104 Davidson St

0710-093-0304-2
RUSH, STEVE
& KELLY RUSH
108 Davidson St

0710-093-0305-0
SCHALLHAMMER TRUST
202 Davidson St

0710-093-0501-4
SPERRY, THOMAS J &
PATRICIA R MARICK-SPERRY
201 Davidson St

CONSTRUCTION ENTRANCE

TYPE D HYBRID INLET PROTECTION





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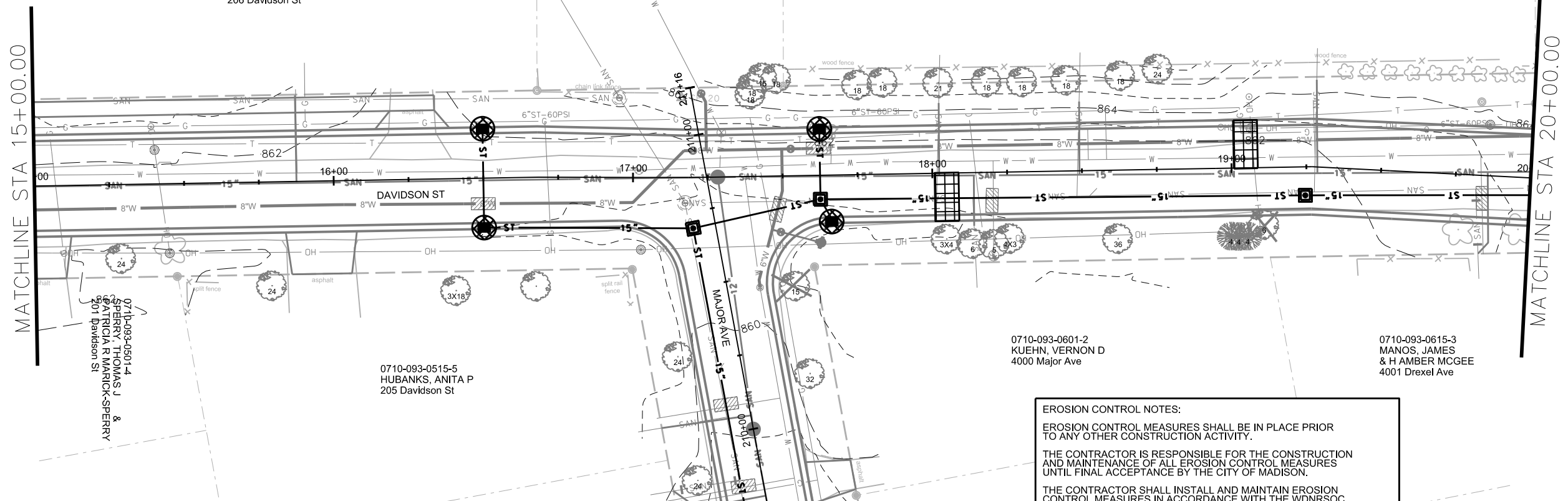
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

MATCHLINE STA 15+00.00

 TYPE D HYBRID INLET PROTECTION
 STREET CONSTRUCTION STONE BERM

0710-093-0307-6
VFW POST 7591
DONALD & GALEN DAY
301 Cottage Grove Rd



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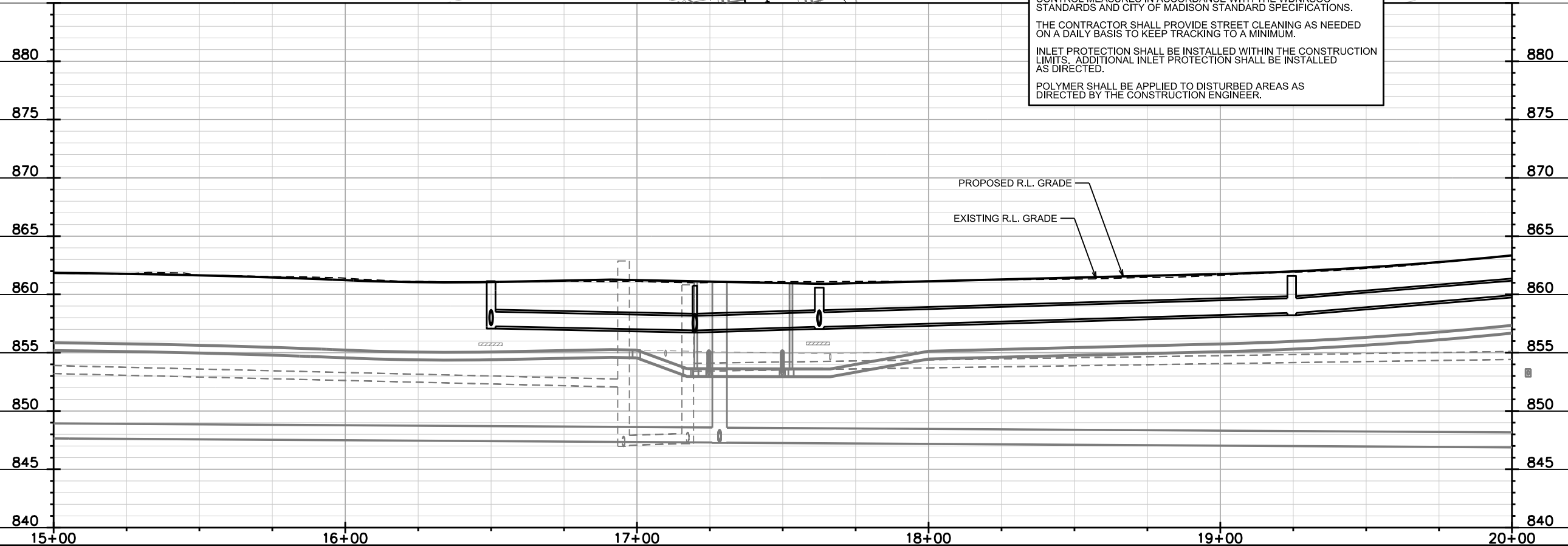
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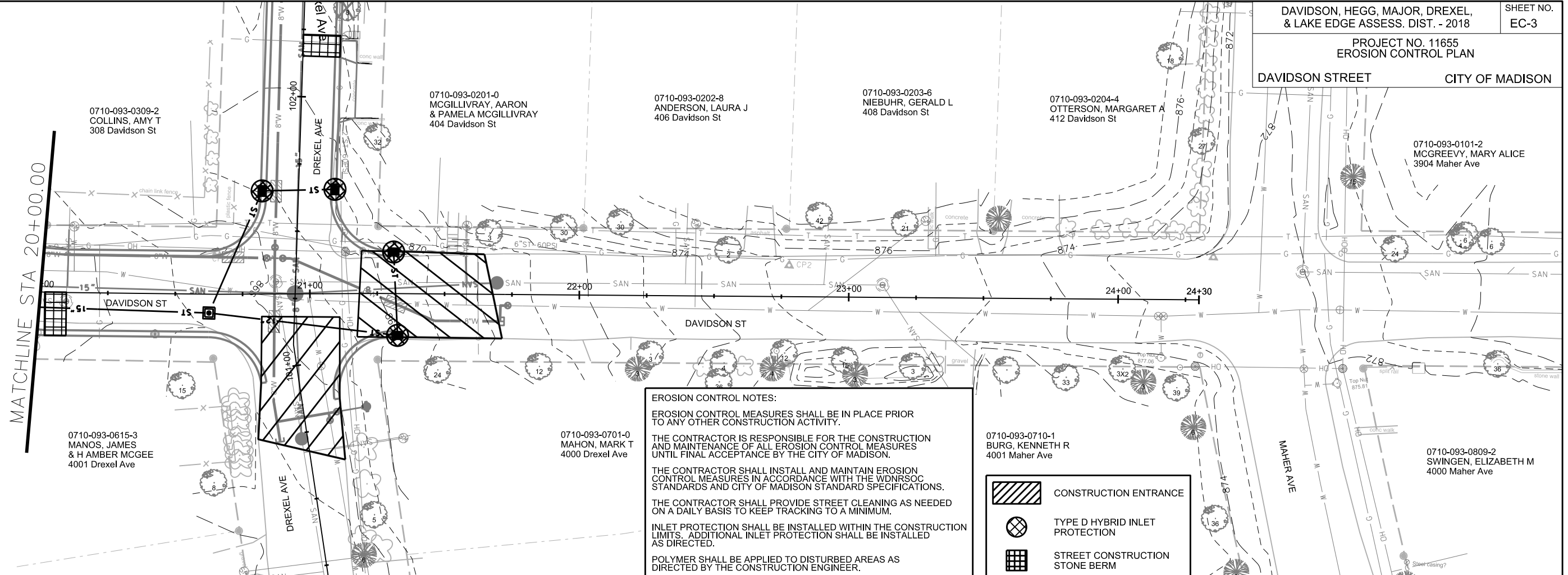
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PROJECT NO. 11655
 EROSION CONTROL PLAN

DAVIDSON STREET CITY OF MADISON



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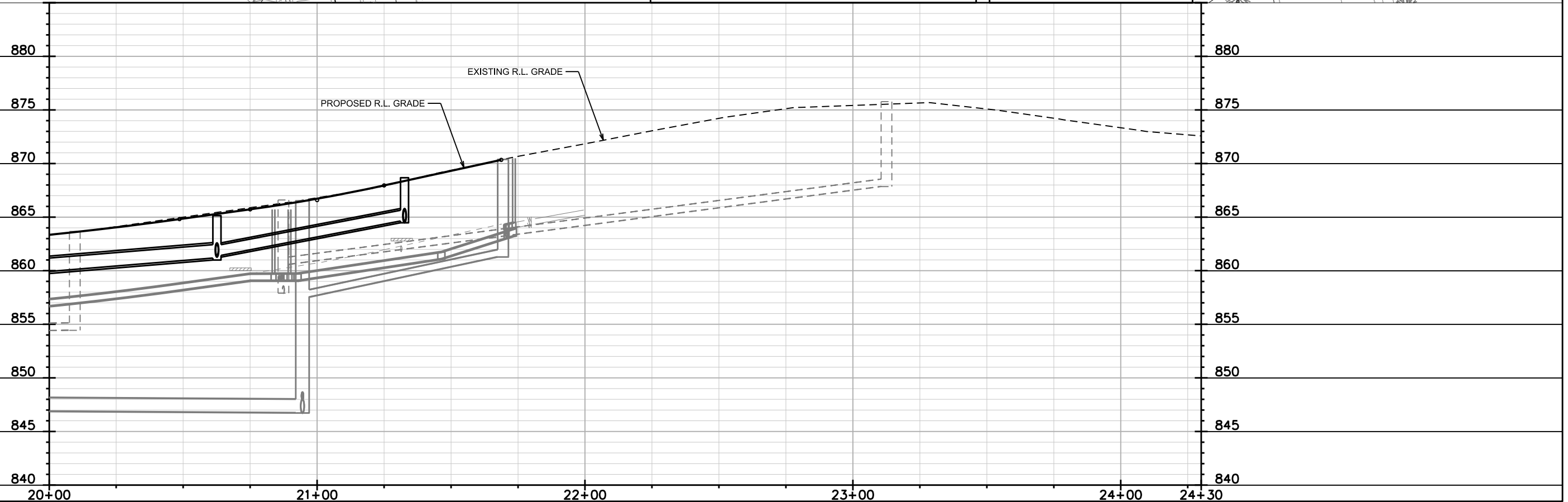
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	TYPE D HYBRID INLET PROTECTION
	STREET CONSTRUCTION STONE BERM

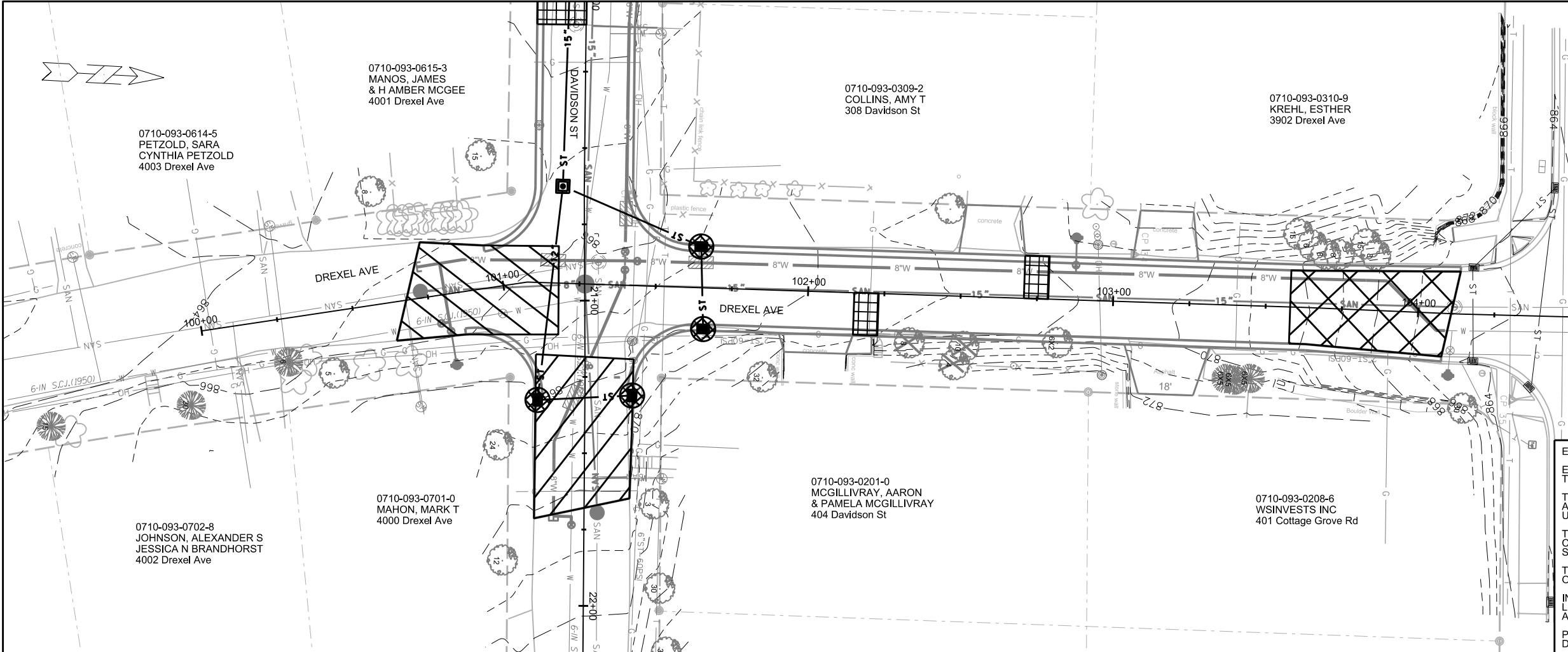


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	STREET CONSTRUCTION ENTRANCE BERM
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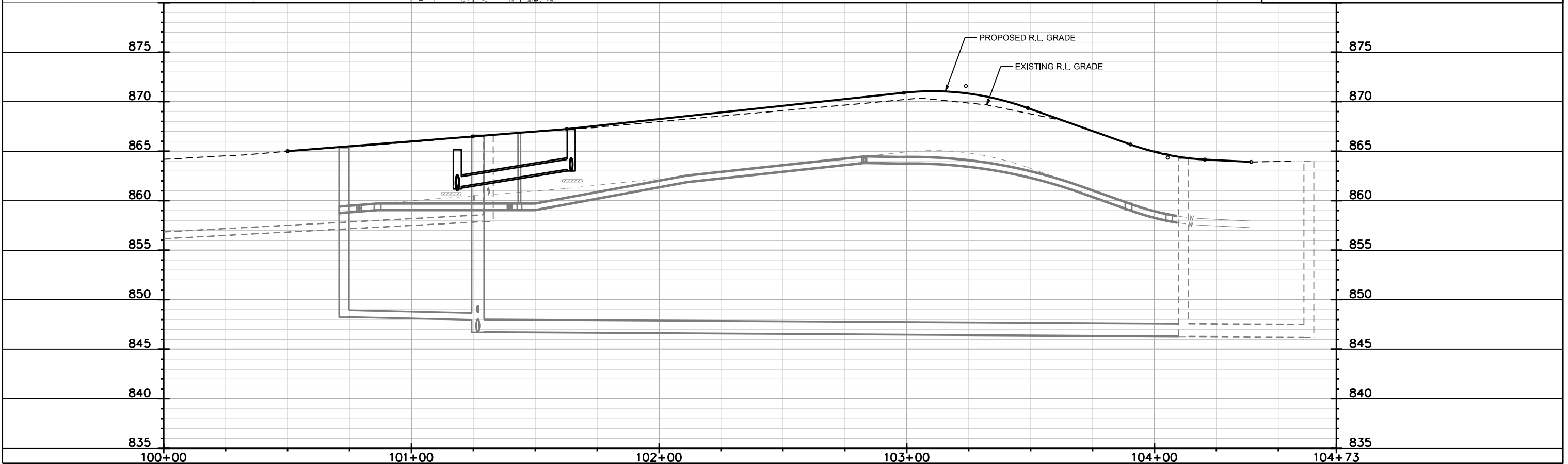
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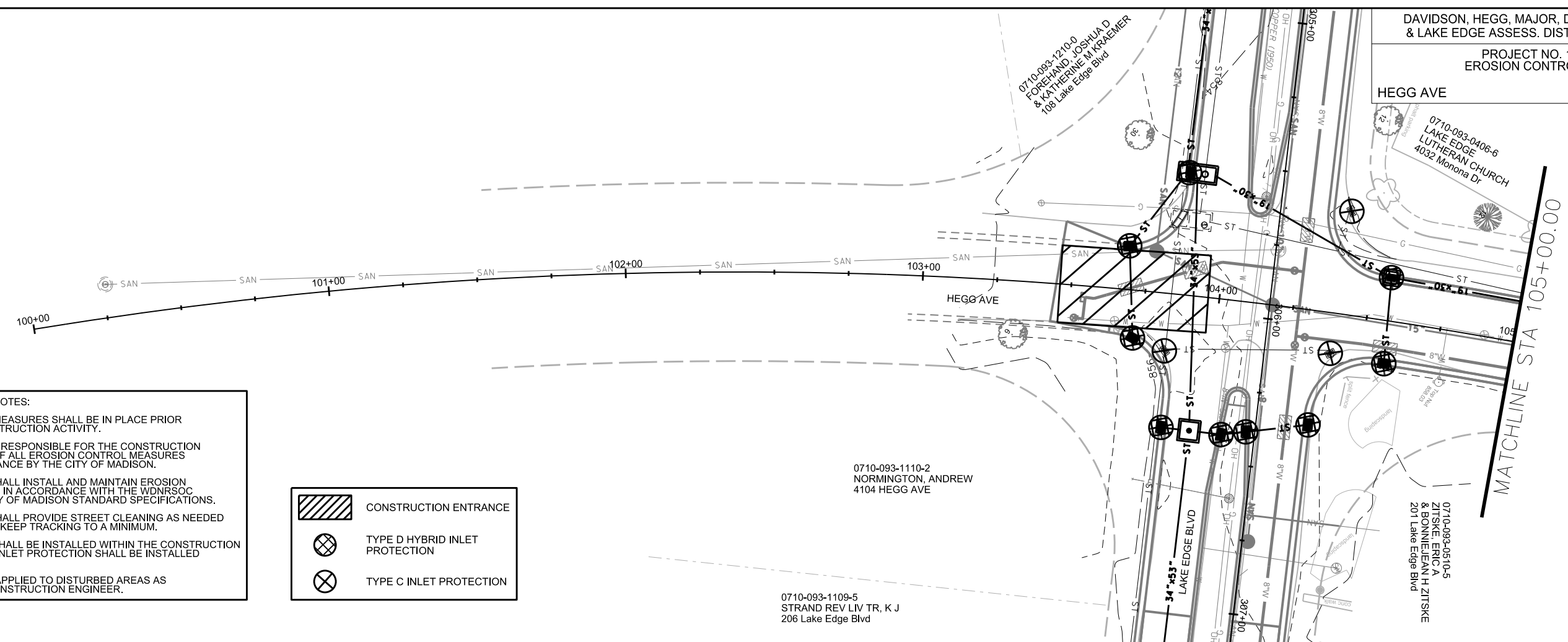
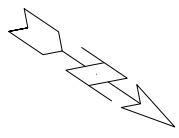
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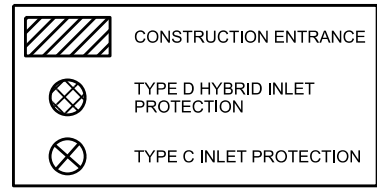
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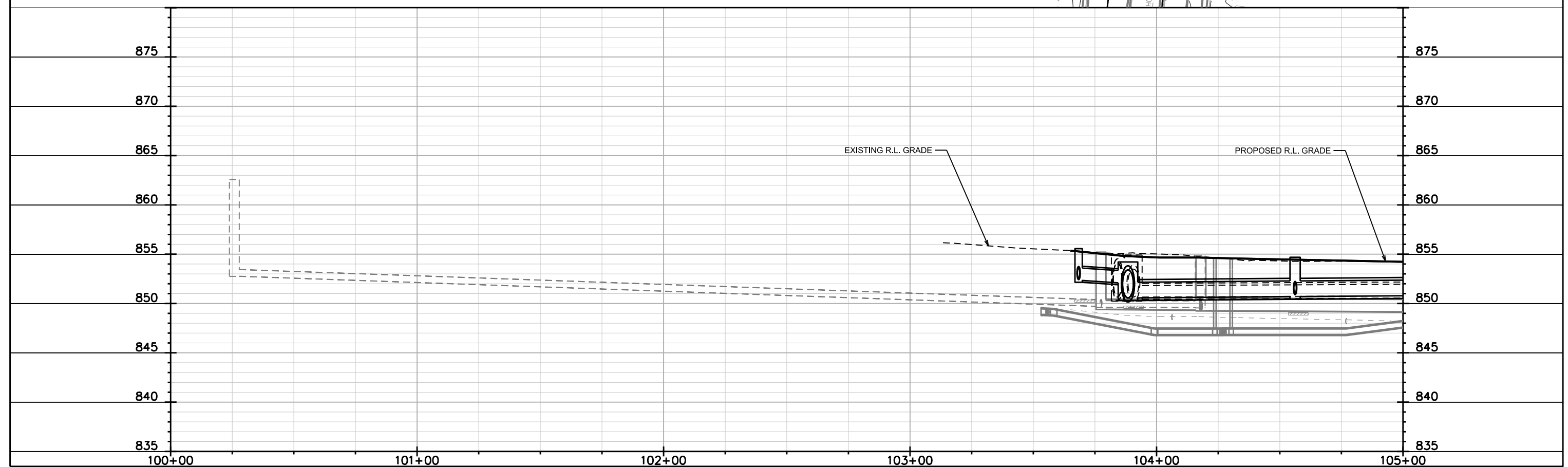


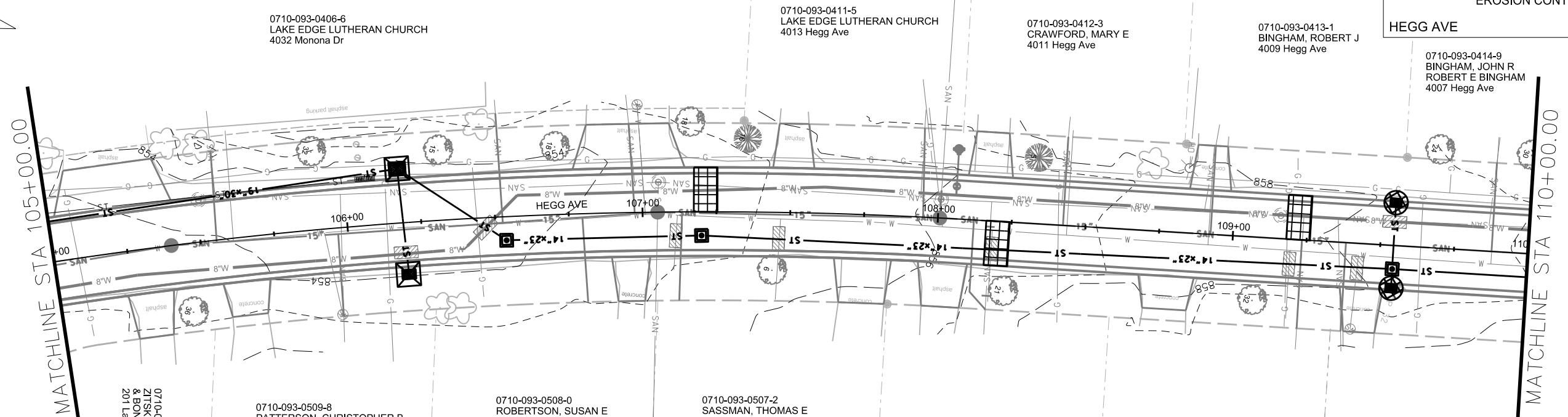
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
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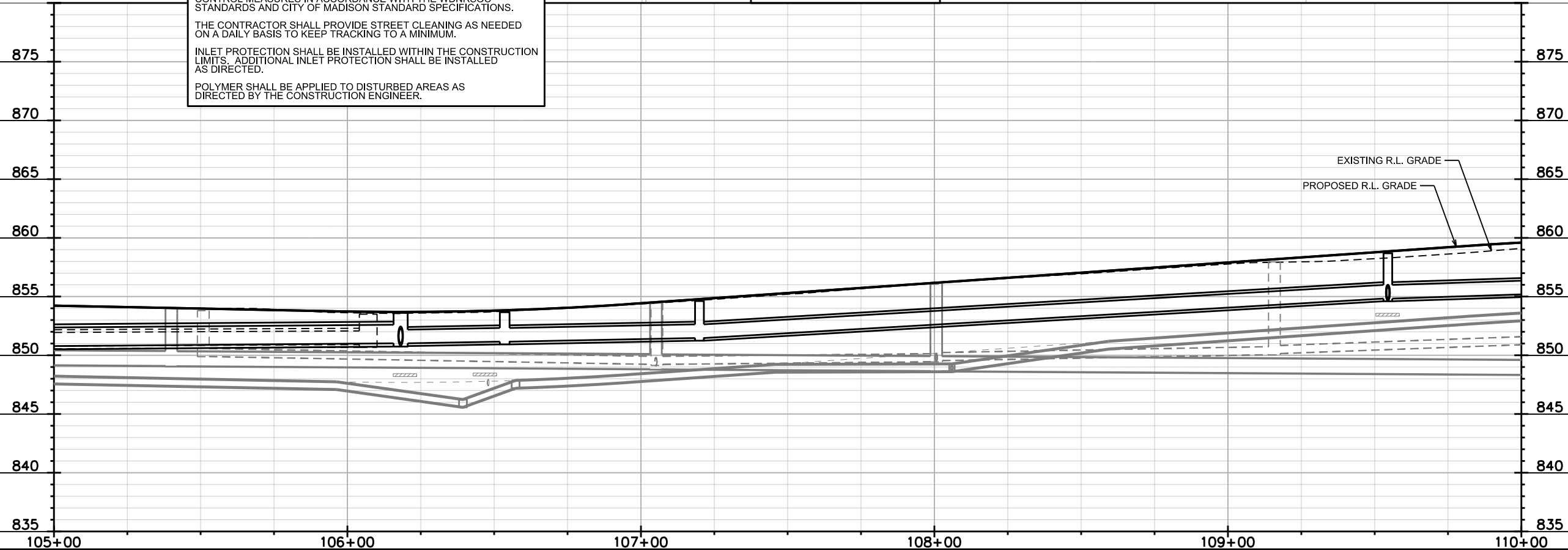
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-  TYPE A INLET PROTECTION
-  TYPE D HYBRID INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-093-0303-4
DAVIES, LAURENCE E
104 Davidson St

0710-093-0414-9
BINGHAM, JOHN R.
ROBERT E BINGHAM
4007 Hegg Ave

0710-093-0415-7
ALLEN, CAROL J
4005 Hegg Ave

0710-093-0416-5
BLICHARZ, CAROL A
4003 Hegg Ave

0710-093-0417-3
ASWEGAN, CRAIG A
ANNE E ASWEGAN
105 Davidson St



0710-093-0304-2
RUSH, STEVE
& KELLY RUSH
108 Davidson St

0710-093-0503-0
HOLDEN, CAROL M
4004 Hegg Ave

0710-093-0502-2
OLSON, MICHAEL R
& RACHEL Z WEINGARTEN
4002 Hegg Ave

0710-093-0501-4
SPERRY, THOMAS J
& PATRICIA R MARICK-SPERRY
201 Davidson St

0710-093-0305-0
SCHALLHAMMER TRUST
202 Davidson St

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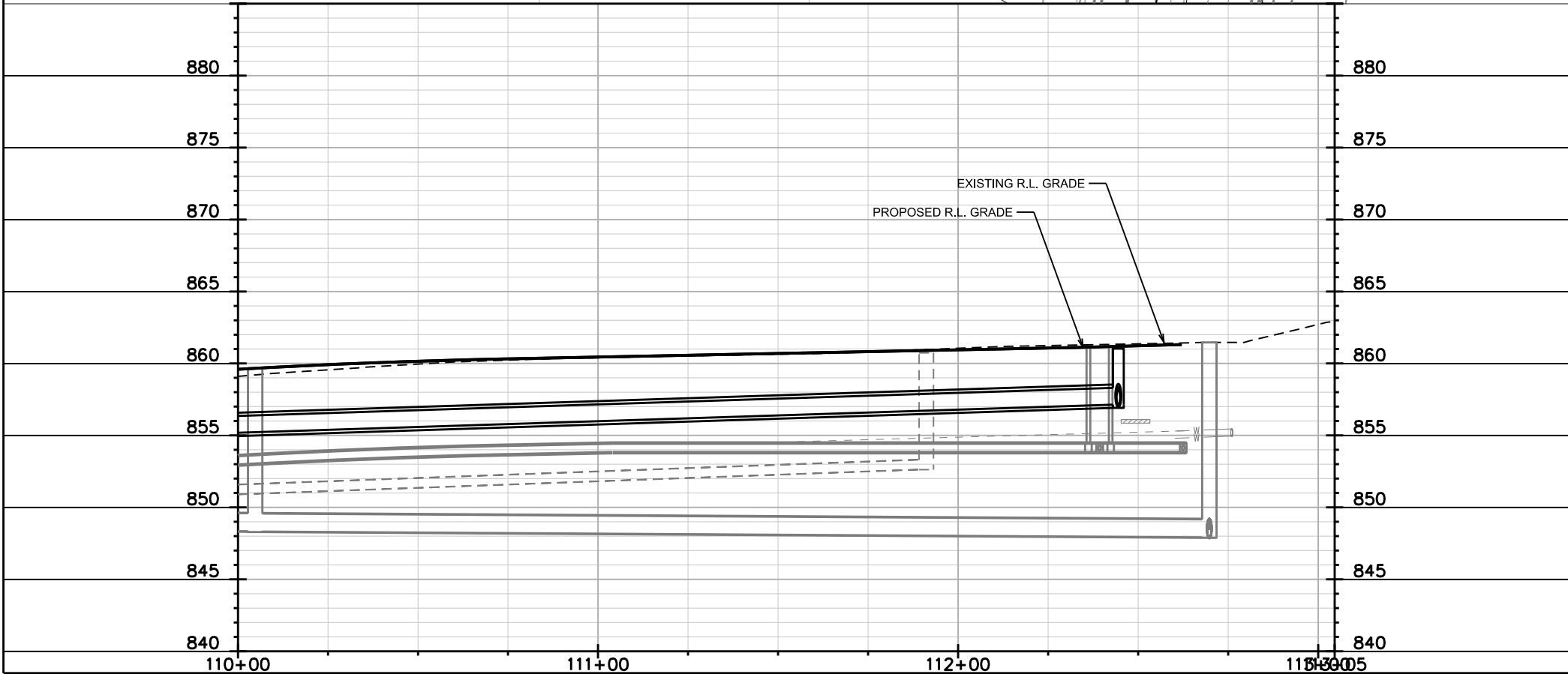
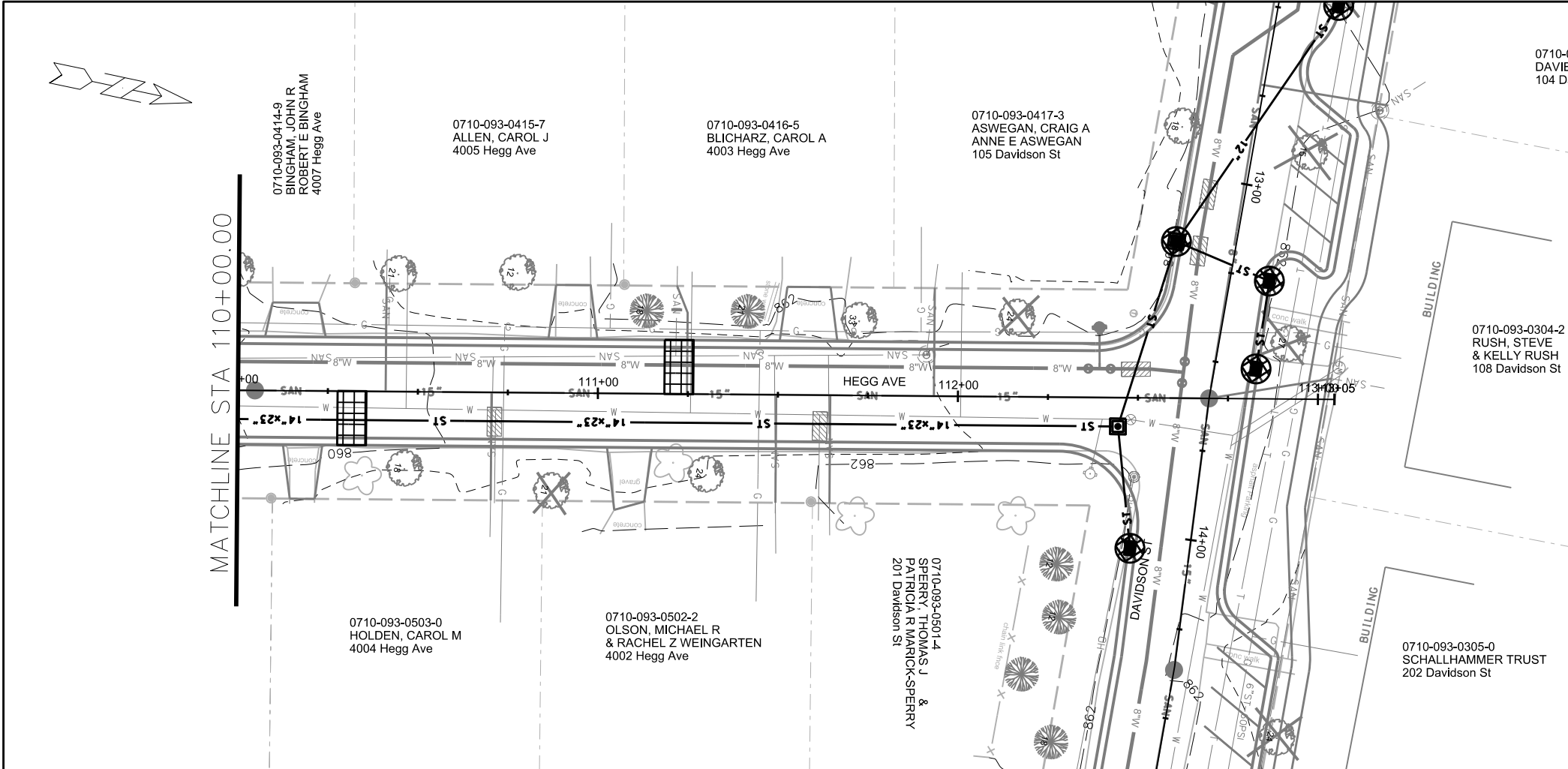
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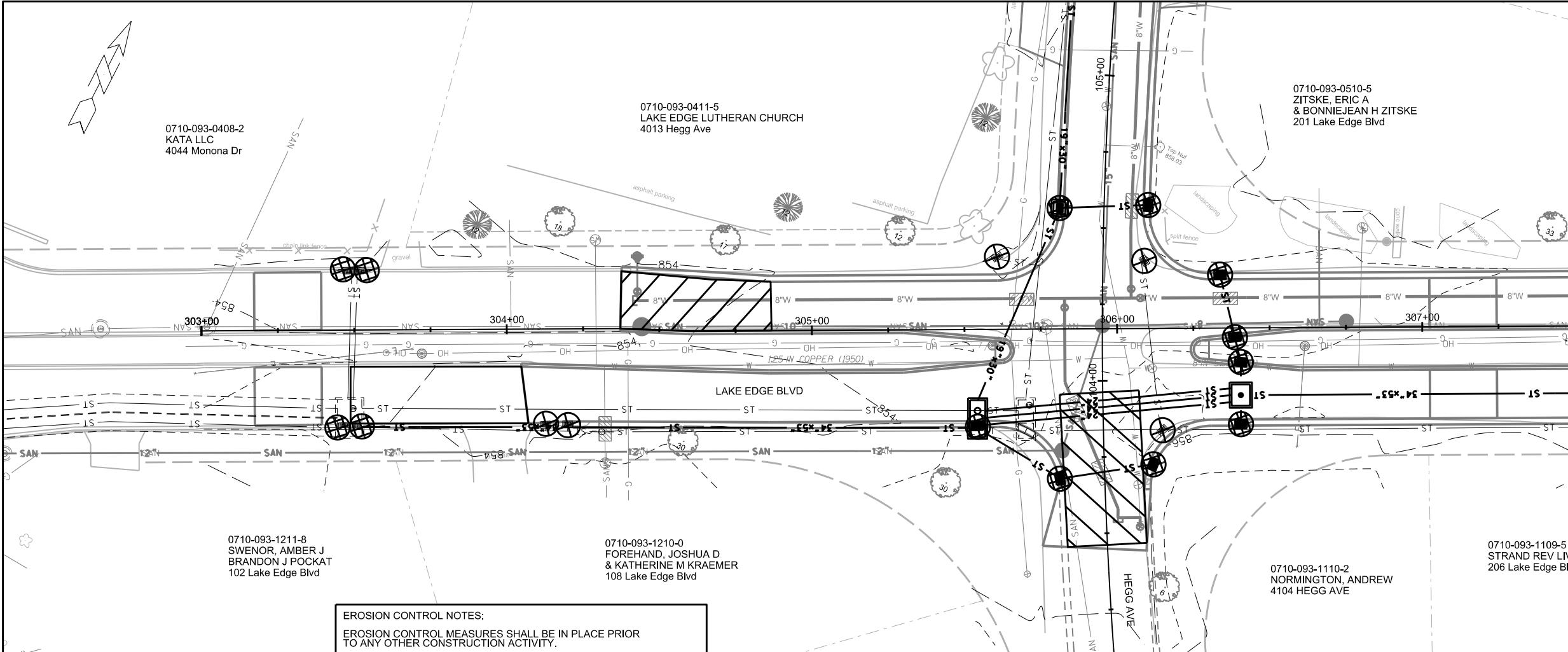


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	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION

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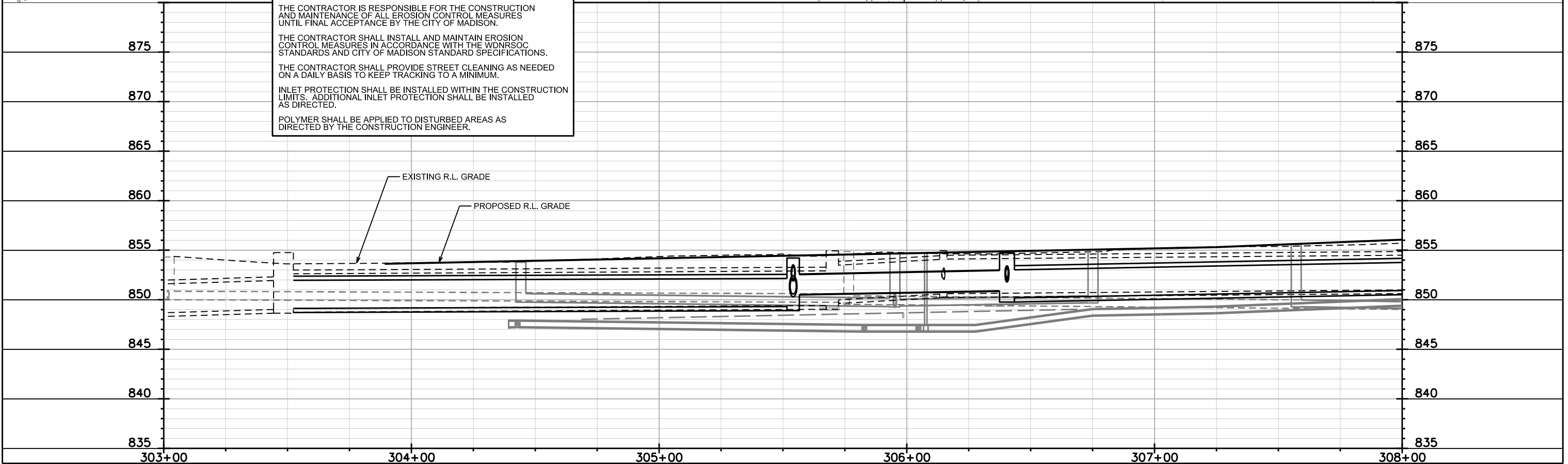
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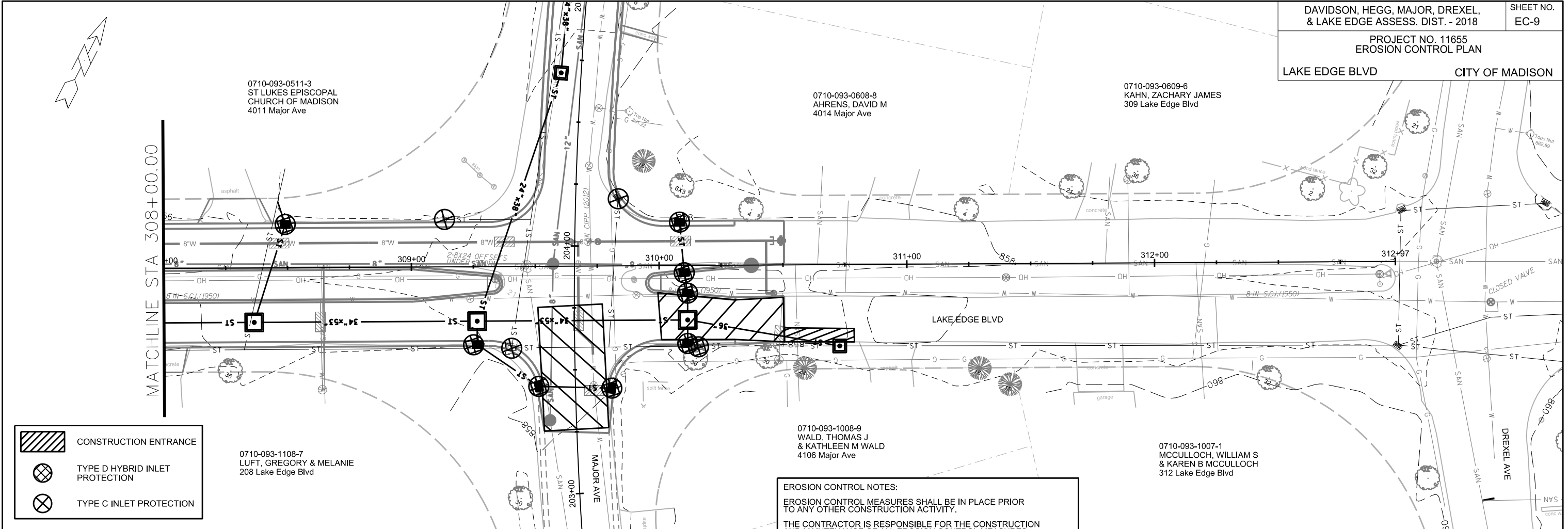


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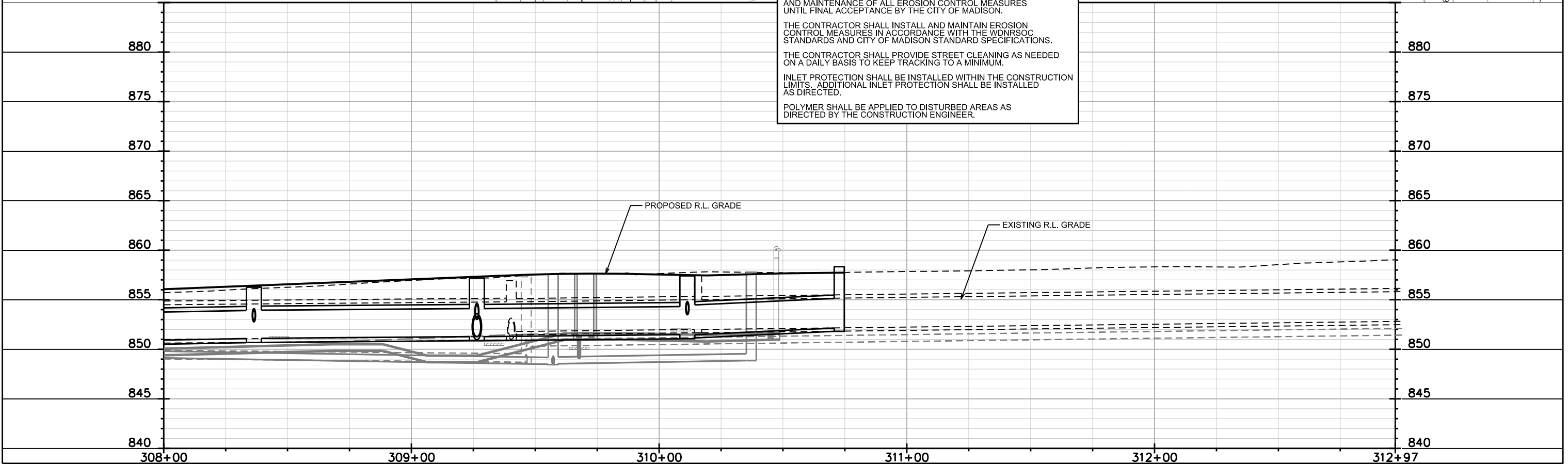
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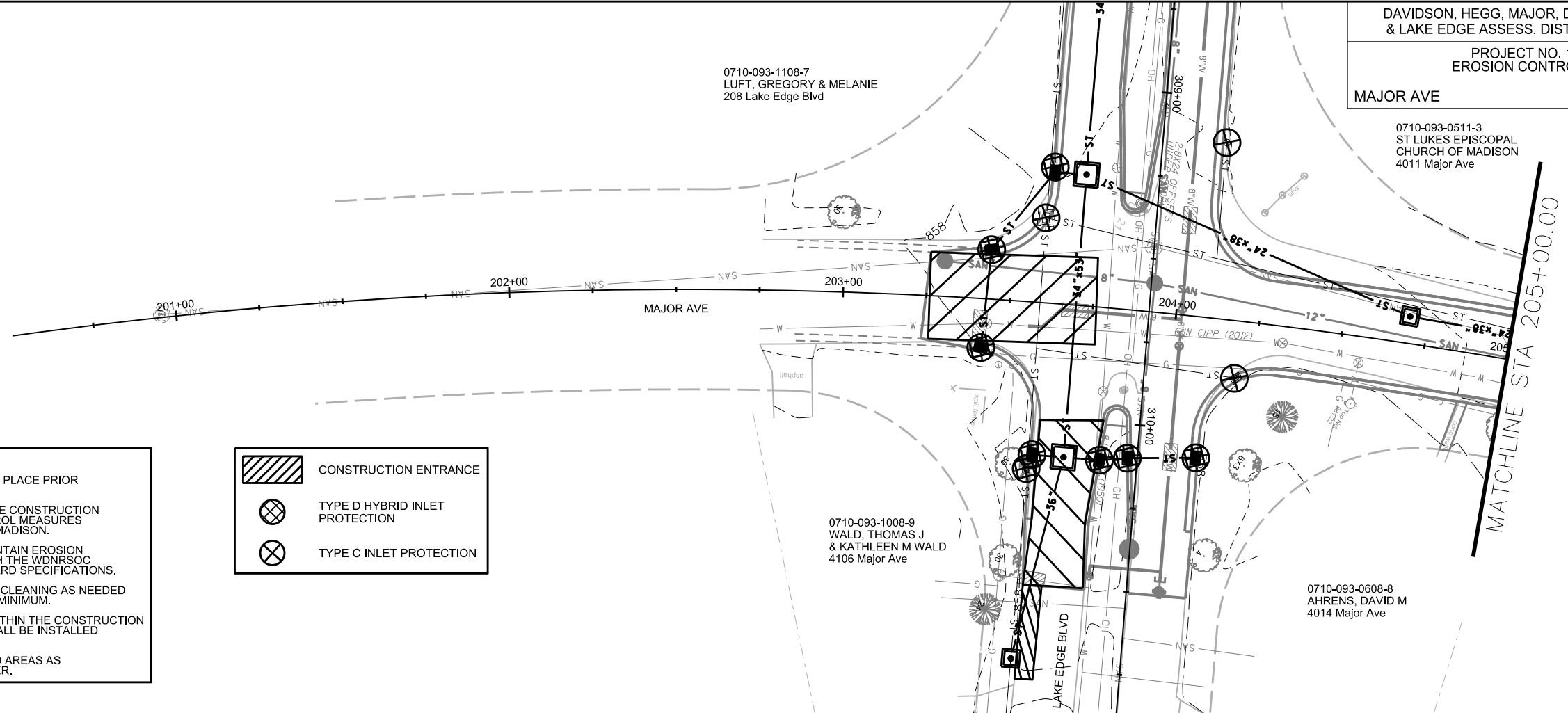
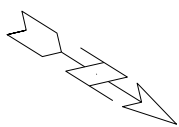


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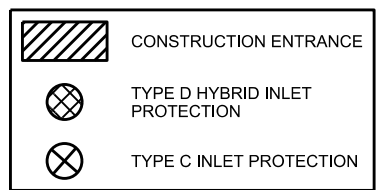
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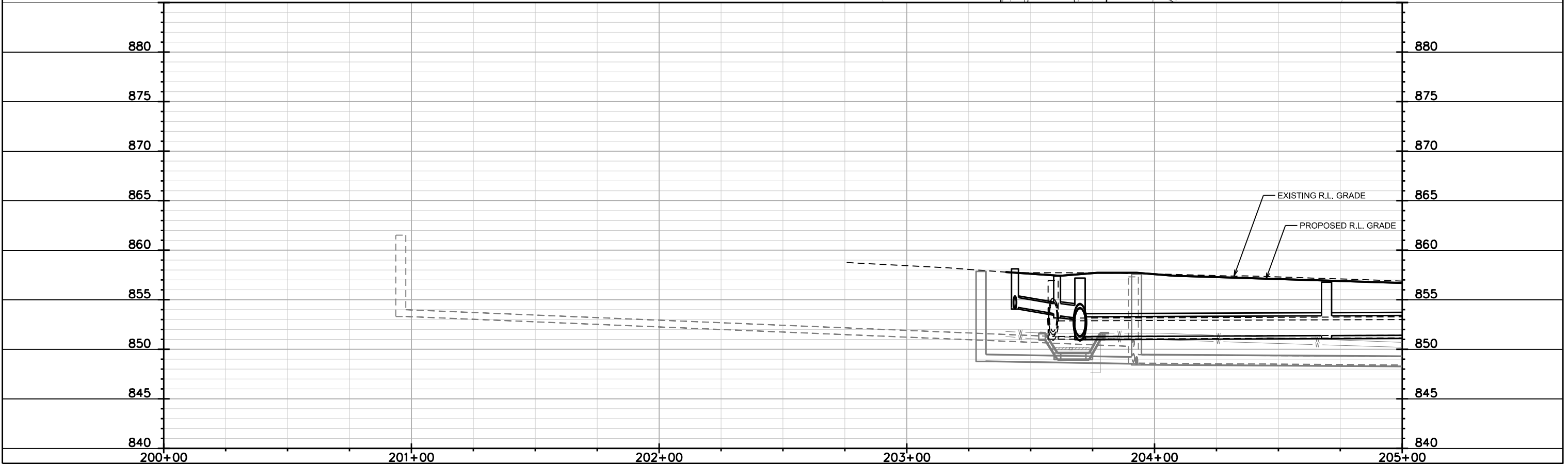


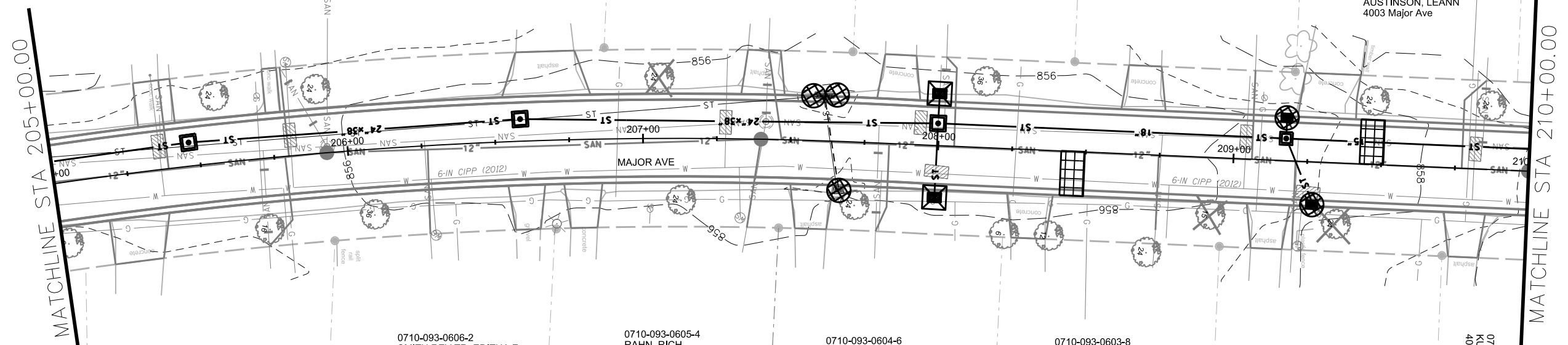
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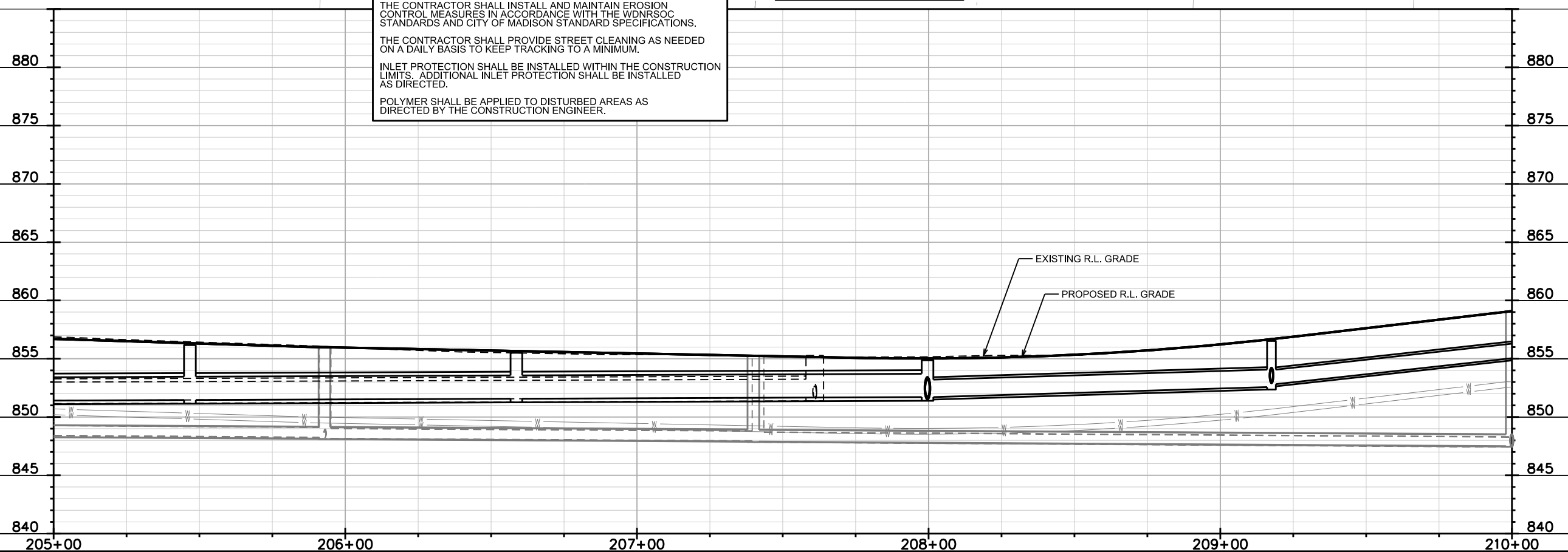
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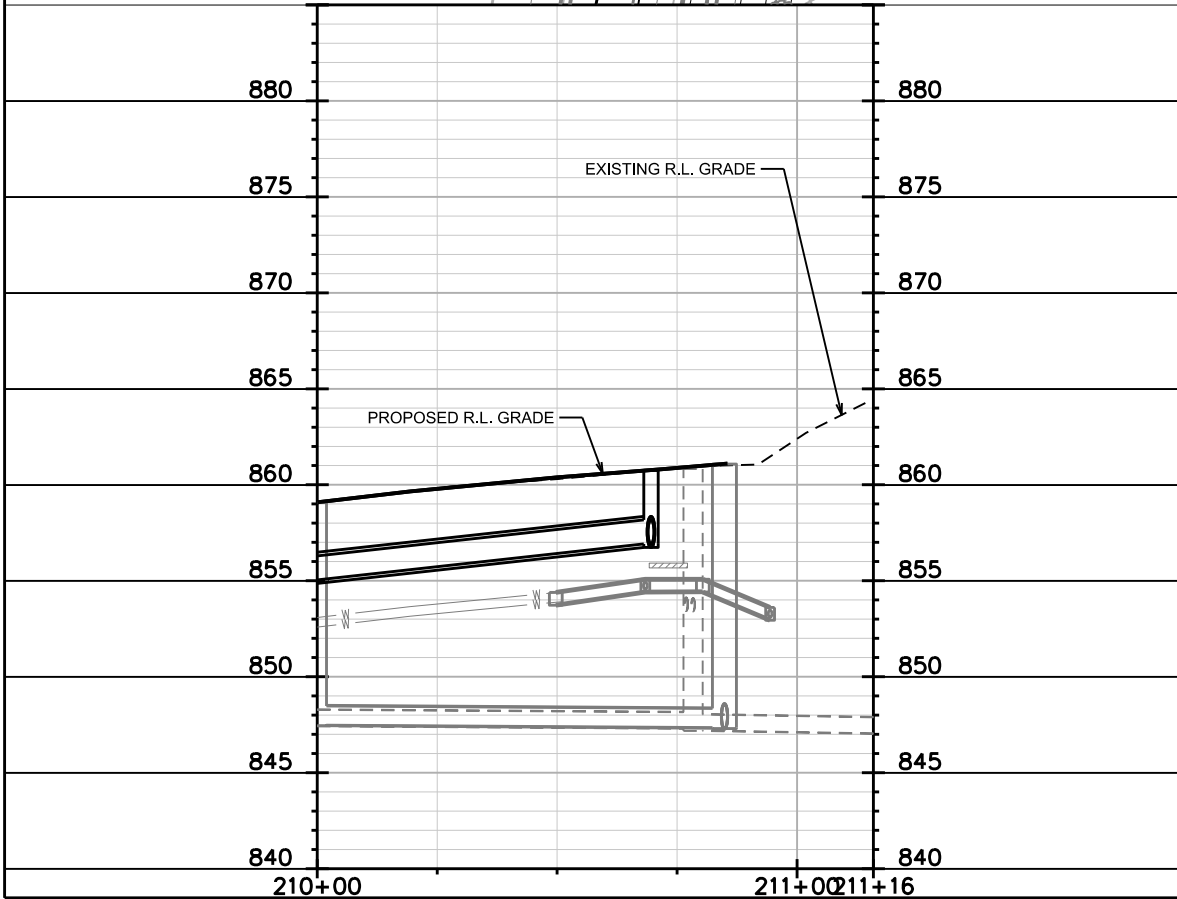
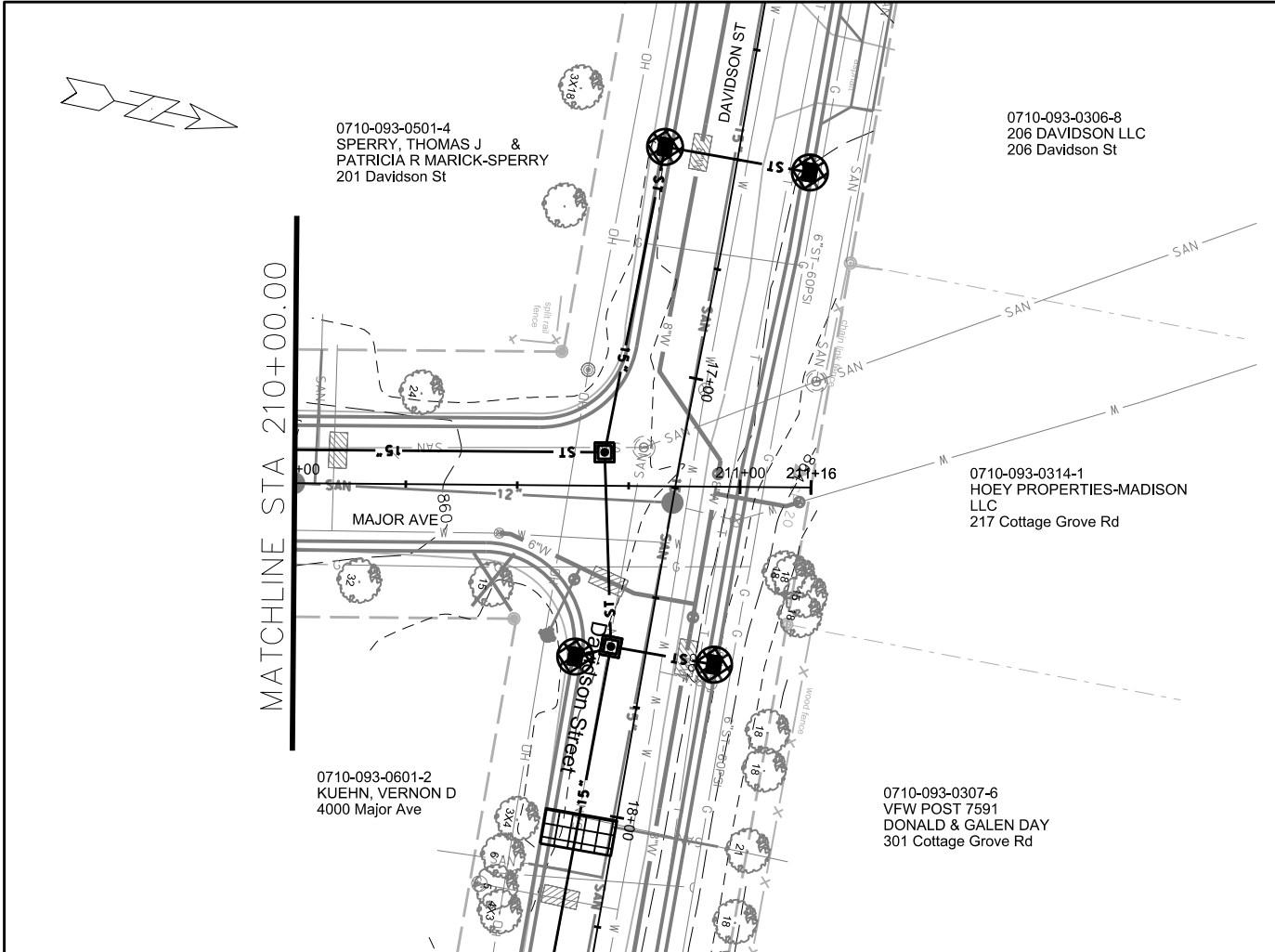
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

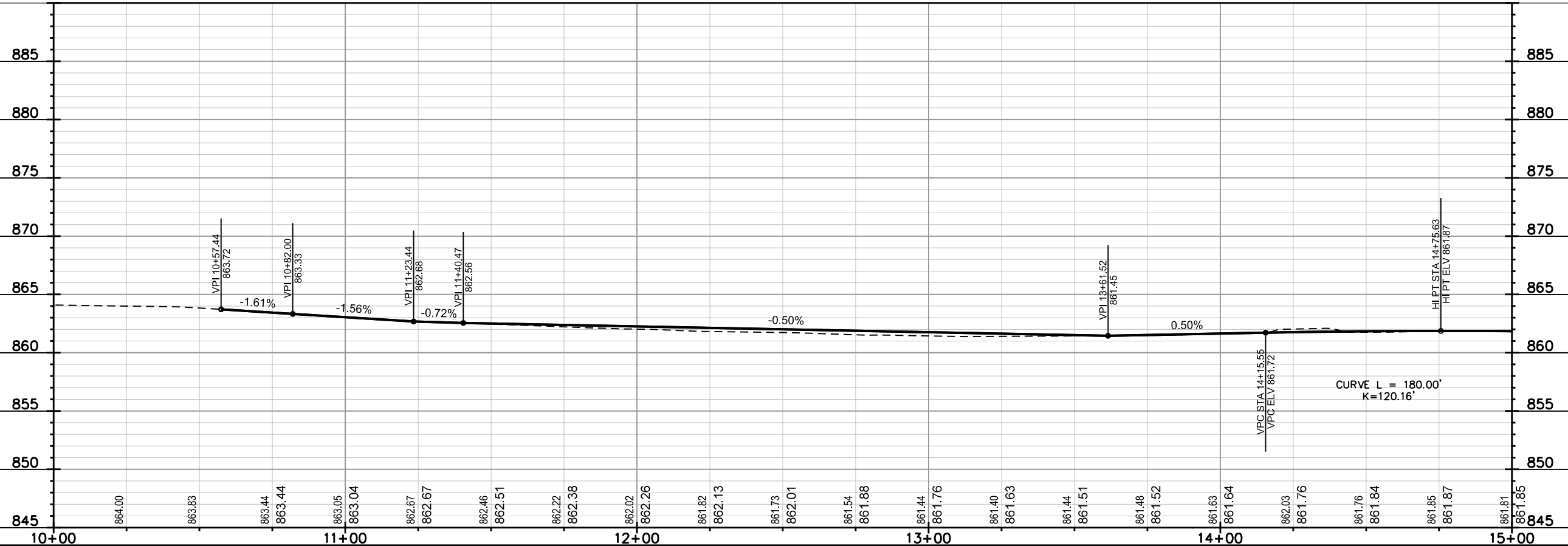
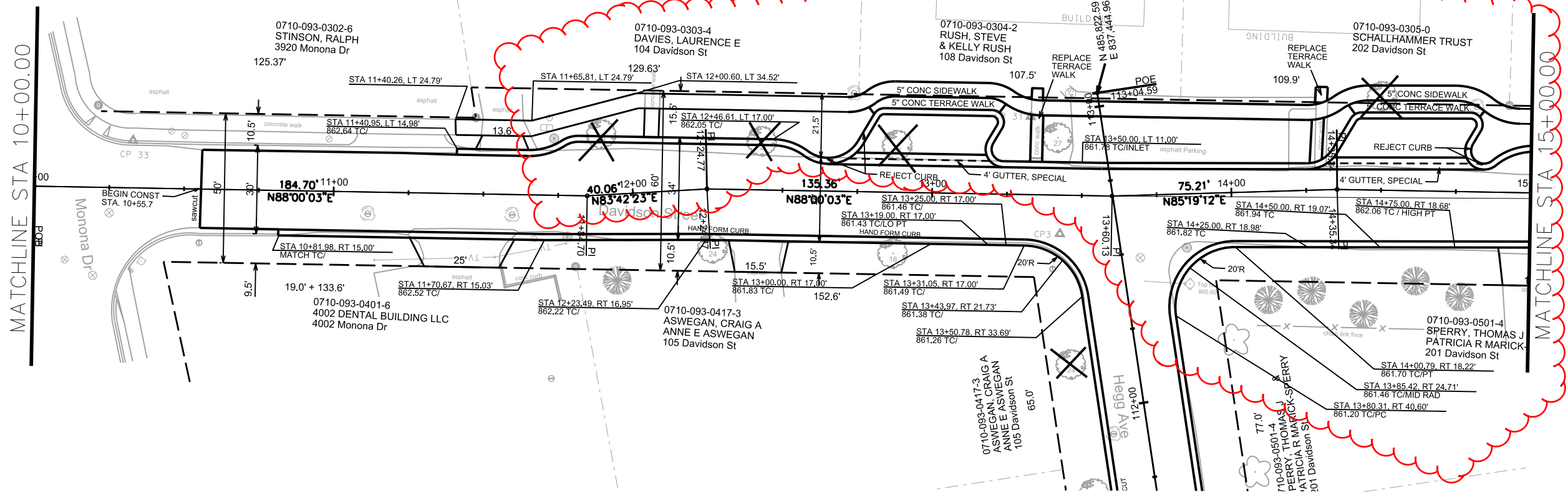




