

Madison, Wisconsin

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U5	STORM SEWER SCHEDULE
X1-X7	CROSS SECTIONS

CITY OF MADISON

CITY ENGINEERING DIVISION

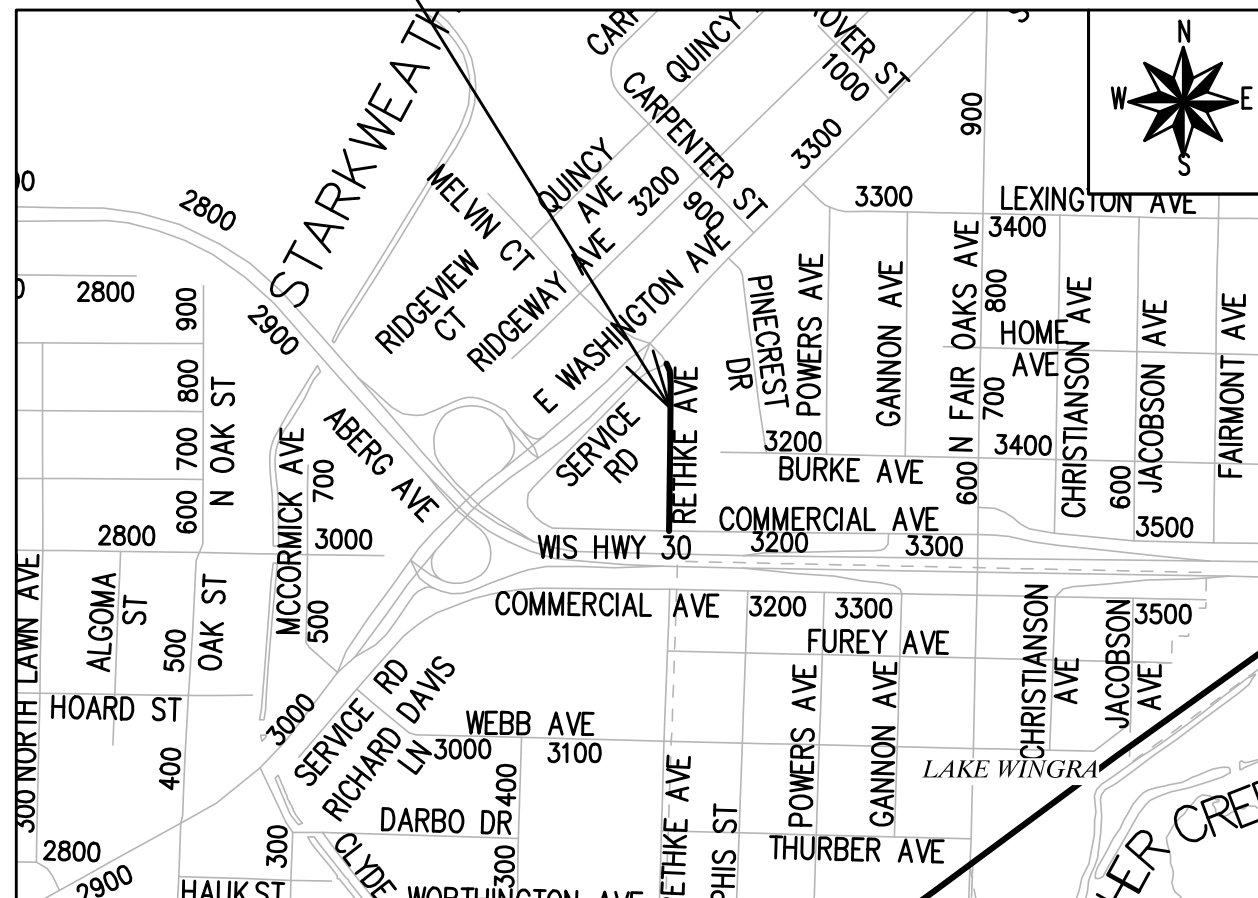
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2020

PROJECT
LOCATION

CITY PROJECT NO. 12693
CONTRACT NO. 8513



EARTH WORK SUMMARY:
EXCAVATION CUT(MEASURED PLAN QUANTITY) = 2890 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT= 245 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT = 3135 C.Y.

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣
COMBUSTIBLE FLUIDS	☀

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

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAPMS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12", SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.50%. 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%.

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: MARCH 31, 2020

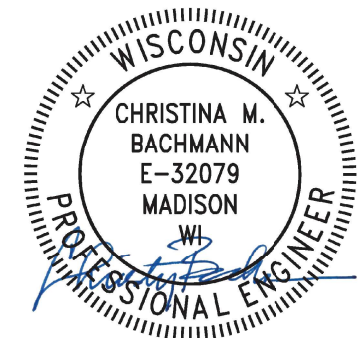
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

W. Greg Fries May 14, 2020

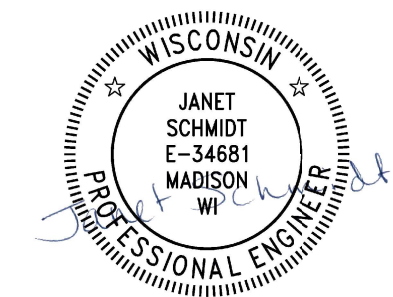
City Engineer Date

STREET DESIGNED BY:



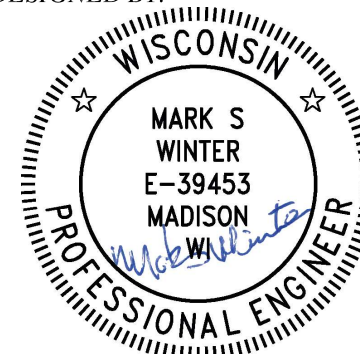
May 14, 2020

STORM SEWER DESIGNED BY:



May 14, 2020

GEOMETRICS DESIGNED BY:



May 14, 2020

SANITARY SEWER DESIGNED BY:



May 14, 2020

PLOT SCALE: 1 IN=1 FT_XREF

PLOT NAME: ---

REV. DATE: 5/14/2020 10:17 AM

ORIGINATOR: CITY_OF_MADISON

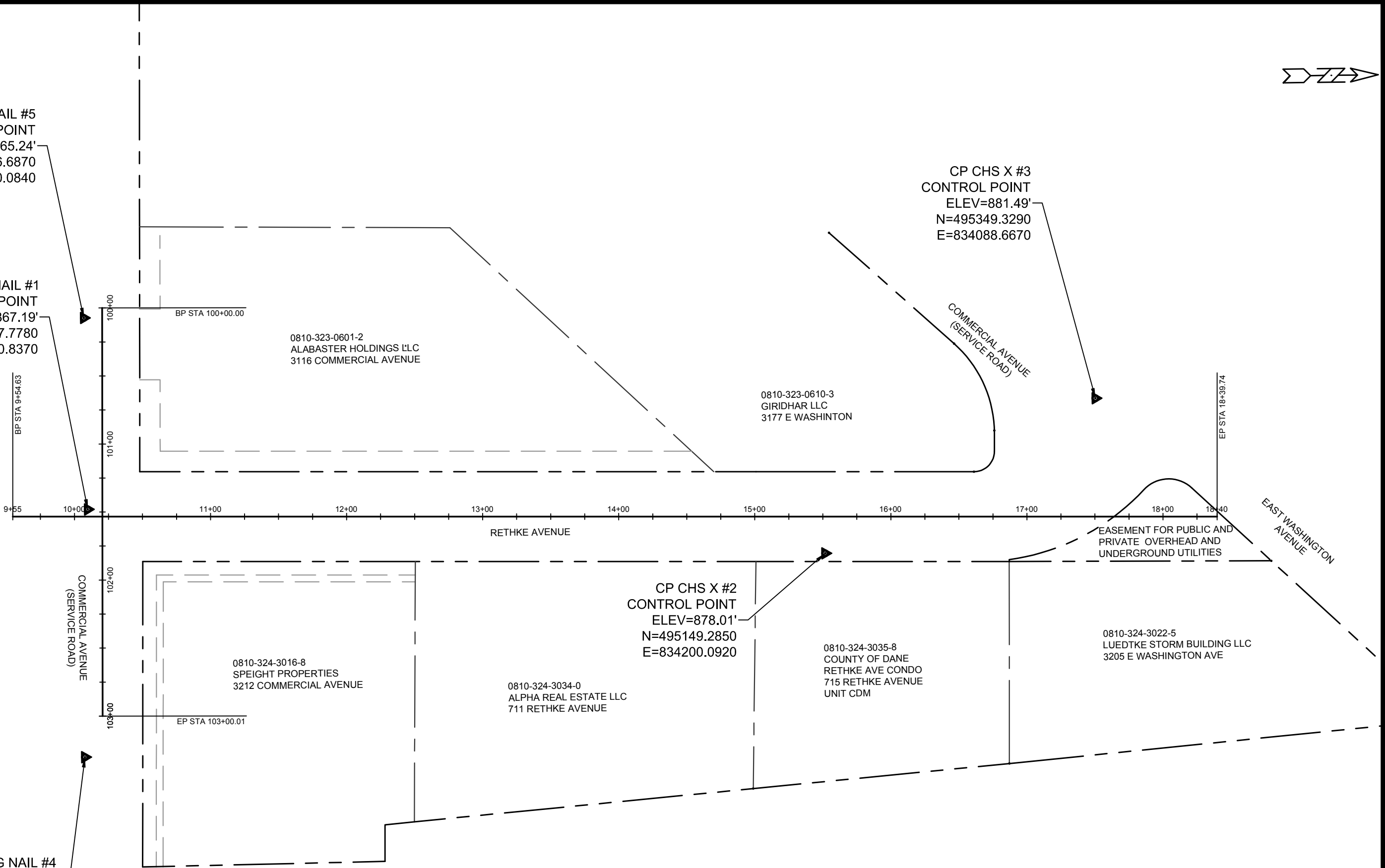
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E=834020.0840

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CONTROL POINT
ELEV=867.19'
N=494607.7780
E=834160.8370

CP CHS X #3
CONTROL POINT
ELEV=881.49'
N=495349.3290
E=834088.6670

CP CHS X #2
CONTROL POINT
ELEV=878.01'
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CONTROL POINT
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N=494603.3610
E=834342.9120



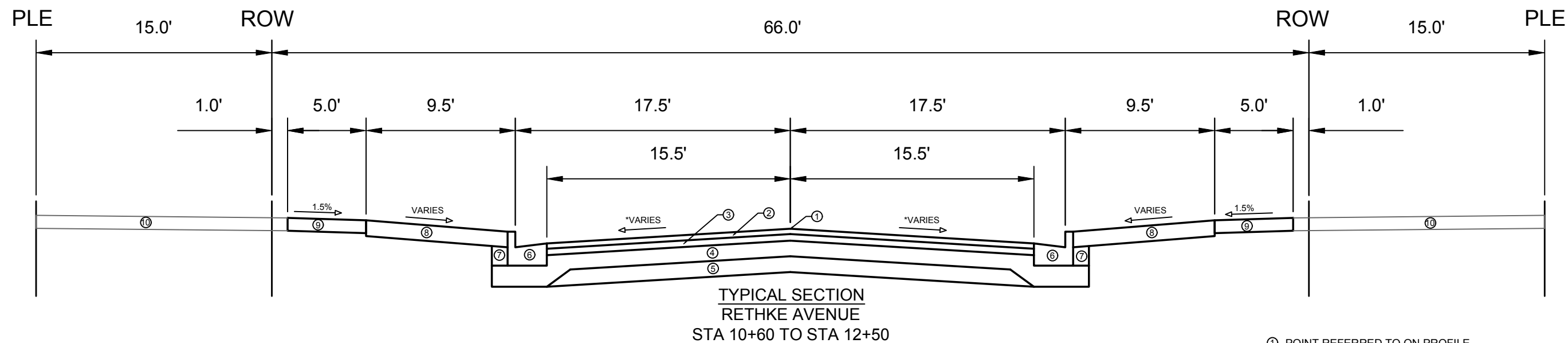
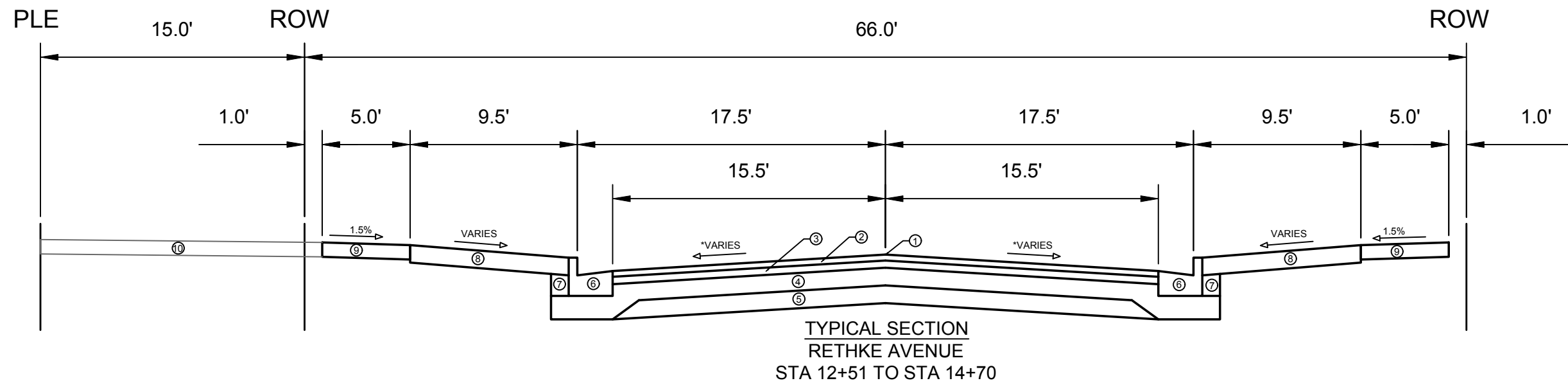
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12693
MADISON, WI
CONTRACT NO: 8513

OVERVIEW PLAN
RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
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12693
O-1



SPECIAL NOTES:

* SEE X-SHEETS FOR CROSS SLOPES

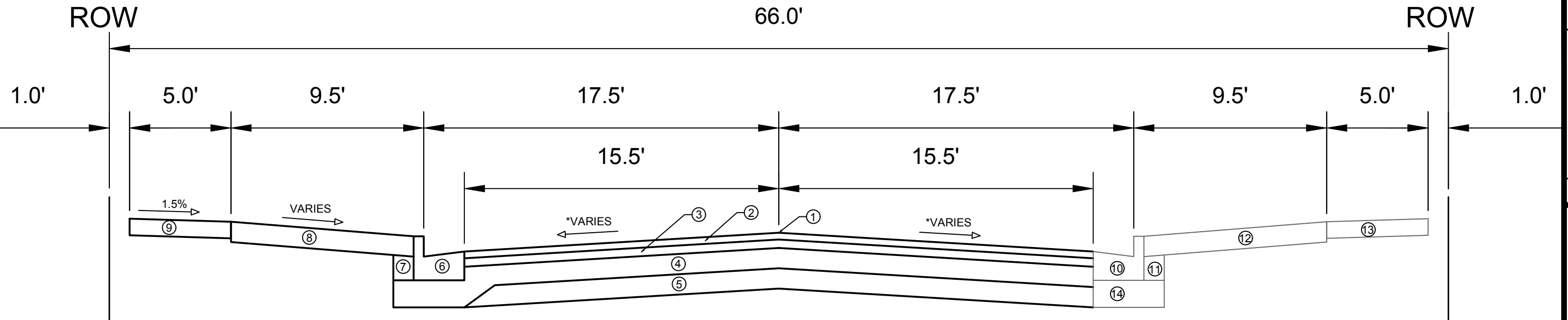
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- ③ 2.5" HMA PAVEMENT- TYPE 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A'
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ 5" CONCRETE SIDEWALK
- ⑩ EXISTING ASPHALT PAVEMENT

12693
 MADISON, WI
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
 CONTRACT NO: 8513
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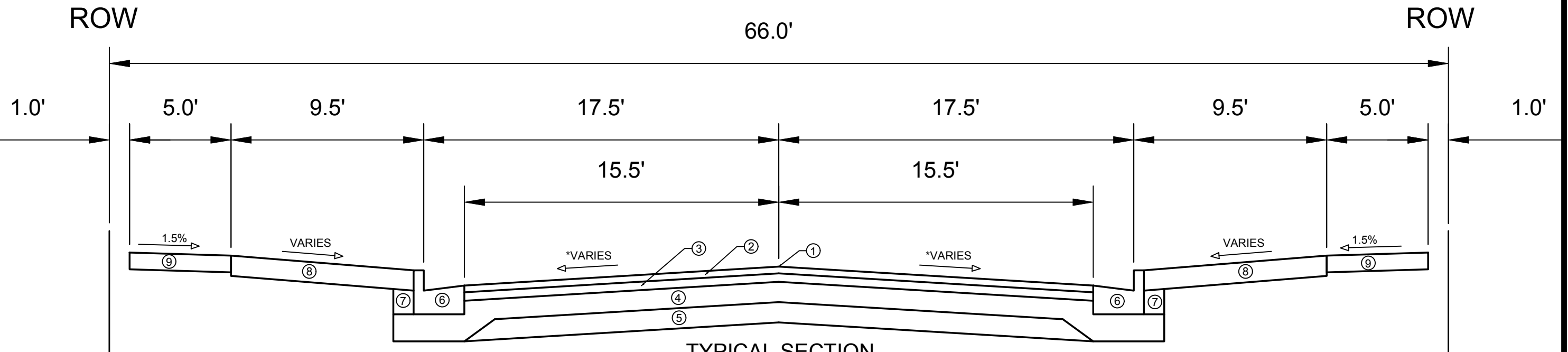


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 D-1

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TYPICAL SECTION
RETHKE AVENUE
STA 14+98 TO STA 15+51



TYPICAL SECTION
RETHKE AVENUE
STA 14+71 TO STA 14+97

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ③ 2.5" HMA PAVEMENT- TYPE 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A'
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ 5" CONCRETE SIDEWALK
- ⑩ EXISTING CURB AND GUTTER TO REMAIN
- ⑪ EXISTING FILL TO REMAIN
- ⑫ EXISTING TERRACE TO REMAIN
- ⑬ EXISTING CONCRETE SIDEWALK TO REMAIN
- ⑭ EXISTING BASE COURSE TO REMAIN

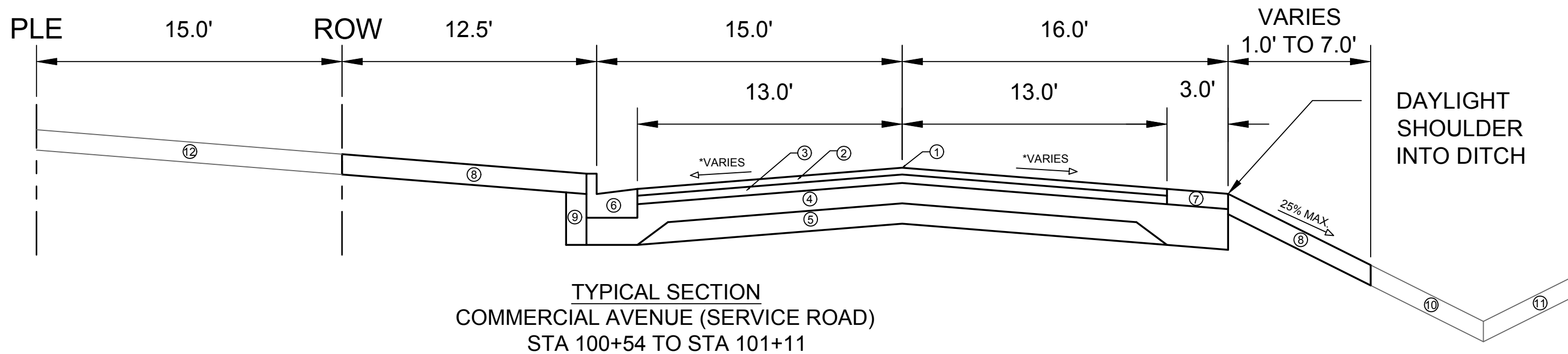
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* SEE X-SHEETS FOR CROSS SLOPES

