

Madison, Wisconsin

# CITY OF MADISON

CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

LARKIN STREET, GLENWAY STREET, HILLCREST DRIVE,  
ZWERG DRIVE & ROSS STREET RESURFACING  
WITH UTILITIES ASSESSMENT DISTRICT-2015

CITY PROJECT NO. 53W1845 MUNIS NO. 10255

CITY CONTRACT NO. 7435

PUBLIC IMPROVEMENT PROJECT  
APPROVED

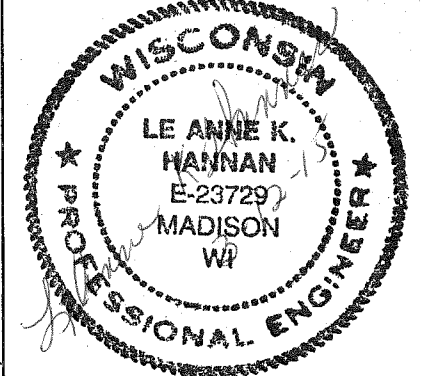
MARCH 3, 2015

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

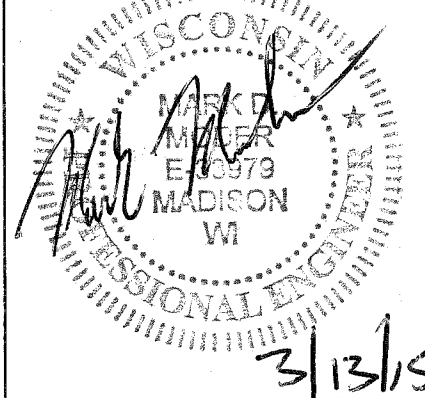
PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

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

STREET  
DESIGNED BY:

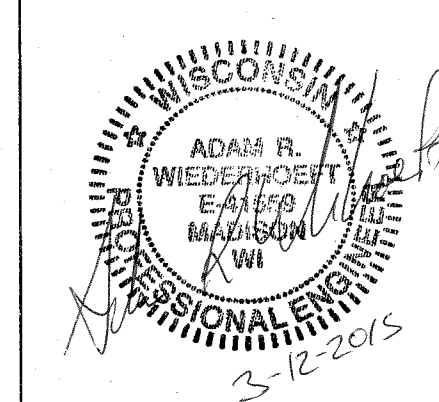


SANITARY SEWER  
DESIGNED BY:



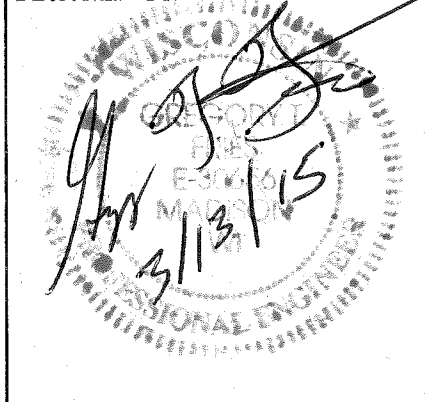
3/13/15

WATER  
DESIGNED BY:



3-12-2015

STORM SEWER  
DESIGNED BY:



INDEX OF SHEETS

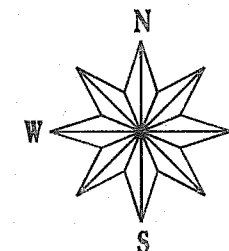
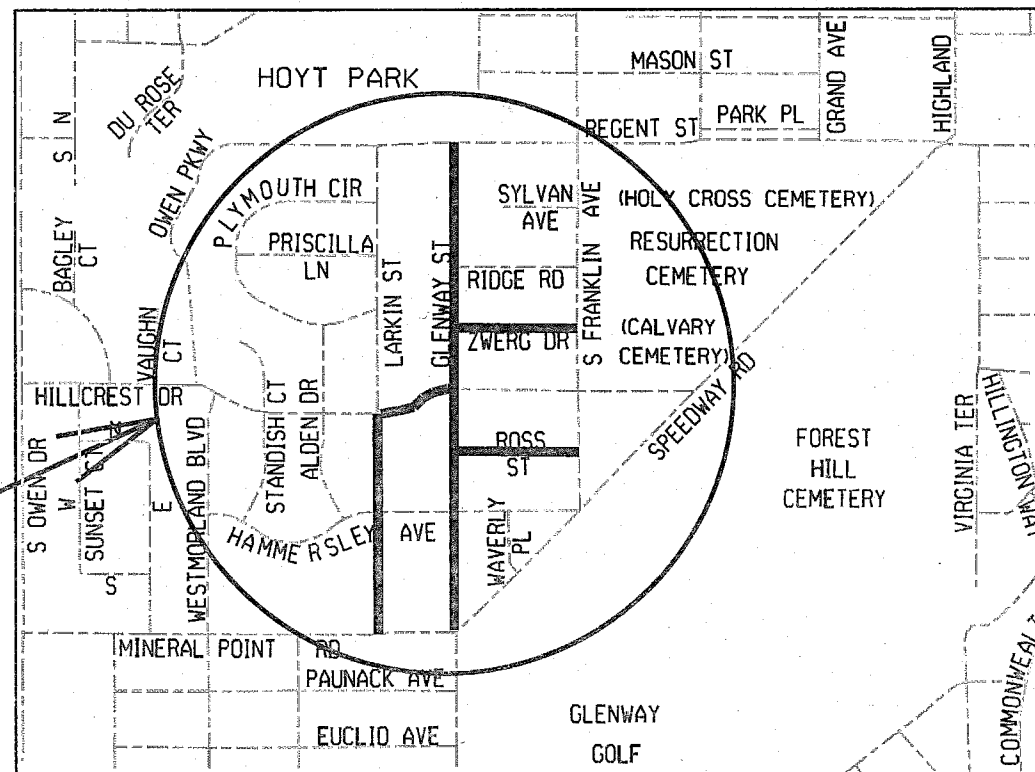
SHEET NO.	TITLE
1	DETAILS
EC1-EC15	EROSION CONTROL PLANS
PI-PI5	STREET PLAN & PROFILES
U1-U15	UTILITY PLAN & PROFILES
U16-U17	SANITARY SEWER SCHEDULES
U18	STORM SEWER SCHEDULES
W1-W12	WATER PLAN & PROFILES
W13-W16	WATER SYSTEM IMPACT PLAN
W17	WATERDETAILS DRAWINGS
W18	WATER ESTIMATE OF MATERIALS

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	φ
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	[Symbol]
COMBUSTIBLE FLUIDS	[Symbol]

### CONSTRUCTION PROJECT LOCATION



NOTES:

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

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

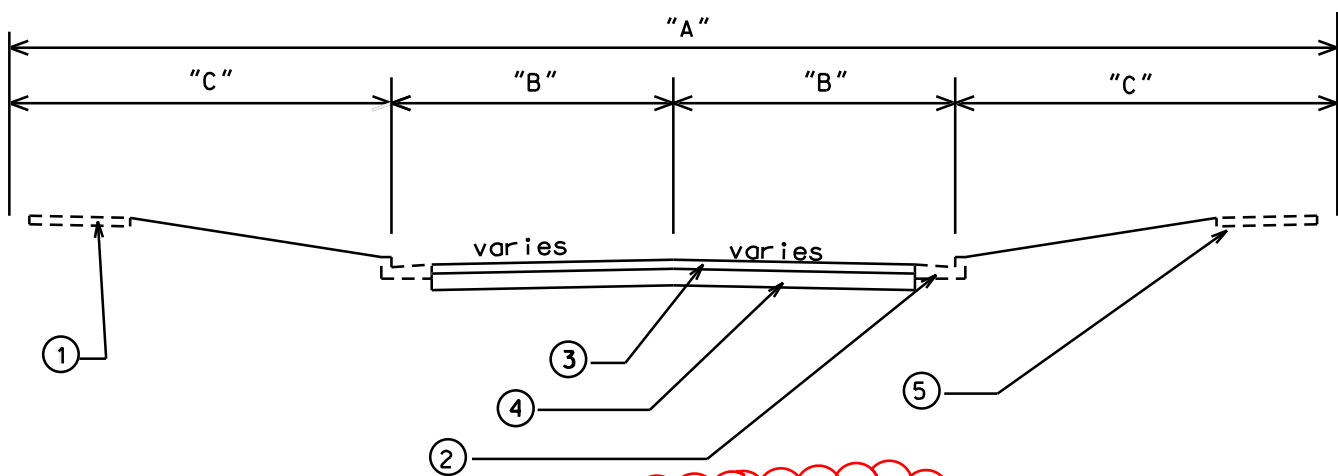
EARTH WORK SUMMARY:  
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 3919 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT.....1838 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT..... 5757 C.Y.  
PULVERIZE & SHAPE ..... 6966 S.Y.

PLOT SCALE:

PLOT NAME:

REV. DATE:

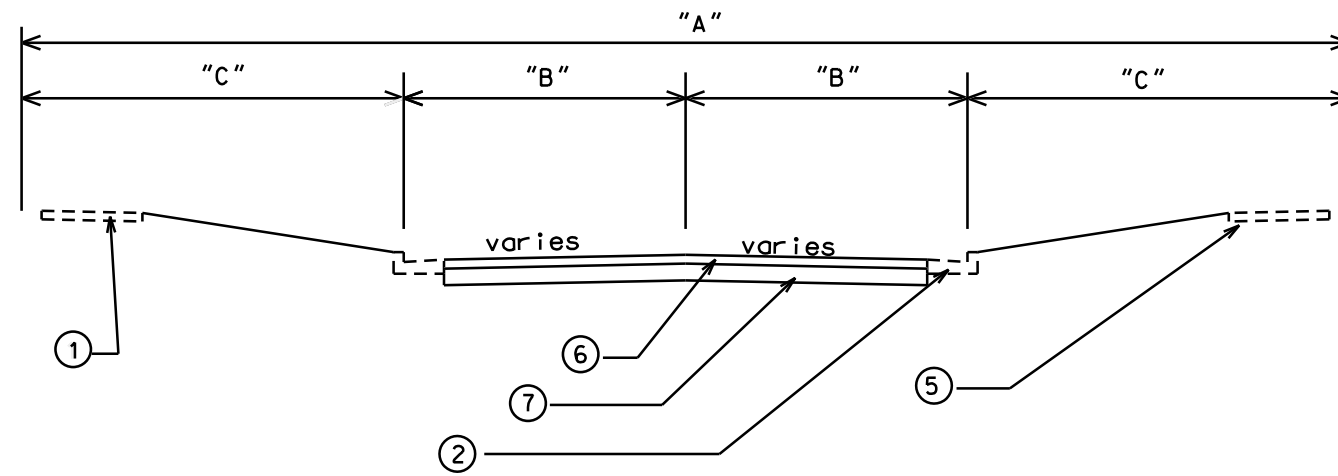
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



LARKIN STREET  
 GLENWAY STREET (STA 27+50- STA 37+25)  
 ZWEG DRIVE  
 ROSS STREET

- ① EX. 5" CONC. SW
- ② EX. CONC. CURB & GUTTER
- ③ 3-1/2" HMA PAV'T TYPE 0.3
- ④ 4" C.A.B.C.G.R. 2  
6" C.A.B.C.G.R. 1
- ⑤ 4" TOPSOIL, SEED & MATTING, AS NEEDED
- ⑥ PULVERIZE, SHAPE, PAVE 3 1/2" HMA PAV'T TYPE 0.3
- ⑦ EXISTING BASE COURSE

STREET	"A"	"B"	"C"
LARKIN STREET (MINERAL POINT - HAMMERSLEY)	60'	12'	12'
LARKIN STREET (HAMMERSLEY-HILLCREST)	60'	15'	15'
GLENWAY STREET (MINERAL POINT-HAMMERSLEY)	66'	18'	18'
GLENWAY STREET (HAMMERSLEY-REGENT)	58'-66'	18'-21'	15'-18'
HILLCREST DRIVE (LARKIN-GLENWAY)	66'	15'	15'
ZWEG DRIVE (GLENWAY-FRANKLIN)	54'	15'	11'
ROSS STREET (GLENWAY-FRANKLIN)	60'	15'	15'



GLENWAY ST (STA 10+00-STA 27+50)  
 HILLCREST DRIVE

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

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

EROSION CONTROL PLAN

GLENWAY ST CITY OF MADISON

**STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)**

**TYPE D HYBRID INLET PROTECTION**

**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.

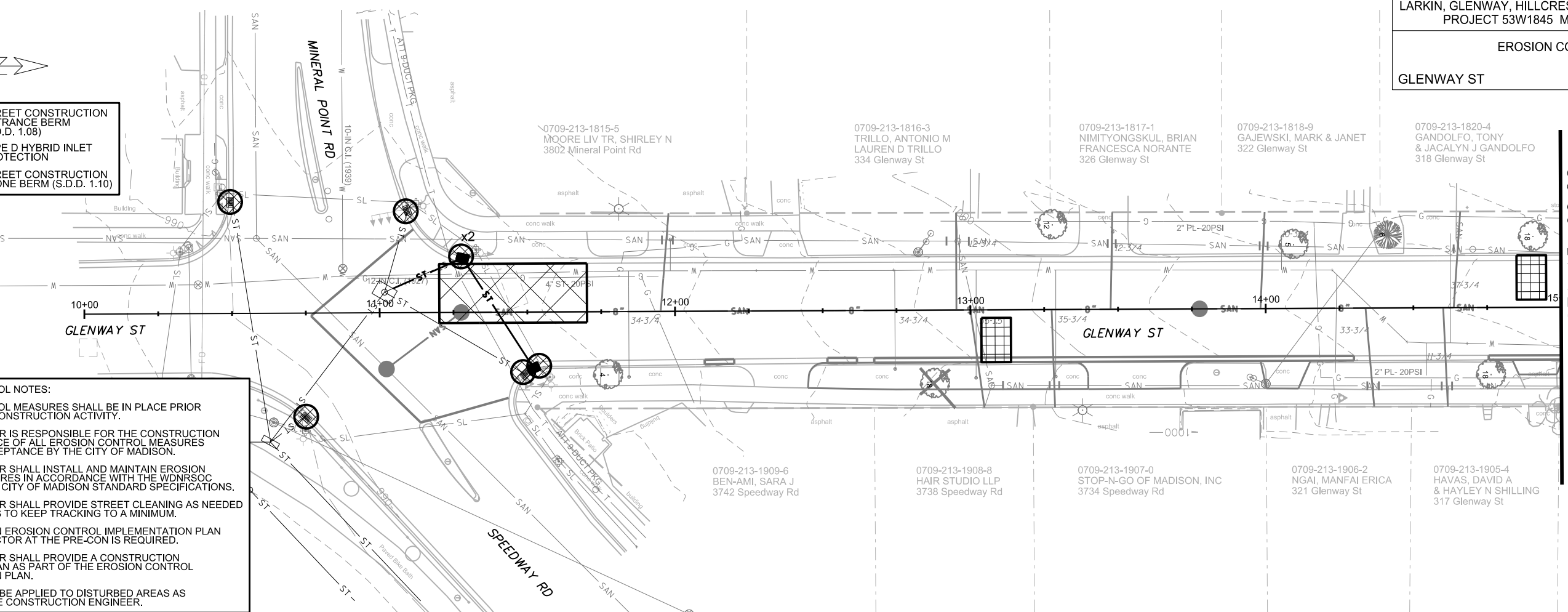
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PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

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.



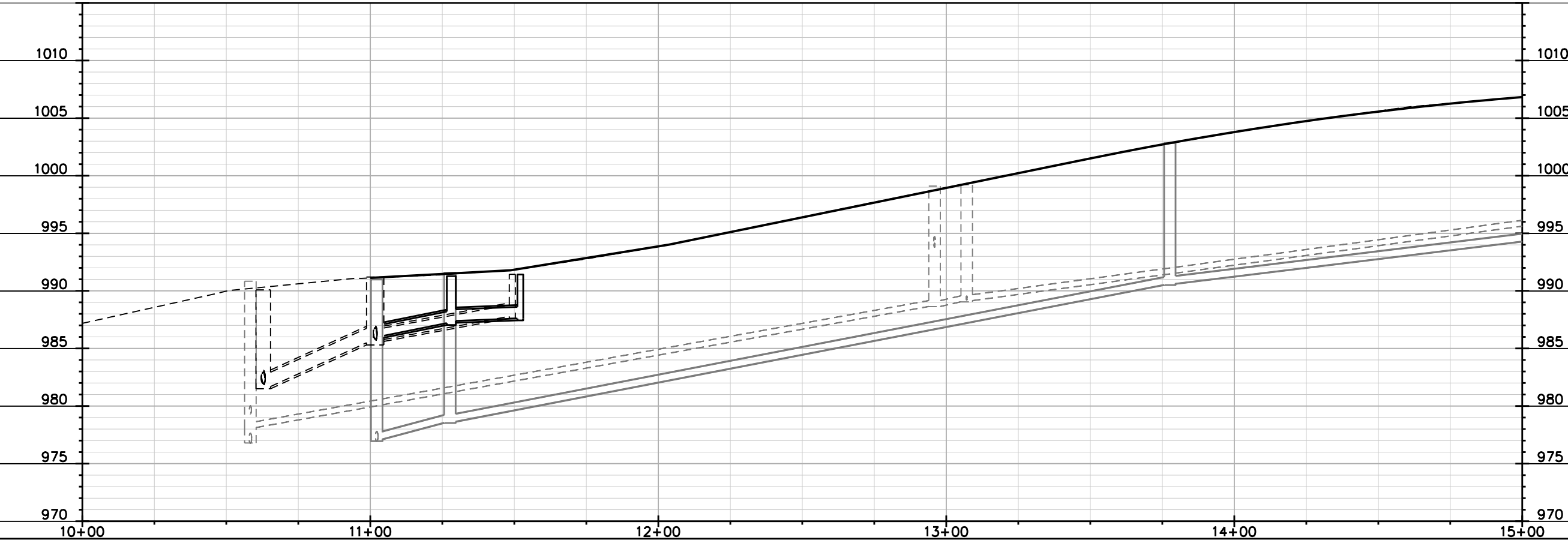
MATCHLINE STA 15+00.00

PLOT SCALE:

PLOT NAME:

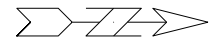
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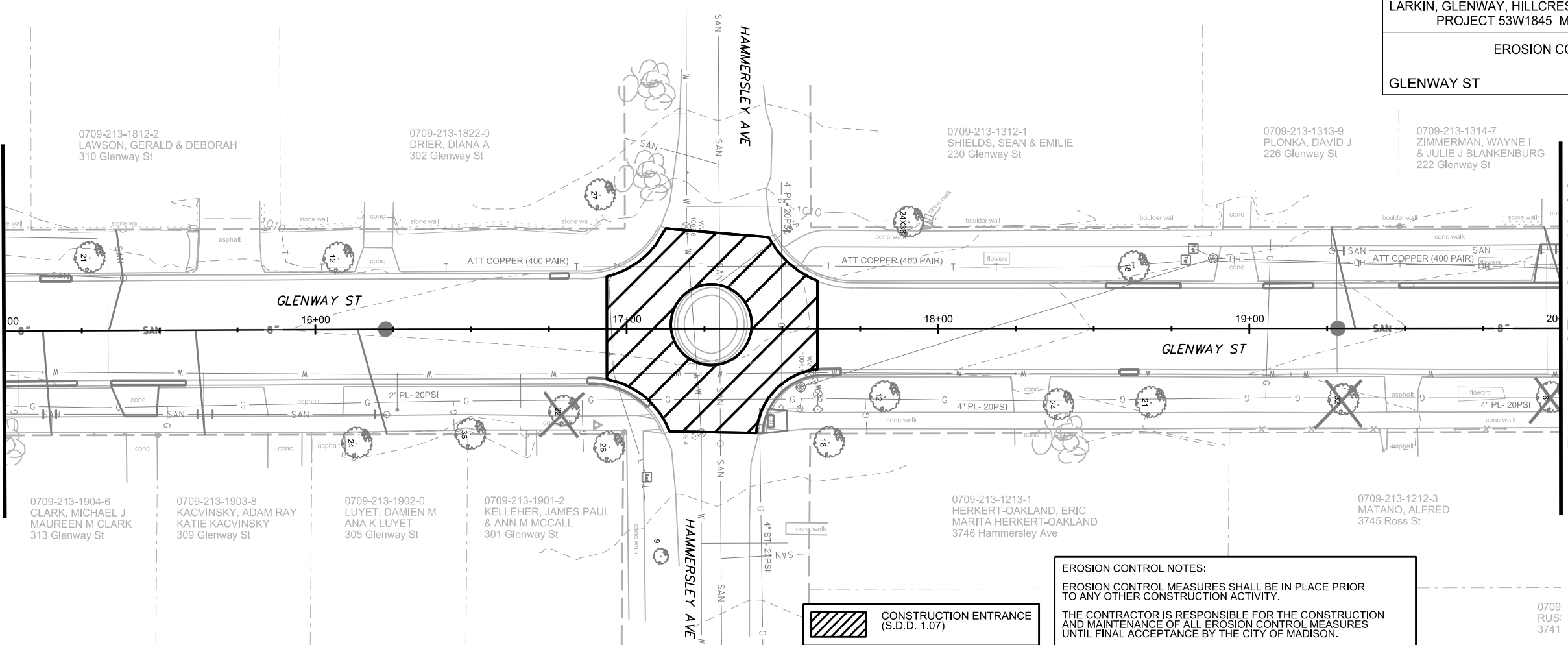
EROSION CONTROL PLAN

GLENWAY ST CITY OF MADISON



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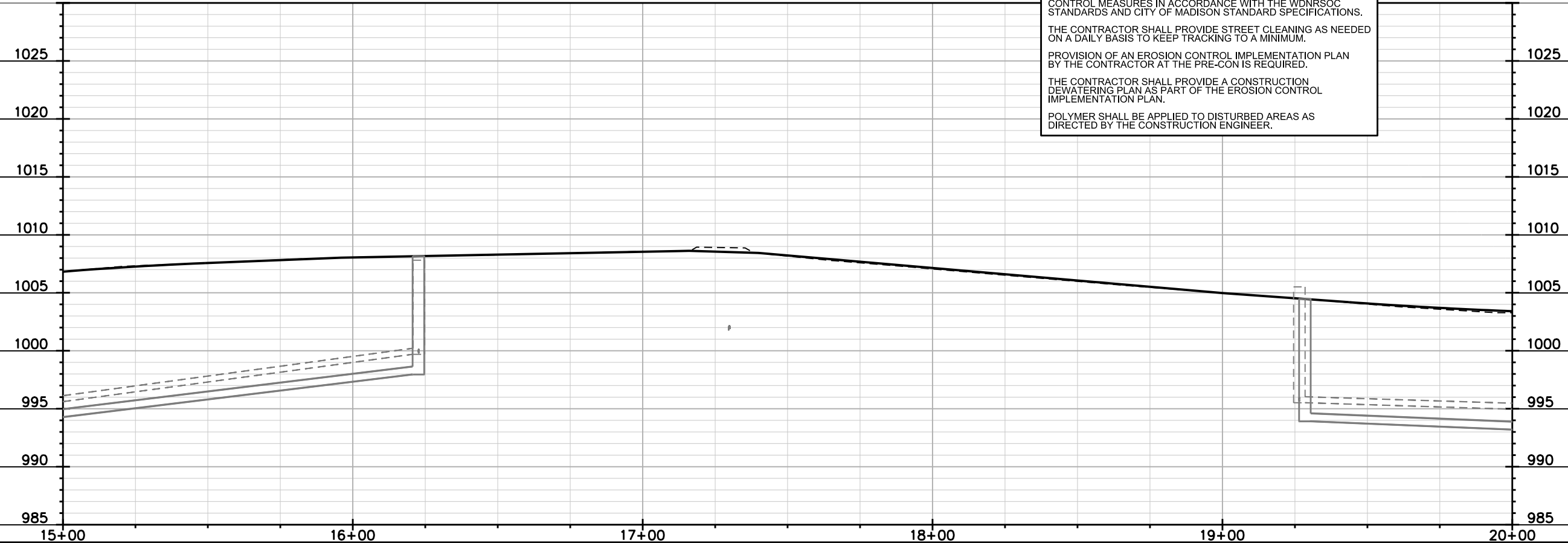
MATCHLINE STA 20+00.00



CONSTRUCTION ENTRANCE  
 (S.D.D. 1.07)

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0709  
 RUS:  
 3741



PLOT SCALE:

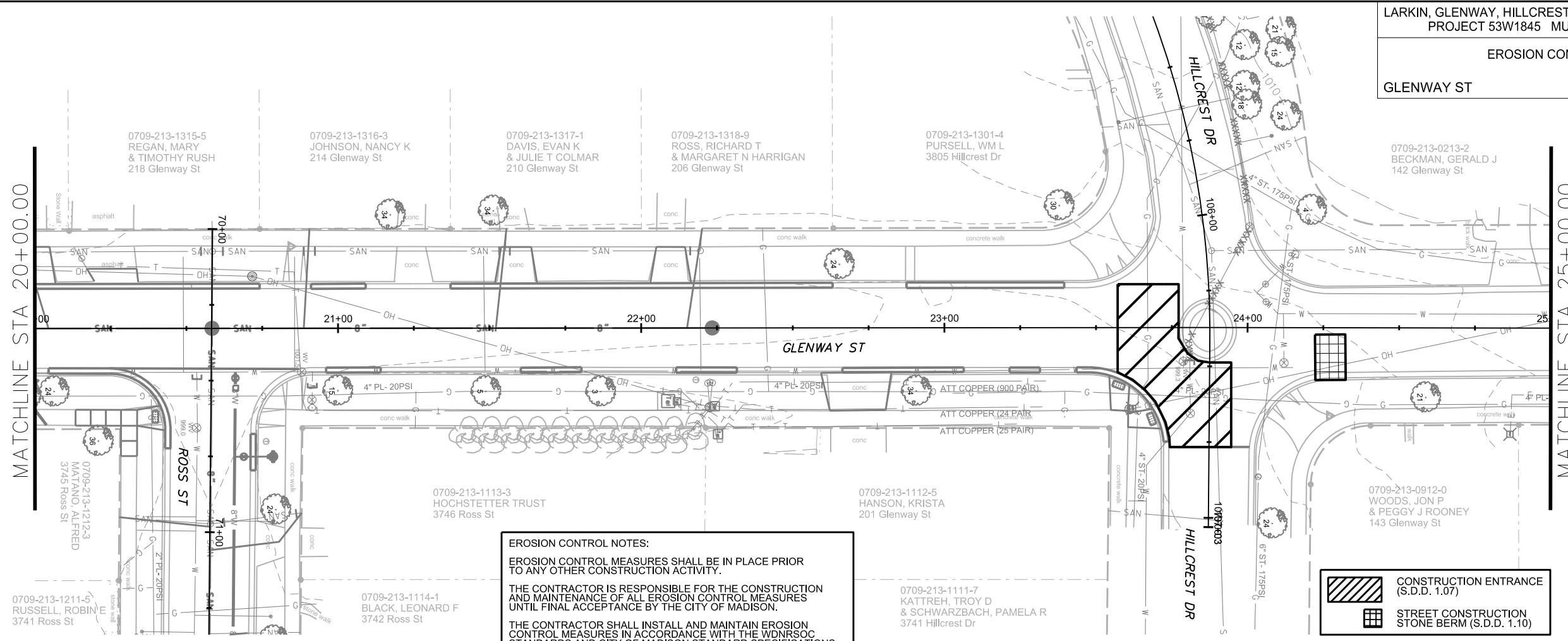
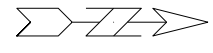
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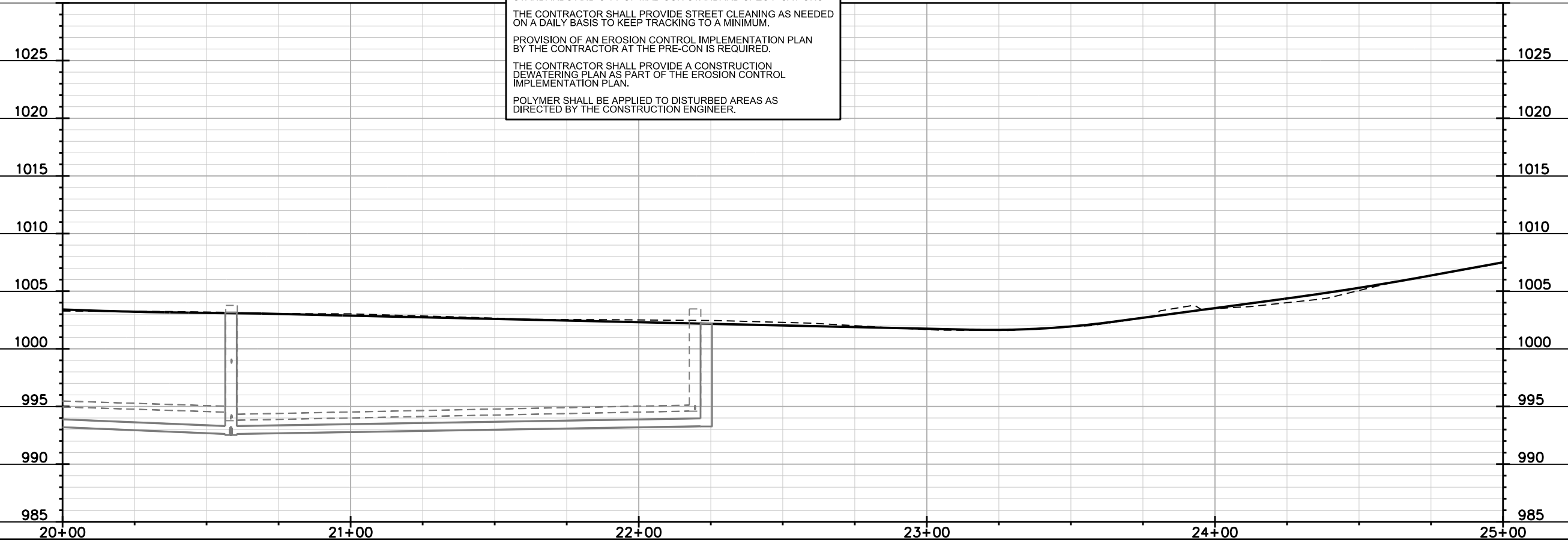
EROSION CONTROL PLAN

GLENWAY ST CITY OF MADISON



CONSTRUCTION ENTRANCE (S.D.D. 1.07)

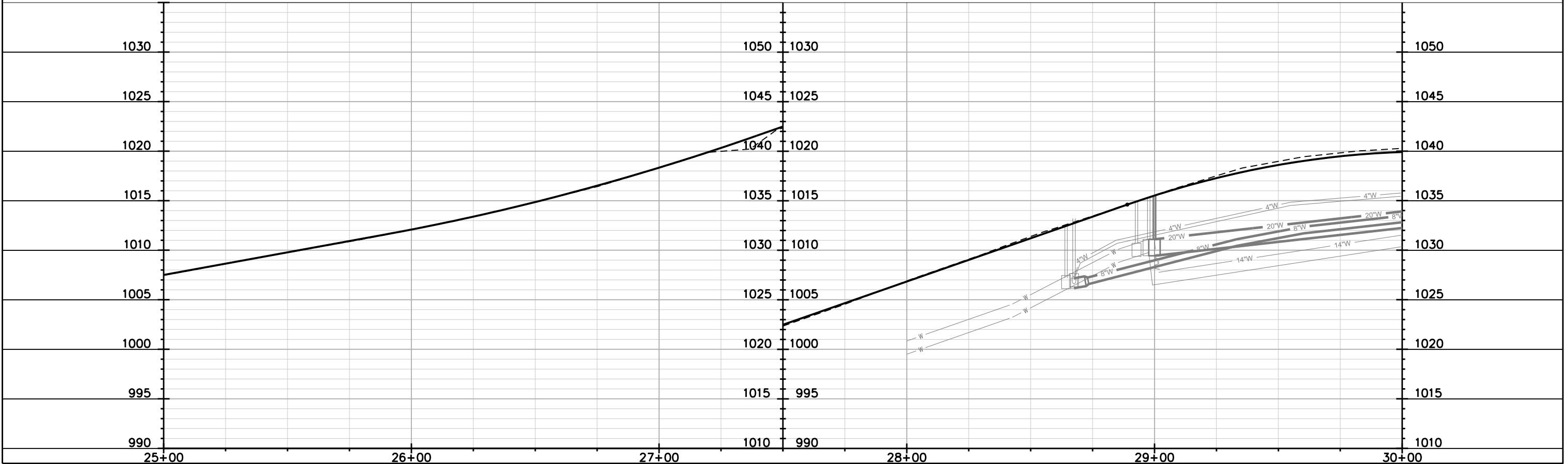
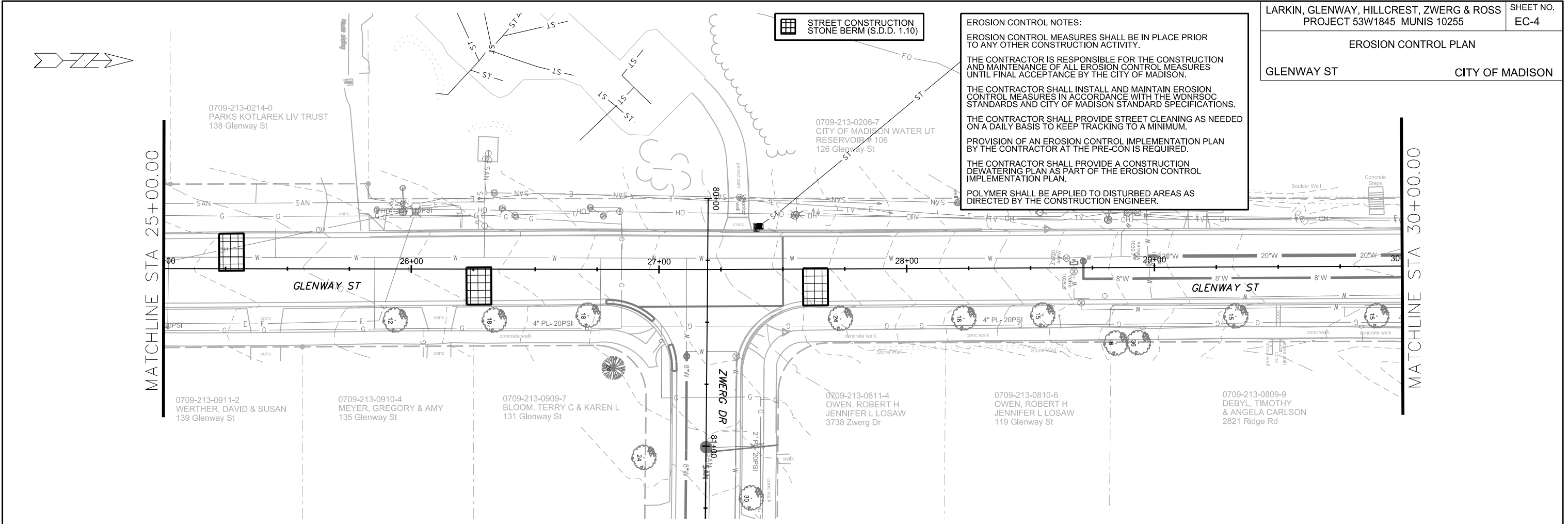
STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)



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 GLENWAY ST CITY OF MADISON

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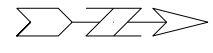
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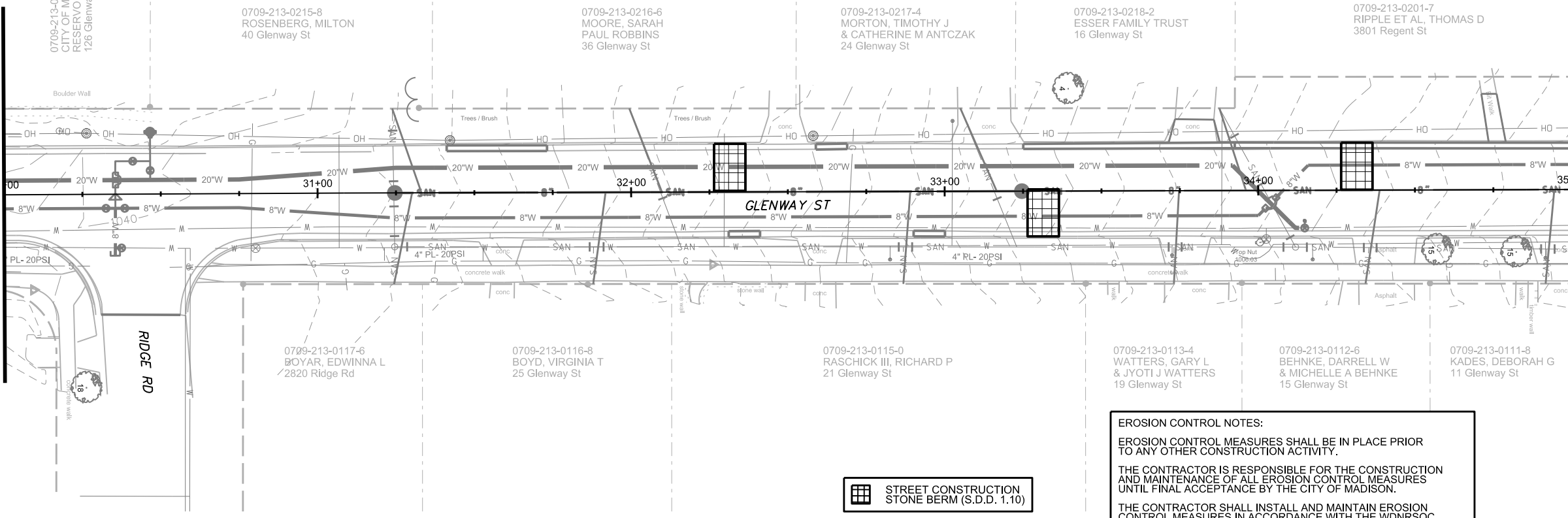
EROSION CONTROL PLAN

GLENWAY ST CITY OF MADISON



MATCHLINE STA 30+00.00

MATCHLINE STA 35+00.00



PLOT SCALE:

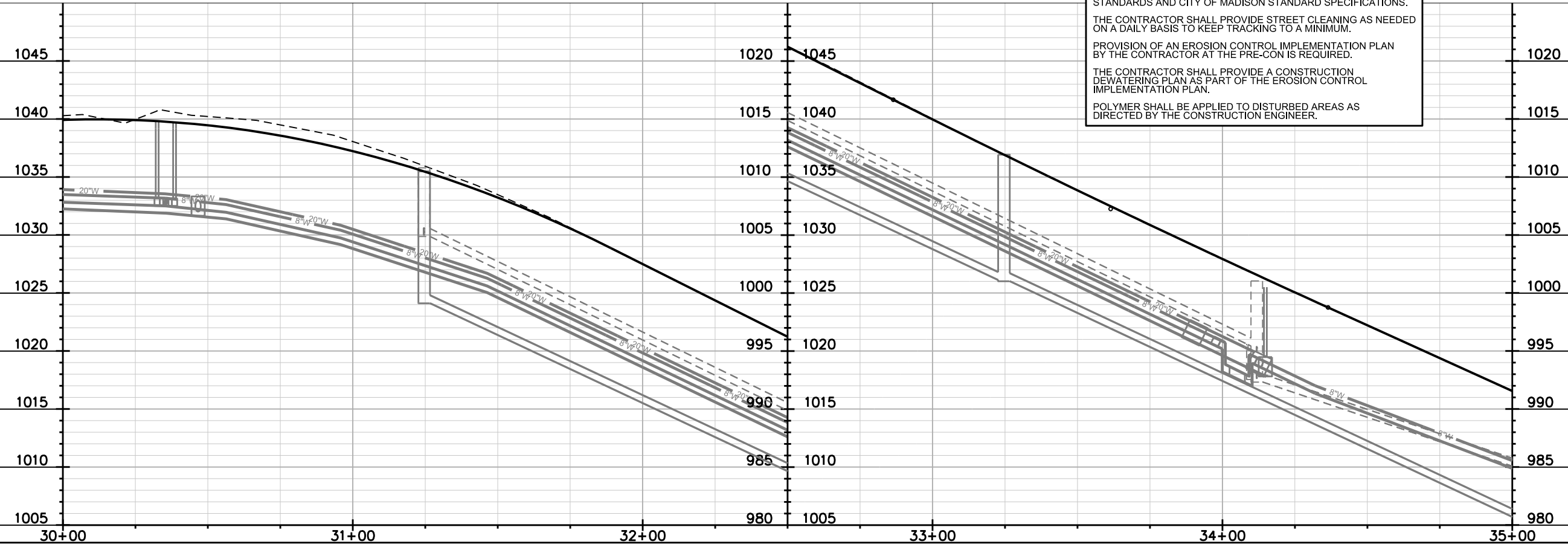
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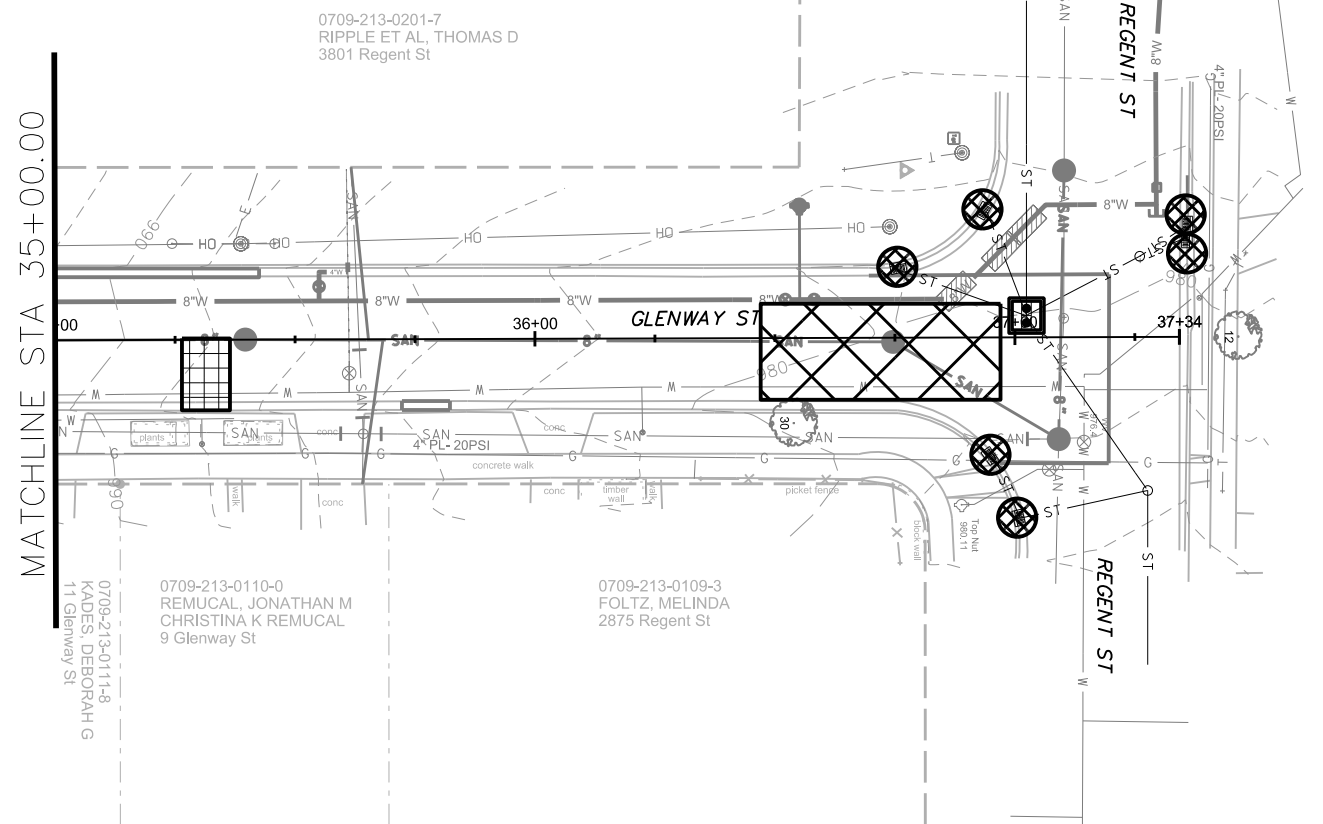
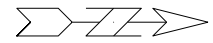
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EROSION CONTROL PLAN

GLENWAY ST CITY OF MADISON



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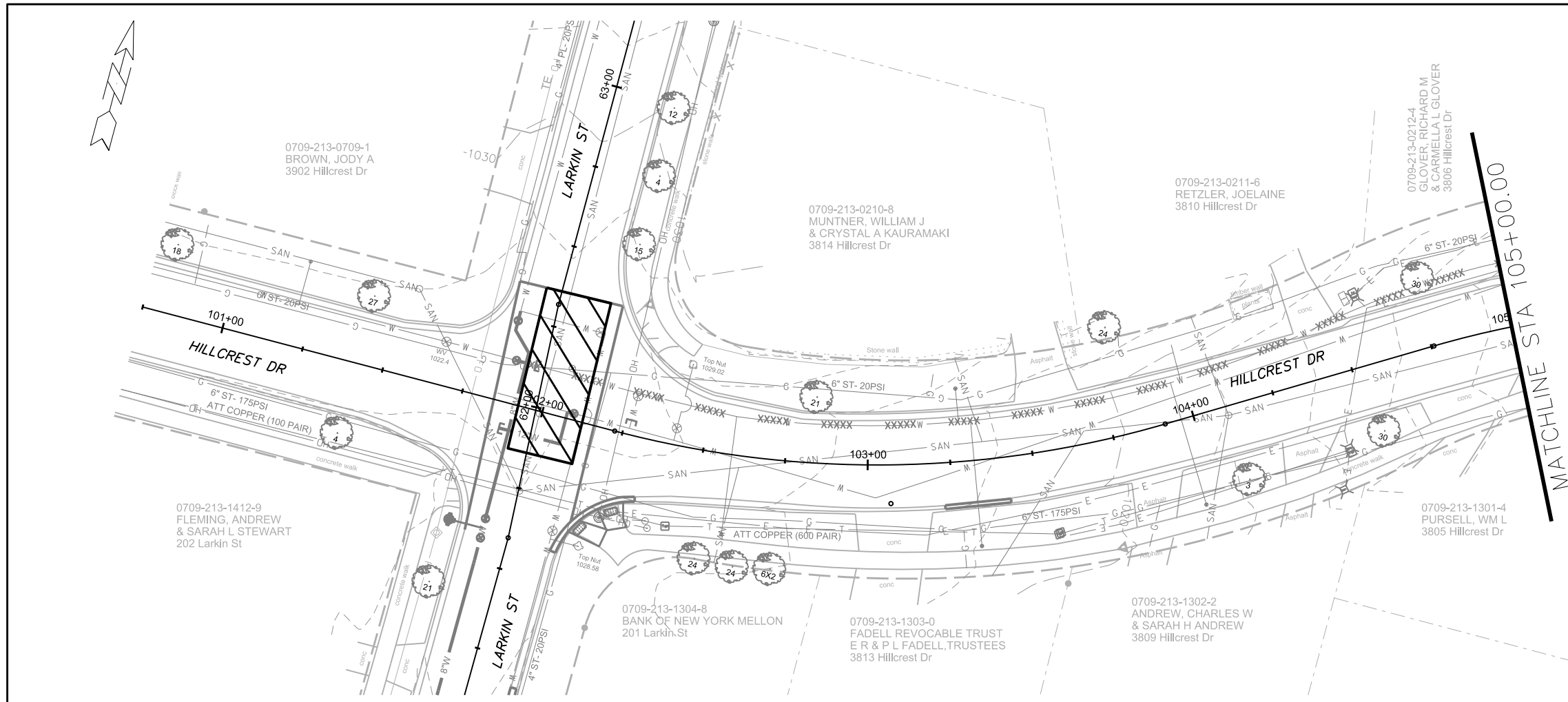