- TYPE A INLET PROTECTION
- TYPE D HYBRID INLET PROTECTION
- STREET CONSTRUCTION STONE BERM



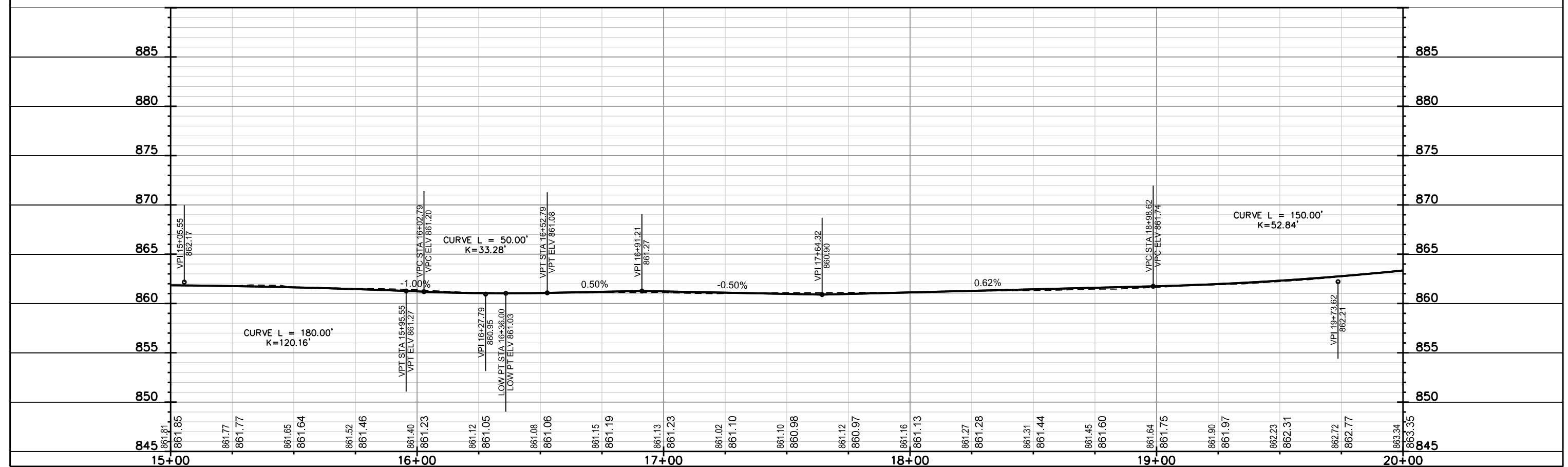
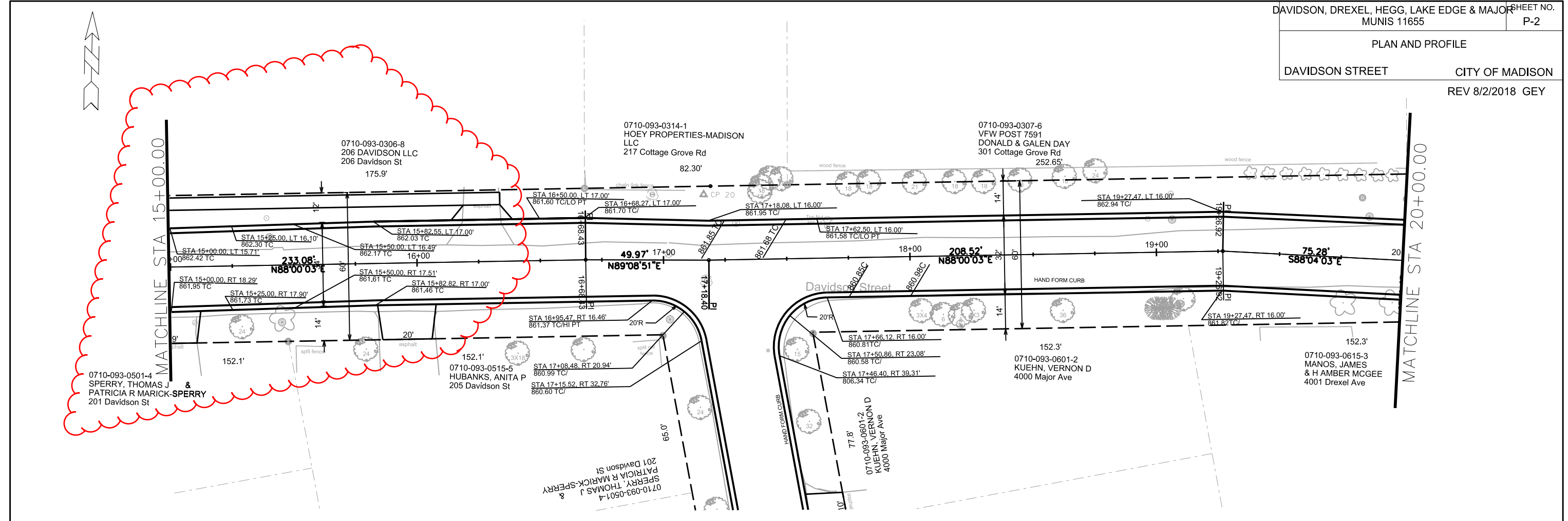




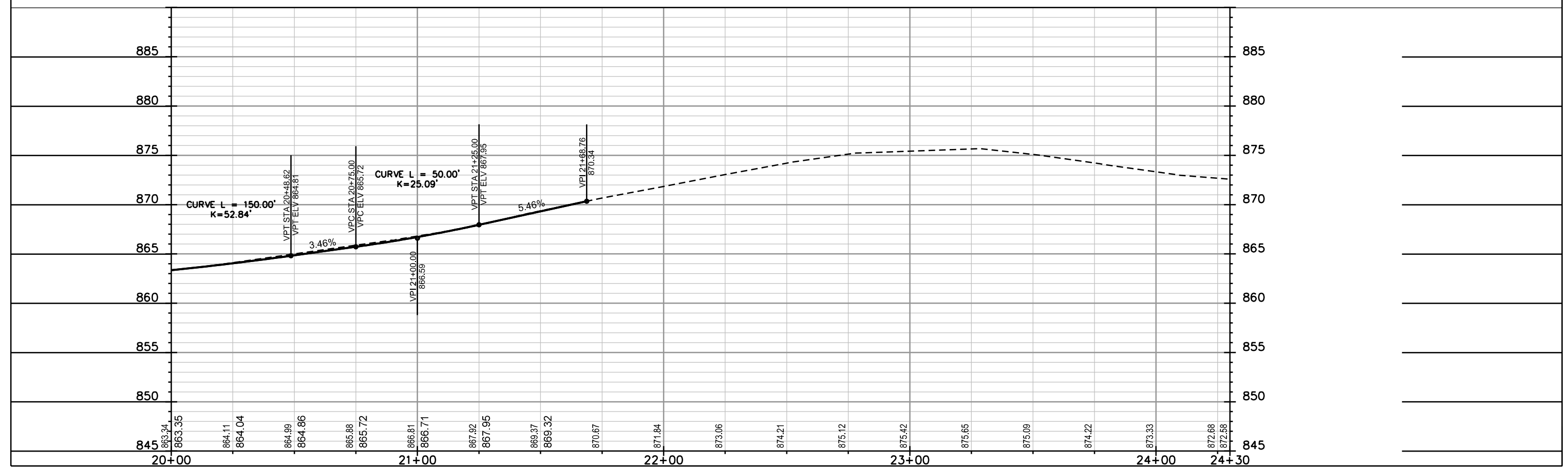
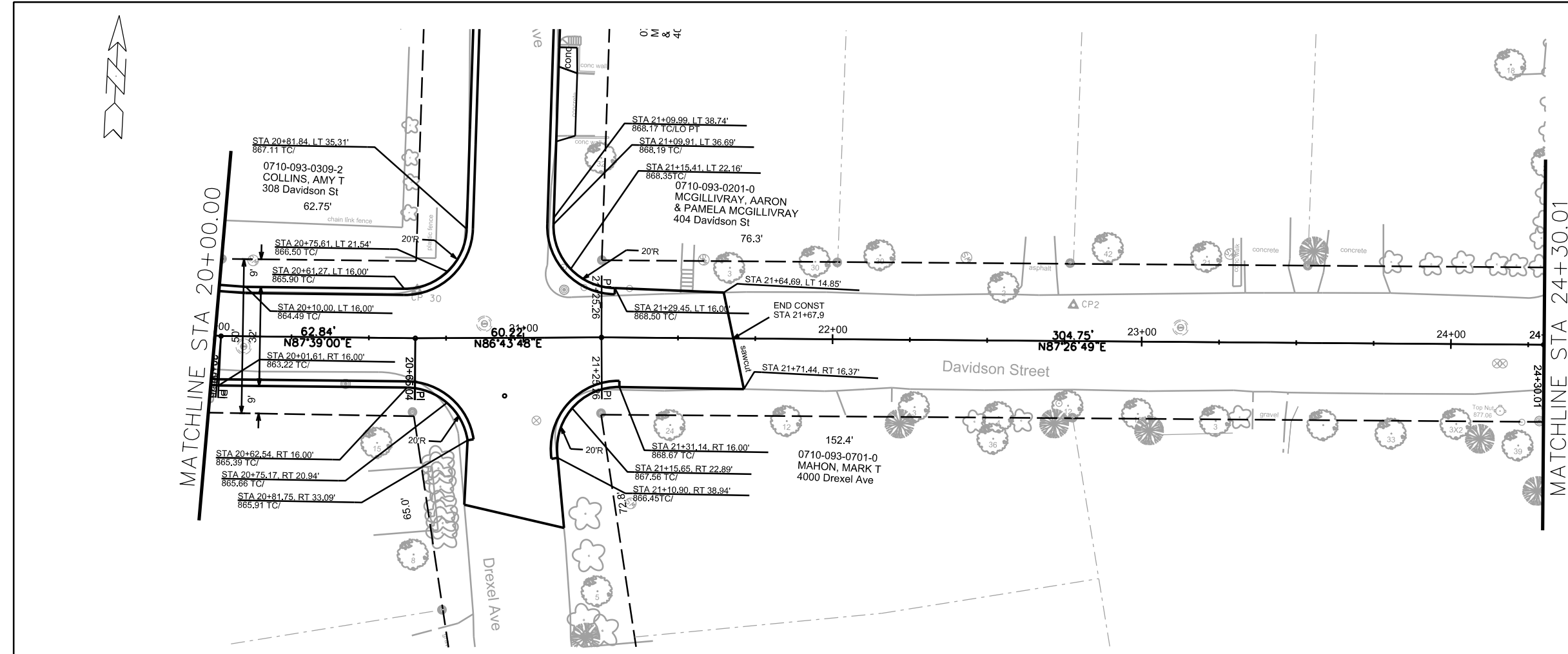
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLAN AND PROFILE
DAVIDSON STREET CITY OF MADISON

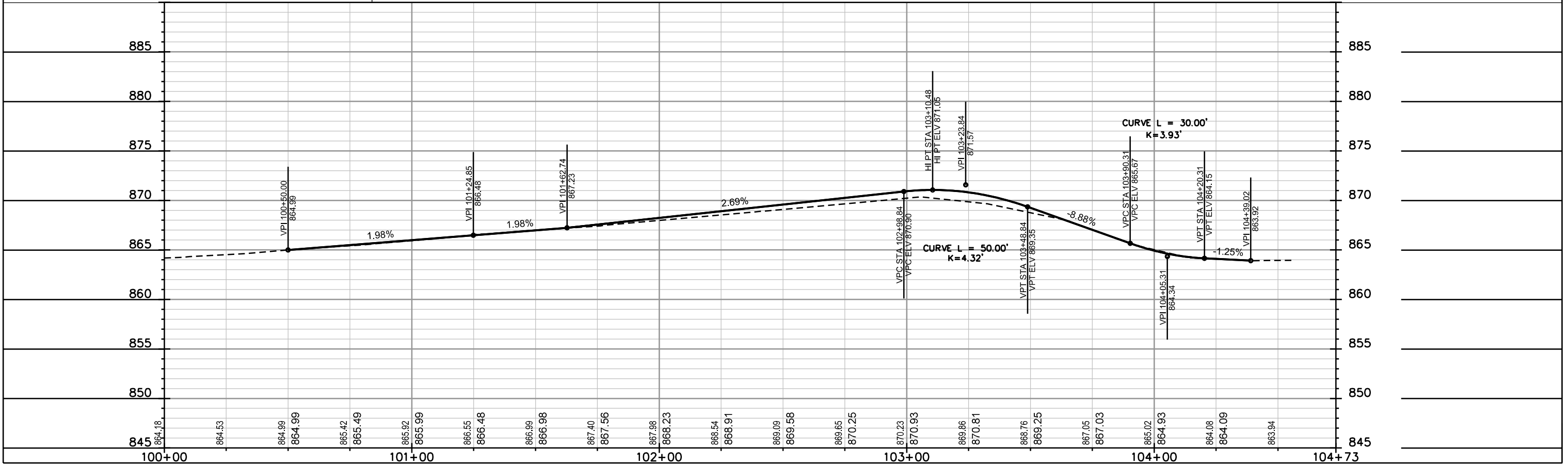
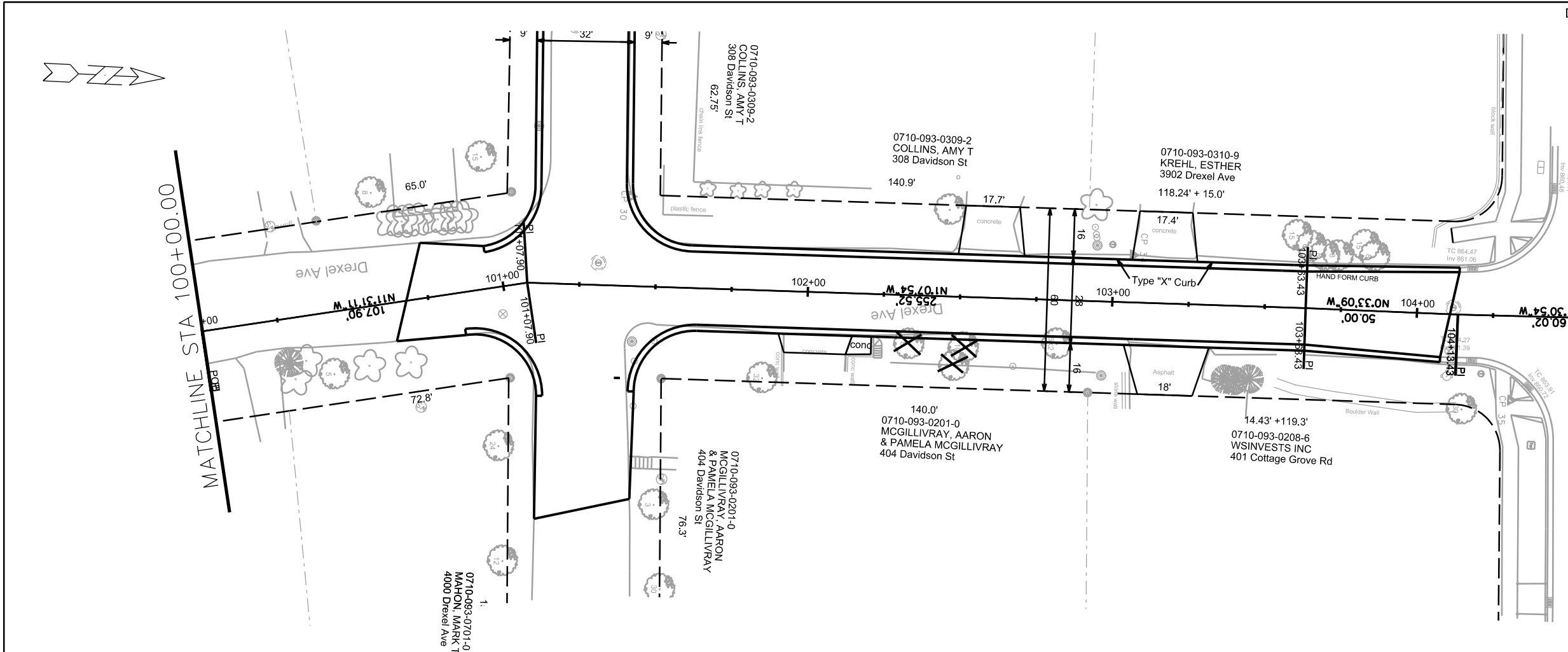


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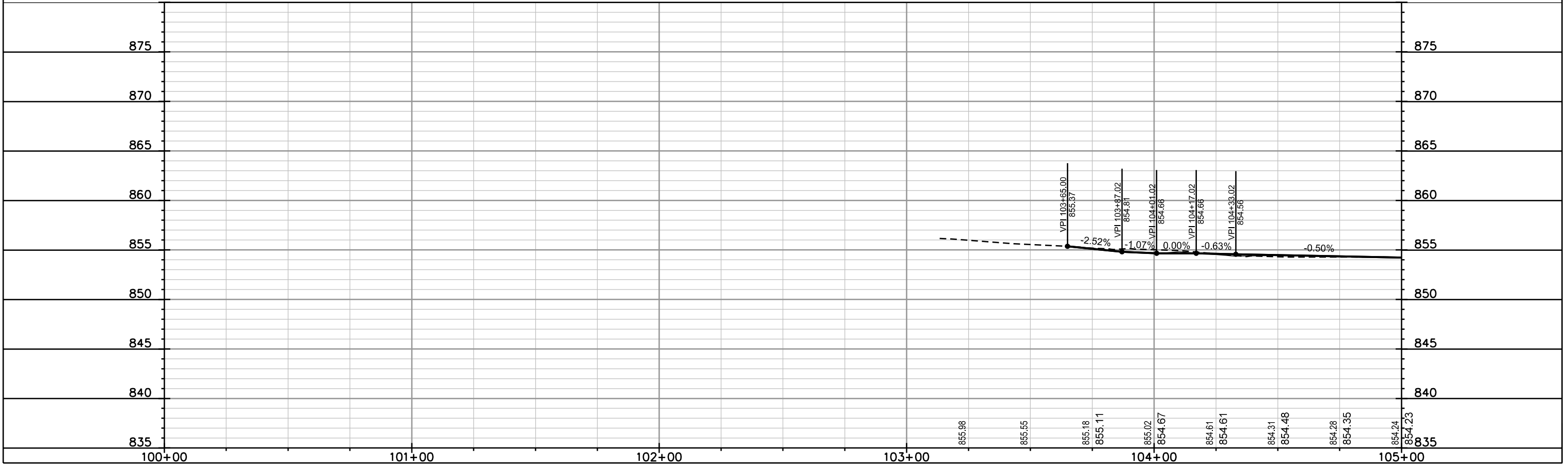
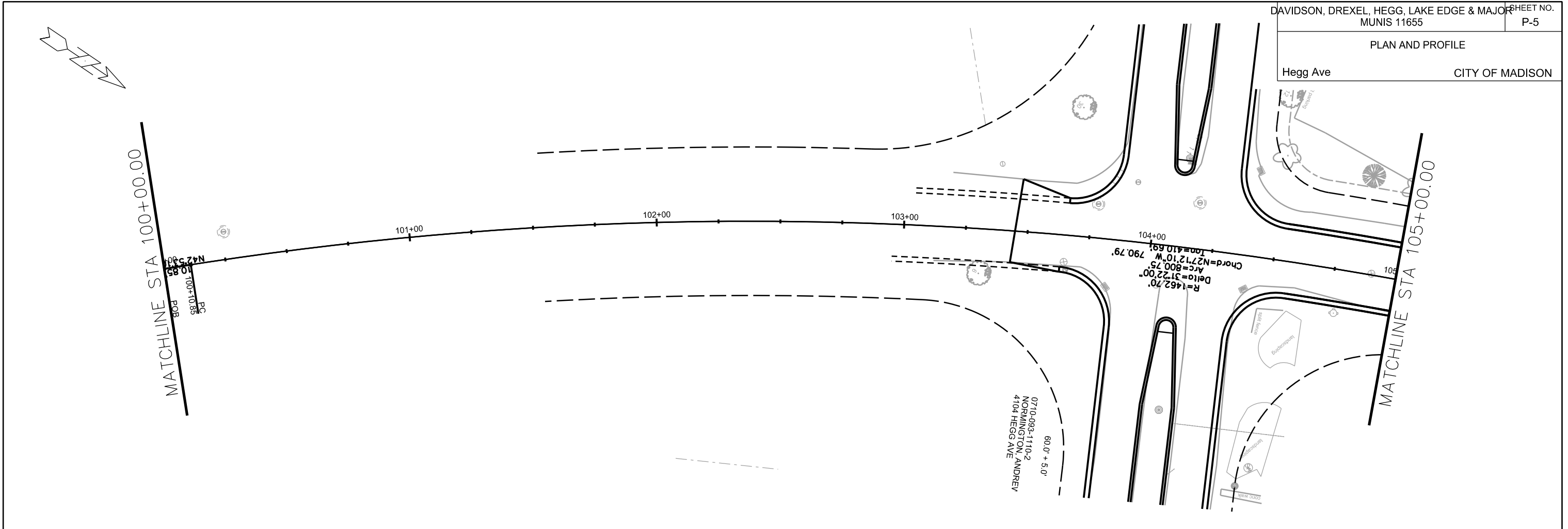
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

Hegg Ave CITY OF MADISON

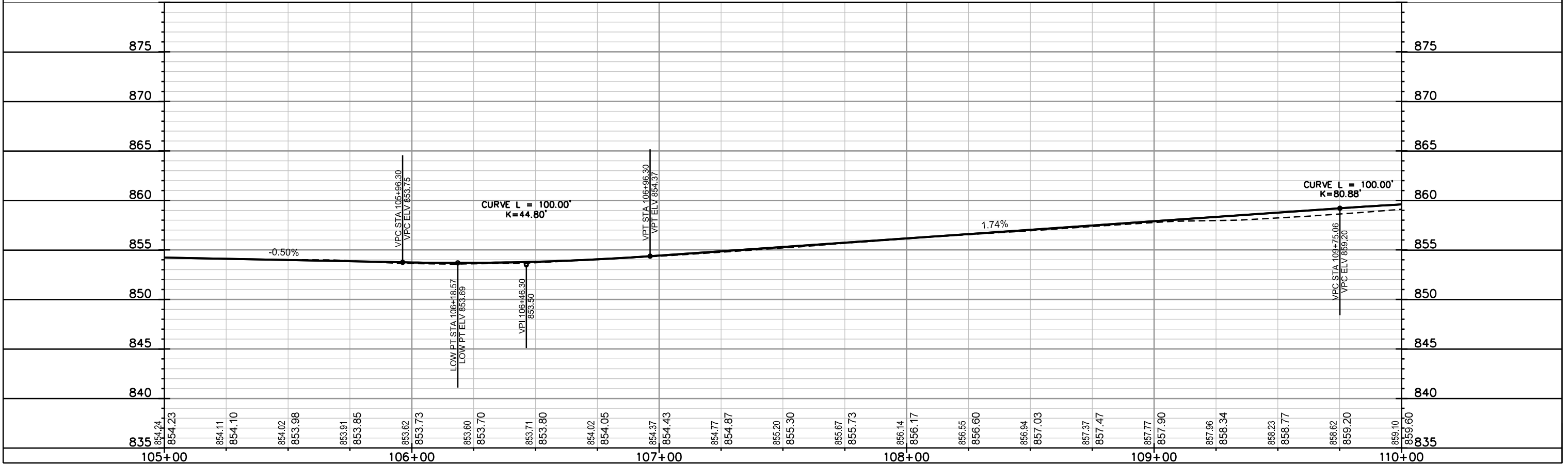
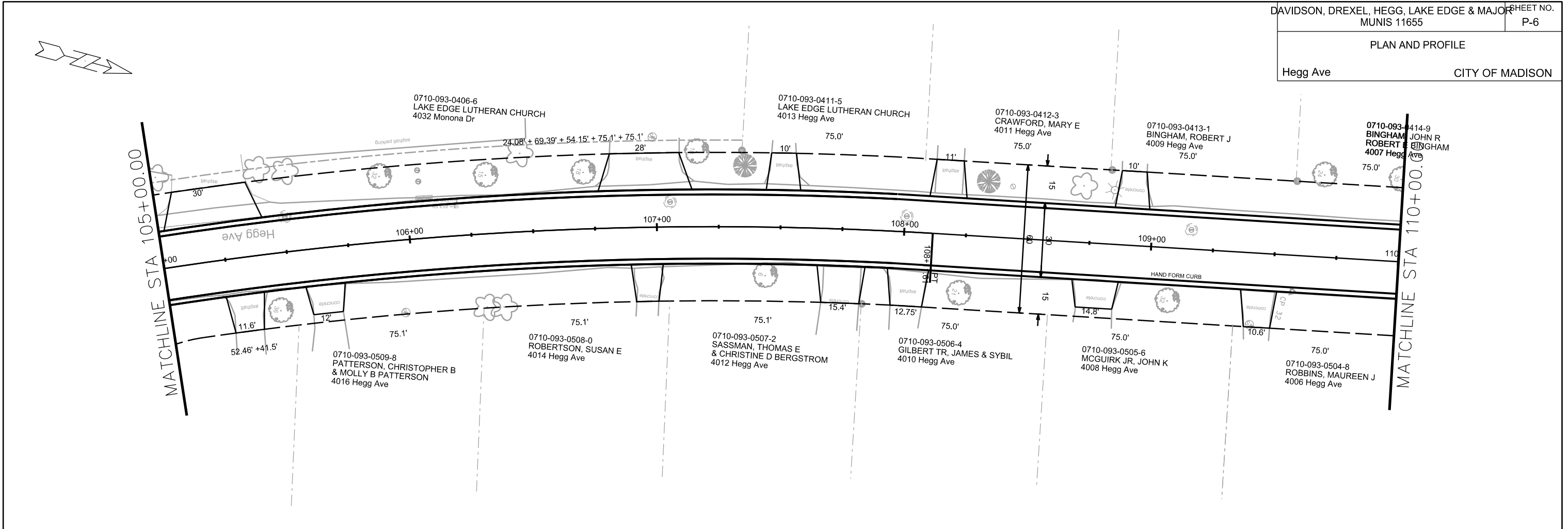


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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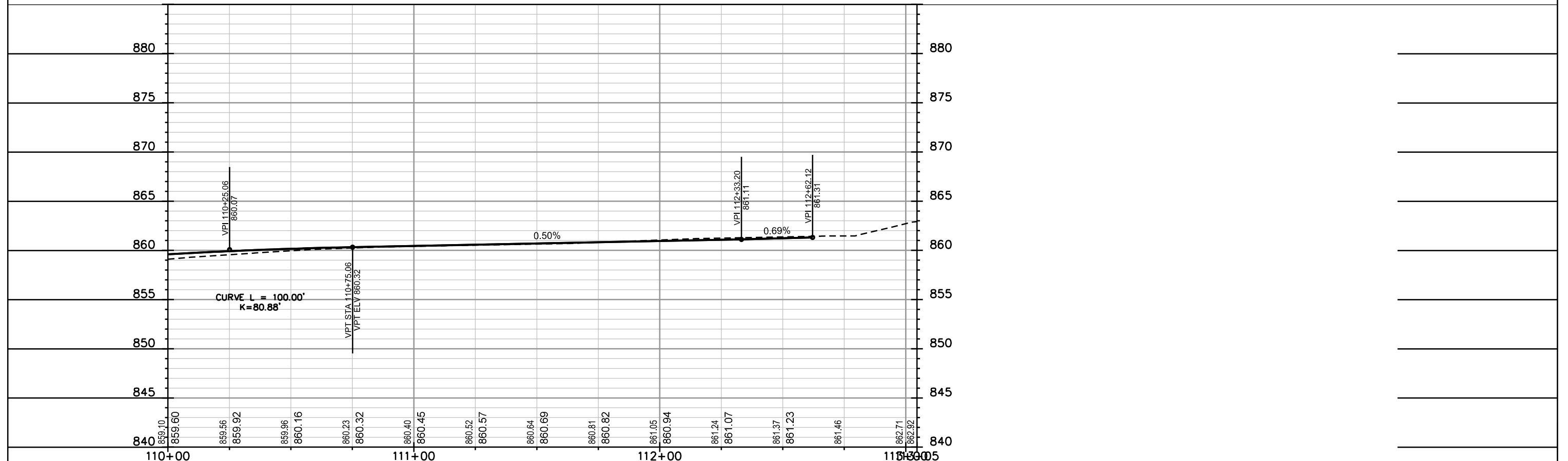
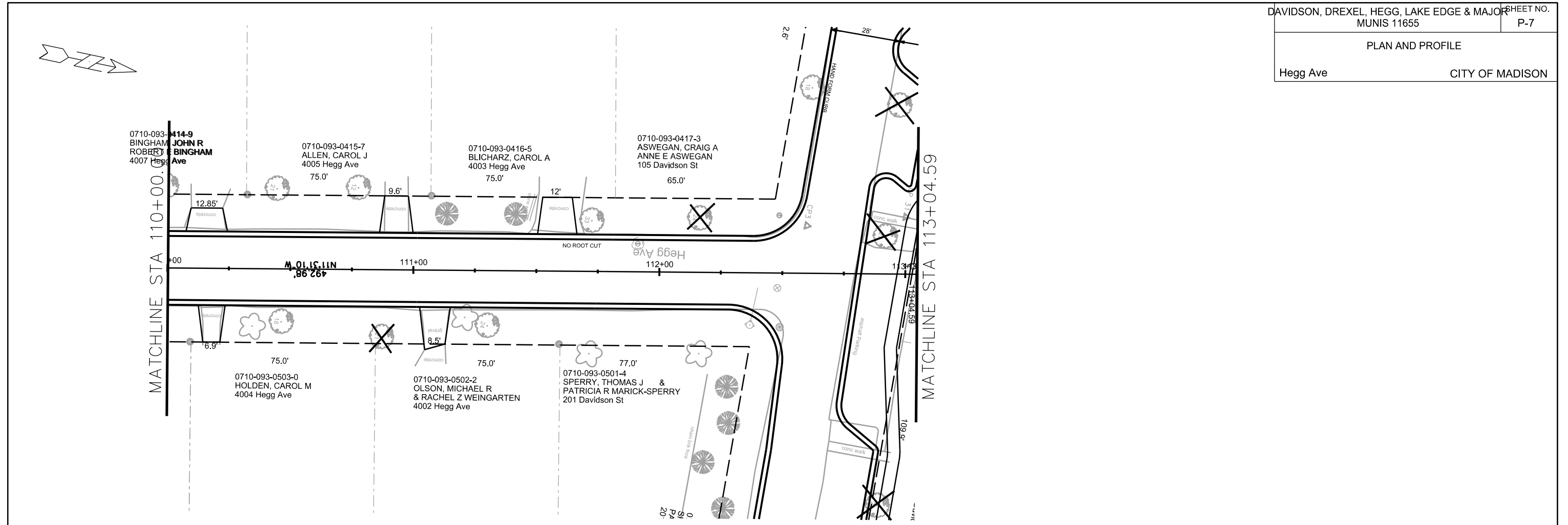
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

Hegg Ave CITY OF MADISON



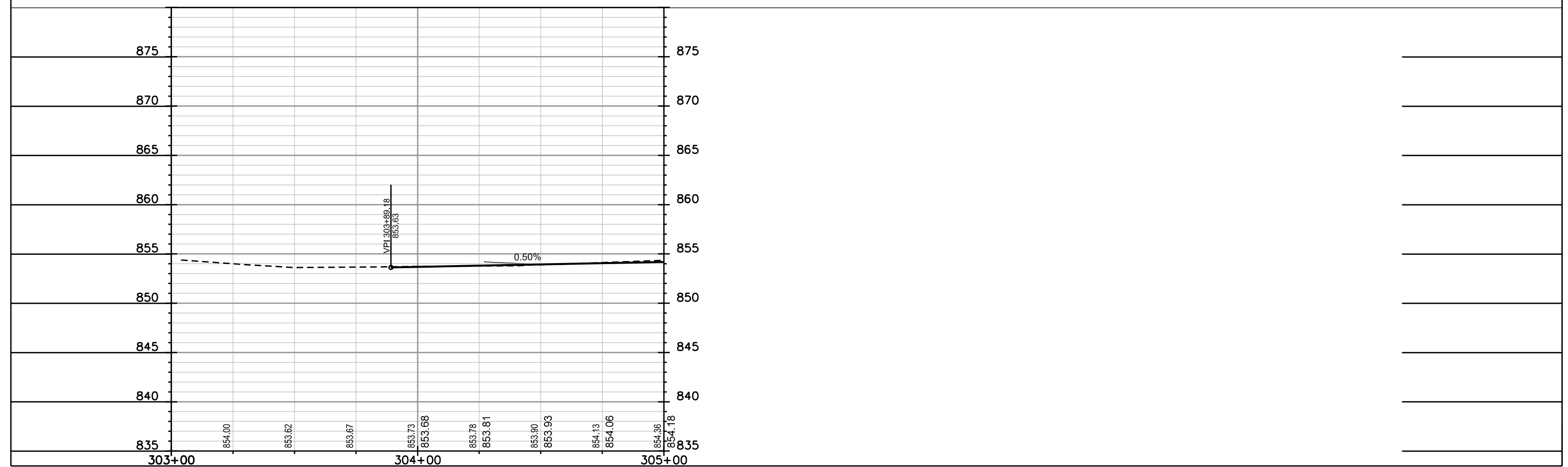
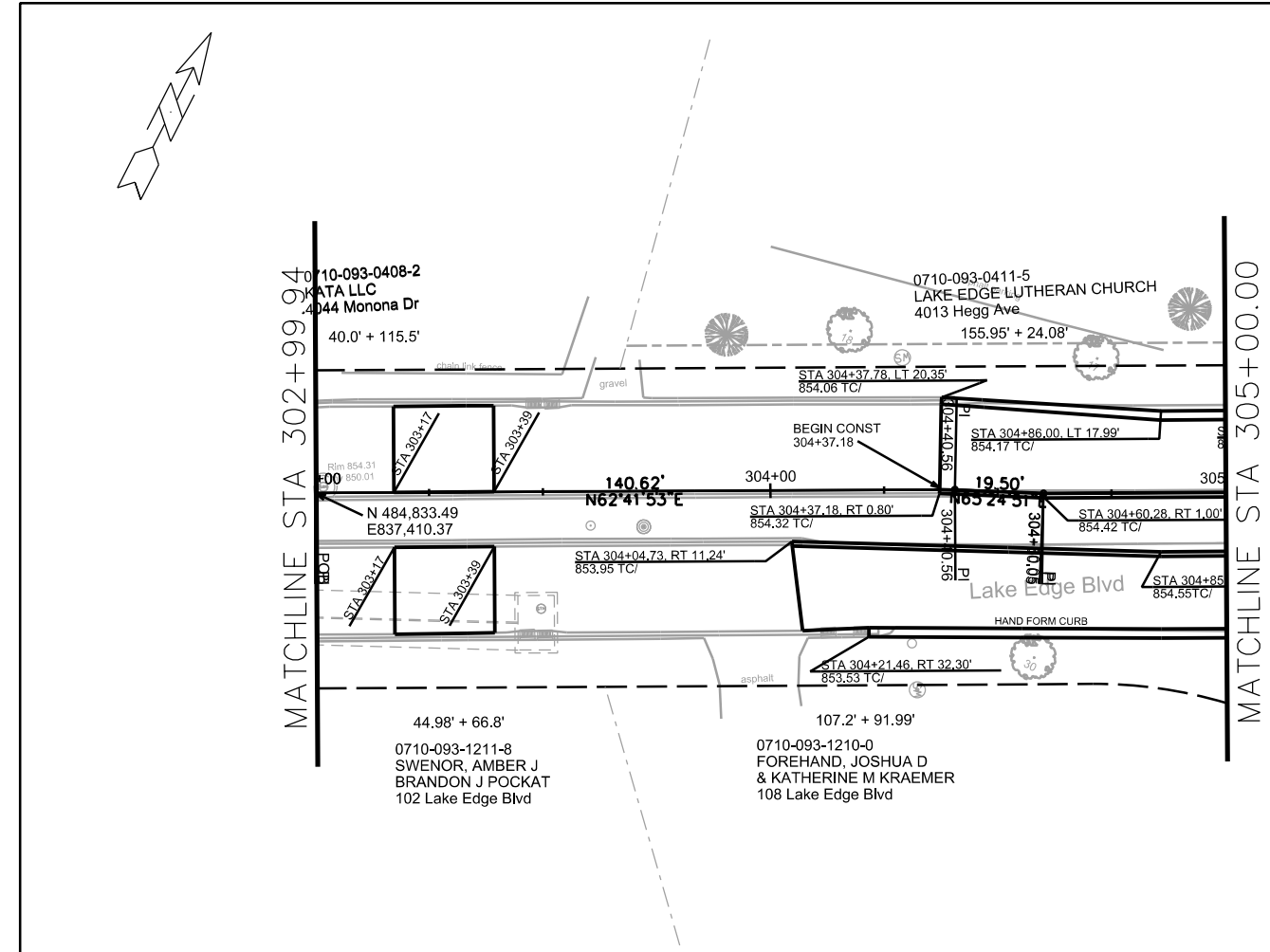
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PLAN AND PROFILE
Lake Edge Blvd CITY OF MADISON

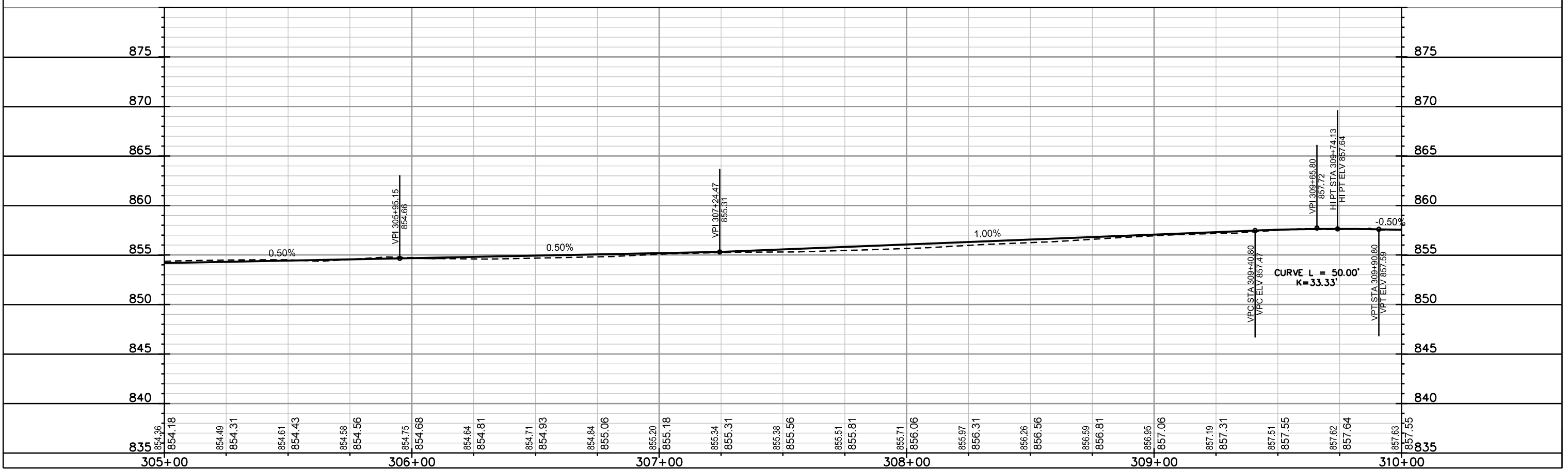
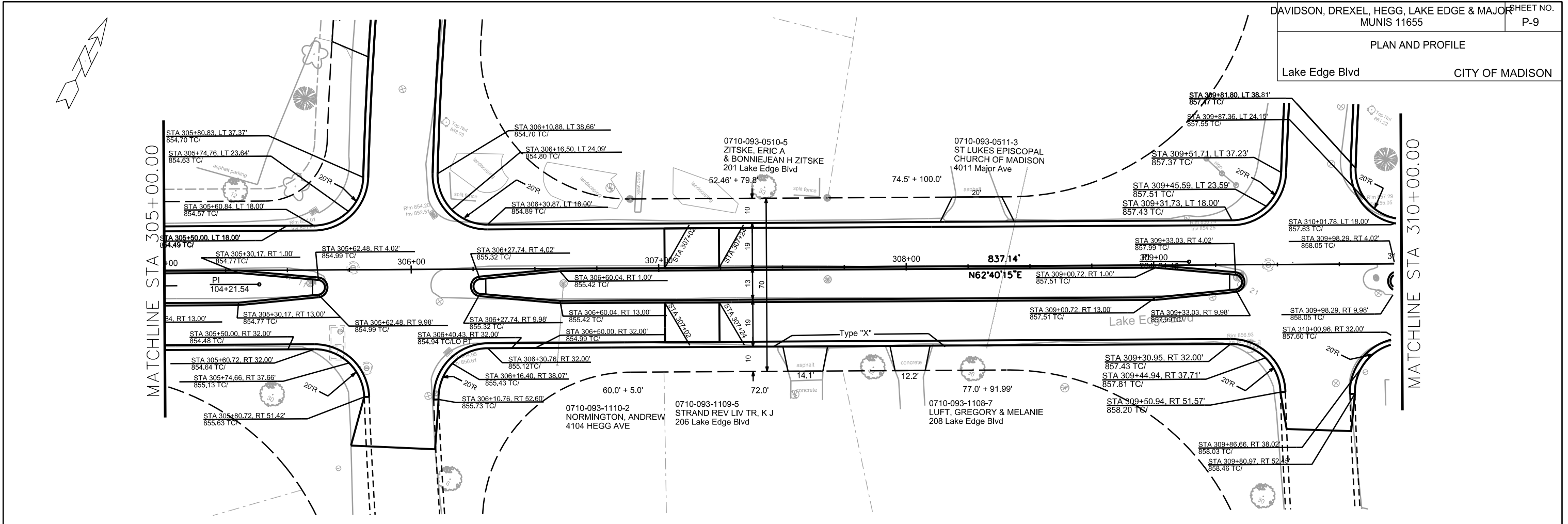


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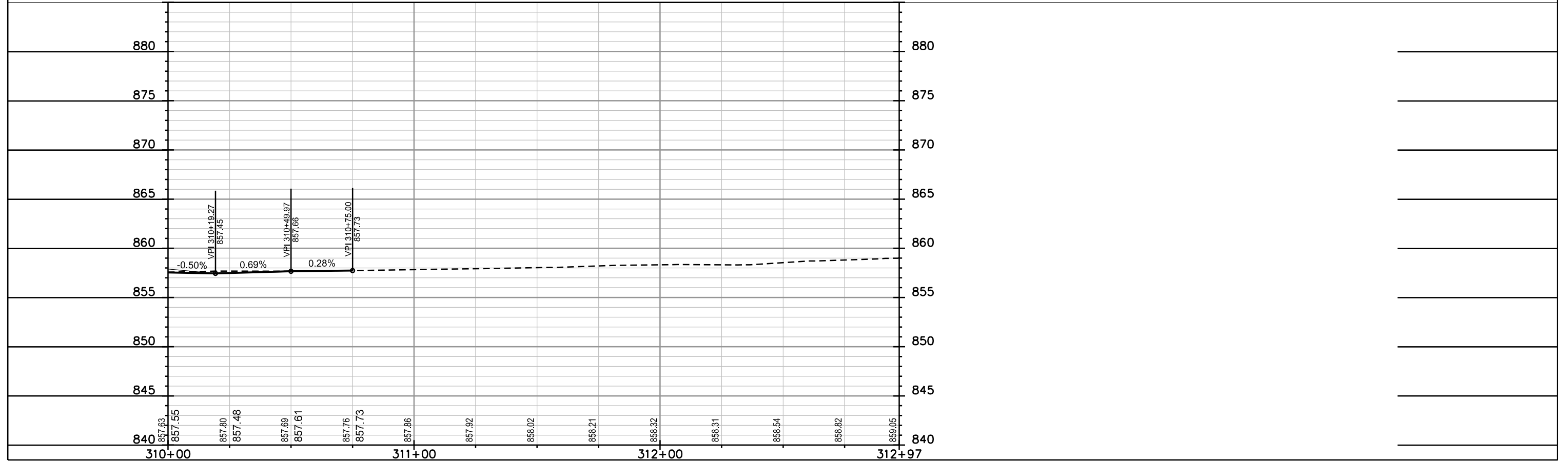
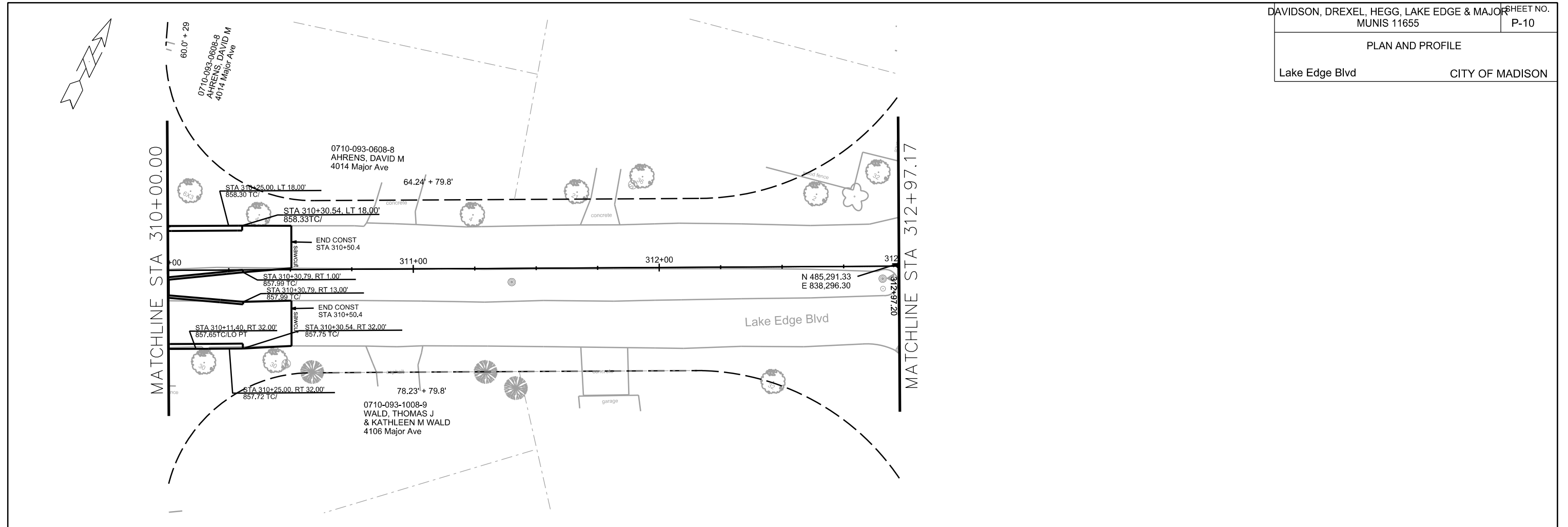
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PLAN AND PROFILE
Lake Edge Blvd CITY OF MADISON



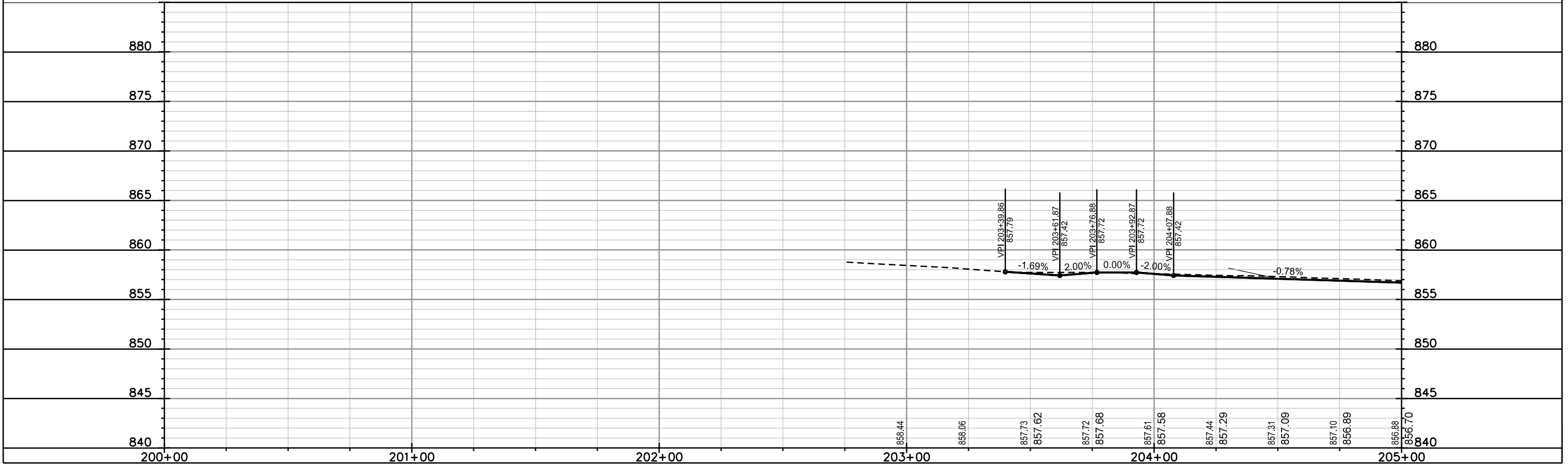
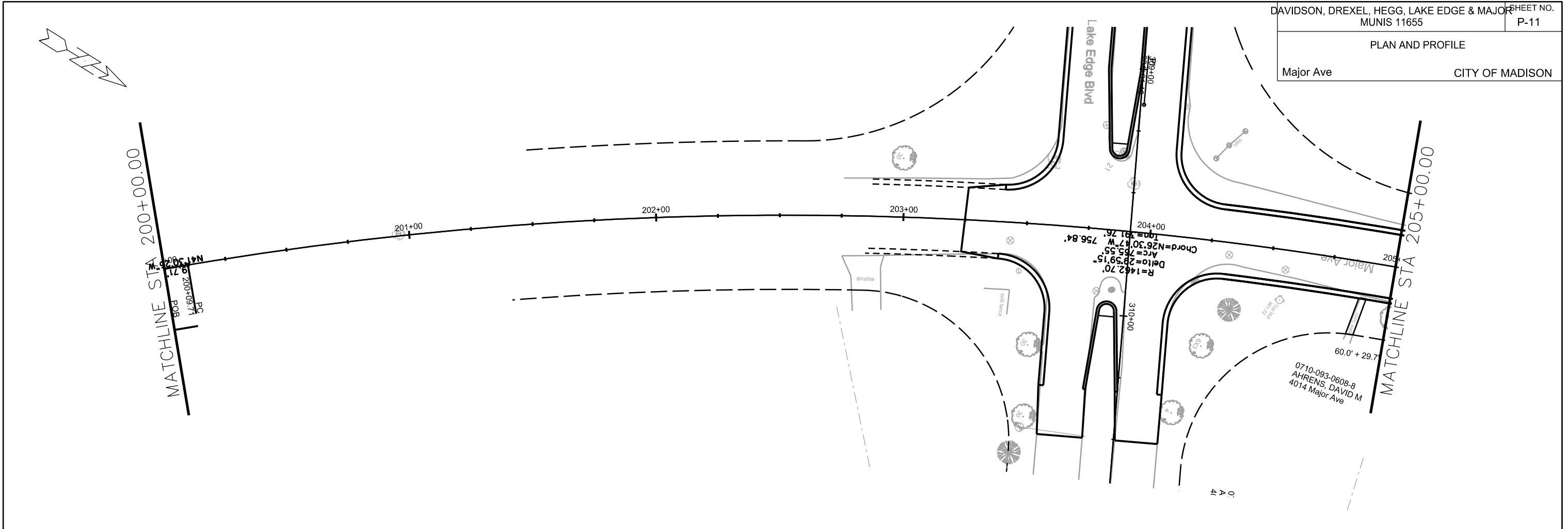
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
Major Ave CITY OF MADISON

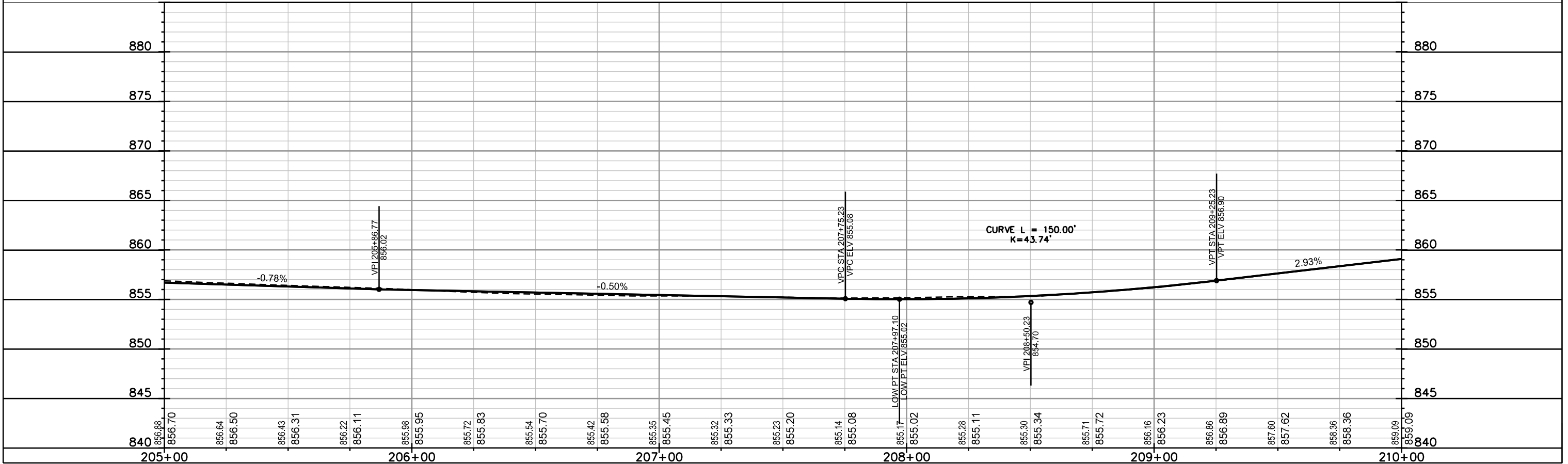
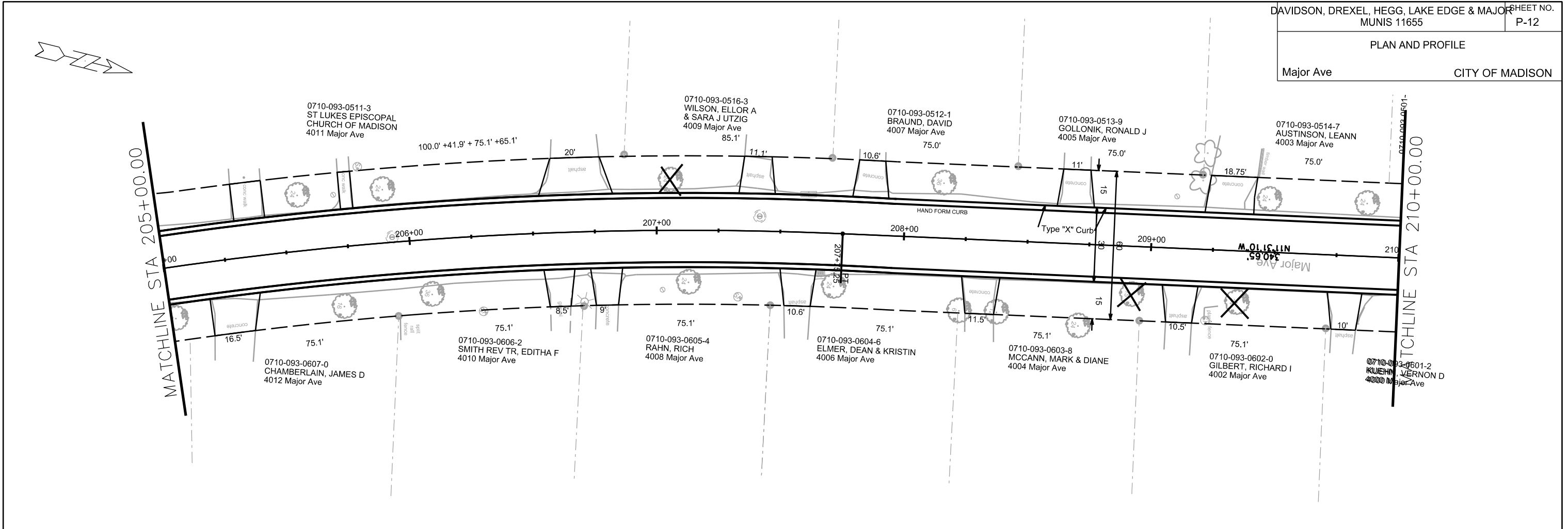


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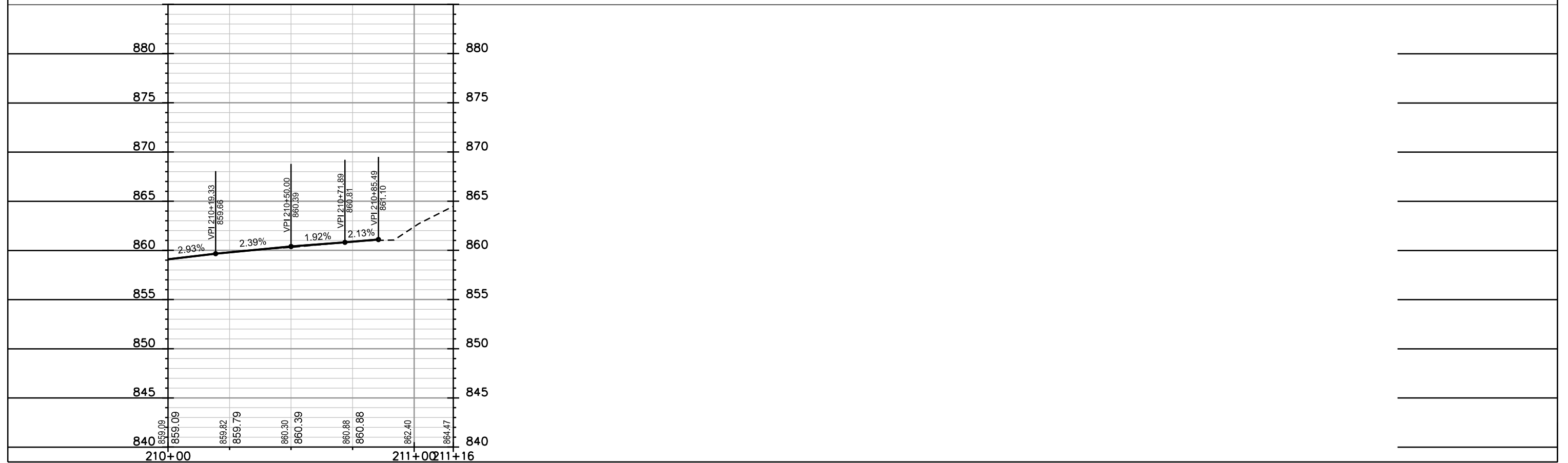
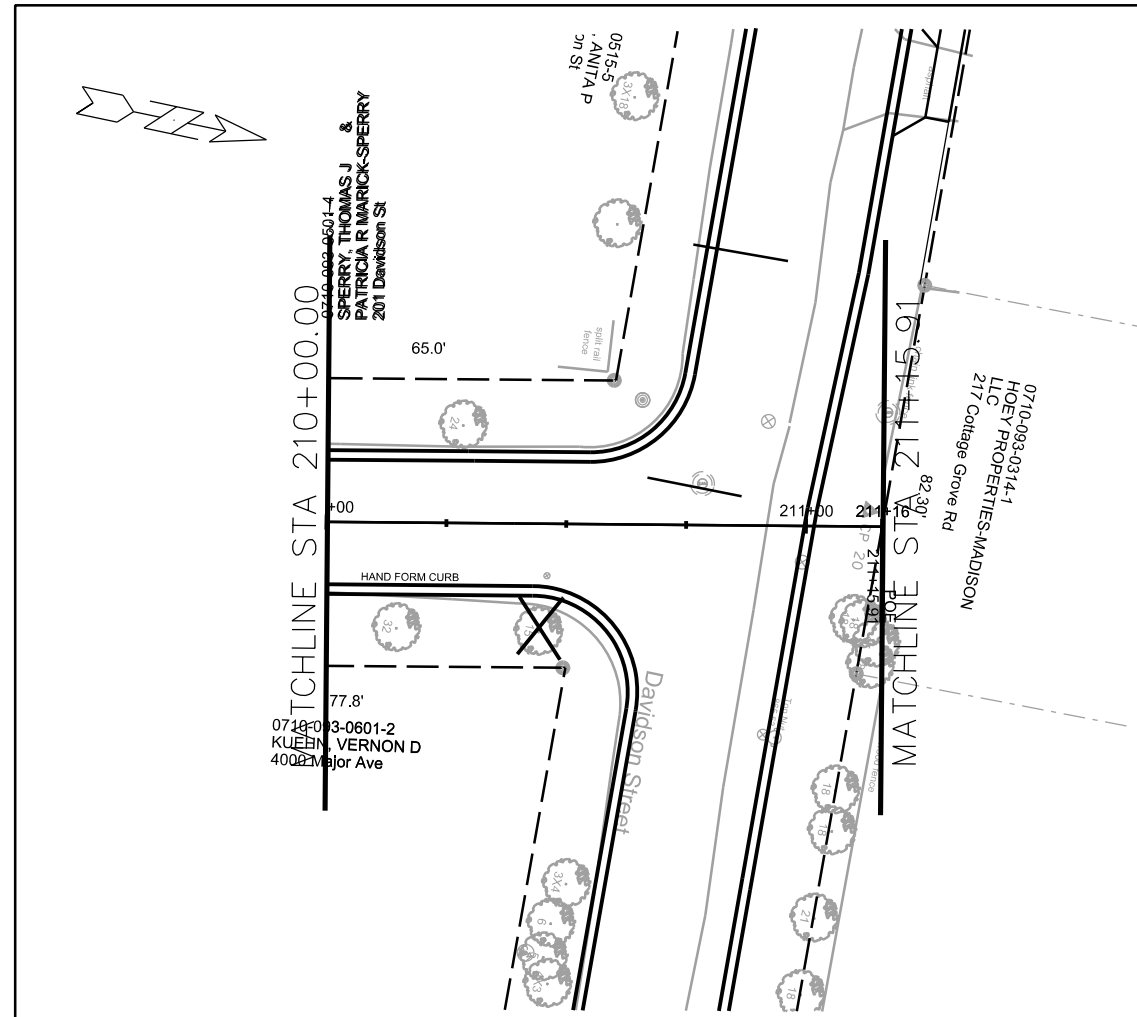
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PLAN AND PROFILE
Major Ave CITY OF MADISON

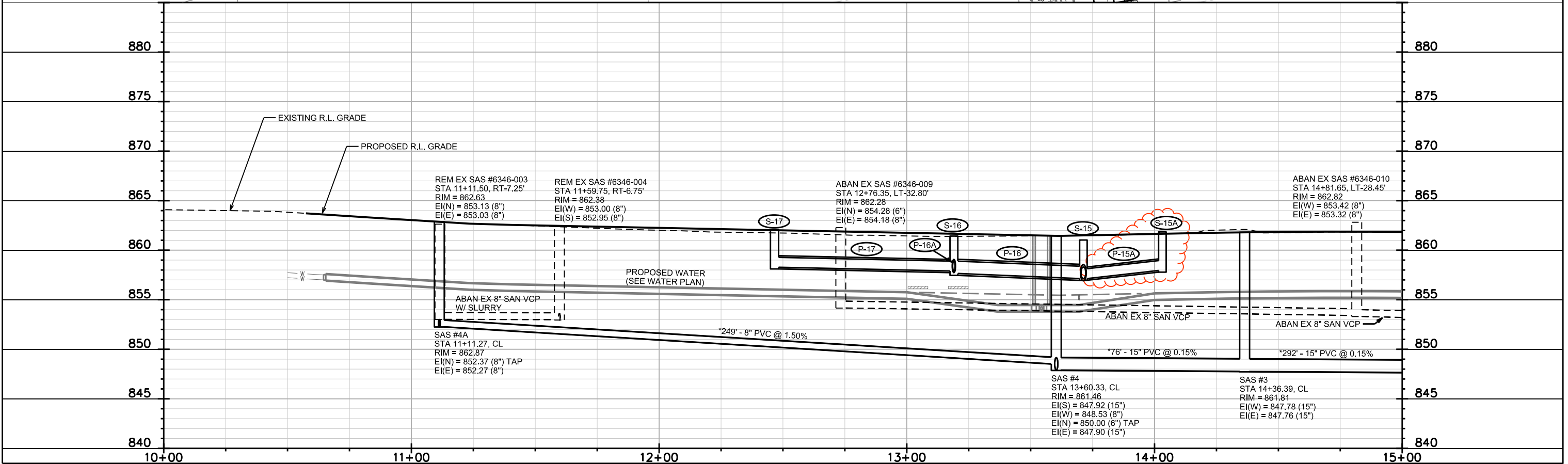
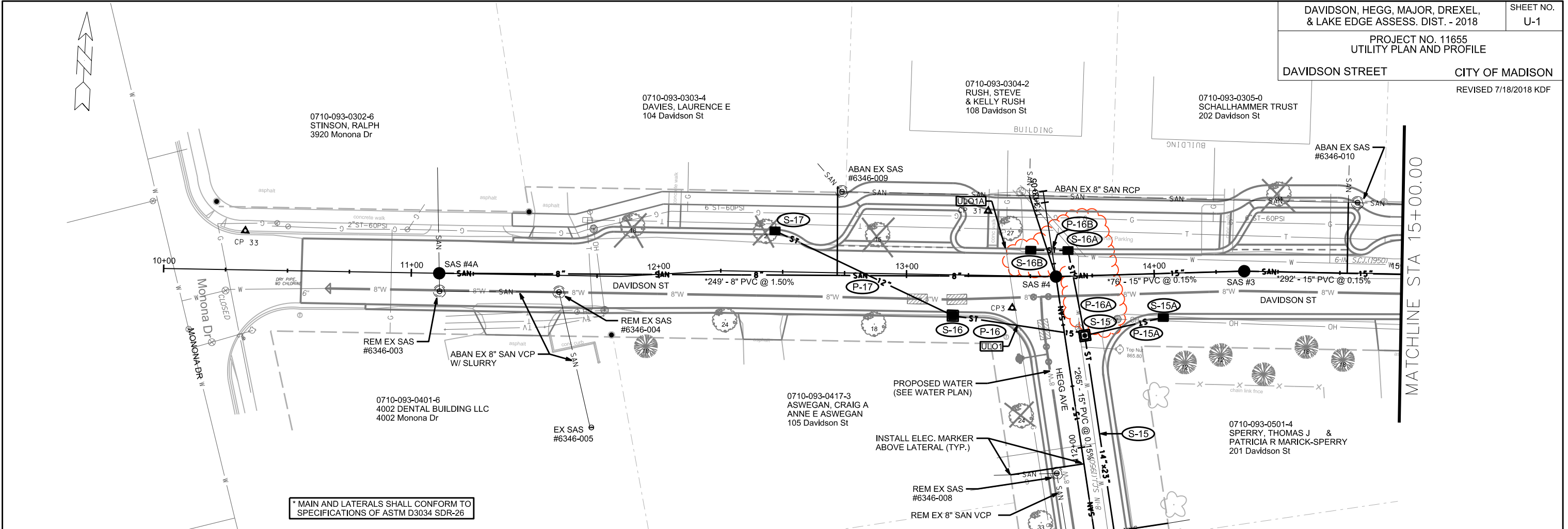


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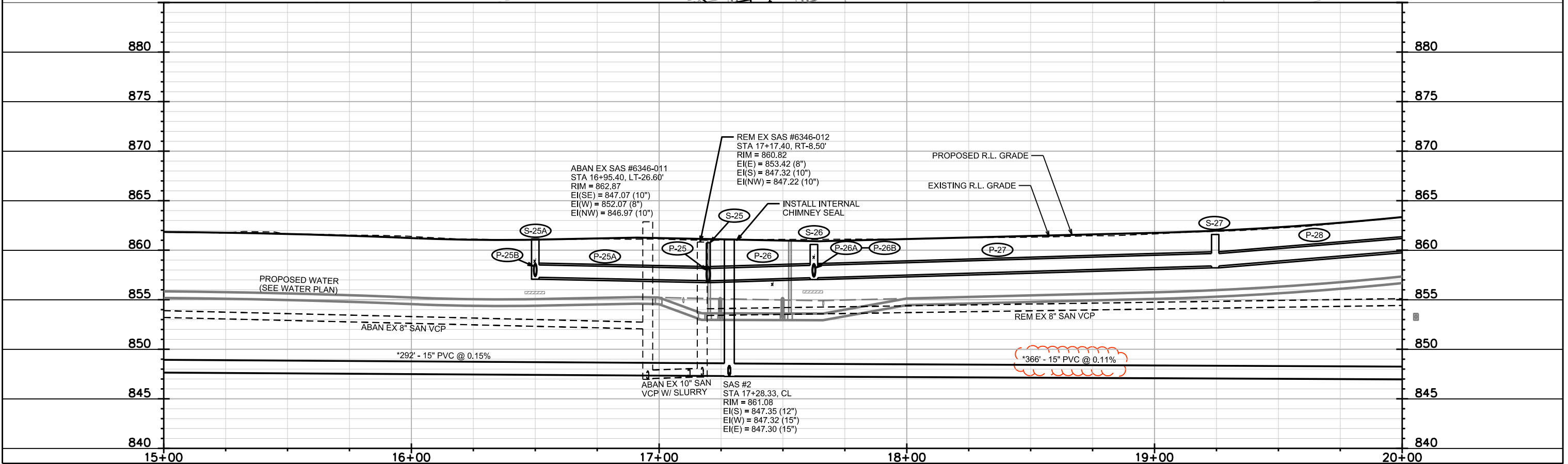
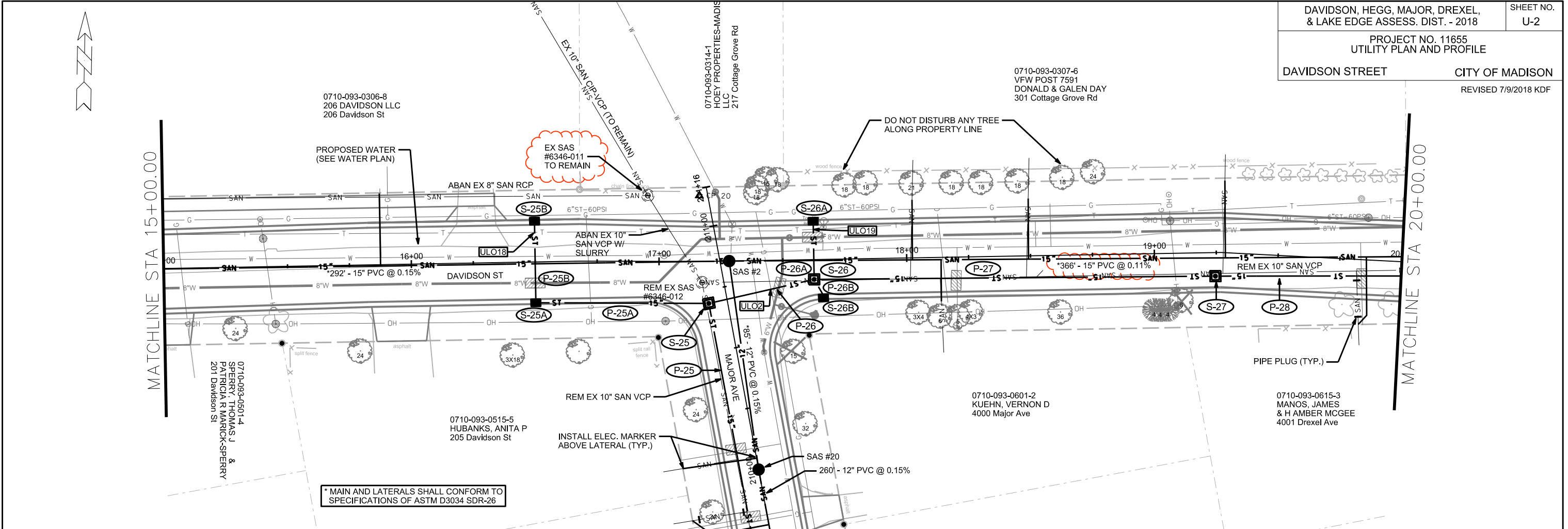


