

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

### UTILITY REPLACEMENT WITH RESURFACING-2015

(EAU CLAIRE AVE, BLUFF ST, KENDALL AVE)  
 CAMERON DR, RIVA RD, THRUSH LN)  
 (MULBERRY CIR & MULBERRY LN)

CITY PROJECT NO. 53WI793(MUNIS #10253)

CONTRACT NO. 7437

PUBLIC IMPROVEMENT PROJECT APPROVED

March 5, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 3/13/15  
 City Engineer Date

STREET DESIGNED BY:

*[Signature]*  
 STEVEN M. SONNTAG  
 E-38891  
 MADISON WI  
 3-16-15  
 PROFESSIONAL ENGINEER

SANITARY SEWERS DESIGNED BY:

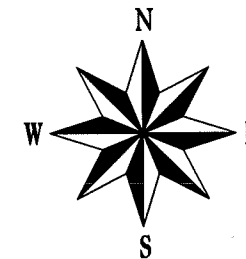
*[Signature]*  
 ERIC L. DUNDEE  
 E-40126  
 SUN PRAIRIE WI  
 03-16-2015  
 PROFESSIONAL ENGINEER

STORM SEWERS DESIGNED BY:

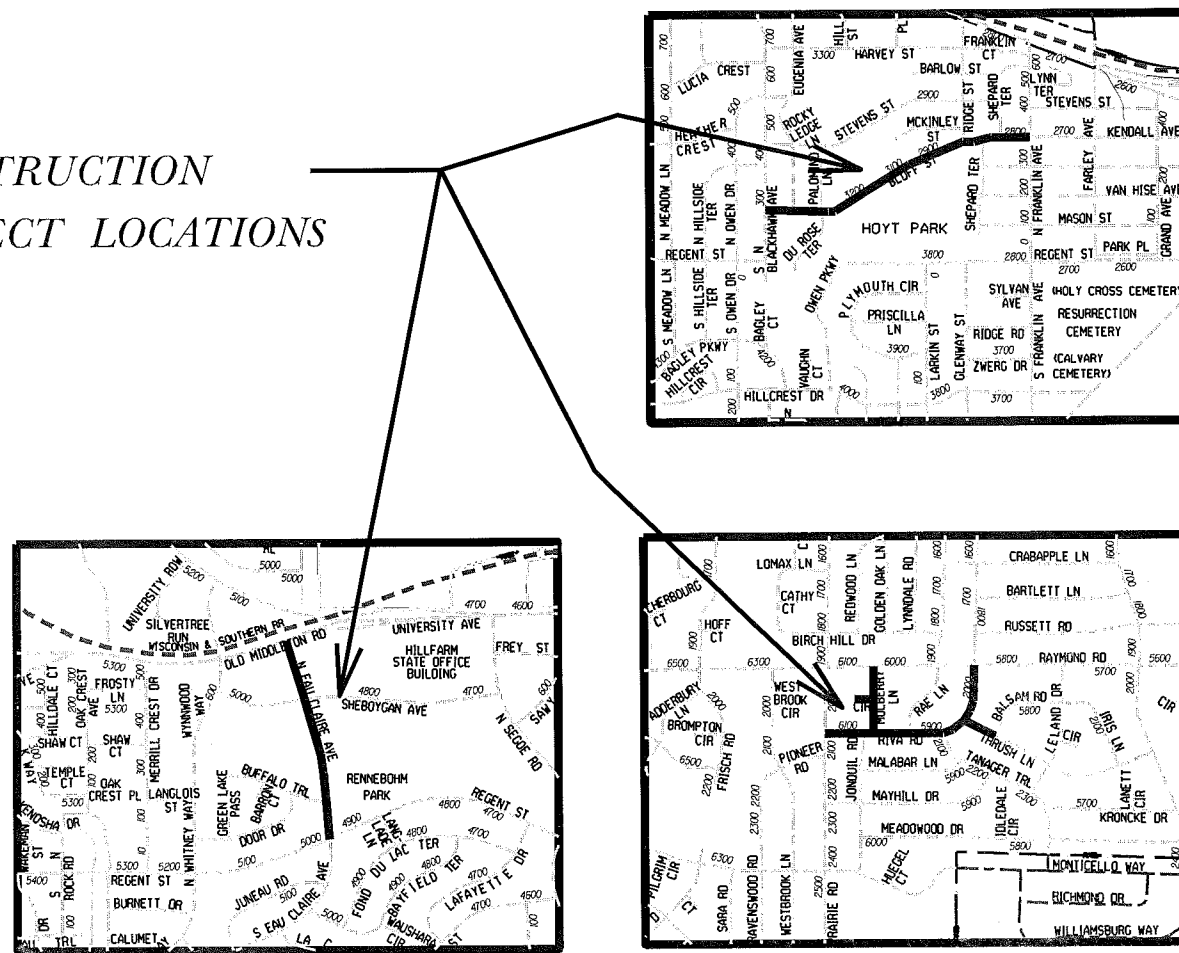
*[Signature]*  
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INDEX OF SHEETS

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U6-U7	SEWER SCHEDULES - EAU CLAIRE
U8-U13	SEWER PLAN & PROFILE - KENDALL/BLUFF
U14-U15	SEWER SCHEDULES - KENDALL/BLUFF
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CONSTRUCTION PROJECT LOCATIONS



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
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.

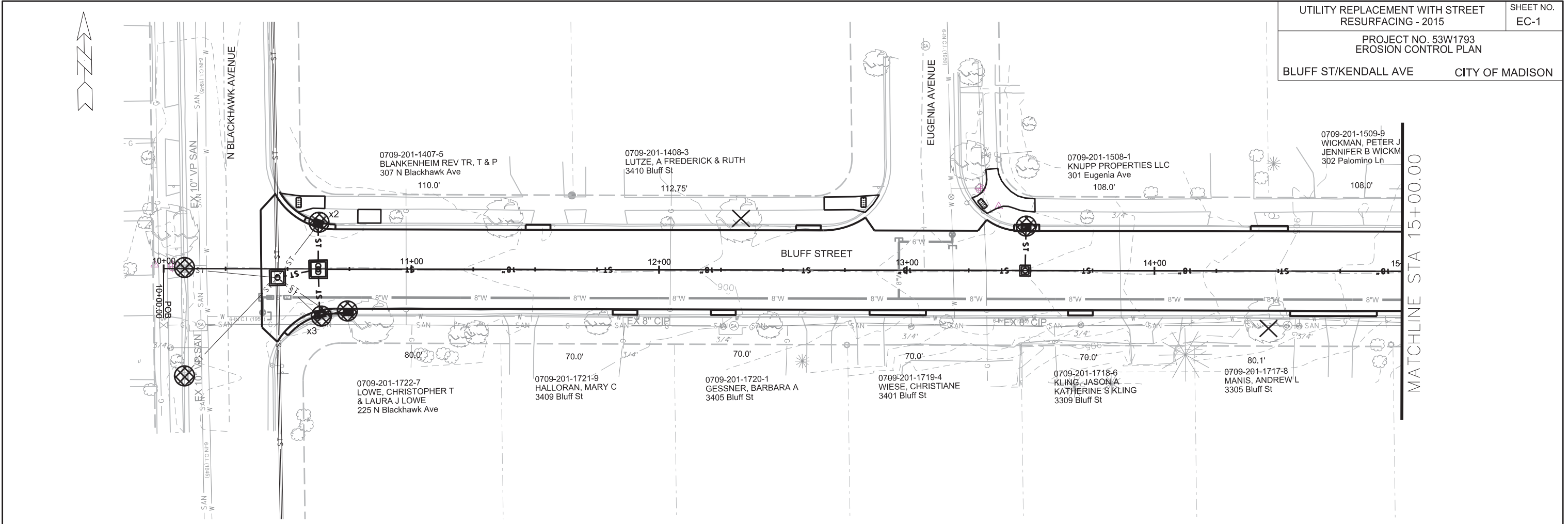
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PLOT SCALE:







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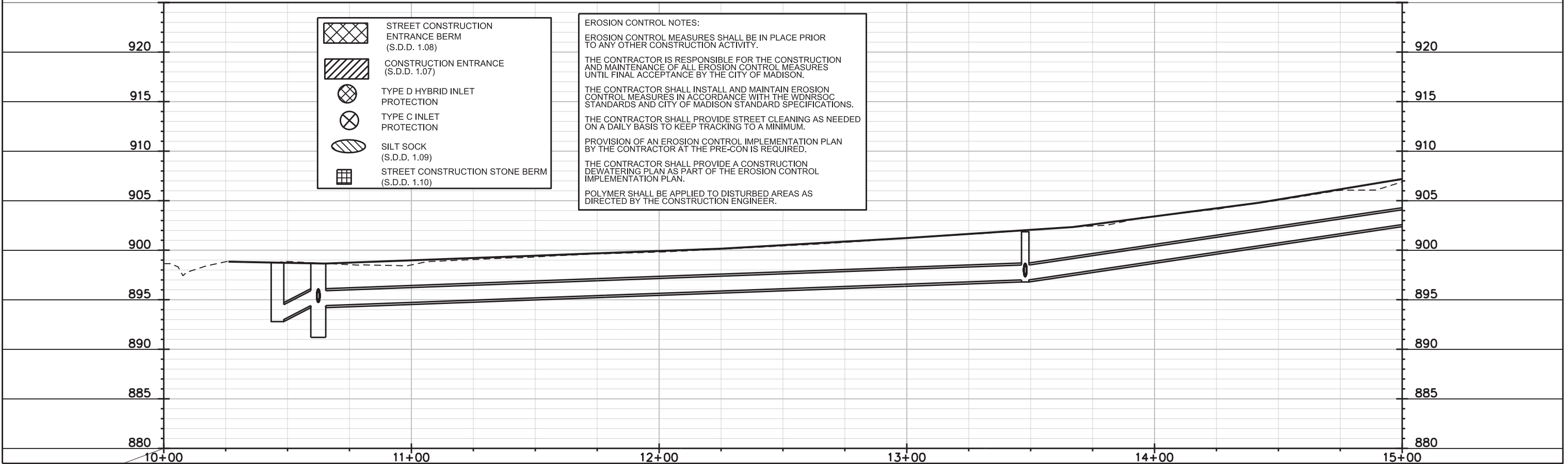
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 15+00.00

-  STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
-  CONSTRUCTION ENTRANCE (S.D.D. 1.07)
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (S.D.D. 1.09)
-  STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

**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.  
 PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.  
 THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.  
 POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

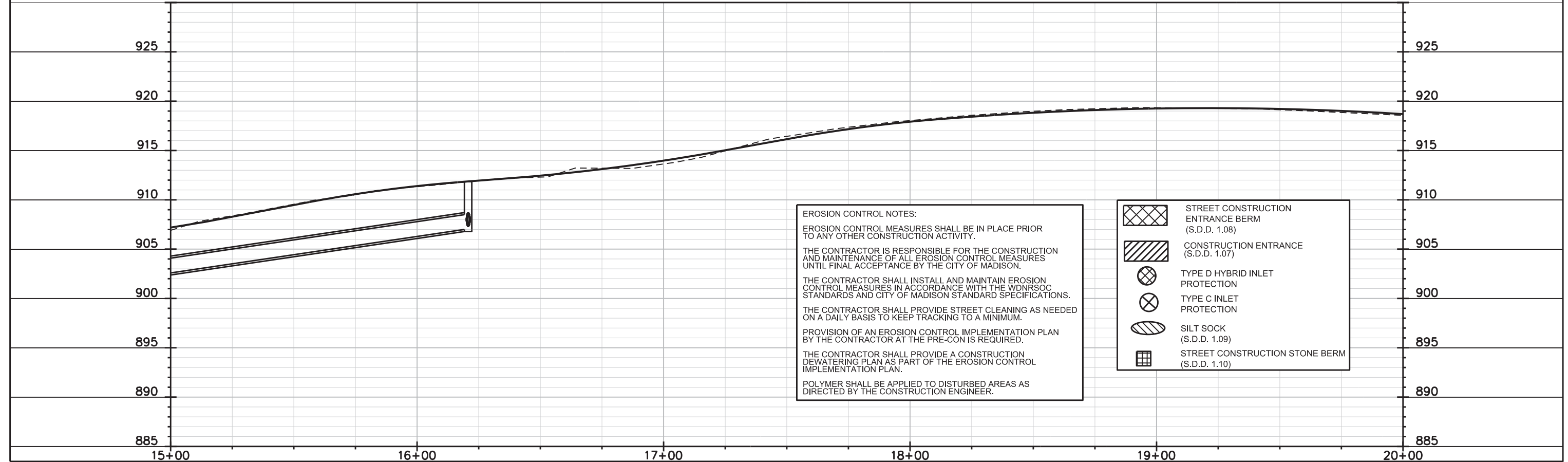
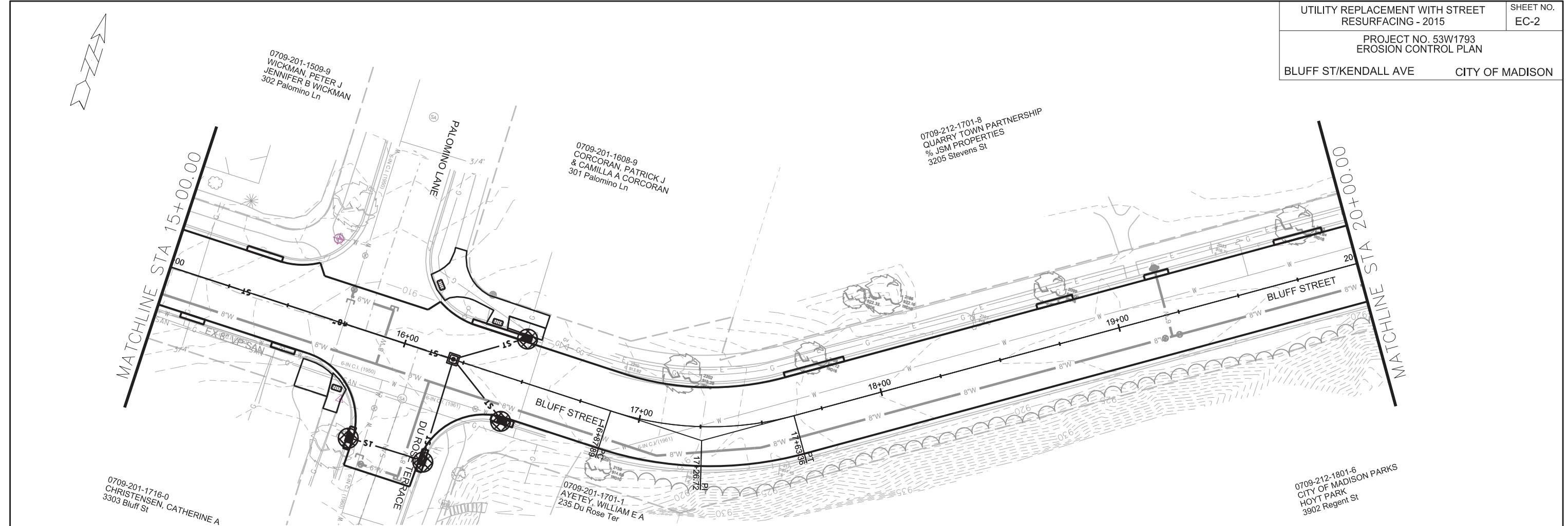


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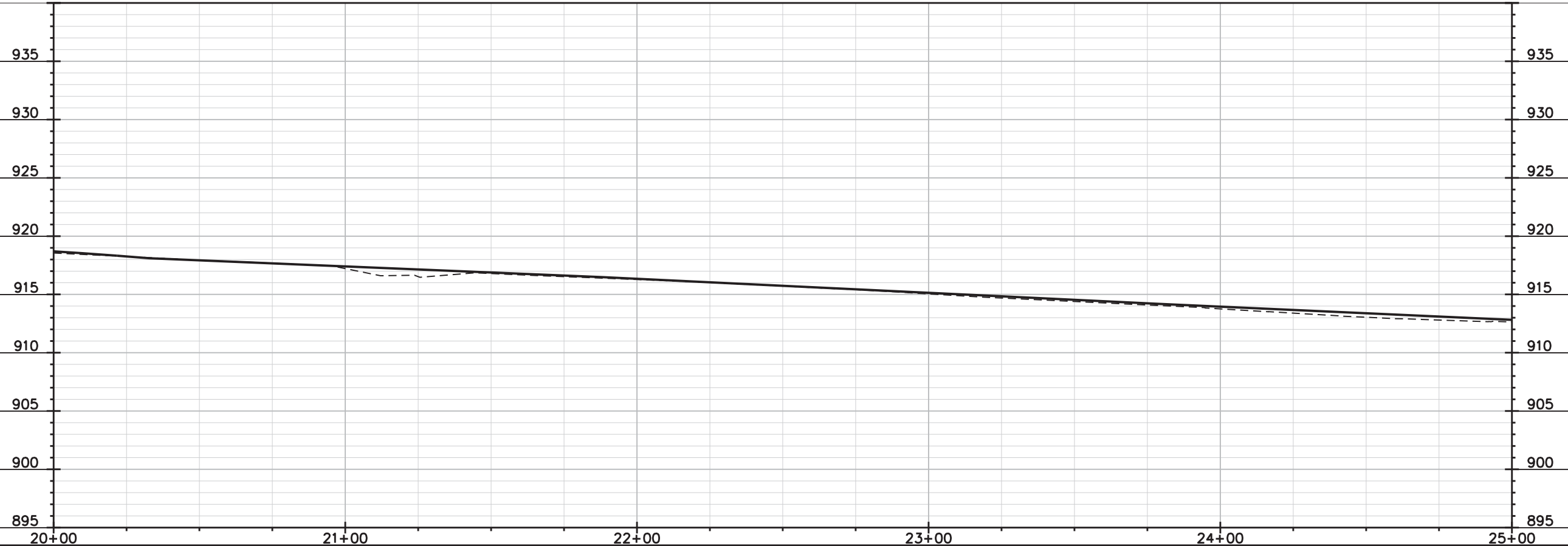
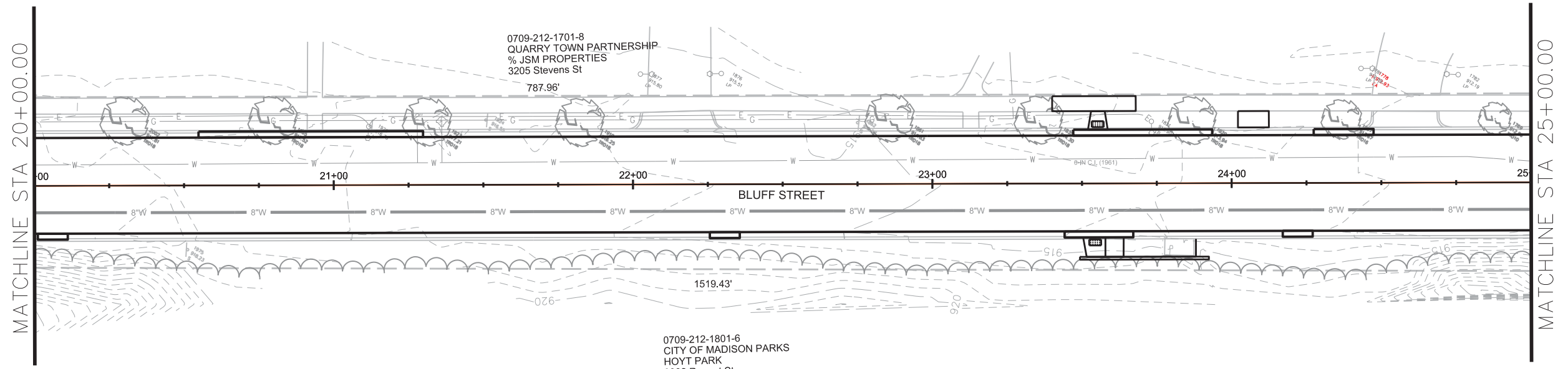
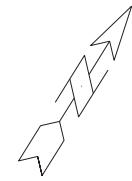


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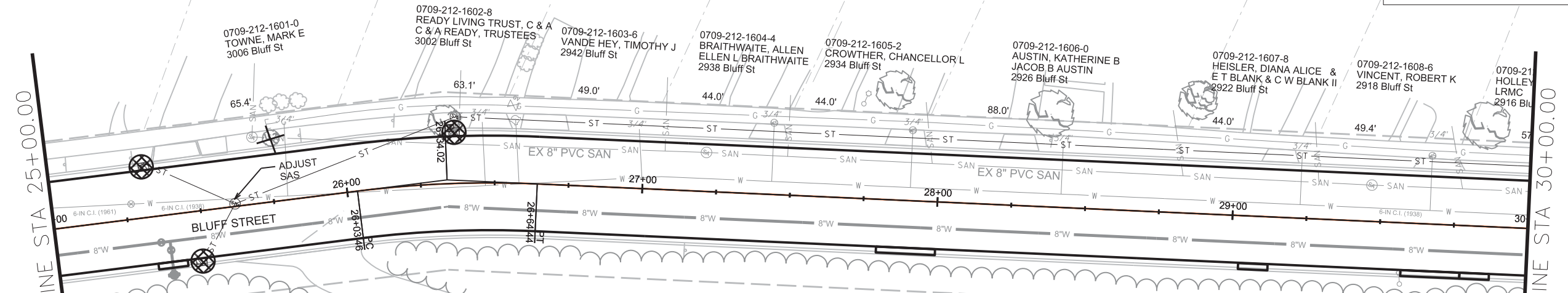








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MATCHLINE STA 25+00.00

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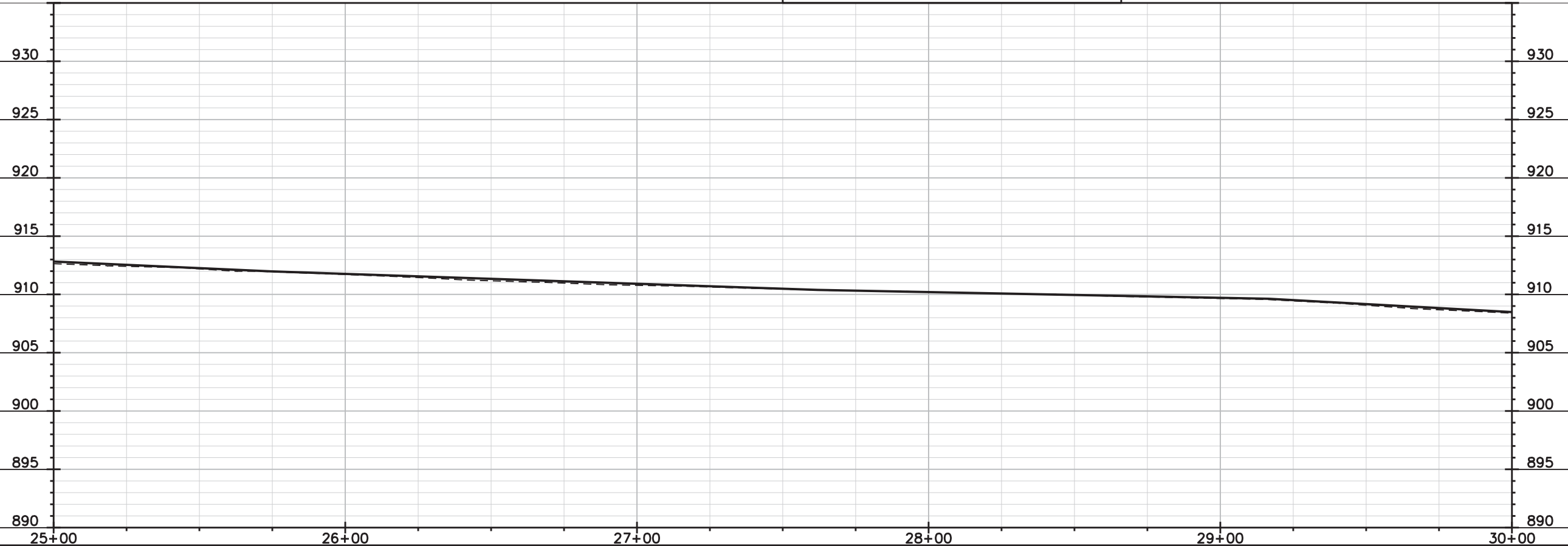
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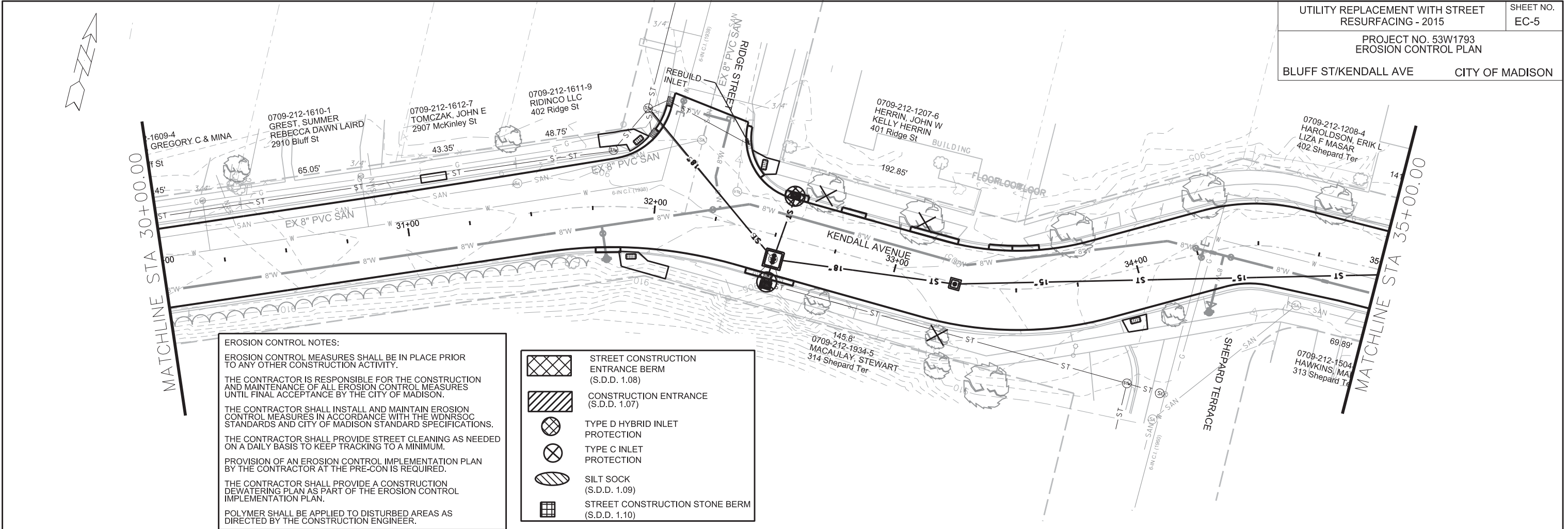


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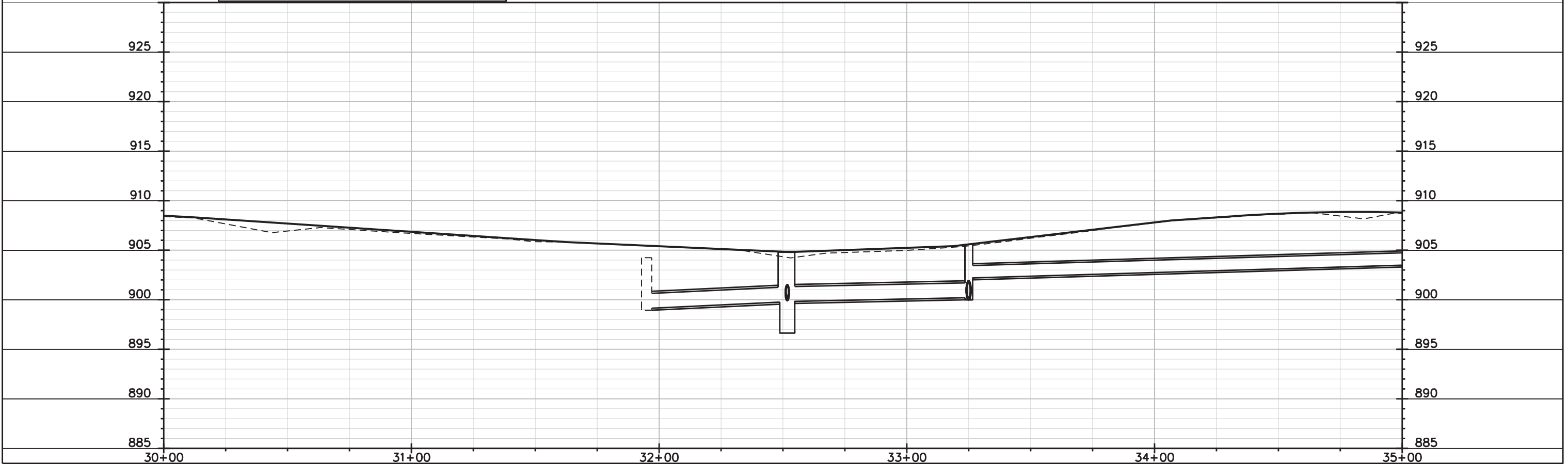
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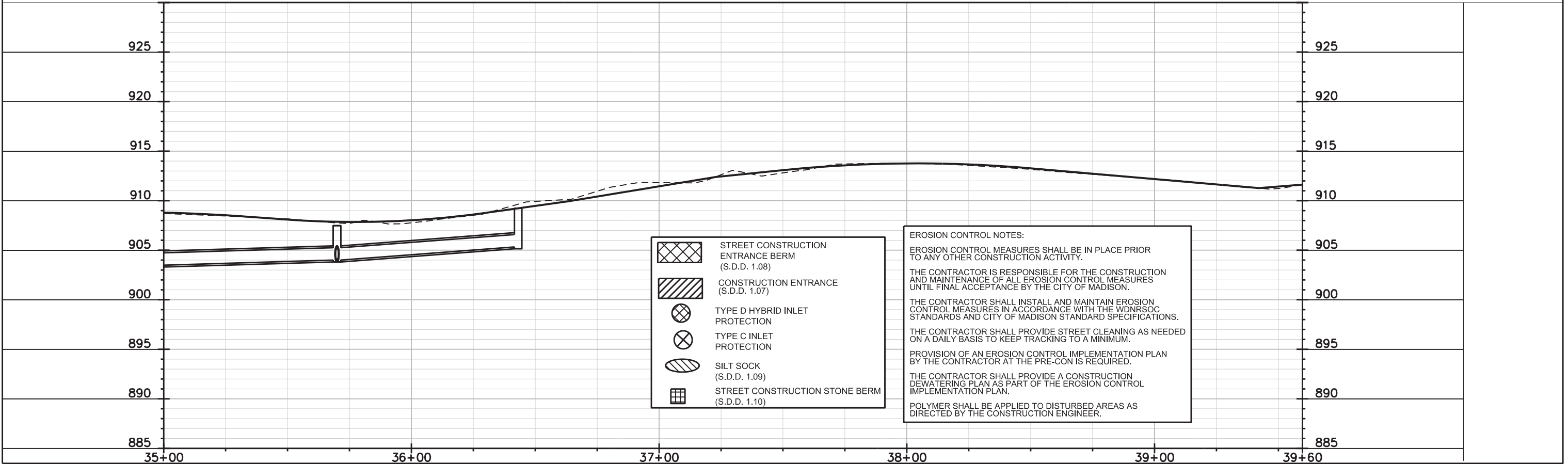
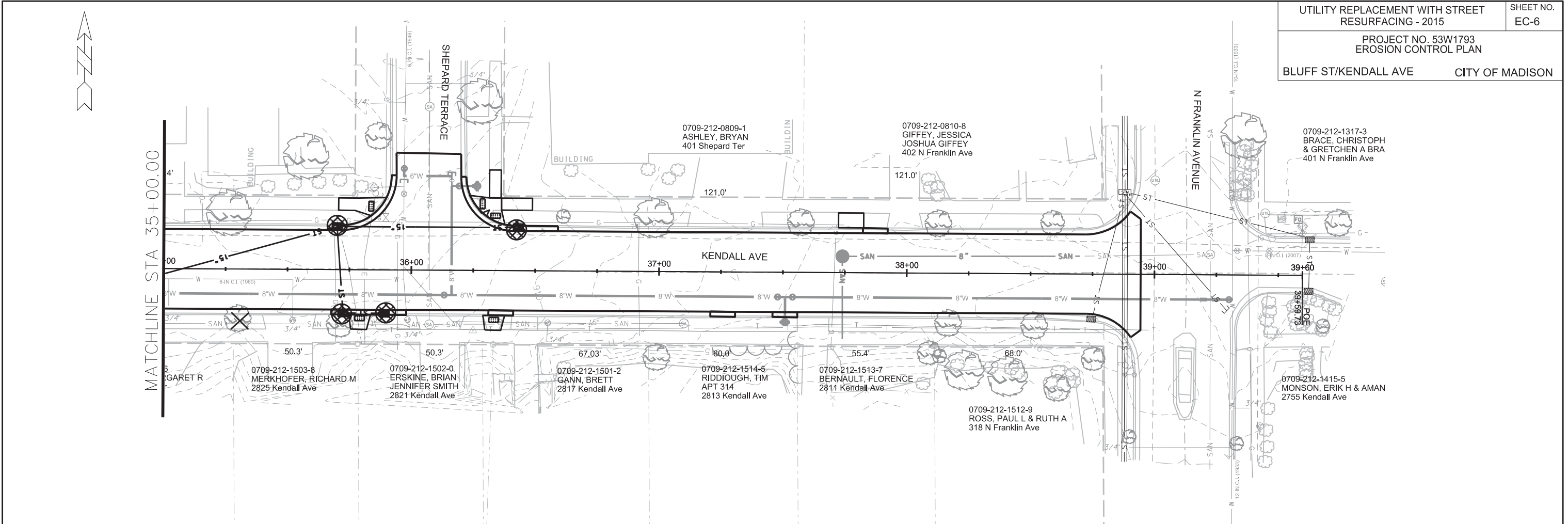
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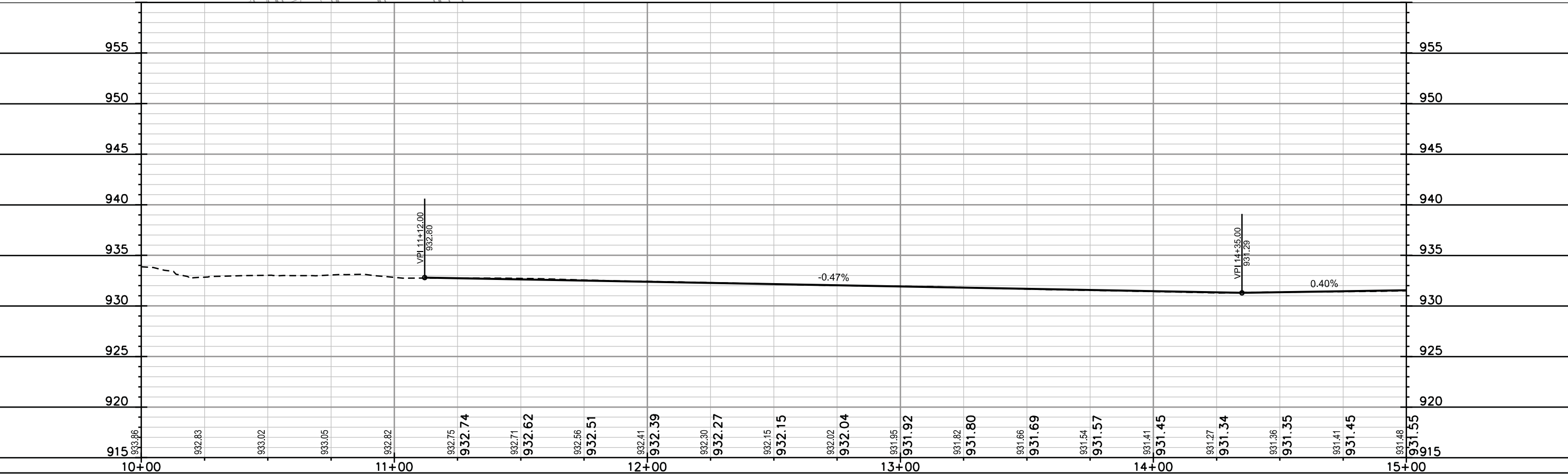
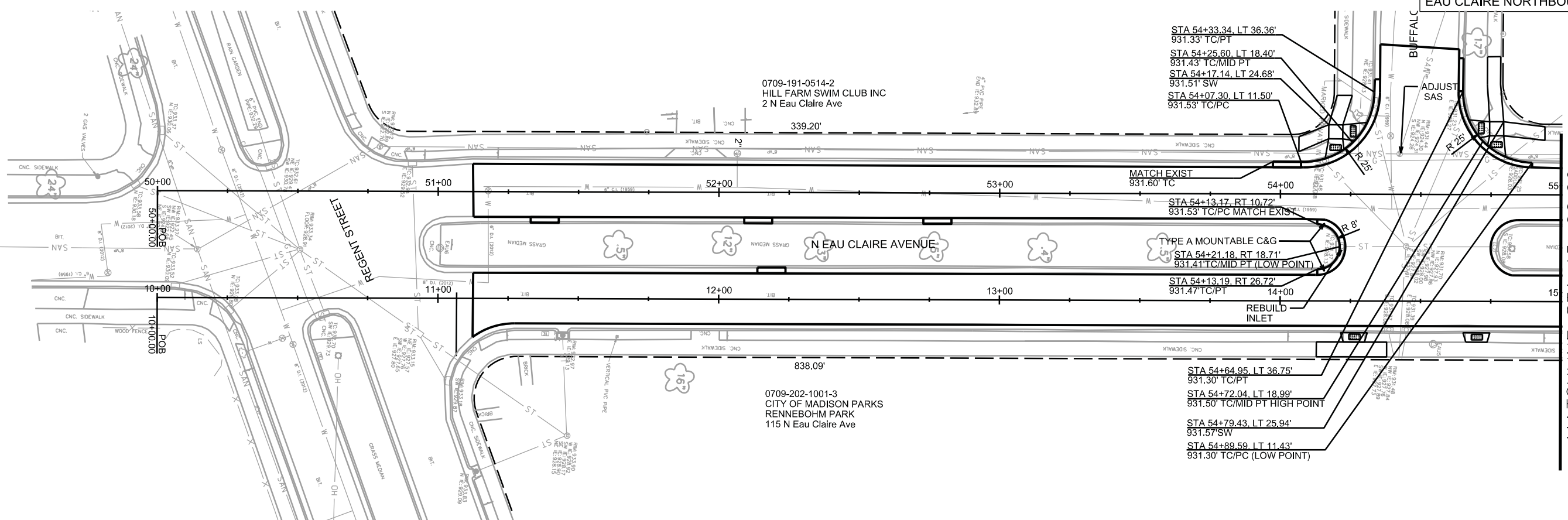
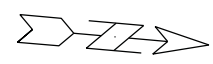


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PLAN AND PROFILE

EAU CLAIRE NORTHBOUND CITY OF MADISON



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

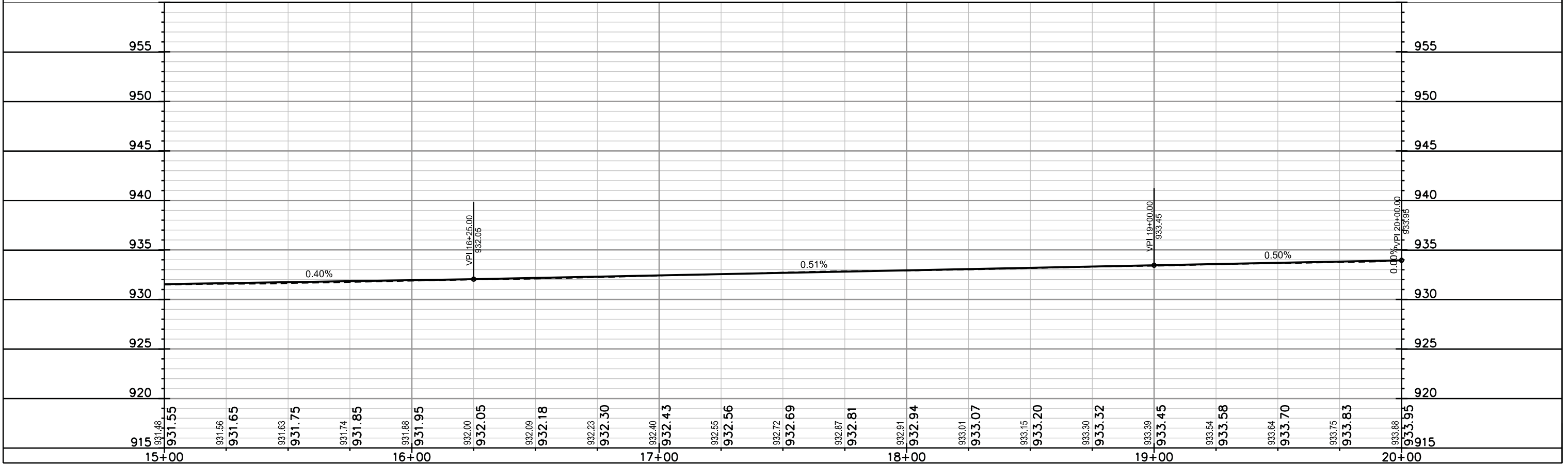
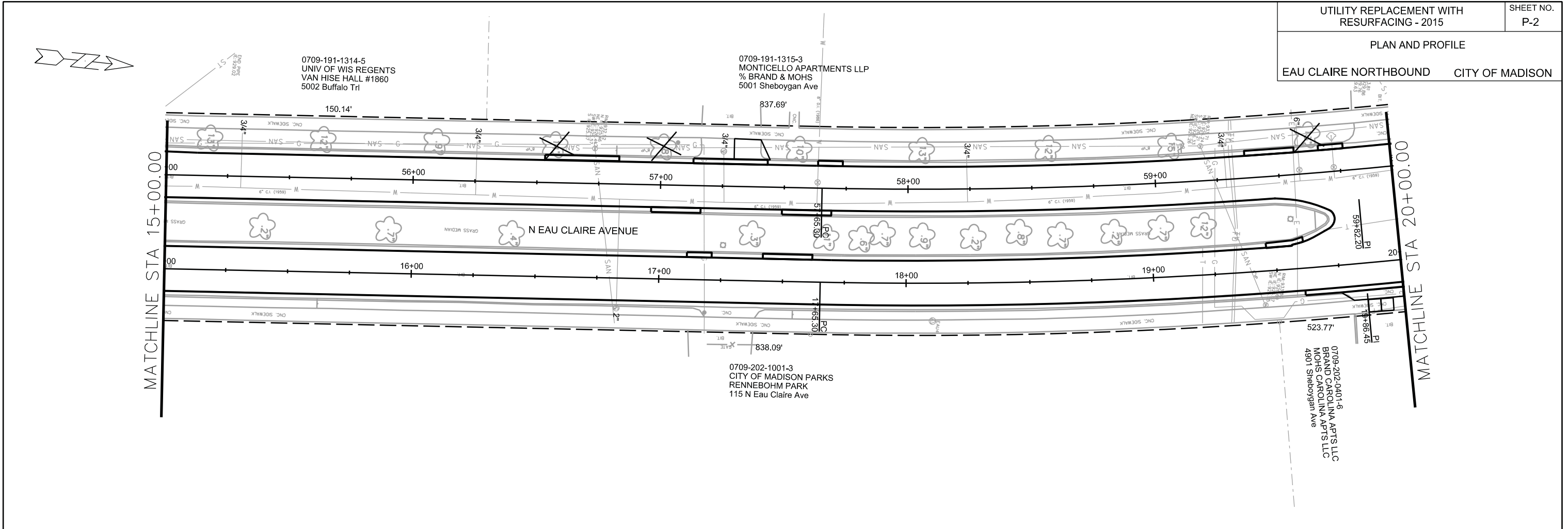
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PLAN AND PROFILE  
EAU CLAIRE NORTHBOUND CITY OF MADISON

