

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS


# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT  
APPROVED

APPROVED DATE: APRIL 16, 2019

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

 3/5/20  
City Engineer Date

### INDEX OF SHEETS

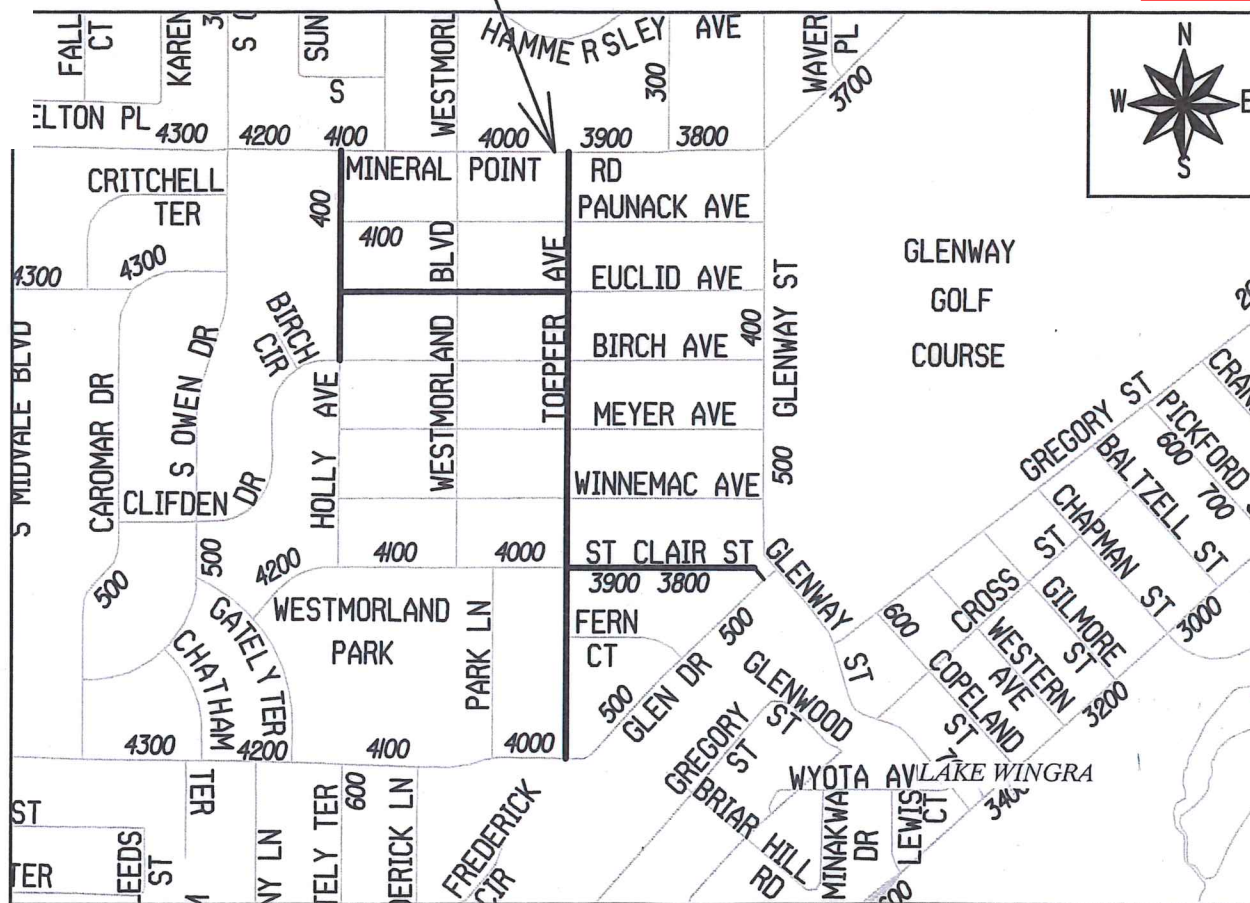
SHEET NO.	TITLE
1	
D1-D2	TYPICAL SECTIONS
EC1-EC11	EROSION CONTROL PLAN & PROFILES
P1-P11	STREET PLAN & PROFILES
U1-U11	SEWERS PLAN & PROFILES
U12-U13	SANITARY SEWER SCHEDULE
U14-U16	STORM SEWER SCHEDULE
G11-G127	GREEN INFRASTRUCTURE DETAILS
W1-W8	WATER PLAN & PROFILE
W9-W10	WATER IMPACT PLAN
W11	WATER ESTIMATE OF MATERIALS
TC1-TC2	TRAFFIC CONTROL
PM1-PM3	PAVEMENT MARKING
X1-X25	CROSS SECTIONS

## TOEPFER AVENUE, HOLLY AVENUE, EUCLID AVENUE, AND ST. CLAIR STREET ASSESSMENT DISTRICT - 2019

PROJECT  
LOCATION




CITY PROJECT NO. 11744  
CONTRACT NO. 8306

**PLAN EDIT HISTORY**  
3/16/2020 ADDENDUM 2  
5/13/2020 REV 1  
6/5/2020 REV 2



#### EARTH WORK SUMMARY:

EXCAVATION CUT(MEASURED PLAN QUANTITY) = 12,550 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT FOR TYPICAL PAVEMENT = 1,975 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT FOR PERVIOUS PAVEMENT = 800 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT = 15,325 C.Y.

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

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

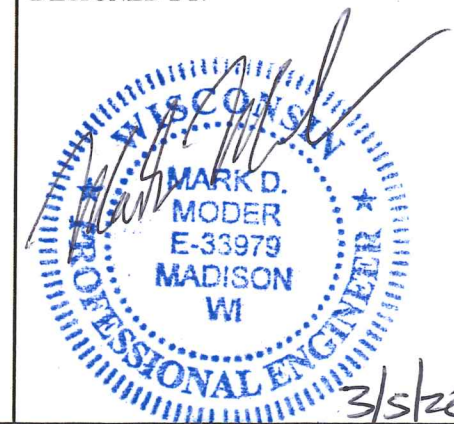
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAPMS SHALL  
HAVE A MAXIMUM SLOPE OF 1" PER 12", SIDEWALK AND CURB  
RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.50%.  
SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF  
0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT  
WHERE STREET GRADES EXCEED 5.00%.

STREET  
DESIGNED BY:



PAVEMENT MARKINGS  
& TRAFFIC CONTROL  
DESIGNED BY:

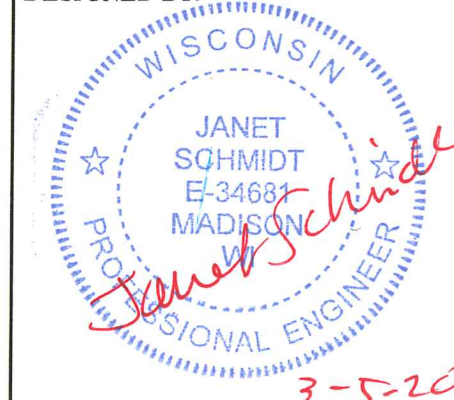
SANITARY SEWER  
DESIGNED BY:



WATER MAIN  
DESIGNED BY:



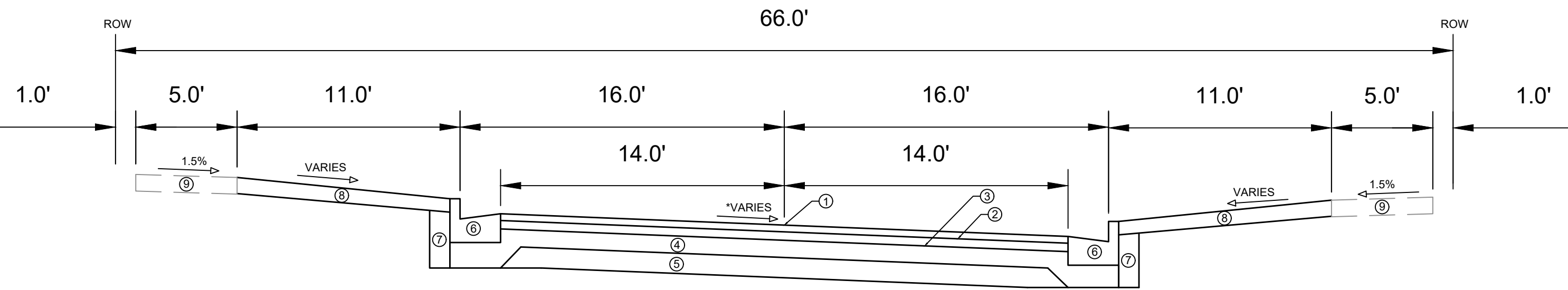
STORM SEWER  
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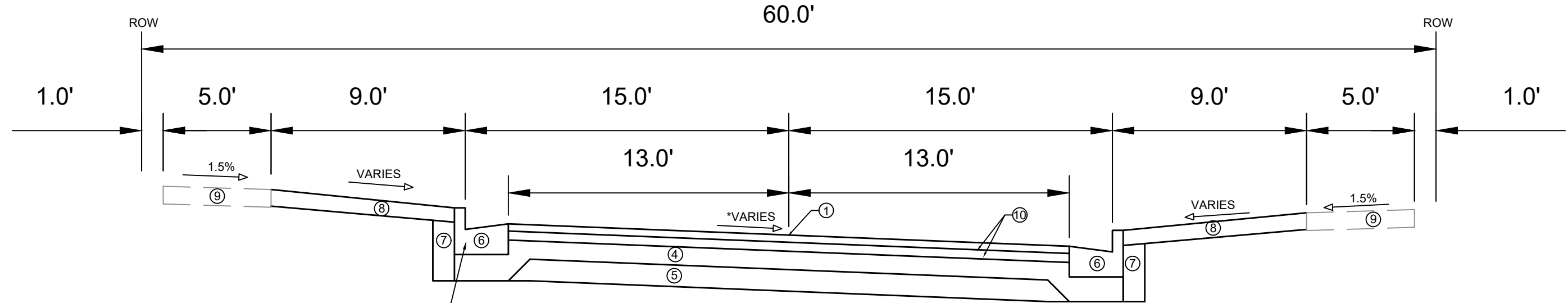
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ORIGINATOR: CITY\_OF\_MADISON



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TYPICAL SECTION  
TOEPFER AVENUE



TYPICAL SECTION  
\*\*ST. CLAIR STREET

R2

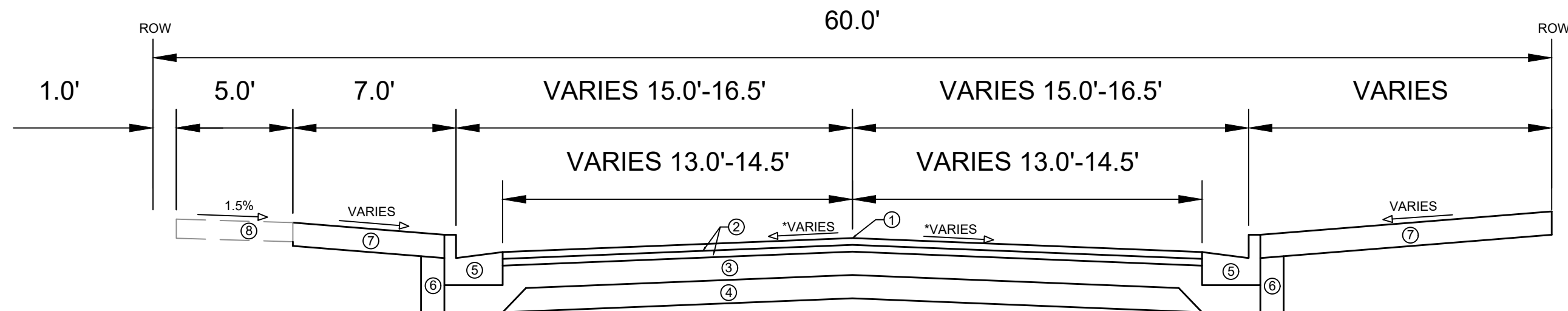
INSTALL TYPE "A" CONCRETE CURB & GUTTER 4-INCH REJECT FROM STA 402+60.0 LT TO 409+00.0 LT SEE CONSTRUCTION DETAIL ON SHEETS P-6 & P-7

SPECIAL NOTES:

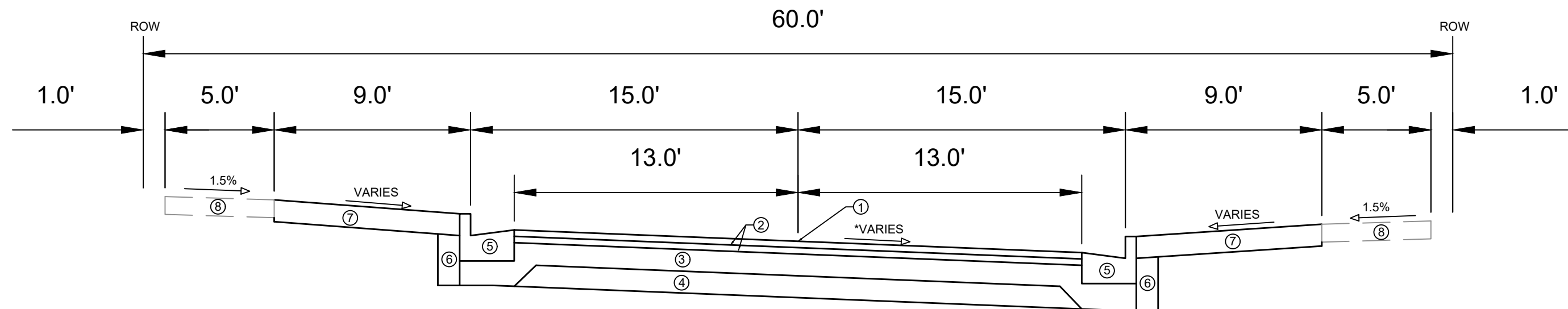
- \* SEE X-SHEETS FOR CROSS SLOPES
- \*\* SECTION INCLUDES PERVIOUS PAVEMENT. SEE PERVIOUS PAVEMNET DETAIL SHEET.