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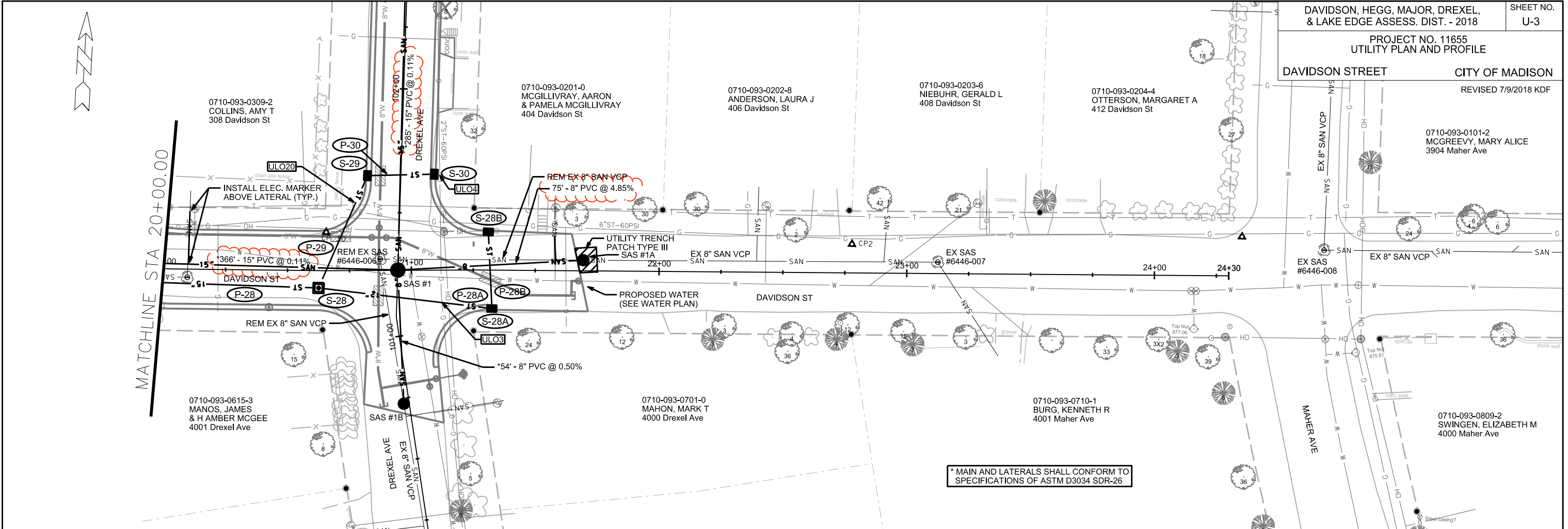
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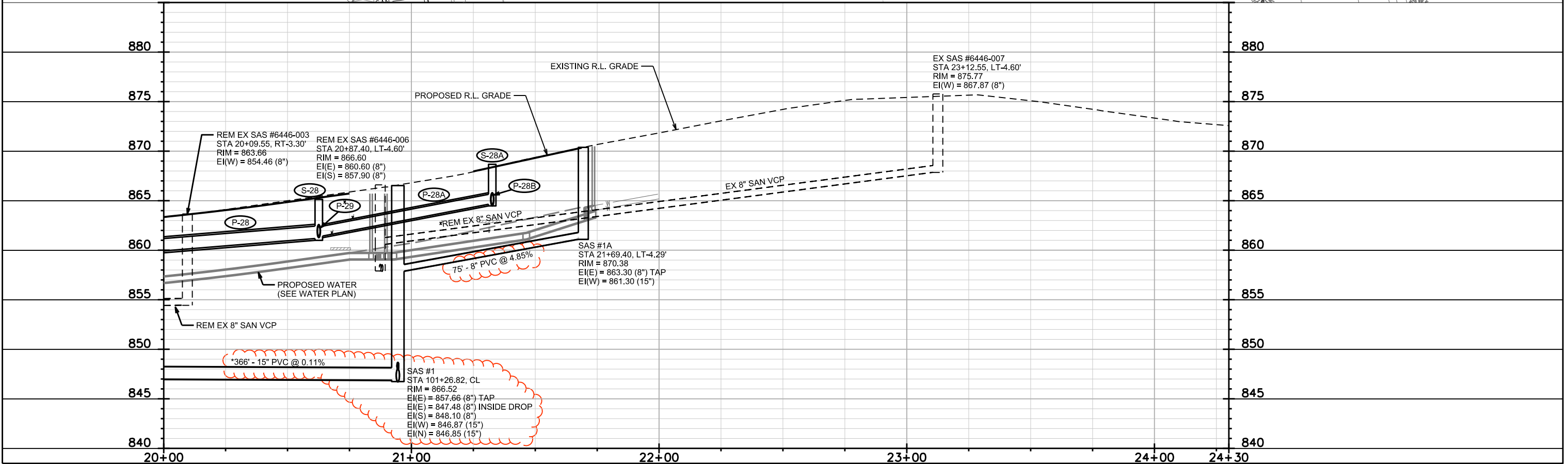
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



* MAIN AND LATERALS SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26



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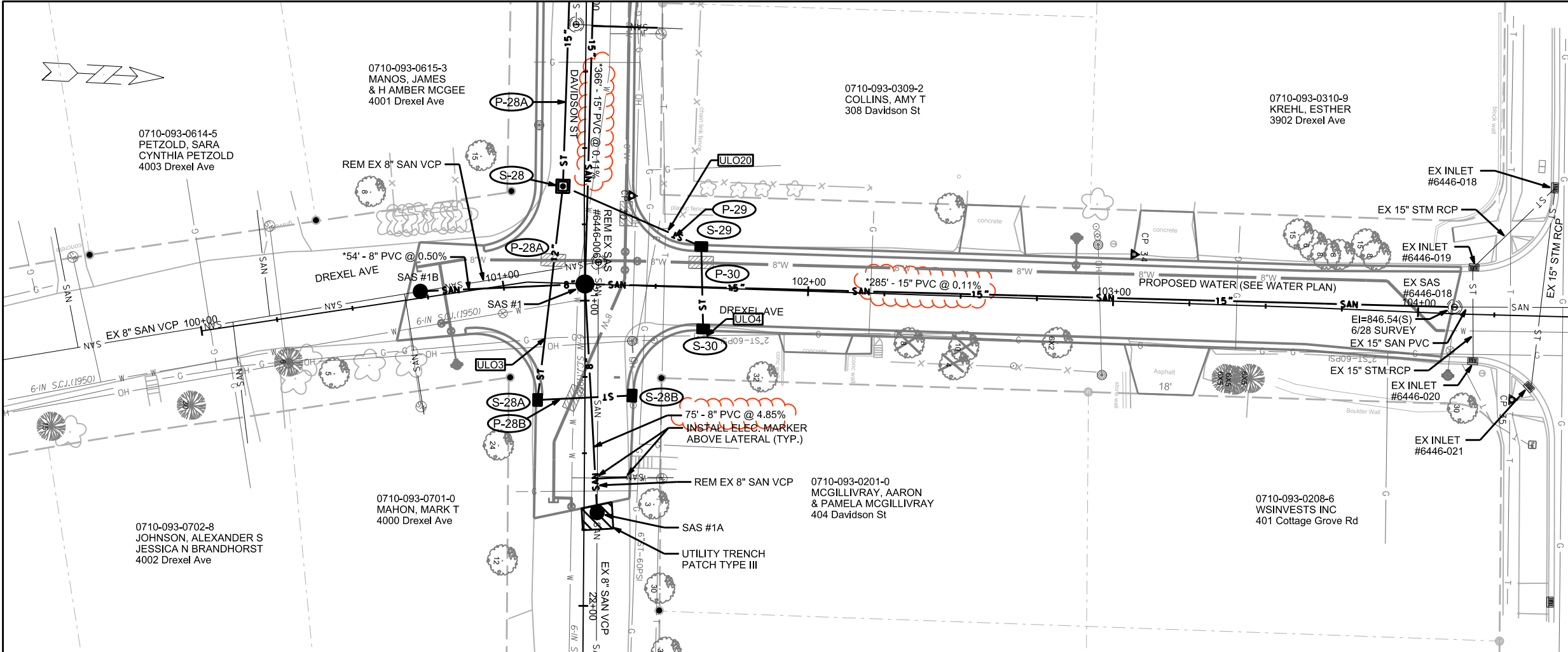


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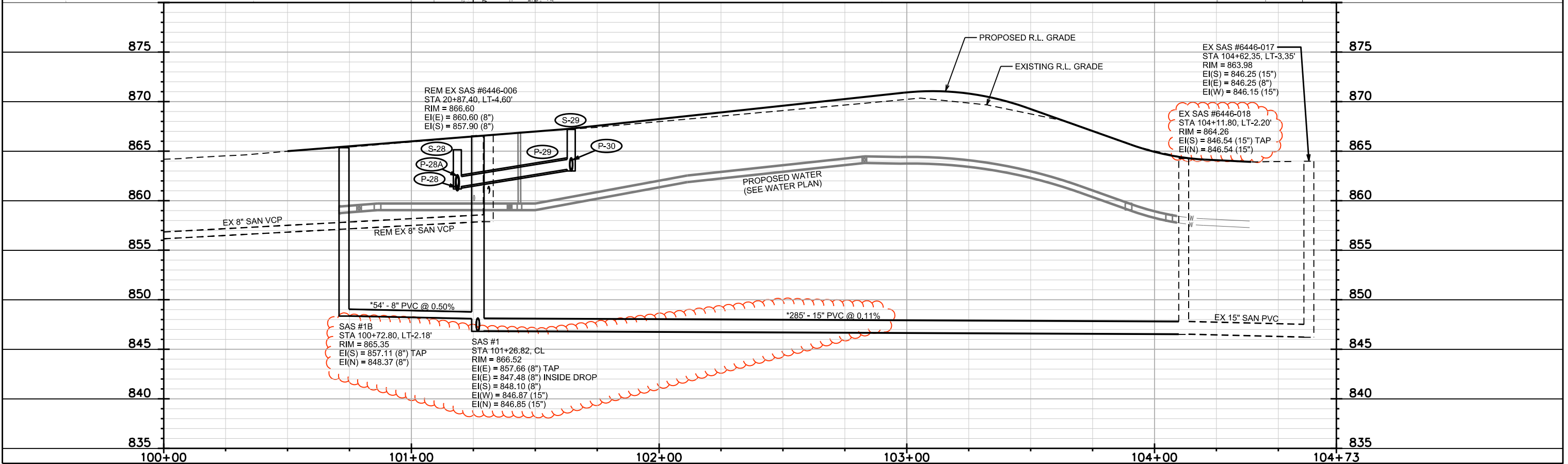
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SPECIFICATIONS OF ASTM D3034 SDR-26

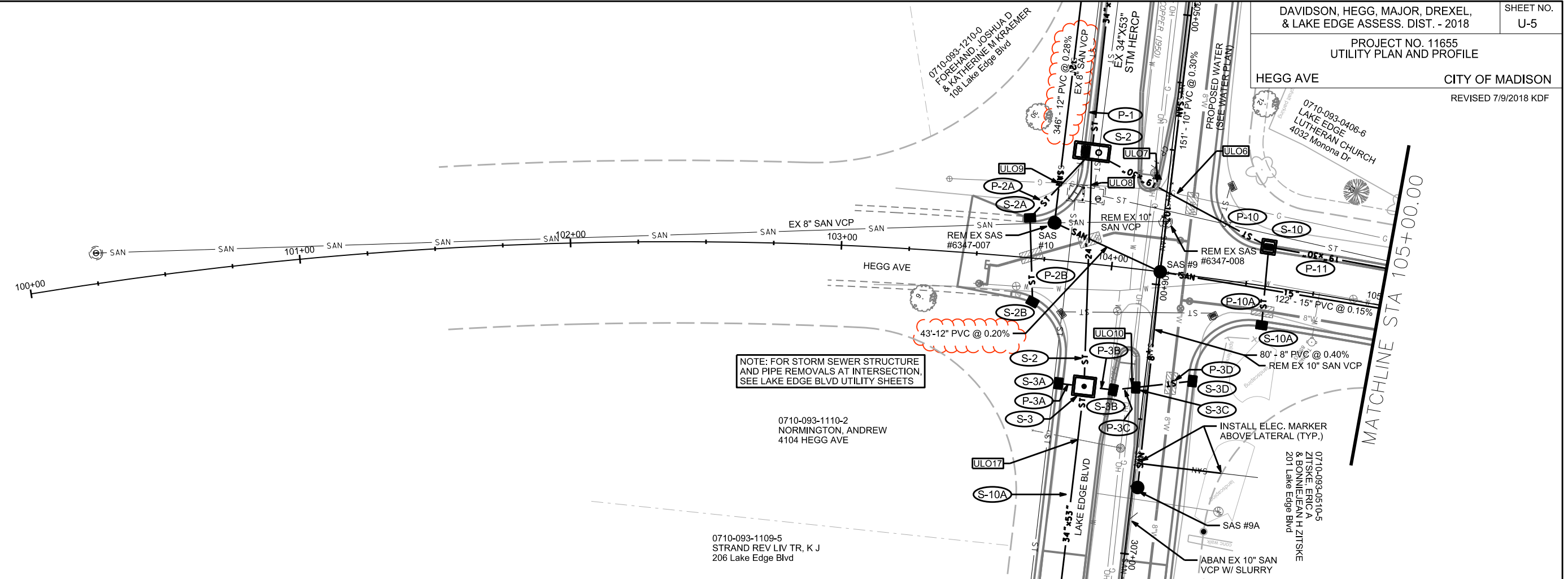
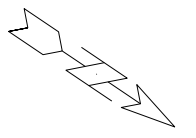


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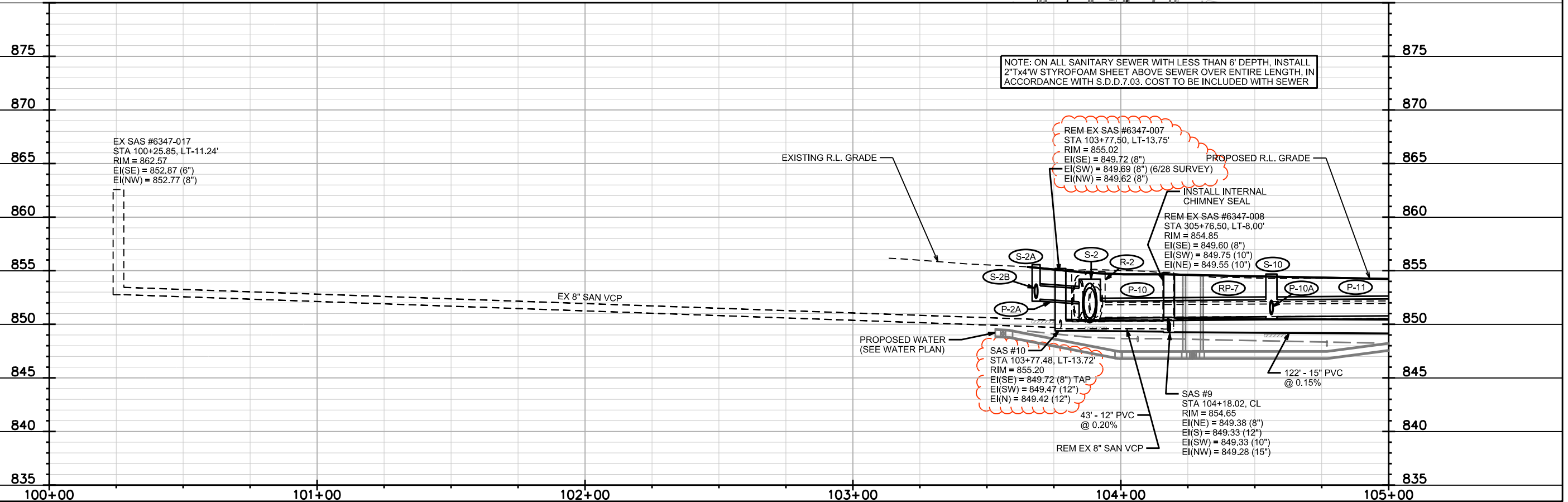
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: FOR STORM SEWER STRUCTURE AND PIPE REMOVALS AT INTERSECTION, SEE LAKE EDGE BLVD UTILITY SHEETS

NOTE: ON ALL SANITARY SEWER WITH LESS THAN 6' DEPTH, INSTALL 2"X4"W STYROFOAM SHEET ABOVE SEWER OVER ENTIRE LENGTH, IN ACCORDANCE WITH S.D.D.7.03. COST TO BE INCLUDED WITH SEWER

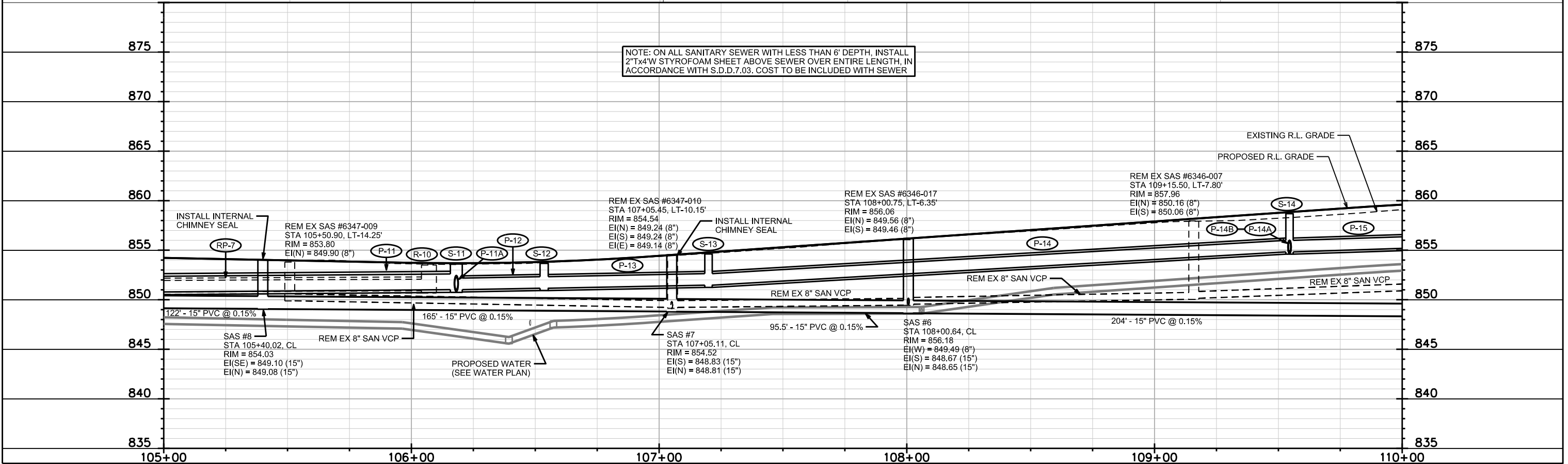
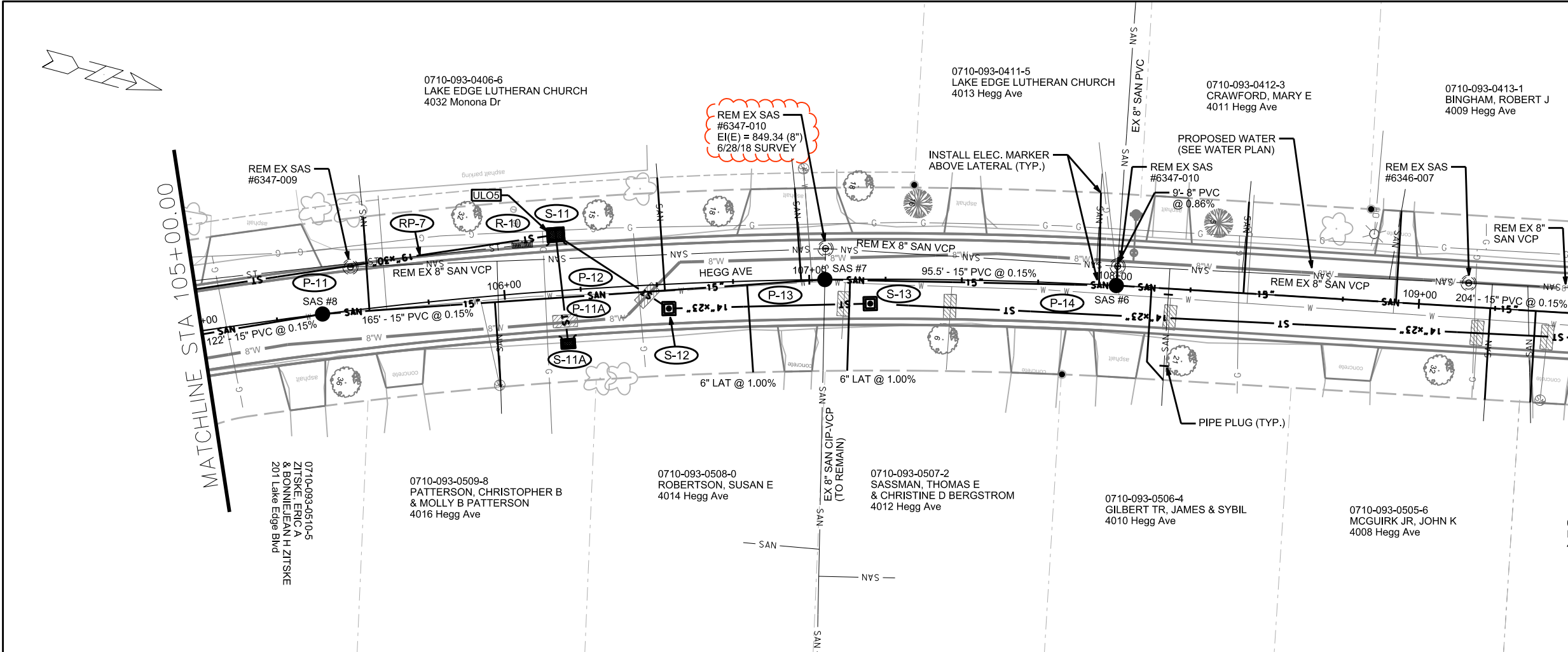


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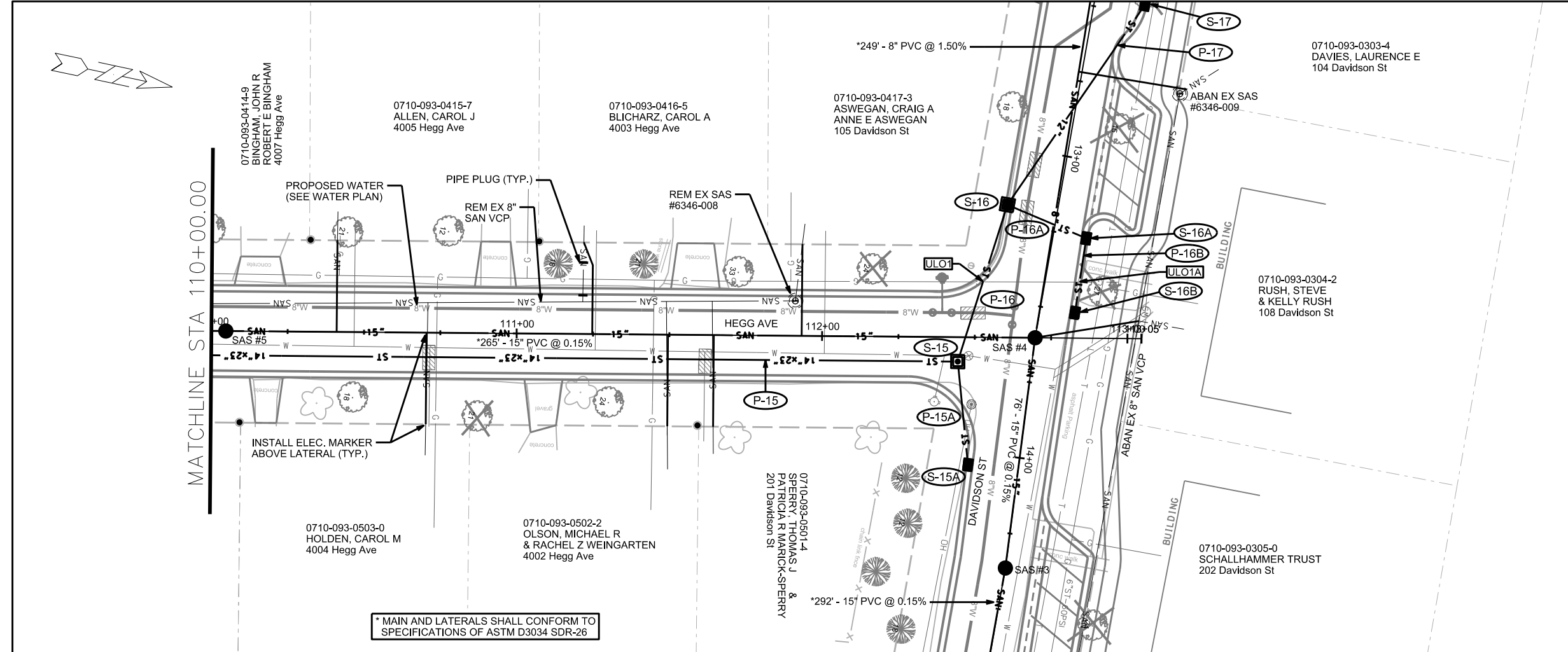
NOTE: ON ALL SANITARY SEWER WITH LESS THAN 6' DEPTH, INSTALL 2'x4'W STYROFOAM SHEET ABOVE SEWER OVER ENTIRE LENGTH, IN ACCORDANCE WITH S.D.D.7.03. COST TO BE INCLUDED WITH SEWER

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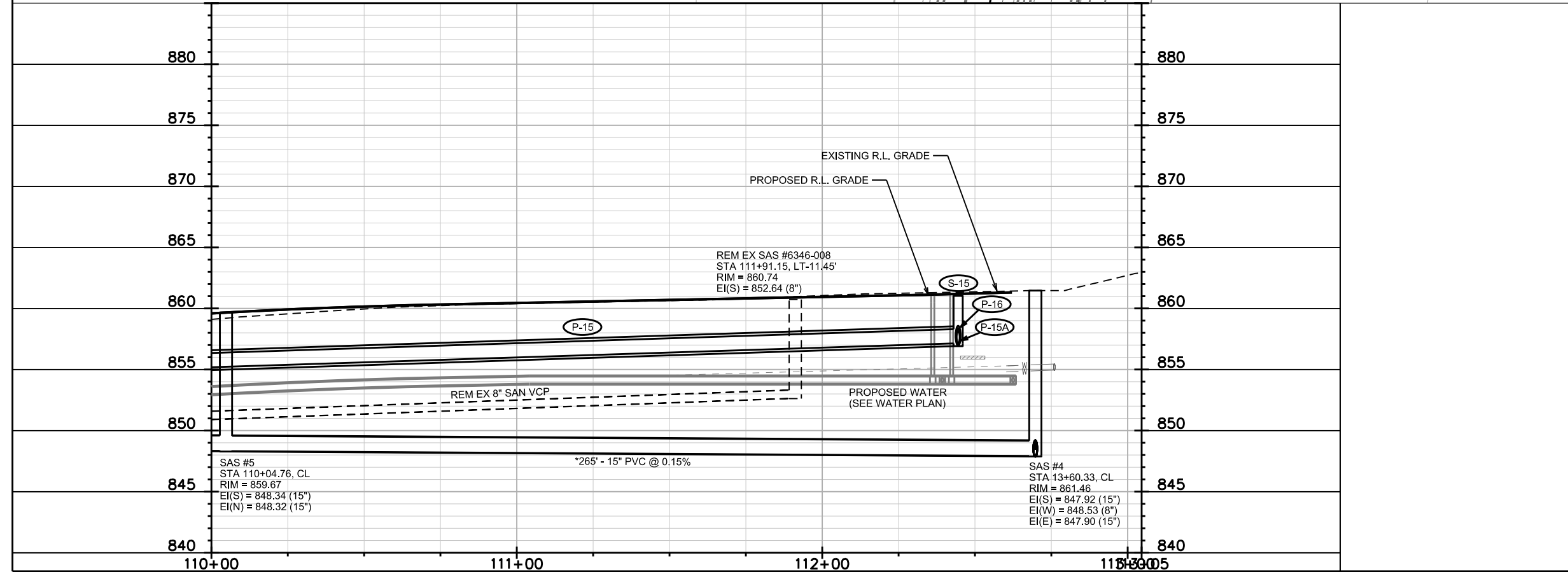
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MAIN AND LATERALS SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

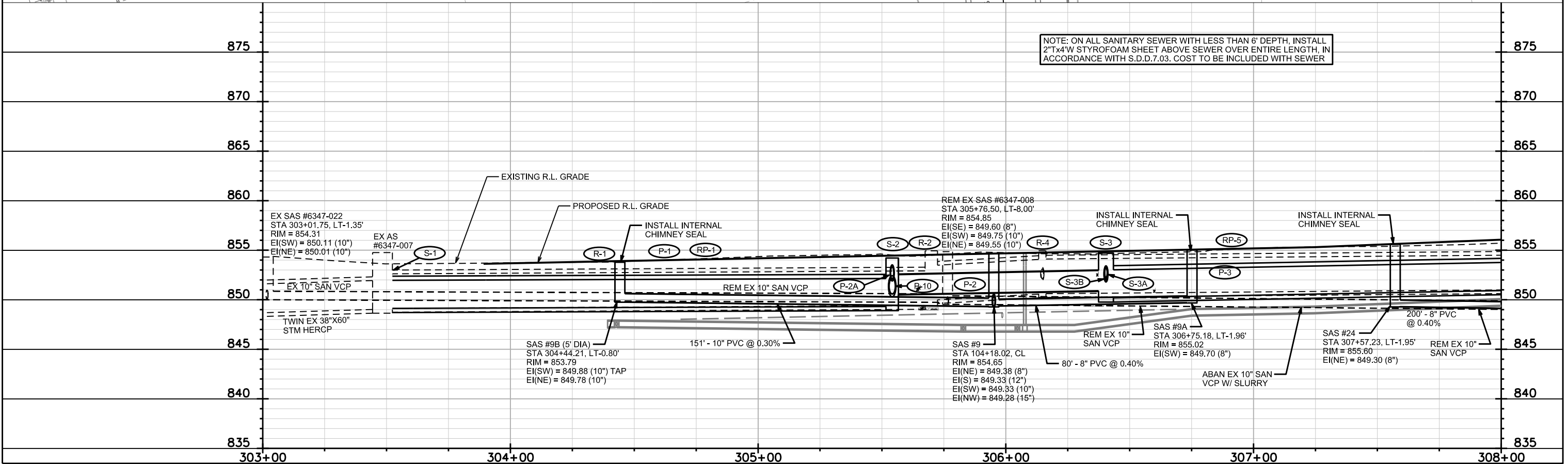
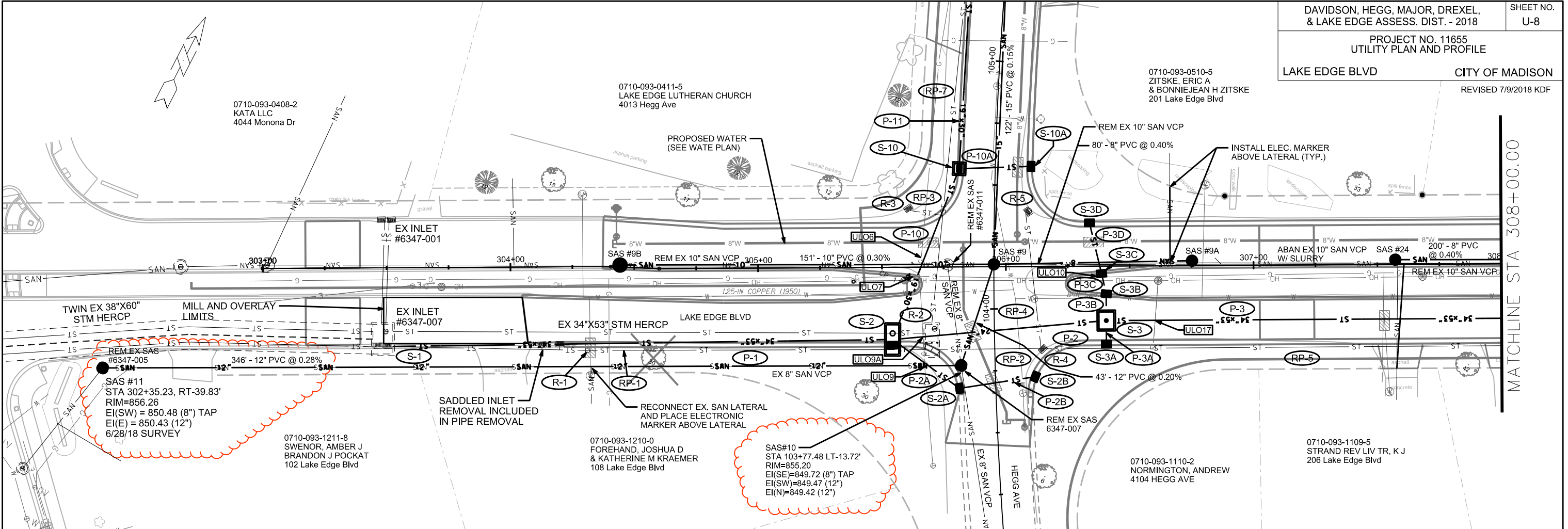


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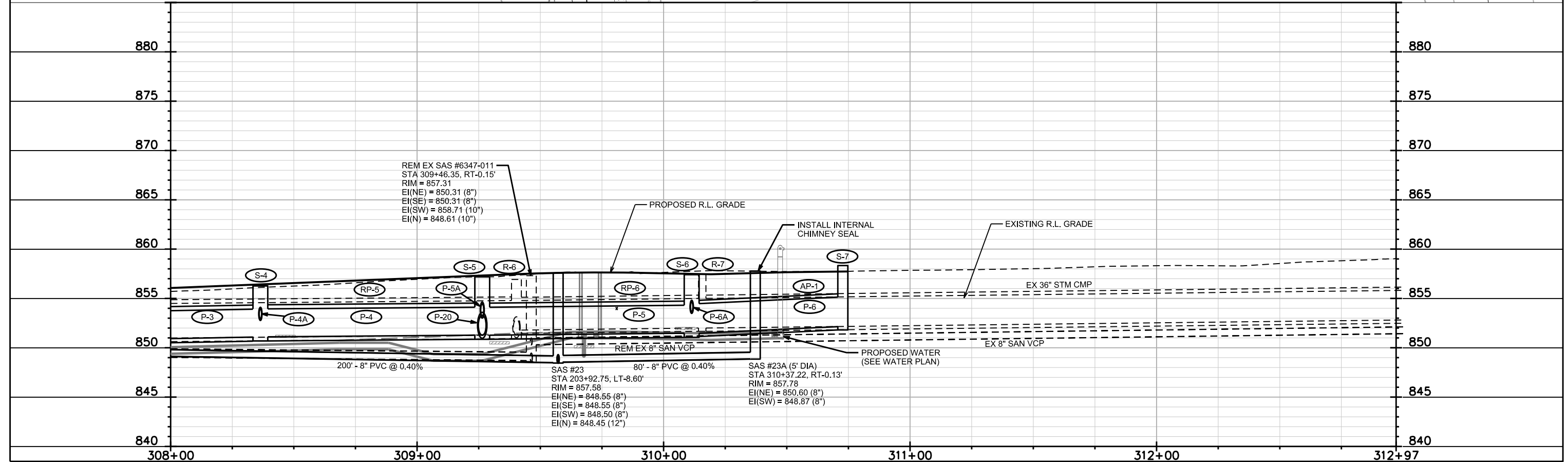
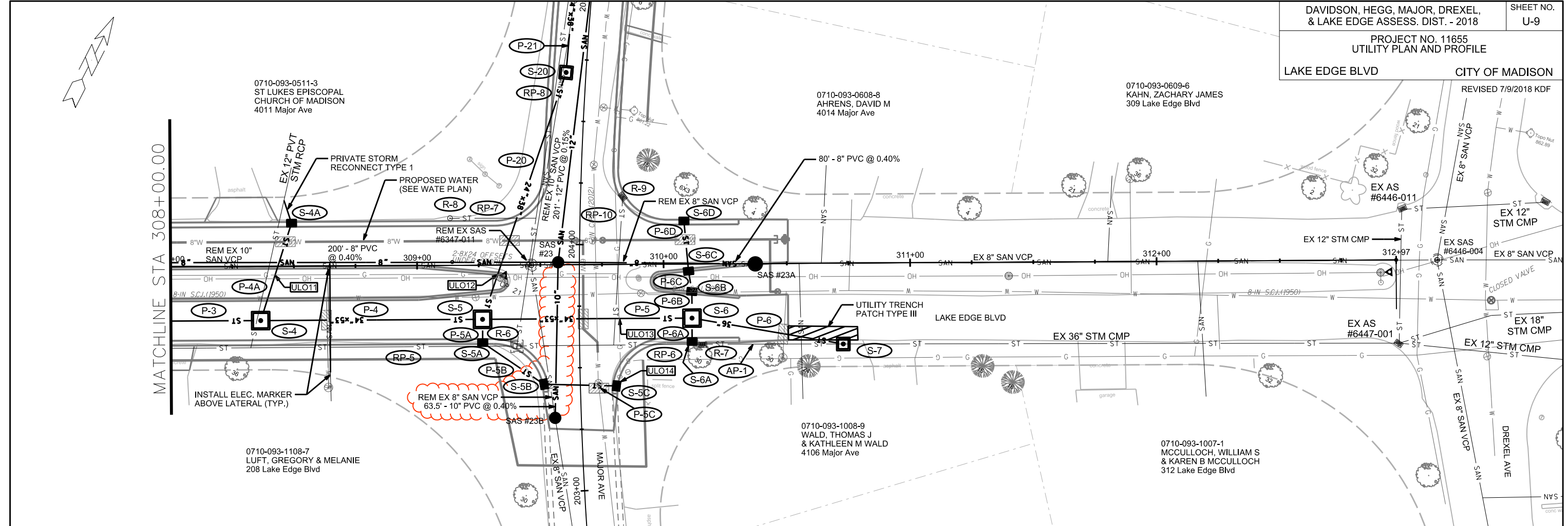
NOTE: ON ALL SANITARY SEWER WITH LESS THAN 6' DEPTH, INSTALL 2\"/>

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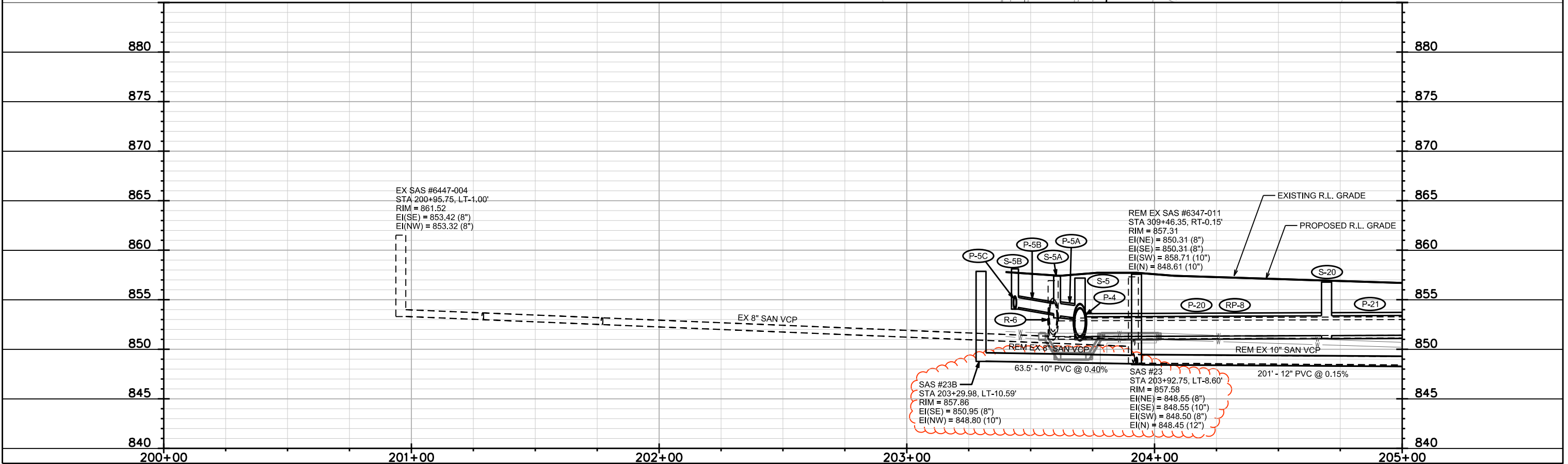
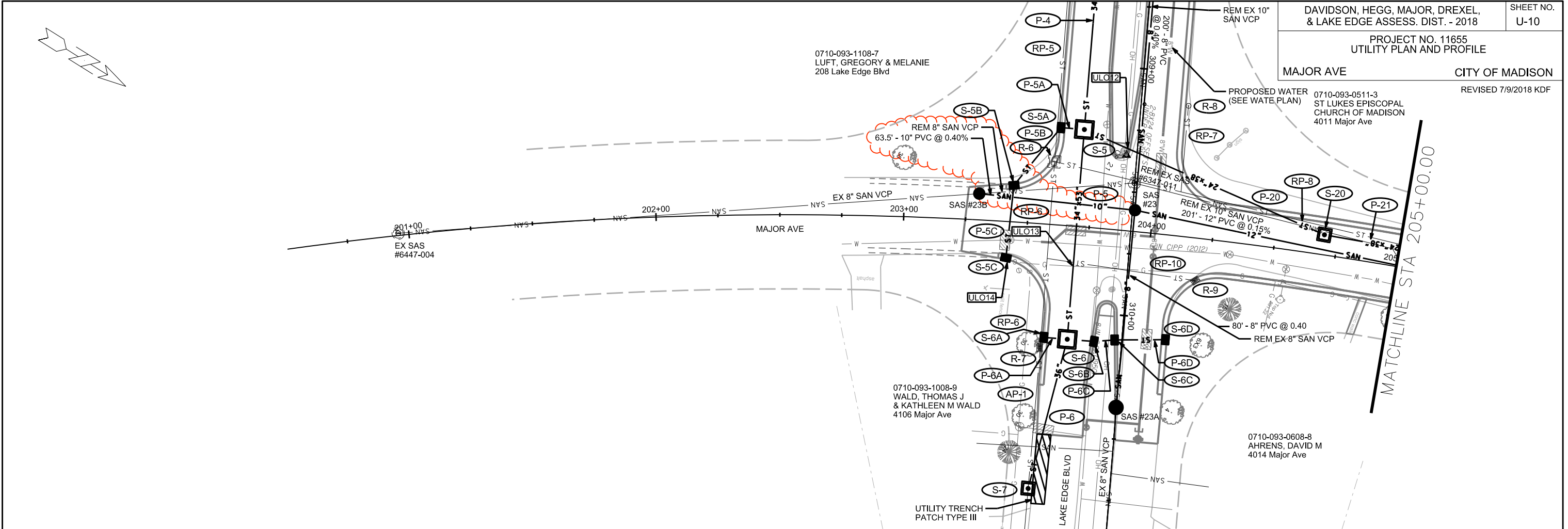
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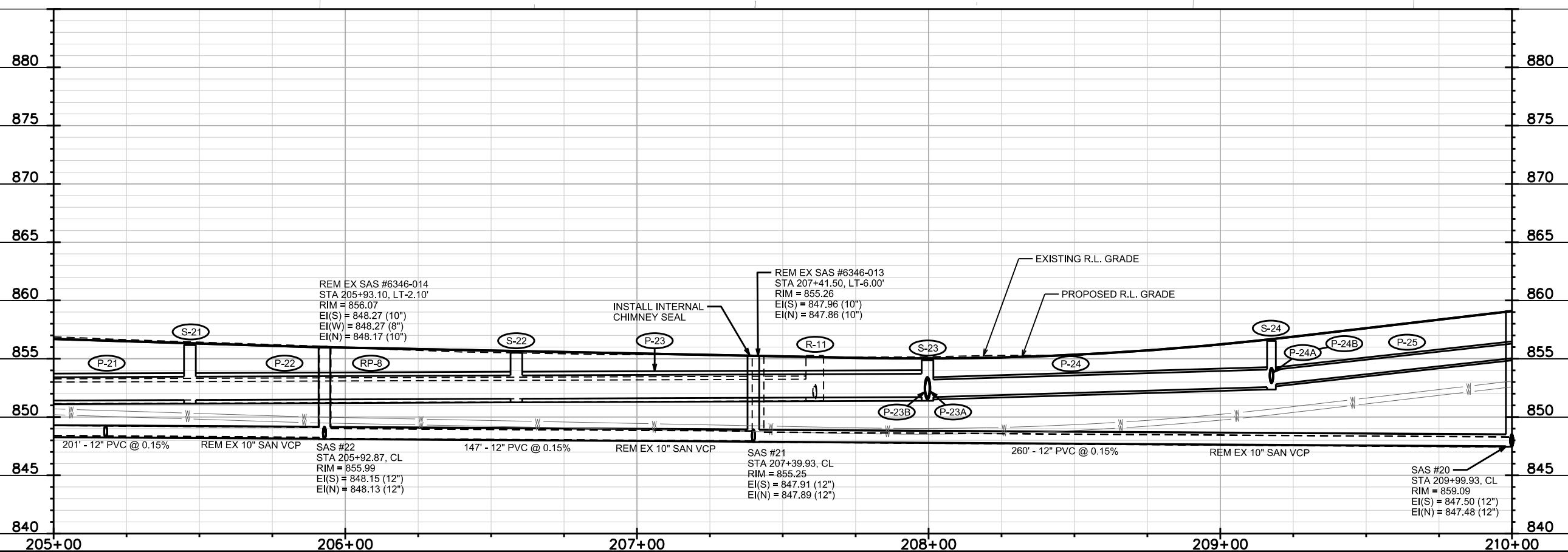
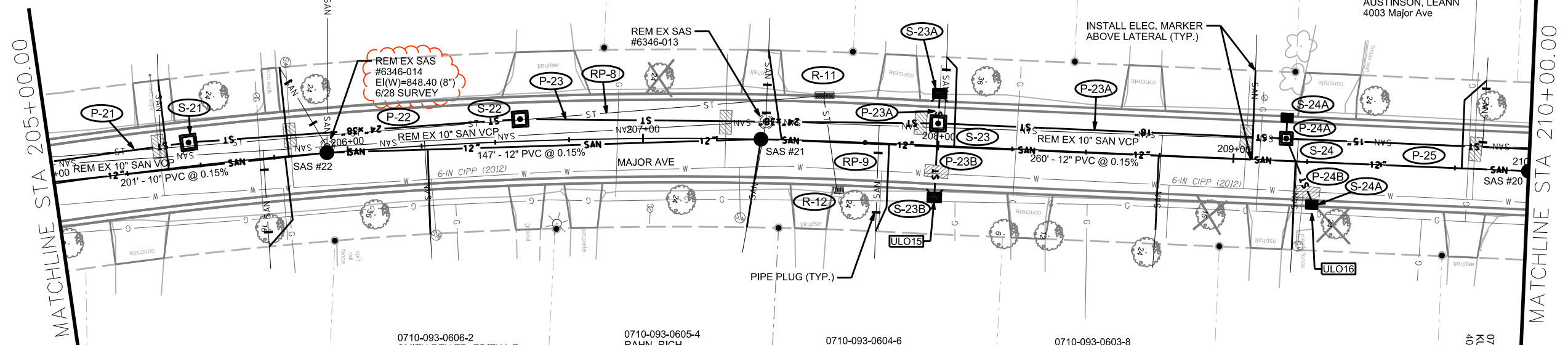
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:
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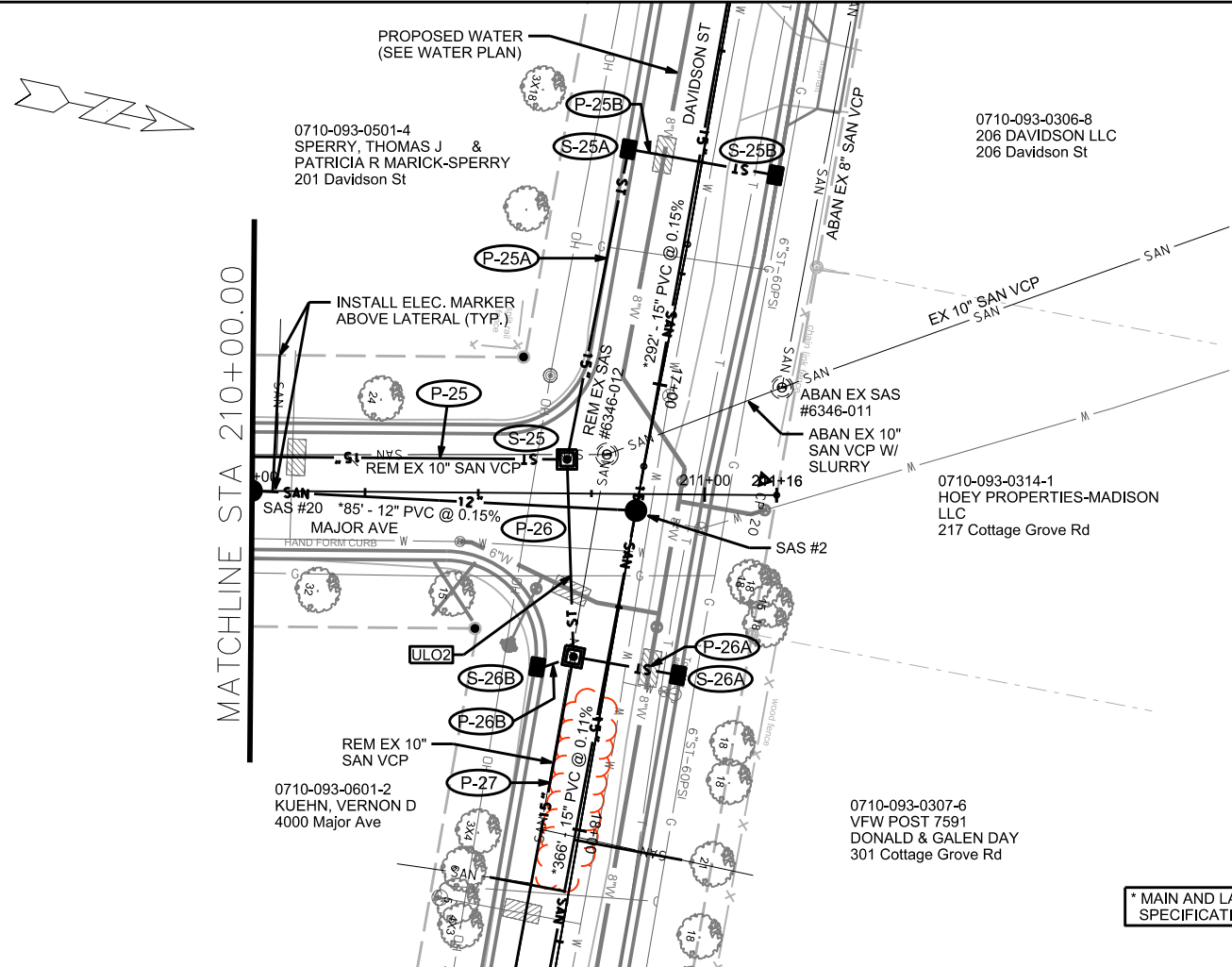


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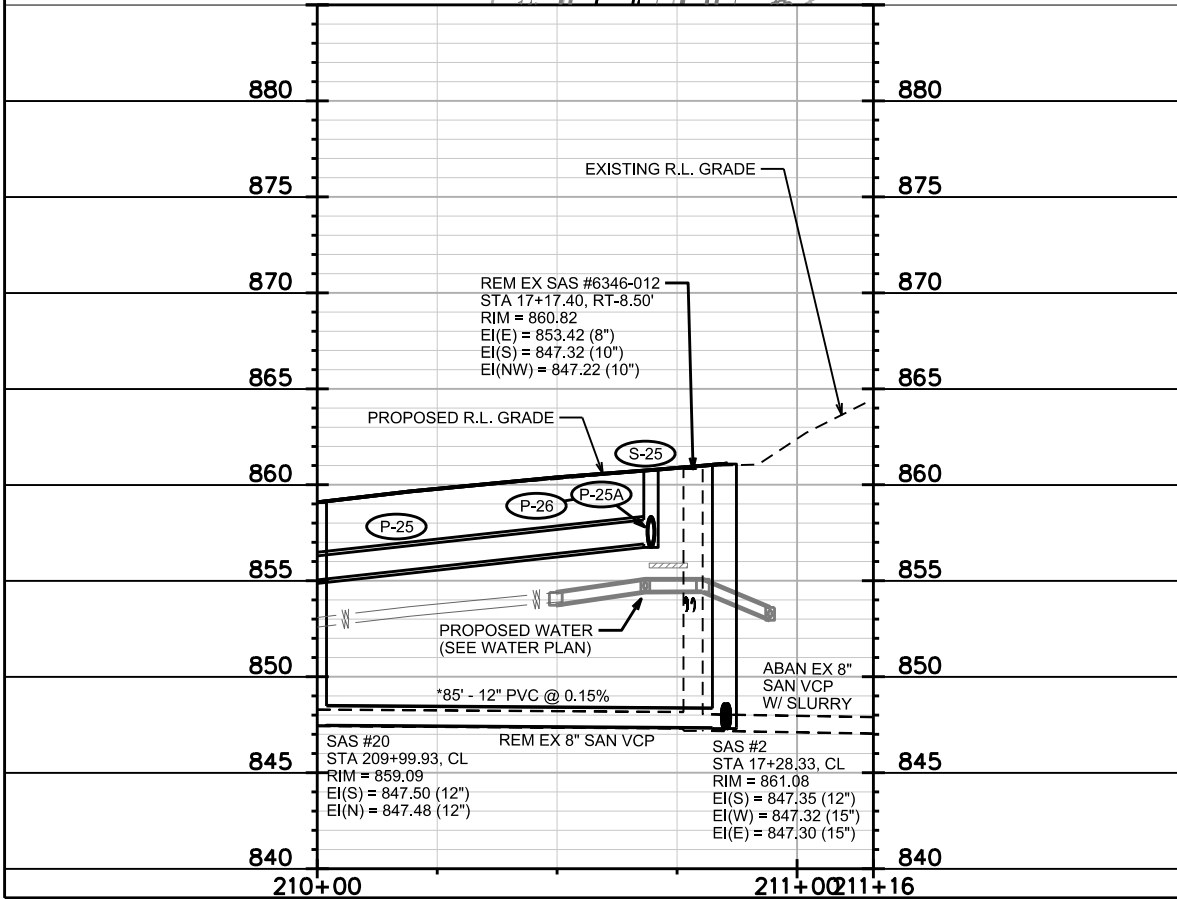
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* MAIN AND LATERALS SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26



PLOT SCALE:

PLOT NAME:

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

*REVISED 6/28/18 KDF
**REVISED 7/9/18 KDF

DAVIDSON, HEGG, MAJOR, DREXEL & LAKE EDGE ASSESS, DIST. - 2018	SHEET NO. U-13
PROJECT NO. 11655 SANITARY SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
DAVIDSON ST						
SAS #1A	21+69.40	LT-4.29	870.38	861.30	9.08	-
SAS #2	17+28.33	CL	861.08	847.30	13.78	[1], [7]
SAS #3	14+36.39	CL	861.81	847.76	14.05	[7]
SAS #4	13+60.33	CL	861.46	847.90	13.56	[7]
SAS #4A	11+11.27	CL	862.87	852.27	10.60	-
DREXEL AVE						
** SAS #1	101+26.82	CL	866.52	846.85	19.67	[2] 5FT DIA
** SAS #1B	100+72.80	LT-2.18	865.35	848.37	16.98	-
HEGG AVE						
SAS #5	110+04.76	CL	859.67	848.32	11.35	[7]
SAS #6	108+00.64	CL	856.18	848.65	7.53	[7]
SAS #7	107+05.11	CL	854.52	848.81	5.71	[1], [7]
SAS #8	105+40.02	CL	854.03	849.08	4.95	[1], [7]
SAS #9	104+18.02	CL	854.65	849.28	5.37	[1], [7]
SAS #10	103+77.48	LT-13.72	855.20	849.42	5.78	[7]
LAKE EDGE BLVD						
SAS #9A	306+75.18	LT-1.96	855.02	849.70	5.32	[1], [6], [7], 5' DIA
SAS #9B	304+44.21	LT-0.80	853.79	849.78	4.01	[1], [6], [7]
** SAS #11	302+35.23	RT-39.83	856.26	850.43	5.83	[1], [7]
SAS #23A	310+37.22	RT-0.13	857.78	848.87	8.91	[1], [6], [7], 5' DIA
SAS #24	307+57.23	LT-1.95	855.60	849.30	6.30	[1], [6], [7]
MAJOR AVE						
SAS #20	209+99.93	CL	859.09	847.48	11.61	[7]
SAS #21	207+39.93	CL	855.25	847.89	7.36	[1], [7]
SAS #22	205+92.87	CL	855.99	848.13	7.86	[7]
SAS #23	203+92.75	LT-8.60	857.58	848.45	9.13	[7]
SAS #23B	203+29.98	LT-10.59	857.86	848.80	9.06	[7]

UTILITY LINE OPENINGS (ULOS) [3]

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
DAVIDSON ST					
* ULO1	13+46.30	RT-23.05	8" ST GAS	857.51	[8], CONFLICT
* ULO1A	13+40.85	LT-10.50	8" ST GAS	857.67	OK, BTM STM = 858.06
* ULO2	17+45.65	RT-12.10	3" ST GAS	856.54	OK, BTM STM = 856.93
* ULO3	21+11.85	RT-13.05	3" ST GAS	862.71	OK, BTM STM = 863.55
* ULO18	16+49.75	LT-13.90	2" PVC TELE	858.88	[8], CONFLICT
* ULO19	17+62.40	LT-13.40	2" PVC TELE	859.28	OK, TOP STM = 858.89
* ULO20A	20+76.30	LT-26.35	3" PVC TELE	863.31	[8], CONFLICT
* ULO20B	20+73.05	LT-22.75	6" PVC ELEC	864.85	OK, TOP STM = 863.72
* ULO20C	20+67.90	LT-18.10	4" ST GAS	861.76	OK, BTM STM = 862.18
DREXEL AVE					
* ULO4	101+65.60	RT-15.70	GAS	-	GAS NOT FOUND AT ULO LOCATION
HEGG AVE					
* ULO5	106+19.90	LT-21.40	8" ST GAS	849.98	OK

SPECIFIC NOTES

- [1] INSTALL INTERNAL CHIMNEY SEAL PER S.D.D. 5.7.17
 [2] CONSTRUCT INSIDE DROP PER S.D.D. 5.7.30
 [3] LISTED ULOS TO BE COMPLETED BY OTHERS PRIOR TO THE START OF THE PROJECT. ULO INFO WILL BE PROVIDED ONCE RECEIVED. FIVE (5) ADDITIONAL UNDISTRIBUTED ULOS INCLUDED IN CONTRACT FOR USE AS DIRECTED
 * [4] SEE PIPE CROSSING DETAIL ON SHEET U-8

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
DAVIDSON ST								
** SAS #1	SAS #1A	857.66	861.30	75	4.85%	8"	SDR-35	-
** SAS #1	SAS #2	846.87	847.30	366	0.11%	15"	SDR-26	-
SAS #2	SAS #3	847.32	847.76	292	0.15%	15"	SDR-26	-
SAS #3	SAS #4	847.78	847.90	76	0.15%	15"	SDR-26	-
SAS #4	SAS #4A	848.53	852.27	249	1.50%	8"	SDR-26	-
DREXEL AVE								
** EX SAS 6446-018	SAS #1	846.54	846.85	285	0.11%	15"	AWWA C900 DR18	-
** SAS #1	SAS #1B	848.10	848.37	54	0.50%	8"	SDR-26	-
HEGG AVE								
SAS #4	SAS #5	847.92	848.32	265	0.15%	15"	SDR-26	-
SAS #5	SAS #6	848.34	848.65	204	0.15%	15"	SDR-35	-
SAS #6	SAS #7	848.67	848.81	95.5	0.15%	15"	SDR-35	[5]
SAS #7	SAS #8	848.83	849.08	165	0.15%	15"	SDR-35	[5]
SAS #8	SAS #9	849.10	849.28	122	0.15%	15"	SDR-35	[5]
SAS #9	SAS #10	849.33	849.42	43	0.20%	12"	SDR-35	[4], [5]
LAKE EDGE BLVD								
SAS #9	SAS #9A	849.38	849.70	80	0.40%	8"	SDR-35	[5]
SAS #9	SAS #9B	849.33	849.78	151	0.30%	10"	SDR-35	[5]
** SAS#10	SAS #11	849.47	850.43	346	0.28%	12"	SDR-35	-
SAS #23	SAS #24	848.50	849.30	200	0.40%	8"	SDR-35	-
SAS #23	SAS #23A	848.55	848.87	80	0.40%	8"	SDR-35	-
MAJOR AVE								
SAS #2	SAS #20	847.35	847.48	85	0.15%	12"	SDR-26	-
SAS #20	SAS #21	847.50	847.89	260	0.15%	12"	SDR-35	-
SAS #21	SAS #22	847.91	848.13	147	0.15%	12"	SDR-35	-
SAS #22	SAS #23	848.15	848.45	201	0.15%	12"	SDR-35	-
** SAS #23	SAS #23B	848.55	848.80	63.5	0.40%	10"	SDR-35	-

UTILITY LINE OPENINGS (ULOS) [3]

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
LAKE EDGE BLVD					
* ULO6	305+65.05	LT-4.55	8" ST GAS	851.18	[8], CONFLICT
* ULO7A	305+64.25	RT-4.35	6" ST GAS	851.04	[8], CONFLICT
* ULO7B	305+64.55	RT-4.25	8" ST GAS	851.06	[8], CONFLICT
* ULO8	305+65.90	RT-29.75	2" ST GAS	849.09	OK, BTM STM = 849.11
* ULO9	305+66.55	RT-41.00	2" ST GAS	849.15	OK, BTM STM = 852.03
* ULO10	306+36.95	RT-4.35	3" ST GAS	852.50	[8], CONFLICT
* ULO11	308+42.50	RT-3.50	GAS	-	GAS NOT FOUND AT ULO LOCATION
* ULO12	309+32.75	RT-3.75	GAS	-	GAS NOT FOUND AT ULO LOCATION
* ULO13	309+81.00	RT-23.90	3" PL GAS	853.98	[8], CONFLICT
* ULO17	306+59.95	RT-23.50	3" PVC ELEC	850.86	[8], CONFLICT
MAJOR AVE					
* ULO14	203+44.25	RT-15.85	3" ST GAS	854.26	[8], CONFLICT
* ULO15	207+99.75	RT-18.25	6" ST GAS	851.94	[8], CONFLICT
* ULO16	209+27.90	RT-18.15	6" ST GAS	853.81	OK

SPECIFIC NOTES

- [5] INSULATE SEWER IN ACCORDANCE WITH S.D.D. 7.03. COST TO BE INCLUDED WITH SEWER MAIN
 [6] OFFSET SAS CASTING AWAY FROM CURB AN GUTTER
 [7] INSTALL RUBBERIZED JOINT WRAPS ON ALL STRUCTURE JOINTS PER S.D.D. 5.7.2
 * [8] PRIVATE UTILITY TO BE RELOCATED. CONTRACTOR TO COORDINATE RELOCATION WITH UTILITY OWNER

SANITARY SEWER SCHEDULE

*REVISED 7/9/18 KDF

DAVIDSON, HEGG, MAJOR, DREXEL,
& LAKE EDGE ASSESS. DIST. - 2018

SHEET NO.
U-14

PROJECT NO. 11655
SANITARY SEWER SCHEDULE
CITY OF MADISON

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
DAVIDSON ST						
SAS #6346-003	11+11.50	RT-7.25	862.63	853.03	9.60	-
SAS #6346-004	11+59.75	RT-6.75	862.38	852.95	9.43	-
SAS # 6346-012	17+17.40	RT-8.50	860.82	847.22	13.60	-
SAS #6446-003	20+09.55	RT-3.30	863.66	854.46	9.20	-
SAS #6446-006	20+87.40	LT-4.60	866.60	857.90	8.70	-
HEGG AVE						
SAS #6347-007	103+77.50	LT-13.75	855.02	849.62	5.40	-
SAS #6347-009	105+50.90	LT-14.25	853.80	849.90	3.90	-
SAS #6347-010	107+05.45	LT-10.15	854.54	849.14	5.40	-
SAS #6346-017	108+00.75	LT-6.35	856.06	849.46	6.60	-
SAS #6346-007	109+15.50	LT-7.80	857.96	850.06	7.90	-
SAS #6346-008	111+91.15	LT-11.45	860.74	852.64	8.10	-
LAKE EDGE BLVD						
SAS #6347-008	305+76.50	LT-8.00	854.85	849.55	5.30	-
SAS #6347-011	309+46.35	RT-0.15	857.31	848.61	8.70	-
* SAS #6347-005	302+35.23	RT-39.83	856.26	850.43	5.83	-
MAJOR AVE						
SAS #6346-014	205+93.10	LT-2.10	856.07	848.17	7.90	-
SAS #6346-013	207+41.50	LT-6.00	855.26	847.86	7.40	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
DAVIDSON ST						
SAS #6346-012	SAS #6446-003	288	VCP	8"	Y	-
SAS #6446-006	SAS #1A	82	VCP	8"	N	-
DREXEL AVE						
SAS #1B	SAS #6446-006	55	VCP	8"	Y	-
HEGG AVE						
SAS #6347-010	SAS #6347-009	152	VCP	8"	N	-
SAS #6347-010	SAS #6346-017	92	VCP	8"	N	-
SAS #6346-017	SAS #6346-007	111	VCP	8"	N	-
SAS #6346-007	SAS #6346-008	271	VCP	8"	Y	-
SAS #6347-008	SAS #10	37	VCP	8"	Y	-
LAKE EDGE BLVD						
SAS #6347-008	SAS #9B	133	VCP	10"	N	-
SAS #9A	SAS #6347-008	101	VCP	10"	N	-
SAS #6347-011	SAS #24	190	VCP	10"	N	-
SAS #6347-011	SAS #23A	92	VCP	8"	N	-
SAS #6347-011	SAS #23B	63	VCP	8"	Y	-
MAJOR AVE						
SAS #6346-012	SAS #6346-013	333	VCP	10	Y	-
SAS #6346-013	SAS #6346-014	145	VCP	10	Y	-
SAS #6346-014	SAS #6347-011	200	VCP	10	Y	-

SANITARY STRUCTURE ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
DAVIDSON ST						
SAS #6346-009	12+73.35	LT-32.80	862.28	854.18	8.10	-
SAS #6346-010	14+81.65	LT-28.45	862.82	853.32	9.50	-
* SAS #6346-011	16+95.40	LT-26.60	862.87	846.97	15.90	-

SANITARY PIPE ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
DAVIDSON ST						
SAS #6346-005	SAS #6346-004	52	VCP	8"	Y	[1]
SAS #6346-004	SAS #6346-003	44	VCP	8"	Y	[1]
SAS #6346-010	SAS #6346-009	204	VCP	8"	N	[2]
SAS #6346-011	SAS #6346-010	210	VCP	8"	N	[2]
SAS #6346-011	SAS #6346-012	38	VCP	10"	Y	[1]
LAKE EDGE BLVD						
SAS #24	SAS #9A	77	VCP	10	Y	[1]

SPECIFIC NOTES

- [1] ABANDON PIPE WITH SLURRY. ABANDON PIPE PAID UNDER BID ITEM 20335
- [2] PIPE PLUGS TO ABANDON SEWER INCIDENTAL TO STRUCTURE ABANDONMENT AND LATERAL INSTALL

STORM SEWER SCHEDULE

*REVISED 7/25/18 KDF

DAVIDSON, HEGG, MAJOR, DREXEL & LAKE EDGE ASSESS. DIST. - 2018	SHEET NO. U-15
PROJECT NO. 11655 STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
DAVIDSON ST							
* S-15A	14+03.17	RT-17.80	HINLET	861.85	857.95	3.90	W/R-3067-7004-V
S-16	13+19.00	RT-16.50	3X3 SAS	861.43	857.65	3.78	W/R-3067-7004-V
* S-16A	13+65.55	LT-10.40	HINLET	861.65	857.95	3.70	W/R-3067-7004-V
* S-16B	13+50.00	LT-10.50	HINLET	861.78	858.26	3.52	LP, W/R-3067-7004-VB
S-17	12+46.61	LT-16.50	HINLET	862.05	858.28	3.77	LP, W/R-3067-7004-VB
S-25A	16+50.00	RT-16.50	HINLET	861.14	857.26	3.88	W/R-3067-7004-V
* S-25B	16+50.00	LT-16.50	HINLET	861.60	857.81	3.79	LP, W/R-3067-7004-VB
S-26	17+62.50	RT-8.00	3X3 SAS	860.58	857.22	3.36	FP, W/R-1550-0054
S-26A	17+62.50	LT-15.50	HINLET	861.58	857.73	3.85	LP, W/R-3067-7004-VB
S-26B	17+66.12	RT-15.50	HINLET	860.81	857.50	3.31	W/R-3067-7004-V
S-27	19+24.49	RT-9.51	3X3 SAS	861.59	858.41	3.18	FP, W/R-1550-0054
S-28	20+62.61	RT-7.00	3X3 SAS	865.14	861.18	3.96	W/R-1550-0054
S-28A	21+32.64	RT-15.51	HINLET	868.67	864.64	4.03	W/R-3067-7004-V
S-28B	21+30.97	LT-15.45	HINLET	868.50	864.79	3.71	W/R-3067-7004-V
DREXEL AVE							
S-29	101+64.52	LT-13.50	HINLET	867.19	863.16	4.03	W/R-3067-7004-V
S-30	101+66.00	RT-13.50	HINLET	868.17	864.22	3.95	LP, W/R-3067-7004-VB
HEGG AVE							
S-2A	103+68.38	LT-14.68	HINLET	855.56	852.34	3.22	W/R-3067-7004-V
S-2B	103+72.12	RT-16.10	HINLET	855.58	852.73	2.85	W/R-3067-7004-V
S-10	104+56.20	LT-14.54	4X4 SAS	854.69	850.70	3.99	W/R-3067-7004-V
S-10A	104+57.95	RT-14.46	HINLET	854.69	851.20	3.49	W/R-3067-7004-V
S-11	106+18.13	LT-18.34	TERRACE INLET II	853.61	851.02	2.59	[1], FP
S-11A	106+19.67	RT-17.53	TERRACE INLET III	853.61	851.17	2.44	[1], FP
S-12	106+53.59	RT-8.00	3X3 SAS	853.67	851.16	2.51	FP, W/R-1550-0054
S-13	107+19.95	RT-8.00	3X3 SAS	854.62	851.47	3.15	FP, W/R-1550-0054
S-14	109+54.50	RT-8.00	3X3 SAS	858.69	854.83	3.86	FP, W/R-1550-0054
S-14A	109+54.50	LT-14.50	HINLET	858.84	854.93	3.91	W/R-3067-7004-V
S-14B	109+54.50	RT-14.50	HINLET	858.97	854.85	4.12	W/R-3067-7004-V
S-15	112+44.50	RT-8.00	3X3 SAS	861.03	857.14	3.89	W/R-1550-0054
LAKE EDGE BLVD							
S-1	303+52.35	RT-31.75	TAP	-	849.11	-	-
S-2	305+54.13	RT-29.16	5X12 SAS	854.21	849.31	4.90	[2], FP
S-3	306+40.43	RT-22.00	6X7 SAS	854.72	850.16	4.56	FP, W/R-1550-0054
S-3A	306+40.43	RT-31.50	HINLET	855.06	852.26	2.80	FP, W/R-3067-7004-V
S-3B	306+40.47	RT-11.17	HINLET	855.36	852.03	3.33	W/R-3067-7004-V
S-3C	306+38.61	RT-3.01	HINLET	855.35	852.06	3.29	W/R-3067-7004-V
S-3D	306+33.86	LT-17.50	HINLET	854.87	852.16	2.71	FP, W/R-3067-7004-V
S-4	308+36.43	RT-22.00	6X6 SAS	856.27	851.11	5.16	FP, W/R-1550-0054
S-4A	308+49.16	LT-17.50	HINLET	856.61	853.13	3.48	[3], W/R-3067-7004-V

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
DAVIDSON ST										
* P-15A	S-15	S-15A	857.14	857.95	32.5	29.5	2.75%	12"	TYPE I	-
P-16	S-15	S-16	857.14	857.65	54	50.8	1.00%	15"	TYPE I	-
* P-16A	S-15	S-16A	857.14	857.95	35	32.5	2.50%	12"	TYPE I	-
* P-16B	S-16A	S-16B	857.95	858.26	23.5	20.5	1.50%	12"	TYPE I	-
P-17	S-16	S-17	857.90	858.28	79.5	76.3	0.50%	12"	TYPE I	-
P-25A	S-25	S-25A	856.92	857.26	68.5	66.8	0.50%	15"	TYPE I	-
P-25B	S-25A	S-25B	857.51	857.81	31	31	1.00%	12"	TYPE I	-
P-26	S-25	S-26	856.92	857.22	43.5	40.6	0.75%	15"	TYPE I	-
P-26A	S-26	S-26A	857.47	857.73	22.5	21	1.25%	12"	TYPE I	-
P-26B	S-26	S-26B	857.47	857.50	7.5	5.7	0.50%	12"	TYPE I	-
P-27	S-26	S-27	857.22	858.41	162	159	0.75%	15"	TYPE I	-
P-28	S-27	S-28	858.41	861.18	138	135	2.05%	15"	TYPE I	-
P-28A	S-28	S-28A	861.43	864.64	69	67.5	4.75%	12"	TYPE I	-
P-28B	S-28A	S-28B	864.64	864.79	29	29	0.50%	12"	TYPE I	-
P-29	S-28	S-29	861.43	863.16	49.5	46.2	3.75%	12"	TYPE I	-
DREXEL AVE										
P-30	S-29	S-30	863.16	864.22	27	25	4.25%	12"	TYPE I	-
HEGG AVE										
P-2A	S-2.1	S-2A	852.08	852.34	33.5	28.8	0.90%	15"	TYPE I	-
P-2B	S-2A	S-2B	852.59	852.73	31	28.8	0.50%	12"	TYPE I	-
P-10A	S-10	S-10A	851.07	851.20	29	26	0.50%	12"	TYPE I	-
P-11	S-10	S-11	850.70	851.02	164	159.6	0.20%	19"X30"	HERCP	-
P-11A	S-11	S-11A	851.02	851.17	36	33.4	0.45%	15"	TYPE I	-
P-12	S-11	S-12	851.02	851.16	44.5	39.8	0.35%	14"X23"	HERCP	-
P-13	S-12	S-13	851.16	851.47	66	63	0.50%	14"X23"	HERCP	-
P-14	S-13	S-14	851.47	854.83	234	231	1.45%	14"X23"	HERCP	-
P-14A	S-14	S-14A	854.83	854.93	22.5	20	0.50%	12"	TYPE I	-
P-14B	S-14	S-14B	854.83	854.85	6.5	4	0.50%	12"	TYPE I	-
P-15	S-14	S-15	854.83	857.14	290	287	0.80%	14"X23"	HERCP	-
LAKE EDGE BLVD										
P-1	S-1	S-2	849.11	849.31	206	199.3	0.10%	34"X53"	HERCP	-
P-2	S-2	S-3	850.54	850.95	86.5	81.1	0.51%	24"	TYPE II	[4], [5]
P-3	S-3	S-4	850.16	851.11	196	190	0.50%	34"X53"	HERCP	-
P-3A	S-3	S-3A	852.23	852.26	9.5	5.5	0.55%	12"	TYPE I	-
P-3B	S-3	S-3B	851.98	852.03	11	6.8	0.75%	15"	TYPE I	-
P-3C	S-3B	S-3C	852.03	852.06	8.5	6.3	0.50%	15"	TYPE I	-
P-3D	S-3C	S-3D	852.06	852.16	21	19	0.50%	12"	TYPE I	-
P-4	S-4	S-5	851.11	851.28	90	84	0.20%	34"X53"	HERCP	-
P-4A	S-4	S-4A	852.94	853.13	41.5	37.3	0.50%	12"	TYPE I	-

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.