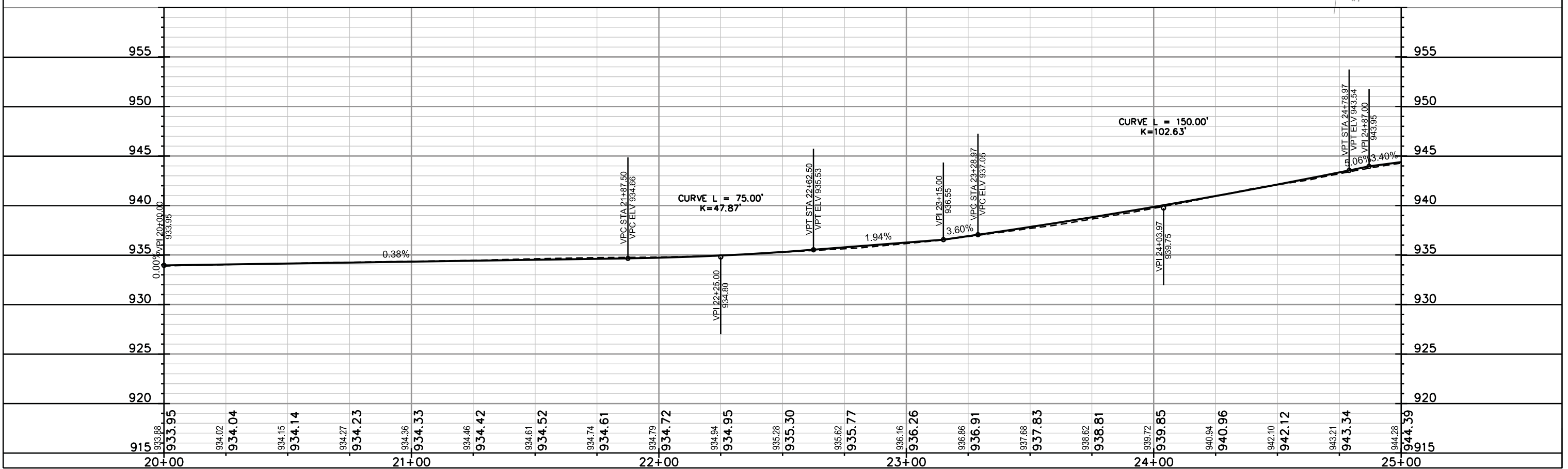
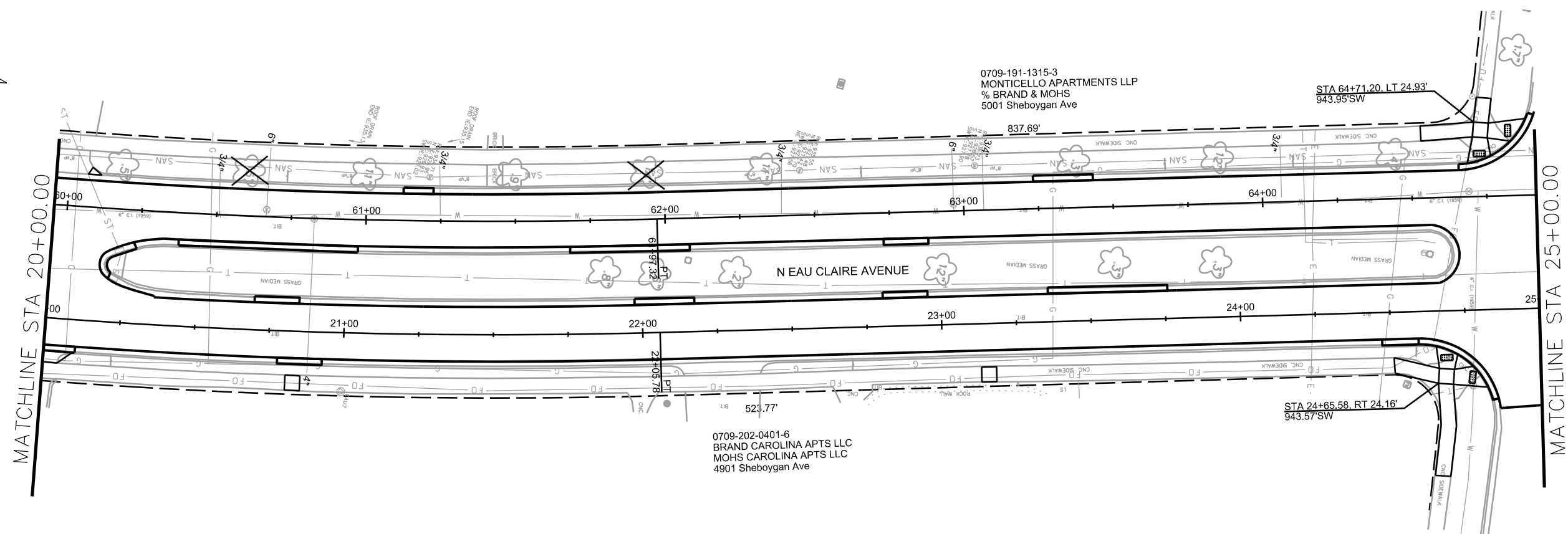
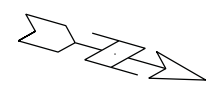


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PLAN AND PROFILE

EAU CLAIRE NORTHBOUND CITY OF MADISON

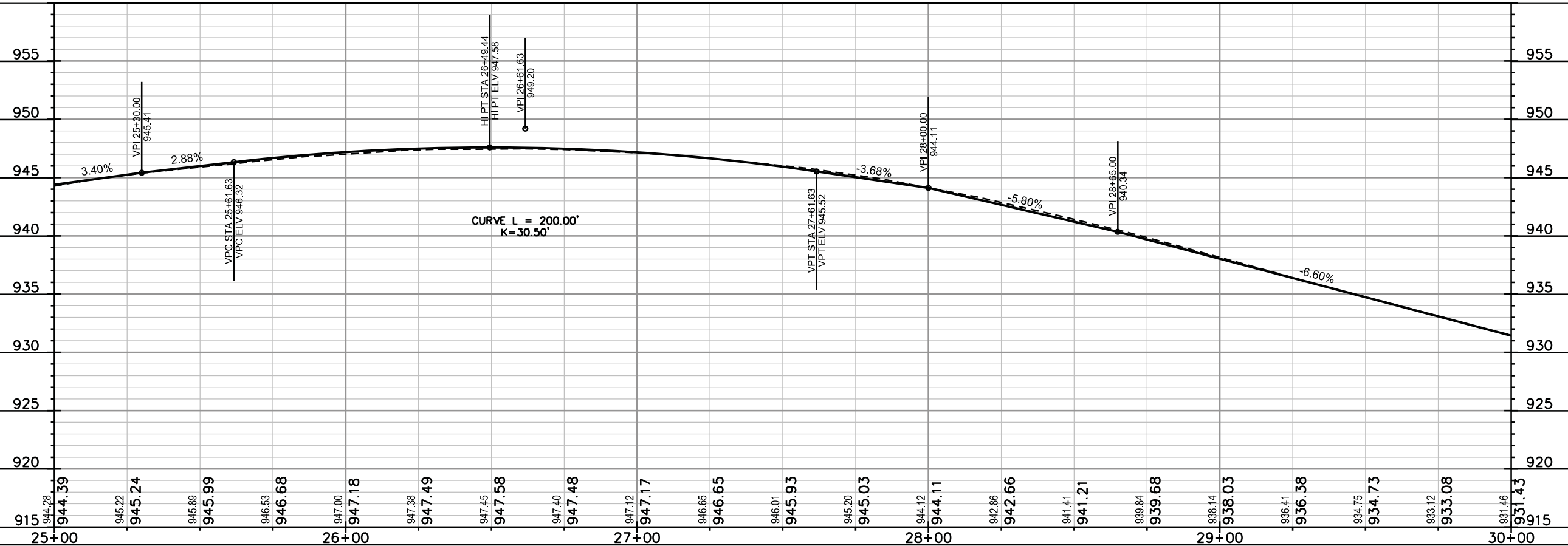
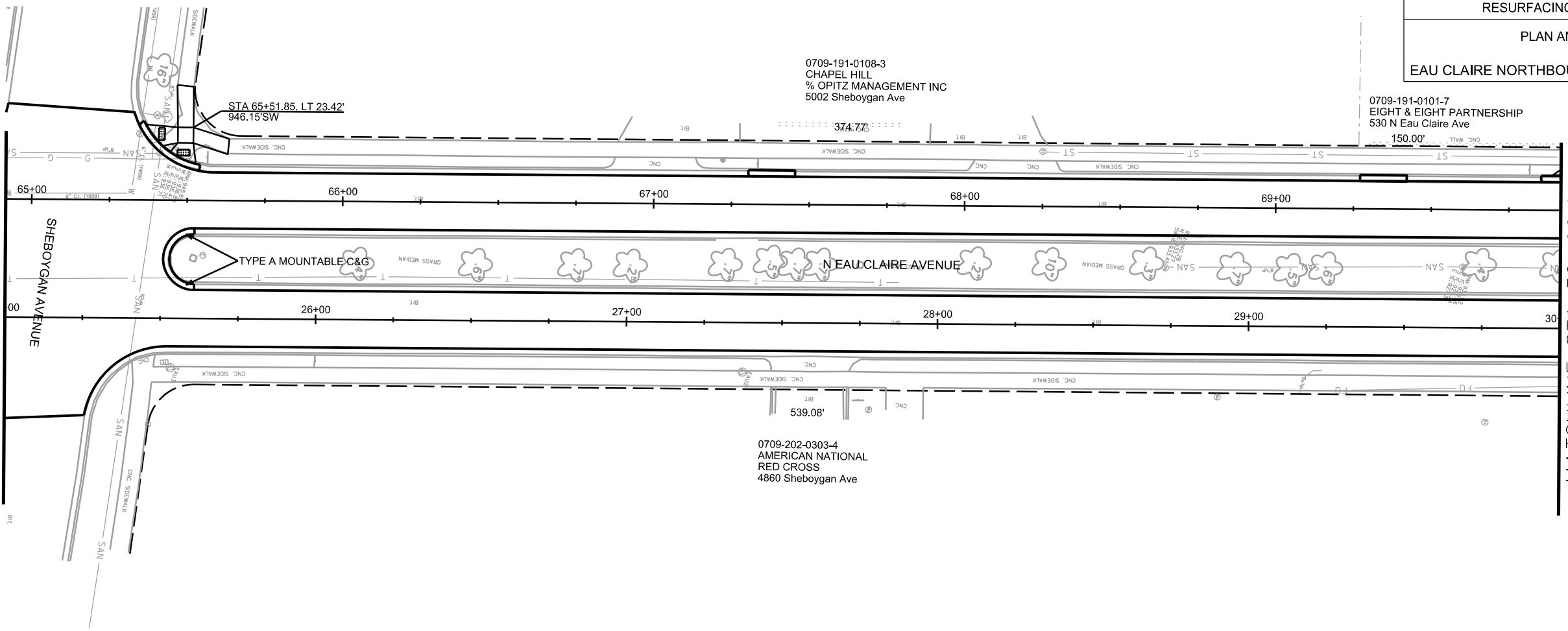
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% OPITZ MANAGEMENT INC  
5002 Sheboygan Ave

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EIGHT & EIGHT PARTNERSHIP  
530 N Eau Claire Ave

0709-202-0303-4  
AMERICAN NATIONAL  
RED CROSS  
4860 Sheboygan Ave

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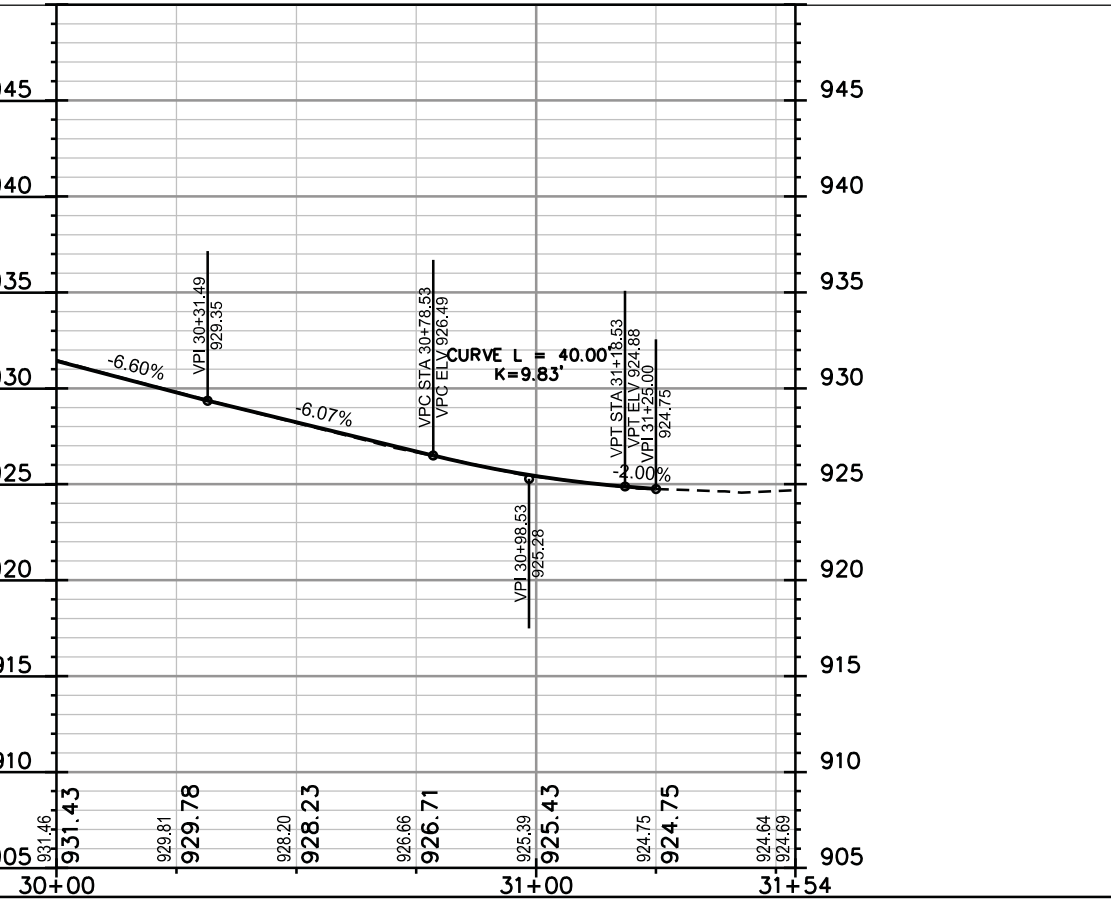
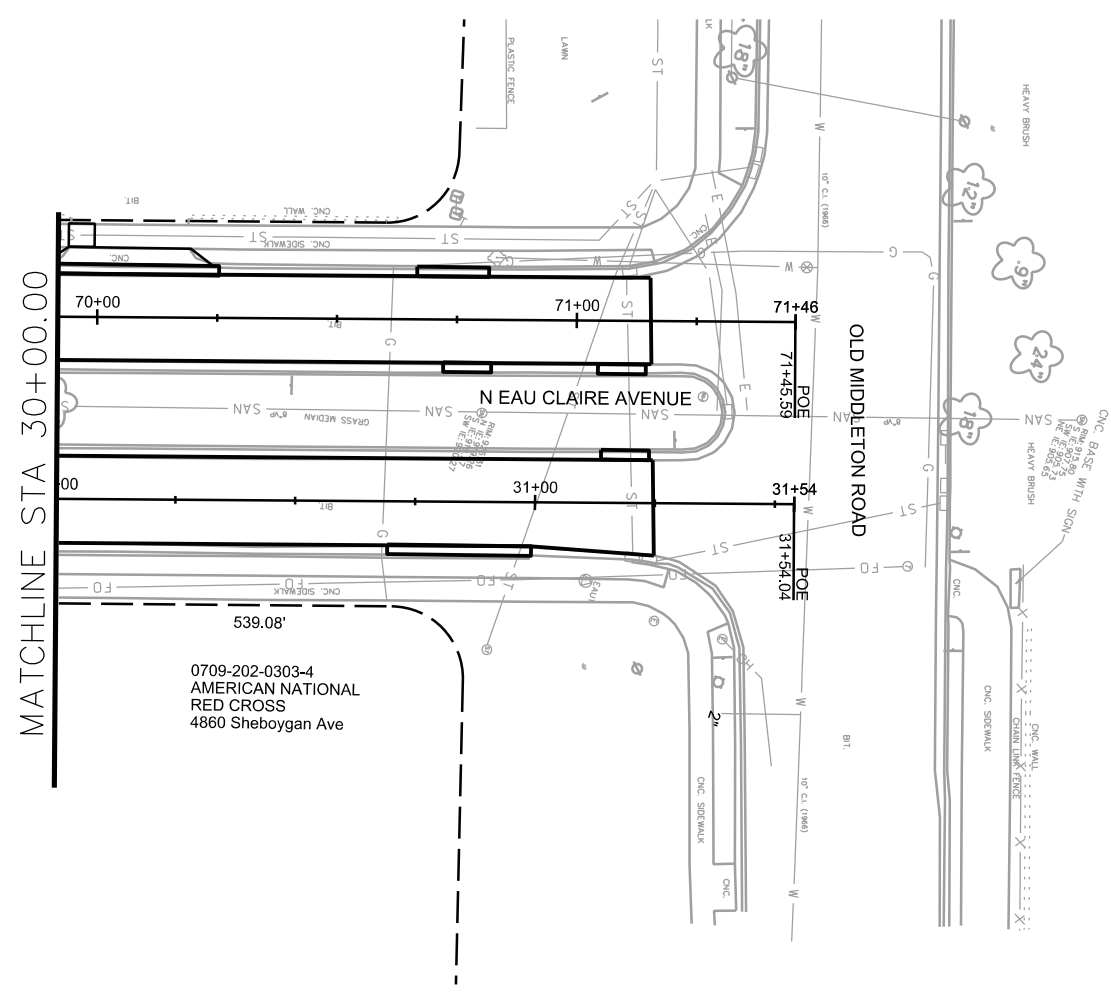
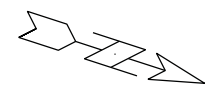


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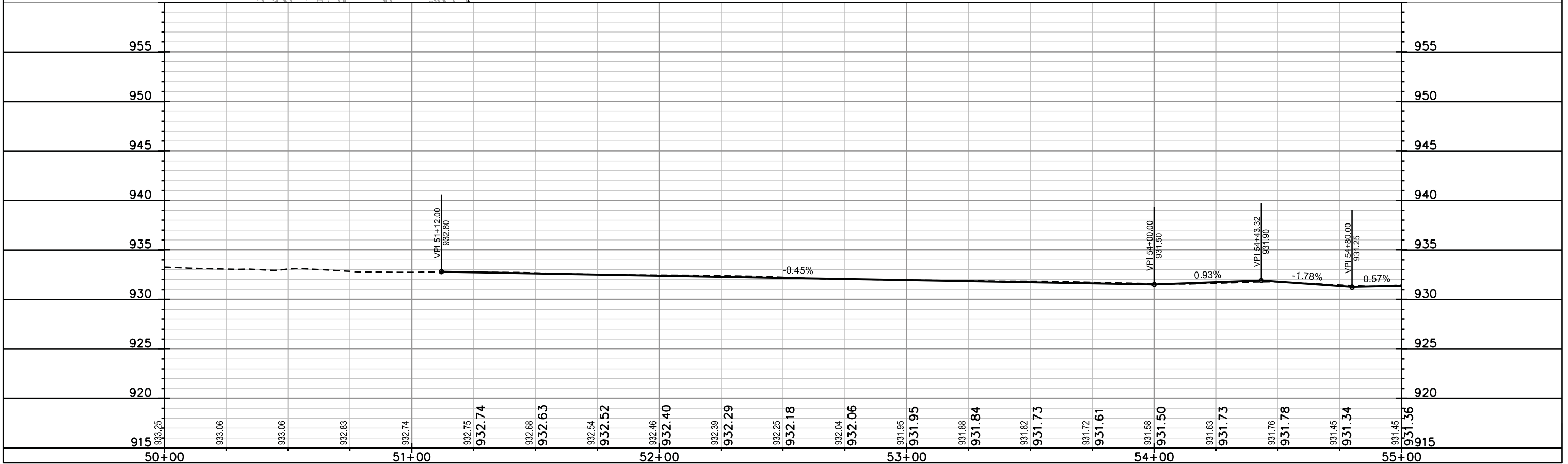
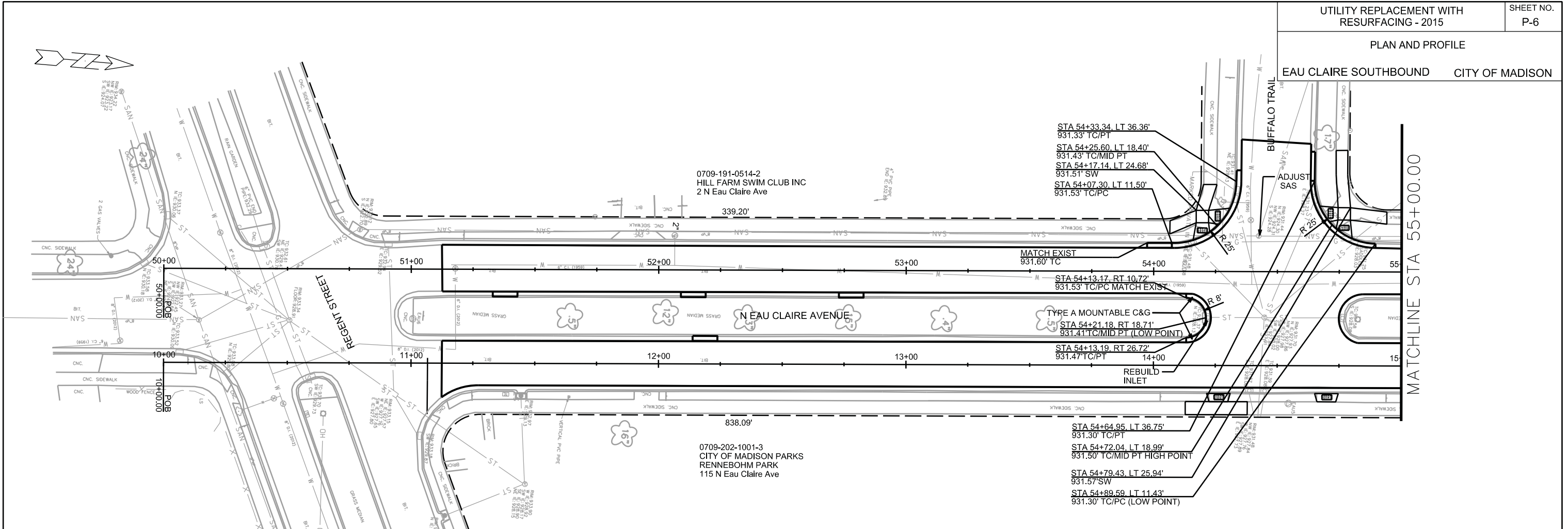
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PLAN AND PROFILE

EAU CLAIRE SOUTHBOUND CITY OF MADISON

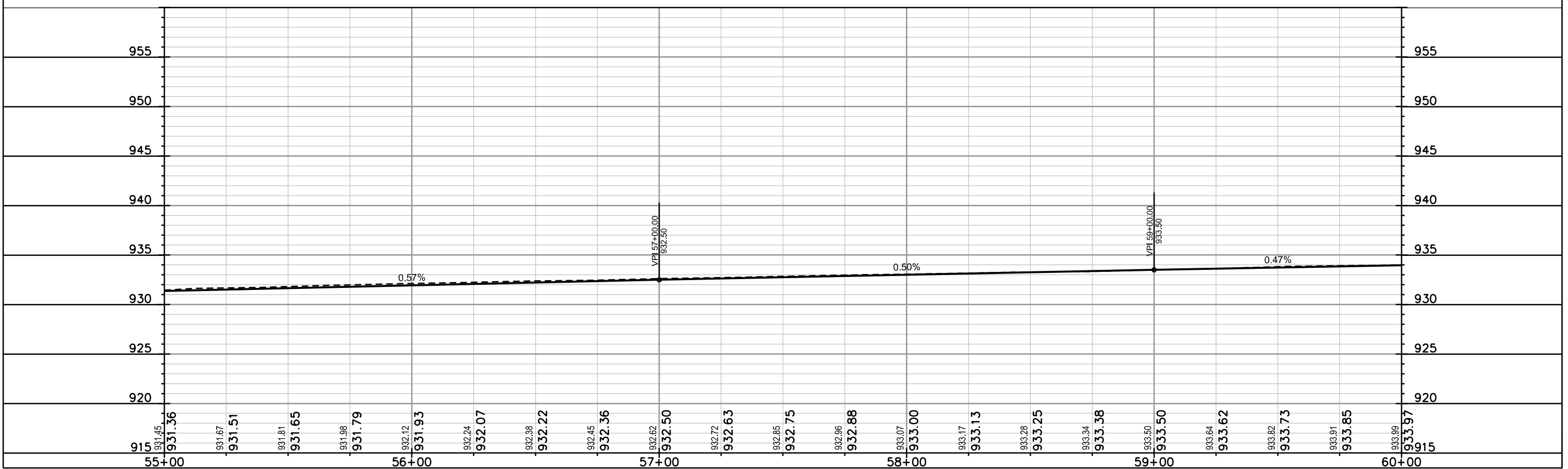
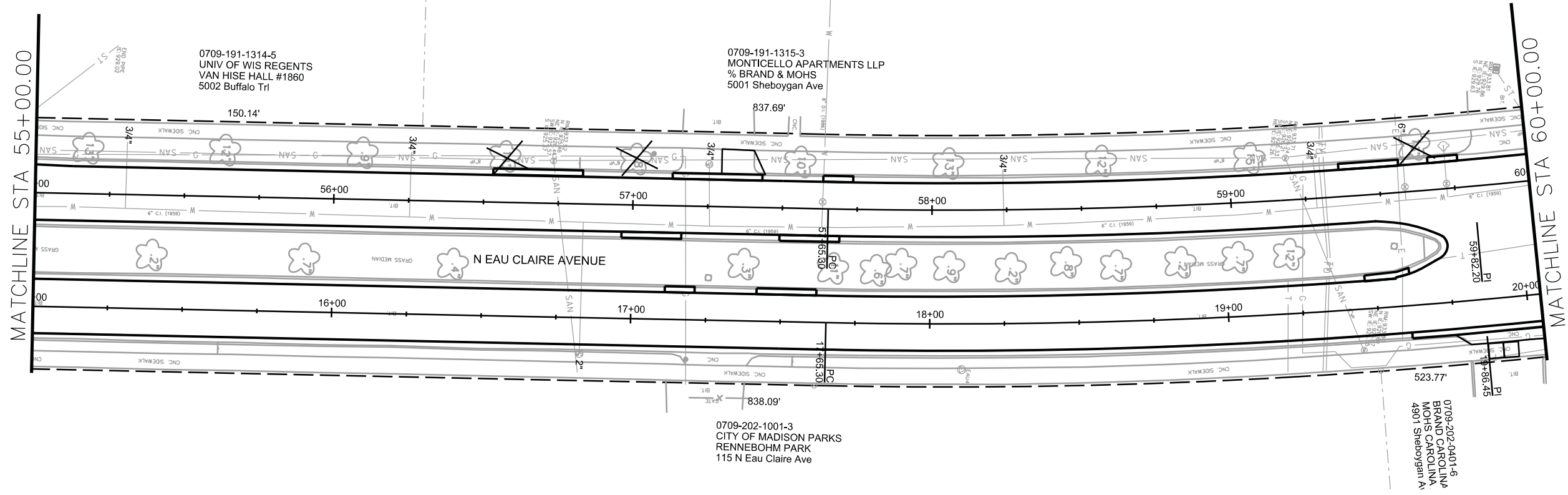
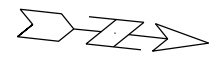


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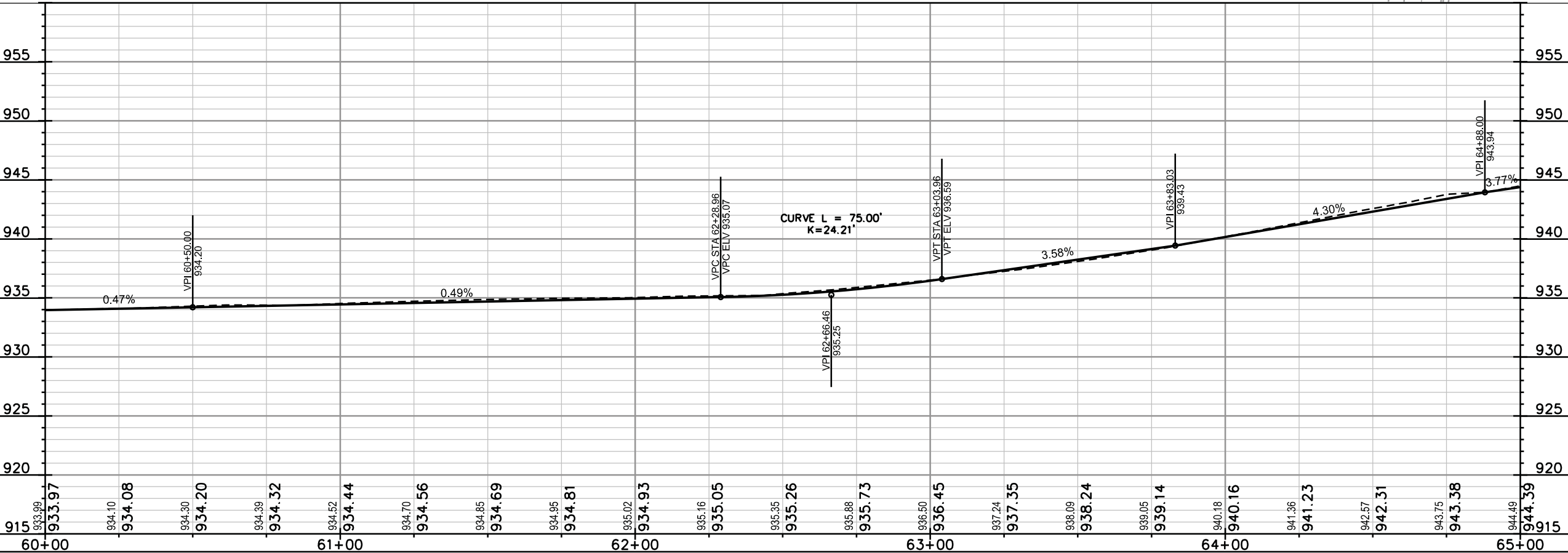
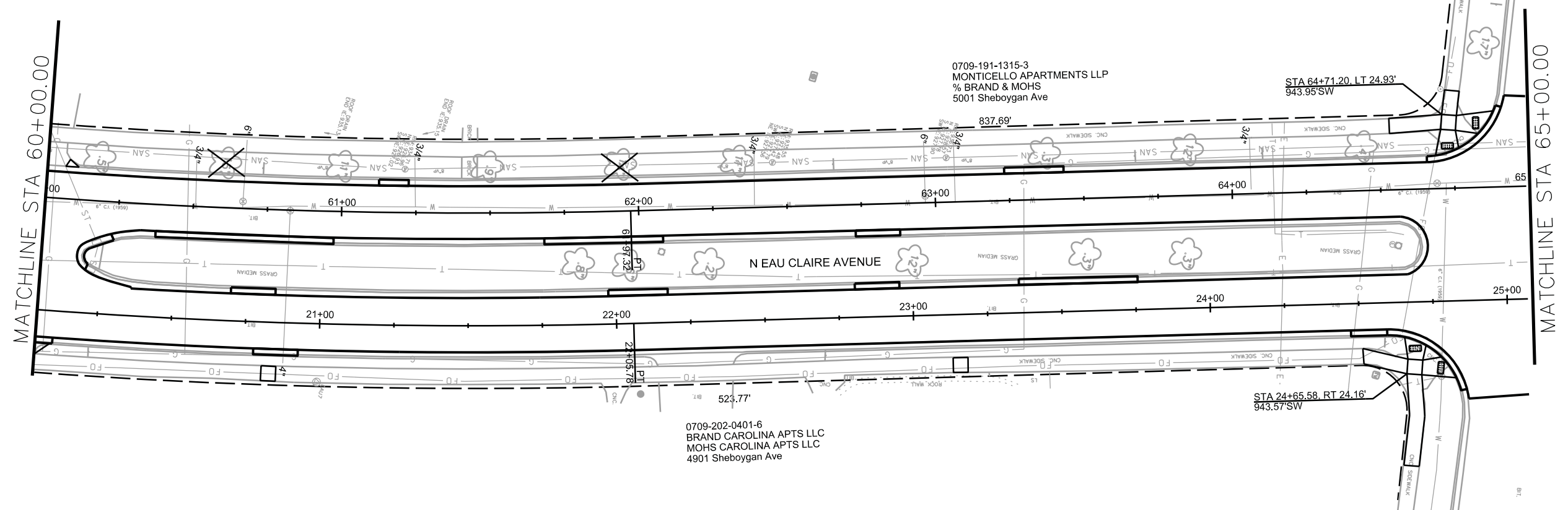
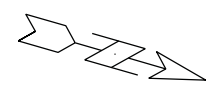


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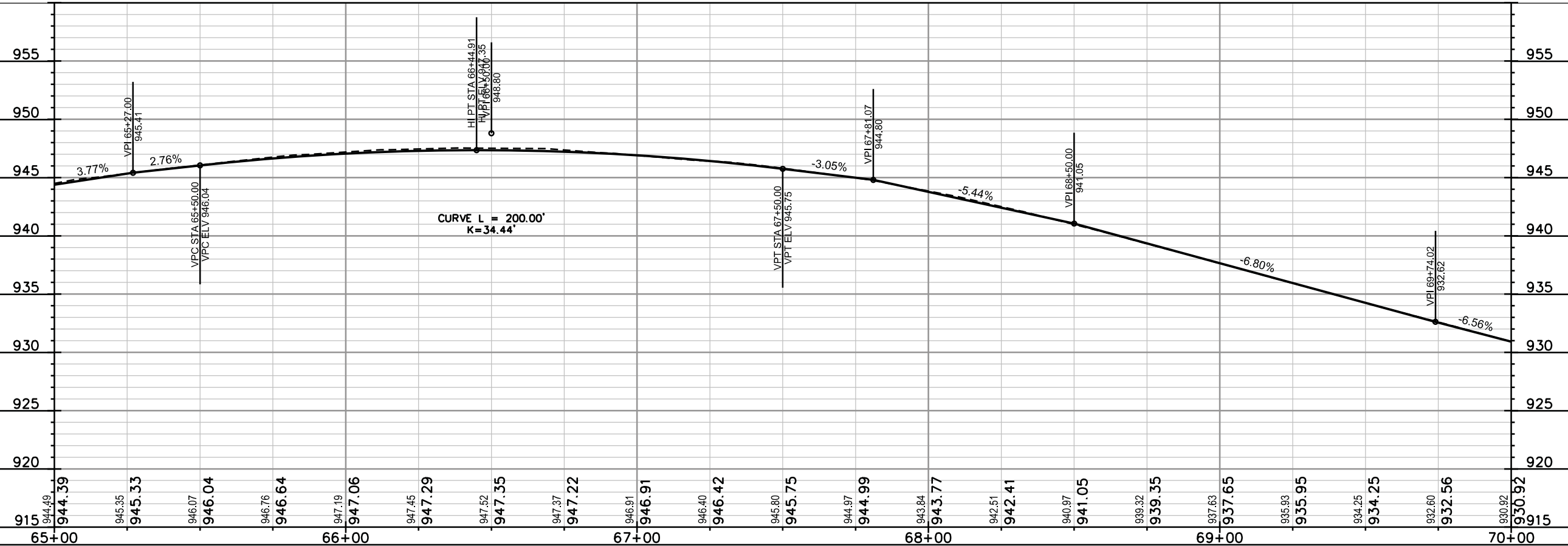
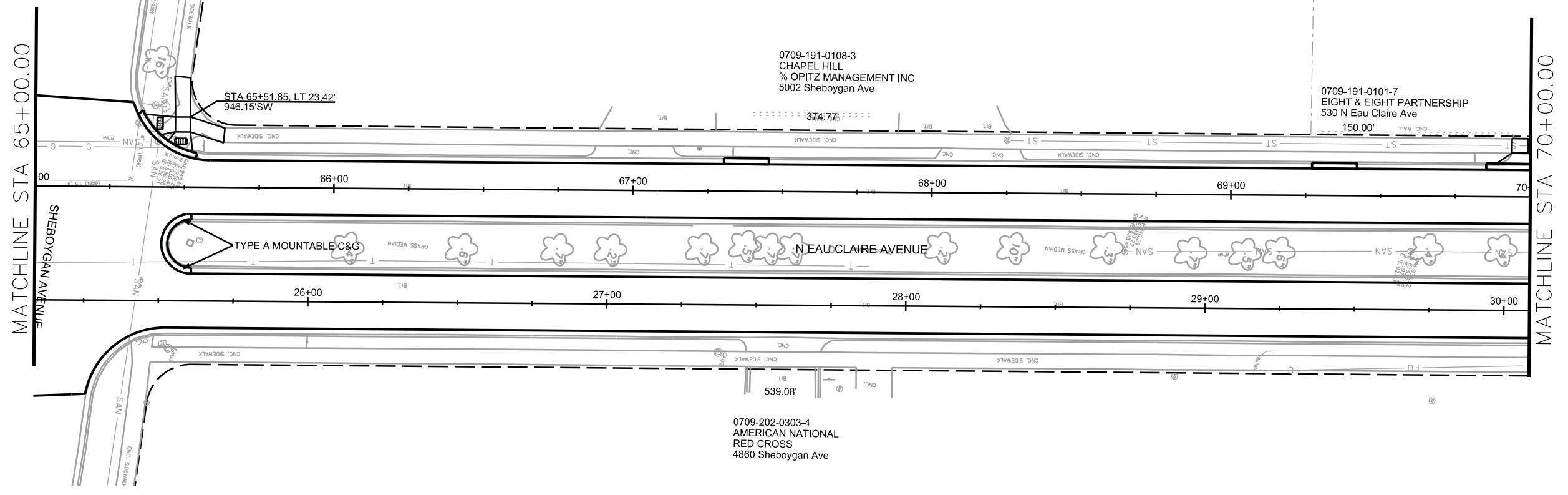
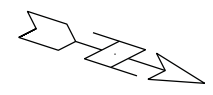


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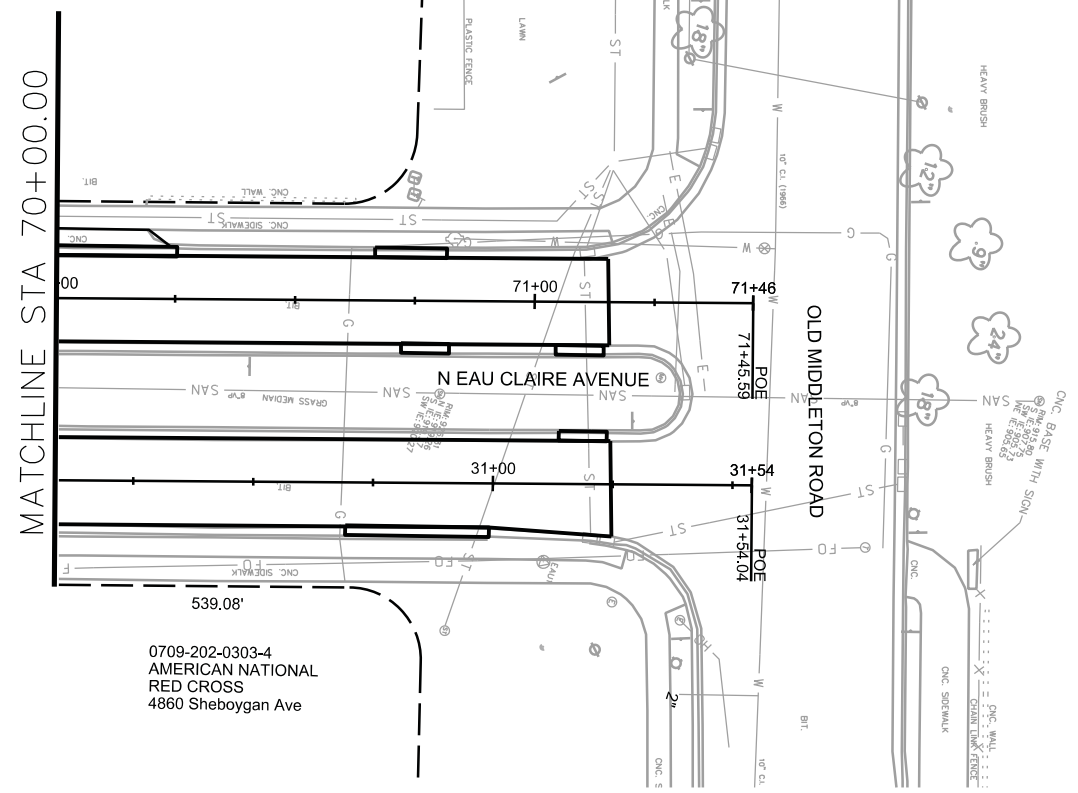
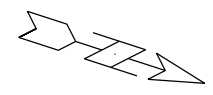
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0709-202-0303-4  
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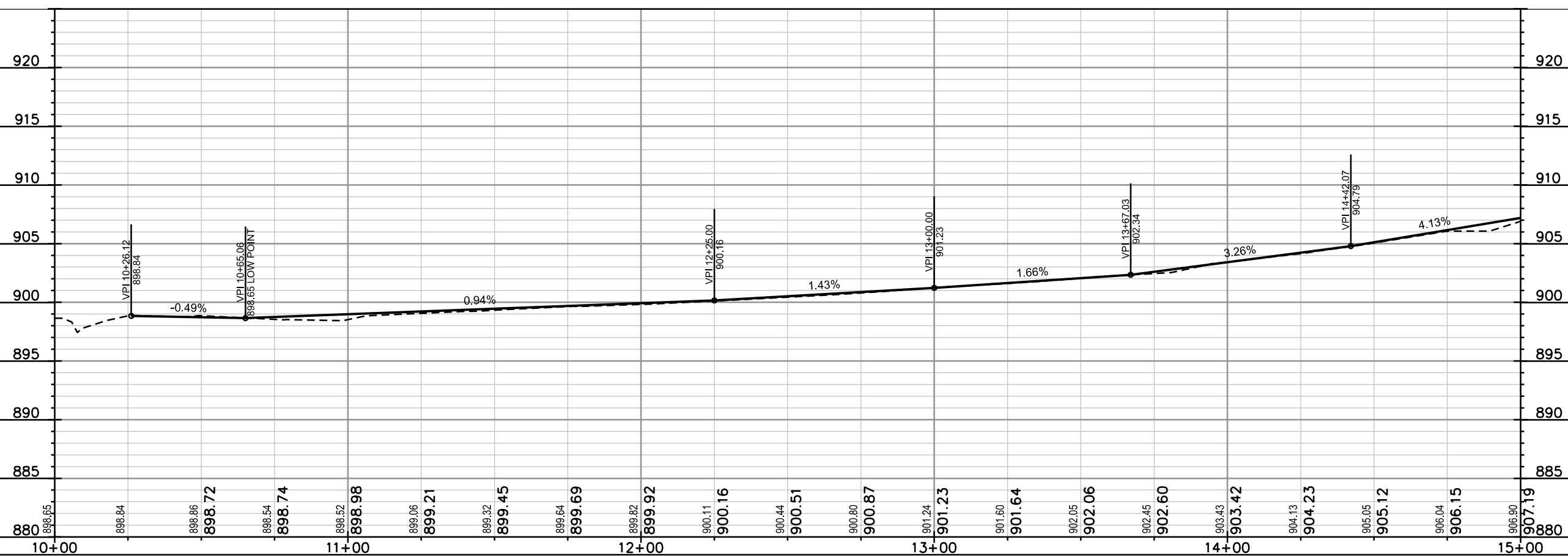
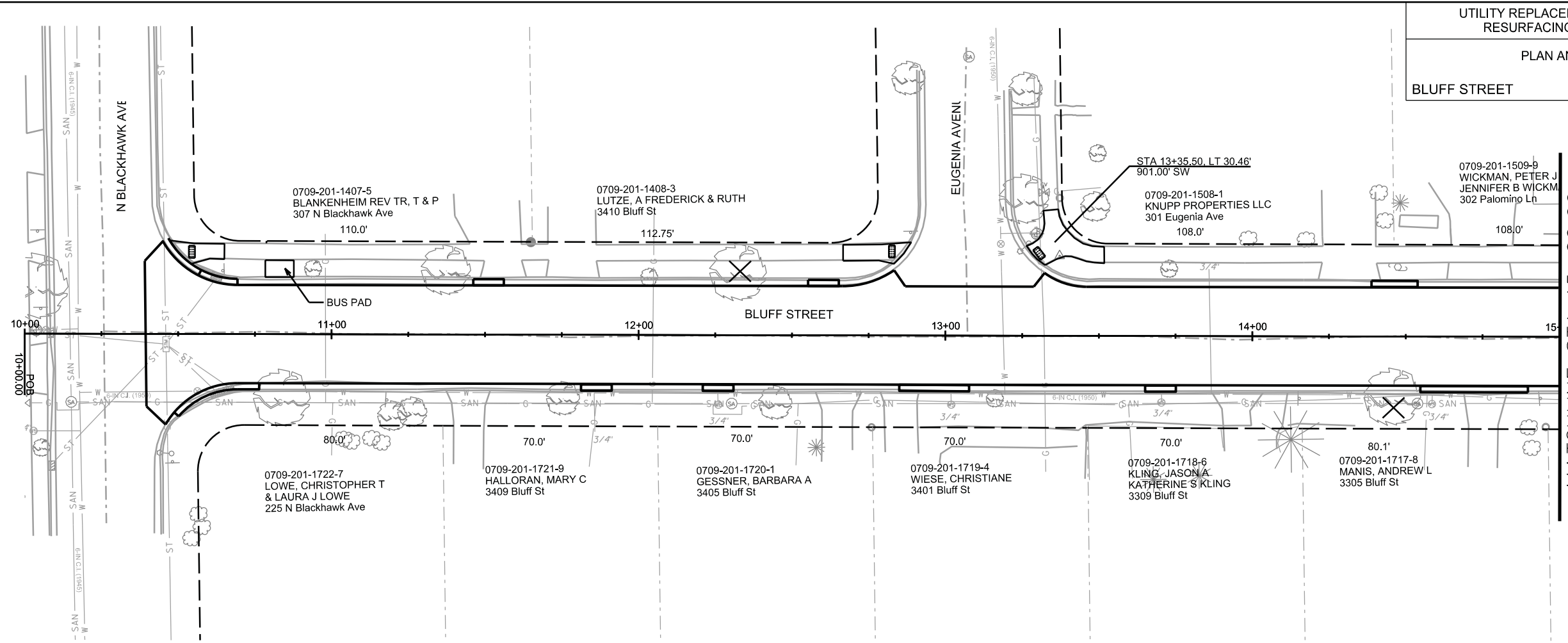