- ① POINT REFERRED TO ON PROFILE
- ② 2.00" HMA PAVEMENT- TYPE 4 MT 58-28 S
- ③ 2.50" HMA PAVEMENT- TYPE 3 MT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A' OR TYPE 'X', SEE P-SHEETS FOR LOCATIONS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS WITH 6" TOPSOIL, SEED AND MATTING
- ⑨ 5" CONCRETE SIDEWALK, REMOVE AND REPLACE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑩ 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S

11744  
MADISON, WI  
CONTRACT NO: 8306  
TYPICAL SECTIONS  
TOEPFER AVE AND ST CLAIR ST  
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TYPICAL SECTION  
HOLLY AVENUE



TYPICAL SECTION  
\*\*EUCLID AVENUE

SPECIAL NOTES:

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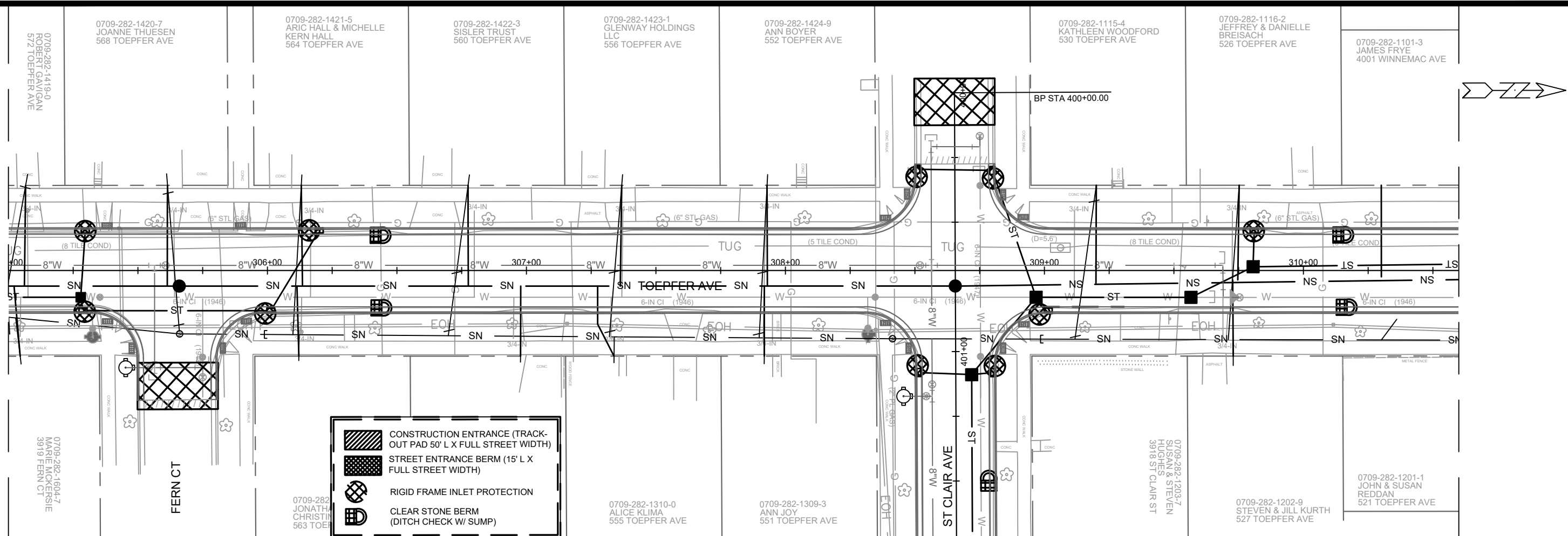
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11744  
MADISON, WI  
CONTRACT NO: 8306  
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	CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
	STREET ENTRANCE BERM (15' L X FULL STREET WIDTH)
	RIGID FRAME INLET PROTECTION
	CLEAR STONE BERM (DITCH CHECK W/ SUMP)

**EROSION CONTROL NOTES:**

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

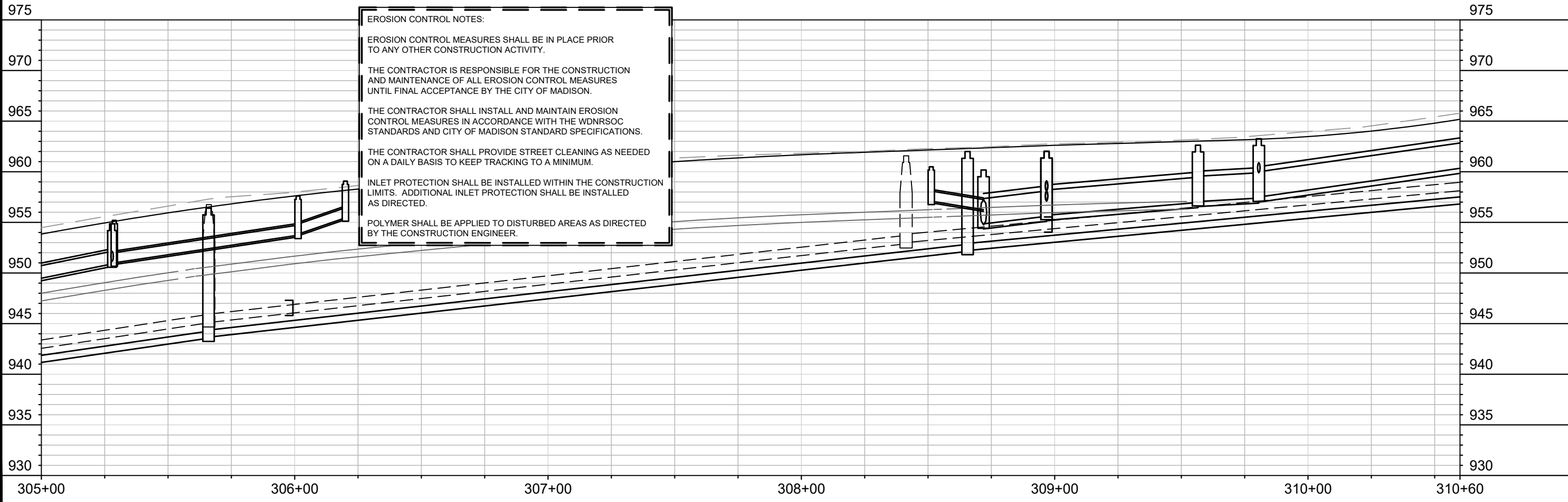
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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

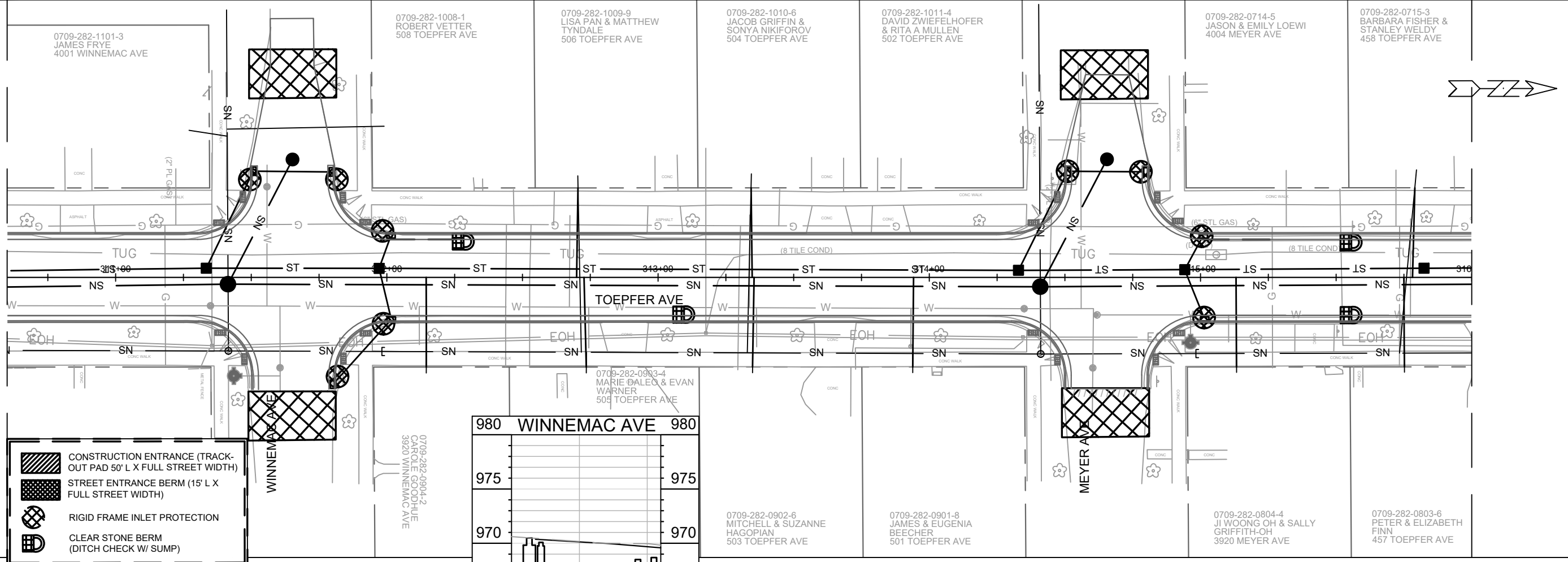


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3/16/20	3/16/20	DAO
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11744		EC-2

11744  
MADISON, WI  
CONTRACT NO: 8306

EROSION CONTROL  
TOEPPER AVE  
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11744  
EC-2



- CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
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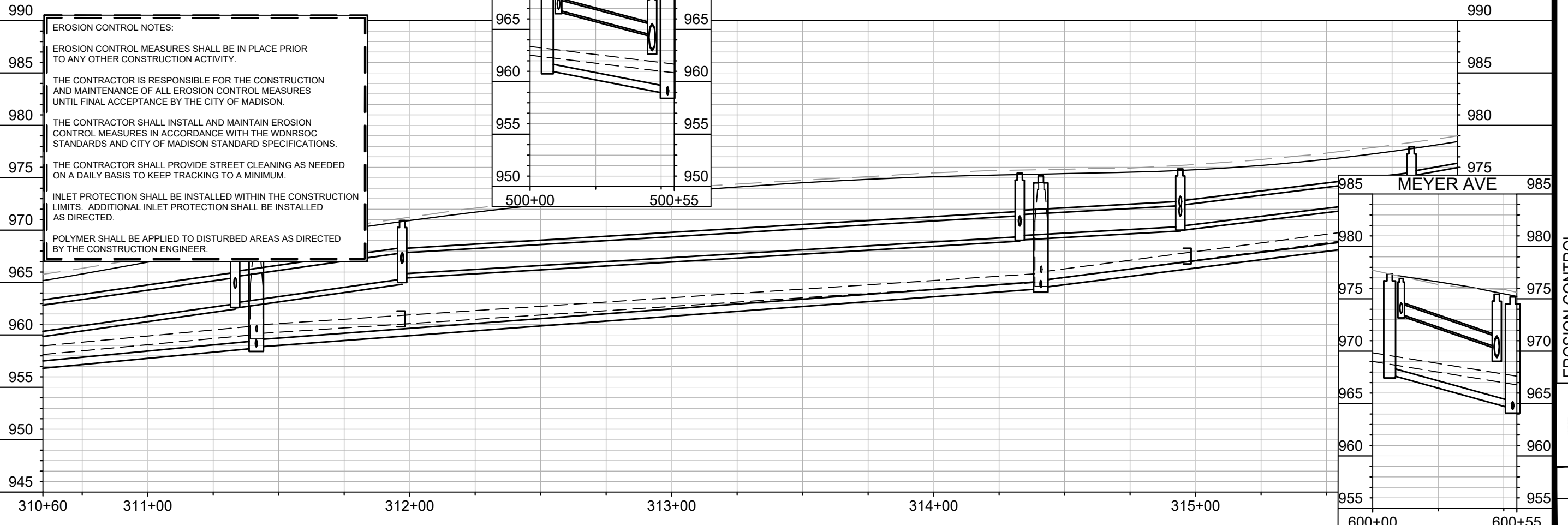
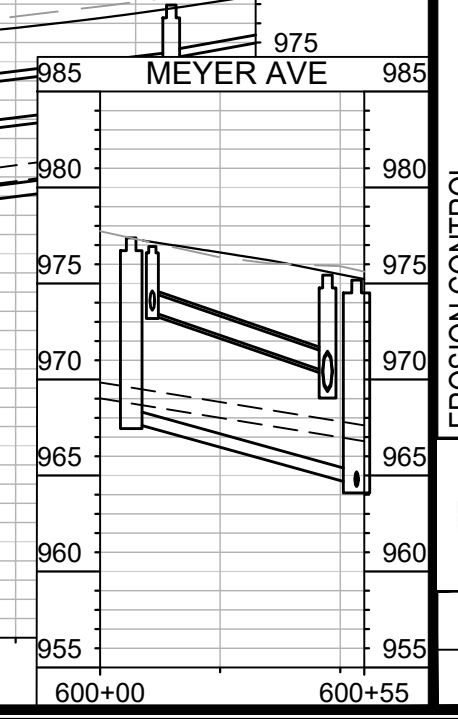
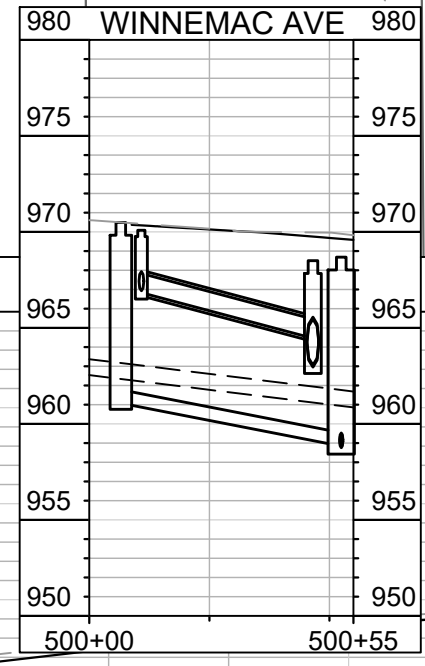
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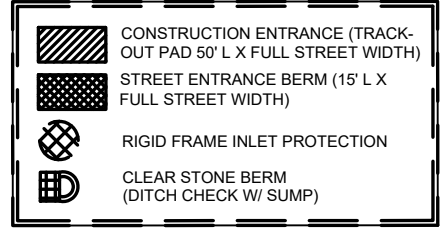
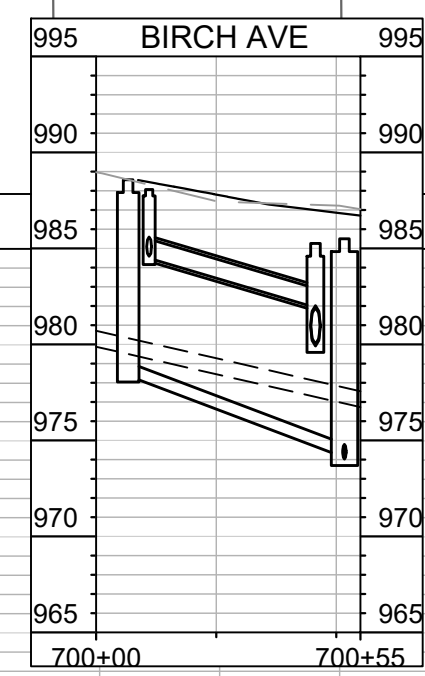
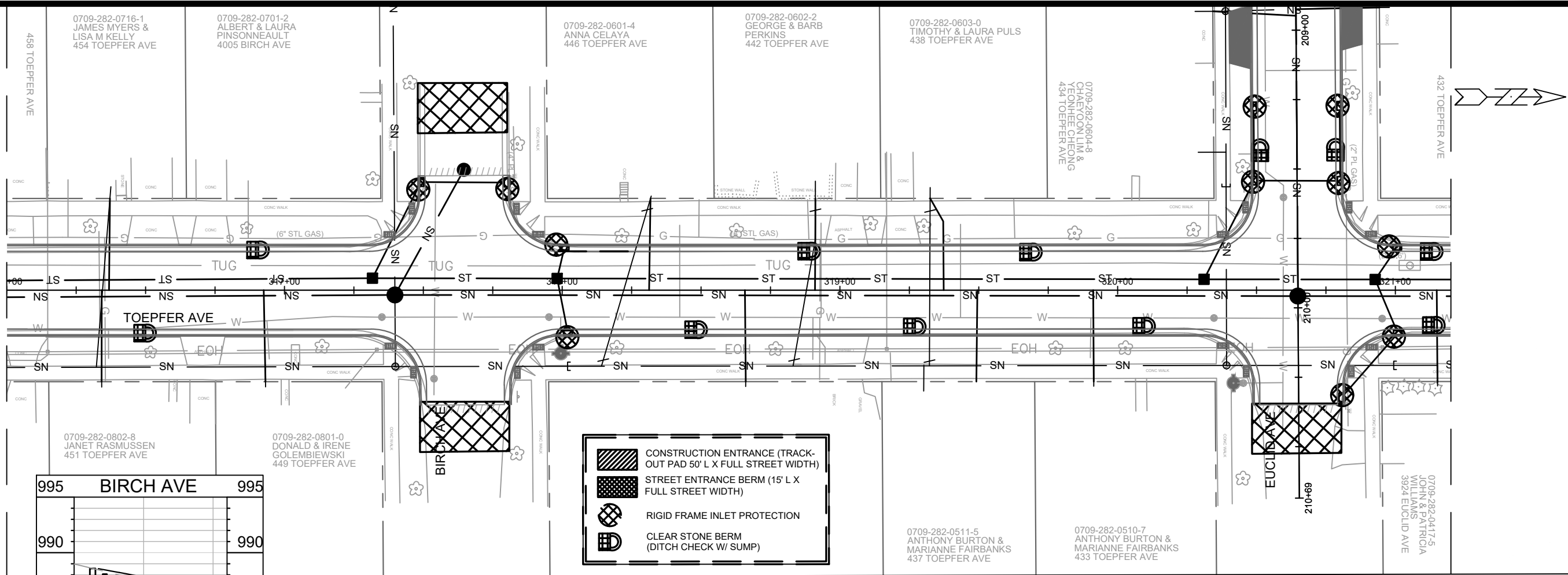
INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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