SPECIFIC NOTES

- [1] TOP OF CASTING ELEVATION IS 0.2' BELOW TOP OF CURB ELEVATION PER S.D.D. 5.7.12A
- [2] STRUCTURE SHALL HAVE ONE (1) R-1550-0054 & ONE (1) R-3067-7004-V
- [3] PRIVATE STORM RECONNECT TYPE I
- [4] TYPE "A" SLURRY SHALL BE USED AS BEDDING UP TO PIPE HAUNCHES AND PAID UNDER BID ITEM 30141
- [5] PIPE IS TRIPLE 24" ADS HP STORM PIPE, PLAN LENGTH SHALL BE TRIPLED

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 KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

DAVIDSON, HEGG, MAJOR, DREXEL, & LAKE EDGE ASSESS. DIST. - 2018	SHEET NO. U-16
PROJECT NO. 11655 STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
LAKE EDGE BLVD							
S-5	309+26.43	RT-22.00	6X6 SAS	857.19	851.28	5.91	W/R-1550-0054
S-5A	309+26.43	RT-31.50	H INLET	857.39	853.37	4.02	W/R-3067-7004-V
S-6	310+11.40	RT-22.00	6X6 SAS	857.41	851.48	5.93	W/R-1550-0054
S-6A	310+11.40	RT-31.50	H INLET	857.65	853.80	3.85	W/R-3067-7004-V
S-6B	310+11.40	RT-11.20	H INLET	858.03	854.00	4.03	W/R-3067-7004-V
S-6C	310+10.12	RT-2.92	H INLET	858.03	854.06	3.97	W/R-3067-7004-V
S-6D	310+08.34	LT-17.50	H INLET	857.79	854.15	3.64	W/R-3067-7004-V
S-7	310+72.72	RT-32.84	4X4 SAS	858.34	852.14	6.20	W/R-1550-0054
MAJOR AVE							
S-5B	203+43.65	LT-14.80	H INLET	858.12	854.22	3.90	W/R-3067-7004-V
S-5C	203+42.21	RT-14.67	H INLET	858.38	854.50	3.88	W/R-3067-7004-V
S-20	204+69.46	LT-8.05	4X4 SAS	856.78	851.38	5.40	W/R-1550-0054
S-21	205+46.74	LT-7.97	4X4 SAS	856.17	851.46	4.71	W/R-1550-0054
S-22	206+58.67	LT-7.50	4X4 SAS	855.51	851.57	3.94	W/R-1550-0054
S-23	207+99.62	LT-7.50	4X4 SAS	854.87	851.71	3.16	W/R-1550-0054
S-23A	207+99.75	LT-17.58	TERRACE INLET III	854.94	851.75	3.19	[1], FP
S-23B	207+99.41	RT-17.58	TERRACE INLET III	854.94	851.82	3.12	[1], FP
S-24	209+17.56	LT-7.50	3X3 SAS	856.53	852.57	3.96	W/R-1550-0054
S-24A	209+17.56	LT-14.50	H INLET	856.80	853.16	3.64	W/R-3067-7004-V
S-24B	209+27.15	RT-14.50	H INLET	857.08	853.23	3.85	W/R-3067-7004-V
S-25	210+69.56	LT-7.50	3X3 SAS	860.75	856.92	3.83	W/R-1550-0054

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	
LAKE EDGE BLVD					
R-1	AS #1	304+31.00	RT-33.75	SAS	-
R-2	AS #6347-014	305+70.00	RT-27.00	CATCHBASIN	-
R-3	IN #6347-002	305+60.75	LT-23.75	INLET	-
R-4	IN #6347-009	306+14.75	RT-33.25	SADDLE INLET	-
R-5	IN #6347-003	306+09.00	LT-22.15	INLET	-
R-6	AS #6347-018	309+40.25	RT-33.00	SAS	-
R-7	IN #6447-004	310+15.75	RT-32.75	SADDLE INLET	-
R-8	IN #6347-004	309+13.50	LT-19.15	INLET	-
R-9	IN #1	309+83.50	LT-27.50	INLET	-
HEGG AVE					
R-10	IN #6347-015	106+07.00	LT-16.00	SAS	-
MAJOR AVE					
R-11	IN #6346-005	207+61.00	LT-15.50	SAS	-
R-12	IN #6346-004	207+67.00	RT-16.50	INLET	-

ABANDON STORM PIPES

ABAN NO.	ABAN FROM	ABAN TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
LAKE EDGE BLVD						
AP-1	R-7	S-7	35	36"	CMP	2 PLUGS PAID FOR BID ITEM 20336

SPECIFIC NOTES

[1] TOP OF CASTING ELEVATION IS 0.2' BELOW TOP OF CURB ELEVATION PER S.D.D. 5.7.12A

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
LAKE EDGE BLVD										
P-5	S-5	S-6	851.28	851.48	85	79	0.25%	34"X53"	HERCP	-
P-5A	S-5	S-5A	853.20	853.37	9.5	5.5	3.10%	15"	TYPE I	-
P-6	S-6	S-7	851.48	852.14	62.5	57.2	1.15%	36"	TYPE I	-
P-6A	S-6	S-6A	853.65	853.80	8.5	5.5	2.75%	12"	TYPE I	-
P-6B	S-6	S-6B	853.65	854.00	11	6.8	5.15%	12"	TYPE I	-
P-6C	S-6B	S-6C	854.00	854.06	8.5	6.3	1.00%	12"	TYPE I	-
P-6D	S-6C	S-6D	854.06	854.15	20.50	18.50	0.50%	12"	TYPE I	-
P-10	S-2	S-10	850.58	850.70	74	65.5	0.20%	19"X30"	HERCP	-
MAJOR AVE										
P-5B	S-5A	S-5B	853.62	854.22	30	26.8	2.25%	12"	TYPE I	-
P-5C	S-5B	S-5C	854.22	854.50	29.5	27.5	1.00%	12"	TYPE I	-
P-20	S-5	S-20	851.28	851.38	106	100.6	0.10%	24"X38"	HERCP	-
P-21	S-20	S-21	851.38	851.46	78	73.7	0.10%	24"X38"	HERCP	-
P-22	S-21	S-22	851.46	851.57	112.5	108.5	0.10%	24"X38"	HERCP	-
P-23	S-22	S-23	851.57	851.71	141.5	137.5	0.10%	24"X38"	HERCP	-
P-23A	S-23	S-23A	851.71	851.75	9	7.7	0.50%	18"	TYPE I	-
P-23B	S-23	S-23B	851.71	851.82	24	22.7	0.50%	18"	TYPE I	-
P-24	S-23	S-24	851.71	852.57	118	114.4	0.75%	18"	TYPE I	-
P-24A	S-24	S-24A	853.07	853.16	6	4.5	2.00%	12"	TYPE I	-
P-24B	S-24	S-24B	853.07	853.23	23	21.4	0.75%	12"	TYPE I	-
P-25	S-24	S-25	852.82	856.92	152	149	2.75%	15"	TYPE I	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
LAKE EDGE BLVD							
RP-1	AS #6347-007	R-2	215	42"	CMP	N	-
RP-2	R-2	R-4	40	42"	CMP	Y	-
RP-3	TAP	R-3	10	12"	VCP	Y	-
RP-4	R-4	R-5	53	12"	VCP	Y	-
RP-5	R-4	R-6	322	42"	CMP	Y	-
RP-6	R-6	R-7	72	36"	CMP	Y	-
RP-7	R-2	R-10	213	14"X23"	HERCP	N	-
RP-8	R-6	R-11	401	19"X30"	HERCP	N	-
RP-9	R-11	R-12	30	12"	CMP	Y	-
RP-10	R-9	TAP	59	15"	VCP	Y	-

- 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.

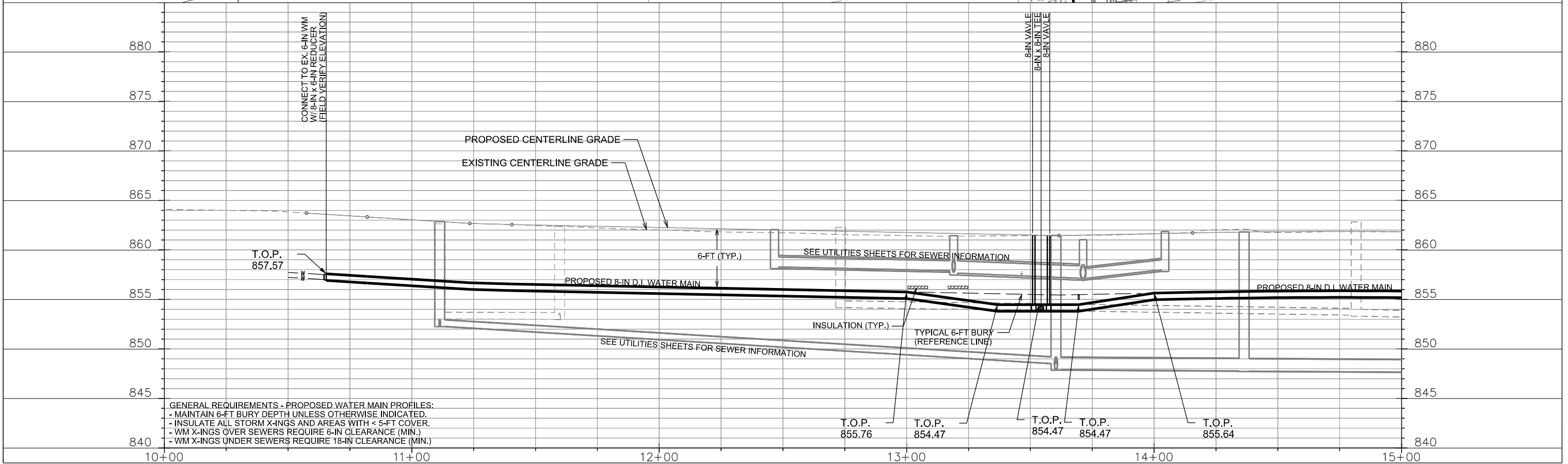
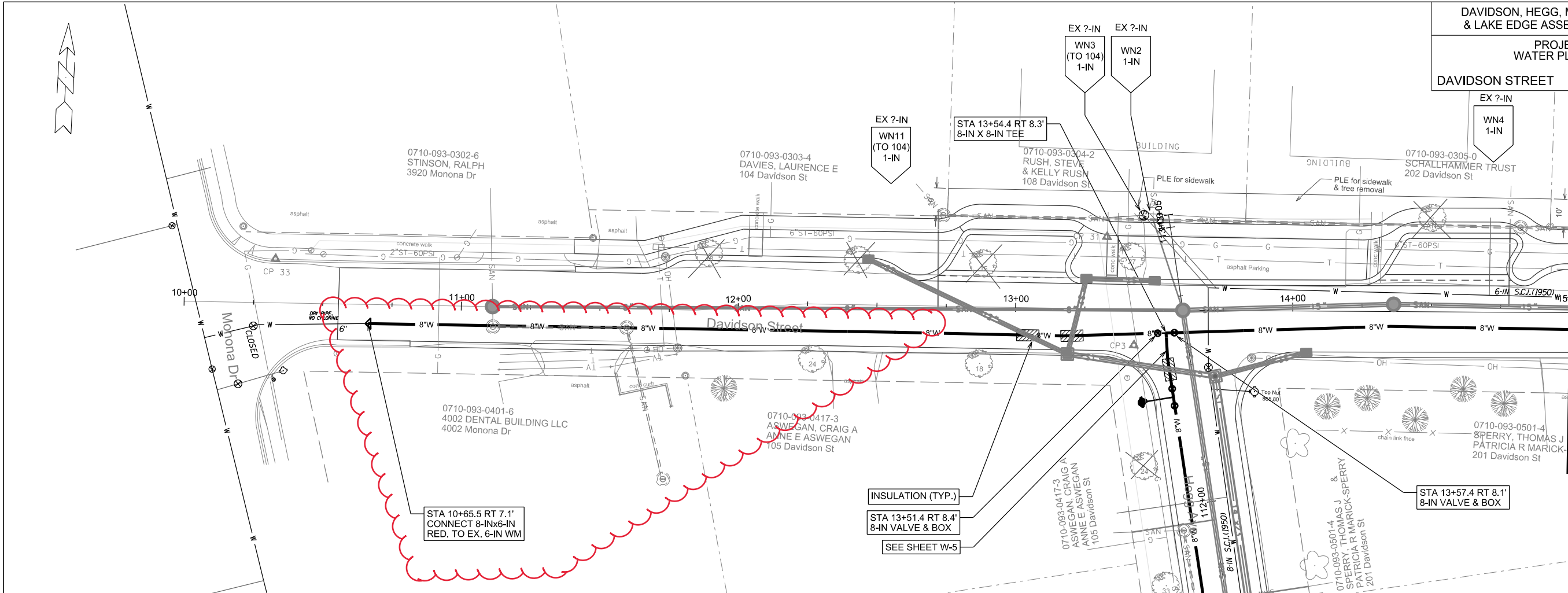
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.

- 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 KYLE OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

06/28/2018 AJ
CHANGED WATER
DESIGN TO
ELIMINATE 4 BENDS



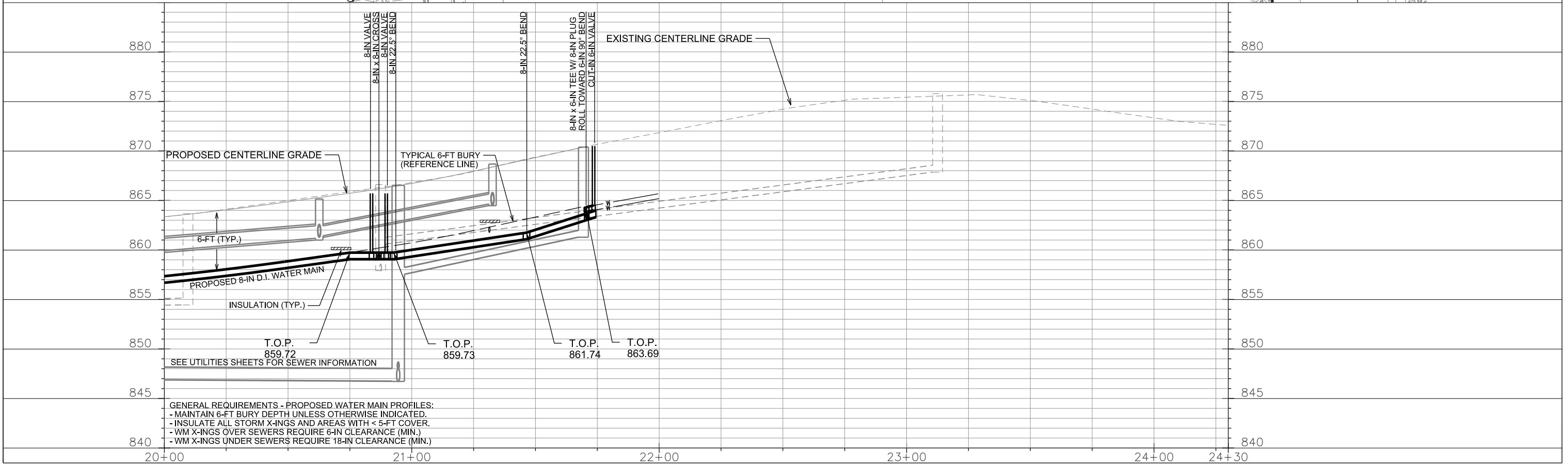
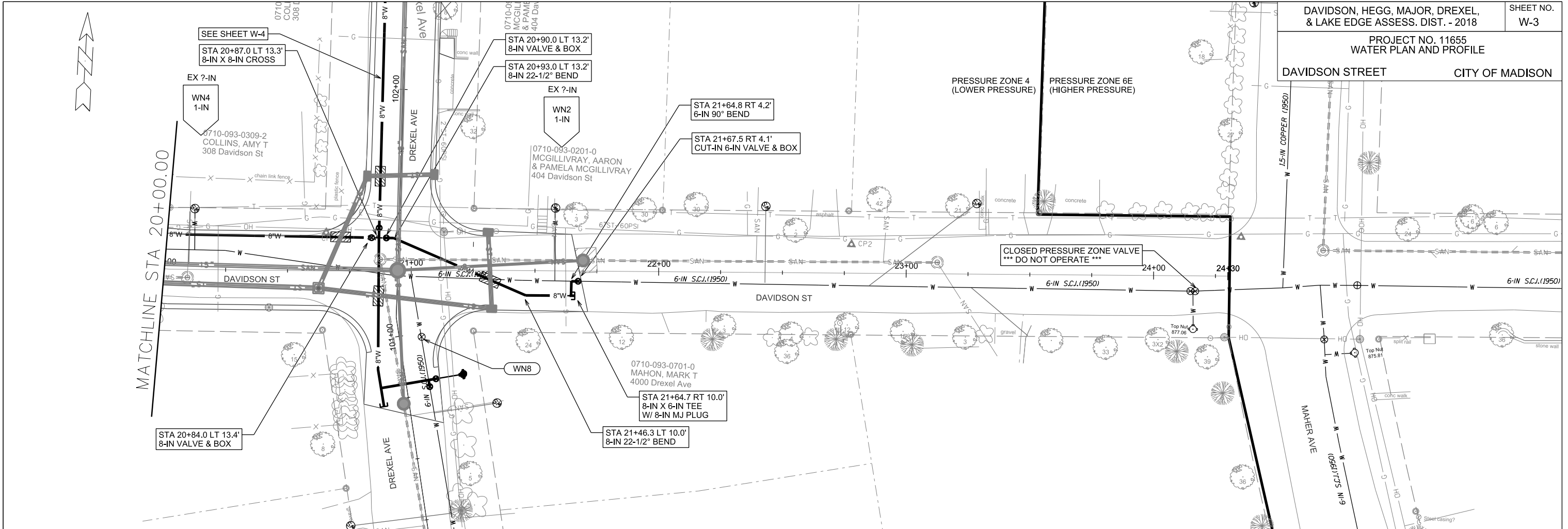
GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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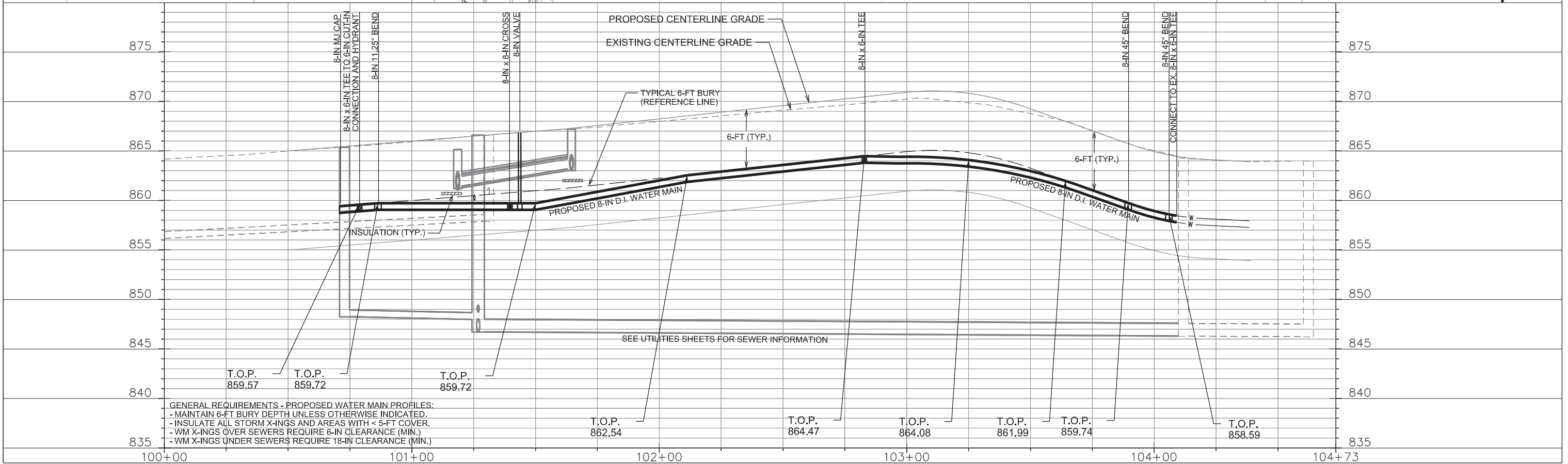
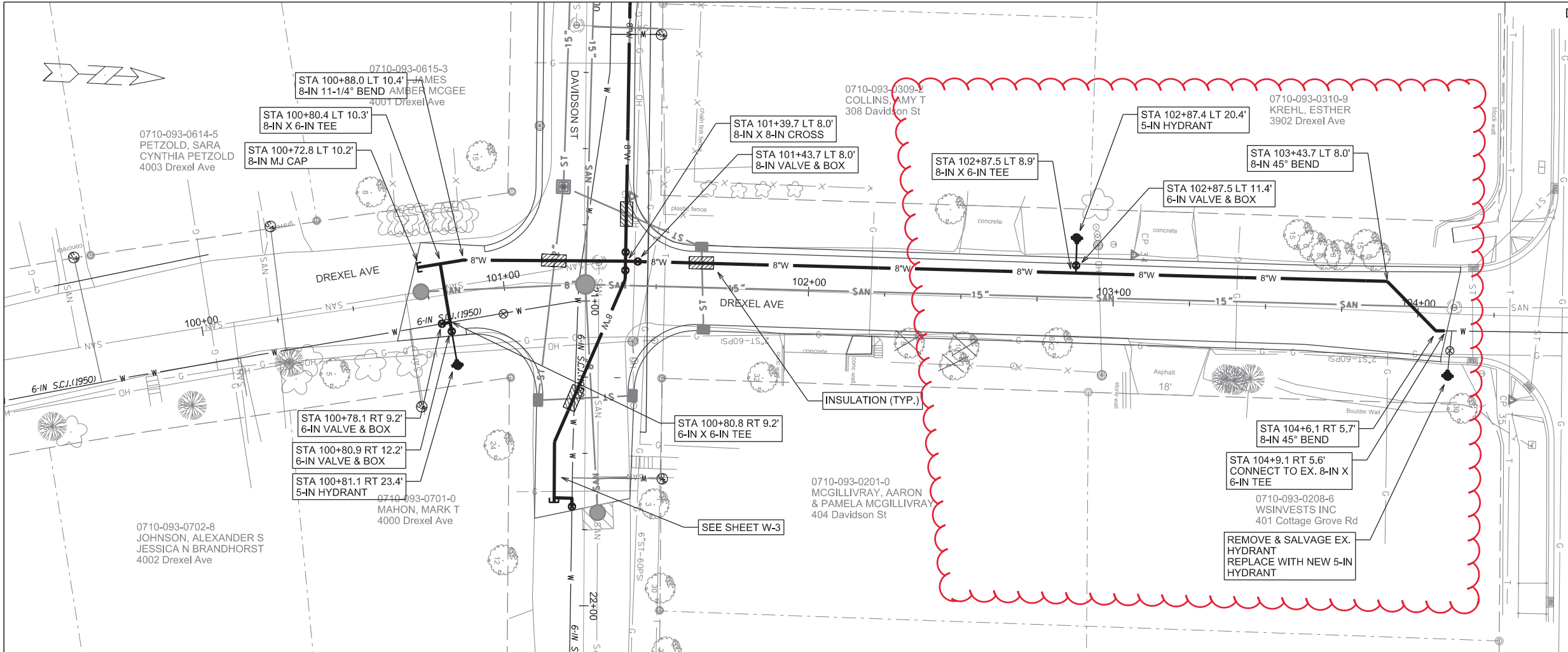
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

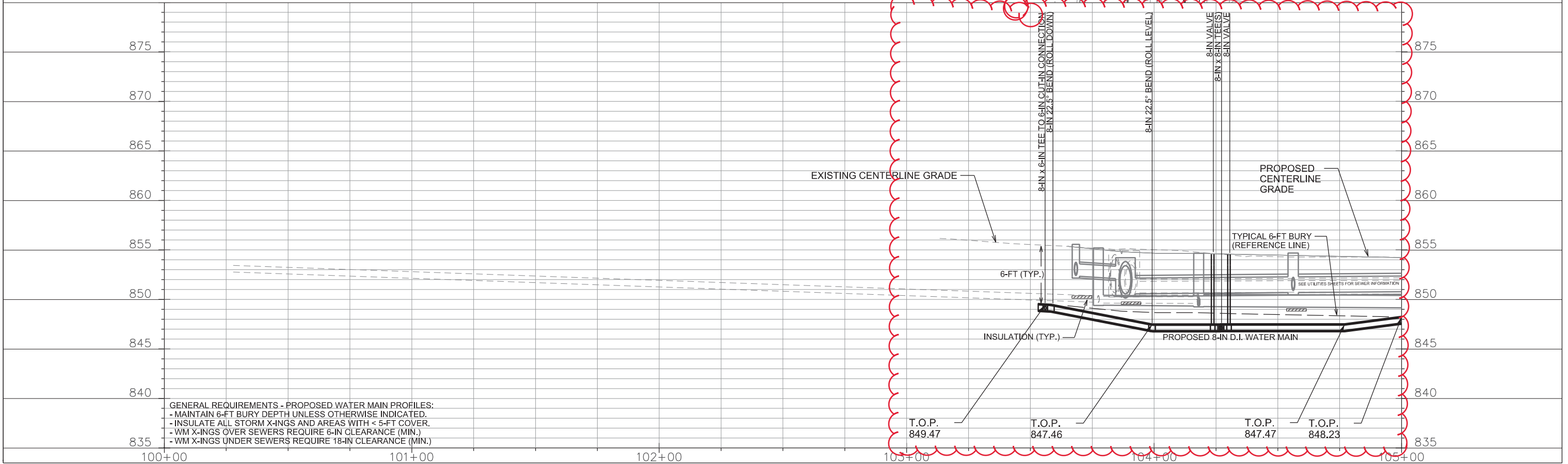
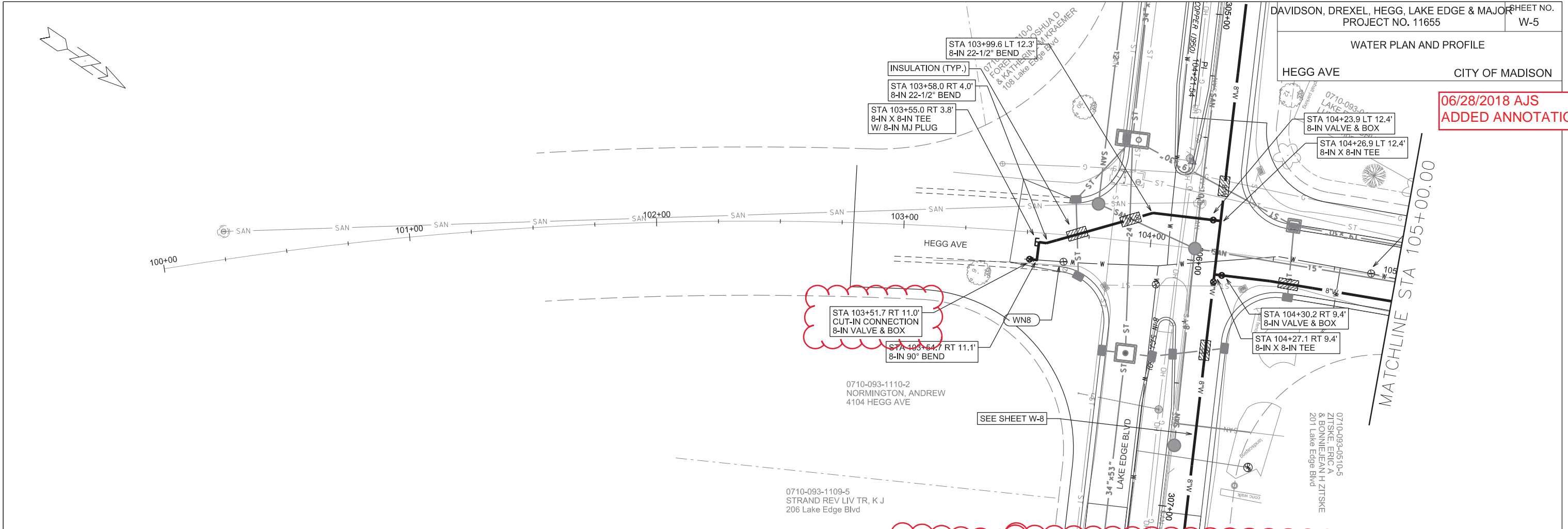
06/28/2018 AJA
ADDED ANNOTATION



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

06/28/2018 AJ5
 ADDED ANNOTATION



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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PLOT SCALE: _____

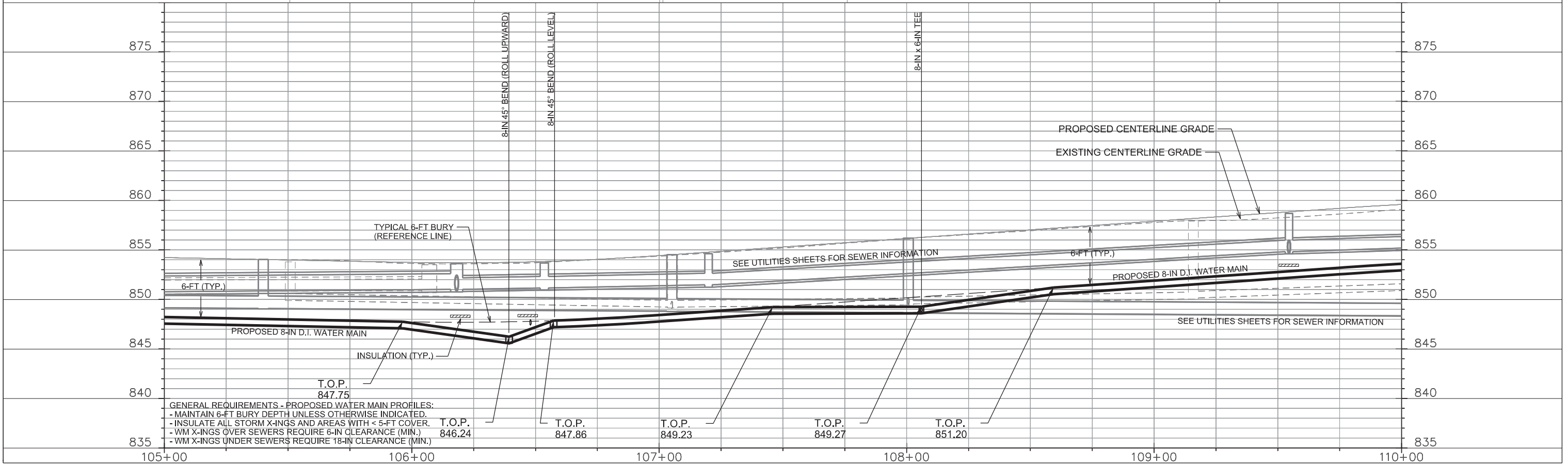
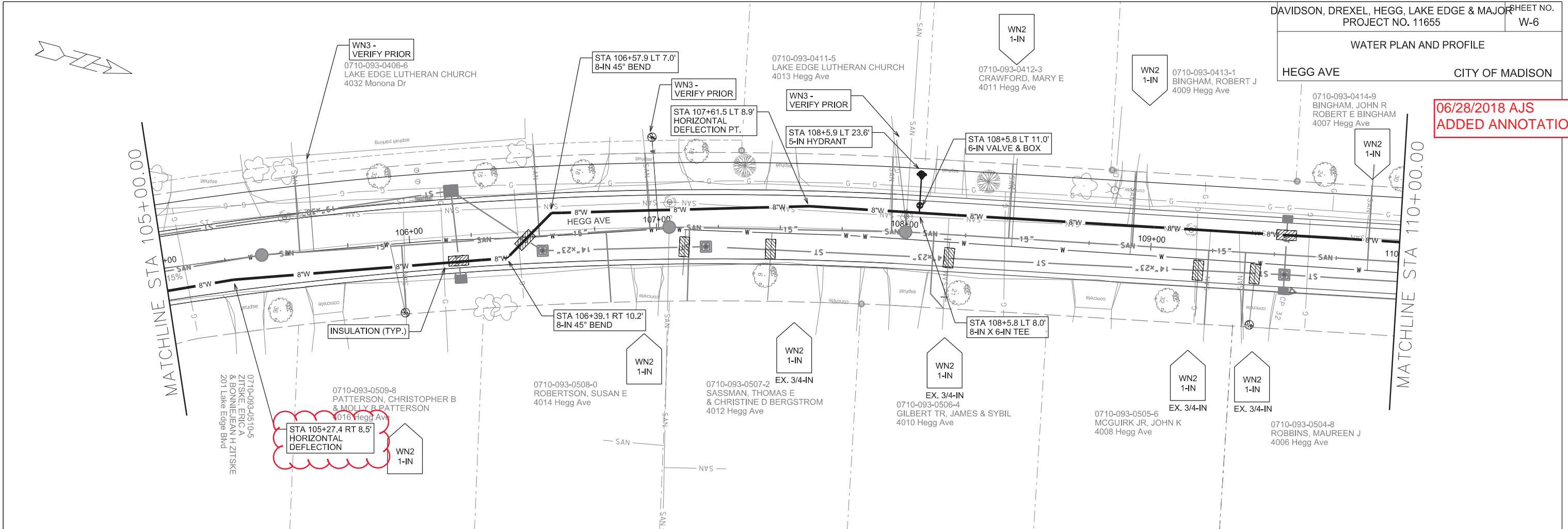
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE CITY OF MADISON

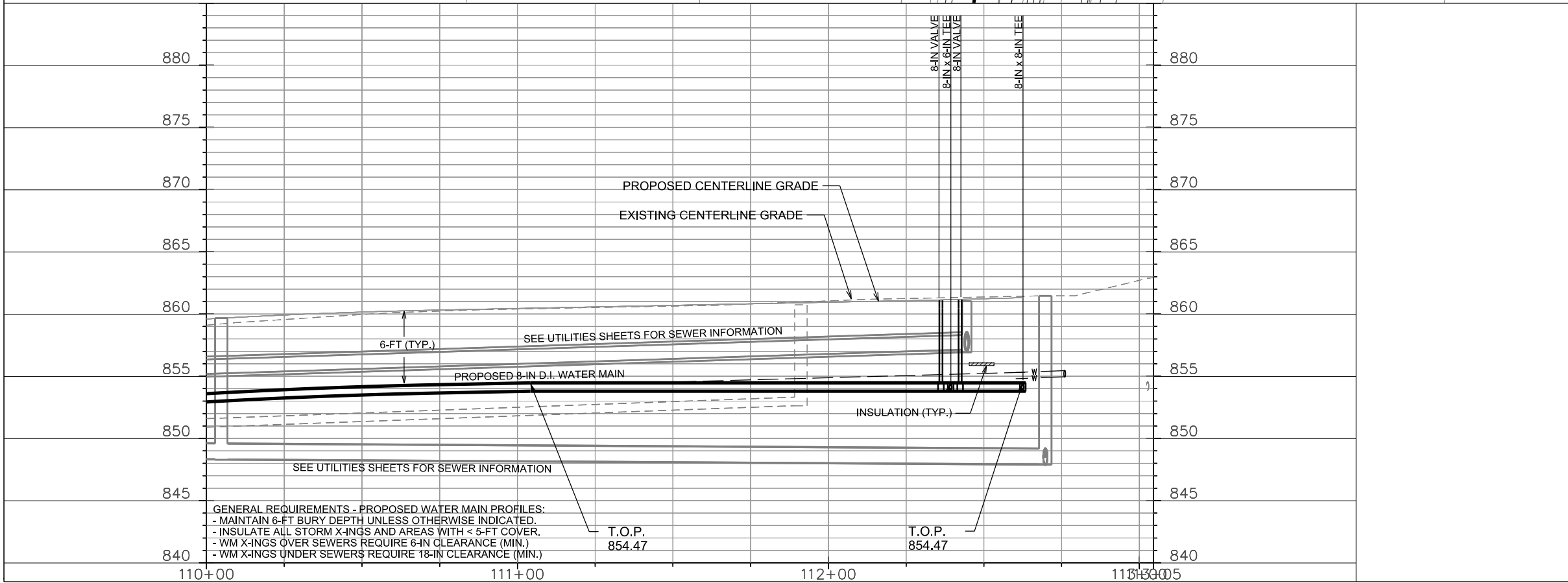
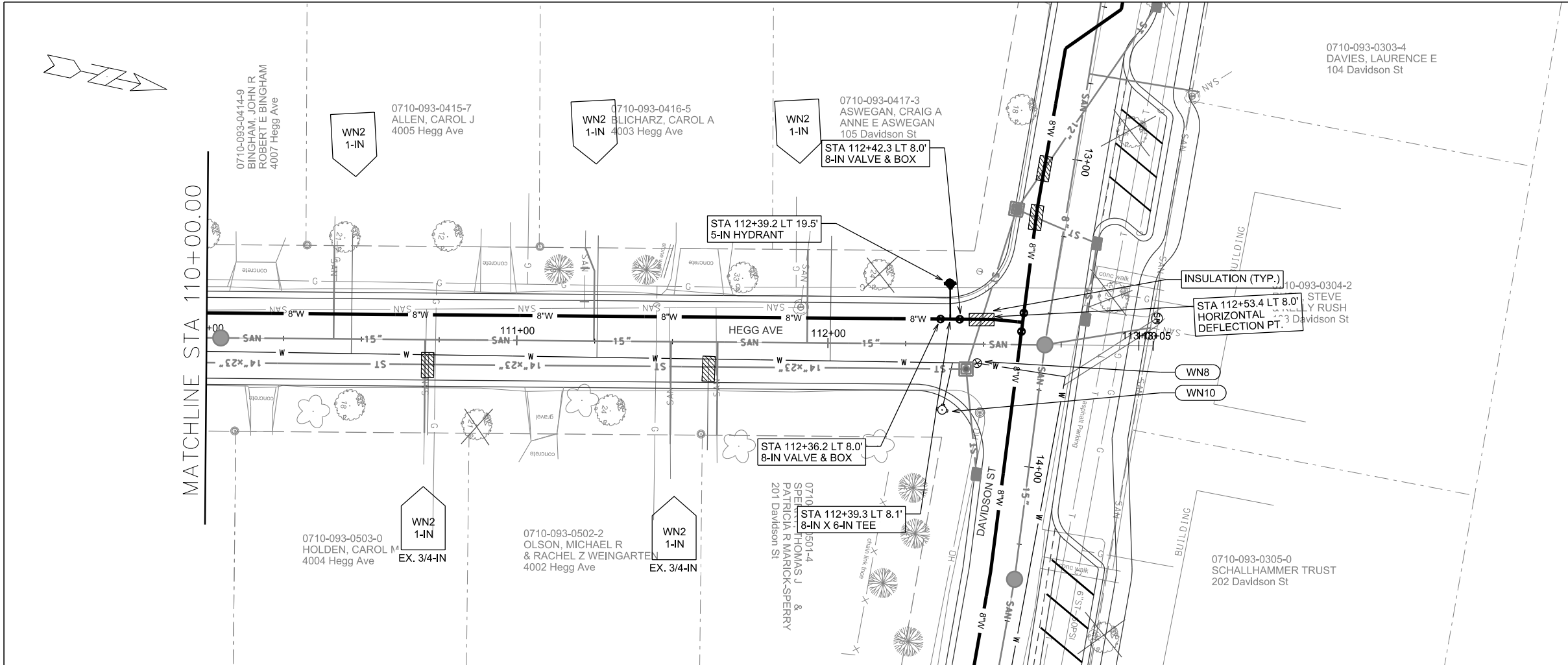
06/28/2018 AJ'S ADDED ANNOTATION



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

WATER PLAN AND PROFILE
HEGG AVE CITY OF MADISON



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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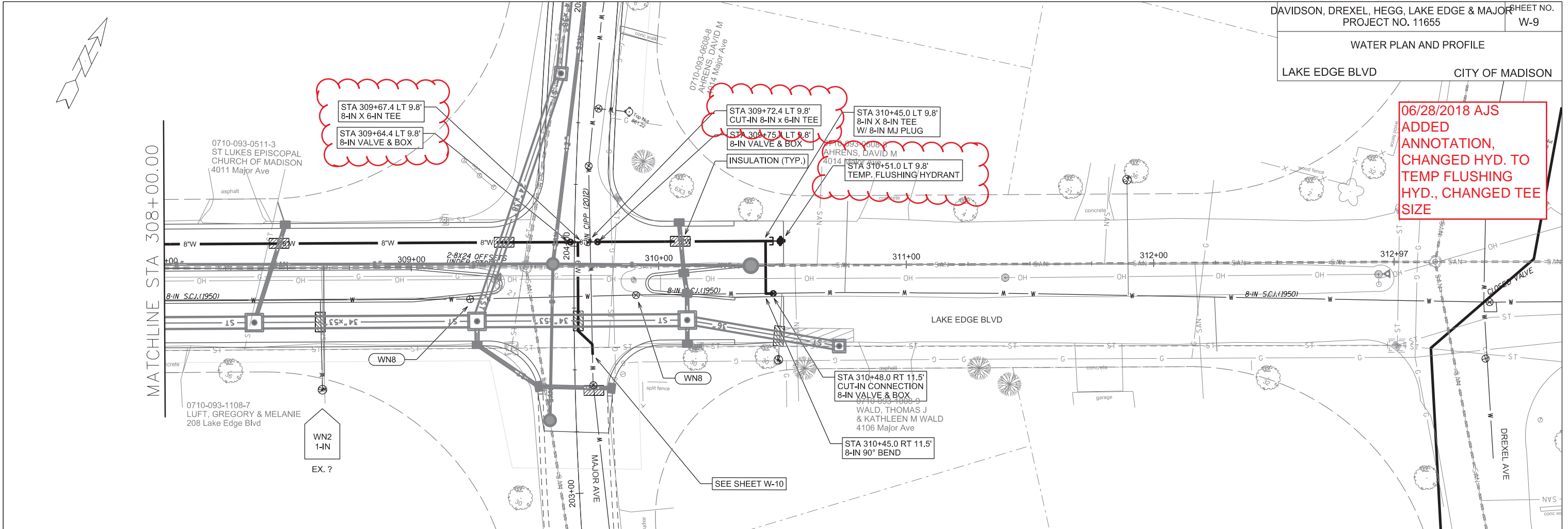
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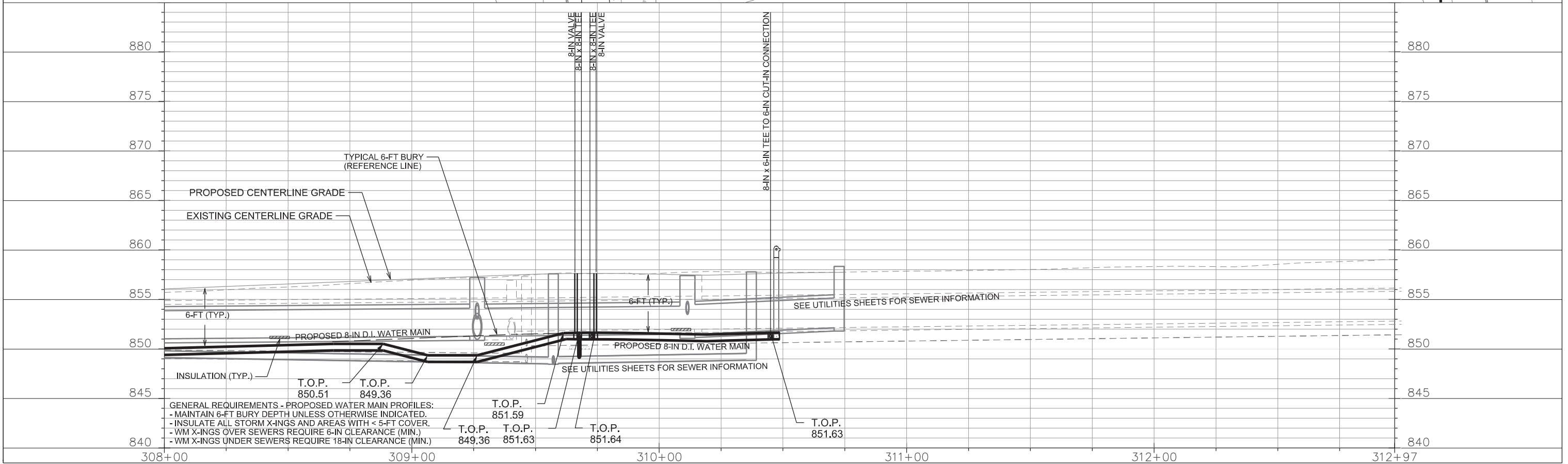
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
LAKE EDGE BLVD CITY OF MADISON



06/28/2018 AJA
ADDED
ANNOTATION,
CHANGED HYD. TO
TEMP FLUSHING
HYD., CHANGED TEE
SIZE



- GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
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 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
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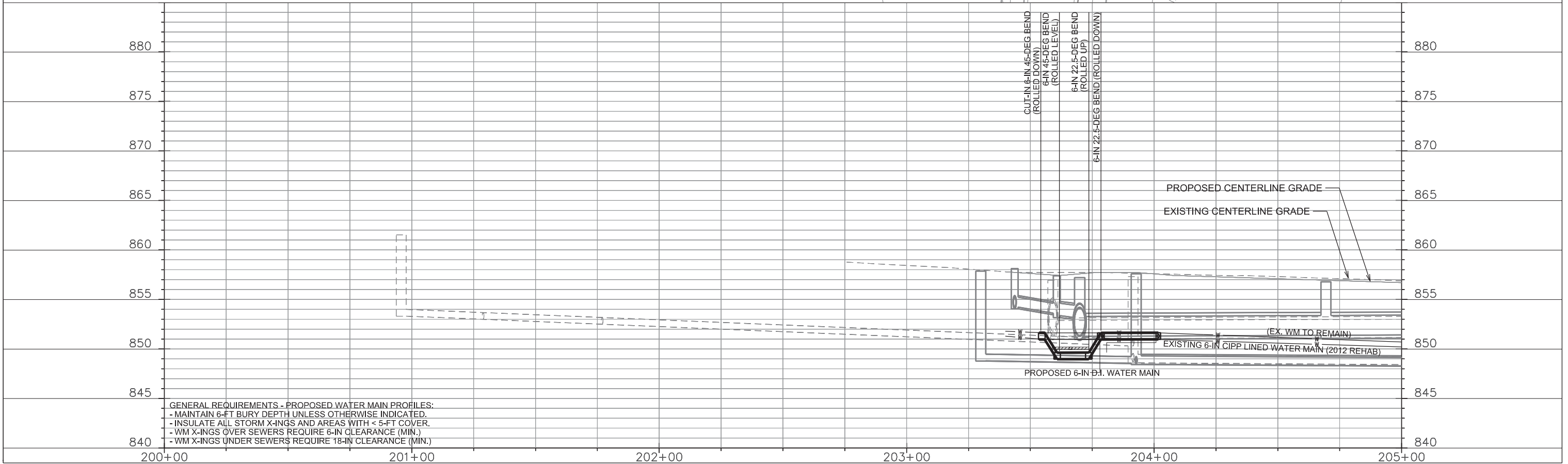
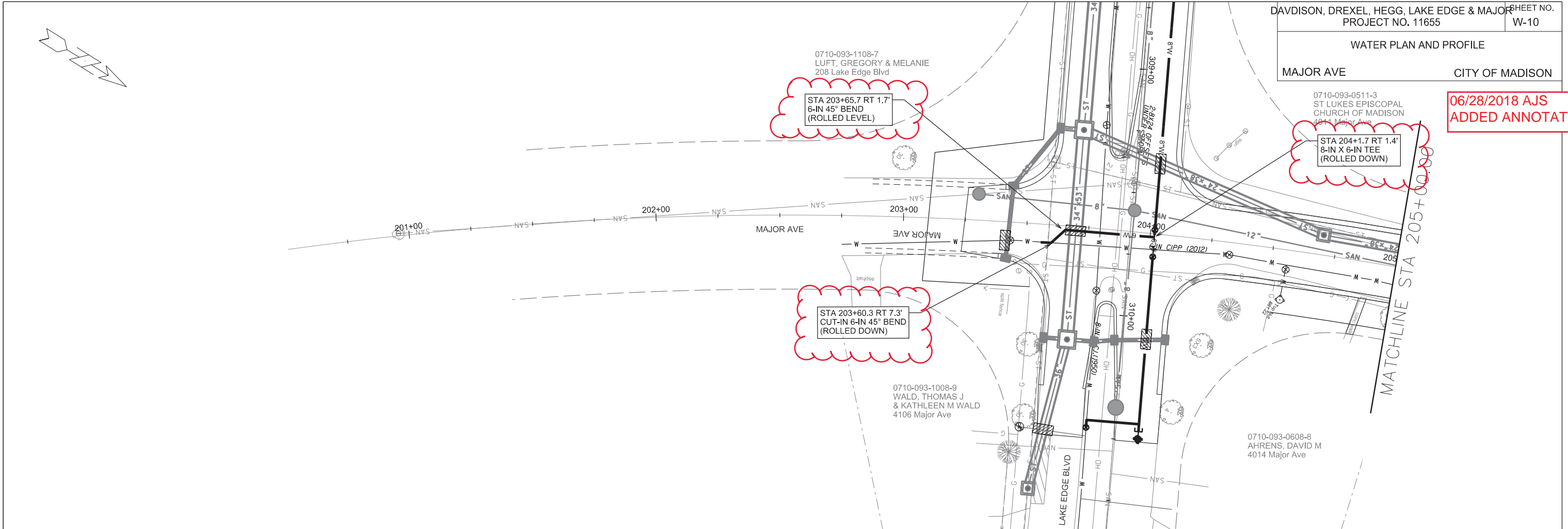
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

06/28/2018 AJA
 ADDED ANNOTATION



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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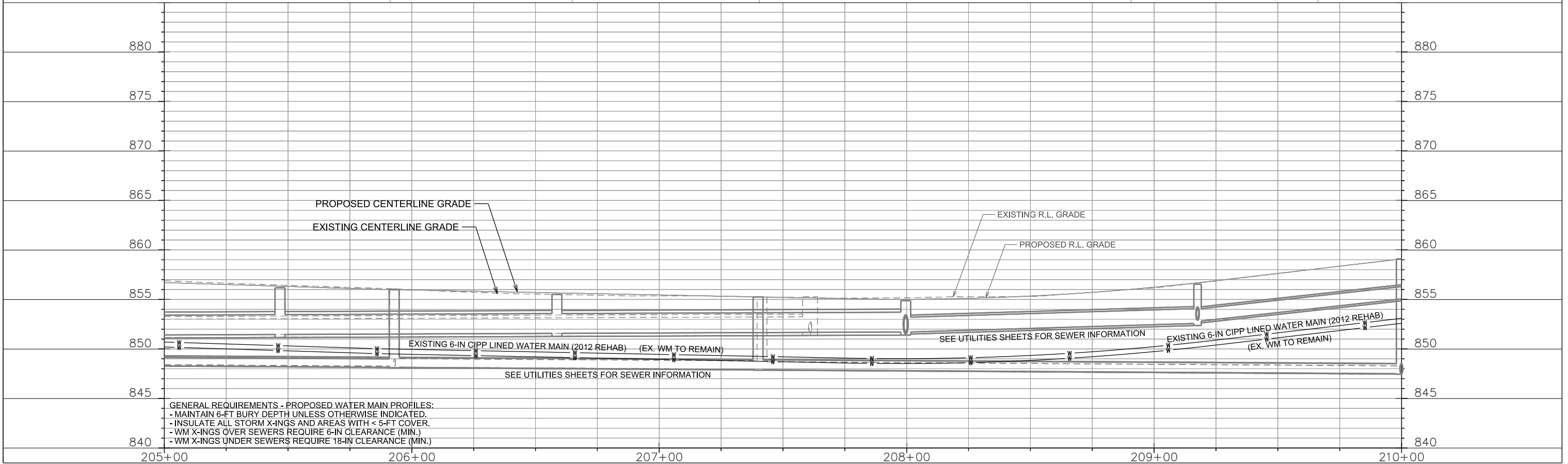
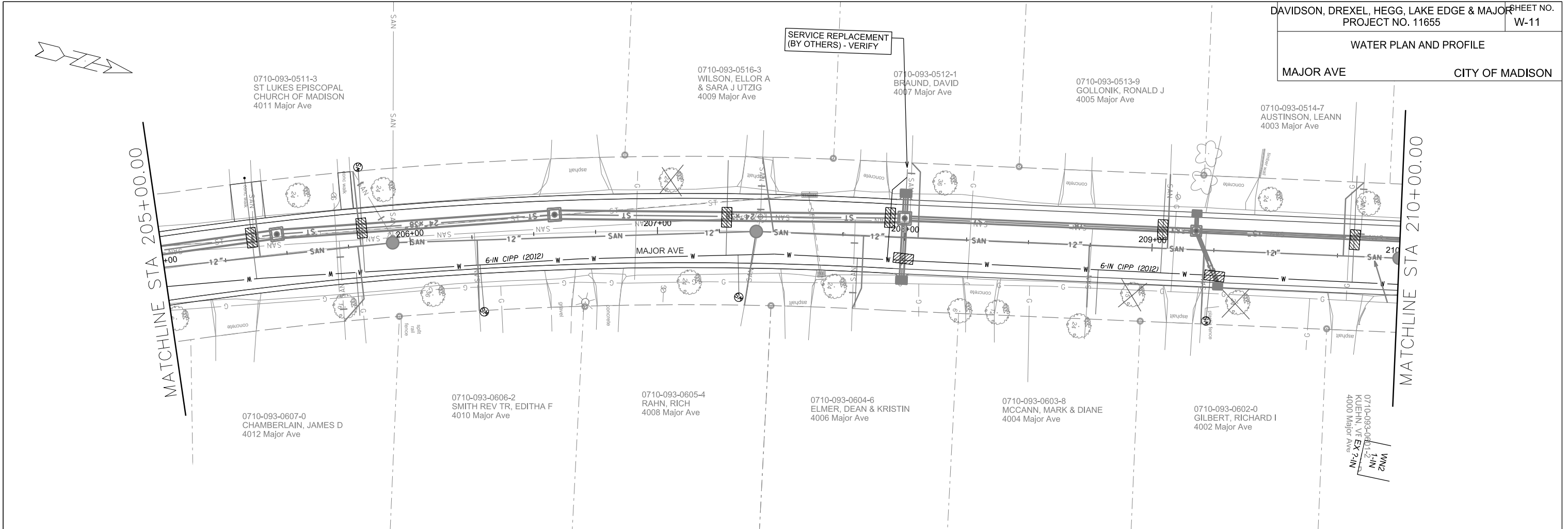
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
 MAJOR AVE CITY OF MADISON



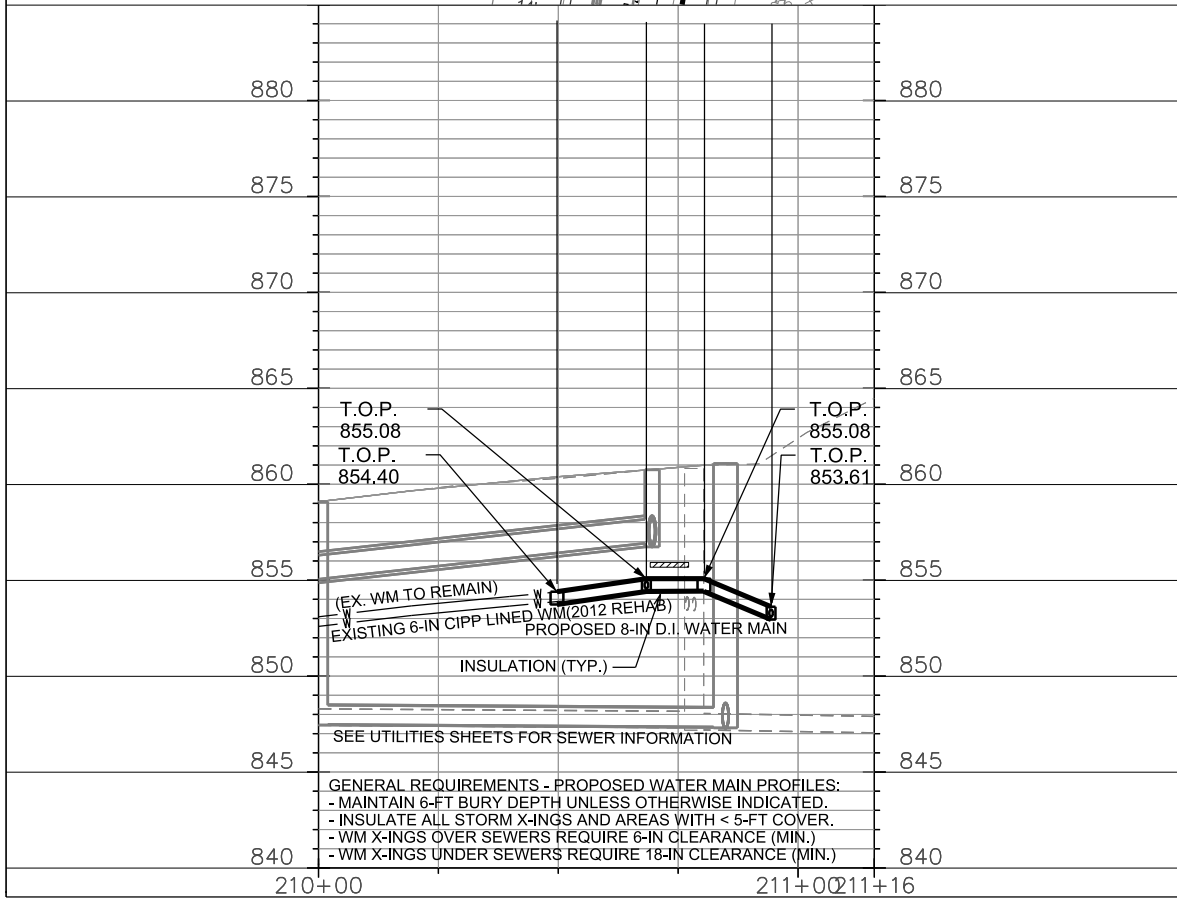
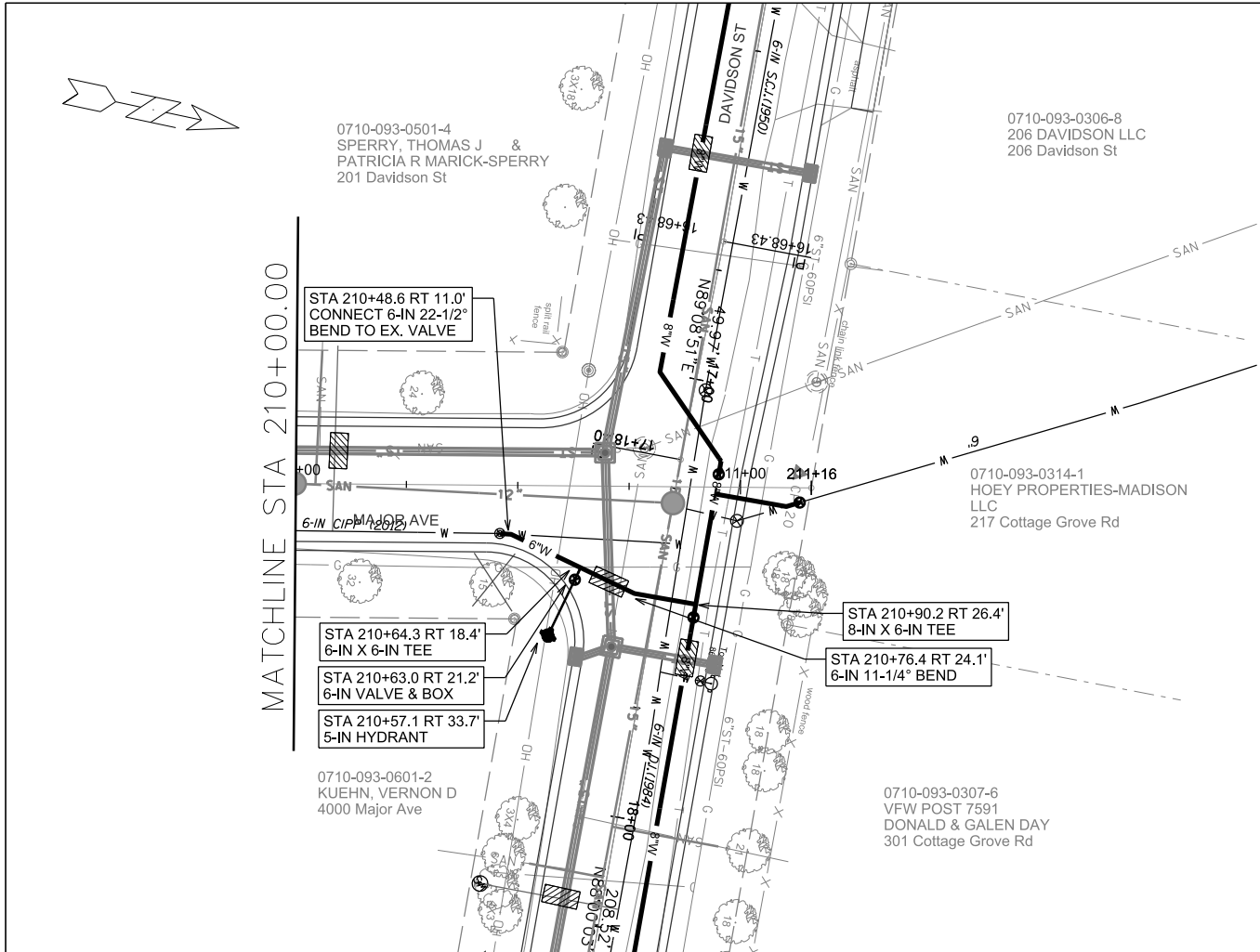
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
 MAJOR AVE CITY OF MADISON