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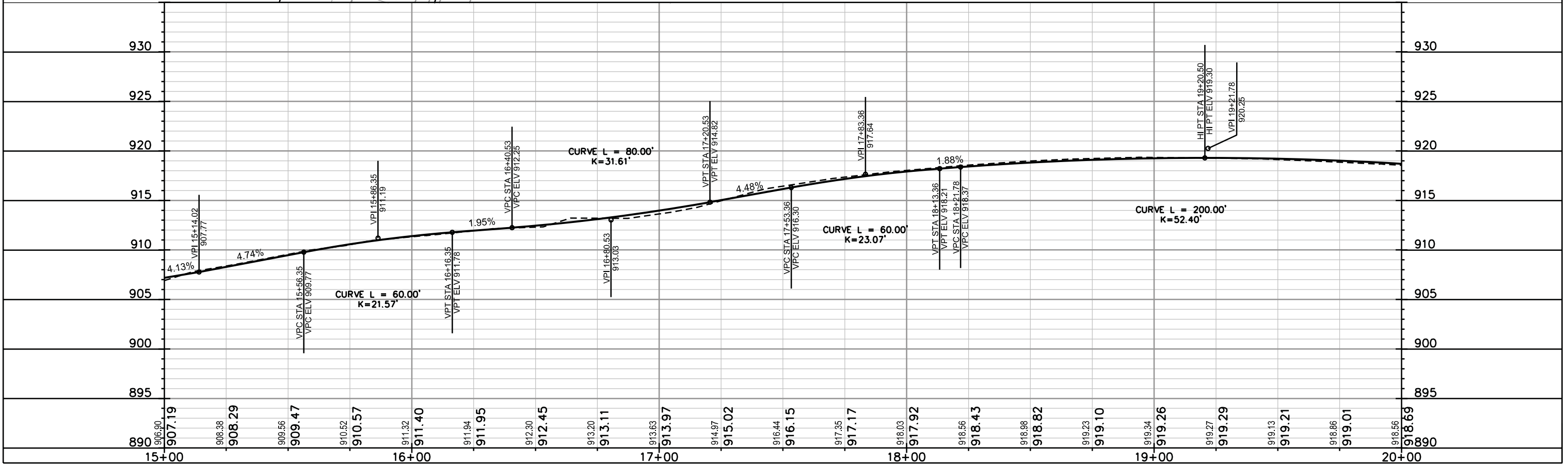
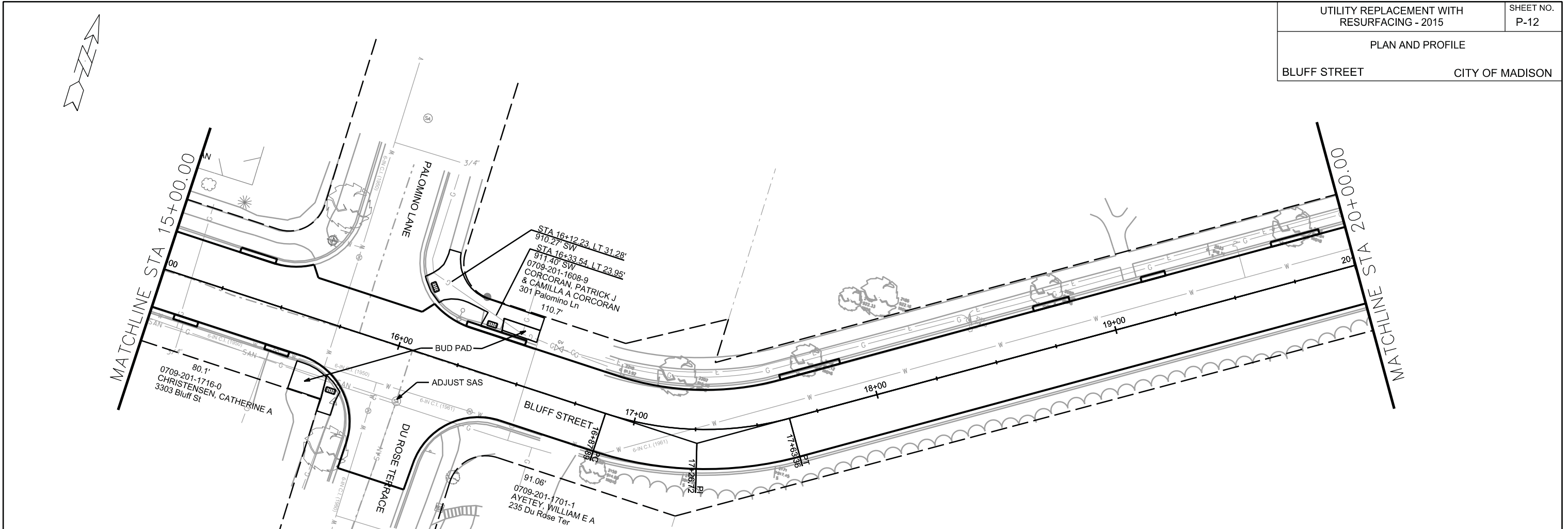


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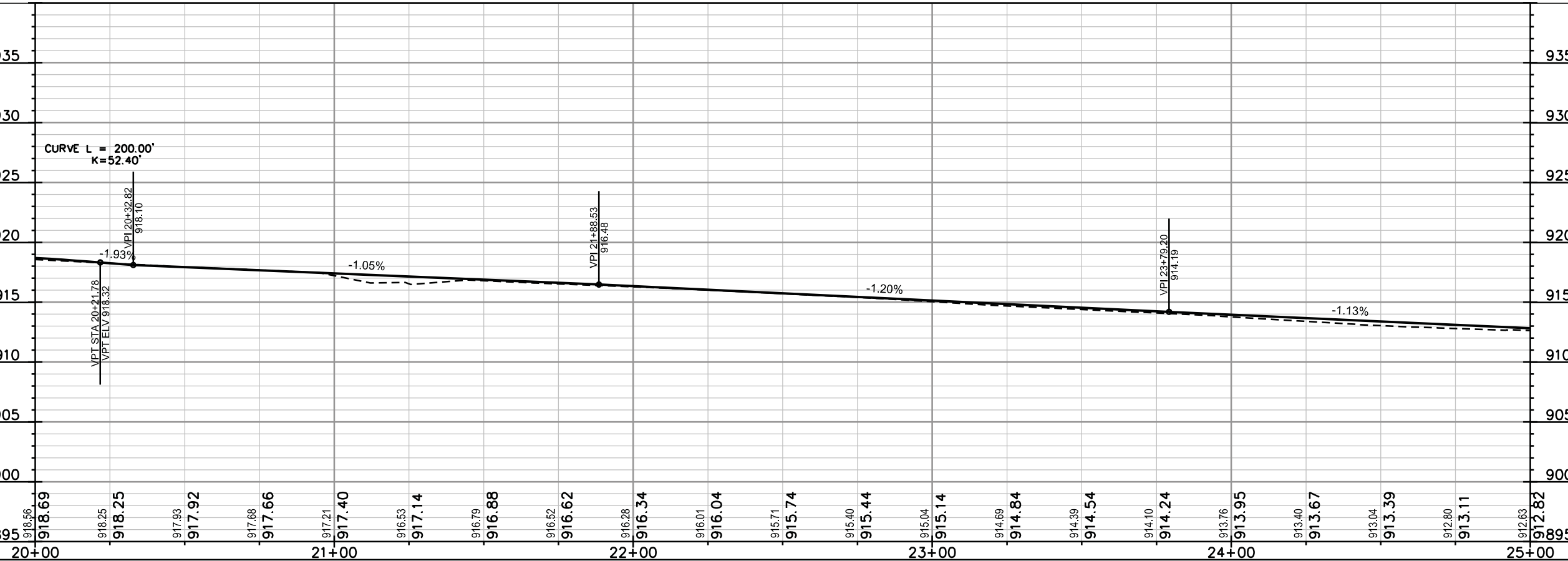
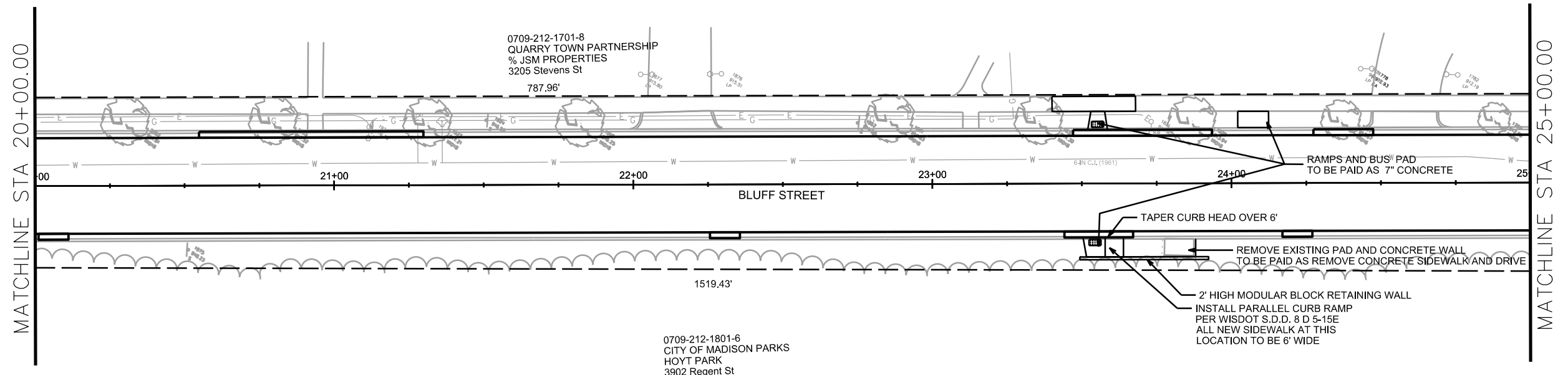
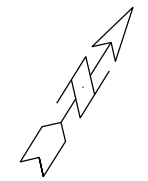


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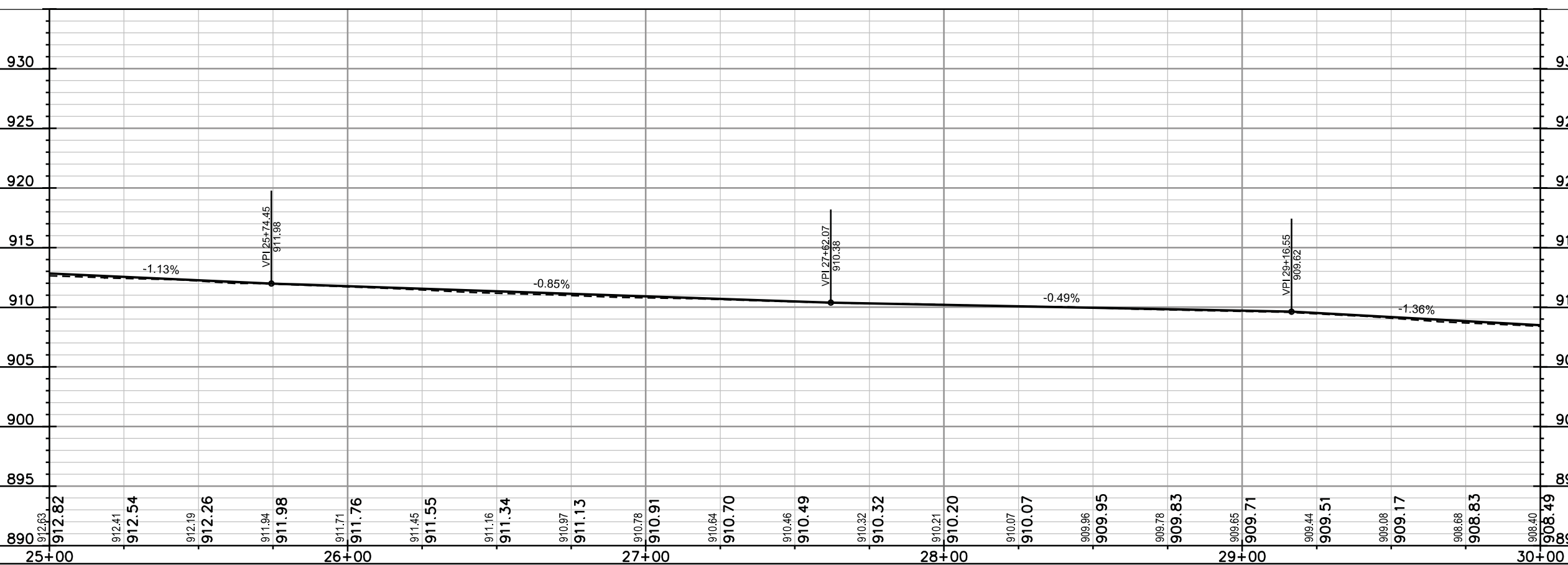
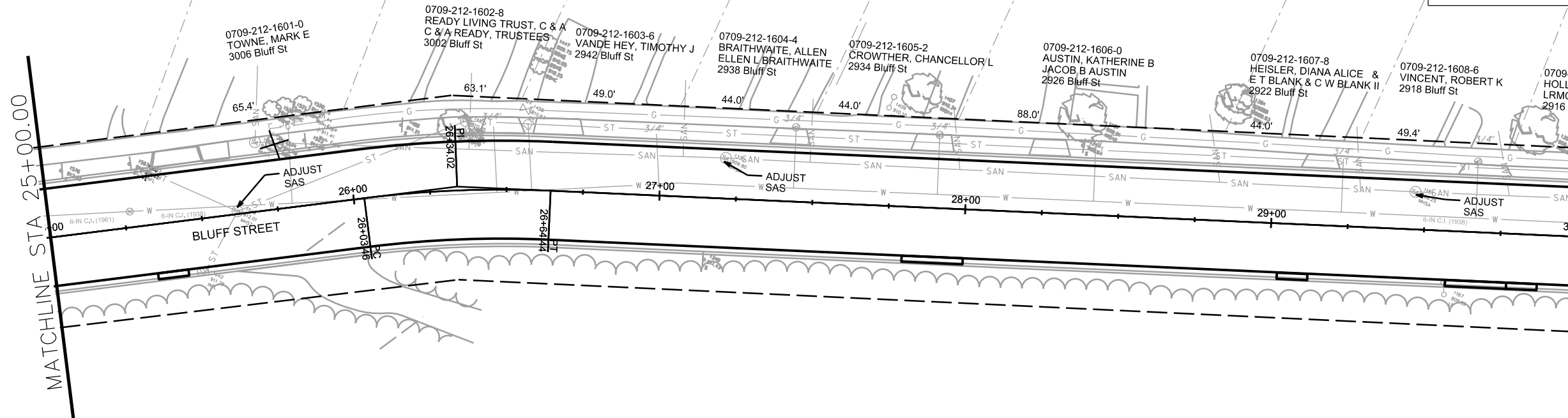
PLAN AND PROFILE

BLUFF STREET

CITY OF MADISON

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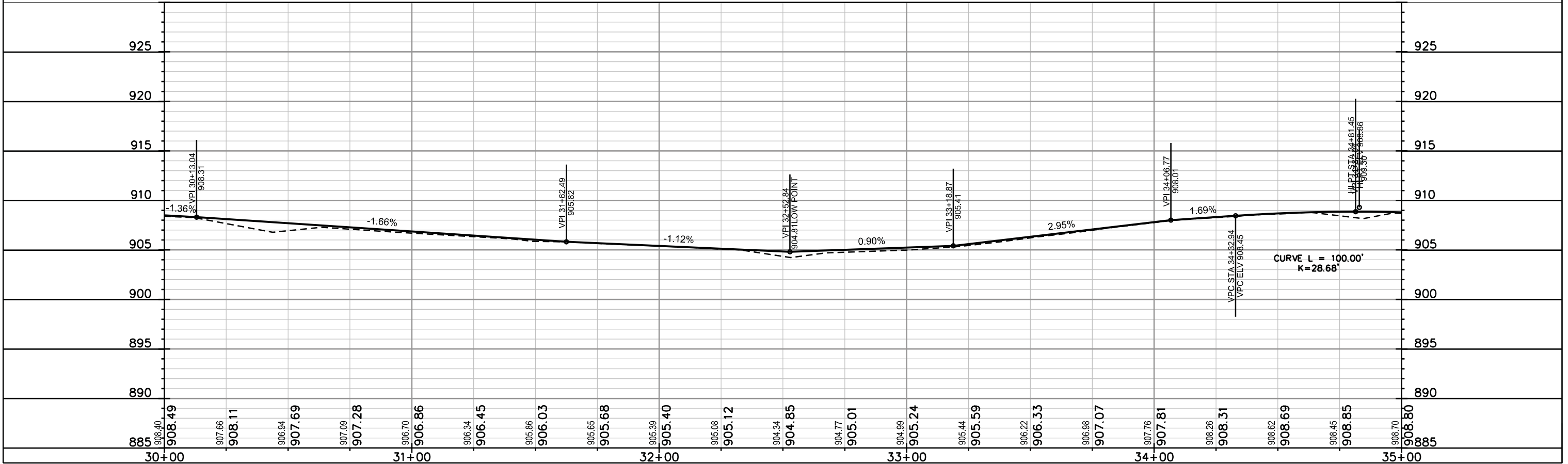
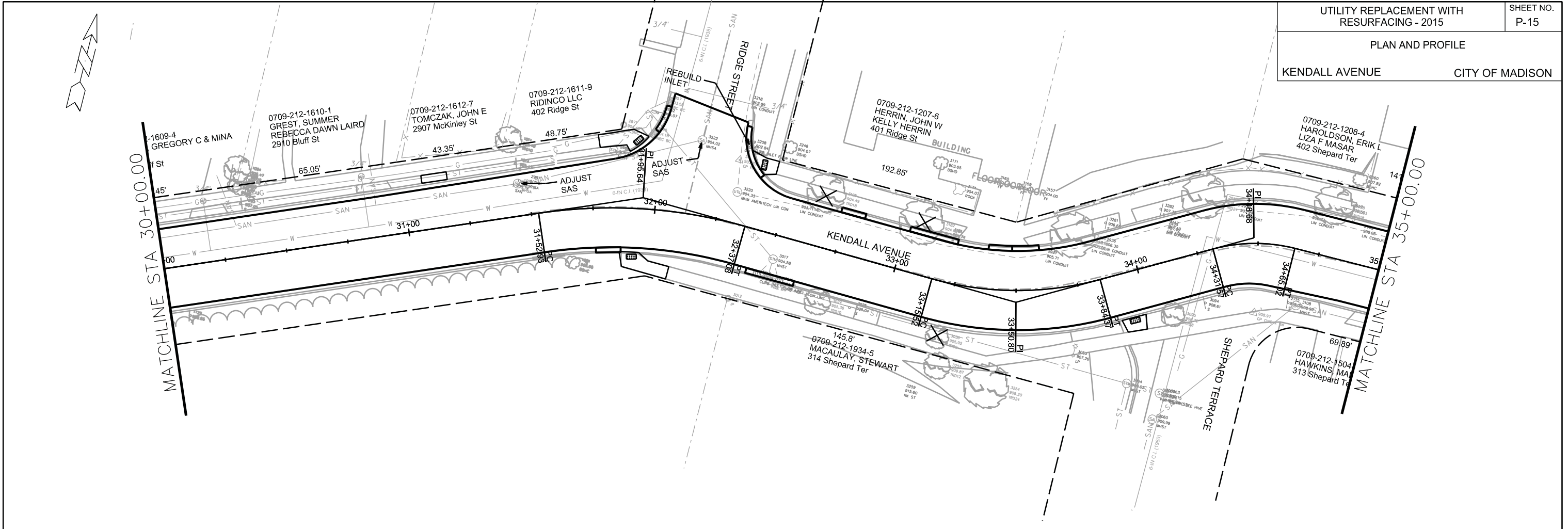


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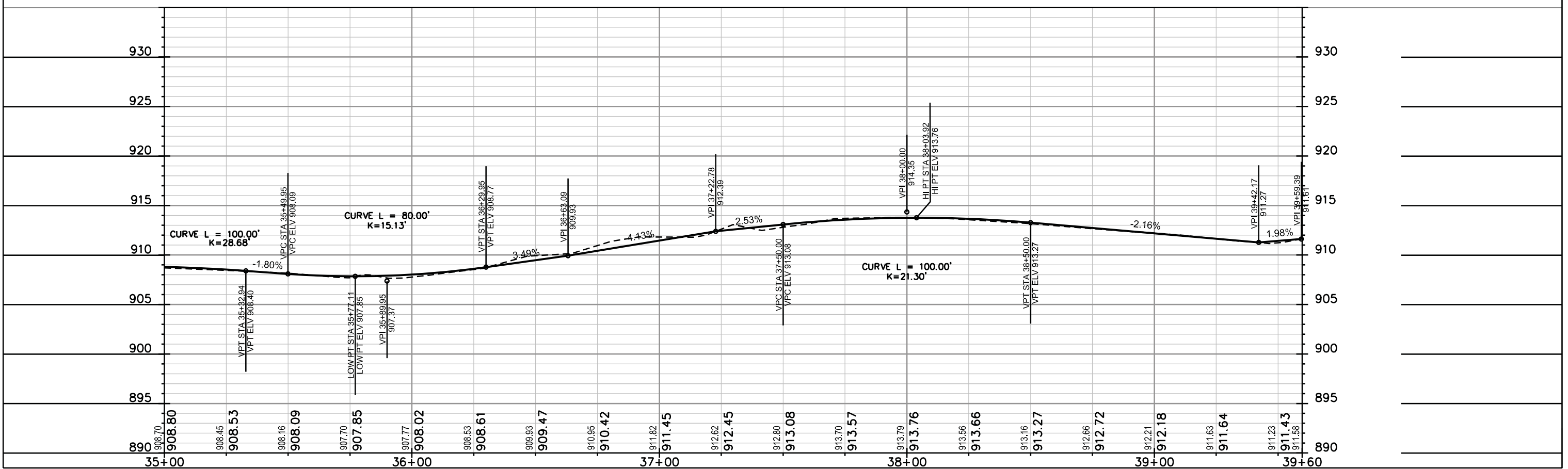
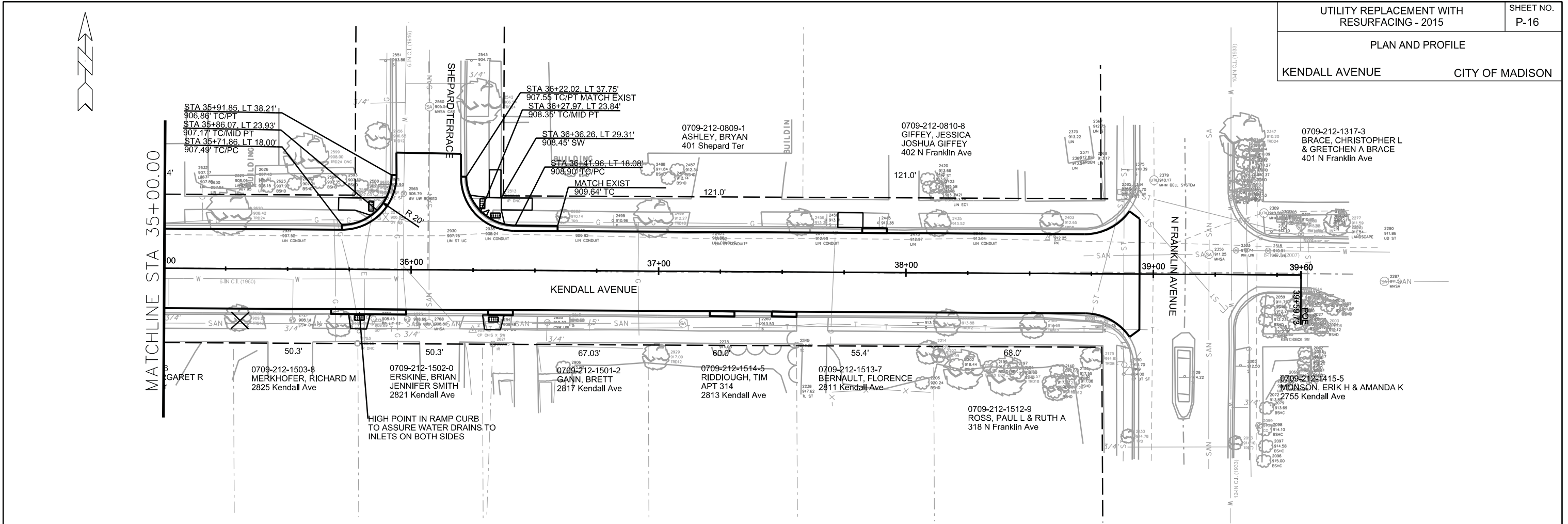


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

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

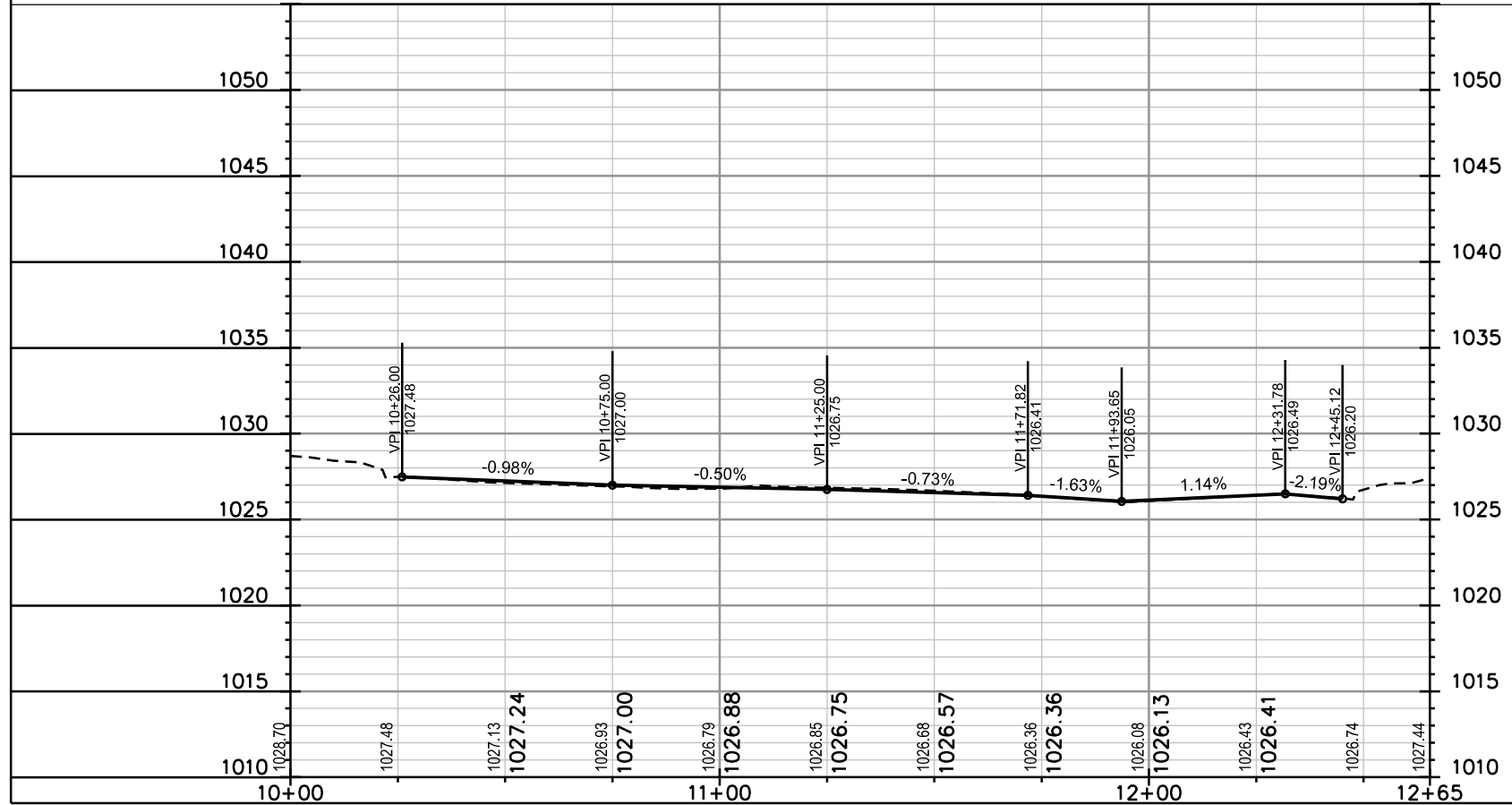
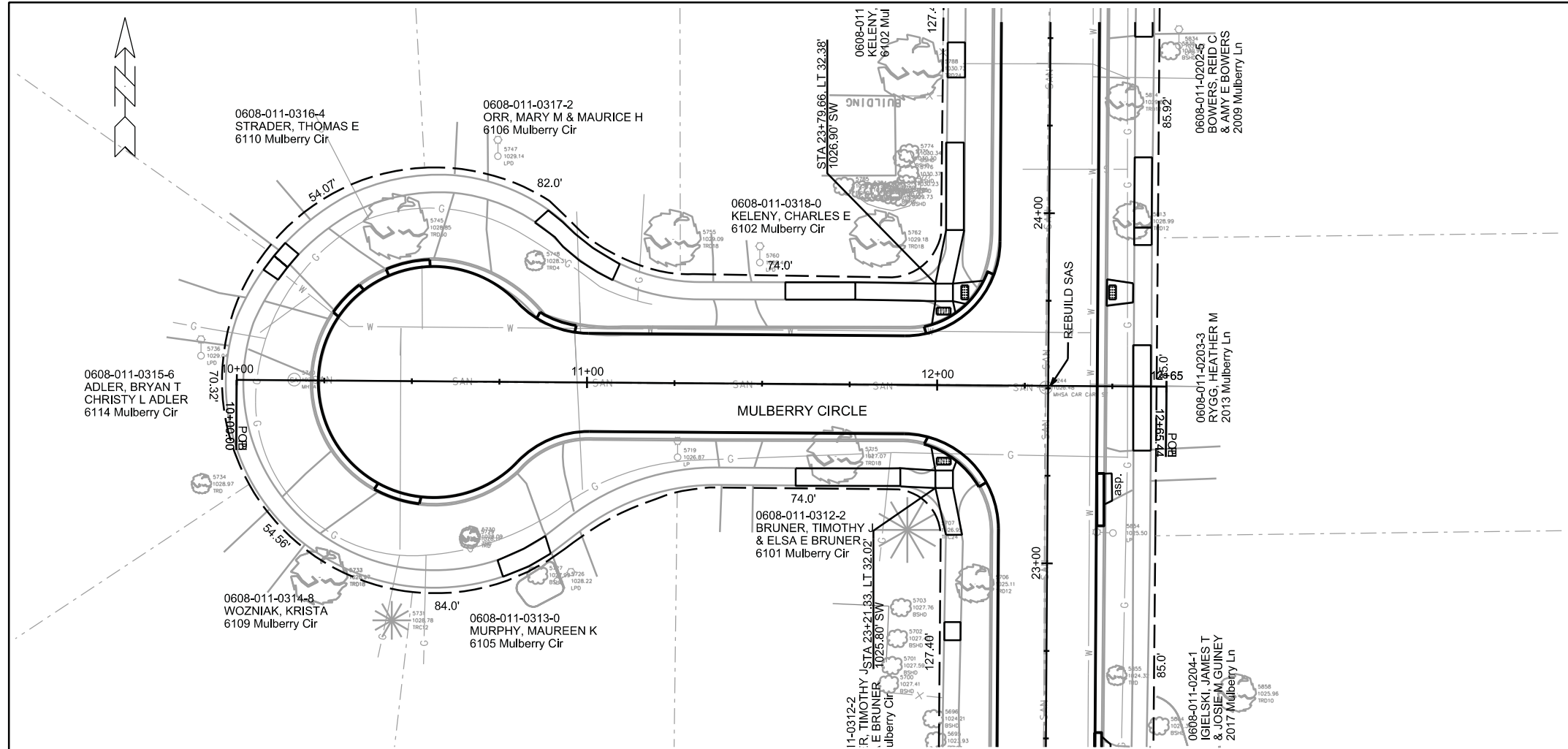
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

MULBERRY CIRCLE

CITY OF MADISON



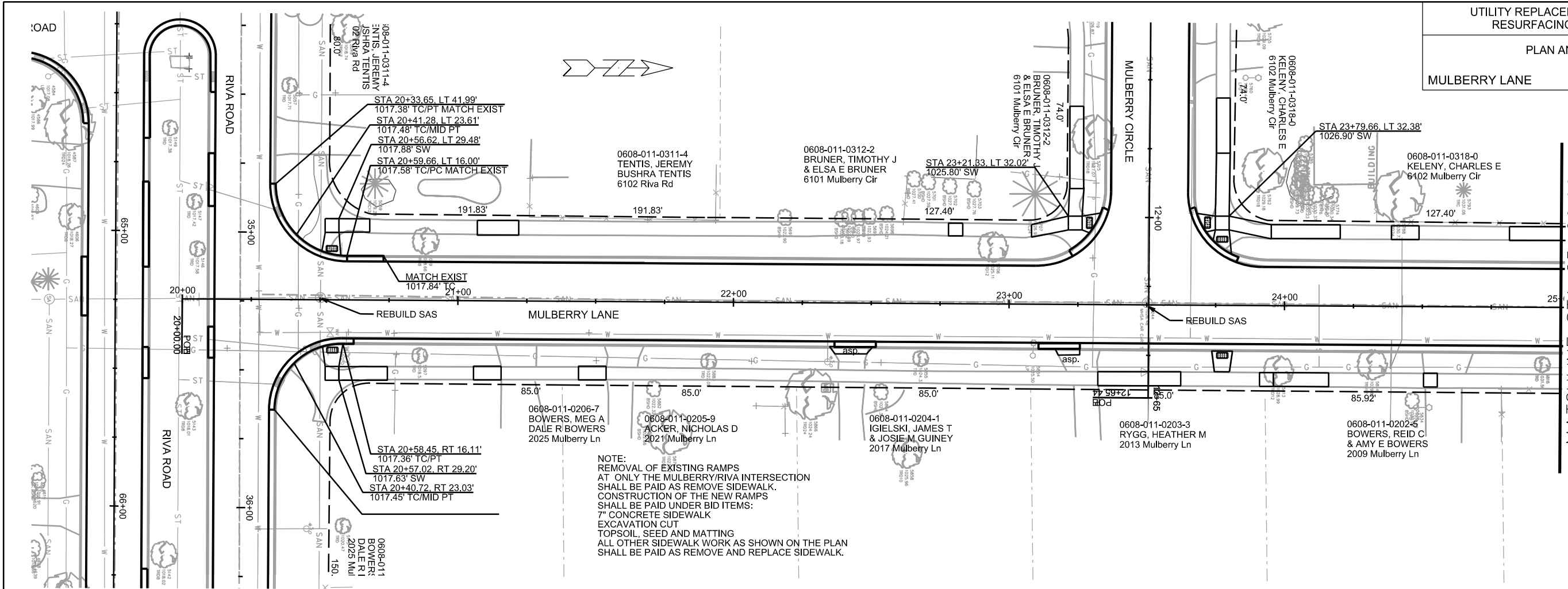
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PLOT NAME: \_\_\_\_\_

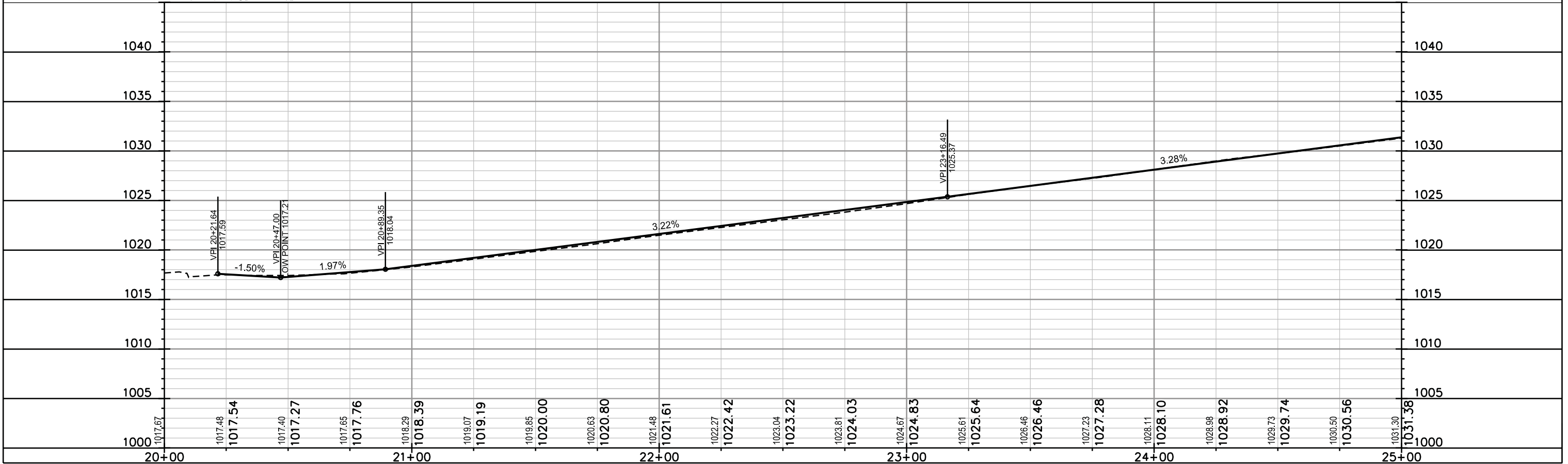
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



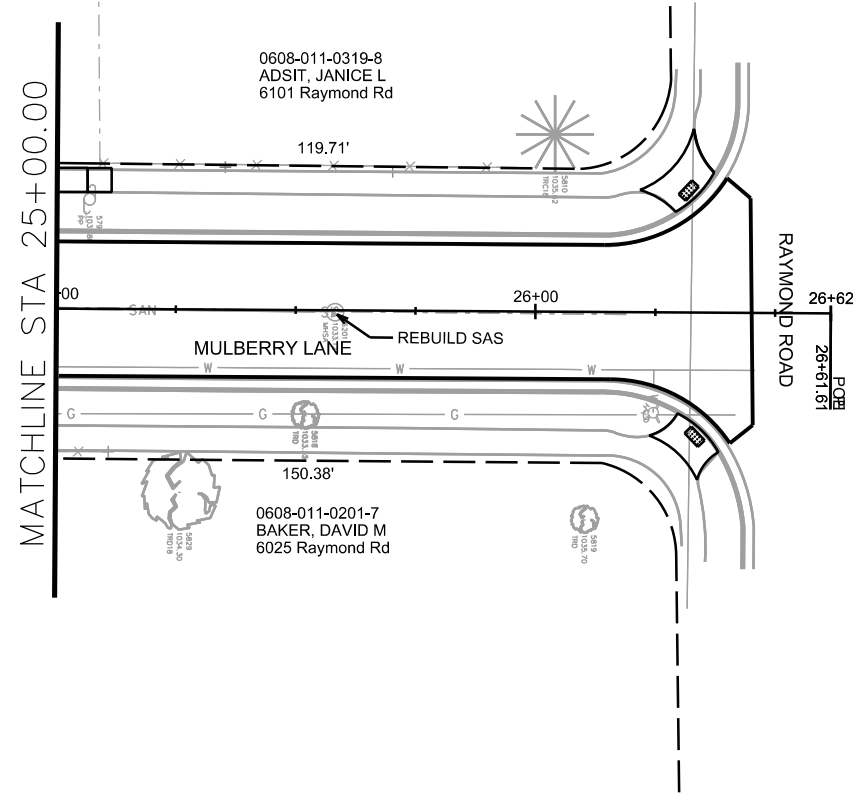


NOTE:  
 REMOVAL OF EXISTING RAMPS AT ONLY THE MULBERRY/RIVA INTERSECTION SHALL BE PAID AS REMOVE SIDEWALK. CONSTRUCTION OF THE NEW RAMPS SHALL BE PAID UNDER BID ITEMS: 7" CONCRETE SIDEWALK EXCAVATION CUT TOPSOIL, SEED AND MATTING ALL OTHER SIDEWALK WORK AS SHOWN ON THE PLAN SHALL BE PAID AS REMOVE AND REPLACE SIDEWALK.



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

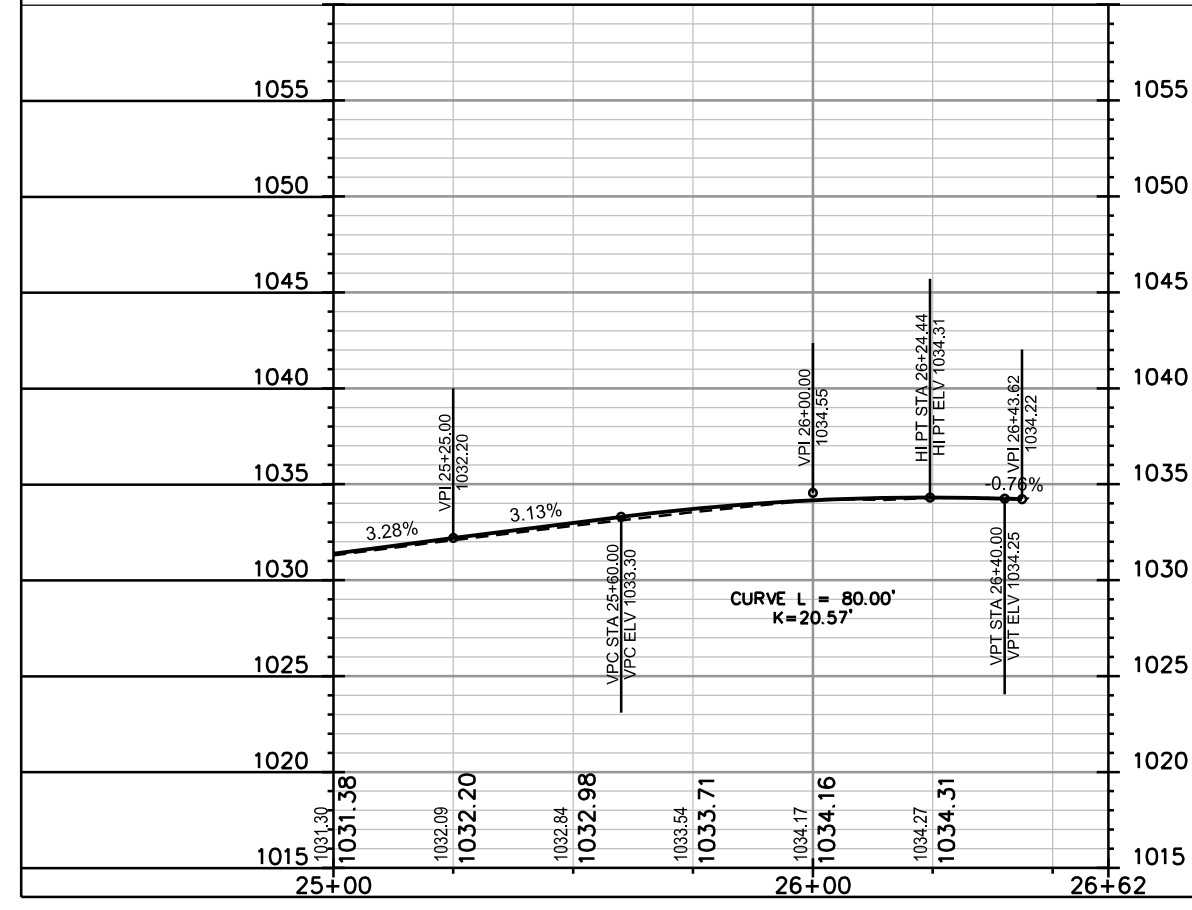


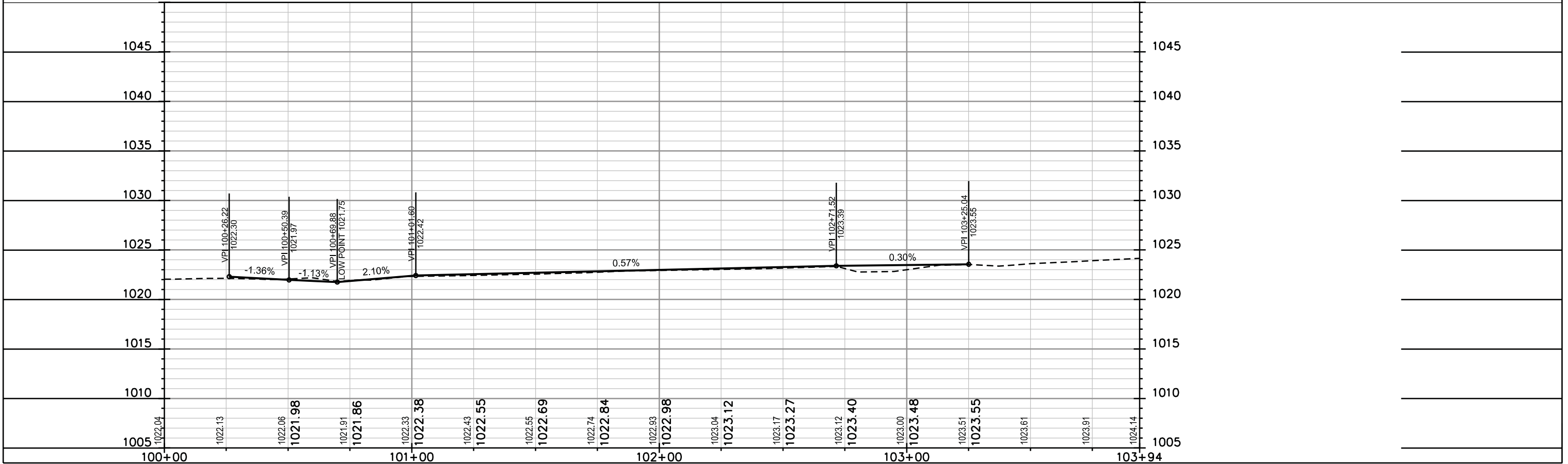
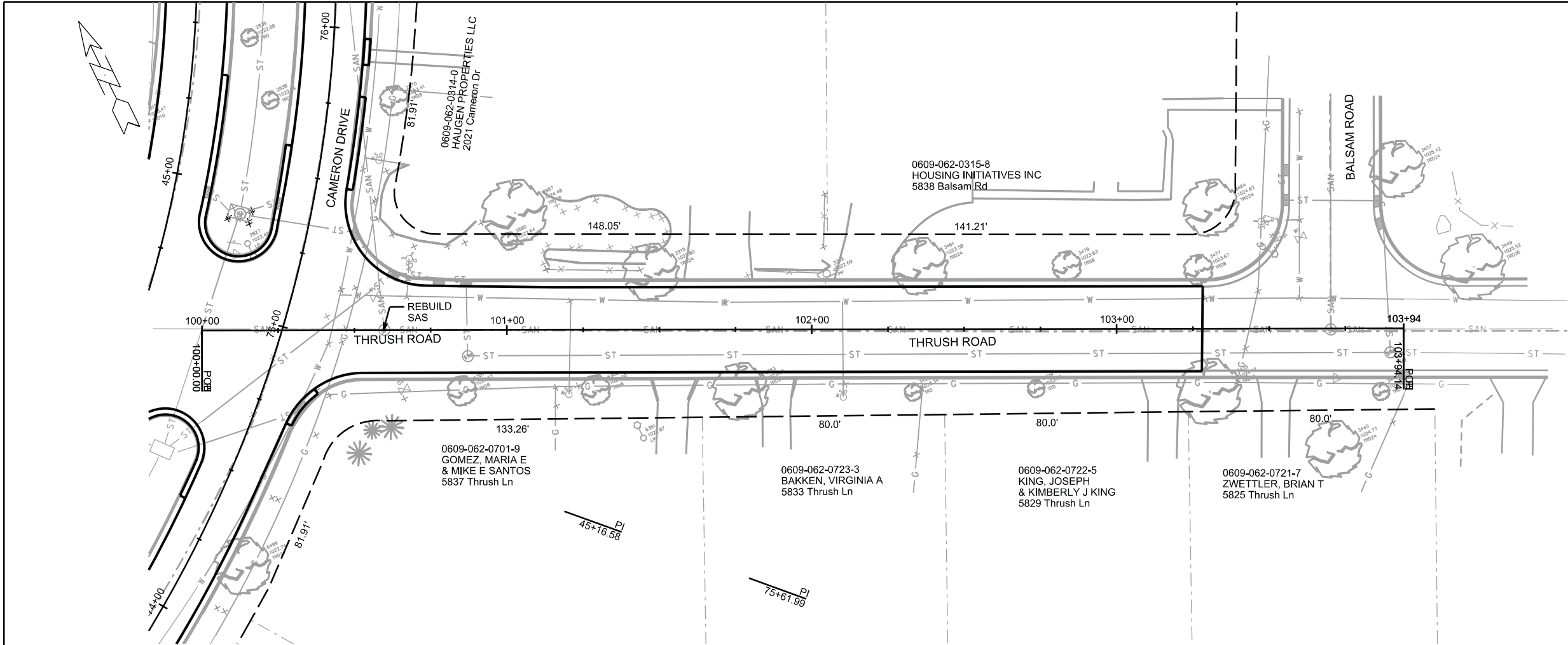


PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





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

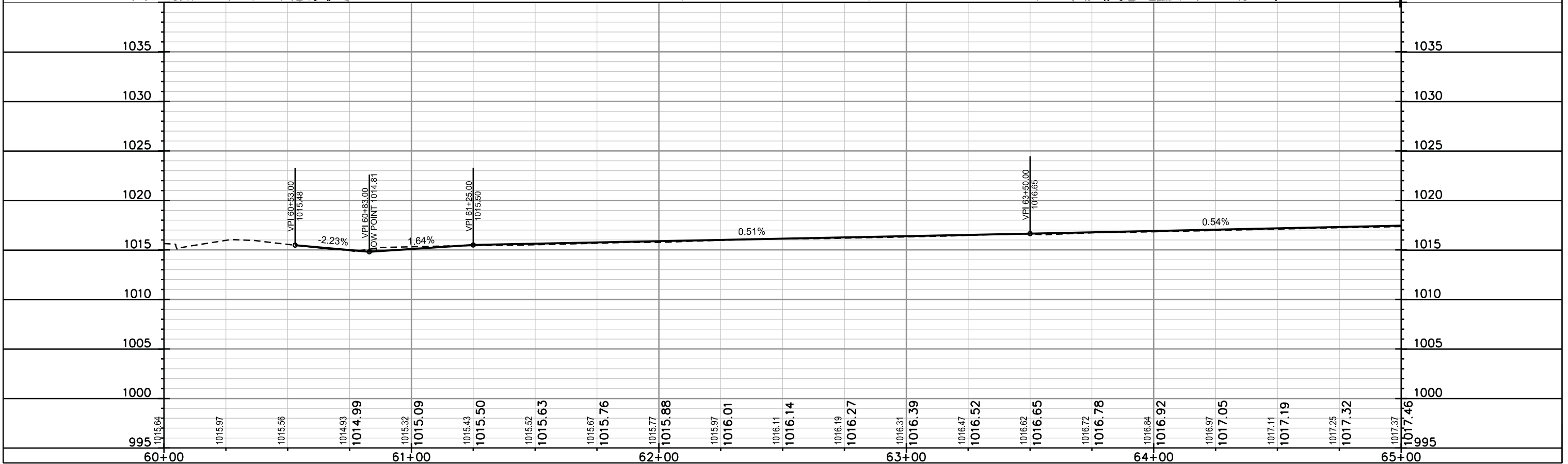
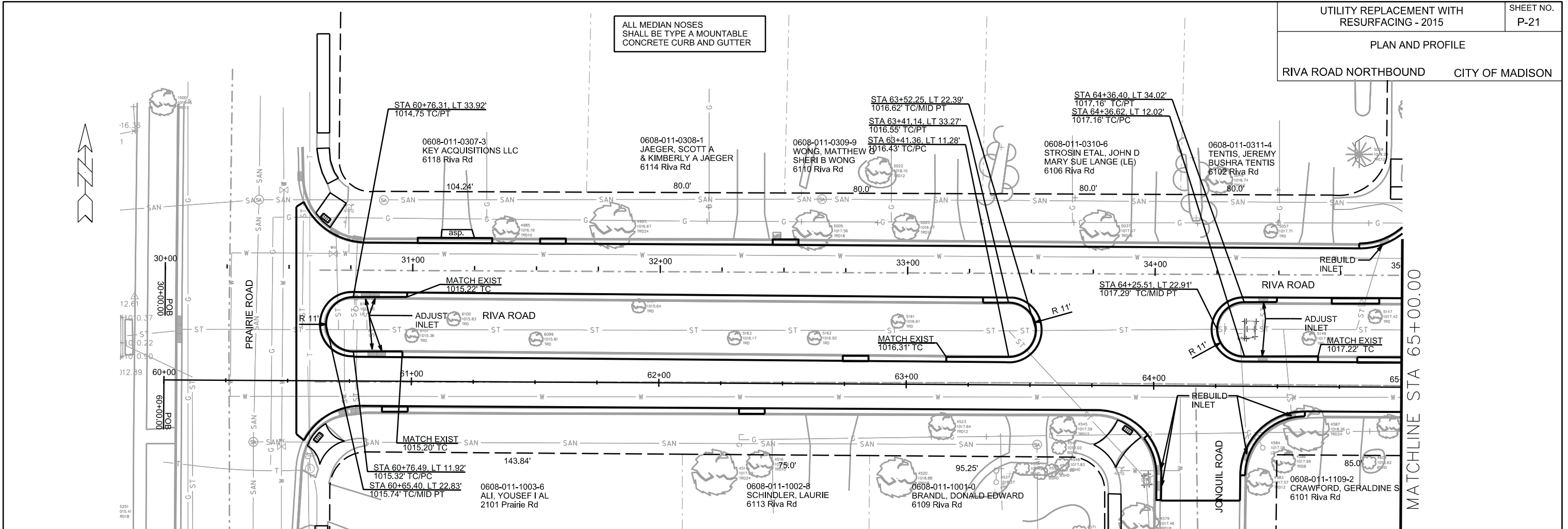
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
RIVA ROAD NORTHBOUND CITY OF MADISON

ALL MEDIAN NOSES SHALL BE TYPE A MOUNTABLE CONCRETE CURB AND GUTTER



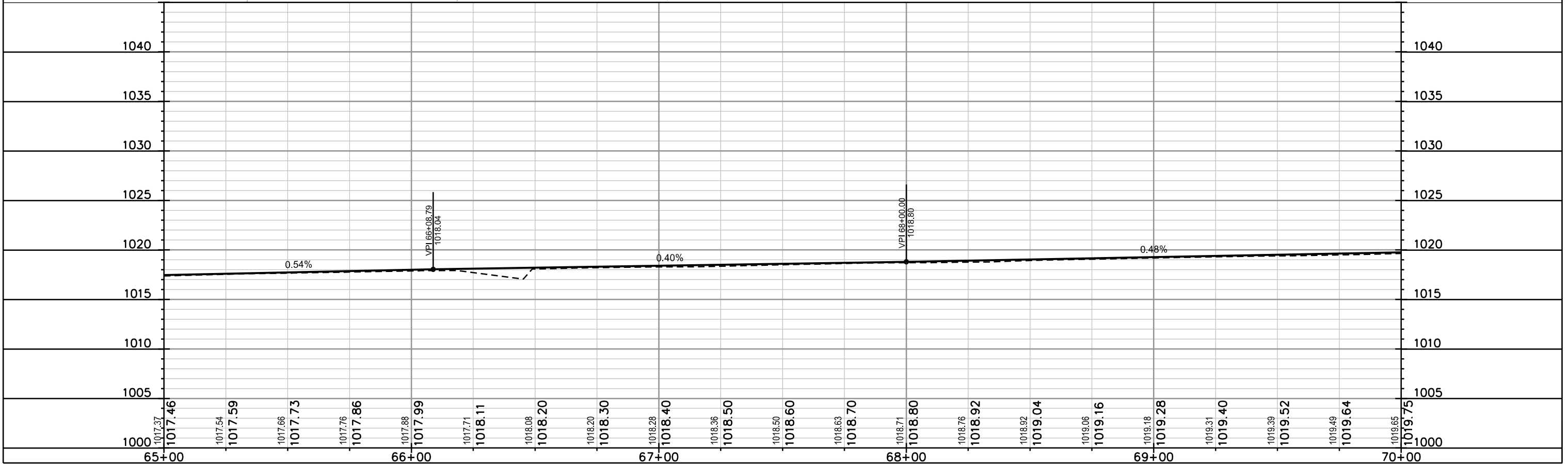
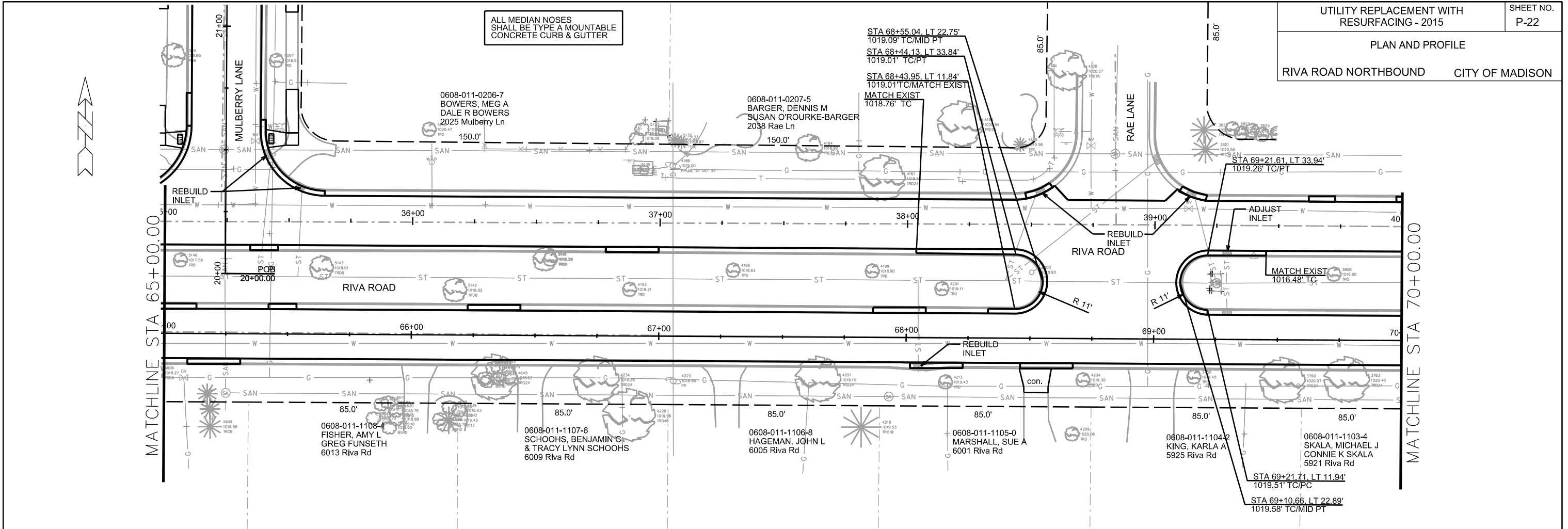
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PLOT NAME: \_\_\_\_\_

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

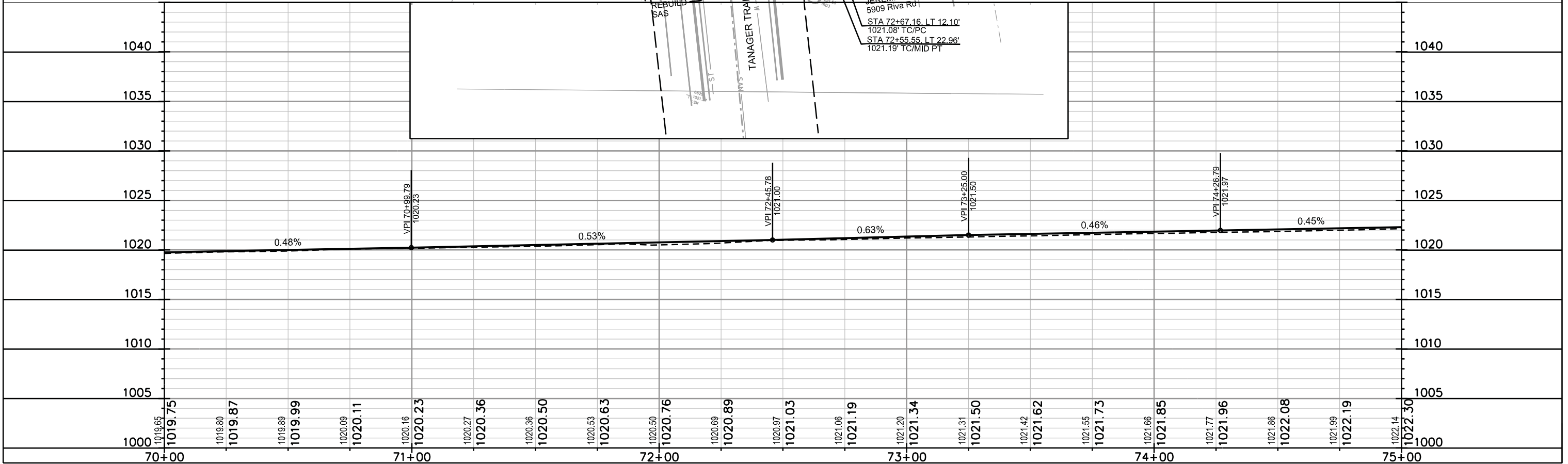
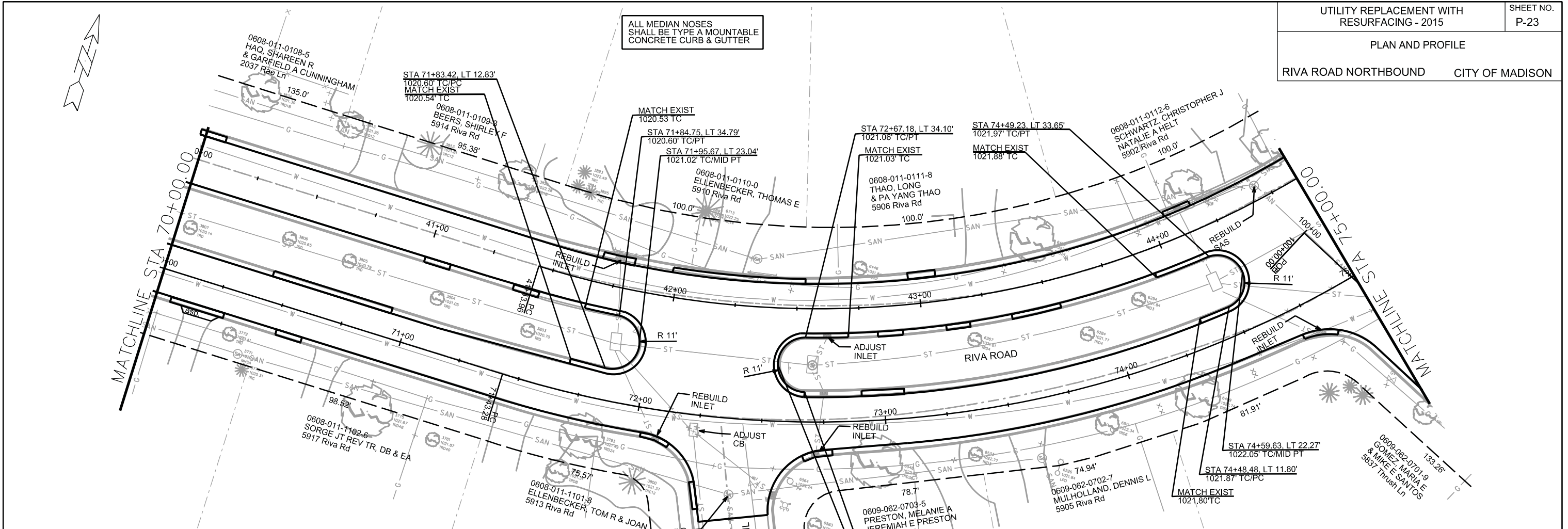
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ALL MEDIAN NOSES SHALL BE TYPE A MOUNTABLE CONCRETE CURB & GUTTER



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

ALL MEDIAN NOSES SHALL BE TYPE A MOUNTABLE CONCRETE CURB & GUTTER



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



ALL MEDIAN NOSES  
SHALL BE TYPE A MOUNTABLE  
CONCRETE CURB & GUTTER

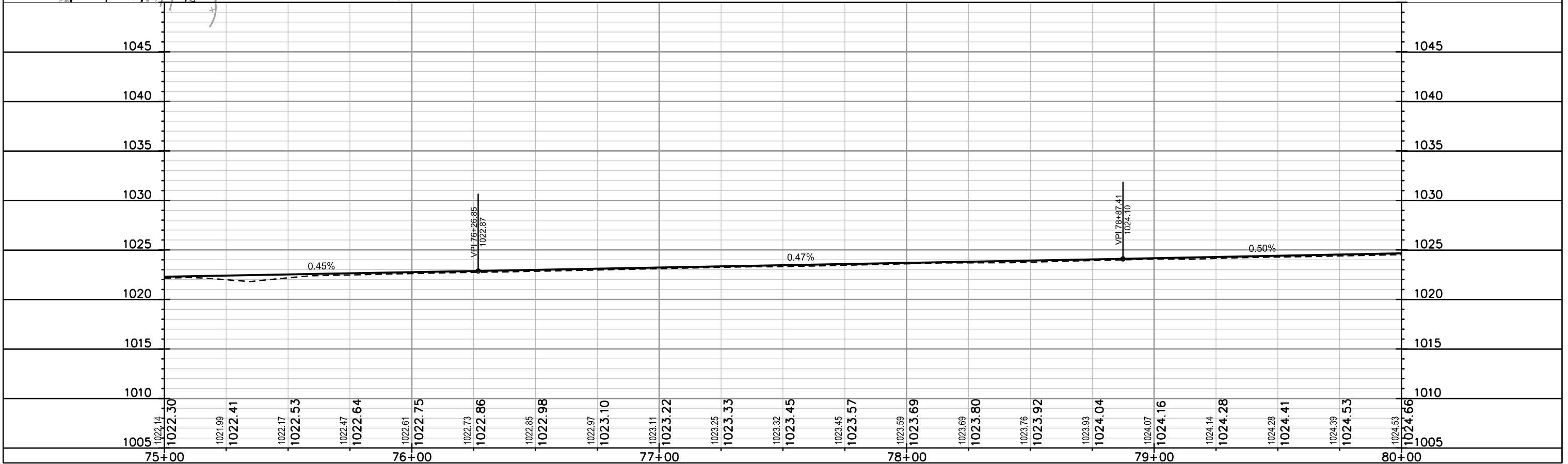
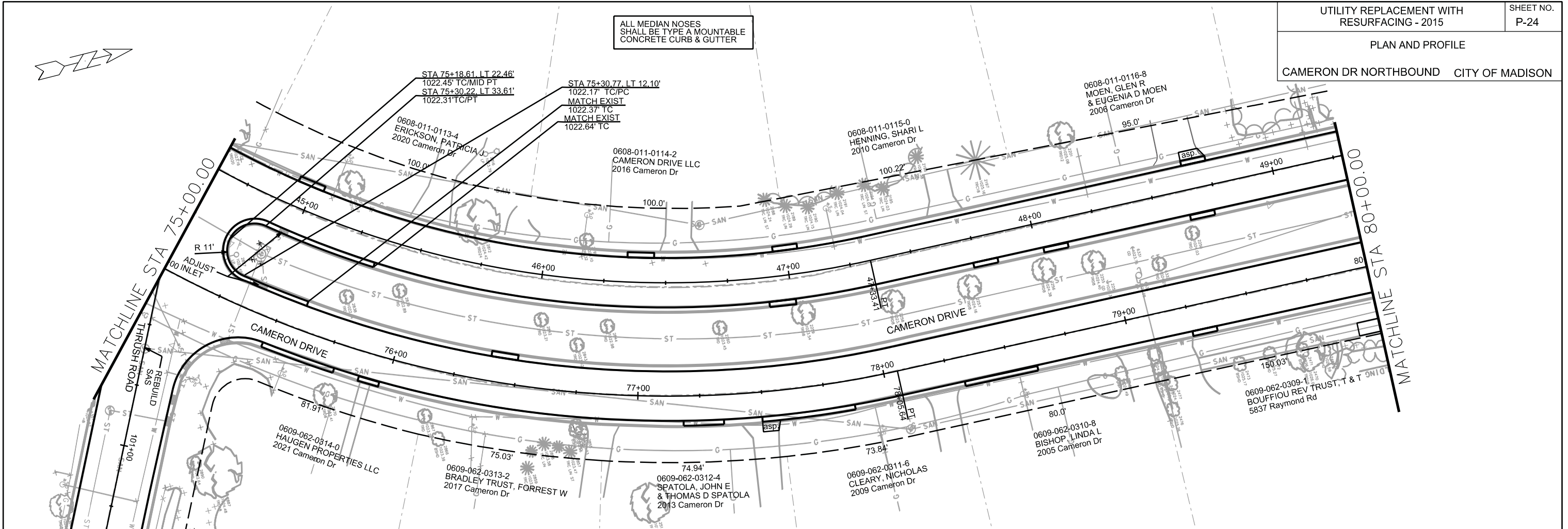


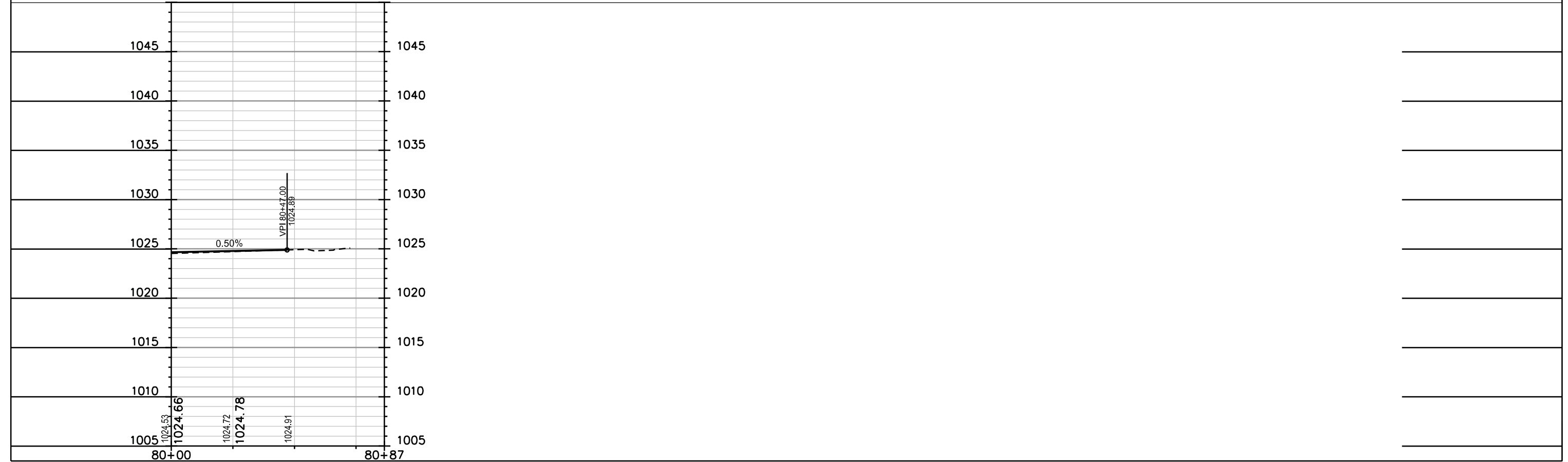
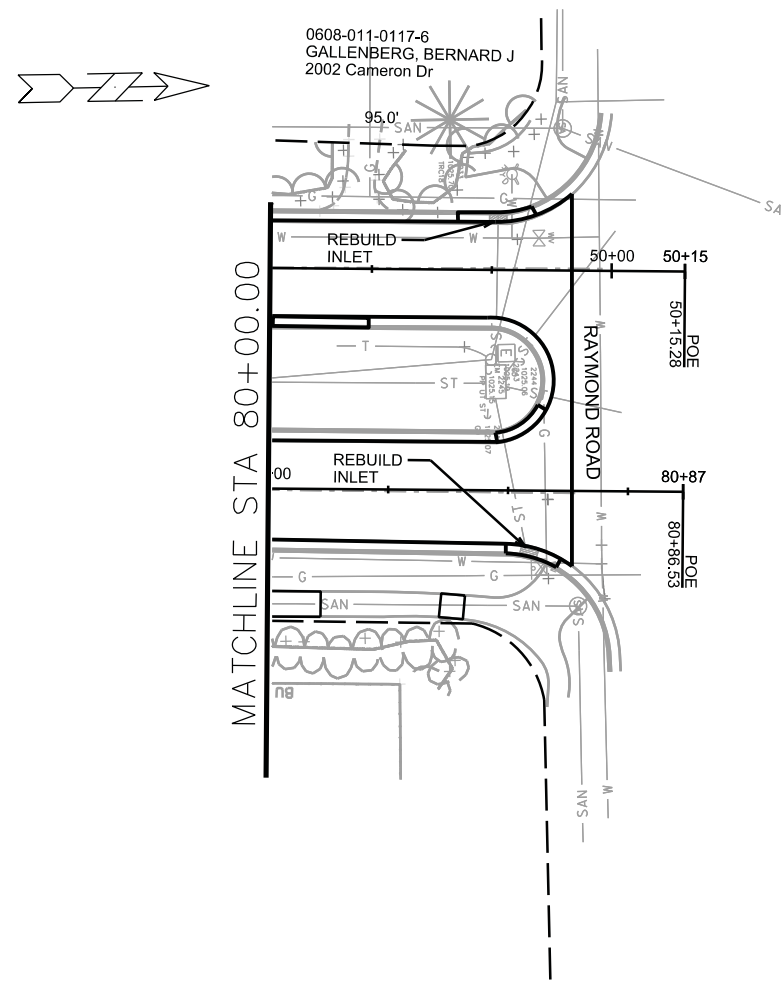
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REV. DATE: \_\_\_\_\_

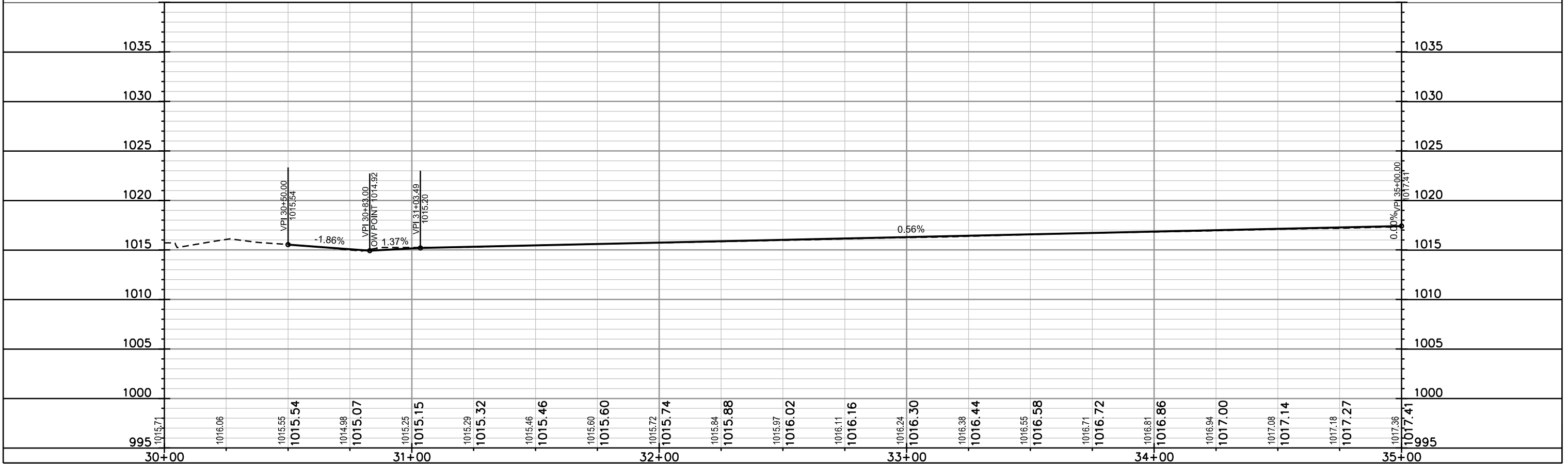
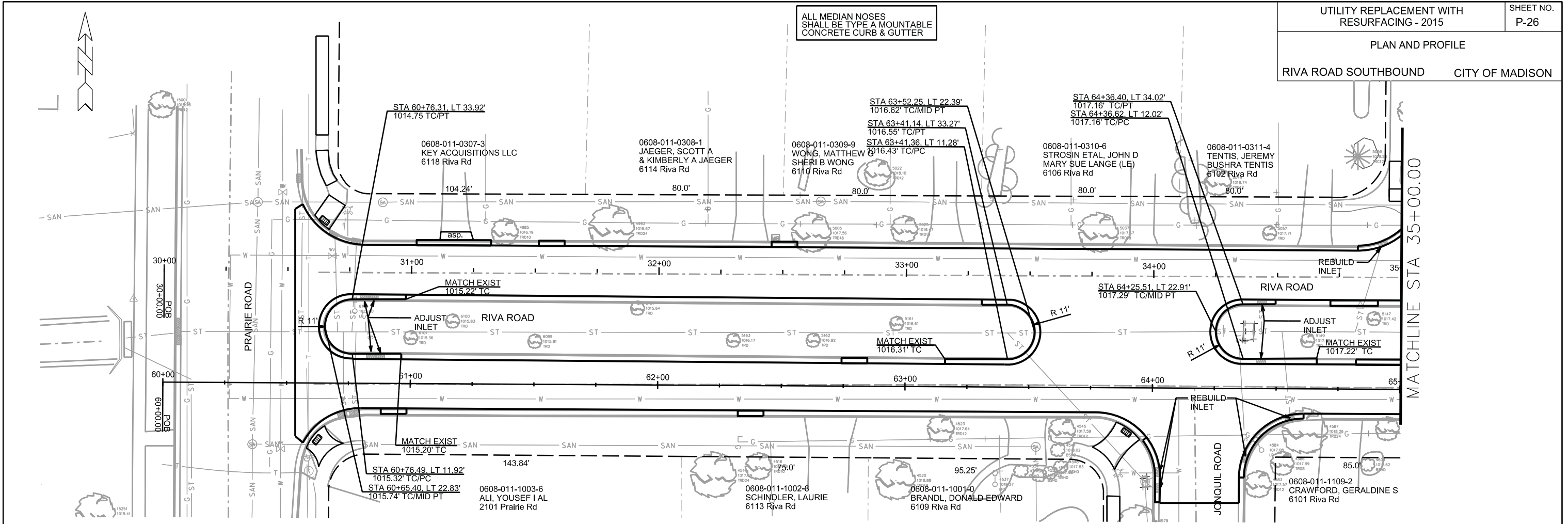
ORIGINATOR: CITY OF MADISON, STREETS DIVISION





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

ALL MEDIAN NOSES SHALL BE TYPE A MOUNTABLE CONCRETE CURB & GUTTER

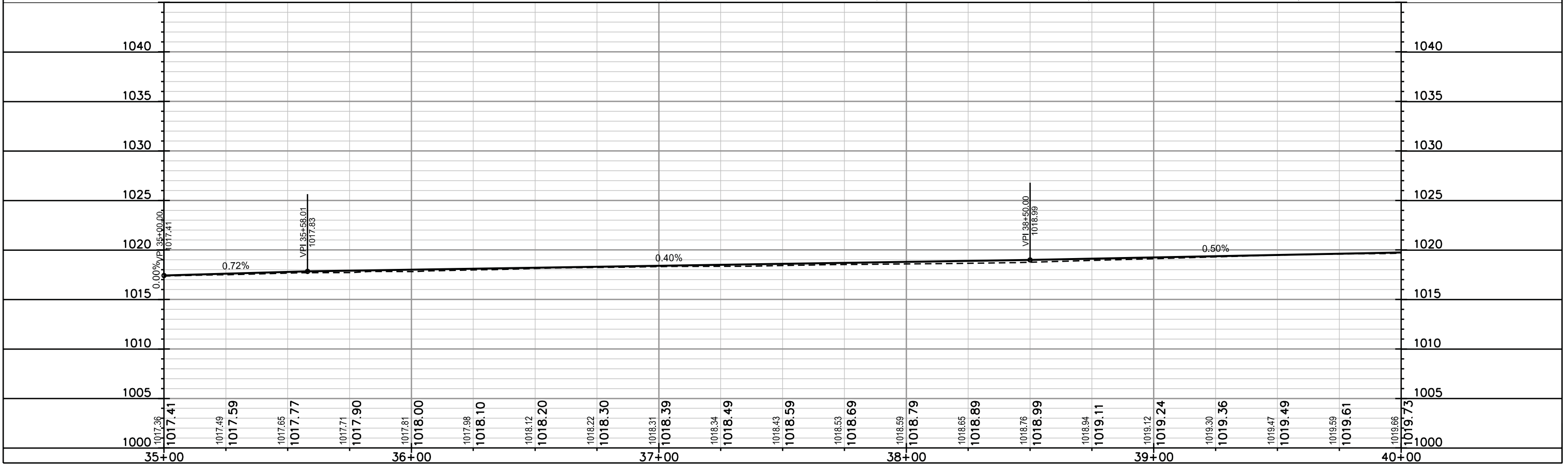
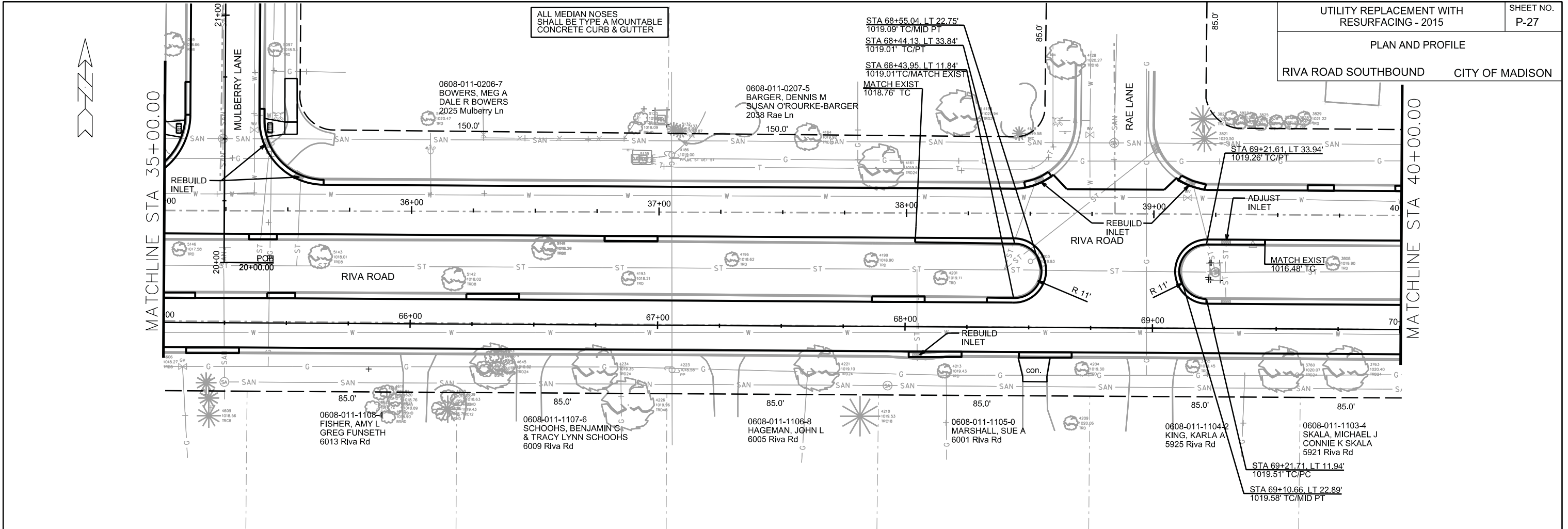


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

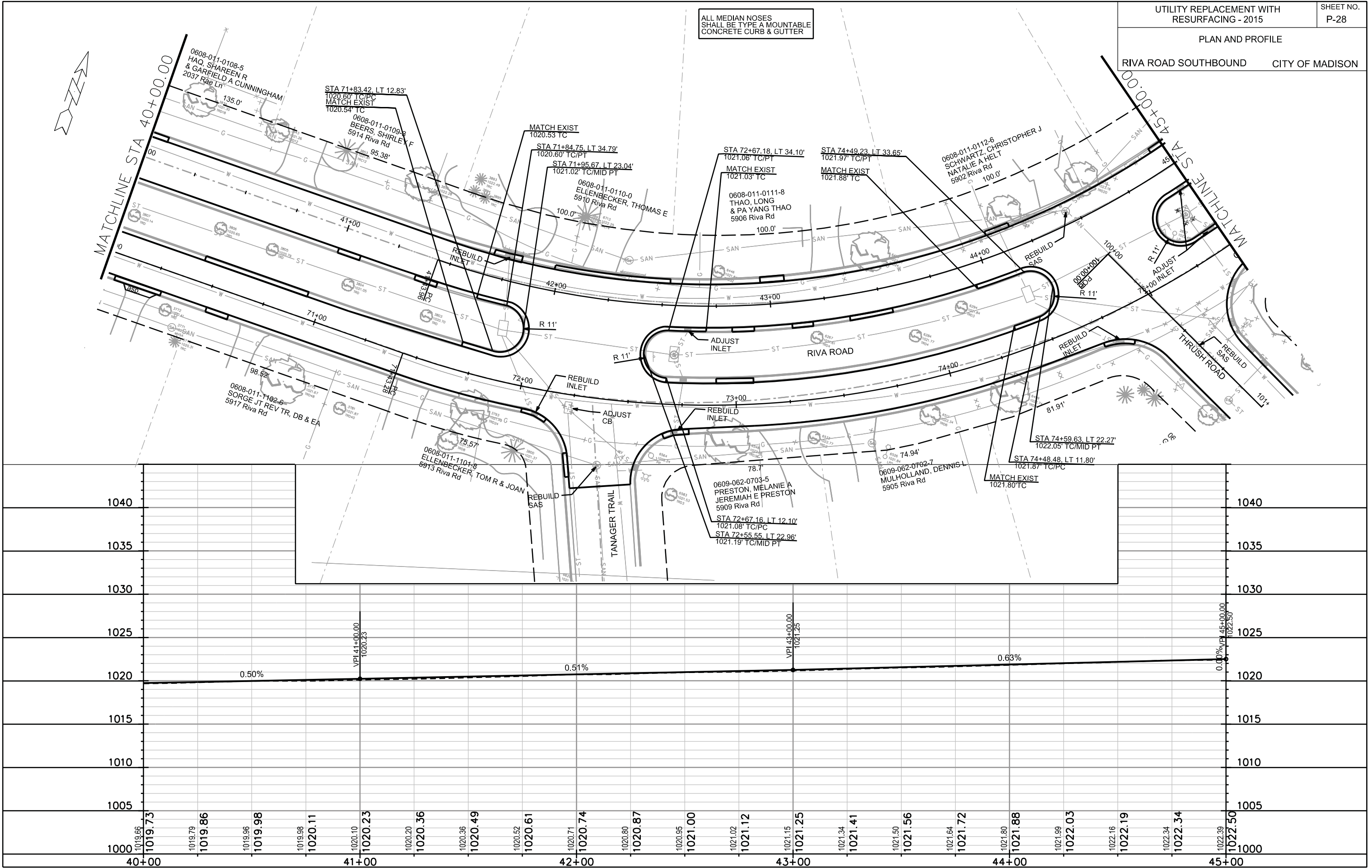


PLOT SCALE: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLAN AND PROFILE  
RIVA ROAD SOUTHBOUND CITY OF MADISON

ALL MEDIAN NOSES SHALL BE TYPE A MOUNTABLE CONCRETE CURB & GUTTER



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

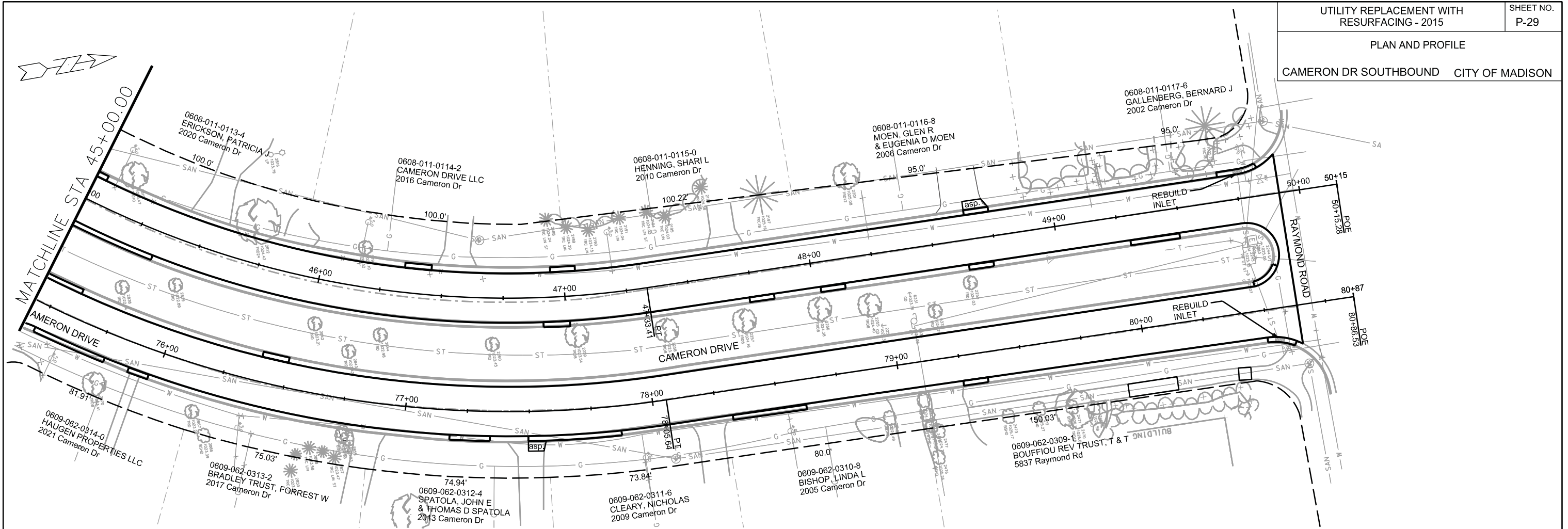
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION




PLAN AND PROFILE  
CAMERON DR SOUTHBOUND CITY OF MADISON

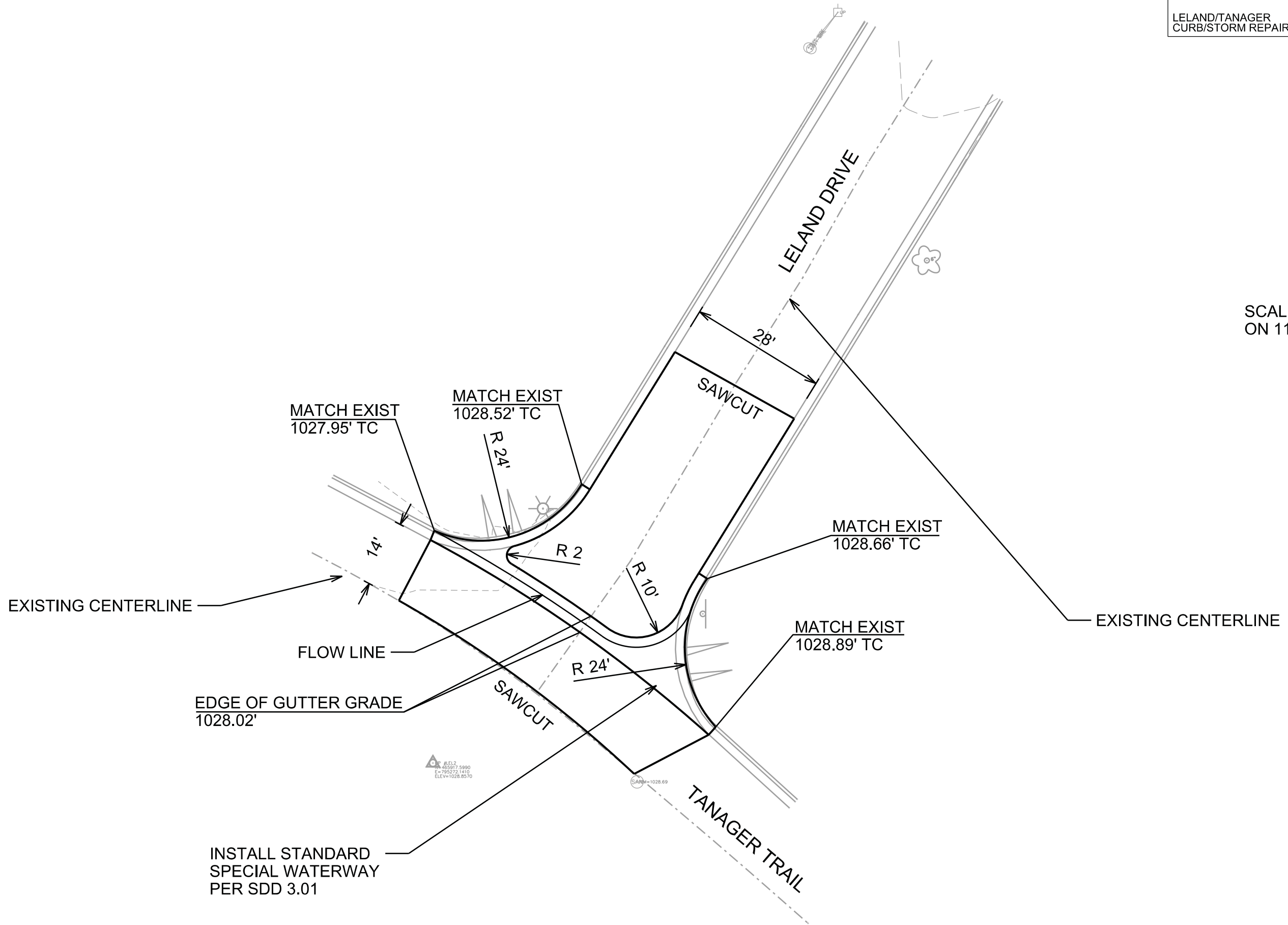


PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

  
 SCALE 1" = 20'  
 ON 11"X17" SHEET



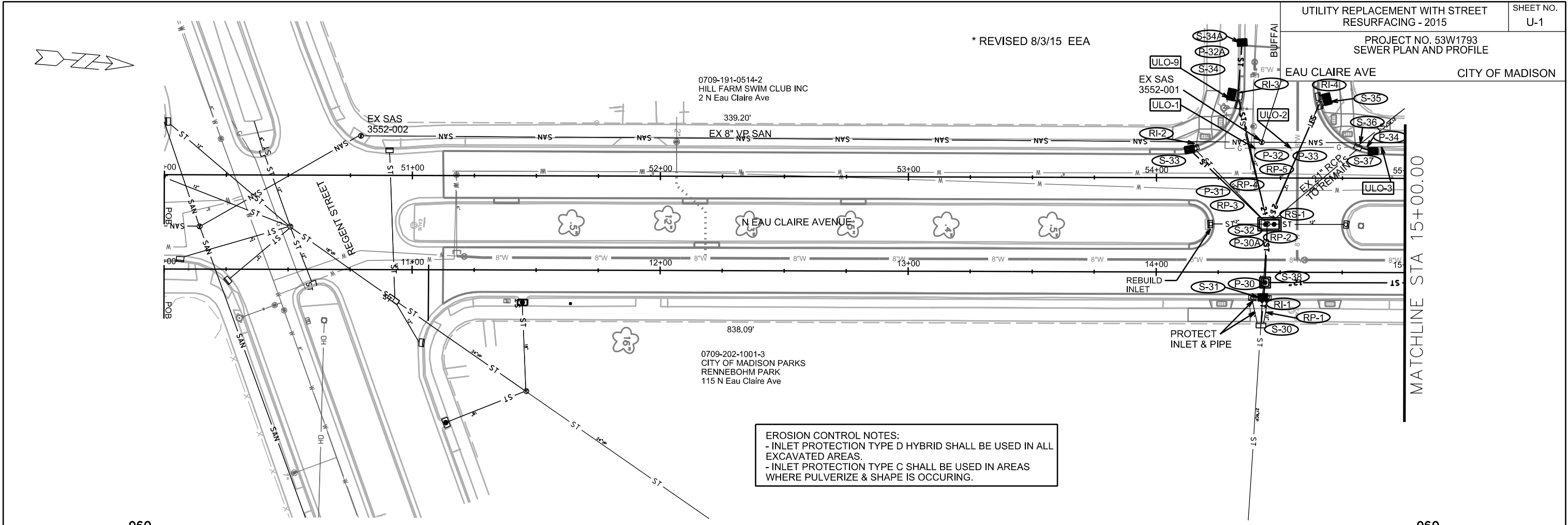
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PLOT NAME: \_\_\_\_\_

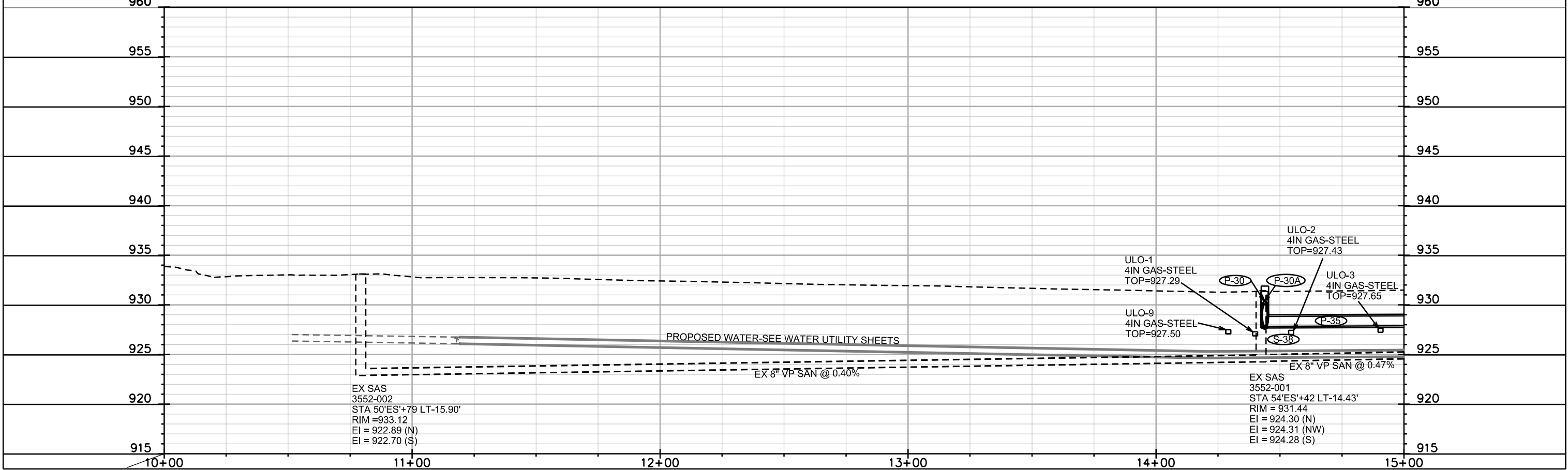
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

\* REVISED 8/3/15 EEA



EROSION CONTROL NOTES:  
 - INLET PROTECTION TYPE D HYBRID SHALL BE USED IN ALL EXCAVATED AREAS.  
 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURRING.