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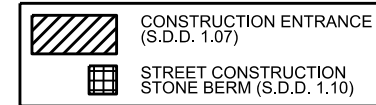
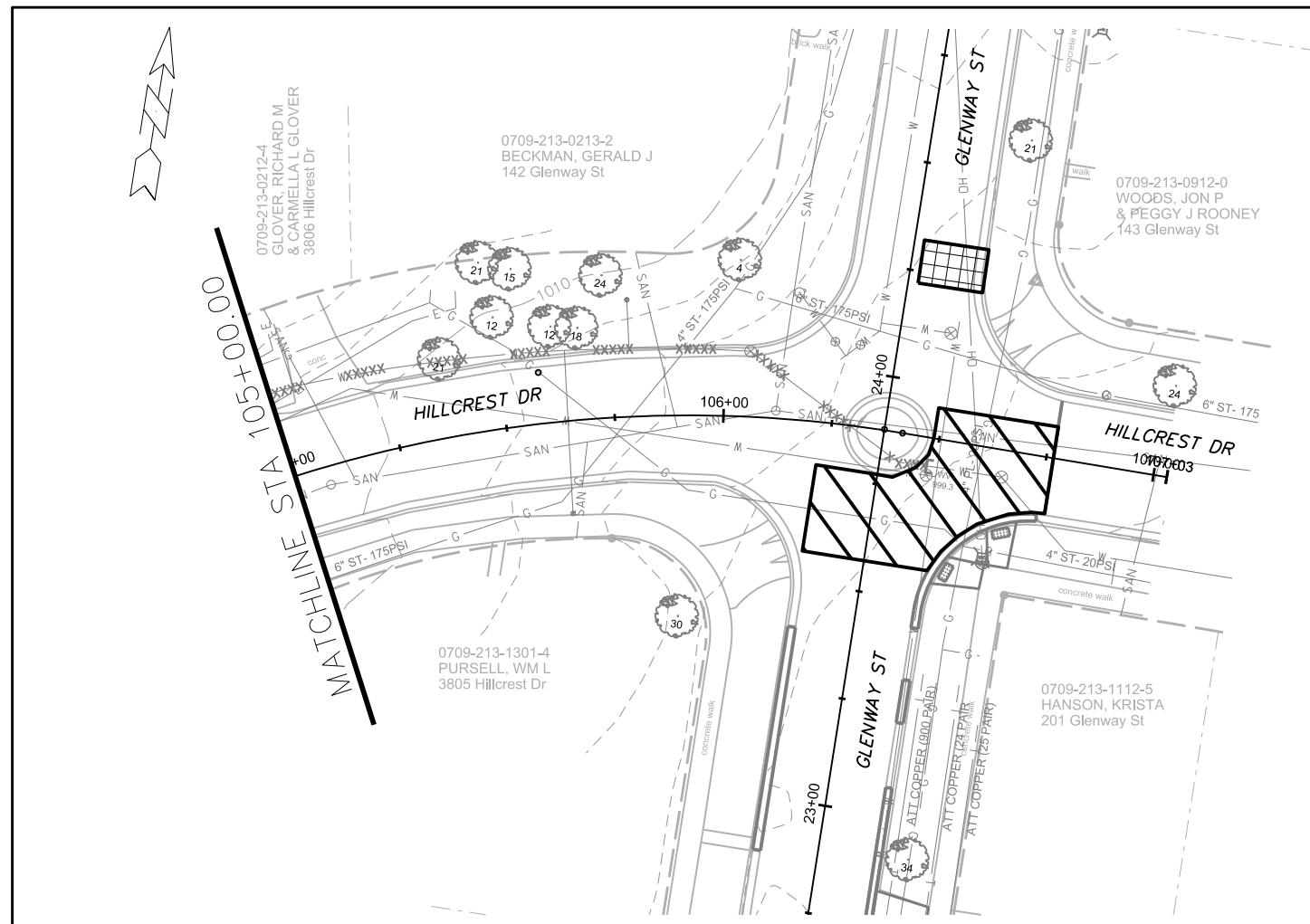
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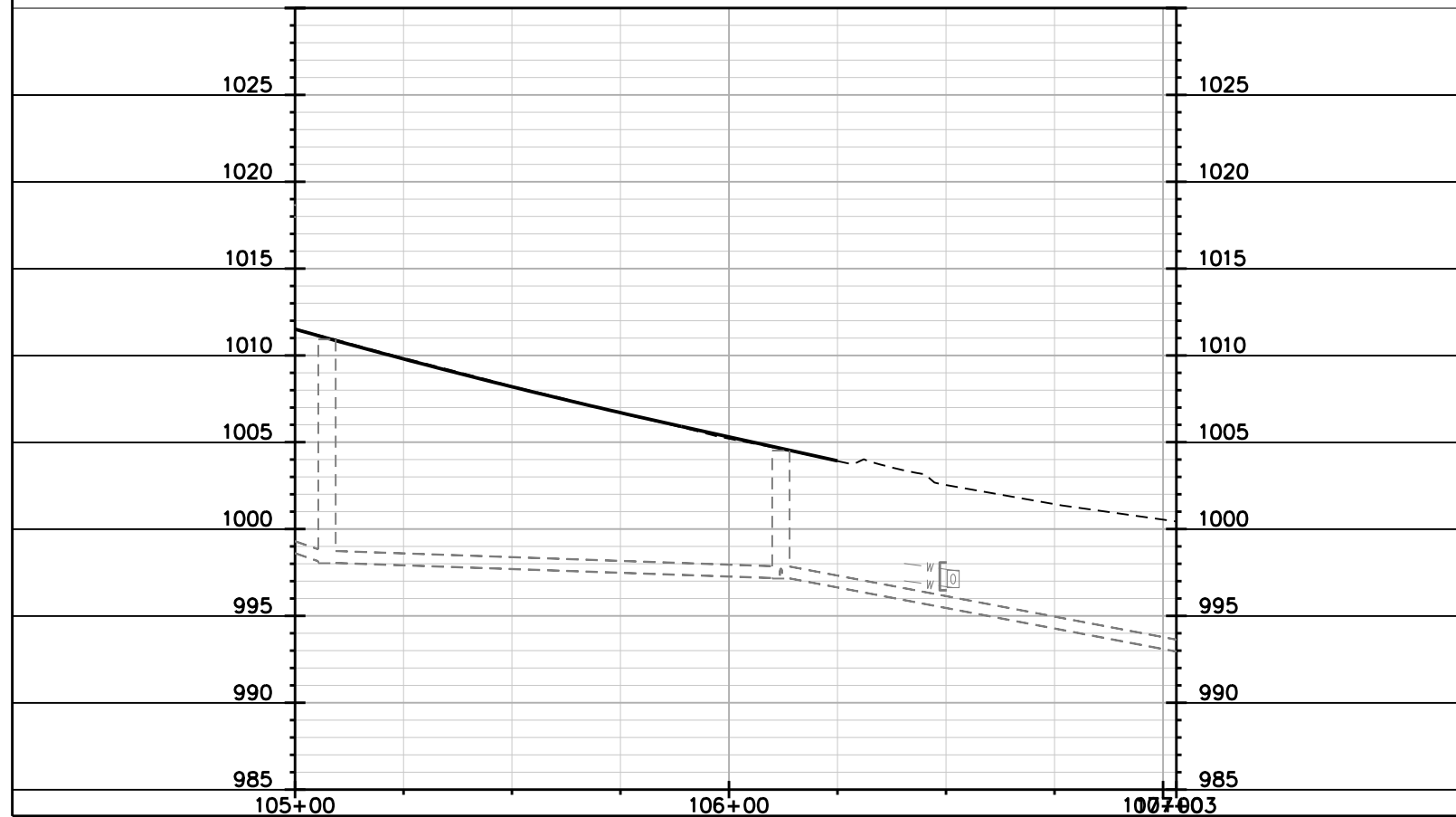
EROSION CONTROL PLAN

HILLCREST DR

CITY OF MADISON



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EROSION CONTROL PLAN

LARKIN ST

CITY OF MADISON

	STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
	STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

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0709-213-1723-0  
 BETHANY METHODIST CHURCH  
 % WALTER HOLTHAUS  
 3910 Mineral Point Rd

0709-213-1724-8  
 LOCHER LIVING TRUST  
 320 Larkin St

0709-213-1725-6  
 MACK, KELLY S  
 312 Larkin St

0709-213-1812-1  
 RT MANAGEMENT LLC  
 3822 Mineral Point Rd

0709-213-1810-5  
 MERRILL, ROBERT & DIANA  
 329 Larkin St

0709-213-1809-8  
 ENGEN JR, RICHARD I  
 & CORINNE R ENGEN  
 325 Larkin St

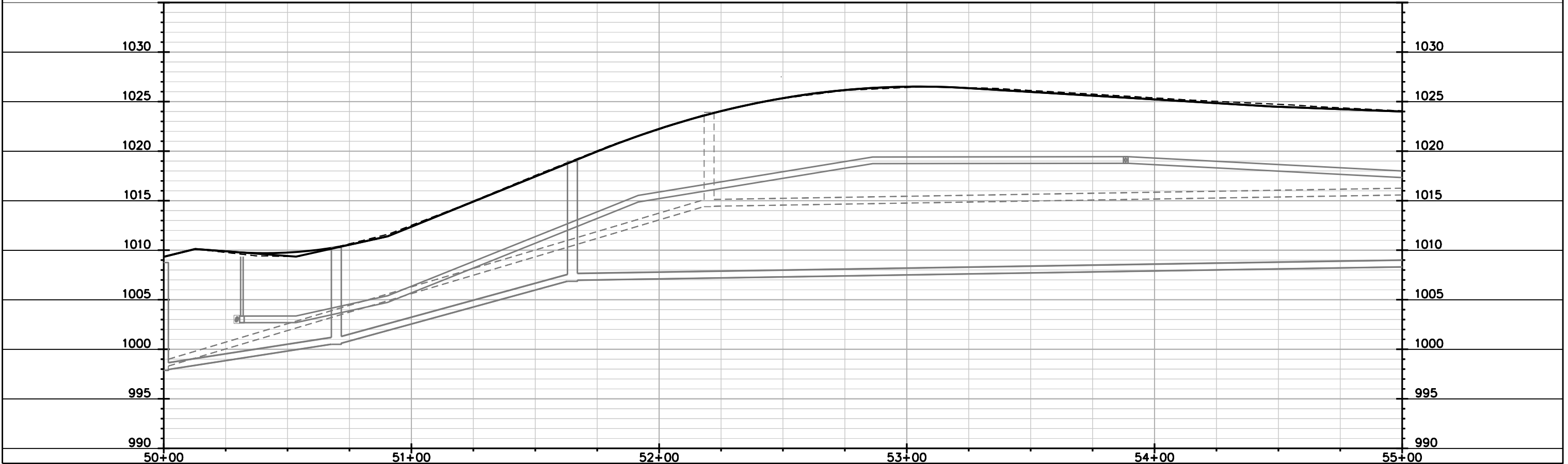
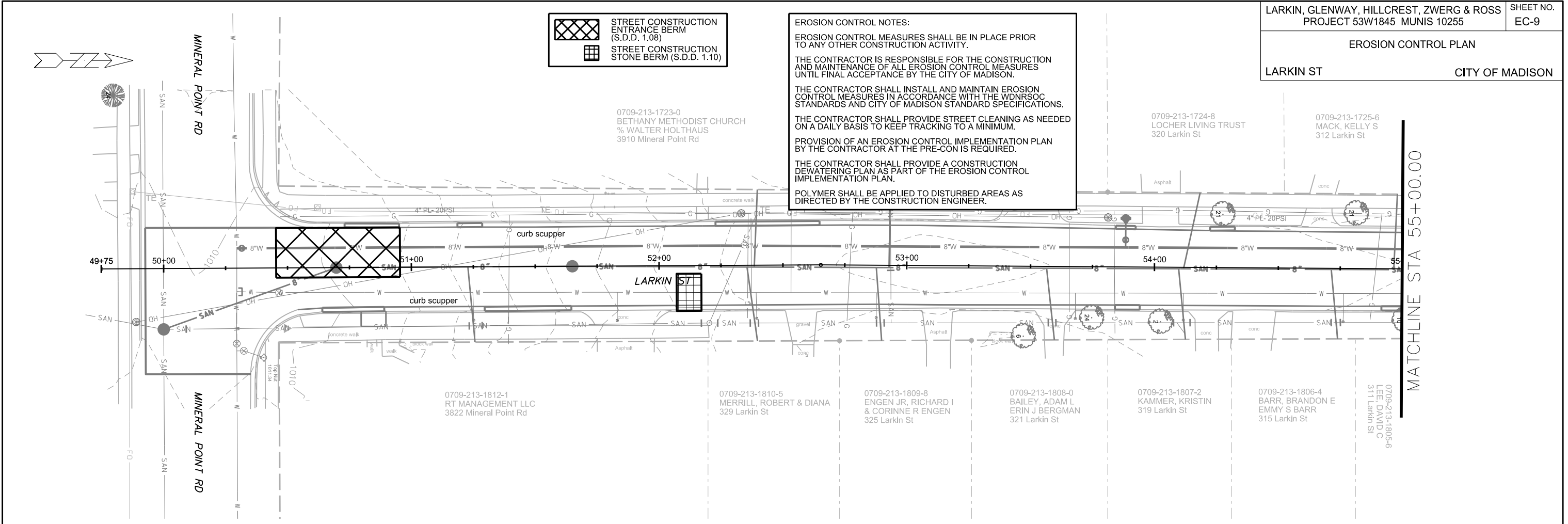
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 BAILEY, ADAM L  
 ERIN J BERGMAN  
 321 Larkin St

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 KAMMER, KRISTIN  
 319 Larkin St

0709-213-1806-4  
 BARR, BRANDON E  
 EMMY S BARR  
 315 Larkin St

0709-213-1805-6  
 LEE, DAVID C  
 311 Larkin St

MATCHLINE STA 55+00.00



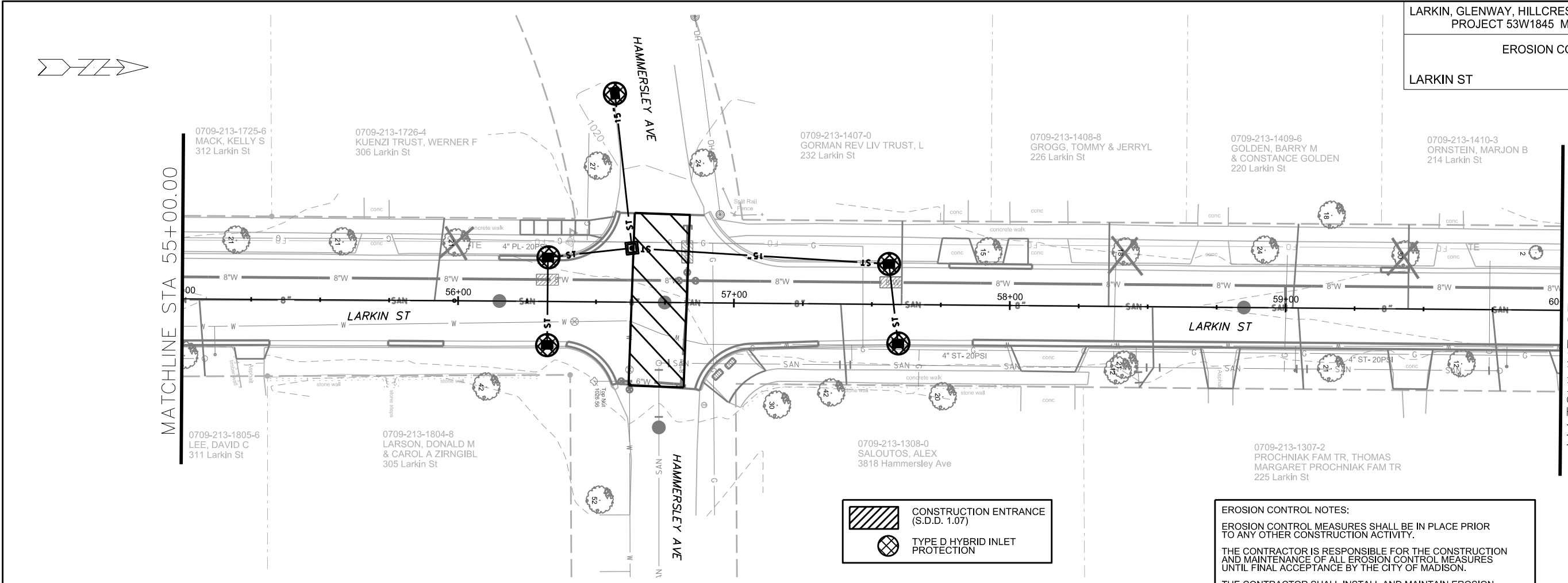
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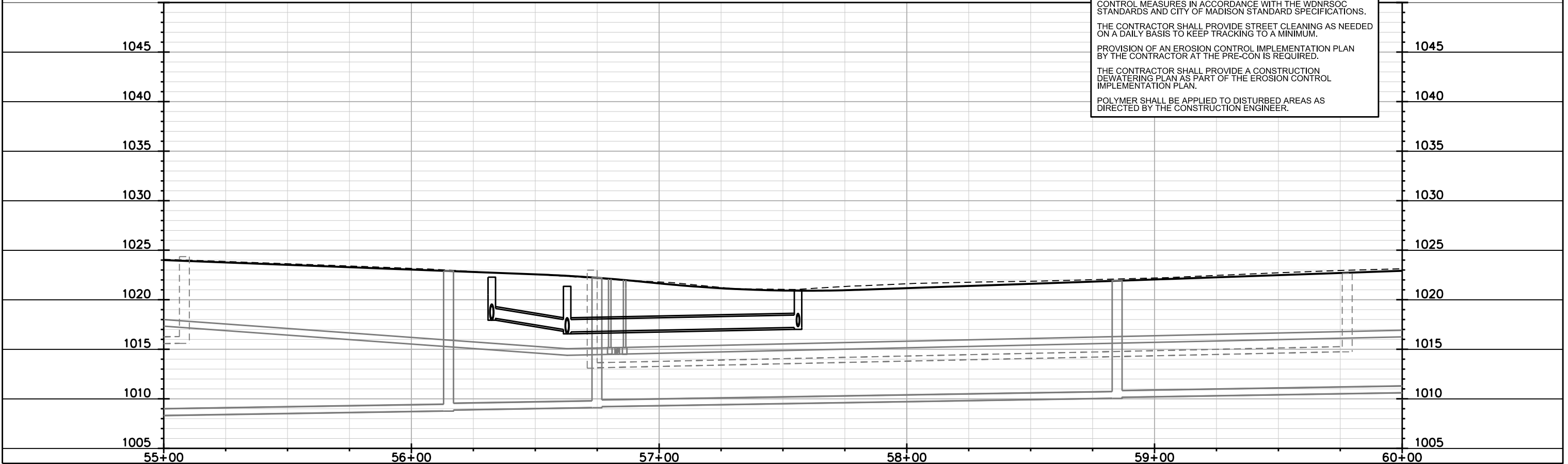
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EROSION CONTROL PLAN  
LARKIN ST CITY OF MADISON



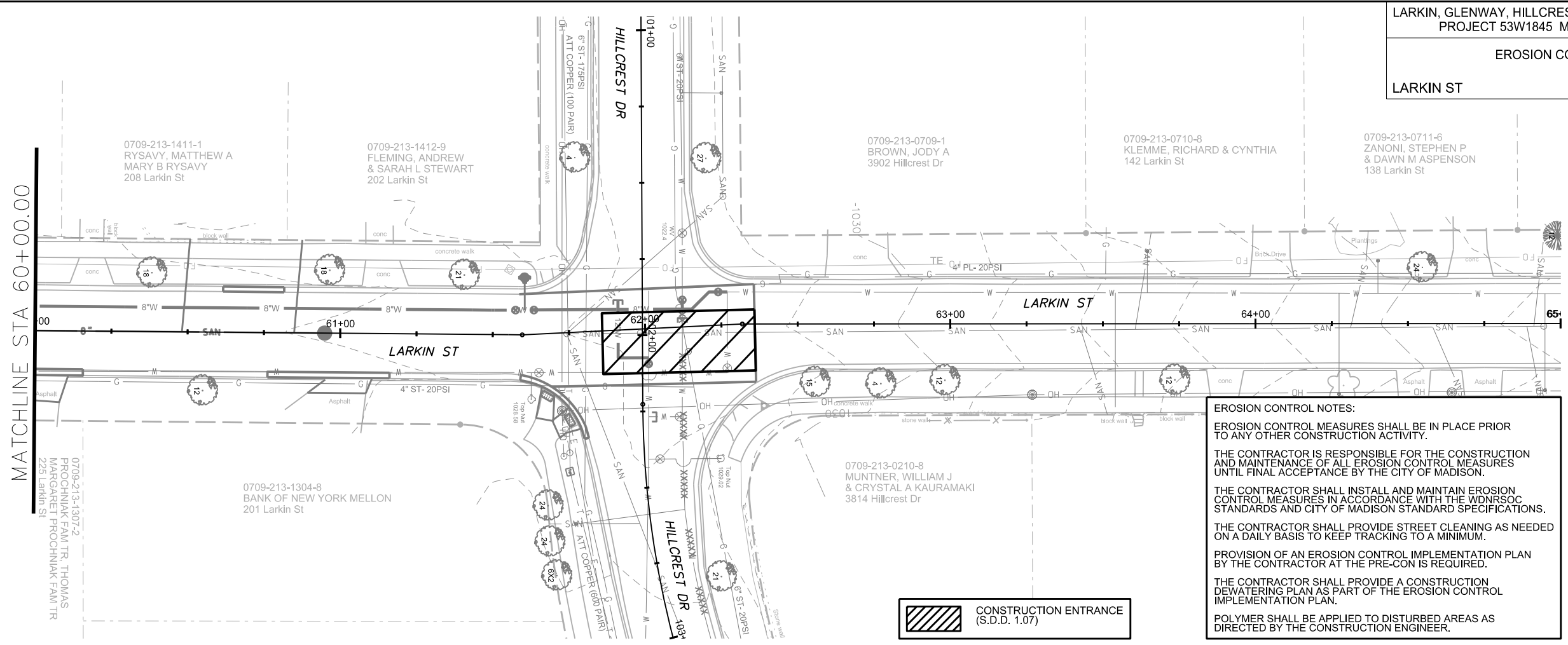
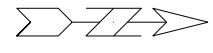
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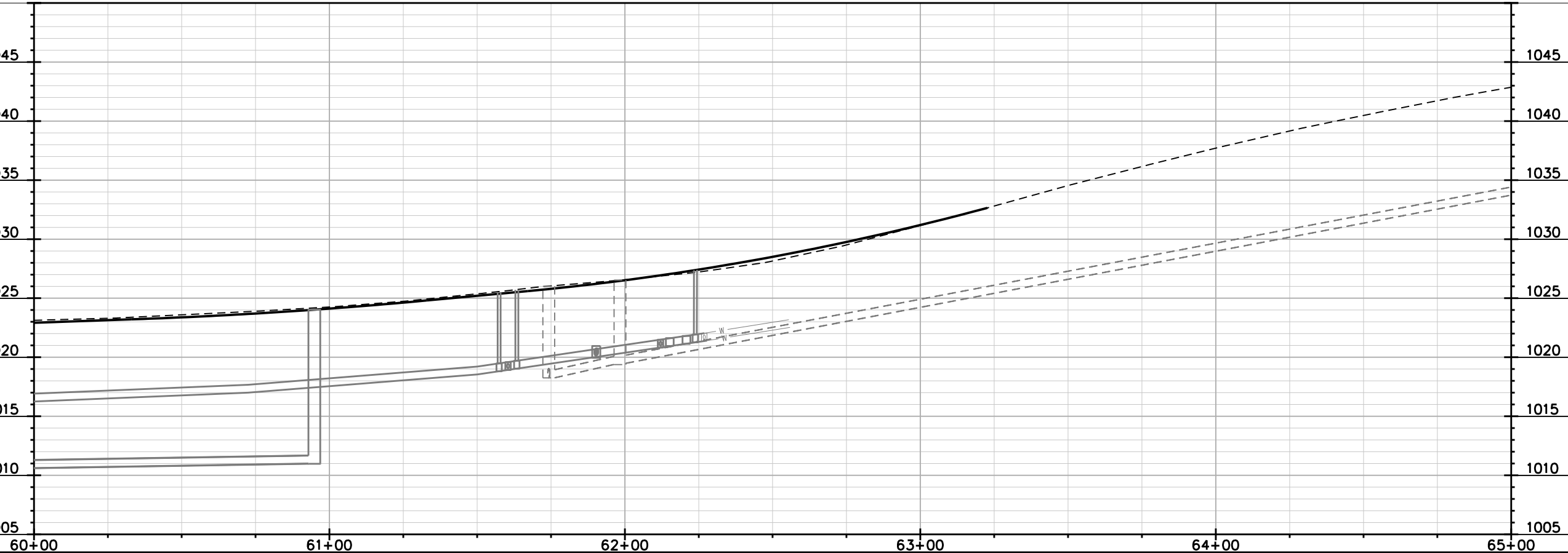
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EROSION CONTROL PLAN  
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 THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.  
 THE CONTRACTOR 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.

 CONSTRUCTION ENTRANCE (S.D.D. 1.07)



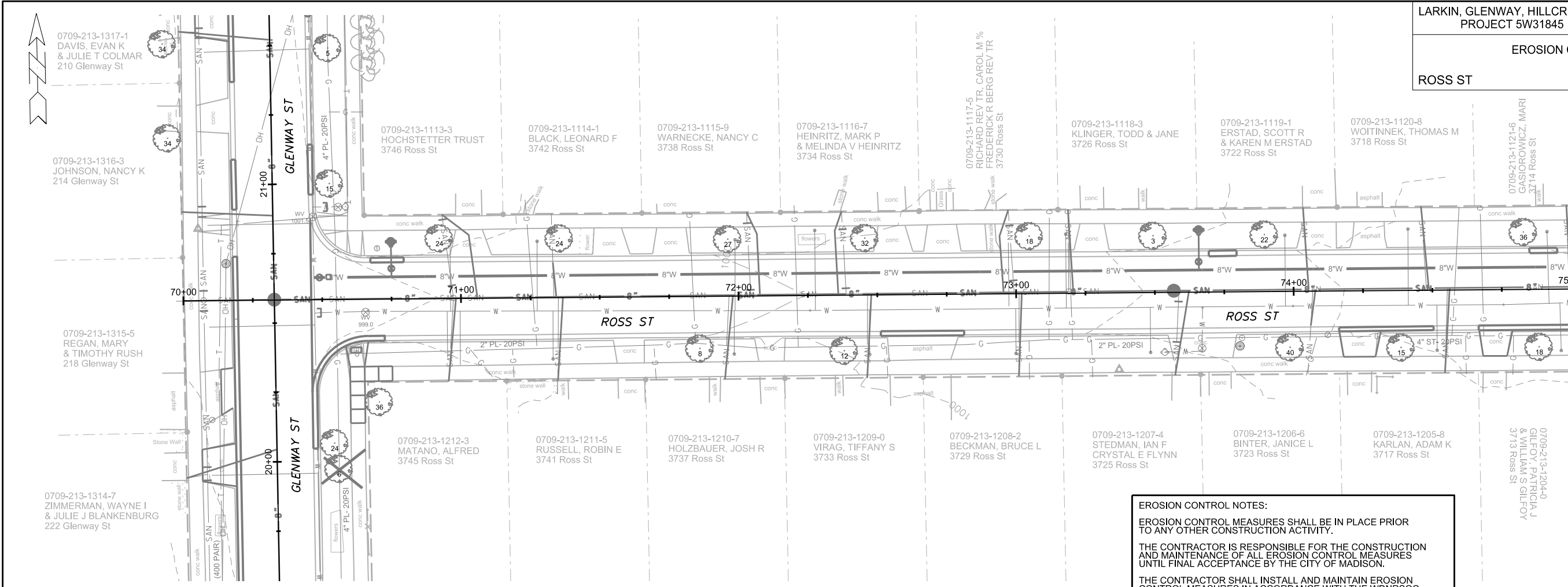
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PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN  
ROSS ST CITY OF MADISON



MATCHLINE STA 75+00.00

**EROSION CONTROL NOTES:**

- EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
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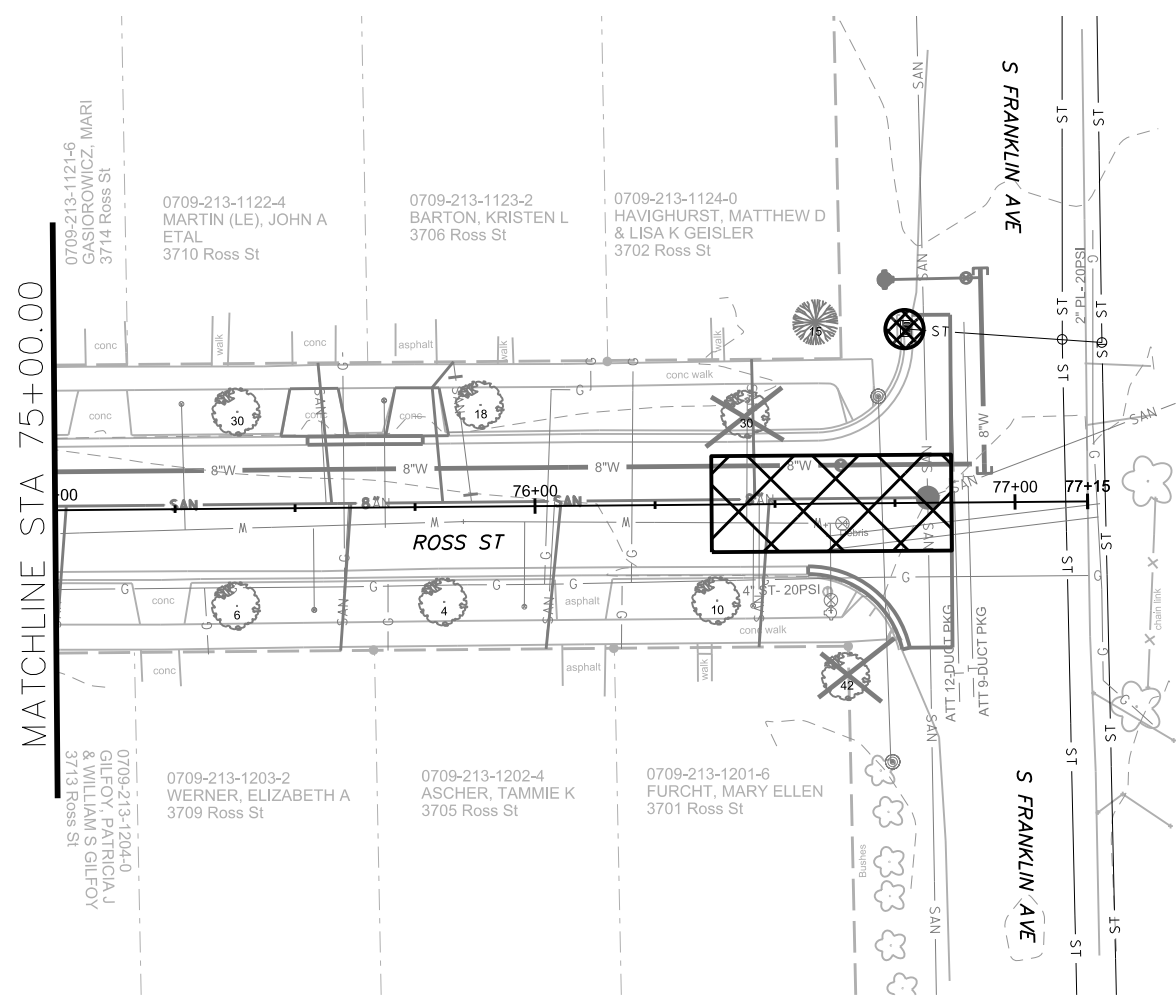
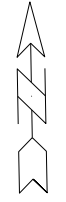
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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

ROSS ST CITY OF MADISON



**STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)**

**TYPE D HYBRID INLET PROTECTION**

**EROSION CONTROL NOTES:**

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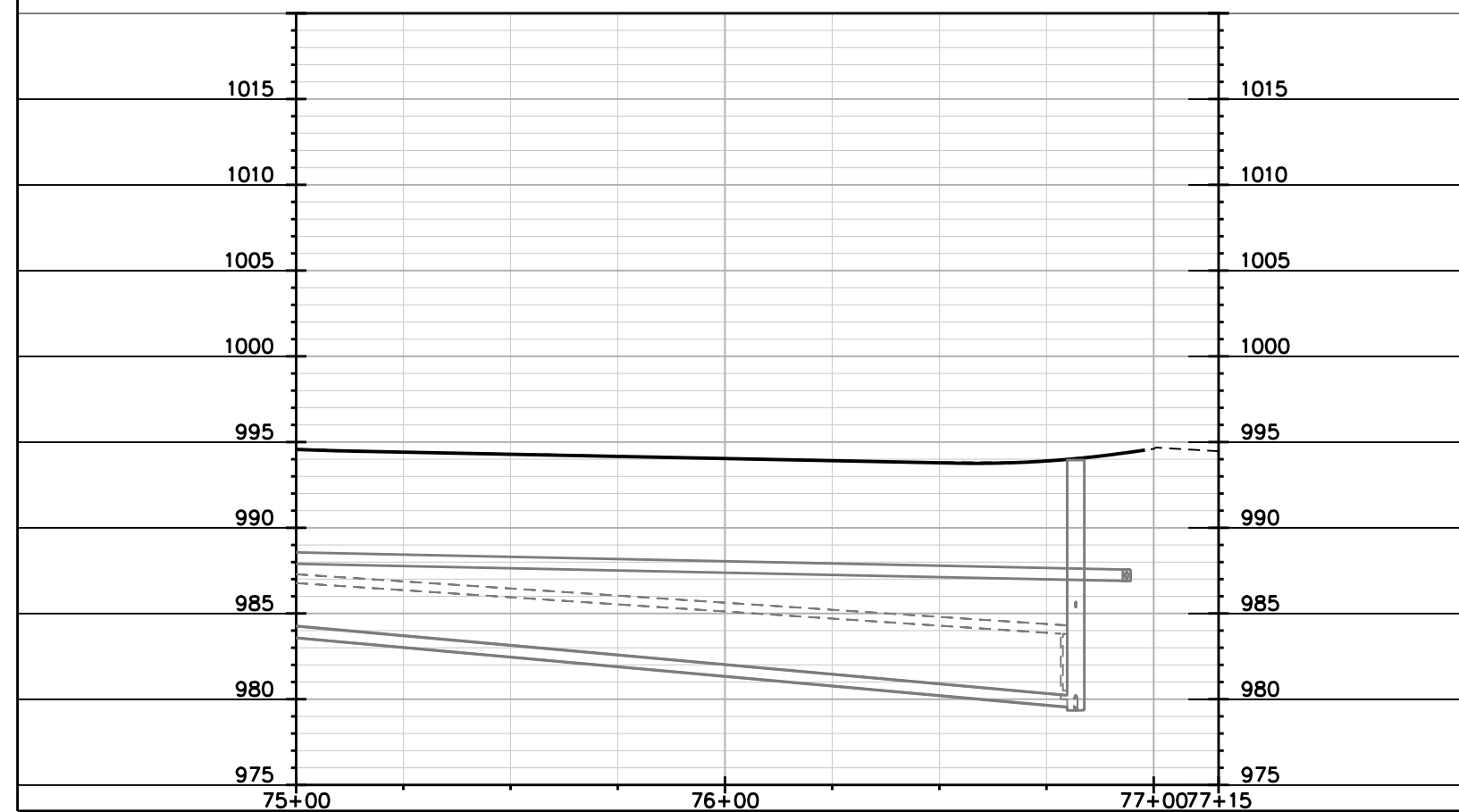
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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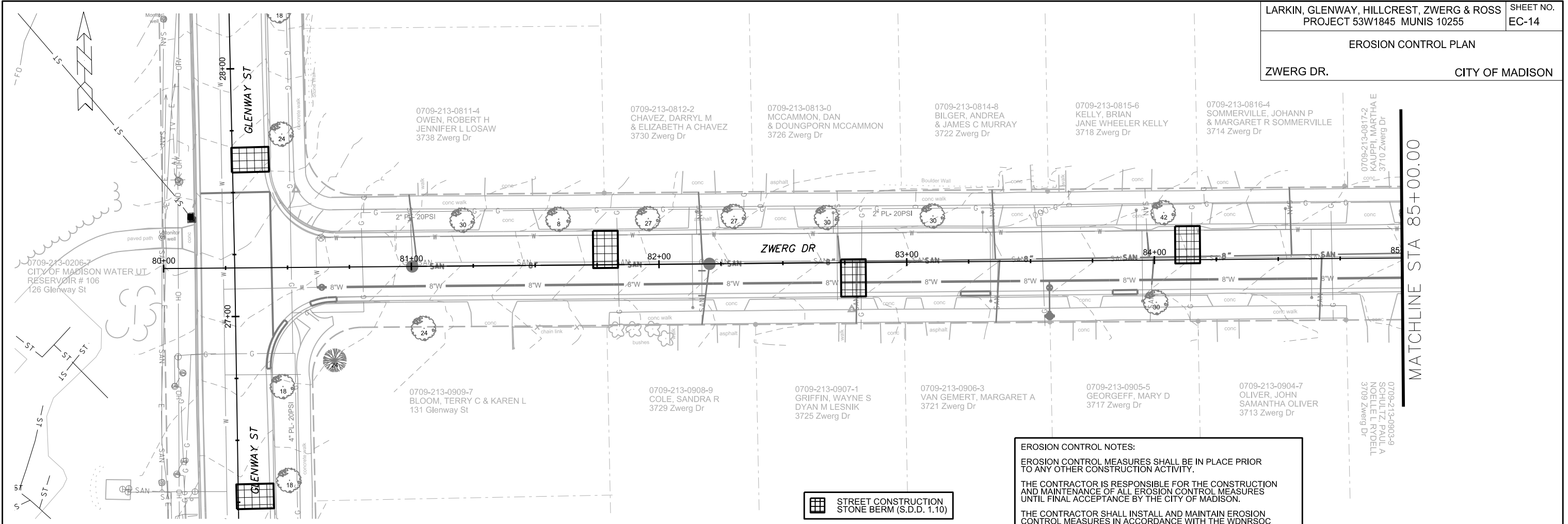
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL PLAN

ZWERG DR. CITY OF MADISON



STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

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PLOT NAME:

REV. DATE:

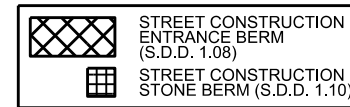
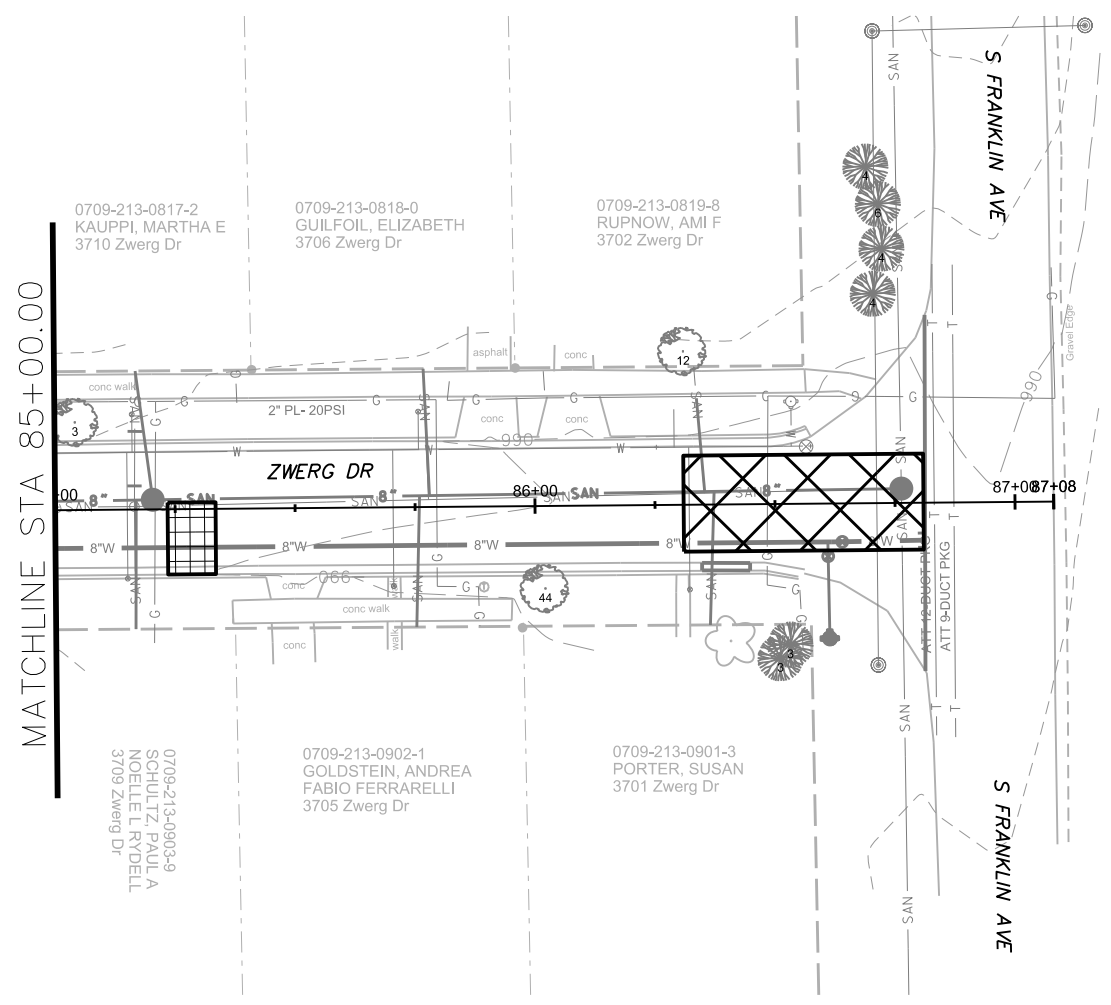
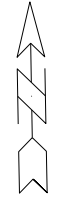
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL PLAN

ZWERG DR

CITY OF MADISON



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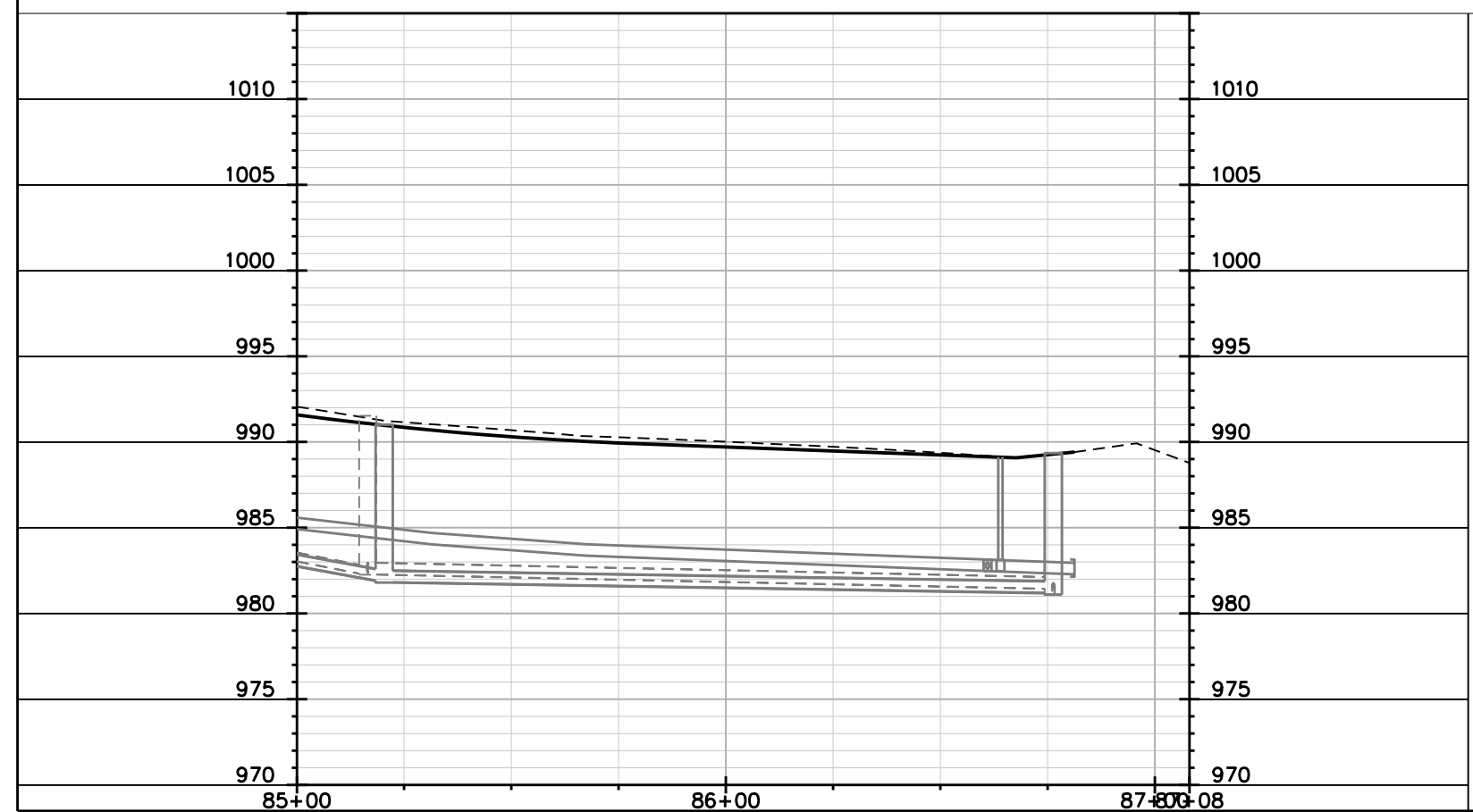
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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PLOT NAME:

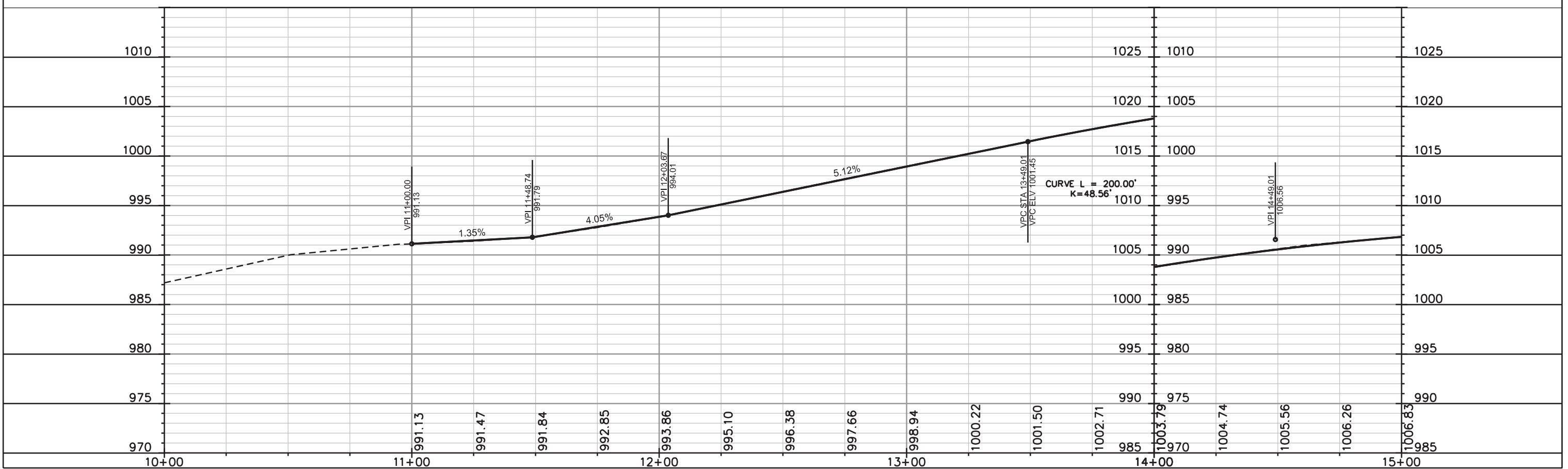
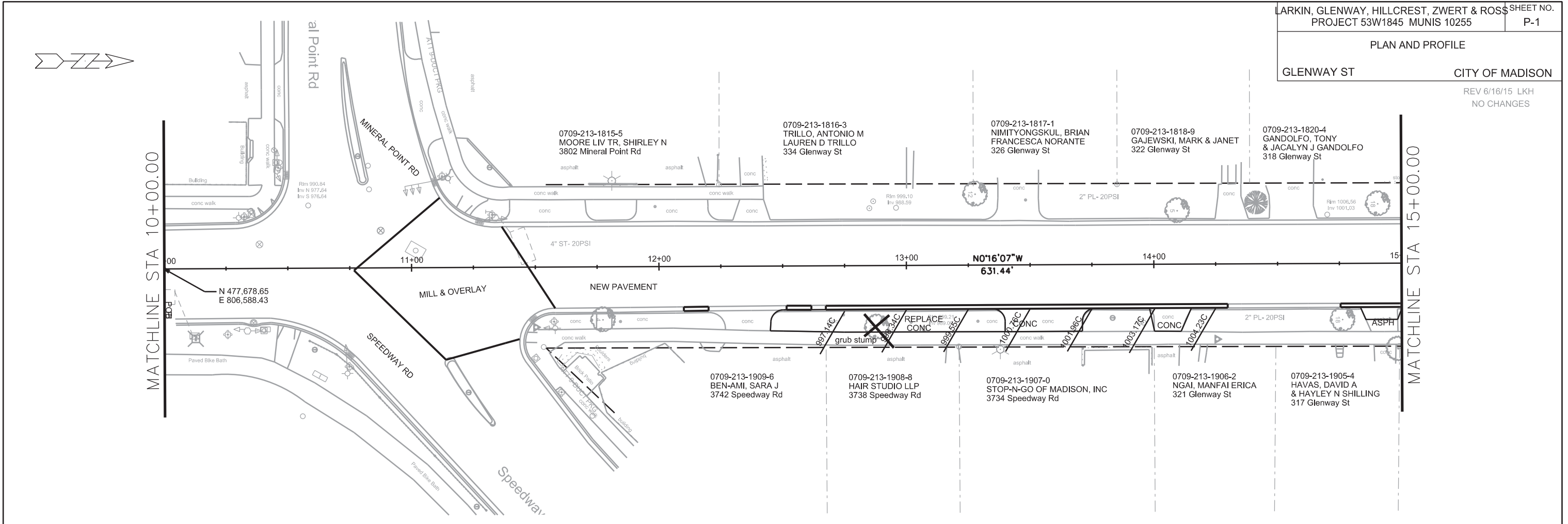
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLAN AND PROFILE  
 GLENWAY ST CITY OF MADISON

REV 6/16/15 LKH  
 NO CHANGES

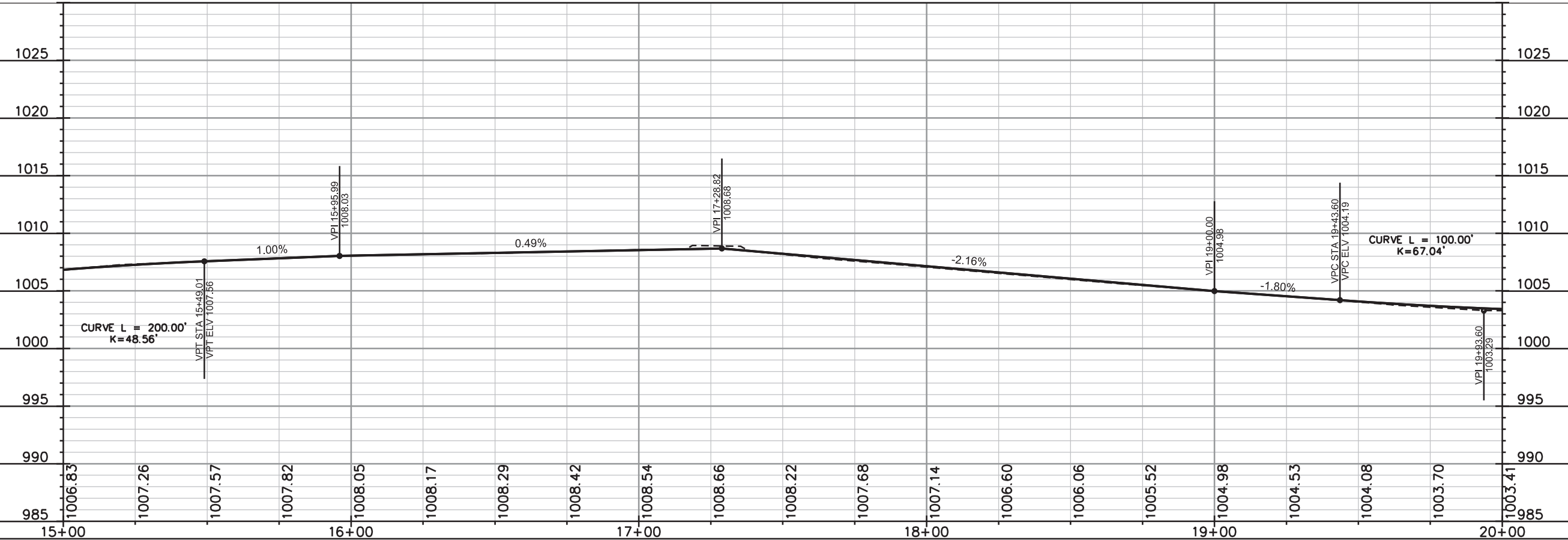
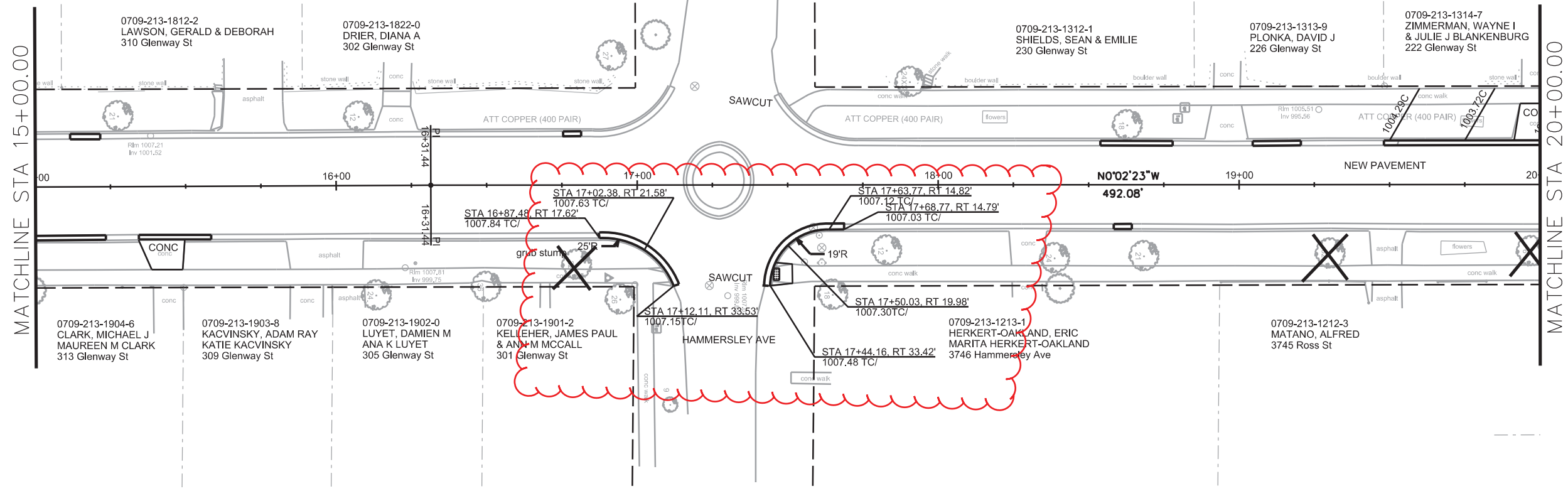


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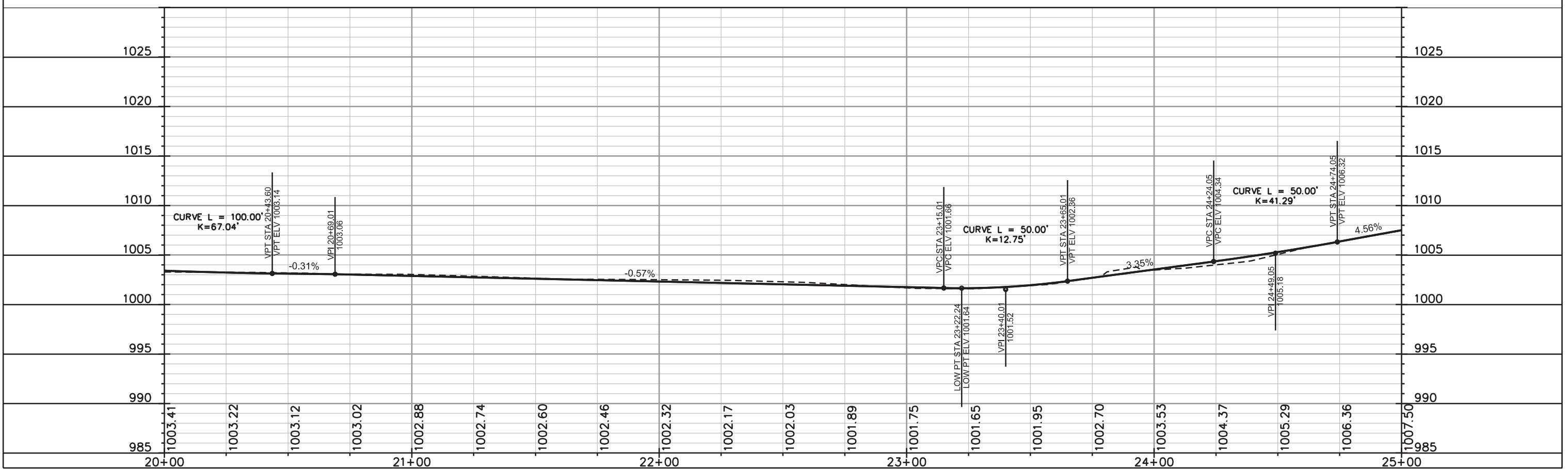
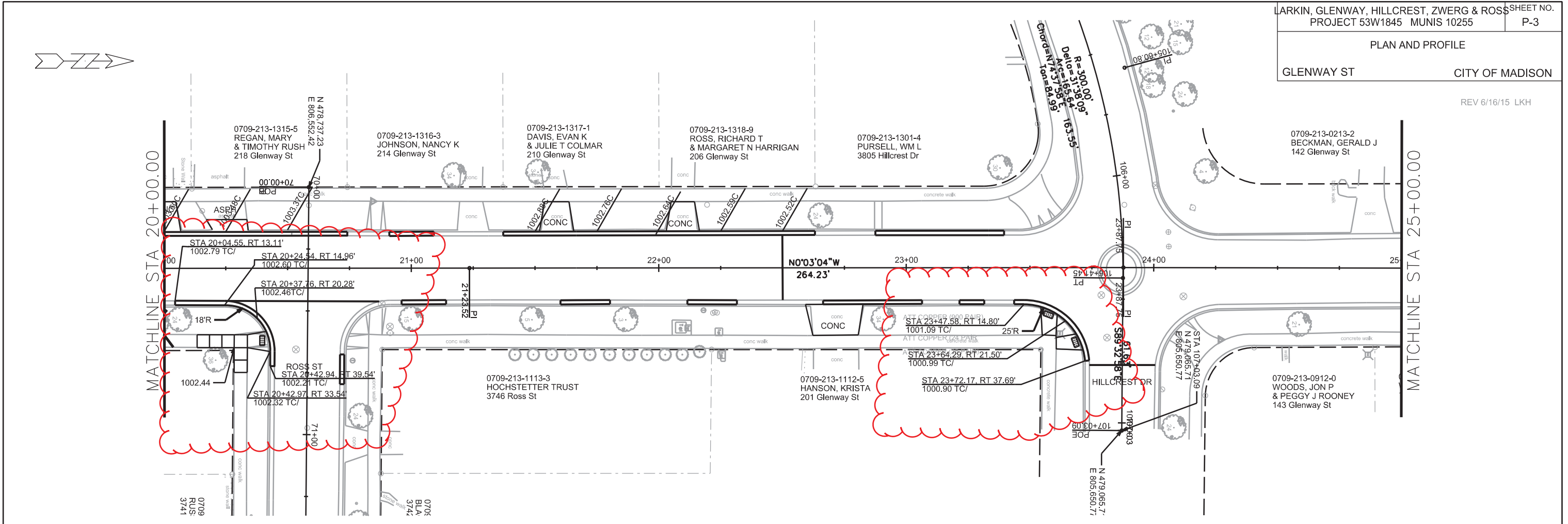
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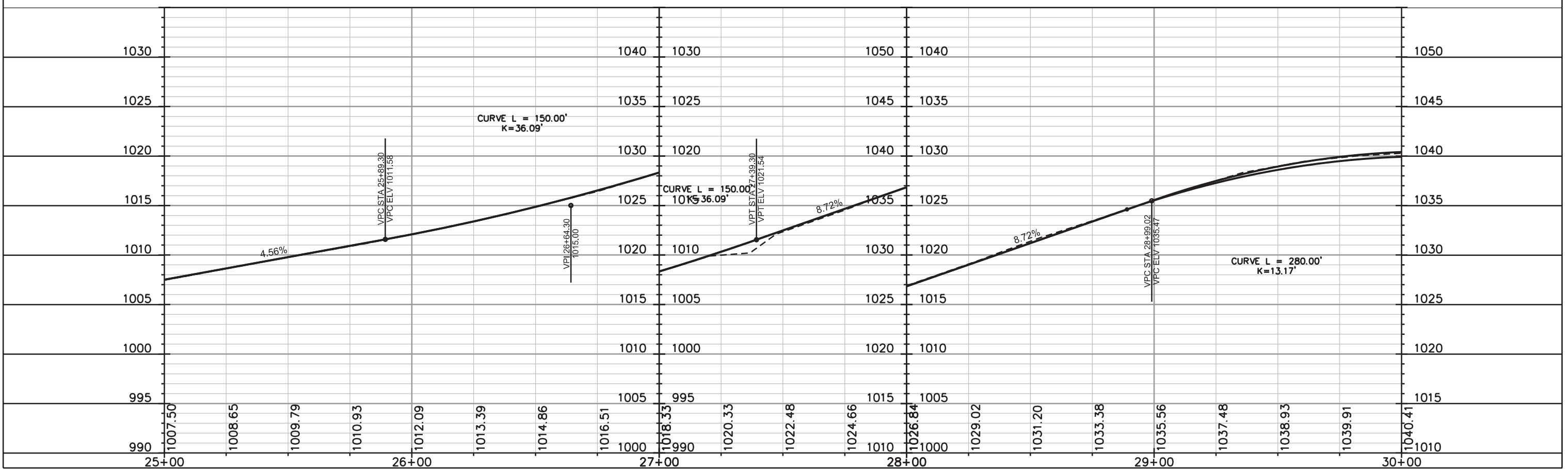
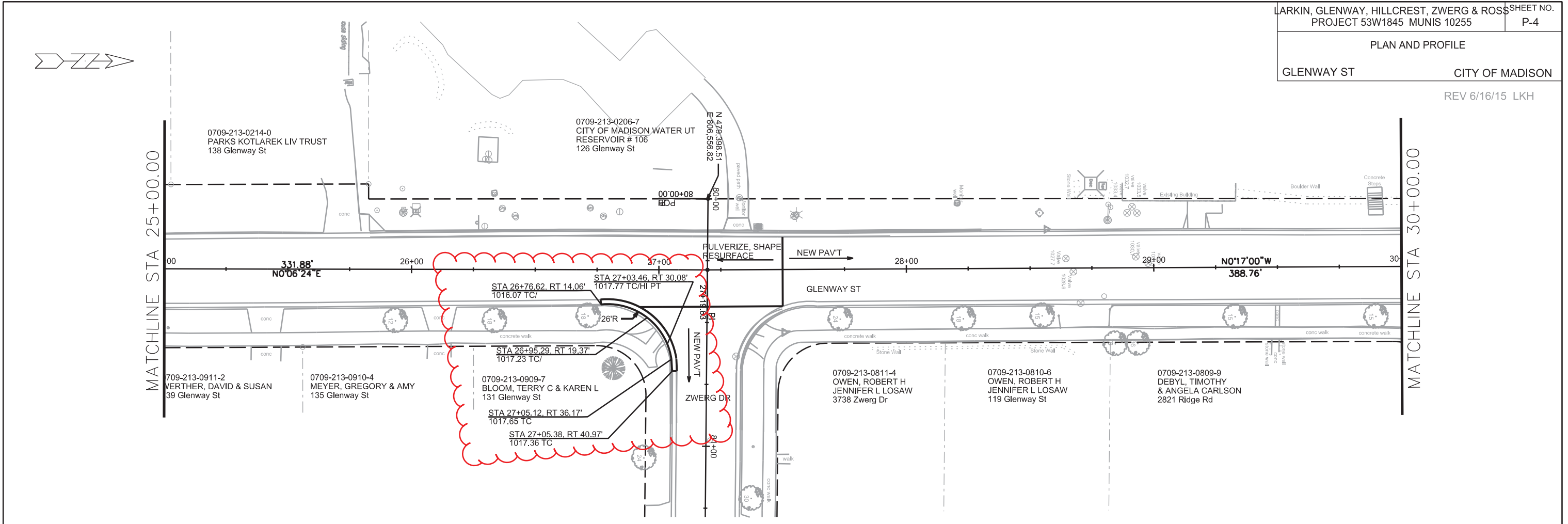
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 GLENWAY ST CITY OF MADISON

REV 6/16/15 LKH



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

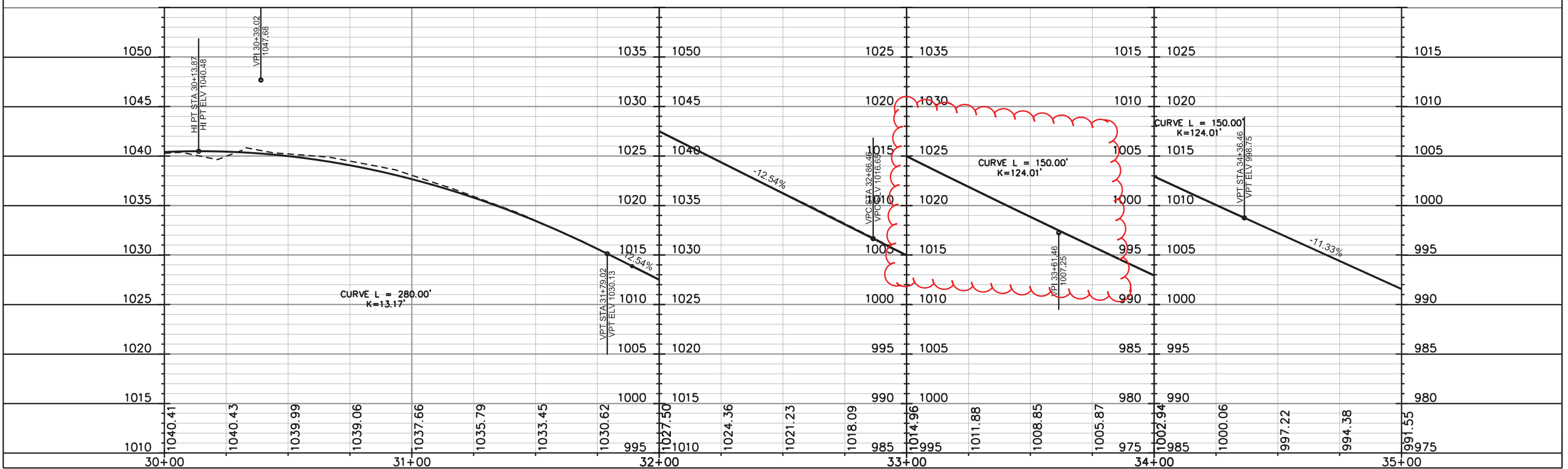
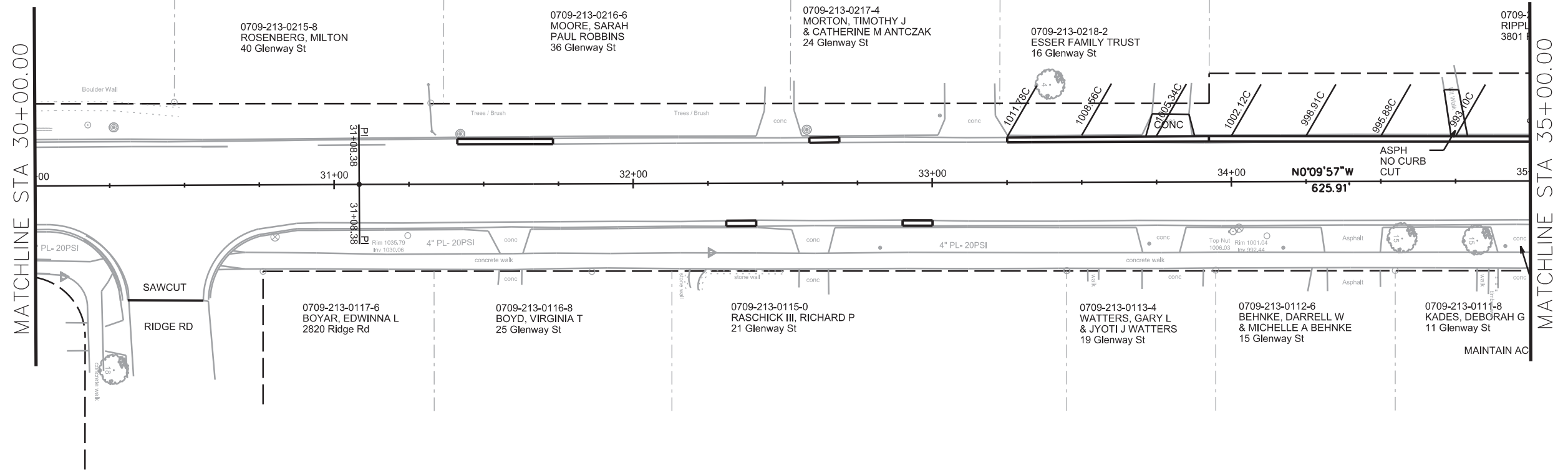


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REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



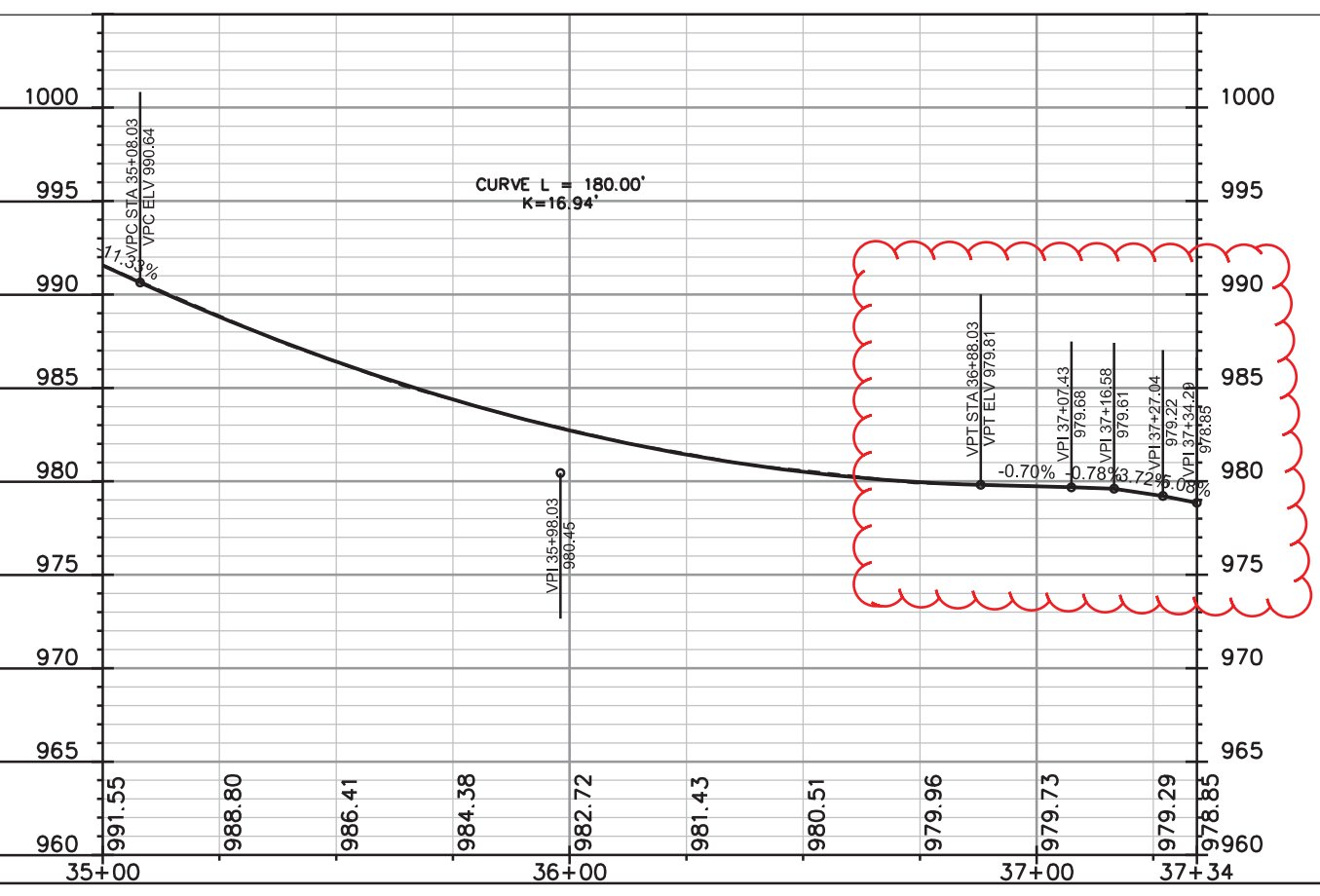
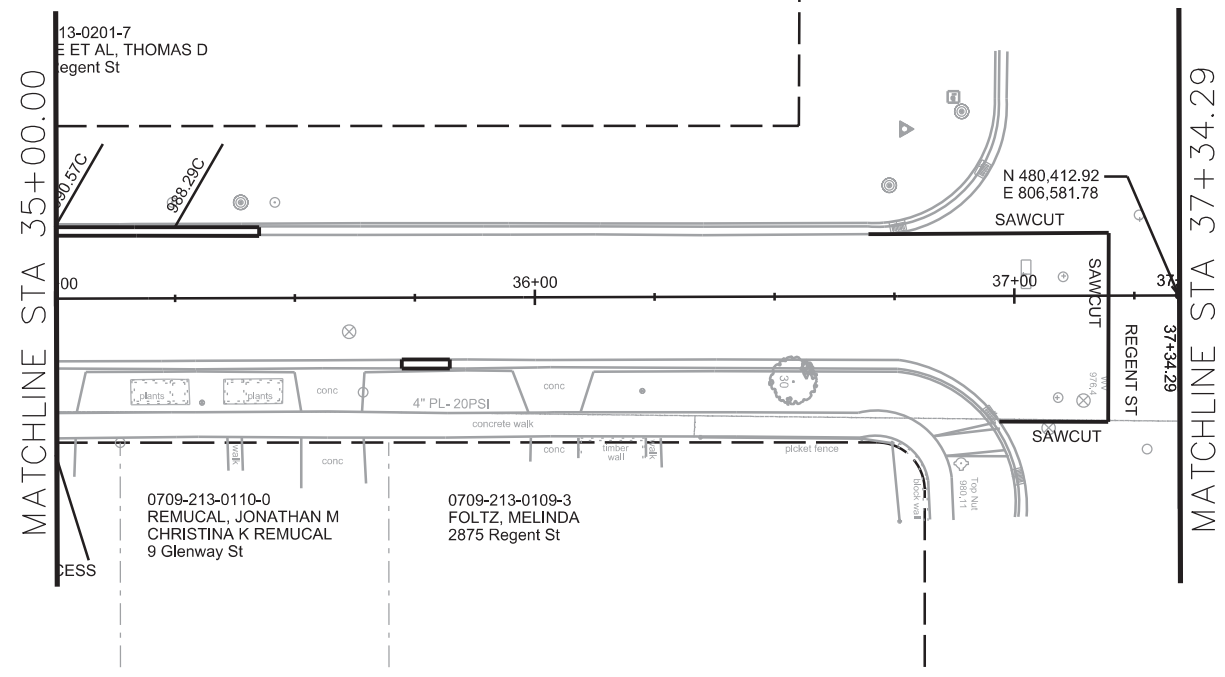
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 GLENWAY ST CITY OF MADISON

REV 6/16/15 LKH



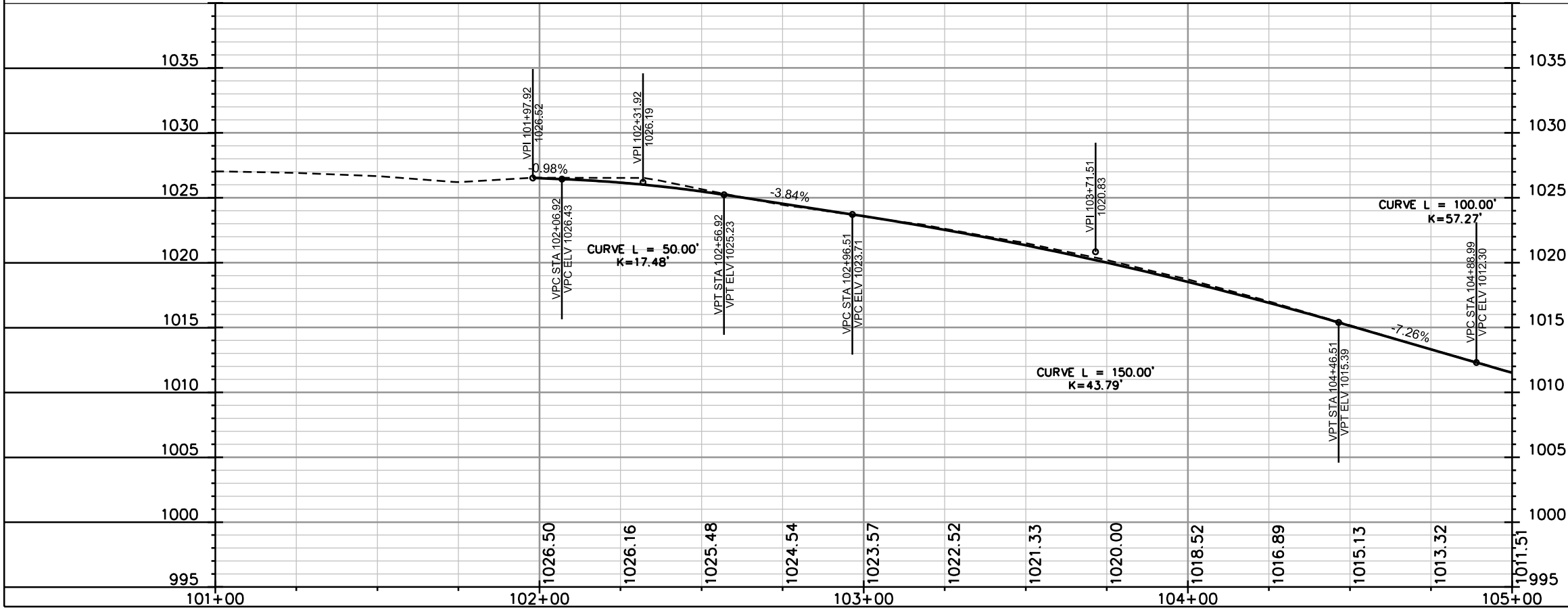
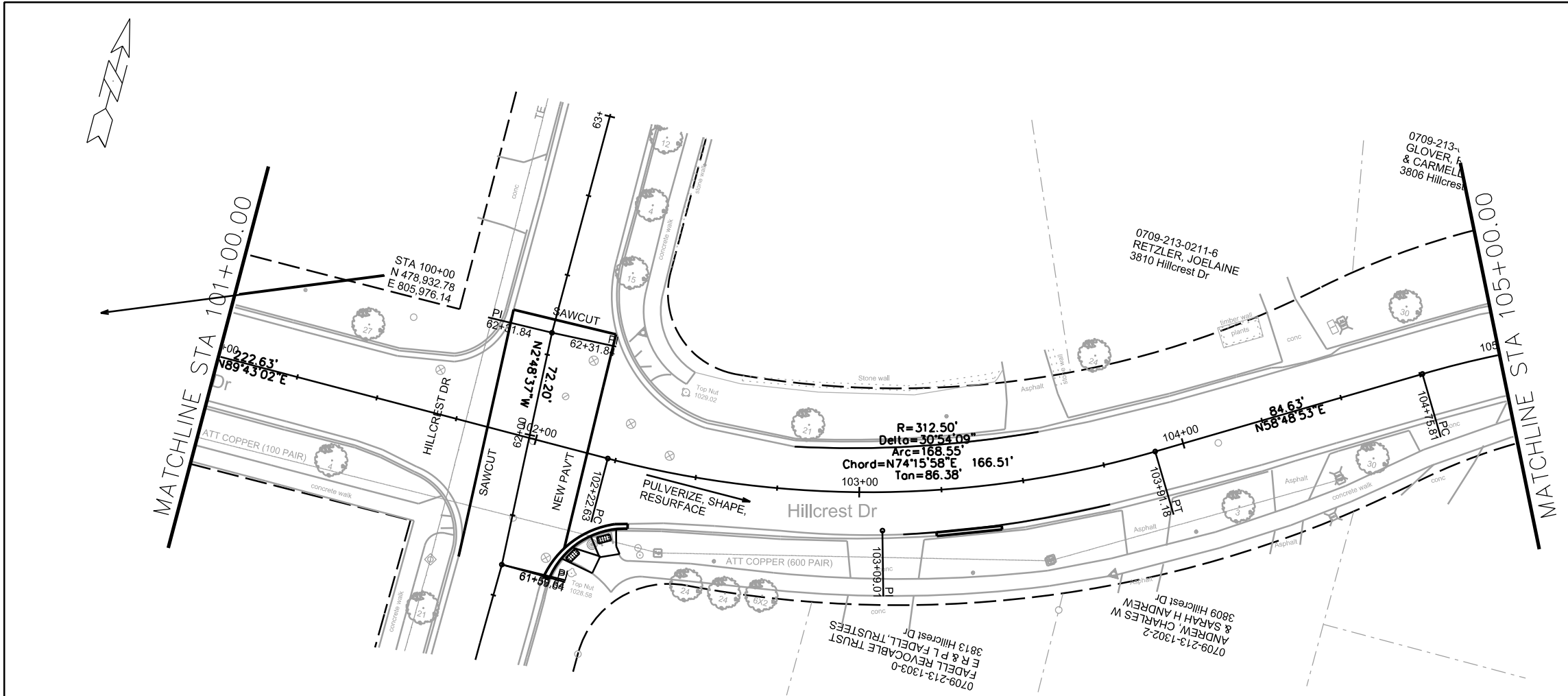
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 HILLCREST DR CITY OF MADISON



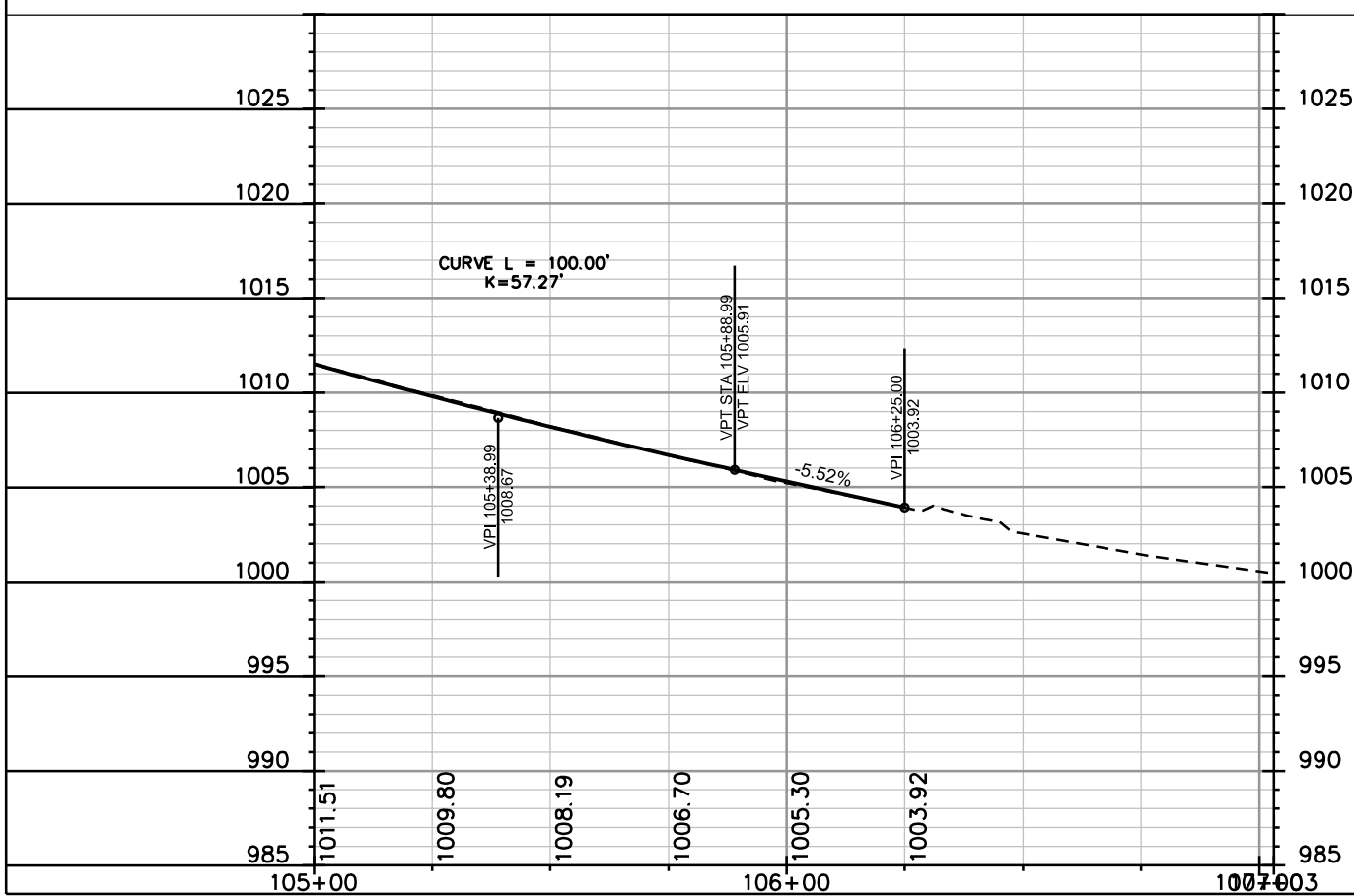
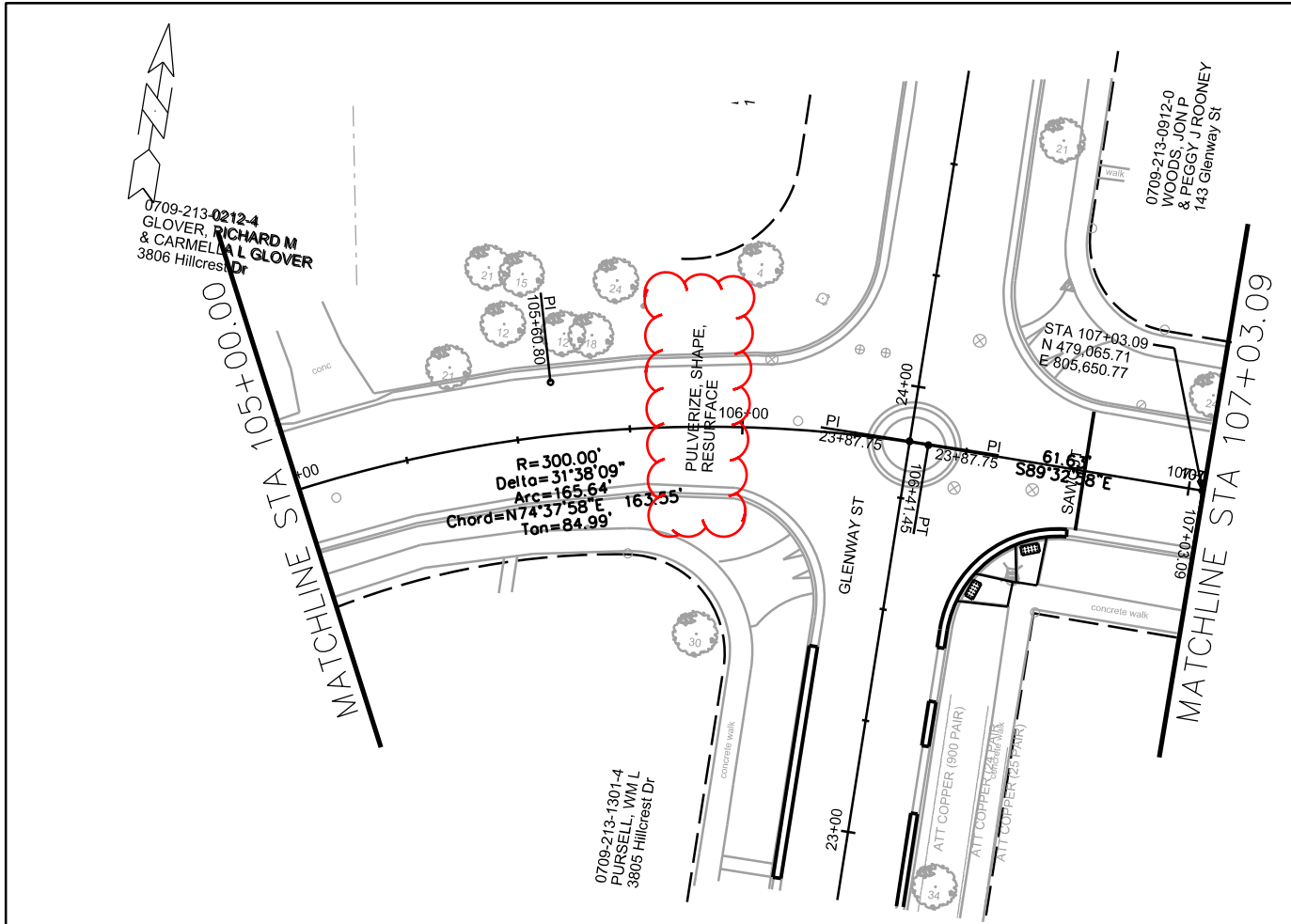
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION





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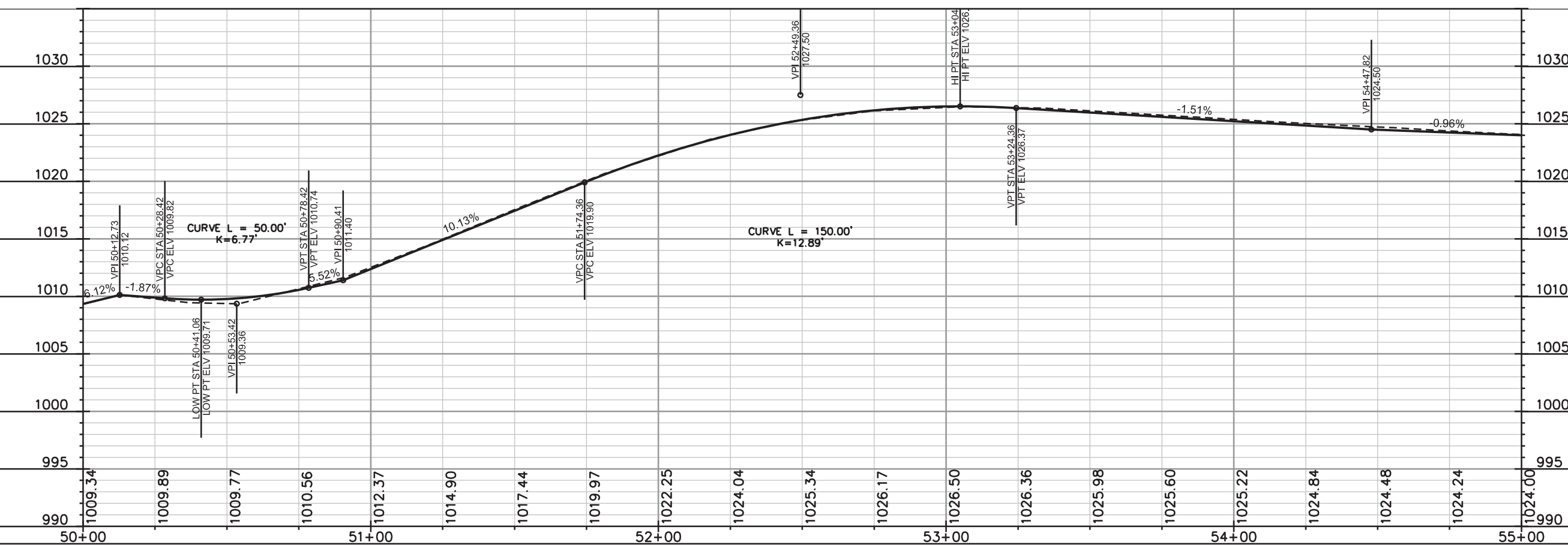
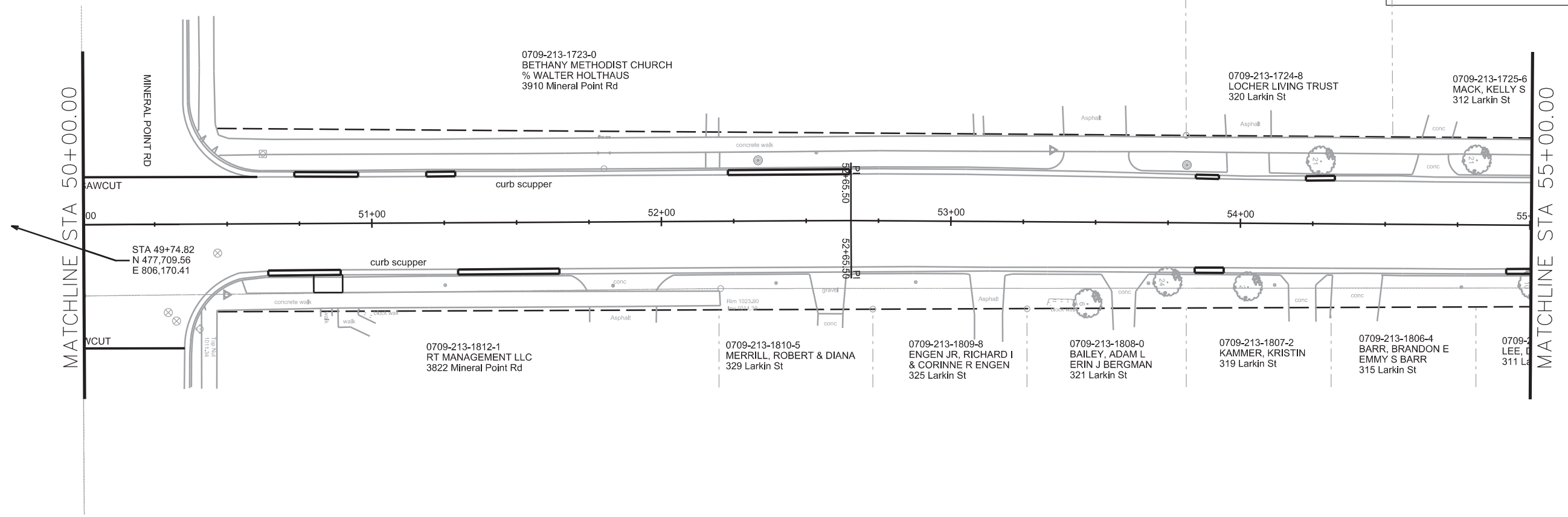
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
LARKIN ST CITY OF MADISON