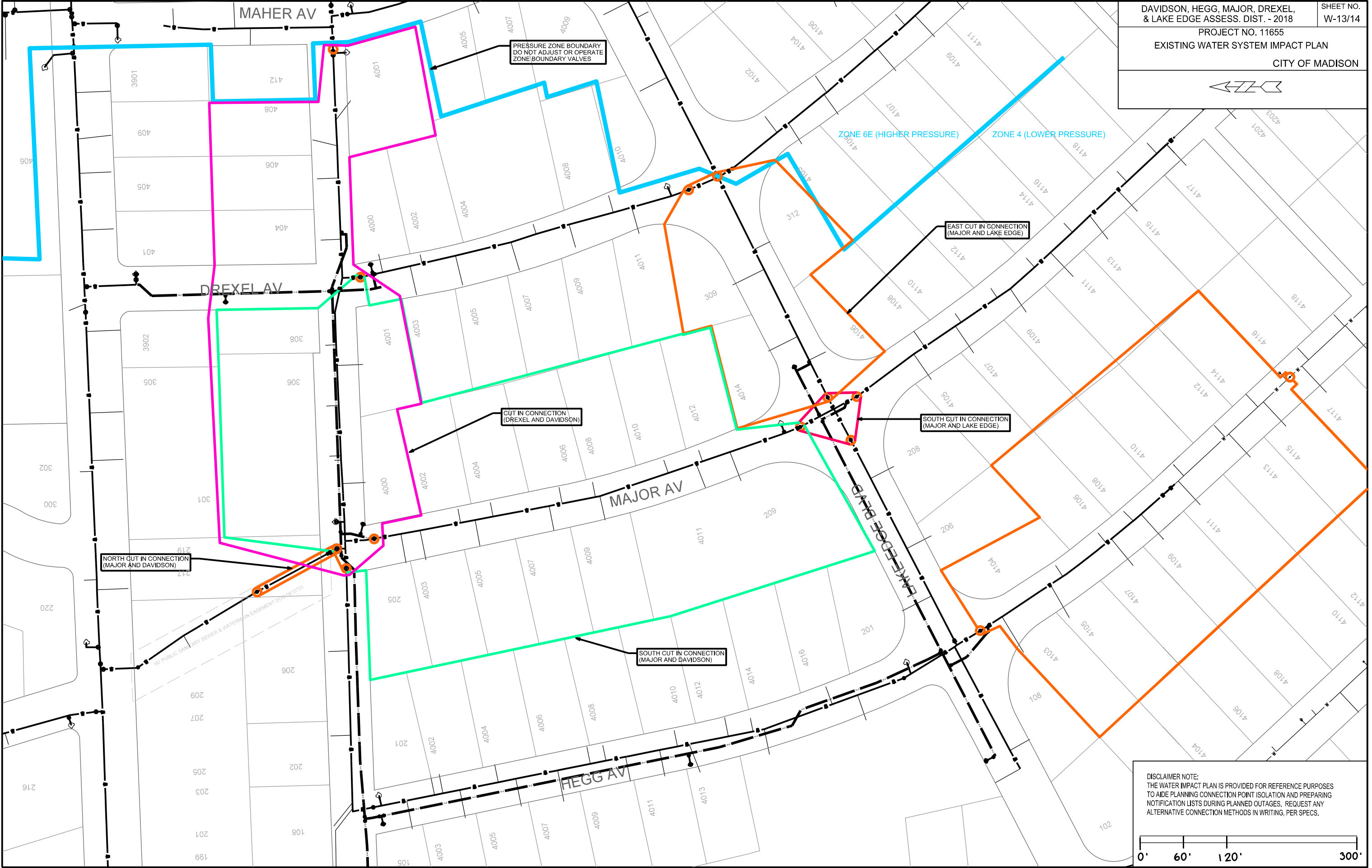


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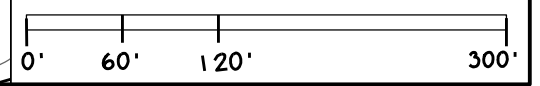
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

06/28/2018 AJS
UPDATED MATERIAL
COUNT

CONSTRUCTION NOTES:

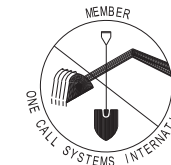
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

WATER MAINS	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	SHEET 6	SHEET 7	SHEET 8	SHEET 9	SHEET 10	SHEET 11	SHEET 12	TOTAL
6-IN PIPE (LF)													260.0
8-IN PIPE (LF)													3200.0
POLY WRAP													3960.0
6-IN VALVES & BOXES		1	1	3		1		1				1	8
8-IN VALVES & BOXES	2	2	2	1	3		2	1	3				16
6-IN X 6-IN TEES				1								1	2
8-IN X 6-IN TEES		2	1	2		1	1	1	2	1		1	12
8-IN X 8-IN TEES	1				3			2	1				7
8-IN X 8-IN CROSSES			1	1									2
8-IN X 6-IN REDUCERS	1												1
6-IN - 11-1/4° BENDS												1	1
6-IN - 22-1/2° BENDS			2		2							1	5
6-IN - 90° BENDS			1										1
8-IN - 11-1/4° BENDS				1									1
8-IN - 22-1/2° BENDS			2	2	2								4
8-IN - 45° BENDS		2		2		2							6
8-IN - 90° BENDS					1				1				2
8-IN MJ CAPS				1									1
8-IN MJ PLUGS			1		1			1	1				4
HYDRANT				3		1	1	1	1			1	8
CUT-IN CONNECTION	1	1	1	1	1			2	1			1	9
INSULATION	16	16	16	16	16	64	24	32	40	16	64	16	336

MATERIALS SUPPLIED BY CITY:

* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

NONE

ESTIMATE OF MATERIALS SALVAGED:

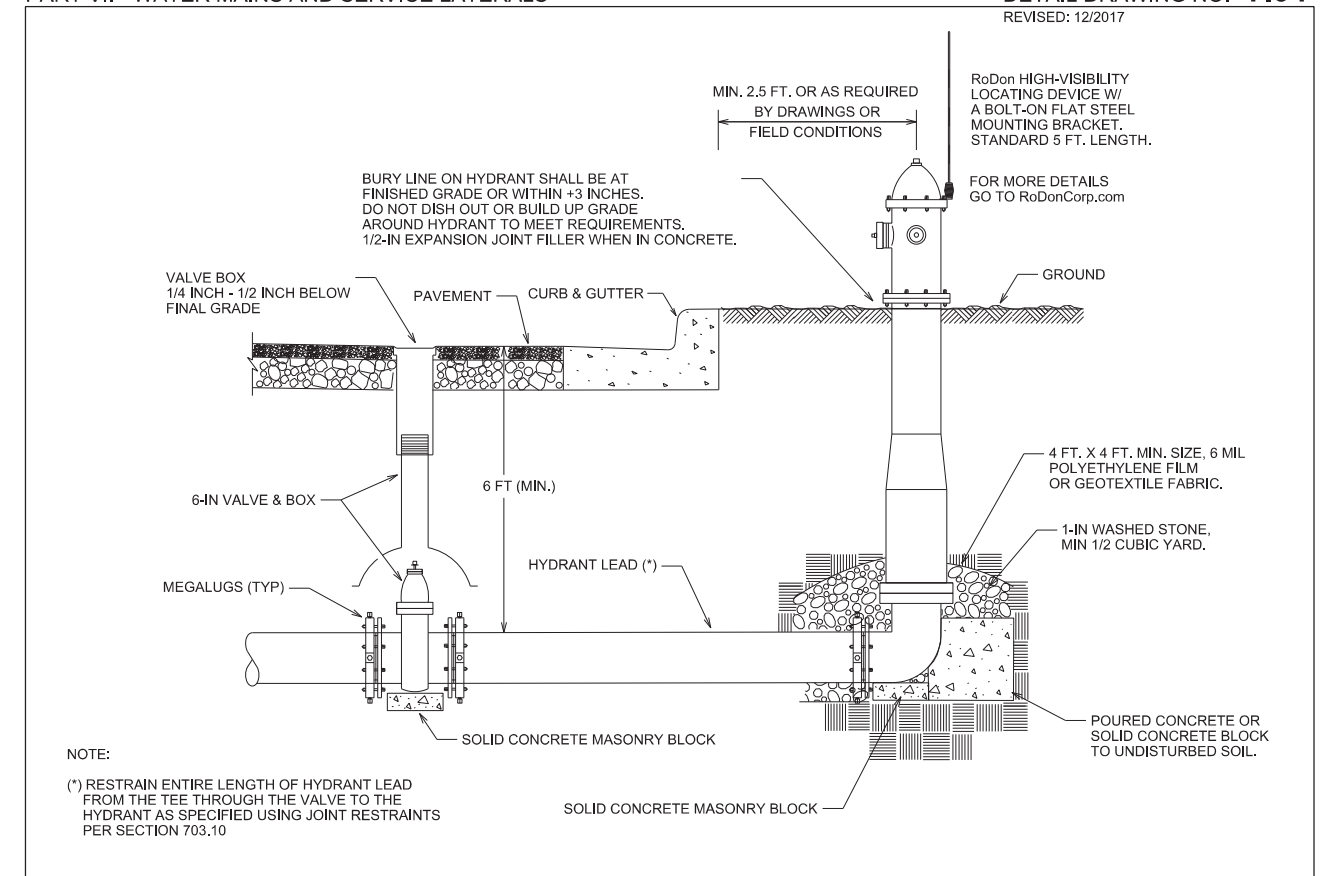
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

ALL REMOVED HYDRANTS
2 - 6-IN VALVE

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2017



NOTE:

(*) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

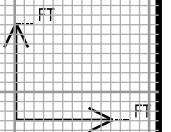
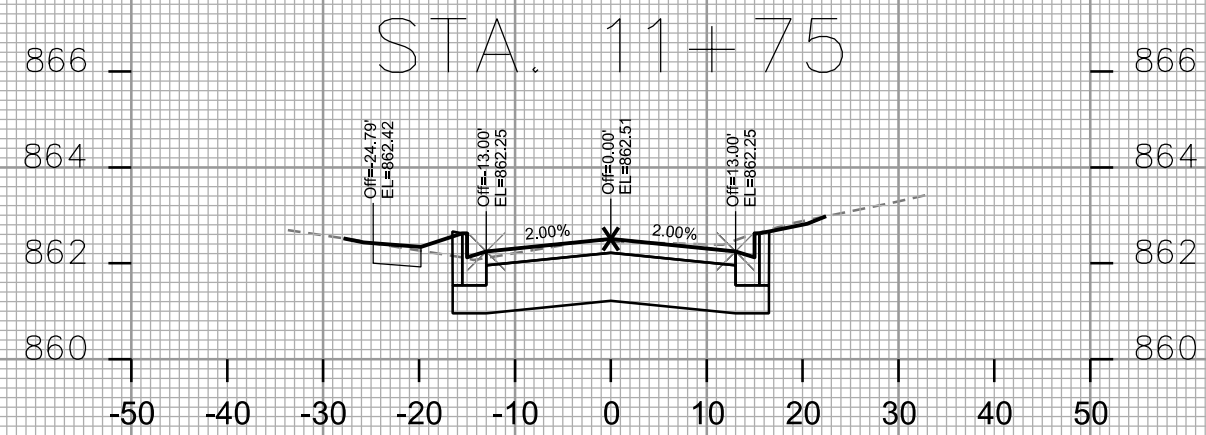
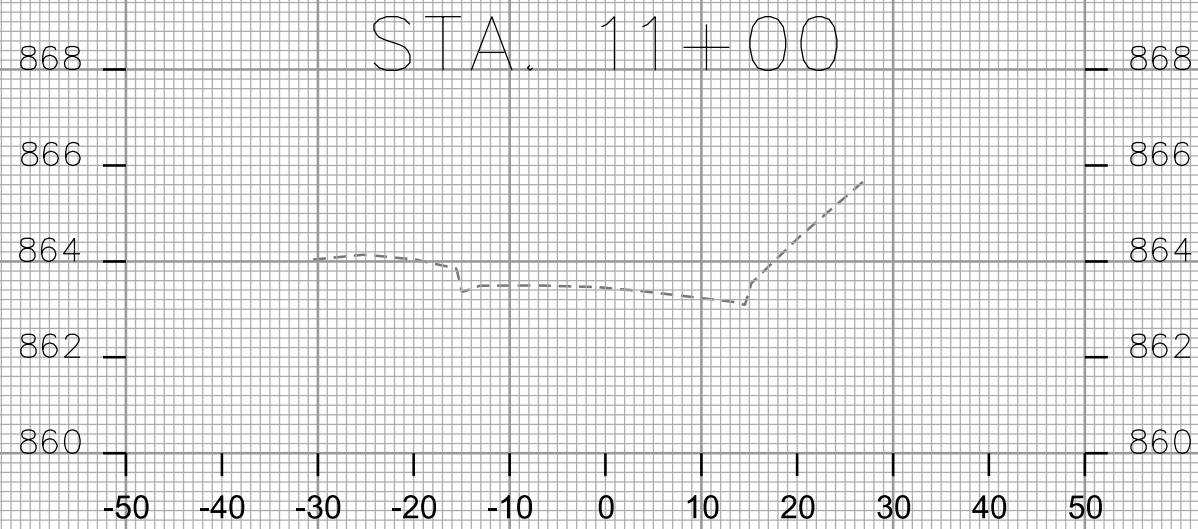
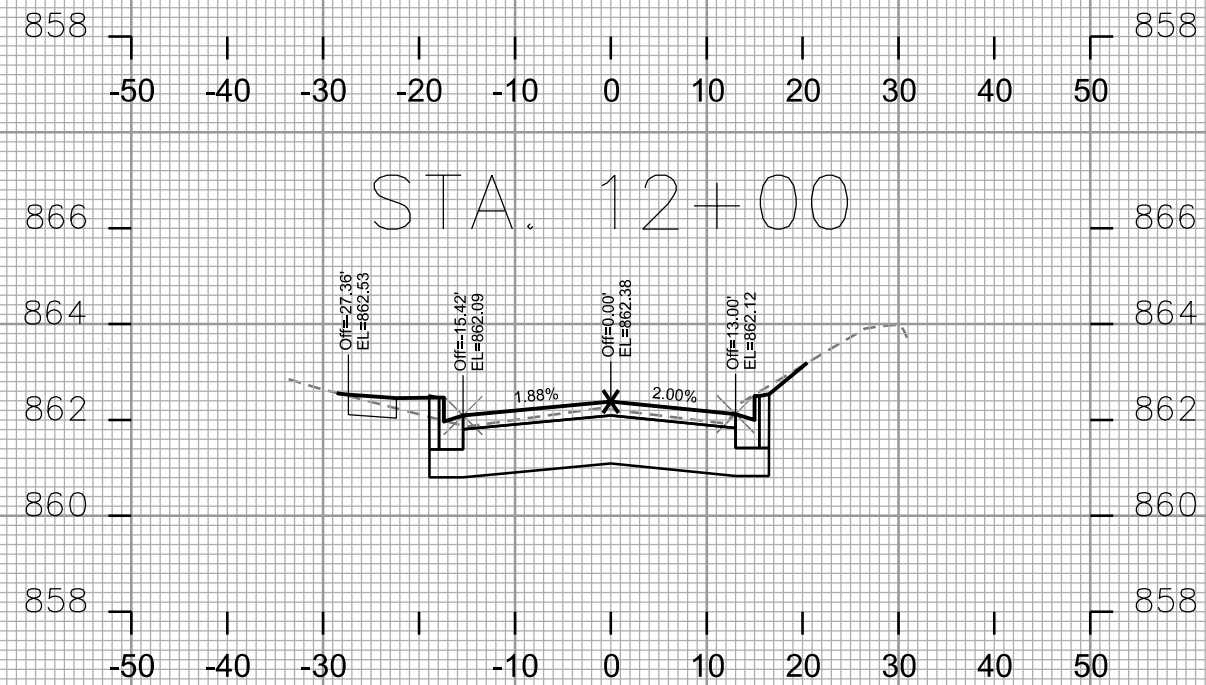
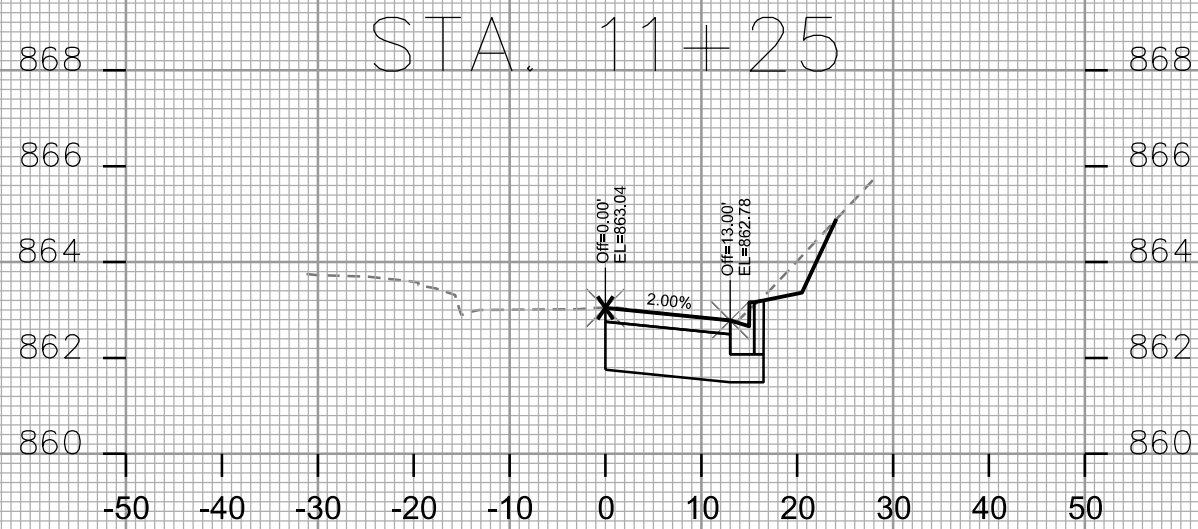
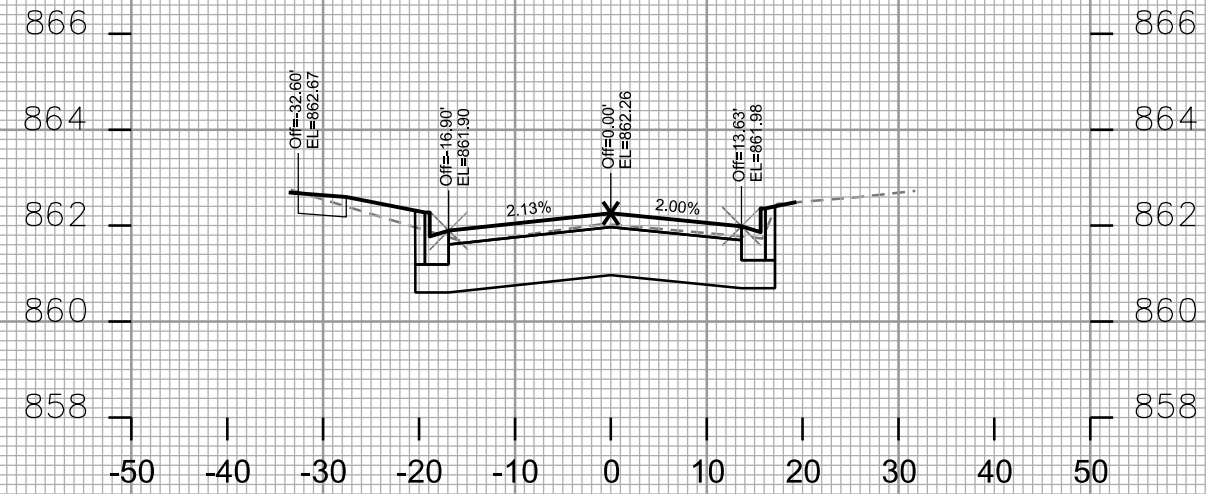
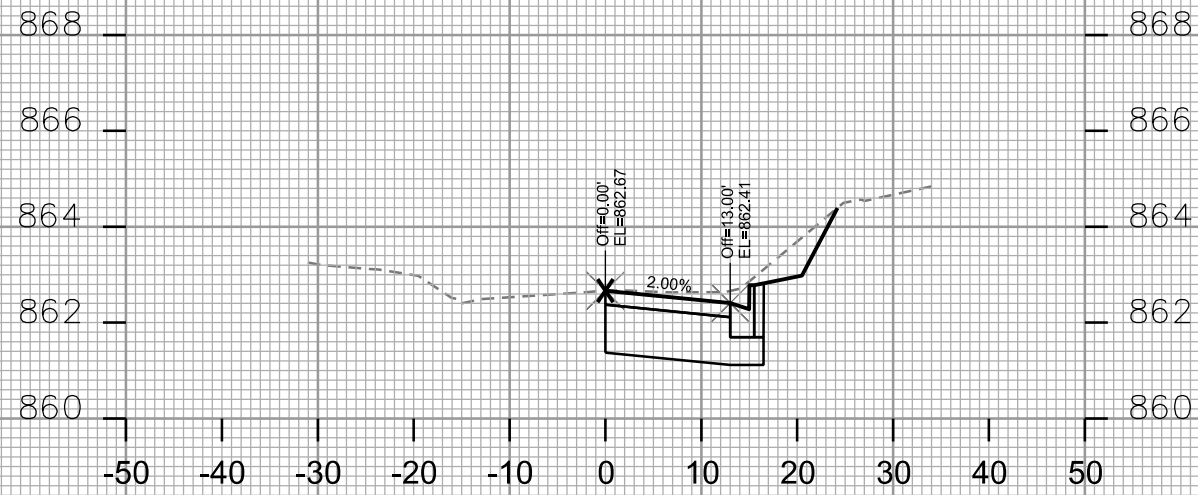
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: CURB & SIDEWALK OFFSETS & ELEVATIONS HAVE BEEN REVISED FOR STATIONS 12+50 THRU 16+50. SEE SHEETS D-2 AND P-1 AND P-2 FOR REVISED CURB AND SIDEWALK GRADES.

DO NOT USE

DO NOT USE

STA. 12+75

STA. 13+50

STA. 12+50

STA. 13+25

STA. 12+25

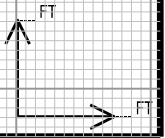
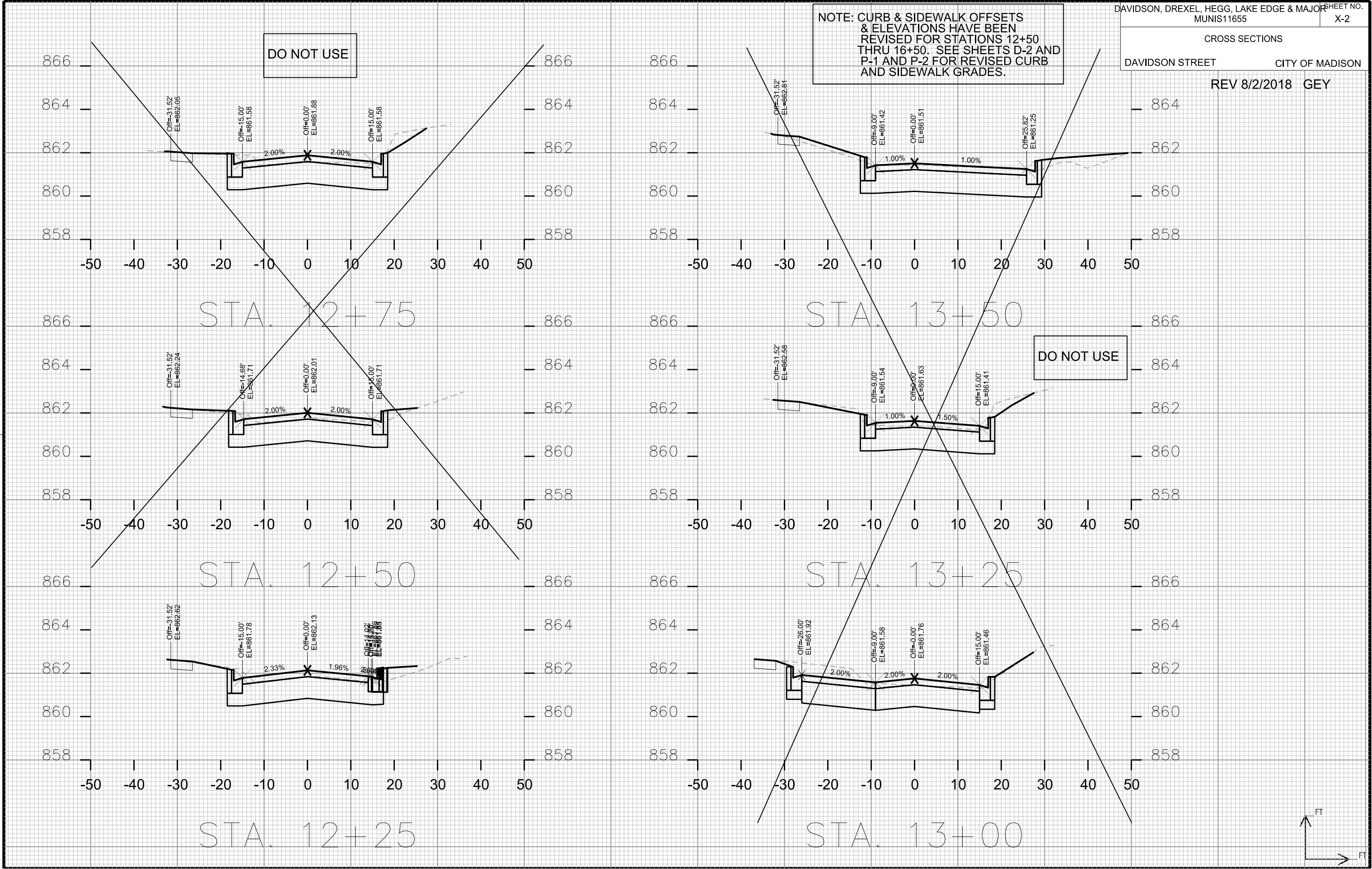
STA. 13+00

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

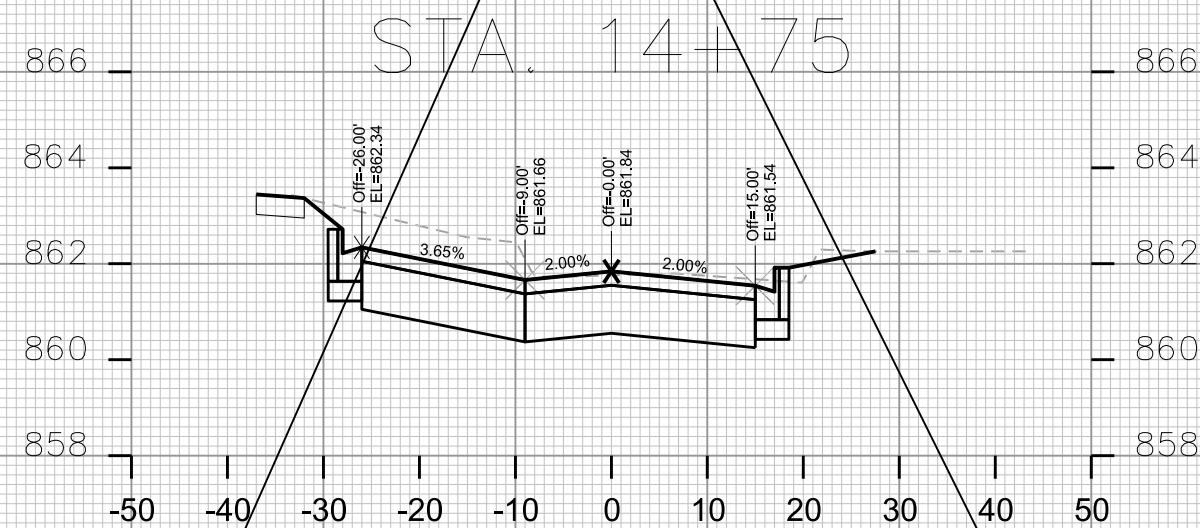
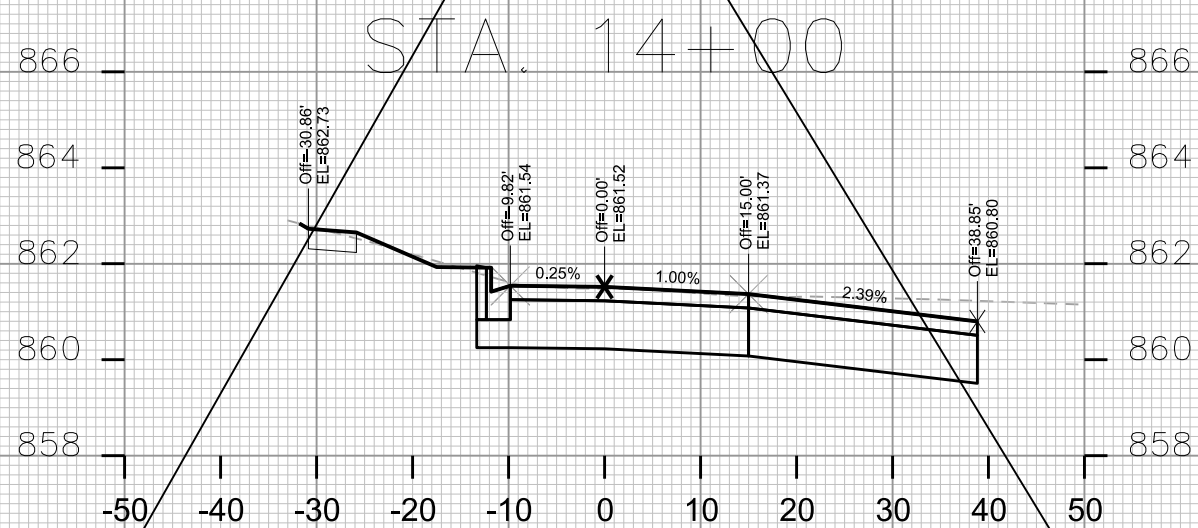
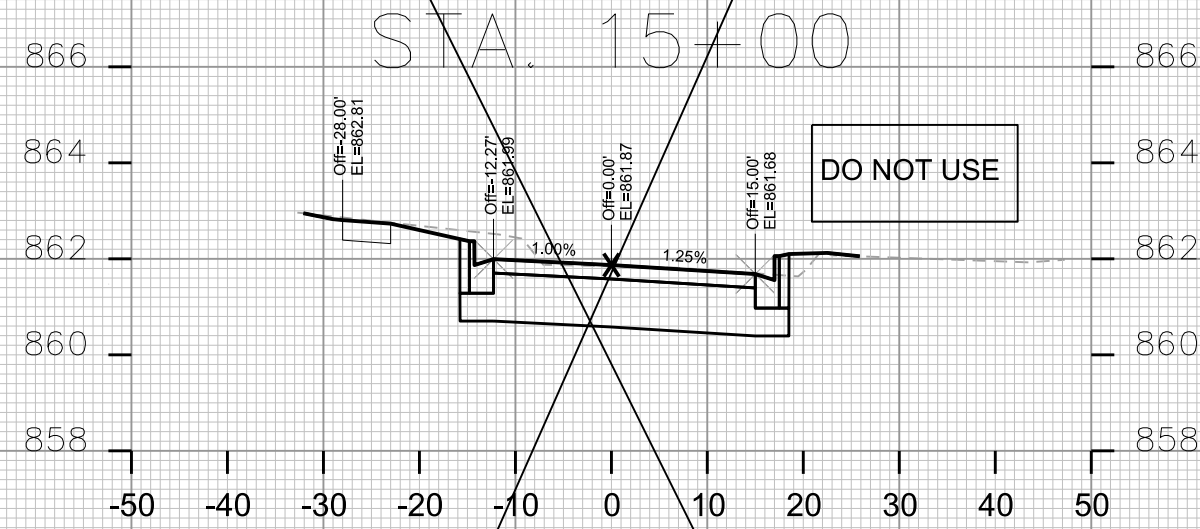
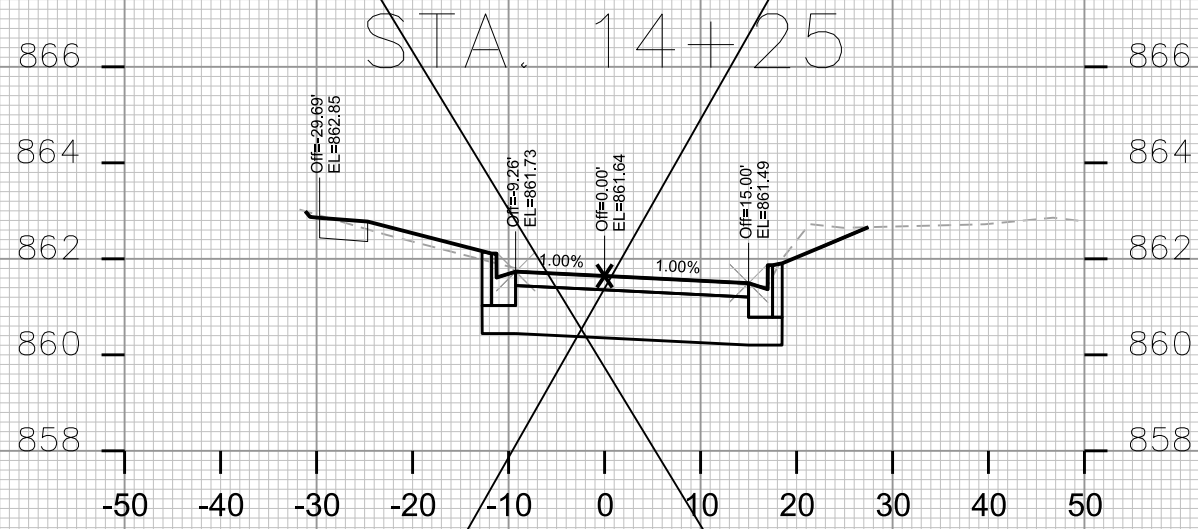
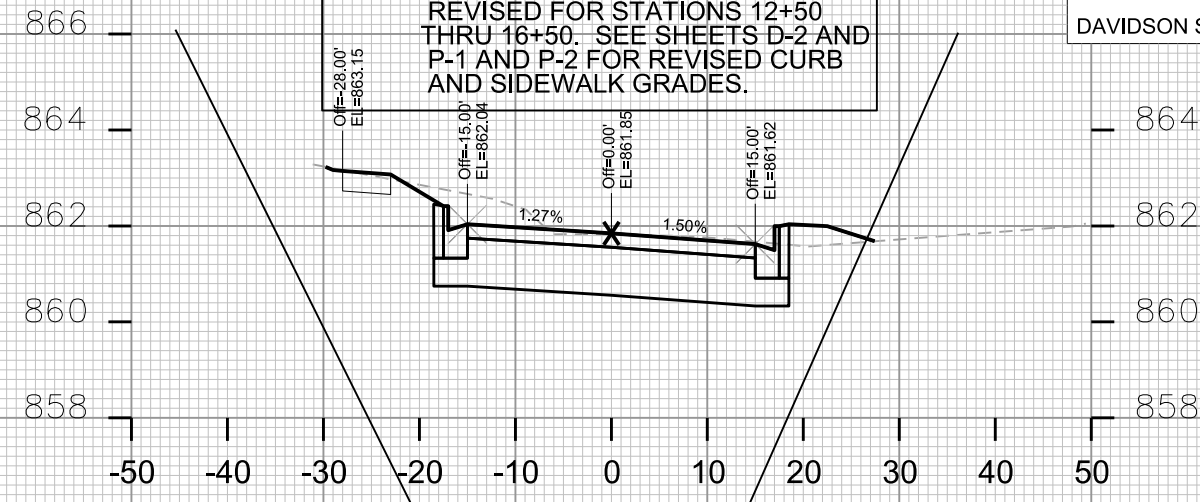
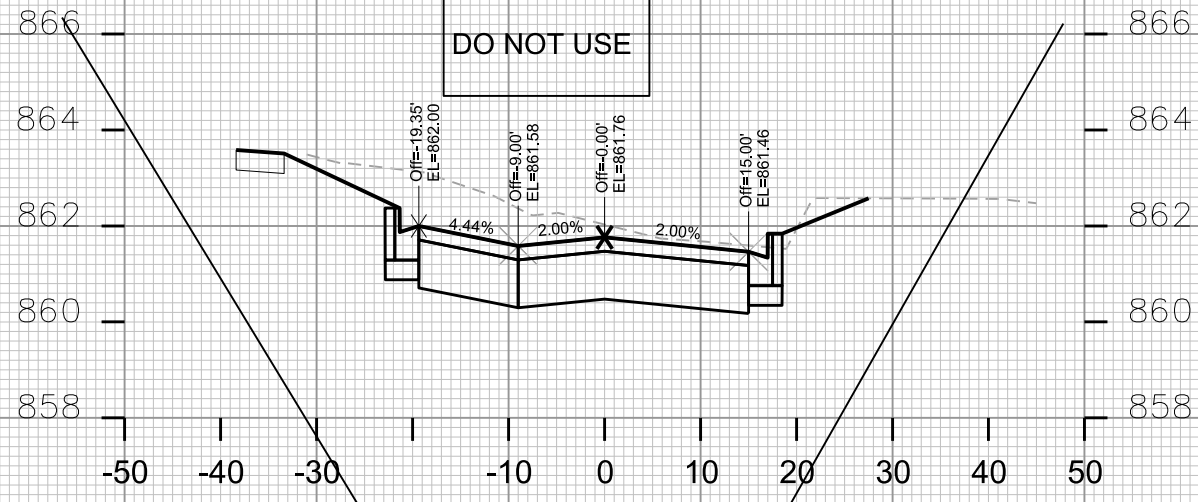
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: CURB & SIDEWALK OFFSETS & ELEVATIONS HAVE BEEN REVISED FOR STATIONS 12+50 THRU 16+50. SEE SHEETS D-2 AND P-1 AND P-2 FOR REVISED CURB AND SIDEWALK GRADES.

DO NOT USE

DO NOT USE



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

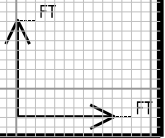
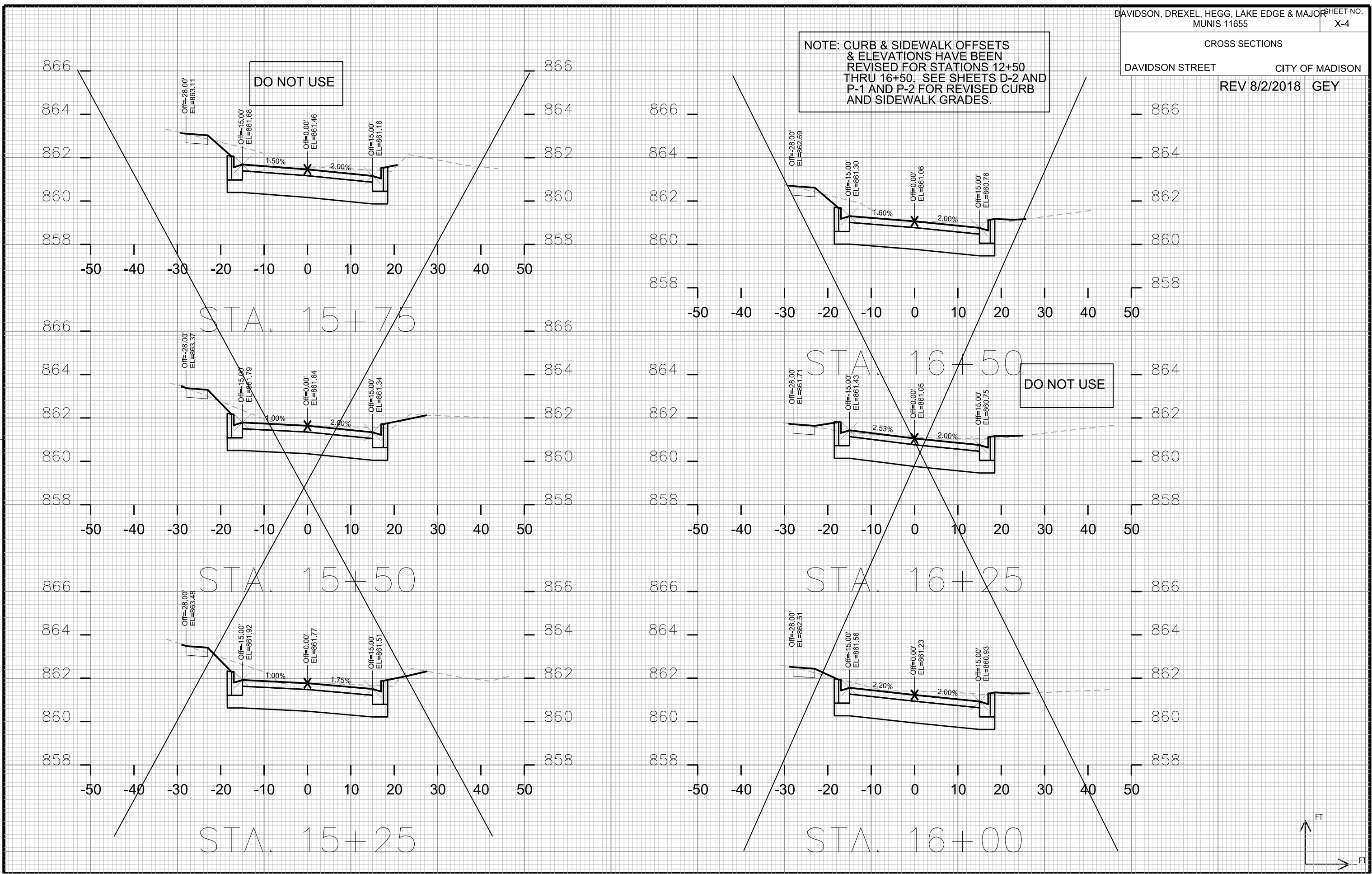
NOTE: CURB & SIDEWALK OFFSETS & ELEVATIONS HAVE BEEN REVISED FOR STATIONS 12+50 THRU 16+50. SEE SHEETS D-2 AND P-1 AND P-2 FOR REVISED CURB AND SIDEWALK GRADES.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



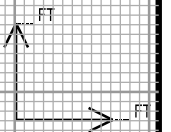
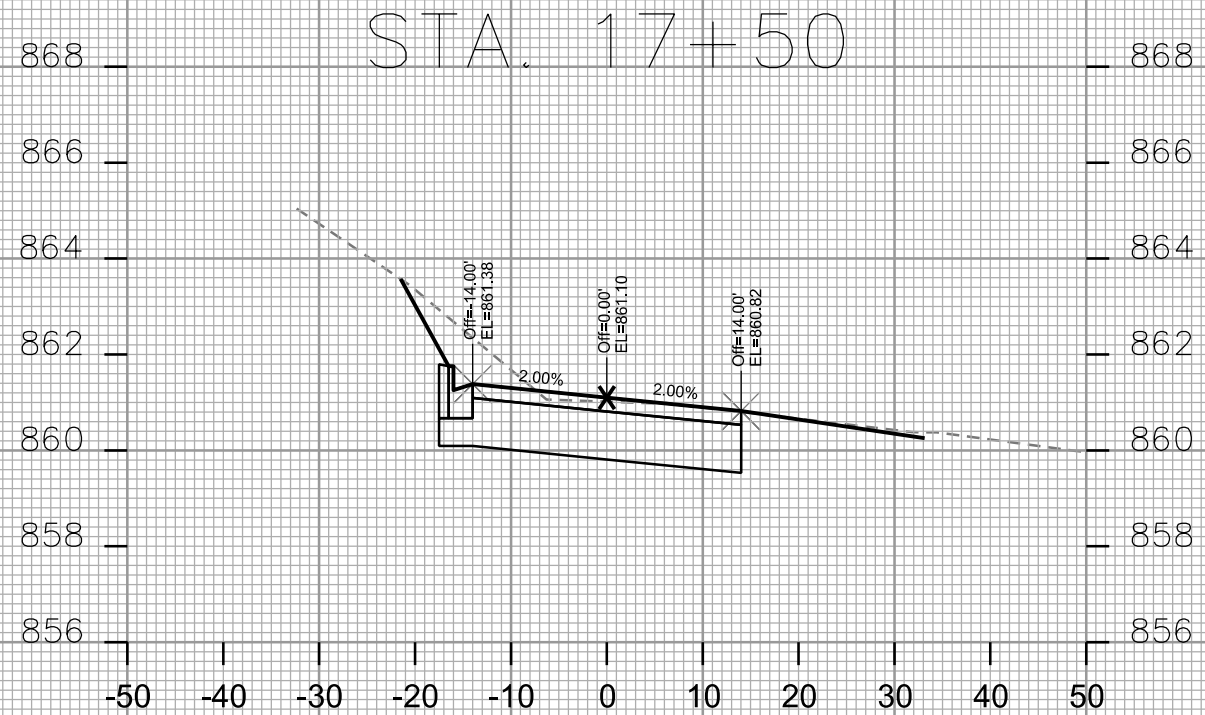
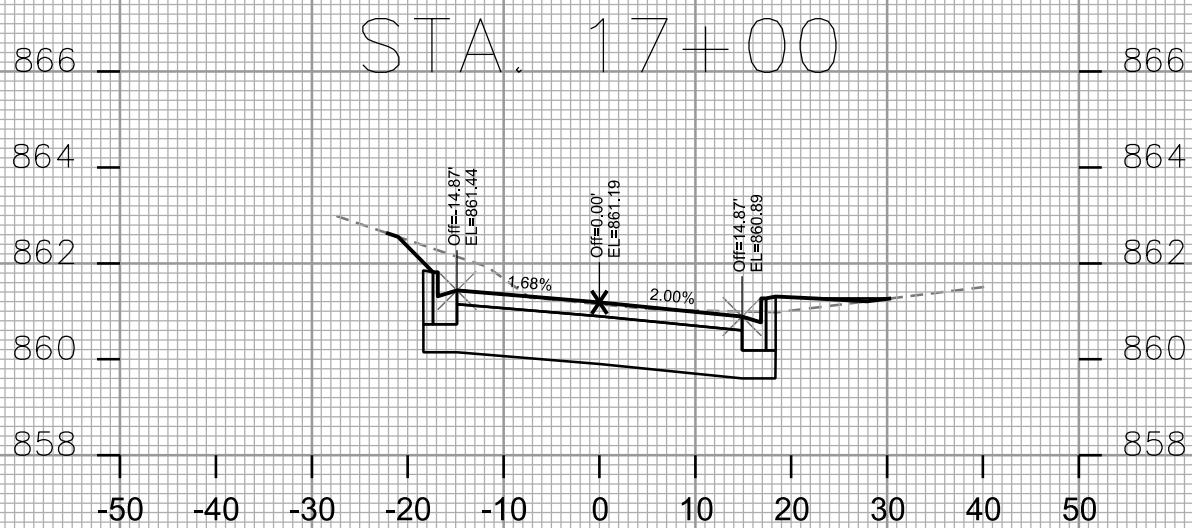
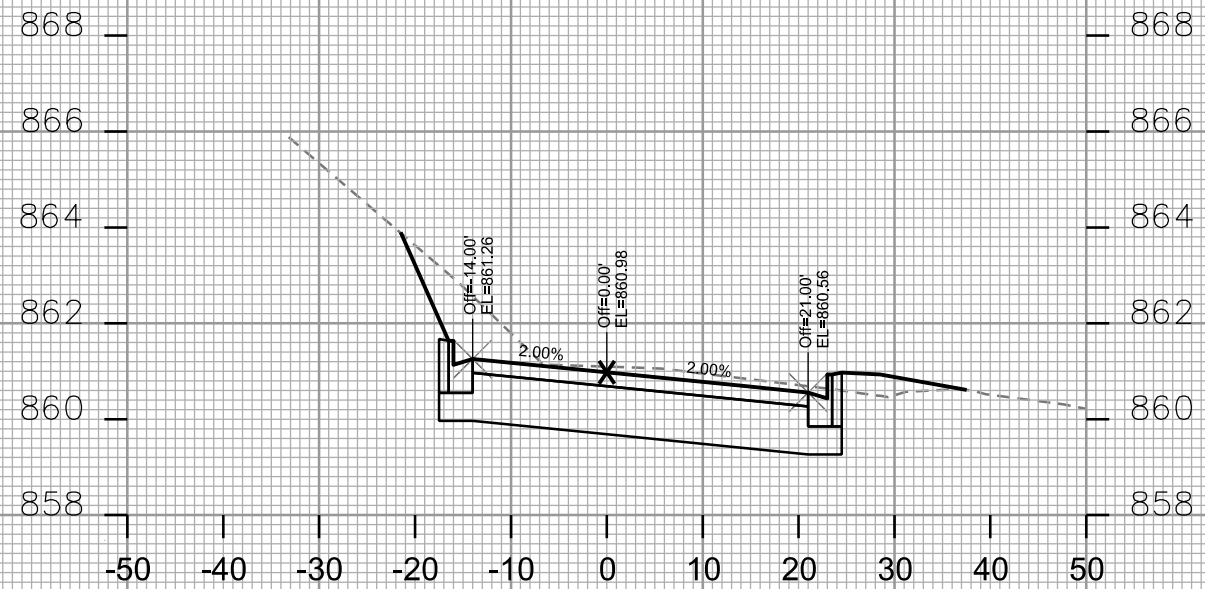
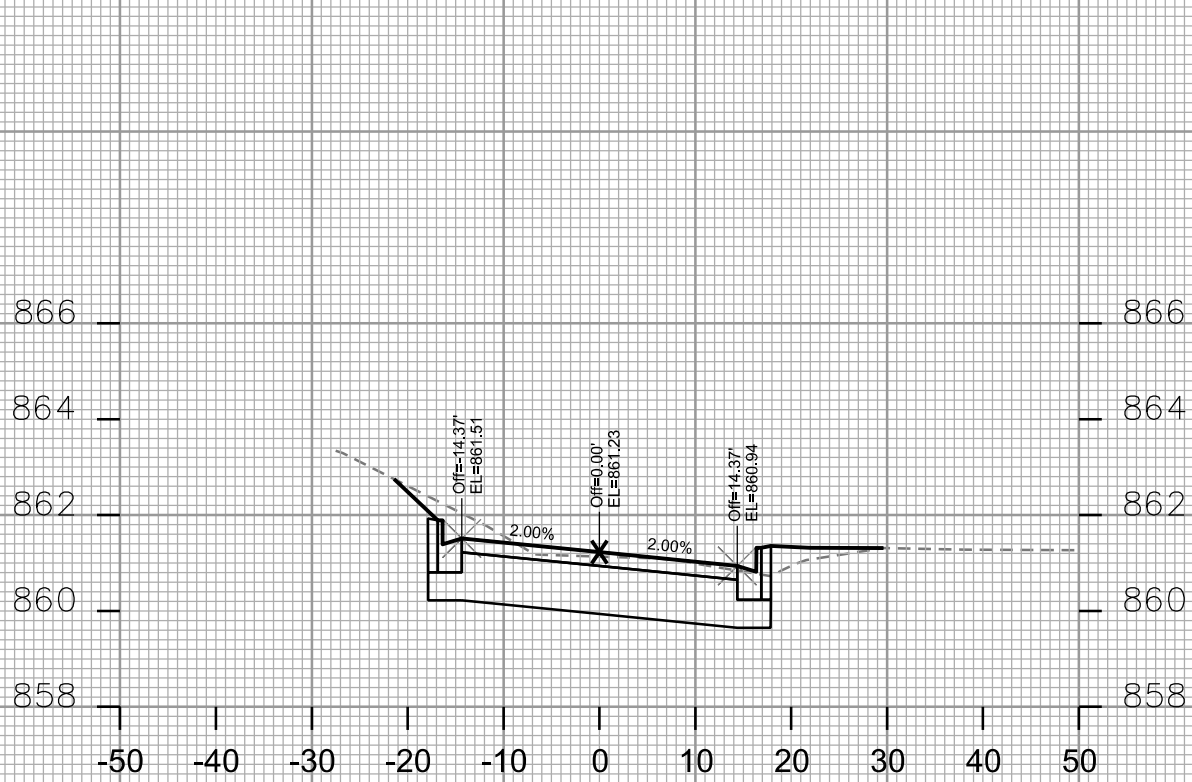
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



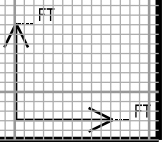
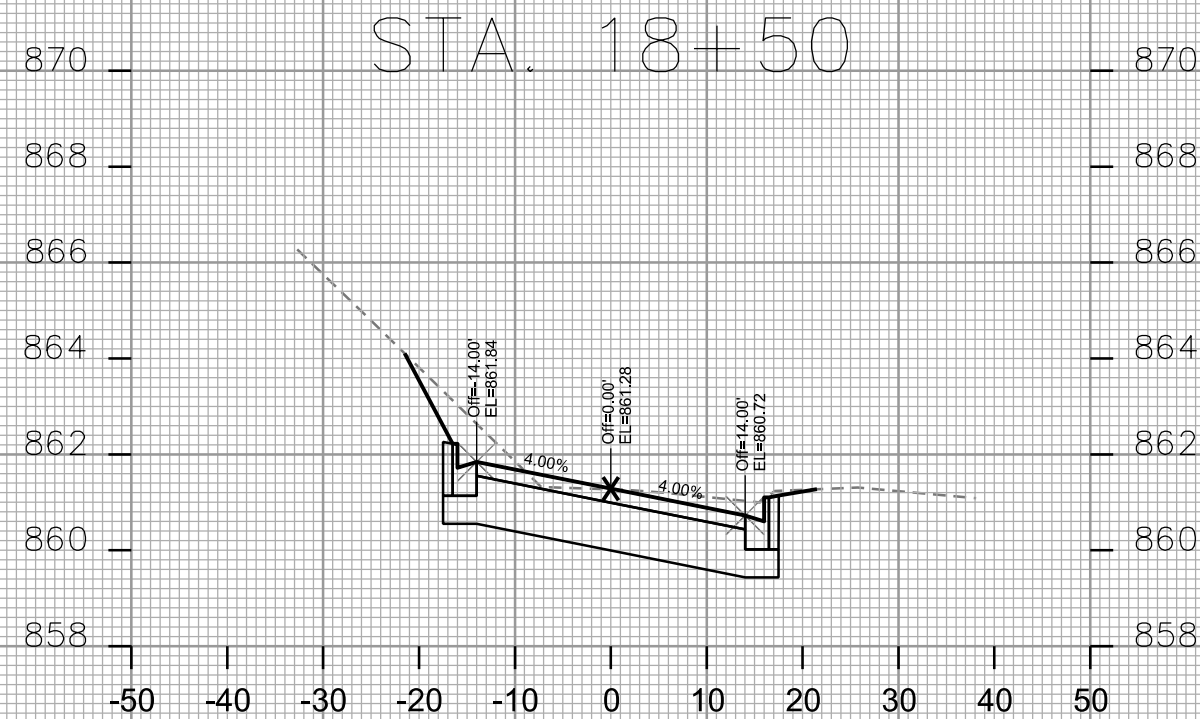
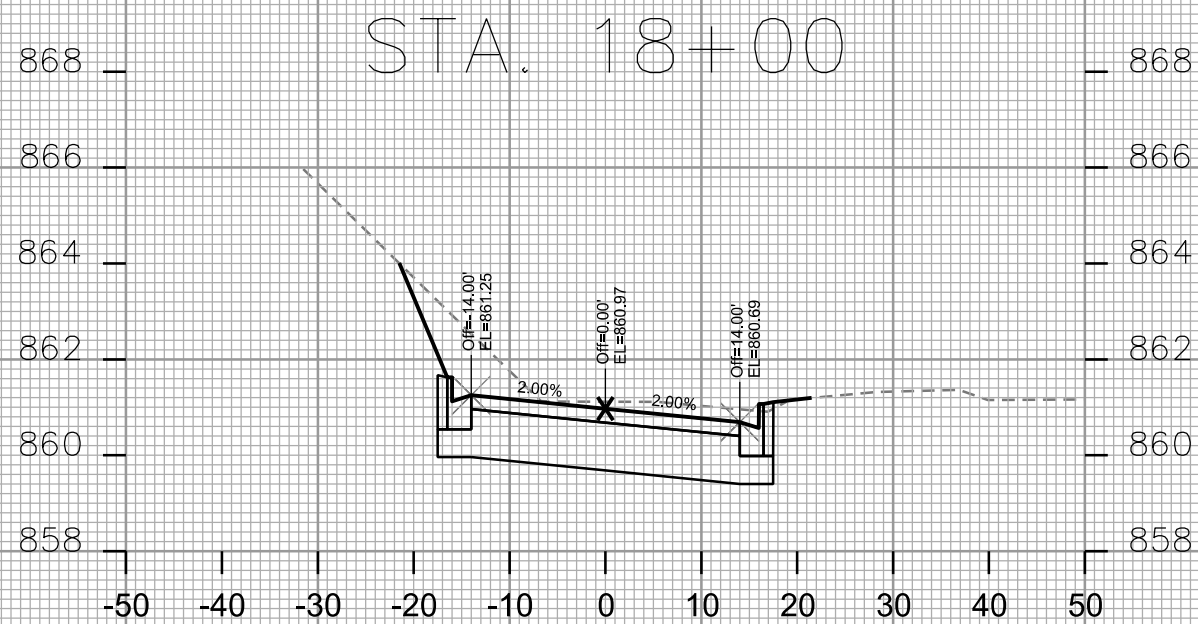
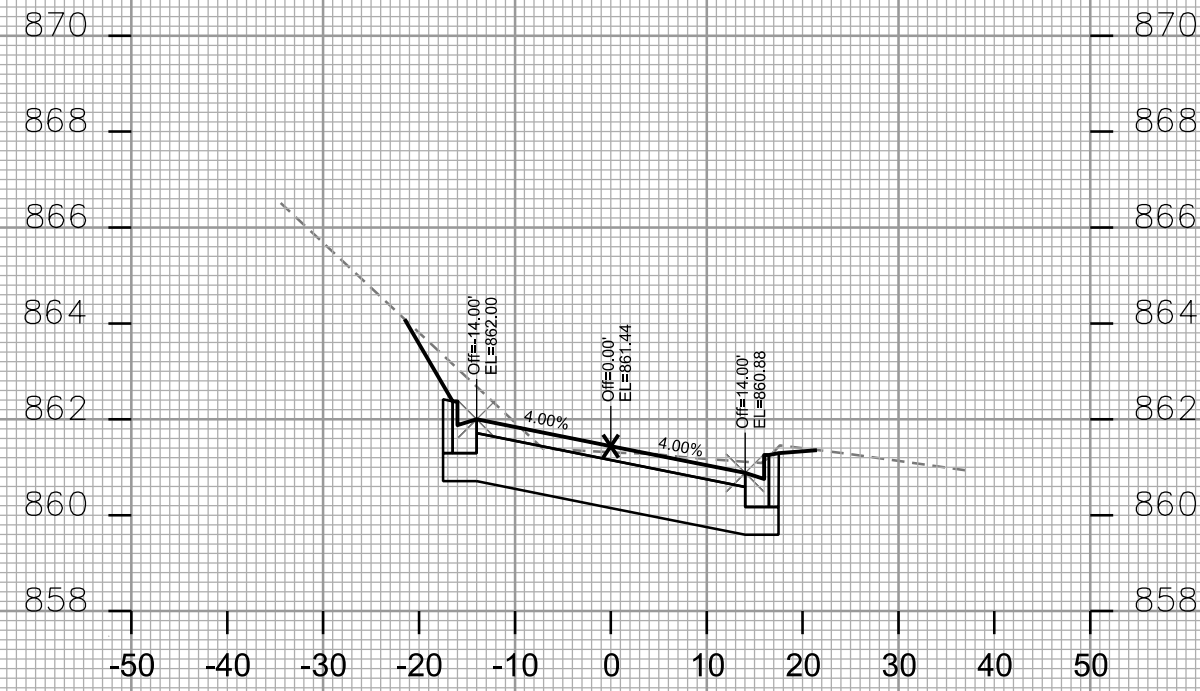
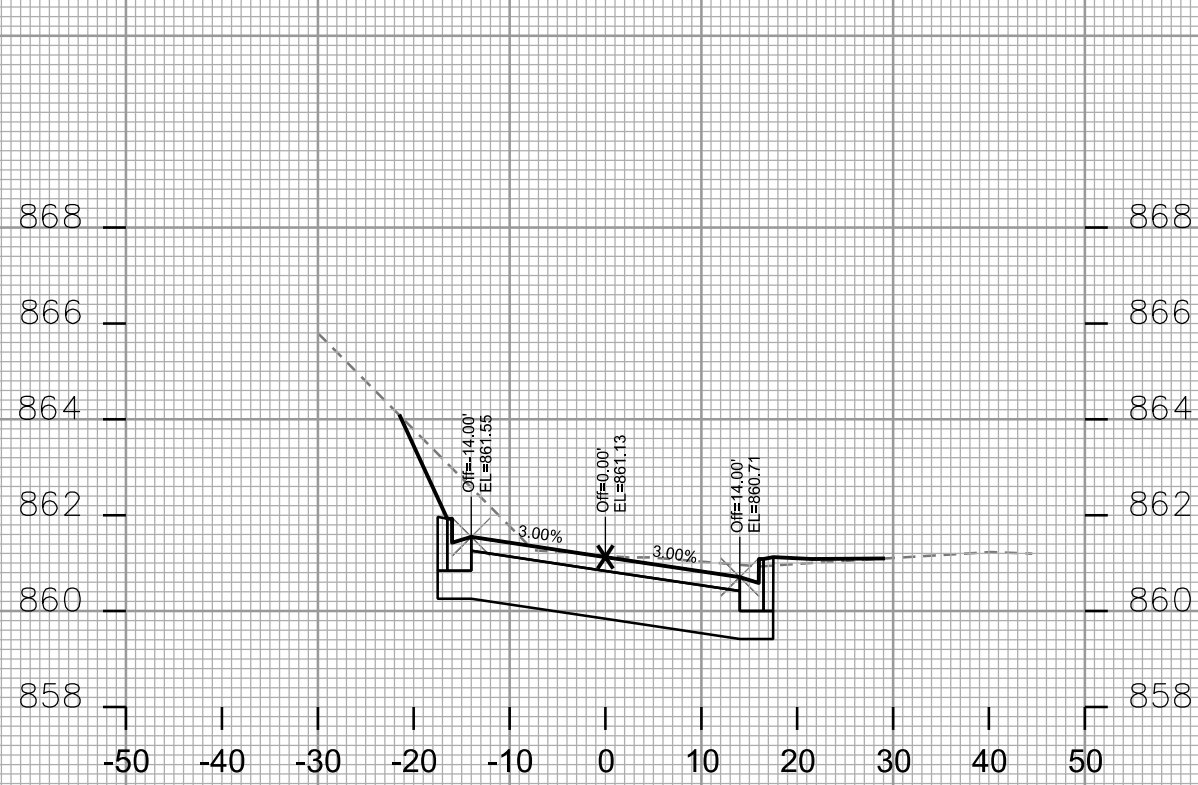
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



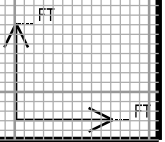
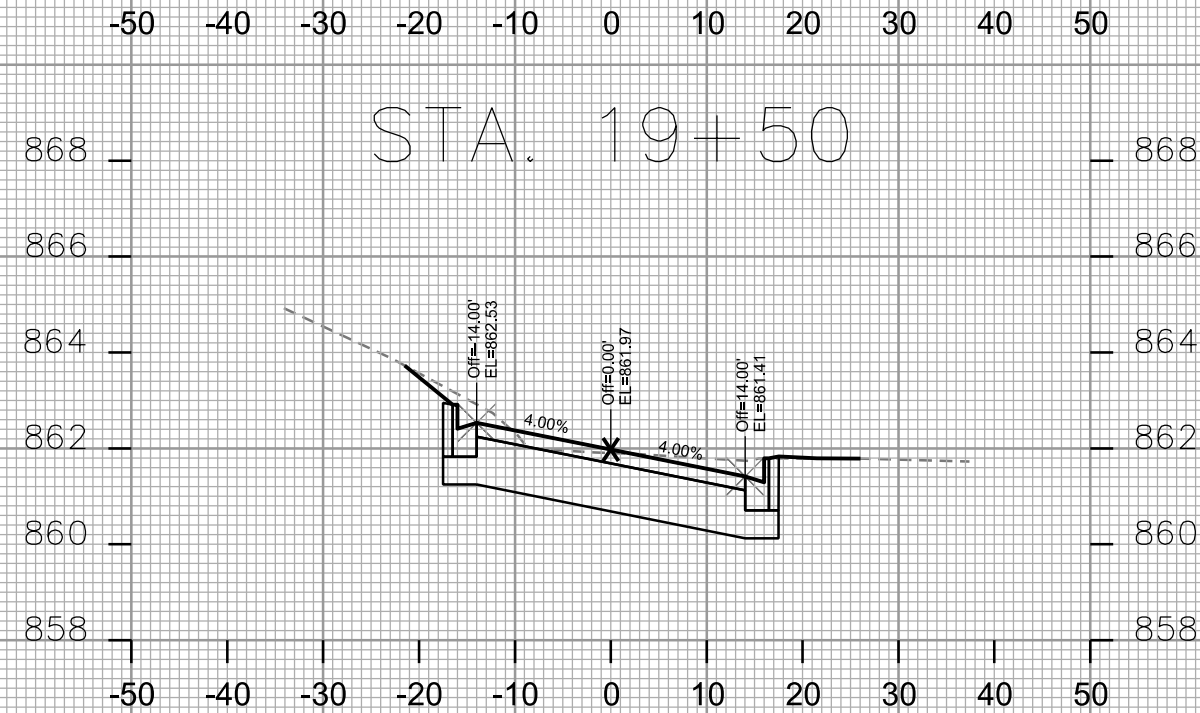
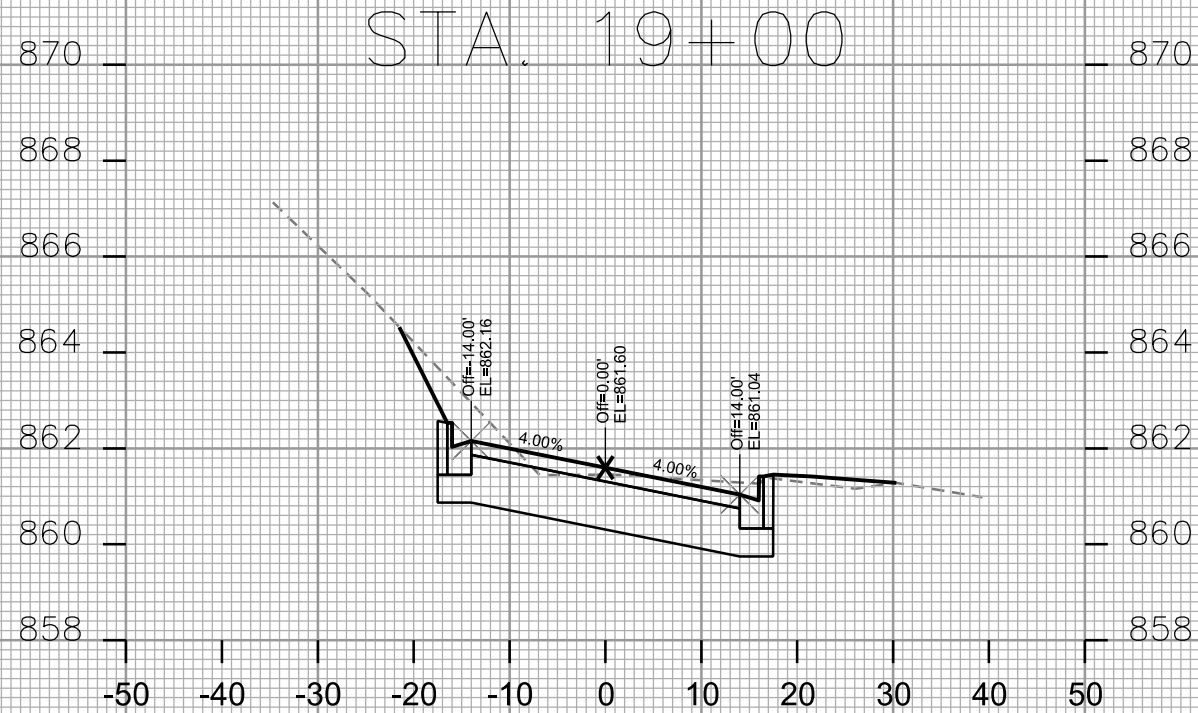
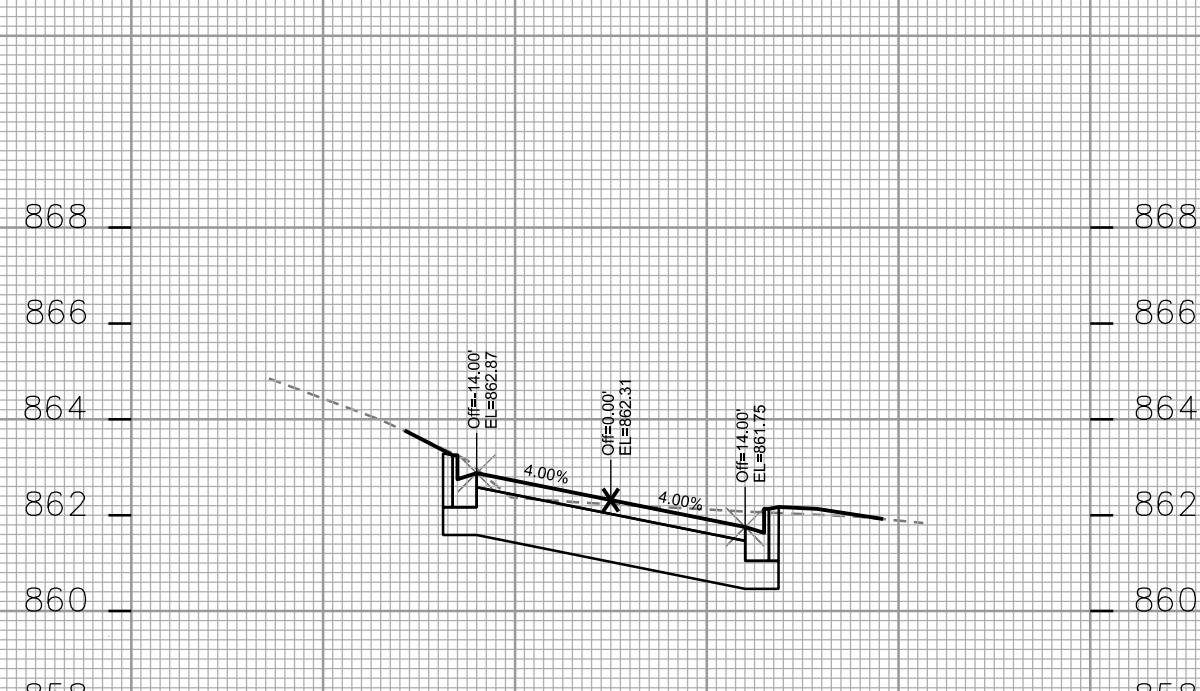
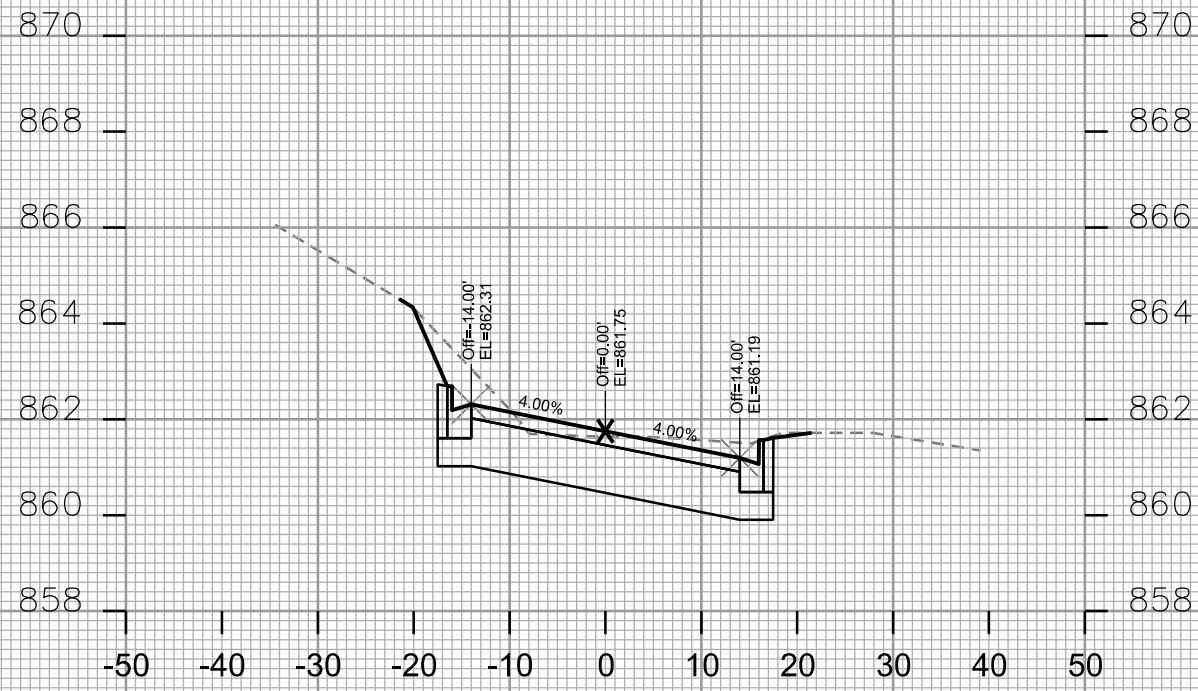
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON

