

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 16, 2019

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 2/11/20  
City Engineer Date

INDEX OF SHEETS

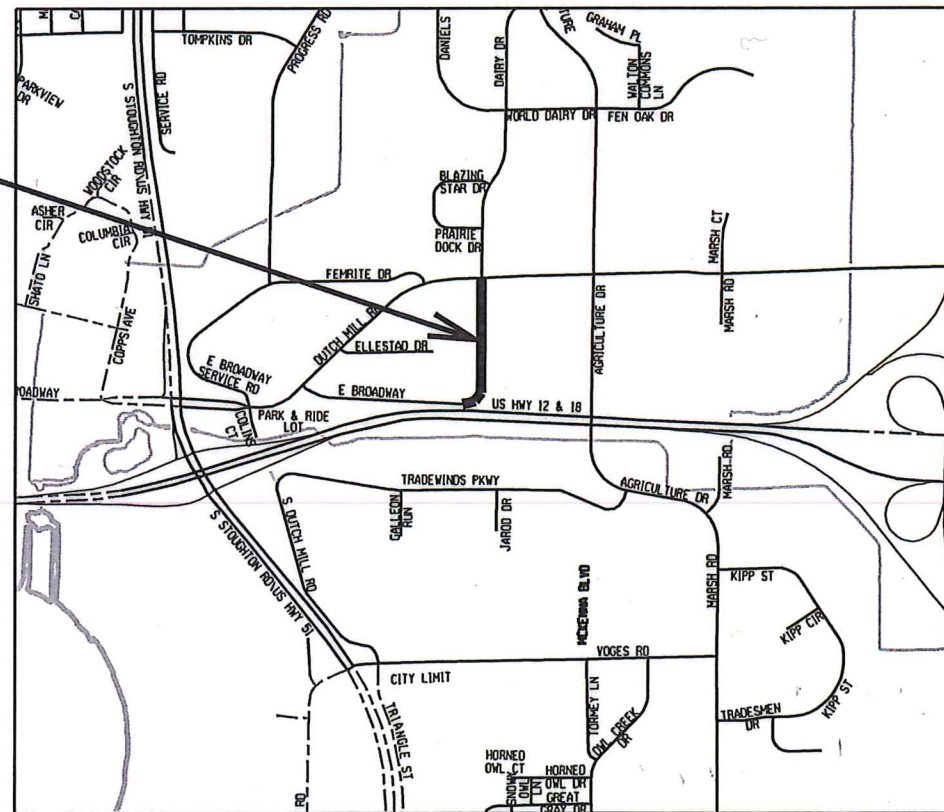
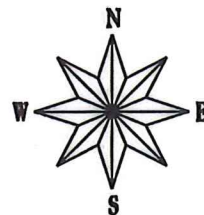
SHEET NO.	TITLE
SHEET NO. 1	TYPICAL SECTIONS
SHEET NO. D1	DEMOLITION PLAN
SHEET NO. D2	EROSION CONTROL PLANS
SHEET NO. EC1-EC3	STREET PLAN & PROFILES
SHEET NO. P1-P3	SEWERS PLAN & PROFILES
SHEET NO. U1-U3	BIOINFILTRATION BASIN DETAIL
SHEET NO. U4	BIOINFILTRATION BASIN RESTORATION PLAN
SHEET NO. U5	SEWER SCHEDULES
SHEET NO. U6-U7	WATER PLAN & PROFILES
SHEET NO. W1-W3	WATER ESTIMATE OF MATERIALS
SHEET NO. W4	WATER IMPACT PLAN
SHEET NO. W5	ELECTRICAL PLANS
SHEET NO. E1-E3	TRAFFIC CONTROL PLAN
SHEET NO. TC-1	CROSS SECTIONS
SHEET NO. XI-X12	MAINTANENCE MAP (CITY USE ONLY)
SHEET NO. M-1	

## DAIRY DRIVE ASSESSMENT DISTRICT - 2019

CITY PROJECT NO. 11865

CONTRACT NO. 8294

PROJECT  
LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

NOTES:

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

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

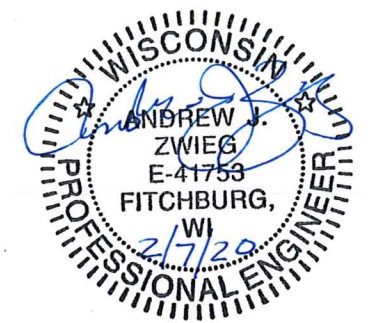
EARTH WORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY).....10,000 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT.....2,000 C.Y.  
ESTIMATED BIO-INFILTRATION POND EXCAVATION CUT.....1,250 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT.....13,250 C.Y.

TRAFFIC CONTROL  
DESIGNED BY:



STREET  
DESIGNED BY:



ELECTRICAL  
DESIGNED BY:



SANITARY SEWER  
DESIGNED BY:



WATER MAIN  
DESIGNED BY:



STORM SEWER  
DESIGNED BY:

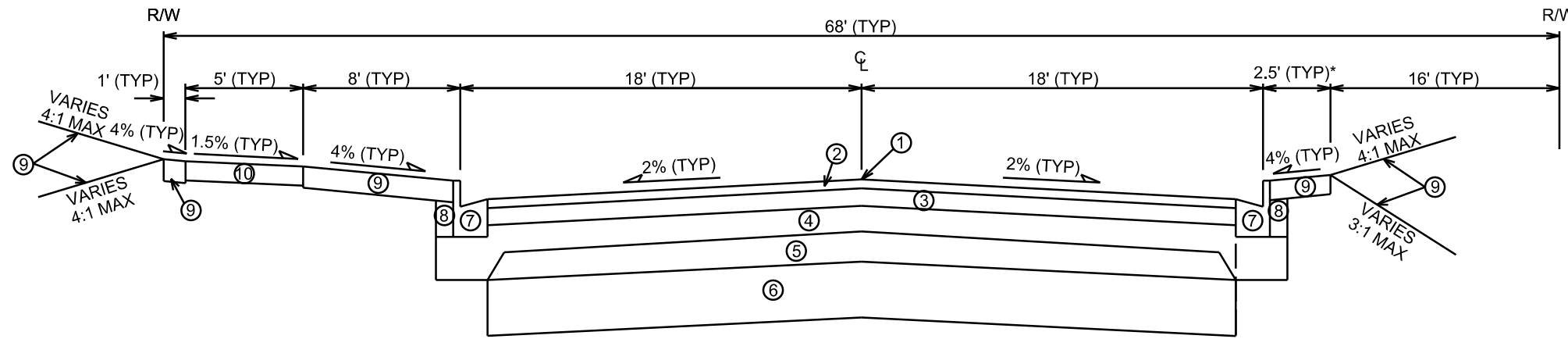


PLOT SCALE: \_\_\_\_\_

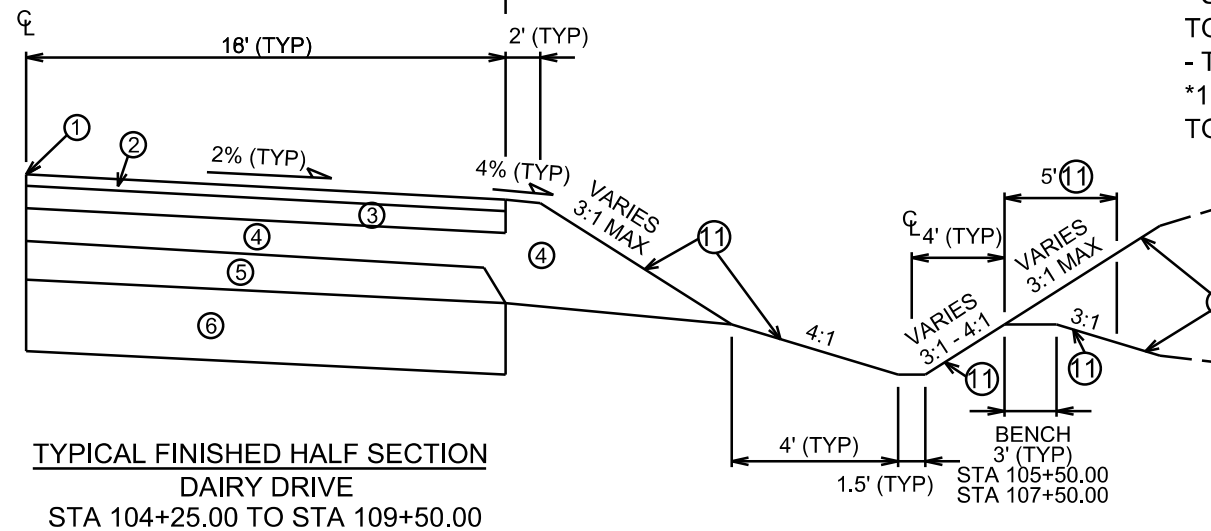
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL FINISHED SECTION  
DAIRY DRIVE  
STA 103+28.92 TO STA 117+11.77



TYPICAL FINISHED HALF SECTION  
DAIRY DRIVE  
STA 104+25.00 TO STA 109+50.00

- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, 4 MT 58-28 S
- ③ 3 1/2" BITUMINOUS LOWER LAYER, 3 MT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ 12" BREAKER RUN
- ⑦ TYPE 'A' CONCRETE CURB & GUTTER
- ⑧ FILL, INCIDENTAL
- ⑨ 6" TOPSOIL, TERRACE SEED  
& EROSION MAT, CLASS I, TYPE A - ORGANIC
- ⑩ 5" CONCRETE SIDEWALK
- ⑪ 6" TOPSOIL, COMMON NATIVE SEED MIX &  
EROSION MAT, CLASS II, TYPE C - ORGANIC

NOTES:

- SEE CROSS SECTIONS FOR CROSS SLOPES, TOP OF CURB ELEVATIONS, & SWALE LAYOUT.
- TYPICAL SECTION NOT TO SCALE.
- \*1.5' TERRACE FROM STA 103+28.92 TO STA 103+90 RT.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

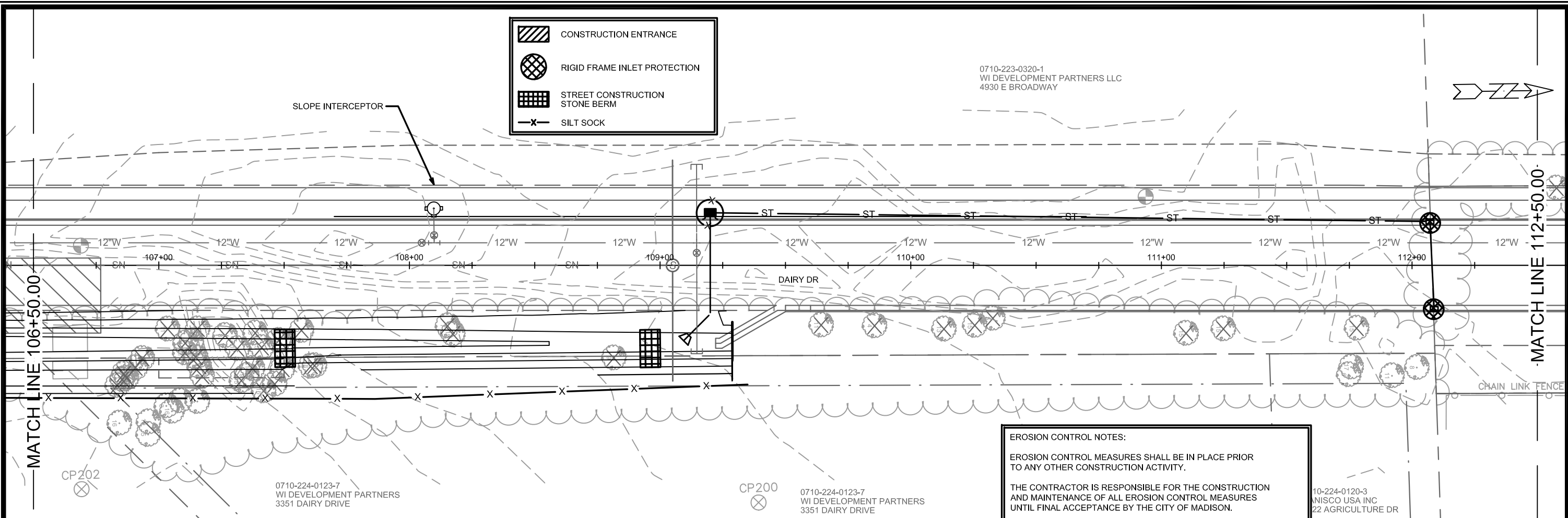




	CONSTRUCTION ENTRANCE
	RIGID FRAME INLET PROTECTION
	STREET CONSTRUCTION STONE BERM
	SILT SOCK

0710-223-0320-1  
WI DEVELOPMENT PARTNERS LLC  
4930 E BROADWAY

SLOPE INTERCEPTOR



**EROSION CONTROL NOTES:**

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

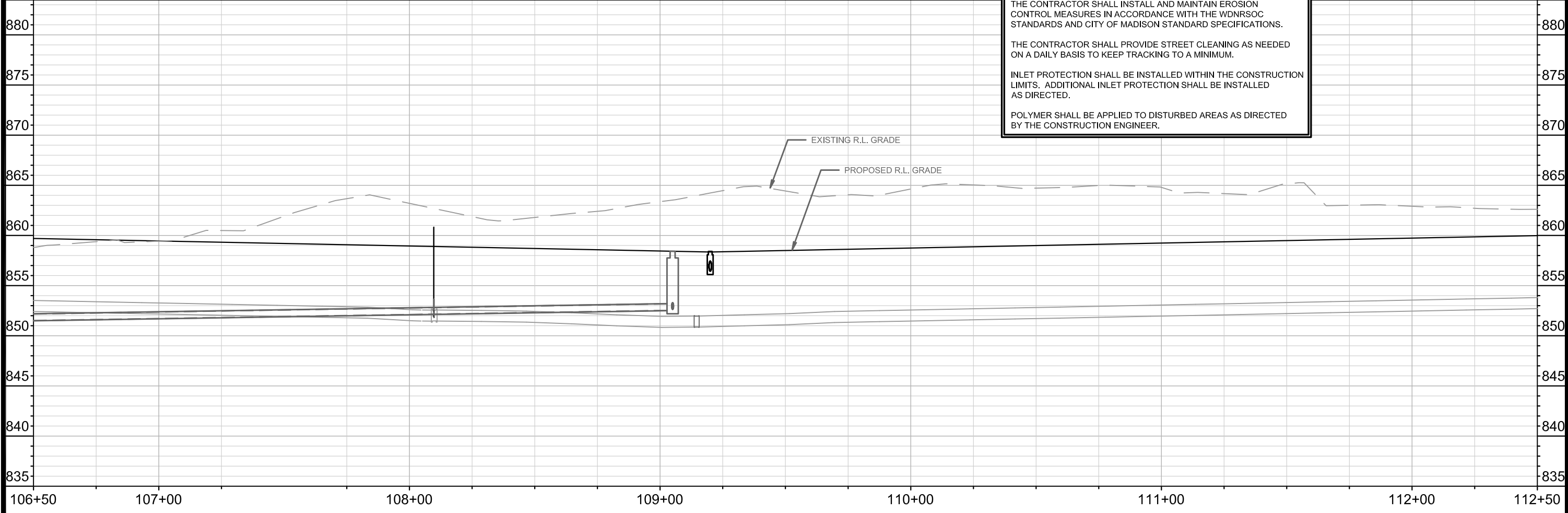
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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.



MARK	REVISION	DATE	BY
11865	07/09/2020		
Designed By: KDF			Scale: 1" = 40'
Date: 07/09/2020			11865
			EC-2

11865  
MADISON, WI  
CONTRACT NO: 8294  
EROSION CONTROL PLAN  
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
CITY OF MADISON



11865  
EC-2

	CONSTRUCTION ENTRANCE
	RIGID FRAME INLET PROTECTION
	STREET CONSTRUCTION STONE BERM
	SILT SOCK

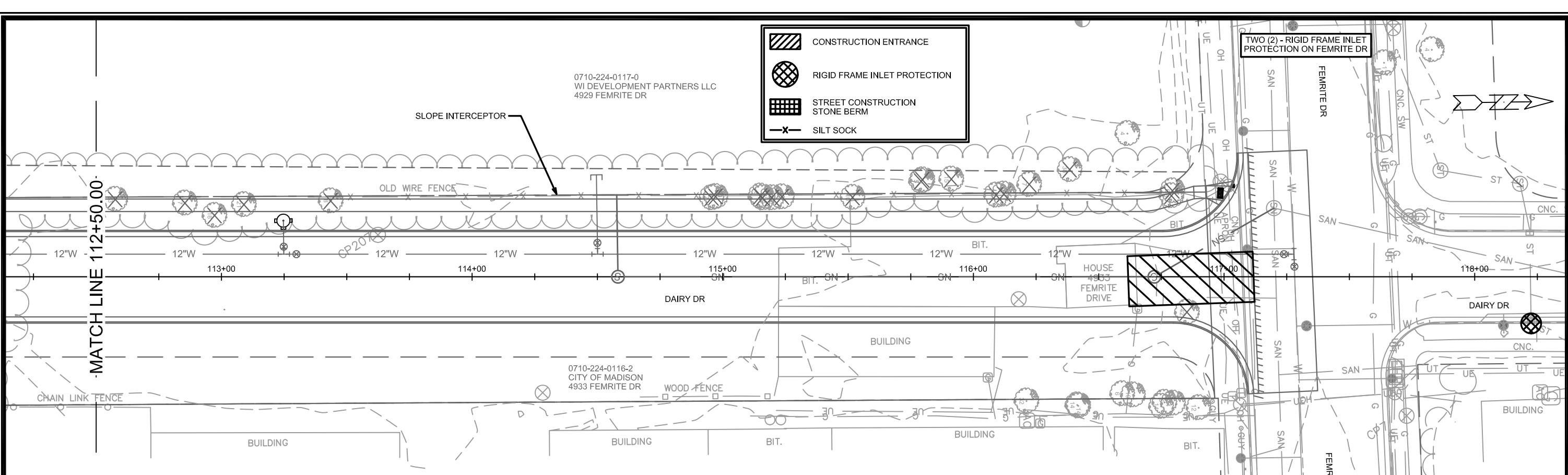
TWO (2) - RIGID FRAME INLET PROTECTION ON FEMRITE DR

0710-224-0117-0  
WI DEVELOPMENT PARTNERS LLC  
4929 FEMRITE DR

SLOPE INTERCEPTOR

OLD WIRE FENCE

MATCH LINE 112+50.00



0710-224-0116-2  
CITY OF MADISON  
4933 FEMRITE DR

0710-224-0118-8  
LICHTFELD, RICHARD H  
5001 FEMRITE DR

**EROSION CONTROL NOTES:**

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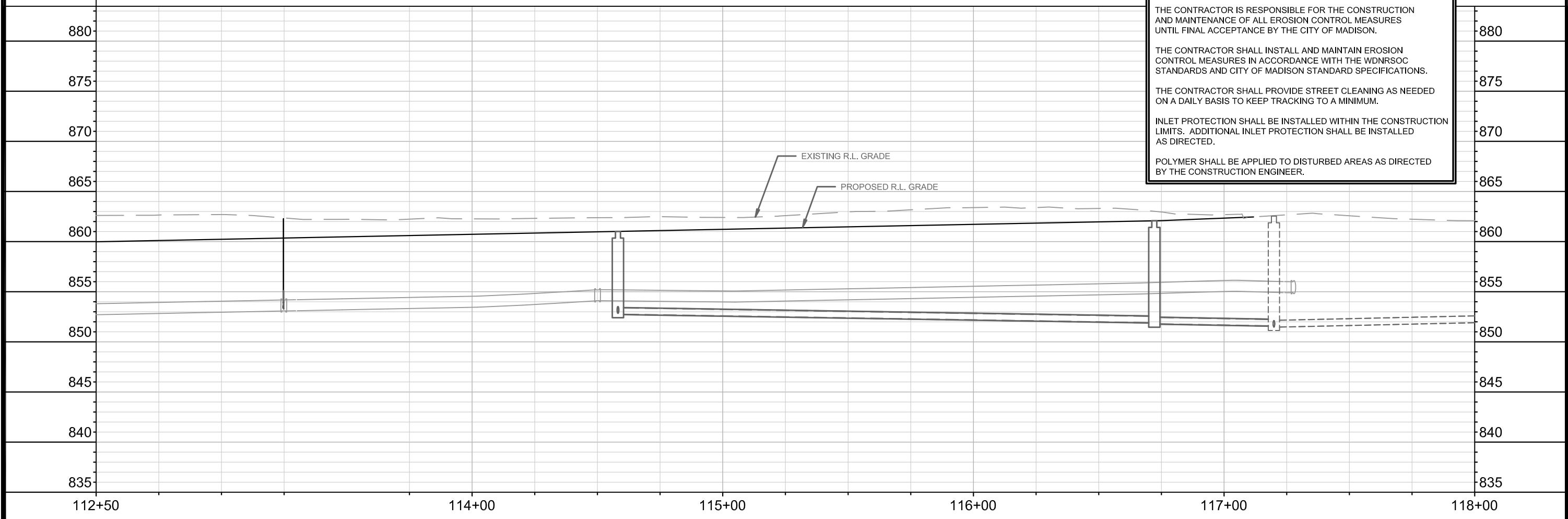
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EXISTING R.L. GRADE

PROPOSED R.L. GRADE

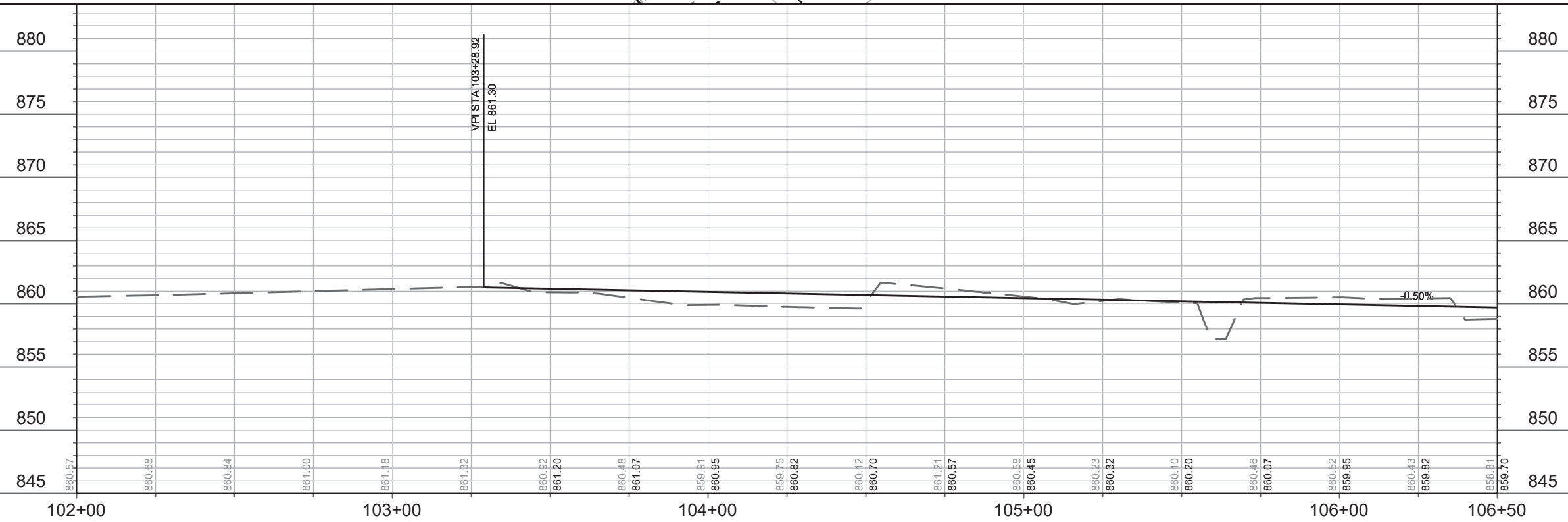
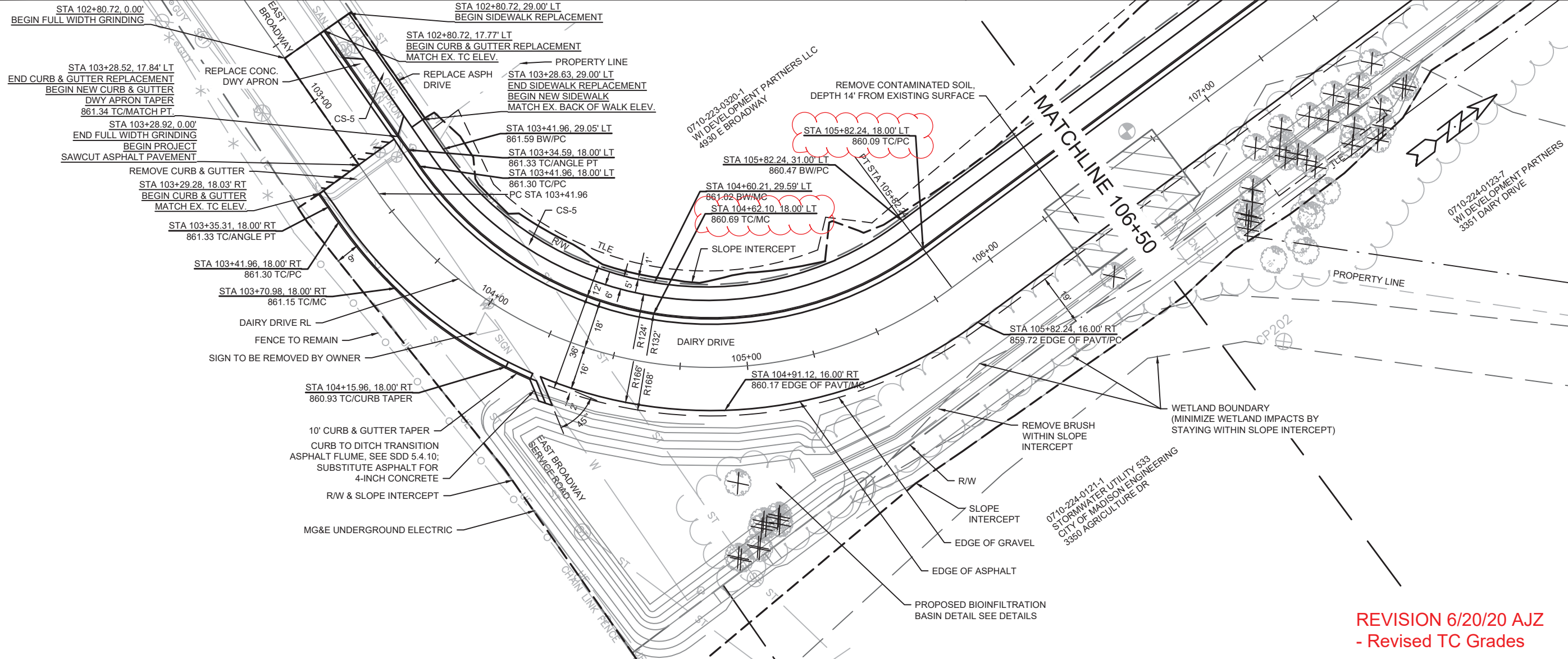