REV 6.16.15 LKH  
NO CHANGES

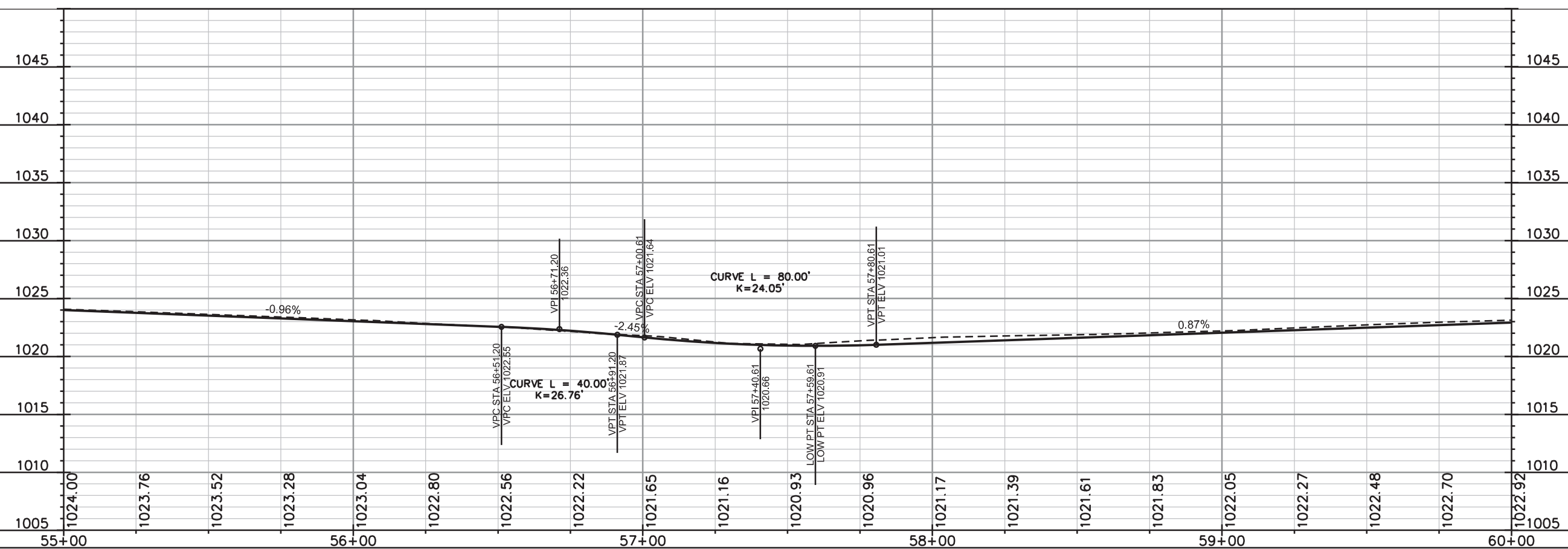
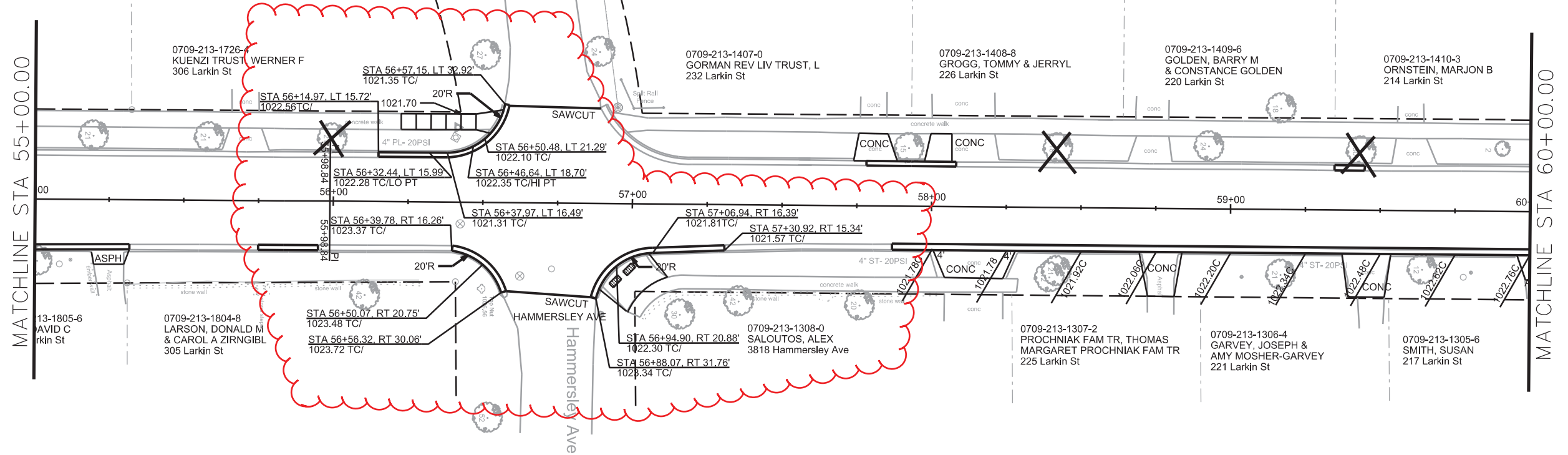


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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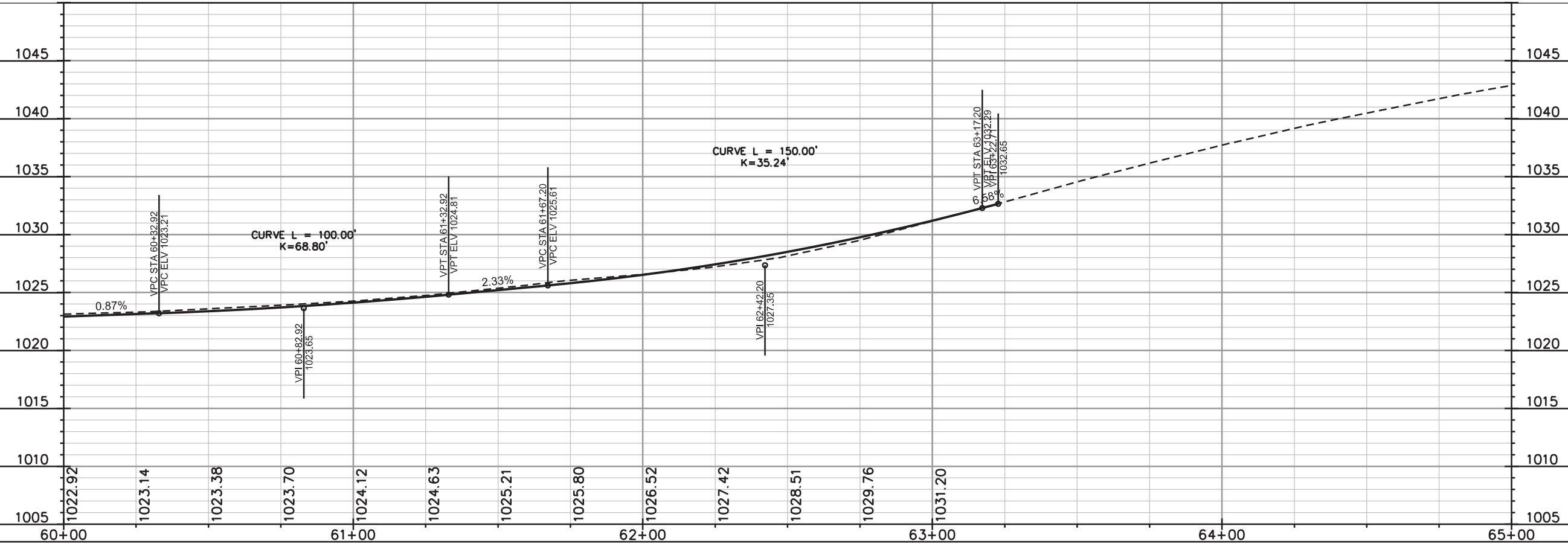
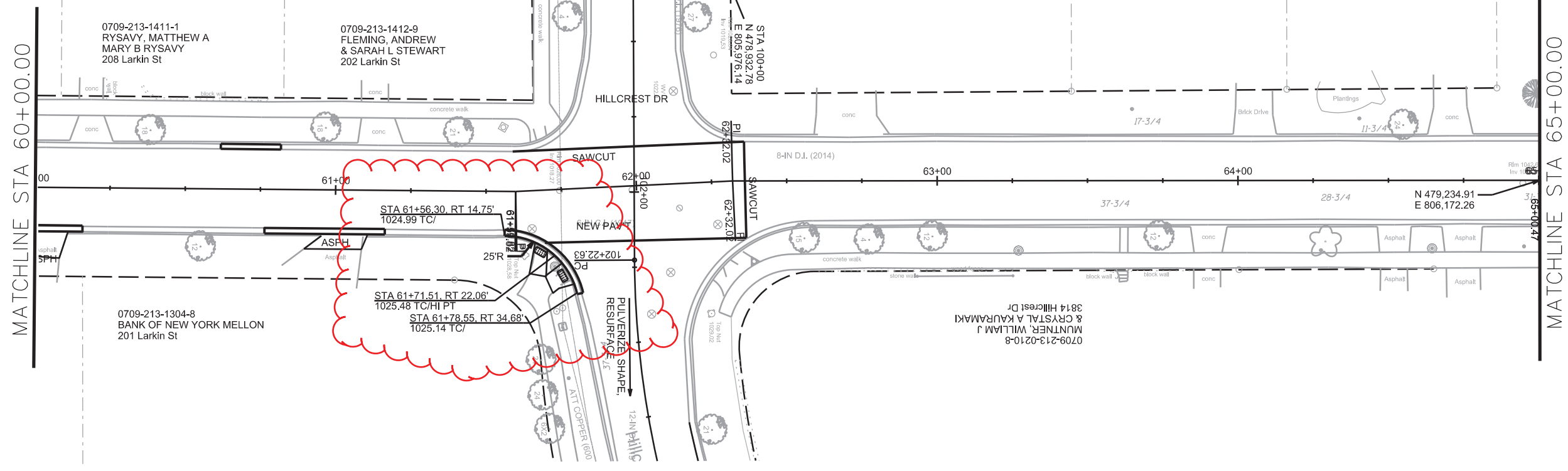
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 LARKIN ST CITY OF MADISON

REV 6/16/15 LKH

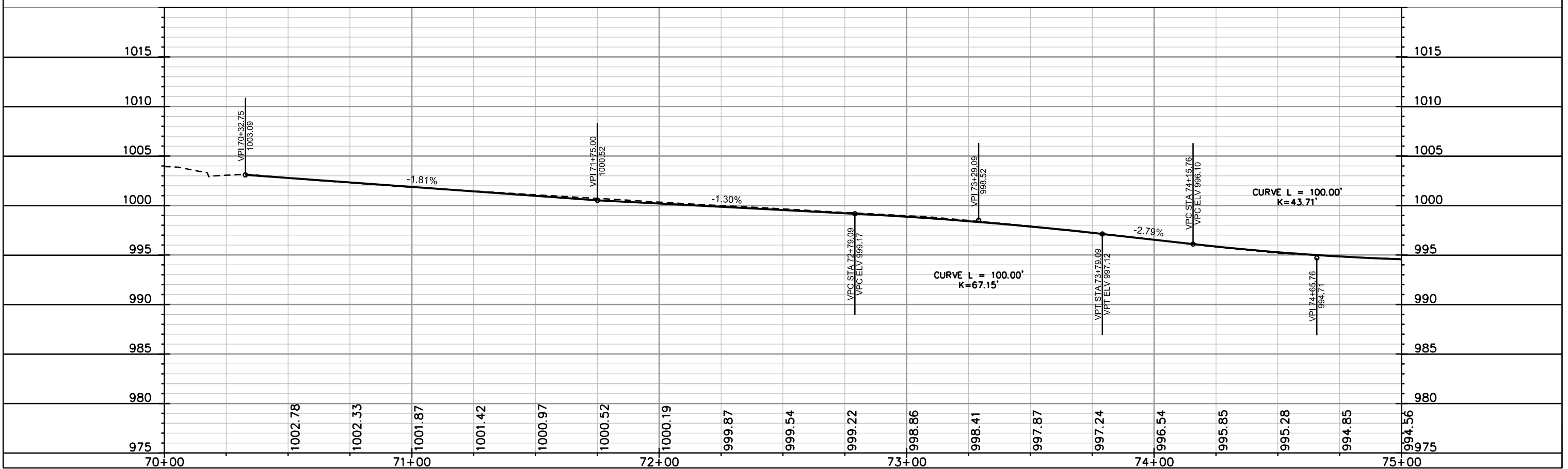
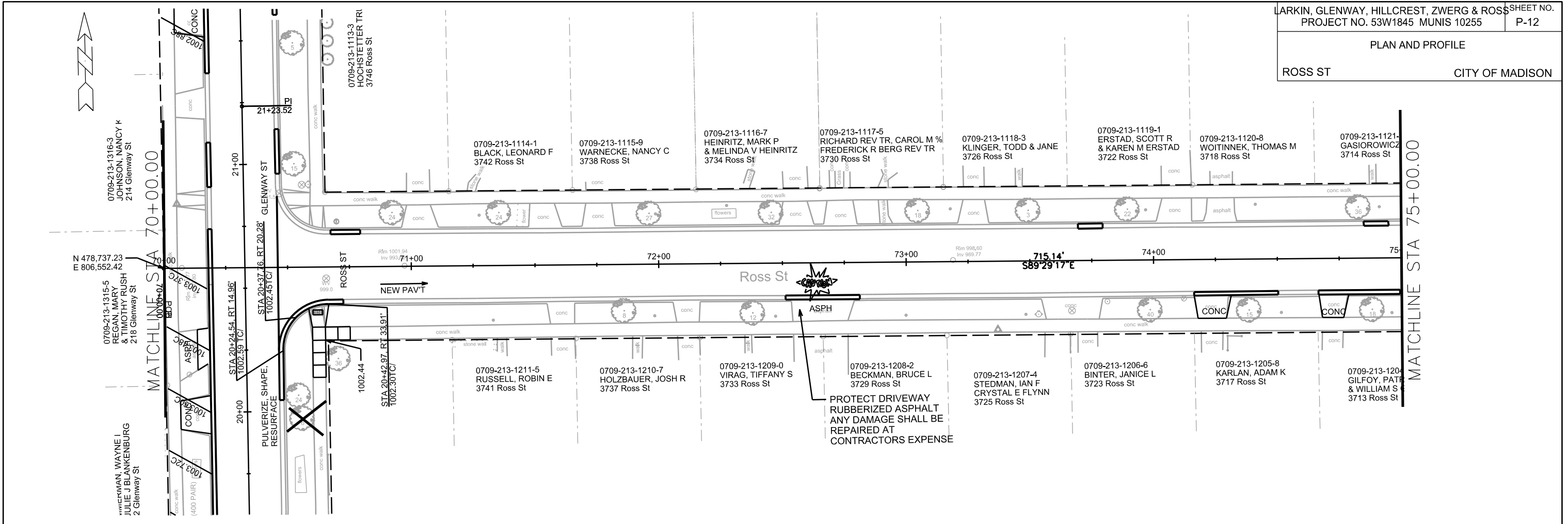


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



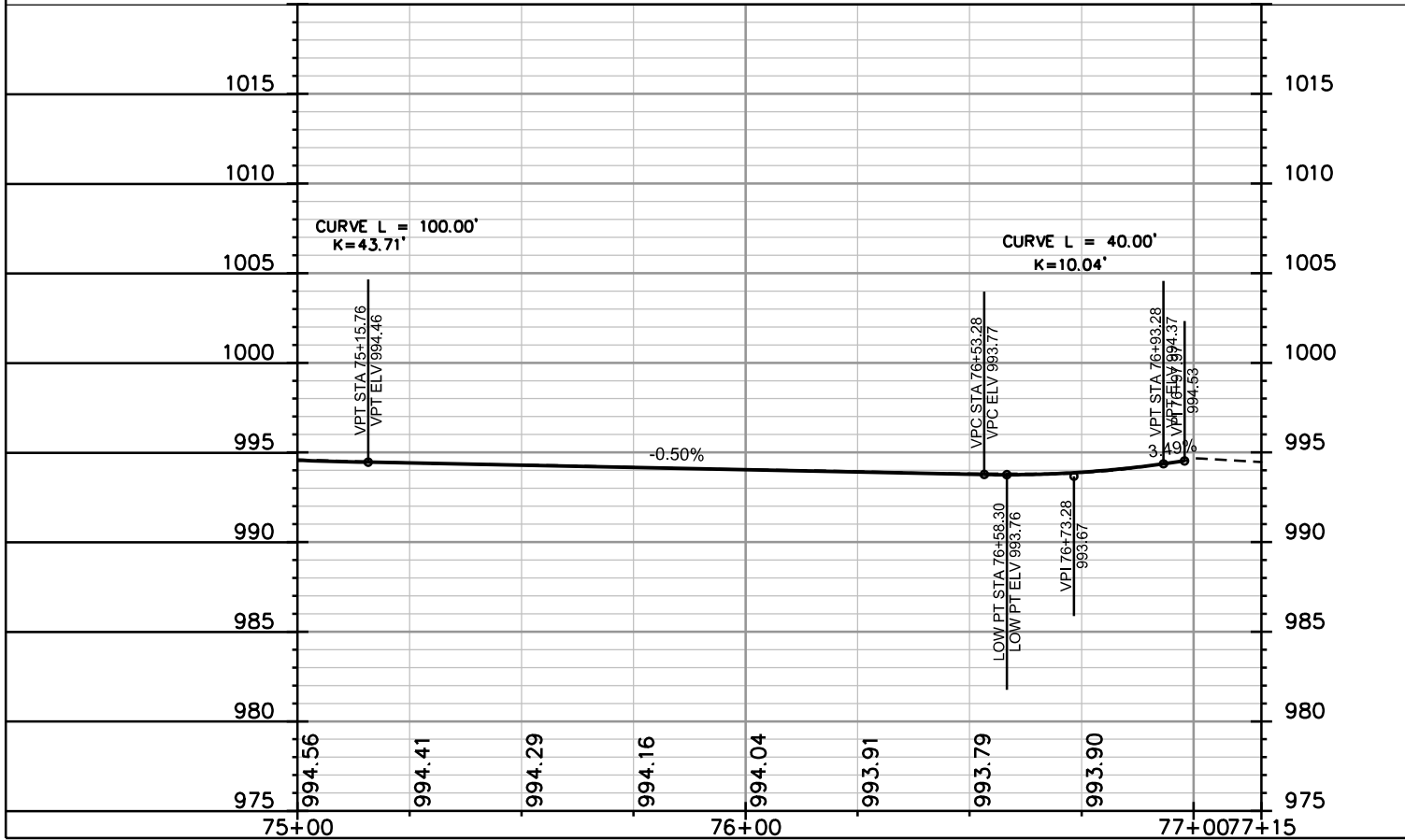
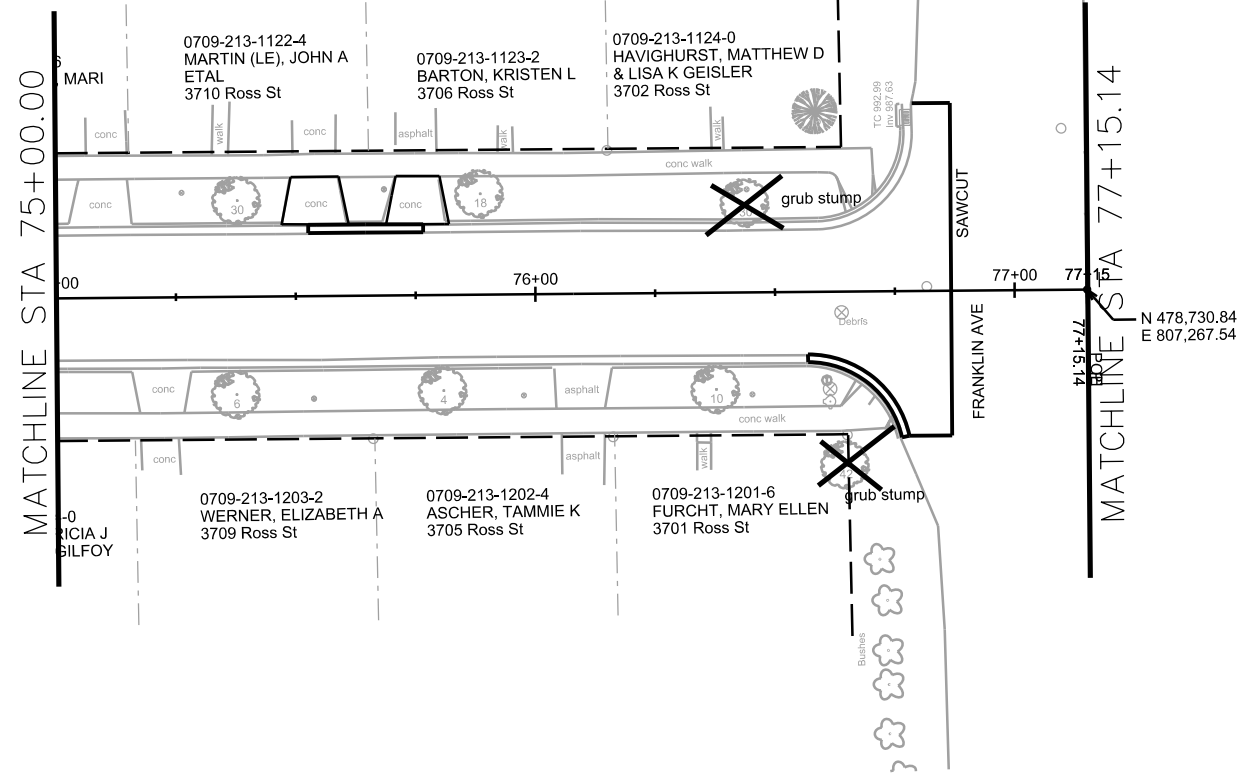
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 ROSS ST CITY OF MADISON



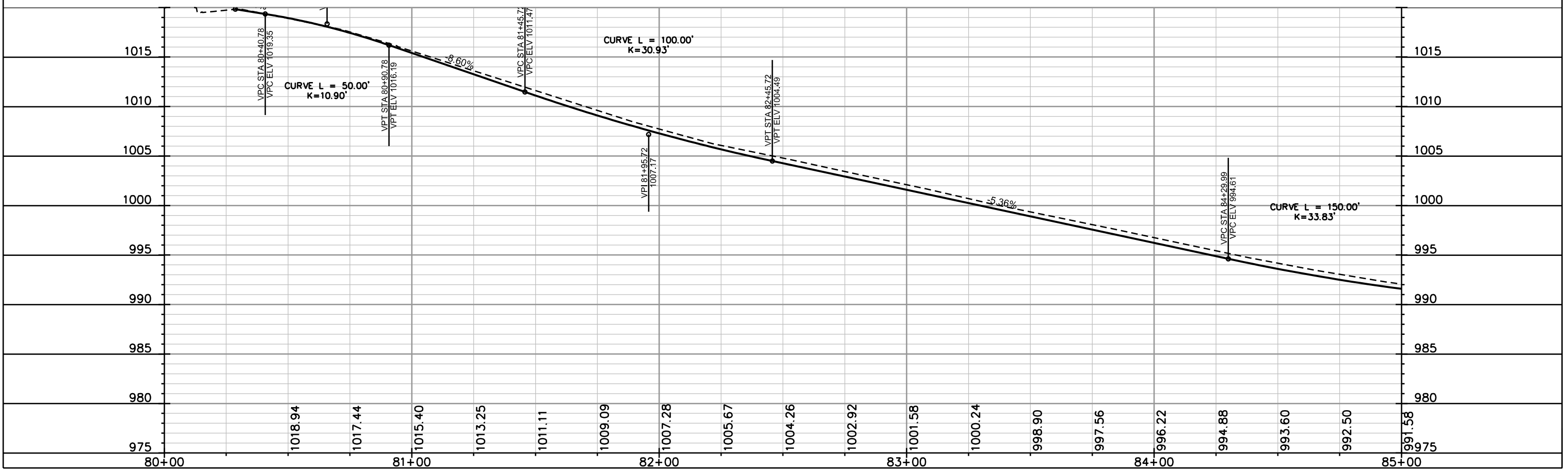
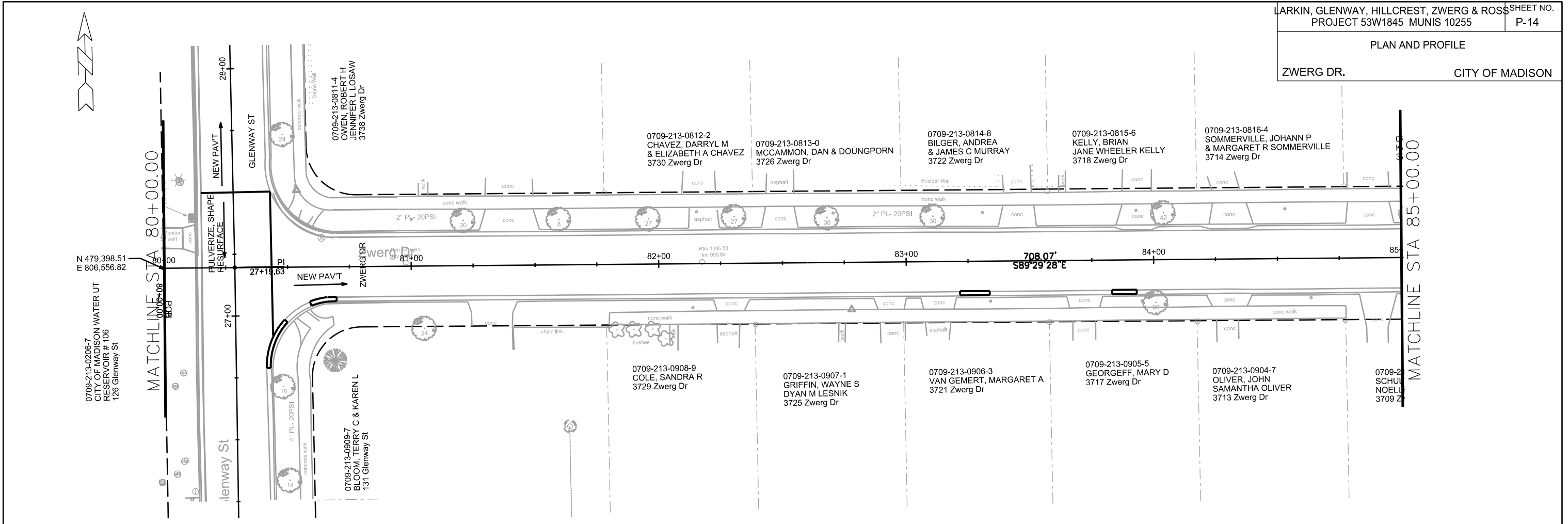
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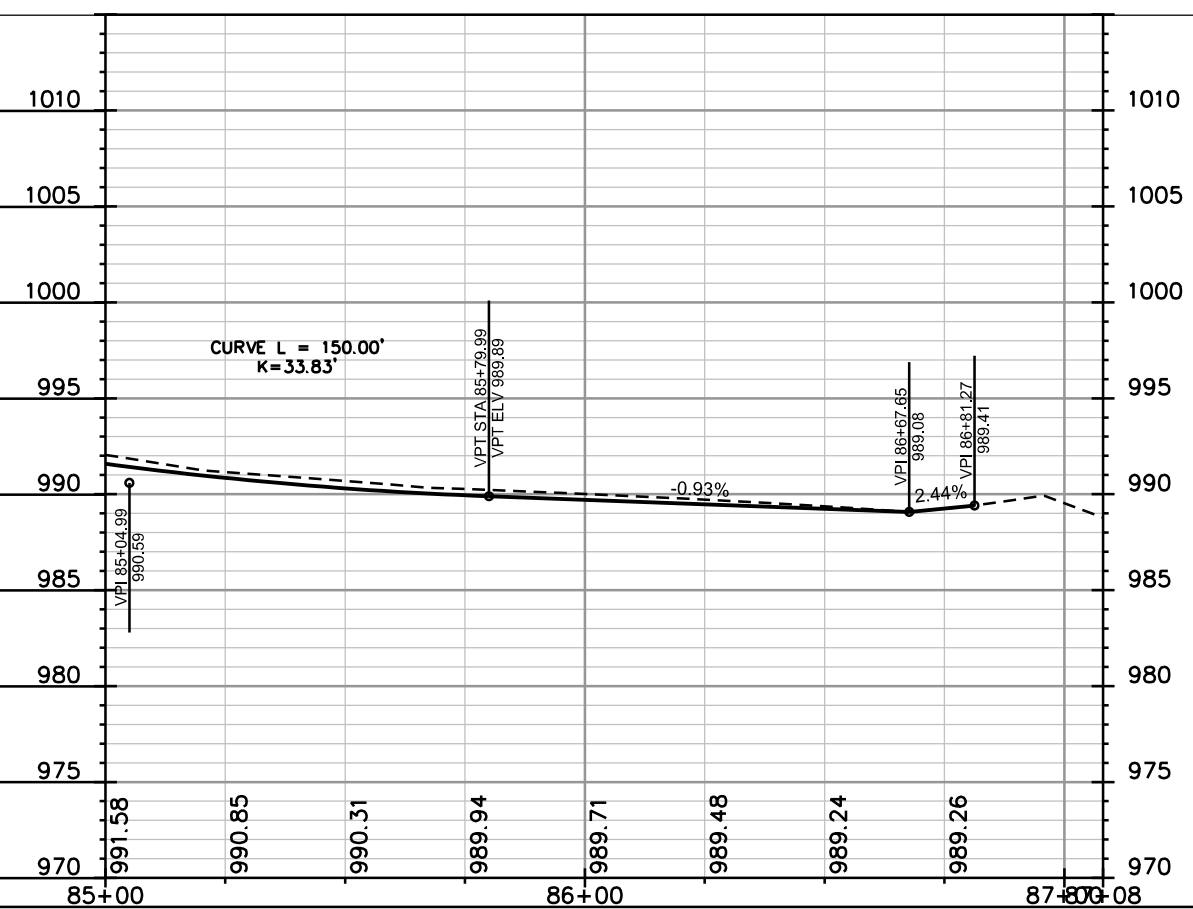
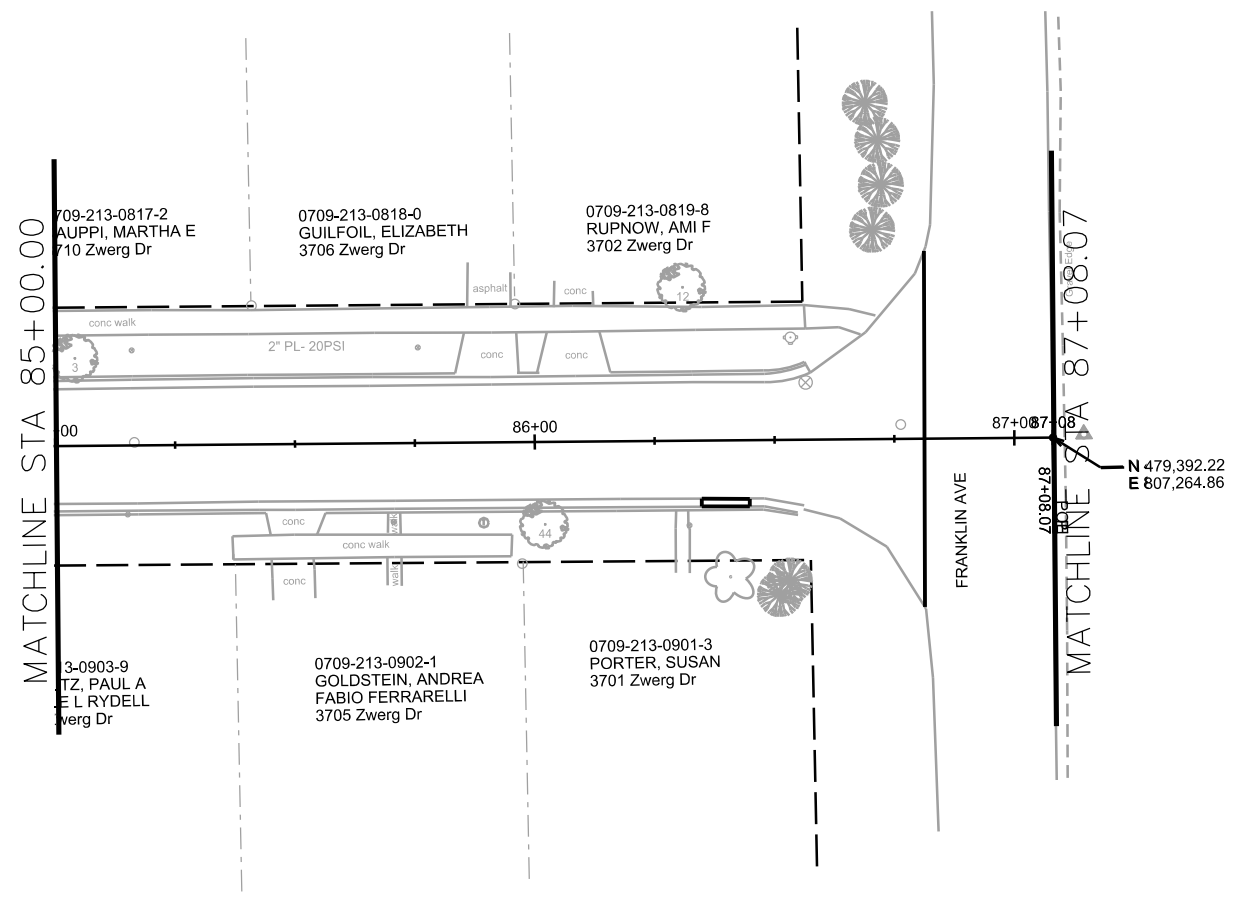
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
 ZWERG DR. CITY OF MADISON



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

PLAN AND PROFILE  
 ZWERG DR CITY OF MADISON



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

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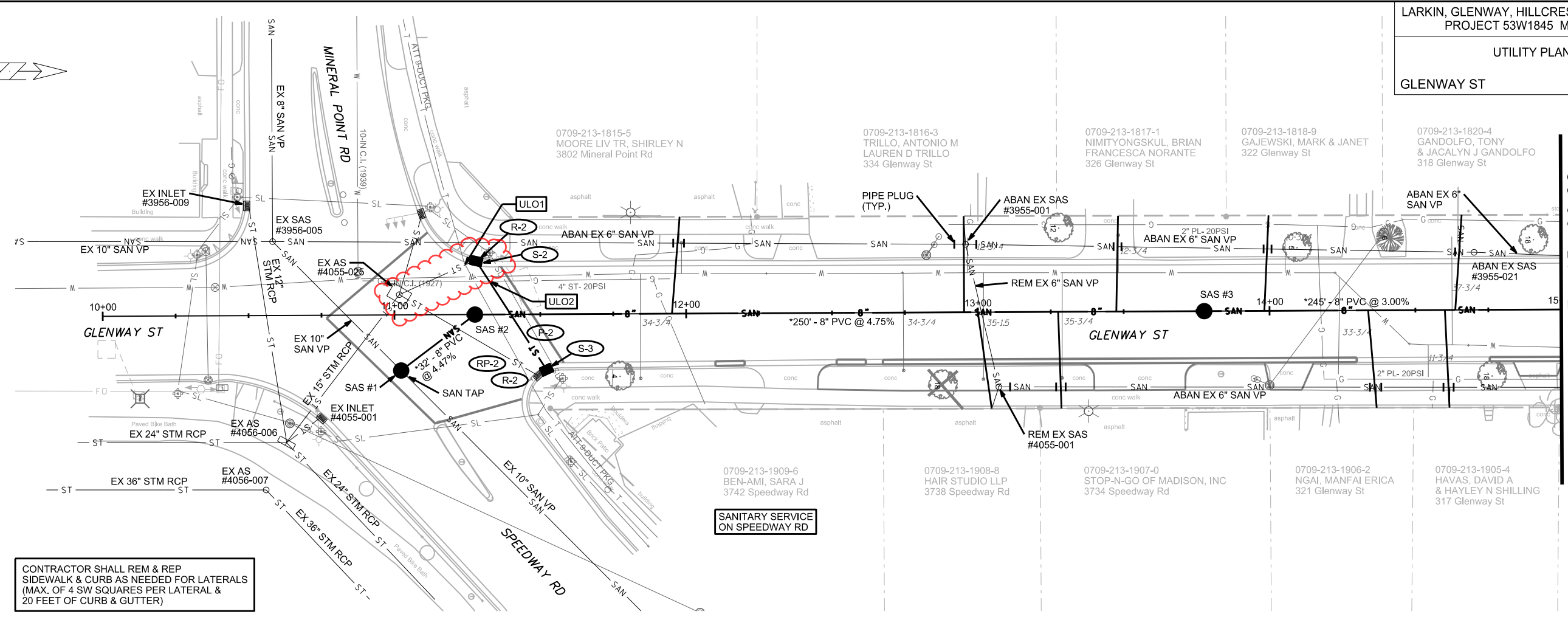
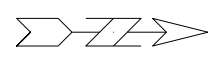
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

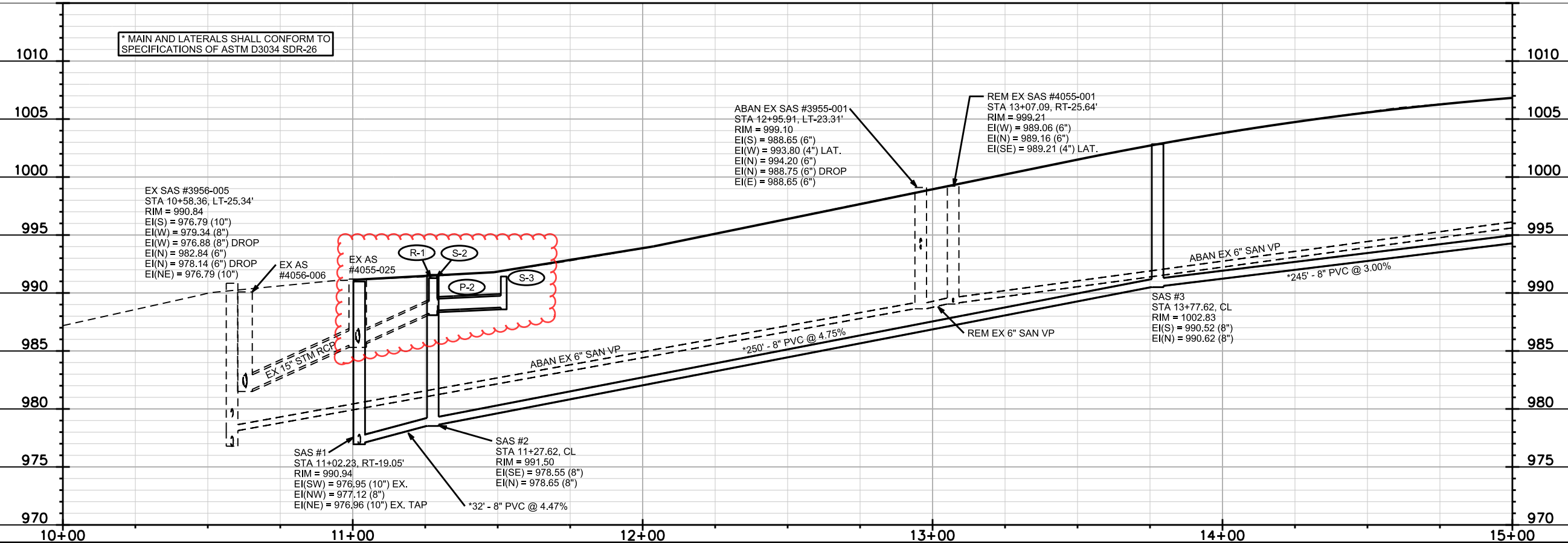


UTILITY PLAN AND PROFILE

GLENWAY ST CITY OF MADISON



CONTRACTOR SHALL REM & REP  
SIDEWALK & CURB AS NEEDED FOR LATERALS  
(MAX. OF 4 SW SQUARES PER LATERAL &  
20 FEET OF CURB & GUTTER)

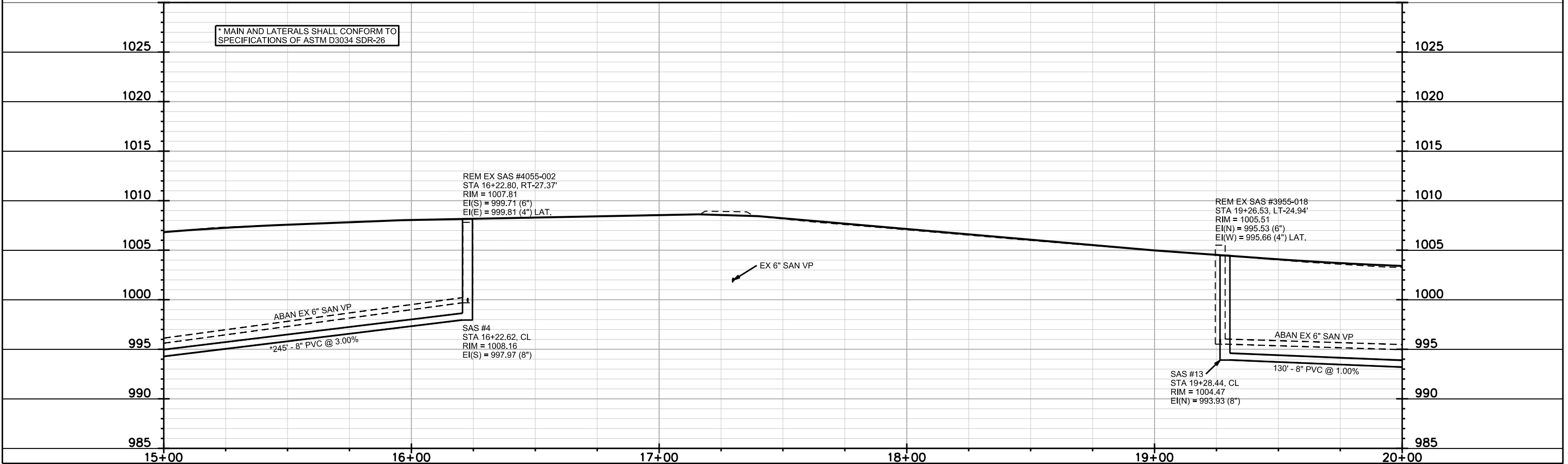
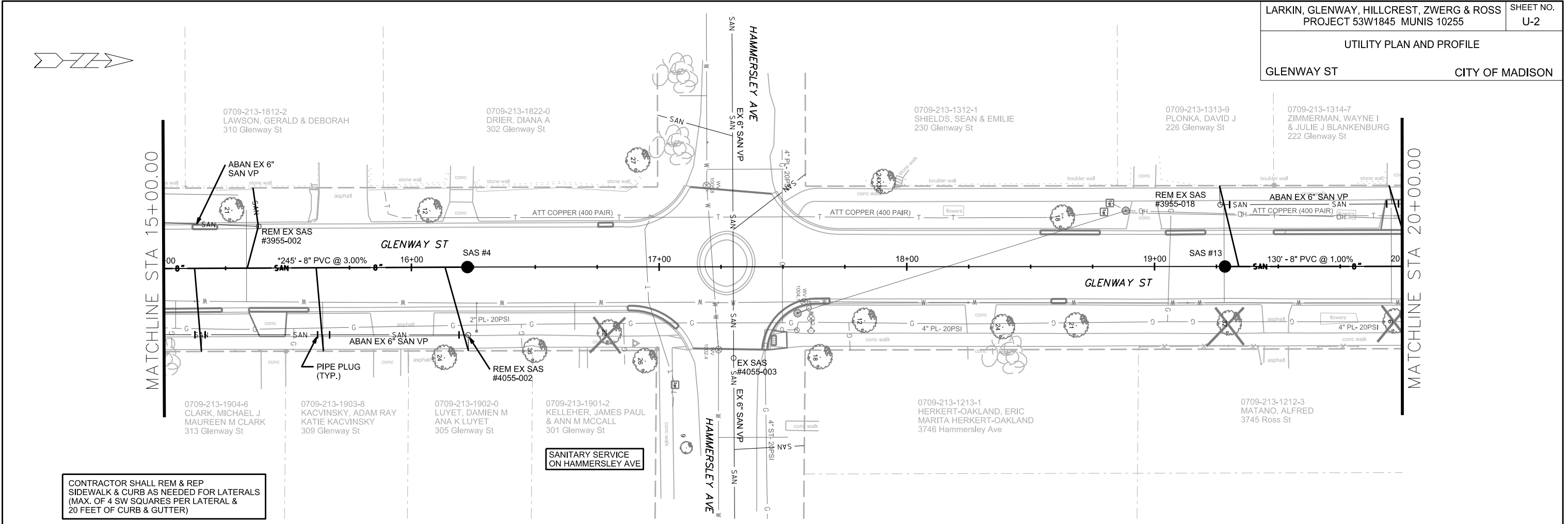