PLOT SCALE: _____

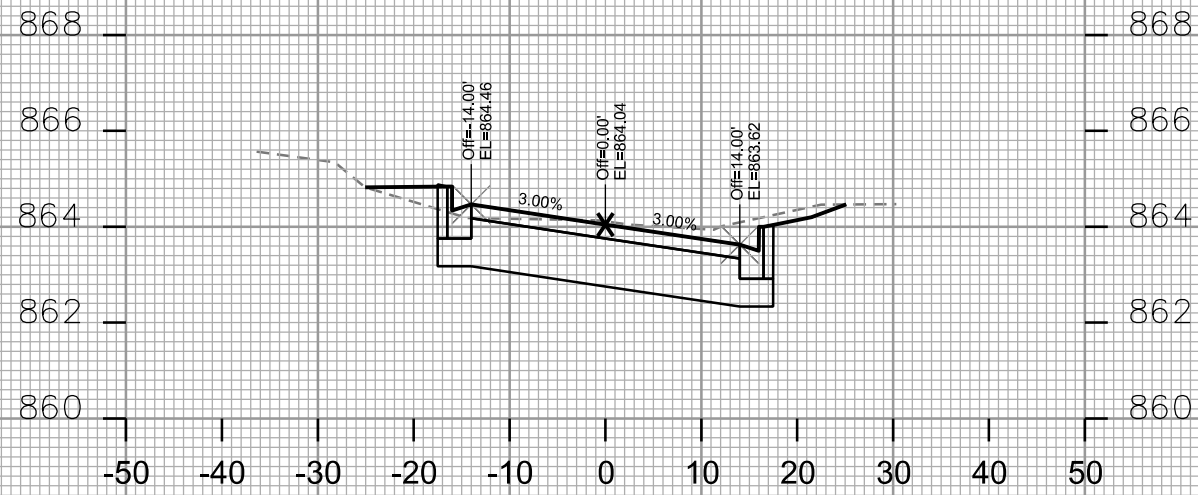
PLOT NAME: _____

REV. DATE: _____

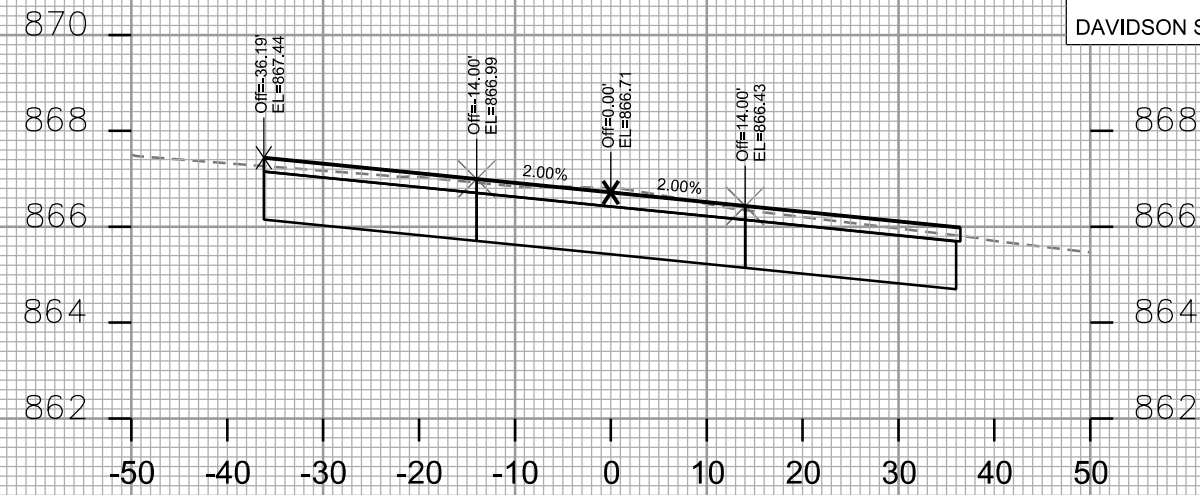
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



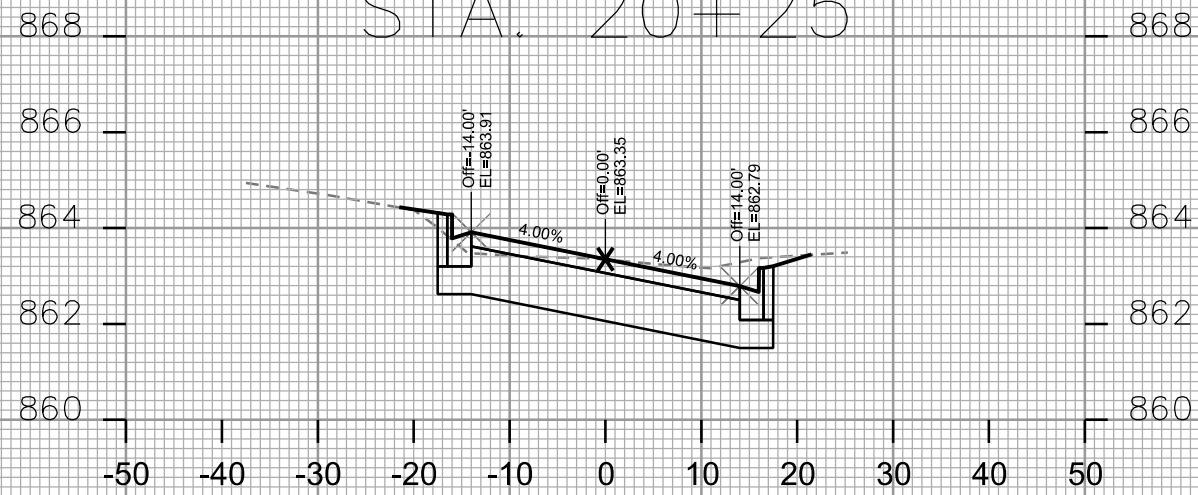
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON



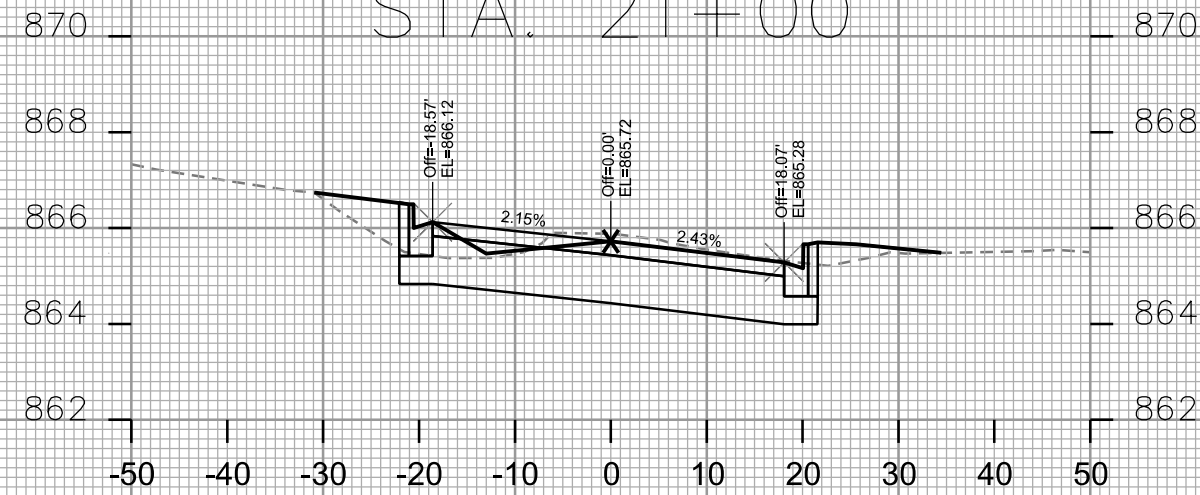
STA. 20+25



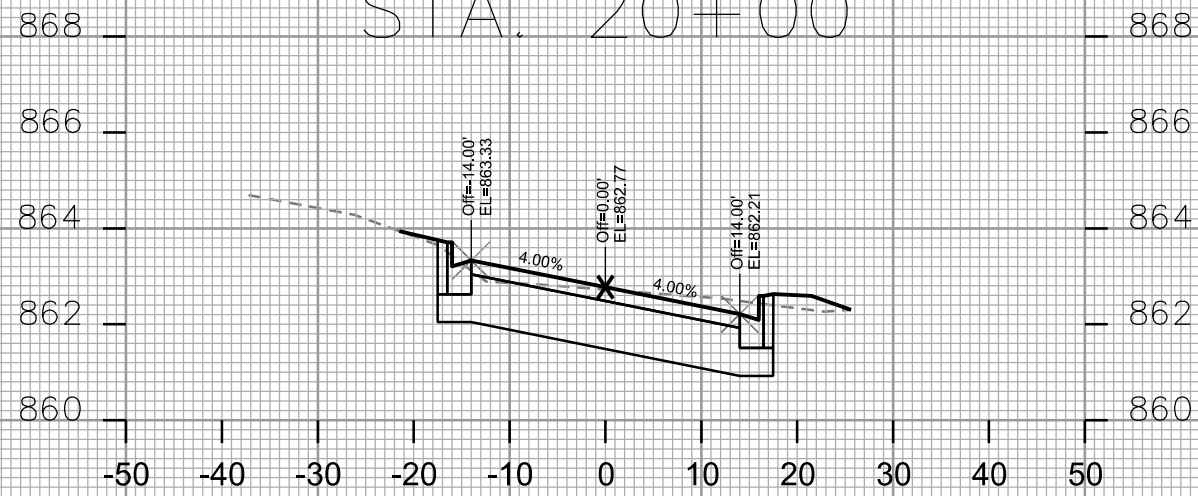
STA. 21+00



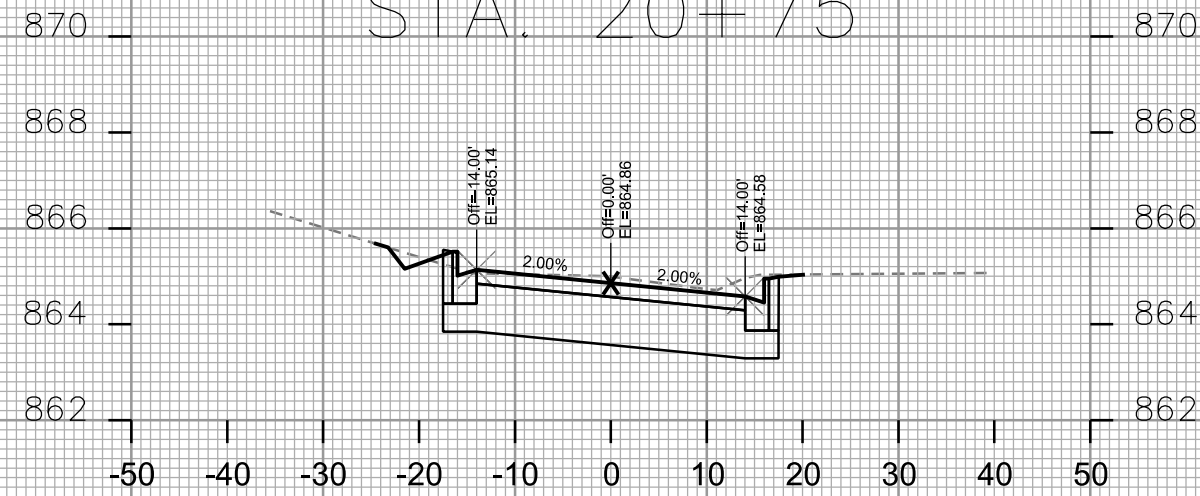
STA. 20+00



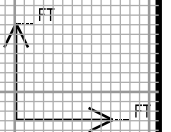
STA. 20+75



STA. 19+75



STA. 20+50



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

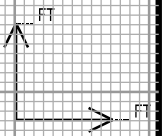
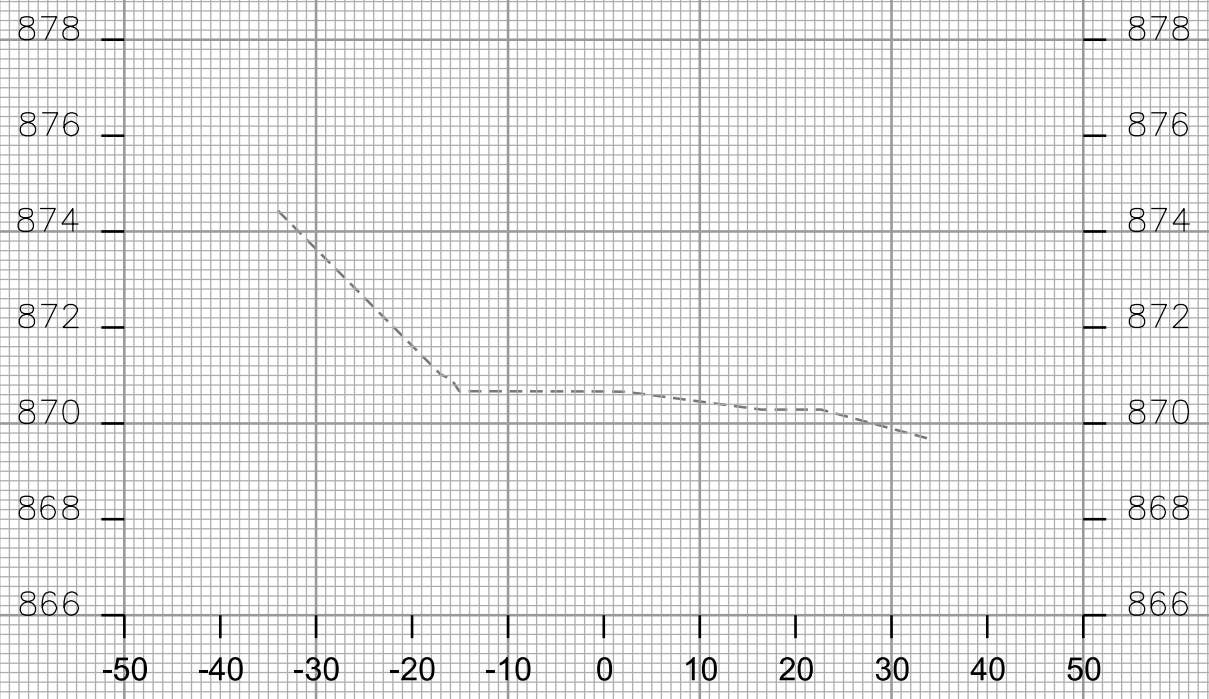
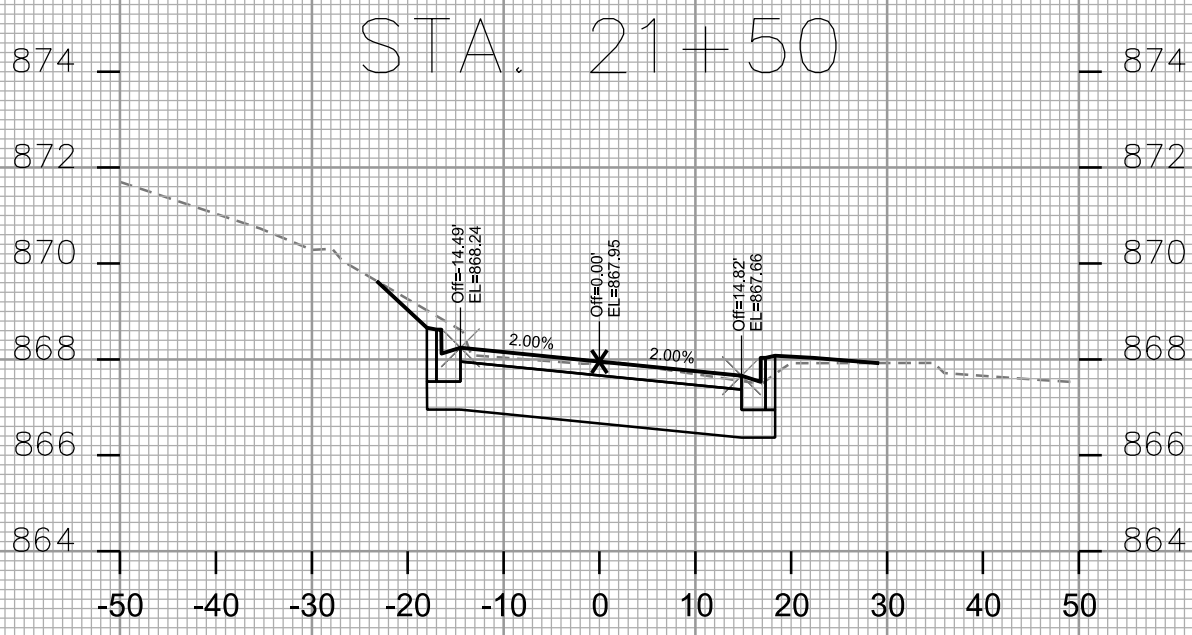
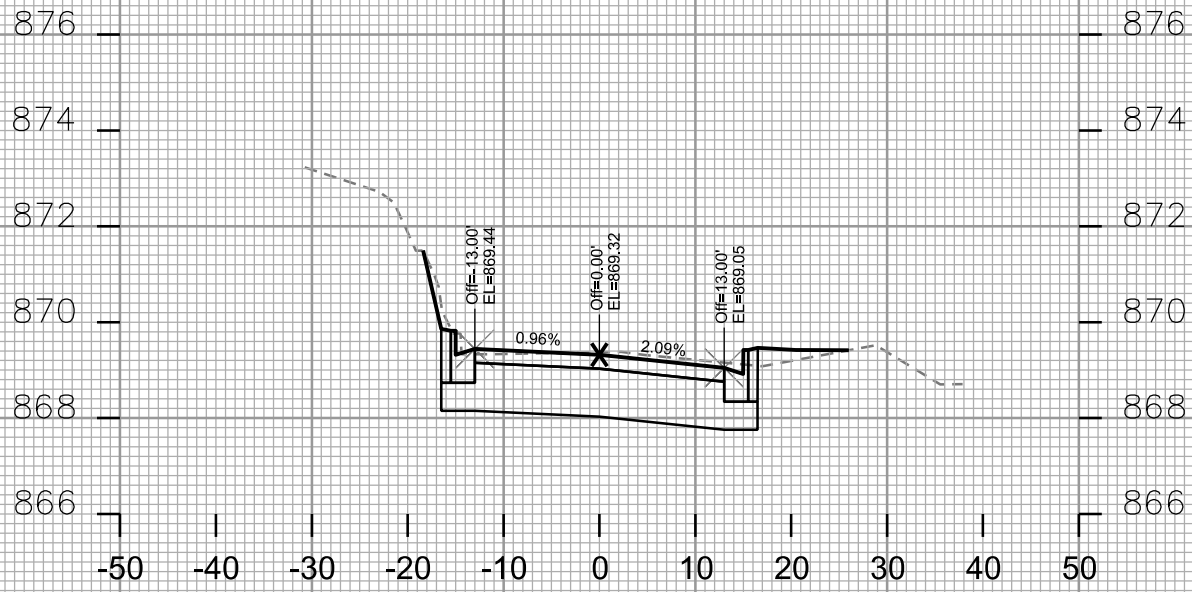
CROSS SECTIONS
DAVIDSON STREET CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



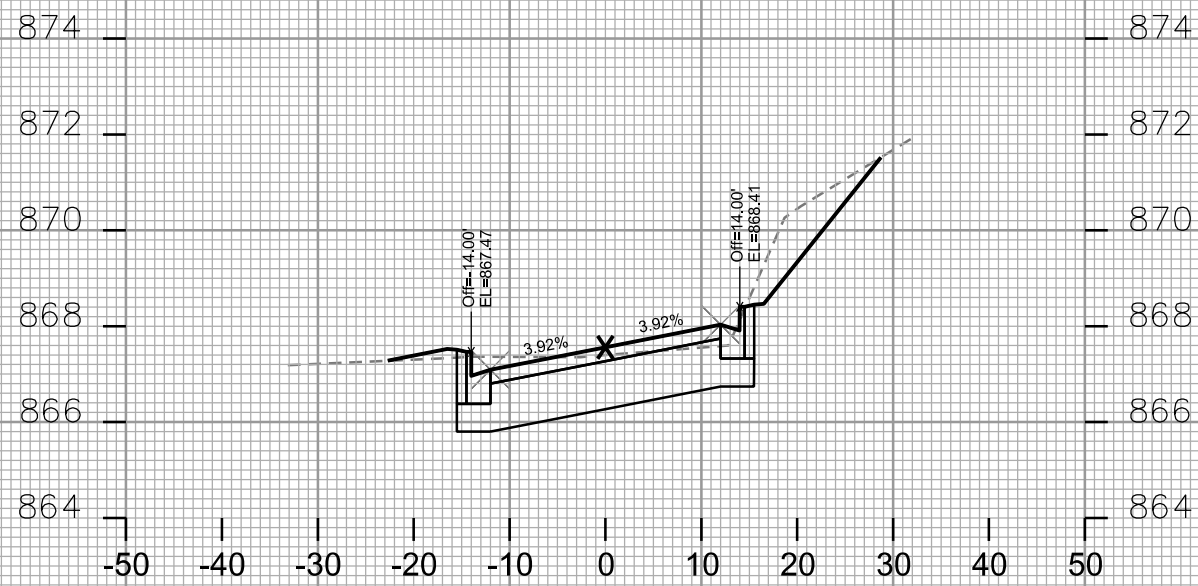
CROSS SECTIONS
DREXEL AVENUE CITY OF MADISON

PLOT SCALE: _____

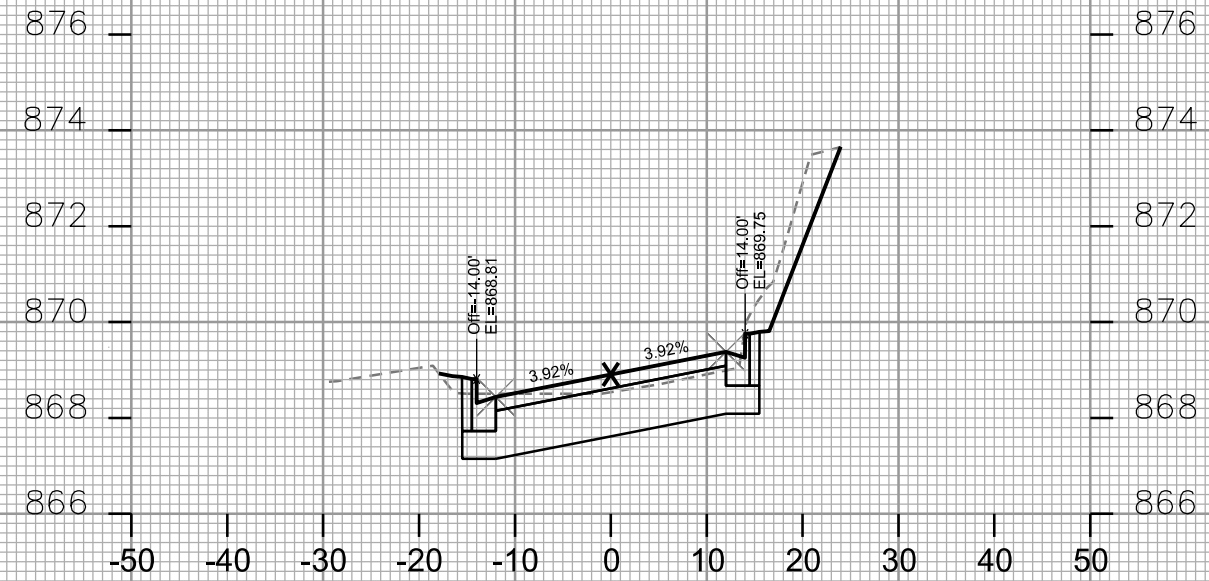
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REV. DATE: _____

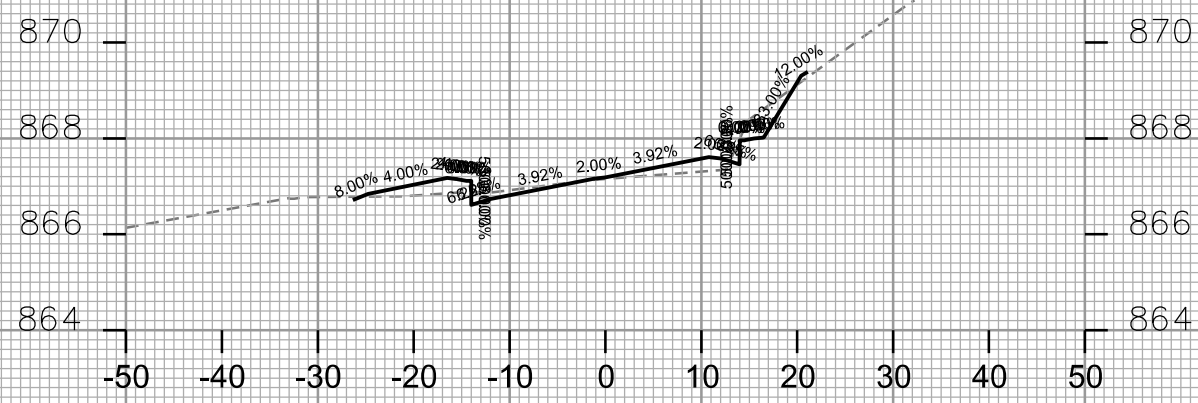
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



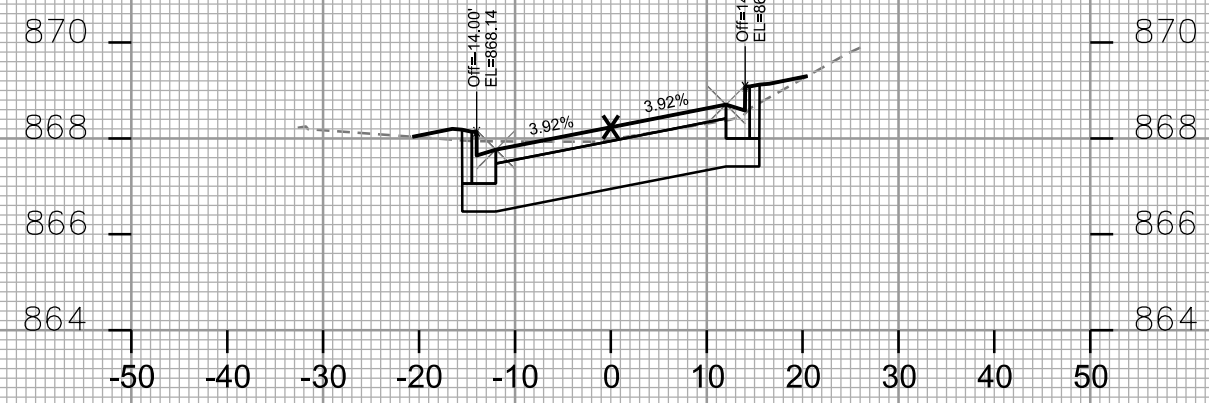
STA. 101+75



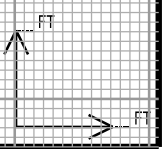
STA. 102+25



STA. 101+60



STA. 102+00



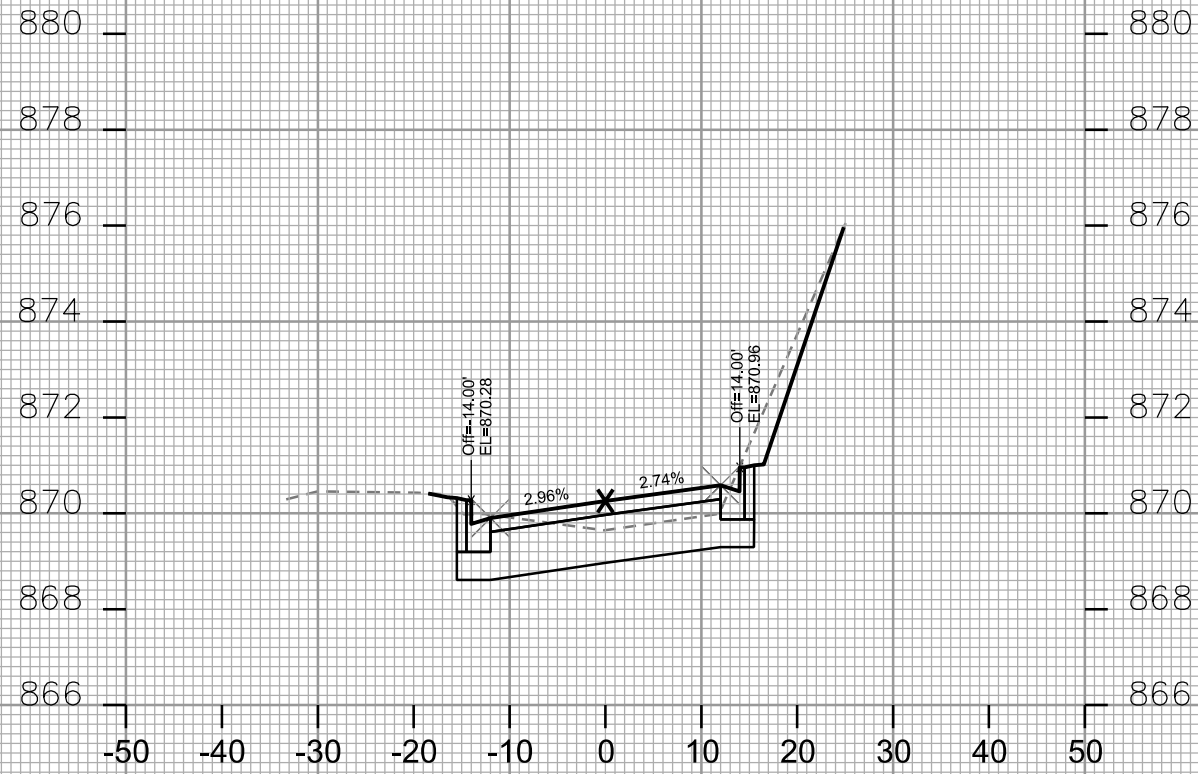
CROSS SECTIONS
DREXEL AVENUE CITY OF MADISON

PLOT SCALE: _____

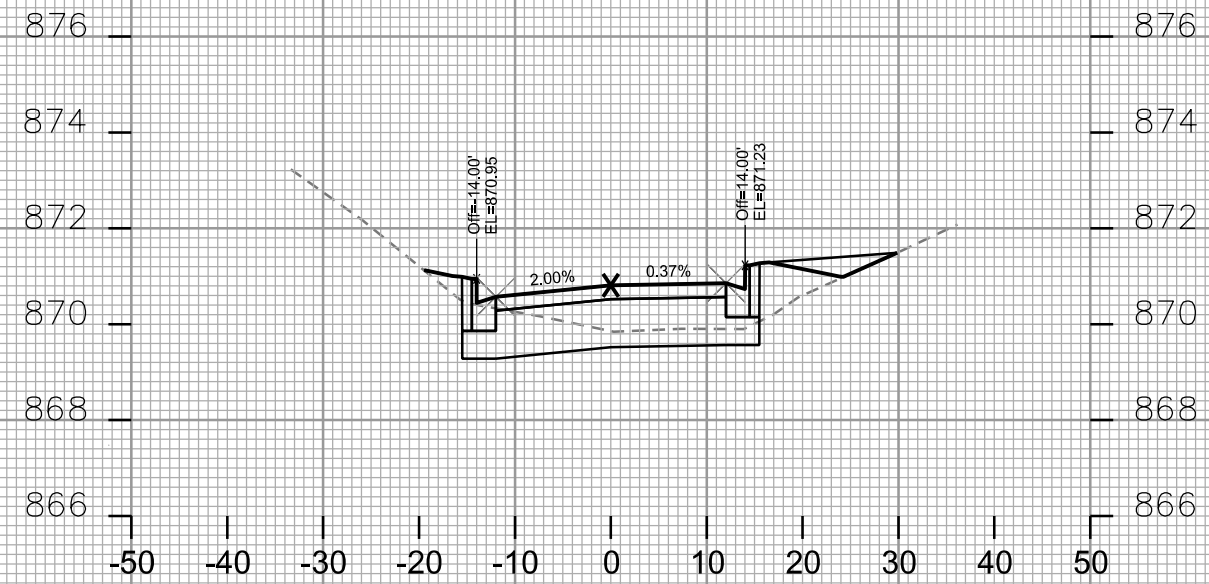
PLOT NAME: _____

REV. DATE: _____

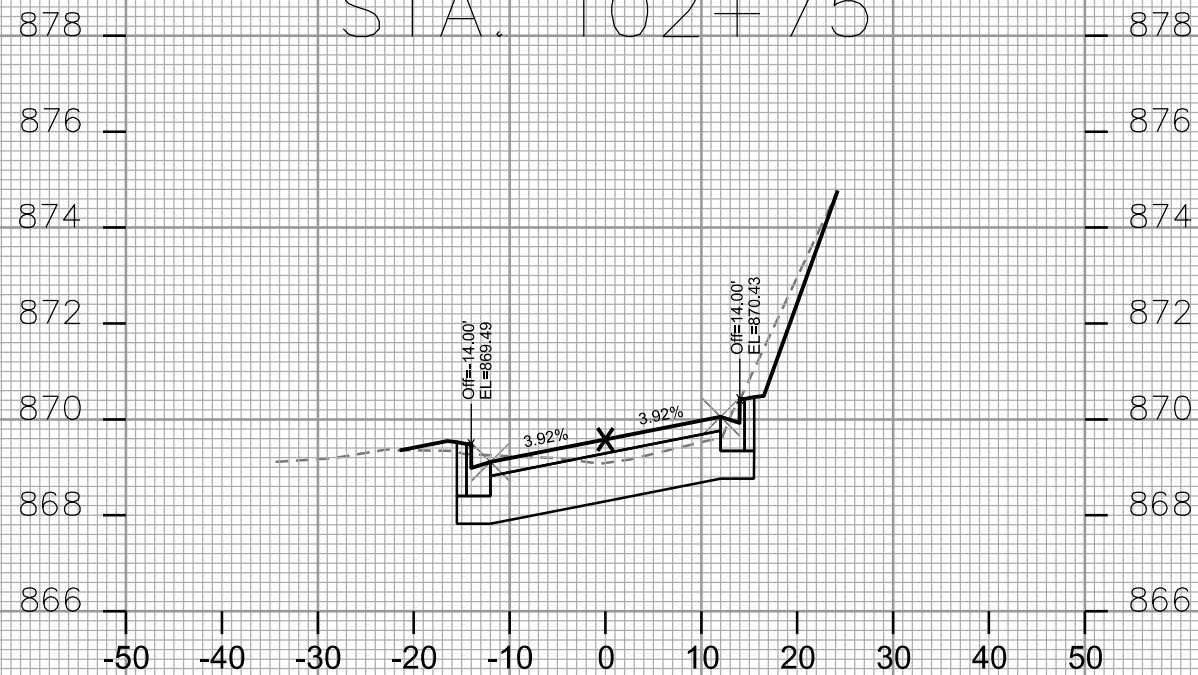
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



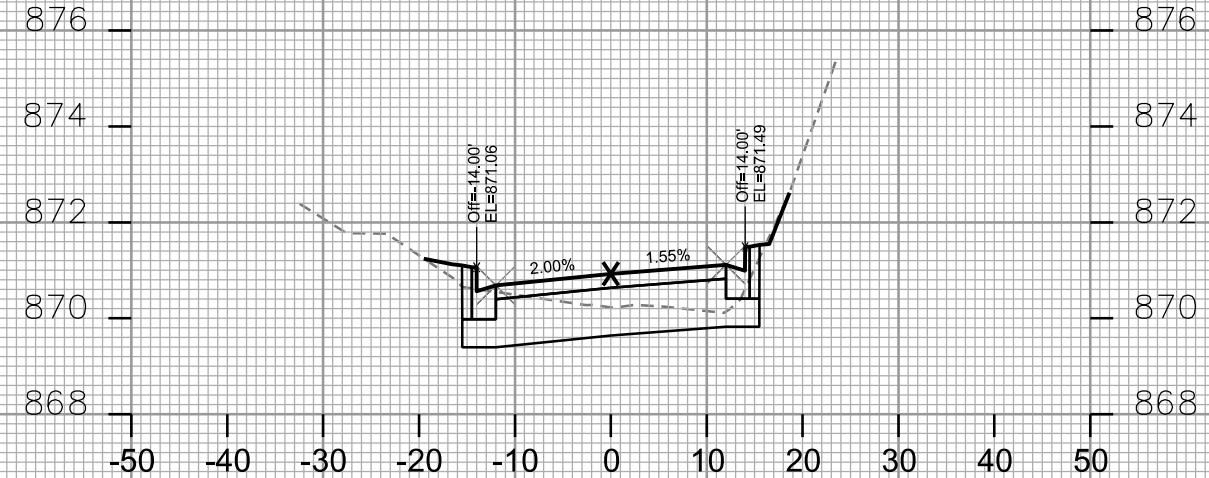
STA. 102+75



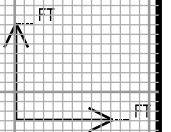
STA. 103+25



STA. 102+50



STA. 103+00



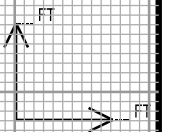
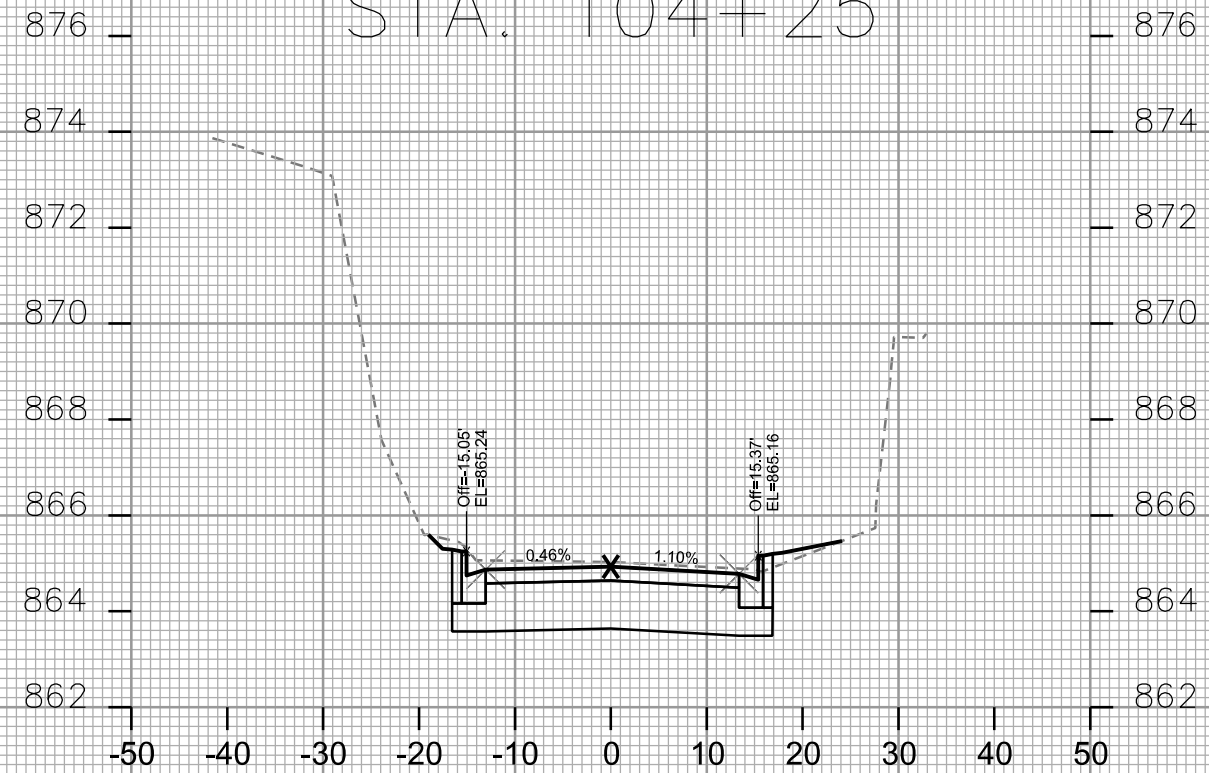
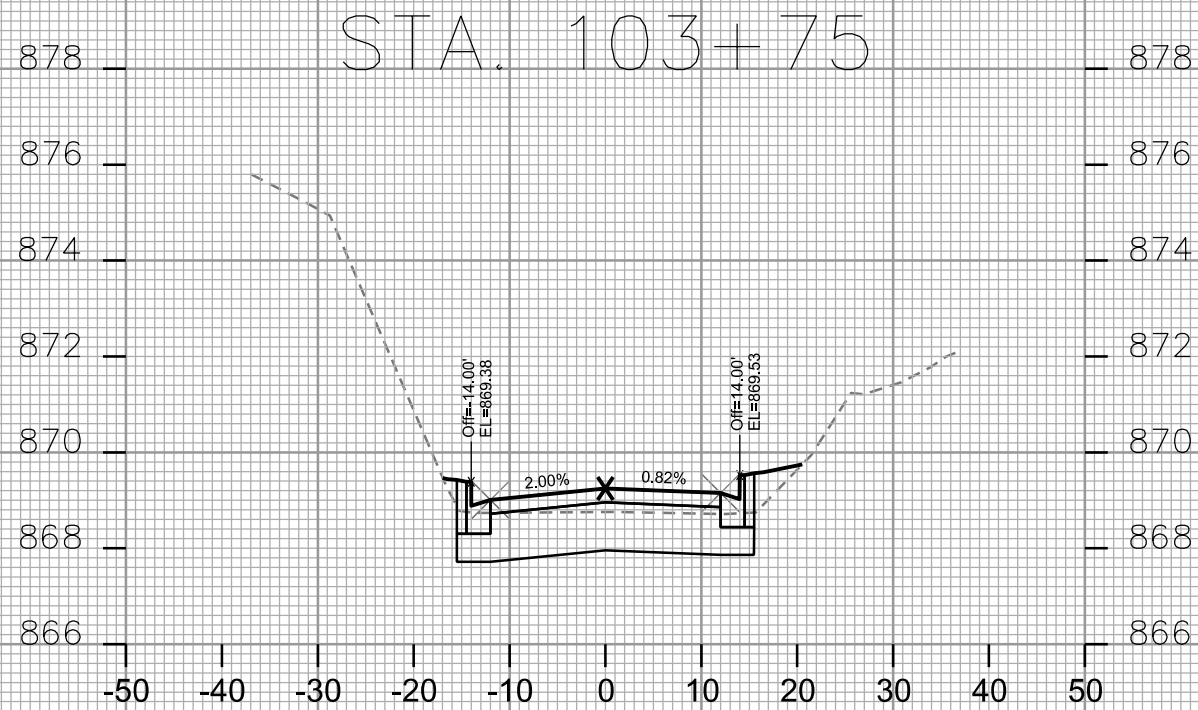
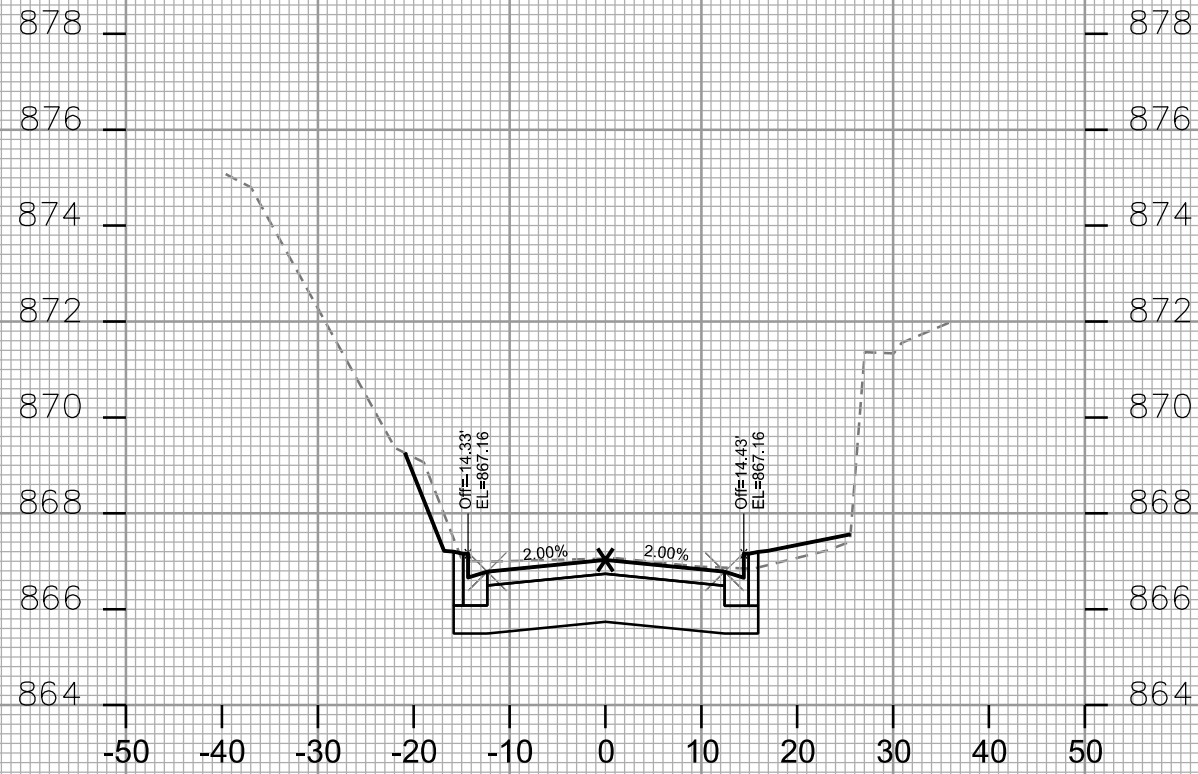
CROSS SECTIONS
DREXEL AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



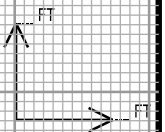
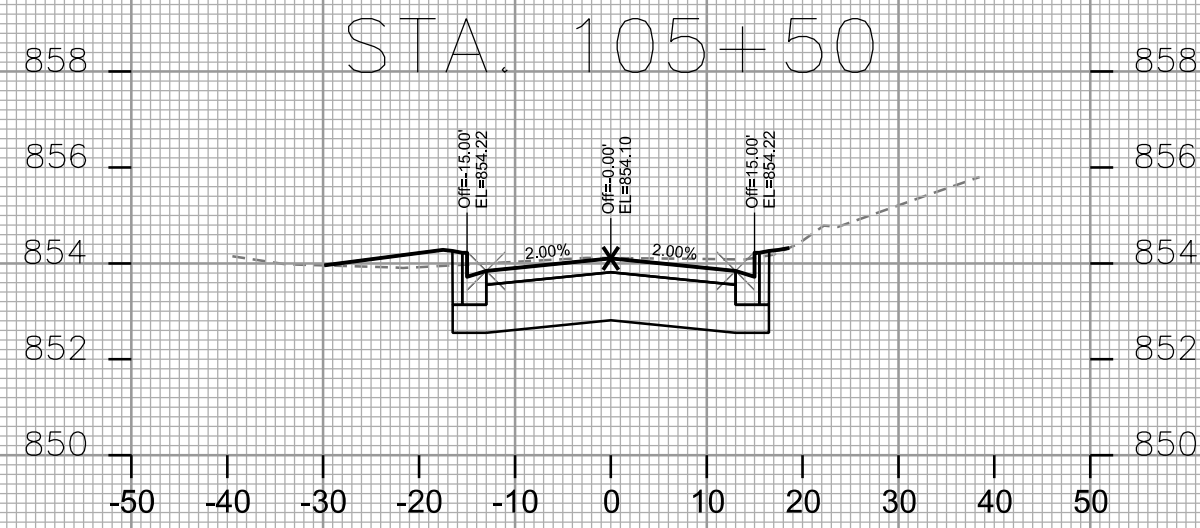
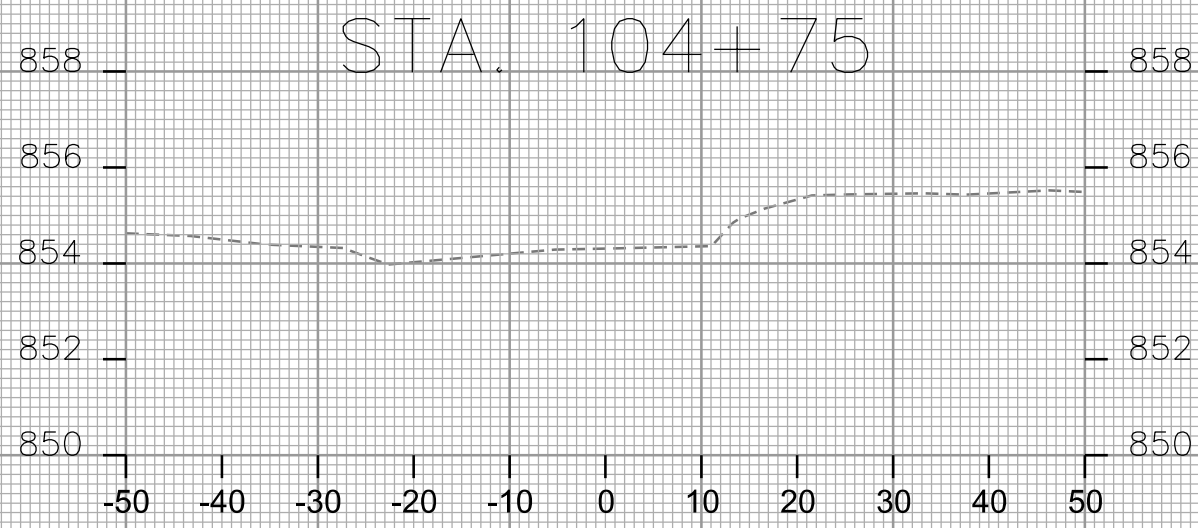
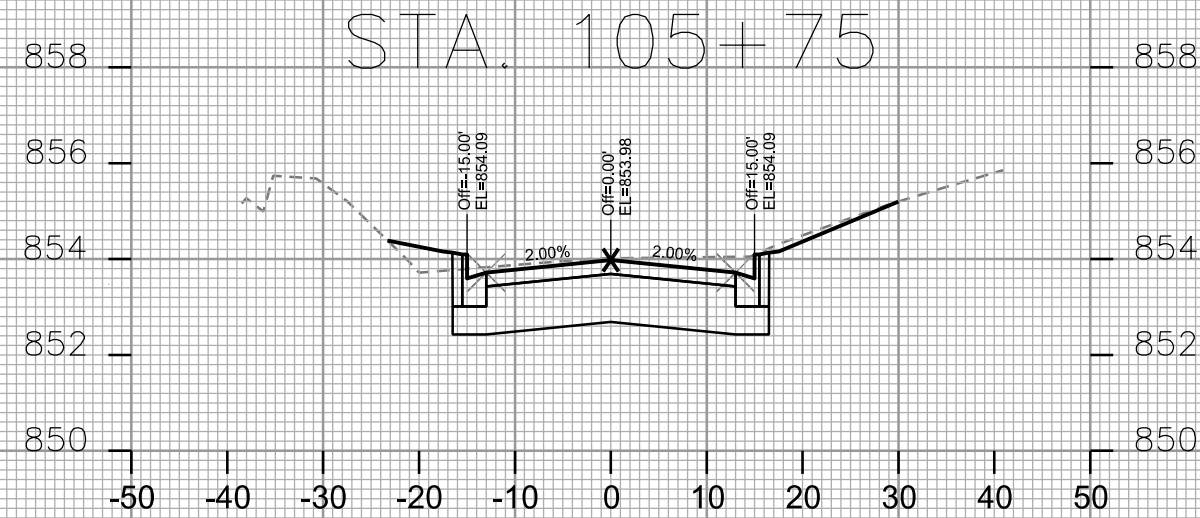
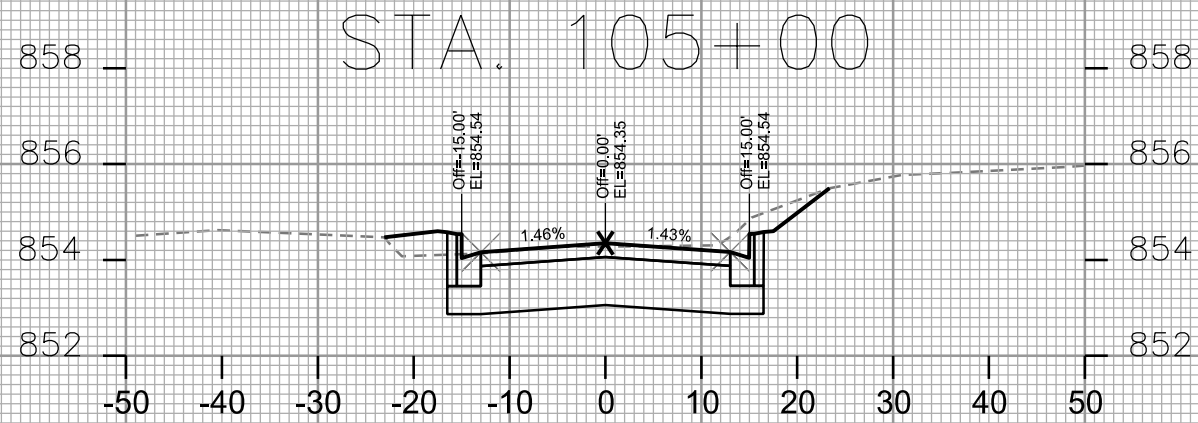
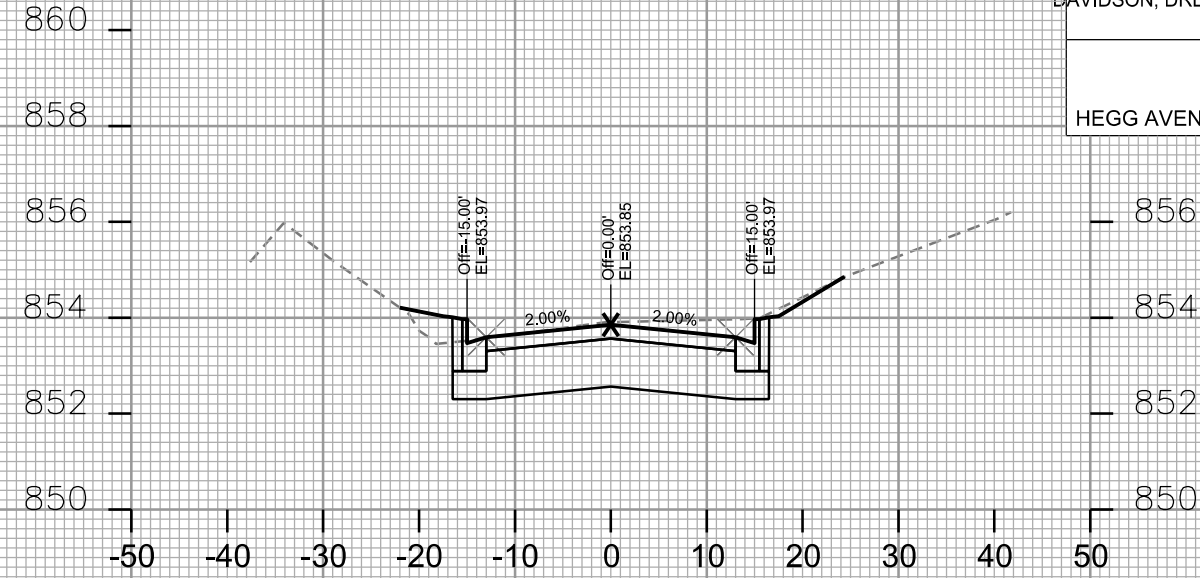
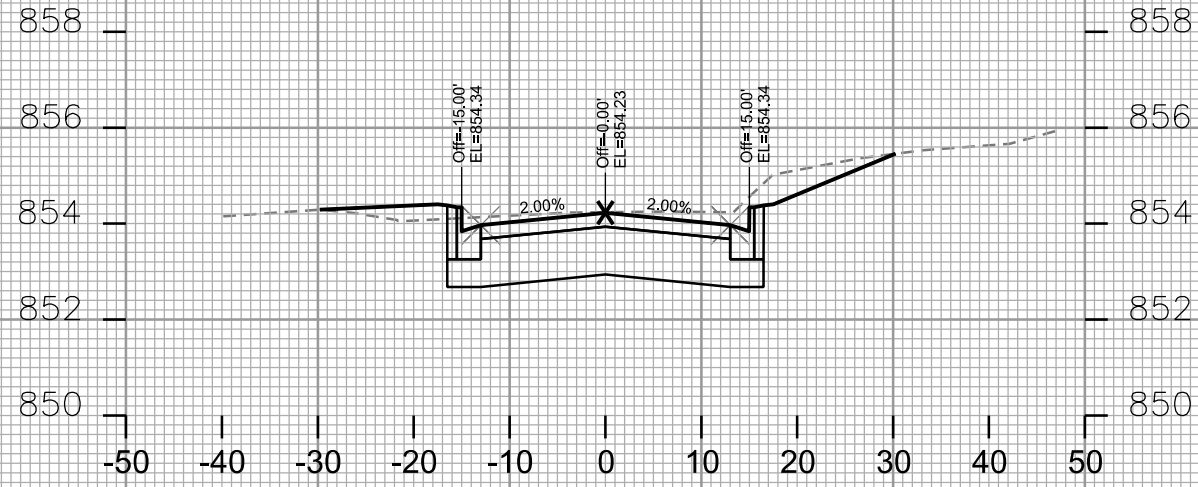
CROSS SECTIONS
HEGG AVENUE CITY OF MADISON

PLOT SCALE: _____

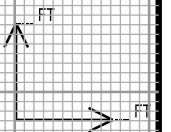
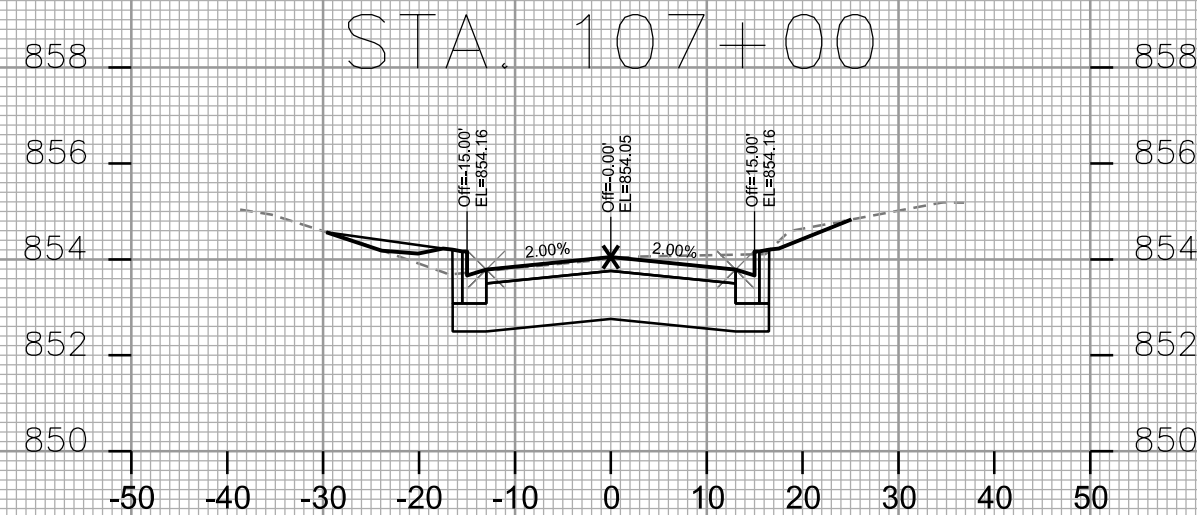
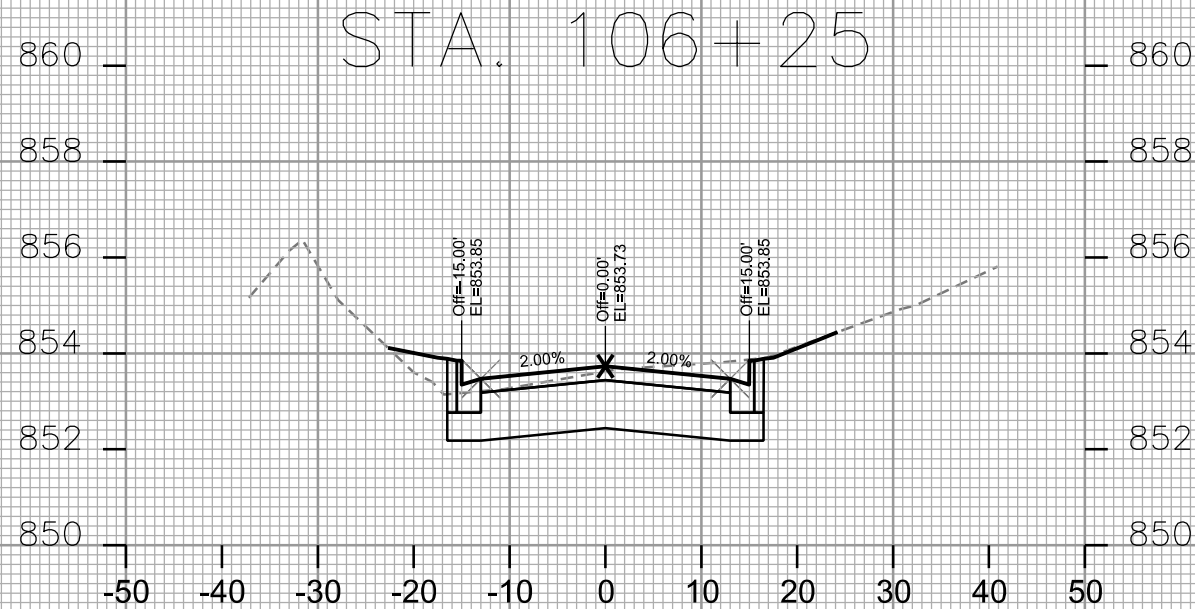
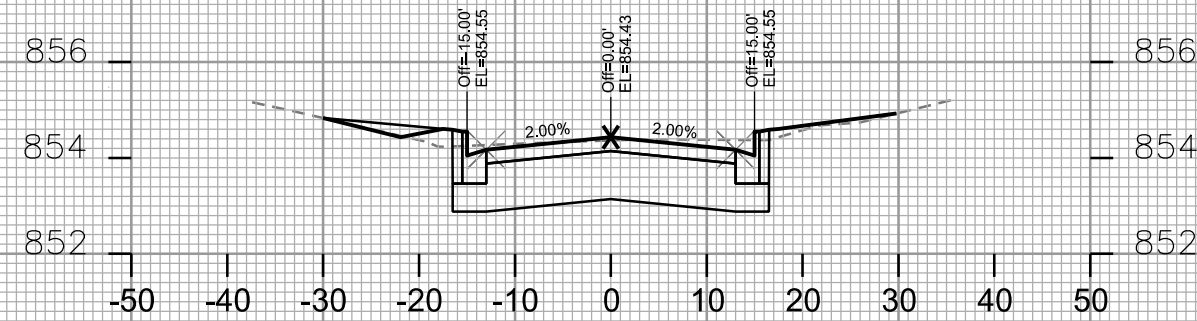
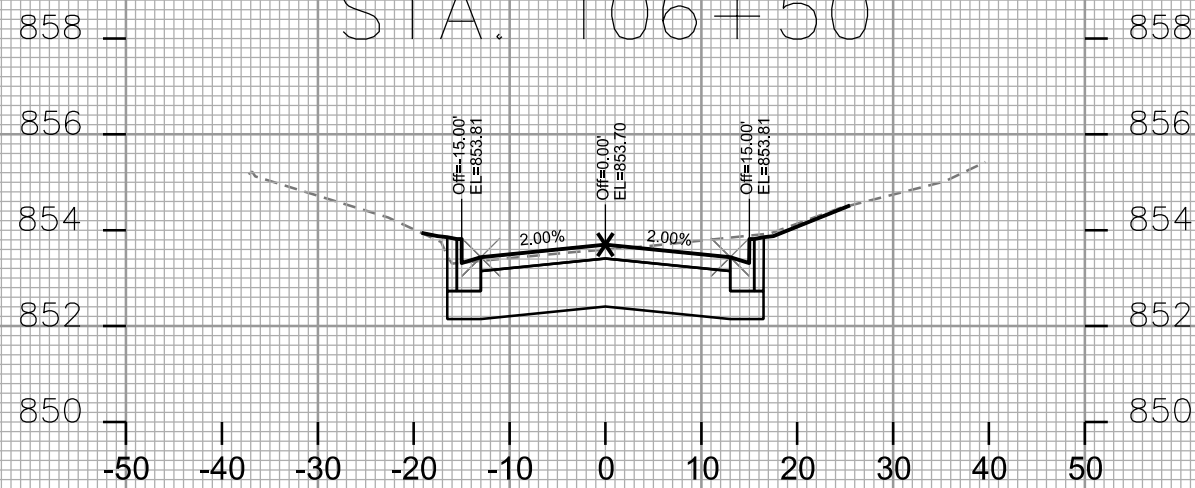
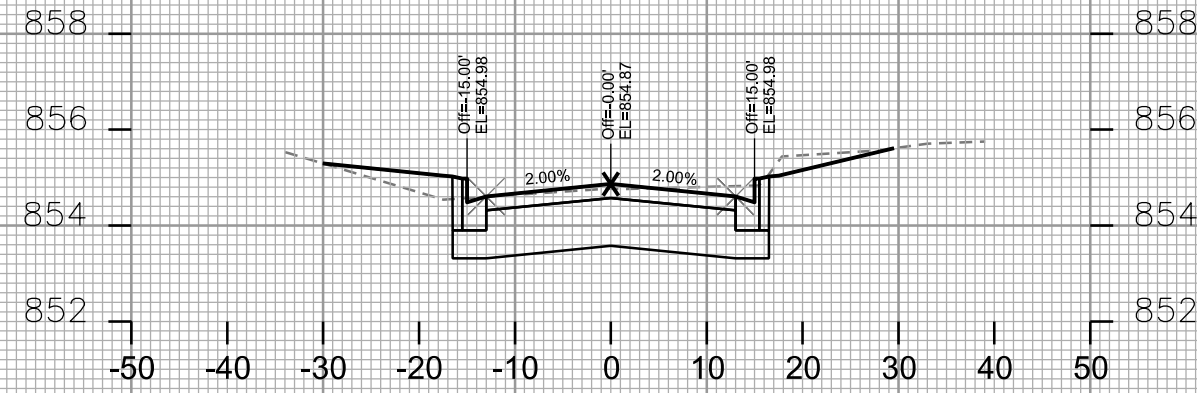
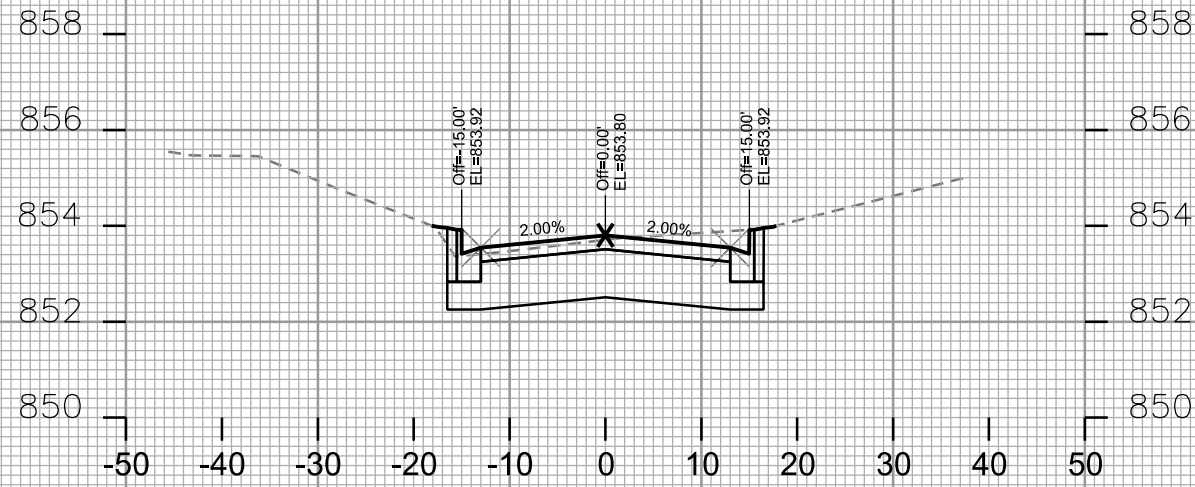
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS
HEGG AVENUE CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