MARK	REVISION	DATE	BY
11865	07/09/2020		
Designed By: KDF			Scale: 1" = 40'

11865  
 MADISON, WI  
 CONTRACT NO: 8294  
 EROSION CONTROL PLAN  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
 CITY OF MADISON



11865  
EC-3



REVISION 6/20/20 AJJ  
- Revised TC Grades

REVISION	DATE	BY
MARK	DATE	BY
11865	6/18/2020	AJZ

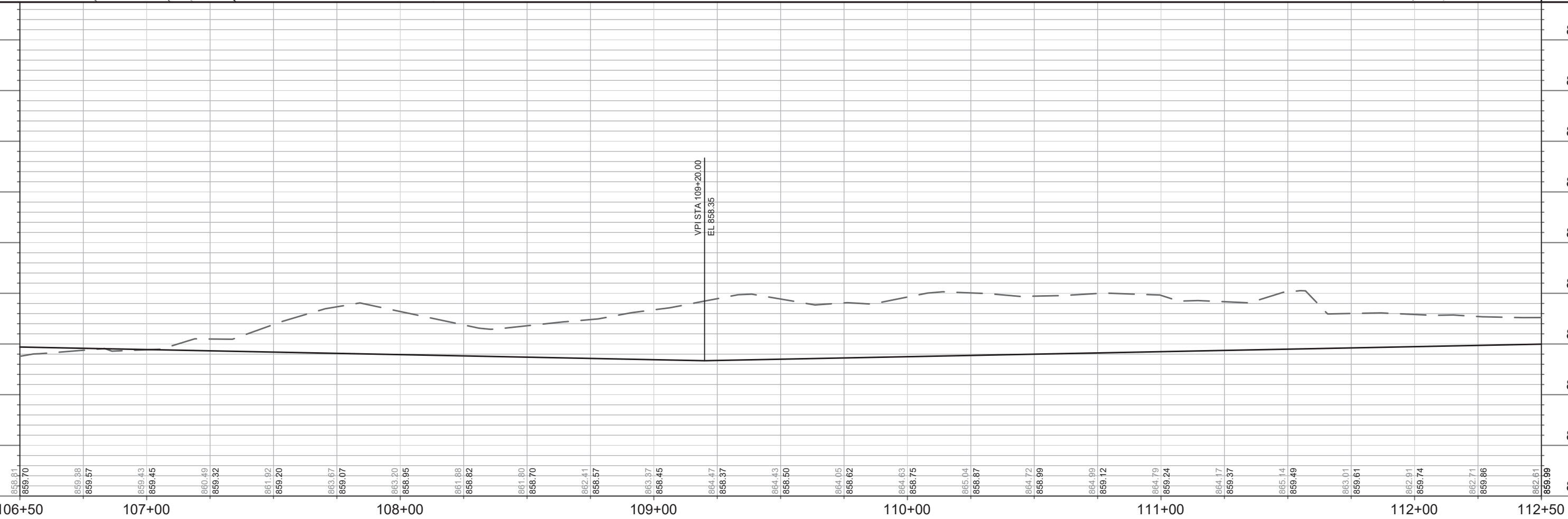
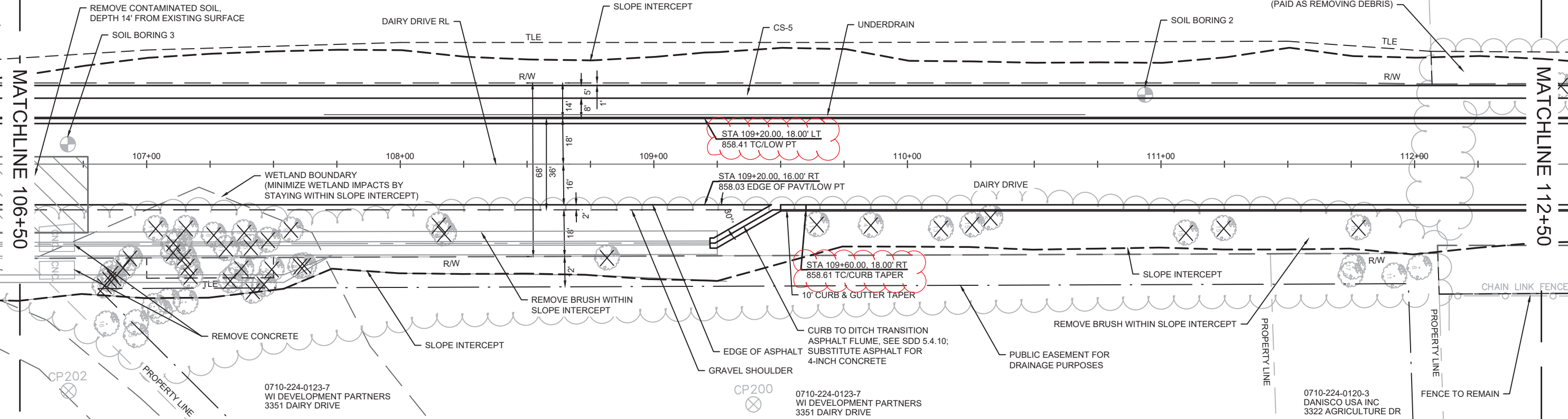
11865  
MADISON, WI  
CONTRACT NO: 8294

PLAN & PROFILE  
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)



**REVISION 6/20/20 AJZ**  
**- Revised TC Grades**

0710-223-0320-1  
 WI DEVELOPMENT PARTNERS LLC  
 4930 E BROADWAY



REVISION	DATE	BY
11865	6/19/2020	AJZ
11865	10-41 AM	AJZ
Designed By: AJZ Date: 6/19/2020 10:41 AM Scale: 1" = 40'		

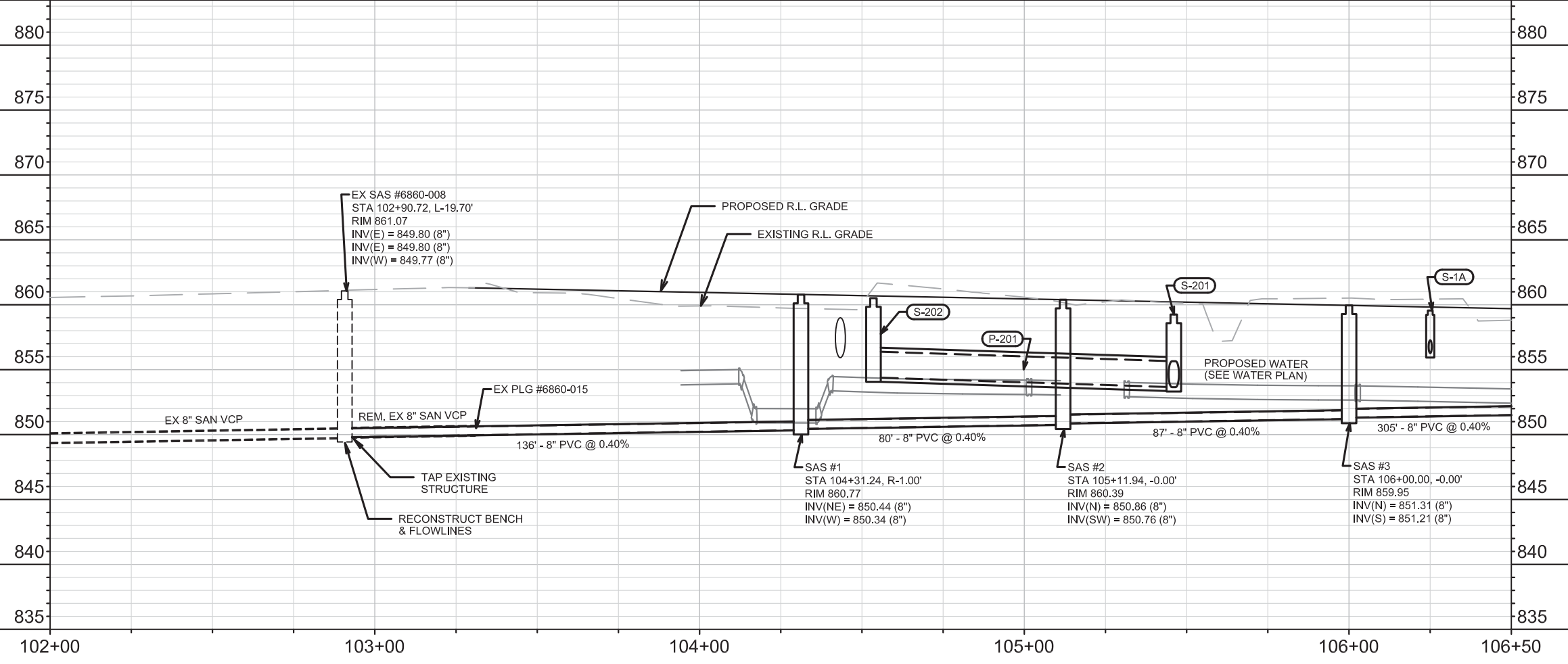
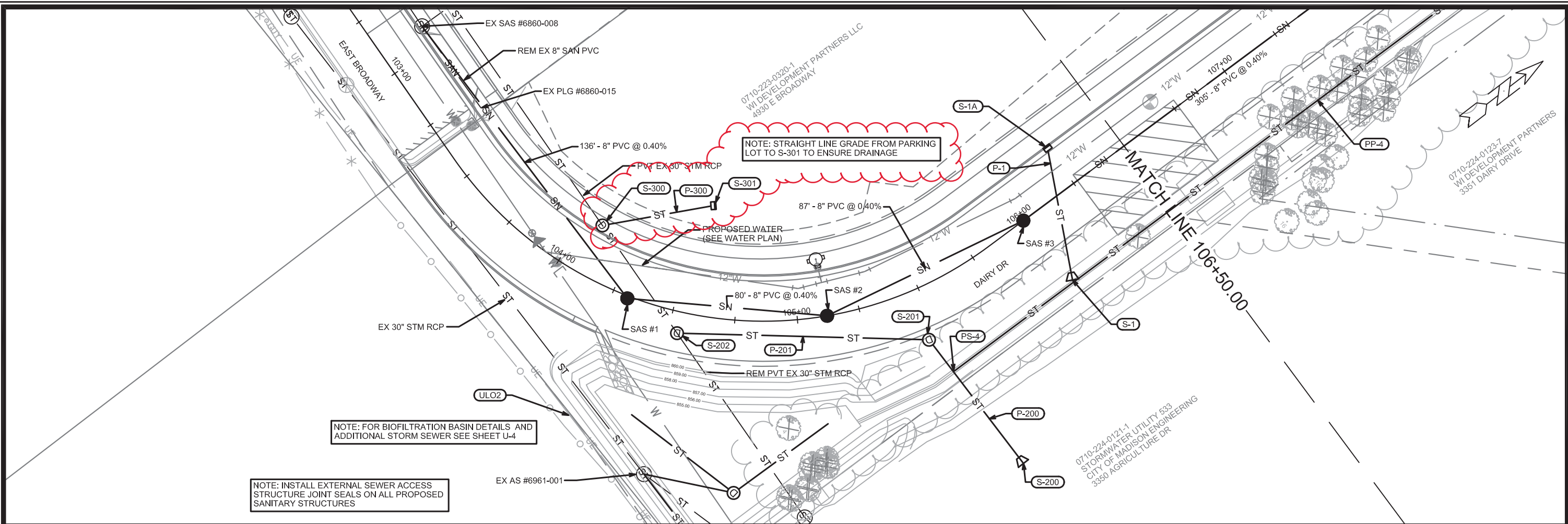
11865  
 MADISON, WI  
 CONTRACT NO: 8294

PLAN AND PROFILE  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
 M:\DESIGN\Projects\11865\CAD\Plan Sheets\11865EN-PnP DairyDr.dwg

11865  
 P-2







11865	11865	U-1
MADISON, WI	ADDED STORM SEWER	6/23/2024 KDF
CONTRACT NO: 8294	STORM SEWER	6/20/2024 KDF
UTILITY PLAN & PROFILE	REVISION	DATE
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)	DESIGNED BY: KDF	DATE: 07/09/2020
CITY OF MADISON	SCALE: 1" = 40'	U-1

# STORM SEWER SCHEDULE

\*REV 6/20/2020 KDF

\*\*REV 6/23/2020 KDF

DAIRY DRIVE  
PROJECT NO. 11865

SHEET NO.  
U-7

STORM SEWER SCHEDULE

CITY OF MADISON

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>DAIRY DRIVE</b>							
* S-1	106+01.64	RT-30.70	12" RCP AE	-	<b>856.00</b>	-	W/GATE
* S-1A	106+25.01	LT-17.50	H INLET	859.88	<b>856.27</b>	<b>3.61</b>	W/R-3067-7004-V
S-2	109+20.02	RT-30.25	12" RCP AE	-	856.20	-	W/GATE
S-3	109+20.00	RT-19.45	STORM BEND	-	856.23	-	45-DEGREE
S-4	109+20.00	LT-21.00	TERRACE INLET 3	858.41	856.44	1.97	[1]
S-5	112+07.14	LT-17.50	H INLET	859.83	857.15	2.68	W/R-3067-7004-V
S-6	112+08.83	RT-17.50	H INLET	859.83	857.31	2.52	W/R-3067-7004-V
S-101	104+75.27	RT-99.93	4X4 SAS	859.00	853.24	5.76	W/R-1550-0054
S-102	105+00.45	RT-116.47	30" RCP AE	-	853.35	-	W/GATE
S-200	105+56.20	RT-81.31	24"X38" HERCP AE	-	853.50	-	W/GATE
S-201	105+46.04	RT-20.68	4X4 SAS	859.14	853.65	5.49	W/R-1550-0054
S-202	104+53.55	RT-8.56	4X4 SAS	860.51	854.40	6.11	W/R-1550-0054
PS-2	104+78.27	RT-68.85	3' DIA SAS	856.50	853.50	3.00	[2]
PS-2A	105+06.77	RT-42.51	PIPE END	-	853.50	-	-
PS-3	104+45.18	RT-44.47	PIPE END	-	853.50	-	-
* PS-4	105+49.39	RT-36.21	TAP	-	<b>854.55</b>	-	-
* PS-4A	109+04.15	RT-36.21	PLUG	-	<b>854.84</b>	-	-
** S-300	104+08.18	LT-21.05	4X4 SAS	861.07	<b>854.56</b>	<b>6.51</b>	W/R-1550-0054
** S-301	104+57.95	LT-44.22	H INLET	857.50	<b>854.90</b>	<b>2.60</b>	FP, W/R-1878-B7G

## 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
<b>DAIRY DRIVE</b>										
* P-1	S-1	S-1A	<b>856.00</b>	<b>856.27</b>	53.5	51.2	<b>0.53%</b>	12"	RCP	-
P-2	S-2	S-3	856.15	856.23	15	14.4	0.55%	12"	PRESSURE	-
P-3	S-3	S-4	856.23	856.44	40.5	38.8	0.55%	12"	PRESSURE	-
P-4	S-4	S-5	856.44	857.15	287	285.3	0.25%	12"	RCP	-
P-5	S-5	S-6	857.15	857.31	35	32	0.50%	12"	RCP	-
P-100	AS #6961-001	S-101	853.14	853.24	48	43.59	0.25%	30"	RCP	TAP EX STRUCT.
P-101	S-101	S-102	853.24	853.35	46.5	42.8	0.25%	30"	RCP	-
P-200	S-200	S-201	853.50	853.65	62	58.51	0.25%	24"x38"	RCP	-
P-201	S-201	S-202	853.65	854.40	100.5	96.37	0.78%	24"x38"	RCP	-
PP-1	AS #6961-001	PS-2	853.34	853.50	36.5	32.3	0.50%	12"	RCP	TAP EX STRUCT.
PP-2	PS-2	PS-3	853.50	853.50	51.5	50.05	0.00%	8"	UD	-
PP-2A	PS-2	PS-2A	853.50	853.50	47	45.5	0.00%	8"	UD	-
* PP-4	PS-4	PS-4A	<b>854.55</b>	<b>854.84</b>	<b>362.5</b>	<b>362.4</b>	<b>0.08%</b>	<b>8"</b>	<b>UD</b>	-
** P-300	S-300	S-301	<b>854.56</b>	<b>854.90</b>	<b>45</b>	<b>41.2</b>	<b>0.83%</b>	<b>18"</b>	<b>RCP</b>	-

## REMOVE STORM STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>DAIRY DRIVE</b>				
AE #6960-003	105+11.60	RT-107.50	30" RCP AE	[3]
AS #6960-002	104+97.25	RT-79.00	SAS	[3]
AE #6960-001	105+00.50	RT-116.50	30" RCP AE	[3]

## REMOVE STORM PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>DAIRY DRIVE</b>						
AE #6960-003	AS #6960-002	36	30"	RCP	Y	-
AS #6960-002	S-202	86	30"	RCP	Y	-
AS #6961-001	AE #6960-001	88	30"	RCP	Y	-

## STORM SEWER ULOs (5 ADDITIONAL INDISTRIBUTED ULOs INCLUDED)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
<b>DAIRY DRIVE</b>					
ULO1	104+67.75	RT-101.80	ELECTRIC	-	-
ULO2	104+28.00	RT-53.00	ELECTRIC	-	-
ULO3	116+92.25	LT-39.00	TELE	-	-
ULO4	116+99.00	CL	ELECTRIC	-	-

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

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN

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

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

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

- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT 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.

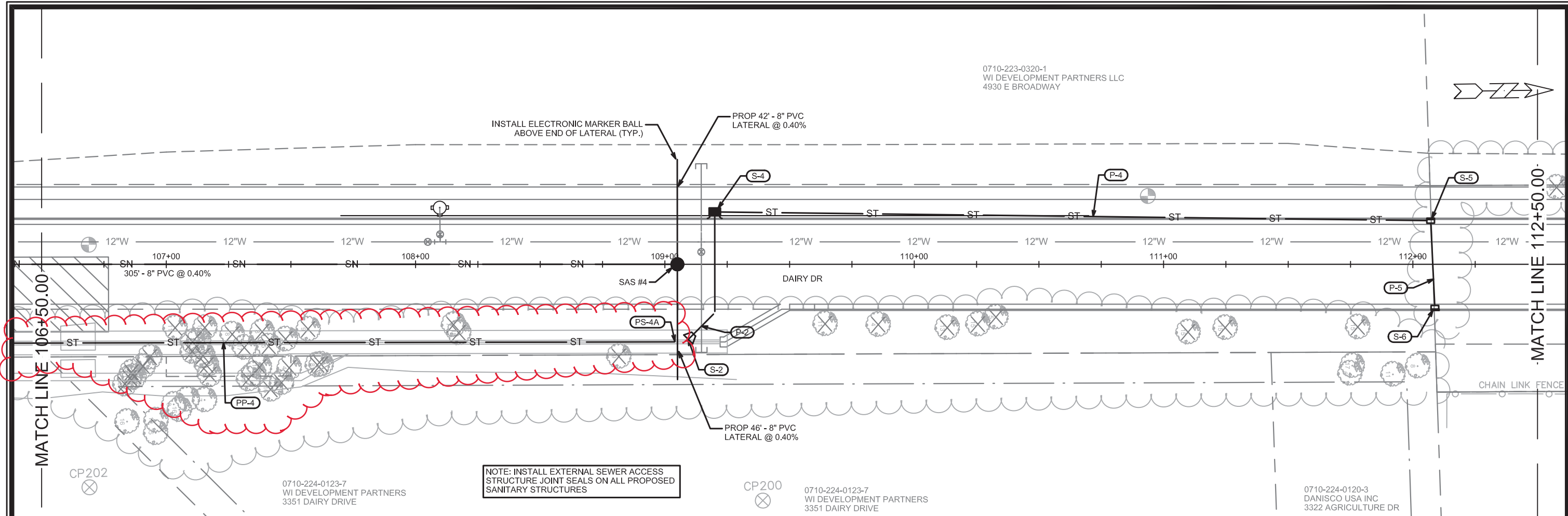
## SPECIFIC NOTES

[1] TOP OF CASTING ELEVATION SHALL MATCH TOP OF CURB ELEVATION, NOT 0.2' LOWER AS SHOWN IN S.D.D. 5.7.12B

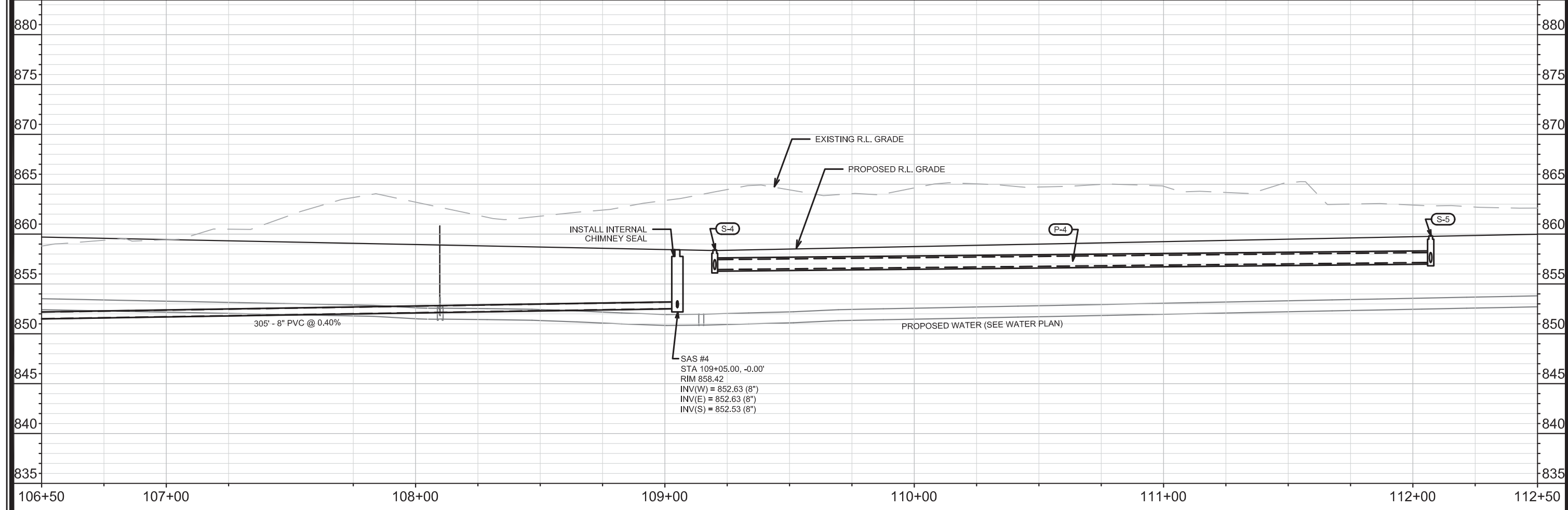
[2] STRUCTURE TO BE BUILT PER DETAIL SHOWN ON SHEET U-4 AND PAID UNDER BID ITEM 50723 3X3 SAS

[3] REMOVAL OF APRON END IS PAID FOR UNDER BID ITEM 20313 REMOVE INLET

0710-223-0320-1  
WI DEVELOPMENT PARTNERS LLC  
4930 E BROADWAY



NOTE: INSTALL EXTERNAL SEWER ACCESS STRUCTURE JOINT SEALS ON ALL PROPOSED SANITARY STRUCTURES



DATE	BY
6/20/2020	KDF
REVISION	
DATE	BY
07/09/2020	KDF
Scale: 1" = 40'	
11865	U-2

11865  
MADISON, WI  
CONTRACT NO: 8294

UTILITY PLAN & PROFILE  
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
CITY OF MADISON

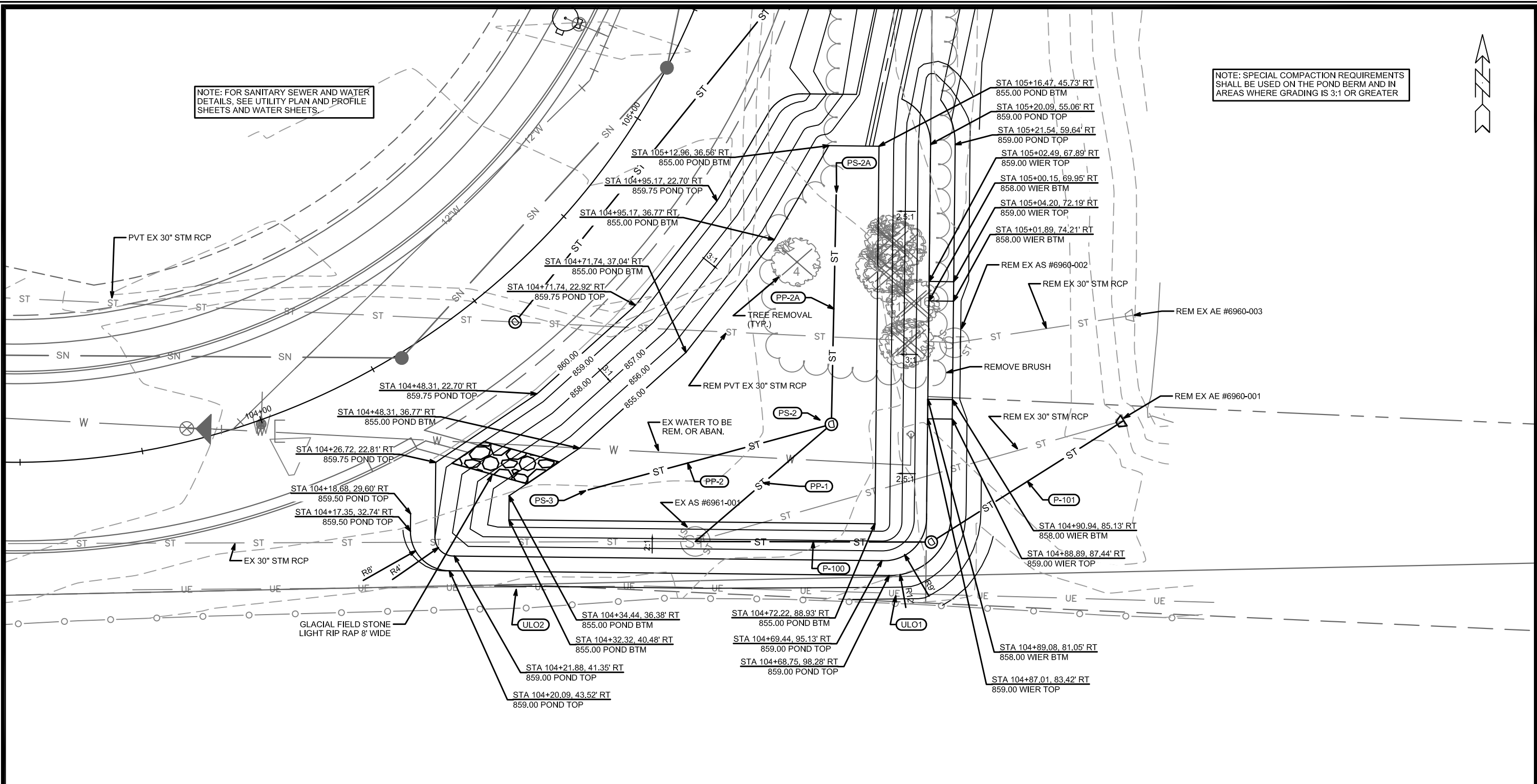


11865  
U-2



NOTE: FOR SANITARY SEWER AND WATER DETAILS, SEE UTILITY PLAN AND PROFILE SHEETS AND WATER SHEETS.