11744	MADISON, WI	8306
CONTRACT NO:		
EROSION CONTROL		
TOEPPER AVE		
11744	EC-3	

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 Date: 3/16/20  
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 EC-3



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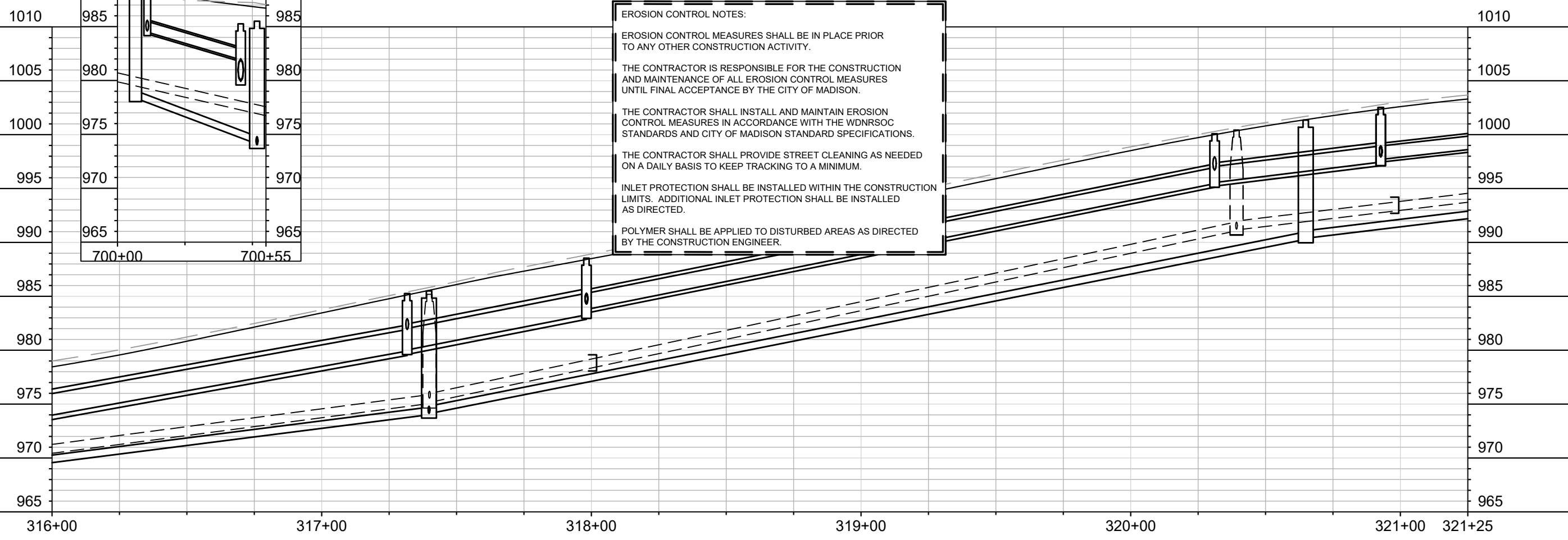
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PROJECT NO:	11744		
CONTRACT NO:	8306		
			EC-4

11744  
MADISON, WI  
CONTRACT NO: 8306

EROSION CONTROL  
TOEPFER AVE



11744  
EC-4

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0709-282-0301-0  
RIPPLE FAMILY LTD  
PARTNERSHIP  
432 TOEPFER AVE

0709-282-0302-8  
ORRIN & LEBRUNE  
CUTLER  
424 TOEPFER AVE





0709-282-0303-6  
RACHEL BOUJFLER  
418 TOEPFER AVE

0709-282-0211-1 ALAN  
SIDELLE  
4010 PAUNACK AVE

0709-282-0201-2  
CHARLES & NANCY  
HOWLAND  
4001 MINERAL POINT RD

0709-282-0112-1  
JEFF DEACETIS &  
MARLA RYBOWIAK  
3926 PAUNACK AVE

0709-282-0111-3  
MARY WILLIAMSON  
401 TOEPFER AVE

-  CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
-  STREET ENTRANCE BERM (15' L X FULL STREET WIDTH)
-  RIGID FRAME INLET PROTECTION
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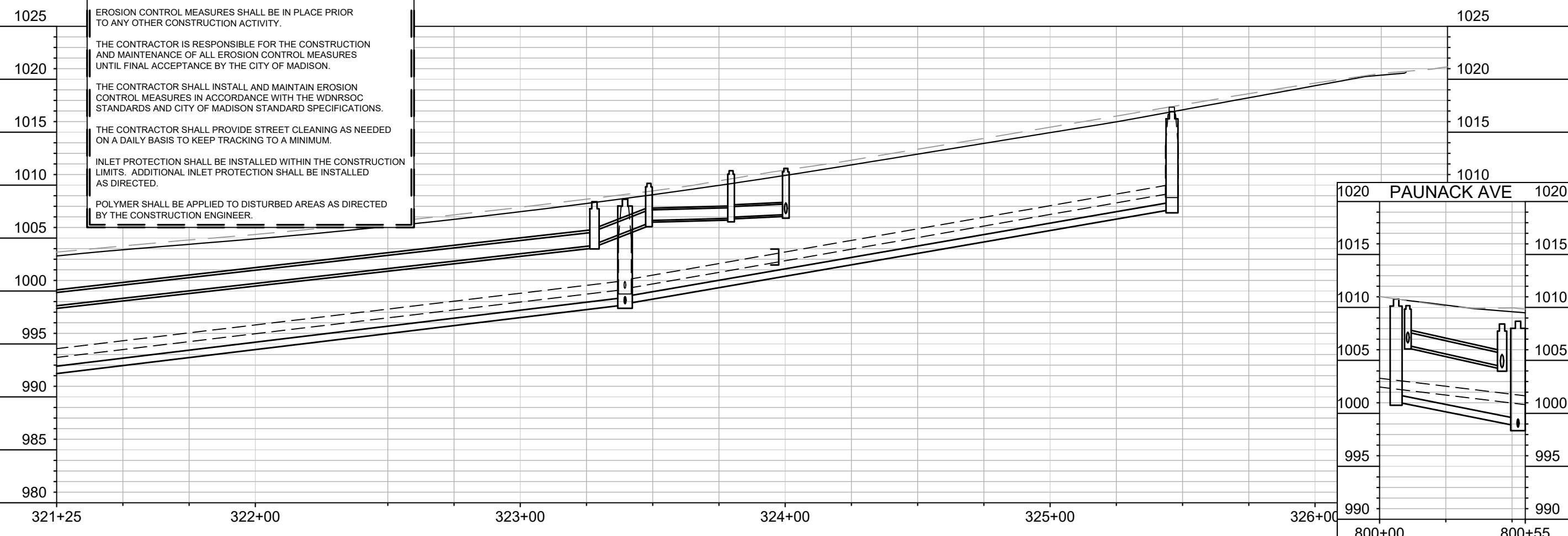
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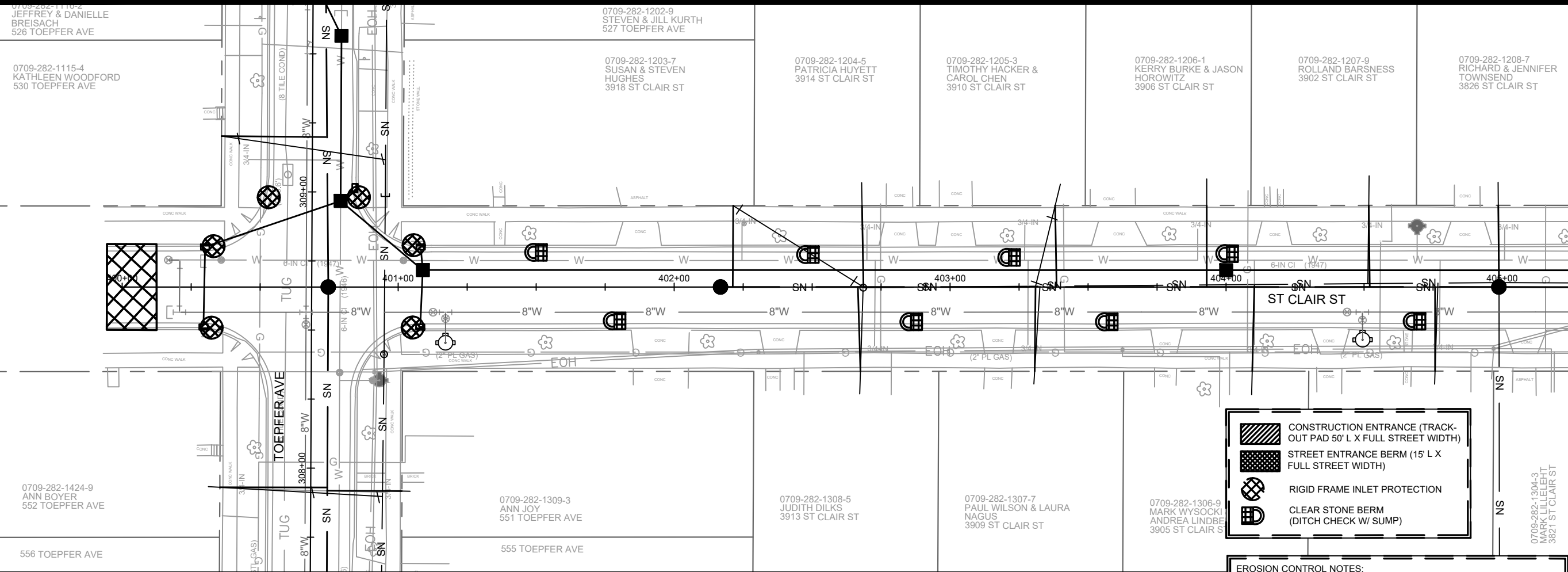
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11744  
MADISON, WI  
CONTRACT NO: 8306

EROSION CONTROL  
TOEPFER AVE  
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11744  
EC-5