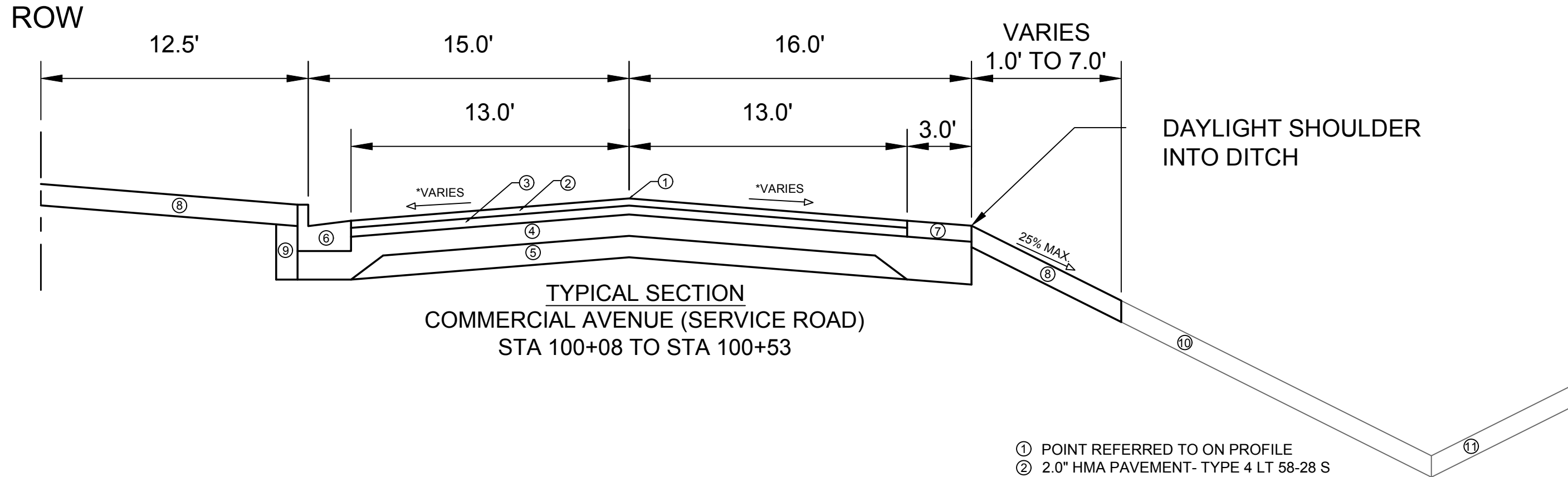
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MADISON, WI
RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
CONTRACT NO: 8513
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TYPICAL SECTION
 COMMERCIAL AVENUE (SERVICE ROAD)
 STA 100+54 TO STA 101+11



TYPICAL SECTION
 COMMERCIAL AVENUE (SERVICE ROAD)
 STA 100+08 TO STA 100+53

SPECIAL NOTES:

* SEE X-SHEETS FOR CROSS SLOPES

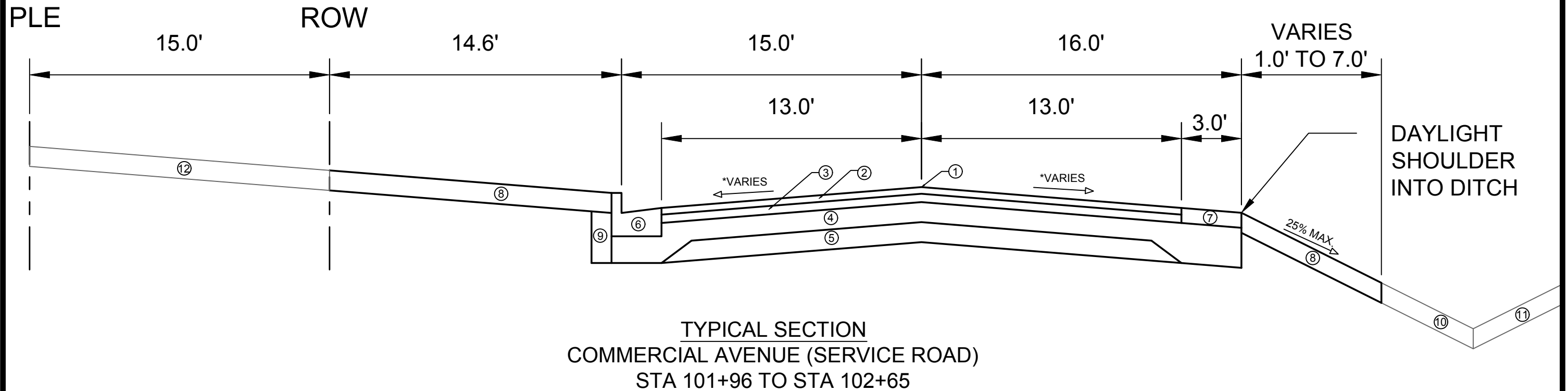
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- ③ 2.5" HMA PAVEMENT- TYPE 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A'
- ⑦ 4.5" SHOULDER BASE AGGREGATE DENSE 3/4-INCH
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑩ EXISTING DITCH FORESLOPE
- ⑪ EXISTING DITCH BACKSLOPE
- ⑫ EXISTING ASPHALT PAVEMENT

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12693
 MADISON, WI
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
 CONTRACT NO.: 8513
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 D-5



TYPICAL SECTION
 COMMERCIAL AVENUE (SERVICE ROAD)
 STA 101+96 TO STA 102+65

SPECIAL NOTES:

* SEE X-SHEETS FOR CROSS SLOPES

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ③ 2.5" HMA PAVEMENT- TYPE 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A'
- ⑦ 4.5" SHOULDER BASE AGGREGATE DENSE 3/4-INCH
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑩ EXISTING DITCH FORESLOPE
- ⑪ EXISTING DITCH BACKSLOPE
- ⑫ EXISTING ASPHALT PAVEMENT

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12693
 MADISON, WI
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
 CONTRACT NO: 8513
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0810-323-0601-2
ALABASTER HOLDINGS LLC
3116 COMMERCIAL AVENUE

0810-324-3016-8
SPEIGHT PROPERTIES
3212 COMMERCIAL AVENUE

0810-324-3034-0
ALPHA REAL ESTATE LLC
711 RETHKE AVENUE

0810-324-3035-8
COUNTY OF DANE
RETHKE AVE CONDO
715 RETHKE AVENUE
UNIT CDM

-  CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
-  STREET ENTRANCE BERM (15' L X FULL STREET WIDTH)
-  RIGID FRAME INLET PROTECTION
-  CLEAR STONE BERM (DITCH CHECK W/ SUMP)

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

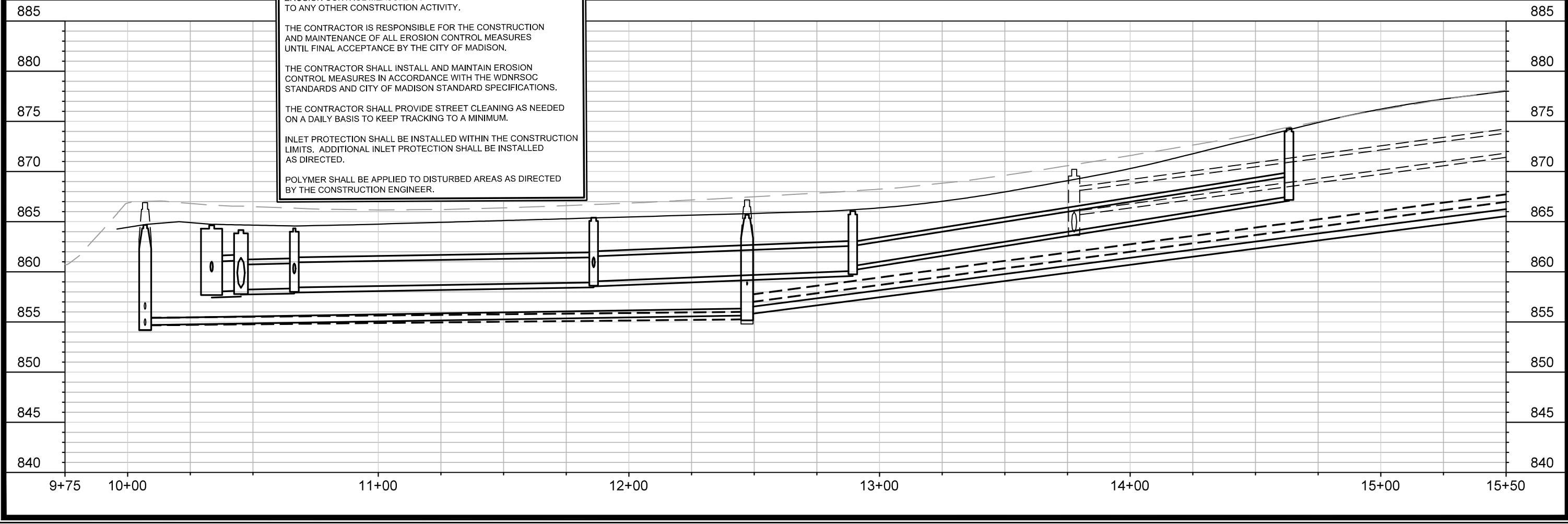
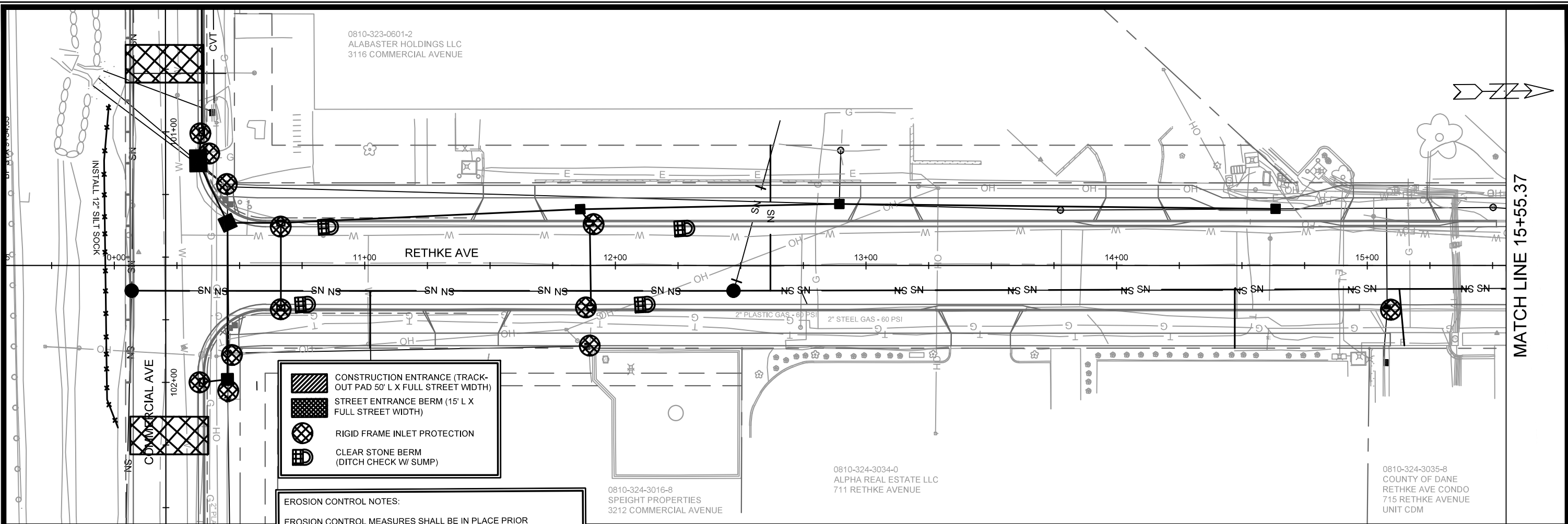
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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.



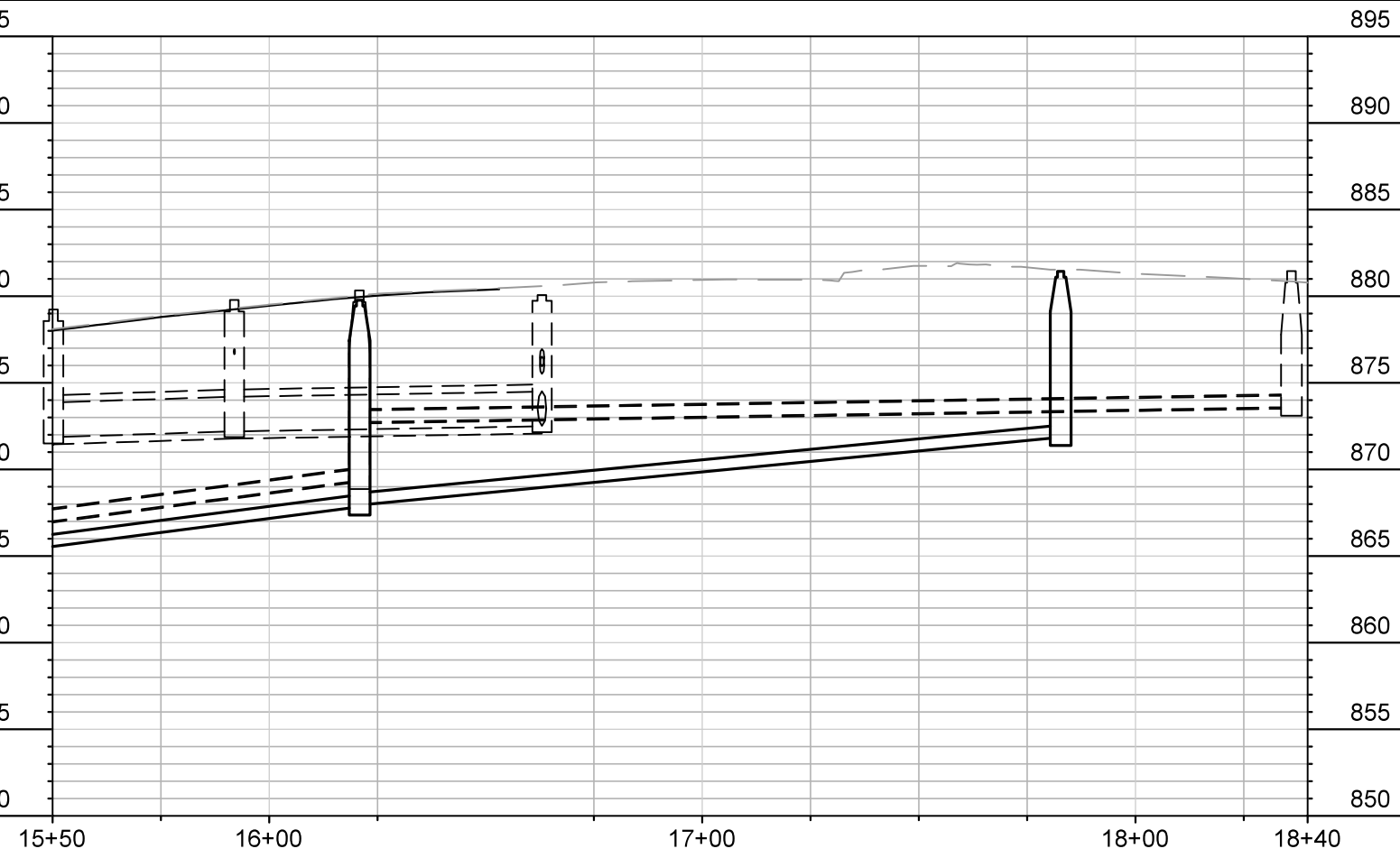
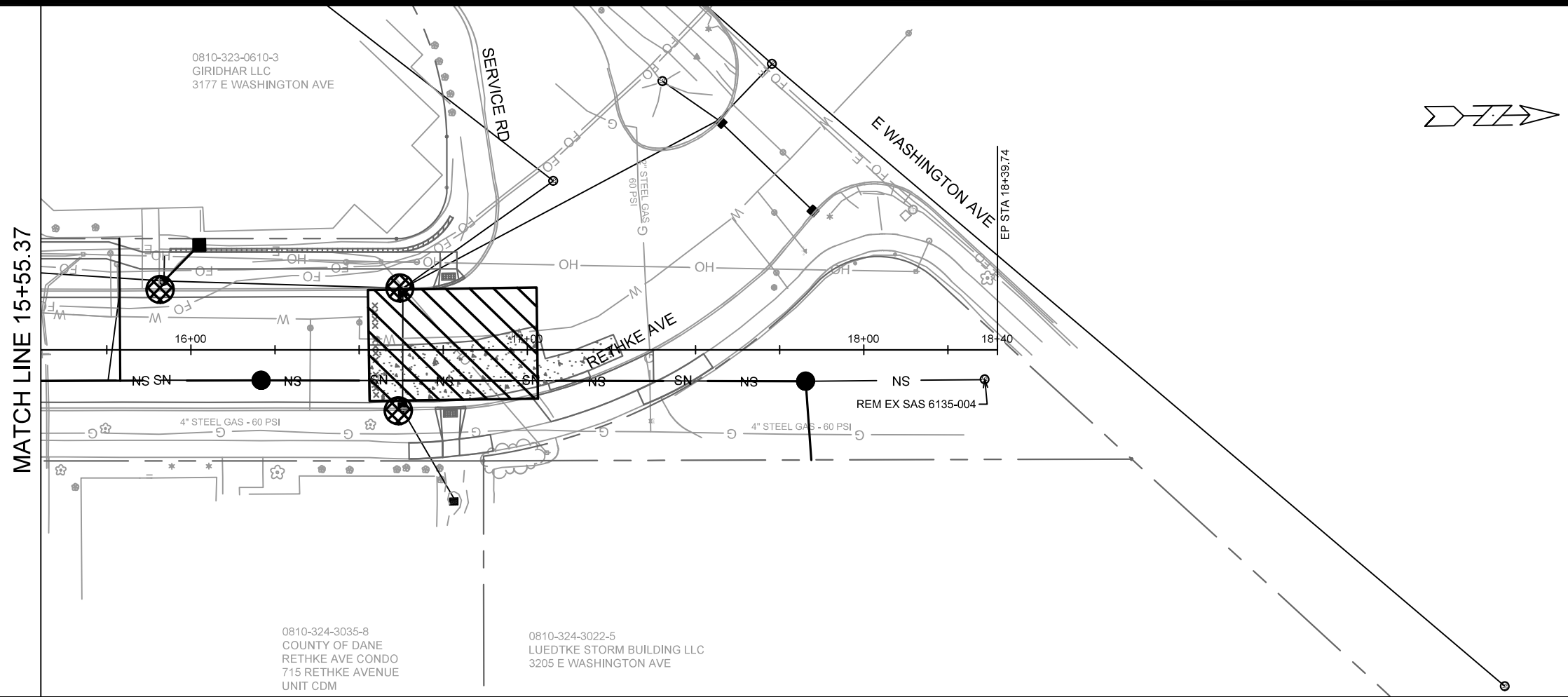
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RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
CONTRACT NO: 8513
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12693
EC-1



	CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
	STREET ENTRANCE BERM (15' L X FULL STREET WIDTH)
	RIGID FRAME INLET PROTECTION
	CLEAR STONE BERM (DITCH CHECK W/ SUMP)

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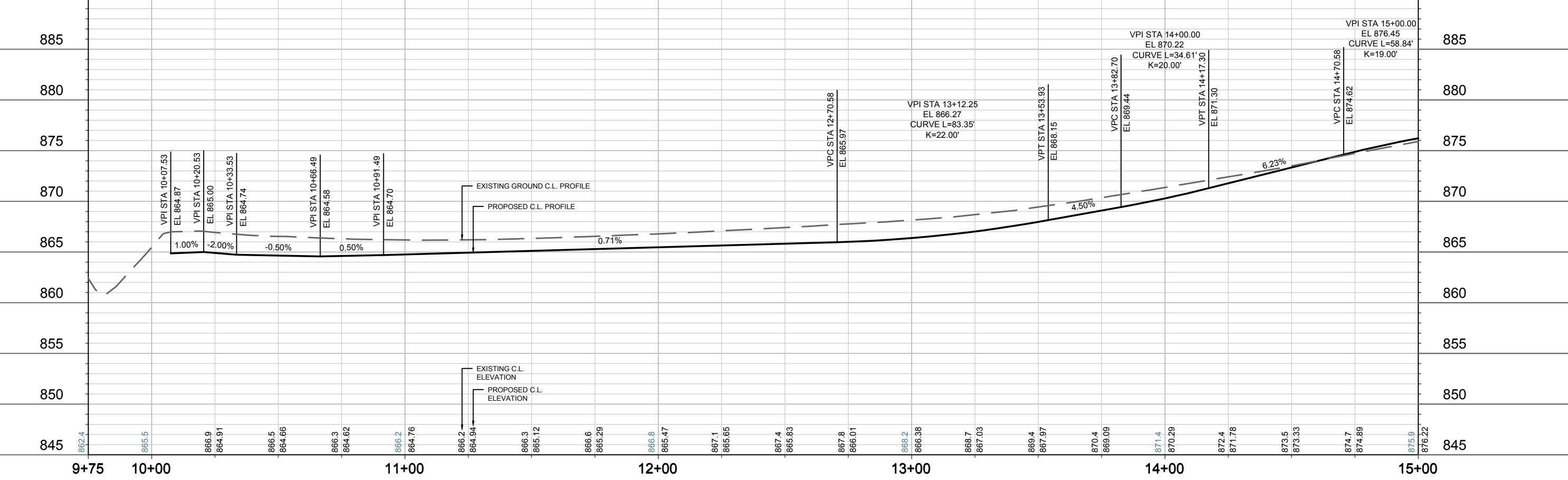
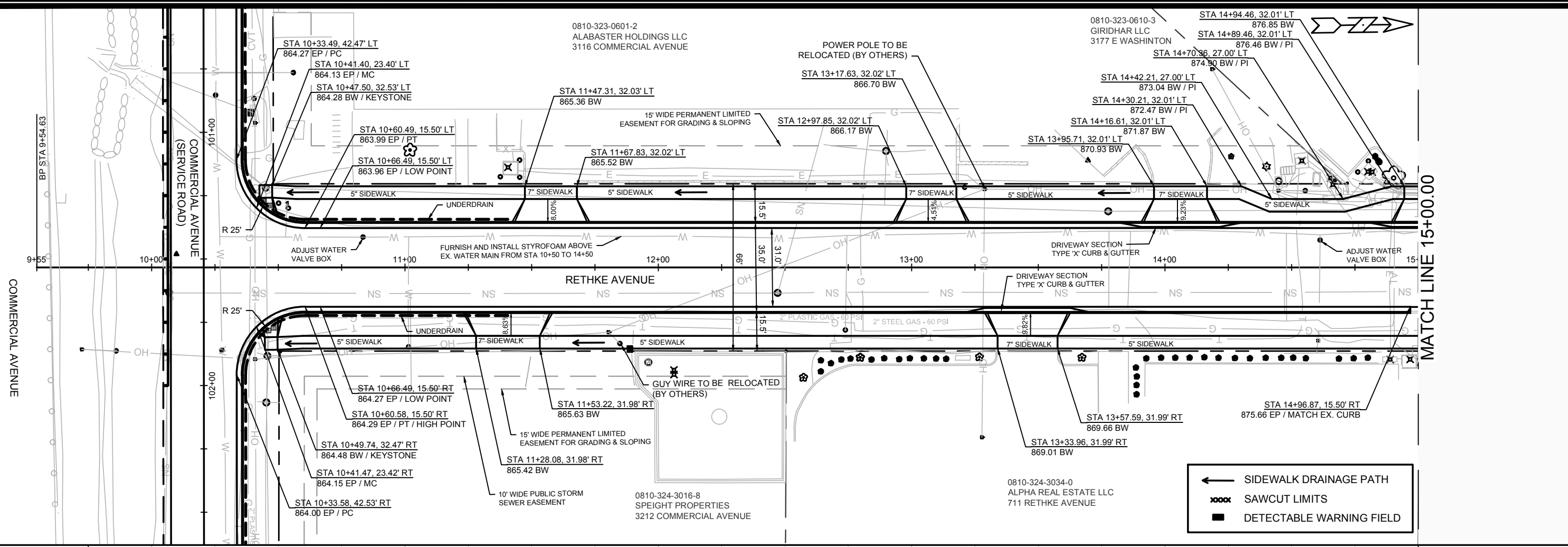
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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12693
 MADISON, WI
 CONTRACT NO: 8513