EX SAS  
 3552-002  
 STA 50'ES'+79 LT-15.90'  
 RIM = 933.12  
 EI = 922.89 (N)  
 EI = 922.70 (S)

EX SAS  
 3552-001  
 STA 54'ES'+42 LT-14.43'  
 RIM = 931.44  
 EI = 924.30 (N)  
 EI = 924.31 (NW)  
 EI = 924.28 (S)

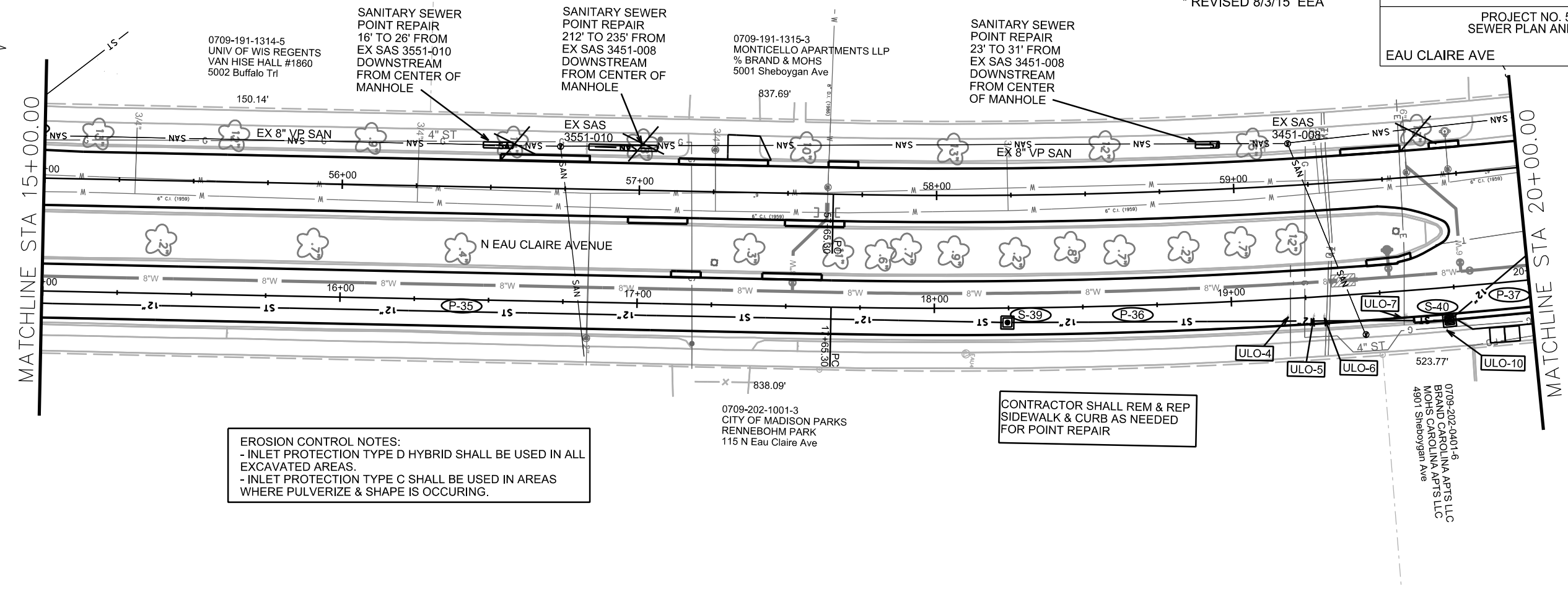
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PLOT NAME: \_\_\_\_\_

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

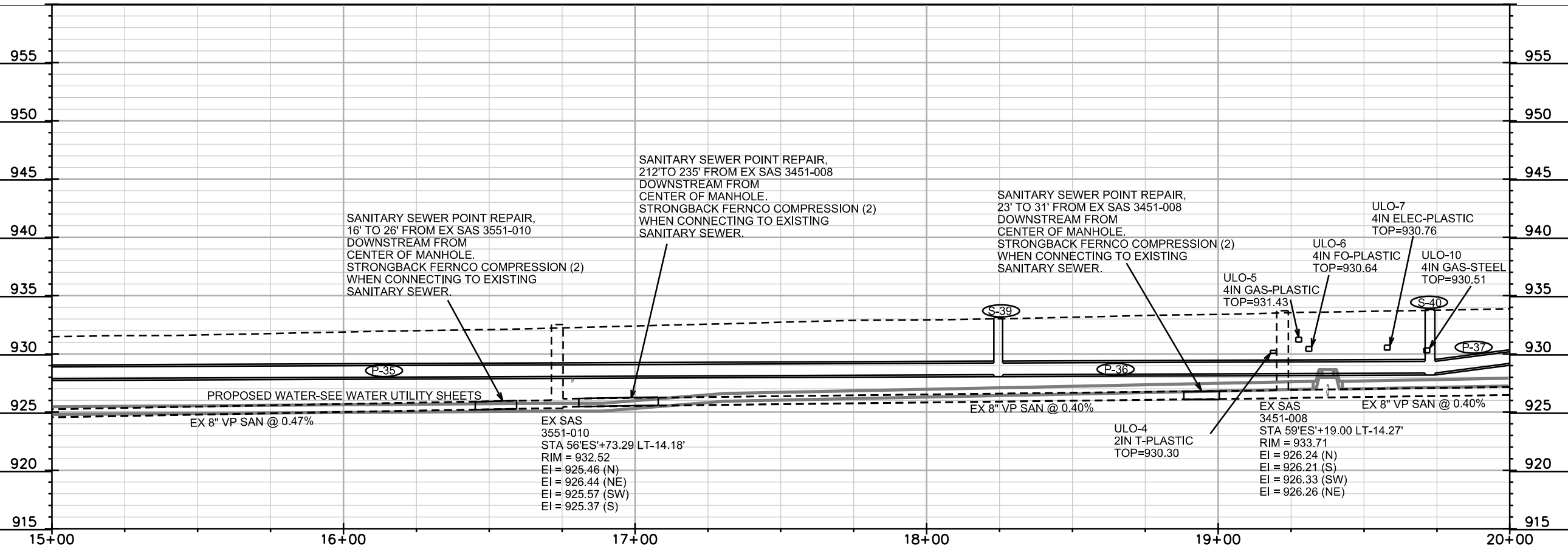
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

\* REVISED 8/3/15 EEA



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 - INLET PROTECTION TYPE D HYBRID SHALL BE USED IN ALL EXCAVATED AREAS.  
 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURING.

CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR POINT REPAIR



SANITARY SEWER POINT REPAIR, 16' TO 26' FROM EX SAS 3551-010 DOWNSTREAM FROM CENTER OF MANHOLE. STRONGBACK FERNCO COMPRESSION (2) WHEN CONNECTING TO EXISTING SANITARY SEWER.

SANITARY SEWER POINT REPAIR, 212' TO 235' FROM EX SAS 3451-008 DOWNSTREAM FROM CENTER OF MANHOLE. STRONGBACK FERNCO COMPRESSION (2) WHEN CONNECTING TO EXISTING SANITARY SEWER.

SANITARY SEWER POINT REPAIR, 23' TO 31' FROM EX SAS 3451-008 DOWNSTREAM FROM CENTER OF MANHOLE. STRONGBACK FERNCO COMPRESSION (2) WHEN CONNECTING TO EXISTING SANITARY SEWER.

ULO-7 4IN ELEC-PLASTIC TOP=930.76

ULO-6 4IN FO-PLASTIC TOP=930.64

ULO-10 4IN GAS-STEEL TOP=930.51

ULO-5 4IN GAS-PLASTIC TOP=931.43

ULO-4 2IN T-PLASTIC TOP=930.30

EX SAS 3451-008 STA 59'ES'+19.00 LT-14.27' RIM = 933.71 EI = 926.24 (N) EI = 926.21 (S) EI = 926.33 (SW) EI = 926.26 (NE)

EX SAS 3551-010 STA 56'ES'+73.29 LT-14.18' RIM = 932.52 EI = 925.46 (N) EI = 926.44 (NE) EI = 925.57 (SW) EI = 925.37 (S)

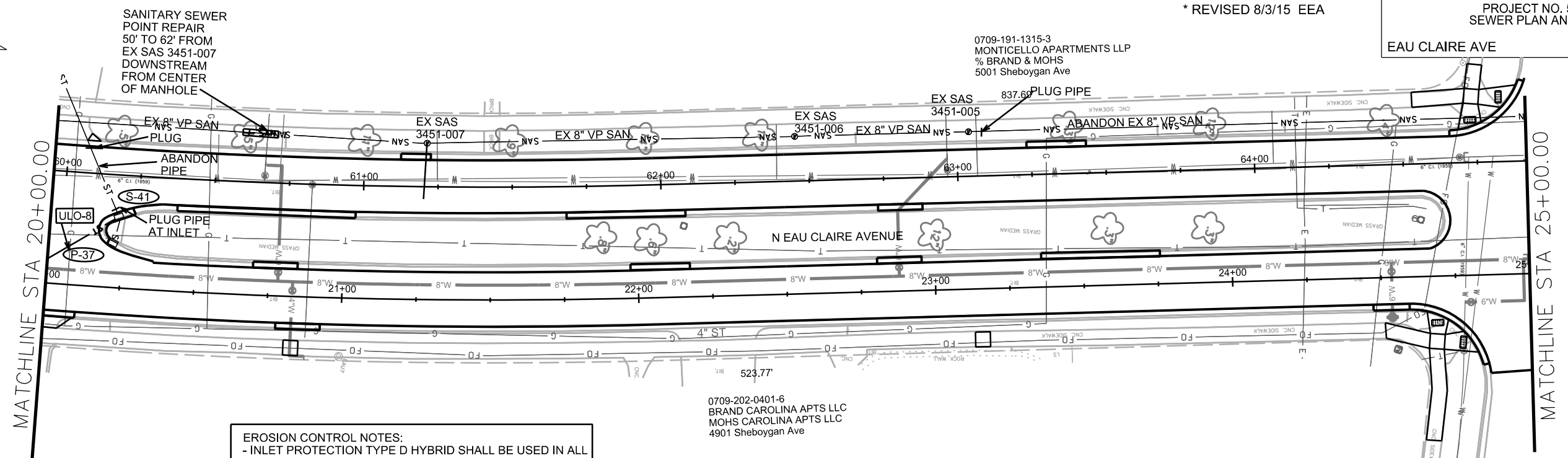
PROPOSED WATER-SEE WATER UTILITY SHEETS  
 EX 8" VP SAN @ 0.47%

EX 8" VP SAN @ 0.40%

EX 8" VP SAN @ 0.40%

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

\* REVISED 8/3/15 EEA

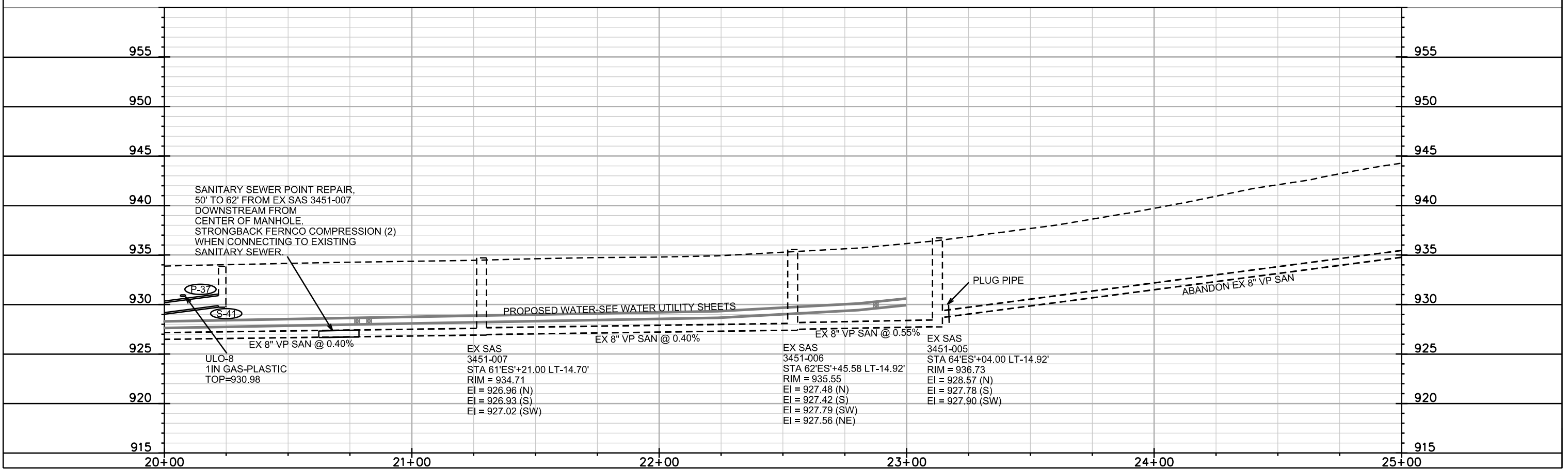


**EROSION CONTROL NOTES:**  
 - INLET PROTECTION TYPE D HYBRID SHALL BE USED IN ALL EXCAVATED AREAS.  
 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURING.

0709-202-0401-6  
 BRAND CAROLINA APTS LLC  
 MOHS CAROLINA APTS LLC  
 4901 Sheboygan Ave

MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00



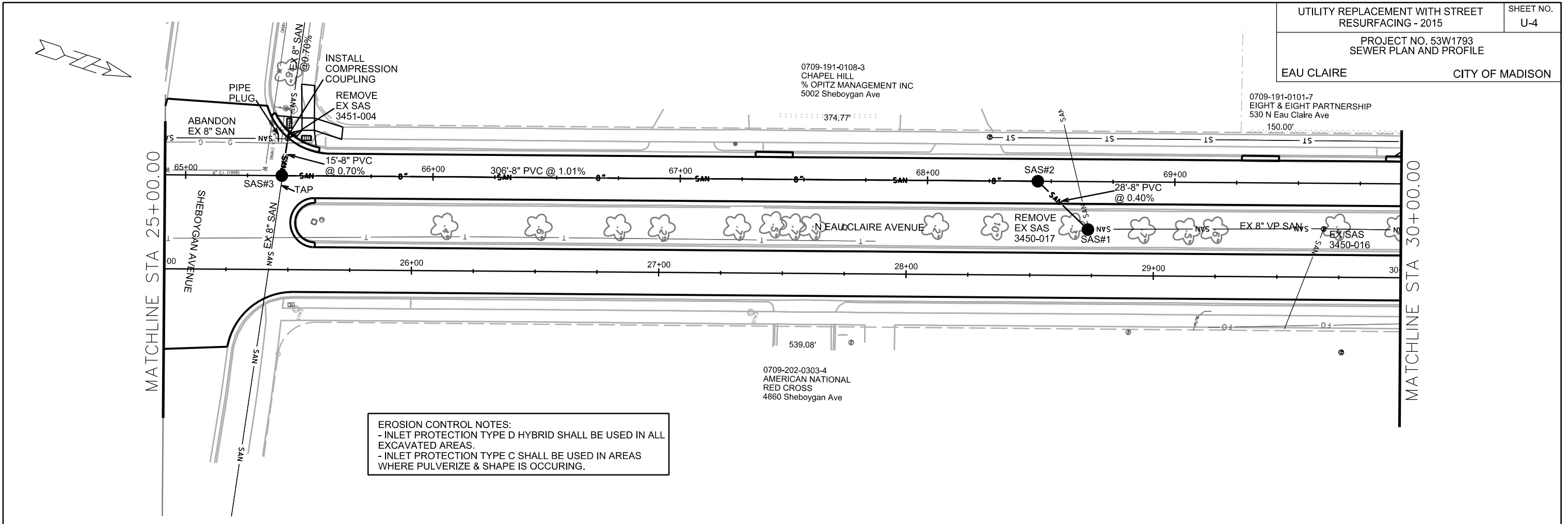
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PLOT NAME: \_\_\_\_\_

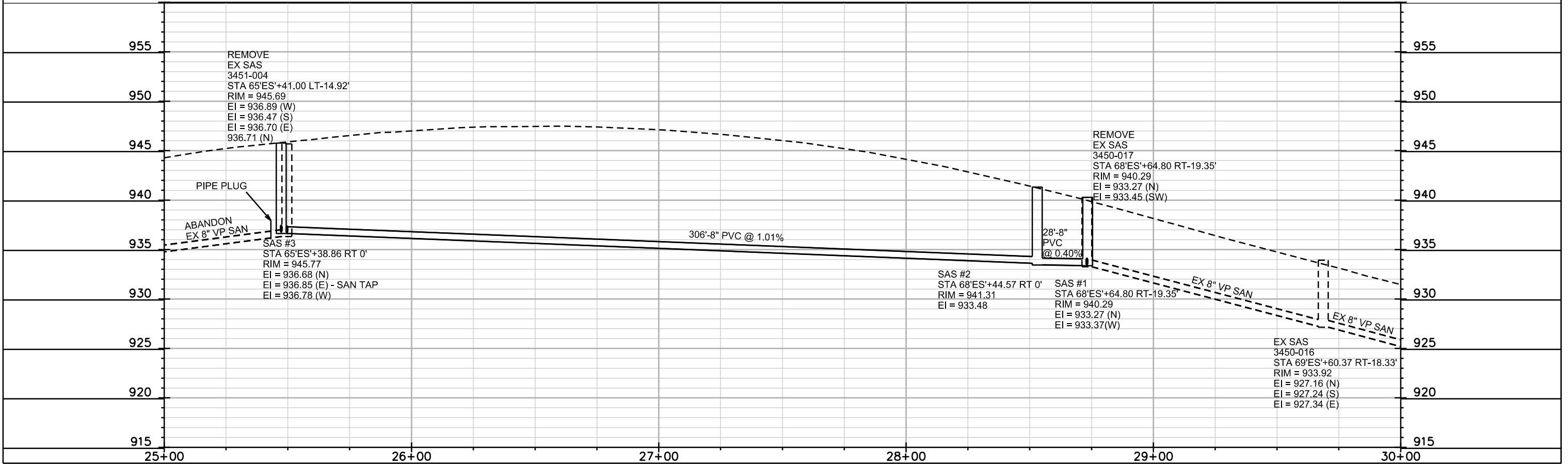
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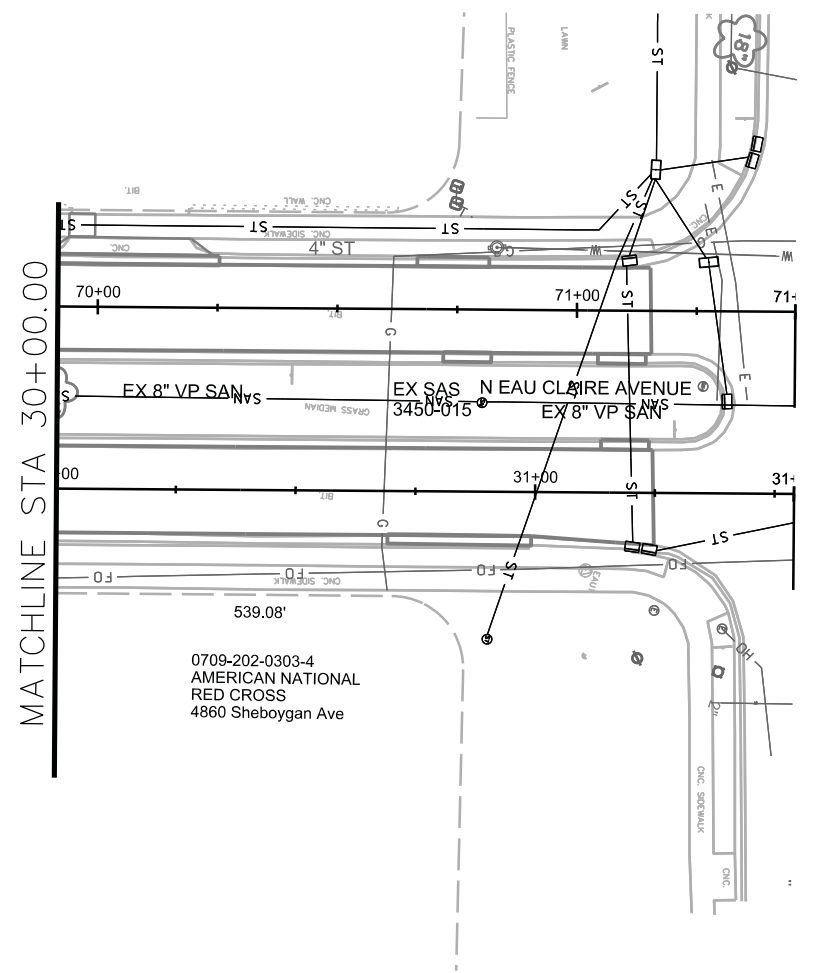
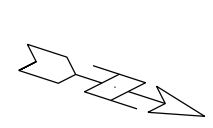




**EROSION CONTROL NOTES:**  
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PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**EROSION CONTROL NOTES:**  
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 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURING.

0709-202-0303-4  
 AMERICAN NATIONAL  
 RED CROSS  
 4860 Sheboygan Ave



EX SAS  
 3450-015  
 STA 70'ES'+80.54 RT-19.12'  
 RIM = 926.31  
 EI = 919.26 (N)  
 EI = 919.37 (S)  
 EI = 920.27 (SW)

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SANITARY SCHEDULE

## ALIGNMENT CODES:

'ES'= EAU CLAIRE AVENUE SB

UTILITY REPLACEMENT WITH STREET

RESURFACING - 2015

SHEET NO.

U-6

PROJECT NO. 53W1793

EAU CLAIRE AVE

SANITARY SEWER SCHEDULE

CITY OF MADISON

### PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	68'ES'+64.80	RT-19.35	940.29	933.27	7.02	-
SAS#2	68'ES'+44.57	CL	941.31	933.48	7.83	-
SAS#3	65'ES'+38.86	CL	945.77	936.68	9.09	-

### PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
SAS#1	SAS#2	933.37	933.48	28	0.40%	8"	SDR-35	TAP EX SAS 3450-017
SAS#2	SAS#3	933.58	936.68	306	1.01%	8"	SDR-35	-
SAS#3	SAS 3451-004	936.78	936.89	15	0.70%	8"	SDR-35	-
56'ES'+47.33; LT-14.15	56'ES'+57.45; LT-14.18	925.24	925.29	11	0.47%	8"	SDR-35	POINT REPAIR; SEE NOTES (1) & (2)
56'ES'+82.64; LT-14.30	57'ES'+05.67; LT-14.01	925.49	925.59	23	0.40%	8"	SDR-35	POINT REPAIR; SEE NOTES (1) & (2)
58'ES'+87.78; LT-15.45	58'ES'+95.86; LT-14.93	926.09	926.11	8	0.40%	8"	SDR-35	POINT REPAIR; SEE NOTES (1) & (2)
60'ES'+58.65; LT-16.69	60'ES'+70.75; LT-16.31	926.68	926.73	12	0.40%	8"	SDR-35	POINT REPAIR; SEE NOTES (1) & (2)

### SANITARY SEWER STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	NOTES
SAS 3451-004	65'ES'+41.43	LT-15.00	-
SAS 3450-017	68'ES'+64.80	RT-19.35	-

### ABANDON SANITARY SEWER PIPE

ABANDON FROM	ABANDON TO	LENGTH	SIZE	TYPE	NOTES
EX SAS 3451-005	EX SAS 3451-004	238	8"	VP	PLUGS

### NOTES:

- (1) W/ COMPRESSION COUPLINGS; MATCH EXISTING PIPE SLOPE
- (2) REMOVE SAG IN MAIN

# STORM SEWER SCHEDULE

## ALIGNMENT CODES:

'ES' = EAU CLAIRE AVENUE SB

\* REVISED 8/3/15 EEA

UTILITY REPLACEMENT WITH STREET RESURFACING - 2015	SHEET NO. U-7
PROJECT NO. 53W1793	
EAU CLAIRE AVE STORM SEWER SCHEDULE	CITY OF MADISON

### STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-30	54'ES'+42.31	RT-59.46	TAP	-	927.73	-	TAP EX
S-31	54'ES'+38.77	RT-48.31	SADDLED H INLET TYPE 1	931.37	927.80	3.57	W/ R-3067-7004-V
S-32	54'ES'+44.78	RT-18.50	8X4 SAS	931.70	927.91	3.79	FP; W/ TWO R-1550-0054; NOTE (1)
S-33	54'ES'+13.00	LT-11.50	H INLET	931.48	928.11	3.37	W/ R-3067-7004-V
S-34	54'ES'+30.19	RT-33.58	TERRACE INLET TYPE 3	931.21	928.16	3.05	FP; PER SDD 5.7.12B; NOTE (2)
S-34A	54'ES'+34.54	LT-54.53	21" PIPE PLUG	-	928.26	-	-
S-35	54'ES'+68.61	LT-31.80	TERRACE INLET TYPE 3	931.03	928.16	2.87	FP; PER SDD 5.7.12B; NOTE (2)
S-36	54'ES'+81.00	LT-12.37	TAP & CAP EX IN 3552-016	-	928.03	-	INSTALL MARKER BALL; NOTE (4)
S-37	54'ES'+89.59	LT-11.43	H INLET	931.30	928.05	3.25	LP; W/ R-3067-7004-VB
* S-38	54'ES'+43.72	<b>RT-42.14</b>	3X3 SAS	<b>931.89</b>	927.83	<b>4.06</b>	FP; W/ R-1689; NOTE (3)
* S-39	58'ES'+23.55	<b>RT-42.89</b>	3X3 SAS	<b>933.12</b>	<b>928.21</b>	<b>4.91</b>	W/ R-1550-0054
* S-40	59'ES'+68.66	RT-48.58	3X3 SAS	933.81	<b>928.36</b>	<b>5.45</b>	W/ R-3067-7004-V
S-41	60'ES'+17.00	RT-15.00	TAP	-	929.89	-	TAP EX

### PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	PLAN LGTH (FT)	PIPE LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-30	S-30	S-38	18	15	927.73	927.83	<b>0.69%</b>	27"	RCP	-
* P-30A	S-38	S-32	24	20	927.83	927.91	<b>0.41%</b>	27"	RCP	-
P-31	S-32	S-33	43	39	927.91	928.11	0.52%	12"	RCP	NCM
P-32	S-32	S-34	53	49	927.91	928.16	0.50%	21"	RCP	NCM
P-32A	S-34	S-34A	22	19	928.16	928.26	0.53%	21"	RCP	-
P-33	S-32	S-35	54	51	927.91	928.16	0.50%	21"	RCP	NCM
P-34	S-36	S-37	6	3	928.03	928.05	0.63%	12"	RCP	-
* P-35	S-38	S-39	381	378	927.83	<b>928.21</b>	<b>0.10%</b>	12"	RCP	NCM
* P-36	S-39	S-40	149	146	<b>928.21</b>	<b>928.36</b>	<b>0.10%</b>	12"	RCP	-
* P-37	S-40	S-41	61	58	<b>928.36</b>	929.89	<b>2.63%</b>	12"	RCP	-

### STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	AS 3552-013	54'EA'+44.78	RT-18.50	5X7 CATCHBASIN	-
RI-1	IN 3552-022	54'EA'+38.77	RT-48.31	INLET	-
RI-2	IN 3552-019	54'EA'+13.00	LT-11.50	INLET	-
RI-3	IN 3552-018	54'EA'+30.19	RT-33.58	DOUBLE INLET	PAID AS REMOVE INLET X 2
RI-4	IN 3552-017	54'EA'+68.61	LT-31.80	DOUBLE INLET	PAID AS REMOVE INLET X 2

### ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1	54'EA'+39.99	LT-11.85	GAS-4IN, STEEL	TOP=927.29; OK, BELOW PROP STM
* ULO-2	54'EA'+54.48	LT-11.73	GAS-4IN, STEEL	TOP=927.43; OK, BELOW PROP STM
* ULO-3	54'EA'+90.40	LT-12.66	GAS-4IN, STEEL	TOP=927.65; OK, BELOW PROP STM, ADJUST INLET IN FIELD
* ULO-4	59'EA'+15.69	RT-44.03	T-2IN, PLASTIC	TOP=930.30; LOWERED STORM TO AVOID CONFLICT
* ULO-5	59'EA'+24.27	RT-38.00	GAS-4IN, PLASTIC	TOP=931.43; LOWERED STORM TO AVOID CONFLICT
* ULO-6	59'EA'+27.85	RT-44.26	FO-4IN, PLASTIC	TOP=930.64; LOWERED STORM TO AVOID CONFLICT
* ULO-7	59'EA'+54.32	RT-46.09	E-4IN, PLASTIC	TOP=930.75; LOWERED STORM TO AVOID CONFLICT
*	59'EA'+54.85	RT-38.00	E-4IN, PLASTIC	TOP=930.76; LOWERED STORM TO AVOID CONFLICT
* ULO-8	60'EA'+02.86	RT-27.20	GAS-1IN, PLASTIC	TOP=930.98; LOWERED STORM TO AVOID CONFLICT
* ULO-9	54'EA'+29.16	LT-33.19	GAS-4IN, STEEL	TOP=927.50; OK, BELOW PROP STM, ADJUST STRUCTURE IN FIELD
* ULO-10	59'EA'+67.54	RT-52.31	GAS-4IN, STEEL	TOP=930.51; OK, ADJUST INLET IN FIELD

### STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	S-30	RI-1	25	N	12"	RCP	-
RP-2	S-30	RS-1	41	N	18"	RCP	-
RP-3	RS-1	RI-2	43	N	12"	RCP	-
RP-4	RS-1	RI-3	53	N	12"	RCP	-
RP-5	RS-1	RI-4	54	N	12"	RCP	-

### STORM PIPE ABANDONMENT

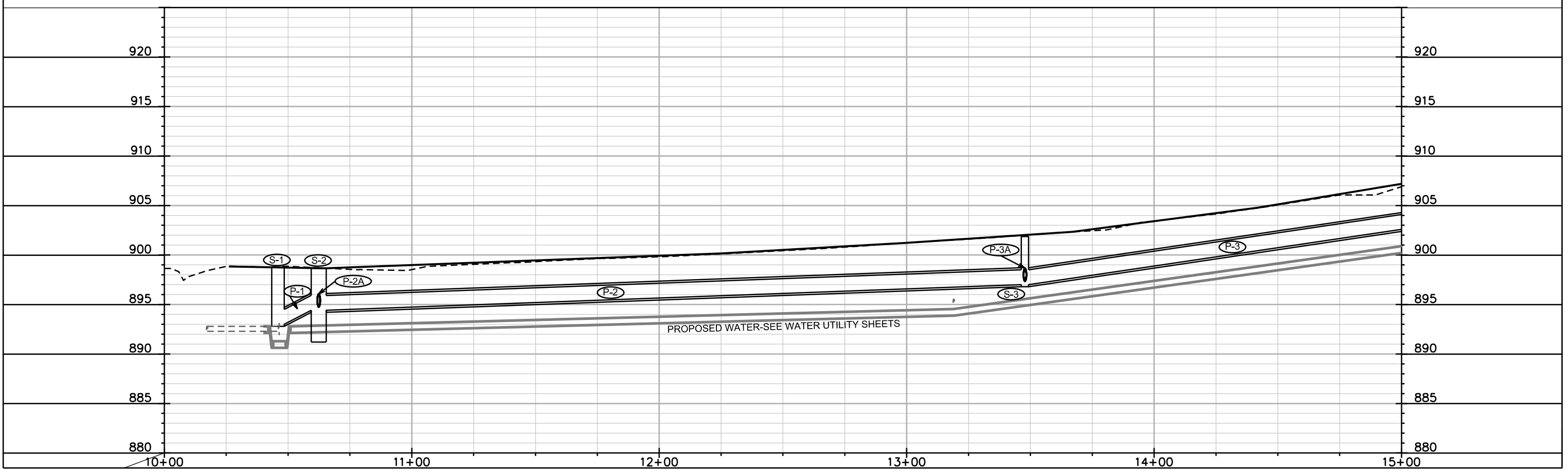
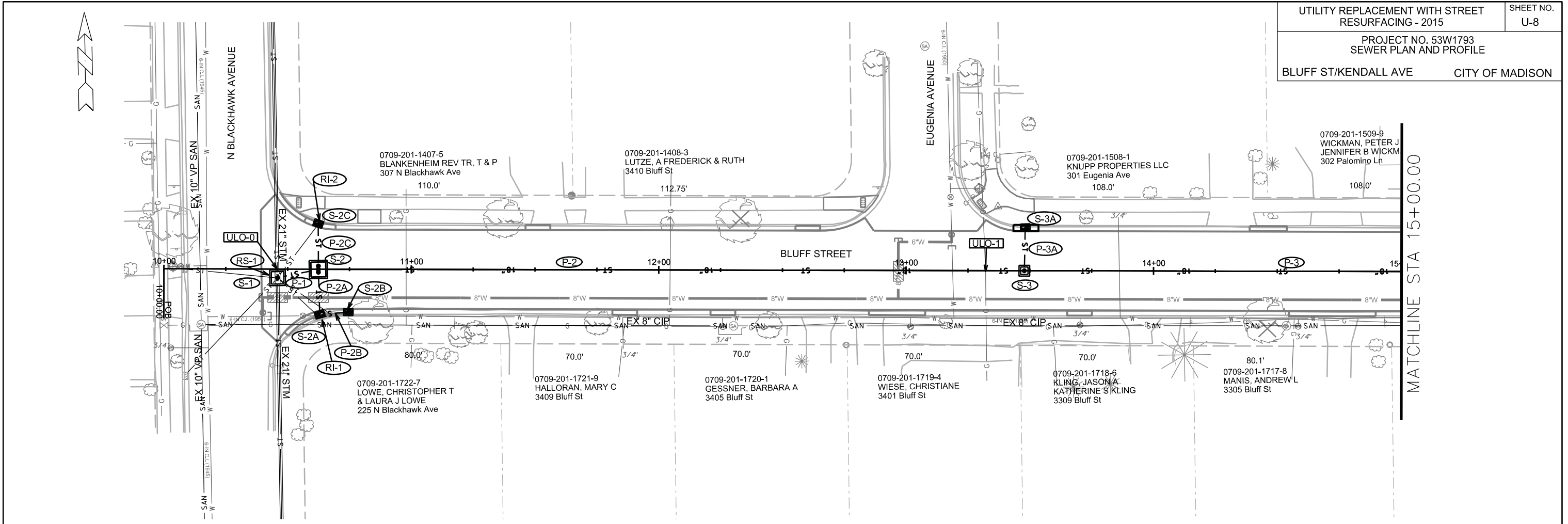
ABANDON FROM	ABANDON TO	LENGTH	PAID (Y/N)	SIZE	TYPE	NOTES
S-41	60'ES'+07.00	LT-8.50	Y	12"	RCP	-

### SPECIFIC NOTES

- (1) RECONNECT EXISTING 12" PIPES TO N & S & SW; AND EX 21" TO NW
- (2) RECONNECT EXISTING PRIVATE CONNECTION
- (3) PIPE IN ROOF OF STRUCTURE
- (4) PER BID ITEM 90033

### 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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.



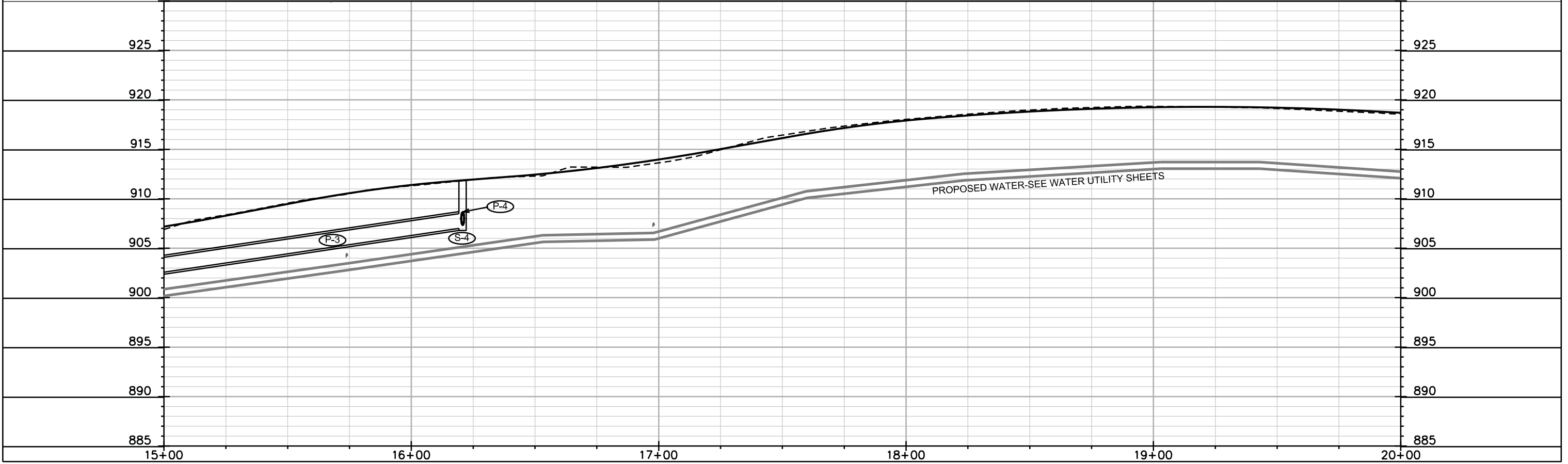
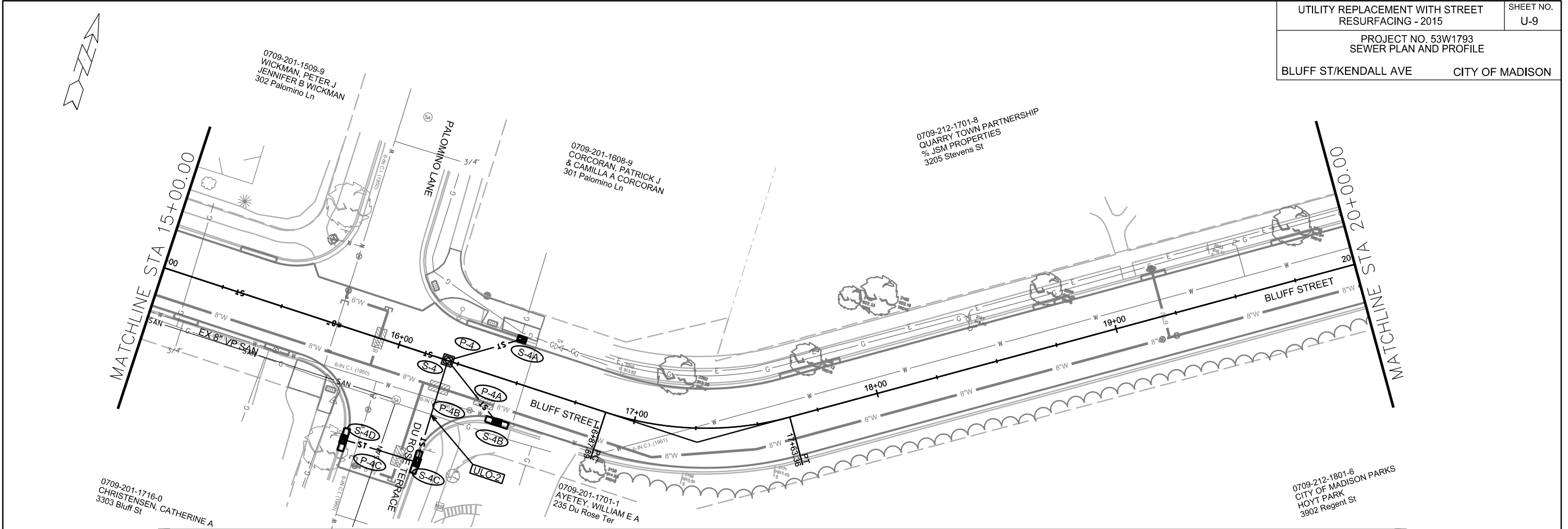
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