MATCH LINE 405+25.00

	CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
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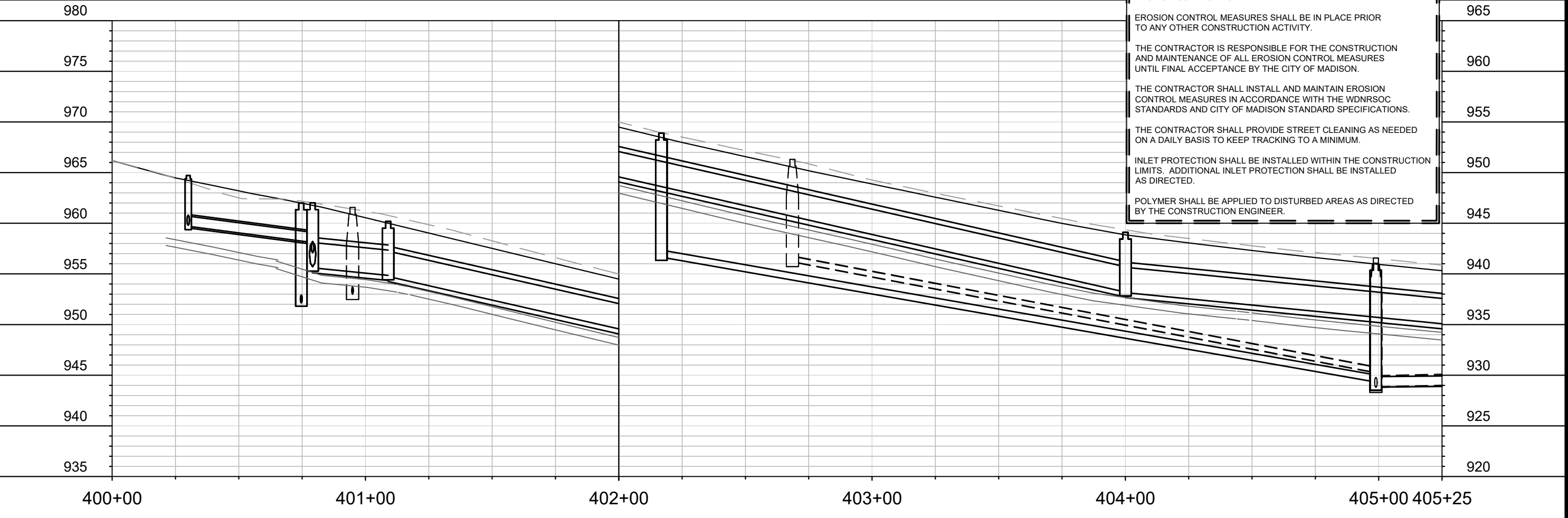
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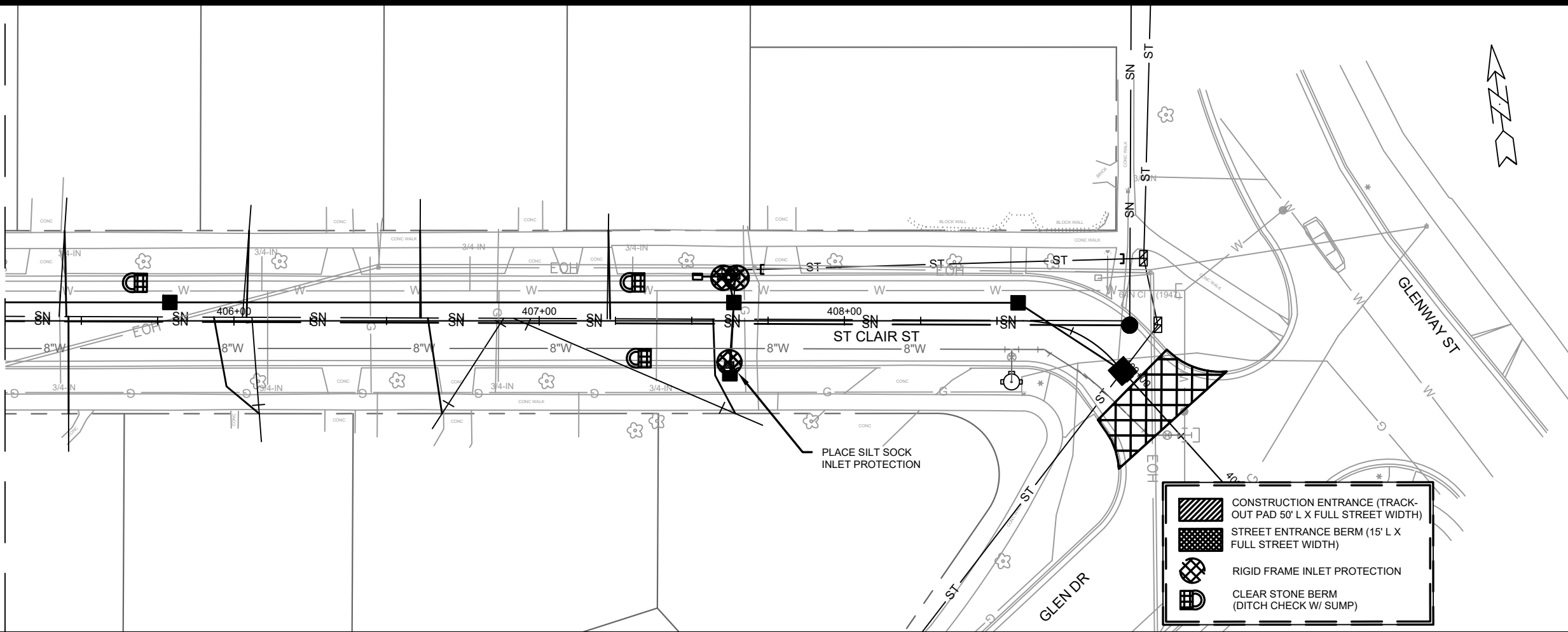
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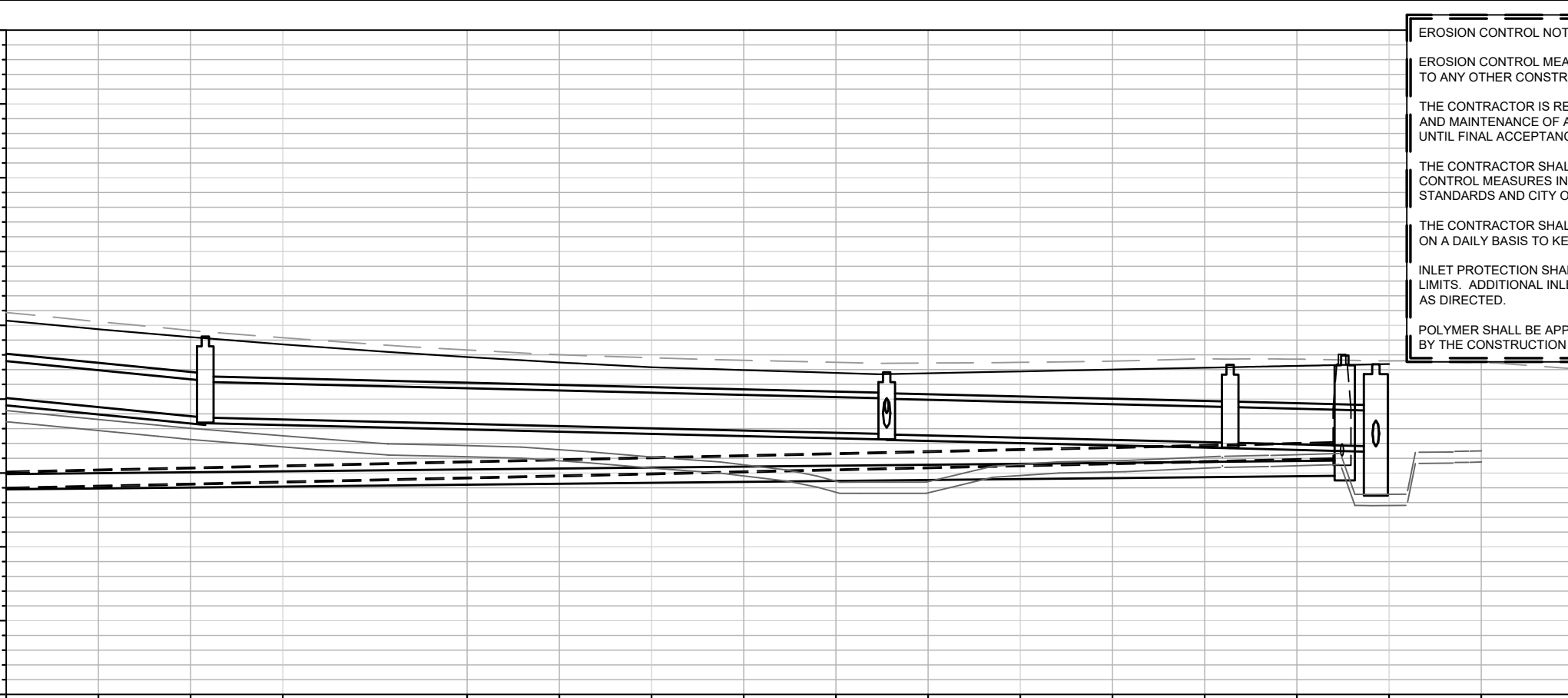
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8306	8306	8306	8306
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MATCH LINE 405+25.00



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960  
955  
950  
945  
940  
935  
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915



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935  
930  
925  
920  
915

405+25      406+00      407+00      408+00      409+00      409+50

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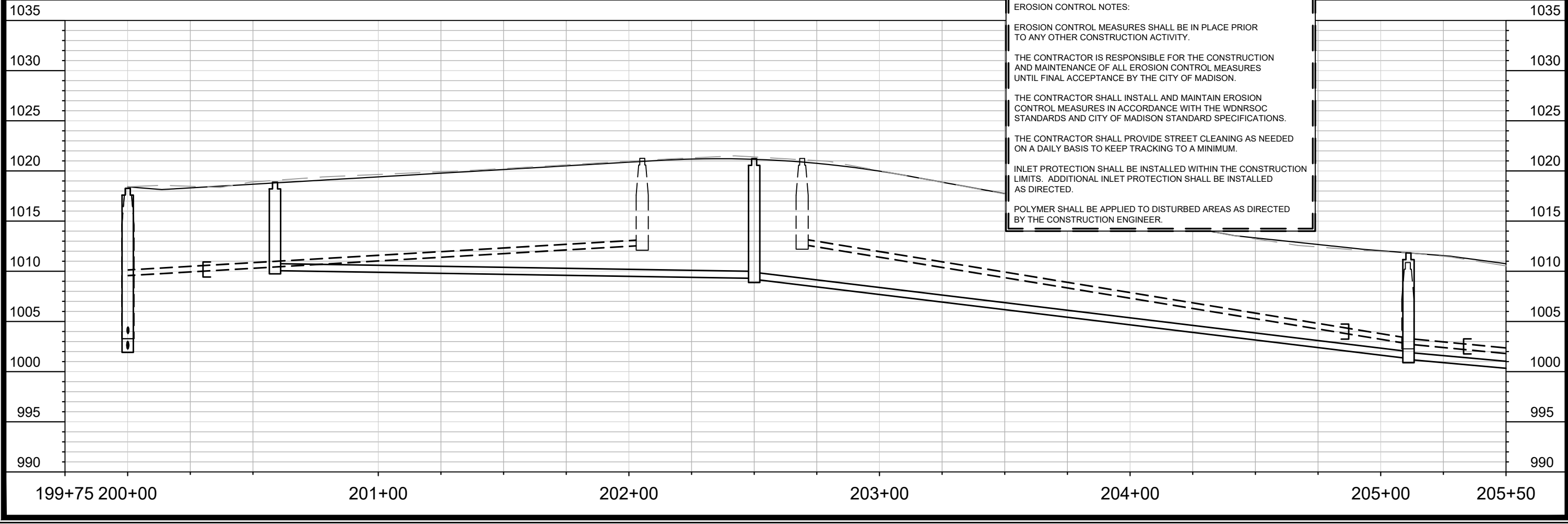
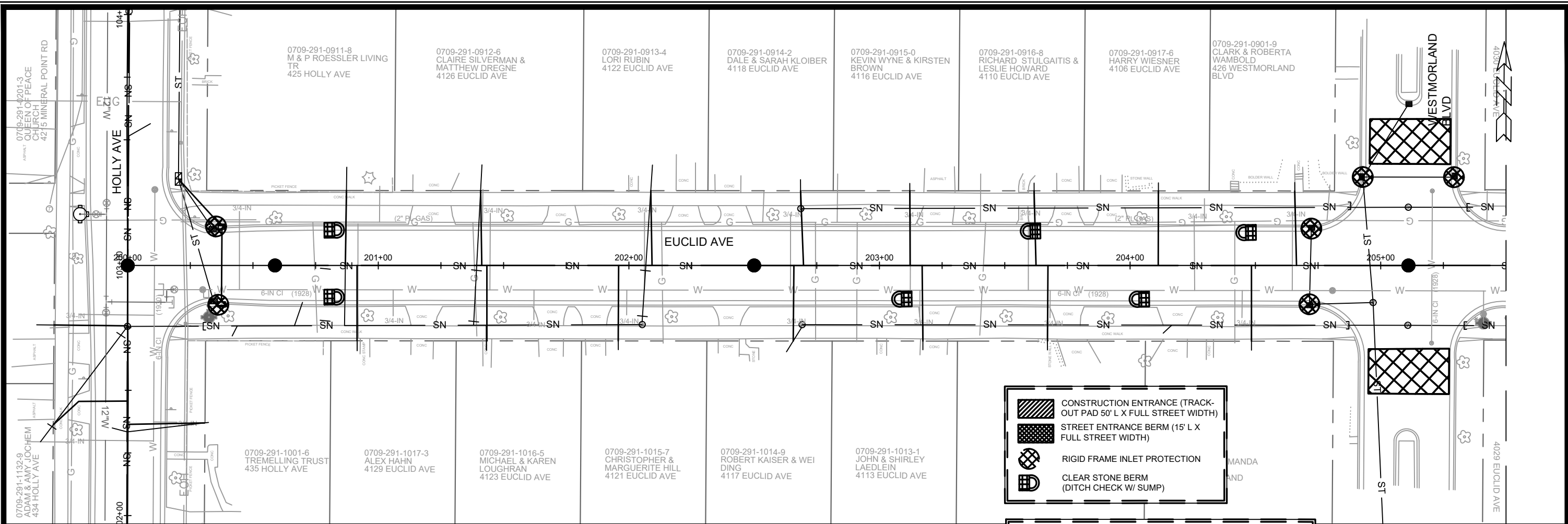
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MADISON, WI  
8306  
CONTRACT NO:

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EC-7





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11744			EC-8

11744	8306
MADISON, WI	CONTRACT NO:

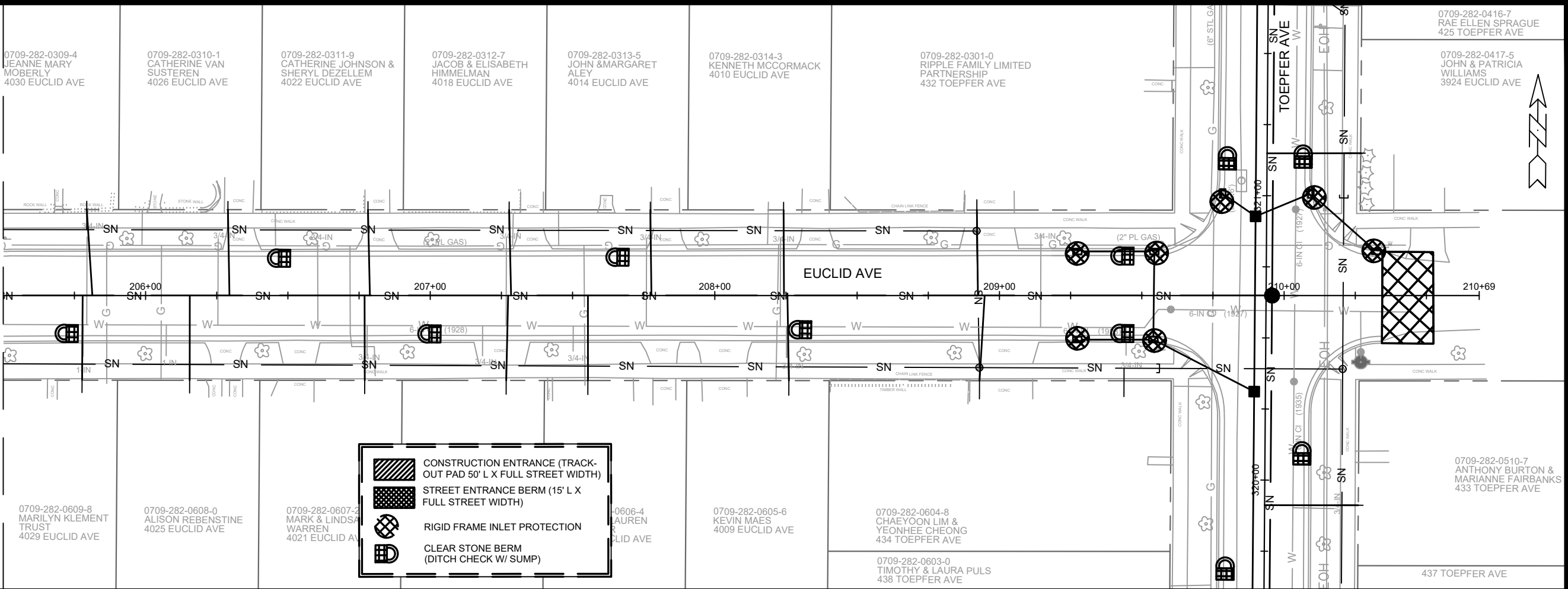
  





EROSION CONTROL	11744
EUCLID AVE	
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	11744
	EC-8

MATCH LINE 205+50.00



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

**EROSION CONTROL NOTES:**

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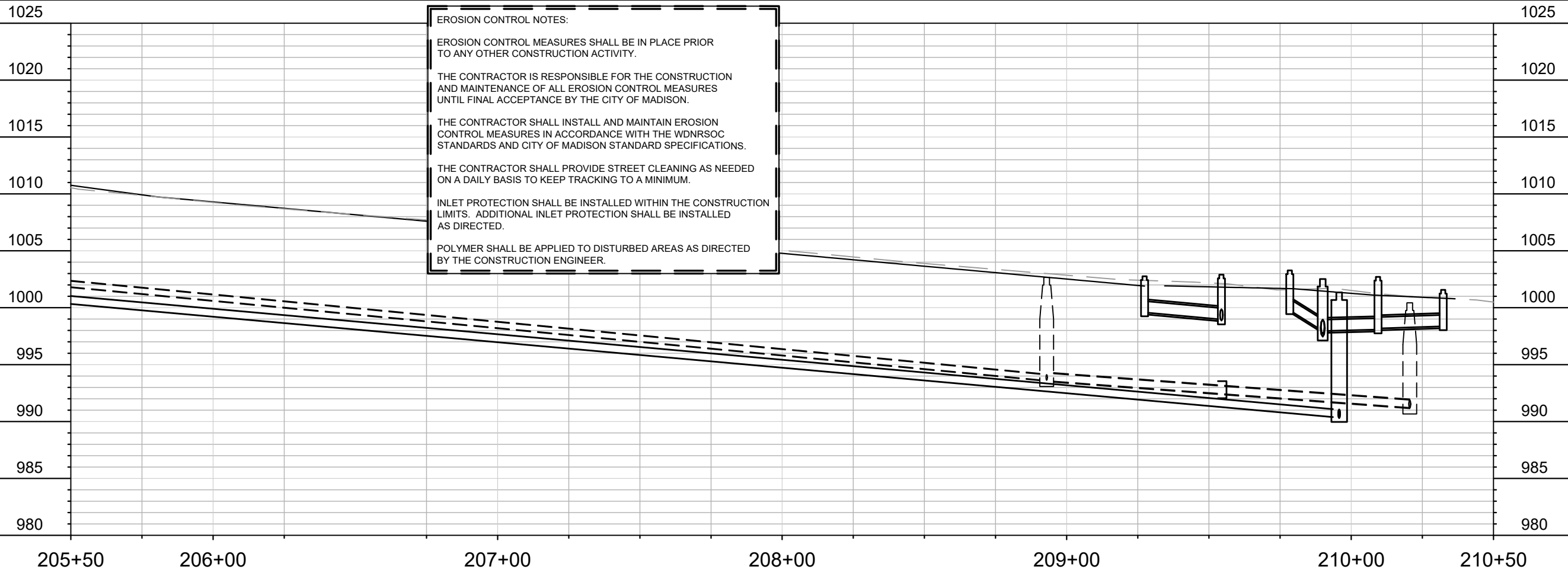
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Designed By: 11744			Scale: 1" = 40'
Date: 3/16/2020 4:58 PM			EC-9

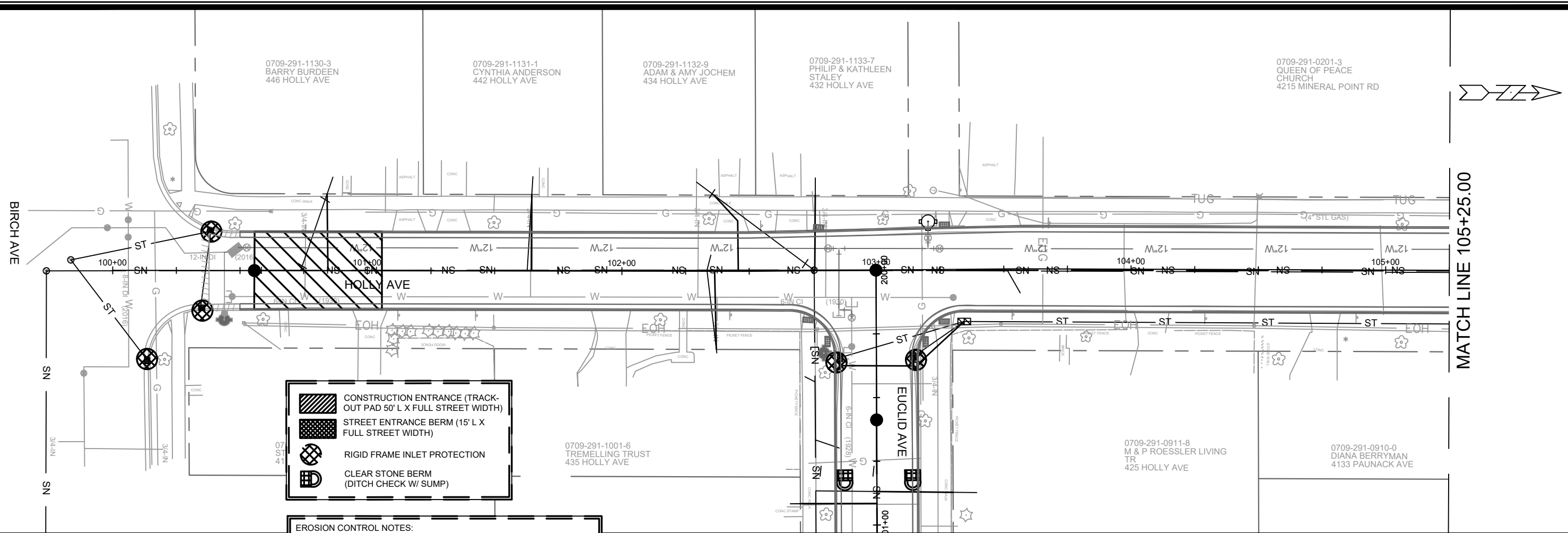
11744  
MADISON, WI  
8306  
CONTRACT NO:





EROSION CONTROL  
EUCLID AVE

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11744  
EC-9



-  CONSTRUCTION ENTRANCE (TRACK-OUT PAD 50' L X FULL STREET WIDTH)
-  STREET ENTRANCE BERM (15' L X FULL STREET WIDTH)
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EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

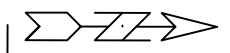
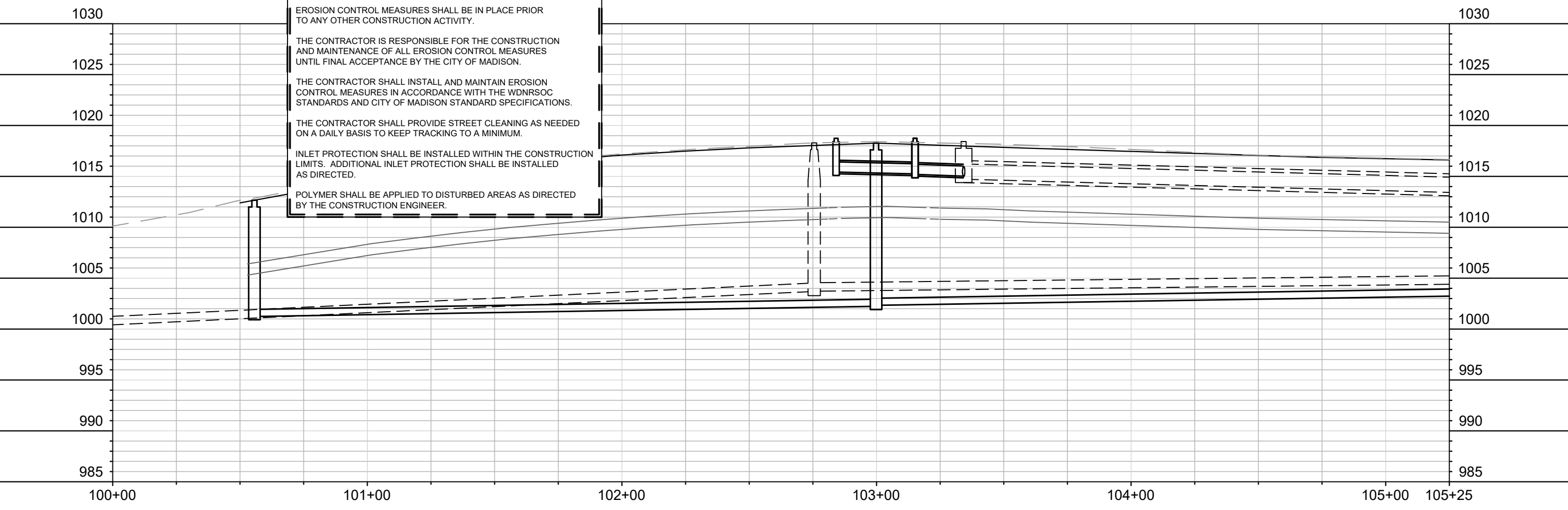
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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



MATCH LINE 105+25.00

MARK	REVISION	DATE	BY
	1	3/16/2023	16/20
Designed By: ##			Scale: 1" = 40'
11744			EC-10

11744  
MADISON, WI  
8306  
CONTRACT NO:

EROSION CONTROL  
HOLLY AVE  
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_EC Layout (Toepfer Holly).dwg