EROSION CONTROL - RETHKE AVE
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
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12693
 EC-2

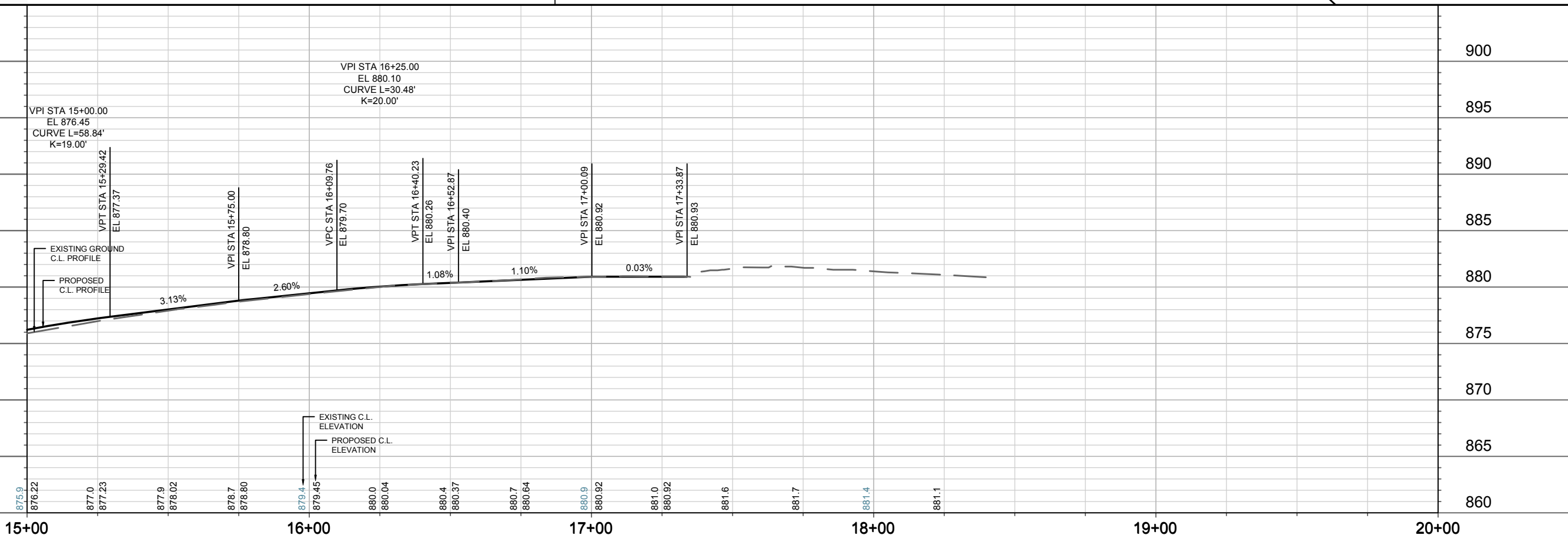
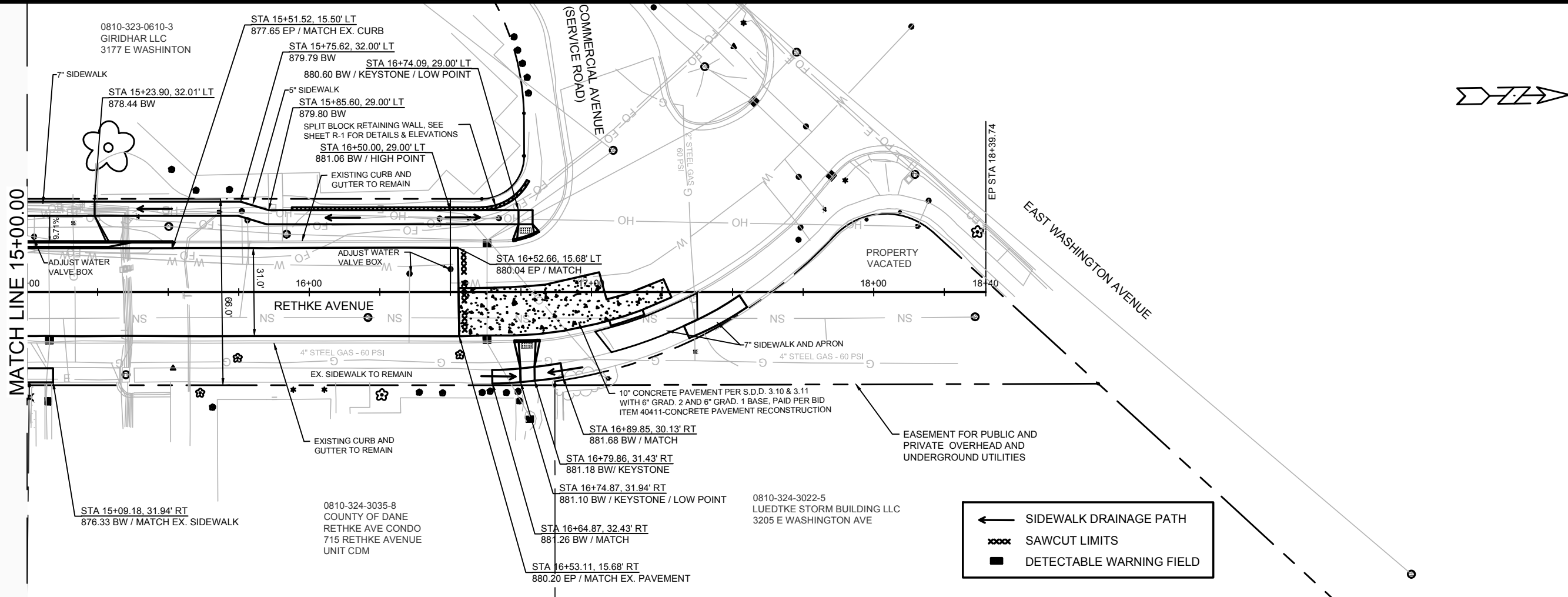


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CONTRACT NO: 8513			P-1

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MADISON, WI
RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
CONTRACT NO: 8513
P-1

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12693
P-1

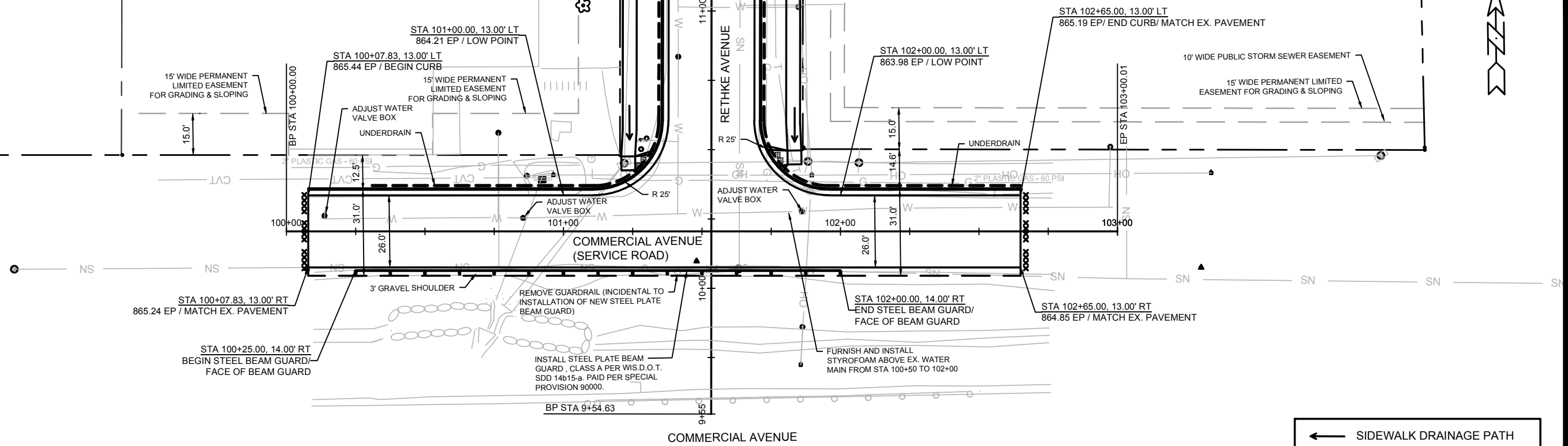


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PLAN & PROFILE - RETHKE AVENUE		CONTRACT NO.:	
RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020		12693	
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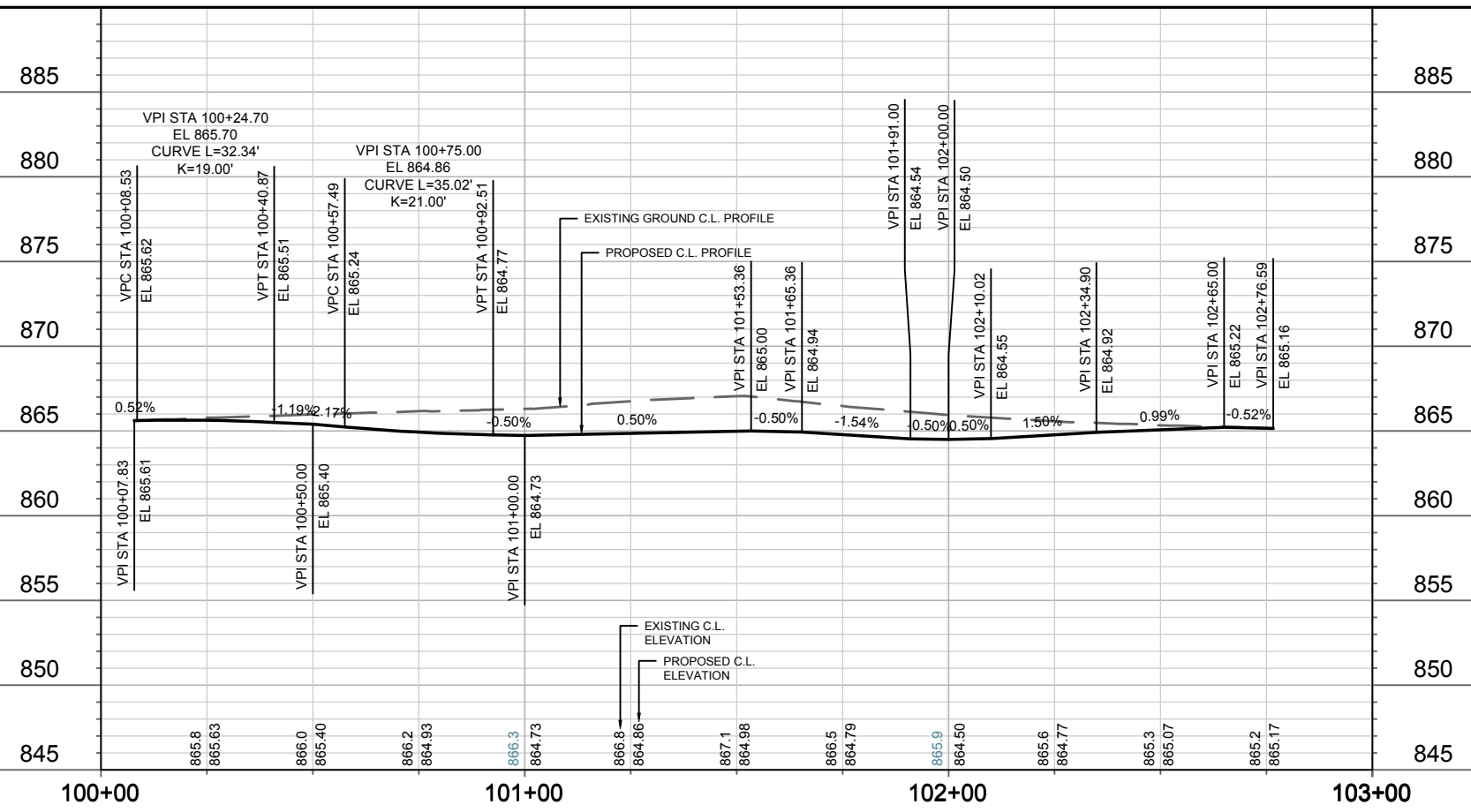
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SFTF HOLDINGS LLC
3106 COMMERCIAL AVENUE

0810-323-0601-2
ALABASTER HOLDINGS LLC
3116 COMMERCIAL AVENUE

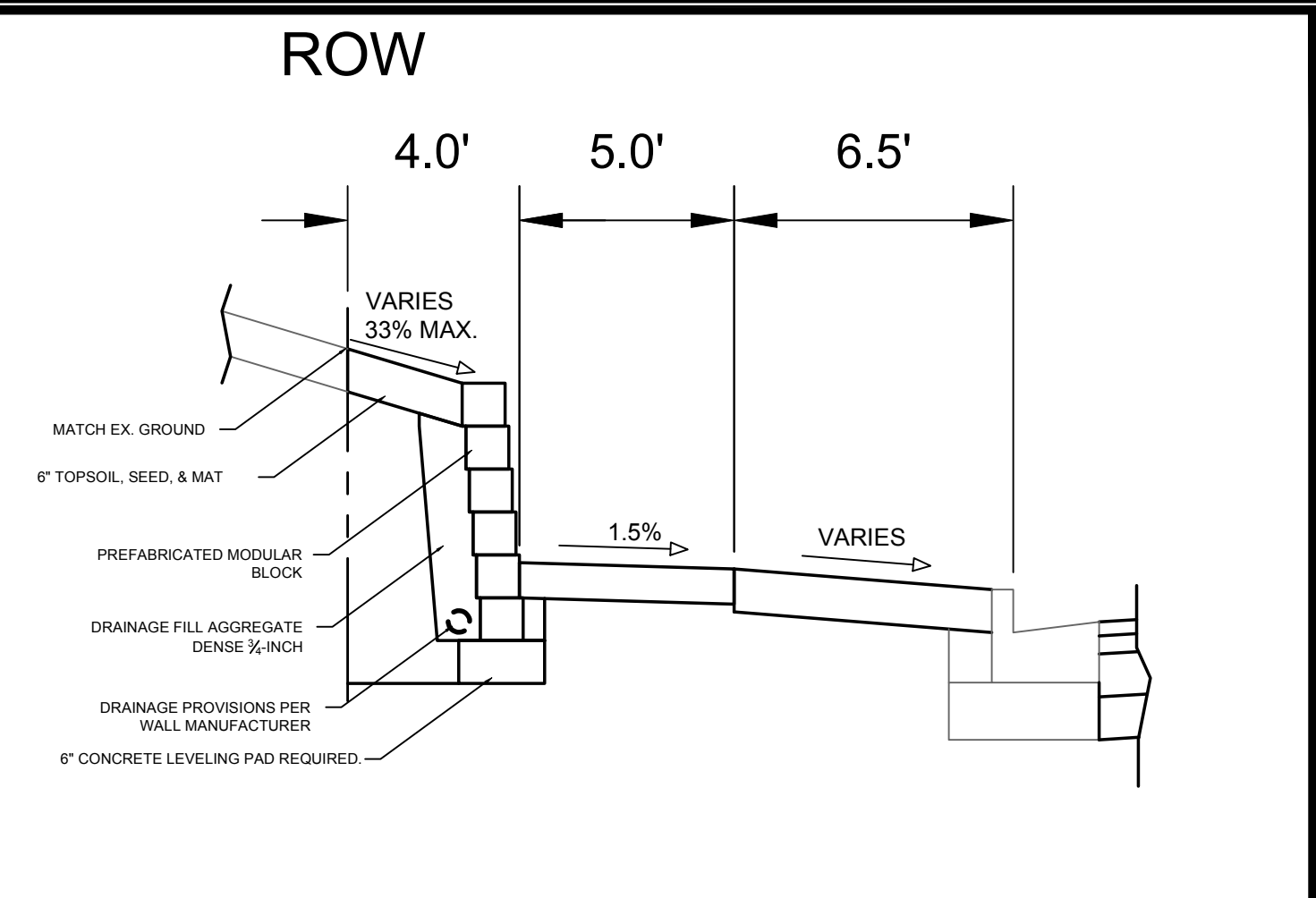
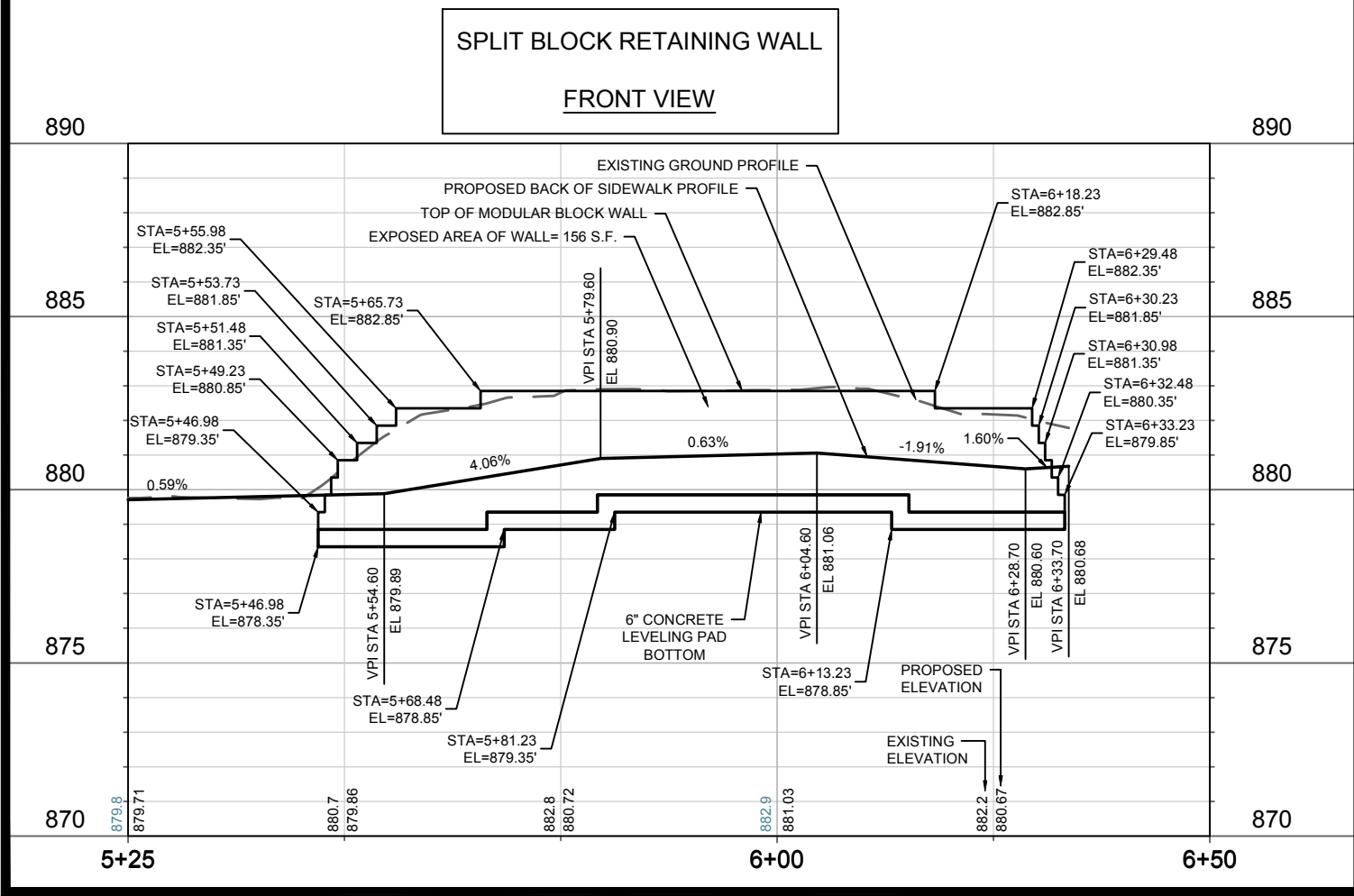
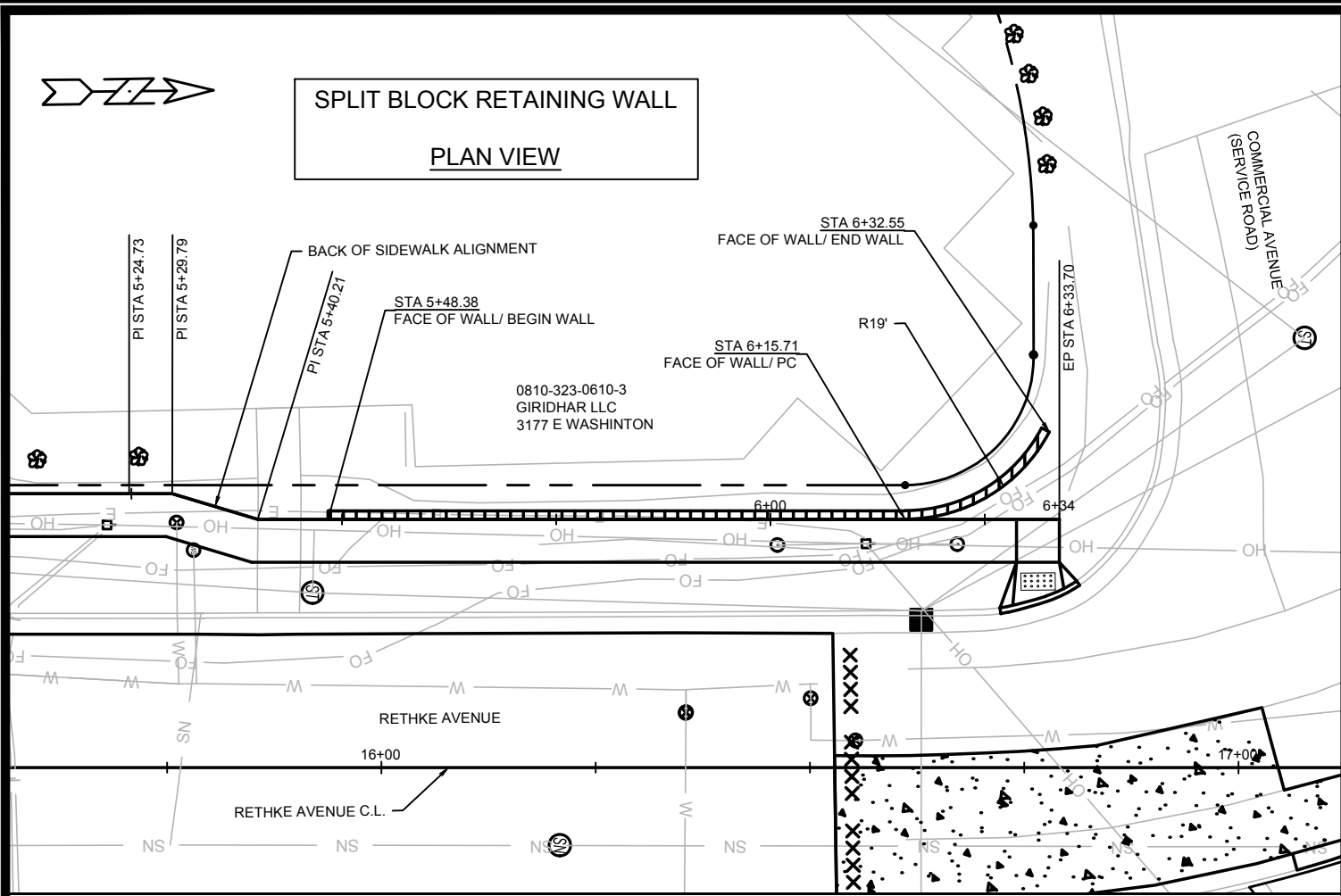
0810-324-3016-8
SPEIGHT PROPERTIES
3212 COMMERCIAL AVENUE