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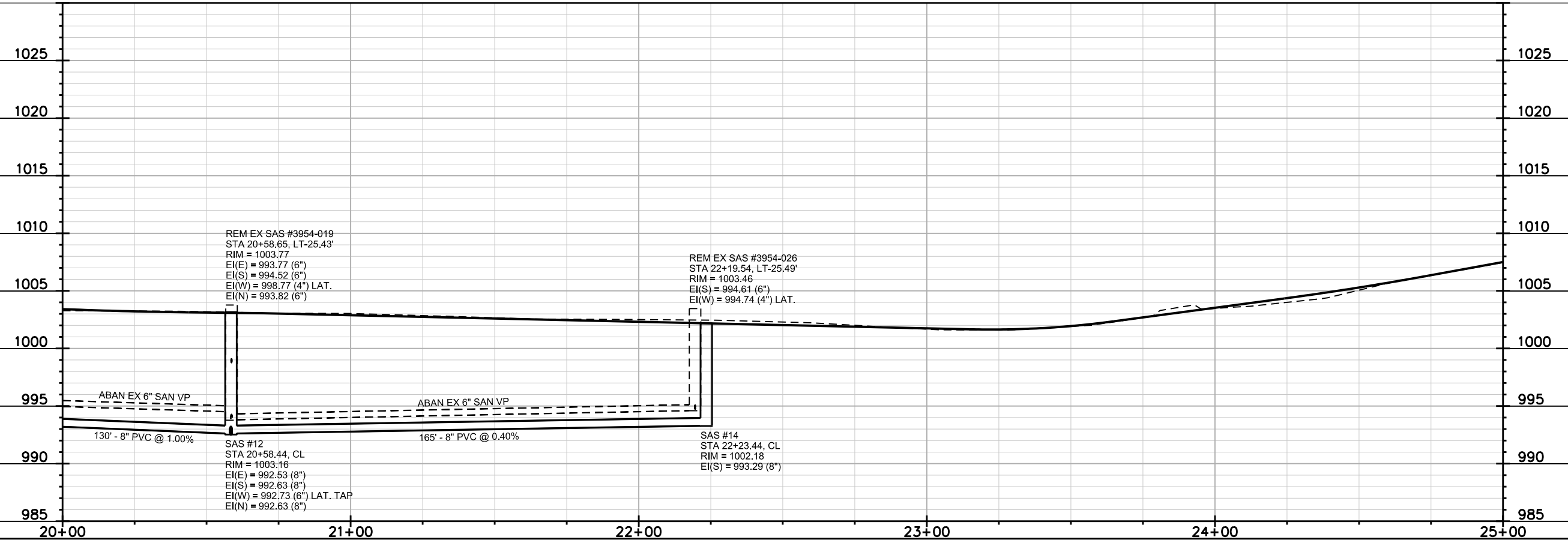
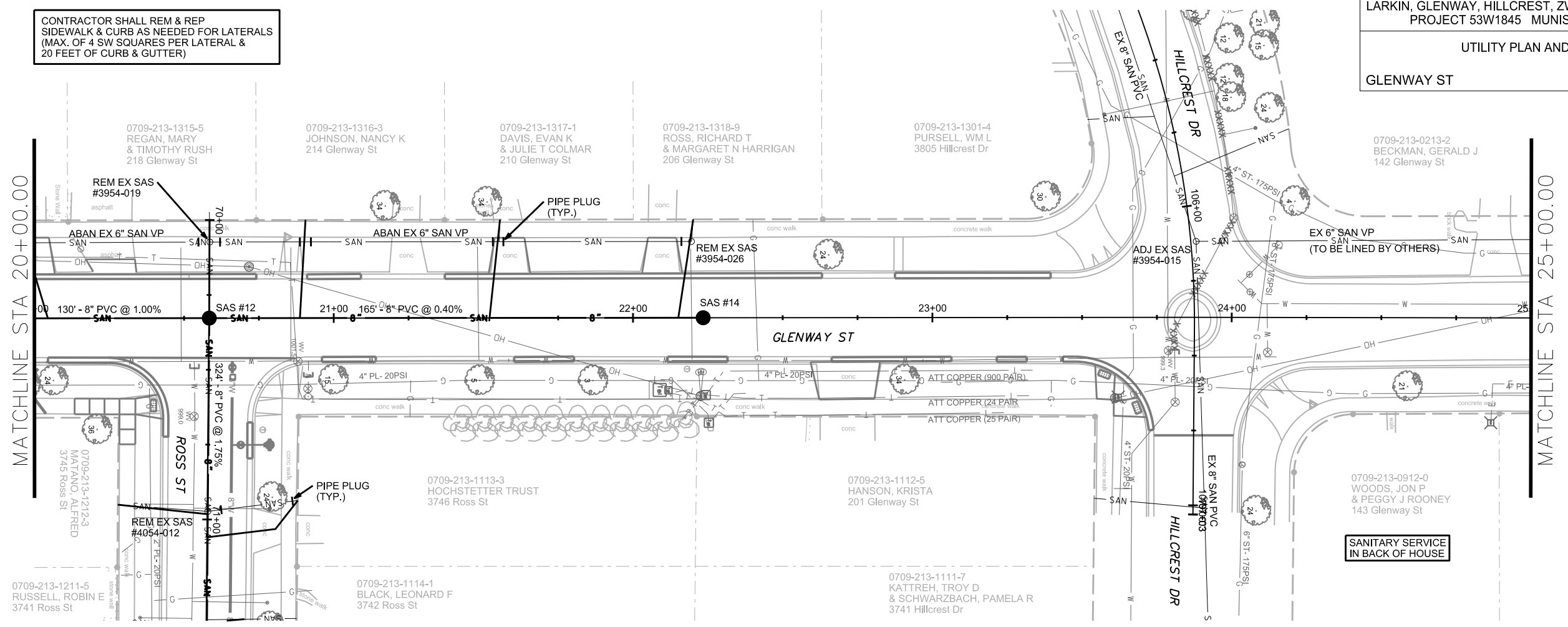
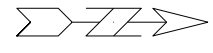
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP  
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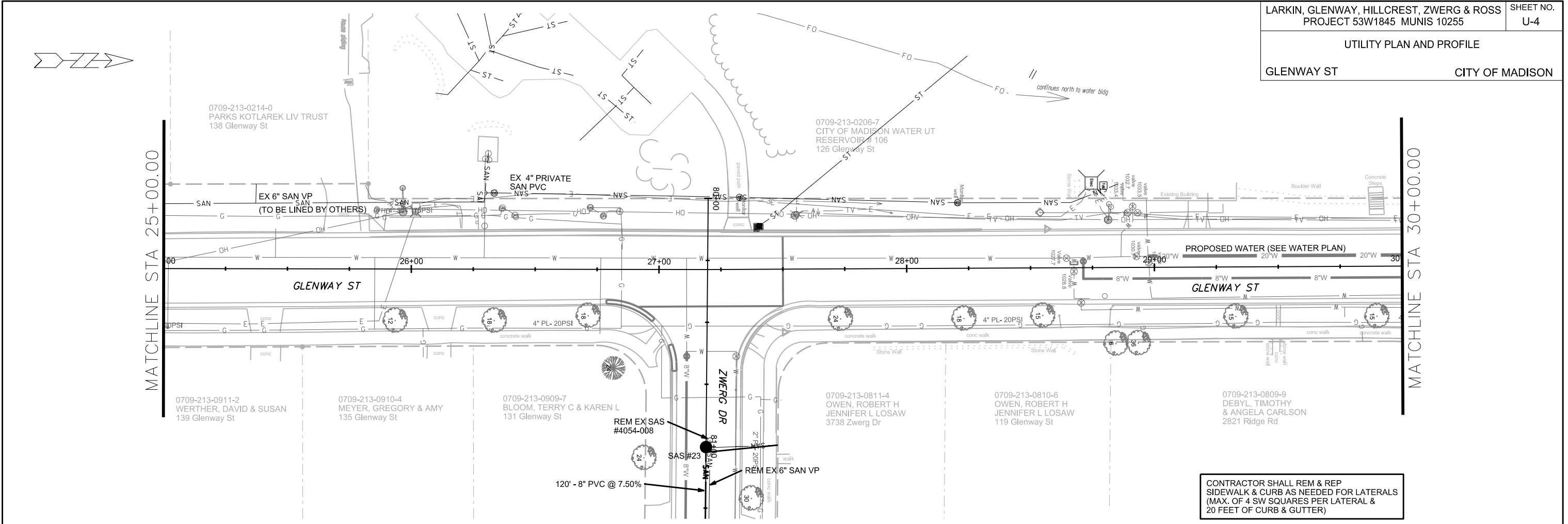
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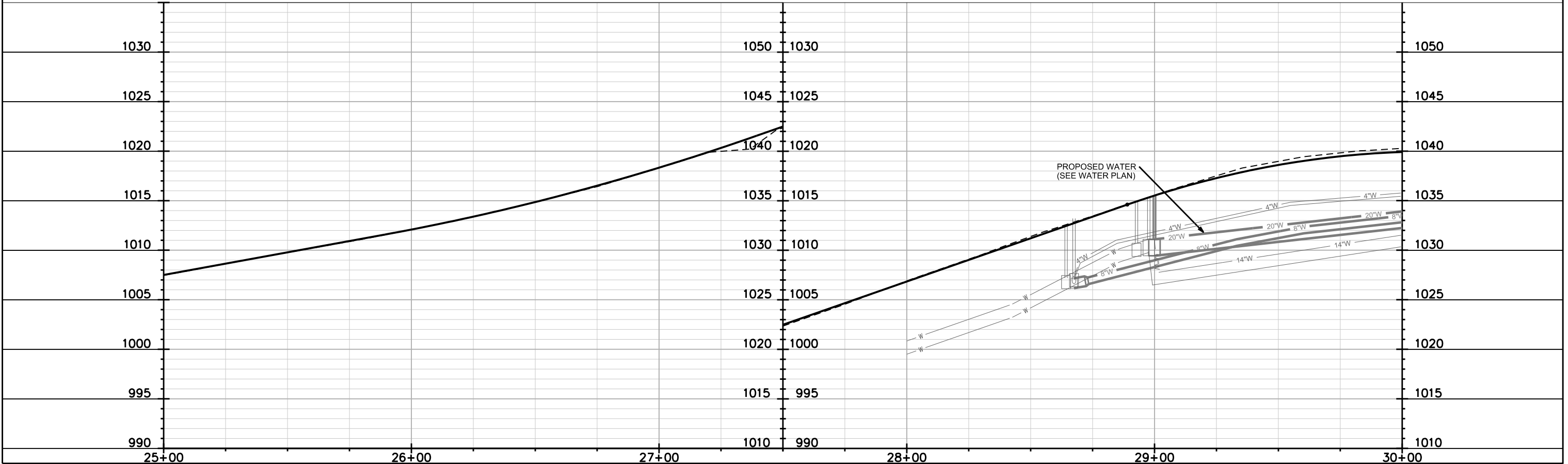
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE  
 GLENWAY ST CITY OF MADISON



CONTRACTOR SHALL REM & REP  
 SIDEWALK & CURB AS NEEDED FOR LATERALS  
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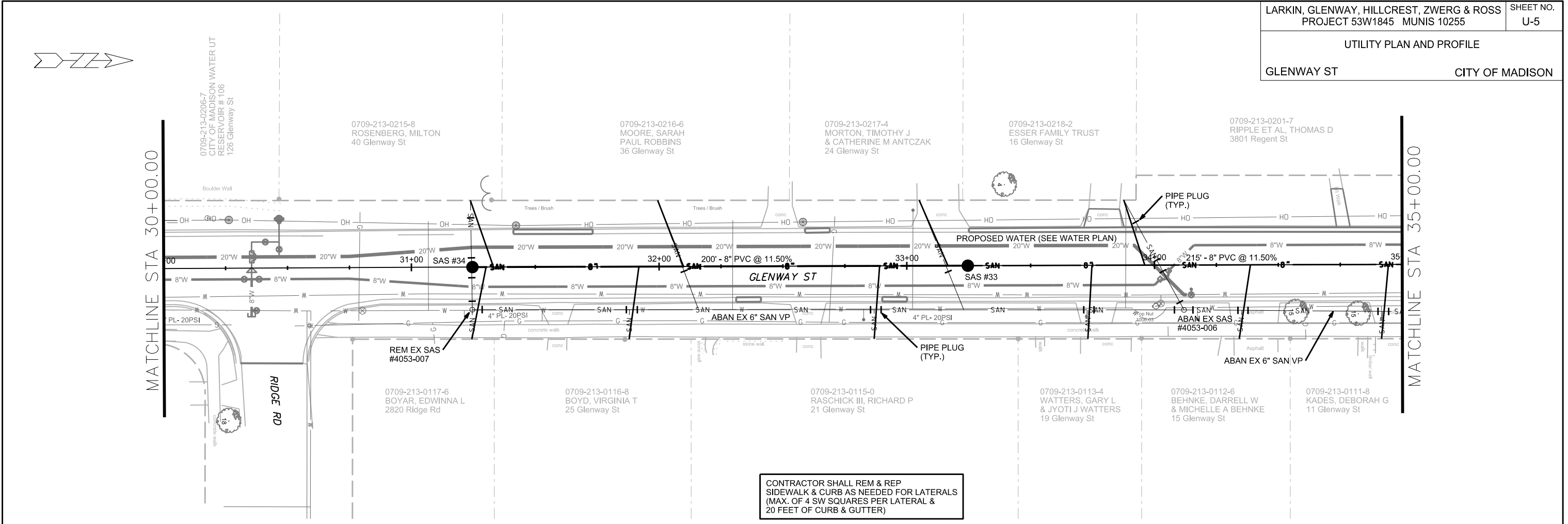


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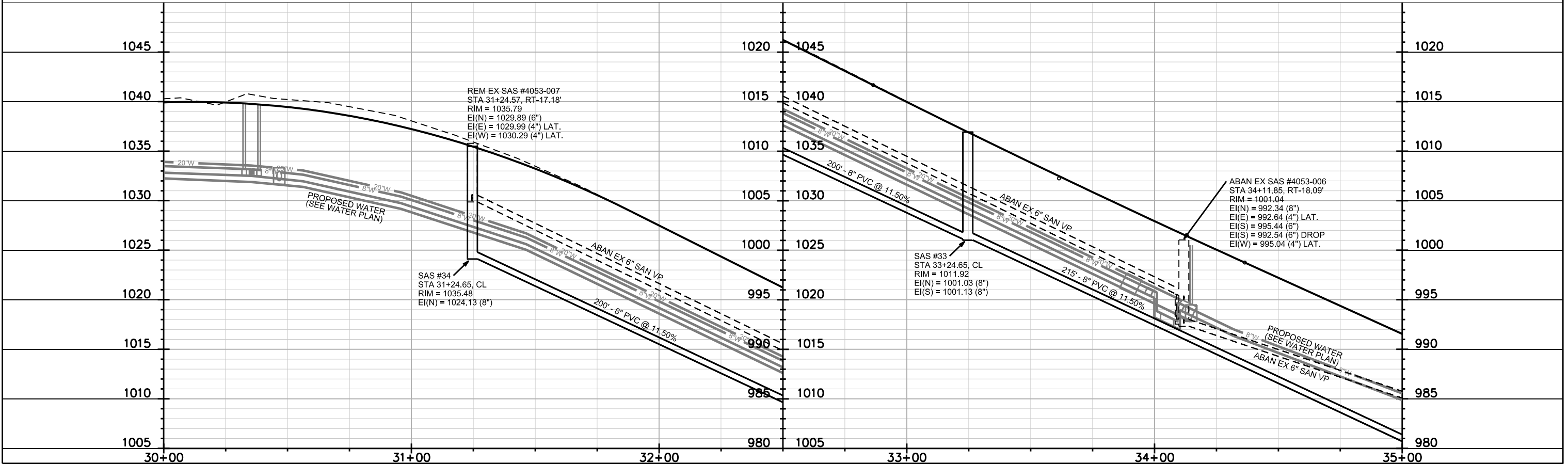
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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP  
 SIDEWALK & CURB AS NEEDED FOR LATERALS  
 (MAX. OF 4 SW SQUARES PER LATERAL &  
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PLOT SCALE:

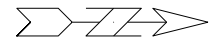
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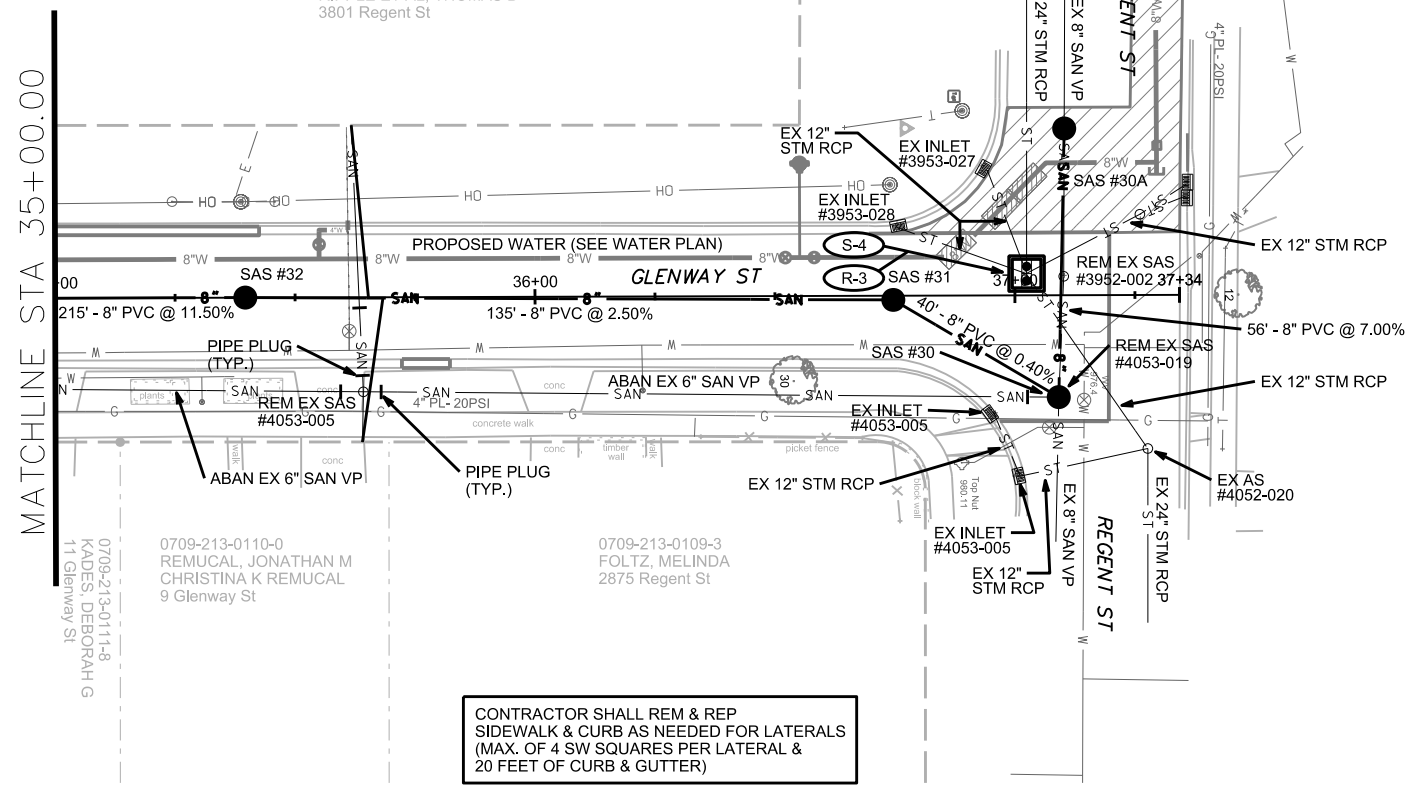
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

GLENWAY ST CITY OF MADISON



0709-213-0201-7  
RIPPLE ET AL, THOMAS D  
3801 Regent St



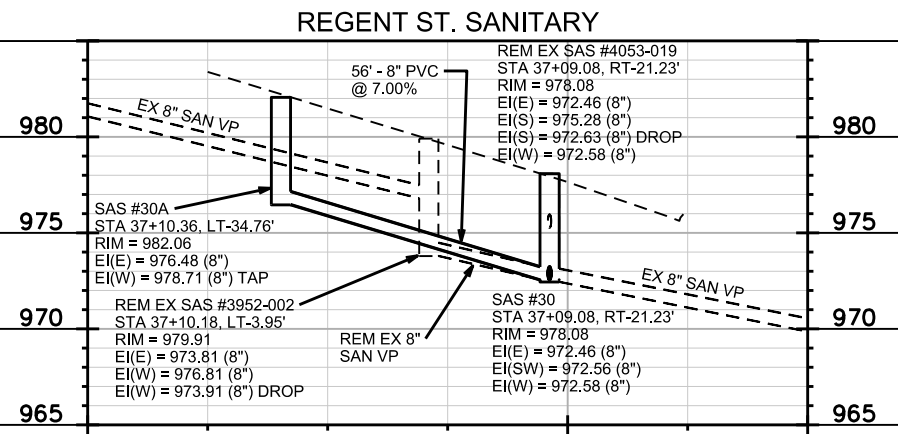
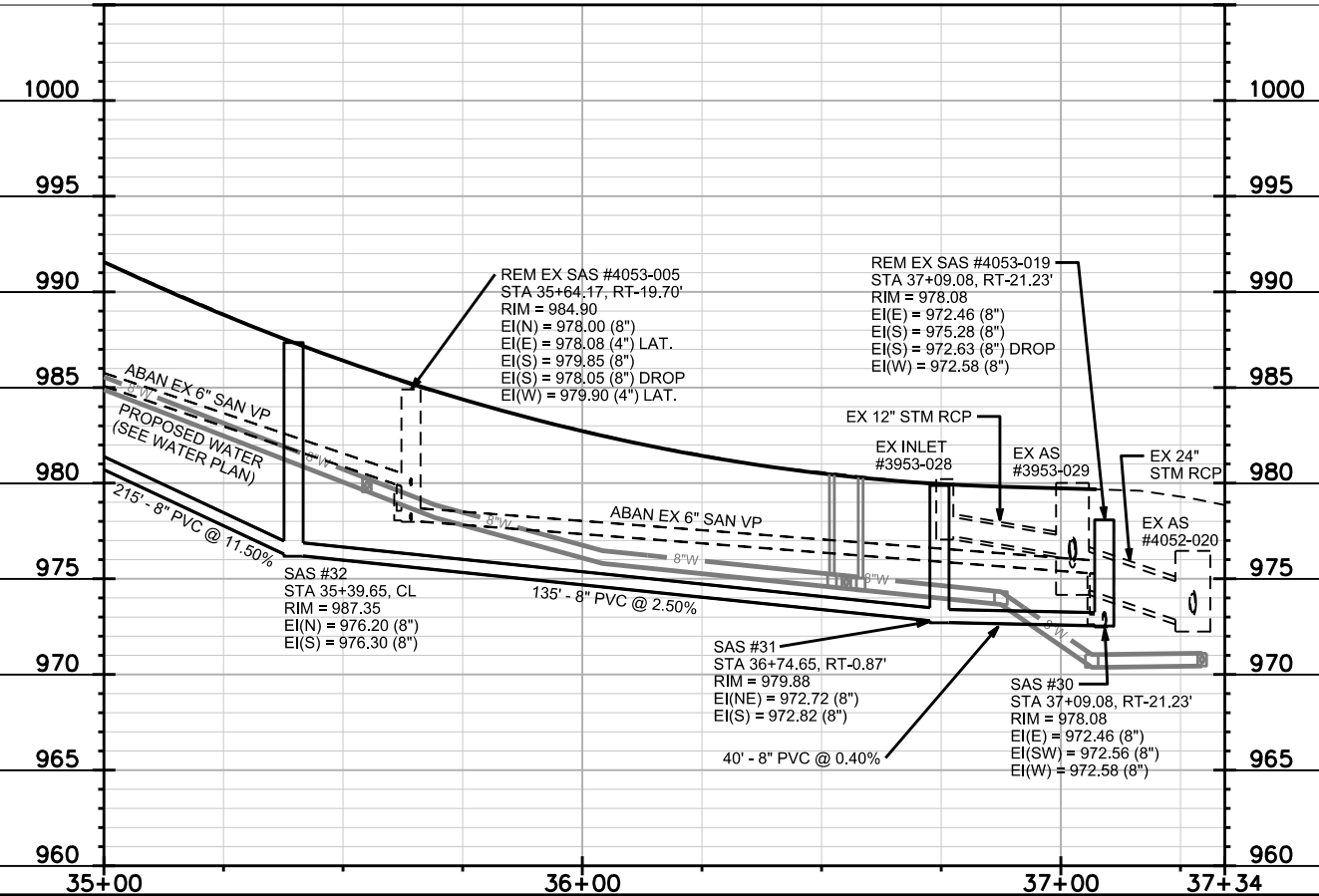
MATCHLINE STA 35+00.00

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REMUCAL, JONATHAN M  
CHRISTINA K REMUCAL  
9 Glenway St

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REMUCAL, JONATHAN M  
CHRISTINA K REMUCAL  
9 Glenway St

0709-213-0109-3  
FOLTZ, MELINDA  
2875 Regent St

CONTRACTOR SHALL REM & REP  
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20 FEET OF CURB & GUTTER)

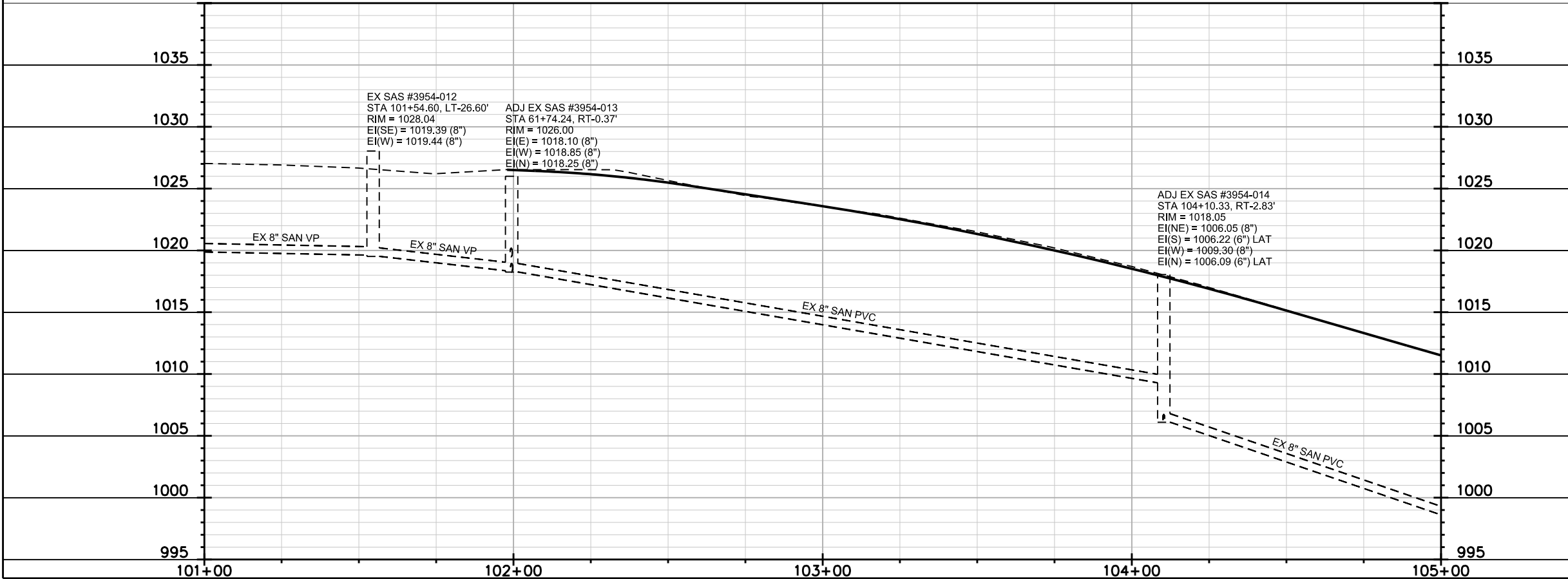
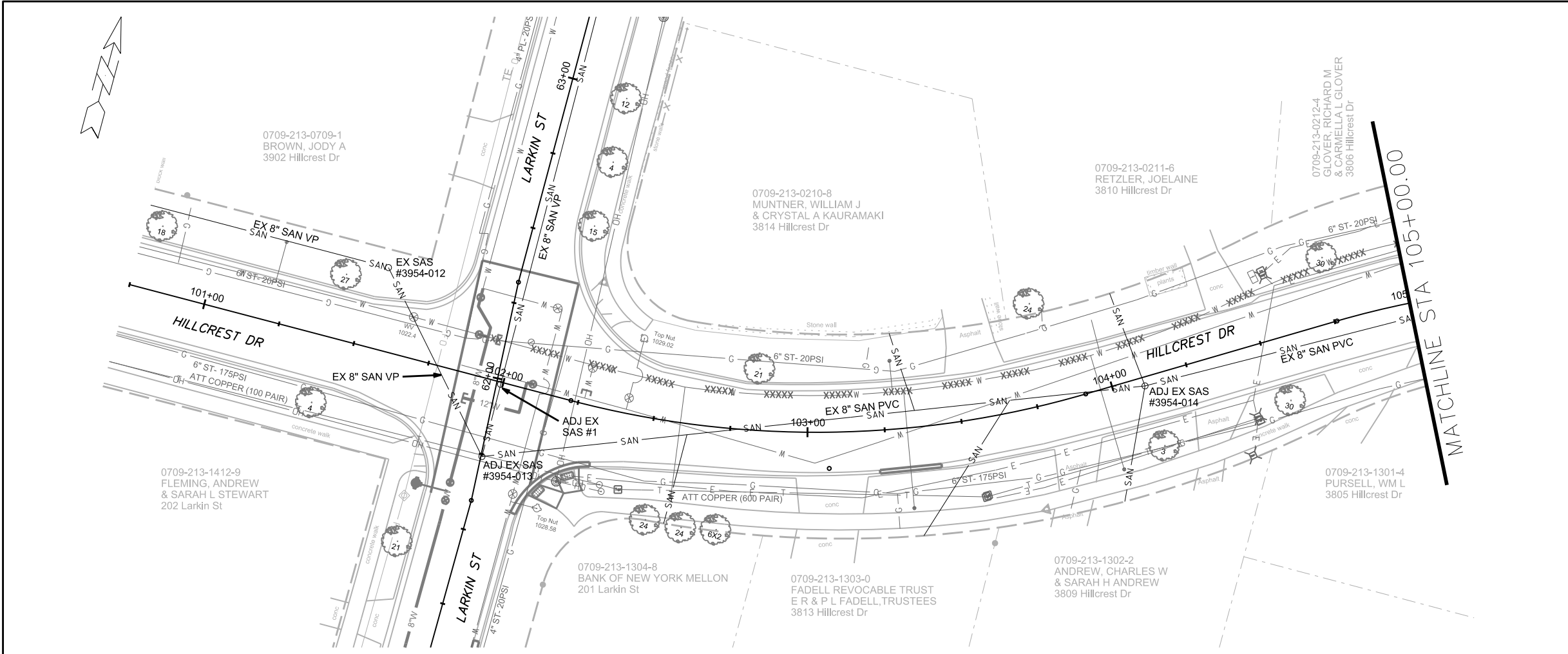


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

PLOT NAME:

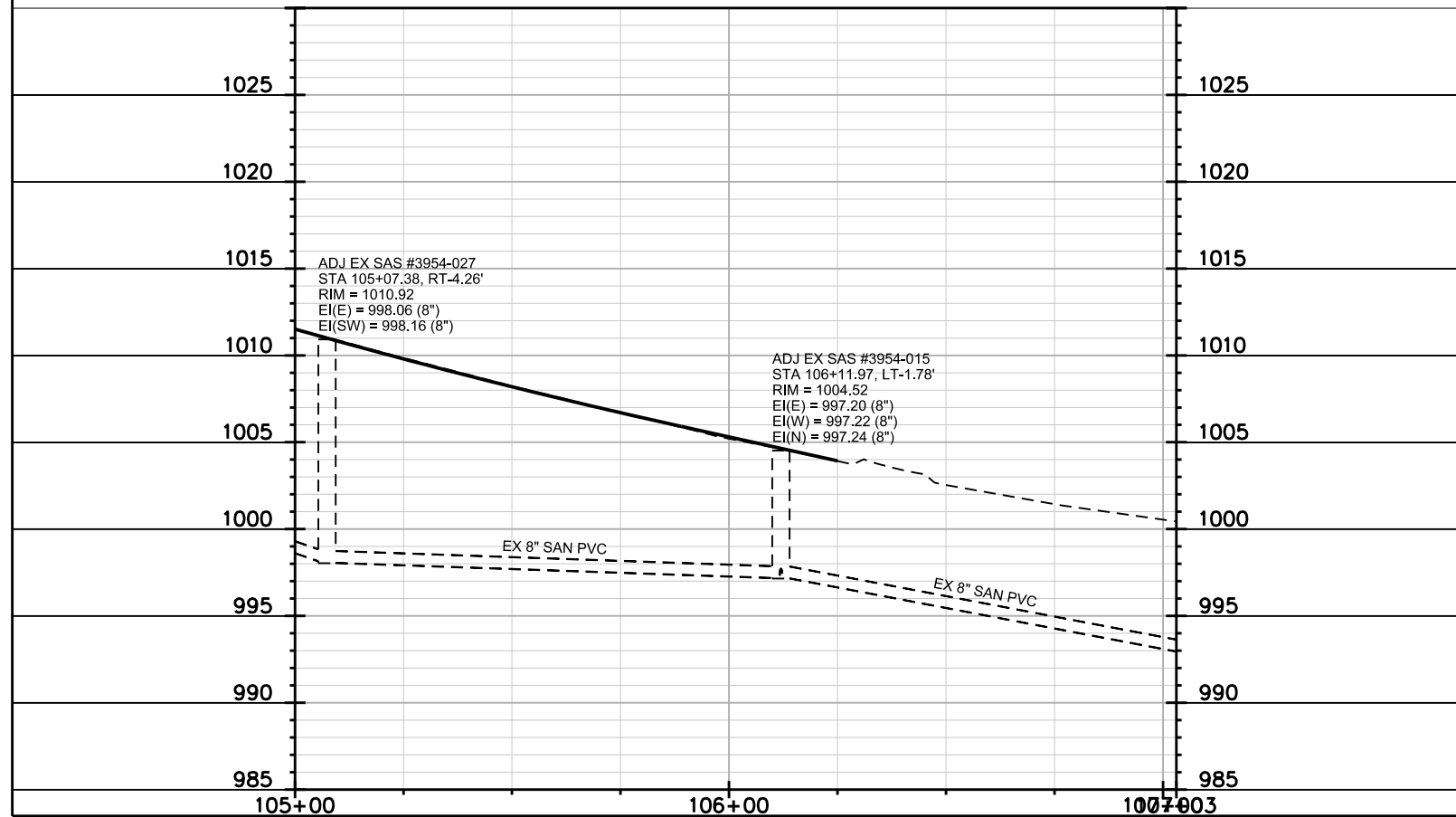
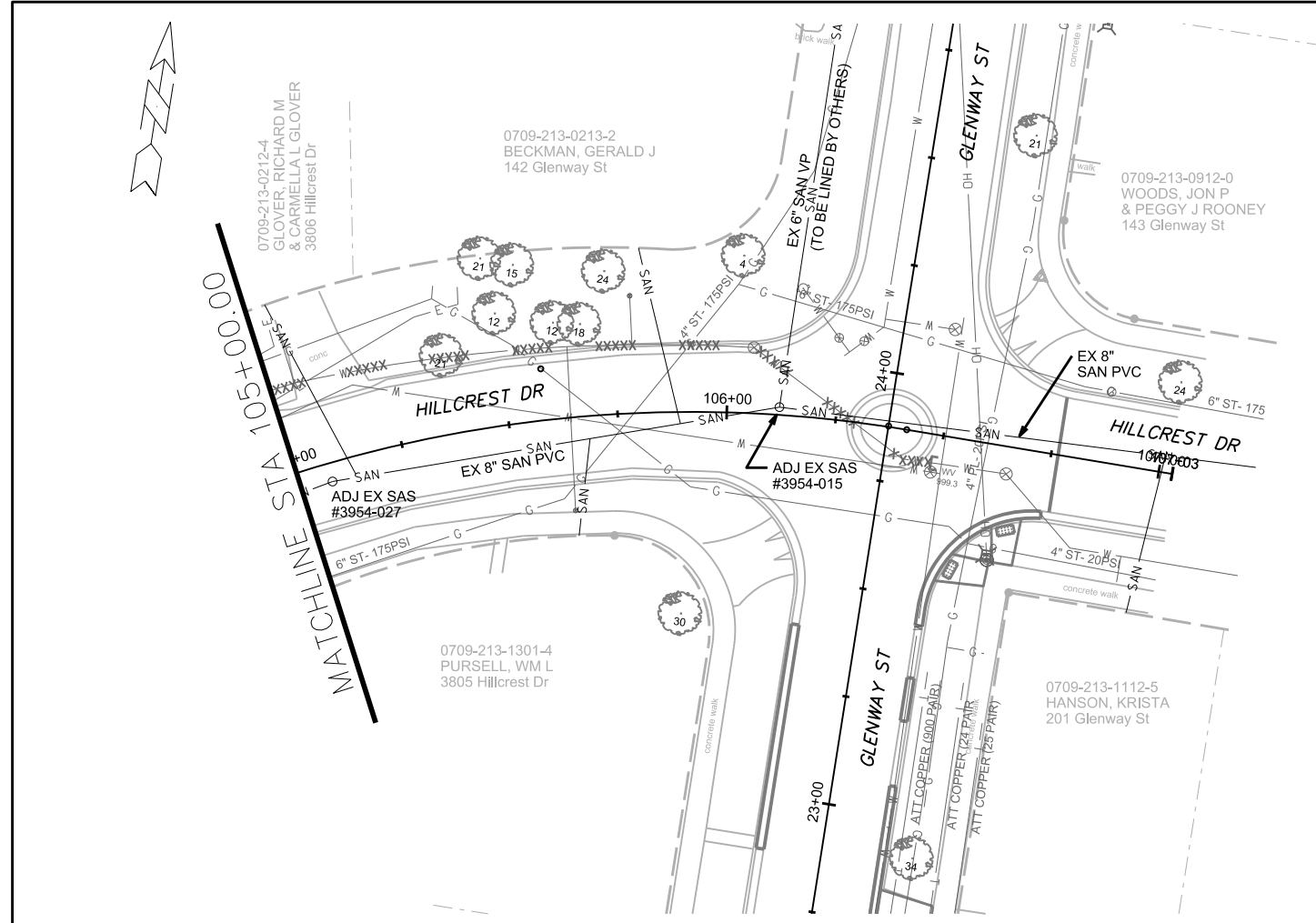
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

HILLCREST DR

CITY OF MADISON



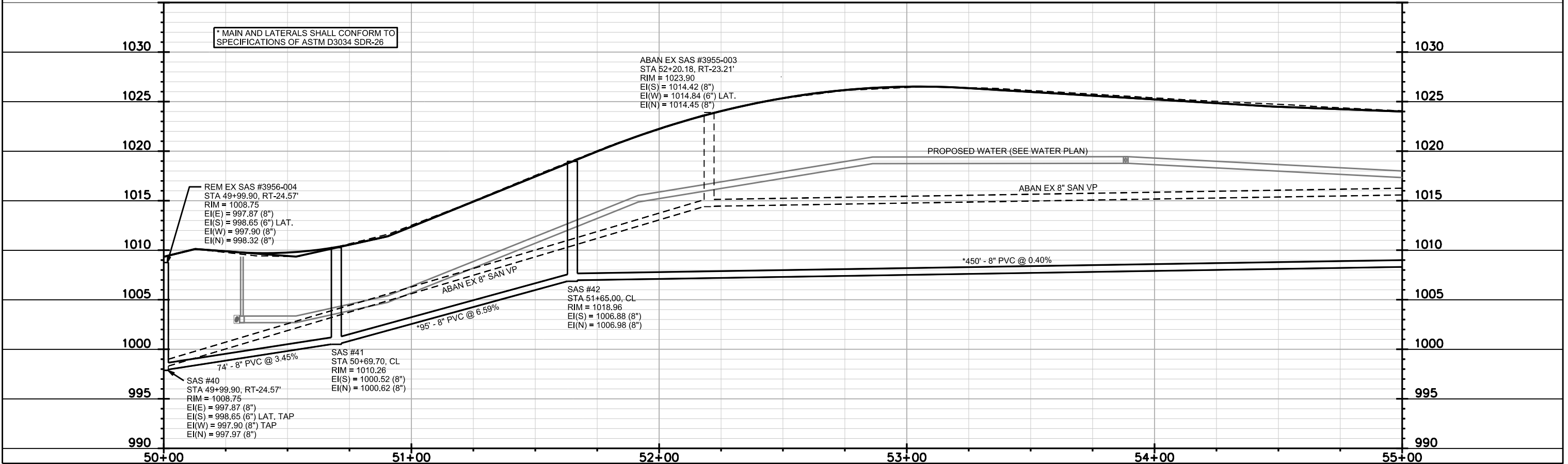
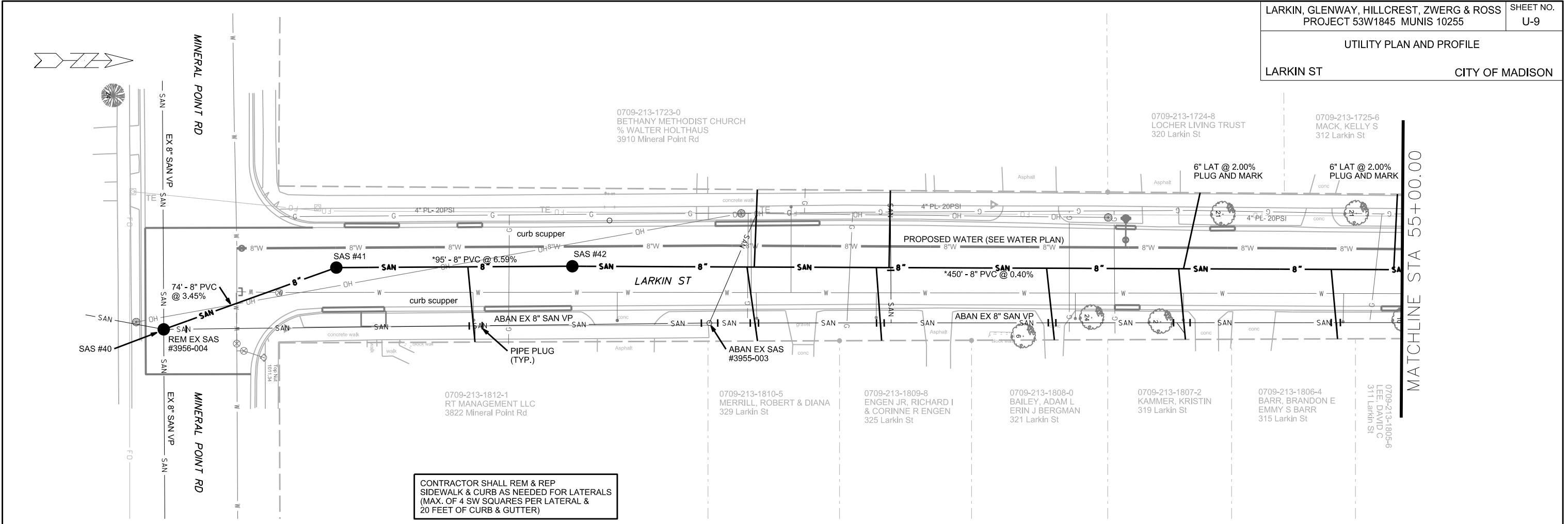
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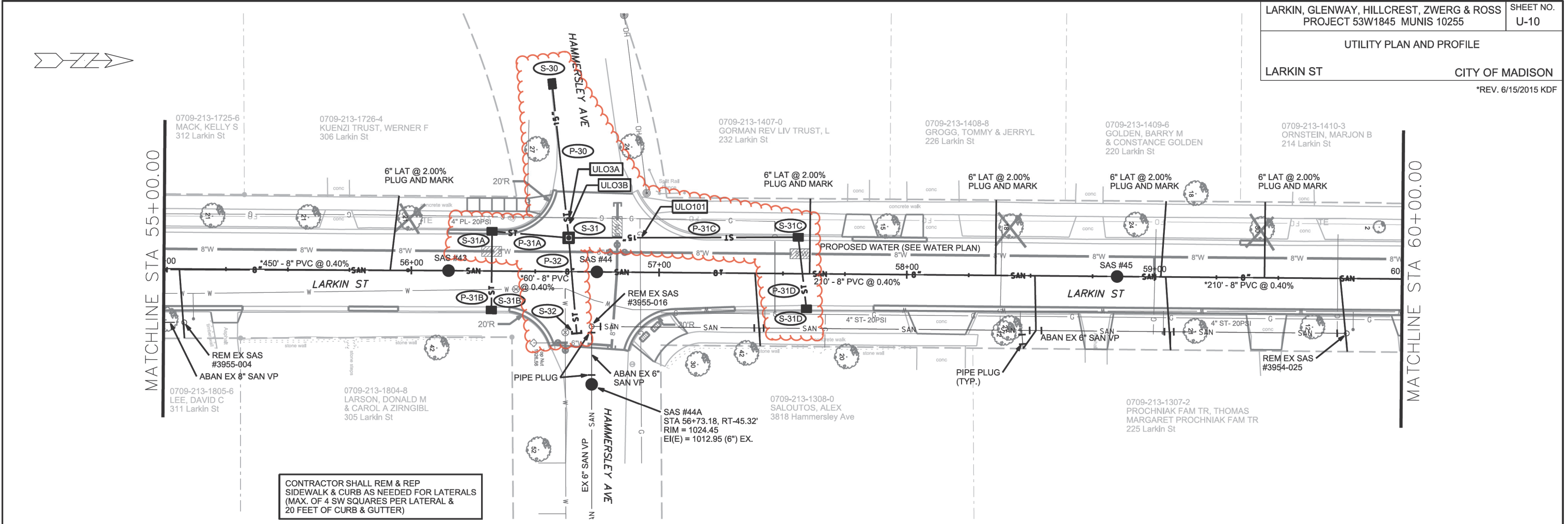
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

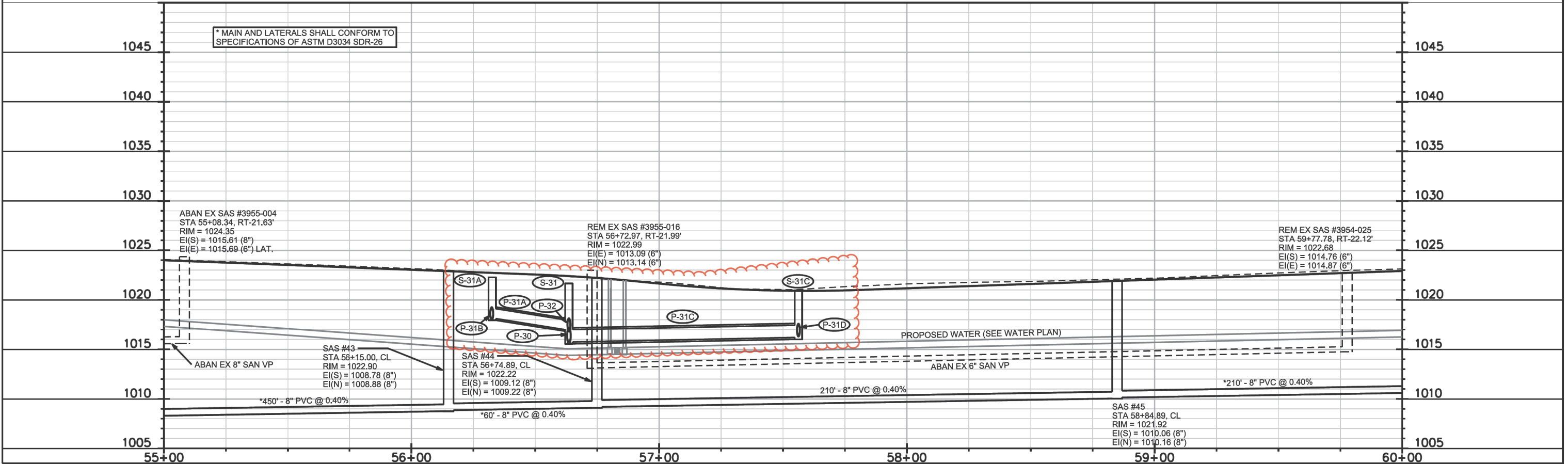




UTILITY PLAN AND PROFILE



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)



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

ABAN EX SAS #3955-004  
STA 55+08.34, RT-21.63'  
RIM = 1024.35  
EI(S) = 1015.61 (8")  
EI(E) = 1015.69 (6") LAT.