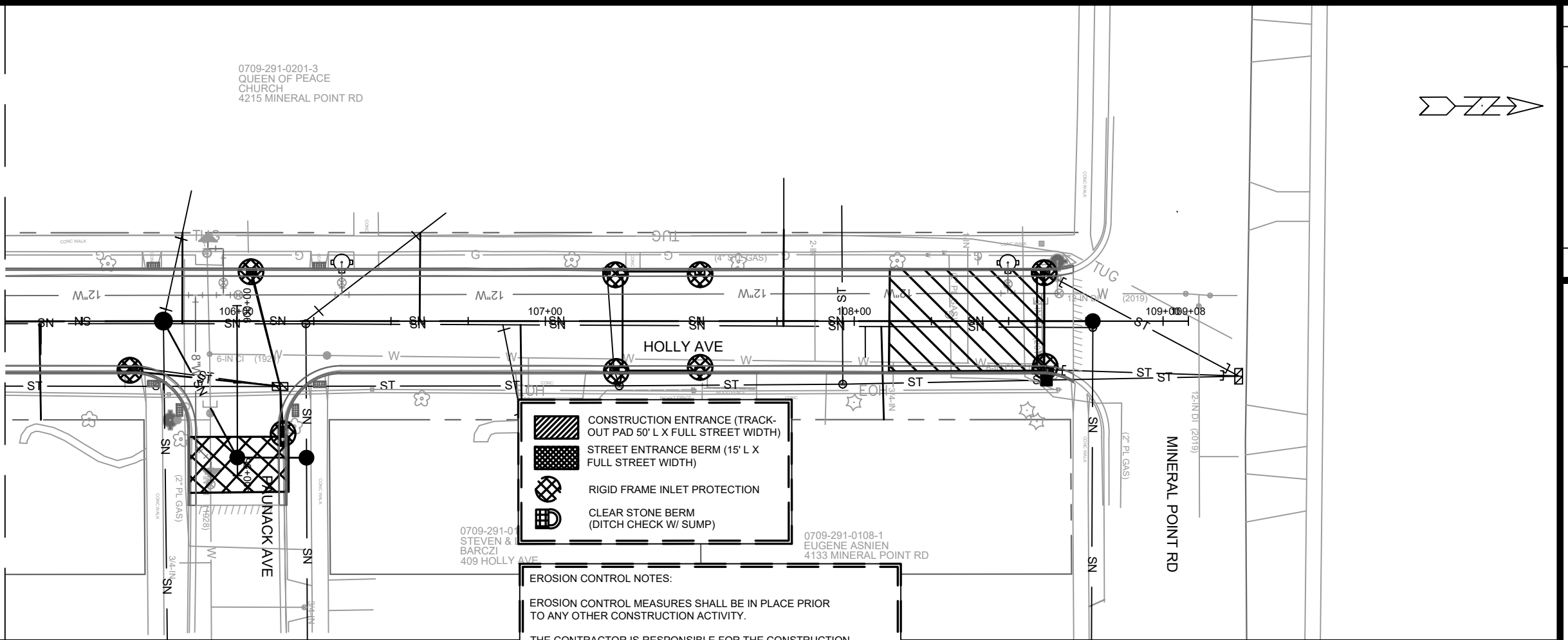


11744  
EC-10



0709-291-0201-3  
 QUEEN OF PEACE  
 CHURCH  
 4215 MINERAL POINT RD

MATCH LINE 105+25.00



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

**EROSION CONTROL NOTES:**

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

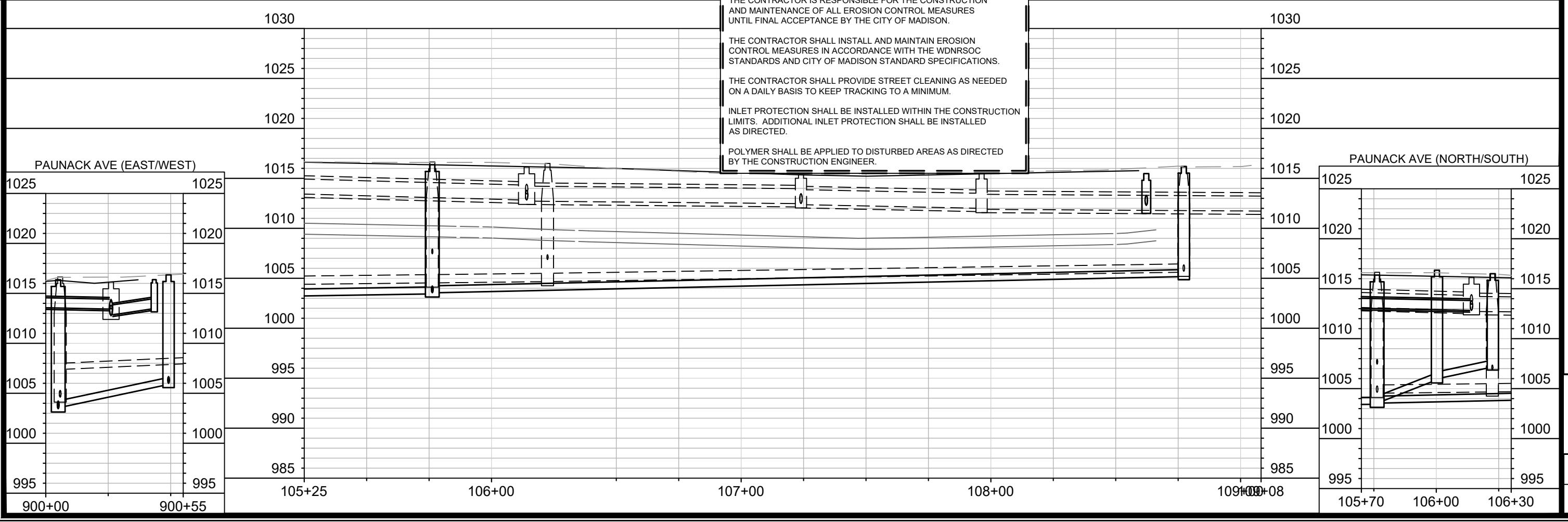
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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EROSION CONTROL		
HOLLY AVE		
11744	MADISON, WI	CONTRACT NO: 8306
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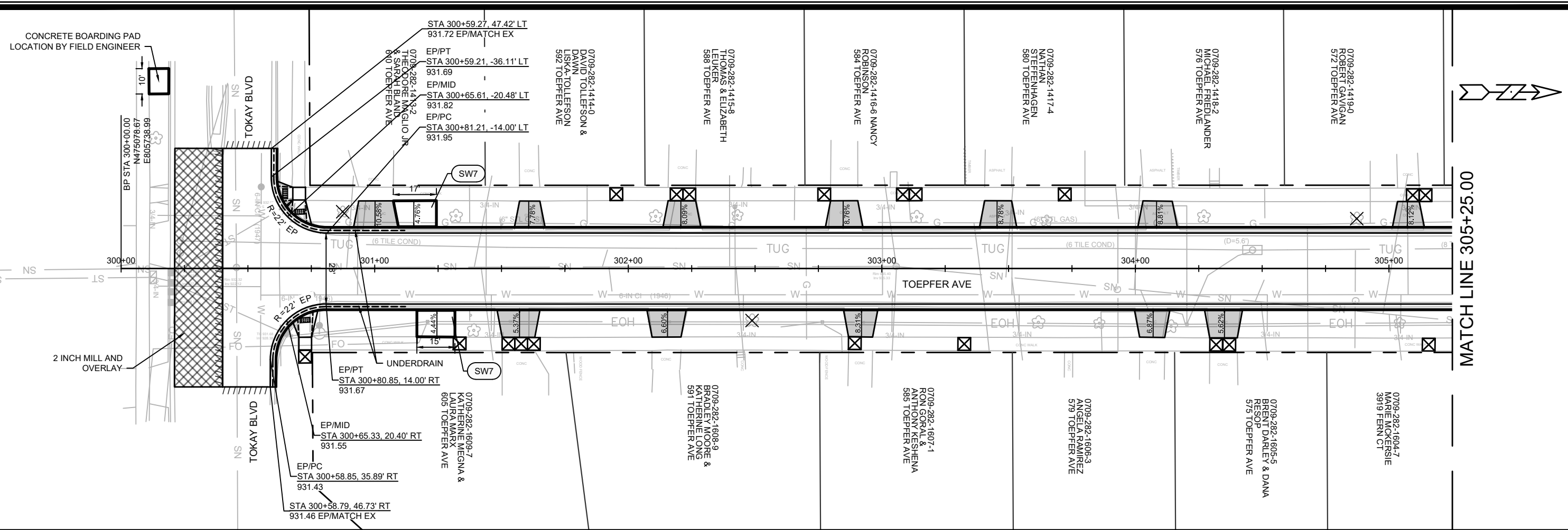
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Scale: 1" = 40'

Designed By: 11744

Date: 3/16/2020 5:00 PM

REVISION 1  
 REVISION DATE BY  
 3/16/20 DAO



MARK	REVISION	DATE	BY

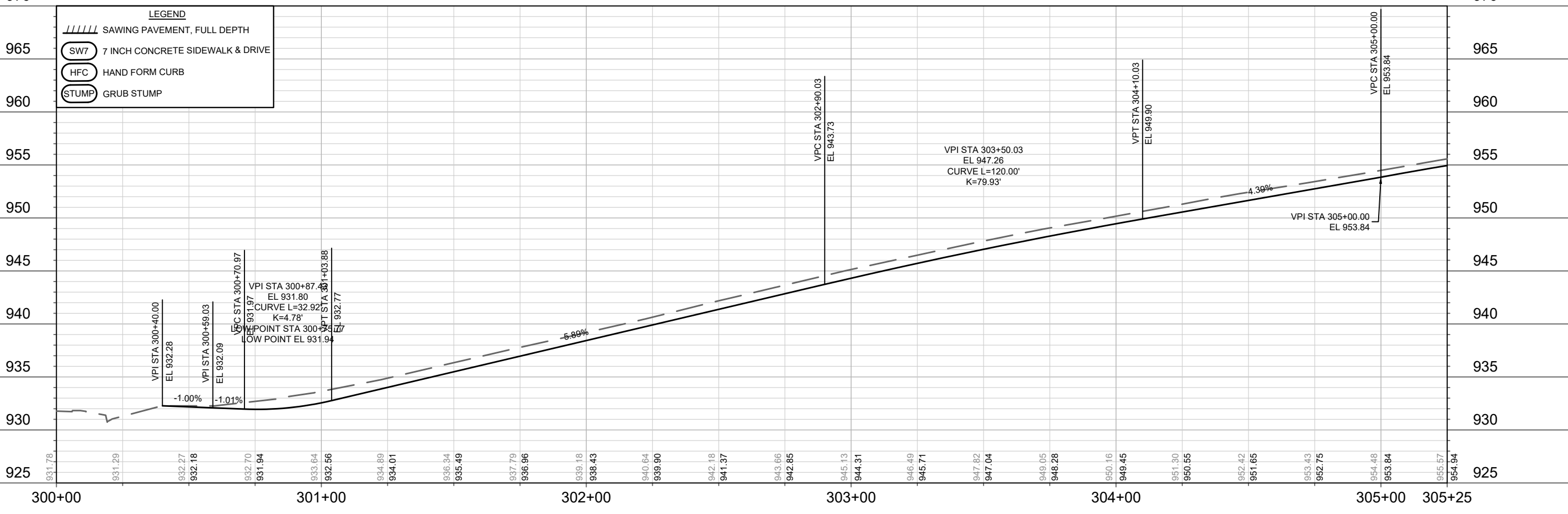
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Designed By: ##  
11744

Contract No: 8306

P-1

11744  
MADISON, WI  
CONTRACT NO: 8306

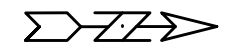
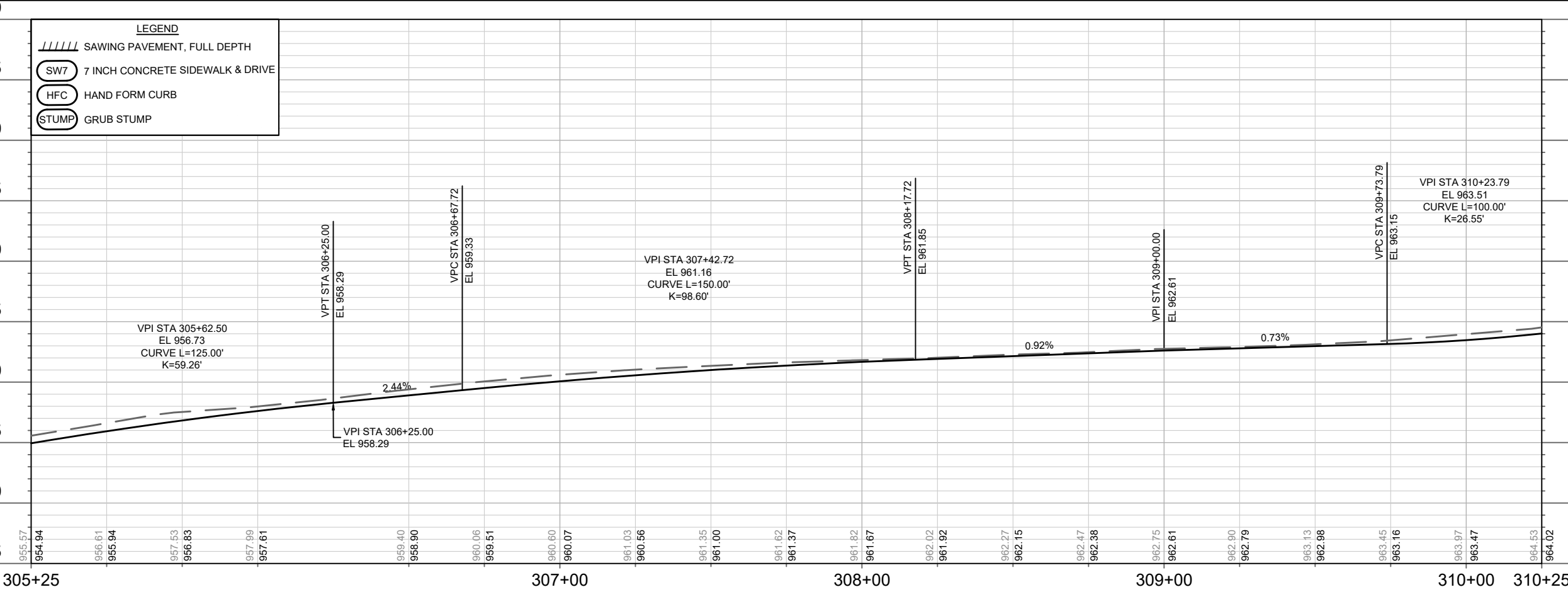
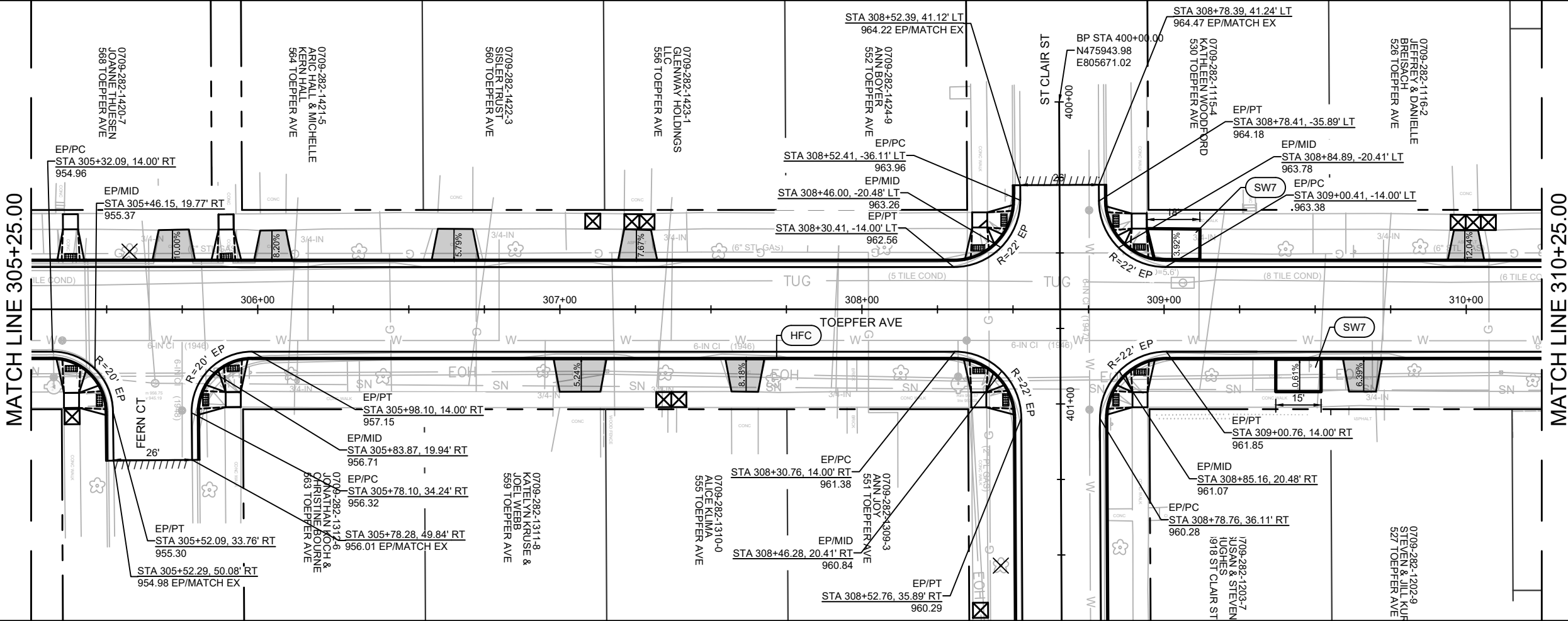