NOTE: SPECIAL COMPACTION REQUIREMENTS SHALL BE USED ON THE POND BERM AND IN AREAS WHERE GRADING IS 3:1 OR GREATER



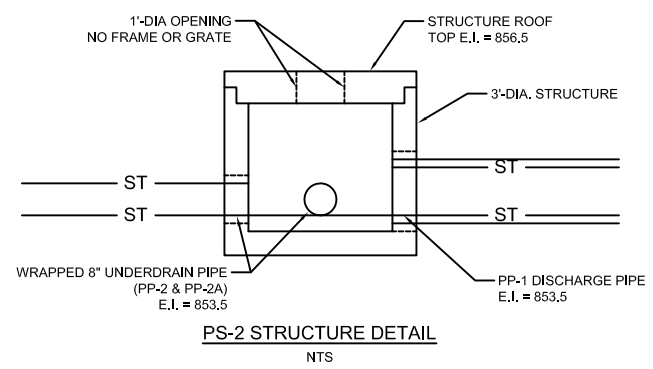
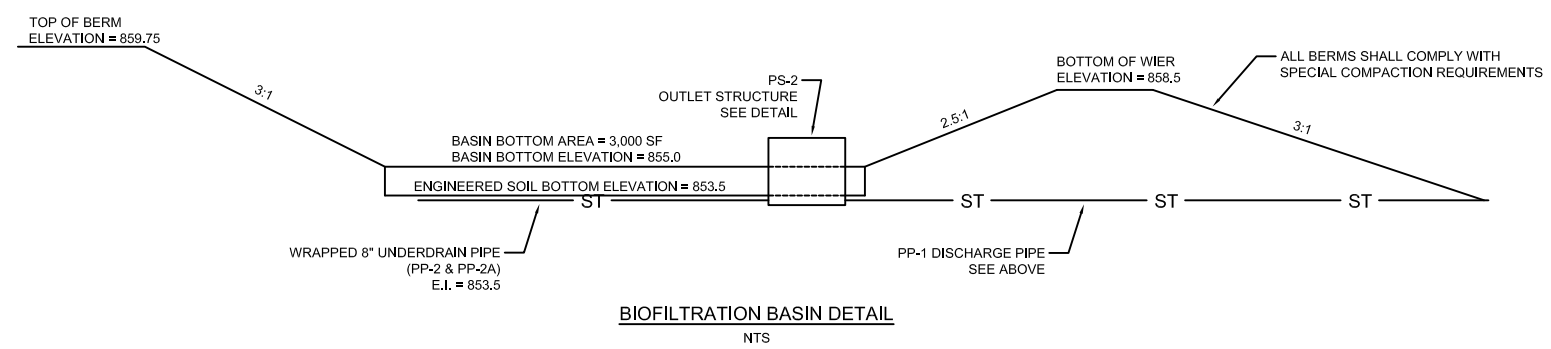
DATE	BY
REVISION	DATE
DESIGNED BY: KDF	DATE: 07/09/2020
SCALE: #####	
11865	U-4

11865  
MADISON, WI  
CONTRACT NO: 8294

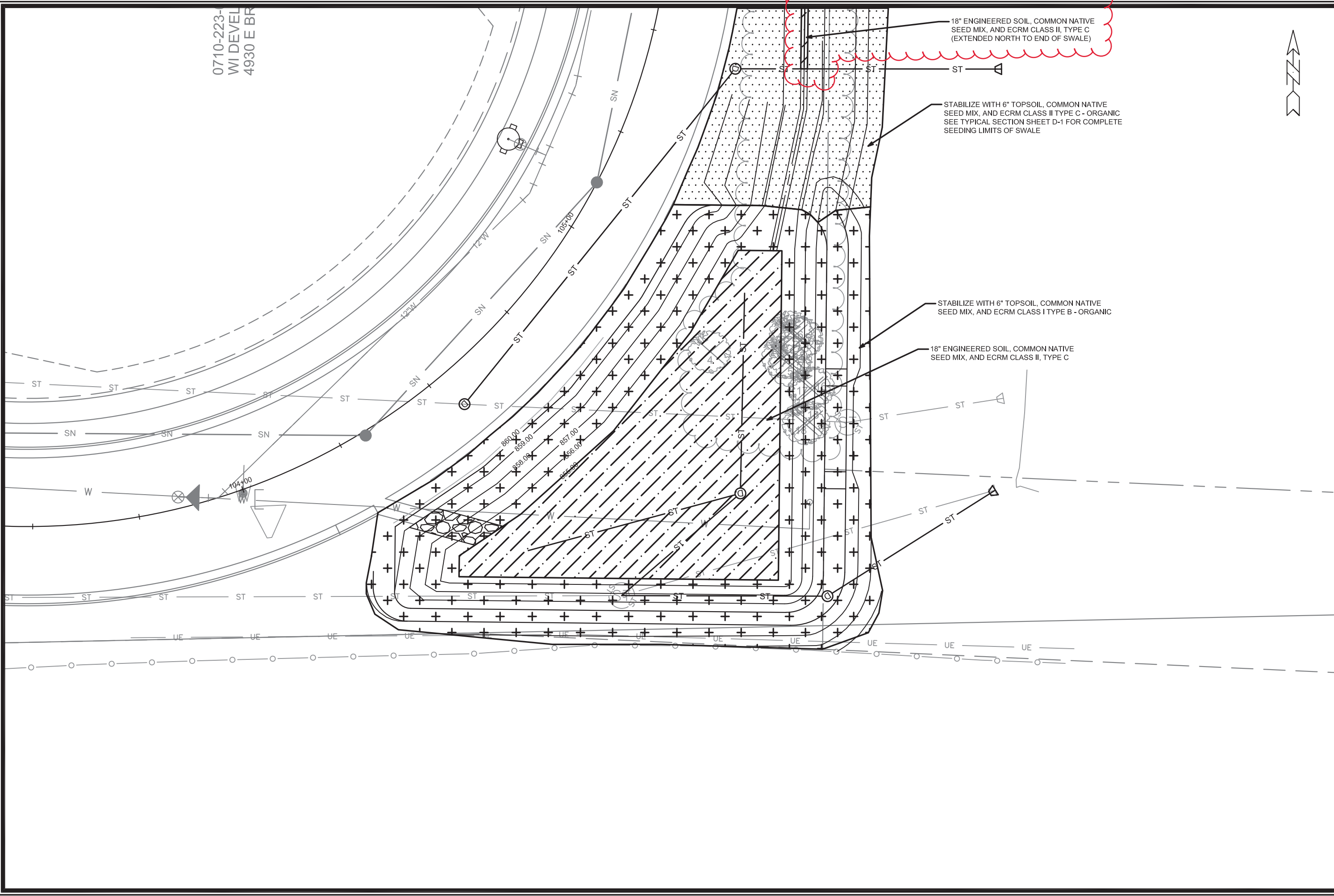
BIOFILTRATION BASIN DETAIL  
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
CITY OF MADISON



11865  
U-4



0710-223-  
WI DEVEL  
4930 E BR



18" ENGINEERED SOIL, COMMON NATIVE SEED MIX, AND ECRM CLASS II, TYPE C (EXTENDED NORTH TO END OF SWALE)

STABILIZE WITH 6" TOPSOIL, COMMON NATIVE SEED MIX, AND ECRM CLASS II TYPE C - ORGANIC SEE TYPICAL SECTION SHEET D-1 FOR COMPLETE SEEDING LIMITS OF SWALE

STABILIZE WITH 6" TOPSOIL, COMMON NATIVE SEED MIX, AND ECRM CLASS I TYPE B - ORGANIC

18" ENGINEERED SOIL, COMMON NATIVE SEED MIX, AND ECRM CLASS II, TYPE C

MARK	SWALE REVISION	DATE	BY
1	REVISION	6/20/2020	KDF
DESIGNED BY:	KDF	DATE:	07/09/2020
SCALE:	#####		
11865			U-5

11865  
MADISON, WI  
8294  
CONTRACT NO:  
BIOFILTRATION BASIN RESTORATION PLAN  
DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
CITY OF MADISON



11865  
U-5

# SANITARY SEWER SCHEDULE

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>DAIRY DRIVE</b>						
SAS #1	104+31.24	RT-1.00	860.77	850.34	10.43	[2]
SAS #2	105+11.94	CL	860.39	850.76	9.63	[2]
SAS #3	106+00.00	CL	859.95	851.21	8.74	[2]
SAS #4	109+05.00	CL	858.42	852.53	5.89	[1], [2]
SAS #10	116+72.19	CL	862.08	851.79	10.29	[2]
SAS #11	114+58.19	CL	861.02	852.75	8.27	[2]

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>DAIRY DRIVE</b>								
EX SAS #6860-008	SAS #1	849.80	850.34	136	0.40%	8"	SDR-35	-
SAS #1	SAS #2	850.44	850.76	80	0.40%	8"	SDR-35	-
SAS #2	SAS #3	850.86	851.21	87	0.40%	8"	SDR-35	-
SAS #3	SAS #4	851.31	852.53	305	0.40%	8"	SDR-35	-
EX SAS #6959-001	SAS #10	851.57	851.79	55	0.40%	8"	SDR-35	-
SAS #10	SAS #11	851.89	852.75	214	0.40%	8"	SDR-35	-

## SANITARY PIPES REMOVALS & ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>DAIRY DRIVE</b>						
EX SAS #6860-008	EX PLG #6860-015	40	8"	VCP	N	-

## SPECIFIC NOTES

- [1] INSTALL INTERNAL CHIMNEY SEAL PER S.D.D. 5.7.17
- [2] INSTALL EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL



# STORM SEWER SCHEDULE

\*REV 6/20/2020 KDF

DAIRY DRIVE  
PROJECT NO. 11865

SHEET NO.  
U-7

STORM SEWER SCHEDULE

CITY OF MADISON

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>DAIRY DRIVE</b>							
* S-1	106+01.64	RT-30.70	12" RCP AE	-	856.00	-	W/GATE
* S-1A	106+25.01	LT-17.50	H INLET	859.88	856.27	3.61	W/R-3067-7004-V
S-2	109+20.02	RT-30.25	12" RCP AE	-	856.20	-	W/GATE
S-3	109+20.00	RT-19.45	STORM BEND	-	856.23	-	45-DEGREE
S-4	109+20.00	LT-21.00	TERRACE INLET 3	858.41	856.44	1.97	[1]
S-5	112+07.14	LT-17.50	H INLET	859.83	857.15	2.68	W/R-3067-7004-V
S-6	112+08.83	RT-17.50	H INLET	859.83	857.31	2.52	W/R-3067-7004-V
S-101	104+75.27	RT-99.93	4X4 SAS	859.00	853.24	5.76	W/R-1550-0054
S-102	105+00.45	RT-116.47	30" RCP AE	-	853.35	-	W/GATE
S-200	105+56.20	RT-81.31	24"X38" HERCP AE	-	853.50	-	W/GATE
S-201	105+46.04	RT-20.68	4X4 SAS	859.14	853.65	5.49	W/R-1550-0054
S-202	104+53.55	RT-8.56	4X4 SAS	860.51	854.40	6.11	W/R-1550-0054
PS-2	104+78.27	RT-68.85	3' DIA SAS	856.50	853.50	3.00	[2]
PS-2A	105+06.77	RT-42.51	PIPE END	-	853.50	-	-
PS-3	104+45.18	RT-44.47	PIPE END	-	853.50	-	-
* PS-4	105+49.39	RT-36.21	TAP	-	854.55	-	-
* PS-4A	109+04.15	RT-36.21	PLUG	-	854.84	-	-

## REMOVE STORM STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>DAIRY DRIVE</b>				
AE #6960-003	105+11.60	RT-107.50	30" RCP AE	[3]
AS #6960-002	104+97.25	RT-79.00	SAS	[3]
AE #6960-001	105+00.50	RT-116.50	30" RCP AE	[3]

## STORM SEWER ULOs (5 ADDITIONAL INDISTRIBUTED ULOs INCLUDED)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
<b>DAIRY DRIVE</b>					
ULO1	104+67.75	RT-101.80	ELECTRIC	-	-
ULO2	104+28.00	RT-53.00	ELECTRIC	-	-
ULO3	116+92.25	LT-39.00	TELE	-	-
ULO4	116+99.00	CL	ELECTRIC	-	-

## SPECIFIC NOTES

- [1] TOP OF CASTING ELEVATION SHALL MATCH TOP OF CURB ELEVATION, NOT 0.2' LOWER AS SHOWN IN S.D.D. 5.7.12B  
 [2] STRUCTURE TO BE BUILT PER DETAIL SHOWN ON SHEET U-4 AND PAID UNDER BID ITEM 50723 3X3 SAS  
 [3] REMOVAL OF APRON END IS PAID FOR UNDER BID ITEM 20313 REMOVE INLET

## 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
<b>DAIRY DRIVE</b>										
* P-1	S-1	S-1A	856.00	856.27	53.5	51.2	0.53%	12"	RCP	-
P-2	S-2	S-3	856.15	856.23	15	14.4	0.55%	12"	PRESSURE	-
P-3	S-3	S-4	856.23	856.44	40.5	38.8	0.55%	12"	PRESSURE	-
P-4	S-4	S-5	856.44	857.15	287	285.3	0.25%	12"	RCP	-
P-5	S-5	S-6	857.15	857.31	35	32	0.50%	12"	RCP	-
P-100	AS #6961-001	S-101	853.14	853.24	48	43.59	0.25%	30"	RCP	TAP EX STRUCT.
P-101	S-101	S-102	853.24	853.35	46.5	42.8	0.25%	30"	RCP	-
P-200	S-200	S-201	853.50	853.65	62	58.51	0.25%	24"x38"	RCP	-
P-201	S-201	S-202	853.65	854.40	100.5	96.37	0.78%	24"x38"	RCP	-
PP-1	AS #6961-001	PS-2	853.34	853.50	36.5	32.3	0.50%	12"	RCP	TAP EX STRUCT.
PP-2	PS-2	PS-3	853.50	853.50	51.5	50.05	0.00%	8"	UD	-
PP-2A	PS-2	PS-2A	853.50	853.50	47	45.5	0.00%	8"	UD	-
* PP-4	PS-4	PS-4A	854.55	854.84	362.5	362.4	0.08%	8"	UD	-

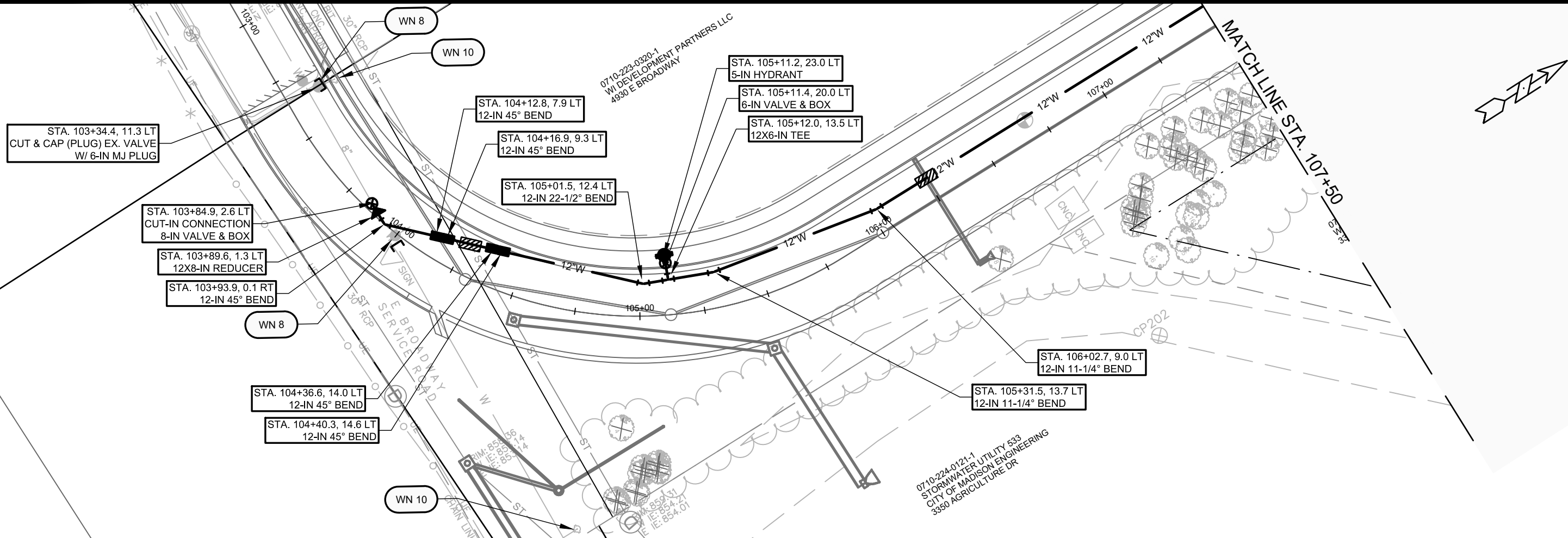
## REMOVE STORM PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>DAIRY DRIVE</b>						
AE #6960-003	AS #6960-002	36	30"	RCP	Y	-
AS #6960-002	S-202	86	30"	RCP	Y	-
AS #6961-001	AE #6960-001	88	30"	RCP	Y	-

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

## STANDARD NOTES:

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



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875

870

865

860

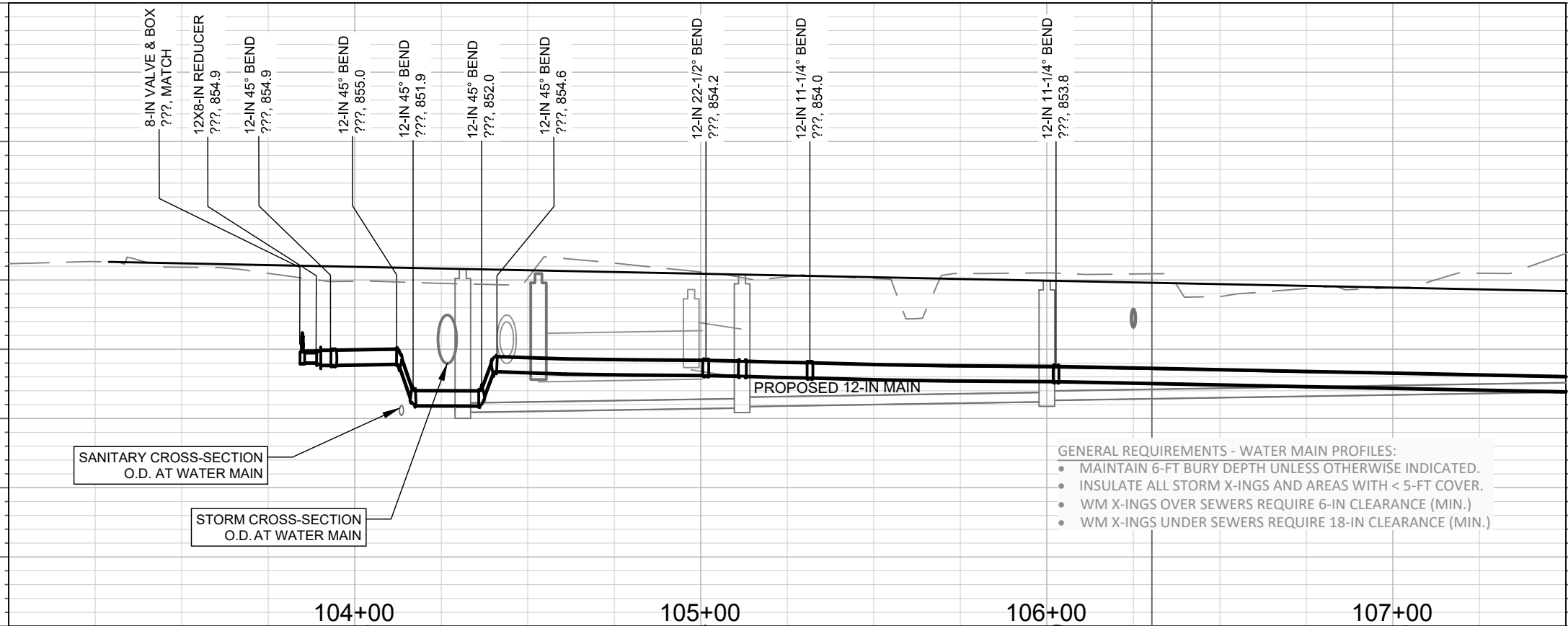
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SANITARY CROSS-SECTION  
O.D. AT WATER MAIN

STORM CROSS-SECTION  
O.D. AT WATER MAIN

- GENERAL REQUIREMENTS - 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.)