REM EX SAS #3955-016  
STA 56+72.97, RT-21.99'  
RIM = 1022.99  
EI(E) = 1013.09 (6")  
EI(N) = 1013.14 (6")

REM EX SAS #3954-025  
STA 59+77.78, RT-22.12'  
RIM = 1022.68  
EI(S) = 1014.76 (6")  
EI(E) = 1014.87 (6")

SAS #43  
STA 56+15.00, CL  
RIM = 1022.90  
EI(S) = 1008.78 (8")  
EI(N) = 1008.88 (8")

SAS #44  
STA 56+74.89, CL  
RIM = 1022.22  
EI(S) = 1009.12 (8")  
EI(N) = 1009.22 (8")

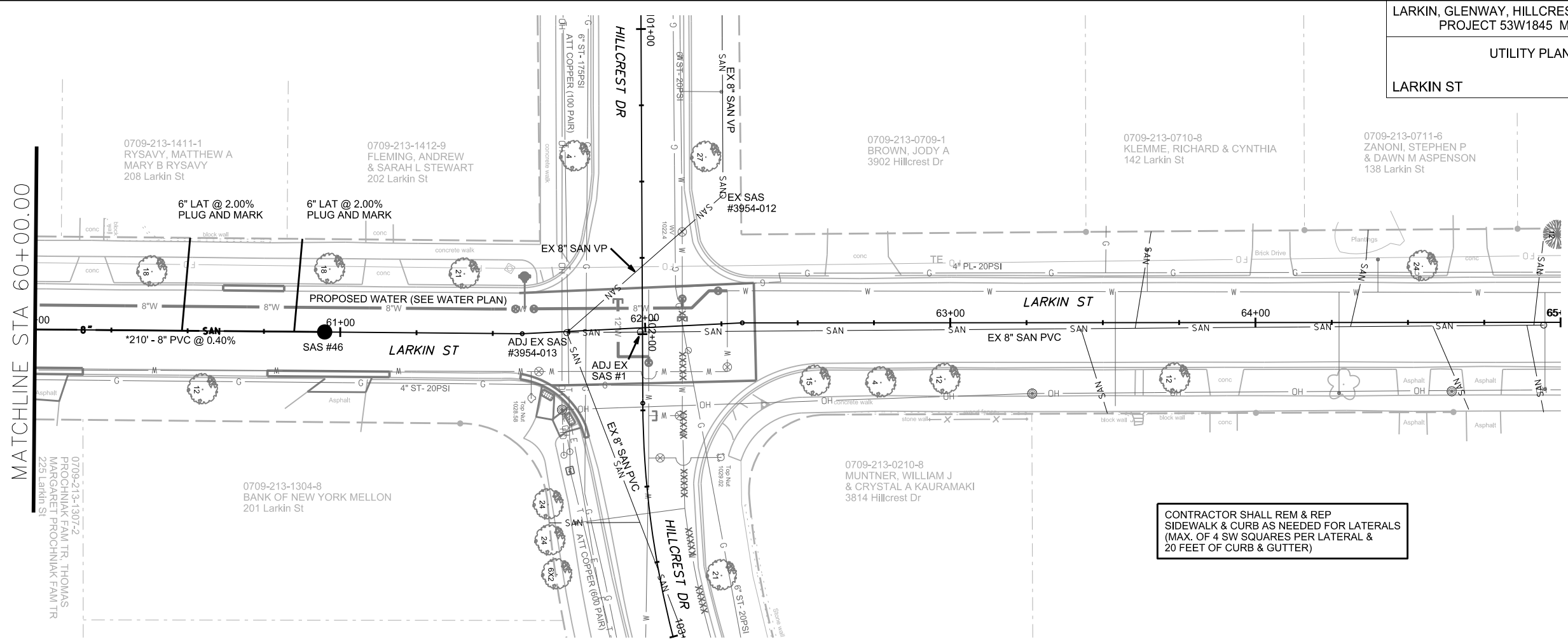
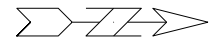
SAS #45  
STA 58+84.89, CL  
RIM = 1021.92  
EI(S) = 1010.06 (8")  
EI(N) = 1010.16 (8")

PLOT SCALE:

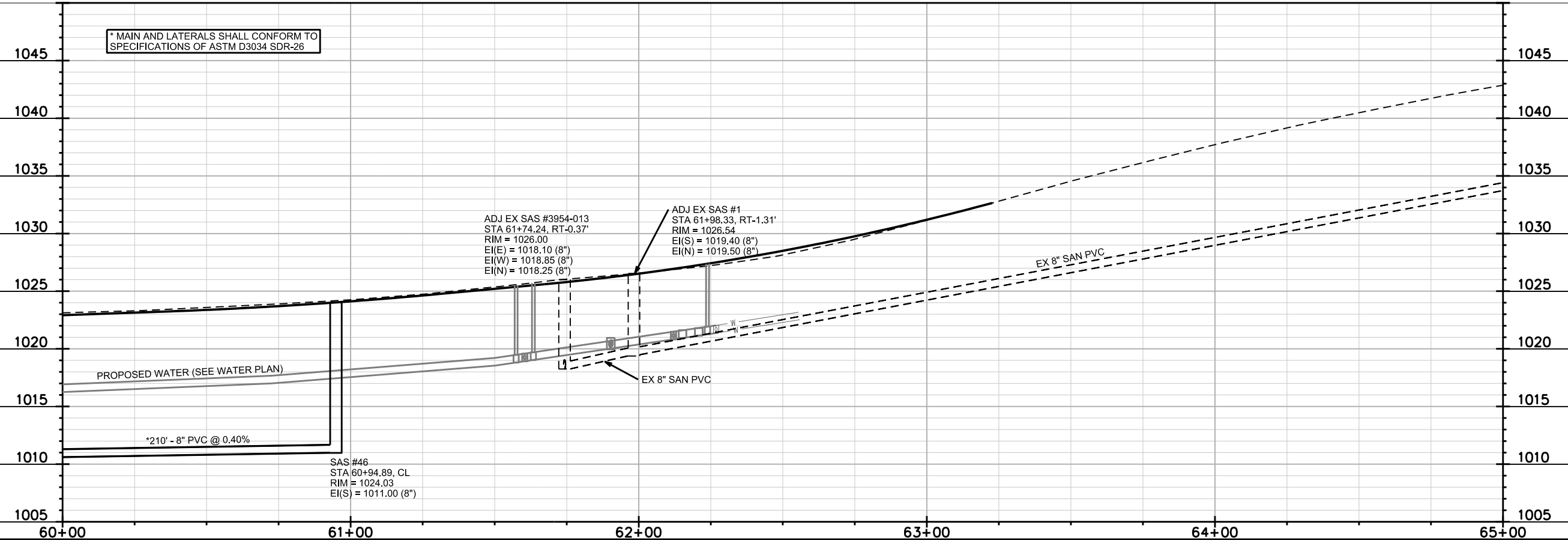
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP  
SIDEWALK & CURB AS NEEDED FOR LATERALS  
(MAX. OF 4 SW SQUARES PER LATERAL &  
20 FEET OF CURB & GUTTER)



PLOT SCALE:

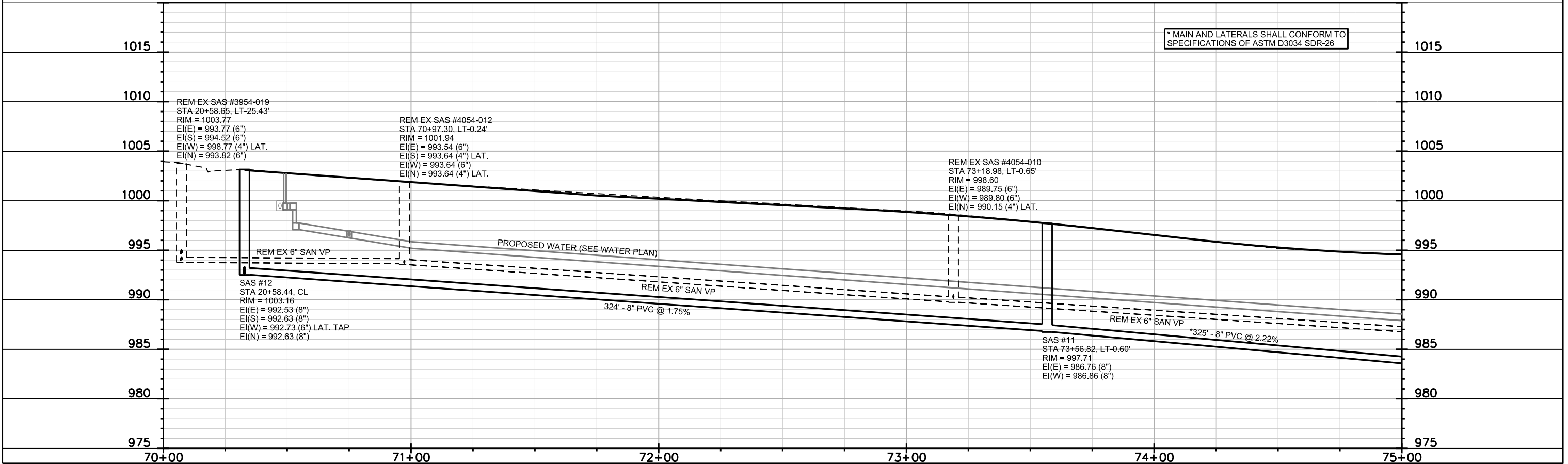
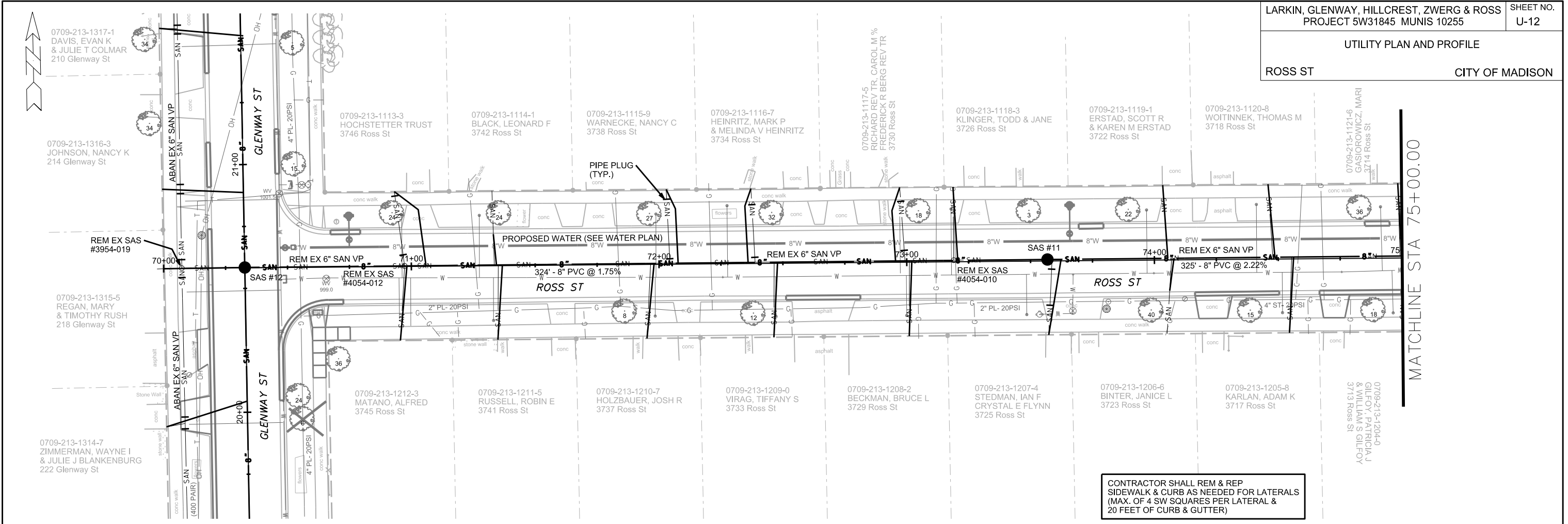
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

ROSS ST CITY OF MADISON

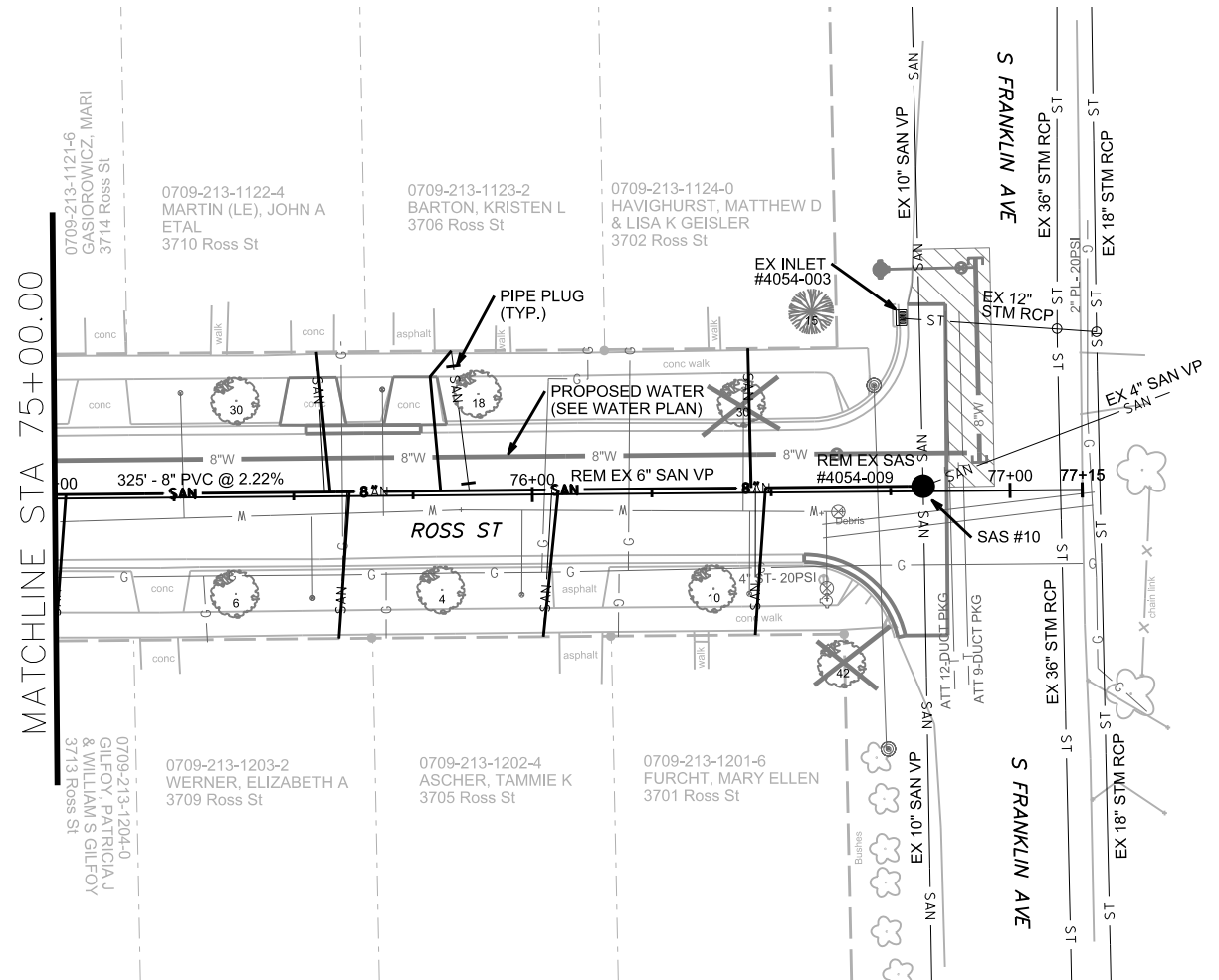
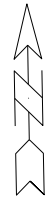


PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION

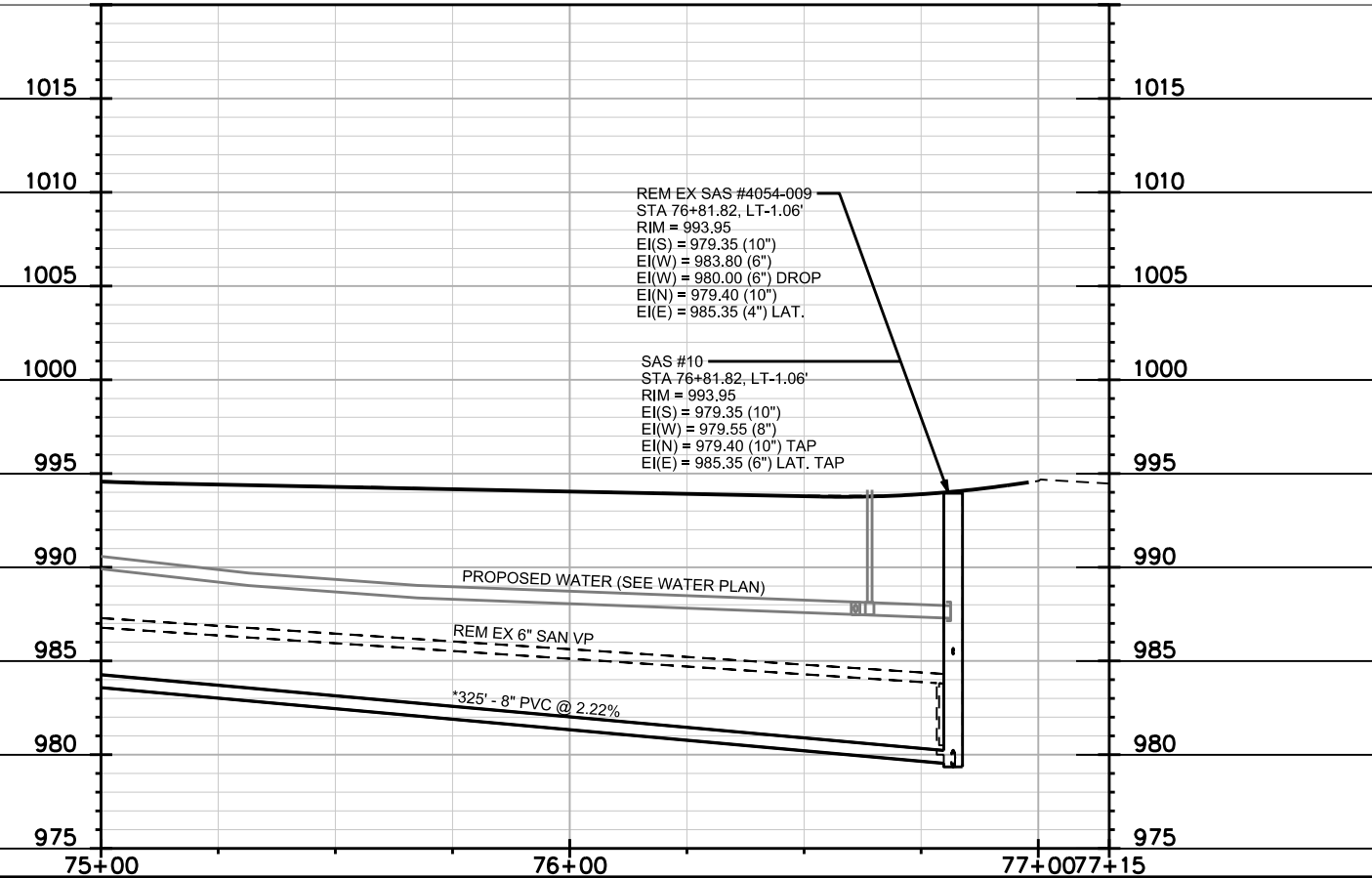
UTILITY PLAN AND PROFILE

ROSS ST

CITY OF MADISON



CONTRACTOR SHALL REM & REP  
SIDEWALK & CURB AS NEEDED FOR LATERALS  
(MAX. OF 4 SW SQUARES PER LATERAL &  
20 FEET OF CURB & GUTTER)



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

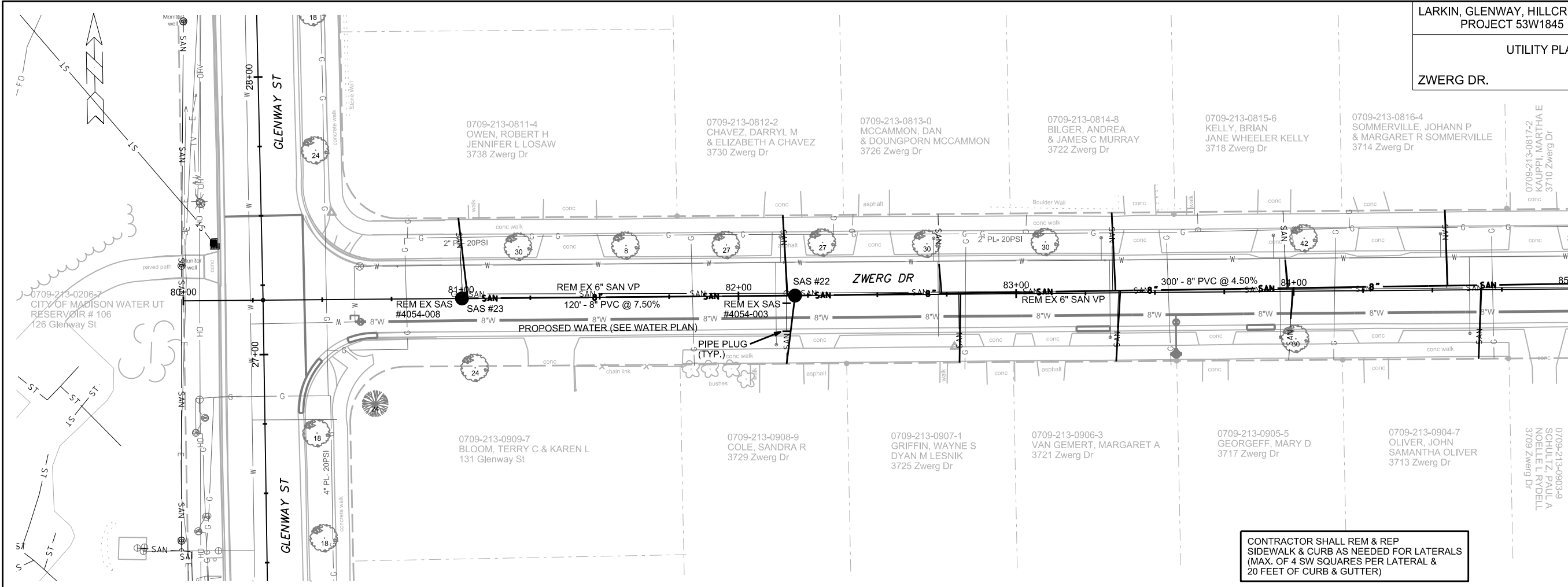
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PLOT NAME:

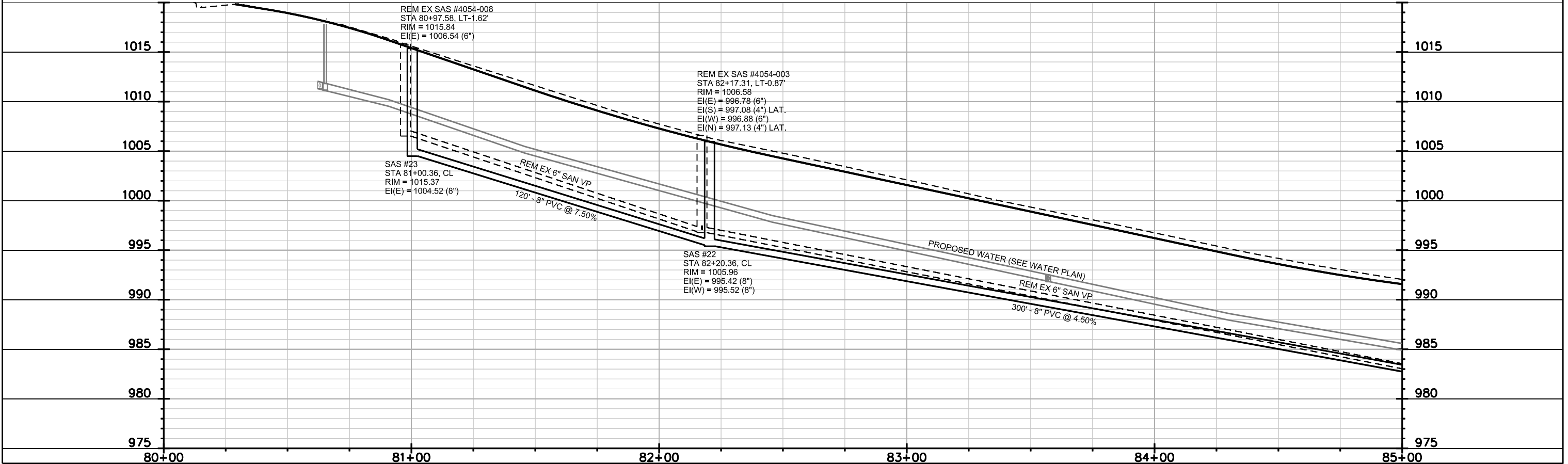
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE  
ZWERG DR. CITY OF MADISON



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)

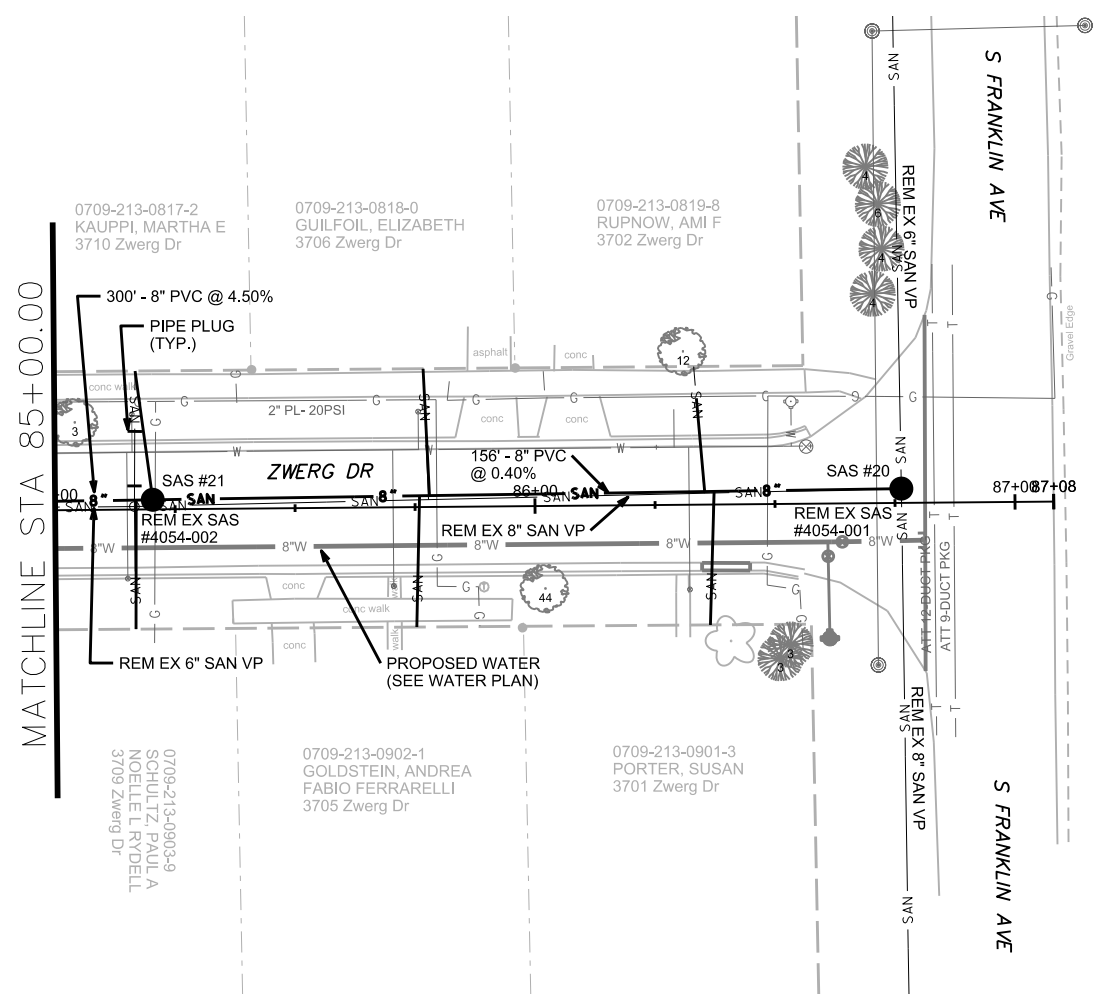
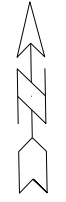


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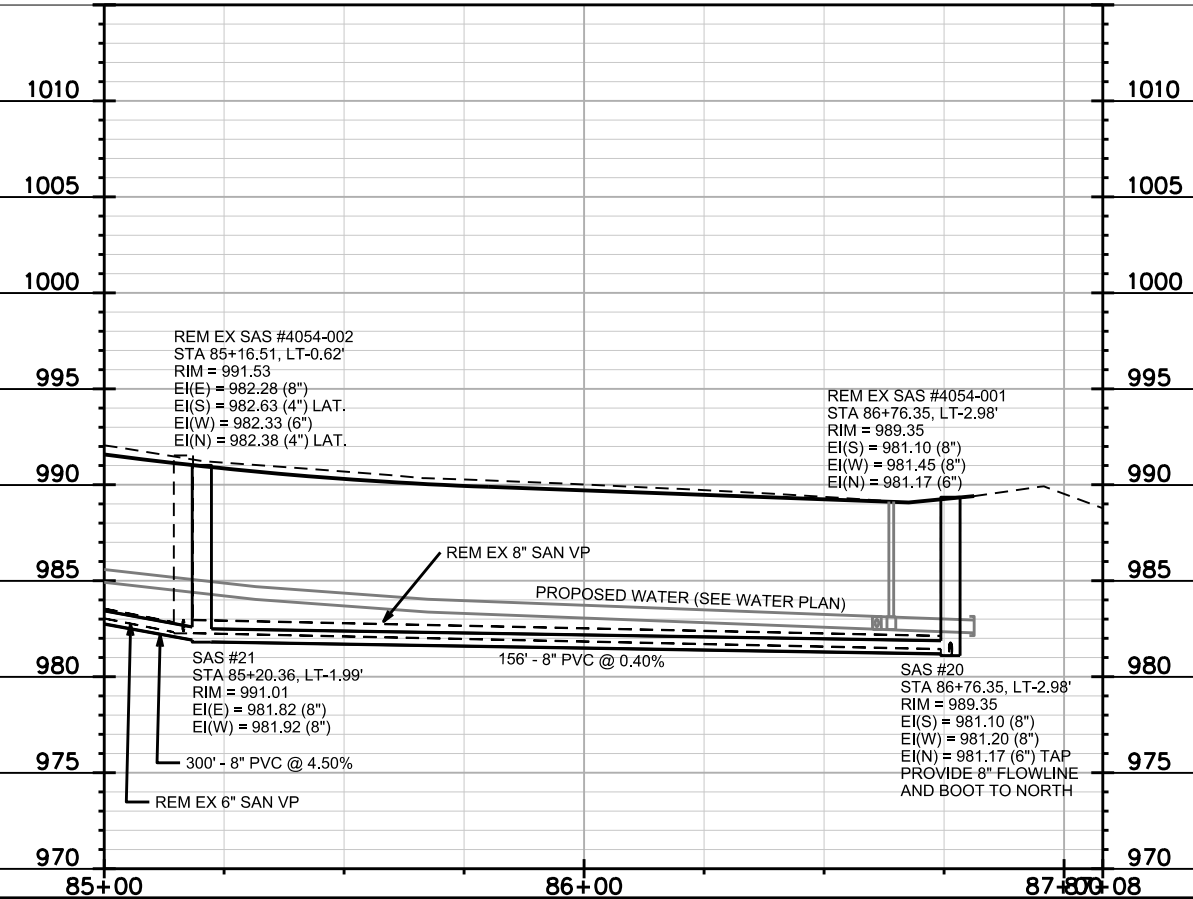
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SANITARY SEWER SCHEDULE

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GLENWAY ST</b>						
SAS #1	11+02.23	RT-19.05	990.94	976.95	13.99	-
SAS #2	11+27.62	CL	991.50	978.55	12.95	-
SAS #3	13+77.62	CL	1002.83	990.52	12.31	-
SAS #4	16+22.62	CL	1008.16	997.97	10.19	-
SAS #12	20+58.44	CL	1003.16	992.53	10.63	-
SAS #13	19+28.44	CL	1004.47	993.93	10.54	-
SAS #14	22+23.44	CL	1002.18	993.29	8.89	-
SAS #30	37+09.08	RT-21.23	978.08	972.46	5.62	-
SAS #30A	37+10.36	LT-34.76	982.06	976.48	5.58	-
SAS #31	36+74.65	RT-0.87	979.88	972.72	7.16	-
SAS #32	35+39.65	CL	987.35	976.20	11.15	-
SAS #33	33+24.65	CL	1011.92	1001.03	10.89	-
SAS #34	31+24.65	CL	1035.48	1024.13	11.35	-
<b>ROSS ST</b>						
SAS #10	76+81.82	LT-1.06	993.95	979.35	14.60	-
SAS #11	73+56.82	LT-0.60	997.71	986.76	10.95	-
<b>ZWERG DR</b>						
SAS #20	86+76.35	LT-2.98	989.35	981.10	8.25	-
SAS #21	85+20.36	LT-1.99	991.01	981.82	9.19	-
SAS #22	82+20.36	CL	1005.96	995.42	10.54	-
SAS #23	81+00.36	CL	1015.37	1004.52	10.85	-
<b>LARKIN ST</b>						
SAS #40	49+99.90	RT-24.57	1008.75	997.87	10.88	-
SAS #41	50+69.70	CL	1010.26	1000.52	9.74	-
SAS #42	51+65.00	CL	1018.96	1006.88	12.08	-
SAS #43	56+15.00	CL	1022.90	1008.78	14.12	-
SAS #44A	56+73.18	RT-45.32	1024.45	1012.95	11.50	-
SAS #44	56+74.89	CL	1022.22	1009.12	13.10	-
SAS #45	58+84.89	CL	1021.92	1010.06	11.86	-
SAS #46	60+94.89	CL	1024.03	1011.00	13.03	-

## SANITARY STRUCTURES ADJUSTMENTS

SAS NO.	STATION	LOCATION (OFFSET)	EX. RIM ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
<b>LARKIN ST</b>						
EX SAS #3954-013	61+74.24	RT-0.37	1026.00	1026.02	0.02	4X4 POURED-IN-PLACE, W/ 6" OF EX. ADJUSTMENT
<b>HILLCREST DR</b>						
EX SAS #1	101+99.27	RT-0.71	1026.54	1026.51	-0.03	-
EX SAS #3954-014	104+10.33	RT-2.83	1018.05	1017.80	-0.25	4X4 POURED-IN-PLACE, W/ 5" OF EX. ADJUSTMENT
EX SAS #3954-027	105+07.38	RT-4.26	1010.92	1010.80	-0.12	-
EX SAS #3954-015	106+11.97	LT-1.78	1004.52	1004.60	0.08	4X4 POURED-IN-PLACE, W/ 14" OF EX. ADJUSTMENT

## SPECIFIC NOTES

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>GLENWAY ST</b>								
SAS #1	SAS #2	977.12	978.55	32	4.47%	8"	SDR-26	
SAS #2	SAS #3	978.65	990.52	250	4.75%	8"	SDR-26	
SAS #3	SAS #4	990.62	997.97	245	3.00%	8"	SDR-26	
SAS #12	SAS #13	992.63	993.93	130	1.00%	8"	SDR-35	
SAS #12	SAS #14	992.63	993.29	165	0.40%	8"	SDR-35	
SAS #30	SAS #30A	972.56	976.48	56	7.00%	8"	SDR-35	
SAS #30	SAS #31	972.56	972.72	40	0.40%	8"	SDR-35	
SAS #31	SAS #32	972.82	976.20	135	2.50%	8"	SDR-35	
SAS #32	SAS #33	976.30	1001.03	215	11.50%	8"	SDR-35	
SAS #33	SAS #34	1001.13	1024.13	200	11.50%	8"	SDR-35	
<b>ROSS ST</b>								
SAS #10	SAS #11	979.55	986.76	325	2.22%	8"	SDR-26	
SAS #11	SAS #12	986.86	992.53	324	1.75%	8"	SDR-35	
<b>ZWERG DR</b>								
SAS #20	SAS #21	981.20	981.82	156	0.40%	8"	SDR-35	
SAS #21	SAS #22	981.92	995.42	300	4.50%	8"	SDR-35	
SAS #22	SAS #23	995.52	1004.52	120	7.50%	8"	SDR-35	
<b>LARKIN ST</b>								
SAS #40	SAS #41	997.97	1000.52	74	3.45%	8"	SDR-35	
SAS #41	SAS #42	1000.62	1006.88	95	6.59%	8"	SDR-26	
SAS #42	SAS #43	1006.98	1008.78	450	0.40%	8"	SDR-26	
SAS #43	SAS #44	1008.88	1009.12	60	0.40%	8"	SDR-26	
SAS #44	SAS #45	1009.22	1010.06	210	0.40%	8"	SDR-26	
SAS #45	SAS #46	1010.16	1011.00	210	0.40%	8"	SDR-26	



# SANITARY SEWER SCHEDULE

## SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GLENWAY ST</b>						
EX SAS #3955-002	15+38.43	LT-16.85	1007.21	1001.51	5.70	-
EX SAS #3955-018	19+26.53	LT-24.94	1005.51	995.53	9.98	-
EX SAS #4055-001	13+07.09	RT-25.64	999.21	989.06	10.15	-
EX SAS #4055-002	16+22.80	RT-27.37	1007.81	999.71	8.10	-
EX SAS #3954-019	20+58.65	LT-25.43	1003.77	993.77	10.00	-
EX SAS #3954-026	22+19.54	LT-25.49	1003.46	994.61	8.85	-
EX SAS #4053-007	31+24.57	RT-17.18	1035.79	1029.89	5.90	-
EX SAS #4053-005	35+64.17	RT-19.70	984.90	978.00	6.90	-
EX SAS #4053-019	37+09.08	RT-21.23	978.08	972.46	5.62	-
EX SAS #3952-002	37+10.18	LT-3.95	979.91	973.81	6.10	-
<b>ROSS ST</b>						
EX SAS #4054-009	76+81.82	LT-1.06	993.95	979.35	14.60	-
EX SAS #4054-010	73+18.98	LT-0.65	998.60	989.75	8.85	-
EX SAS #4054-012	70+97.30	LT-0.24	1001.94	993.54	8.40	-
<b>ZWERG DR</b>						
EX SAS #4054-001	86+76.35	LT-2.98	989.35	981.10	8.25	-
EX SAS #4054-002	85+16.51	LT-0.62	991.53	982.28	9.25	-
EX SAS #4054-003	82+17.31	LT-0.87	1006.58	996.78	9.80	-
EX SAS #4054-008	80+97.58	LT-1.62	1015.84	1006.54	9.30	-
<b>LARKIN ST</b>						
EX SAS #3956-004	49+99.90	RT-24.57	1008.75	997.87	10.88	-
EX SAS #3955-004	55+08.34	RT-21.63	1024.35	1015.61	8.74	-
EX SAS #3955-016	56+72.97	RT-22.00	1022.99	1013.09	9.90	-
EX SAS #3954-025	59+77.78	RT-22.12	1022.68	1014.76	7.92	-

## SANITARY STRUCTURE ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GLENWAY ST</b>						
EX SAS #3955-001	12+95.91	LT-23.31	999.1	988.65	10.45	-
EX SAS #3955-021	14+70.21	LT-19.74	1006.56	1001.15	5.41	-
EX SAS #4053-006	34+11.85	RT-18.09	1001.04	992.34	8.70	-
<b>LARKIN ST</b>						
EX SAS #3955-003	5220.18	RT-23.21	1023.90	1014.42	9.48	-

## SPECIFIC NOTES

(1) PIPE PLUGS INCIDENTAL (LESS THAN 10")

## SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
<b>GLENWAY ST</b>						
EX SAS #3955-001	EX SAS #4055-001	46	VP	6"	Y	-
EX SAS #4053-019	SAS #30A	41	VP	8"	N	-
<b>ROSS ST</b>						
EX SAS #4054-009	EX SAS #4054-010	359	VP	6"	N	-
EX SAS #4054-010	EX SAS #4054-012	218	VP	6"	N	-
EX SAS #4054-012	EX SAS #3954-019	86	VP	6"	N	-
<b>ZWERG DR</b>						
EX SAS #4054-001	EX SAS #4054-002	156	VP	8"	N	-
EX SAS #4054-002	EX SAS #4054-003	295	VP	6"	N	-
EX SAS #4054-003	EX SAS #4054-008	116	VP	6"	N	-

## SANITARY PIPE ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	NOTES
<b>GLENWAY ST</b>				
EX SAS #3956-005	EX SAS #3955-001	234	6"	(1)
EX SAS #3955-001	EX SAS #3955-021	171	6"	(1)
EX SAS #3955-021	EX SAS #3955-002	65	6"	(1)
EX SAS #4055-001	EX SAS #4055-002	312	6"	(1)
<b>LARKIN ST</b>				
EX SAS #3954-019	EX SAS #3955-018	128	6"	(1)
EX SAS #3954-019	EX SAS #3954-026	157	6"	(1)
EX SAS #4053-019	EX SAS #4053-005	141	8"	(1)
EX SAS #4053-005	EX SAS #4053-006	148	8"	(1)
EX SAS #4053-006	EX SAS #4053-007	283	6"	(1)
<b>LARKIN ST</b>				
EX SAS #3956-004	EX SAS #3955-003	216	8"	(1)
EX SAS #3955-003	EX SAS #3955-004	284	8"	(1)
SAS #43A	EX SAS #3955-016	17	6"	(1)
EX SAS #3955-016	EX SAS #3954-025	301	6"	(1)

# STORM SEWER SCHEDULE

\*REV. 6/15/2015 KDF

\*\*REV. 8/14/2015 KDF

LARKIN, GLENWAY, HILLCREST, ZWERG, & ROSS PROJECT 53W1845 MUNIS 10255	SHEET NO. U-18
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GLENWAY ST</b>							
<del>** S-1</del>	<del>11+01.70</del>	<del>LT-6.95</del>	<del>STORM TAP</del>	<del>985.80</del>			
** S-2	11+28.13	LT-18.31	H INLET	991.28	<b>988.25</b>	<b>3.03</b>	W/R-3067-7004-V
** S-3	11+52.08	RT-19.03	H INLET	991.42	<b>988.75</b>	<b>2.67</b>	W/R-3067-7004-V
** S-4	37+02.45	LT-4.52	<b>ADJ CATCHBASIN</b>	980.01	975.02	4.99	<b>W/TWIN R-1050-0054</b>
<b>LARKIN ST</b>							
* S-30	56+56.35	LT-75.75	H INLET	1019.09	<b>1014.56</b>	<b>4.53</b>	W/R-3067-7004-V
* S-31	<b>56+63.60</b>	<b>LT-13.62</b>	3X3 SAS	<b>1021.65</b>	<b>1015.75</b>	<b>5.90</b>	<b>W/R-1050-0054</b>
S-31A	56+32.62	LT-15.99	H INLET	1022.28	1018.12	4.16	W/R-3067-7004-V
S-31B	56+32.62	RT-15.72	H INLET	1023.35	1019.31	4.04	W/R-3067-7004-V
* S-31C	57+56.25	LT-14.67	H INLET	1020.96	<b>1016.20</b>	<b>4.76</b>	W/R-3067-7004-VB
* S-31D	57+59.79	RT-14.14	H INLET	1021.43	<b>1016.59</b>	<b>4.84</b>	W/R-3067-7004-VB
S-32	56+67.00	RT-25.19	PLUG	-	1017.76	-	(1)

## 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>GLENWAY ST</b>										
<del>** P-1</del>	<del>EX AS 4055-025</del>	<del>S-2</del>	<del>985.80</del>	<del>987.37</del>	<del>29</del>	<del>24</del>	<del>6.54%</del>	<del>12"</del>	<del>RCP</del>	<del>-</del>
** P-2	S-2	S-3	<b>988.50</b>	<b>988.75</b>	44.5	41.9	<b>0.60%</b>	12"	RCP	-
<b>LARKIN ST</b>										
* P-30	S-30	S-31	<b>1014.56</b>	<b>1015.75</b>	<b>62.5</b>	<b>59.5</b>	<b>2.00%</b>		15 RCP	-
* P-31A	S-31	S-31A	1017.00	1018.12	<b>31</b>	<b>28.1</b>	<b>3.99%</b>		12 RCP	-
P-31B	S-31A	S-31B	1018.12	1019.31	32	29.7	4.01%		15 RCP	-
* P-31C	S-31	S-31C	<b>1015.75</b>	<b>1016.20</b>	<b>93</b>	<b>89.7</b>	<b>0.50%</b>		15 RCP	-
* P-31D	S-31C	S-31D	<b>1016.45</b>	<b>1016.59</b>	29	27	0.52%		12 RCP	-
* P-32	S-31	S-32	1017.00	1017.76	<b>39</b>	<b>37.5</b>	<b>2.03%</b>		12 RCP	-

## REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>GLENWAY ST</b>					
R-1	IN 3955-003	11+27.70	LT-18.65	INLET	-
R-2	IN 4055-002	11+49.31	RT-21.05	INLET	-
R-3	AS 3953-029	37+02.45	LT-4.50	CATCHBASIN	-

## REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>GLENWAY ST</b>							
<del>** RP-1</del>	<del>S-1</del>	<del>R-1</del>	<del>24</del>	<del>12"</del>	<del>RCP</del>	<del>N</del>	<del>-</del>
RP-2	EX AS #4055-025	R-2	50	12"	RCP	Y	-

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
<b>GLENWAY ST</b>					
** ULO1	11+24.37	LT-17.06	TELEPHONE DUCT	<b>987.27</b>	<b>BTM=986.67</b>
** ULO2	11+32.56	LT-11.40	GAS	<b>988.22</b>	<b>4" STEEL, CONFLICT (STORM REVISED)</b>
<b>LARKIN ST</b>					
* ULO3A	<b>56+64.13</b>	<b>LT-21.02</b>	GAS	<b>1018.09</b>	<b>4" STEEL, CONFLICT (STORM REVISED)</b>
* ULO3B	<b>56+64.60</b>	<b>LT-17.70</b>	FIBER	<b>1019.00</b>	<b>3" PLASTIC, CONFLICT (STORM REVISED)</b>
* ULO101	<b>56+90.95</b>	<b>LT-15.00</b>	GAS	<b>1017.76</b>	<b>4" STEEL, CONFLICT (STORM REVISED)</b>