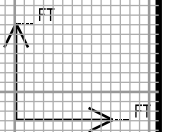
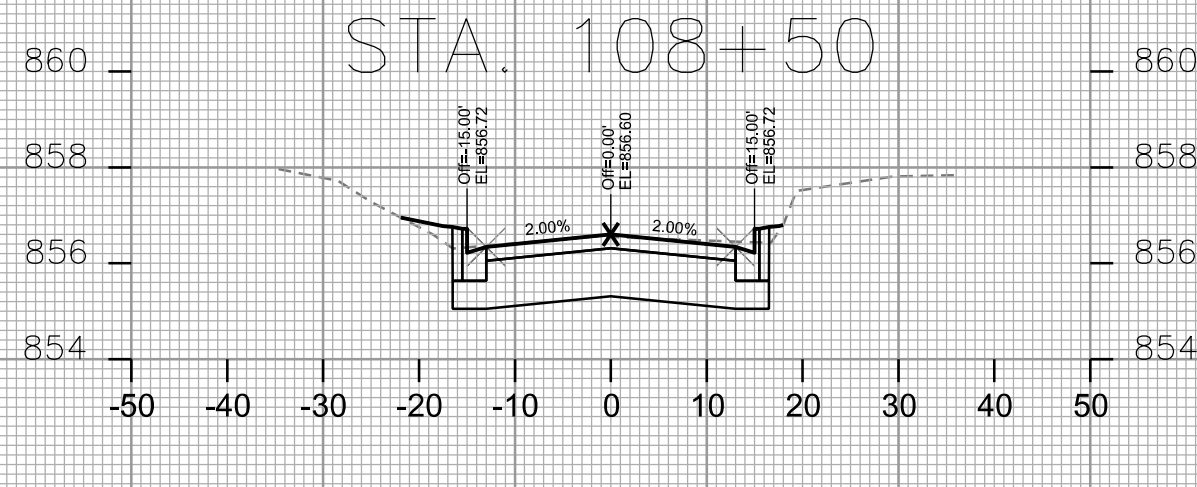
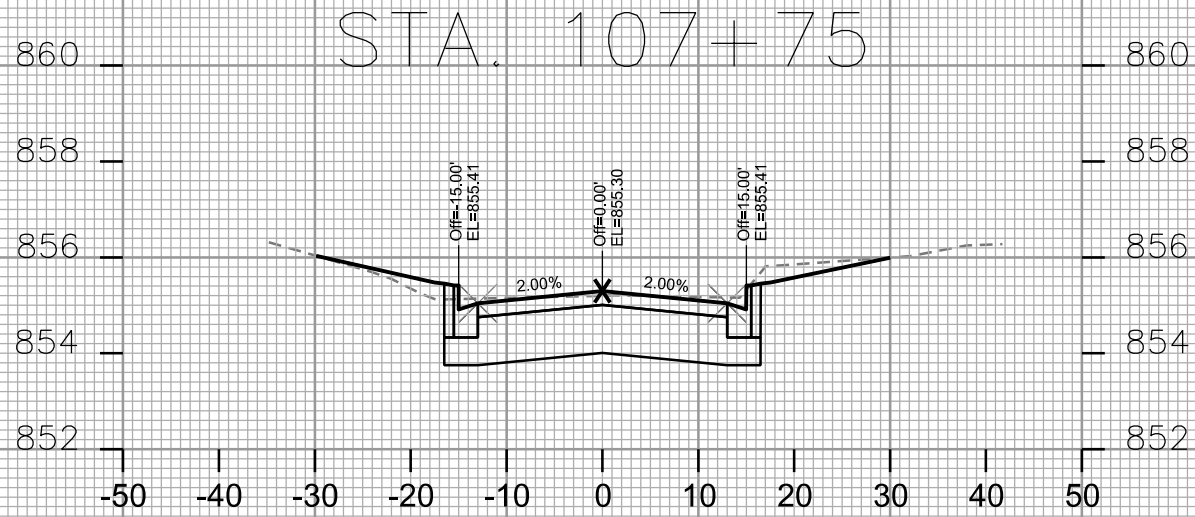
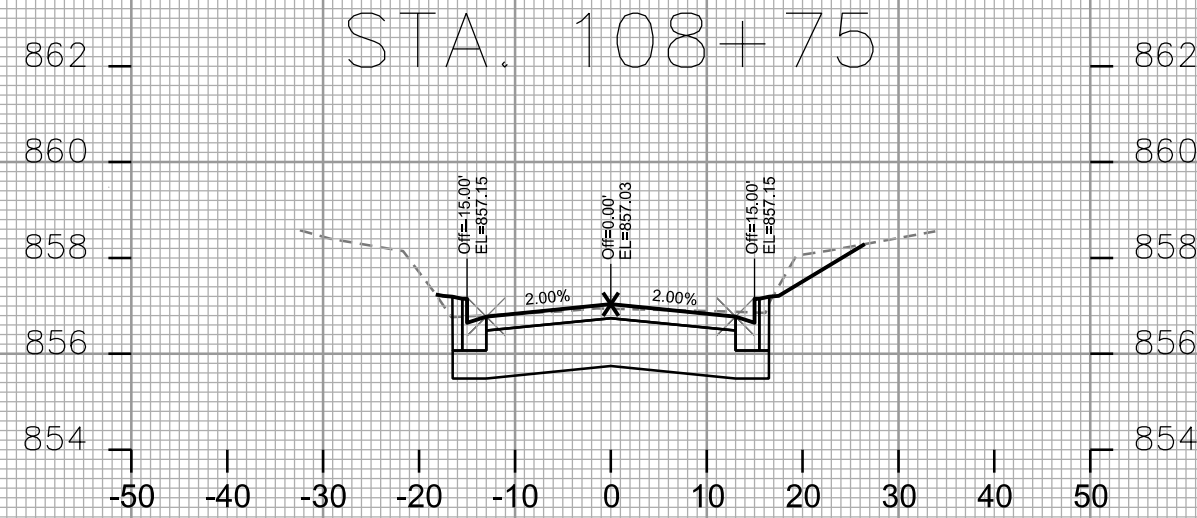
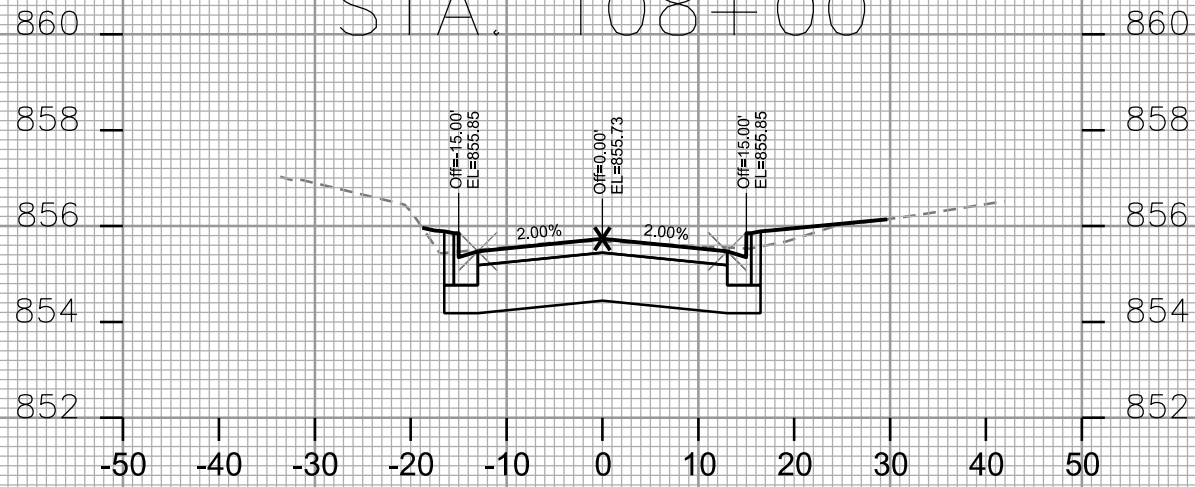
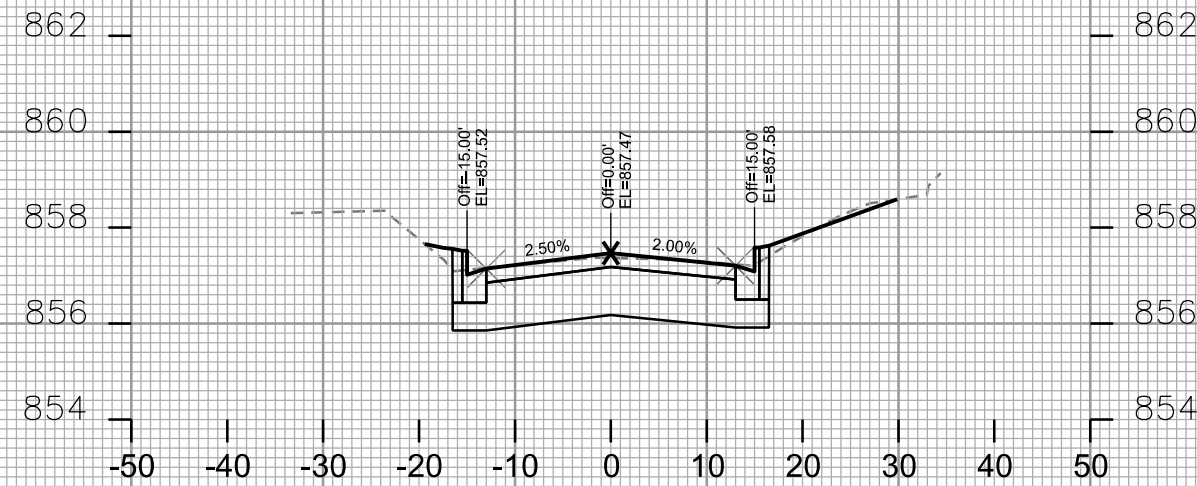
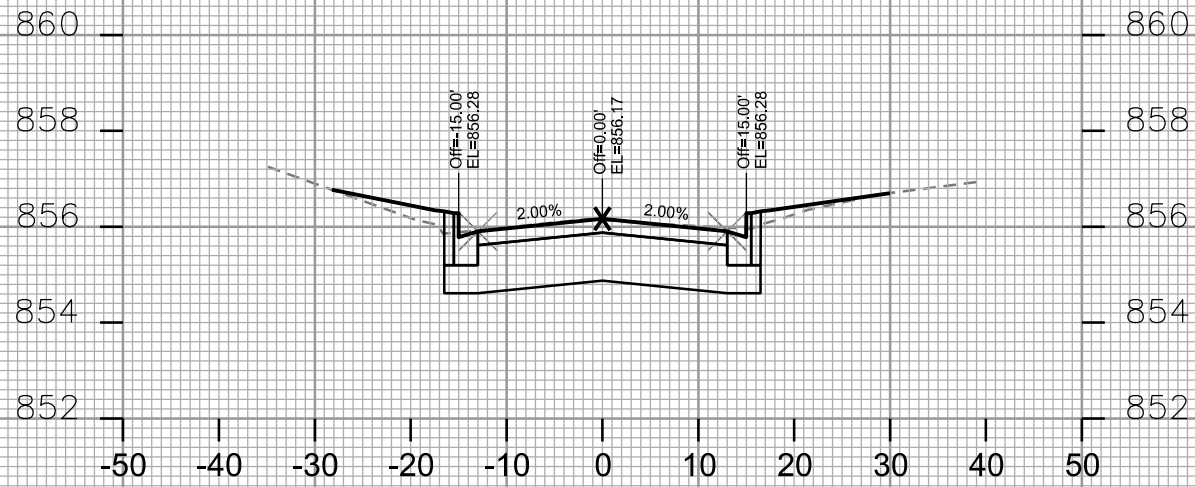
CROSS SECTIONS
HEGG AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



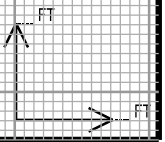
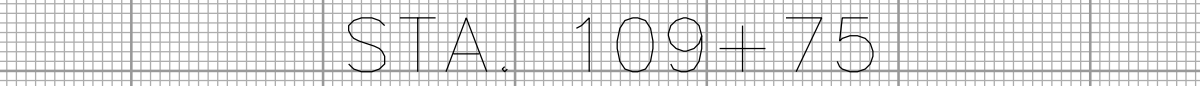
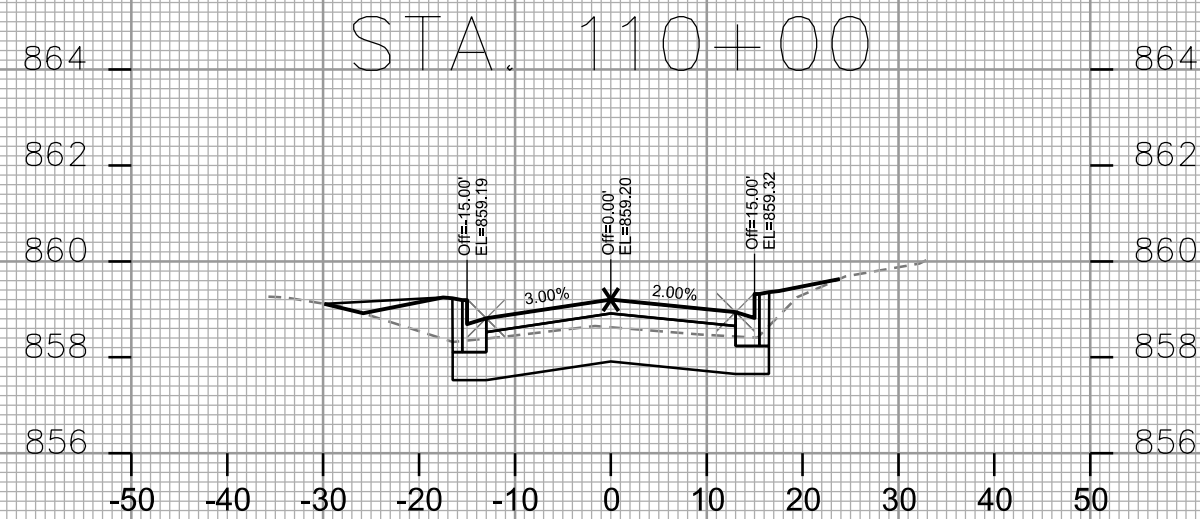
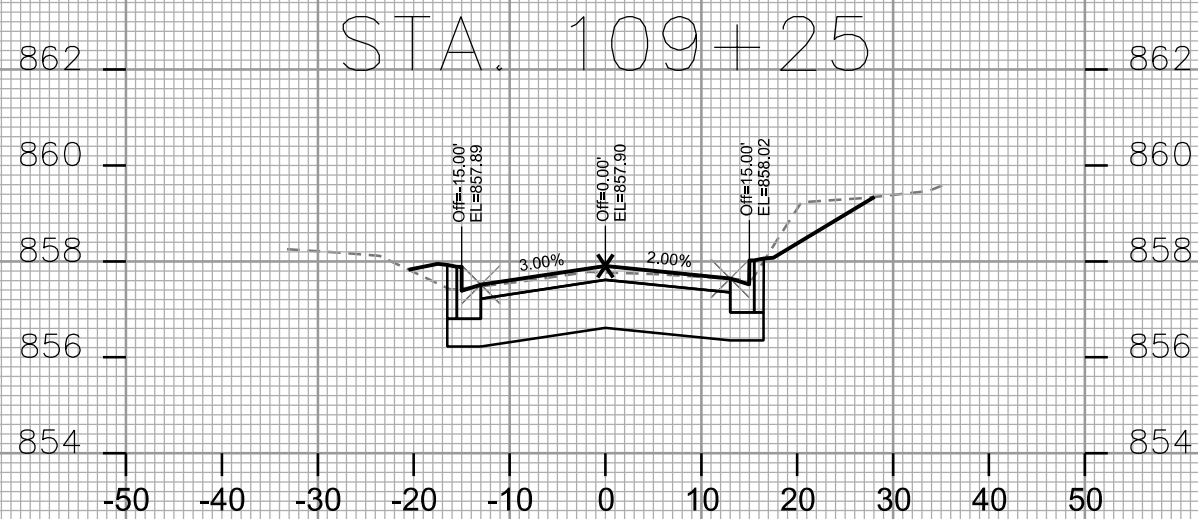
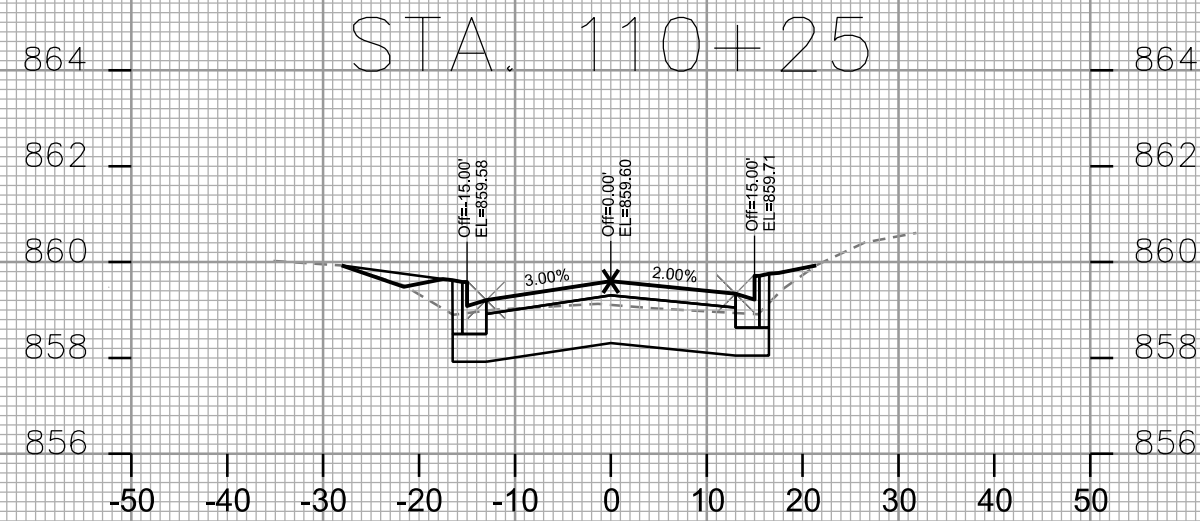
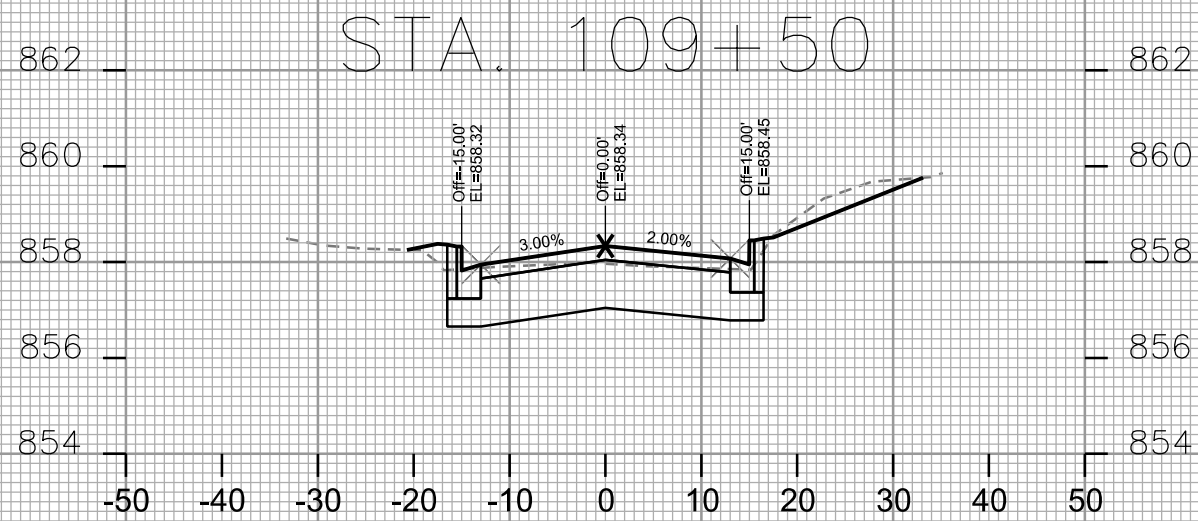
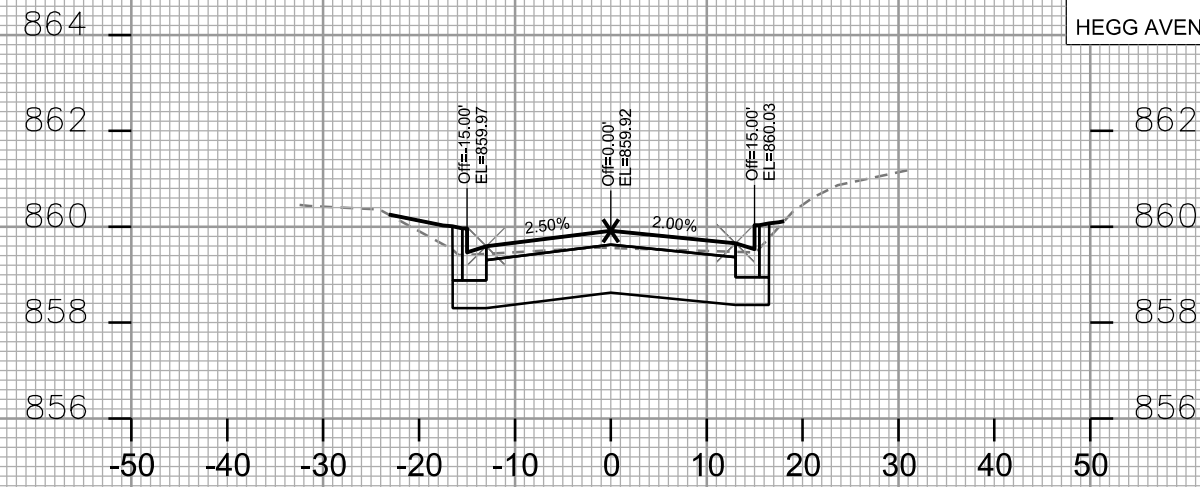
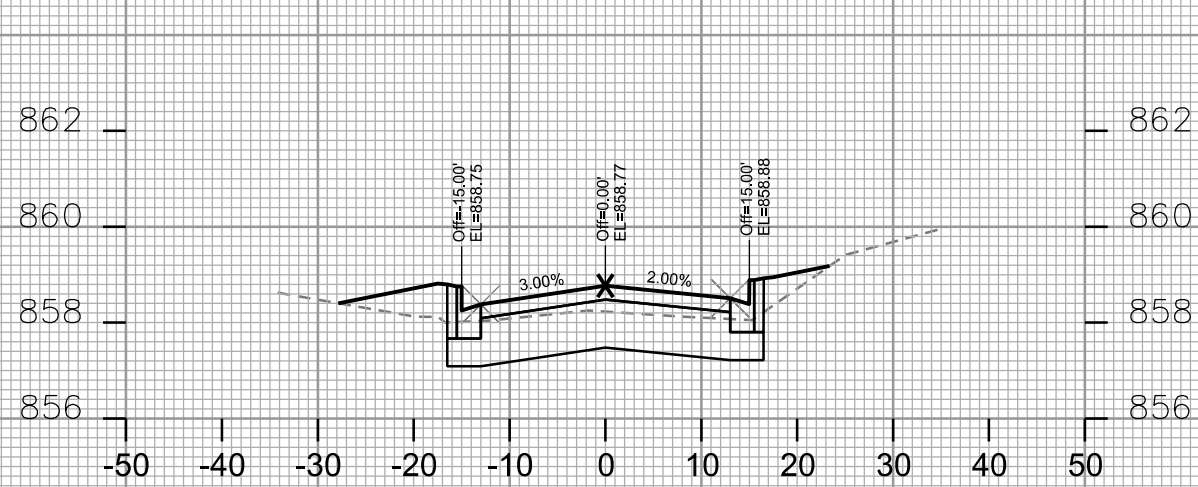
CROSS SECTIONS
HEGG AVENUE CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



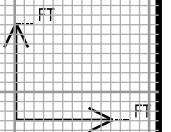
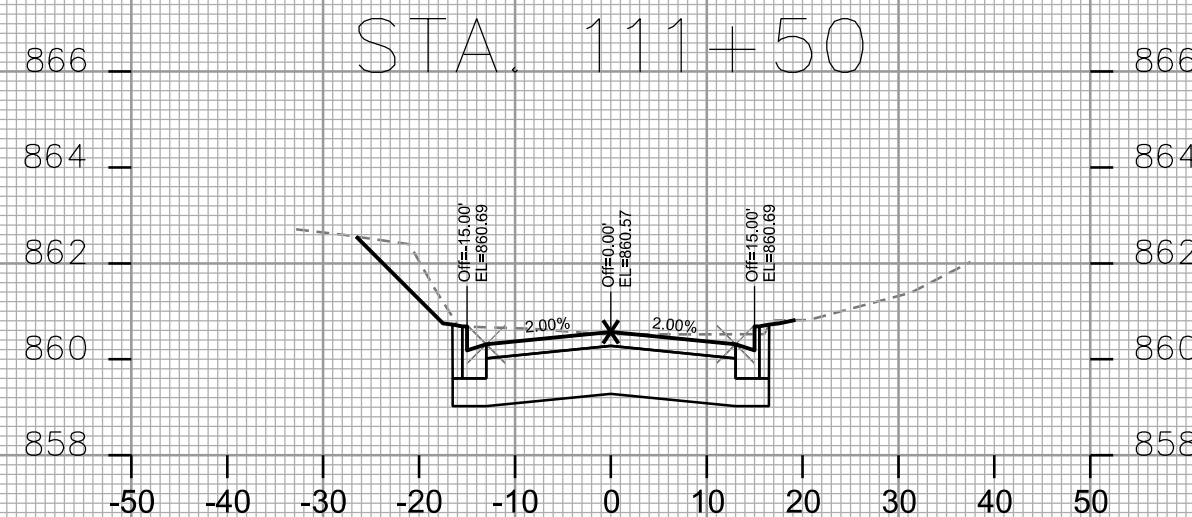
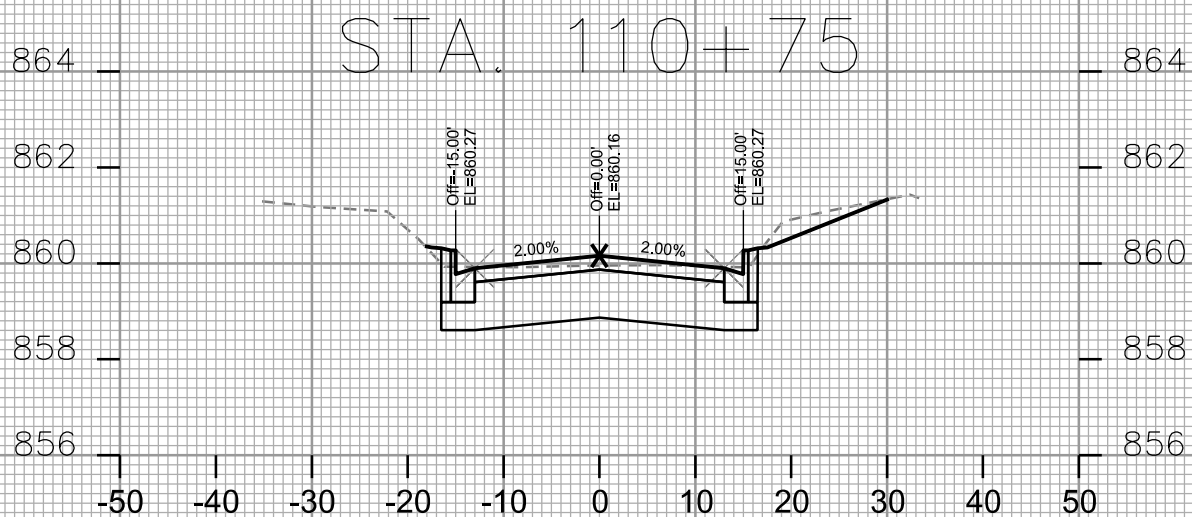
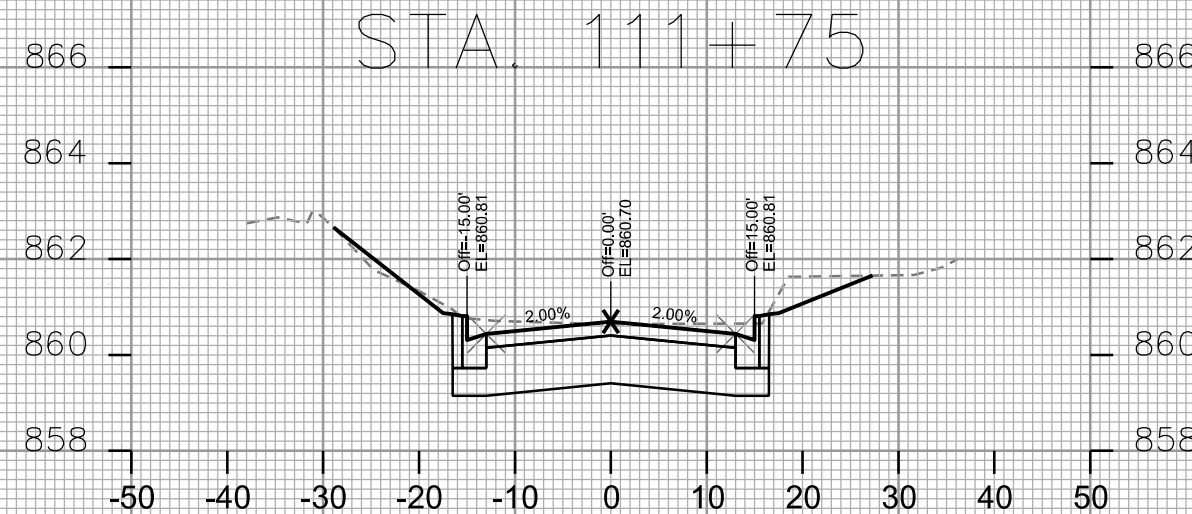
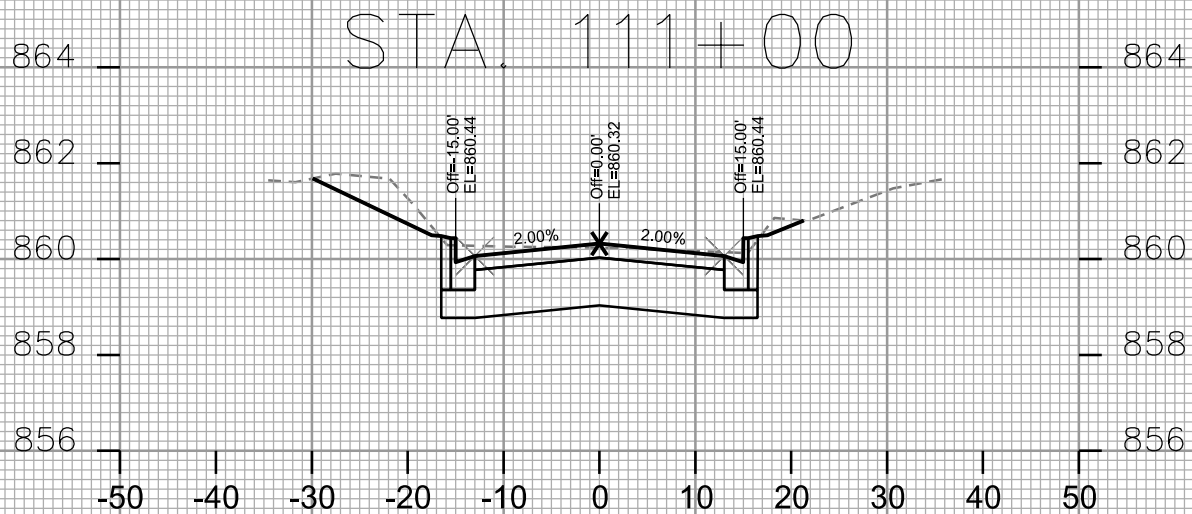
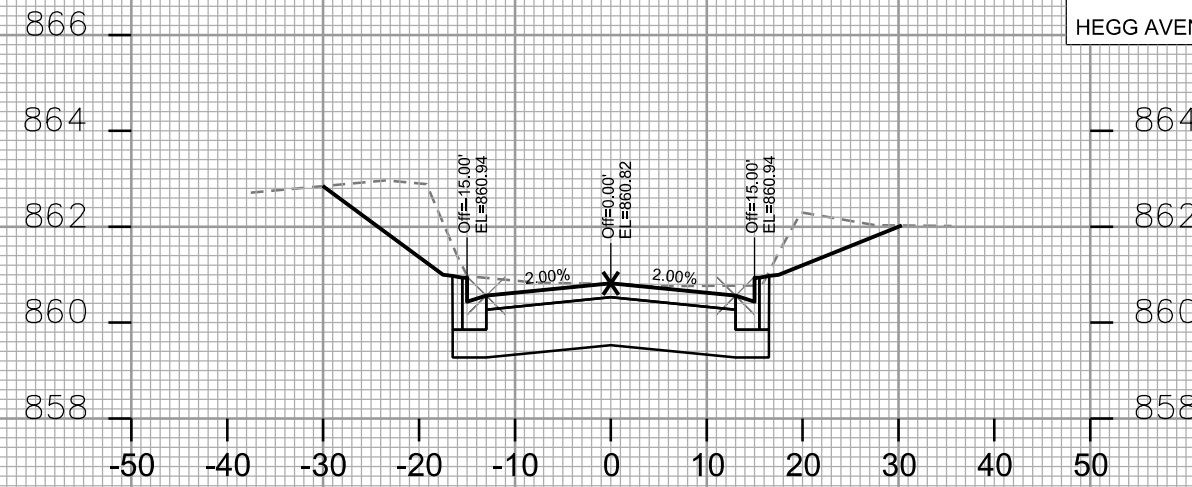
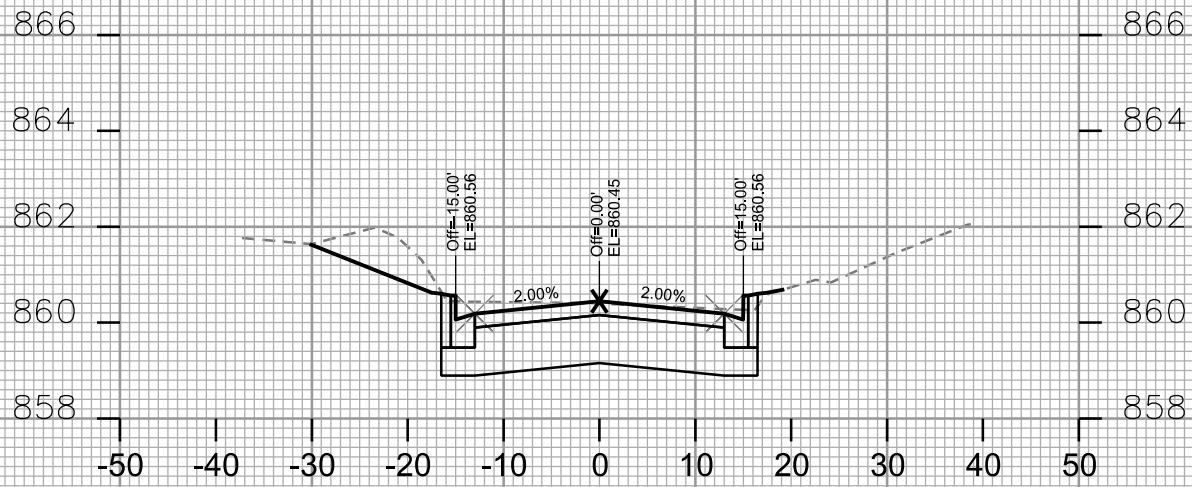
CROSS SECTIONS
HEGG AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



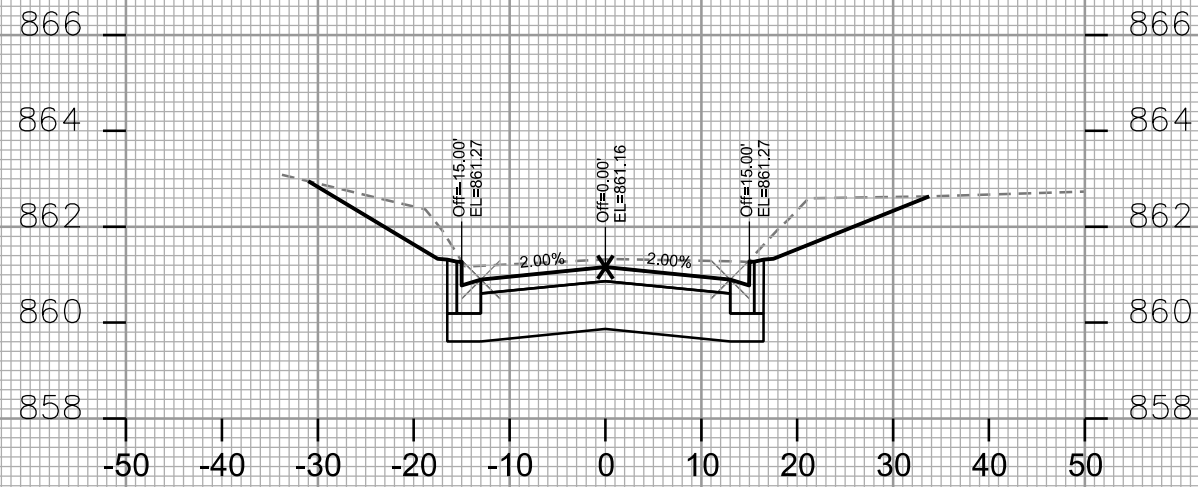
CROSS SECTIONS
HEGG AVENUE CITY OF MADISON

PLOT SCALE: _____

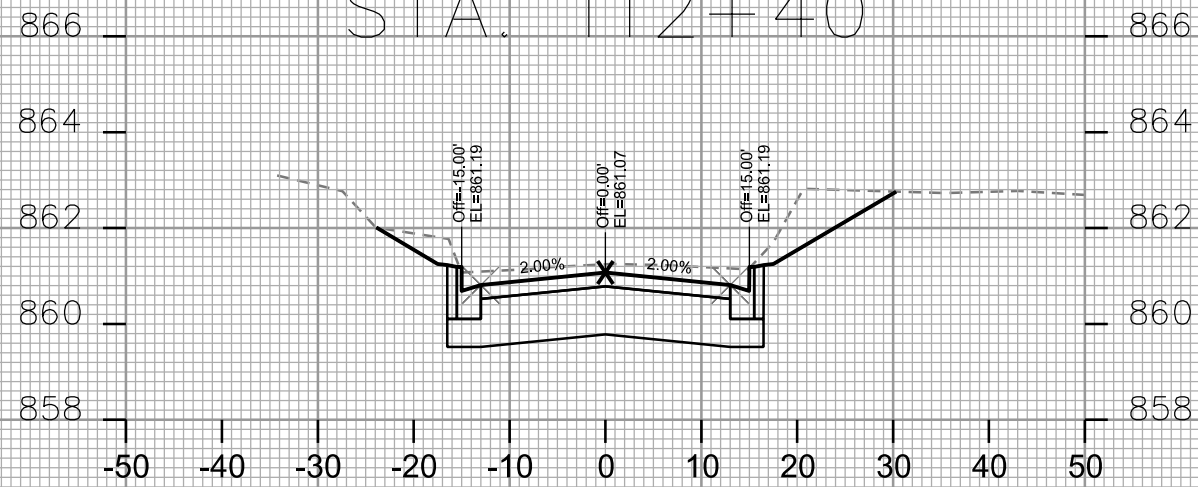
PLOT NAME: _____

REV. DATE: _____

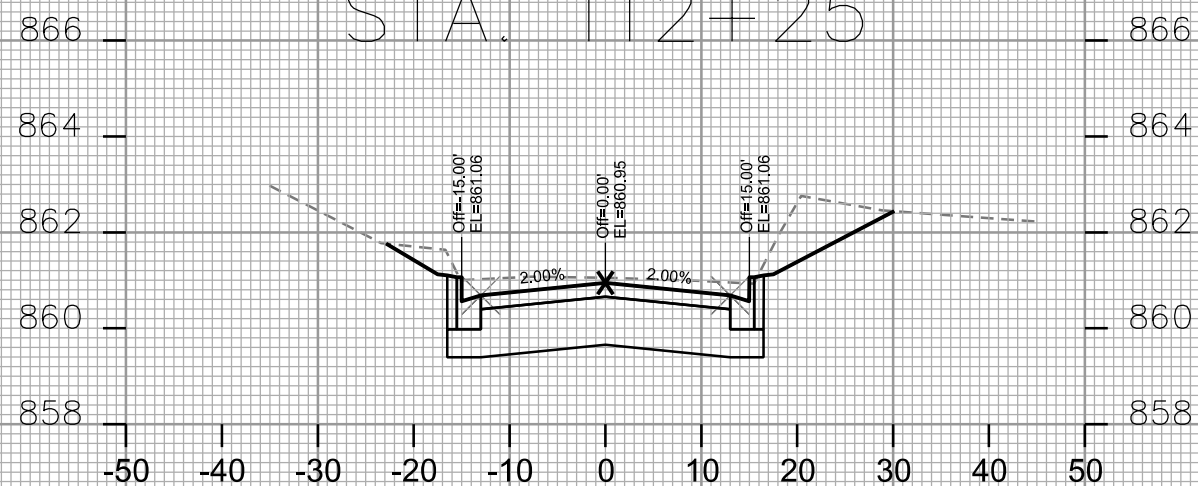
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



STA. 112+40



STA. 112+25



STA. 112+00



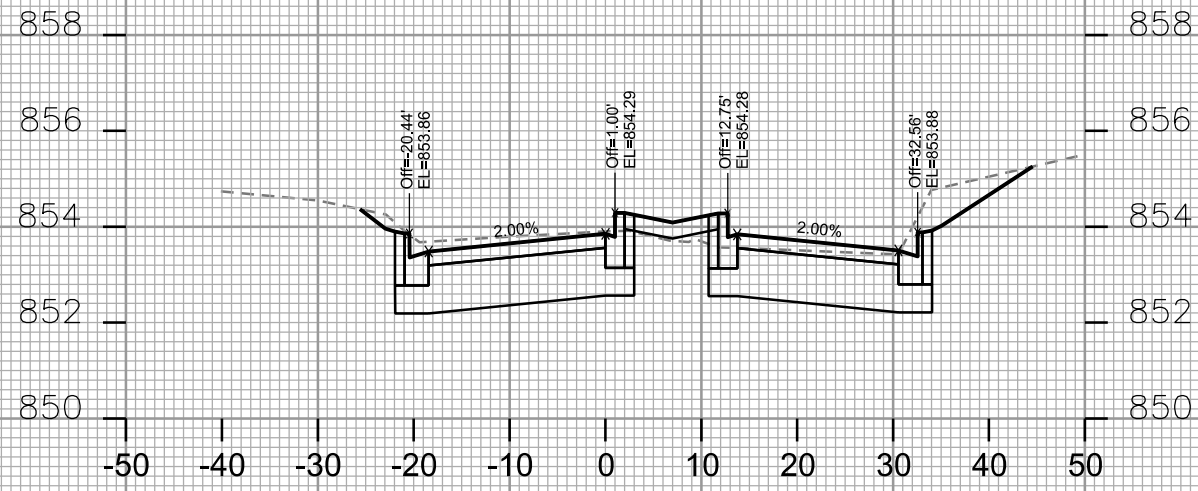
CROSS SECTIONS
LAKE EDGE BOULEVARD CITY OF MADISON

PLOT SCALE: _____

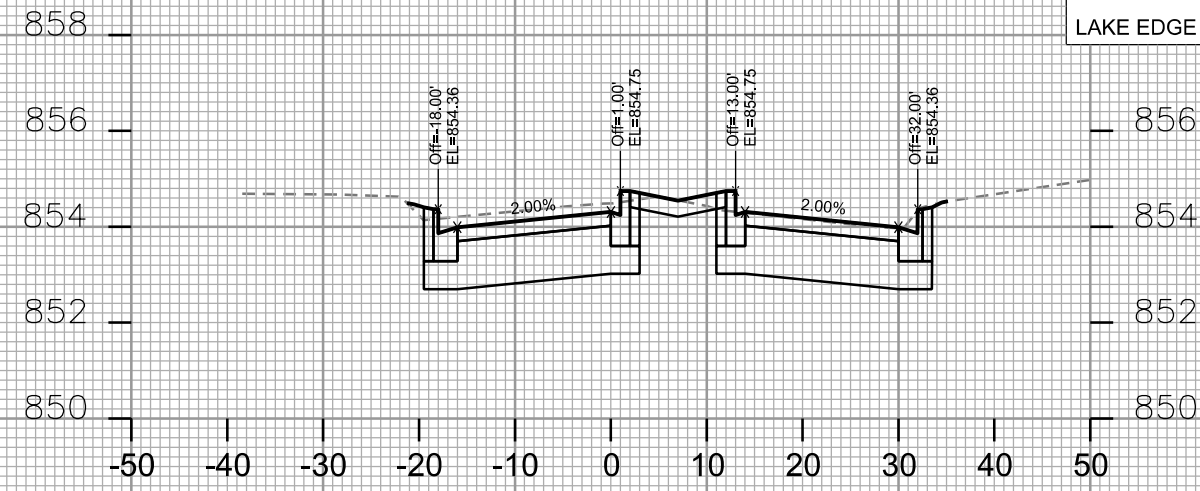
PLOT NAME: _____

REV. DATE: _____

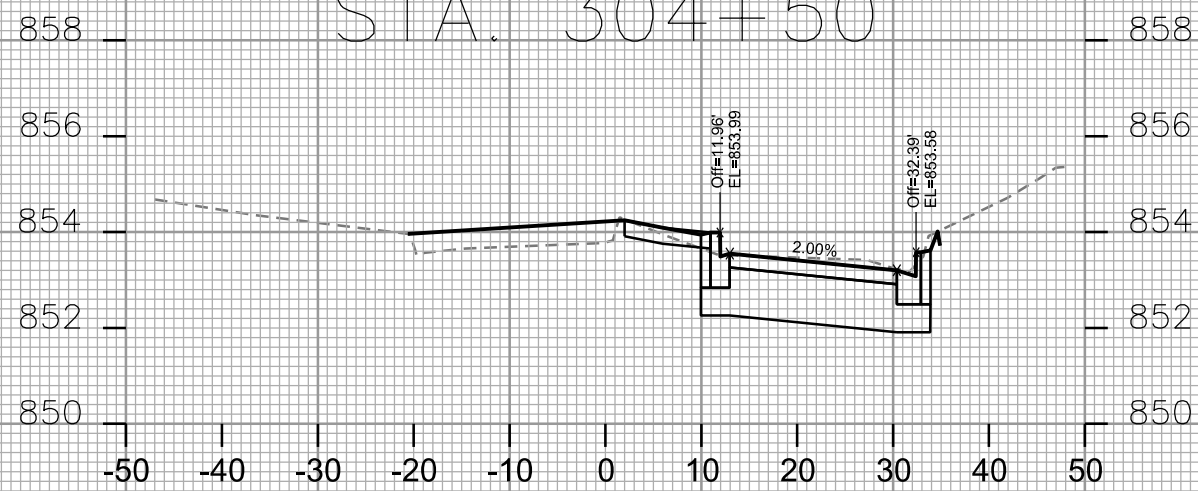
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



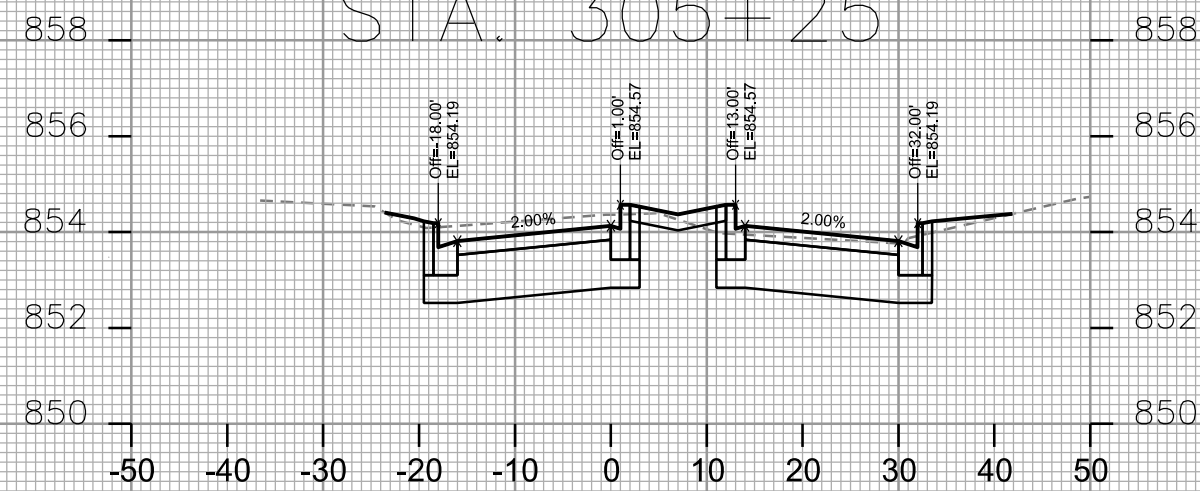
STA. 304+50



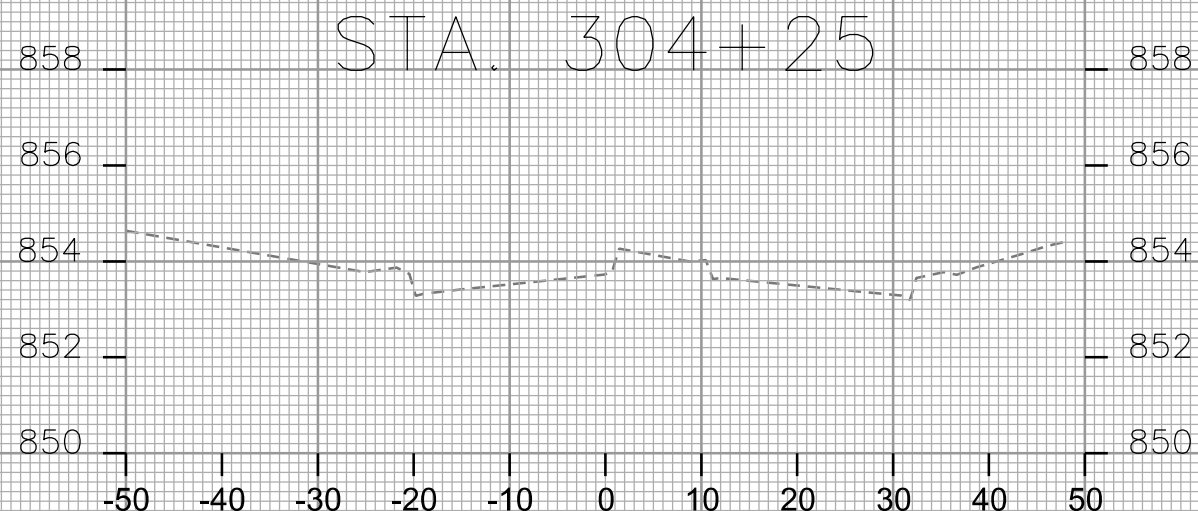
STA. 305+25



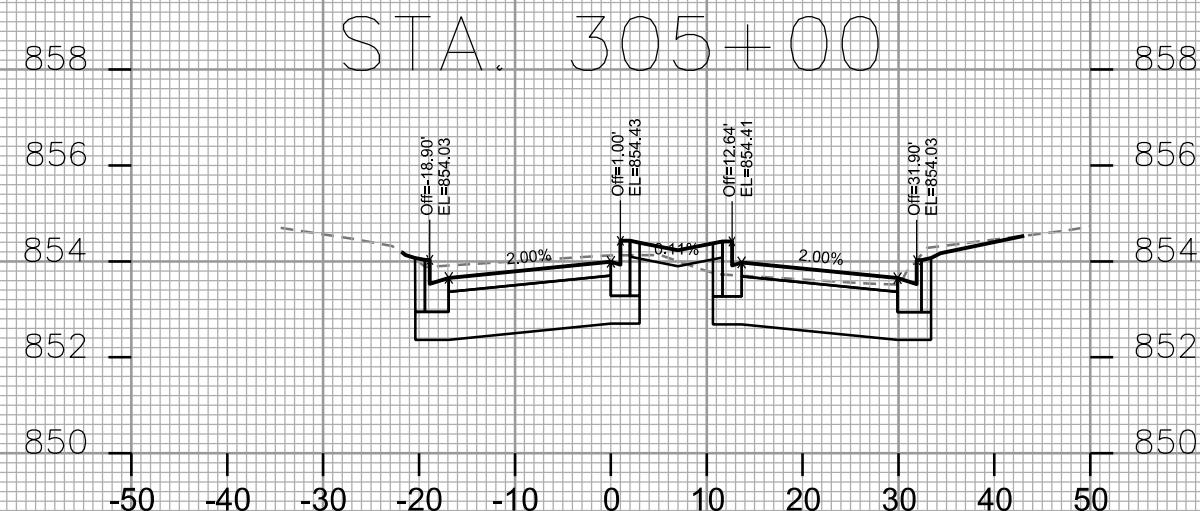
STA. 304+25



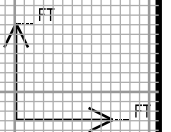
STA. 305+00



STA. 304+00



STA. 304+75



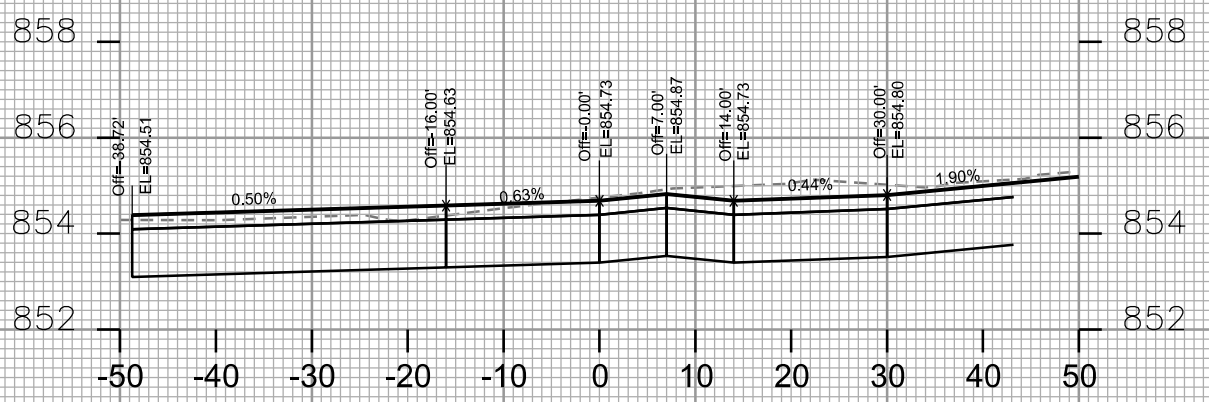
CROSS SECTIONS
LAKE EDGE BOULEVARD CITY OF MADISON

PLOT SCALE: _____

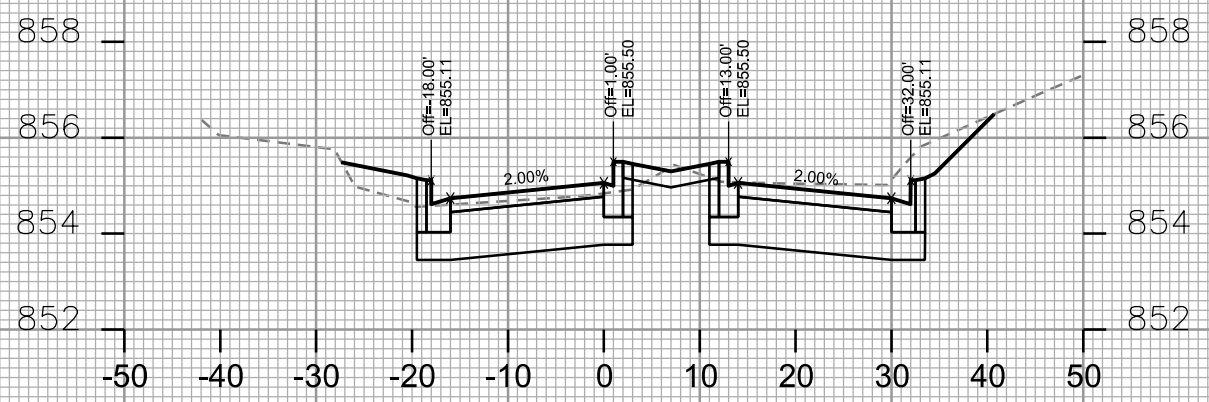
PLOT NAME: _____

REV. DATE: _____

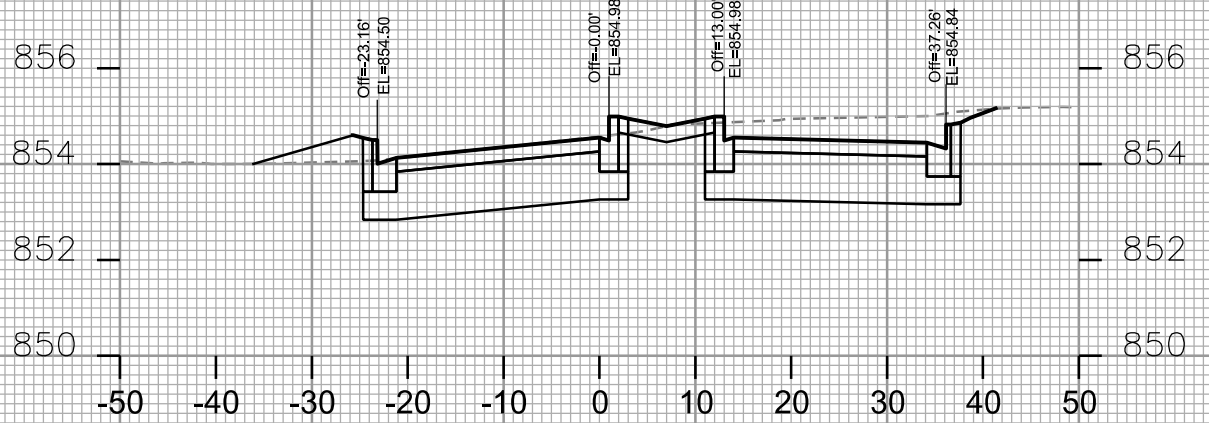
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



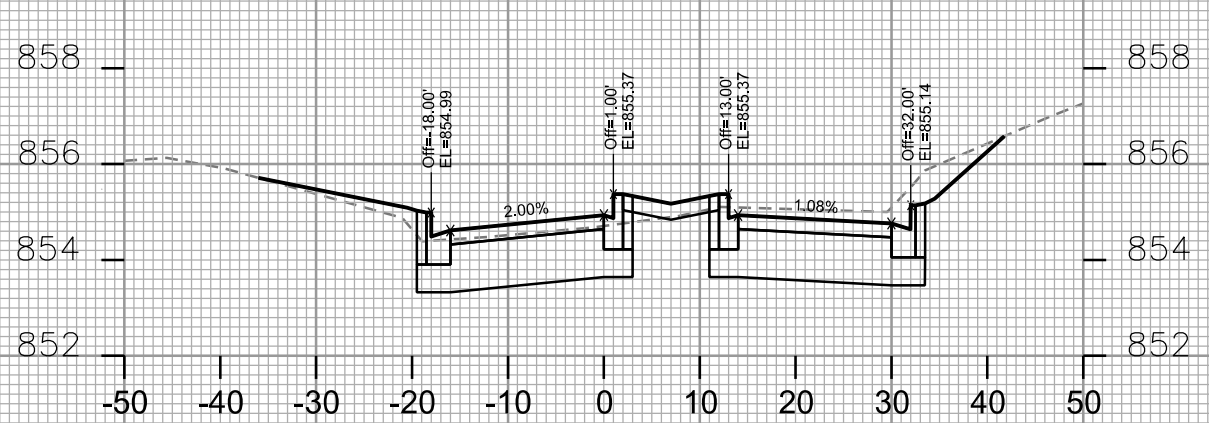
STA. 306+08.8



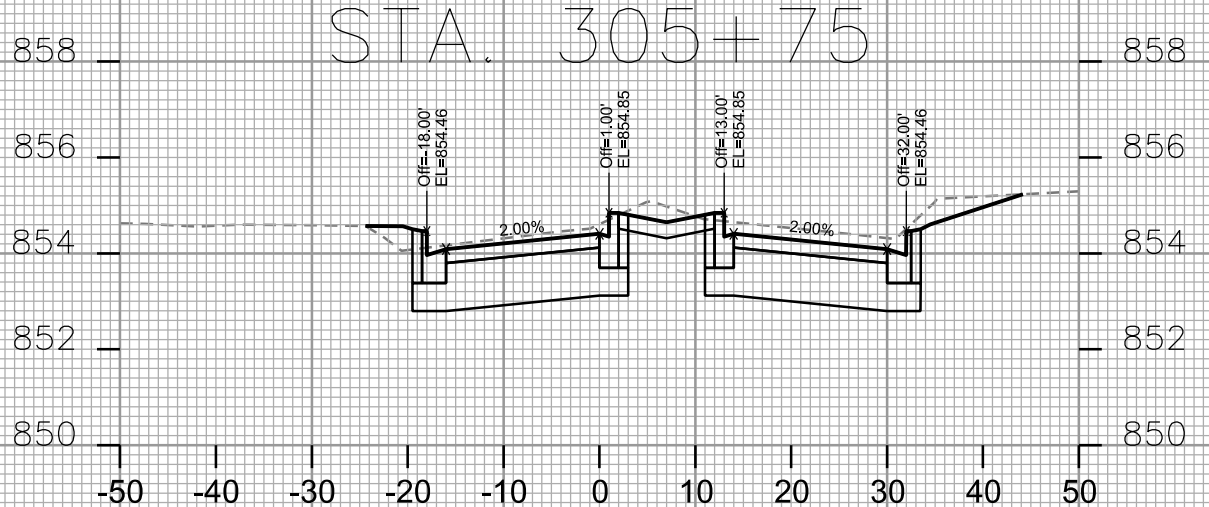
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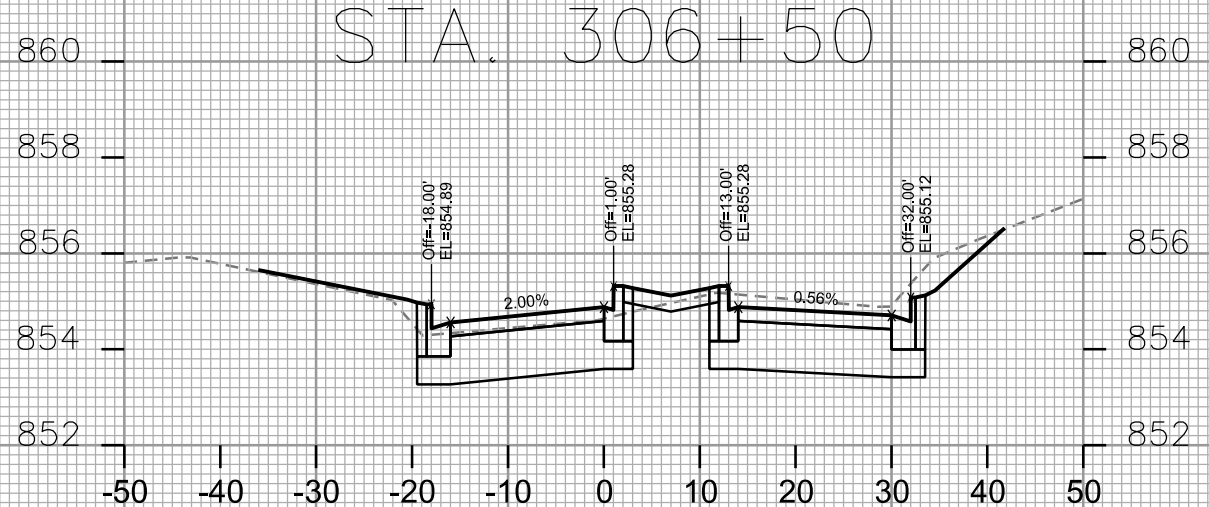
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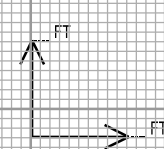
STA. 306+50