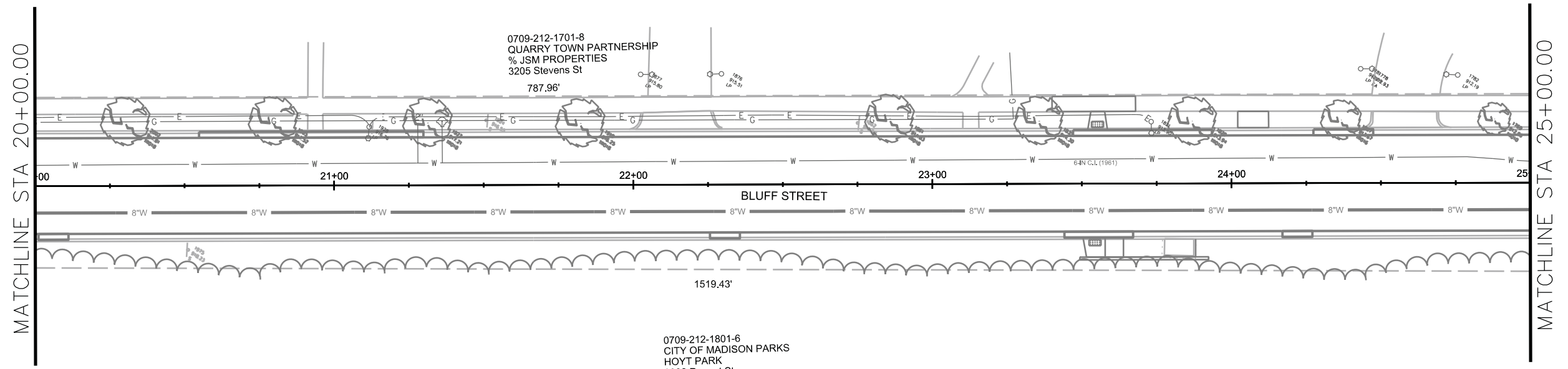
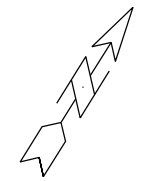


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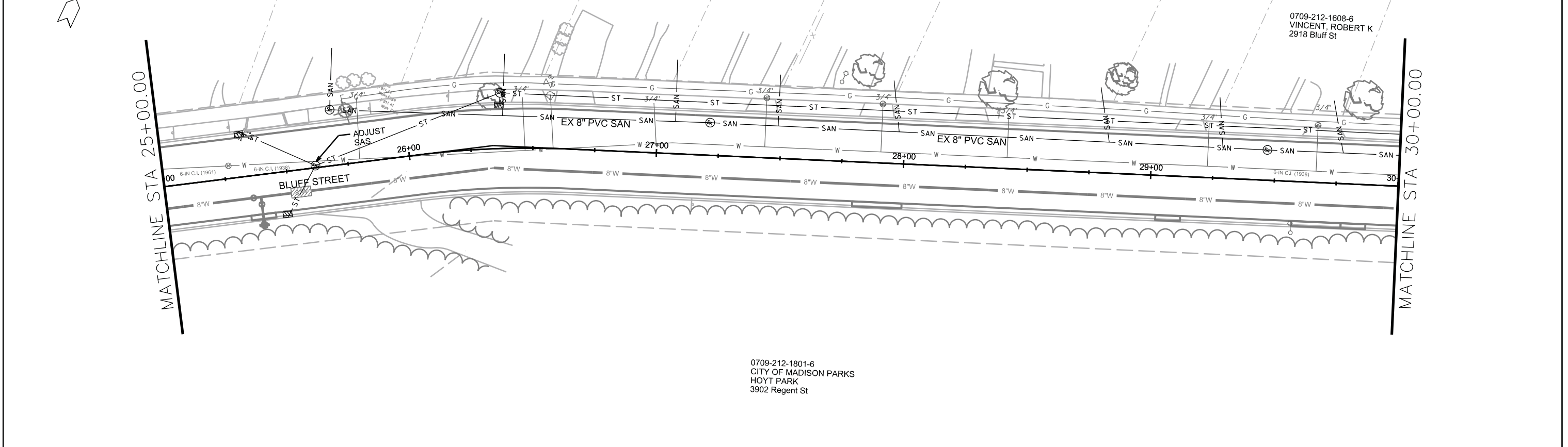
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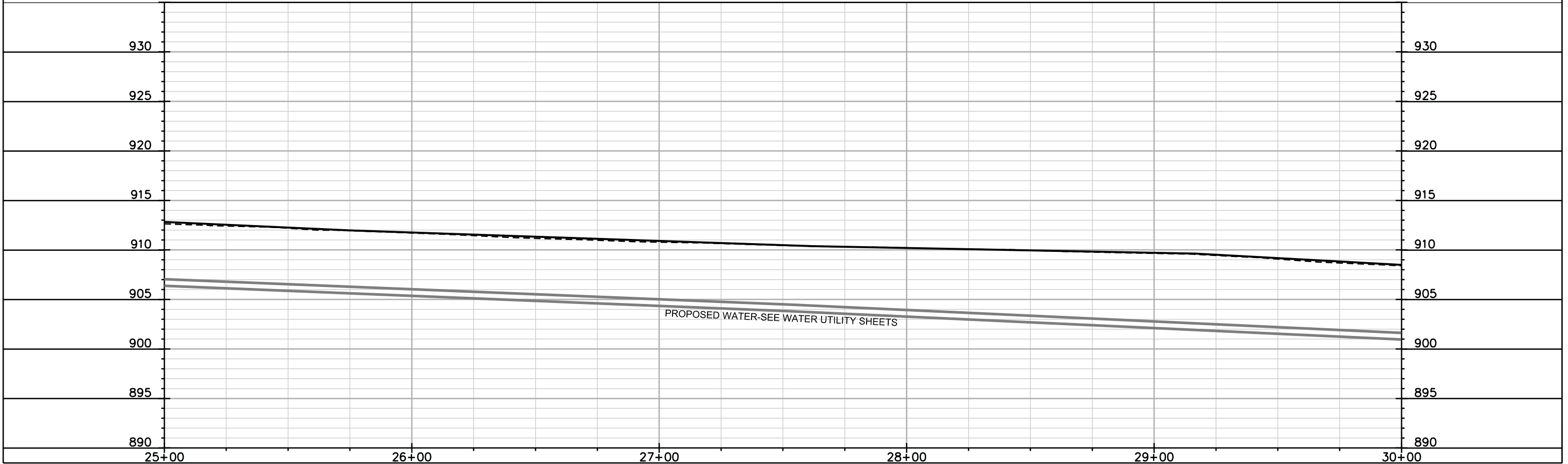


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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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 0709-212-1601-0 TOWNE, MARK E 3006 Bluff St  
 0709-212-1602-8 READY LIVING TRUST, C & A C & A READY, TRUSTEES 3002 Bluff St  
 0709-212-1603-6 VANDE HEY, TIMOTHY J 2942 Bluff St  
 0709-212-1604-4 BRAITHWAITE, ALLEN ELLEN L BRAITHWAITE 2938 Bluff St  
 0709-212-1605-2 CROWTHER, CHANCELLOR L 2934 Bluff St  
 0709-212-1606-0 AUSTIN, KATHERINE B JACOB B AUSTIN 2926 Bluff St  
 0709-212-1607-8 HEISLER, DIANA ALICE & E T BLANK & C W BLANK II 2922 Bluff St  
 0709-212-1608-6 VINCENT, ROBERT K 2918 Bluff St



0709-212-1801-6 CITY OF MADISON PARKS HOYT PARK 3902 Regent St



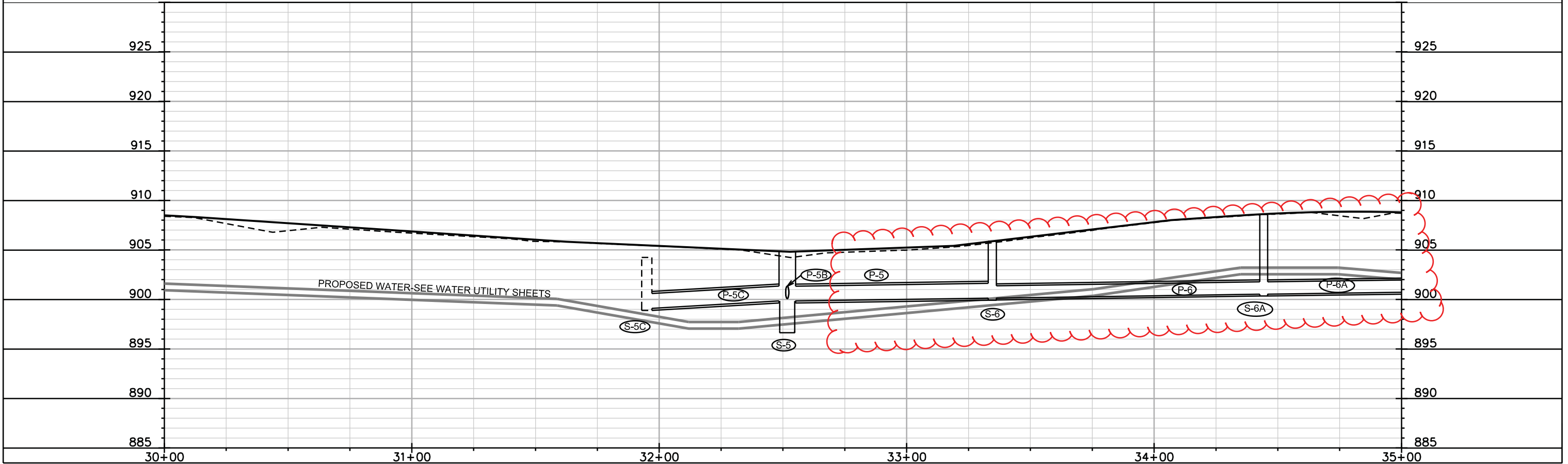
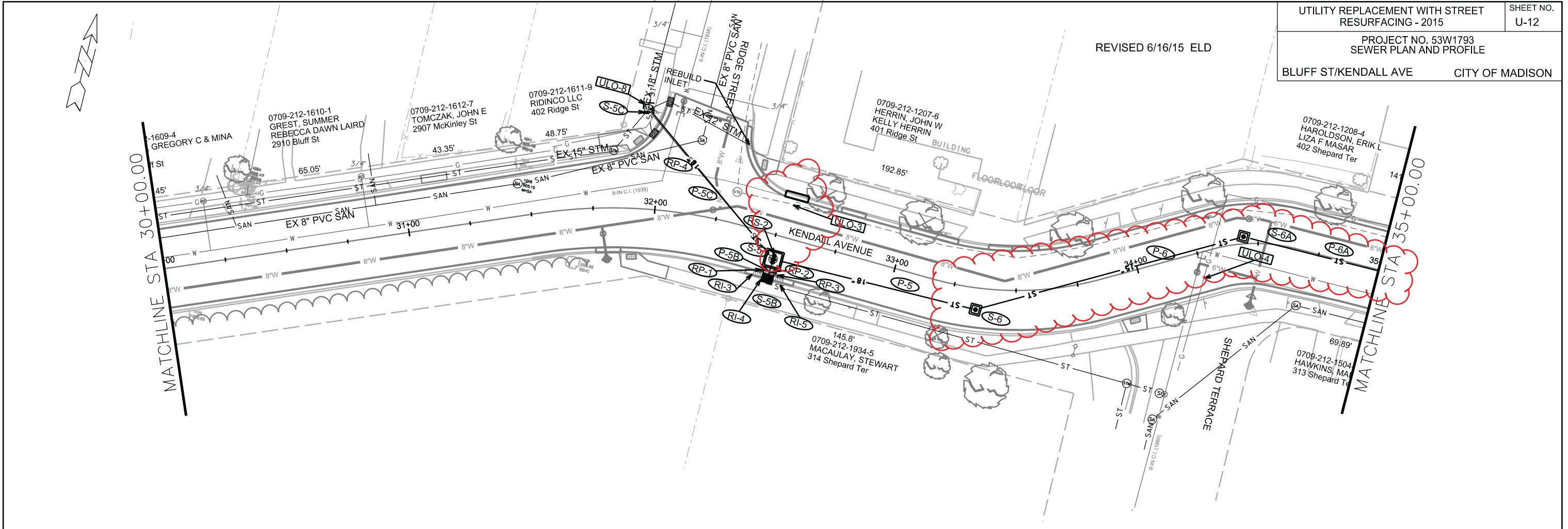
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 6/16/15 ELD



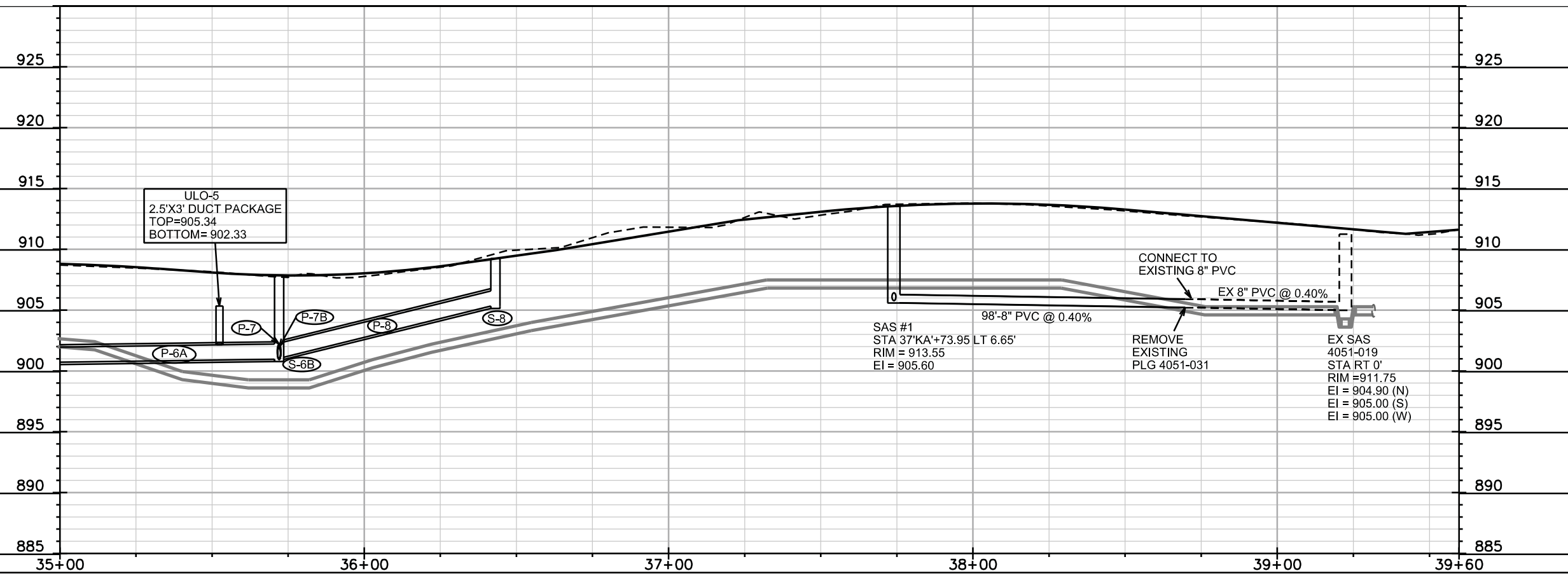
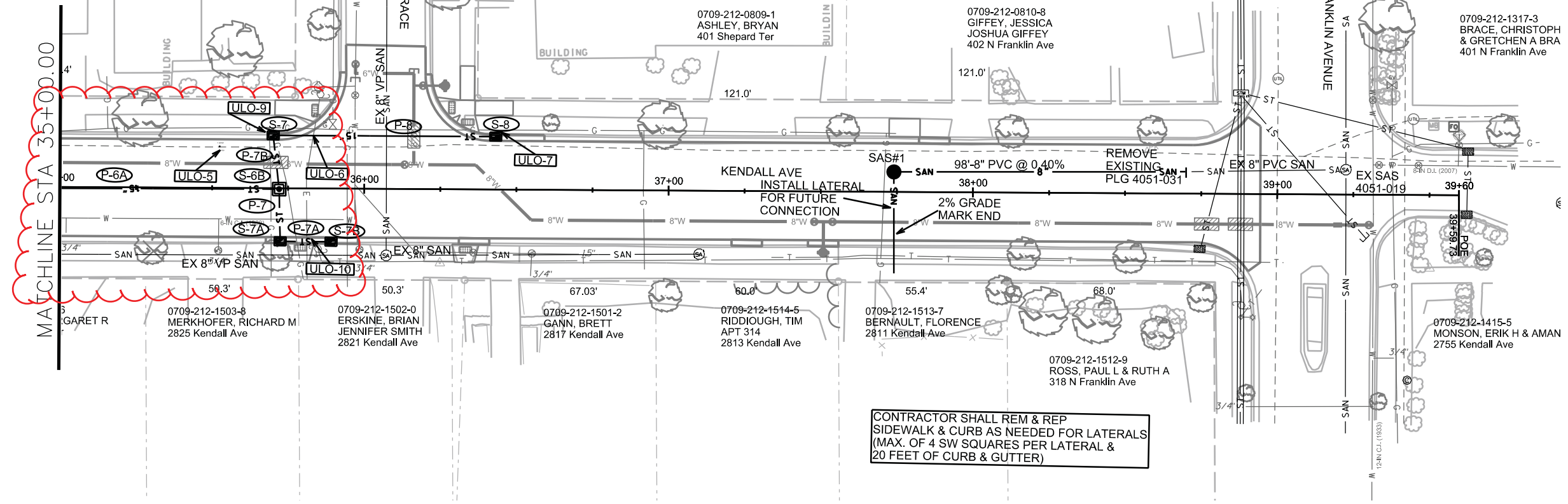
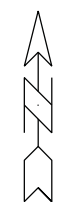
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 6/16/2015



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



# SANITARY SCHEDULE

## ALIGNMENT CODES:

"KA"=KENDALL AVE

UTILITY REPLACEMENT WITH STREET  
RESURFACING - 2015

SHEET NO.

U-14

PROJECT NO. 53W1793

KENDALL AVE  
SANITARY SEWER SCHEDULE

CITY OF MADISON

### PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	37'KA'+73.95	LT-6.65	913.55	905.60	7.95	-

### PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
EX SAS	SAS#1	905.22	905.60	98	0.41%	8"	SDR-35	REMOVE EXISTING PIPE PLUG

REV. DATE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 PLOT SCALE: \_\_\_\_\_

# STORM SEWER SCHEDULE

## ALIGNMENT CODES:

'BS'= BLUFF ST  
'KA'= KENDALL AVE

\* Revised 06/16/2015 ELD

UTILITY REPLACEMENT WITH STREET RESURFACING - 2015		SHEET NO. U-15
PROJECT NO. 53W1793		
KENDALL AVE STORM SEWER SCHEDULE	CITY OF MADISON	

## STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	10'BS'+45.94	RT-3.52	5X5 SAS	898.74	892.70	6.04	W/ R-1550-0054
S-2	10'BS'+62.41	CL	6X6 CATCHBASIN	898.66	894.41	4.25	FP; W/ TWO R-1550-0054; NOTE (1)
S-2A	10'BS'+62.90	RT-20.74	H INLET	897.84	894.98	2.86	FP; LP; W/ R-3067-7004-VB
S-2B	10'BS'+74.52	RT-18.78	H INLET	898.74	895.03	3.71	W/ R-3067-7004-V
S-2C	10'BS'+62.82	LT-19.65	H INLET	898.26	894.99	3.27	LP; W/ R-3067-7004-VB
S-3	13'BS'+47.79	CL	3X3 SAS	902.02	897.00	5.02	W/ R-1550-0054
S-3A	13'BS'+48.08	LT-18.28	H INLET	902.03	898.43	3.60	W/ R-3067-7004-V
S-4	16'BS'+20.70	CL		911.86	907.00	4.86	W/ R-1550-0054
S-4A	16'BS'+46.50	LT-18.92	H INLET	912.37	908.77	3.60	W/ R-3067-7004-V
S-4B	16'BS'+47.37	RT-18.89	H INLET	912.25	908.65	3.60	W/ R-3067-7004-V
S-4C	16'BS'+22.44	RT-42.91	H INLET	911.90	907.74	4.16	W/ R-3067-7004-V
S-4D	15'BS'+89.54	RT-43.38	H INLET	911.09	907.89	3.20	W/ R-3067-7004-V
S-5	32'KA'+51.74	RT-9.80	6X6 CATCHBASIN	904.83	899.84	4.99	W/ TWO R-1550-0054; NOTE (1)
* S-5A	32'KA'+53.57	LT-18.29	H INLET	903.81	900.46	3.35	LP; W/ R-3067-7004-VB
S-5B	32'KA'+51.50	RT-20.59	TERRACE INLET TYPE 3	904.40	900.12	4.28	PER S.D.D. 5.7.12B; NOTE (2)
S-5C	31'KA'+95.00	LT-40.82	TAP	-	899.10	-	TAP EX AS 3951-003
* S-6	33'KA'+34.61	RT-8.80	3X3 SAS	905.87	900.13	5.74	W/ R-1550-0054
* S-6A	34'KA'+44.30	LT-2.85	3X3 SAS	908.62	900.53	8.09	W/ R-1550-0054
* S-6B	35'KA'+72.04	CL	3X3 SAS	907.86	900.96	6.90	W/ R-1550-0054
* S-7	35'KA'+70.00	LT-18.38	H INLET	907.48	901.00	6.48	W/ R-3067-7004-V
* S-7A	35'KA'+72.64	RT-18.12	H INLET	907.91	902.17	5.74	LP; W/ R-3067-7004-VB
* S-7B	35'KA'+89.19	RT-18.12	H INLET	908.36	903.49	4.87	W/ R-3067-7004-VB
S-8	36'KA'+43.09	LT-18.09	H INLET	909.23	905.33	3.90	W/ R-3067-7004-V

## PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	PLAN LGTH (FT)	PIPE LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-2	17	11	893.00	894.41	12.56%	18"	RCP	-
P-2	S-2	S-3	285	281	894.41	897.00	0.92%	18"	RCP	-
P-2A	S-2	S-2A	18	14	894.91	894.98	0.50%	12"	RCP	-
P-2B	S-2A	S-2B	12	9	894.98	895.03	0.59%	12"	RCP	-
P-2C	S-2	S-2C	19	15	894.91	894.99	0.55%	12"	RCP	-
P-3	S-3	S-4	273	270	897.00	907.00	3.70%	18"	RCP	-
P-3A	S-3	S-3A	18	15	897.50	898.43	6.20%	12"	RCP	-
P-4	S-4	S-4A	31	28	907.50	908.77	4.61%	12"	RCP	-
P-4A	S-4	S-4B	32	28	907.50	908.65	4.05%	12"	RCP	-
P-4B	S-4	S-4C	43	40	907.50	907.74	0.60%	12"	RCP	-
P-4C	S-4C	S-4D	31	29	907.74	907.89	0.52%	12"	RCP	-
* P-5	S-5	S-6	84	80	899.84	900.13	0.36%	18"	RCP	-
* P-5A	S-5	S-5A	27	23	900.34	900.46	0.52%	12"	RCP	-
P-5B	S-5	S-5B	8	4	900.09	900.12	0.70%	15"	RCP	-
P-5C	S-5C	S-5	79	73	899.10	899.84	1.01%	18"	RCP	-
* P-6	S-6	S-6A	112	109	900.13	900.53	0.38%	15"	RCP	NCM
* P-6A	S-6A	S-6B	128	125	900.53	900.96	0.33%	15"	RCP	-
* P-7	S-6B	S-7A	17	15	900.96	902.17	8.23%	15"	RCP	-
P-7A	S-7A	S-7B	17	14	902.17	903.49	0.51%	12"	RCP	-
* P-7B	S-6B	S-7	18	15	900.96	901.00	0.26%	12"	RCP	NCM
P-8	S-7	S-8	73	70	901.00	905.33	6.17%	15"	RCP	-

## STORM STRUCTURE

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	AS 3852-012	10'BS'+45.94	RT-3.52	5X7 CATCHBASIN	-
RS-2	AS 4051-012	32'KA'+51.74	RT-9.80	4X4 SAS	-
RI-1	IN 3852-015	10'BS'+62.90	RT-20.74	DOUBLE H INLET	PAID AS REMOVE INLET X 2
RI-2	IN 3852-016	10'BS'+62.82	LT-19.65	H INLET	-
RI-3	IN 4051-011	32'KA'+47.00	RT-18.00	H INLET	-
RI-4	IN 4051-010	32'KA'+51.50	RT-18.00	H INLET	-
RI-5	IN 4051-009	32'KA'+56.00	RT-18.00	H INLET	-

## ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-0	10'BS'+45.94	RT-3.52	STORM	STM PIPE INV = 892.69, ELEVATION CONFIRMED-NO CHANGE
* ULO-1	13'BS'+32.24	CL	GAS	NOT COMPLETED DUE TO GAS RELOCATION
* ULO-2	16'BS'+21.10	RT-22.96	GAS	NOT COMPLETED DUE TO GAS RELOCATION
* ULO-3	32'KA'+53.44	LT-13.76	FO	2.5' x 4' DUCT PACKAGE TOP = 902.44, DELETE S-5A & P5A
* ULO-4	34'KA'+25.00	RT-10.76	GAS	2IN PLASTIC; P-6 RELOCATED TOP = 904.18
* ULO-5	35'KA'+57.00	LT-13.60	FO	2.5' x 3' DUCT PACKAGE TOP = 905.34, STORM LOWERED
* ULO-6A	35'KA'+83.00	LT-17.50	ELEC	2 IN PLASTIC TOP = 905.07, STORM LOWERED
* ULO-6B	35'KA'+83.01	LT-17.51	TV	1 IN PLASTIC TOP = 904.97, STORM LOWERED
* ULO-7	36'KA'+43.09	LT-18.80	GAS	2 IN PLASTIC TOP = 906.27, VERTICAL CLEARANCE
* ULO-8	31'KA'+95.00	LT-40.82	STORM	CONFIRMED ELEVATION, STORM PIPE INV = 989.84
* ULO-9A	35'KA'+69.00	LT-18.82	GAS	2 IN PLASTIC TOP = 904.35, GAS RELOCATE NEEDED
* ULO-9B	35'KA'+77.59	LT-18.82	GAS	1 IN PLASTIC TOP = 904.89, GAS RELOCATE NEEDED
* ULO-9C	35'KA'+77.60	LT-18.83	GAS	2 IN PLASTIC TOP = 904.39, GAS RELOCATE NEEDED
* ULO-10A	35'KA'+79.95	RT-17.52	GAS	1 IN PLASTIC TOP = 905.70, STORM LOWERED
* ULO-10B	35'KA'+81.03	RT-17.52	ELEC	2 IN PLASTIC TOP = 905.65, STORM LOWERED
* ULO-10C	35'KA'+81.04	RT-17.52	TV	1 IN PLASTIC TOP = 905.64, STORM LOWERED

## STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	S-5	RI-3	10	N	12"	RCP	-
RP-2	S-5	RI-4	10	N	12"	RCP	-
RP-3	S-5	RI-5	10	N	12"	RCP	-
RP-4	S-5	S-5C	80	N	15"	RCP	-

## SPECIFIC NOTES

- (1) WITH 3FT SUMP BELOW LISTED EI
- (2) RECONNECT EXISTING 15" STM PIPE TO WEST; TOP OF CASTING ELEVATION = 904.30

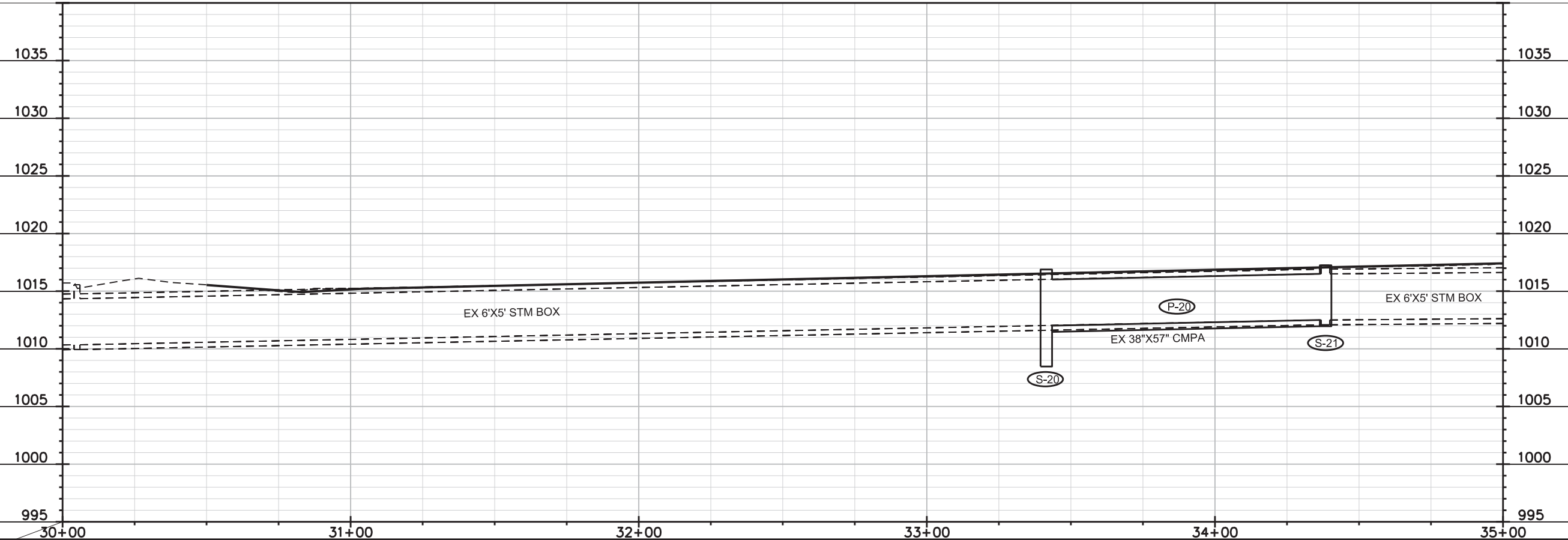
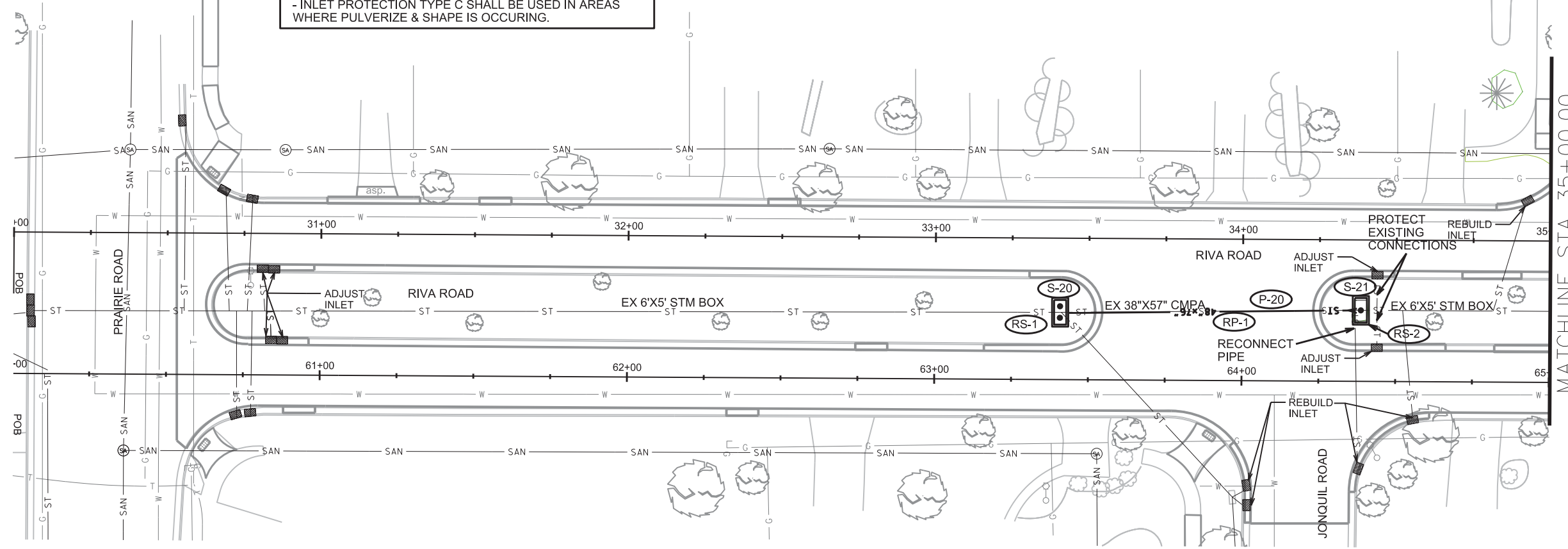
## STANDARD NOTES:

- 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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

PLOT SCALE: PLOT NAME: REV. DATE:

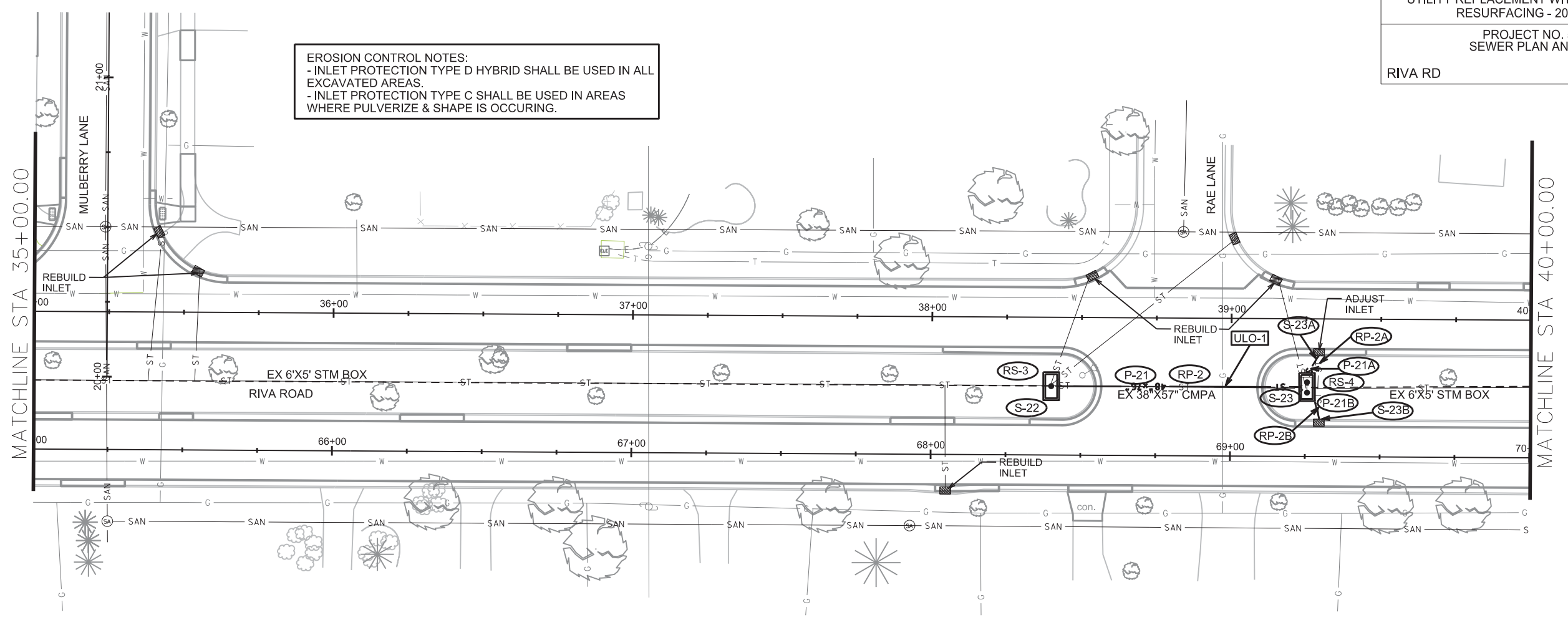
ORIGINATOR: CITY OF MADISON STREETS DIVISION

EROSION CONTROL NOTES:  
 - INLET PROTECTION TYPE D HYBRID SHALL BE USED IN ALL EXCAVATED AREAS.  
 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURRING.



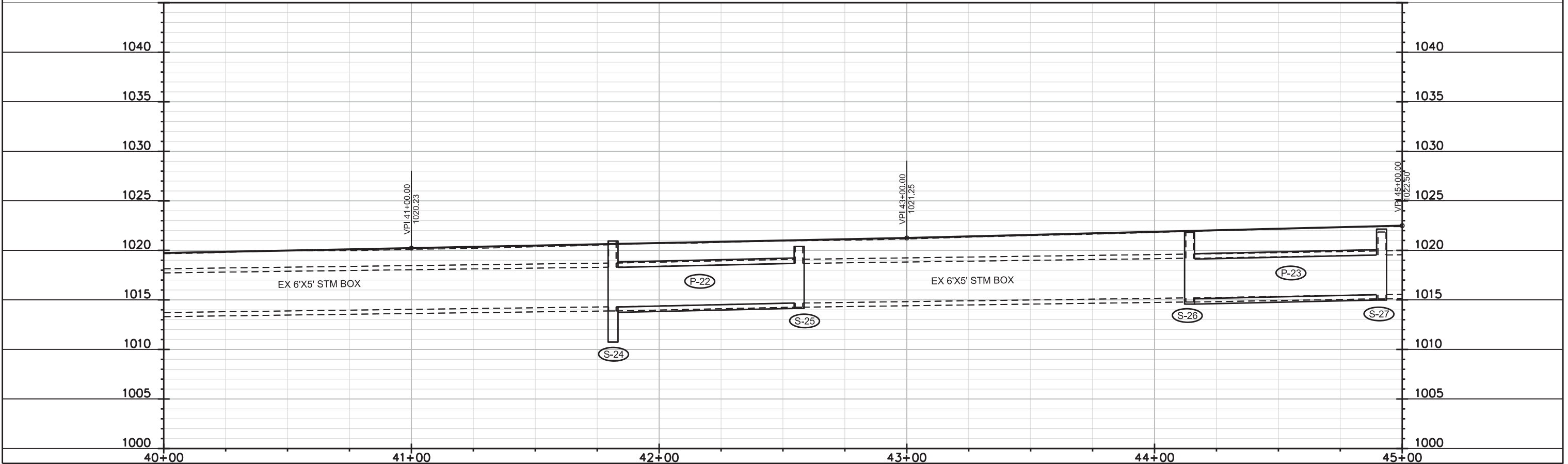
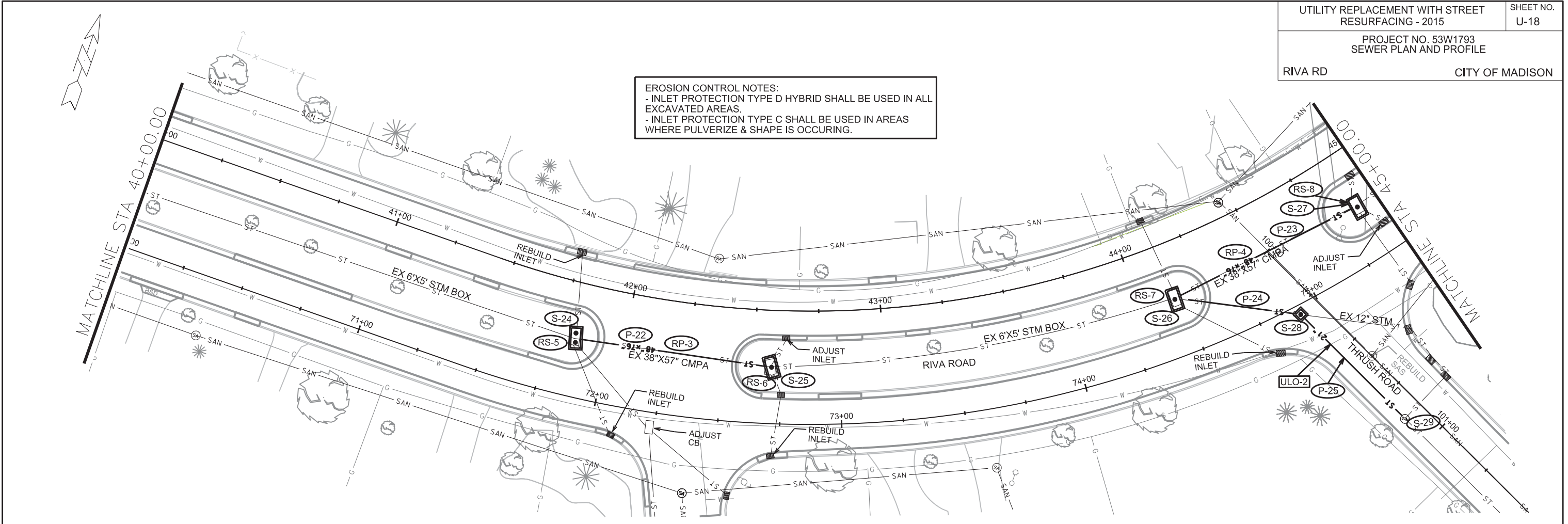
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**EROSION CONTROL NOTES:**  
 - INLET PROTECTION TYPE D HYBRID SHALL BE USED IN ALL EXCAVATED AREAS.  
 - INLET PROTECTION TYPE C SHALL BE USED IN AREAS WHERE PULVERIZE & SHAPE IS OCCURRING.