T.O.P. 854.95  
T.O.P. 851.99  
T.O.P. 854.37  
T.O.P. 854.24  
T.O.P. 854.17  
T.O.P. 854.03  
T.O.P. 853.89  
T.O.P. 853.76  
T.O.P. 853.69  
T.O.P. 853.59  
T.O.P. 853.49  
T.O.P. 853.35  
T.O.P. 853.25  
T.O.P. 853.12

11865	W-1
11865	1 IN=40 FT
11865	DATE: 01/09/2020
11865	REVISION
11865	MARK
11865	DESIGNED BY: ALZ

11865  
MADISON, WI  
CONTRACT NO: 8294

DAIRY DRIVE  
WATER PLAN & PROFILE - DAIRY DR  
CITY OF MADISON

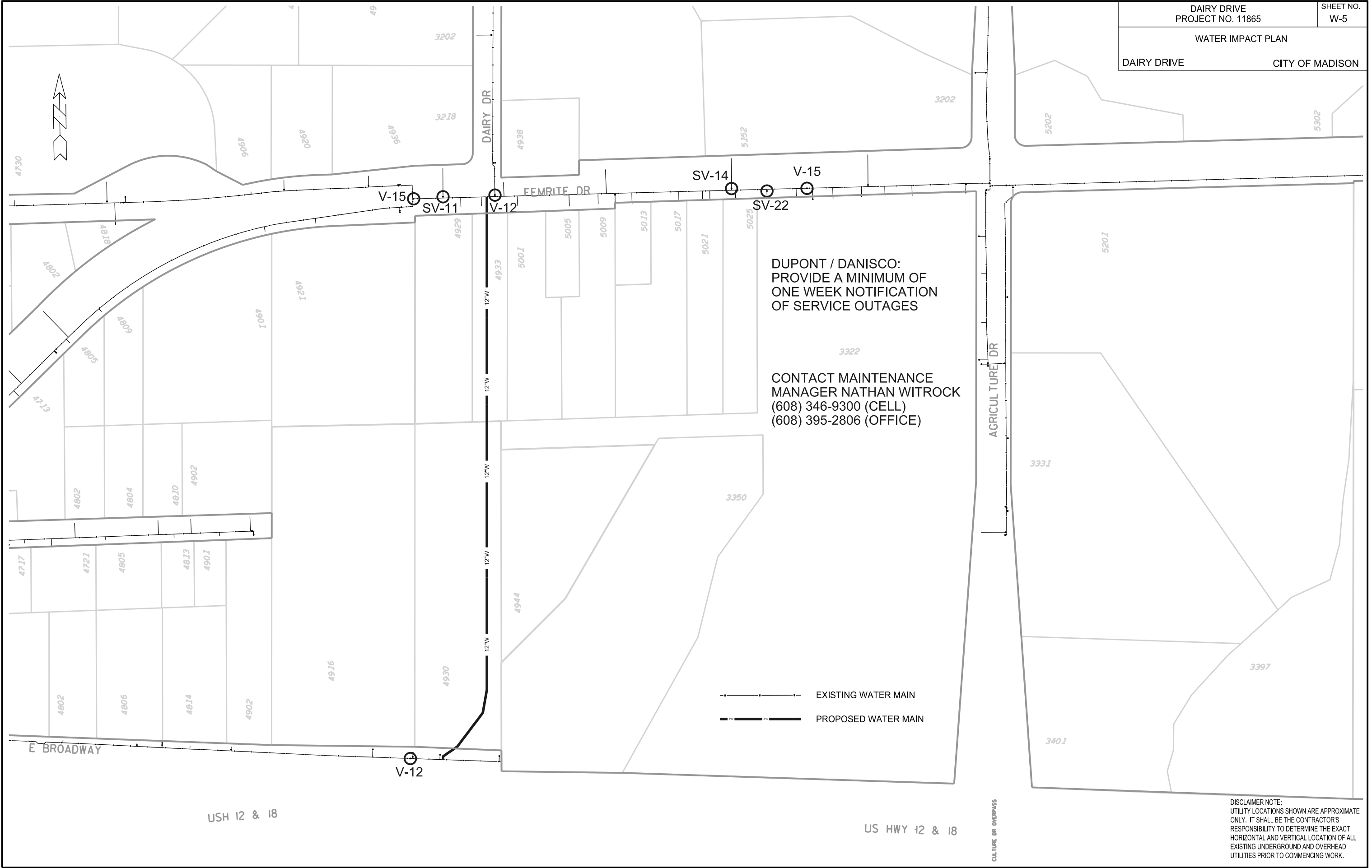


11865  
W-1









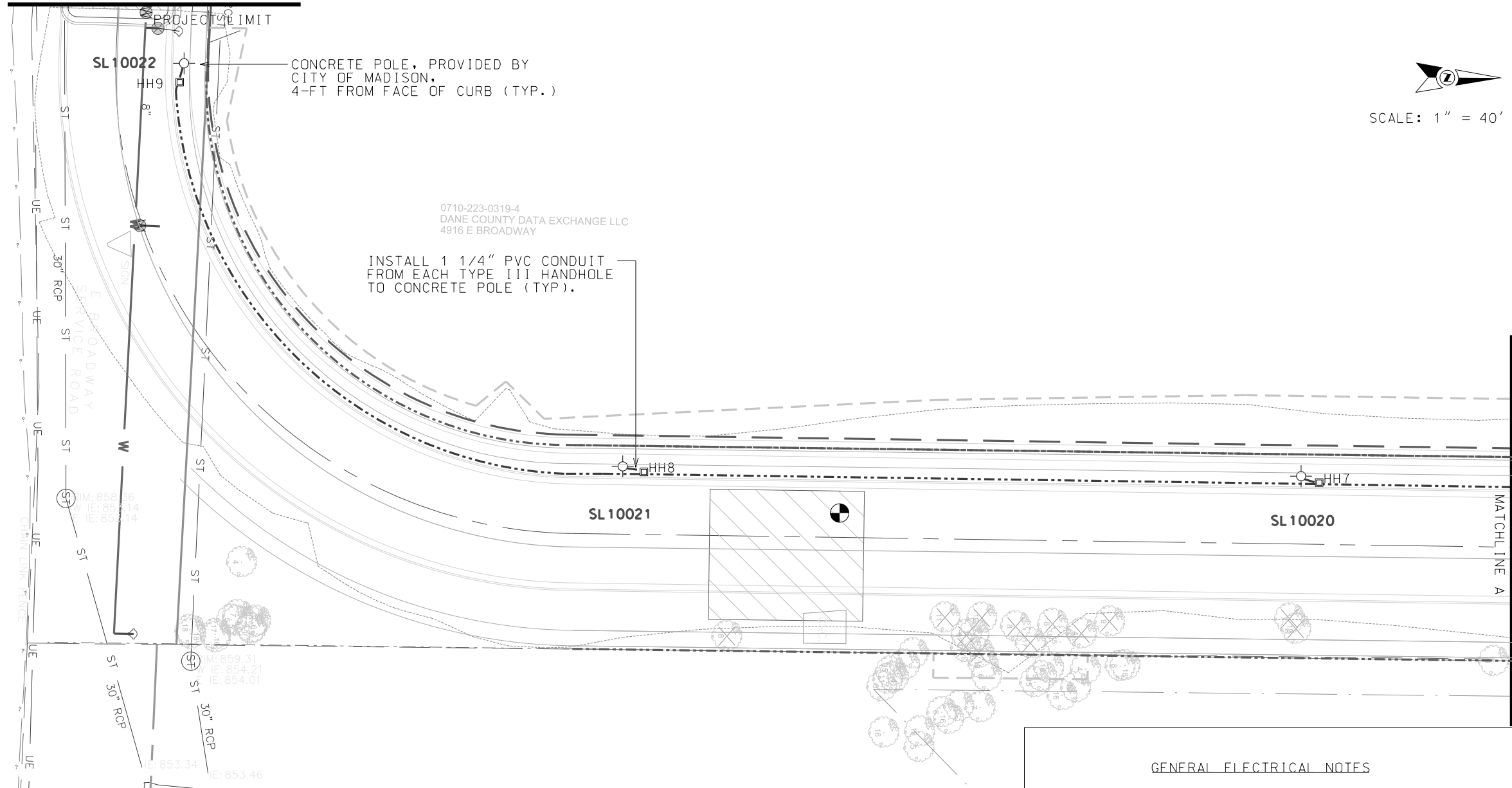
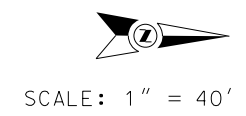
DUPONT / DANISCO:  
PROVIDE A MINIMUM OF  
ONE WEEK NOTIFICATION  
OF SERVICE OUTAGES

CONTACT MAINTENANCE  
MANAGER NATHAN WITROCK  
(608) 346-9300 (CELL)  
(608) 395-2806 (OFFICE)

--- EXISTING WATER MAIN  
— PROPOSED WATER MAIN

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.

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

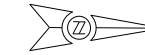


**LEGEND**

	EXISTING LB-3 STREET LIGHT BASE
	INSTALL CONCRETE POLE (PROVIDED BY CITY)
	INSTALL TYPE I HANDHOLE
	INSTALL TYPE III HANDHOLE
	INSTALL (1) - 2" PVC CONDUIT, SCHEDULE 40 (UNLESS OTHERWISE NOTED)

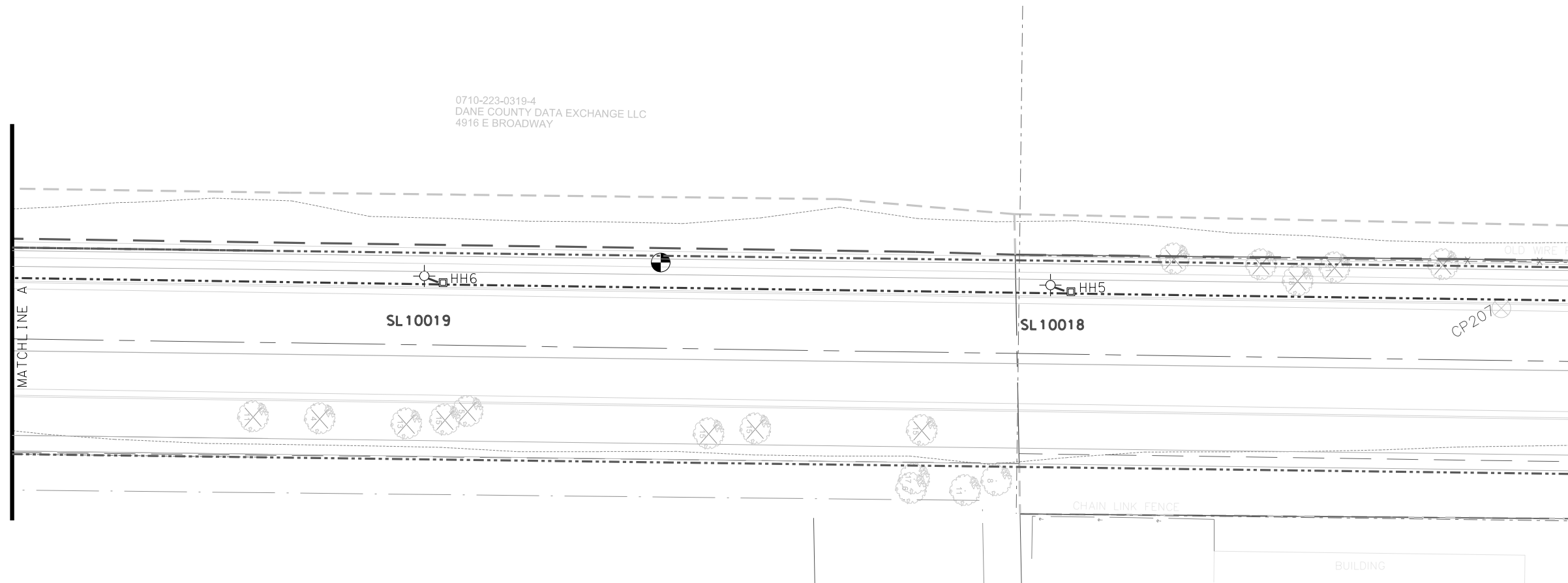
- GENERAL ELECTRICAL NOTES**
1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA (267-1969) CITY TRAFFIC ENGINEERING, AT LEAST 24-HRS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
  2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2020 EDITION" AND ALL ADDENDUMS THERETO, ALL CONDUIT SHALL BE PVC, SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE, PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
  3. THE CONTRACTOR SHALL CALL MIKE BENZSCHAWEL (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HRS IN ADVANCE OF INSTALLING CONDUIT, POLES, OR HANDHOLES TO ARRANGE FOR INSPECTION.
  4. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
  5. THE CONTRACTOR SHALL ARRANGE FOR PICK UP OF THE FOLLOWING CITY FURNISHED MATERIALS, WHICH SHOULD BE ARRANGE FOR PICK UP BY CALLING ED SMITH, TRAFFIC ENGINEERING SHOP, 266-9034 1120 SAYLE ST., AT LEAST 24-HRS PRIOR TO NEEDING MATERIALS:  
- 7 CONCRETE STREET LIGHT POLES

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



SCALE: 1" = 40'

0710-223-0319-4  
DANE COUNTY DATA EXCHANGE LLC  
4916 E BROADWAY



LEGEND

- EXISTING LB-3 STREET LIGHT BASE
- INSTALL CONCRETE POLE (PROVIDED BY CITY)
- INSTALL TYPE I HANDHOLE
- INSTALL TYPE III HANDHOLE
- INSTALL (1) - 2" PVC CONDUIT, SCHEDULE 40 (UNLESS OTHERWISE NOTED)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





SCALE: 1" = 40'

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

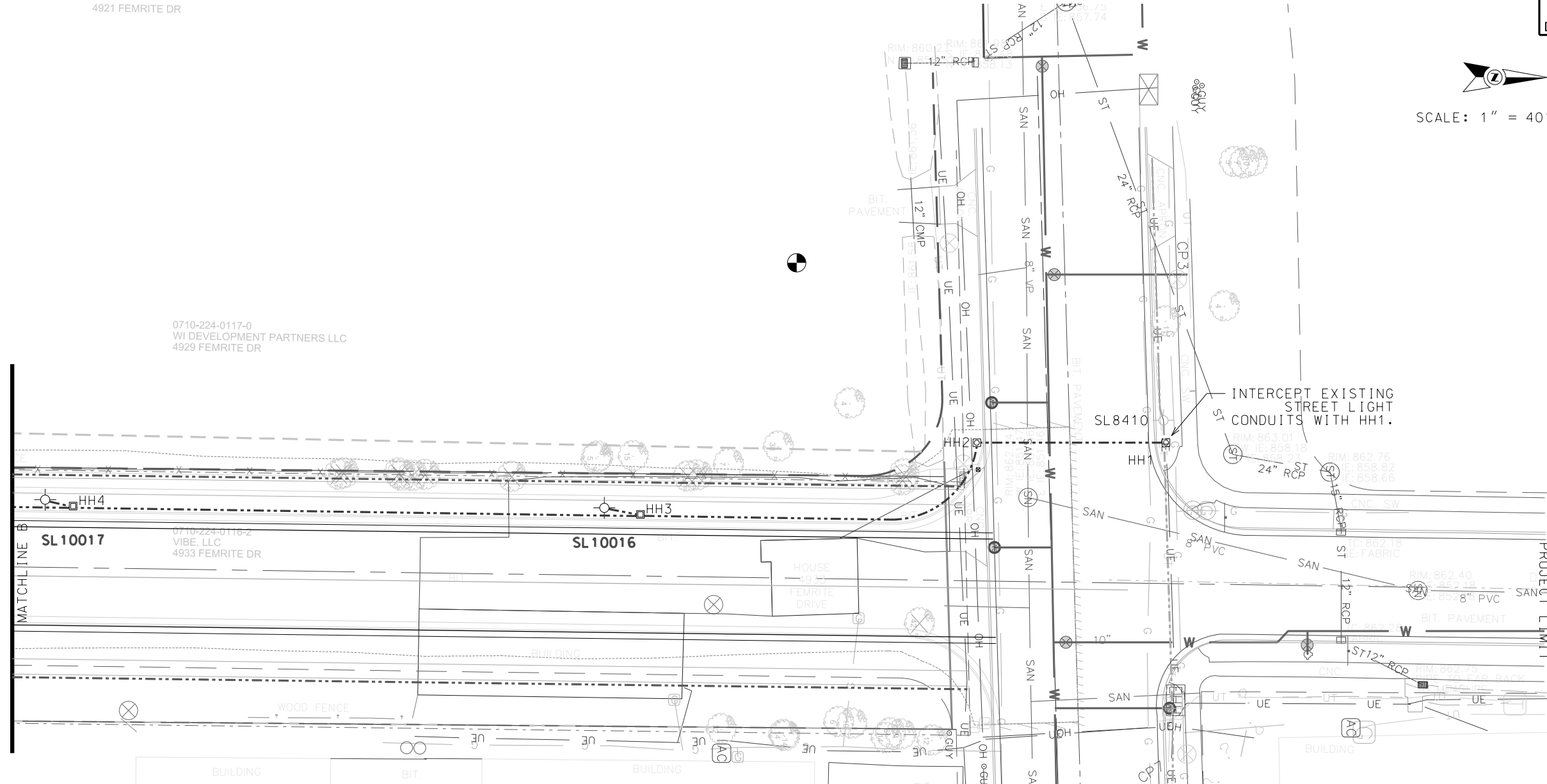
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0710-224-0117-0  
WI DEVELOPMENT PARTNERS LLC  
4929 FEMRITE DR






0710-224-0116-2  
VIBE, LLC  
4933 FEMRITE DR

HOUSE  
4933  
FEMRITE  
DRIVE

INTERCEPT EXISTING  
STREET LIGHT  
CONDUITS WITH HH1.

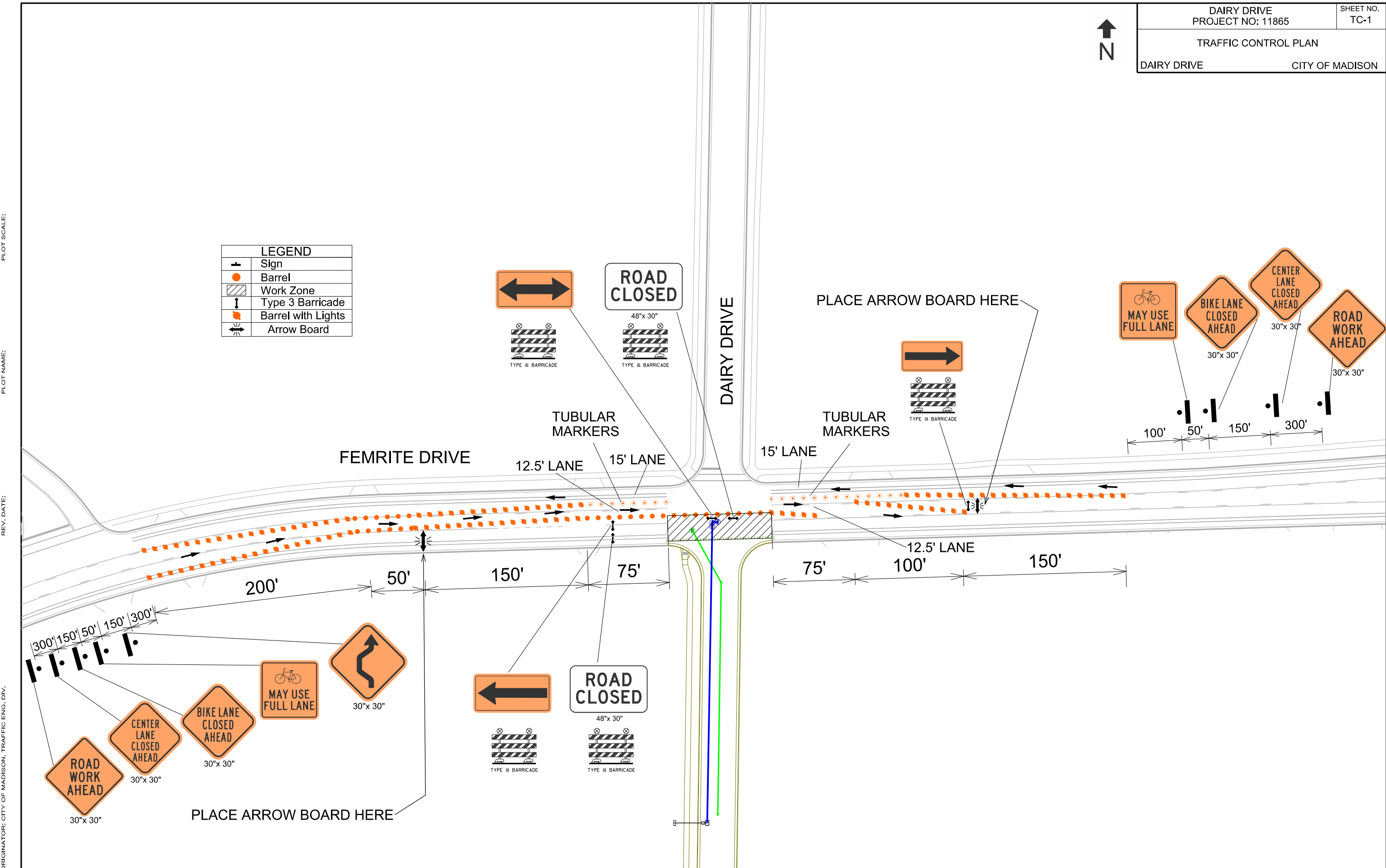


LEGEND

-  EXISTING LB-3 STREET LIGHT BASE
-  INSTALL CONCRETE POLE (PROVIDED BY CITY)
-  INSTALL TYPE I HANDHOLE
-  INSTALL TYPE III HANDHOLE
-  INSTALL (1) - 2" PVC CONDUIT, SCHEDULE 40 (UNLESS OTHERWISE NOTED)



LEGEND	
	Sign
	Barrel
	Work Zone
	Type 3 Barricade
	Barrel with Lights
	Arrow Board

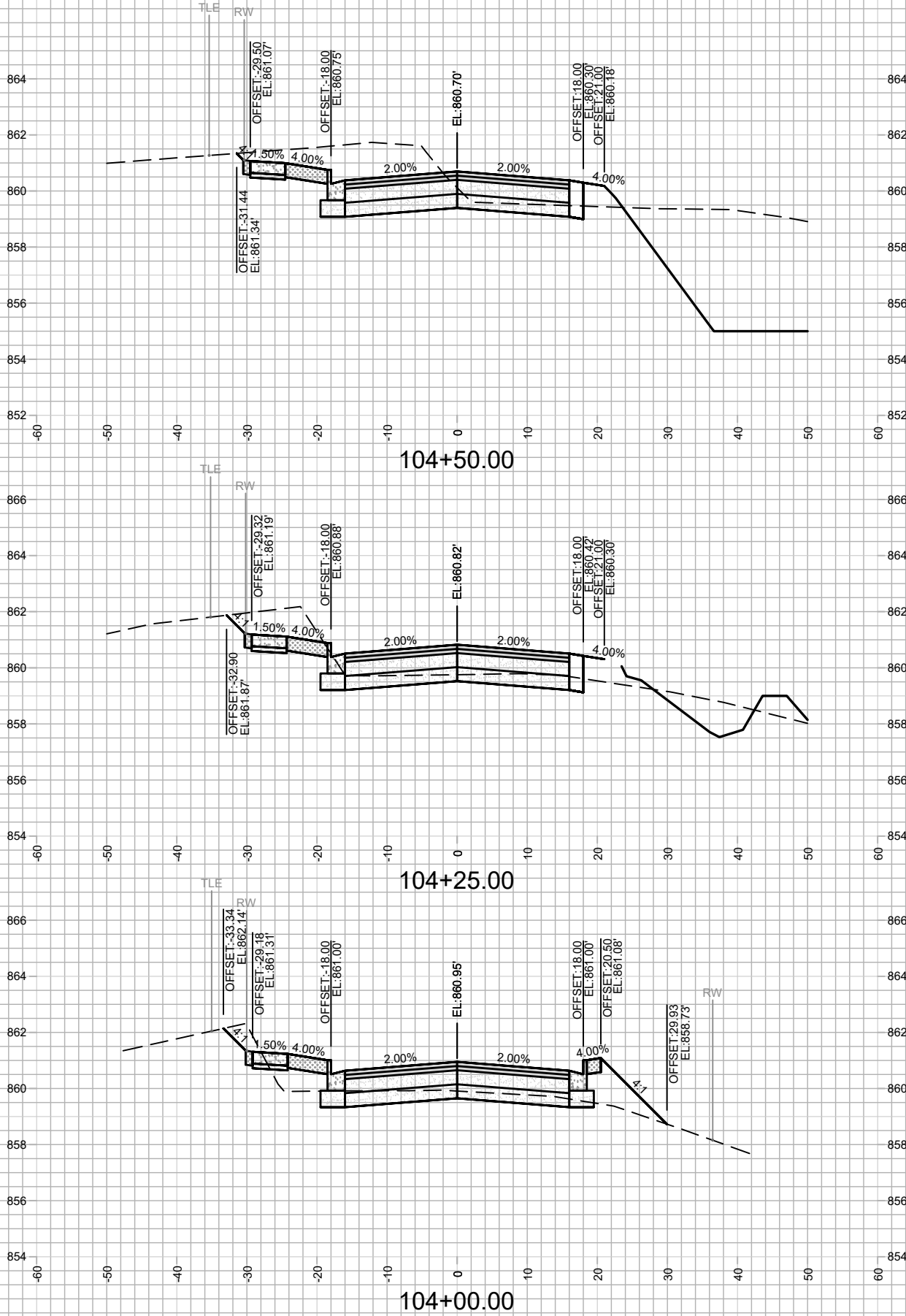
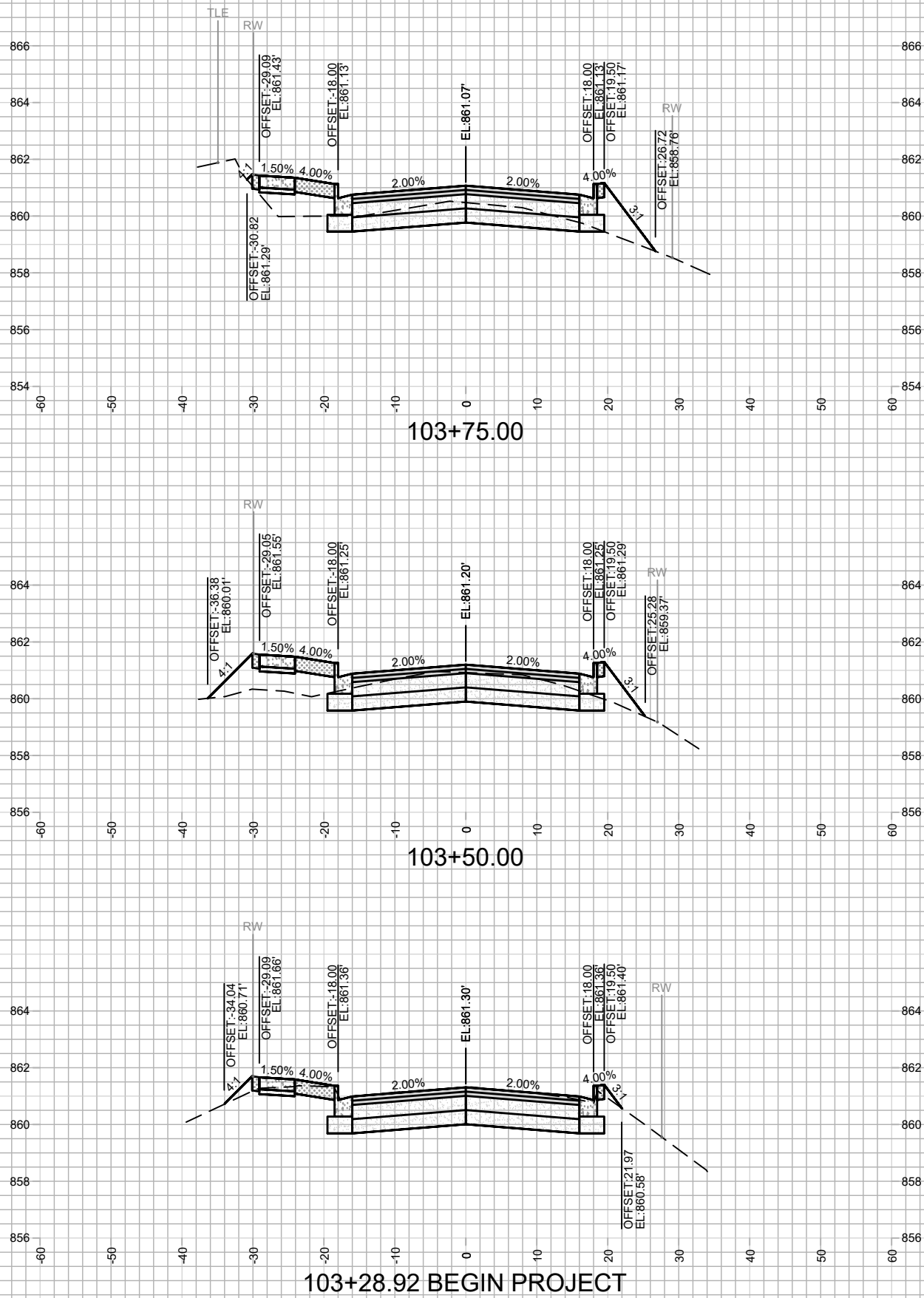