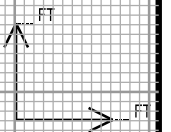
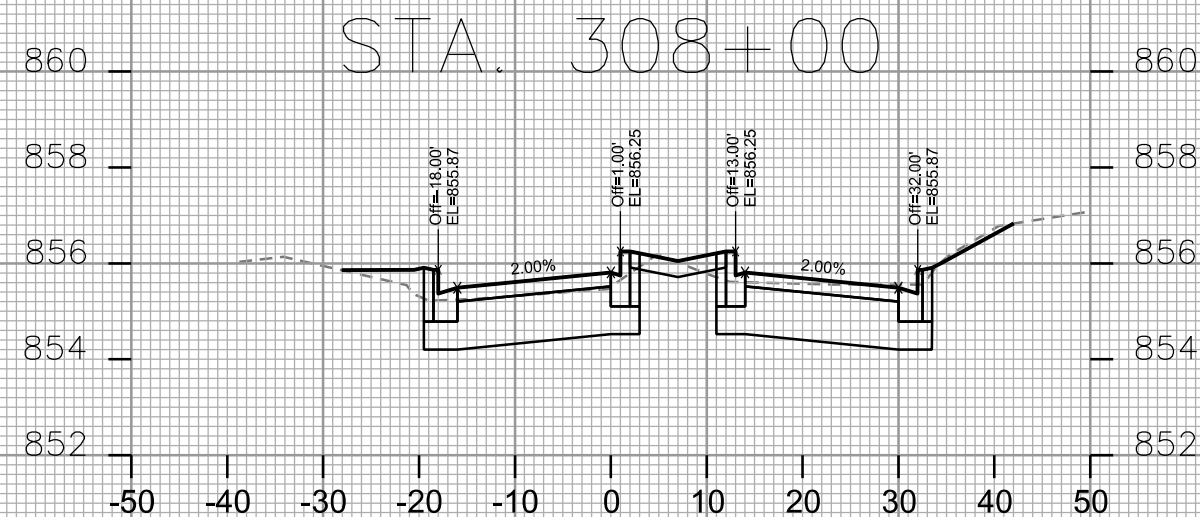
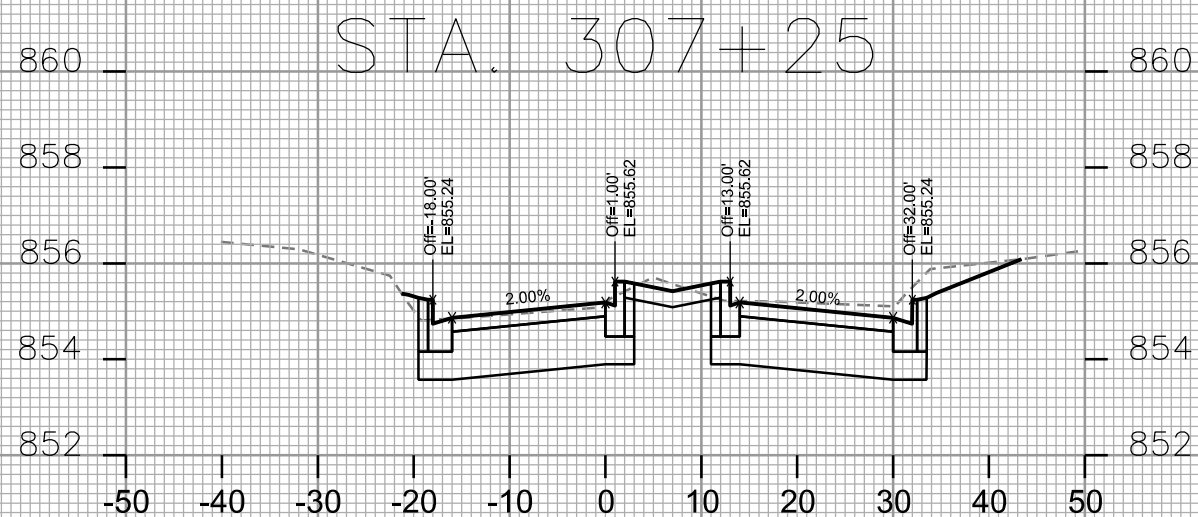
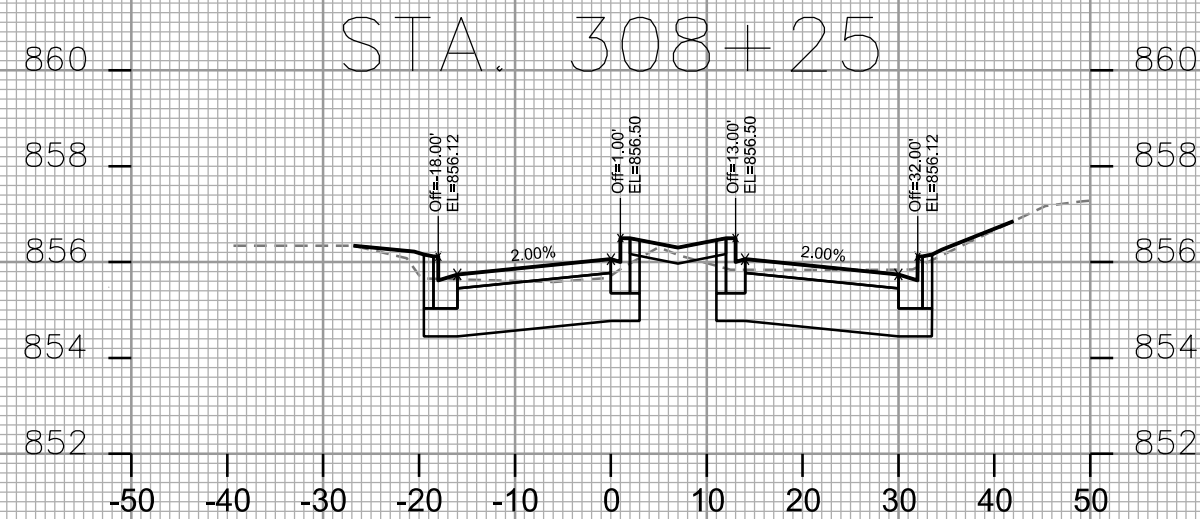
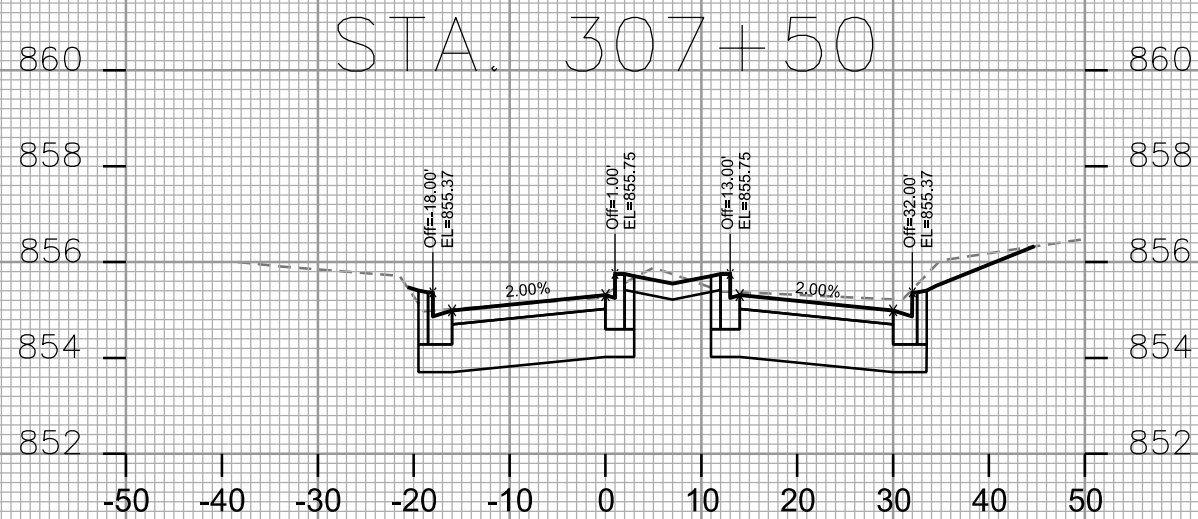
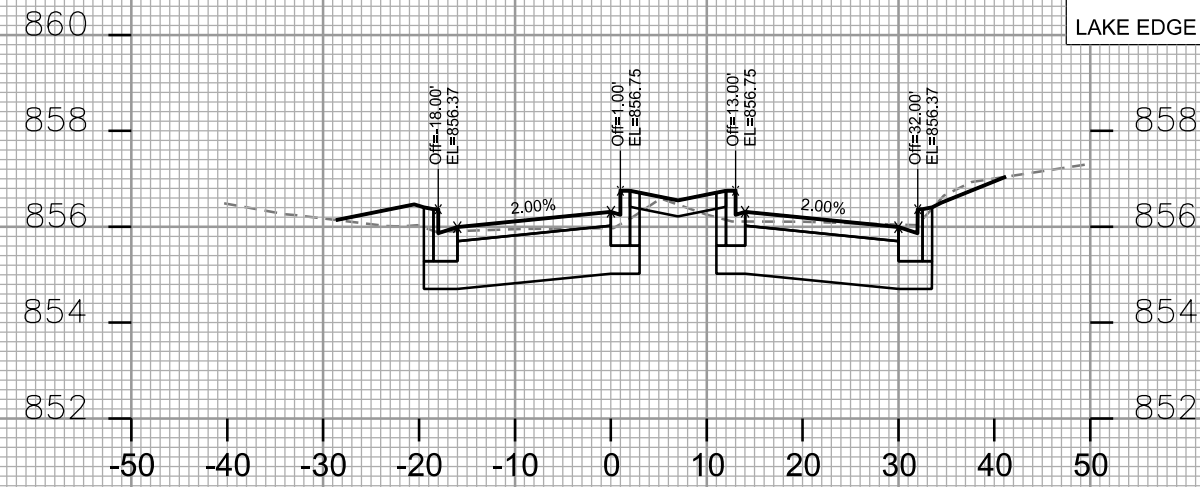
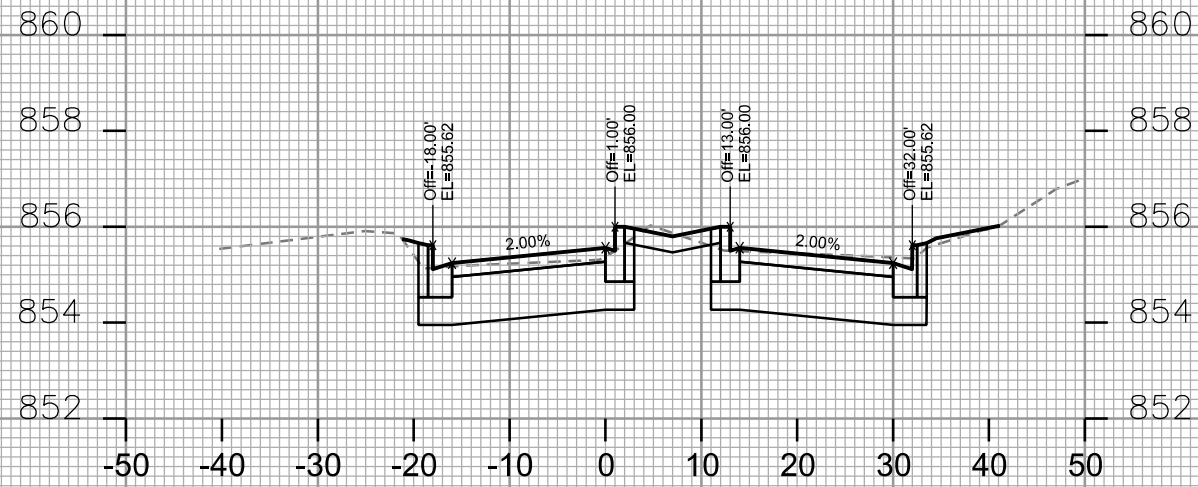
STA. 305+50



STA. 306+30.76



CROSS SECTIONS
LAKE EDGE BOULEVARD CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

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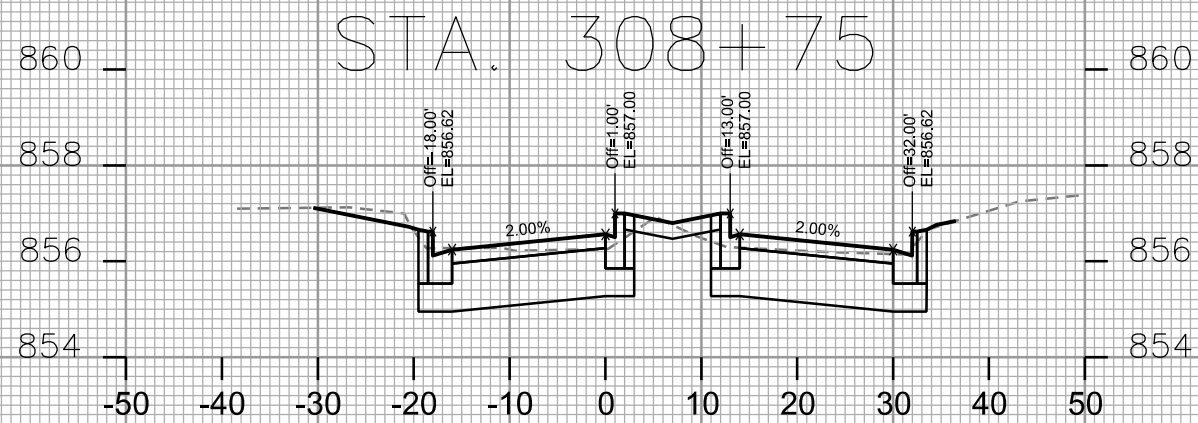
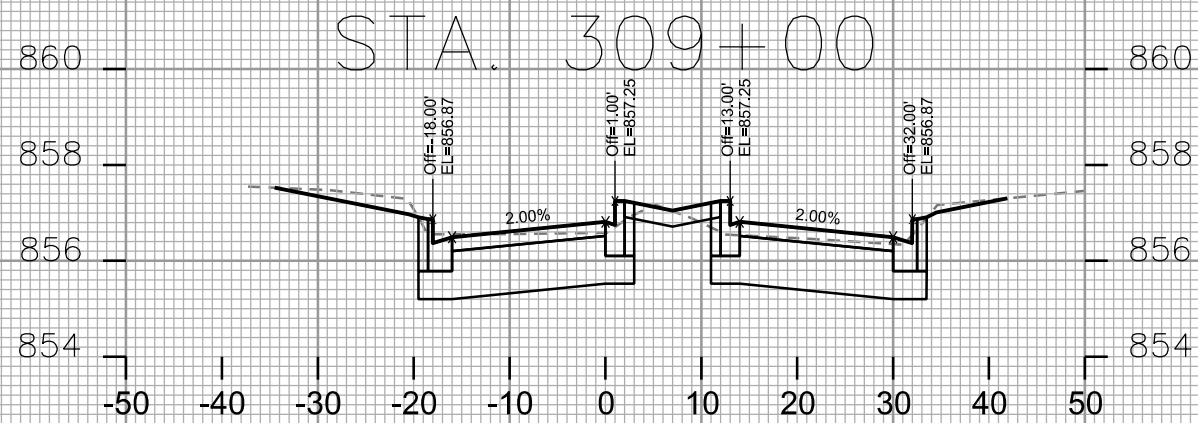
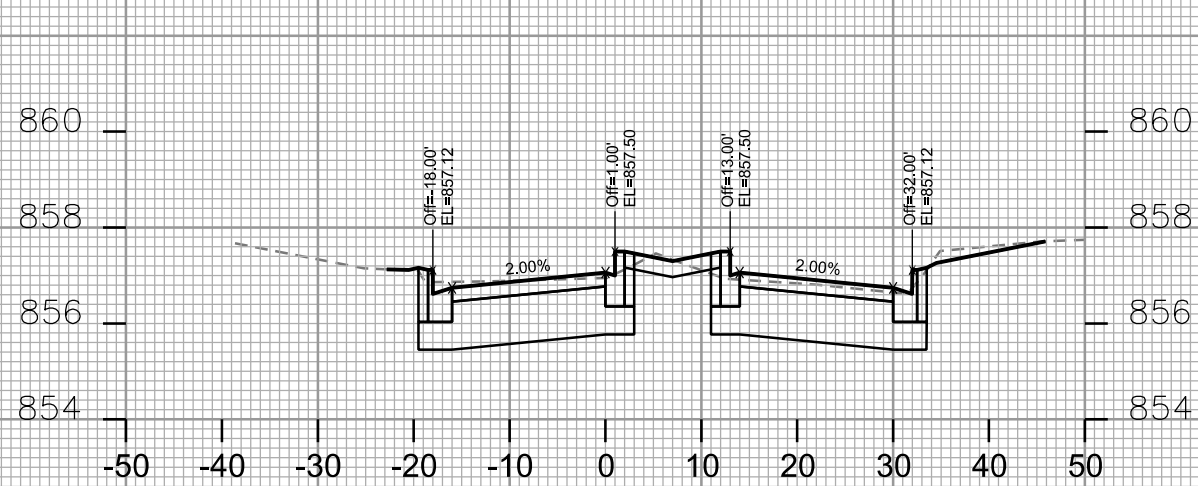
CROSS SECTIONS
LAKE EDGE BOULEVARD CITY OF MADISON

PLOT SCALE: _____

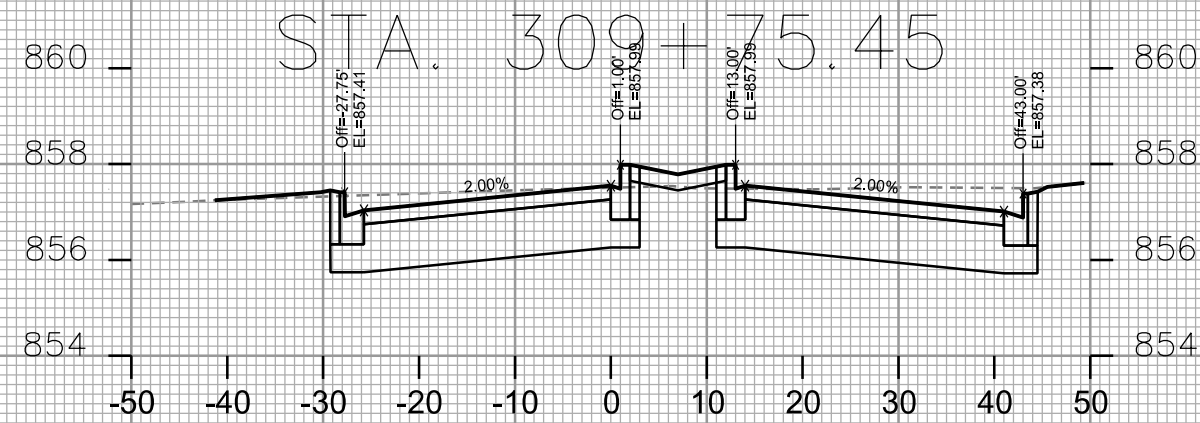
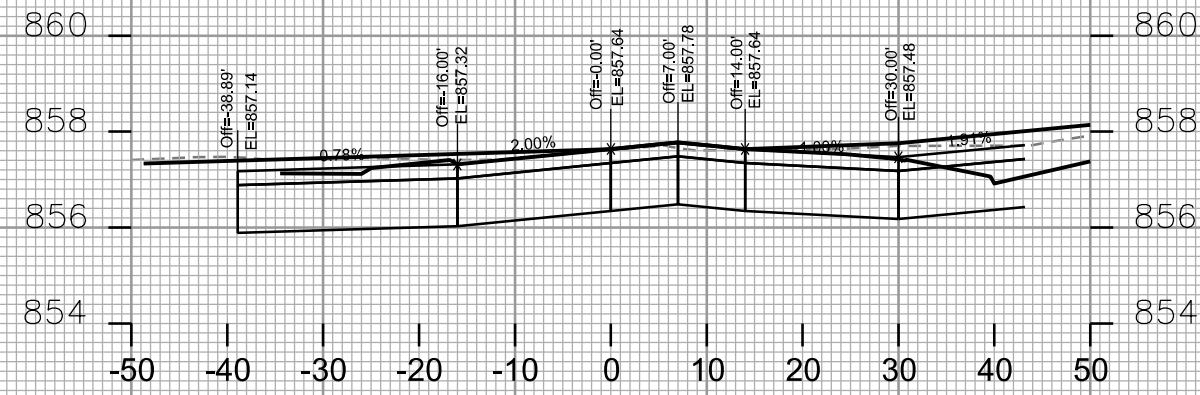
PLOT NAME: _____

REV. DATE: _____

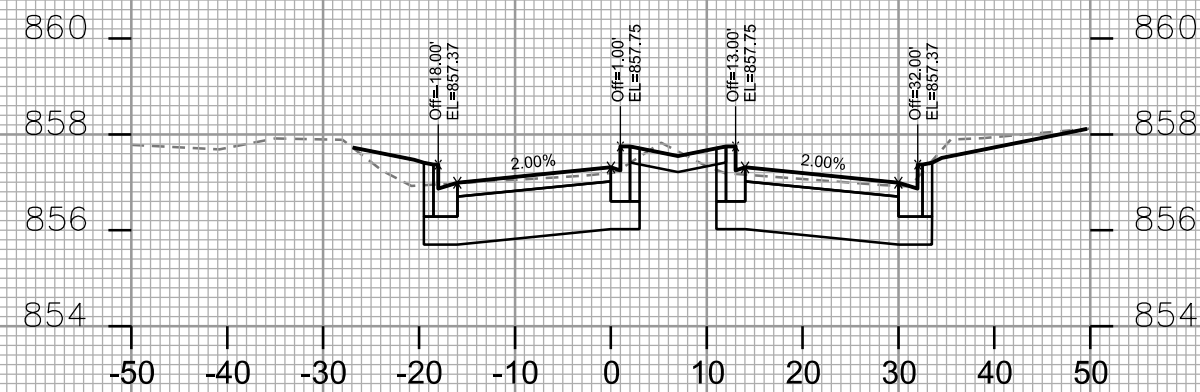
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



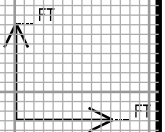
STA. 308+50



STA. 309+50



STA. 309+25



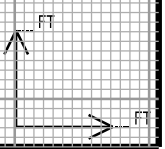
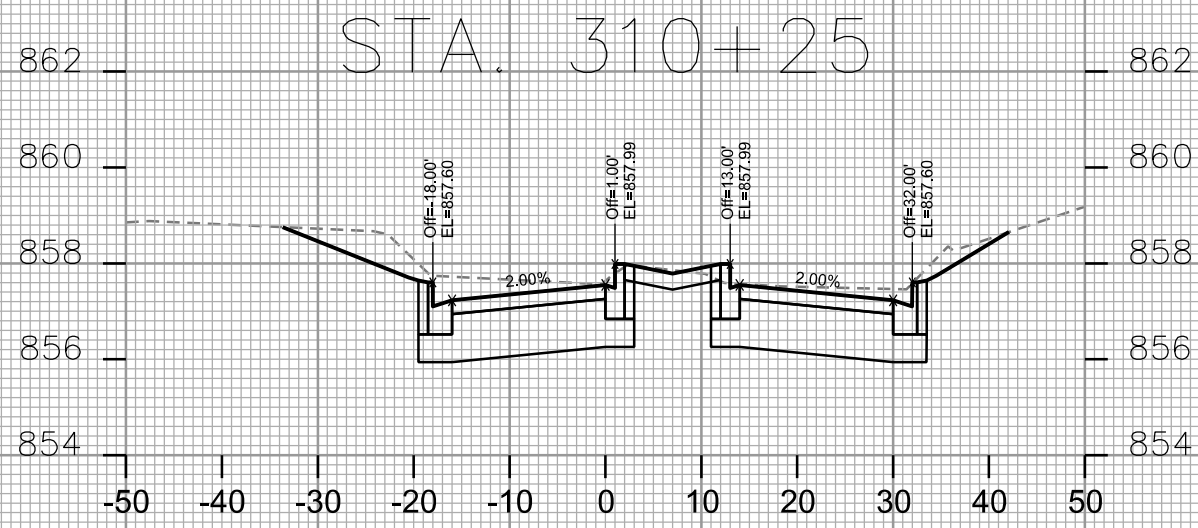
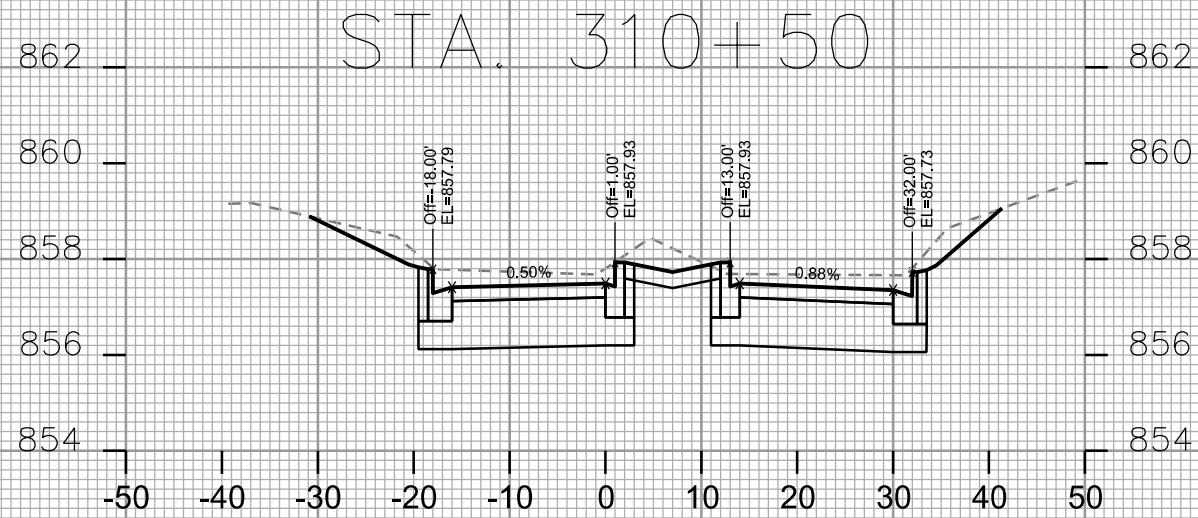
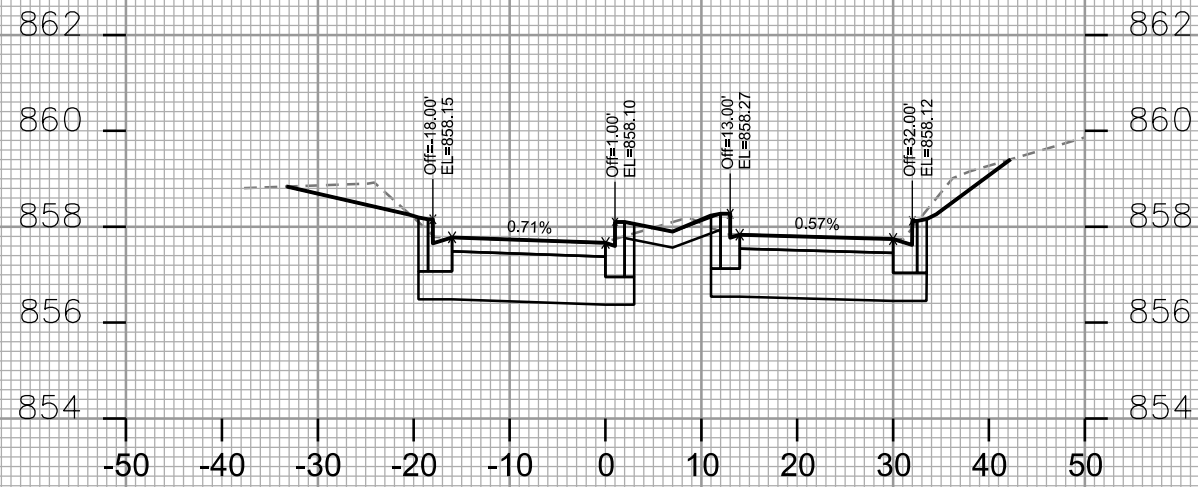
CROSS SECTIONS
LAKE EDGE BOULEVARD CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



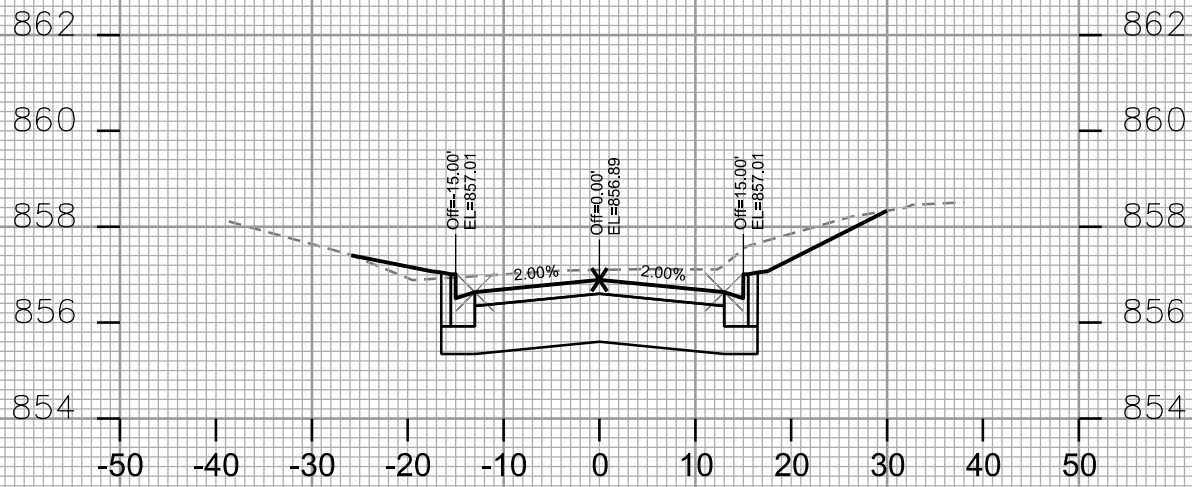
CROSS SECTIONS
MAJOR AVENUE CITY OF MADISON

PLOT SCALE: _____

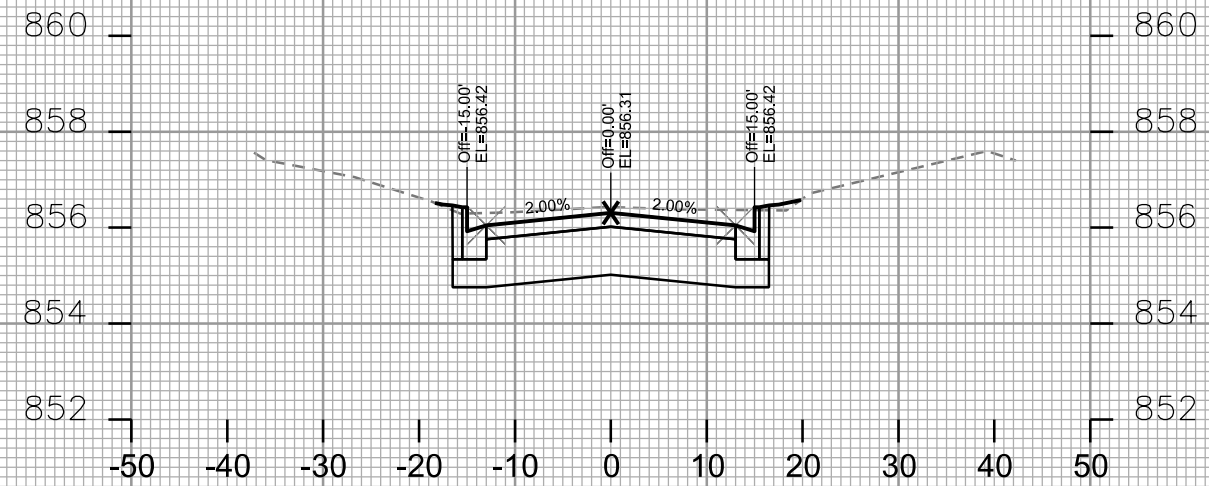
PLOT NAME: _____

REV. DATE: _____

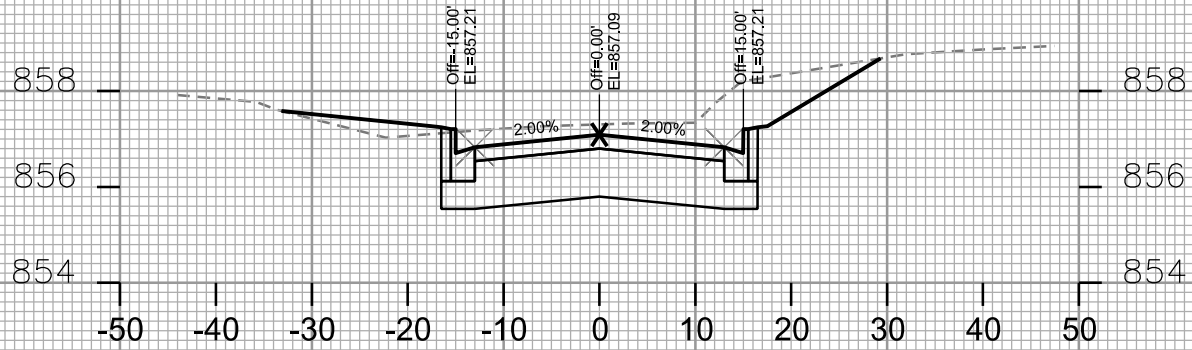
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



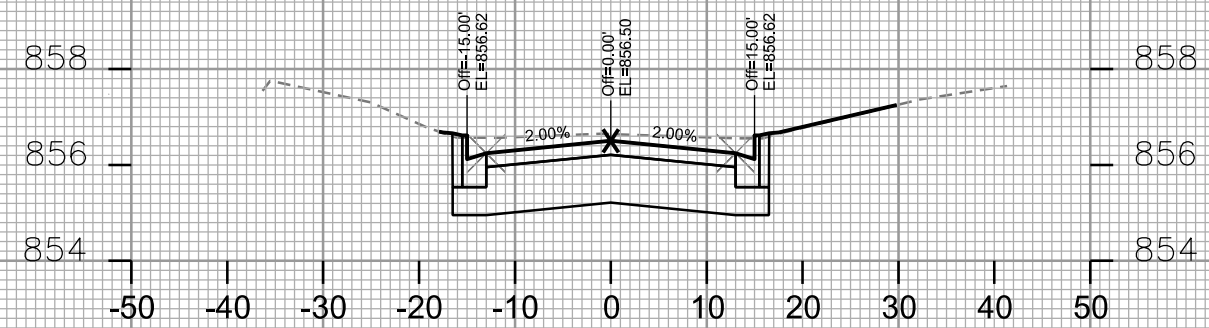
STA. 204+75



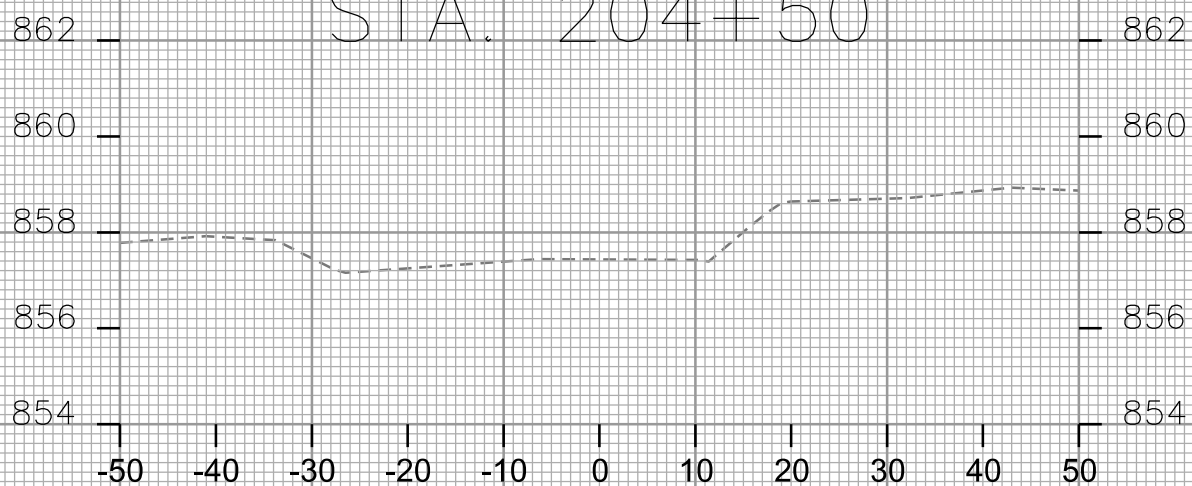
STA. 205+50



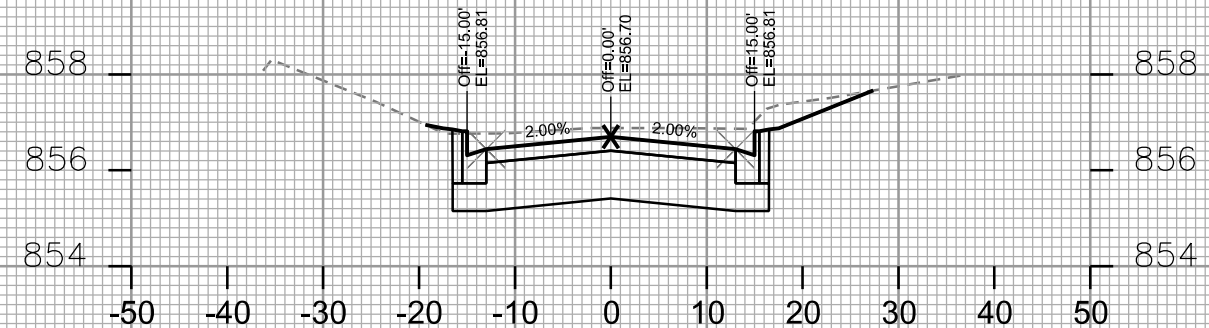
STA. 204+50



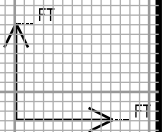
STA. 205+25



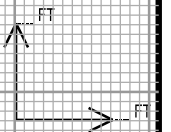
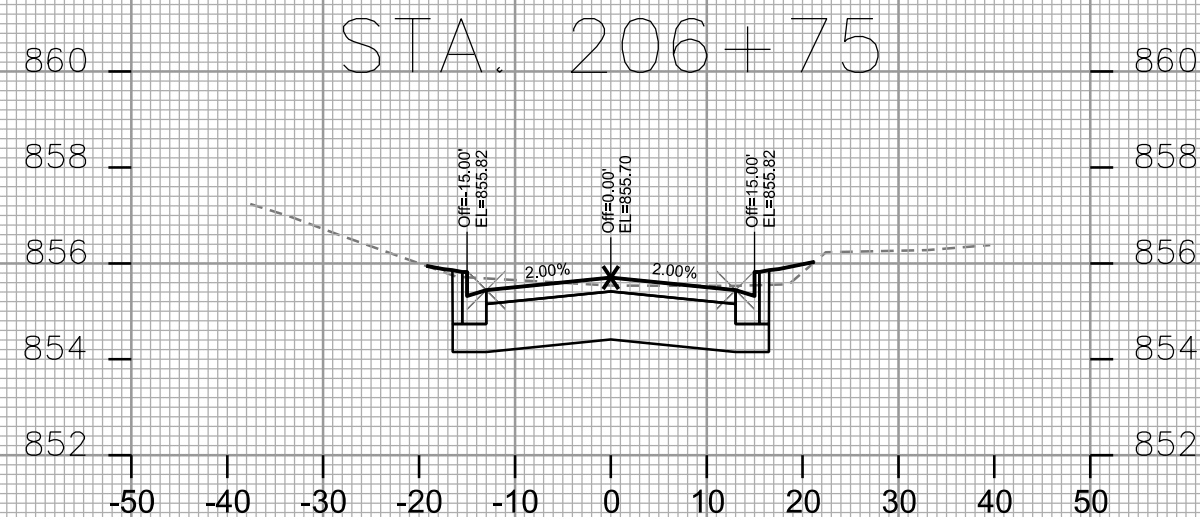
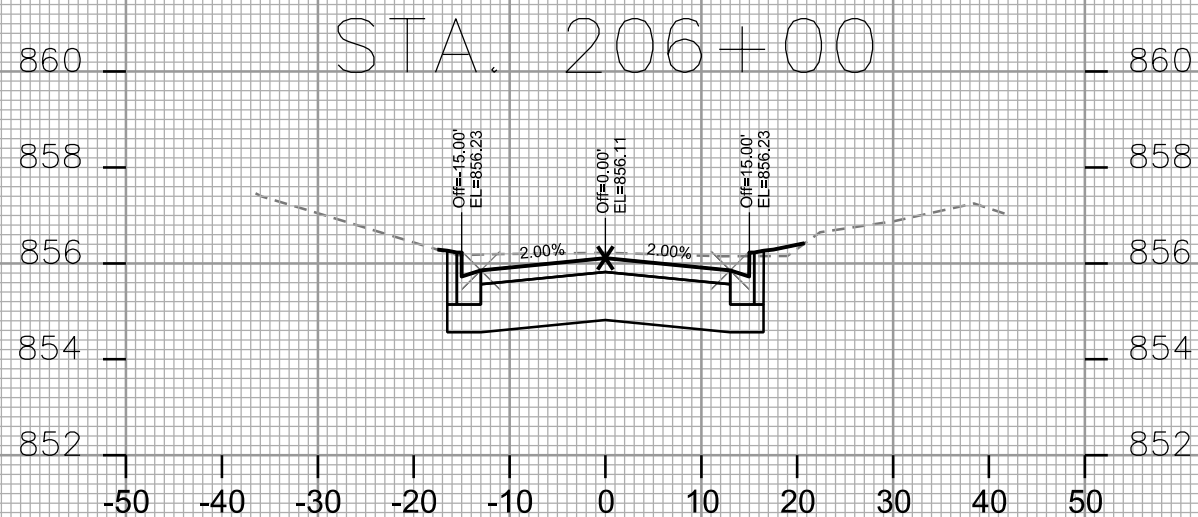
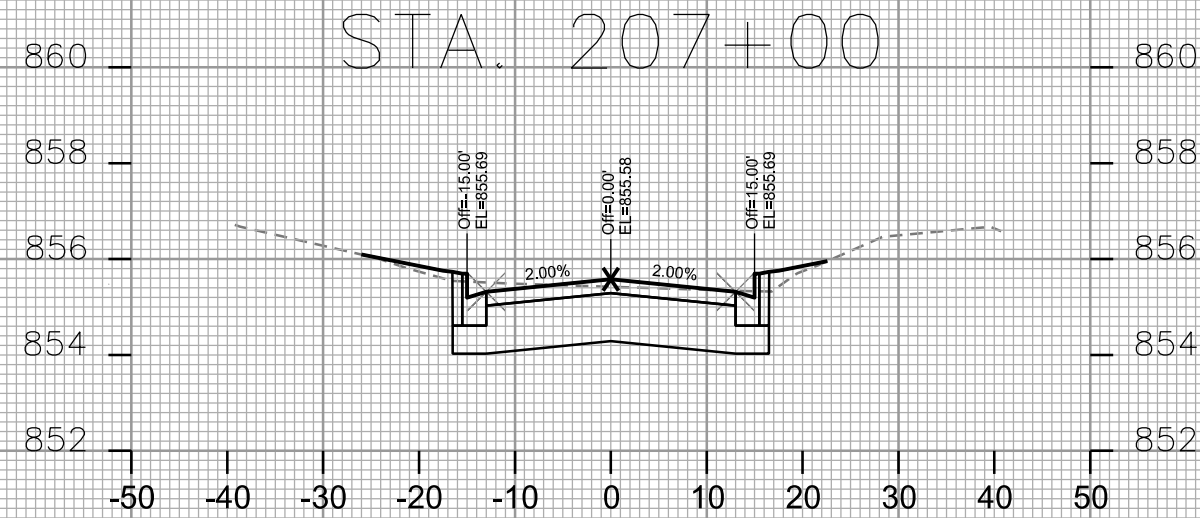
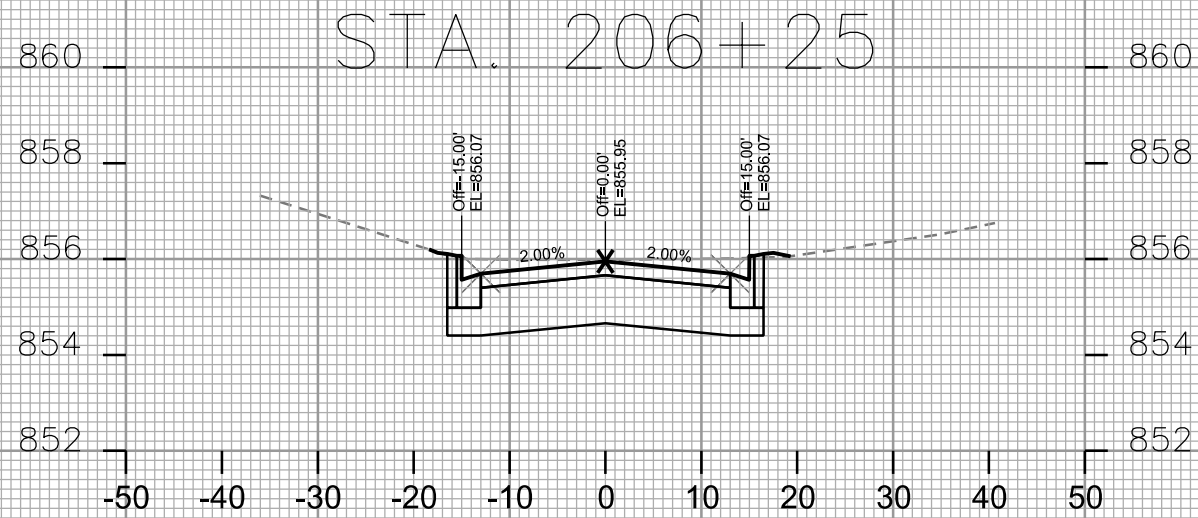
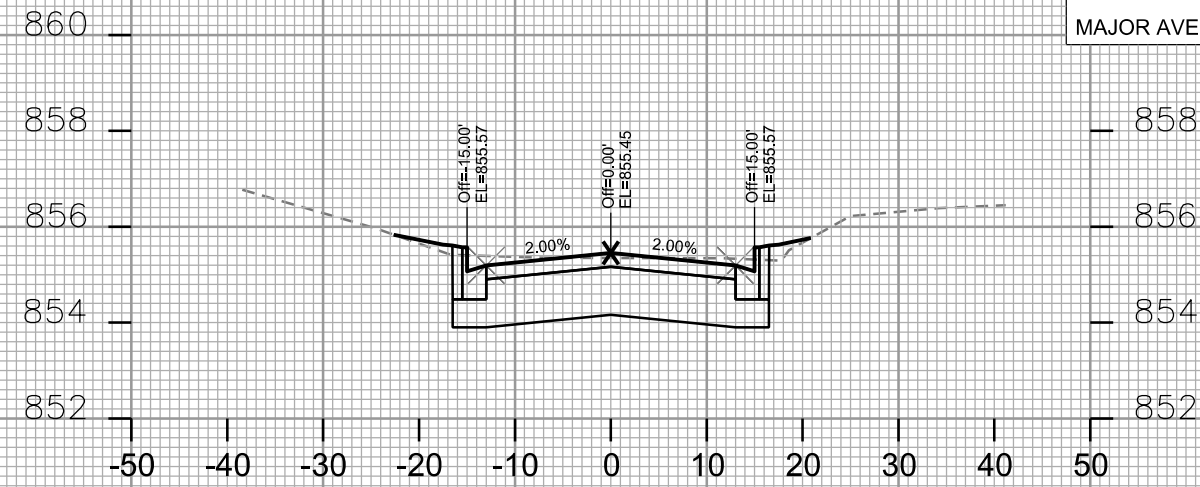
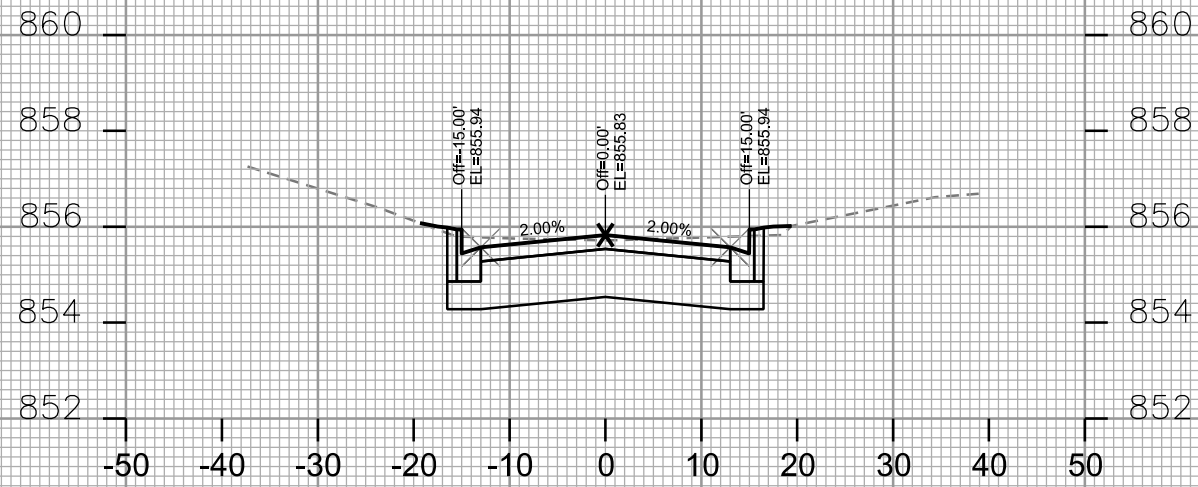
STA. 204+25



STA. 205+00



CROSS SECTIONS
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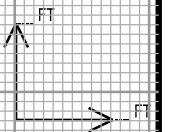
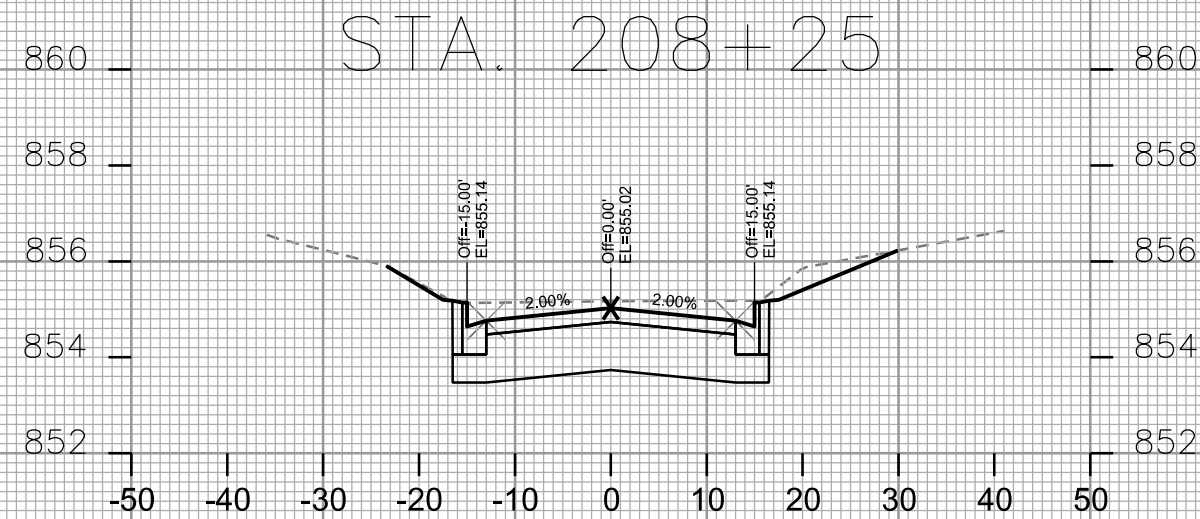
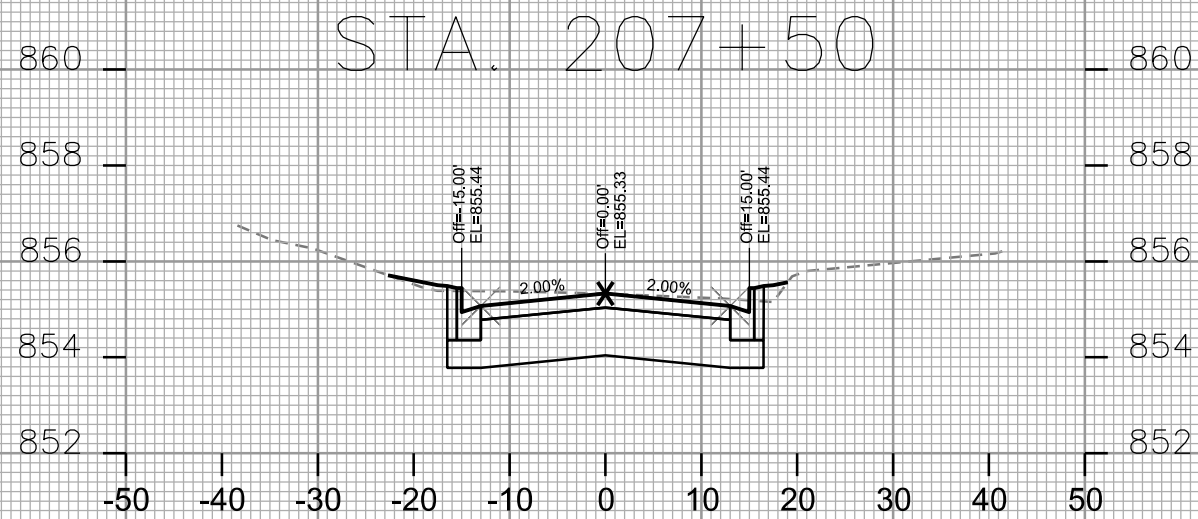
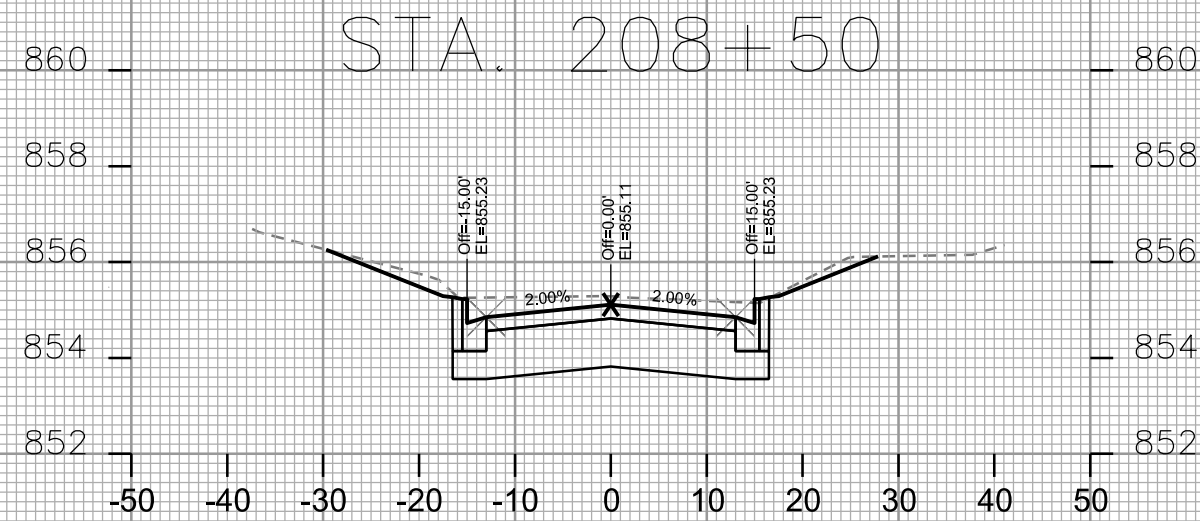
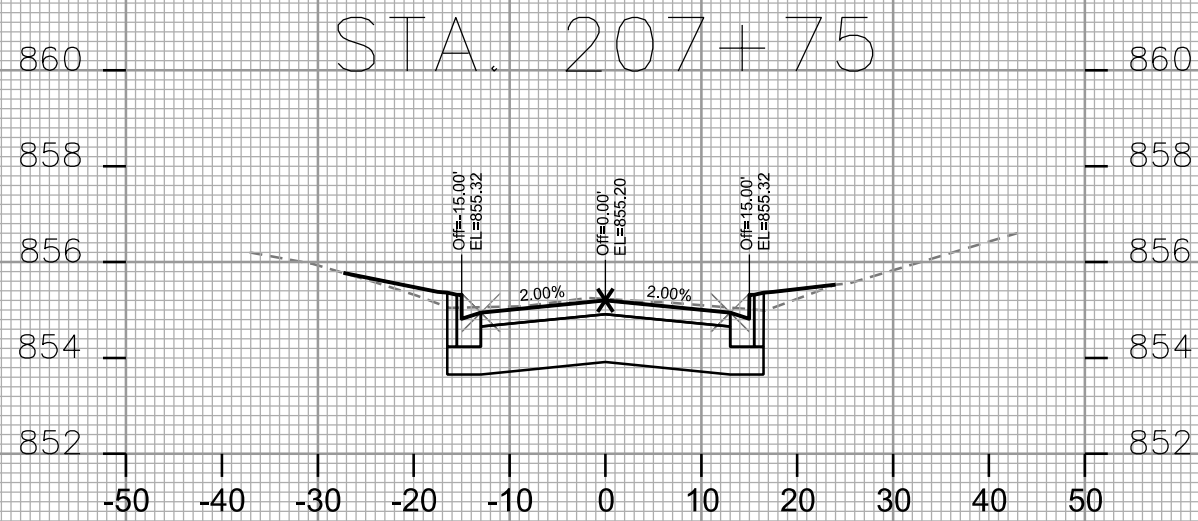
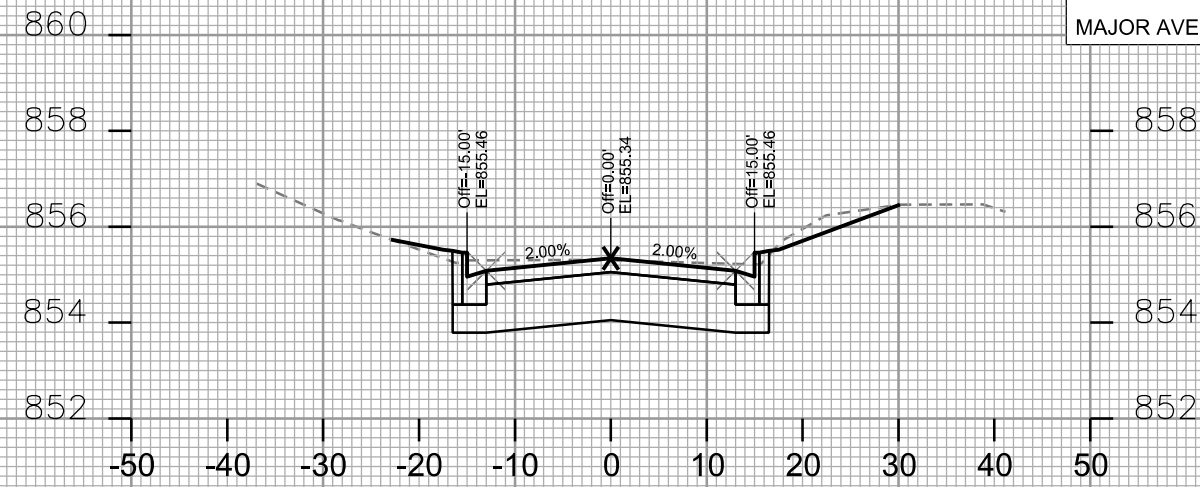
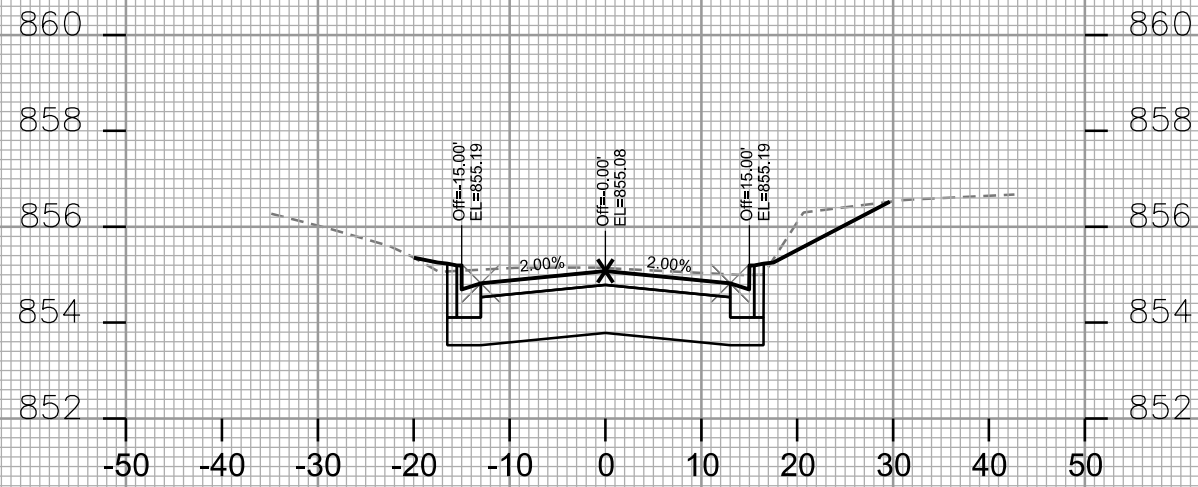
PLOT SCALE: _____

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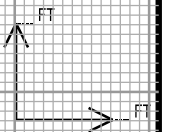
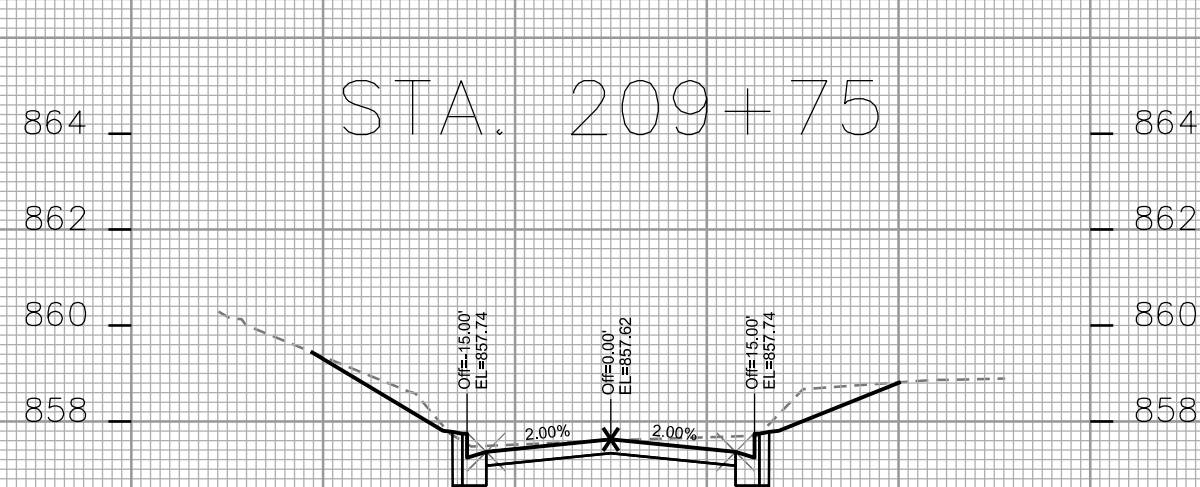
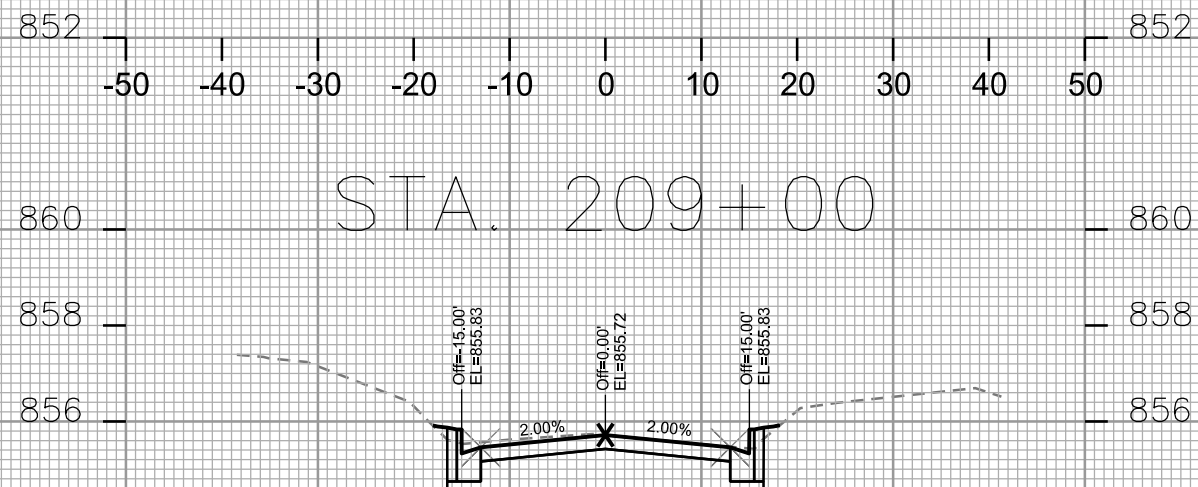
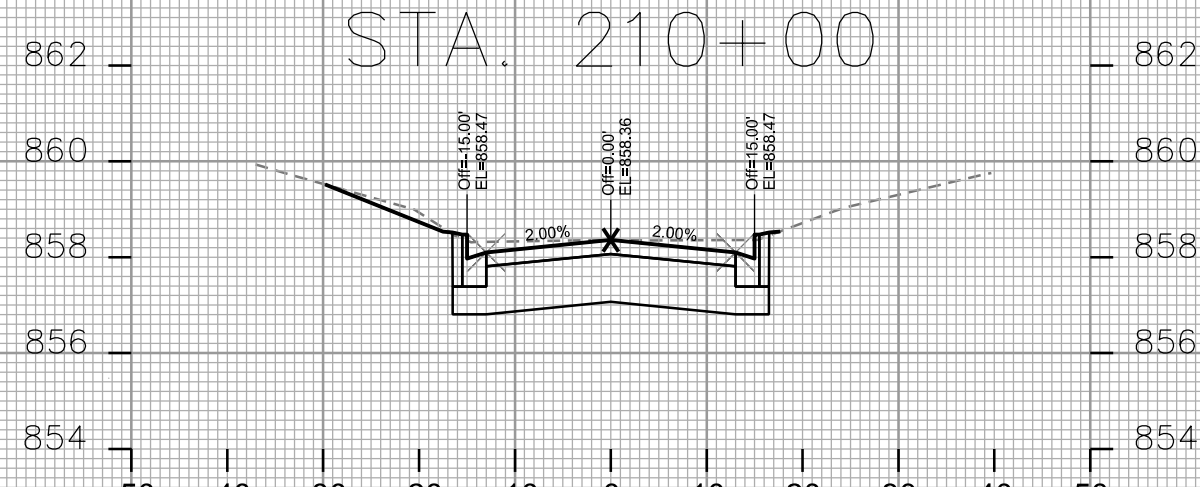
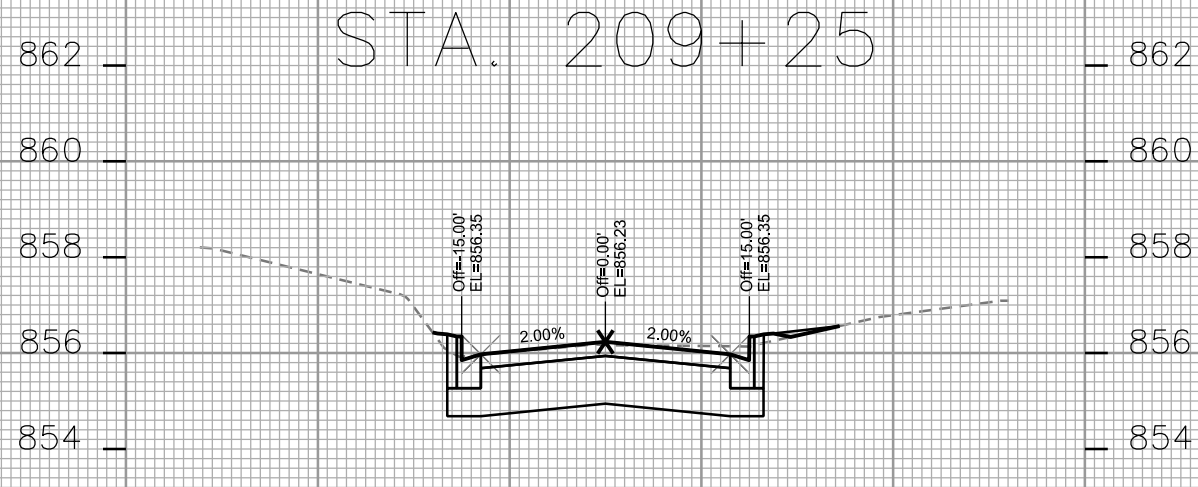
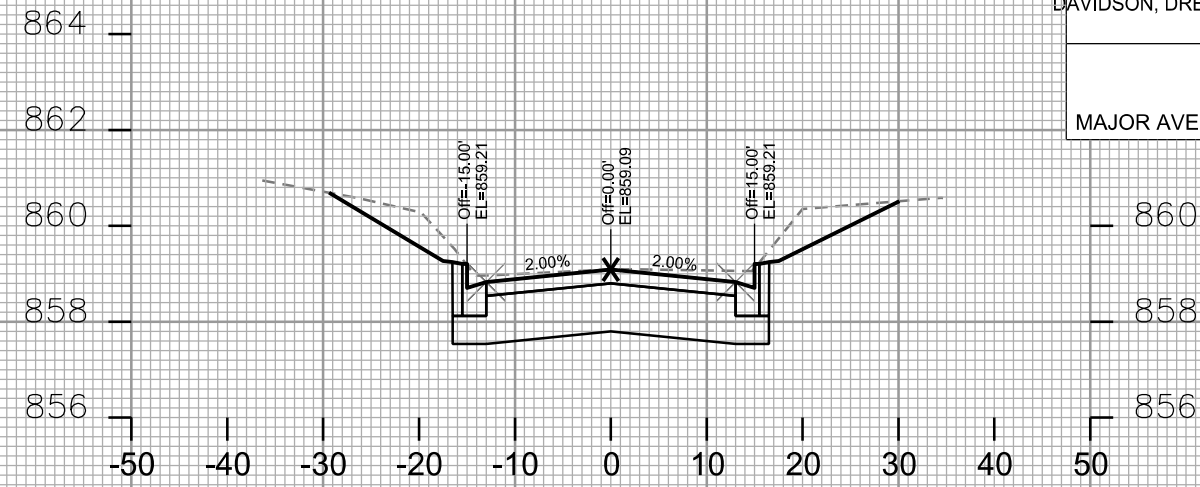
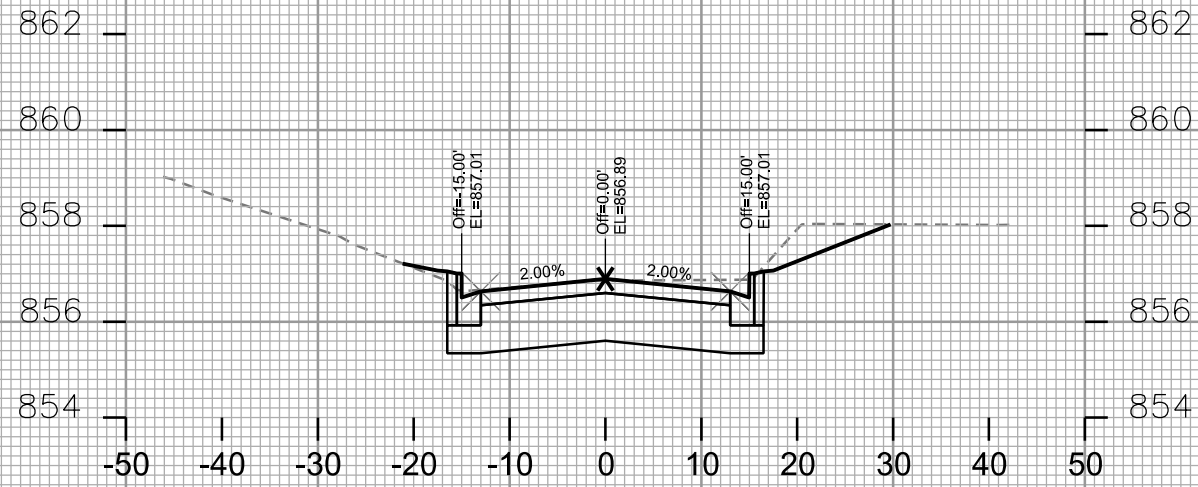
CROSS SECTIONS
MAJOR AVENUE CITY OF MADISON

PLOT SCALE: _____

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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

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