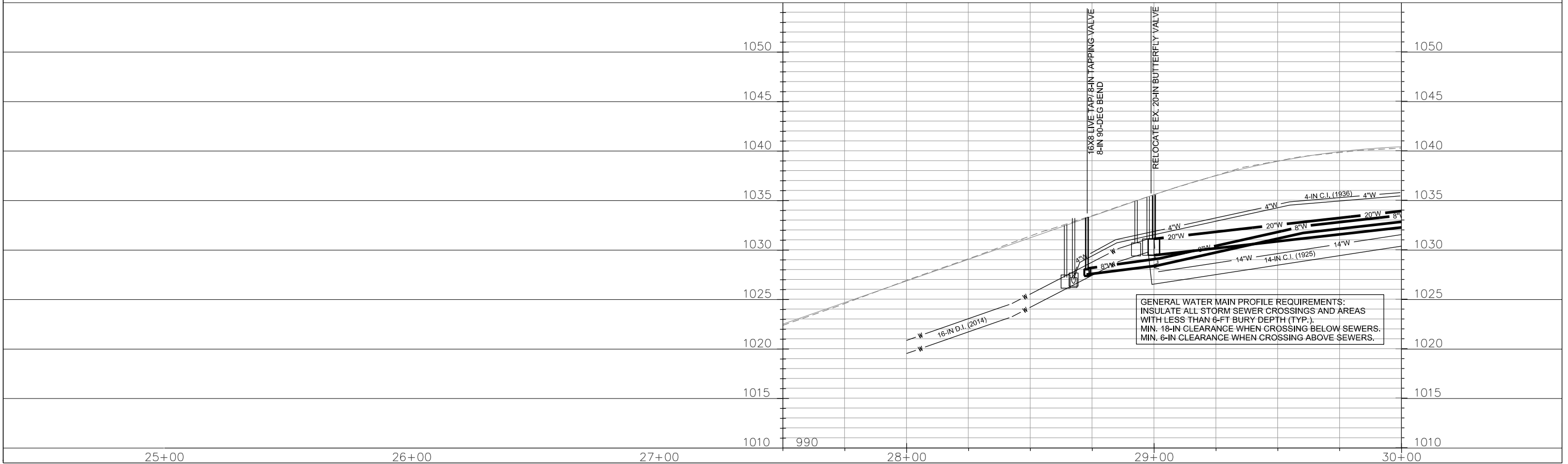
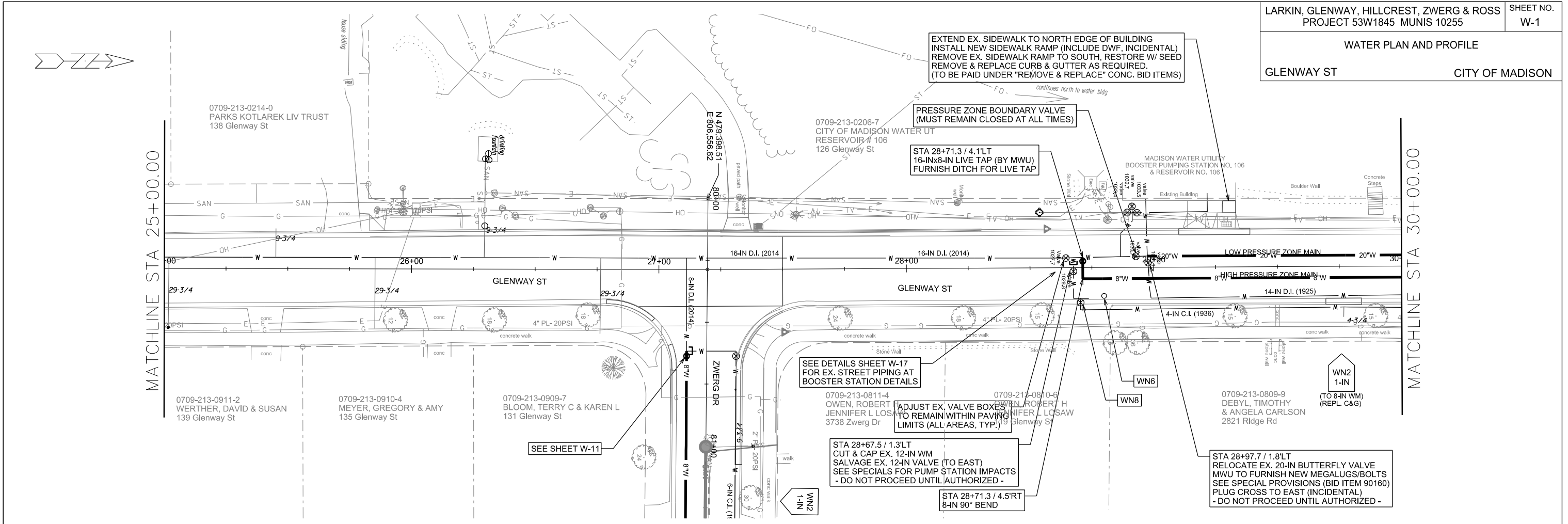
**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

## 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) PIPE PLUG PAID UNDER BID ITEM 20336

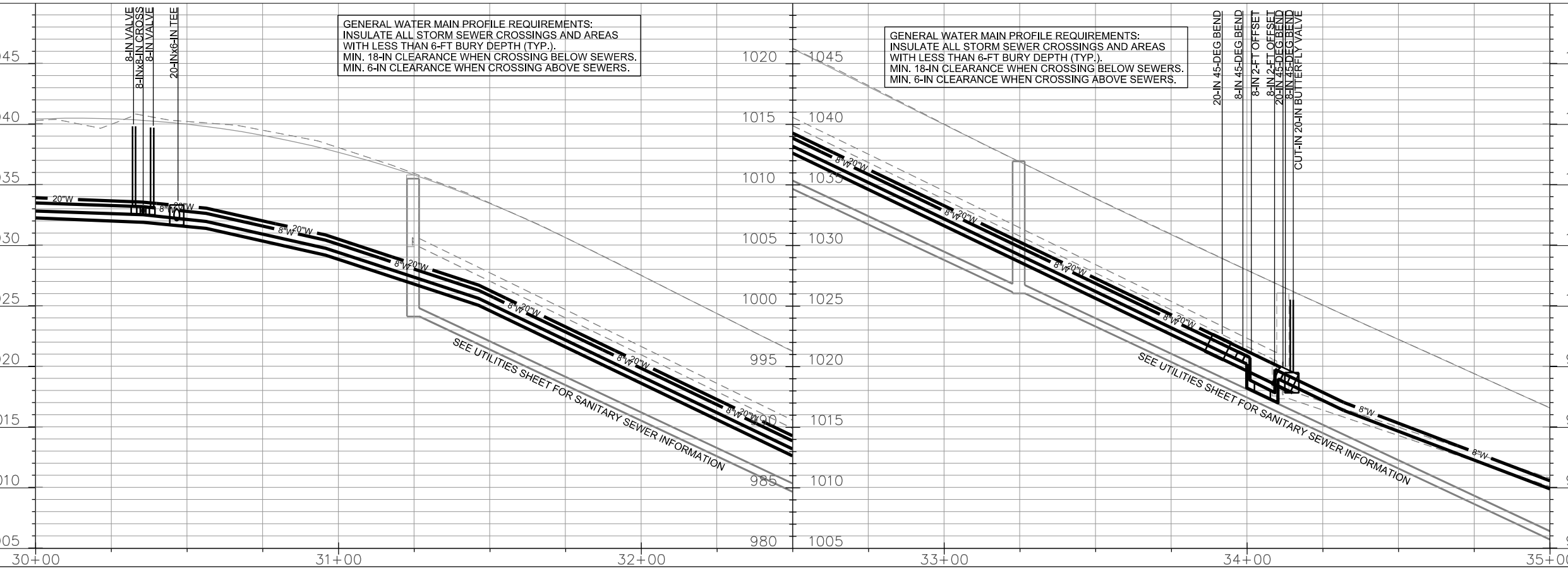
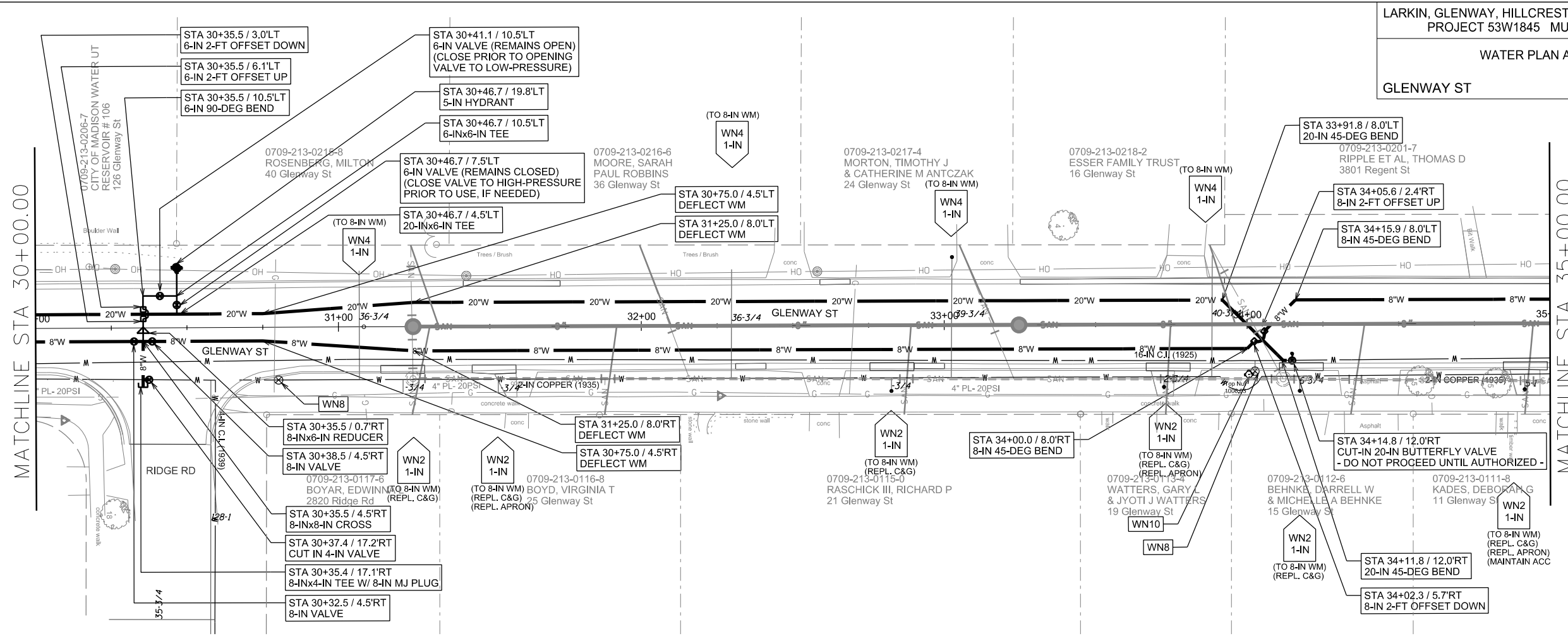


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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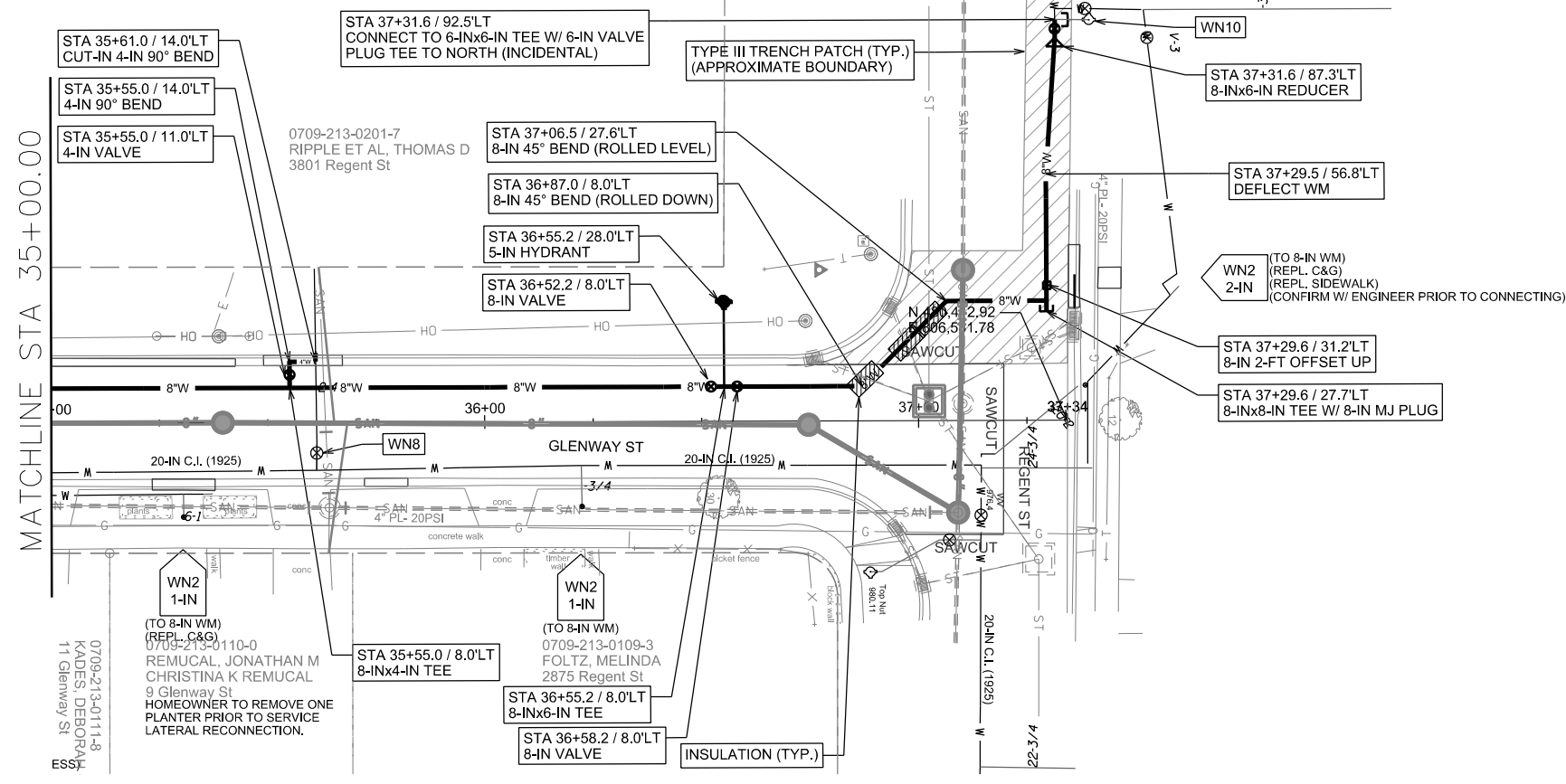
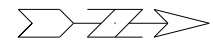
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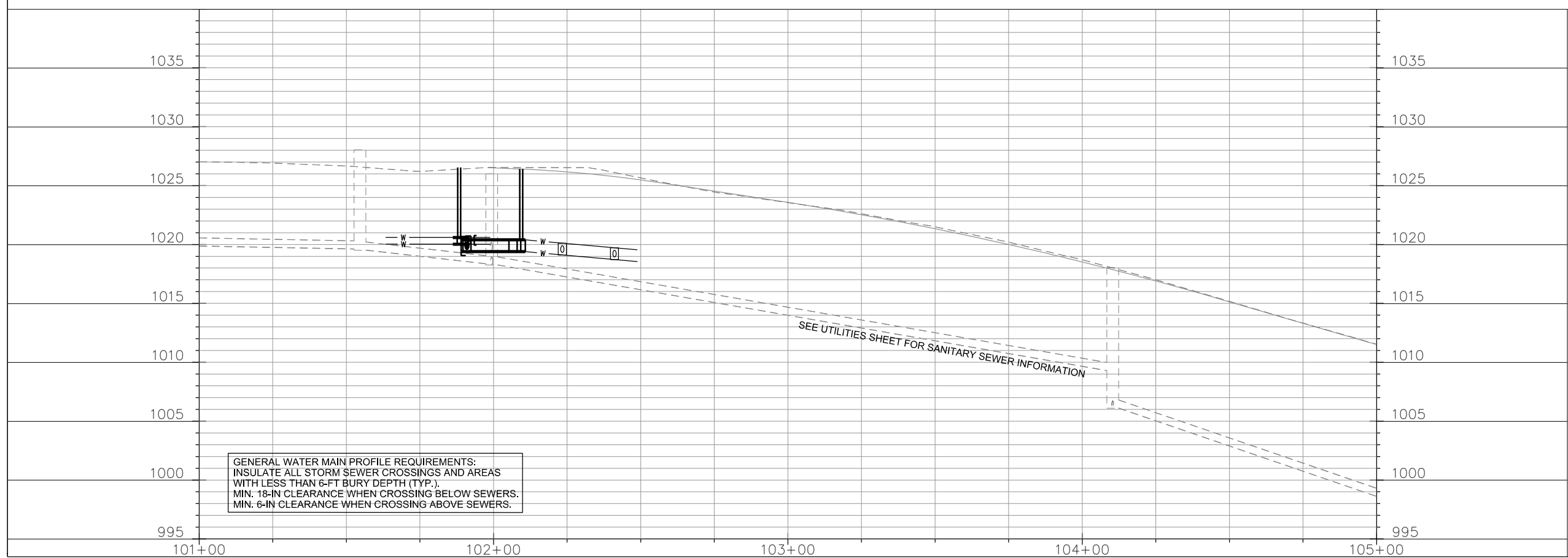
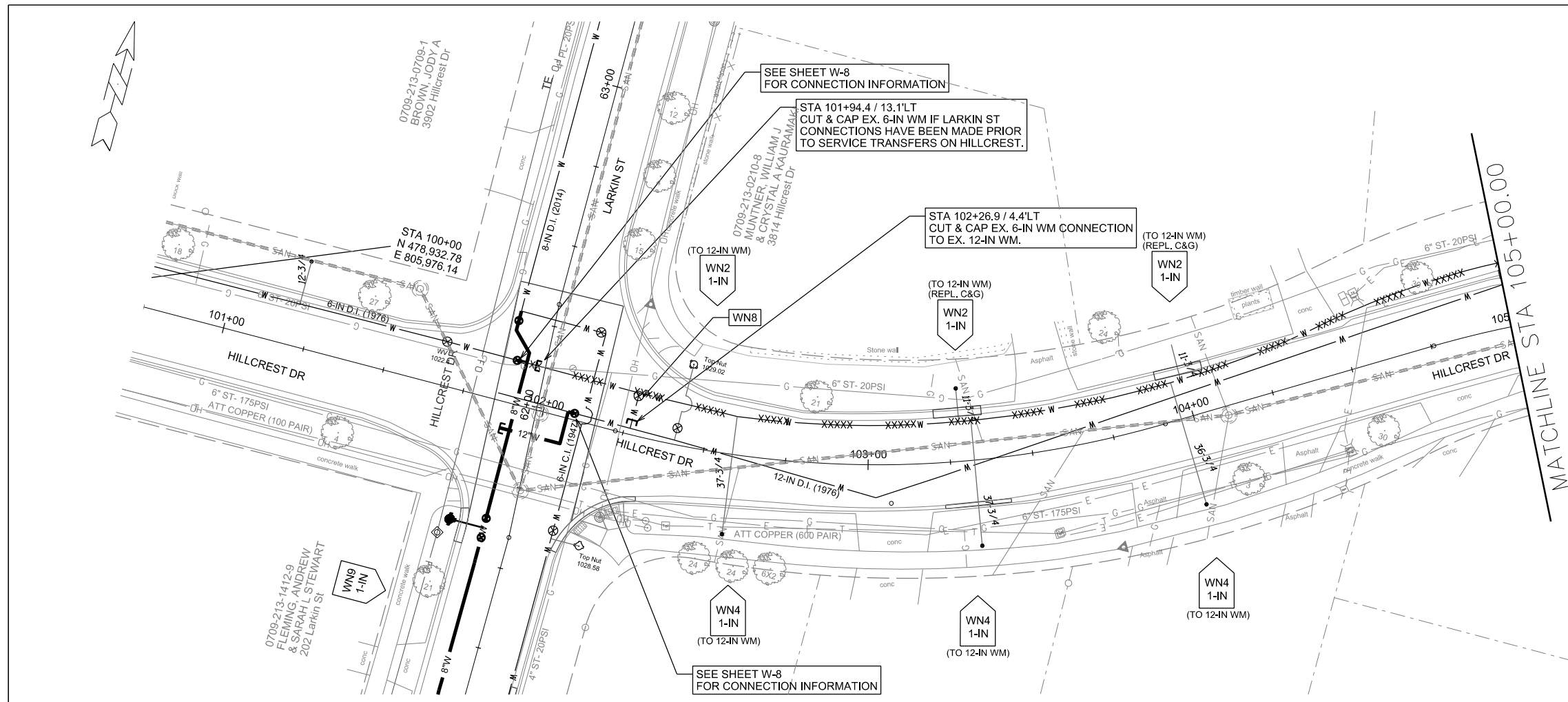
WATER PLAN AND PROFILE

GLENWAY ST / REGENT ST CITY OF MADISON



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

WATER PLAN AND PROFILE  
HILLCREST DR CITY OF MADISON



GENERAL WATER MAIN PROFILE REQUIREMENTS:  
INSULATE ALL STORM SEWER CROSSINGS AND AREAS WITH LESS THAN 6-FT BURY DEPTH (TYP.).  
MIN. 18-IN CLEARANCE WHEN CROSSING BELOW SEWERS.  
MIN. 6-IN CLEARANCE WHEN CROSSING ABOVE SEWERS.

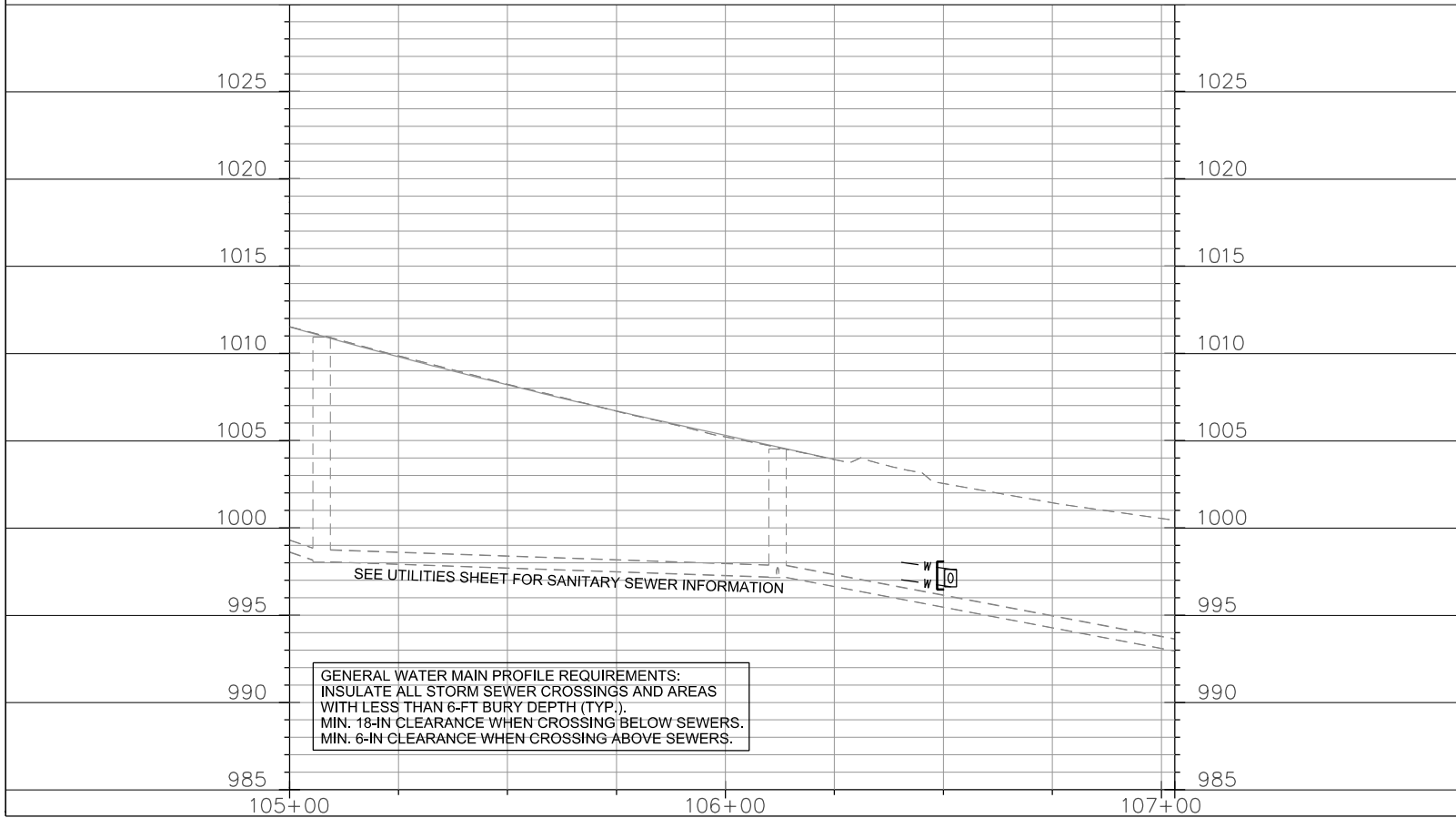
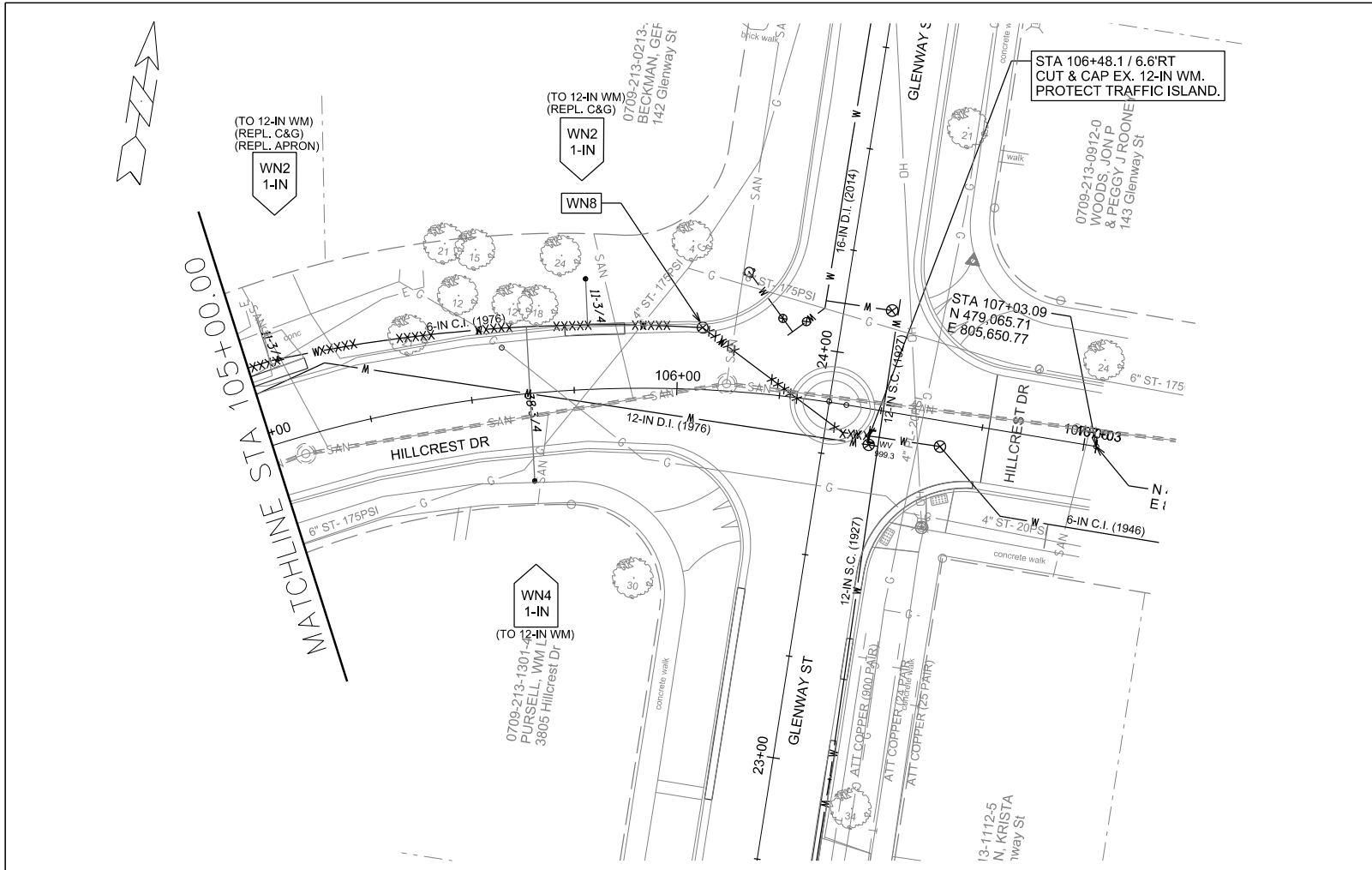
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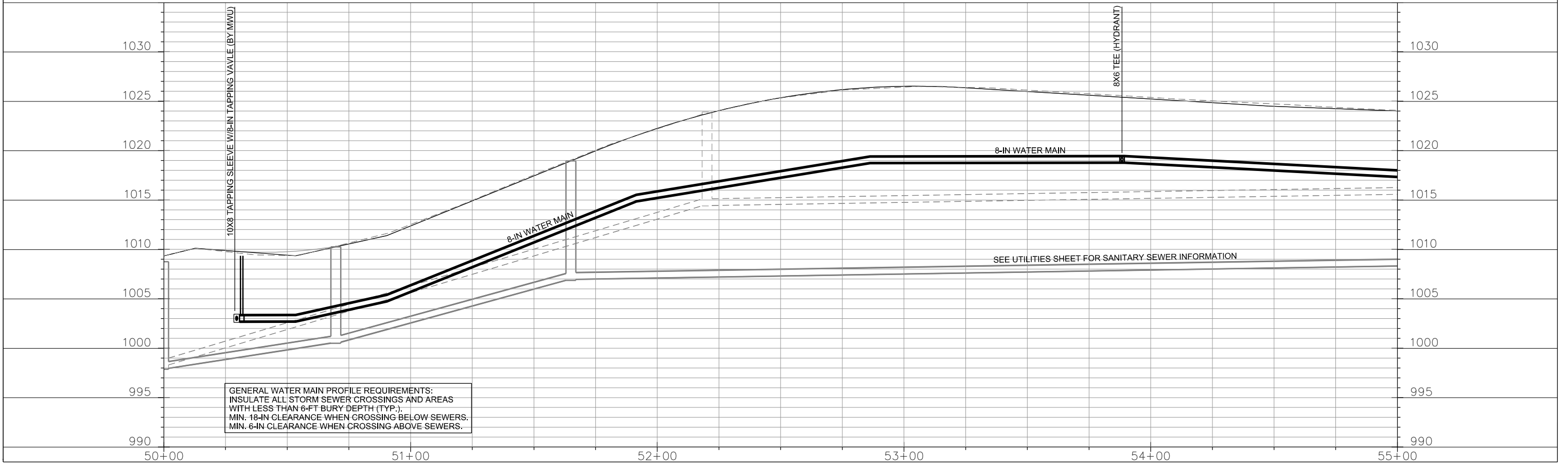
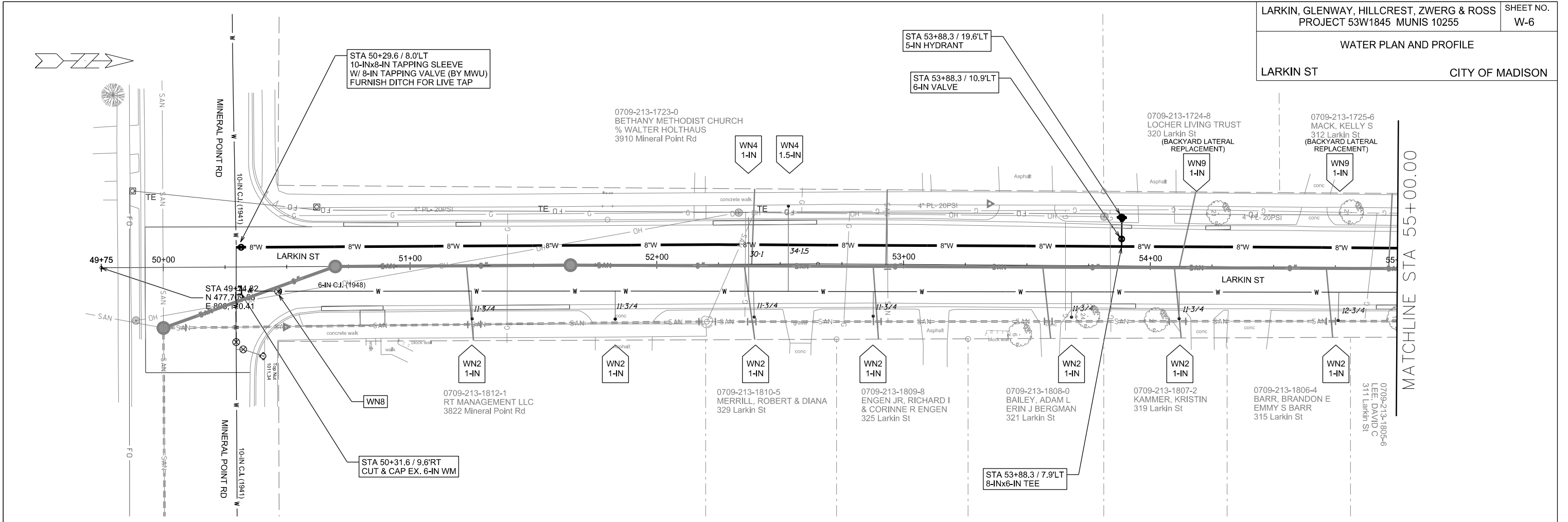
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
HILLCREST DR CITY OF MADISON



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

WATER PLAN AND PROFILE  
LARKIN ST CITY OF MADISON



PLOT SCALE:

PLOT NAME:

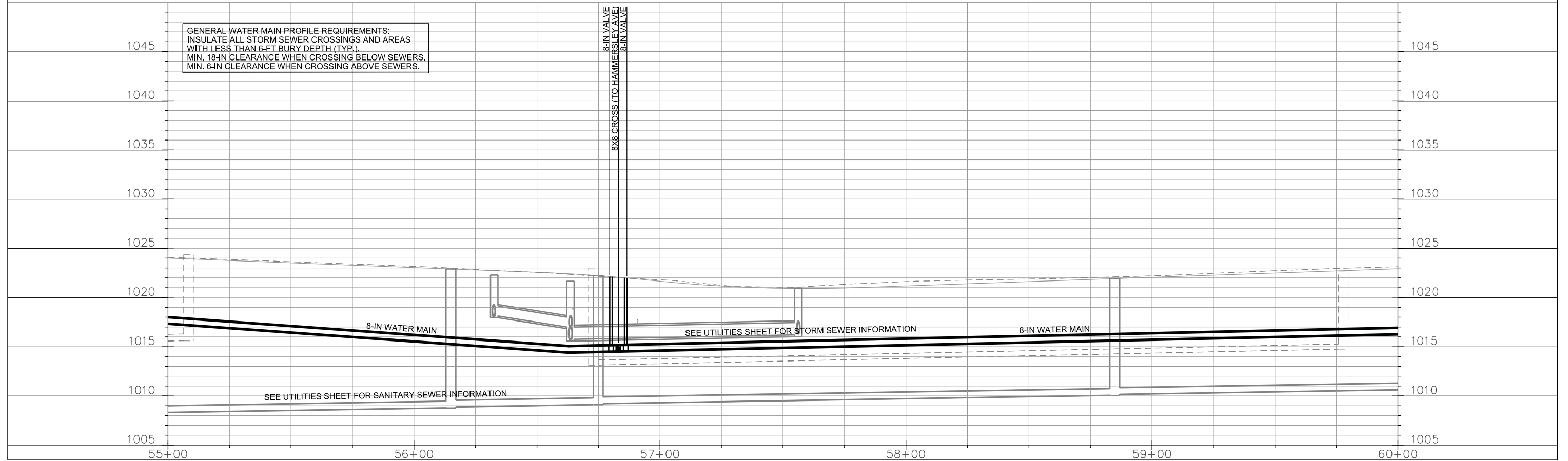
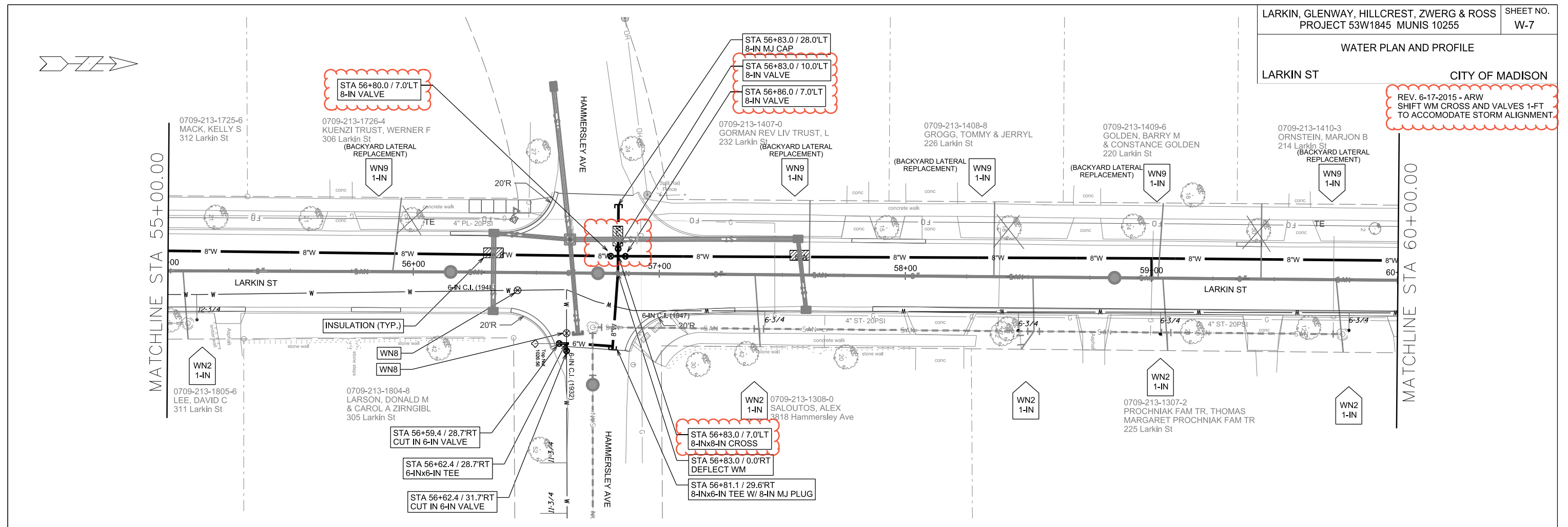
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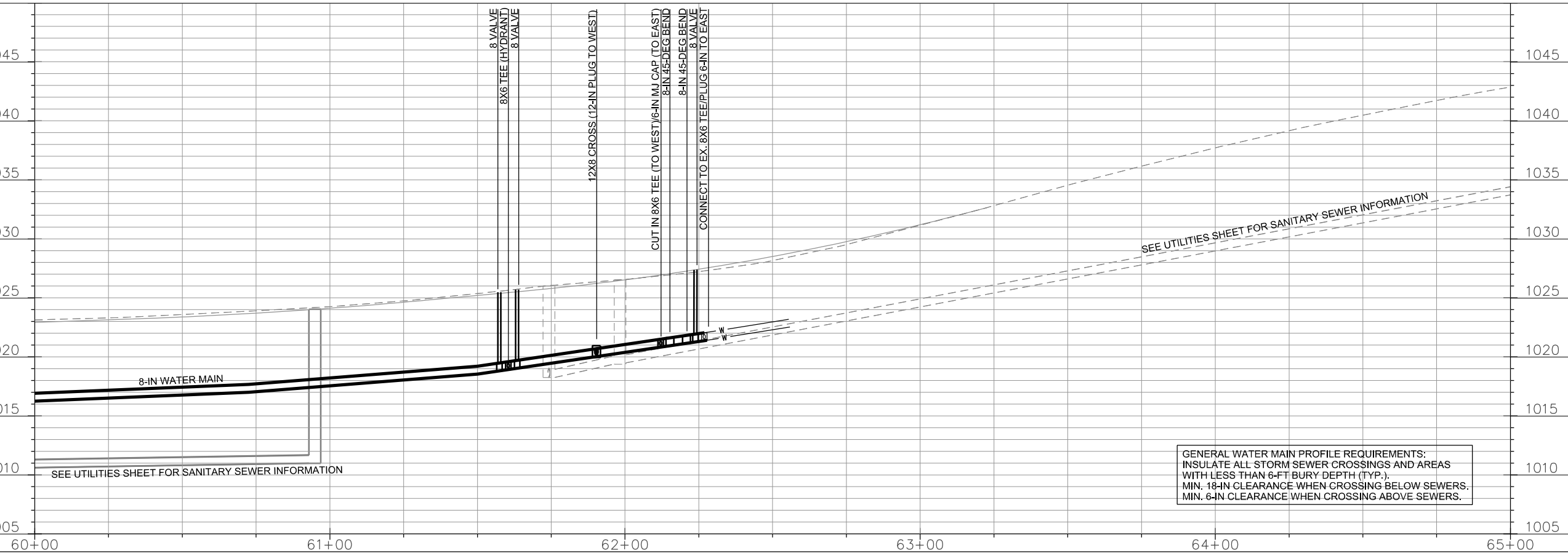
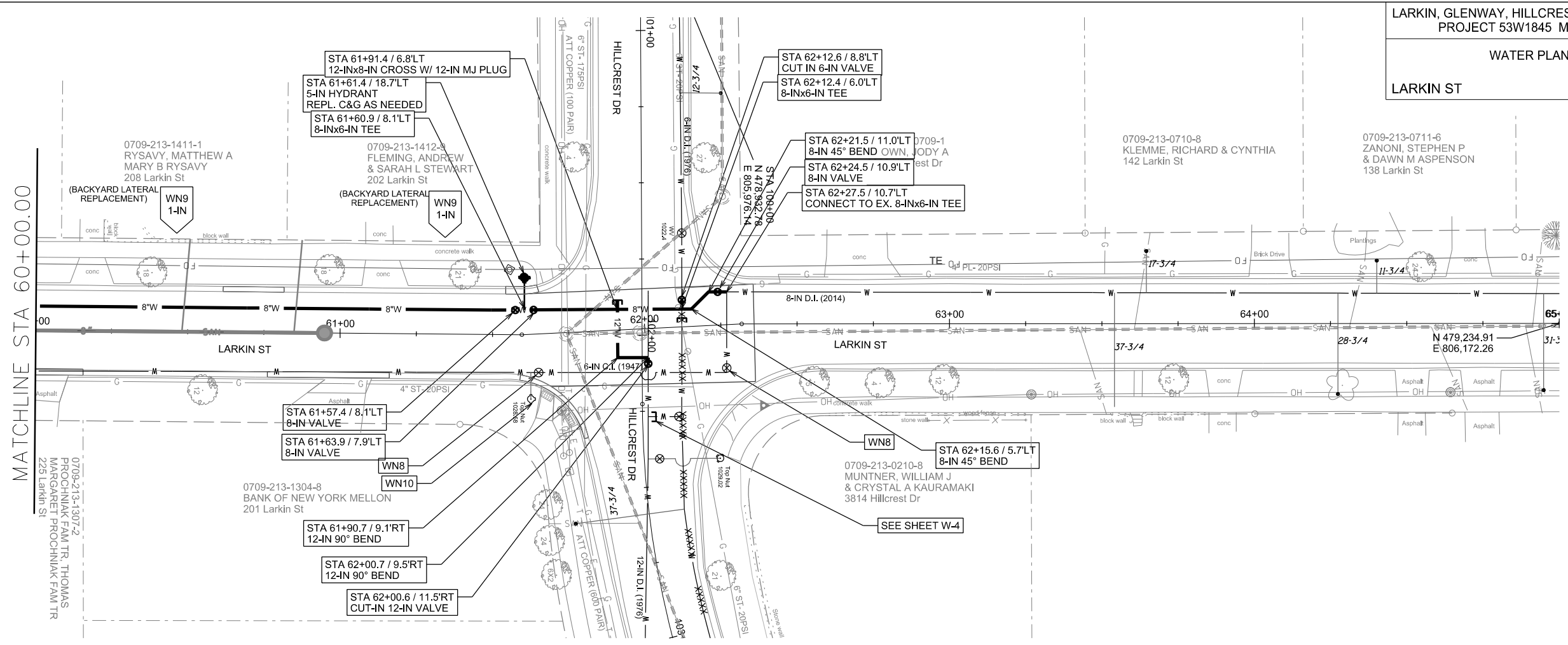
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