SIDEWALK DRAINAGE PATH
 SAWCUT LIMITS
 DETECTABLE WARNING FIELD



12693
 MADISON, WI
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
 CONTRACT NO: 8513
 P-3
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 P-3



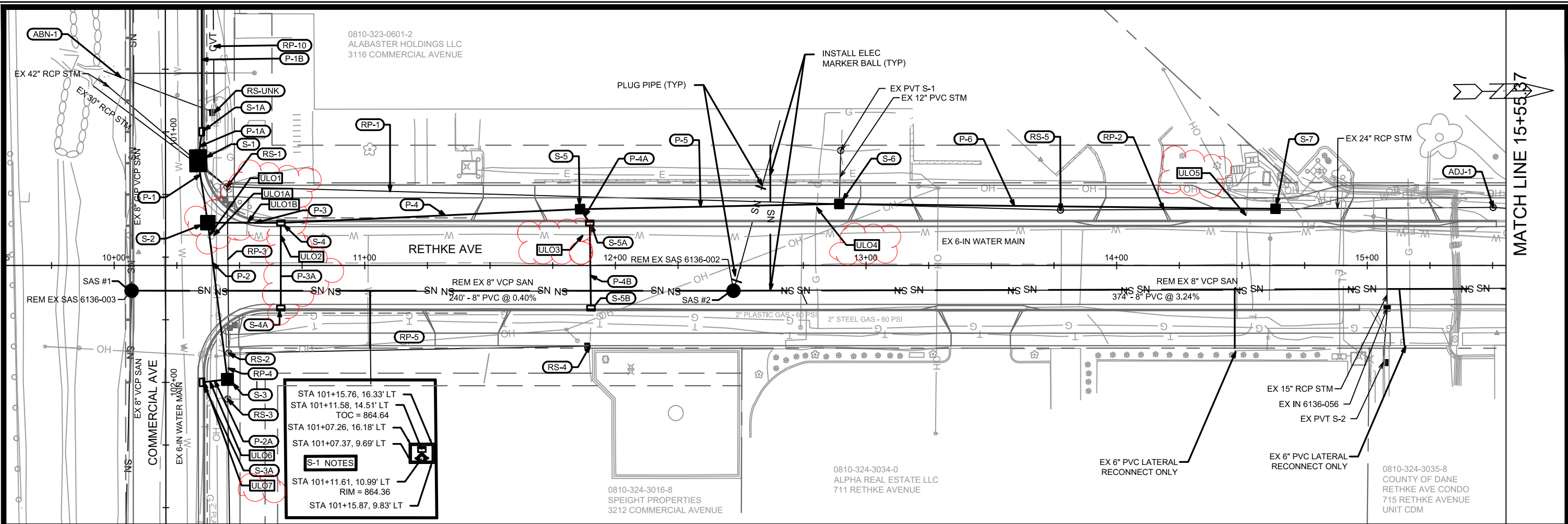
NOTES:

1. RETAINING WALL IS TO BE DESIGNED USING THE GRADES PROVIDED ON THIS DETAIL. STEP LOCATIONS AND ELEVATIONS OF LEVELING PAD MAY BE ADJUSTED TO MEET SPECIFIC WALL DESIGN AND MODULAR BLOCK DIMENSIONS.
2. WALL PLANS AND DETAILS ON THESE DRAWINGS ARE INTENDED TO INDICATE THE LOCATION, HEIGHT AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENT AND DETAILS.
3. SEE TYPICAL SECTIONS FOR INFORMATION ON THE SIDEWALK, TERRACE AND PAVEMENT.

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12693	MARK	DESIGNED BY: FBEG	DATE: 5/14/2020 8:19 AM
12693	SCALE	#####	R-1

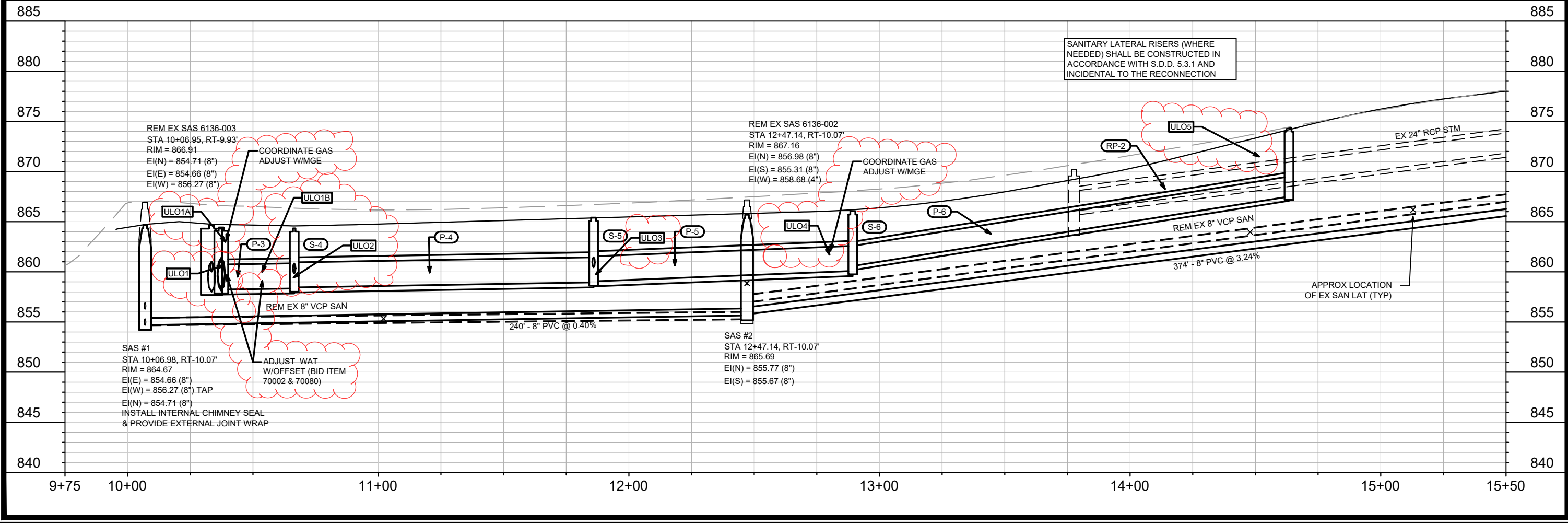
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RETAINING WALL DETAIL
RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
MADISON, WI
CONTRACT NO.: 8513
M:\DESIGN\Projects\12693\CAD\Plan Sheets\12693_R-Sheets.dwg

12693
R-1



S-1 NOTES

STA 101+15.76, 16.33' LT
STA 101+11.58, 14.51' LT
TOC = 864.64
STA 101+07.26, 16.18' LT
STA 101+07.37, 9.69' LT
STA 101+11.61, 10.99' LT
RIM = 864.36
STA 101+15.87, 9.83' LT



REVISION 2	7/29/20	DAO	U-1
REVISION 1	7/30/20	DAO	
DATE			
BY			
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12693			

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MADISON, WI

RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020

CONTRACT NO: 8513

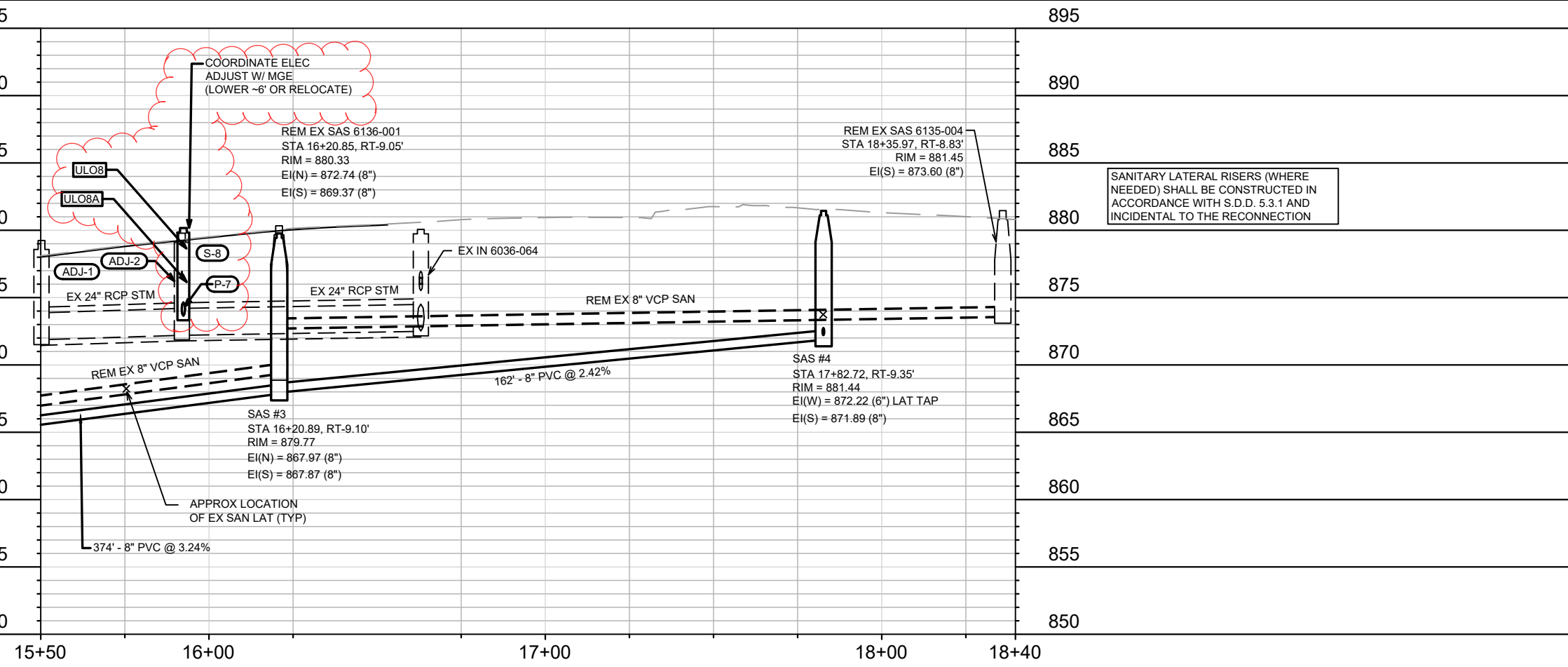
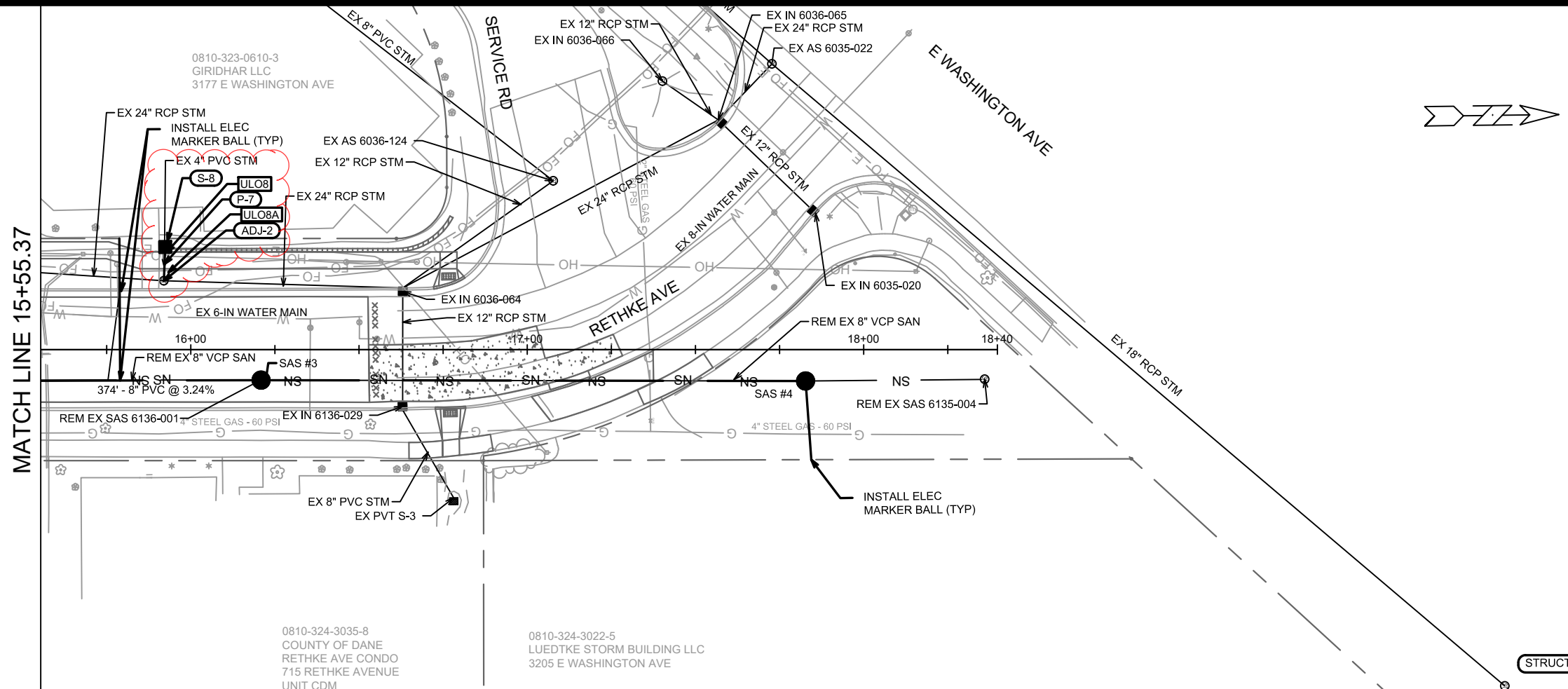
UTILITY PLAN & PROFILE - RETHKE AVE

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CITY OF MADISON WISCONSIN

12693

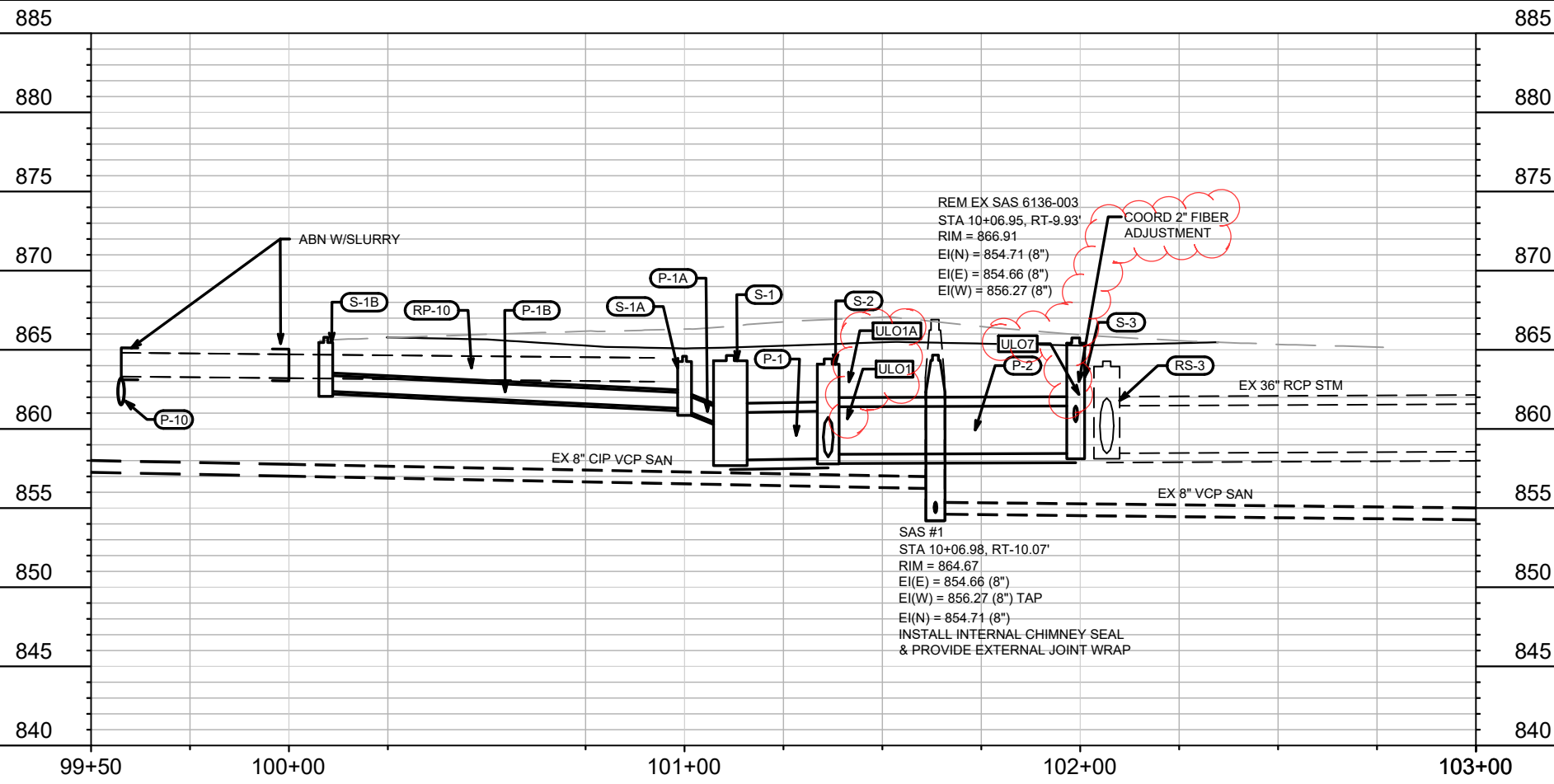
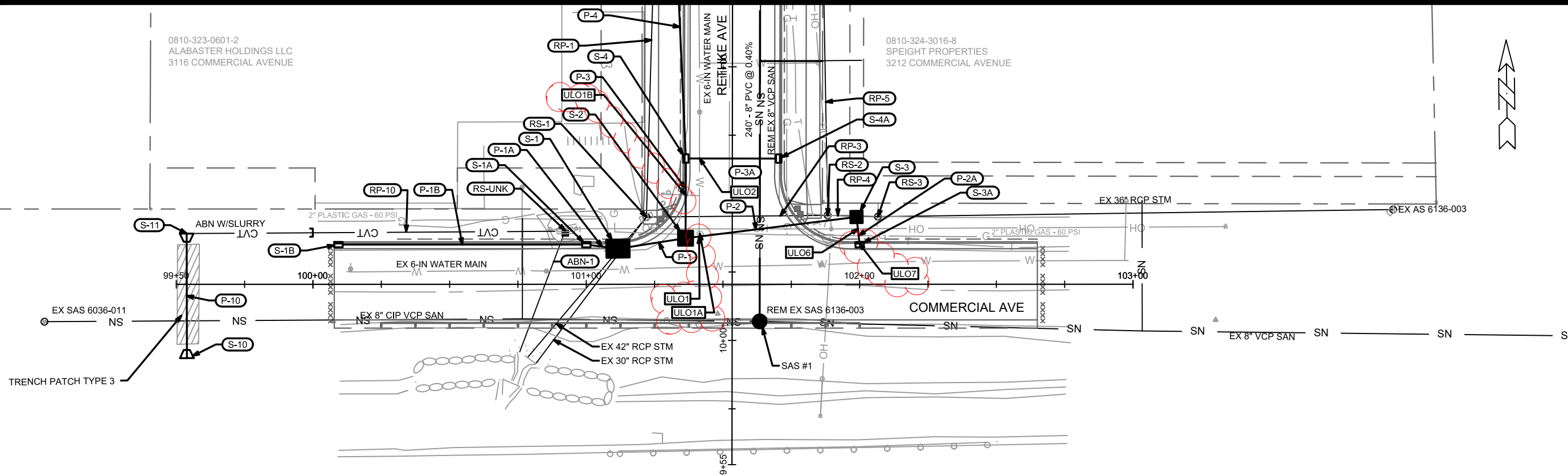
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REVISION 1	7/30		
REVISION			
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12693
 MADISON, WI
 RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020
 CONTRACT NO.: 8513