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

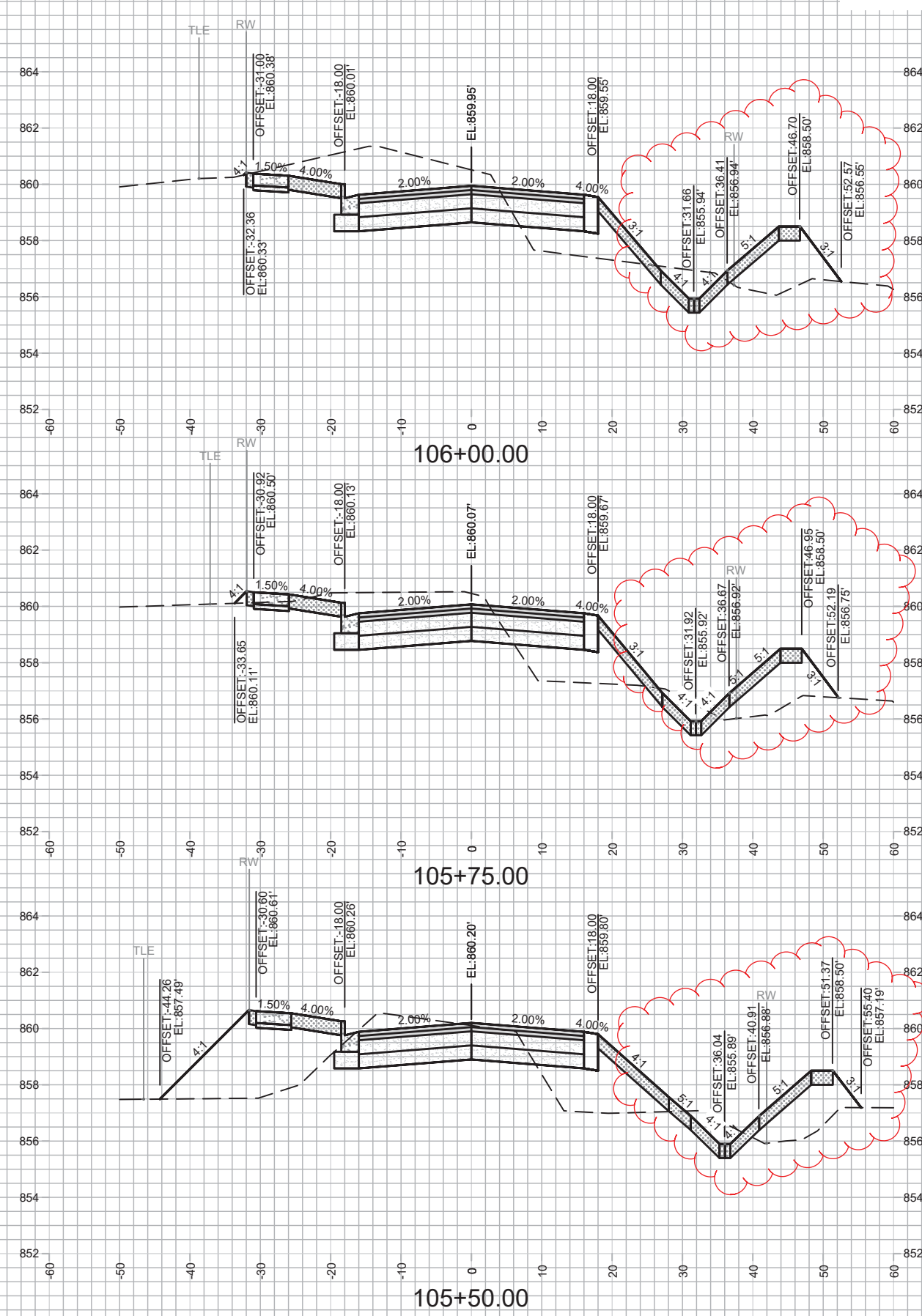
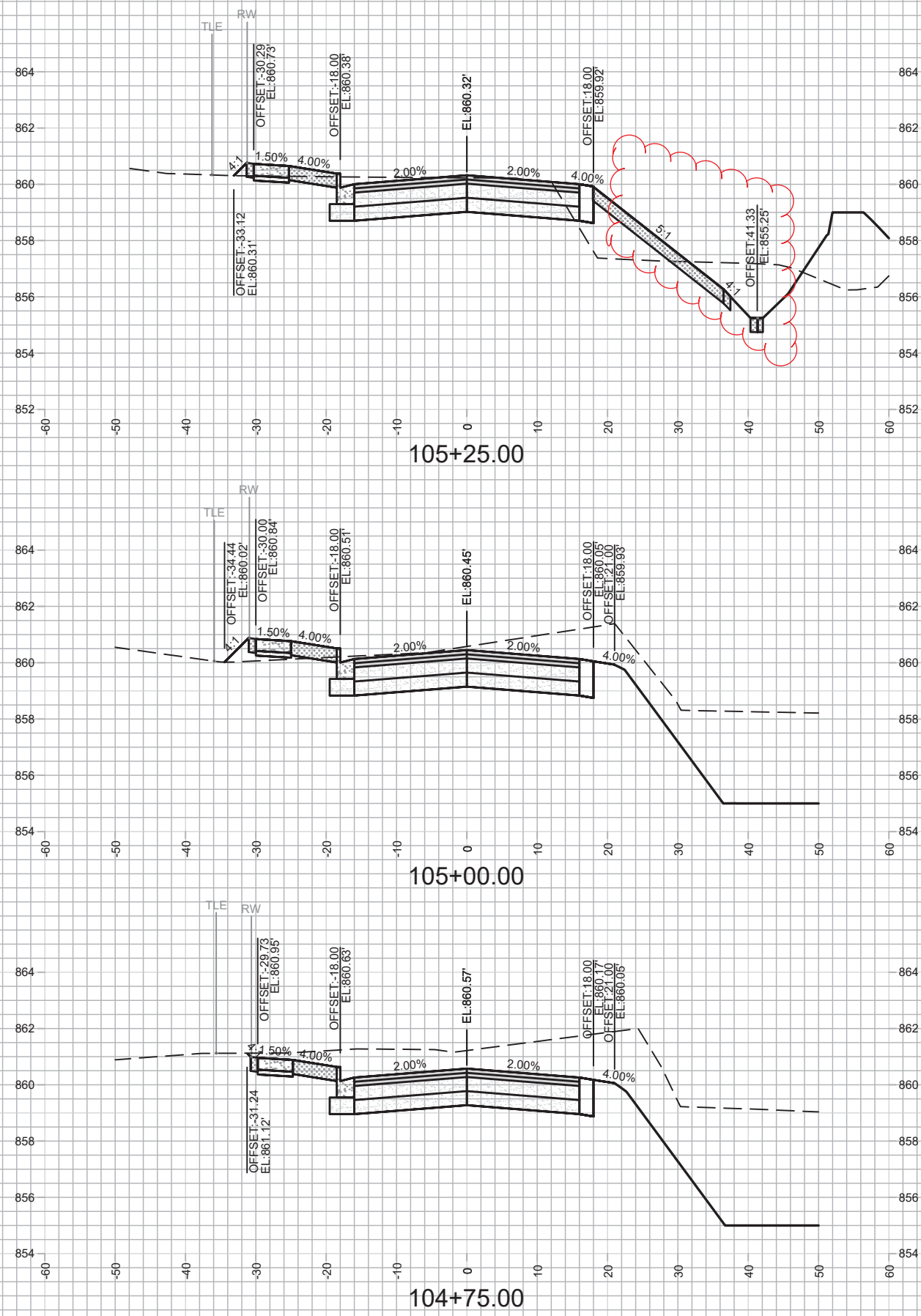


MARK	REVISION	DATE	BY

11865  
 MADISON, WI  
 CONTRACT NO: 8294

CROSS SECTIONS  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
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 X-1

REVISION 6/20/20 AJZ  
 - Revised Swale Grades



MARK	REVISION	DATE	BY

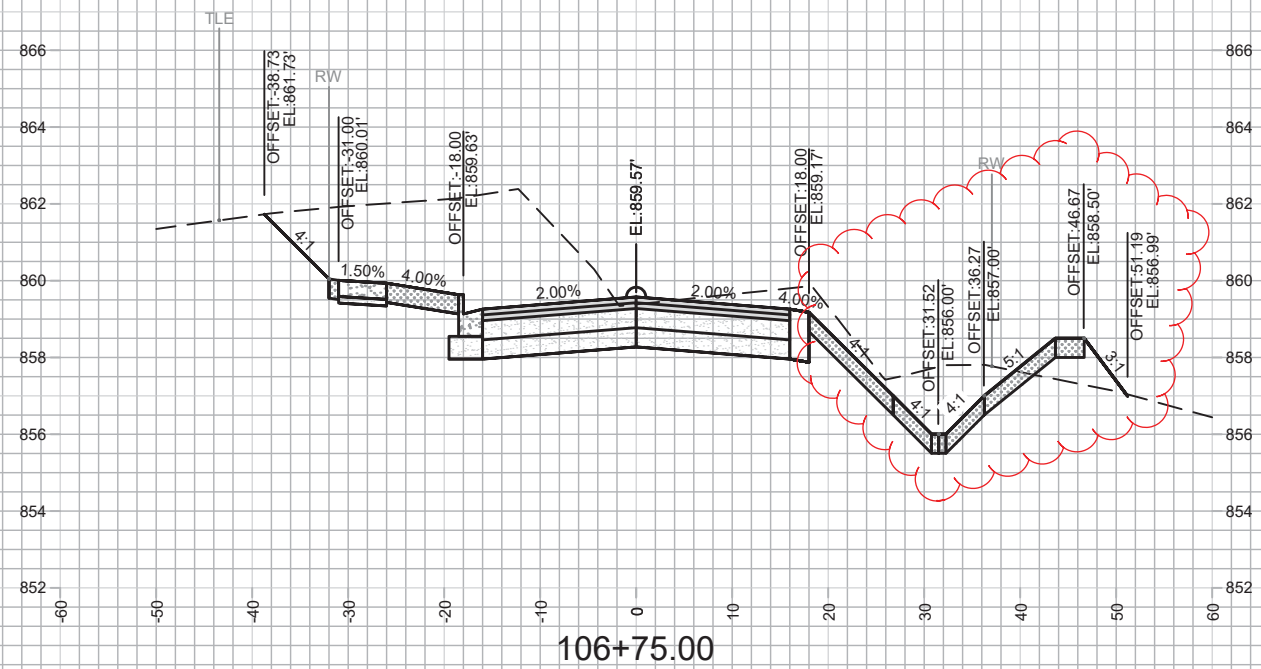
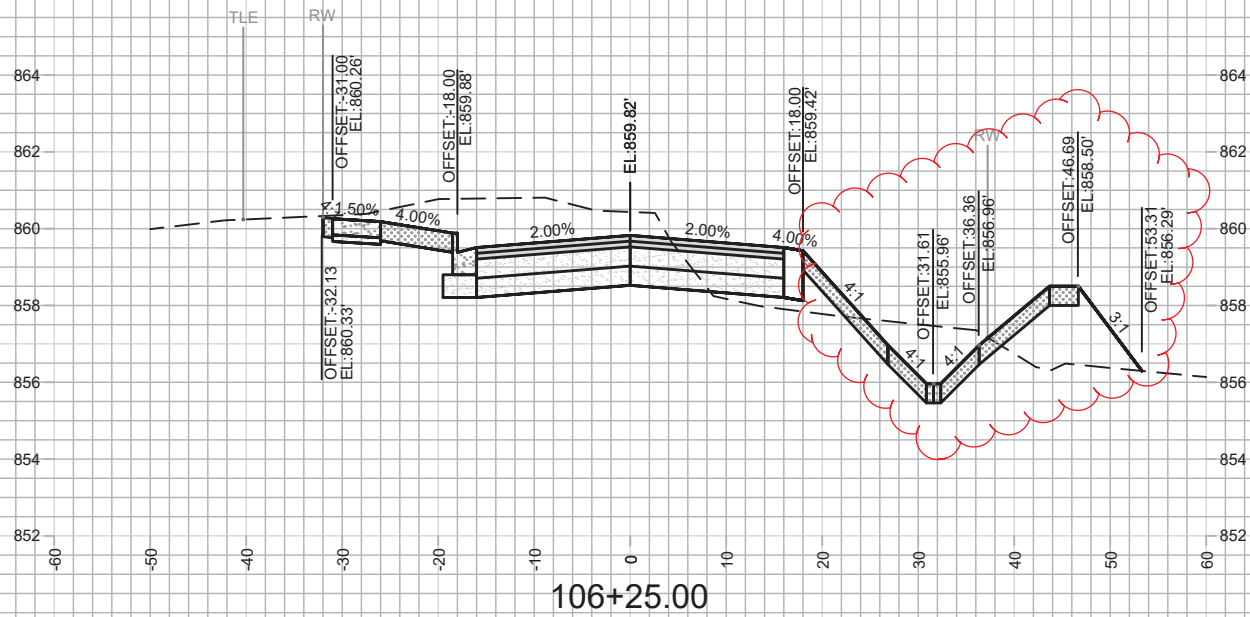
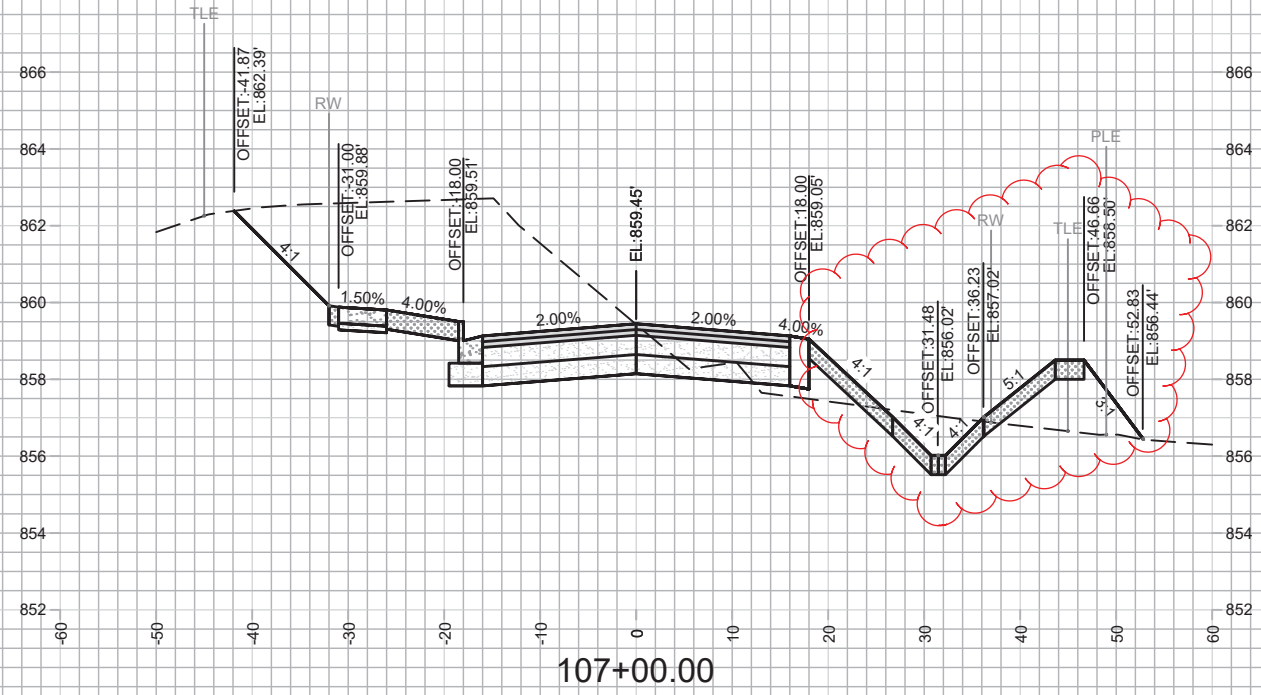
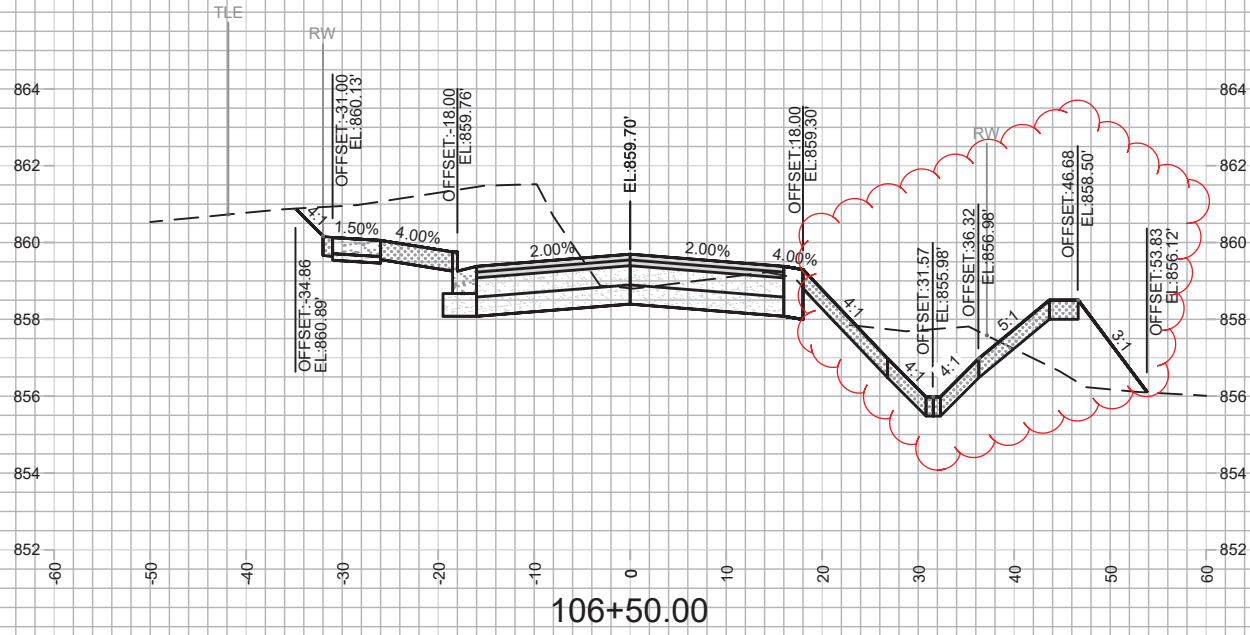
11865  
 MADISON, WI  
 CONTRACT NO: 8294

CROSS SECTIONS  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
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11865  
 X-2

Scale: 1" = 20'  
 X-2



MARK	REVISION	DATE	BY

Designed By: AJZ Date: 6/19/2020 11:26 AM  
 11865 Scale: 1" = 20'