PLAN AND PROFILE - STREETS  
TOEPFER AVE



11744  
P-1

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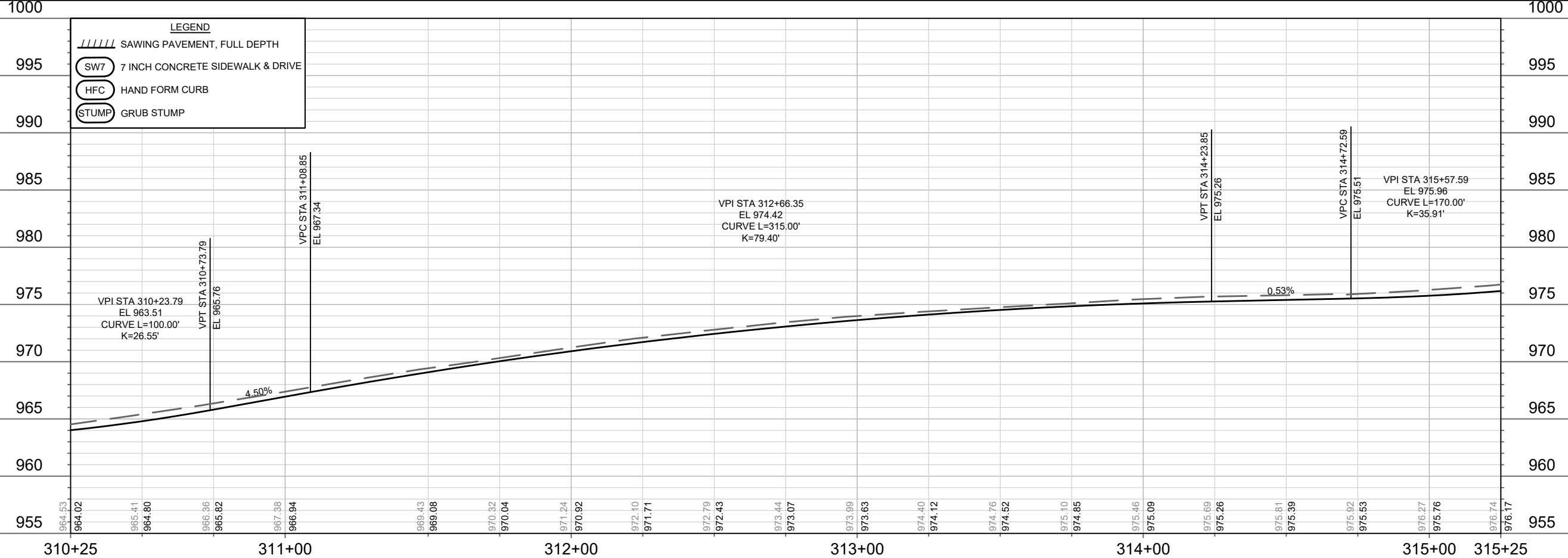
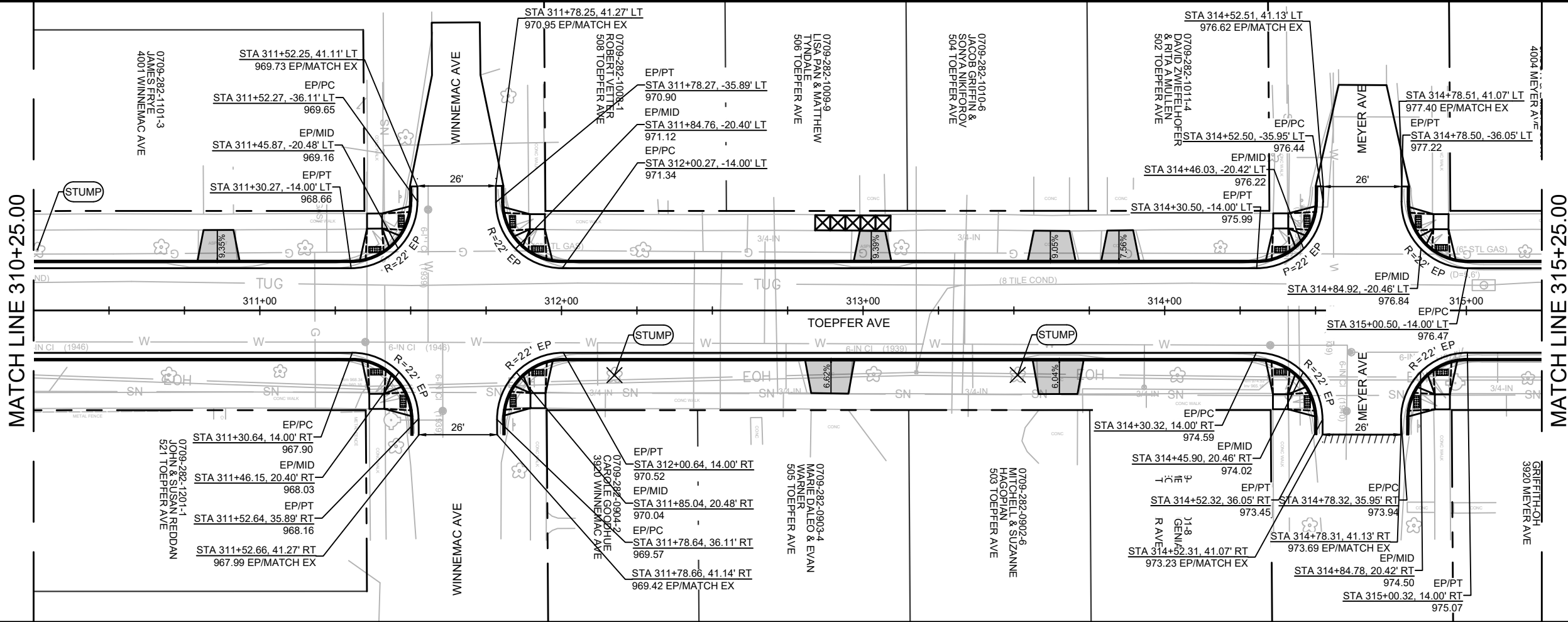
DATE	BY
REVISION	BY
DESIGNED BY: ##	11744
CONTRACT NO:	8306
Scale:	1" = 40'
Sheet:	P-2

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - STREETS  
TOEPFER AVE



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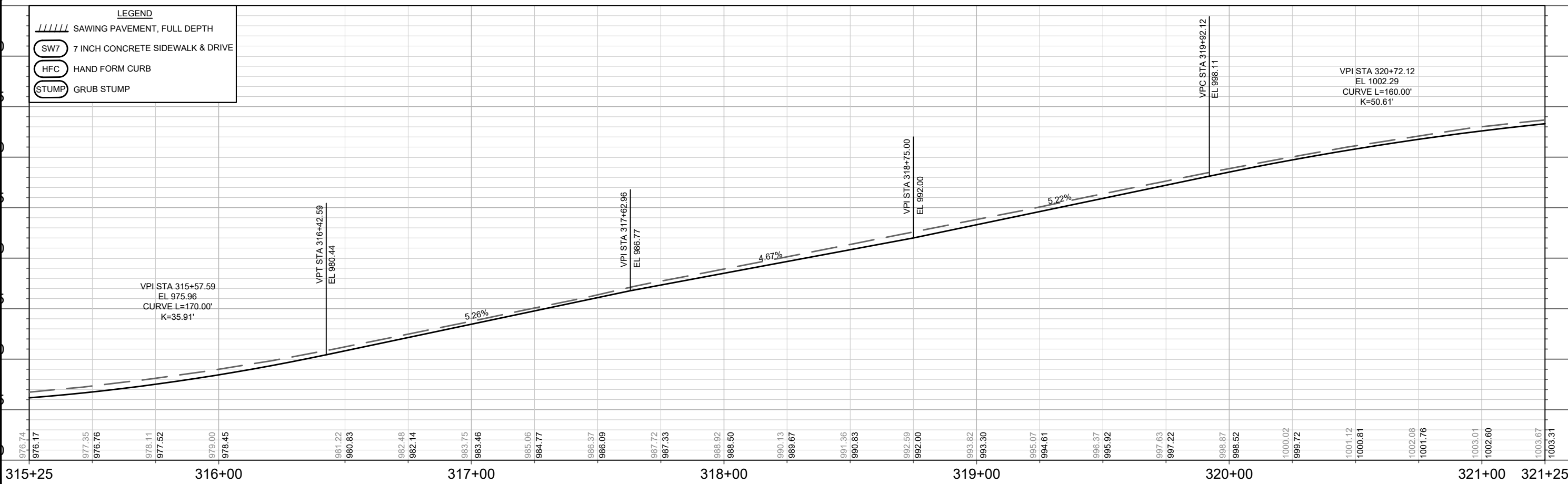
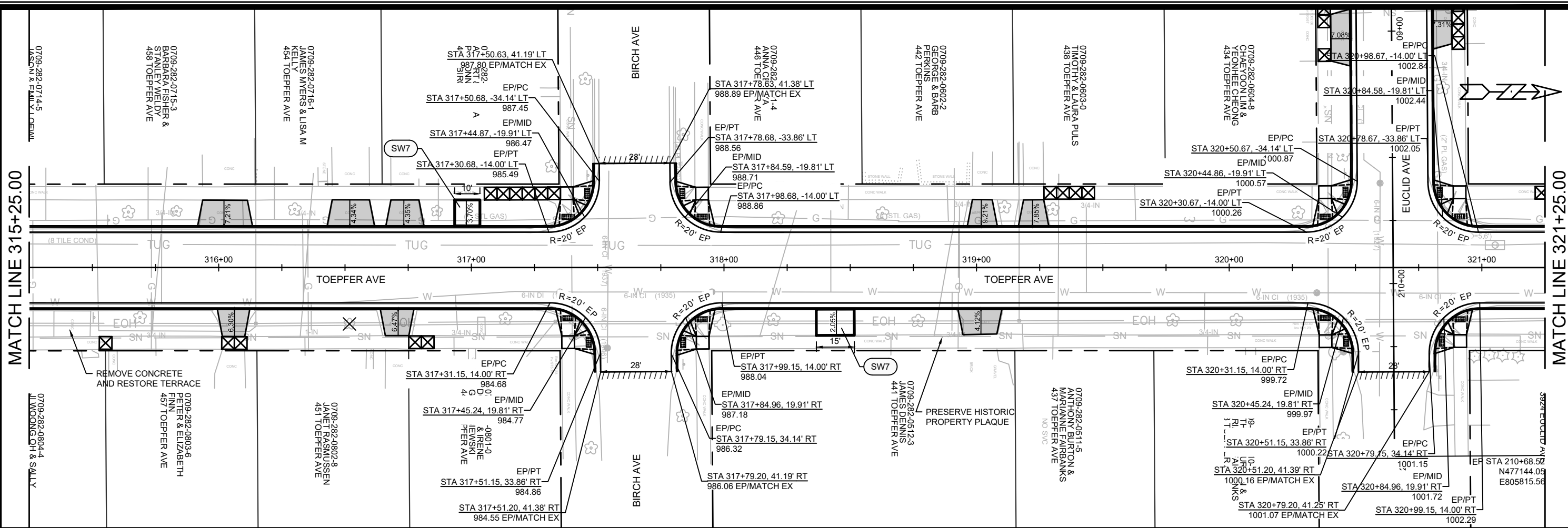
**LEGEND**

	SAWING PAVEMENT, FULL DEPTH
	7 INCH CONCRETE SIDEWALK & DRIVE
	HAND FORM CURB
	GRUB STUMP

DATE	BY
REVISION	
MARK	11744
DESIGNED BY: ##	11744
Scale:	1" = 40'
Contract No:	8306
Project No:	11744
Sheet No:	P-3

11744  
MADISON, WI  
CONTRACT NO: 8306  
PLAN AND PROFILE - STREETS  
TOEPFER AVE  
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11744  
P-3



**LEGEND**

- SAWING PAVEMENT, FULL DEPTH
- 7 INCH CONCRETE SIDEWALK & DRIVE
- HAND FORM CURB
- GRUB STUMP

MARK	REVISION	DATE	BY

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - STREETS  
TOEPFER AVE

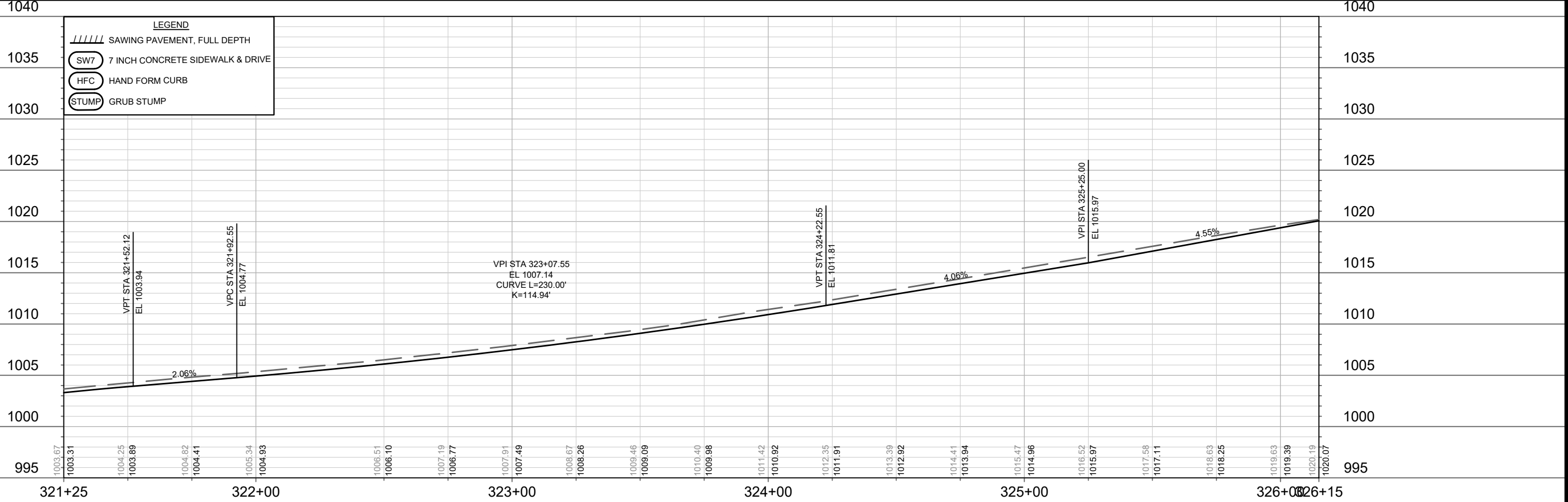
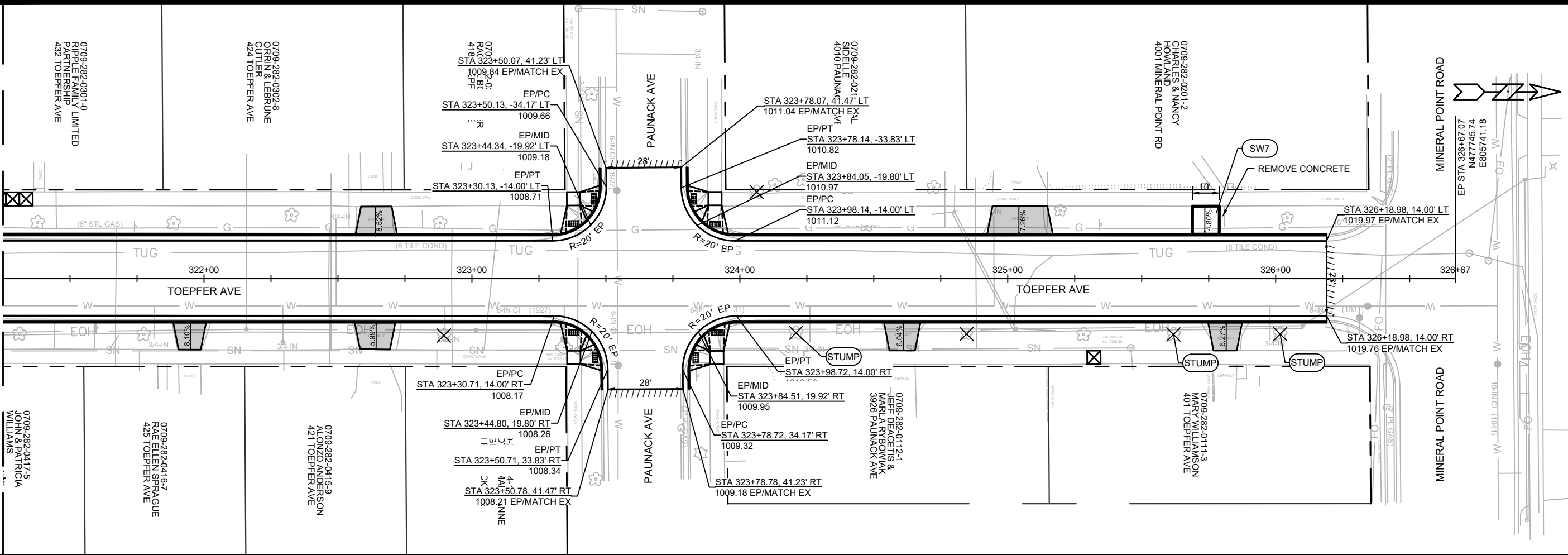