UTILITY PLAN & PROFILE - RETHKE AVE
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SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

REM EX SAS 6136-003
 STA 10+06.95, RT-9.93'
 RIM = 866.91
 EI(N) = 854.71 (8")
 EI(E) = 854.66 (8")
 EI(W) = 856.27 (8")

COORD 2" FIBER ADJUSTMENT

EX 36" RCP STM

EX 8" VCP SAN

SAS #1
 STA 10+06.98, RT-10.07'
 RIM = 864.67
 EI(E) = 854.66 (8")
 EI(W) = 856.27 (8") TAP
 EI(N) = 854.71 (8")
 INSTALL INTERNAL CHIMNEY SEAL & PROVIDE EXTERNAL JOINT WRAP

12693	12693	U-3
MADISON, WI	REVISION 2 7/29/20	DAO
CONTRACT NO: 8513	REVISION 1 7/30	DAO
	REVISION DATE	BY
	Designed By: DAO	Date: 7/29/2020 10:49 AM
	Scale: 1" = 40'	

UTILITY PLAN & PROFILE - RETHKE AVE

RETHKE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2020

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CITY OF MADISON WISCONSIN

12963

U-3

SANITARY SEWER SCHEDULE

RETHKE AVE RECON ASSM'T DIST-2020

SHEET NO.

PROJECT NO. 12693

U-4

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
RETHKE AVE						
SAS #1	10+06.98	RT-10.07	864.67	854.71	9.96	(1)(2)
SAS #2	12+47.14	RT-10.07	865.69	855.67	10.02	
SAS #3	16+20.89	RT-9.10	879.77	867.87	11.90	
SAS #4	17+82.72	RT-9.35	881.44	871.89	9.55	

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
RETHKE AVE						
SAS 6136-003	10+06.95	RT-9.93	866.91	854.66	12.25	
SAS 6136-002	12+47.14	RT-10.07	867.16	855.31	11.85	
SAS 6136-001	16+20.85	RT-9.05	880.33	869.37	10.96	
SAS 6135-004	18+35.97	RT-8.83	881.45	873.80	7.65	

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
RETHKE AVE								
SAS #1	SAS #2	854.71	855.67	240	0.40%	8"	SDR-35	
SAS #2	SAS #3	855.77	867.87	374	3.24%	8"	SDR-35	
SAS #3	SAS #4	867.97	871.89	162	2.42%	8"	SDR-35	

SANITARY PIPE REMOVALS

REMOVE FROM (DNSTM)	REMOVE TO (UPSTM)	LGTH (FT)	PAY AMOUNT (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
RETHKE AVE							
SAS 6136-003	SAS 6136-002	240	0	VCP	8"	N	
SAS 6136-002	SAS 6136-001	374	0	VCP	8"	N	
SAS 6136-001	SAS 6135-004	215	54	VCP	8"	Y	

NOTES:

- (1) INSTALL INTERNAL CHIMNEY SEAL
- (2) PROVIDE EXTERNAL JOINT WRAP

STORM SEWER SCHEDULE

* REV 7/3/2020 DAO
REV 7/29/20 DAO

RETHKE AVE RECON ASSM'T DIST-2020	SHEET NO.
PROJECT NO. 12693	U-5
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
COMMERCIAL AVE							
S-1	101+11.57	LT-13.01	6X8 SAS	864.64	858.02	6.62	(1)(2); FP
S-1A	101+00.00	LT-14.50	H INLET	864.59	861.19	3.40	LP; W/3067-7004-VB
S-1B	100+09.33	LT-14.50	H INLET	865.79	862.39	3.40	W/3067-7004-V
* S-2	101+36.30	LT-16.84	5X5 SAS	864.43	858.13	6.30	FP; W/1550-HV
S-3	101+98.85	LT-24.61	4X4 SAS	865.75	858.45	7.30	(1)(3)(4); W/1550-0054
S-3A	102+00.00	LT-14.50	H INLET	864.36	860.96	3.40	LP; W/3067-7004-VB
S-10	99+53.90	RT-26.98	18" AE	-	859.14	-	
S-11	99+53.81	LT-18.53	18" AE	-	863.32	-	
RETHKE AVE							
# S-4	10+66.49	LT-17.00	3X3 SAS	864.33	858.34	5.99	LP; W/3067-7004-VB
S-4A	10+66.49	RT-17.00	H INLET	864.64	861.55	3.09	LP; W/3067-7004-VB
S-5	11+85.93	LT-22.49	3X3 SAS	865.41	858.95	6.46	W/1550-0054
S-5A	11+89.77	LT-17.00	H INLET	865.31	860.79	4.52	W/3067-7004-V
S-5B	11+90.24	RT-17.00	H INLET	865.47	861.23	4.24	W/3067-7004-V
S-6	12+89.34	LT-24.57	3X3 SAS	866.05	860.08	5.97	W/1550-0054; (5)
S-7	14+63.39	LT-22.64	3X3 SAS	874.32	867.50	6.82	FP; W/1550-0054; (6)
* S-8	15+92.40	LT-30.40	3X3 SAS	880.17	873.65	6.52	FP; W/1550-2578; (7)

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
COMMERCIAL AVE										
* P-1	S-1	S-2	858.02	858.13	25	18	0.60%	36"	RCP	
P-1A	S-1	S-1A	860.02	861.19	12	6	18.66%	12"	RCP	
P-1B	S-1A	S-1B	861.29	862.39	91	88	1.25%	12"	RCP	
* P-2	S-2	S-3	858.40	858.45	63	59	0.09%	36"	RCP	
P-2A	S-3	S-3A	860.45	860.96	10	7	7.05%	12"	RCP	
P-10	S-10	S-11	859.14	863.32	46	45	9.30%	18"	RCP	
RETHKE AVE										
* P-3	S-2	S-4	858.23	858.34	29	25	0.44%	30"	RCP	
# P-3A	S-4	S-4A	861.34	861.55	34	32	0.67%	12"	RCP	NCM
P-4	S-4	S-5	858.44	858.95	120	117	0.44%	30"	RCP	
P-4A	S-5	S-5A	860.45	860.79	7	4	9.26%	12"	RCP	
P-4B	S-5A	S-5B	860.89	861.23	34	32	1.06%	12"	RCP	
P-5	S-5	S-6	859.05	860.08	103	100	1.03%	30"	RCP	
P-6	S-6	S-7	860.58	867.50	174	171	4.04%	24"	RCP	
* P-7	ADJ-2	S-8	873.20	873.65	10	9	5.24%	12"	RCP	TAP ADJ-2

STORM PIPE REMOVALS/ABANDONMENTS

REMOVE NO	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	PAY LGTH (FT)	NOTES
RP-1	RS-1	RS-5	333	24"	RCP	Y	122	
RP-2	RS-5	S-7	86	24"	RCP	N	0	
RP-3	RS-1	RS-2	66	42"	RCP	Y	66	
RP-4	RS-2	RS-3	18	42"	RCP	Y	18	
RP-5	RS-2	RS-4	144	18"	CMP	Y	144	
RP-10	RS-UNK	100+00, LT 18.82'	139	18"	CMP	Y	139	REM 91' & 48' TO BE ABN W/ SLURRY
ABN-1	100+75.33, RT 24.08'	RS-UNK	47	18"	CMP	Y	47	ABN W/ SLURRY

STORM STRUCTURE ADJUSTMENTS

ADJUST NO	STATION	LOCATION (OFFSET)	EX TOC ELEV	ADJUST ELEV	ADJUST DIFF	NOTES
RETHKE AVE						
ADJ-1	15+86.60	LT-20.44	879.78	878.86	-0.92	
ADJ-2	15+44.86	LT-23.19	879.24	879.36	0.12	

STORM SEWER ULOS

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RETHKE AVE				
# ULO1	10+38.20	LT-12.20	8" WAT	TOP @ 860.64
# ULO1A	10+39.00	LT-11.80	3" PL GAS	TOP @ 862.99
# ULO1B	10+53.90	LT-17.50	8" WAT	TOP @ 860.01
# ULO2	10+65.20	LT-12.60	8" WAT	TOP @ 859.79
# ULO3	11+86.90	LT-12.00	8" WAT	TOP @ 859.75
# ULO4	12+80.00	LT-23.40	2" PL GAS	TOP @ 861.71
# ULO5	14+51.50	LT-20.10	2" PVC FIBER	TOP @ 871.50
# ULO8	15+93.20	LT-29.90	4" STL ELEC	TOP @ 878.66
# ULO8A	15+93.30	LT-22.90	2" PVCTEL FIBER	TOP @ 876.17
COMMERCIAL AVE				
ULO6	101+99.42	LT-19.58	GAS	
# ULO7	101+99.7	LT-15.30	2" PVC FIBER	TOP @ 862.19

STORM STRUCTURE REMOVALS

STRUC NO	ID NO	STATION	LOCATION (OFFSET)	TYPE	NOTES
COMMERCIAL AVE					
RS-1	AS 6036-031	101+21.98	LT-24.58	5X7 CB	
RS-2	AS 6136-001	101+88.33	LT-25.18	3X3 SAS	
RS-3	AS 6136-002	102+06.70	LT-24.71	3X3 SAS	
RS-UNK	UNK INLET	100+92.31	LT-19.64	CONC. CHANNEL	
RETHKE AVE					
RS-4	IN 6136-004	11+84.41	RT-32.18	INLET	
RS-5	AS 6036-034	13+72.27	LT-22.10	3X3 SAS	

SPECIFIC NOTES:

- (80)
- PROVIDE ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS PER SDD 5.7.3
 - STA-OFFSET GIVEN @ CENTER; TOC GIVEN FOR CURB INLET; INSTALL TWO (2) CASTINGS; 3067-7004-V & 1550-0054
 - INSTALL 8" PVC STUB W/CAP @ EI = 861.72 (N)
 - EXTEND EX 36" RCP (7 FT) W/ COLLAR (PAID AS BID ITEM 50499)
 - RECONNECT EX 12" PVC PRIVATE STORM @ EI = 862.70 (W); PAID AS BID ITEM 50793
 - RECONNECT EX 24" RCP STORM @ EI = 868.98 (N)
 - OFFSET CASTING TO WEST OF RETAINING WALL

STANDARD NOTES:

-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.

* -KOR-N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO PRECAST INLETS. IN ADDITION, KOR-N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTIONS TO SAS STORM STRUCTURES. CONCRETE COLLARS OR KOR-N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

- 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

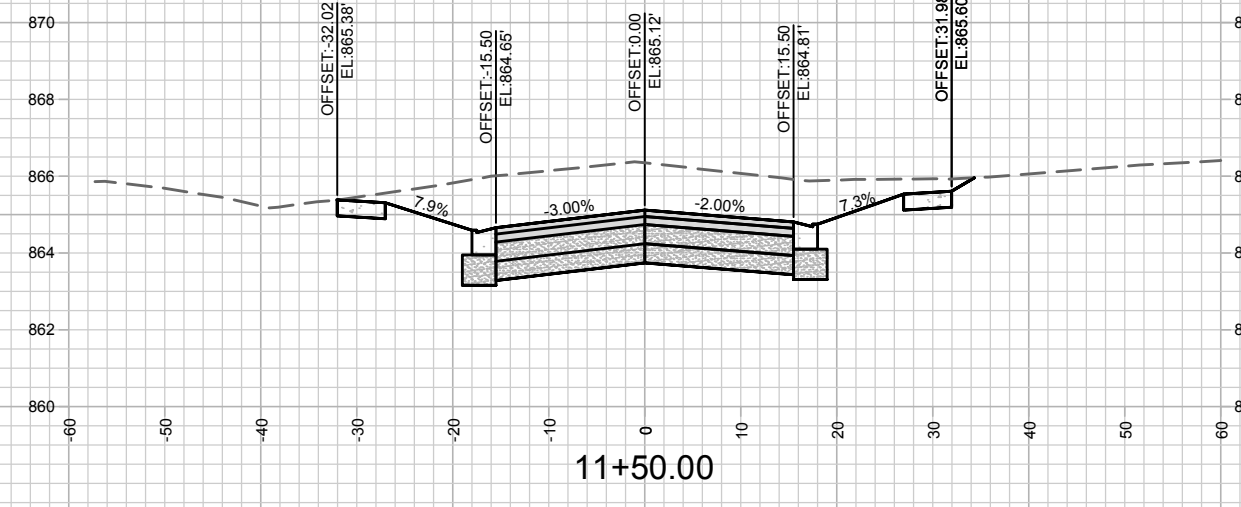
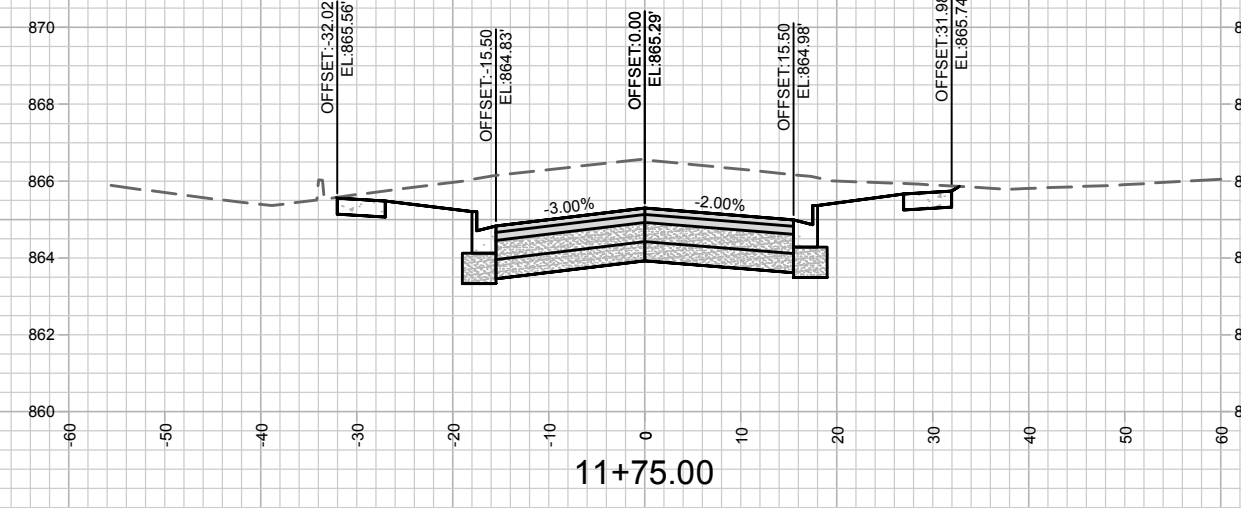
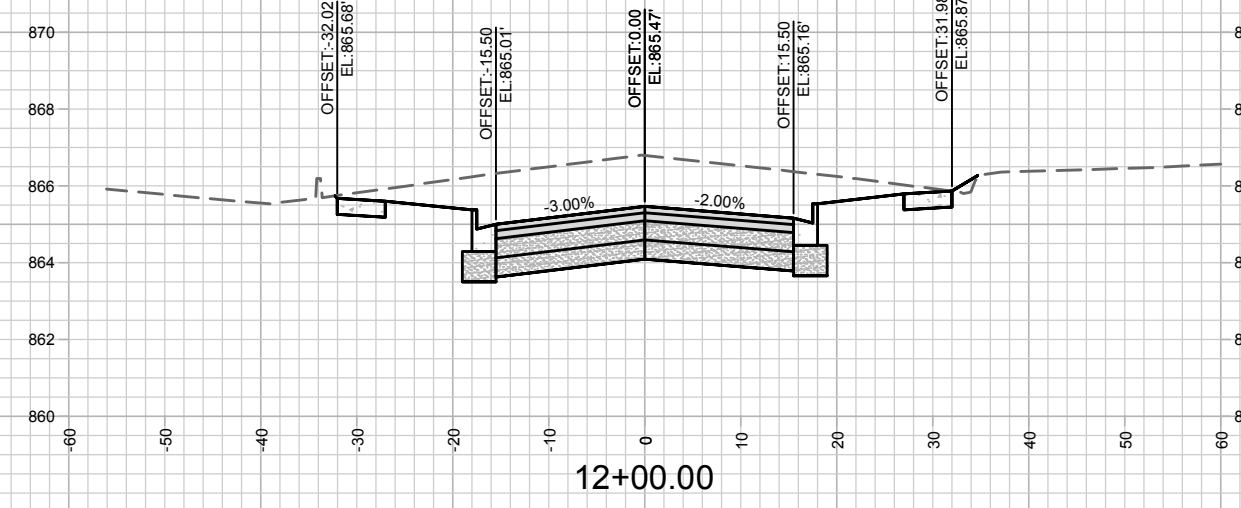
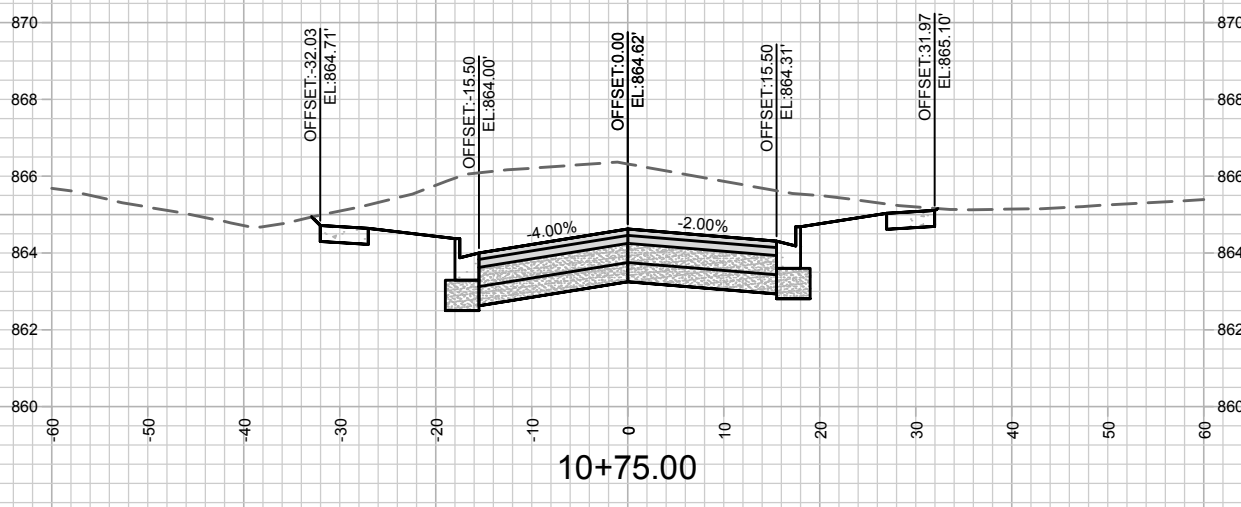
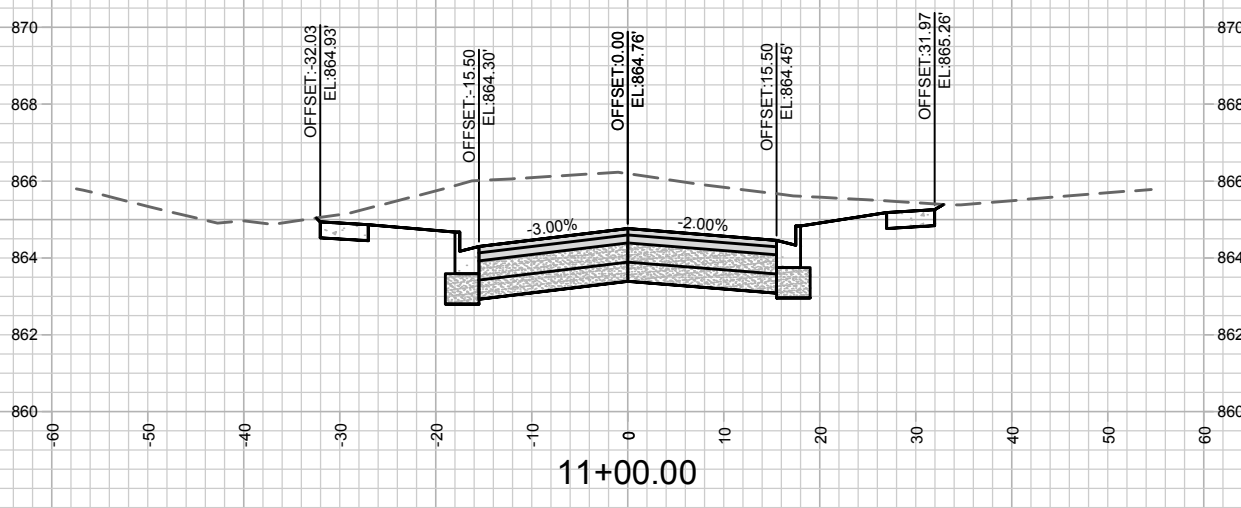
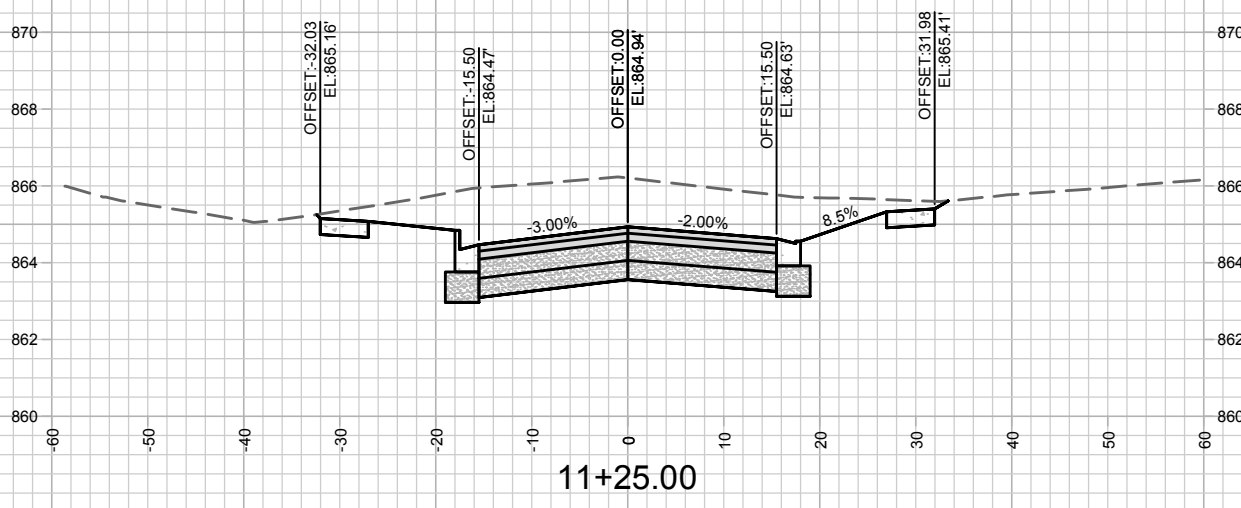
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.