WATER PLAN AND PROFILE  
LARKIN ST CITY OF MADISON

REV. 6-17-2015 - ARW  
SHIFT WM CROSS AND VALVES 1-FT  
TO ACCOMMODATE STORM ALIGNMENT



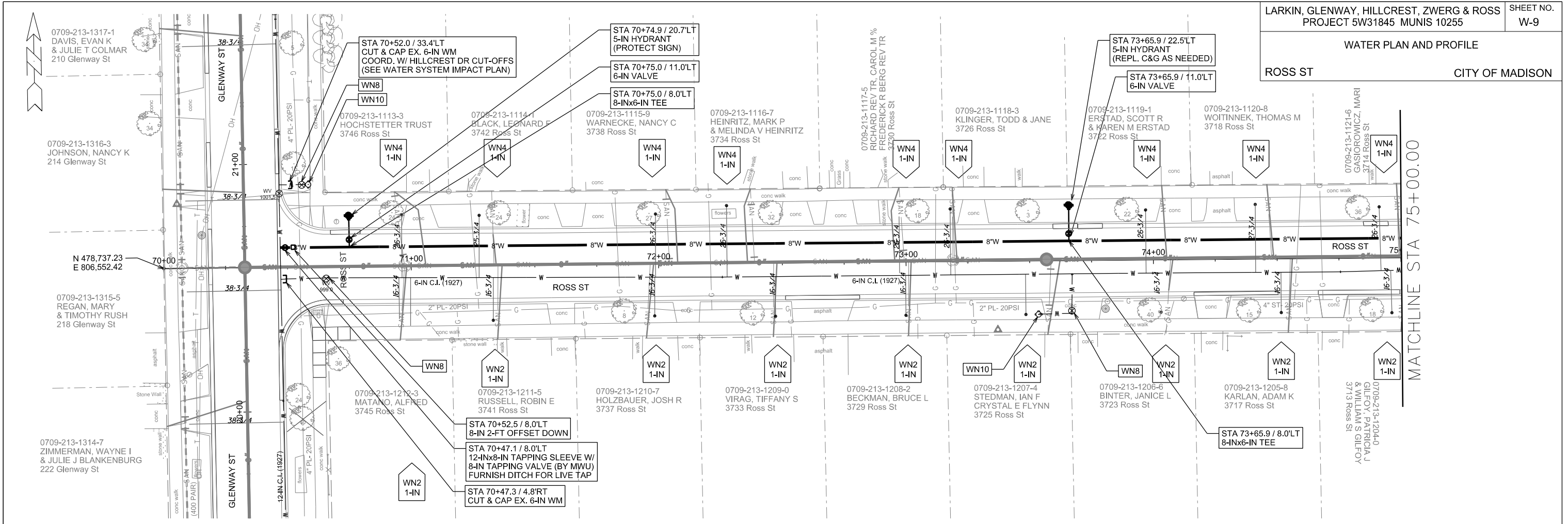


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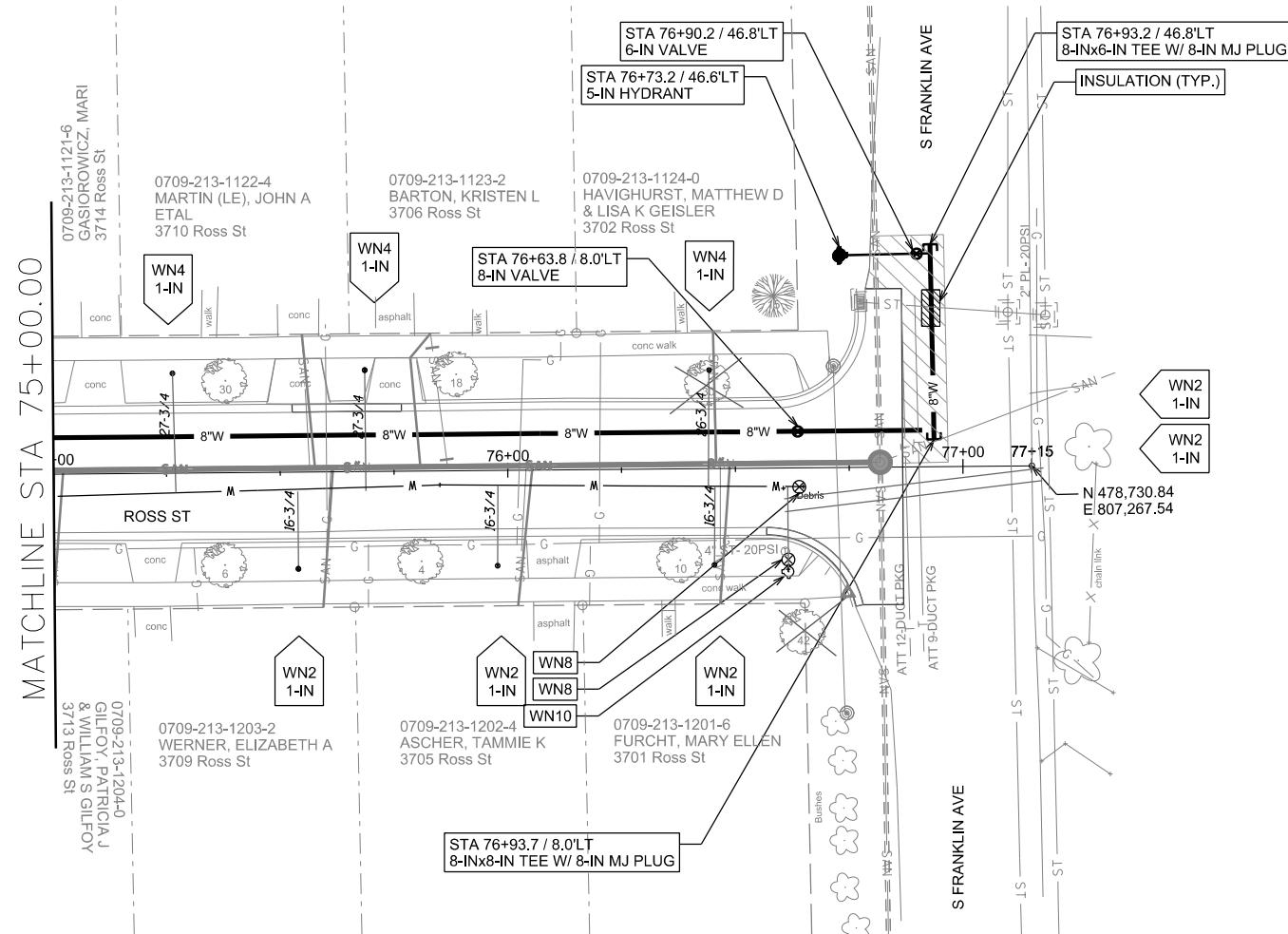
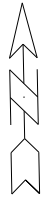
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

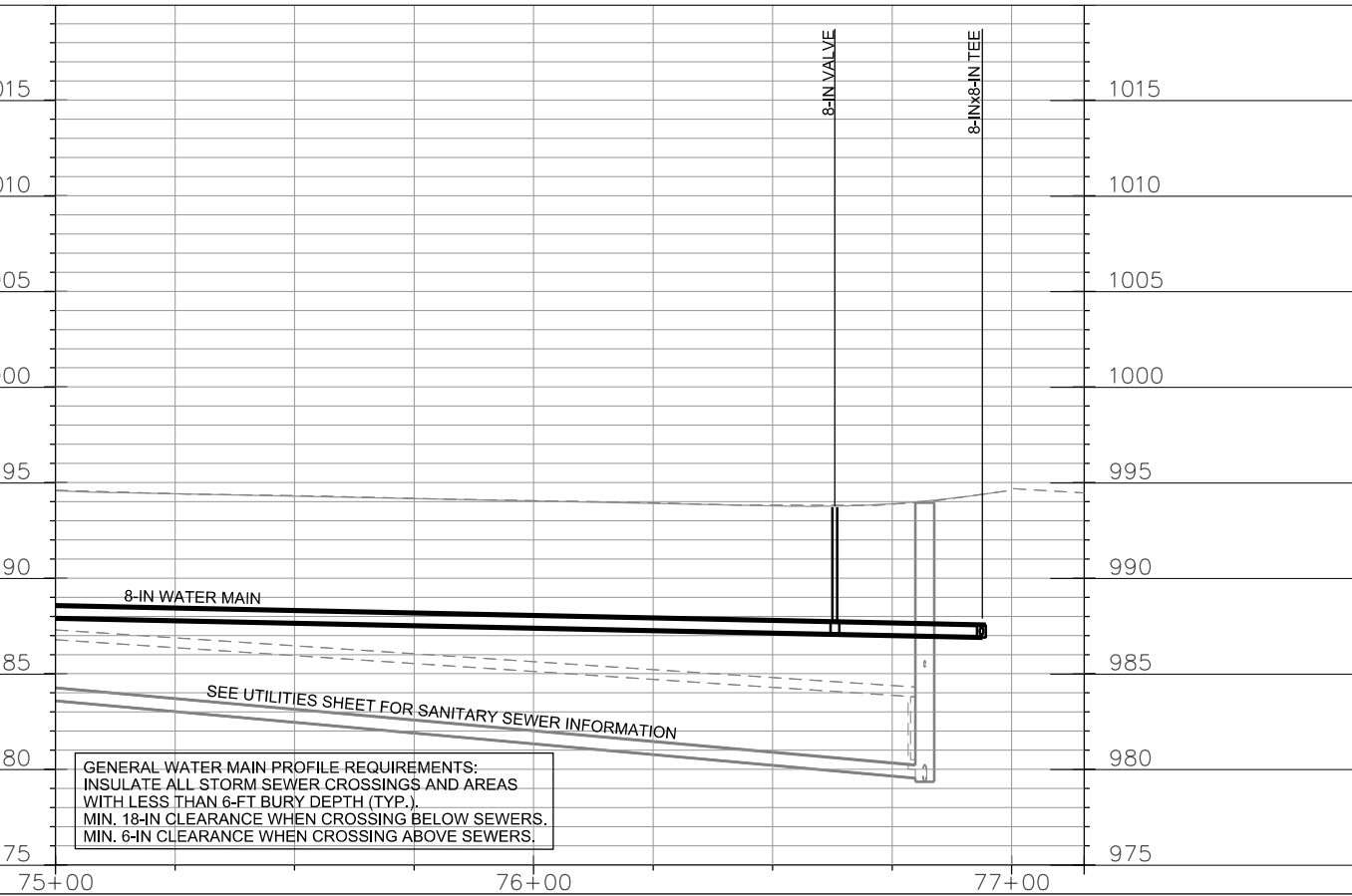
WATER PLAN AND PROFILE

ROSS ST

CITY OF MADISON



MATCHLINE STA 75+00.00

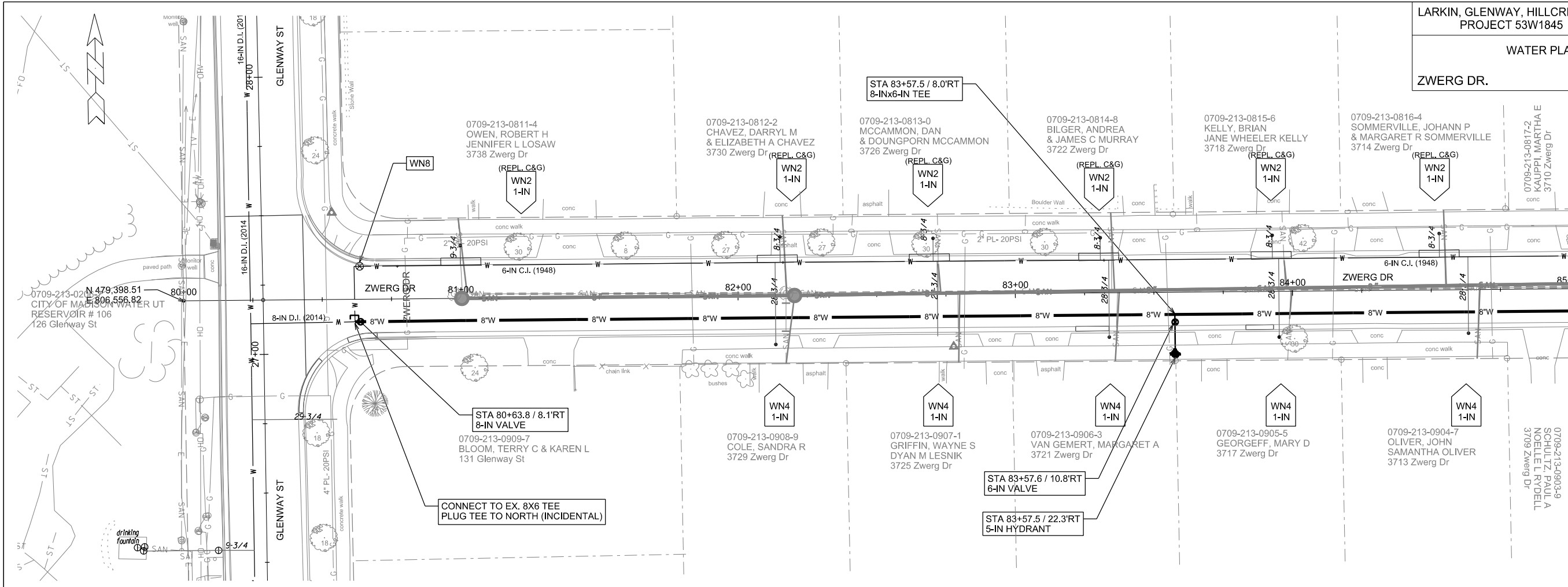


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 85+00.00



PLOT SCALE:

PLOT NAME:

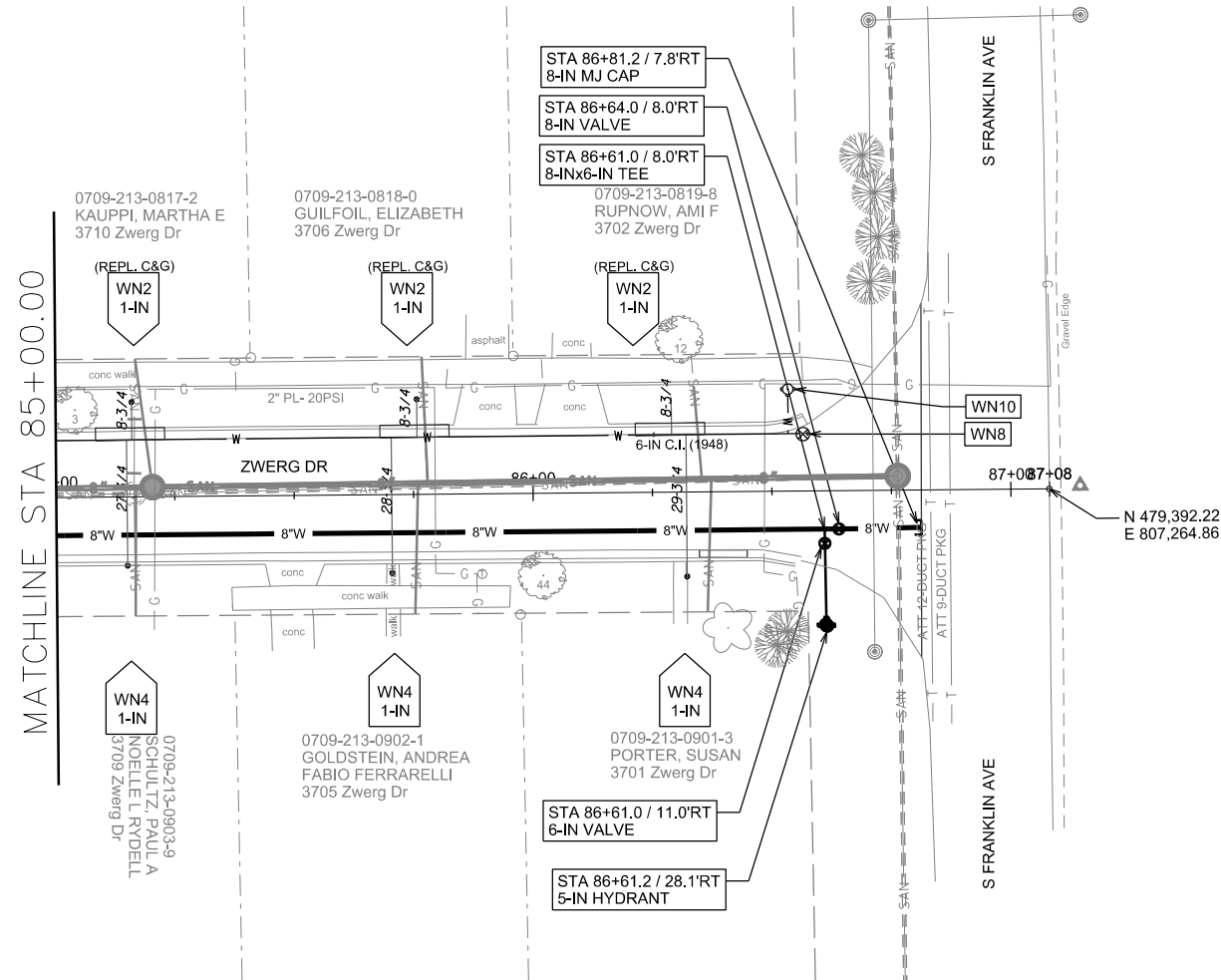
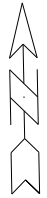
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

ZWERG DR

CITY OF MADISON



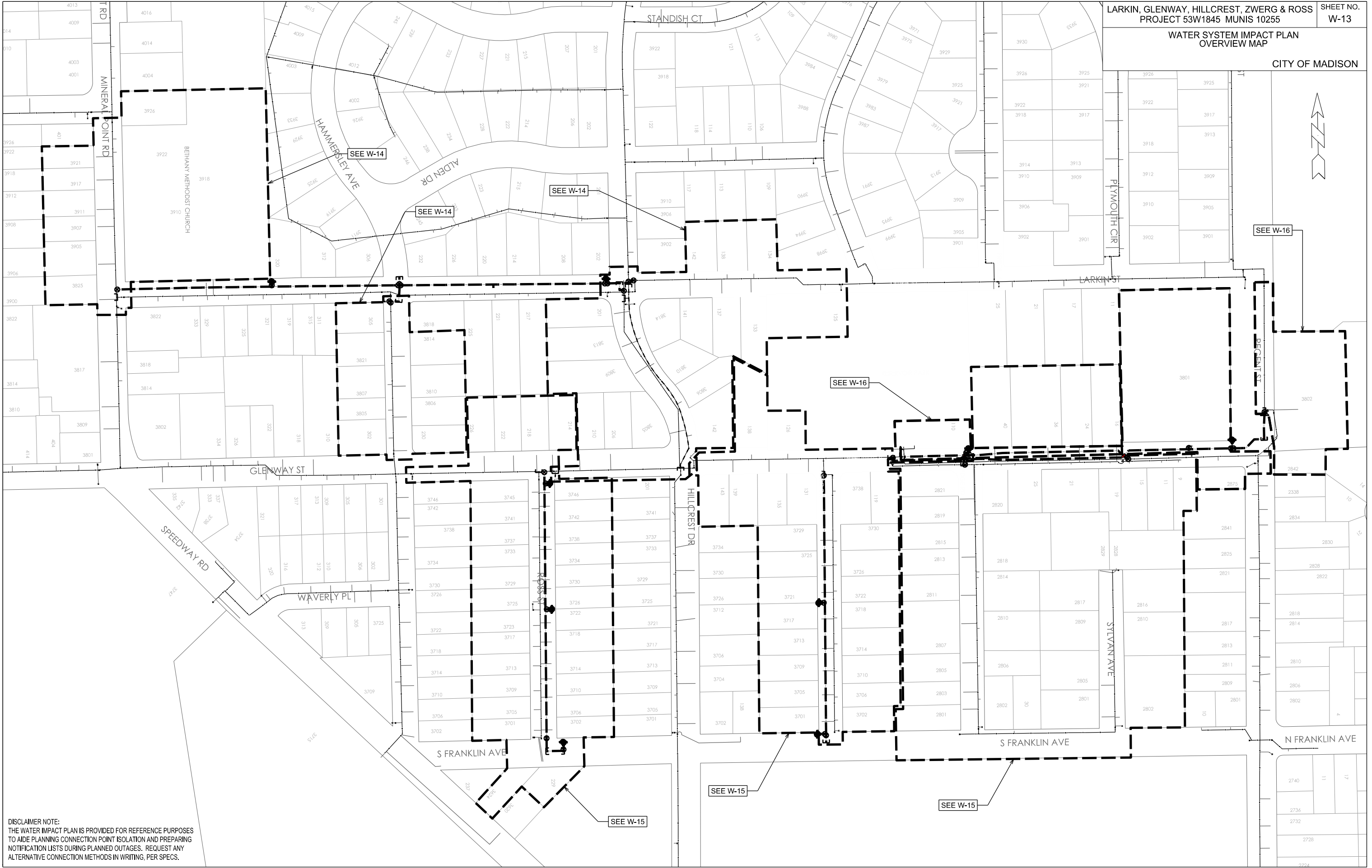
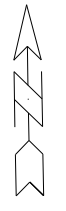
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER SYSTEM IMPACT PLAN  
OVERVIEW MAP

CITY OF MADISON



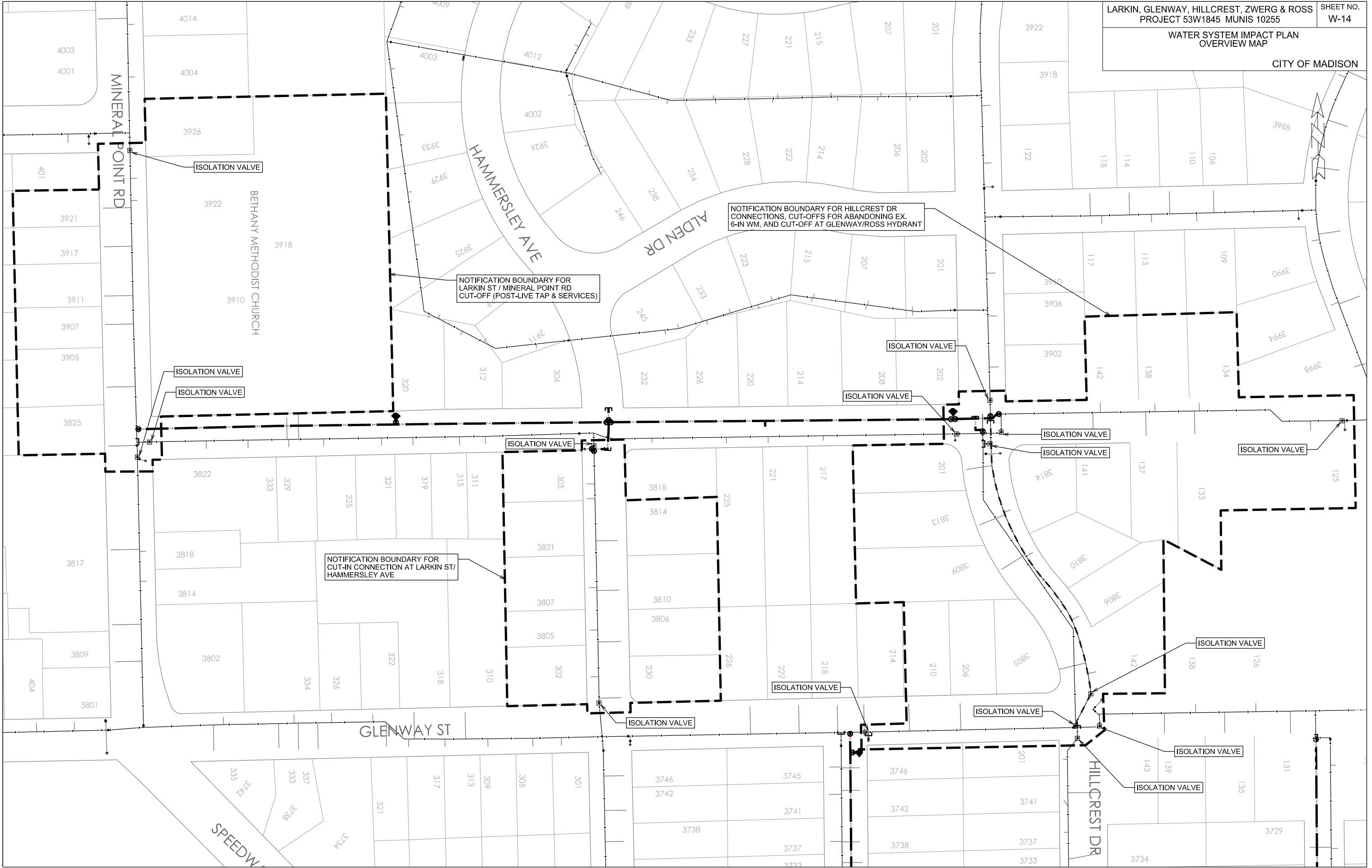
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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



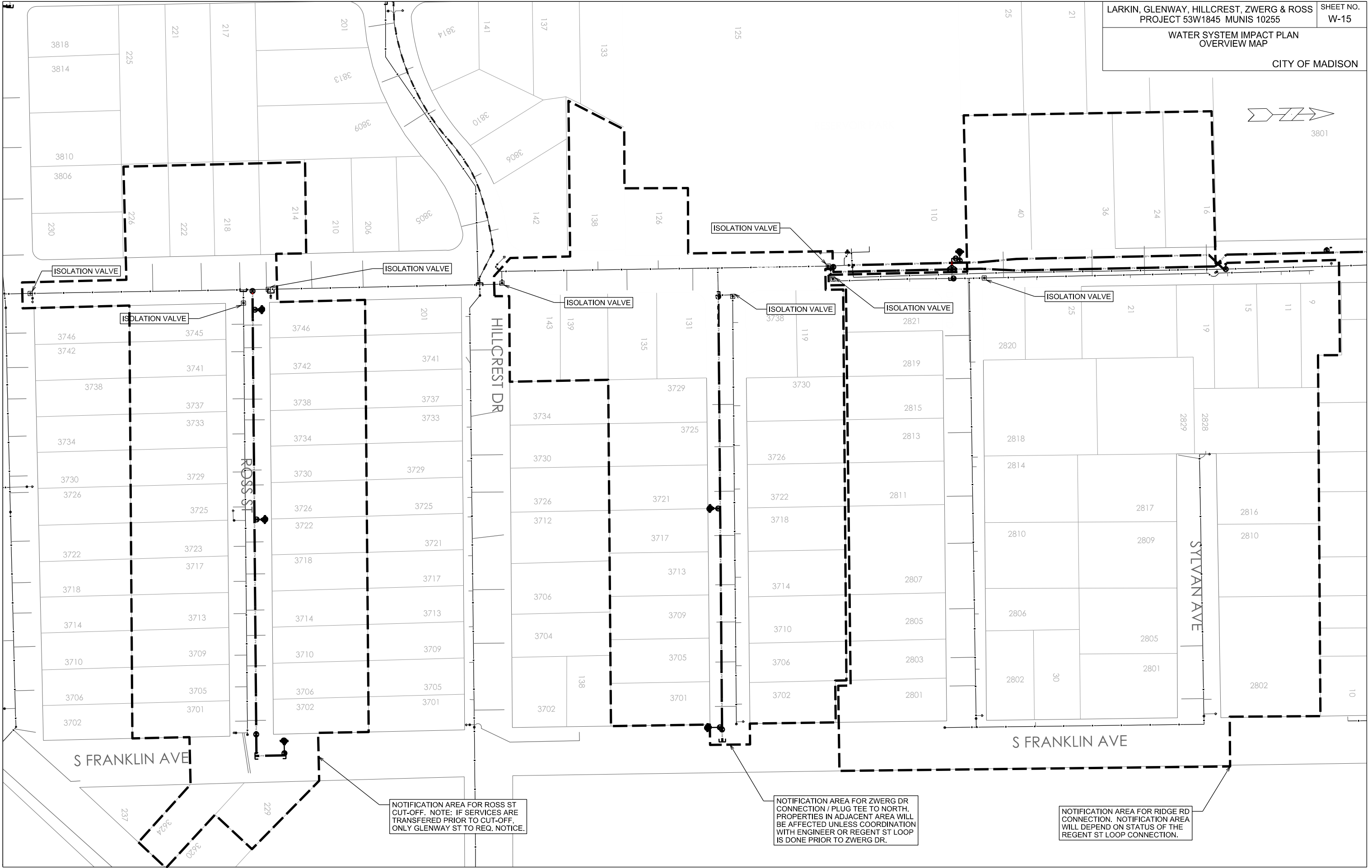
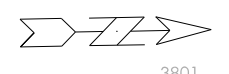
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





NOTIFICATION AREA FOR ROSS ST CUT-OFF. NOTE: IF SERVICES ARE TRANSFERRED PRIOR TO CUT-OFF, ONLY GLENWAY ST TO REQ. NOTICE.

NOTIFICATION AREA FOR ZWERG DR CONNECTION / PLUG TEE TO NORTH. PROPERTIES IN ADJACENT AREA WILL BE AFFECTED UNLESS COORDINATION WITH ENGINEER OR REGENT ST LOOP IS DONE PRIOR TO ZWERG DR.

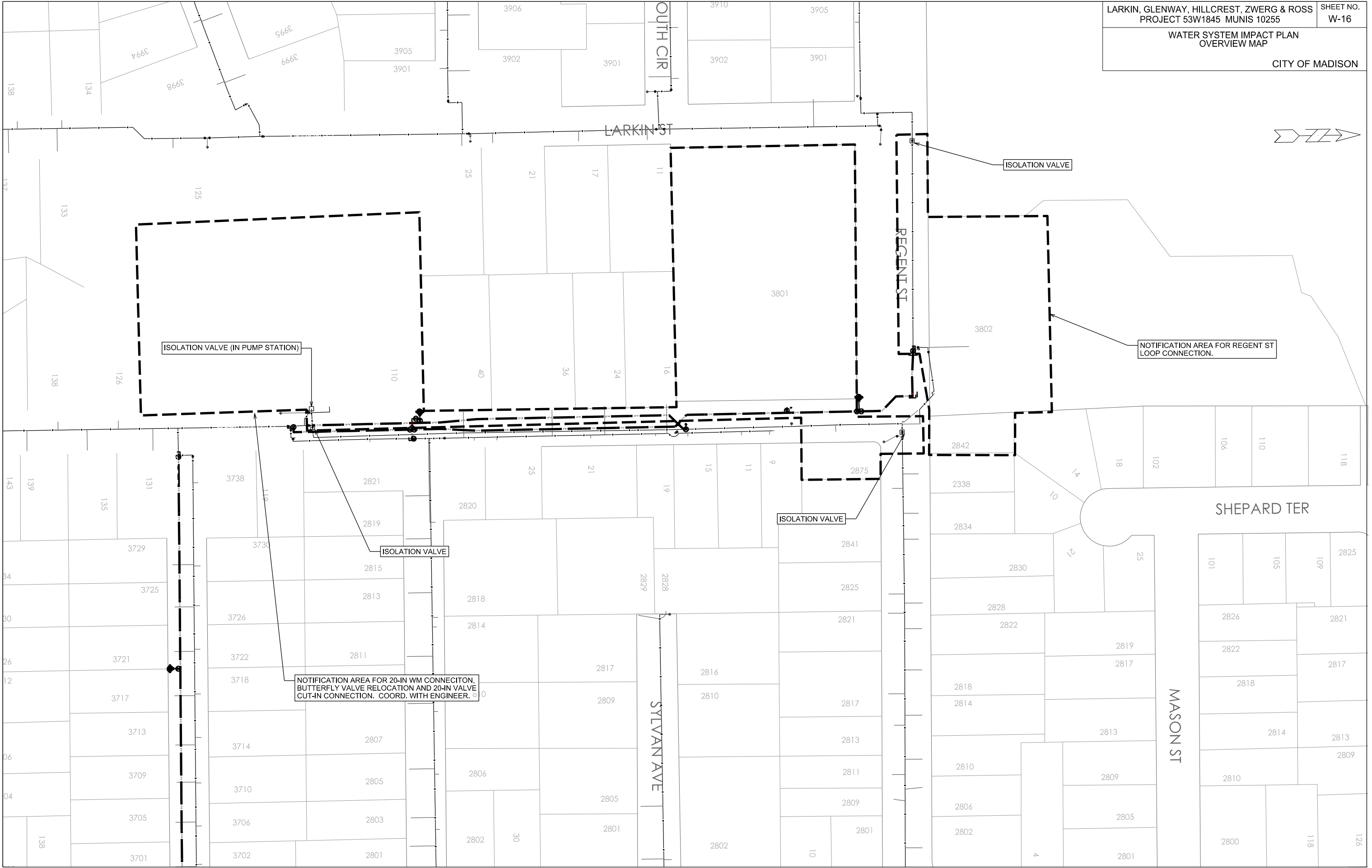
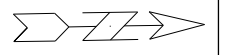
NOTIFICATION AREA FOR RIDGE RD CONNECTION. NOTIFICATION AREA WILL DEPEND ON STATUS OF THE REGENT ST LOOP CONNECTION.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

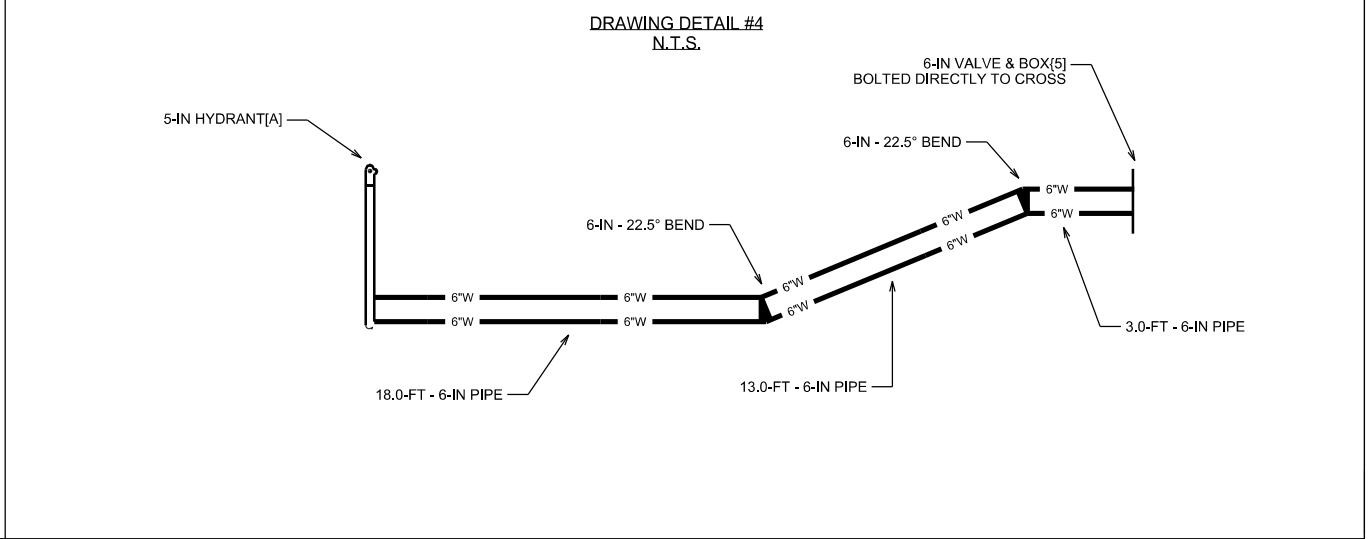
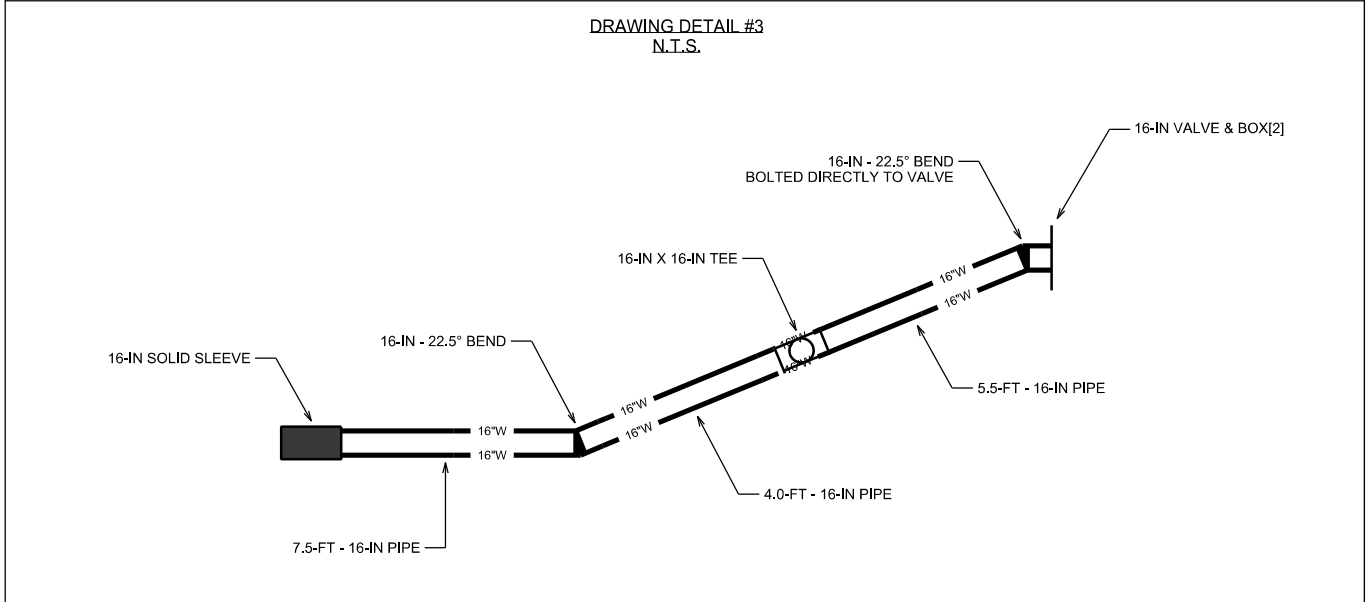
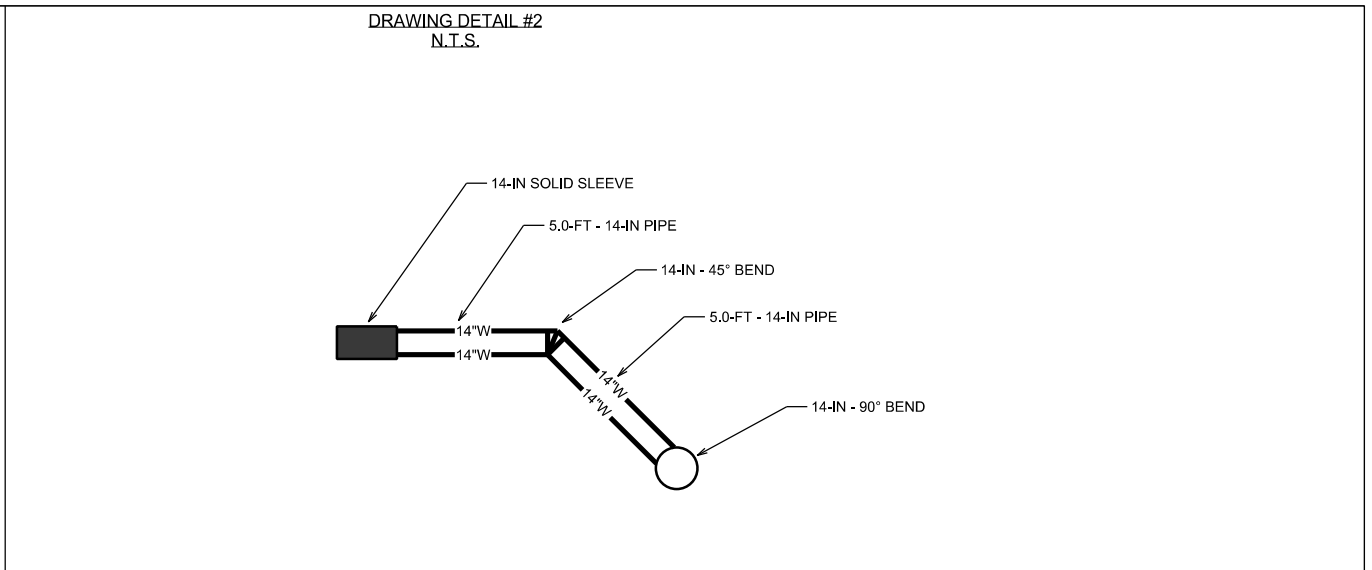
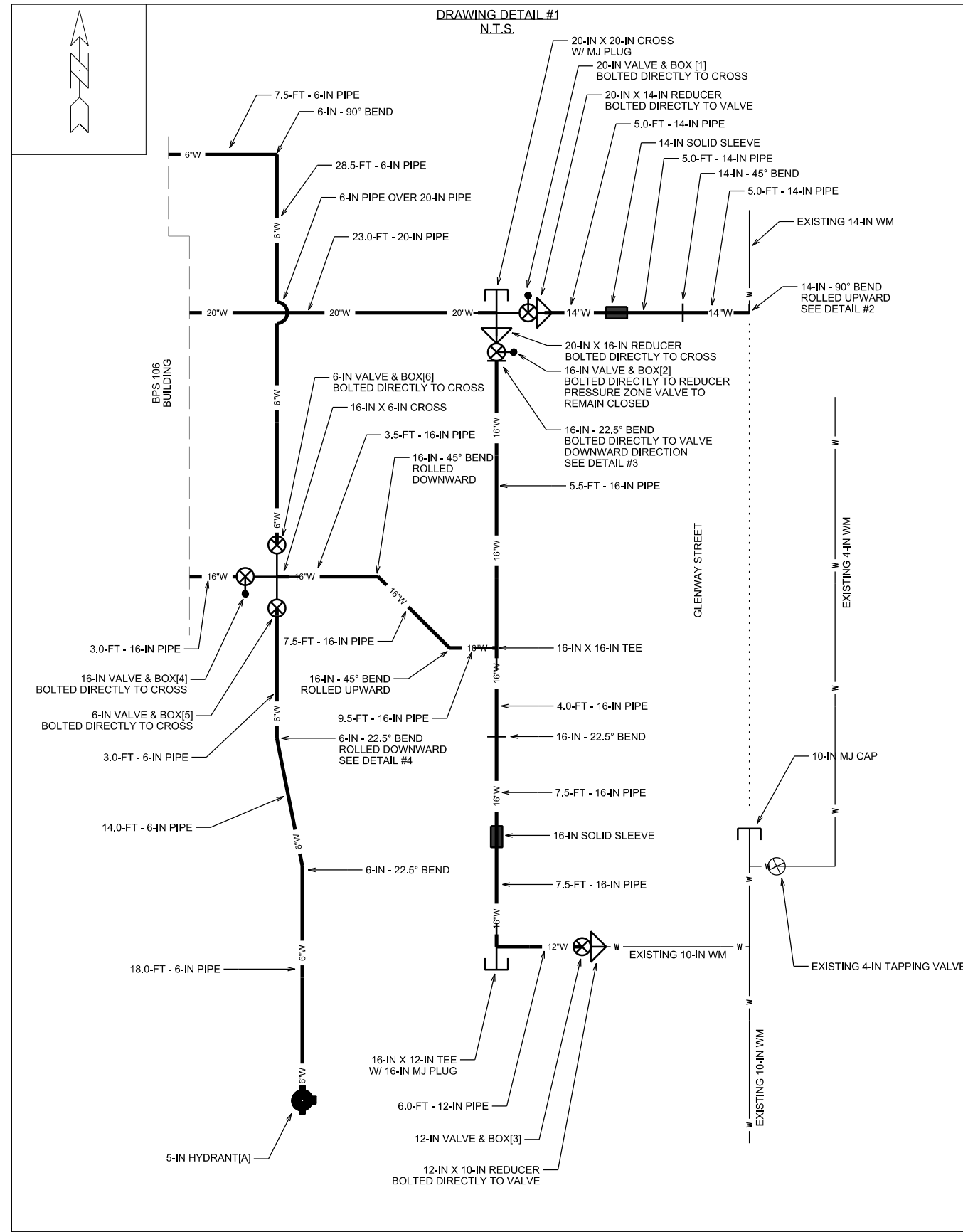


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PLOT SCALE:

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**CONSTRUCTION NOTES:**

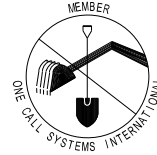
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION 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.

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.

- 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

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.



**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

- |  |                         |
|--|-------------------------|
| 20-FT - 4-IN PIPE                                    | 2 - 6-IN X 6-IN TEE     |
| 220-FT - 6-IN PIPE                                   | 2 - 8-IN X 4-IN TEE     |
| 3540-FT - 8-IN PIPE                                  | 10 - 8-IN X 6-IN TEE    |
| 40-FT - 12-IN PIPE                                   | 2 - 8-IN X 8-IN TEE     |
| 540-FT - 20-IN PIPE                                  | 1 - 20-IN X 6-IN TEE    |
| 4760-FT - POLYWRAP                                   | 2 - 8-IN X 8-IN CROSS   |
|  | 1 - 12-IN X 8-IN CROSS  |
| 2 - 4-IN VALVE & BOX                                 | 2 - 8-IN X 6-IN REDUCER |
| 12 - 6-IN VALVE & BOX                                |                         |
| 14 - 8-IN VALVE & BOX                                |                         |
| 1 - 12-IN VALVE & BOX                                | 2 - 6-IN X 2-FT OFFSET  |
| 1 - 20-IN VALVE & BOX                                | 4 - 8-IN X 2-FT OFFSET  |
| 2 - 4-IN 90° BEND                                    | 2 - 6-IN MJ PLUG        |
| 1 - 6-IN 90° BEND                                    | 5 - 8-IN MJ PLUG        |
| 1 - 8-IN 90° BEND                                    | 1 - 12-IN MJ PLUG       |
| 2 - 12-IN 90° BEND                                   |                         |
| 6 - 8-IN 45° BEND                                    | 5 - 6-IN MJ CAP         |
| 2 - 20-IN 45° BEND                                   | 2 - 8-IN MJ CAP         |
|  | 2 - 12-IN MJ CAP        |
| 9 - 5-IN HYDRANT                                     |                         |
| 60-FT - 2-IN STYROFOAM INSULATION                    |                         |
| COPPER SERVICE TUBING/COUPLINGS (AS REQUIRED)        |                         |
| HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQUIRED) |                         |

**ESTIMATE OF MATERIALS SUPPLIED BY CITY:**

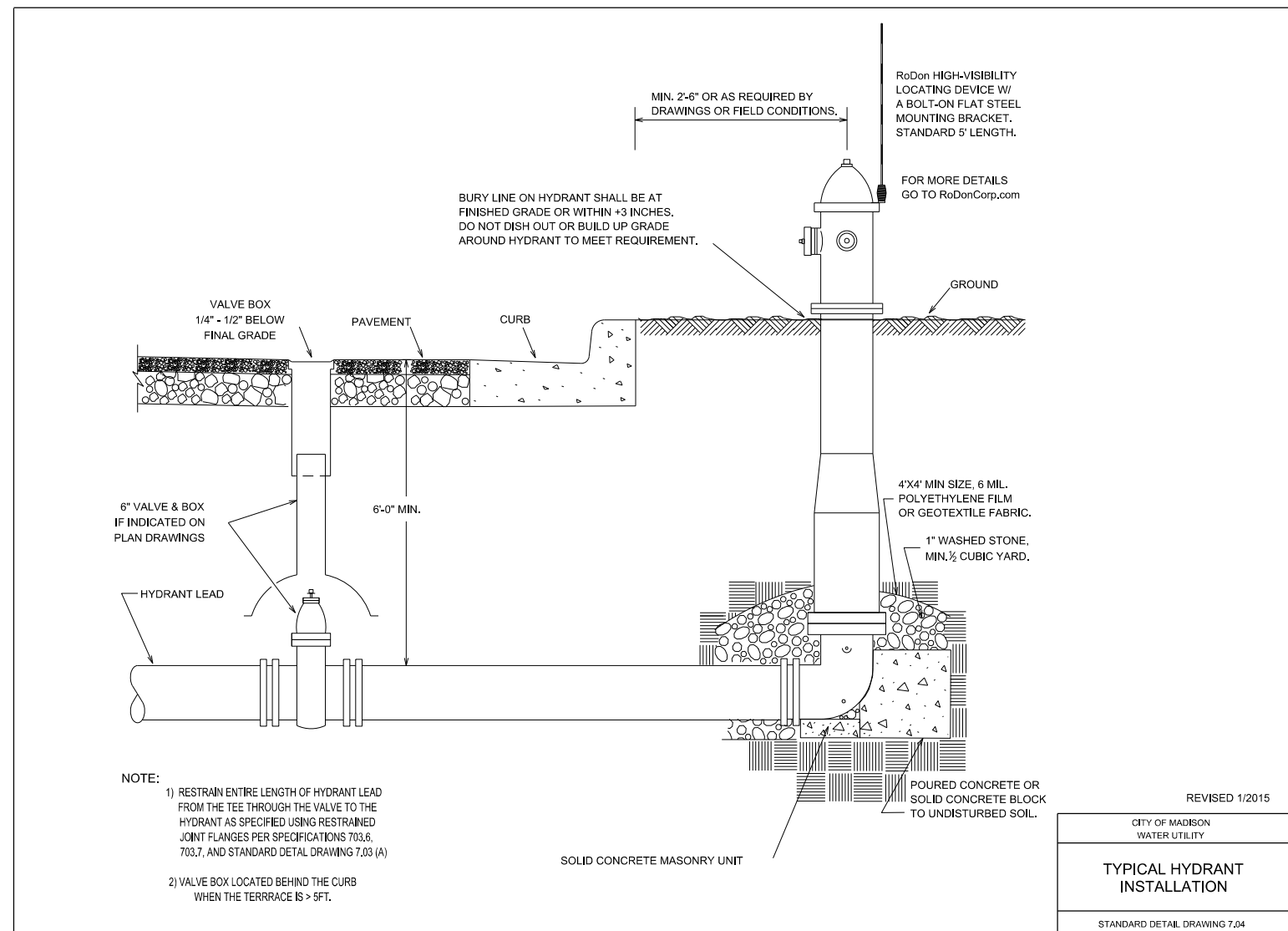
\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 2 - 8-IN TAPPING VALVE
- 1 - 16-IN X 8-IN TAPPING SLEEVE
- 1 - 10-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 - 12-IN VALVE



REVISED 1/2015

CITY OF MADISON  
WATER UTILITY

TYPICAL HYDRANT  
INSTALLATION

STANDARD DETAIL DRAWING 7.04