11865  
 MADISON, WI  
 CONTRACT NO: 8294

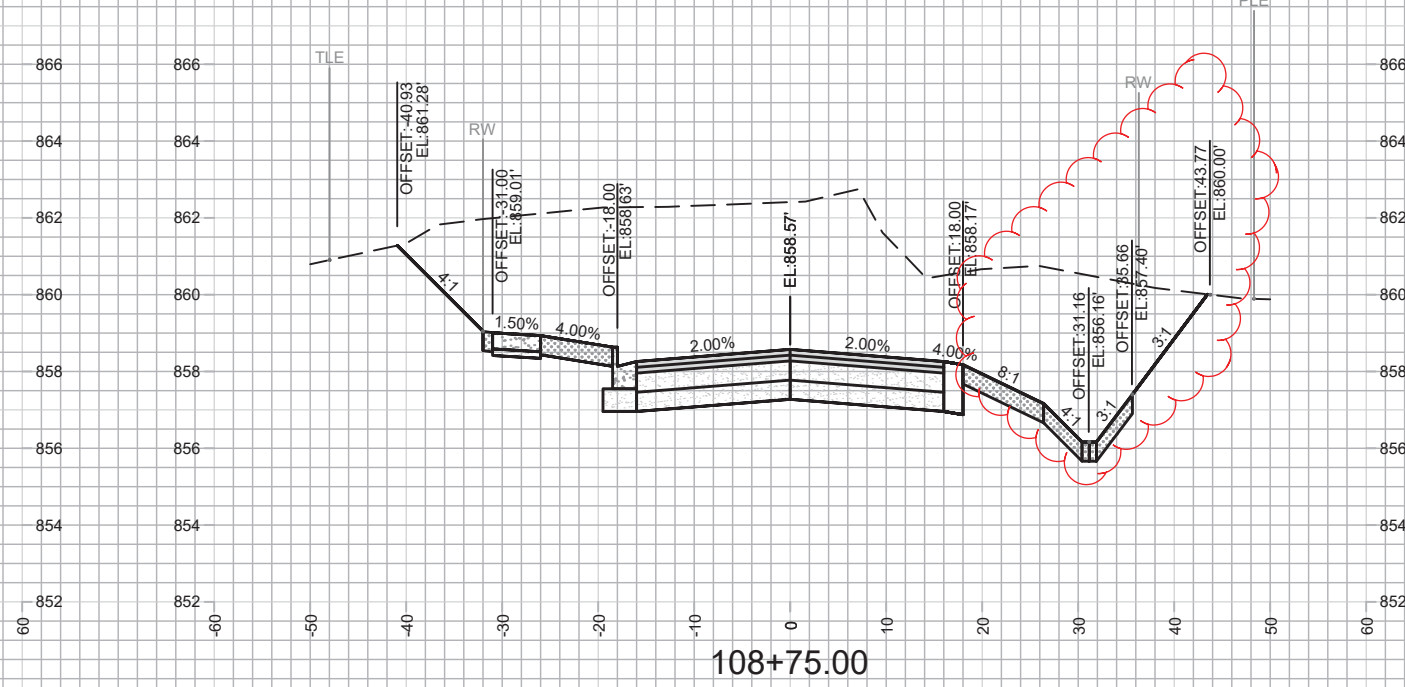
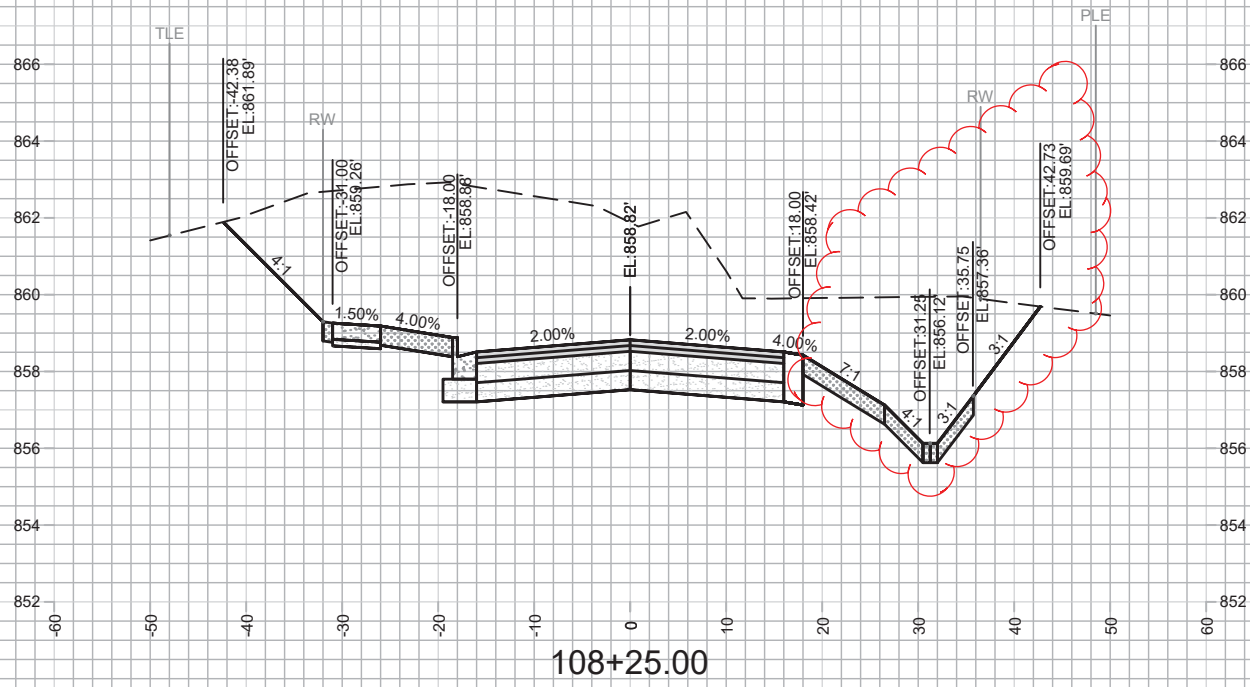
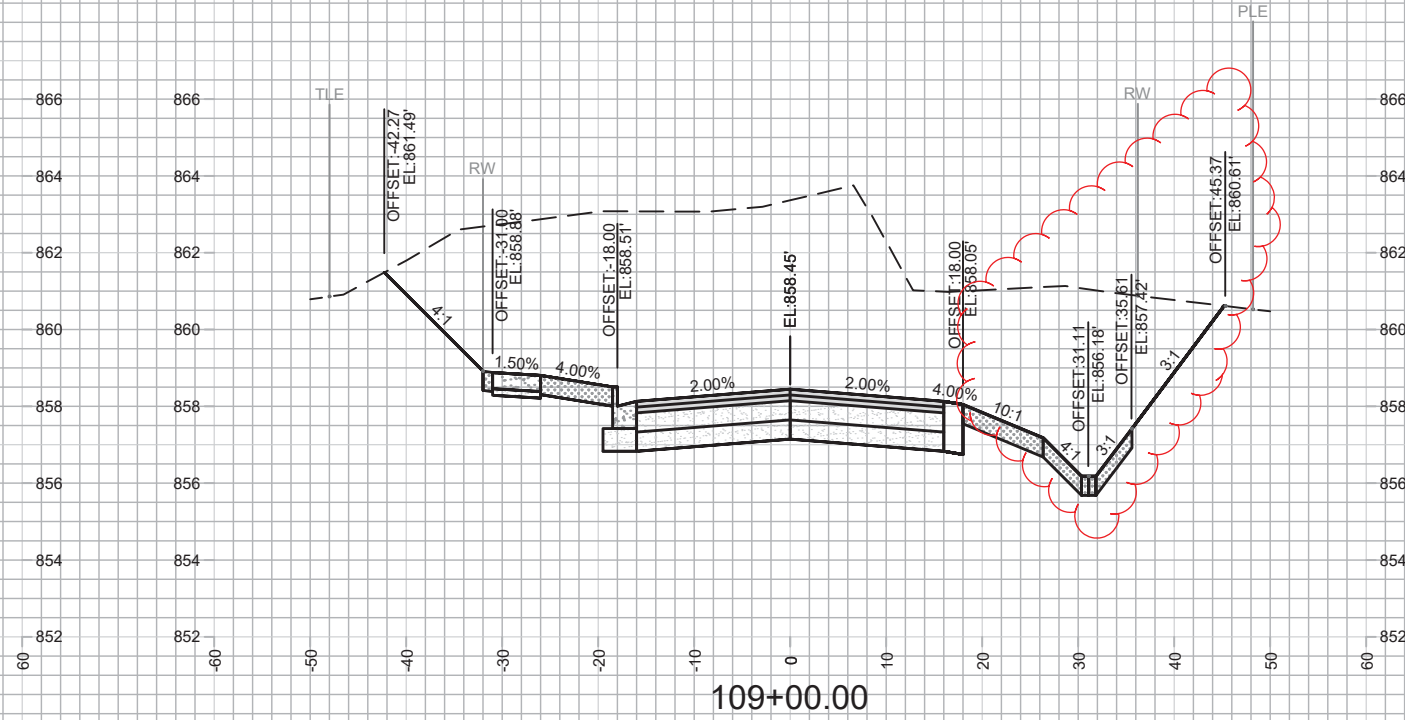
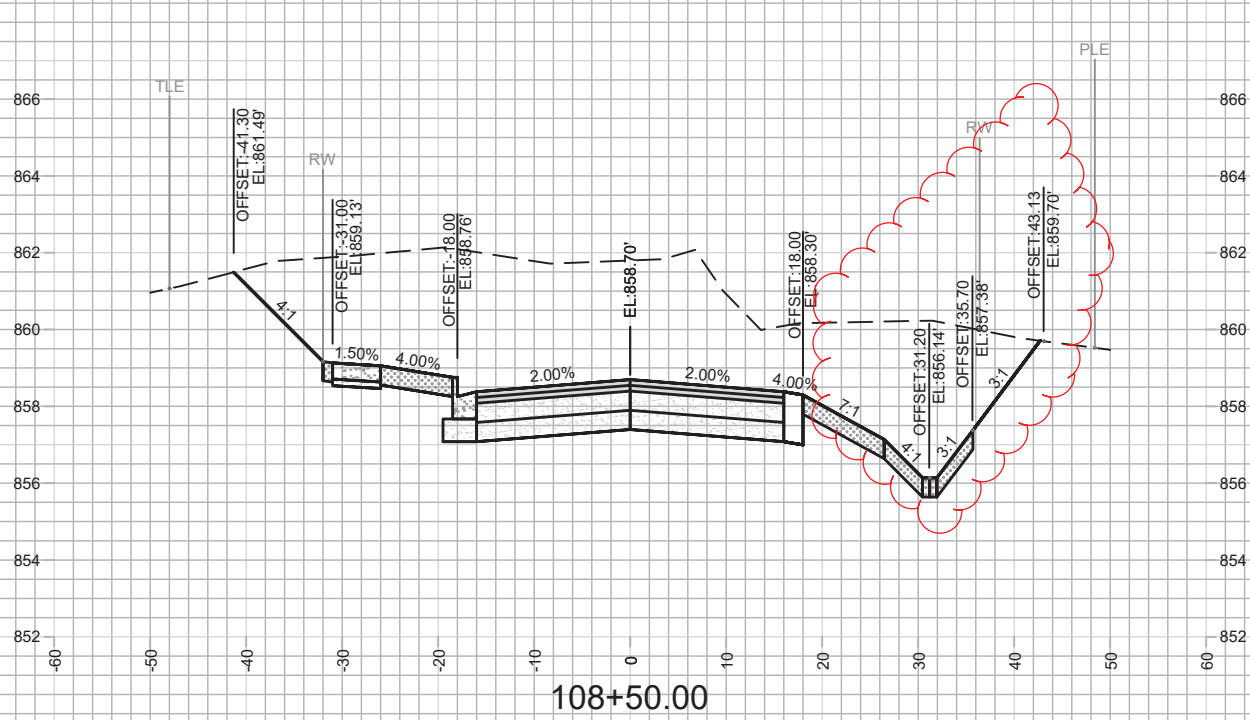
CROSS SECTIONS  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)



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REVISION 6/20/20 AJZ  
 - Revised Swale Grades



MARK	REVISION	DATE	BY

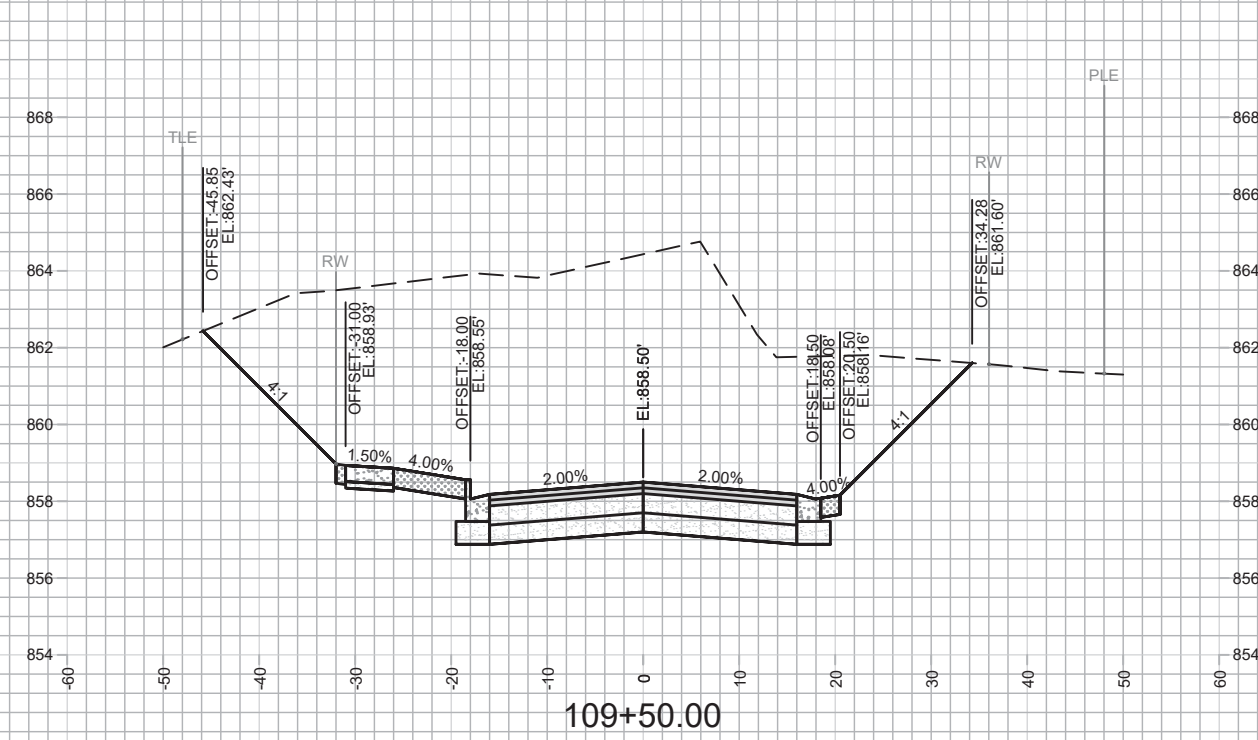
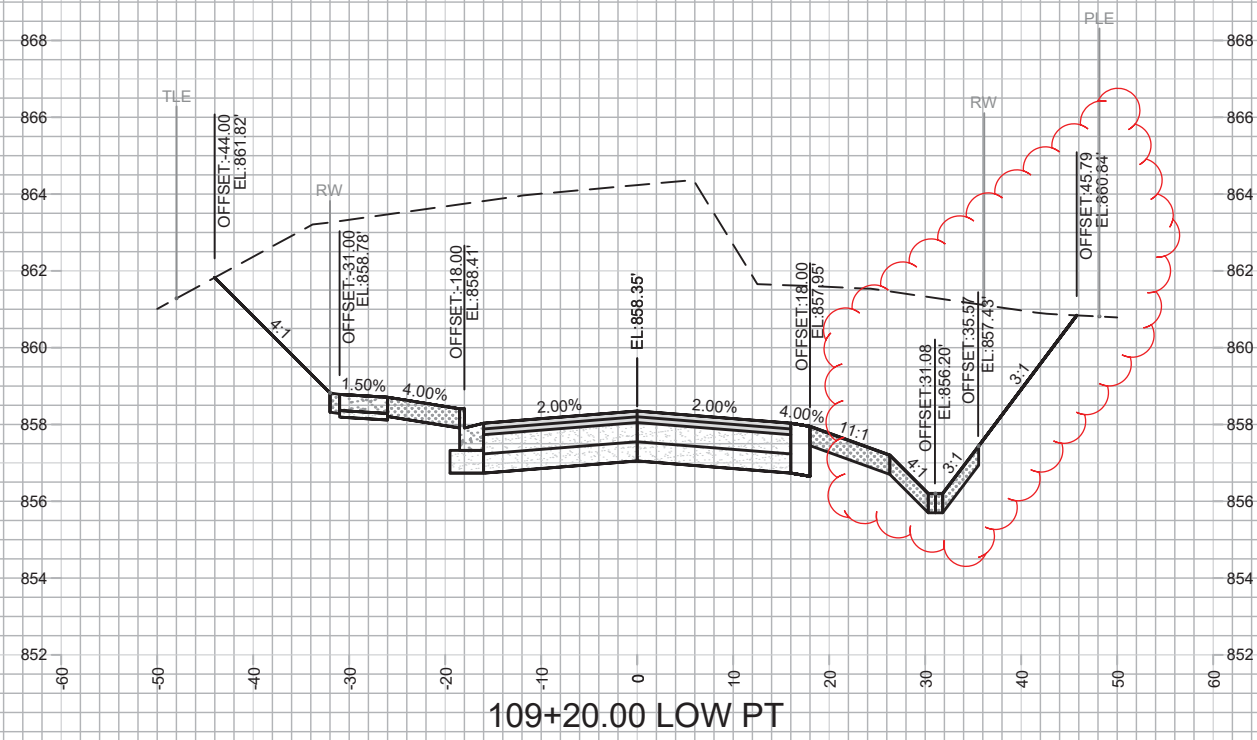
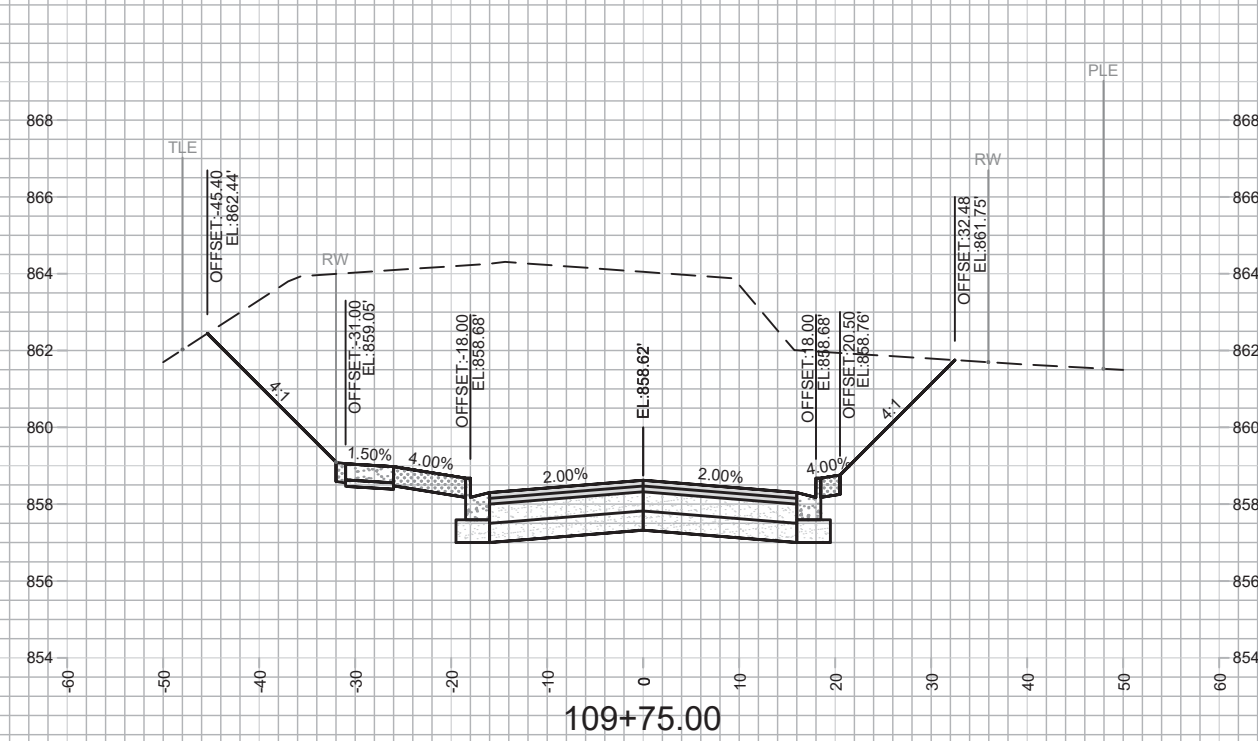
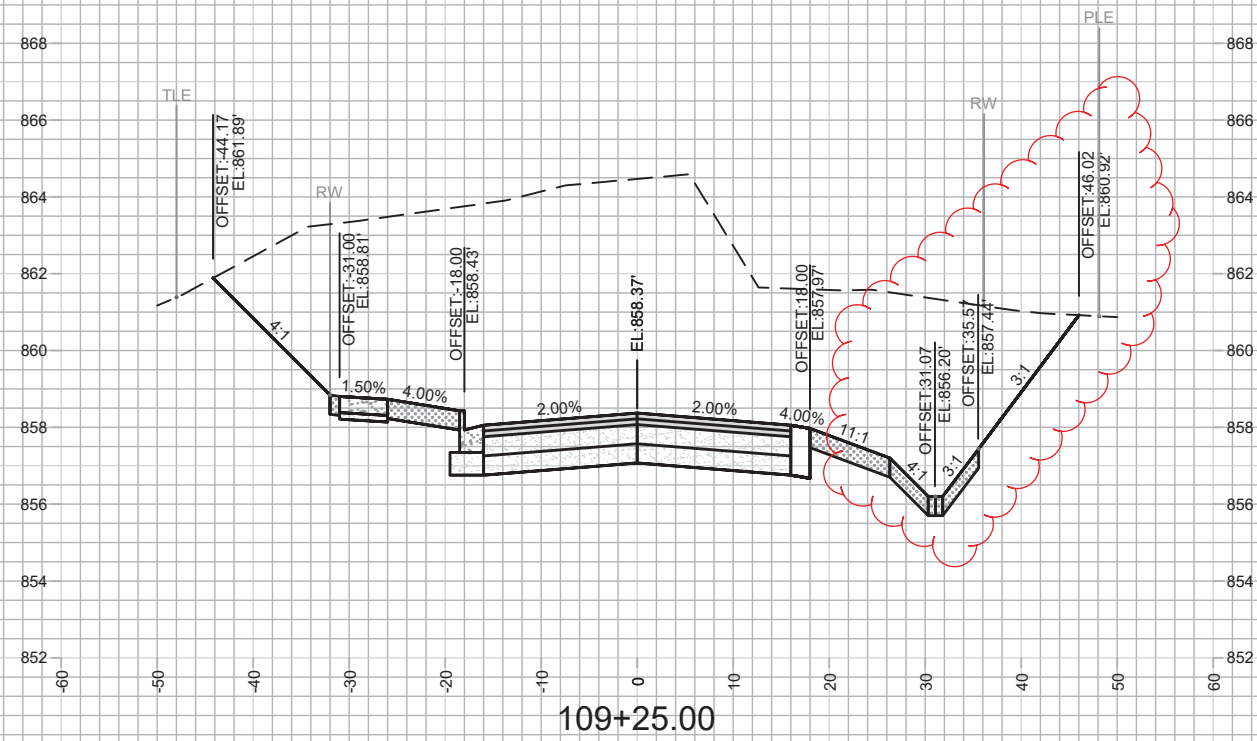
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11865  
 MADISON, WI  
 CONTRACT NO: 8294

CROSS SECTIONS  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
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REVISION 6/20/20 AJZ  
 - Revised Swale Grades



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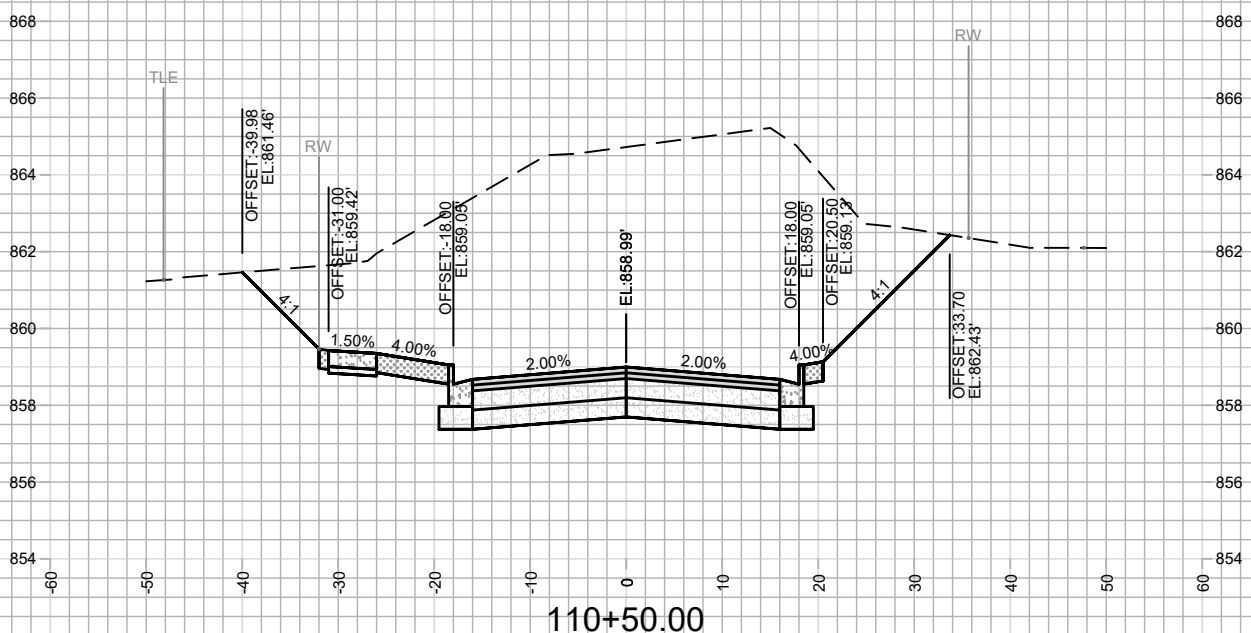
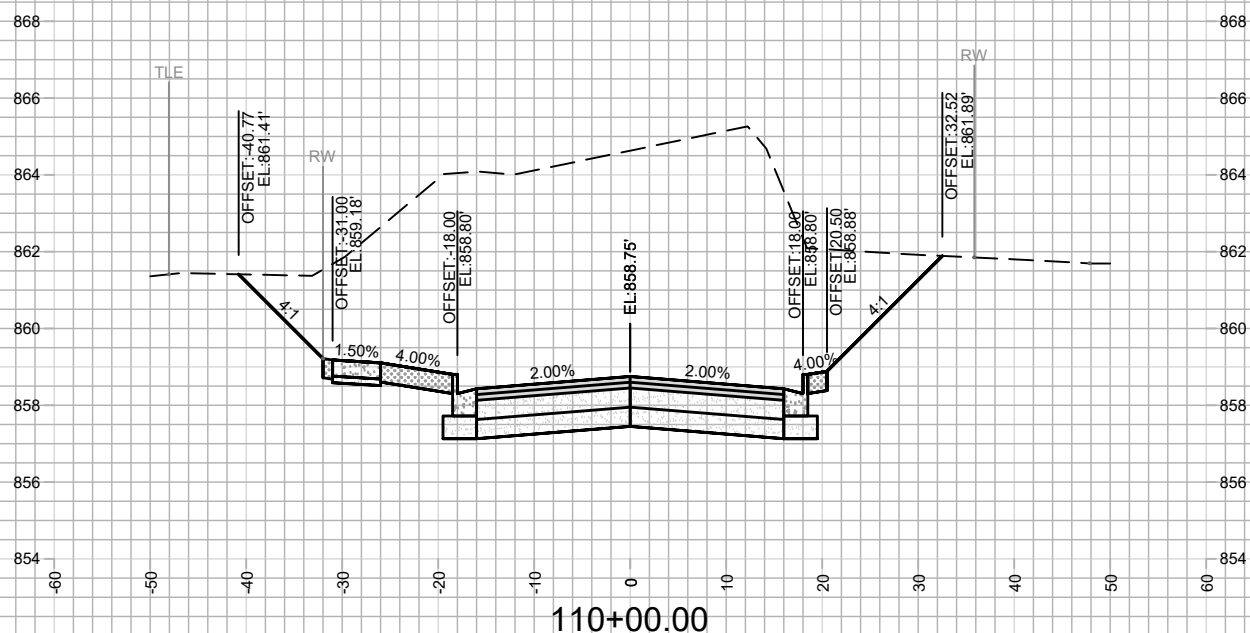
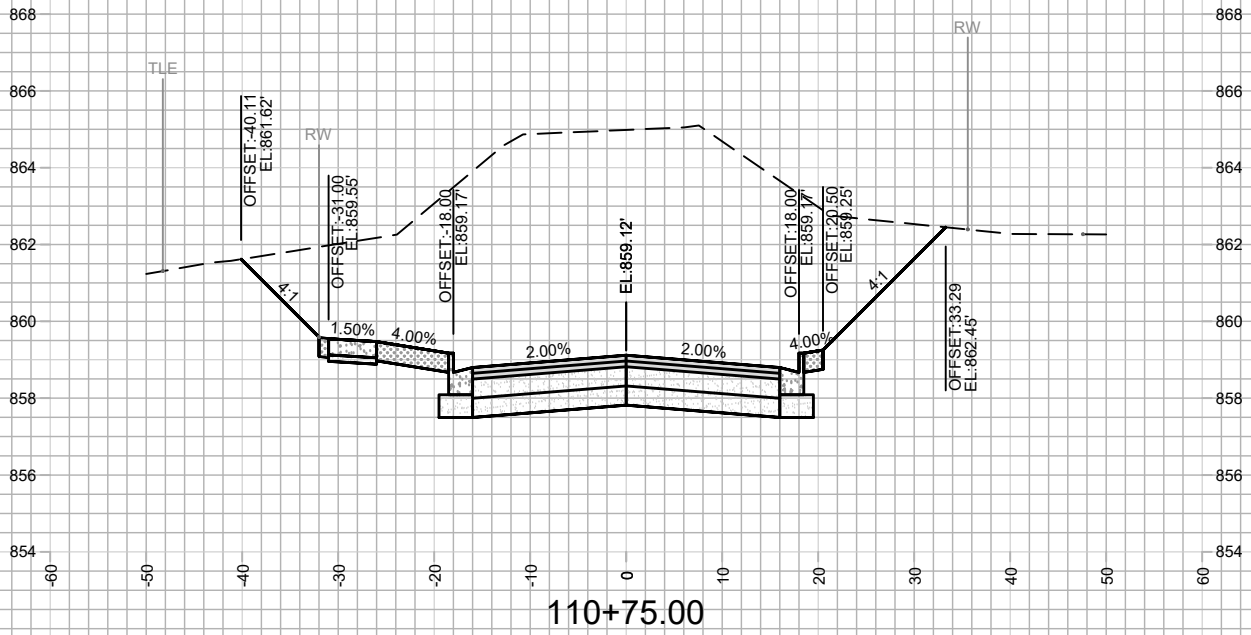
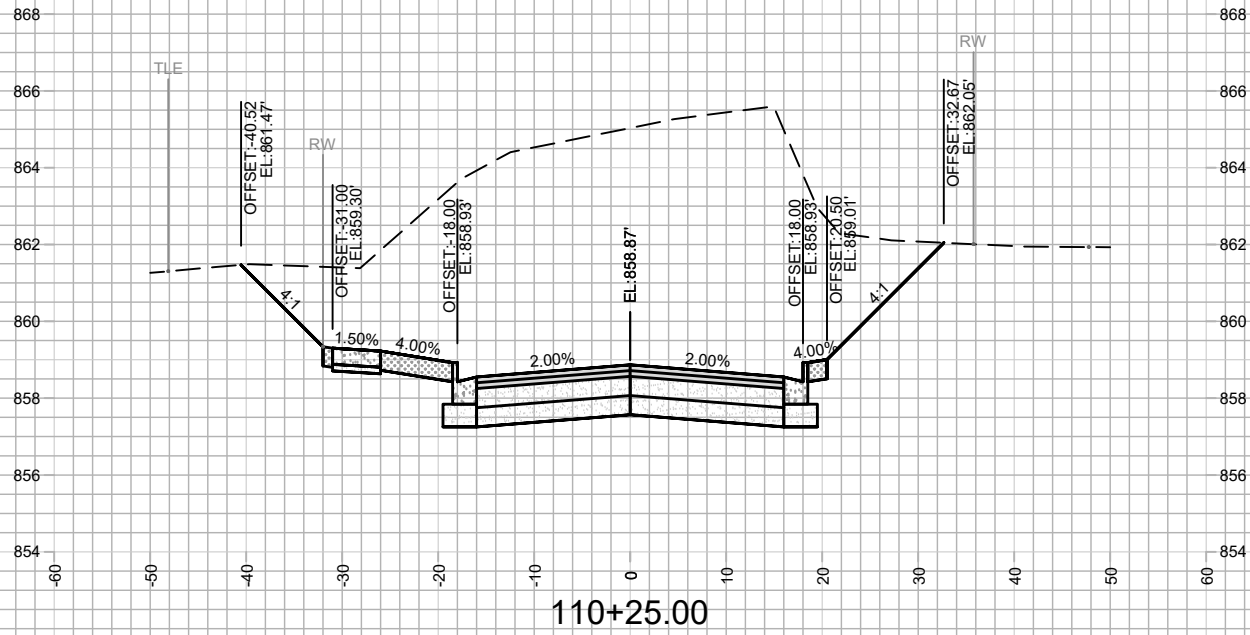
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 CONTRACT NO: 8294