- 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

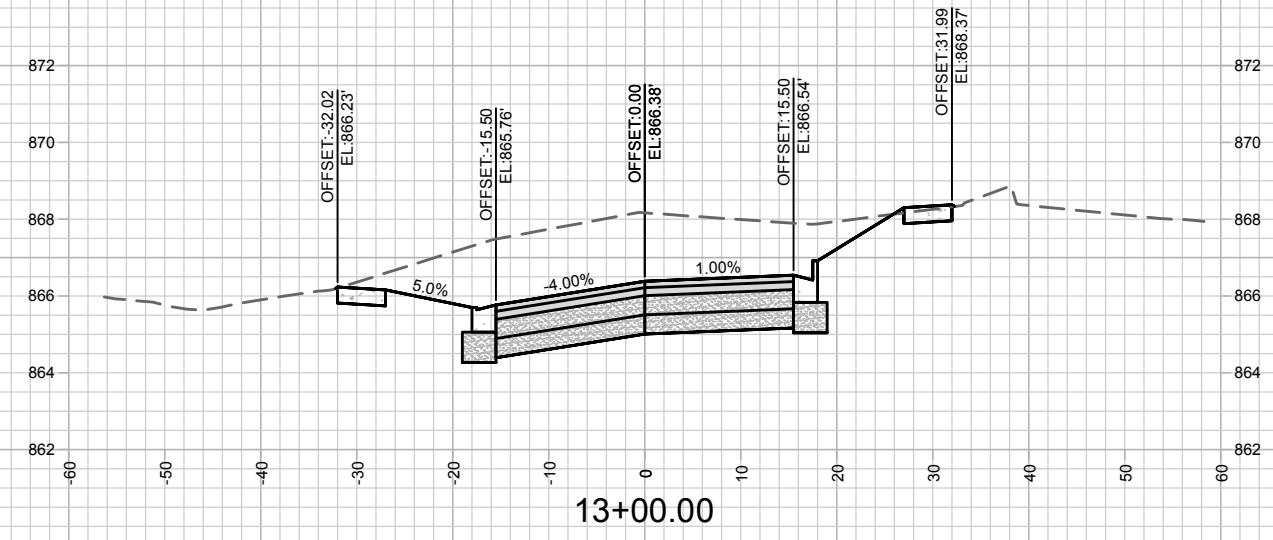
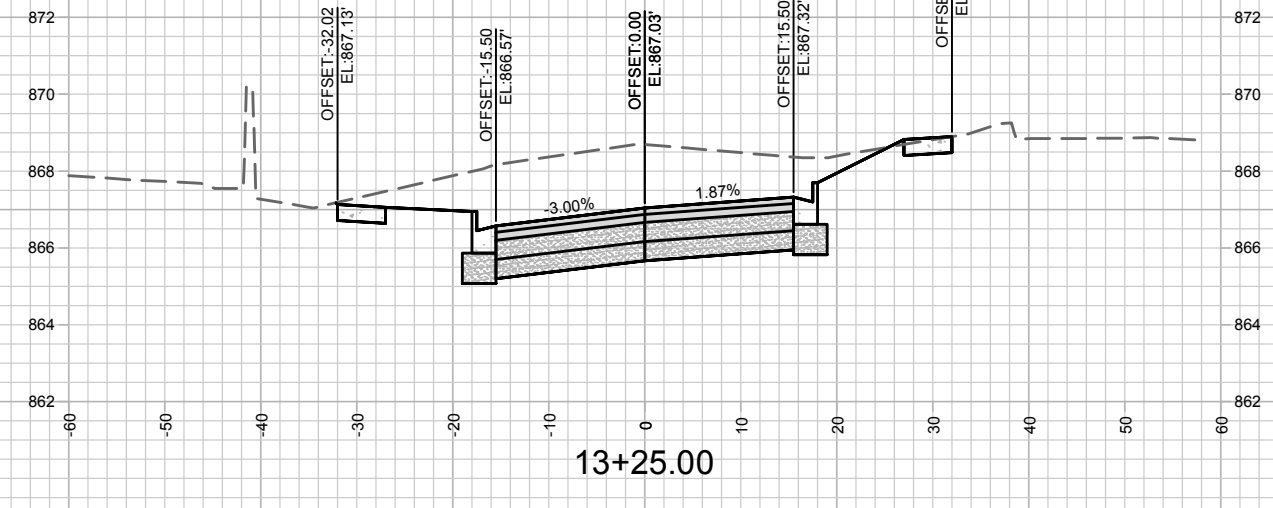
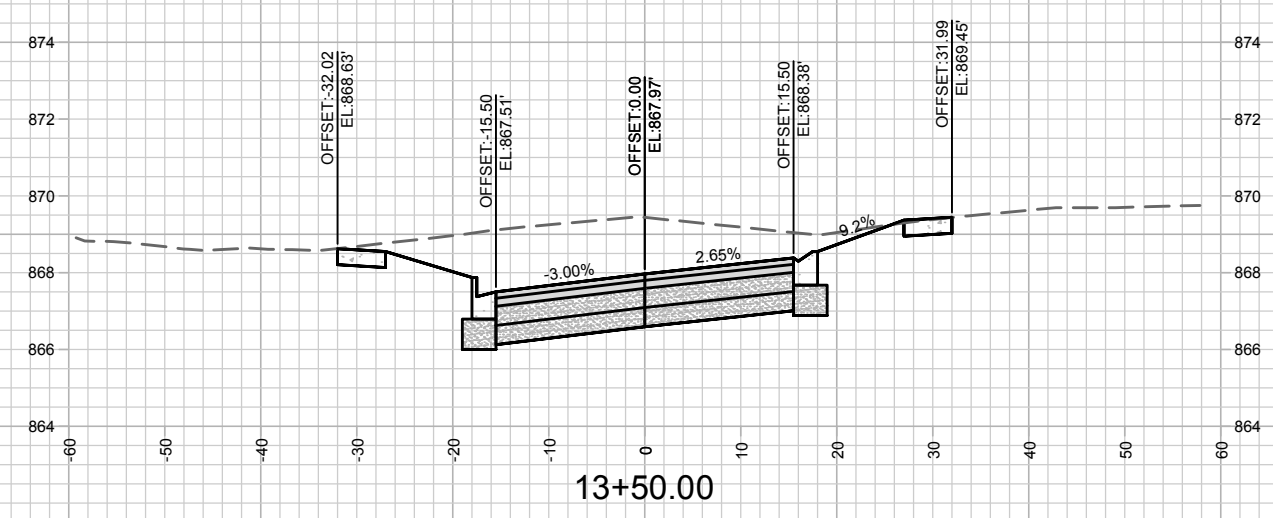
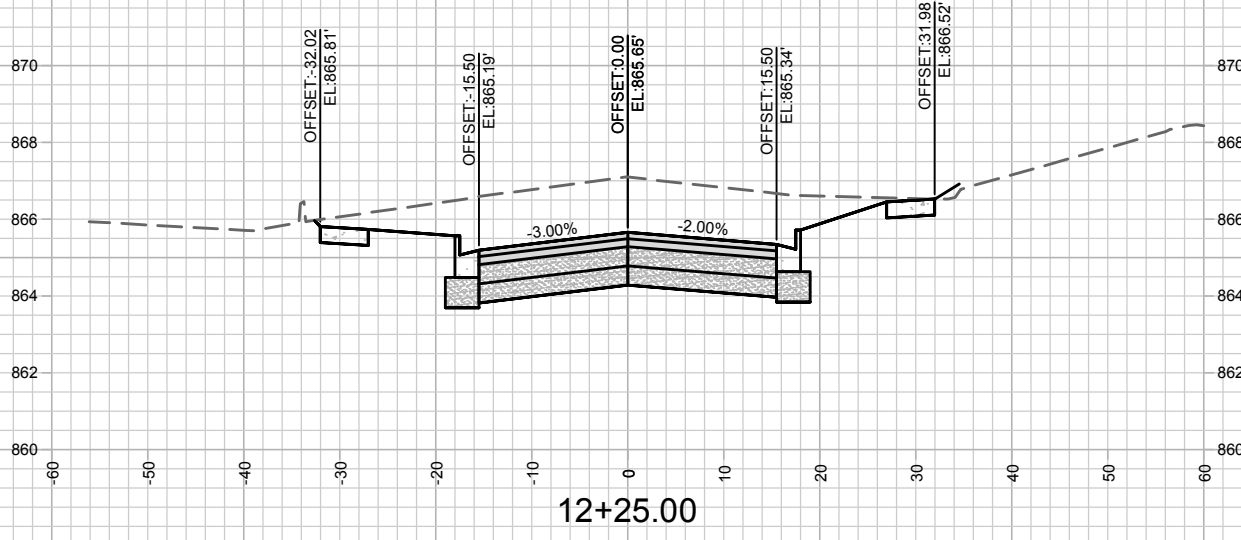
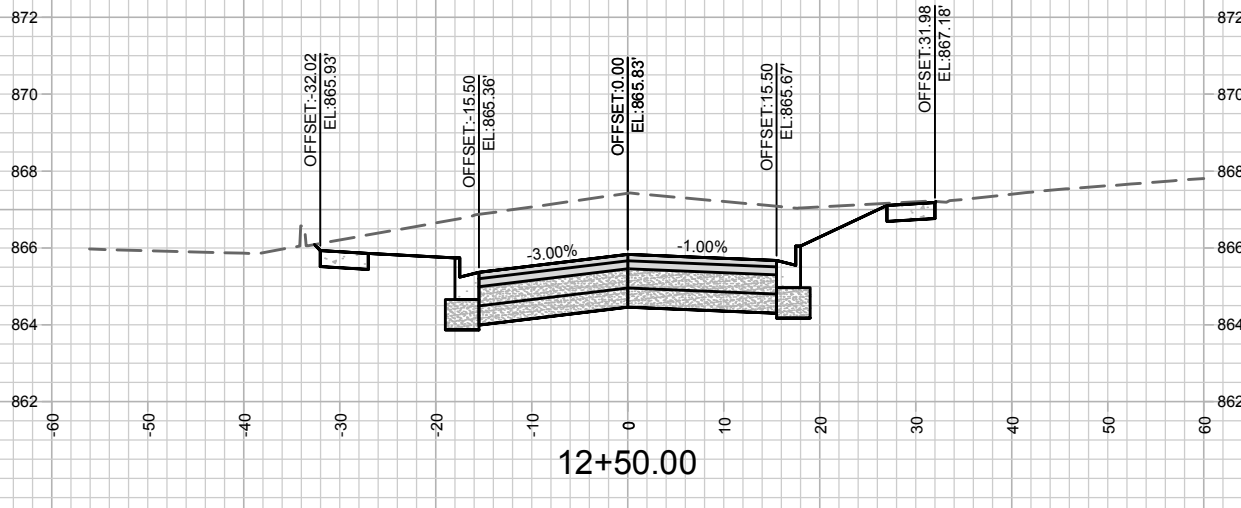
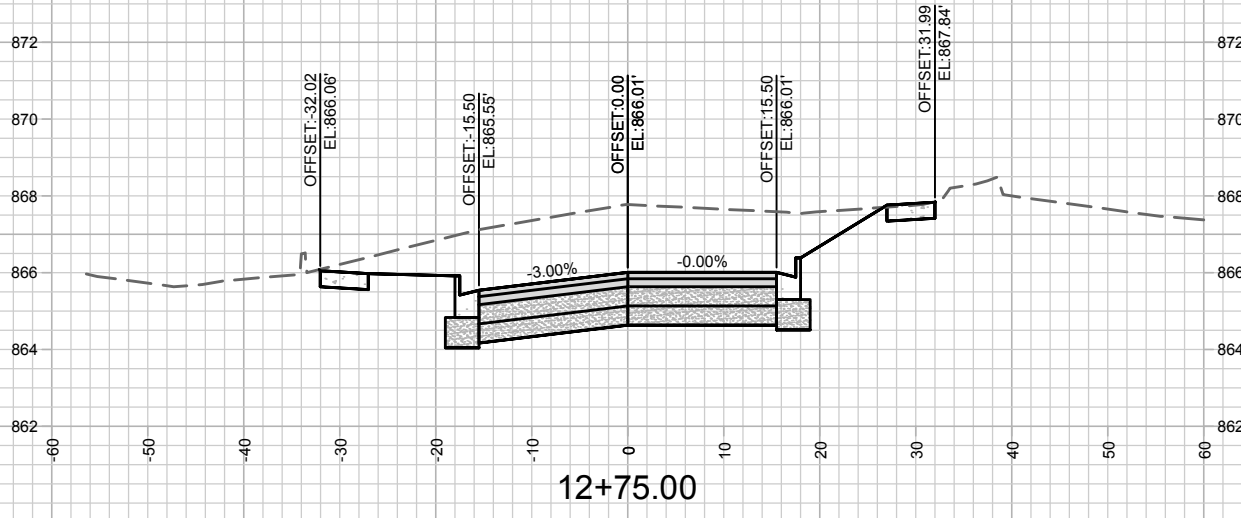