PLOT SCALE:  
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PLOT SCALE:

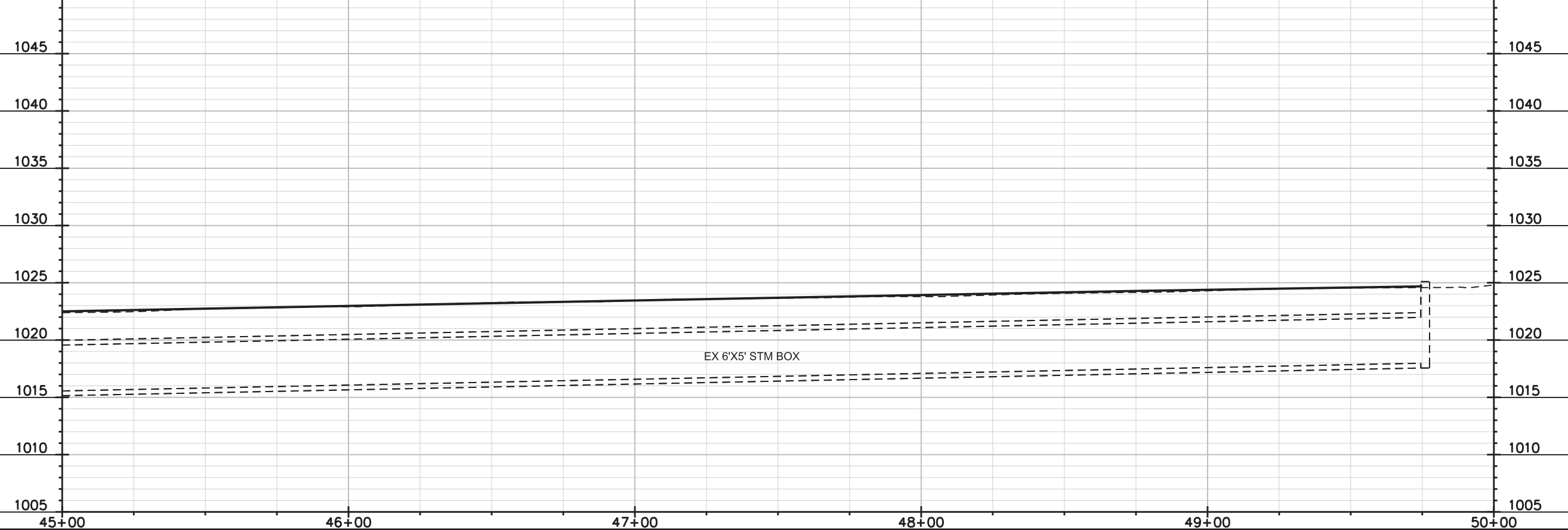
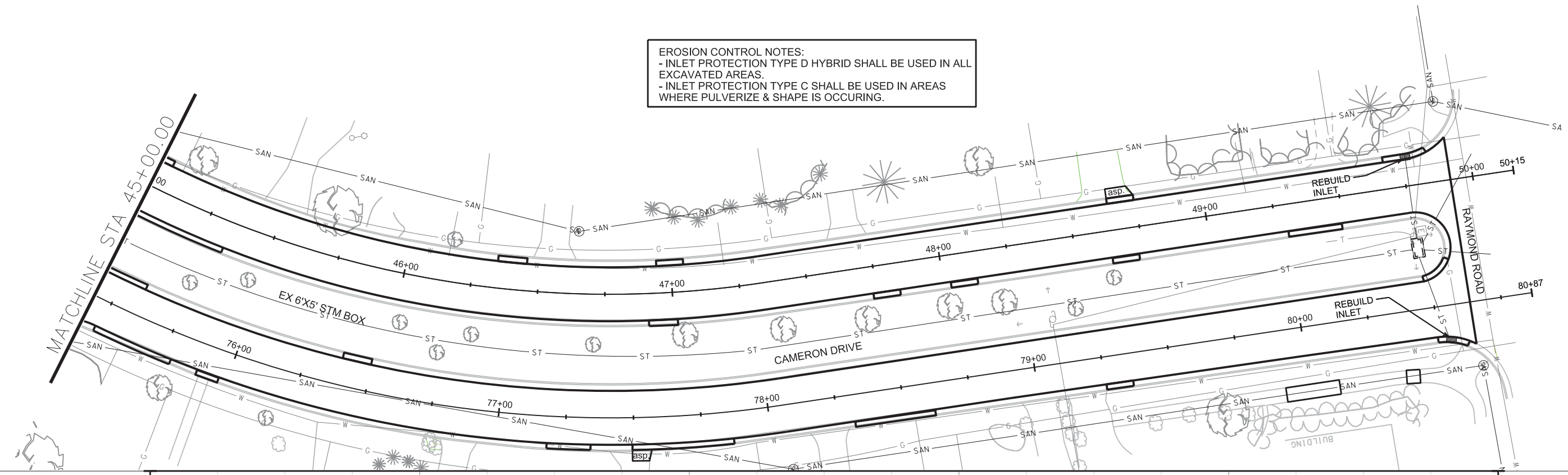
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# STORM SEWER SCHEDULE

**ALIGNMENT CODES:**  
'RR'= RIVA RD

\*REVISED 5/22/15 JAW

UTILITY REPLACEMENTS WITH RESURFACING PROJECT NO. 53W1793	SHEET NO. U-20
RIVA RD STORM SEWER SCHEDULE	
CITY OF MADISON	

## STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-20	63'RR'+41.75	LT-21.65	8X4 CATCHBASIN	1016.88	1012.01	4.87	FP; W/ TWO R-1550-0054; NOTES (1), (2) & (3)
S-21	64'RR'+38.72	LT-23.08	8X4 SAS	1017.25	1012.50	4.75	FP;W/ R-1550-0054; NOTES (2) & (3)
S-22	68'RR'+40.15	LT-23.00	8X4 SAS	1018.94	1013.07	5.87	FP; W/ R-1550-0054; NOTES (2) & (3)
S-23	69'RR'+25.61	LT-23.21	8X4 CATCHBASIN	1019.19	1013.49	5.70	FP; W/ TWO R-1550-0054; NOTES (1), (2) & (3)
S-23A	69'RR'+30.00	LT-33.63	TAP	-	FIELD	-	TAP EX IN 3068-061
S-23B	69'RR'+30.00	LT-11.63	TAP	-	FIELD	-	TAP EX IN 3068-062
S-24	71'RR'+86.30	LT-23.40	8X4 CATCHBASIN	1020.94	1014.29	6.65	FP; W/ TWO R-1550-0054; NOTES (1), (2) & (3)
S-25	72'RR'+70.47	LT-22.79	8X4 SAS	1020.40	1014.69	5.71	FP; W/ R-1550-0054; NOTES (2) & (3)
S-26	74'RR'+46.97	LT-23.15	9X4 SAS	1021.82	1015.12	6.70	FP; W/ R-1550-0054; NOTES (2) & (3)
S-27	75'RR'+33.80	LT-22.62	8X4 SAS	1022.15	1015.53	6.62	FP; W/ R-1550-0054; NOTES (2) & (3)
S-28	74'RR'+91.28	RT-3.84	3X3 SAS	1021.99	1017.51	4.48	FP; W/ R-1550-0054; NOTES (2) & (3)
S-29	75'RR'+07.10	RT-60.89	TAP	-	1018.93	-	TAP EX CB 3168-023

## PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	PLAN LGTH (FT)	PIPE LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-20	S-20	S-21	97	93	1012.50	1012.01	0.53%	48"X76"	HERCP	-
P-21	S-22	S-23	85	81	1013.07	1013.49	0.52%	48"X76"	HERCP	-
P-21A	S-23	S-23A	10	6	FIELD	FIELD	FIELD	12"	STORM	-
P-21B	S-23	S-23B	10	6	FIELD	FIELD	FIELD	12"	STORM	-
P-22	S-24	S-25	79	75	1014.29	1014.69	0.53%	48"X76"	HERCP	-
P-23	S-26	S-27	82	78	1015.12	1015.53	0.53%	48"X76"	HERCP	-
P-24	S-26	S-28	51	47	1017.07	1017.51	0.94%	24"	RCP	-
P-25	S-28	S-29	60	57	1017.51	1018.93	2.51%	21"	RCP	-

## STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES:
RS-1	MI-3068-027	63'RR'+41.75	LT-21.65	CONCRETE COLLAR	PIPE MATERIAL CHANGE; NOTE (4)
RS-2	AS3068-059	64'RR'+38.72	LT-23.08	3X7 STRUCTURE	-
RS-3	MI 3068-025	68'RR'+40.15	LT-23.00	CONCRETE COLLAR	PIPE MATERIAL CHANGE; NOTE (4)
RS-4	AS3068-060	69'RR'+25.61	LT-23.21	3X7 STRUCTURE	-
RS-5	MI 3068-023	71'RR'+86.30	LT-23.40	CONCRETE COLLAR	PIPE MATERIAL CHANGE; NOTE (4)
RS-6	AS 3068-063	72'RR'+70.47	LT-22.79	3X7 STRUCTURE	-
RS-7	MI 3168-015	74'RR'+46.97	LT-23.15	CONCRETE COLLAR	PIPE MATERIAL CHANGE; NOTE (4)
RS-8	AS 3168-020	75'RR'+33.80	LT-22.62	3X7 STRUCTURE	-

## ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	Top Elev.	TYPE	NOTES
* ULO-1A	69'RR'+6.00	RT-23.00	1013.43	GAS	4" PLASTIC CONFLICT (COORDINATE MGE TO LOWER BELOW 1012.80)
* ULO-2A	74'RR'+90.00	RT-21.00	1019.16	GAS	3" STEEL CONFLICT (COORDINATE MGE TO RELOCATE)
* ULO-2B	74'RR'+90.00	RT-25.00	1018.1	GAS	2" PLASTIC CONFLICT (COORDINATE MGE TO RELOCATE)

## STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	RS-1	RS-2	97	N	38"X57"	CMPA	-
RP-2	RS-3	RS-4	85	N	38"X57"	CMPA	-
RP-2A	RS-4	S-23A	10	N	12"	RCP	-
RP-2B	RS-4	S-23B	10	N	12"	RCP	-
RP-3	RS-5	RS-6	79	N	38"X57"	CMPA	-
RP-4	RS-7	RS-8	82	N	38"X57"	CMPA	-

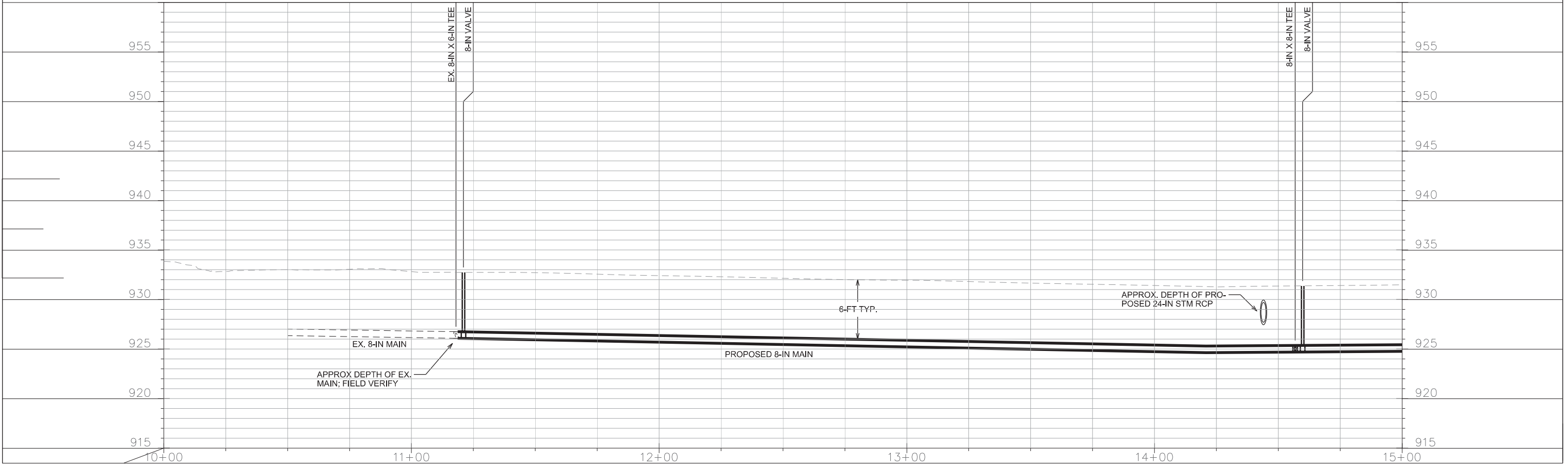
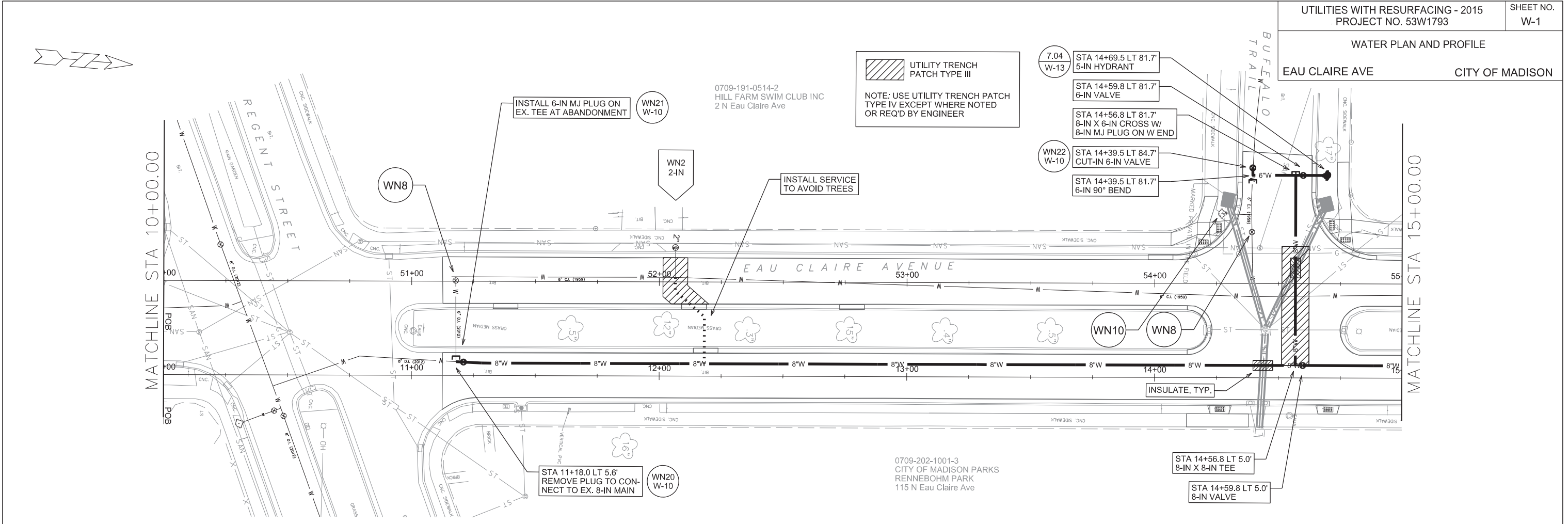
## STANDARD NOTES:

- 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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD Poured SHALL BE FIELD Poured. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD Poured) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

## SPECIFIC NOTES

- (1) WITH 3FT SUMP BELOW LISTED EI
- (2) RECONNECT EXISTING STM PIPE(S)
- (3) FIELD VERIFY EI
- (4) INCIDENTAL TO NEW PIPE AND STRUCTURE

WATER PLAN AND PROFILE  
EAU CLAIRE AVE CITY OF MADISON

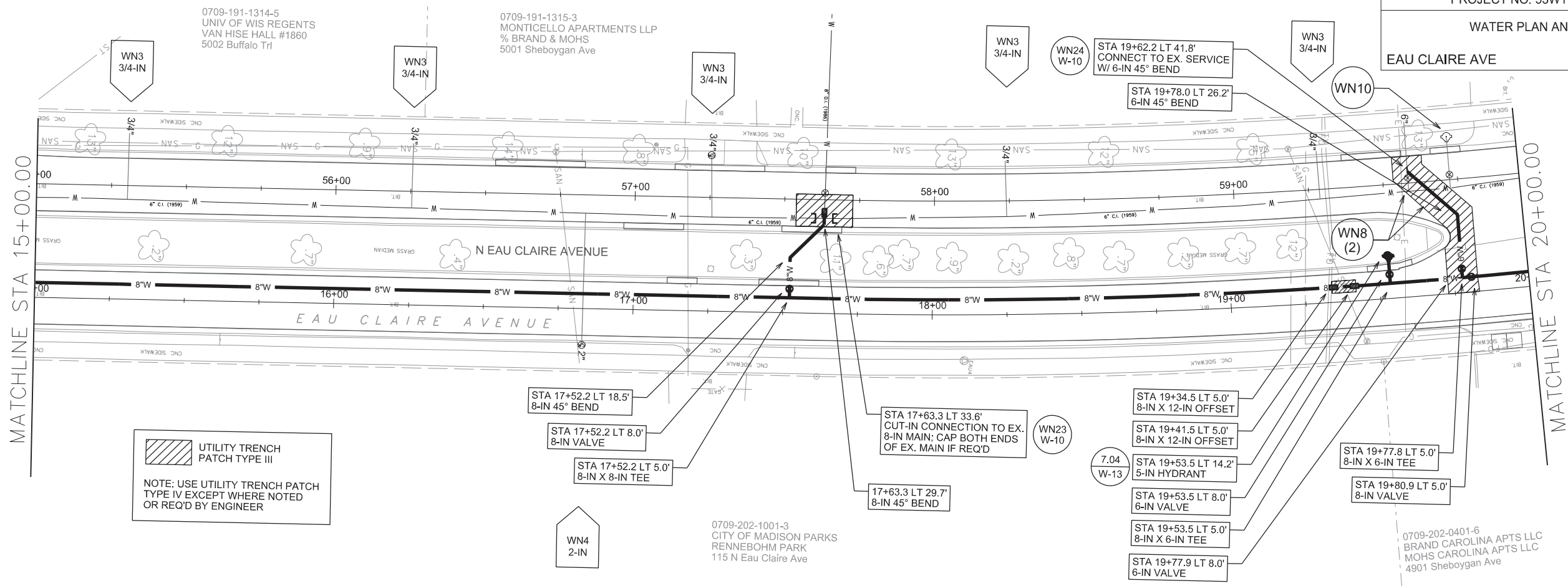


PLOT SCALE:

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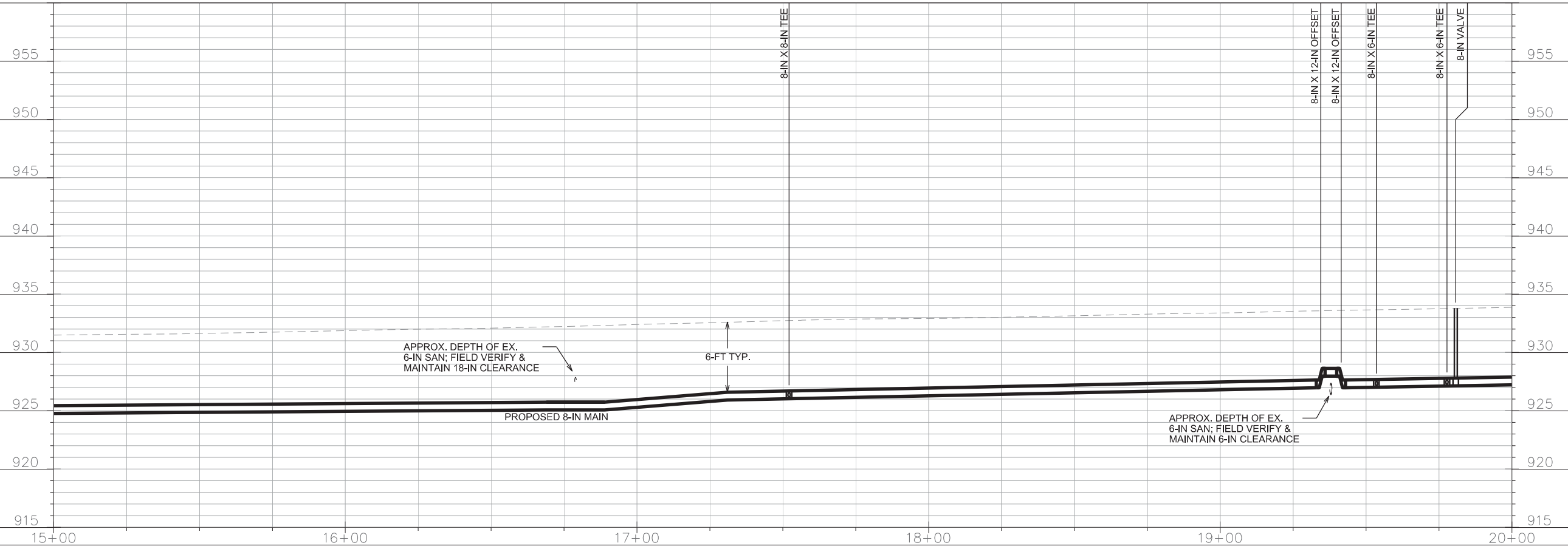


UTILITY TRENCH PATCH TYPE III

NOTE: USE UTILITY TRENCH PATCH TYPE IV EXCEPT WHERE NOTED OR REQ'D BY ENGINEER

MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00

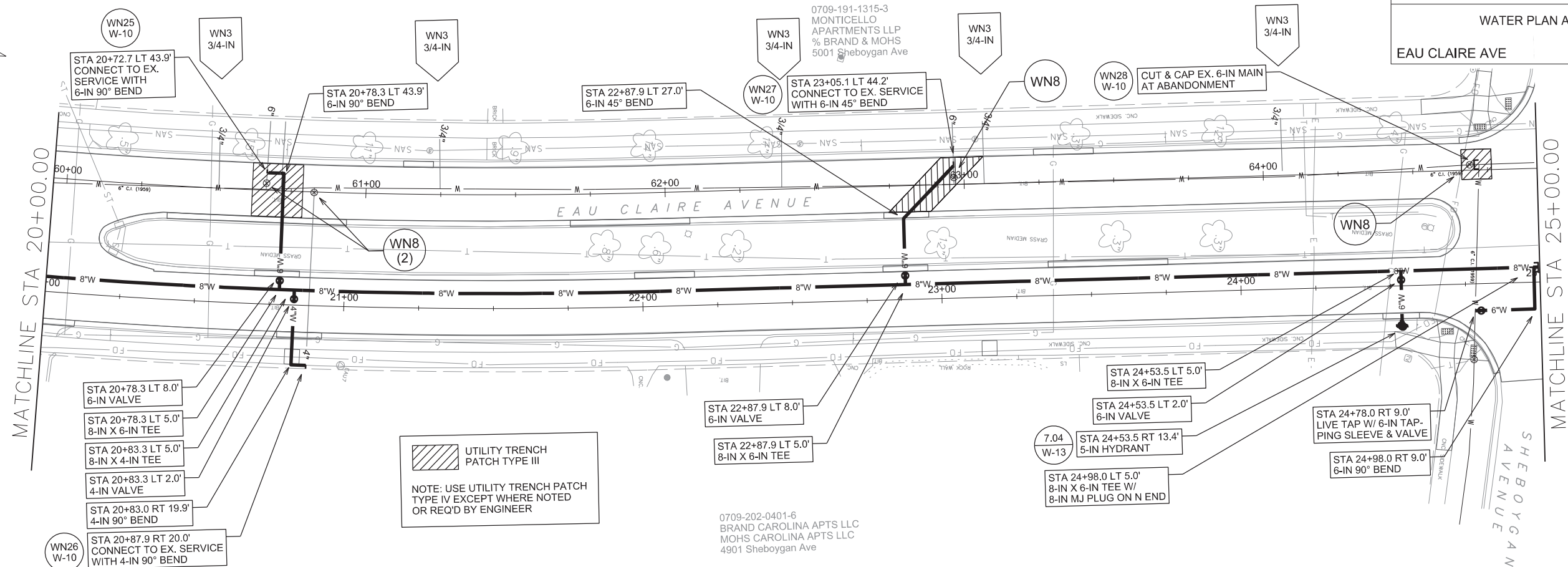


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REV. DATE:

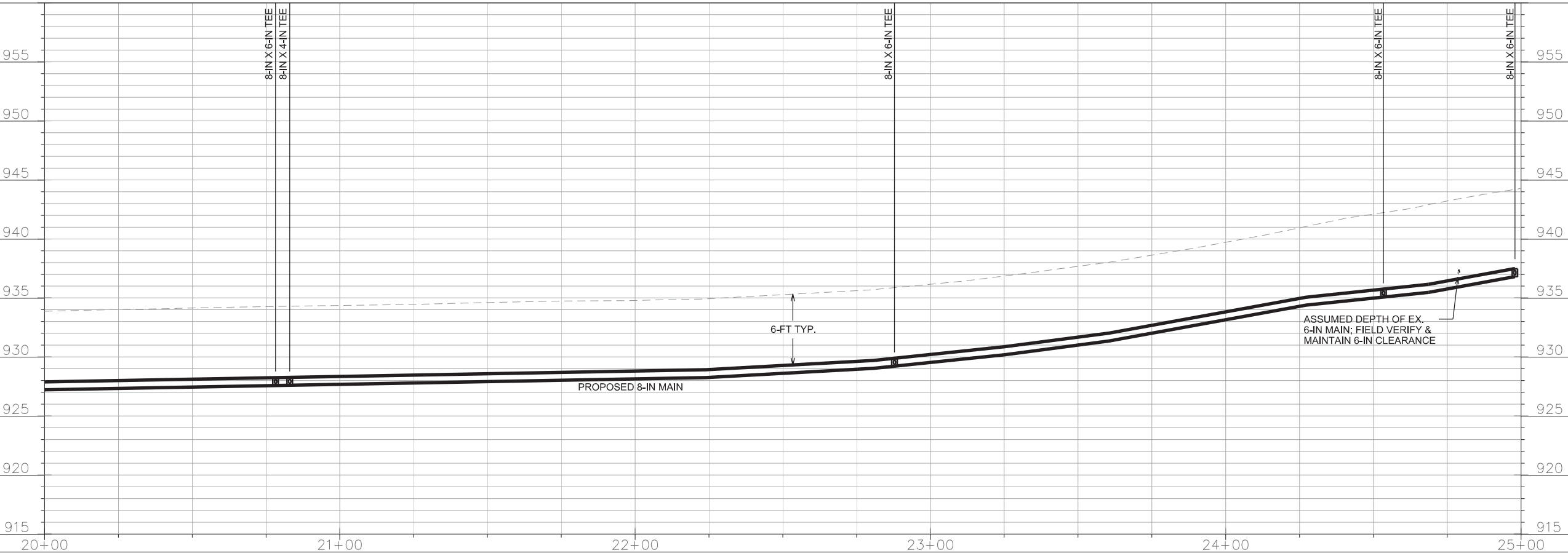
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



UTILITY TRENCH PATCH TYPE III

NOTE: USE UTILITY TRENCH PATCH TYPE IV EXCEPT WHERE NOTED OR REQ'D BY ENGINEER

0709-202-0401-6  
BRAND CAROLINA APTS LLC  
MOHS CAROLINA APTS LLC  
4901 Sheboygan Ave



PLOT SCALE:

PLOT NAME:

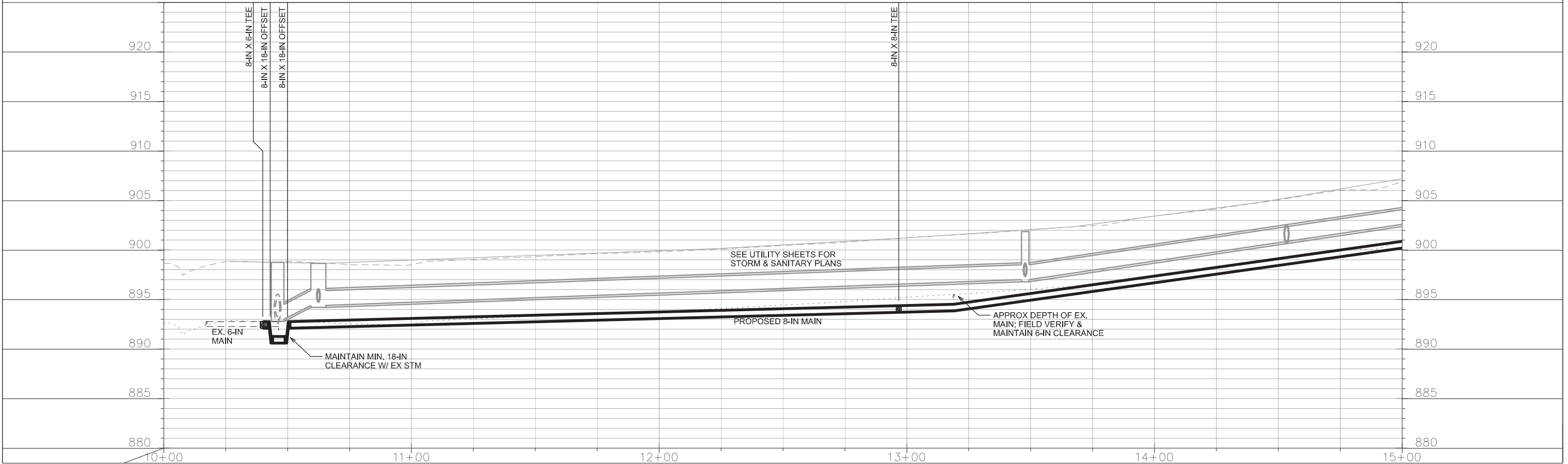
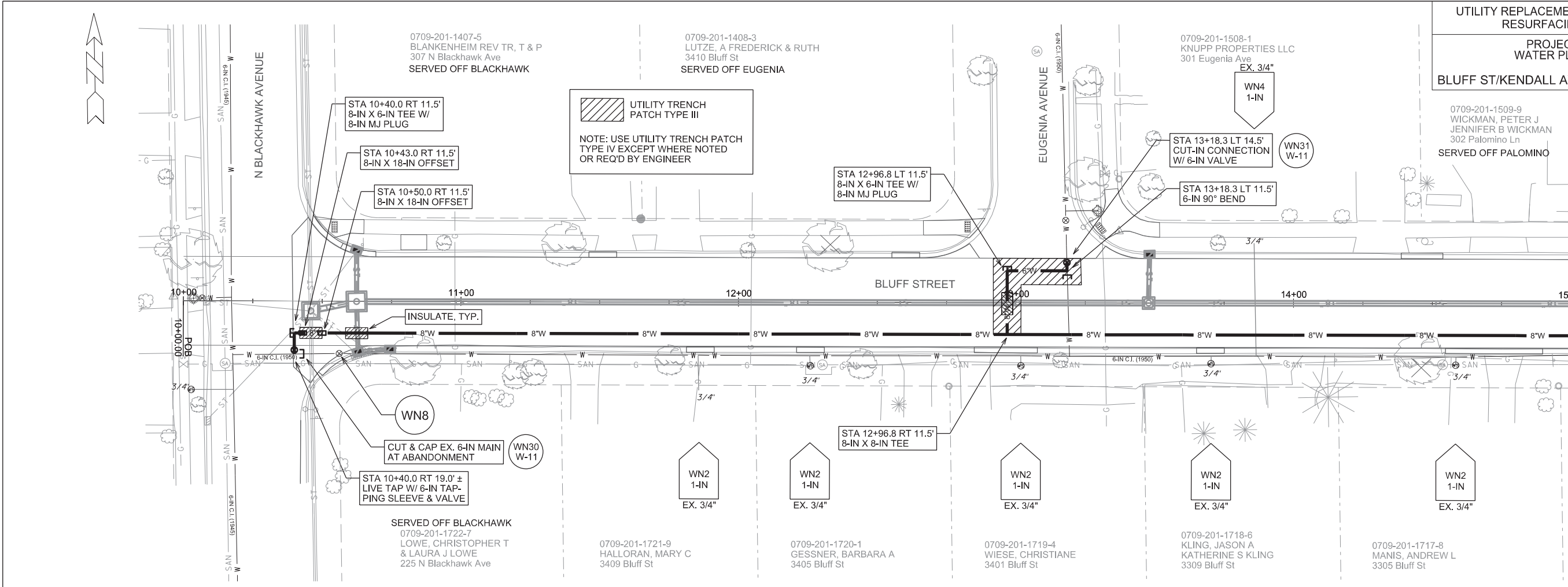
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



0709-201-1509-9  
 WICKMAN, PETER J  
 JENNIFER B WICKMAN  
 302 Palomino Ln  
 SERVED OFF PALOMINO

MATCHLINE STA 15+00.00

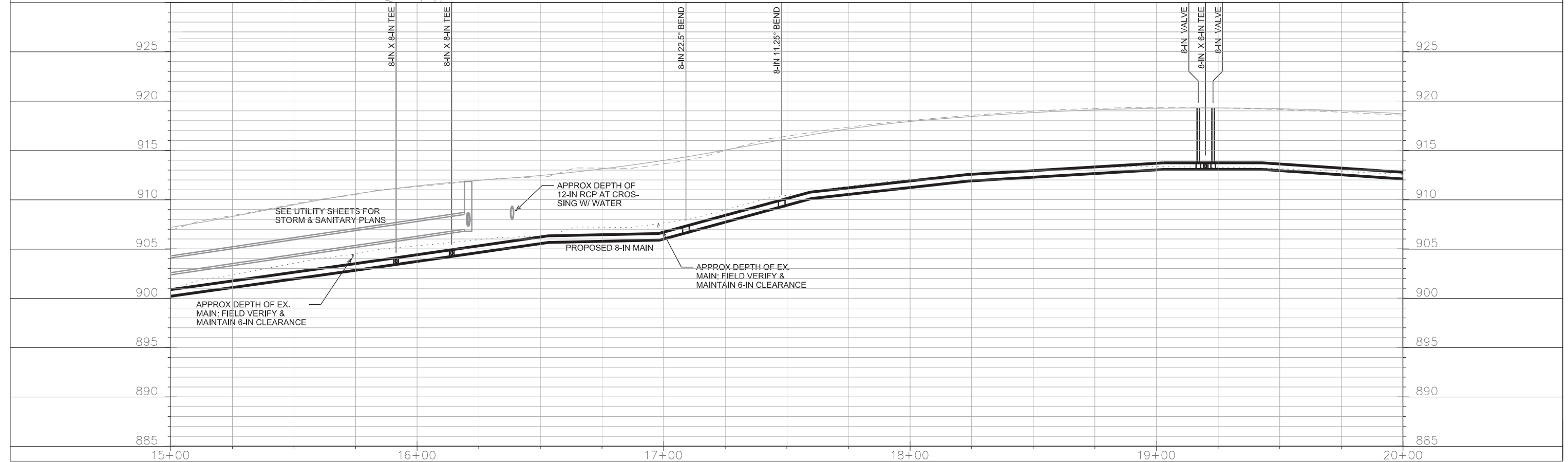
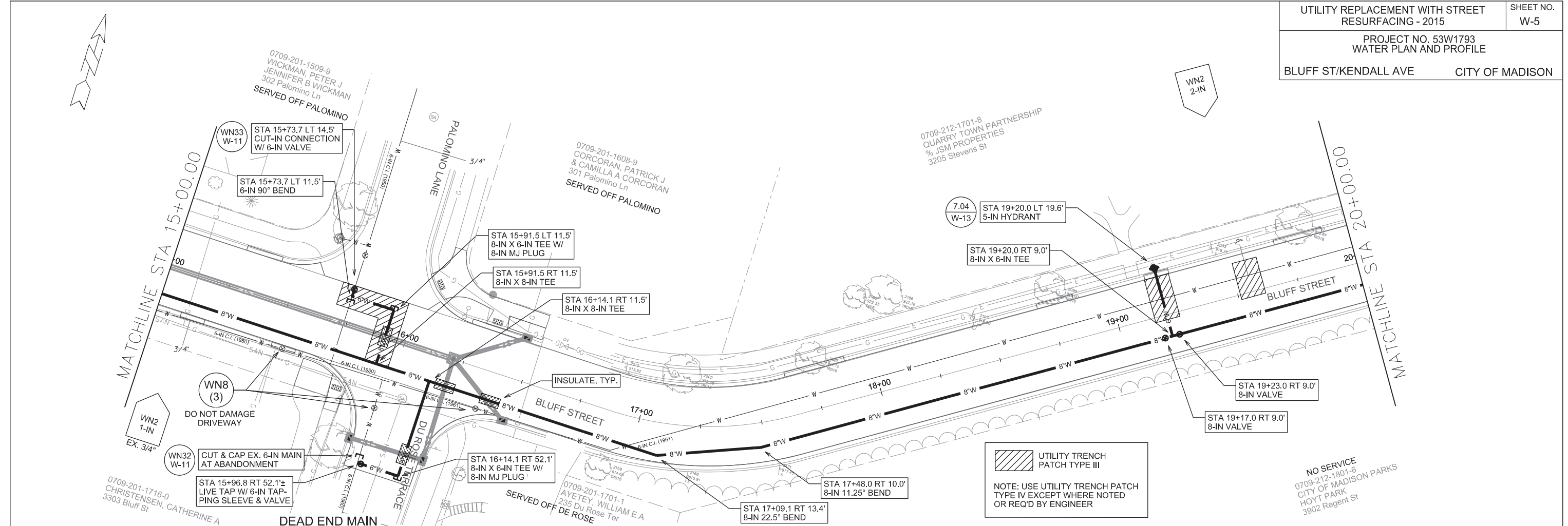


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PLOT NAME: \_\_\_\_\_

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

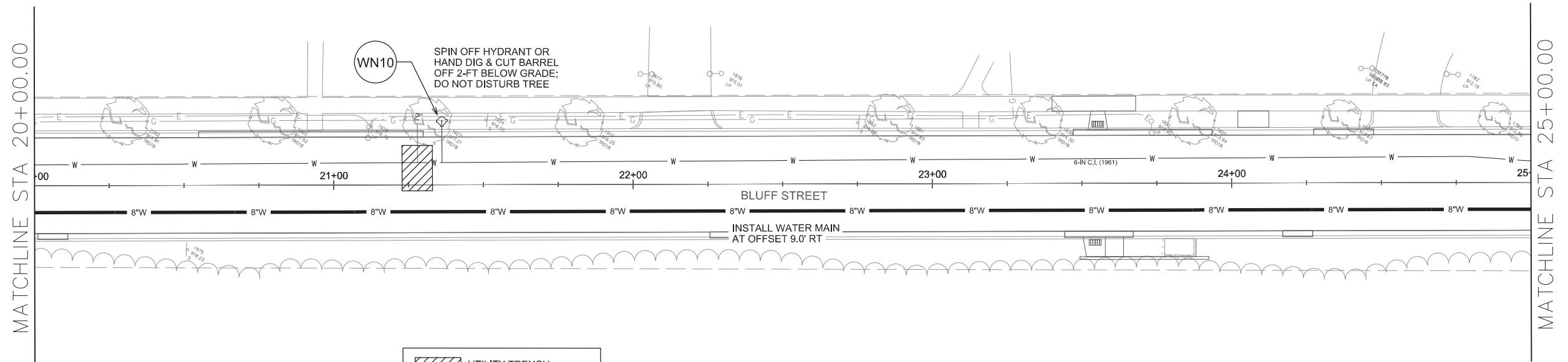
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

0709-212-1701-8  
 QUARRY TOWN PARTNERSHIP  
 % JSM PROPERTIES  
 3205 Stevens St

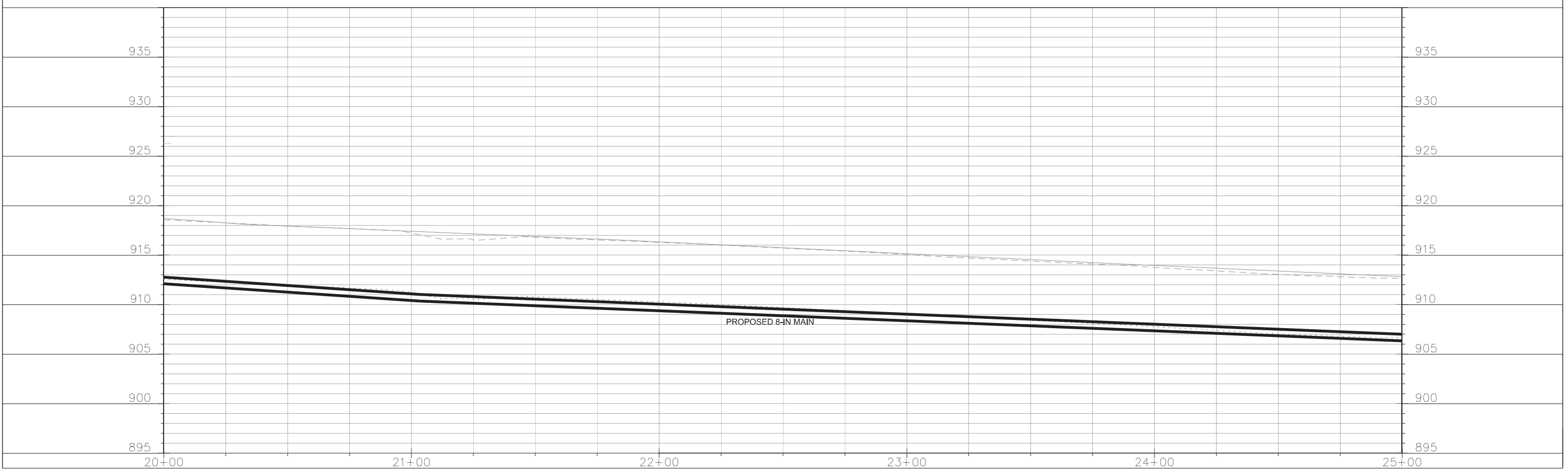
WN2  
 2-IN



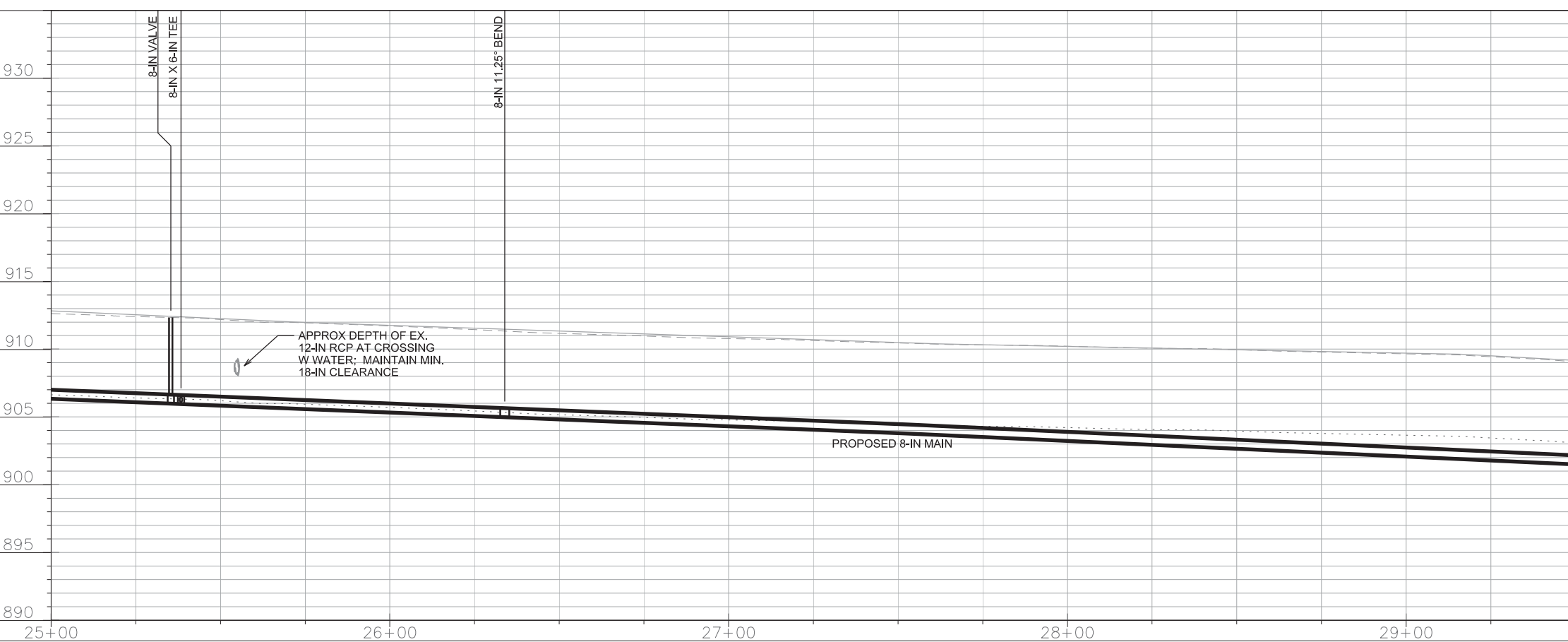
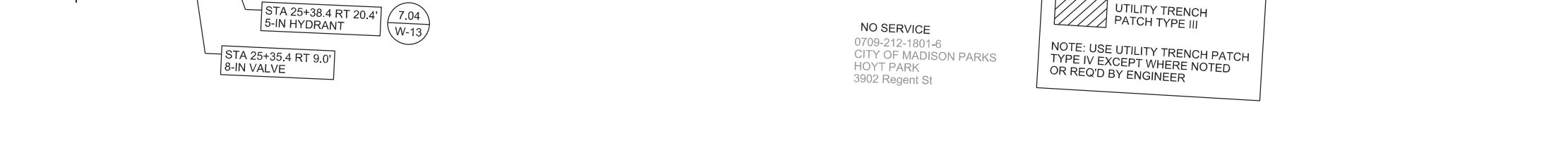
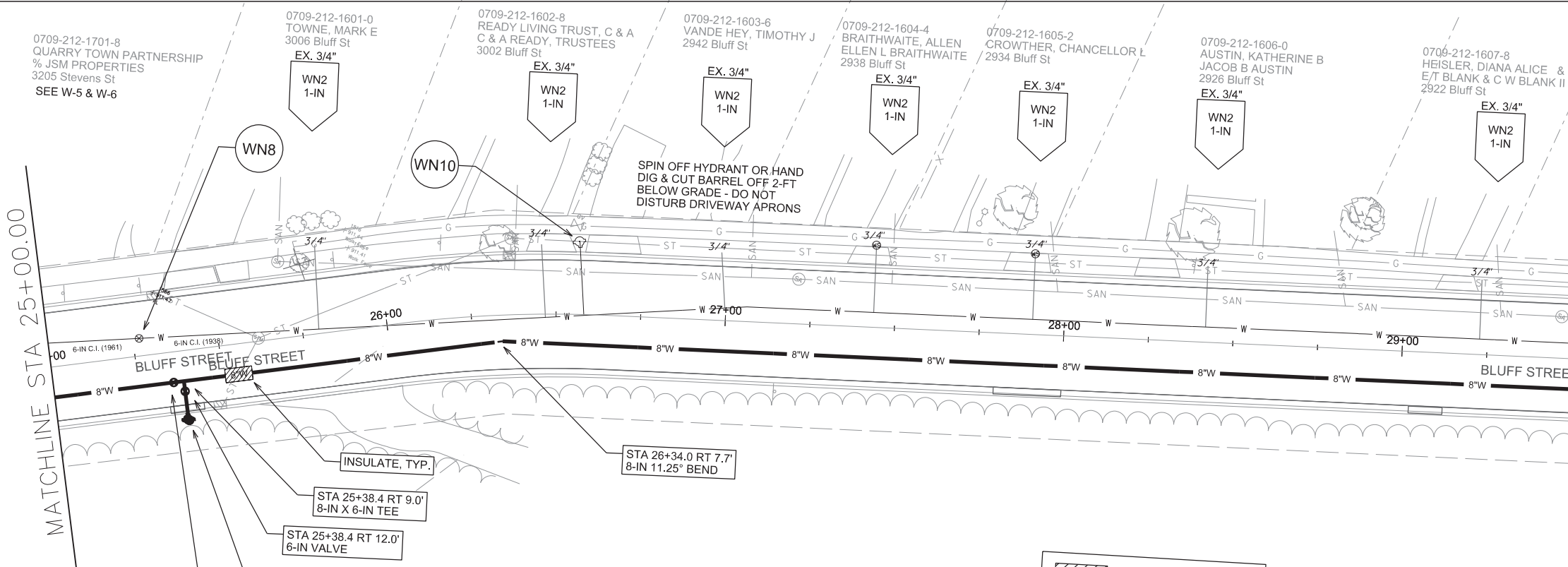
UTILITY TRENCH PATCH TYPE III

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NO SERVICE  
 0709-212-1801-6  
 CITY OF MADISON PARKS  
 HOYT PARK  
 3902 Regent St

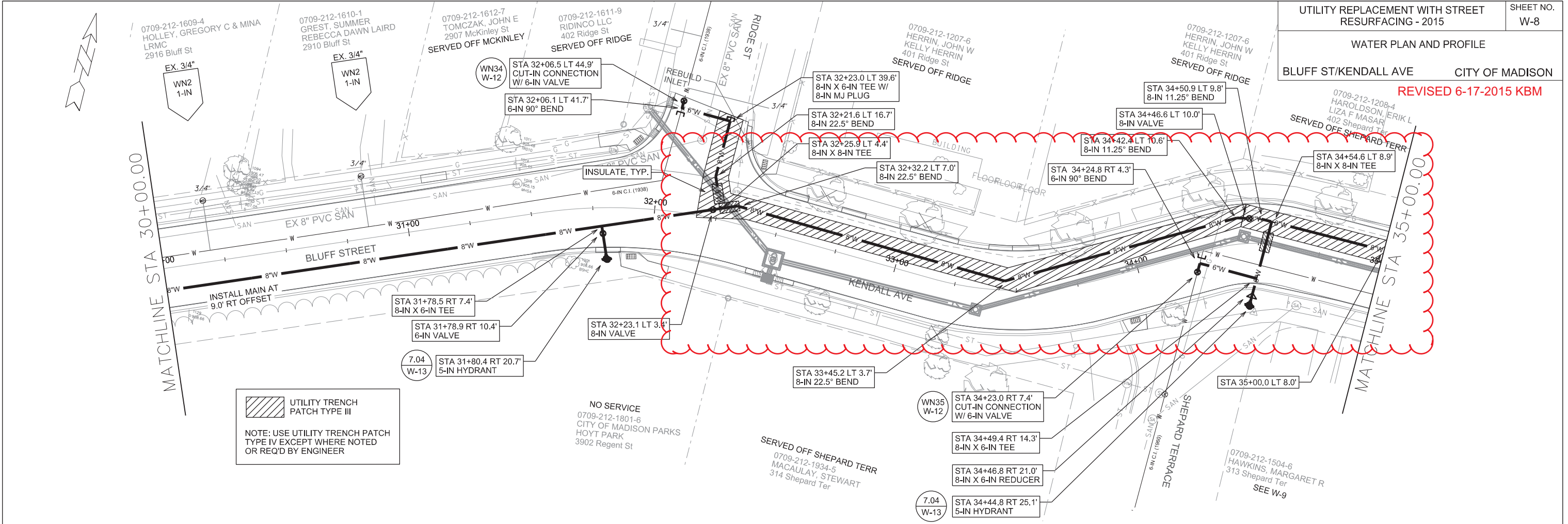


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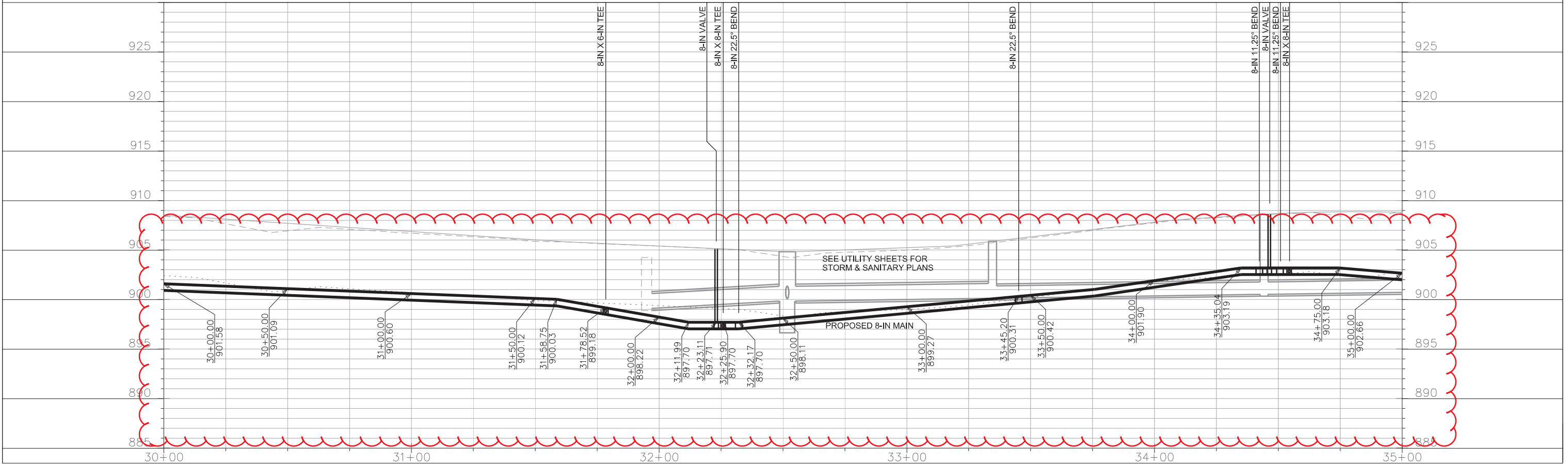