CROSS SECTIONS  
 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)



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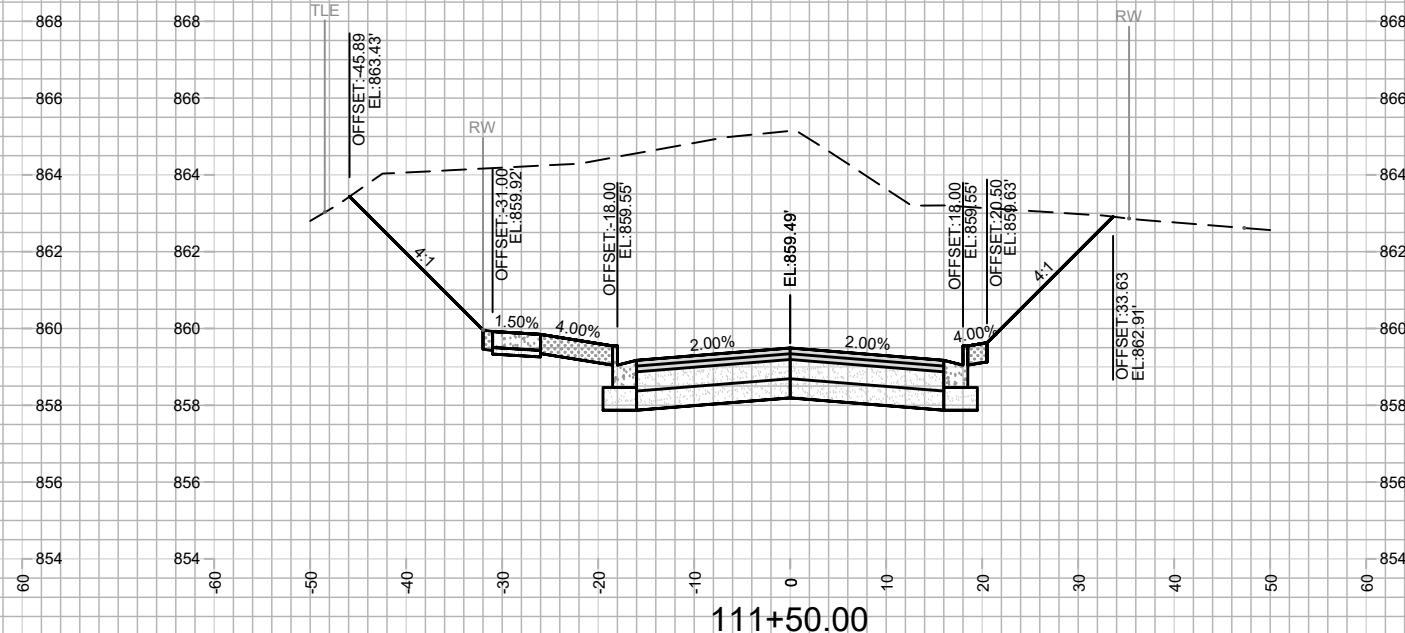
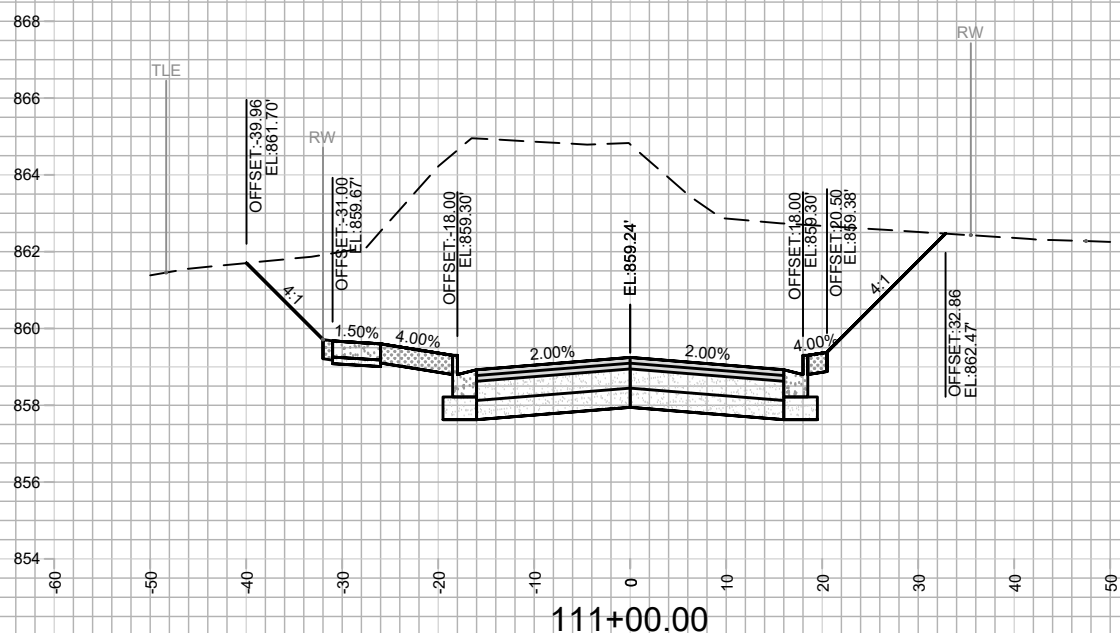
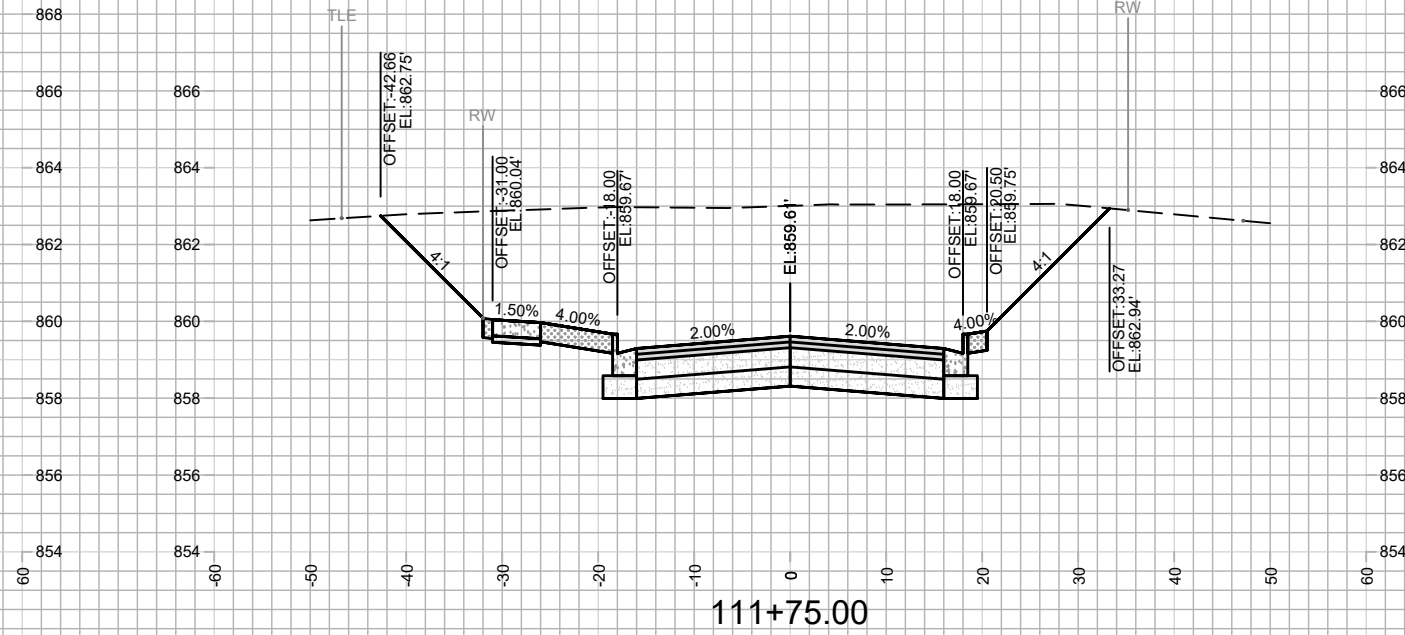
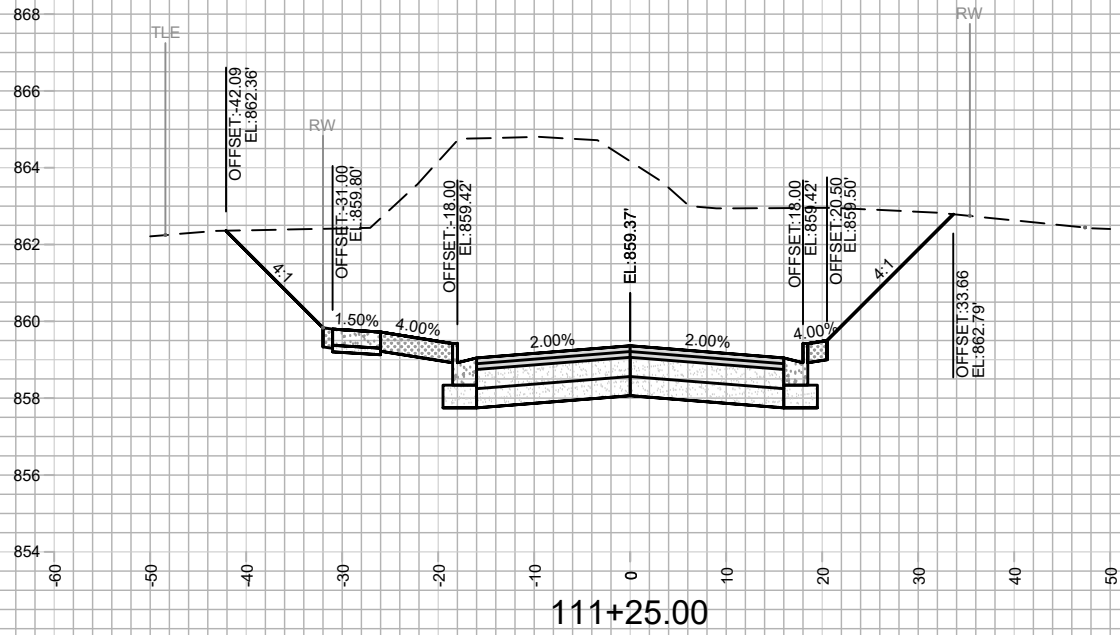
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DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
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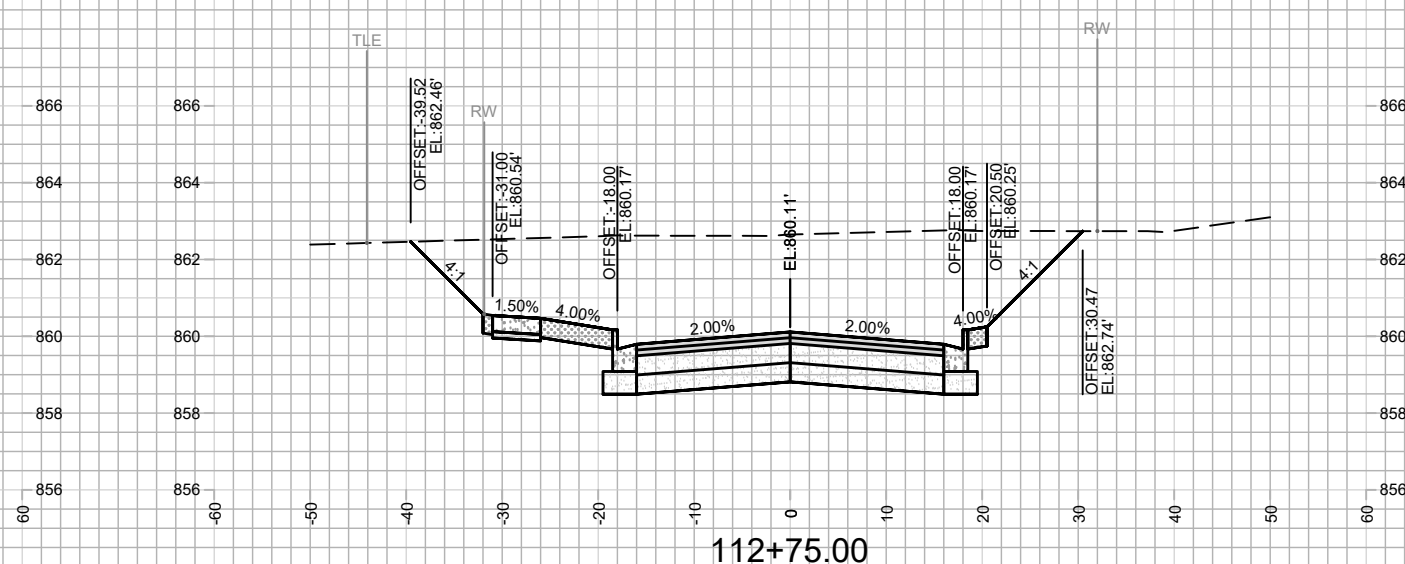
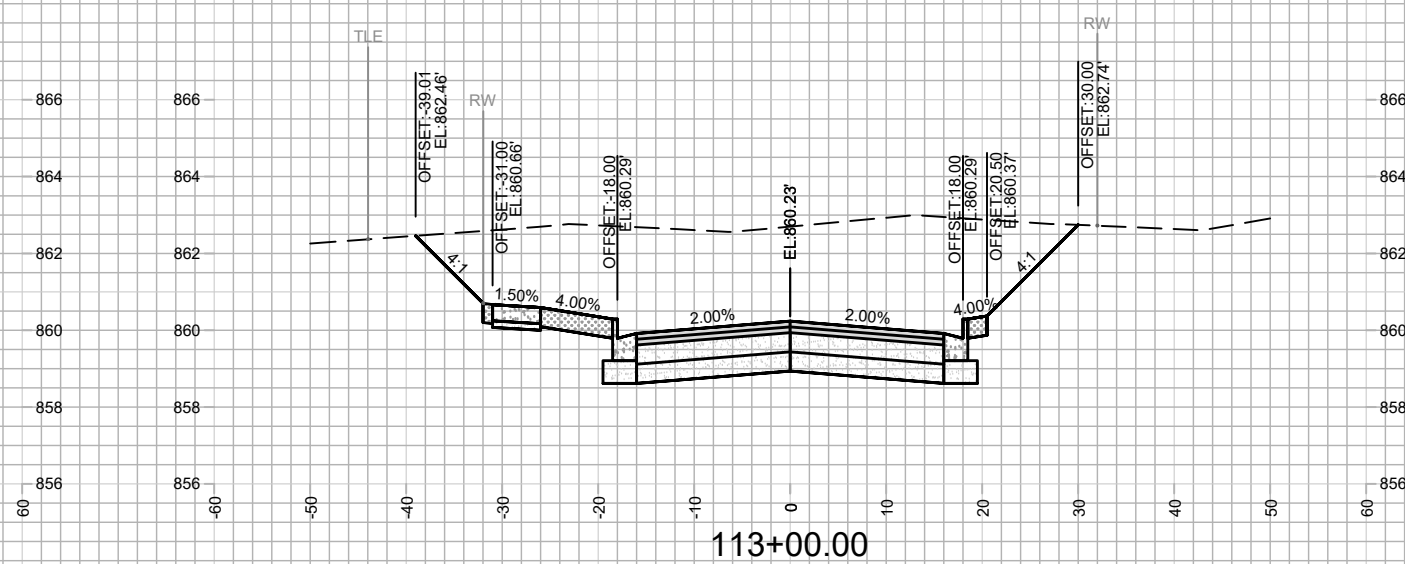
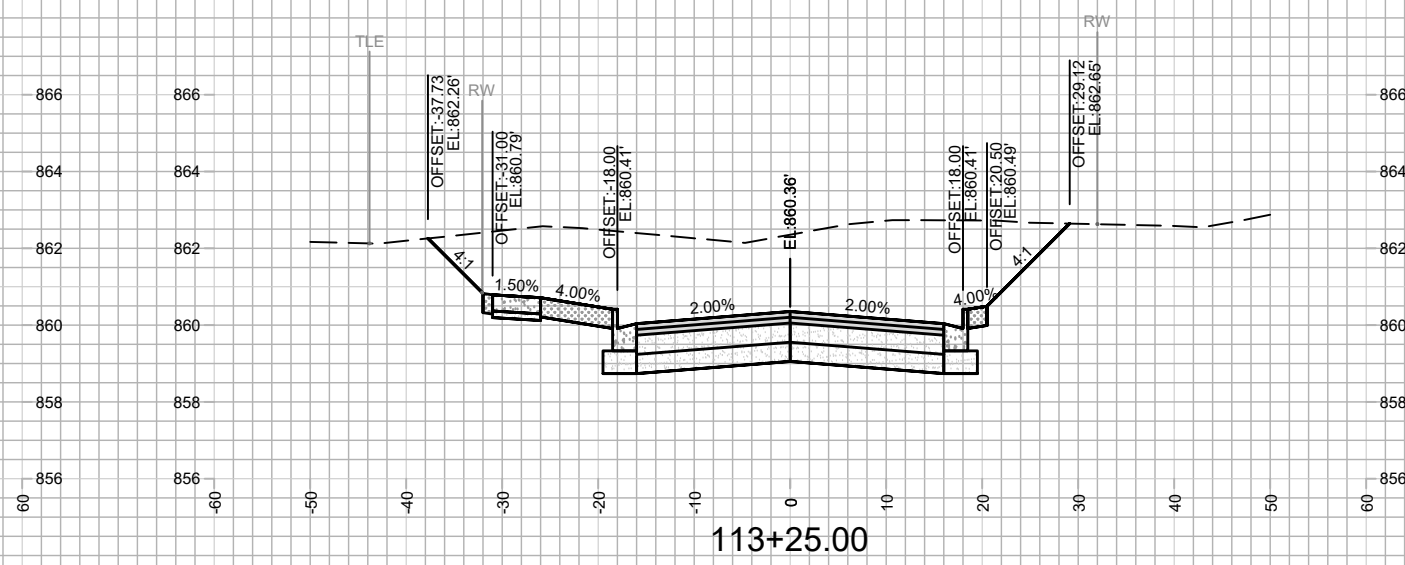
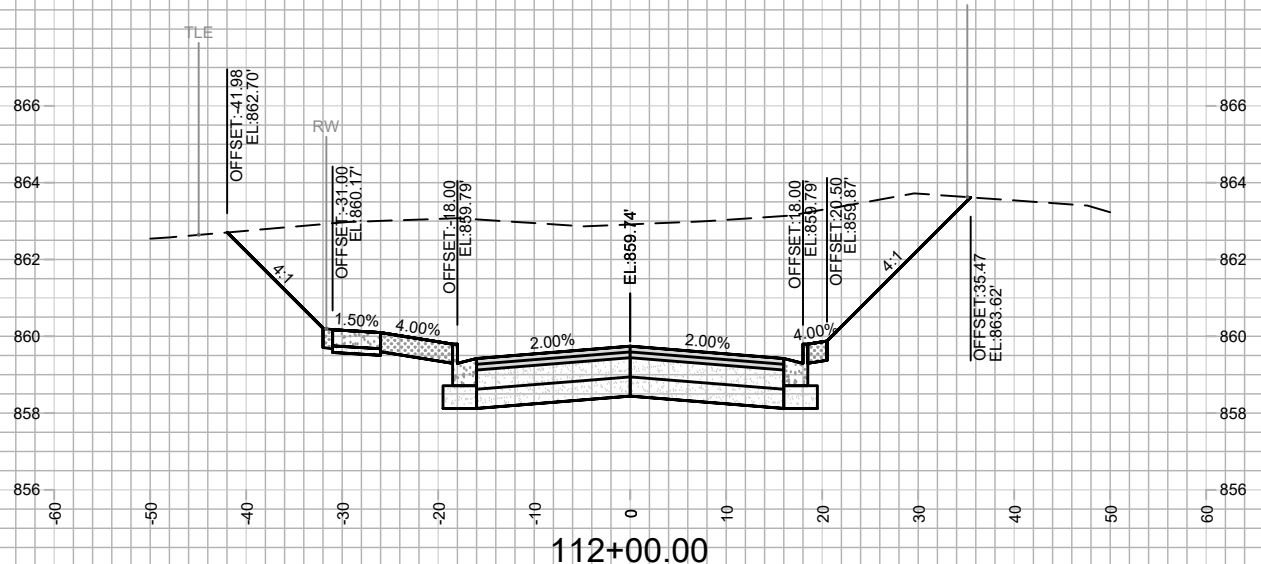
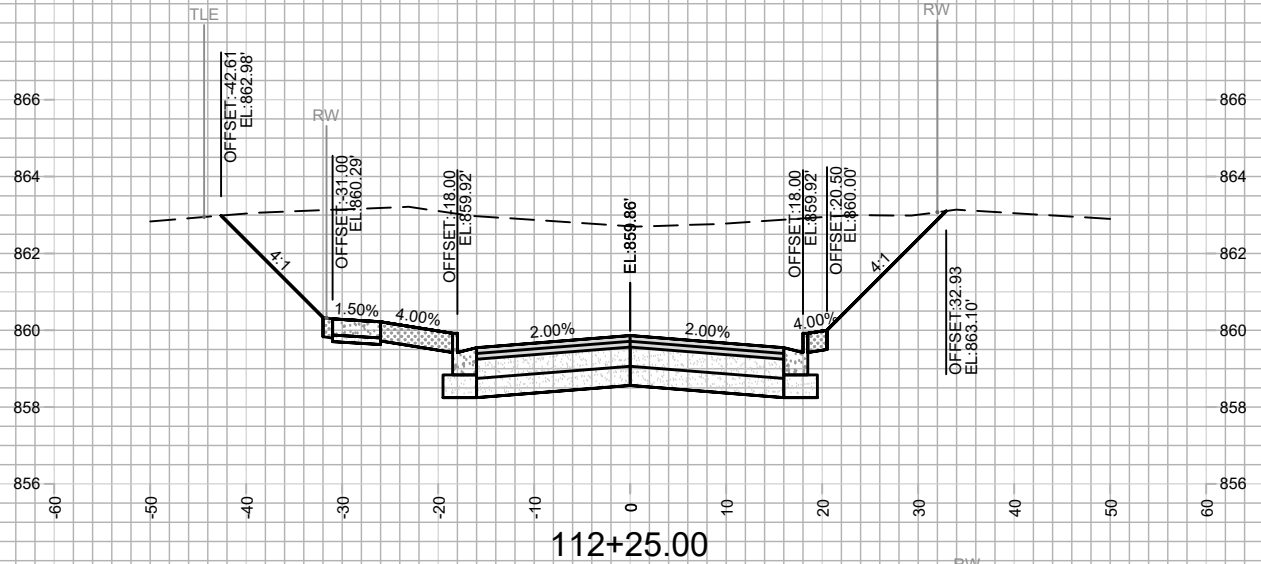
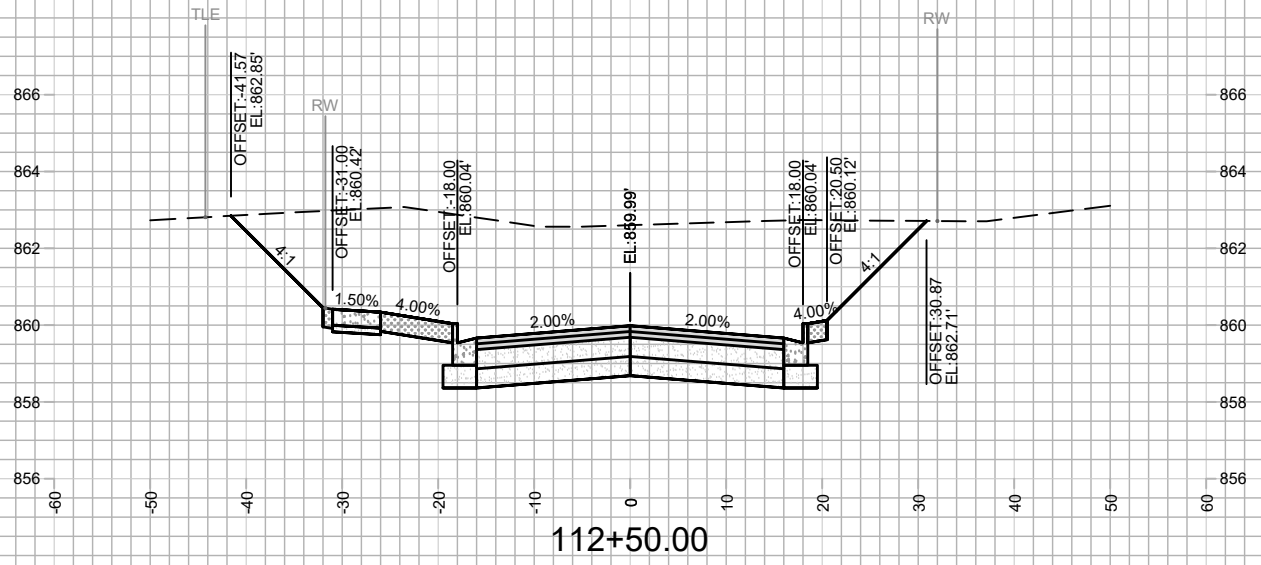
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DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)  
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 DAIRY DRIVE (EAST BROADWAY TO FEMRITE DRIVE)