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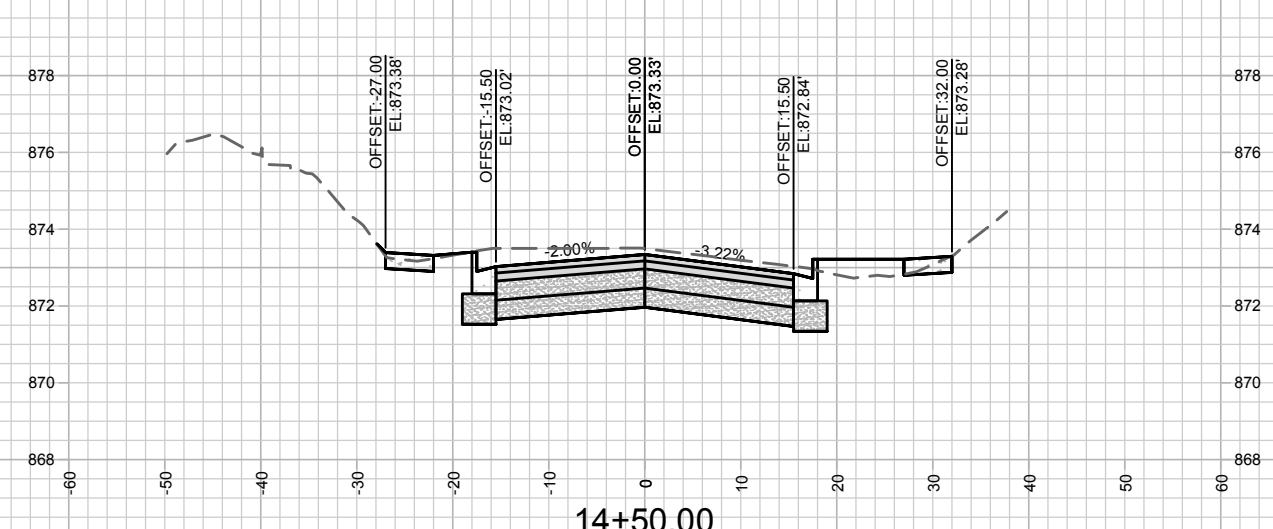
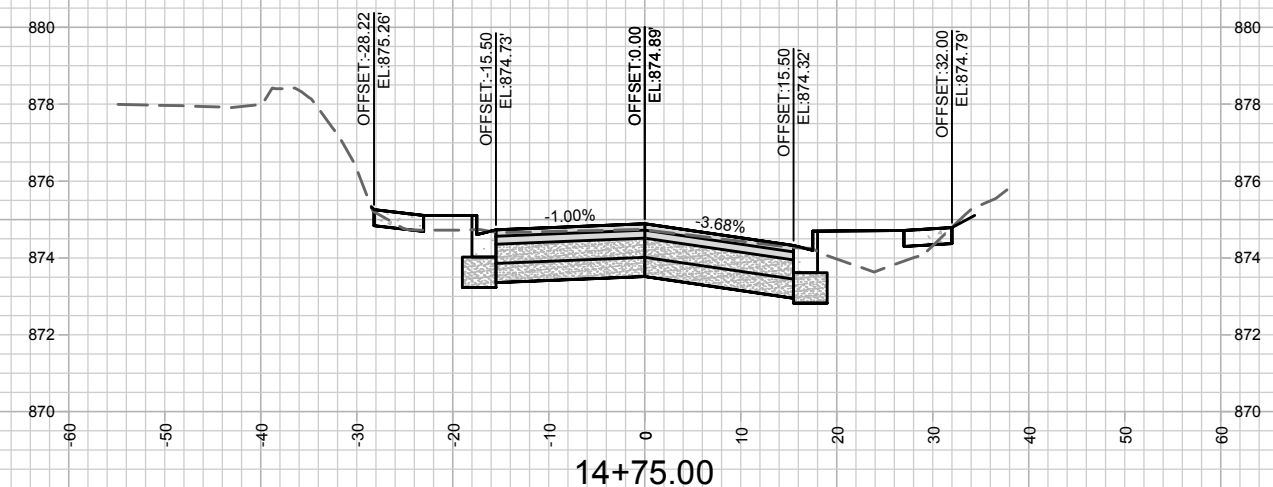
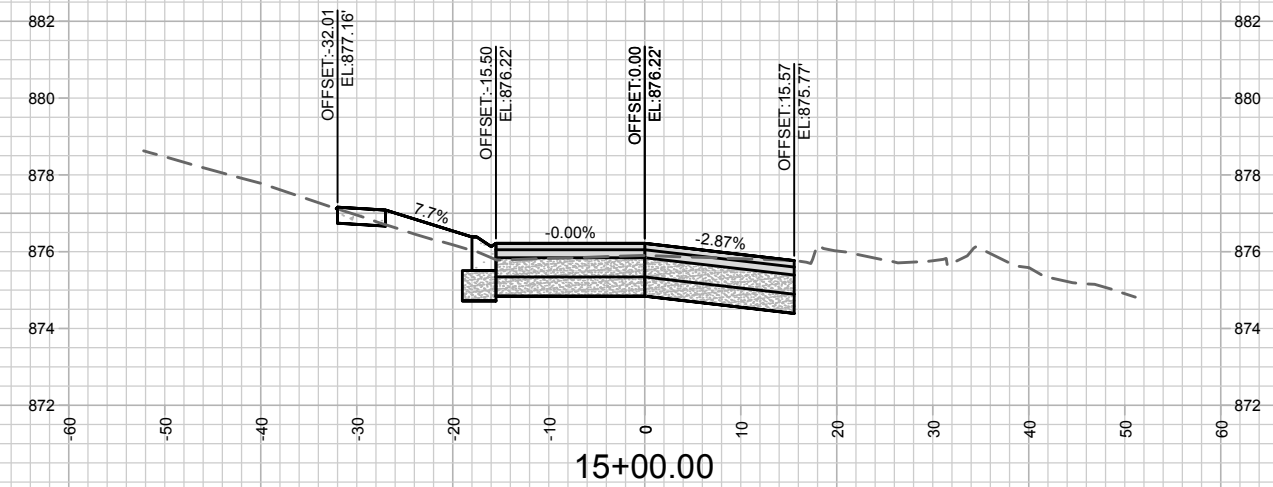
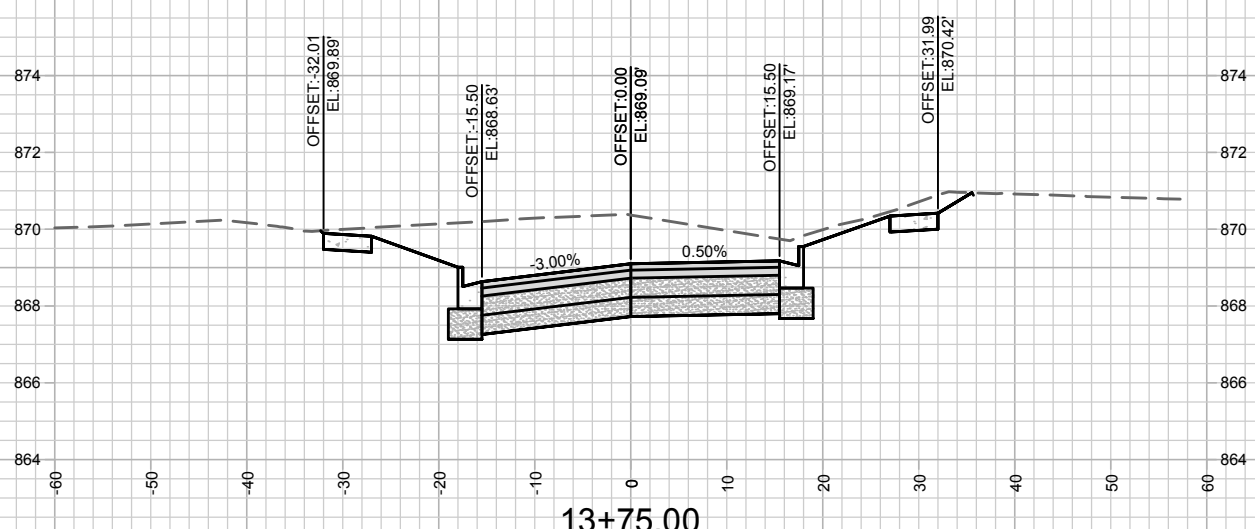
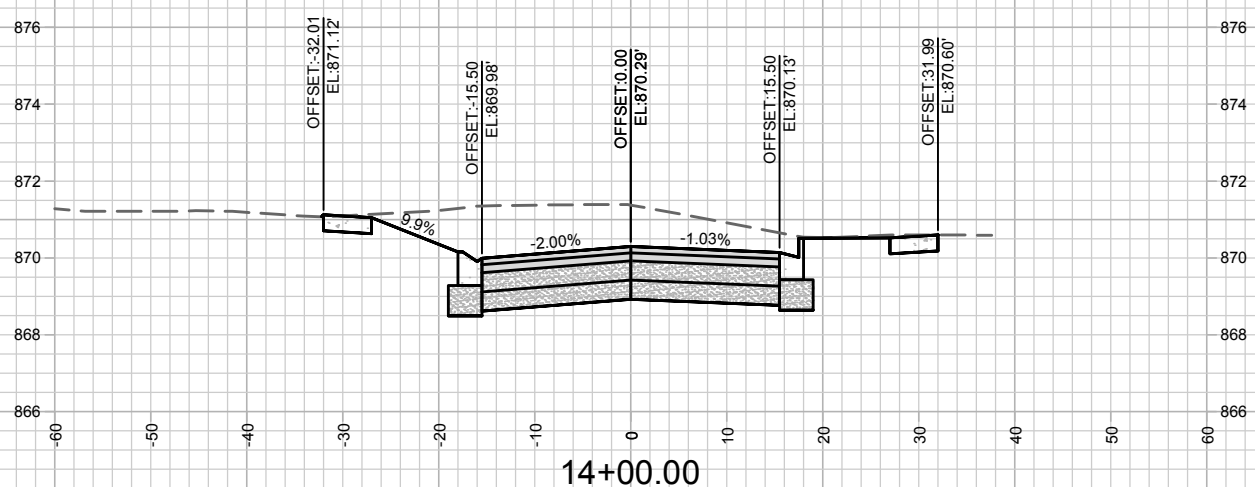
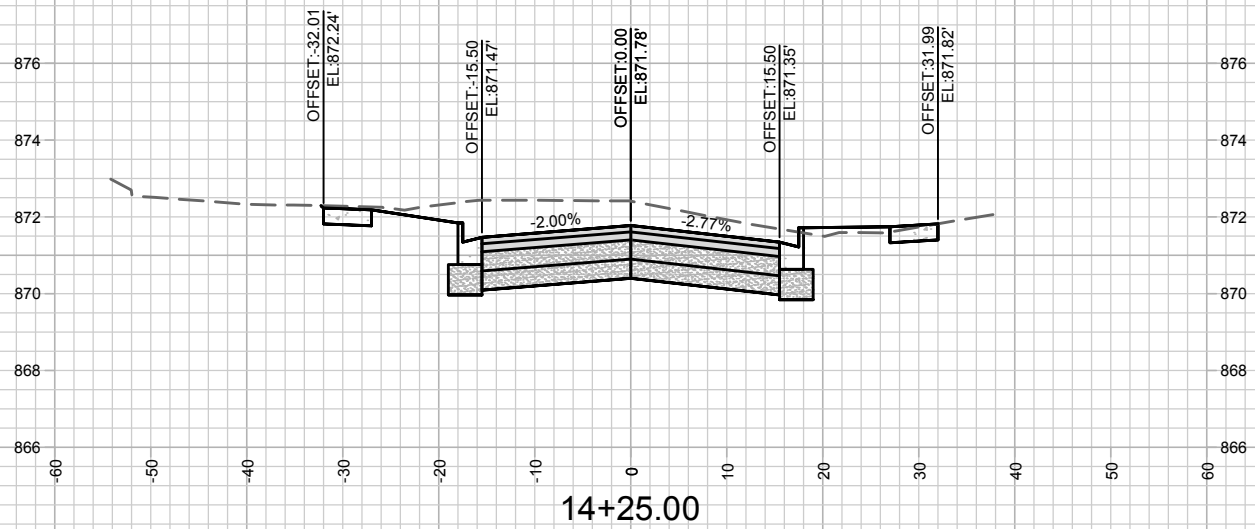
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 MADISON, WI
 CONTRACT NO: 8513