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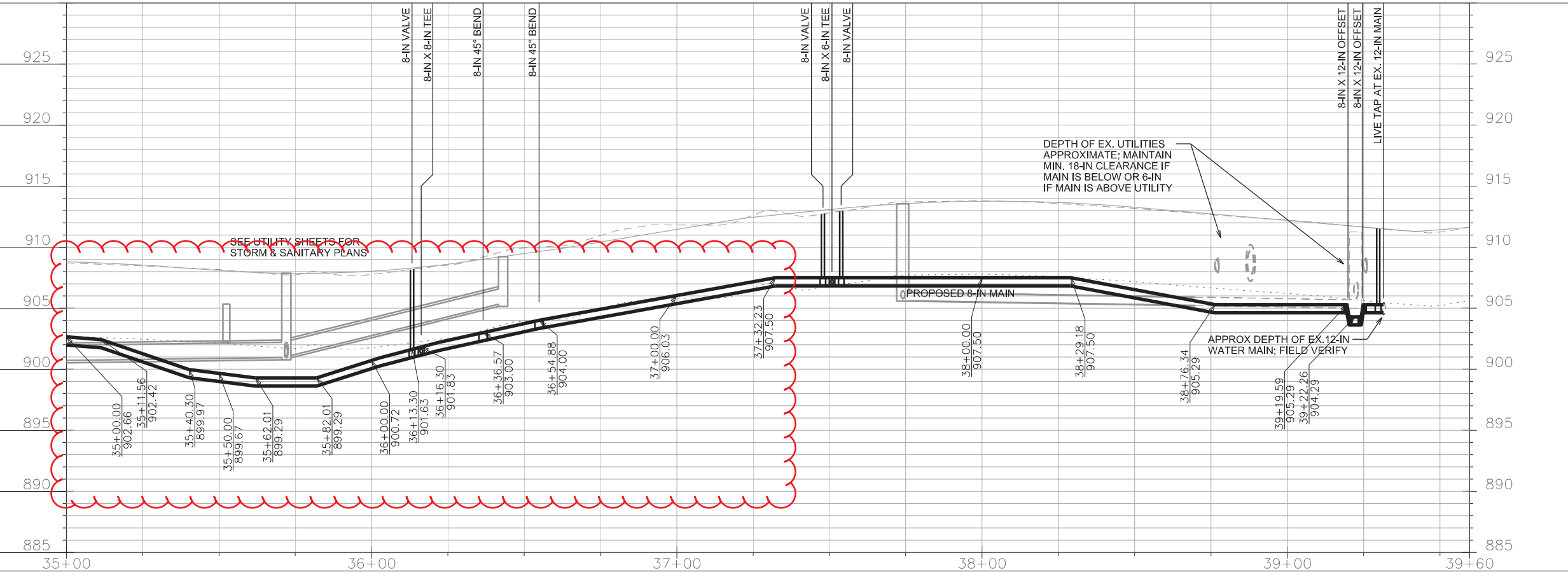
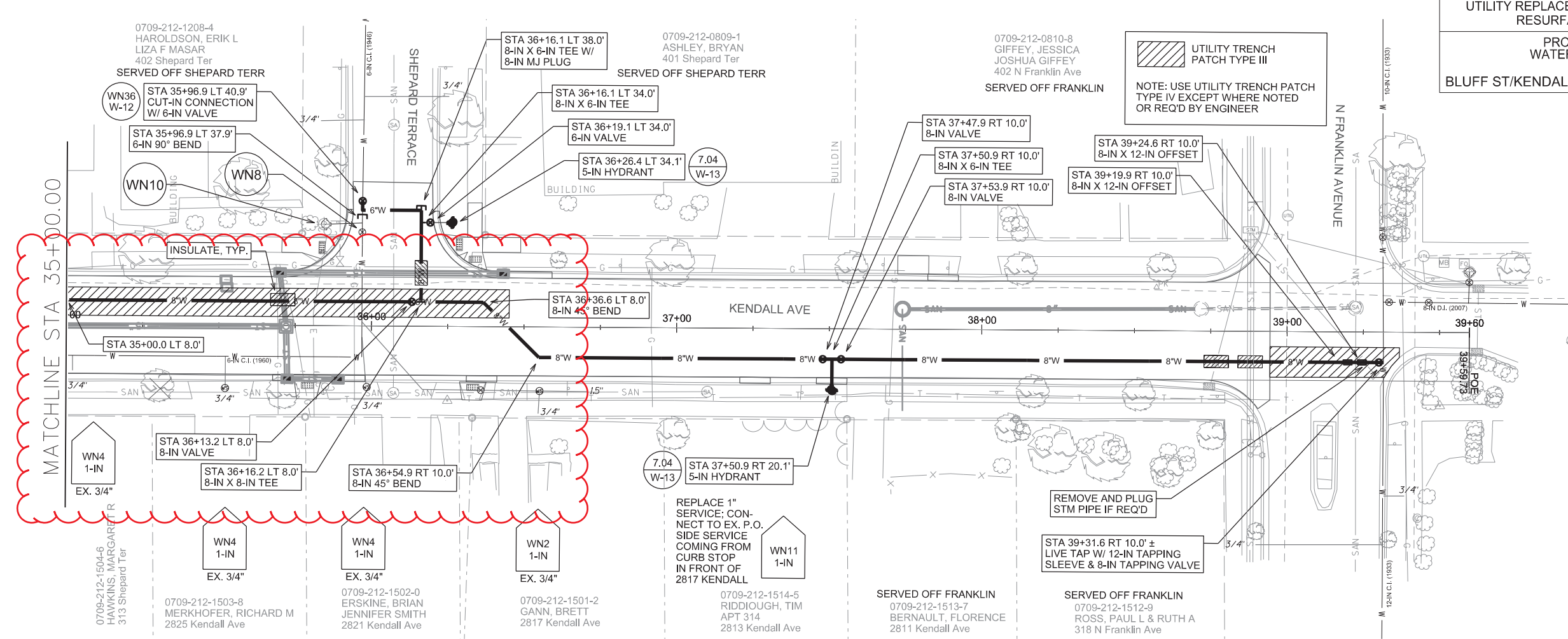


UTILITY TRENCH PATCH TYPE III  
 NOTE: USE UTILITY TRENCH PATCH TYPE IV EXCEPT WHERE NOTED OR REQ'D BY ENGINEER





REVISED 6-17-2015 KBM

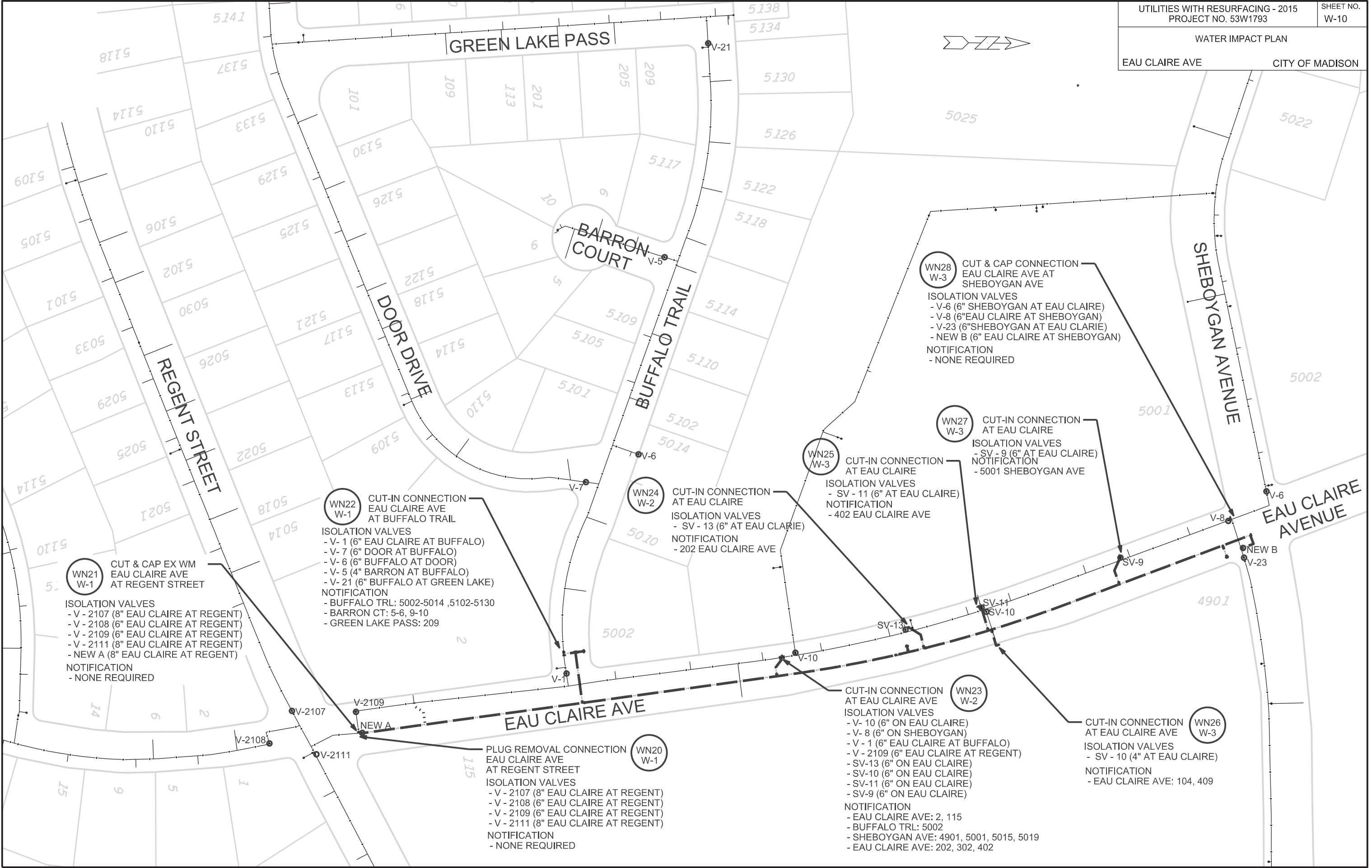


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**WN21 W-1** CUT & CAP EX WM EAU CLAIRE AVE AT REGENT STREET

ISOLATION VALVES  
 - V - 2107 (8" EAU CLAIRE AT REGENT)  
 - V - 2108 (6" EAU CLAIRE AT REGENT)  
 - V - 2109 (6" EAU CLAIRE AT REGENT)  
 - V - 2111 (8" EAU CLAIRE AT REGENT)  
 - NEW A (8" EAU CLAIRE AT REGENT)

NOTIFICATION  
 - NONE REQUIRED

**WN22 W-1** CUT-IN CONNECTION EAU CLAIRE AVE AT BUFFALO TRAIL

ISOLATION VALVES  
 - V- 1 (6" EAU CLAIRE AT BUFFALO)  
 - V- 7 (6" DOOR AT BUFFALO)  
 - V- 6 (6" BUFFALO AT DOOR)  
 - V- 5 (4" BARRON AT BUFFALO)  
 - V- 21 (6" BUFFALO AT GREEN LAKE)

NOTIFICATION  
 - BUFFALO TRL: 5002-5014 ,5102-5130  
 - BARRON CT: 5-6, 9-10  
 - GREEN LAKE PASS: 209

**WN20 W-1** PLUG REMOVAL CONNECTION EAU CLAIRE AVE AT REGENT STREET

ISOLATION VALVES  
 - V - 2107 (8" EAU CLAIRE AT REGENT)  
 - V - 2108 (6" EAU CLAIRE AT REGENT)  
 - V - 2109 (6" EAU CLAIRE AT REGENT)  
 - V - 2111 (8" EAU CLAIRE AT REGENT)

NOTIFICATION  
 - NONE REQUIRED

**WN24 W-2** CUT-IN CONNECTION AT EAU CLAIRE

ISOLATION VALVES  
 - SV - 13 (6" AT EAU CLARIE)

NOTIFICATION  
 - 202 EAU CLAIRE AVE

**WN25 W-3** CUT-IN CONNECTION AT EAU CLAIRE

ISOLATION VALVES  
 - SV - 11 (6" AT EAU CLAIRE)

NOTIFICATION  
 - 402 EAU CLAIRE AVE

**WN28 W-3** CUT & CAP CONNECTION EAU CLAIRE AVE AT SHEBOYGAN AVE

ISOLATION VALVES  
 - V-6 (6" SHEBOYGAN AT EAU CLAIRE)  
 - V-8 (6"EAU CLAIRE AT SHEBOYGAN)  
 - V-23 (6" SHEBOYGAN AT EAU CLARIE)  
 - NEW B (6" EAU CLAIRE AT SHEBOYGAN)

NOTIFICATION  
 - NONE REQUIRED

**WN27 W-3** CUT-IN CONNECTION AT EAU CLAIRE

ISOLATION VALVES  
 - SV - 9 (6" AT EAU CLAIRE)

NOTIFICATION  
 - 5001 SHEBOYGAN AVE

**WN23 W-2** CUT-IN CONNECTION AT EAU CLAIRE AVE

ISOLATION VALVES  
 - V- 10 (6" ON EAU CLAIRE)  
 - V- 8 (6" ON SHEBOYGAN)  
 - V - 1 (6" EAU CLAIRE AT BUFFALO)  
 - V - 2109 (6" EAU CLAIRE AT REGENT)  
 - SV-13 (6" ON EAU CLAIRE)  
 - SV-10 (6" ON EAU CLAIRE)  
 - SV-11 (6" ON EAU CLAIRE)  
 - SV-9 (6" ON EAU CLAIRE)

NOTIFICATION  
 - EAU CLAIRE AVE: 2, 115  
 - BUFFALO TRL: 5002  
 - SHEBOYGAN AVE: 4901, 5001, 5015, 5019  
 - EAU CLAIRE AVE: 202, 302, 402

**WN26 W-3** CUT-IN CONNECTION AT EAU CLAIRE AVE

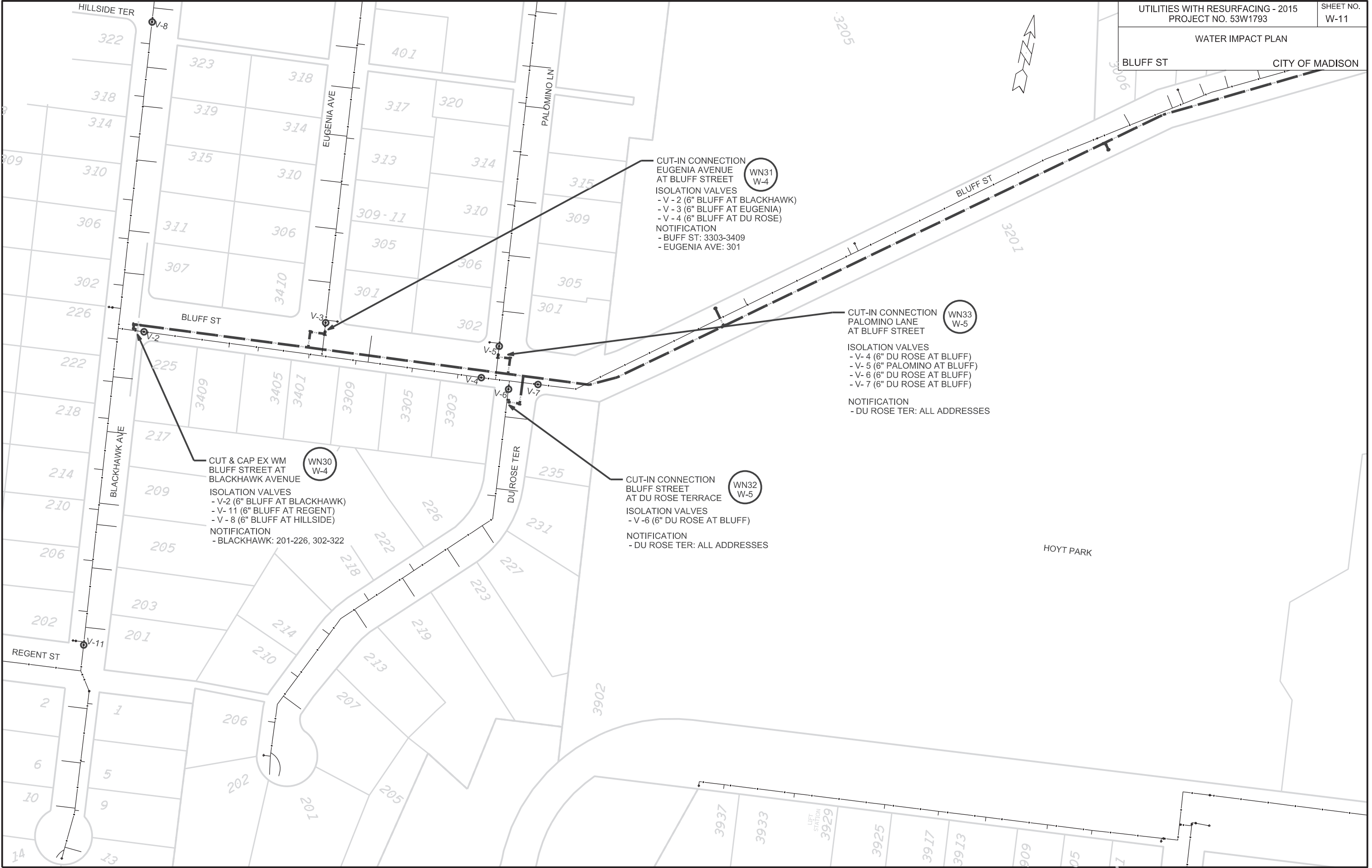
ISOLATION VALVES  
 - SV - 10 (4" AT EAU CLAIRE)

NOTIFICATION  
 - EAU CLAIRE AVE: 104, 409

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

WATER IMPACT PLAN

BLUFF ST CITY OF MADISON



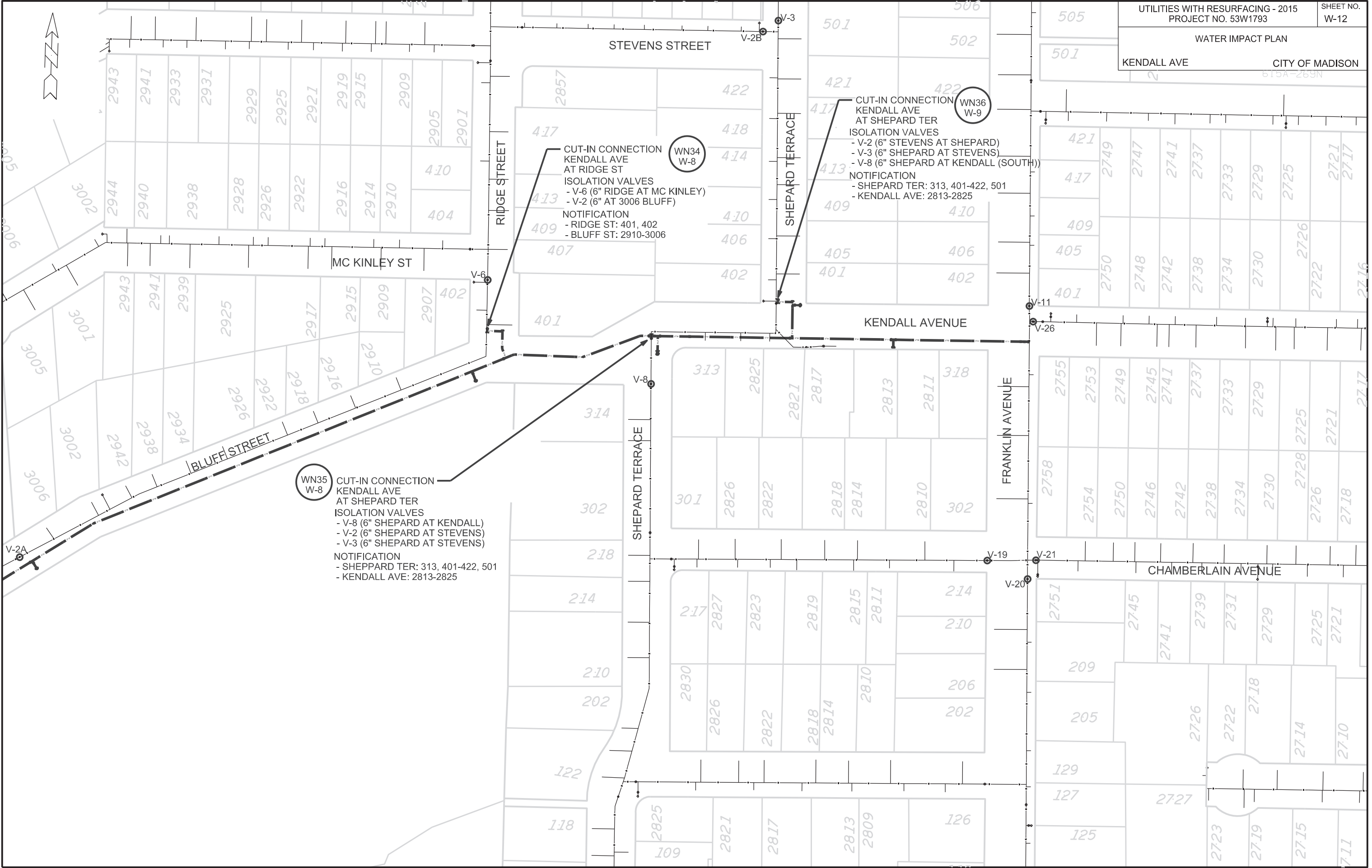
PLOT SCALE:

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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**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

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

<b>EAU CLAIRE AVE</b>	<b>KENDALL &amp; BLUFF</b>
40-FT - 4-IN PIPE	220-FT - 6-IN PIPE
260-FT - 6-IN PIPE	3080-FT - 8-IN PIPE
1500-FT - 8-IN PIPE	
1940-FT - POLYWRAP	3800-FT - POLYWRAP
1 - 4-IN VALVE & BOX	8 - 6-IN VALVE & BOX
7 - 6-IN VALVE & BOX	9 - 8-IN VALVE & BOX
4 - 8-IN VALVE & BOX	
2 - 4-IN 90° BEND	4 - 6-IN 90° BEND
4 - 6-IN 90° BEND	5 - 8-IN 22.5° BEND
4 - 6-IN 45° BEND	2 - 8-IN 11.25° BEND
2 - 8-IN 45° BEND	
1 - 8-IN X 4-IN TEE	12 - 8-IN X 6-IN TEE
6 - 8-IN X 6-IN TEE	6 - 8-IN X 8-IN TEE
2 - 8-IN X 8-IN TEE	
1 - 8-IN X 6-IN CROSS	1 - 8-IN X 6-IN REDUCER
2 - 8-IN X 12-IN OFFSET	2 - 8-IN X 12-IN OFFSET
	4 - 8-IN X 18-IN OFFSET
2 - 8-IN X 12-IN OFFSET	6 - 6-IN MJ CAP
5 - 6-IN MJ CAP	6 - 8-IN MJ PLUG
2 - 8-IN MJ PLUG	
3 - 5-IN HYDRANT	6 - 5-IN HYDRANT
40-FT - 2-IN STYROFOAM INSULATION	136-FT - 2-IN STYROFOAM INSULATION
COPPER SERVICE TUBING & COUPLINGS (AS REQ'D)	COPPER SERVICE TUBING & COUPLINGS (AS REQ'D)
HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQ'D)	HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQ'D)

**ESTIMATE OF MATERIALS SUPPLIED BY CITY:**

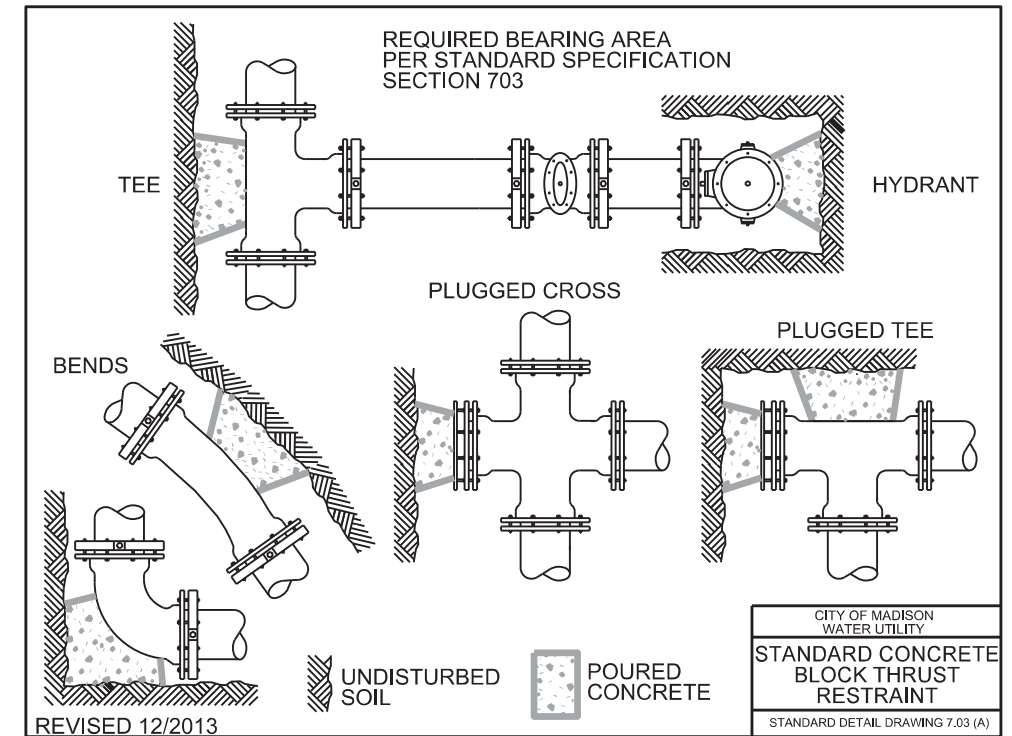
*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

1 - 6-IN TAPPING VALVE	2 - 6-IN TAPPING VALVE
1 - 6-IN X 6-IN TAPPING SLEEVE	2 - 6-IN X 6-IN TAPPING SLEEVE
	1 - 8-IN TAPPING VALVE
	1 - 12-IN X 8-IN TAPPING SLEEVE

**ESTIMATE OF MATERIALS SALVAGED:**

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

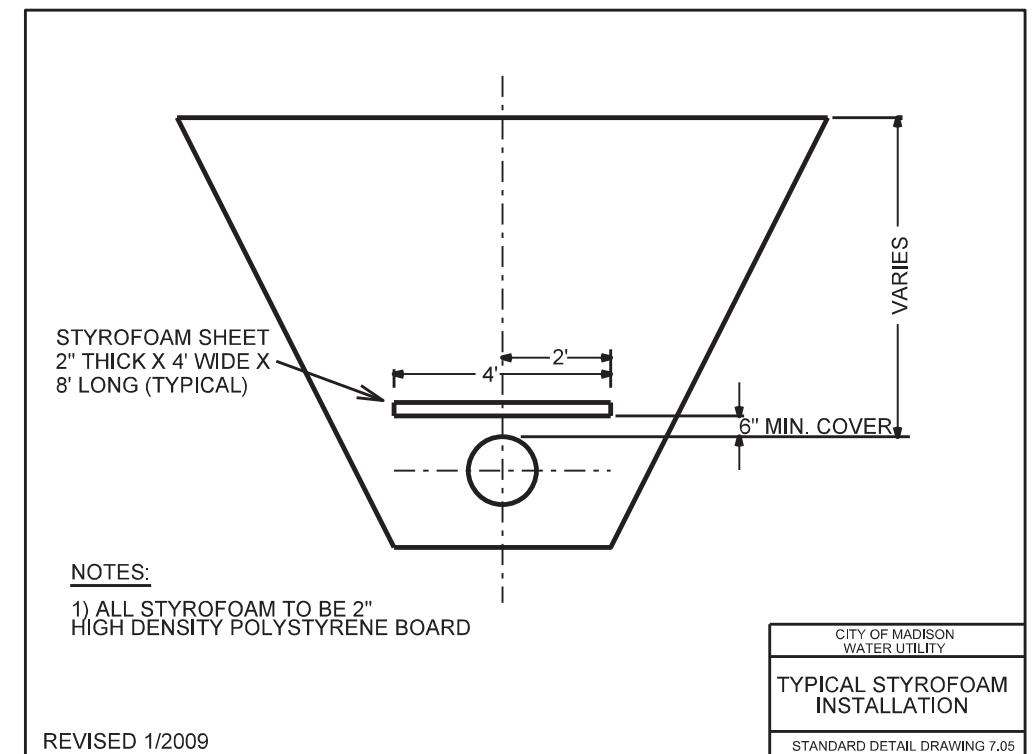
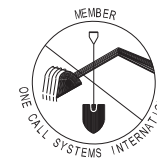
- 1 - 8-IN MJ PLUG



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.

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.



**NOTES:**

- 1) ALL STYROFOAM TO BE 2" HIGH DENSITY POLYSTYRENE BOARD

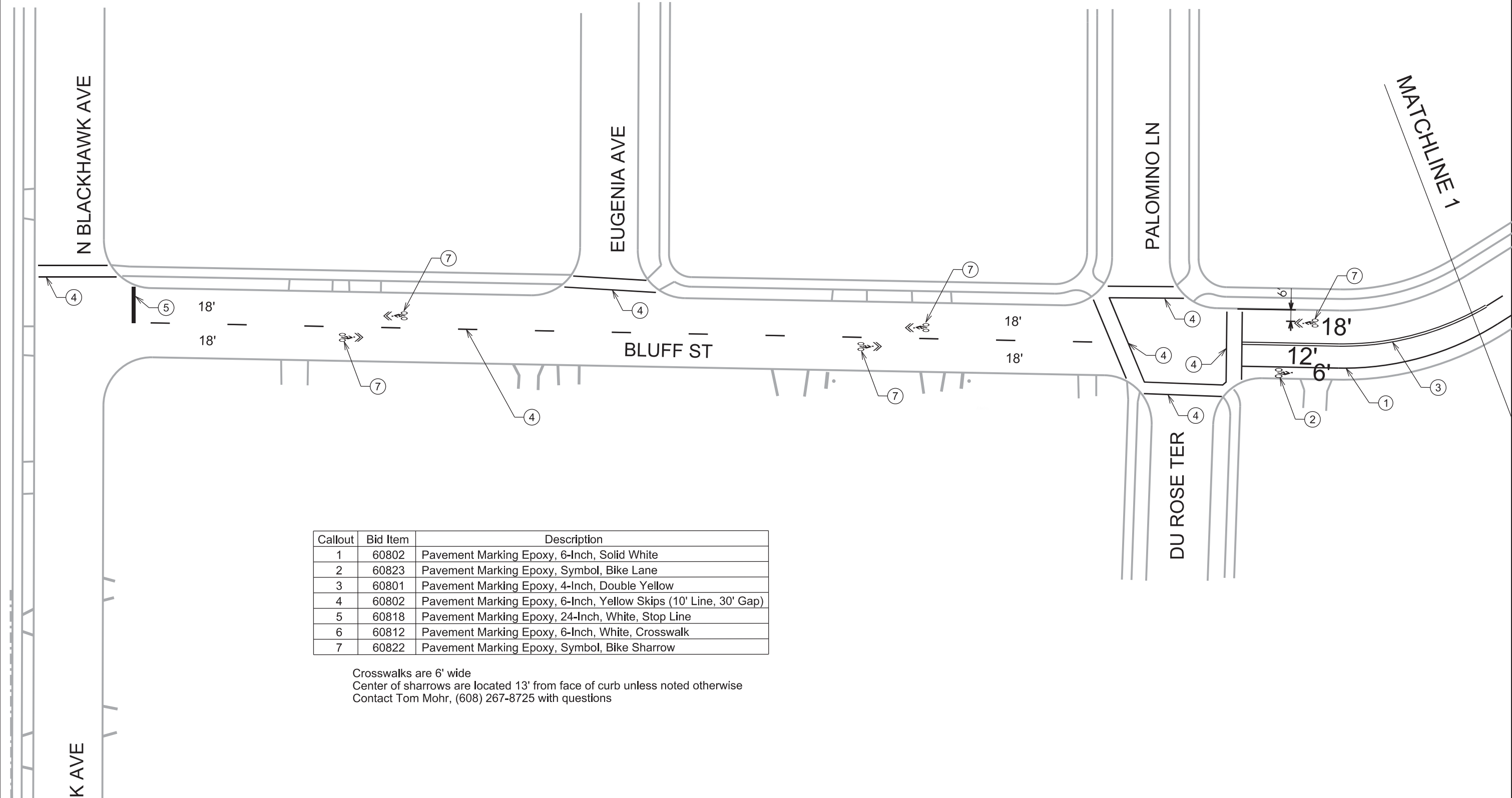
CITY OF MADISON  
WATER UTILITY  
**TYPICAL STYROFOAM INSTALLATION**  
STANDARD DETAIL DRAWING 7.05

REVISED 1/2009





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

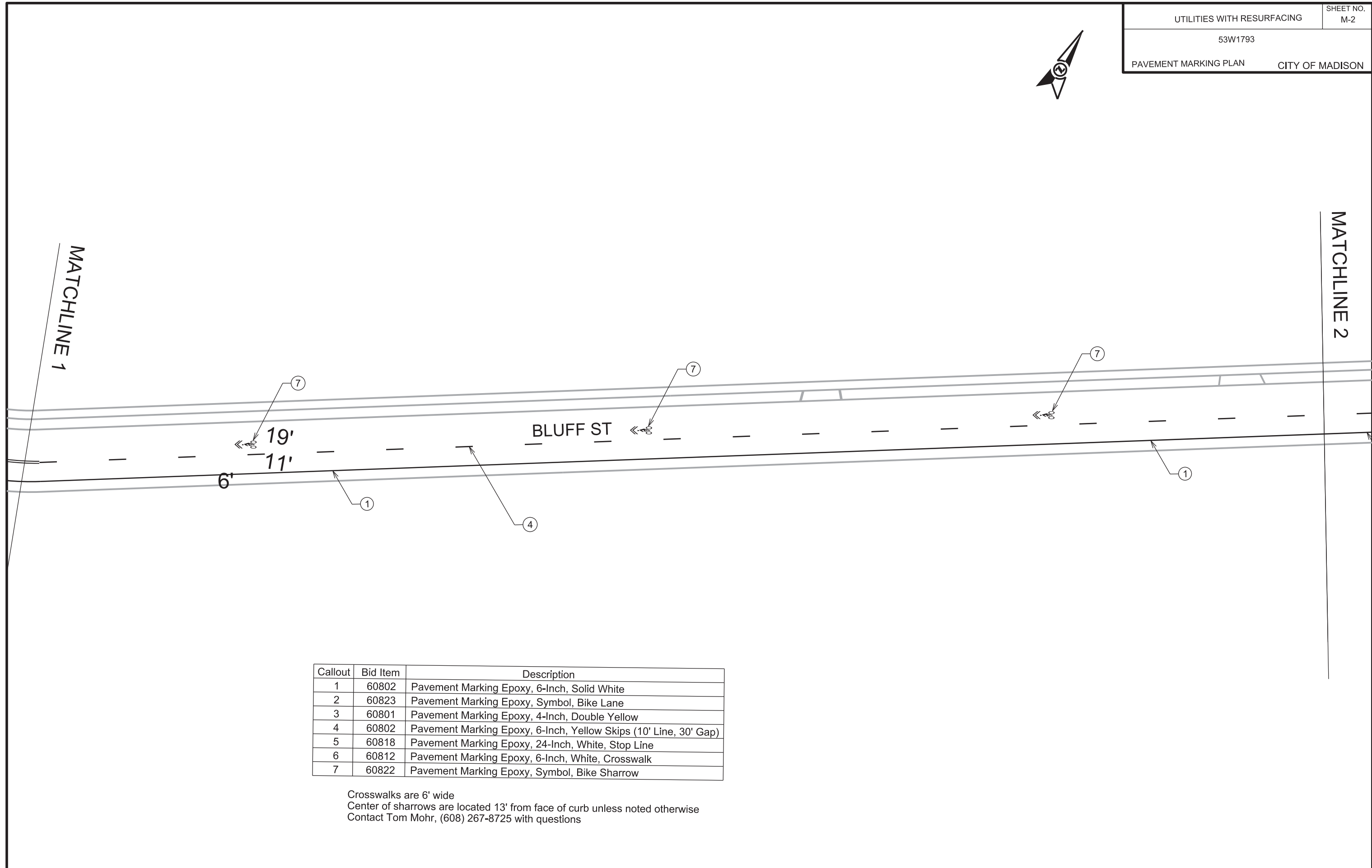


Callout	Bid Item	Description
1	60802	Pavement Marking Epoxy, 6-Inch, Solid White
2	60823	Pavement Marking Epoxy, Symbol, Bike Lane
3	60801	Pavement Marking Epoxy, 4-Inch, Double Yellow
4	60802	Pavement Marking Epoxy, 6-Inch, Yellow Skips (10' Line, 30' Gap)
5	60818	Pavement Marking Epoxy, 24-Inch, White, Stop Line
6	60812	Pavement Marking Epoxy, 6-Inch, White, Crosswalk
7	60822	Pavement Marking Epoxy, Symbol, Bike Sharrow

Crosswalks are 6' wide  
 Center of sharrows are located 13' from face of curb unless noted otherwise  
 Contact Tom Mohr, (608) 267-8725 with questions



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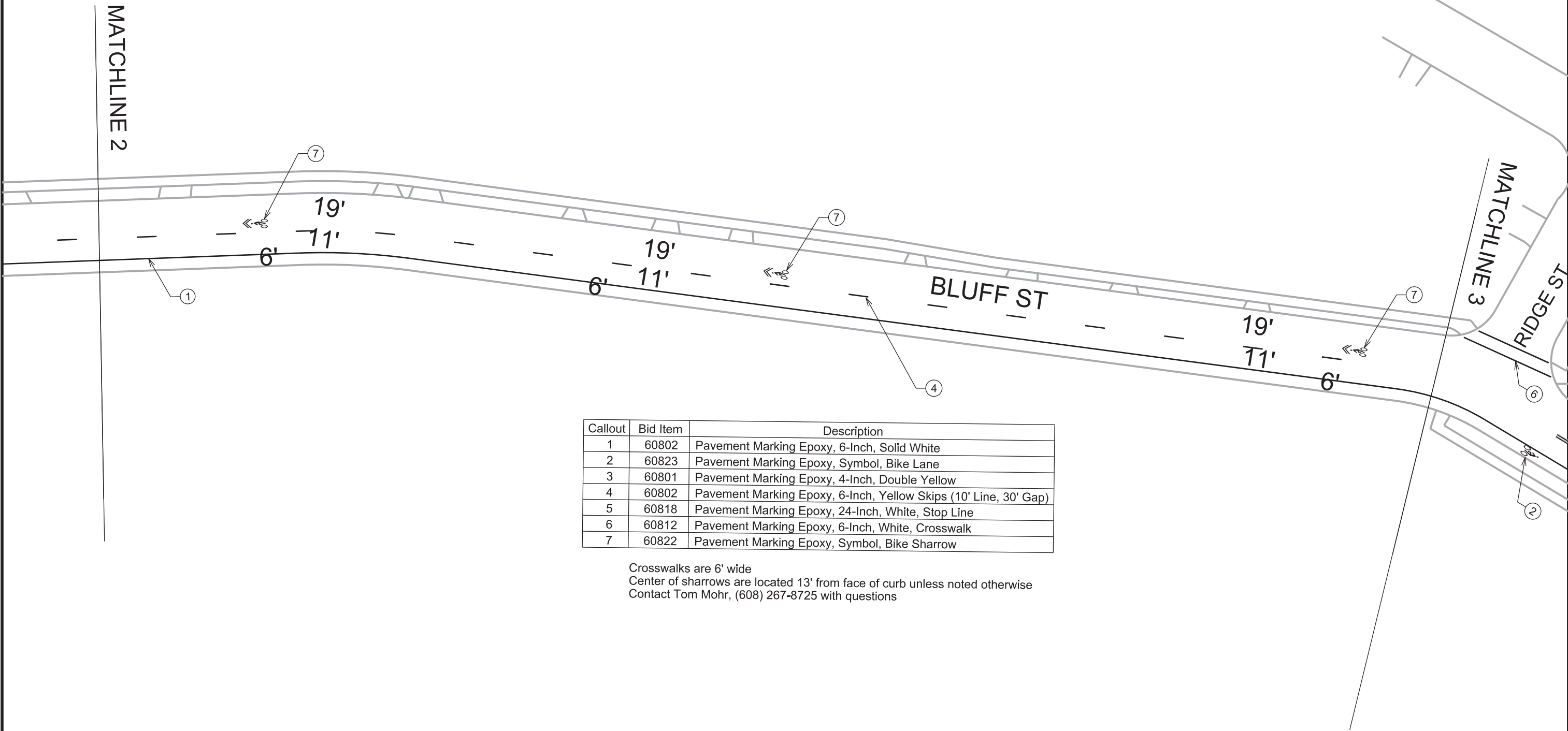


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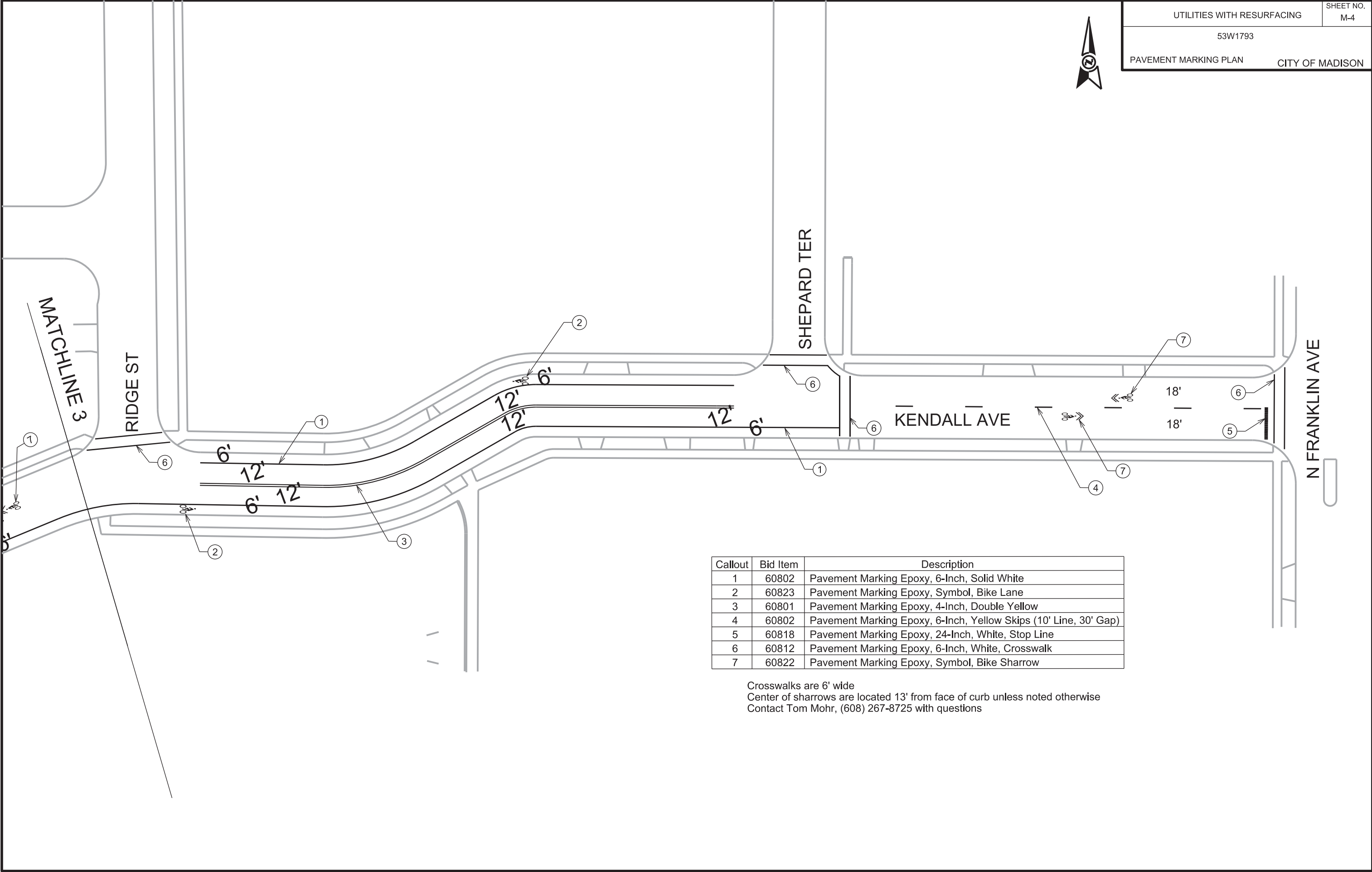


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