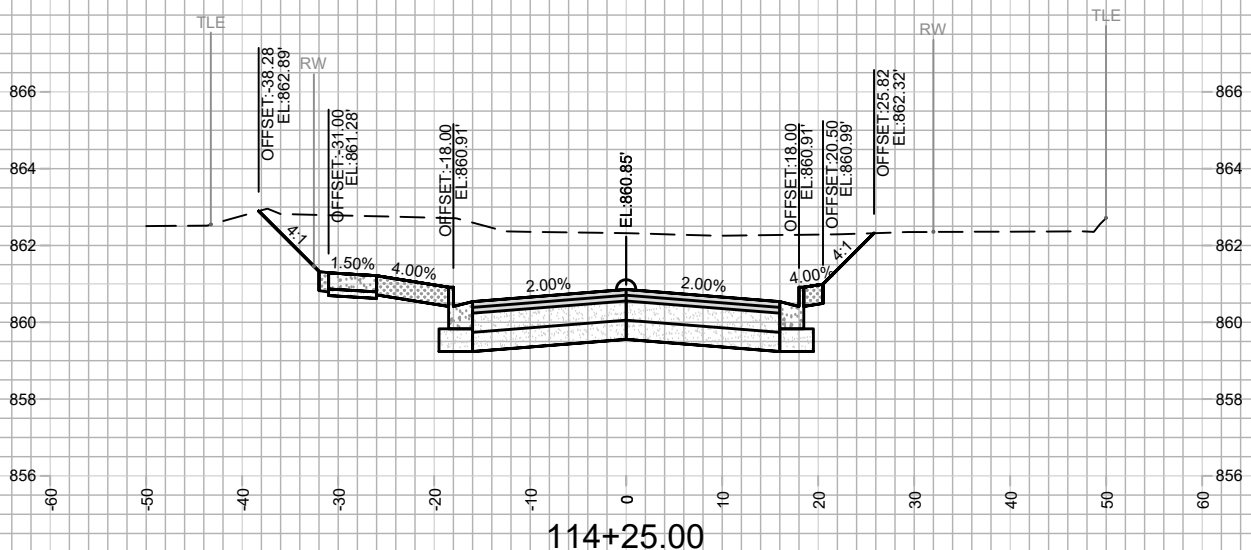
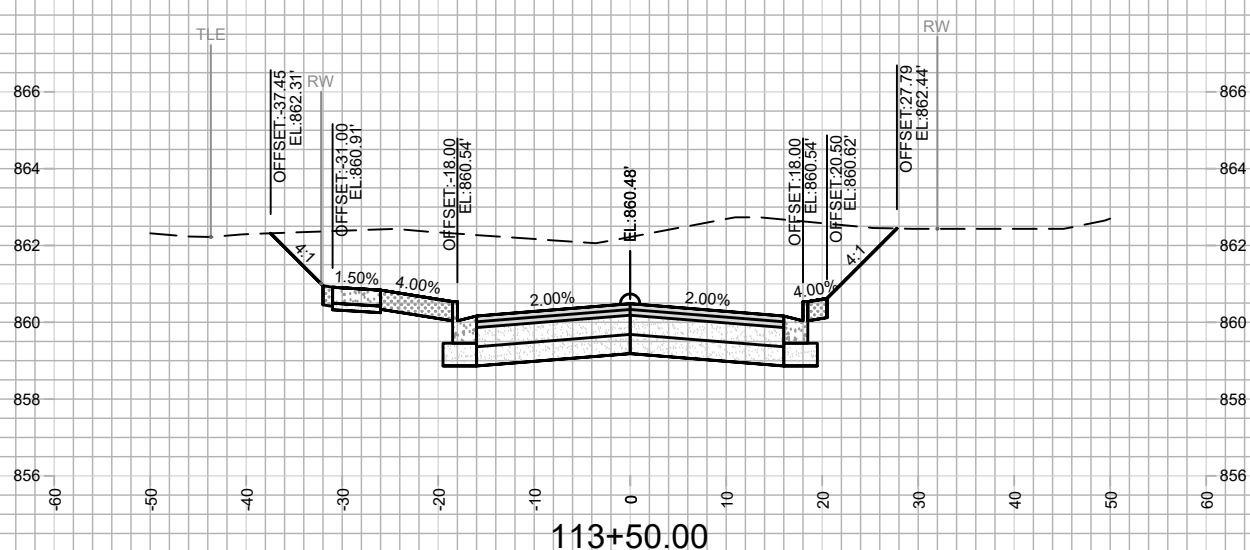
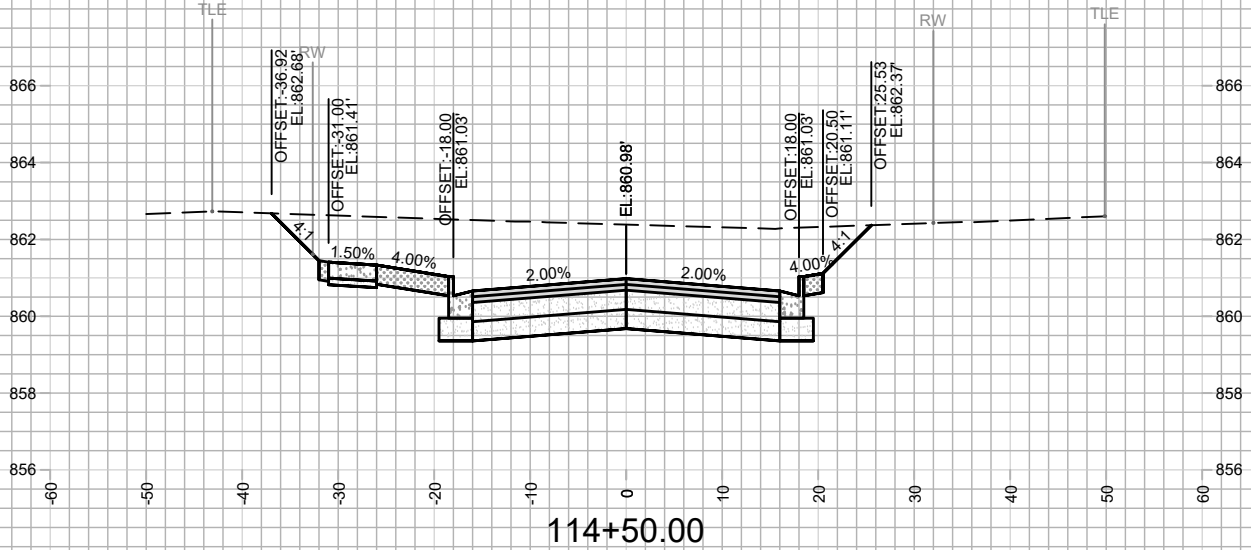
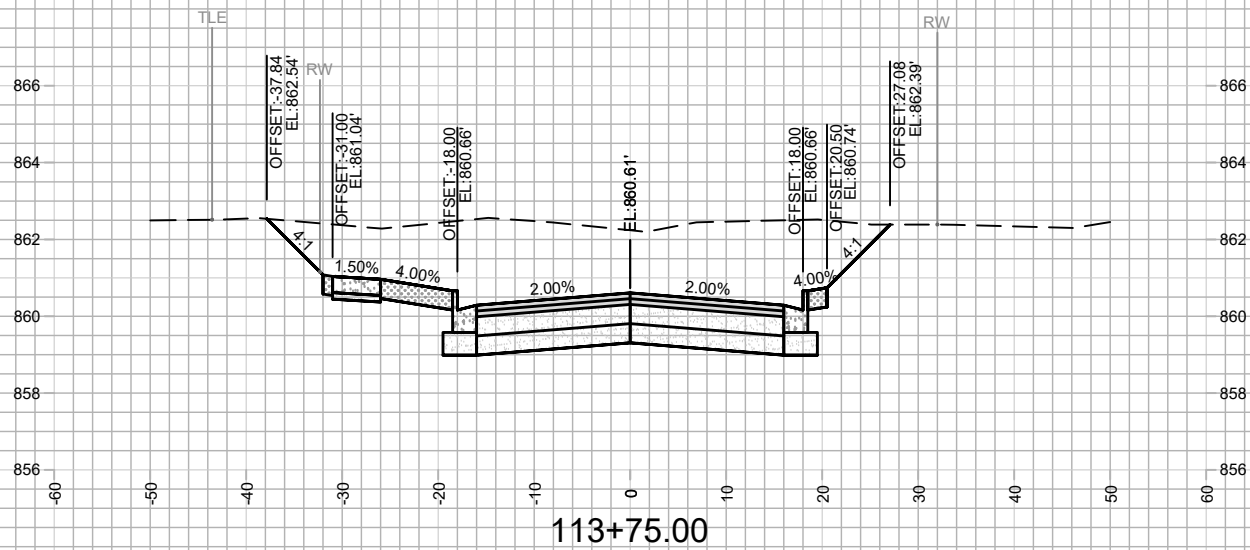
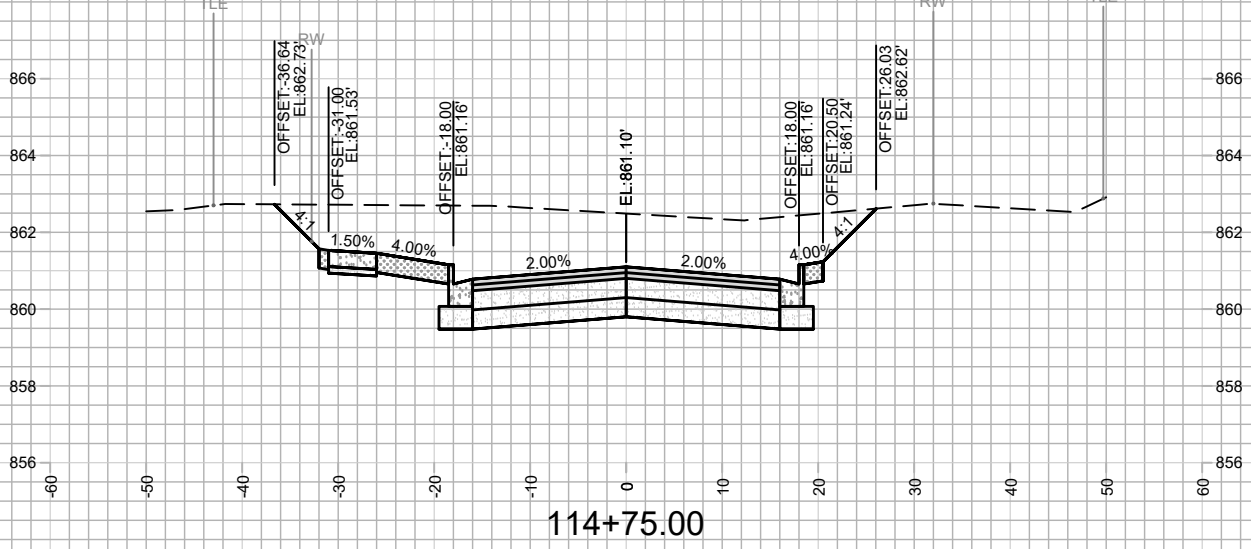
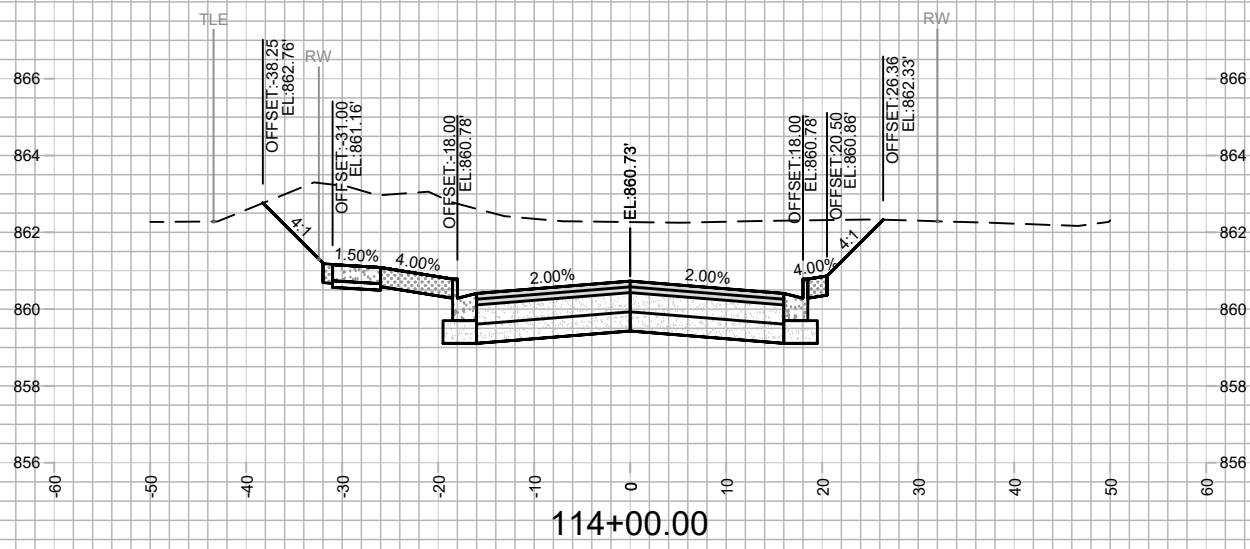
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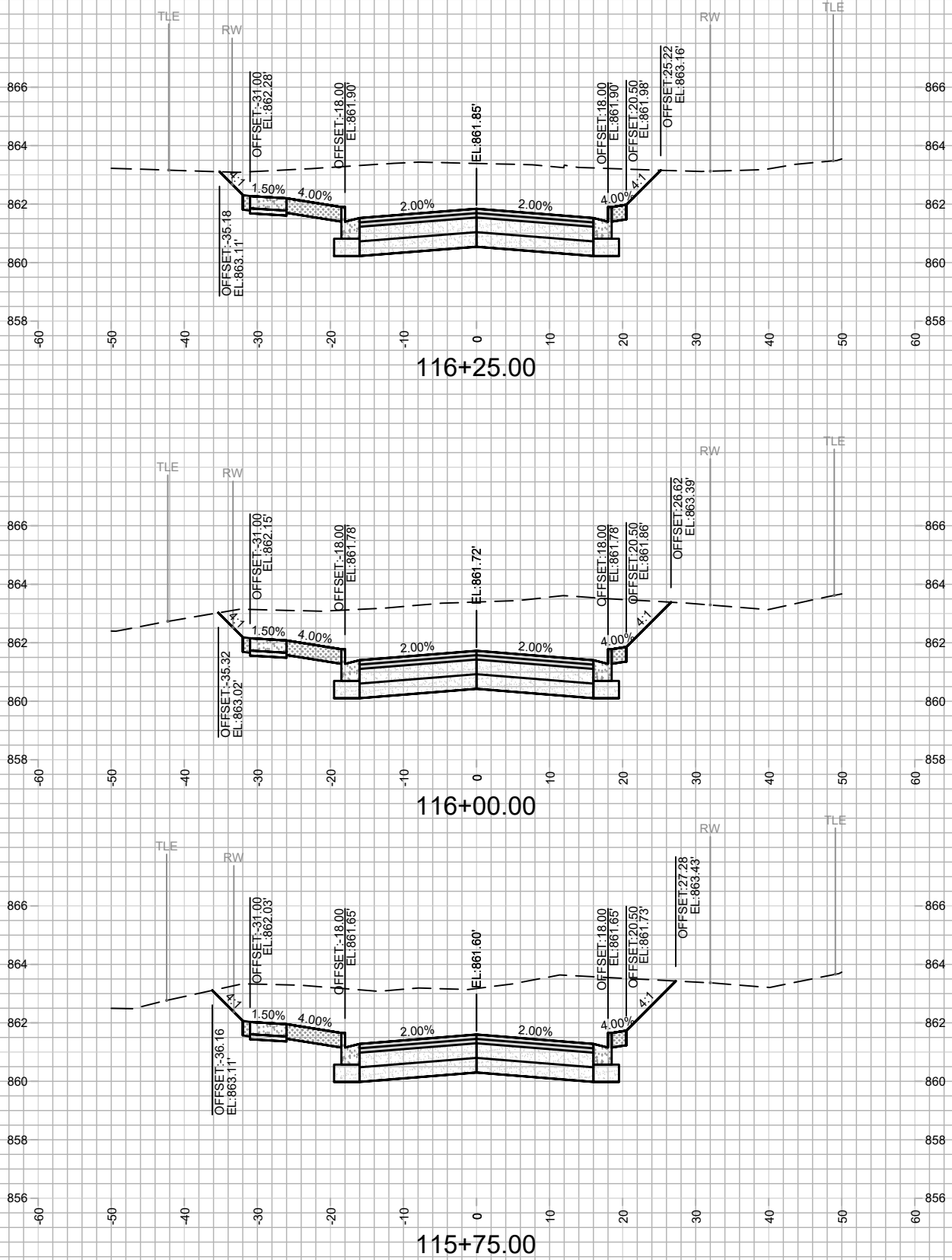
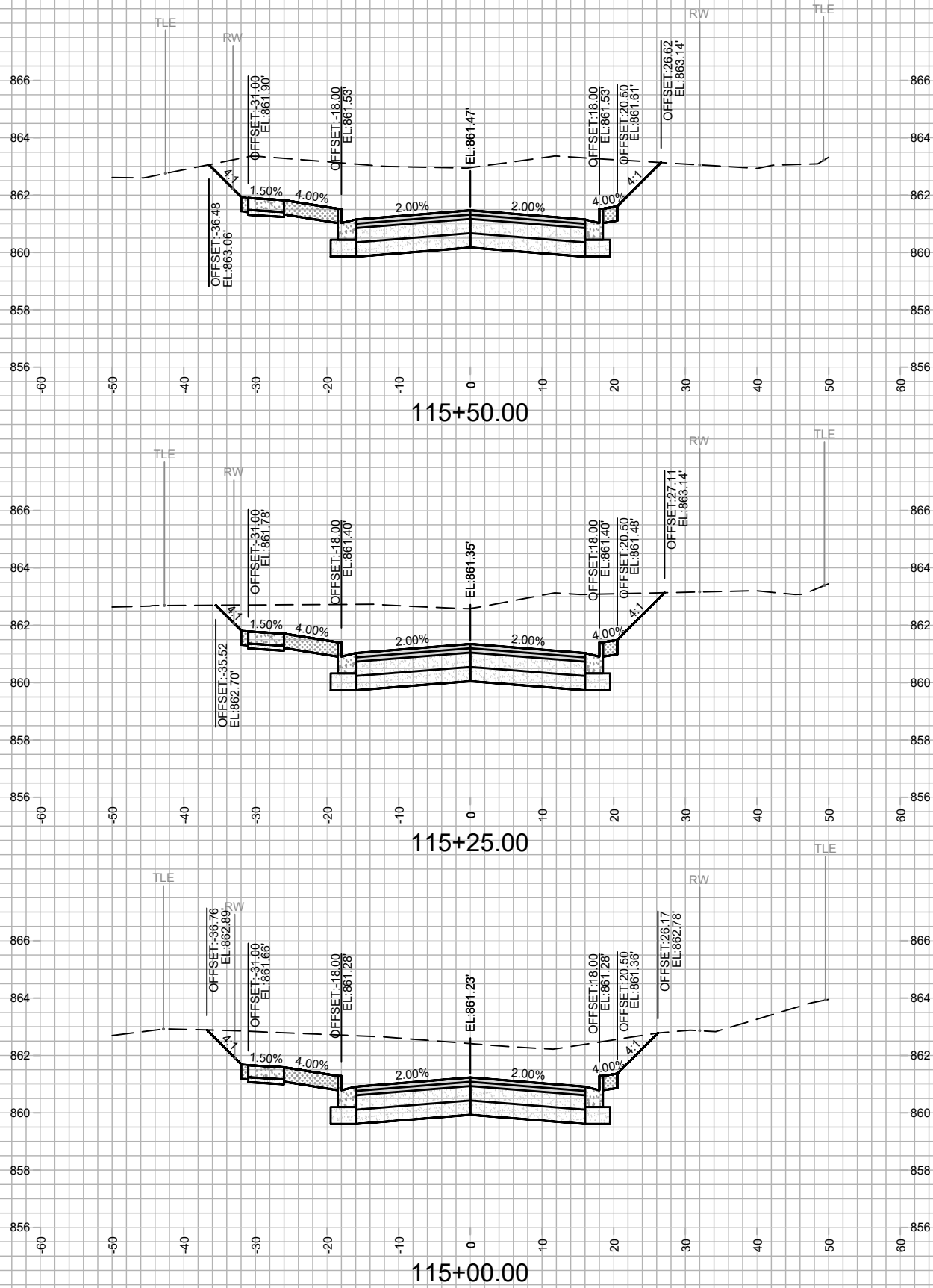
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