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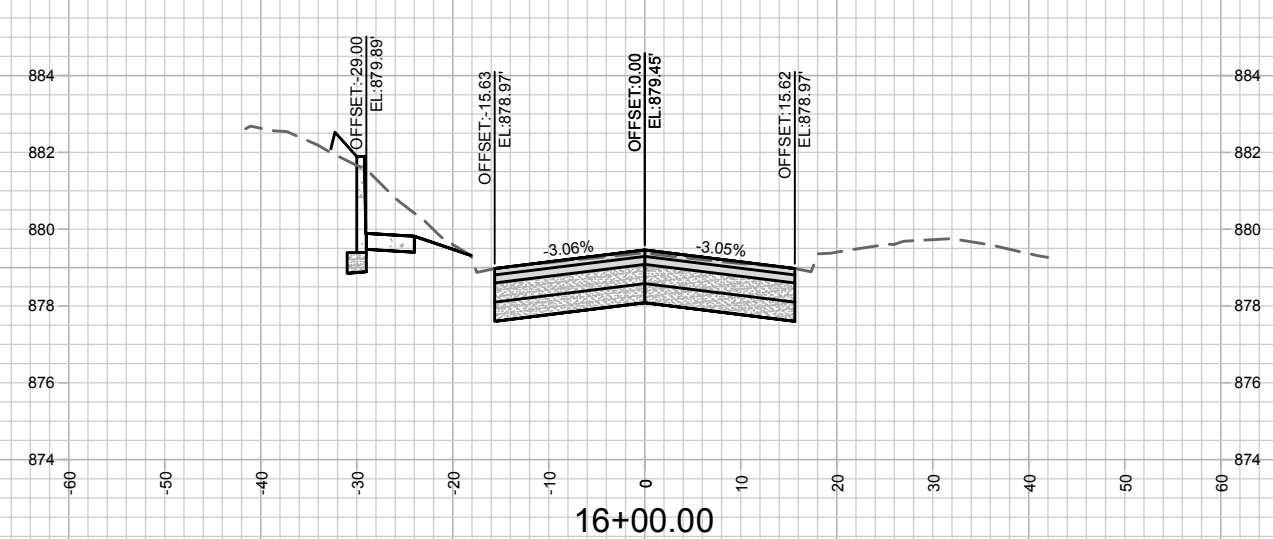
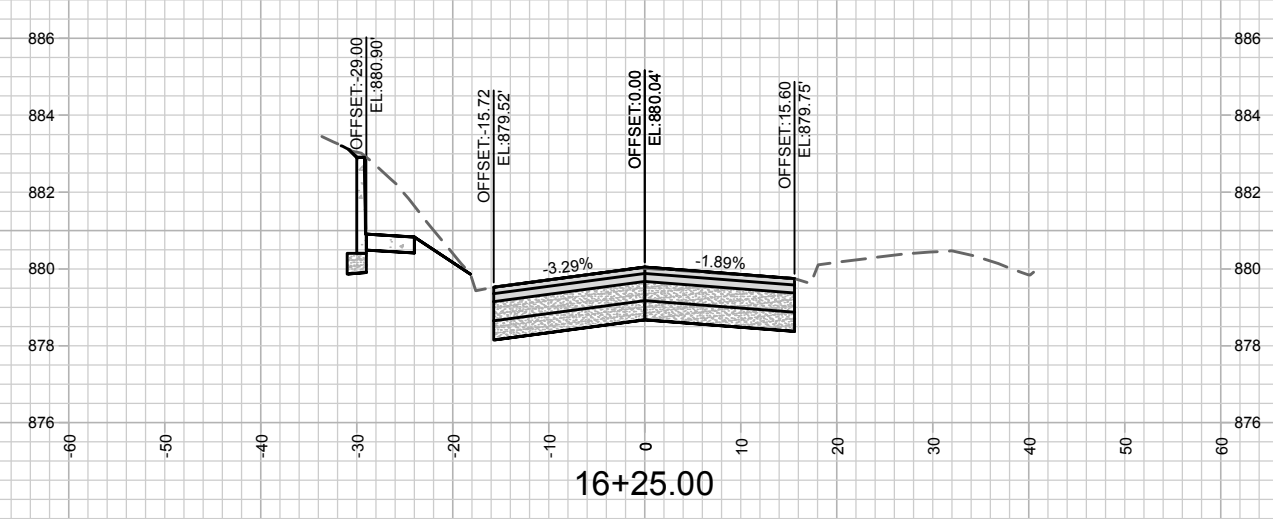
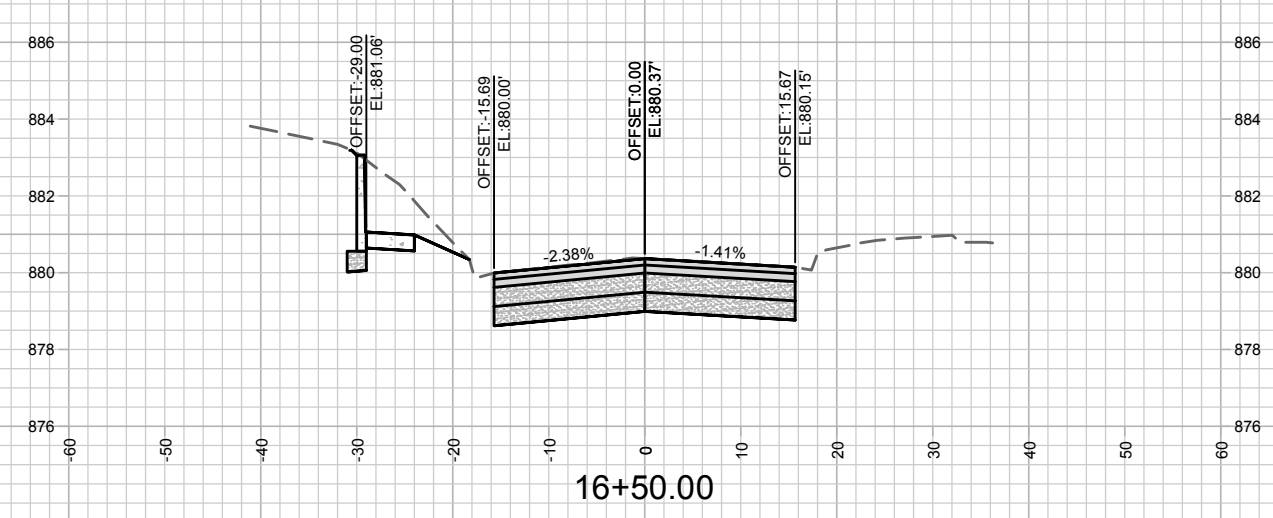
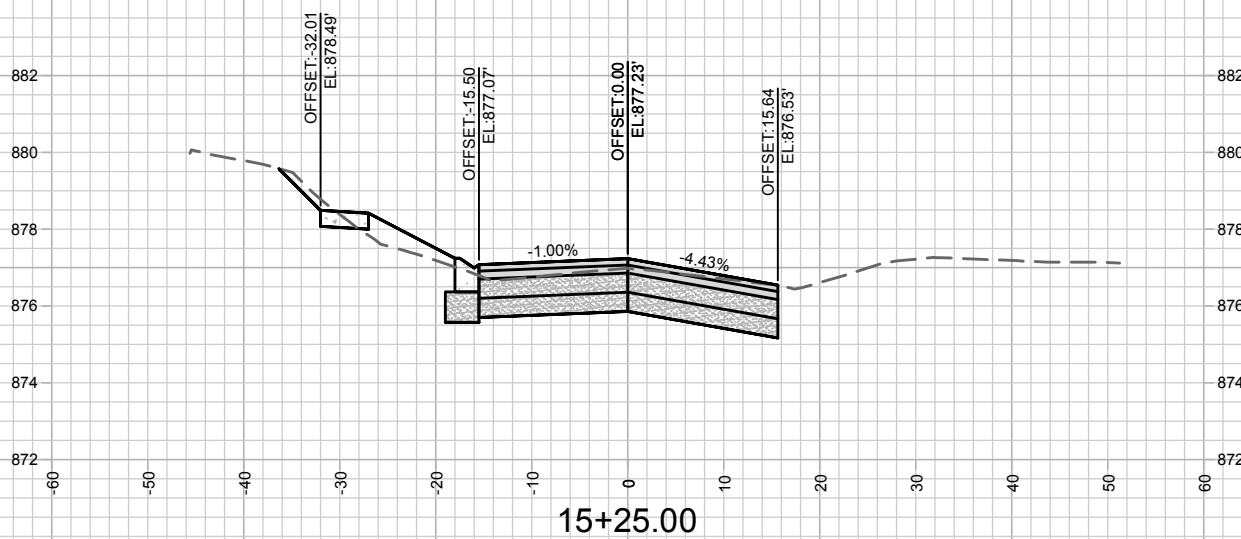
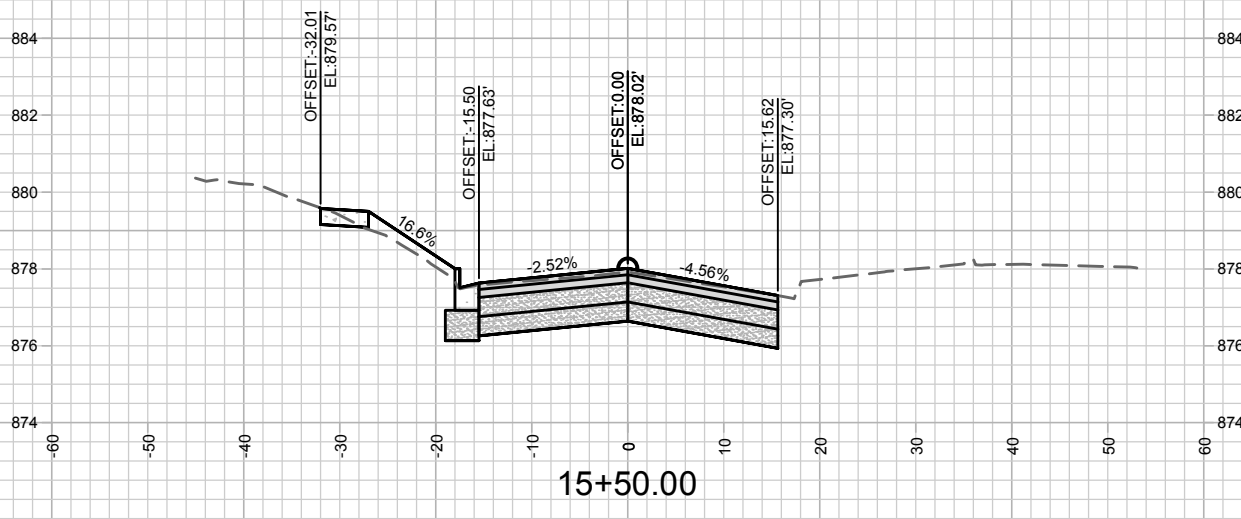
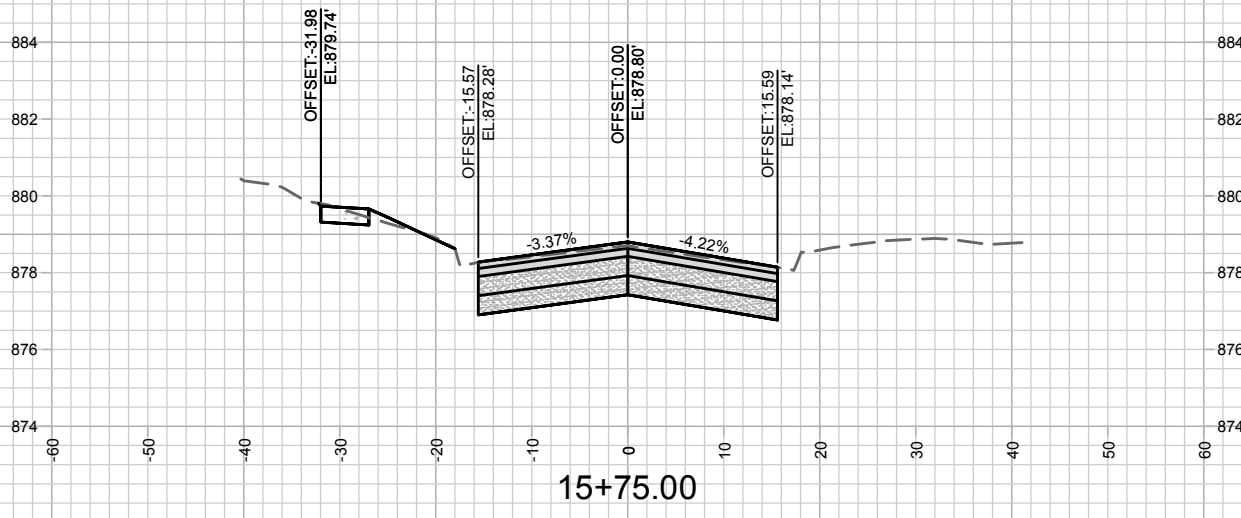
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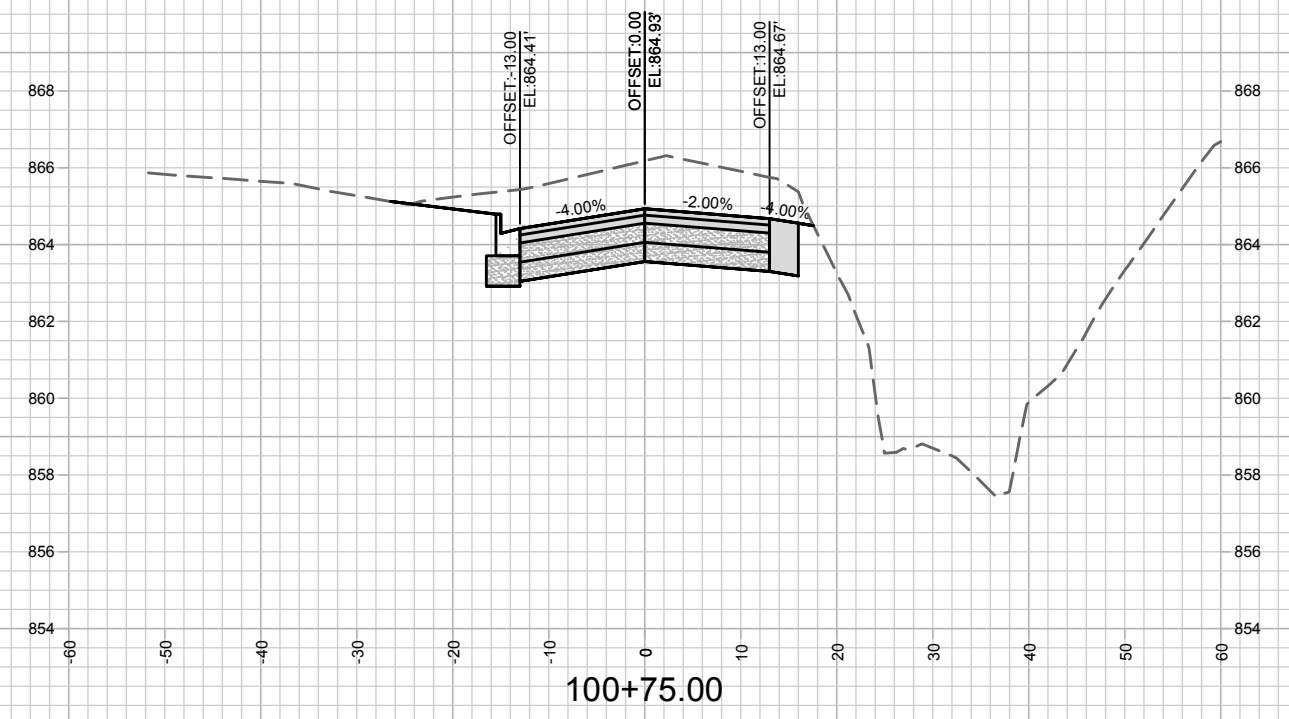
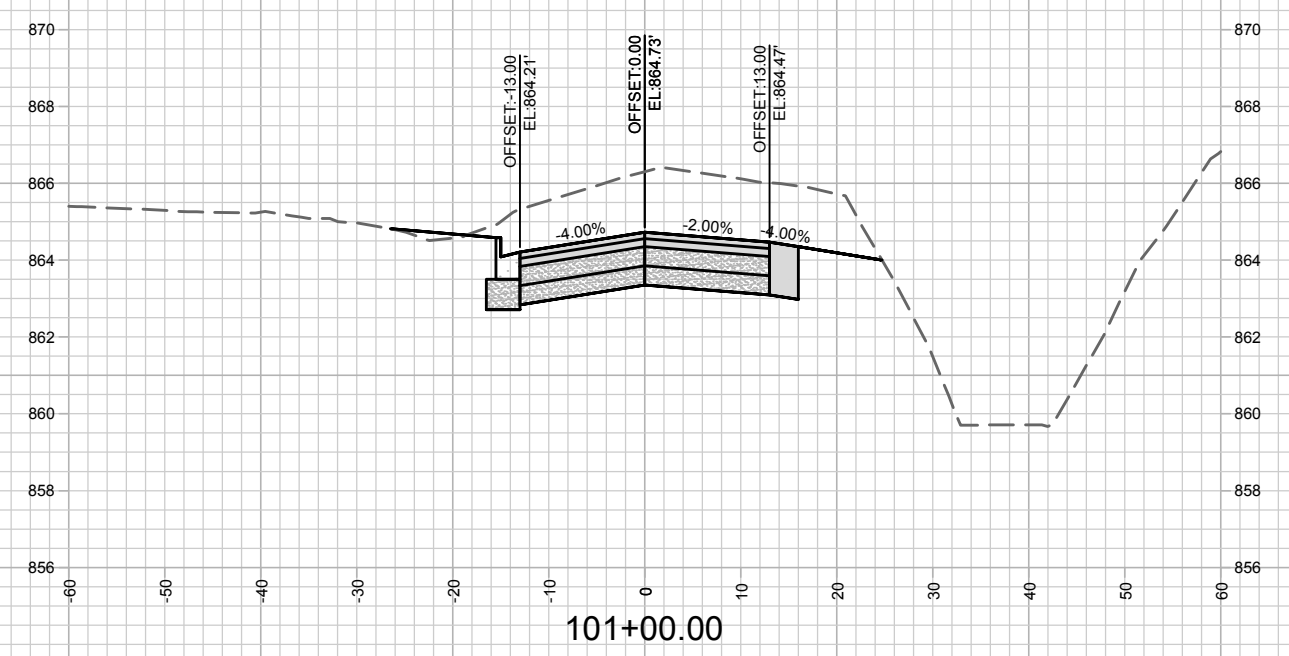
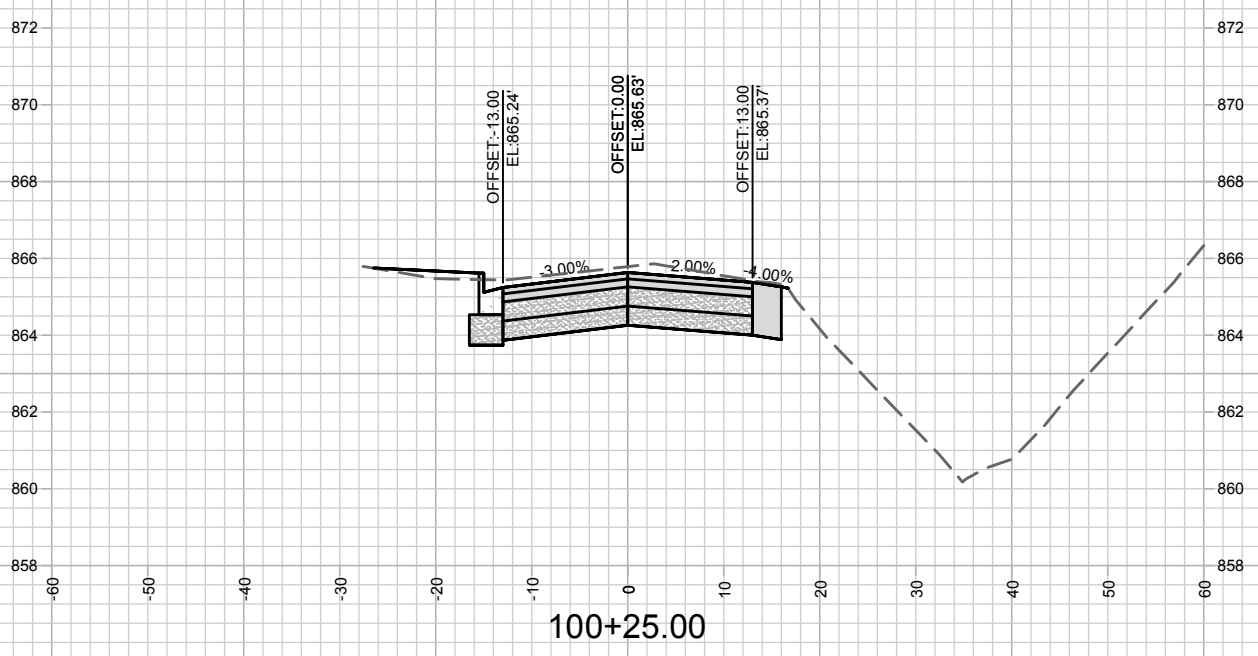
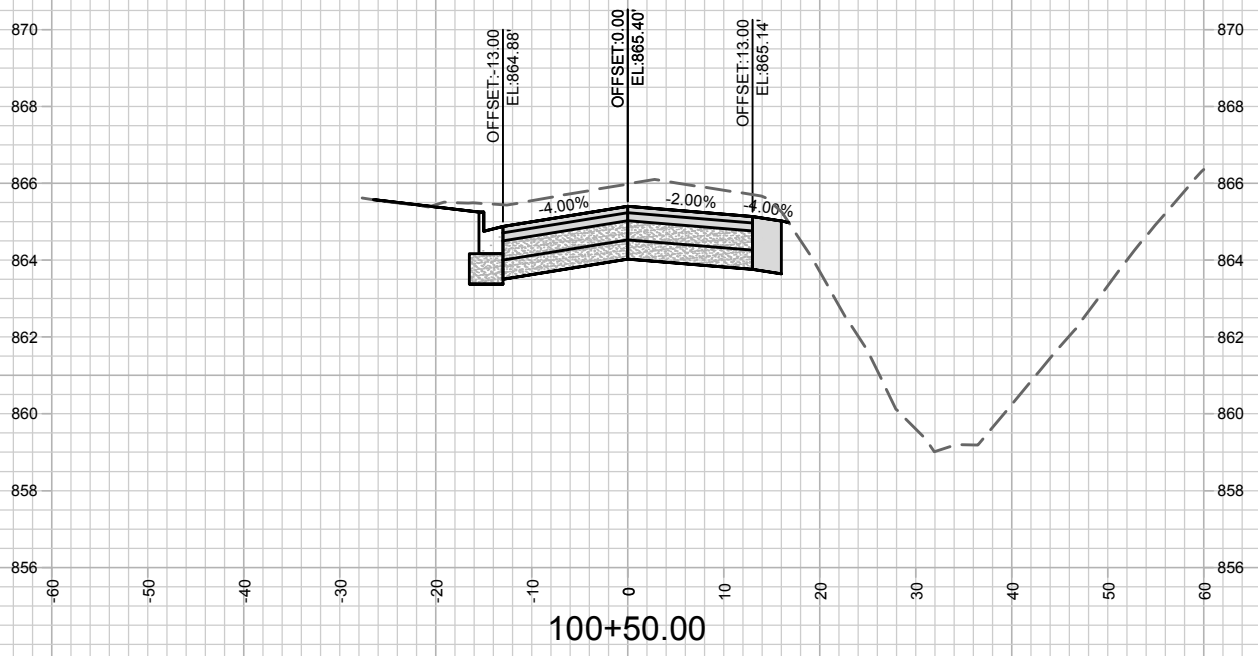
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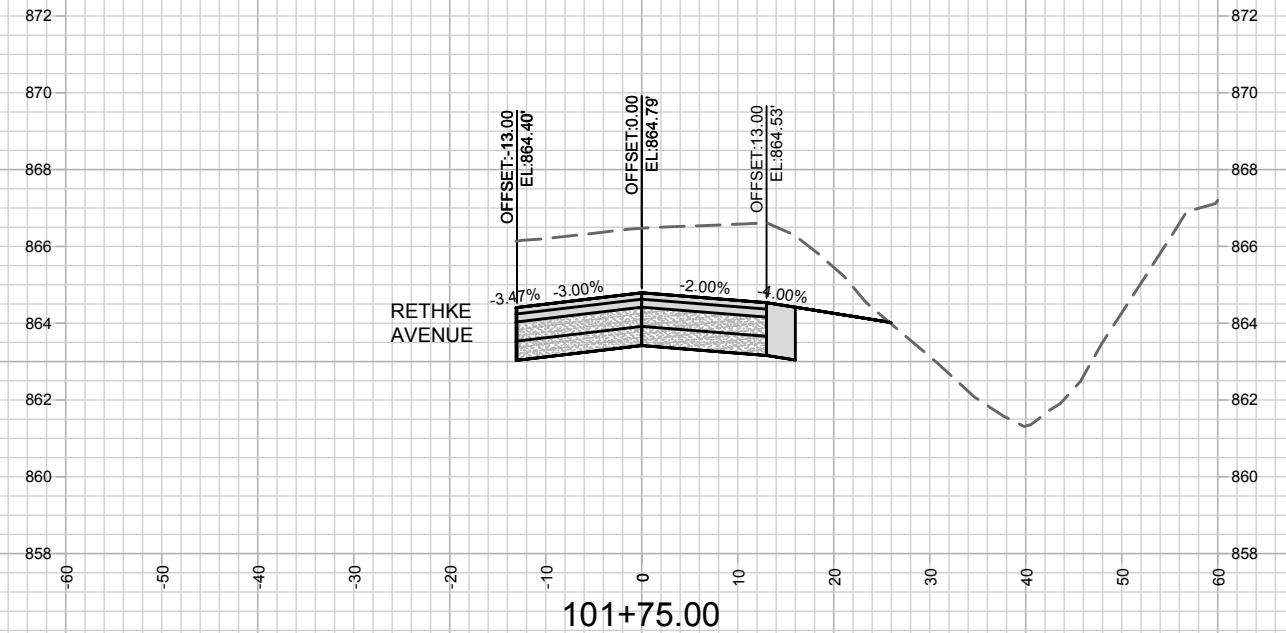
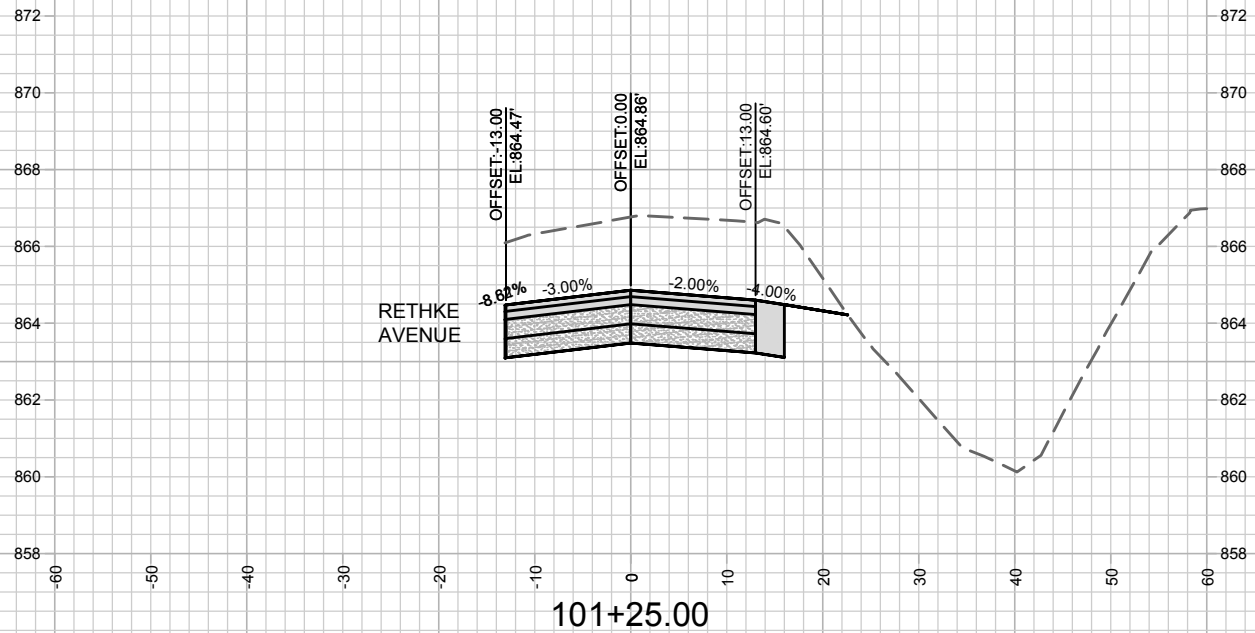
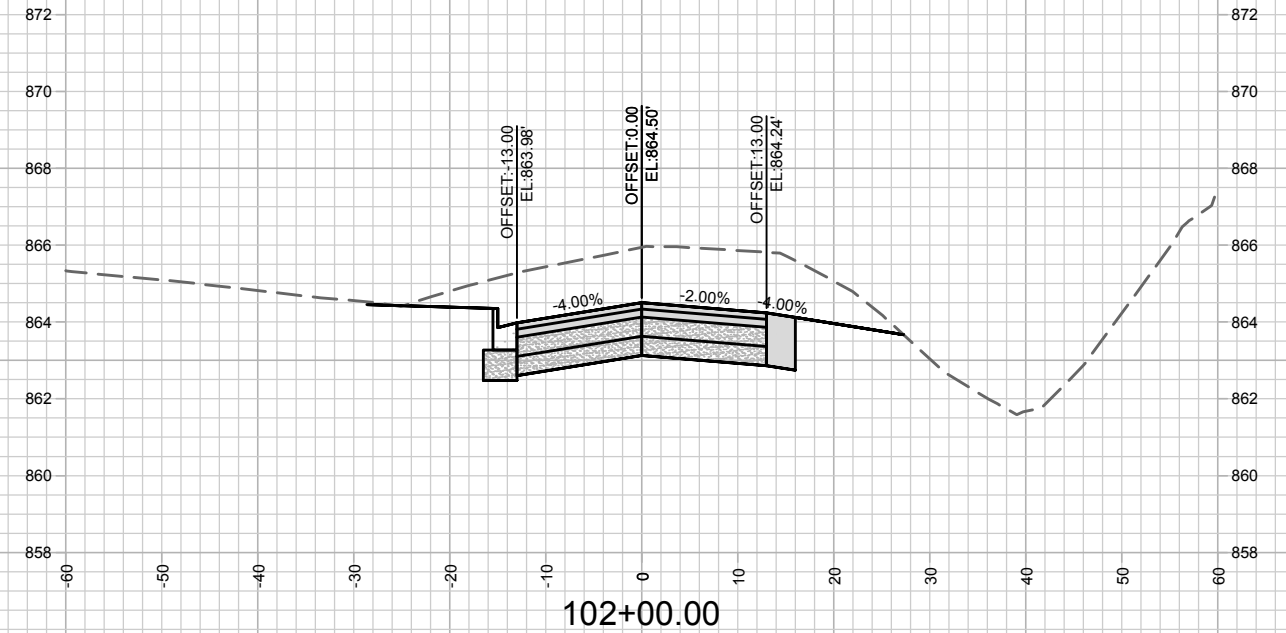
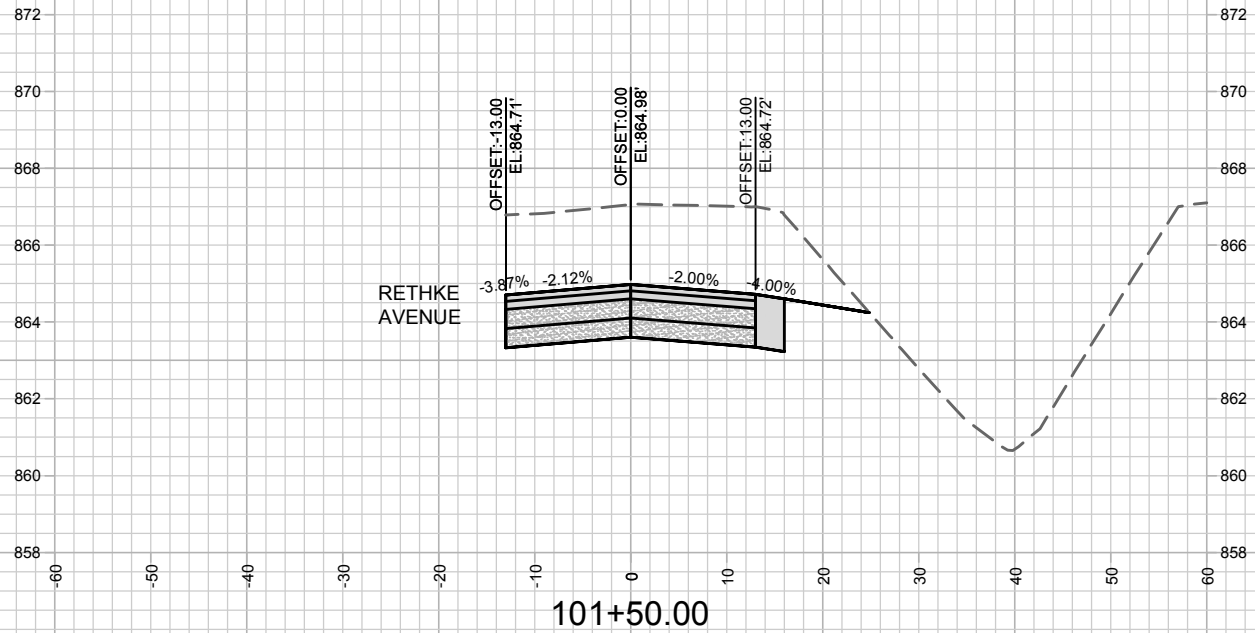


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