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Designed By: 11744  
Date: 3/16/2020 6:09 PM



MATCH LINE 321+25.00



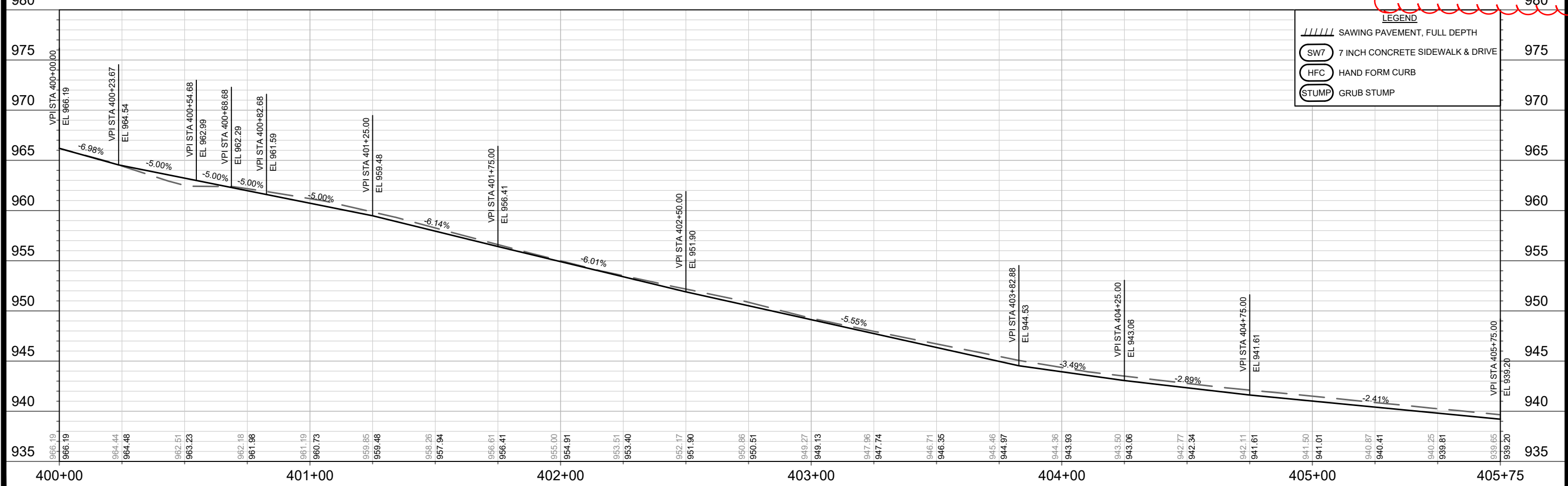
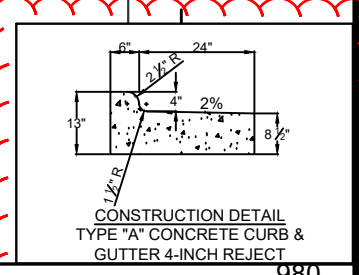
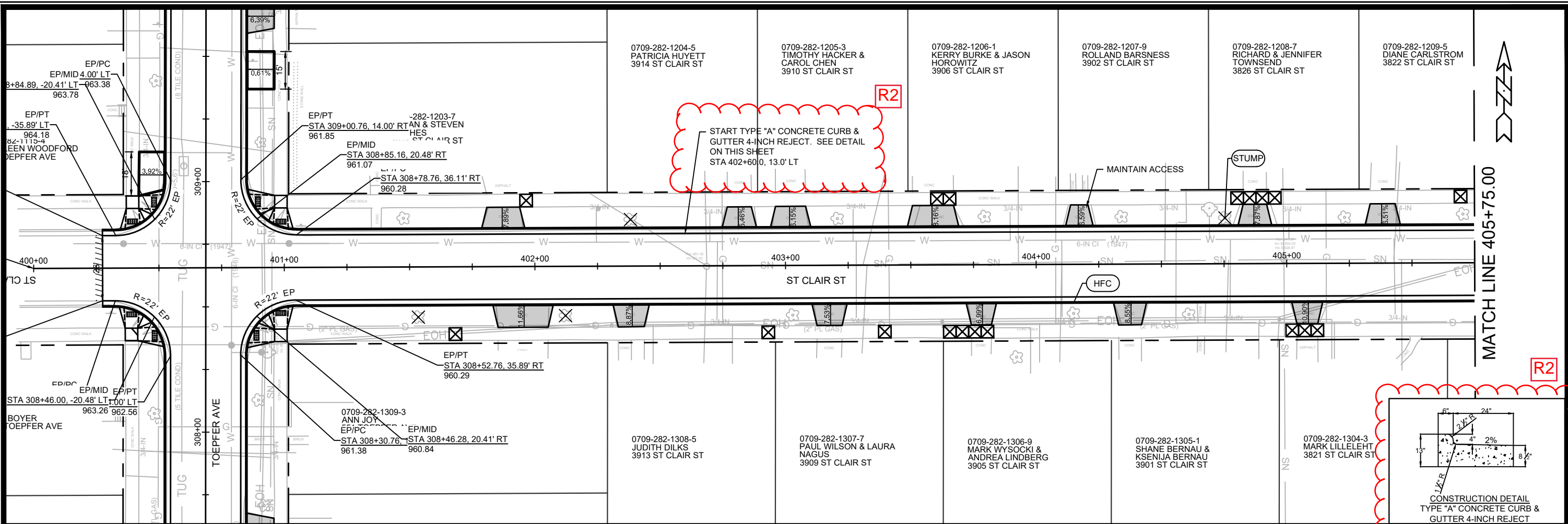
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REVISION	BY
MARK	DATE
11744	3/16/2020 6:09 PM
Scale: 1" = 40'	

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - STREETS  
TOEPPER AVE

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11744  
P-5



**LEGEND**

- SAWING PAVEMENT, FULL DEPTH
- 7 INCH CONCRETE SIDEWALK & DRIVE
- HAND FORM CURB
- GRUB STUMP

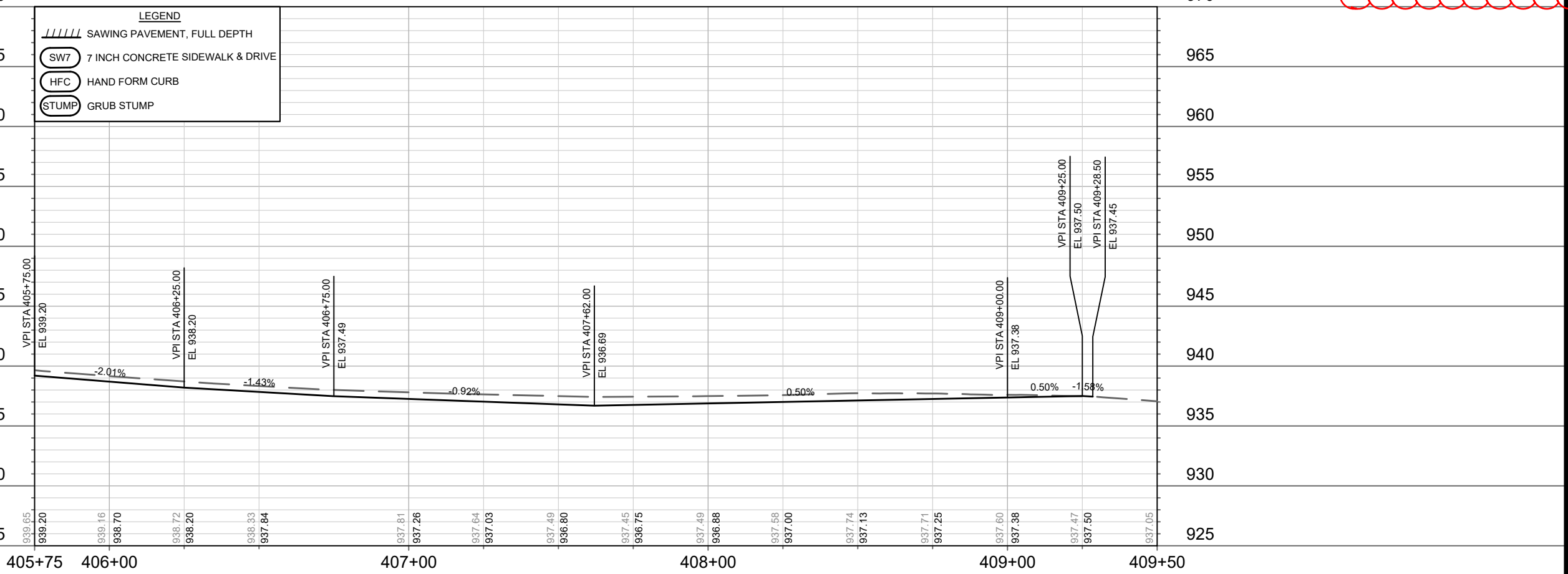
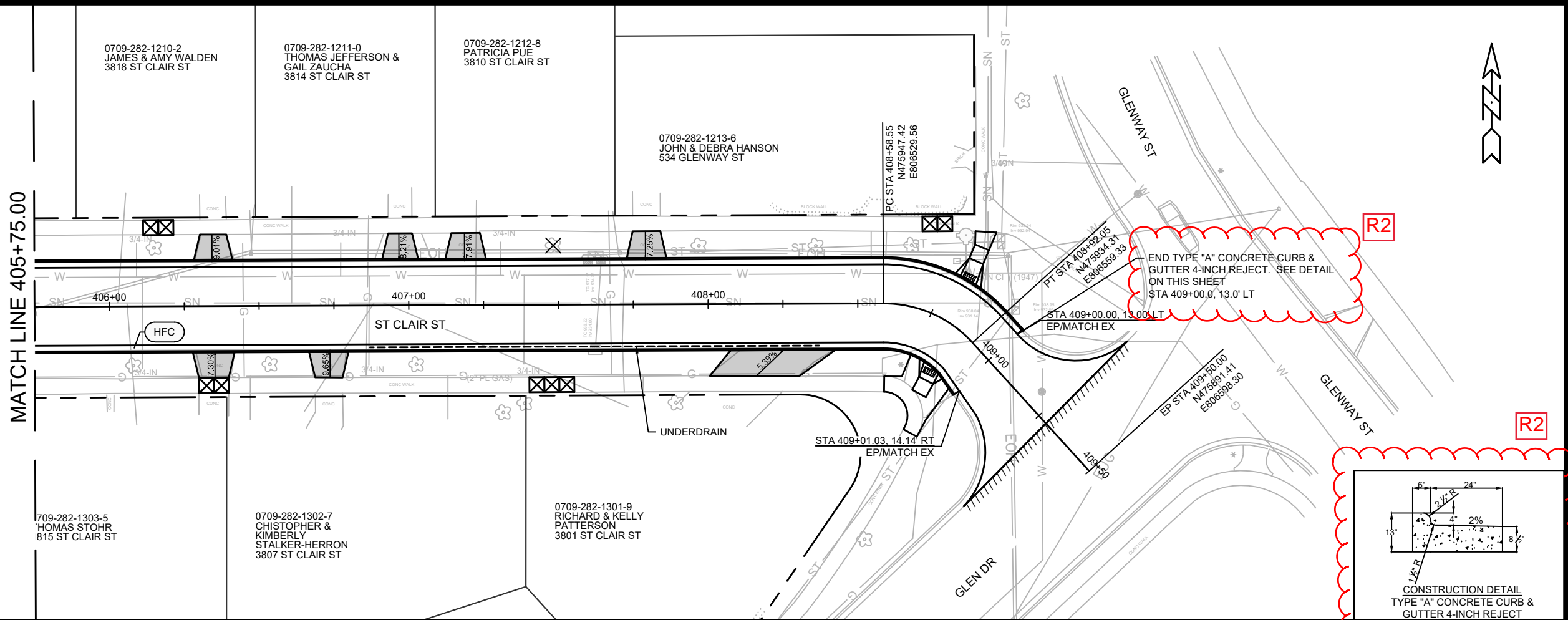
MARK	REVISION	DATE	BY

Scale: 1" = 40'

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Date: 6/17/2020 11:31 AM

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - STREETS  
ST CLAIR ST  
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REVISION	BY
Designed By: ##	Date: 6/17/2020 11:32 AM
11744	Scale: 1" = 40'
11744	P-7

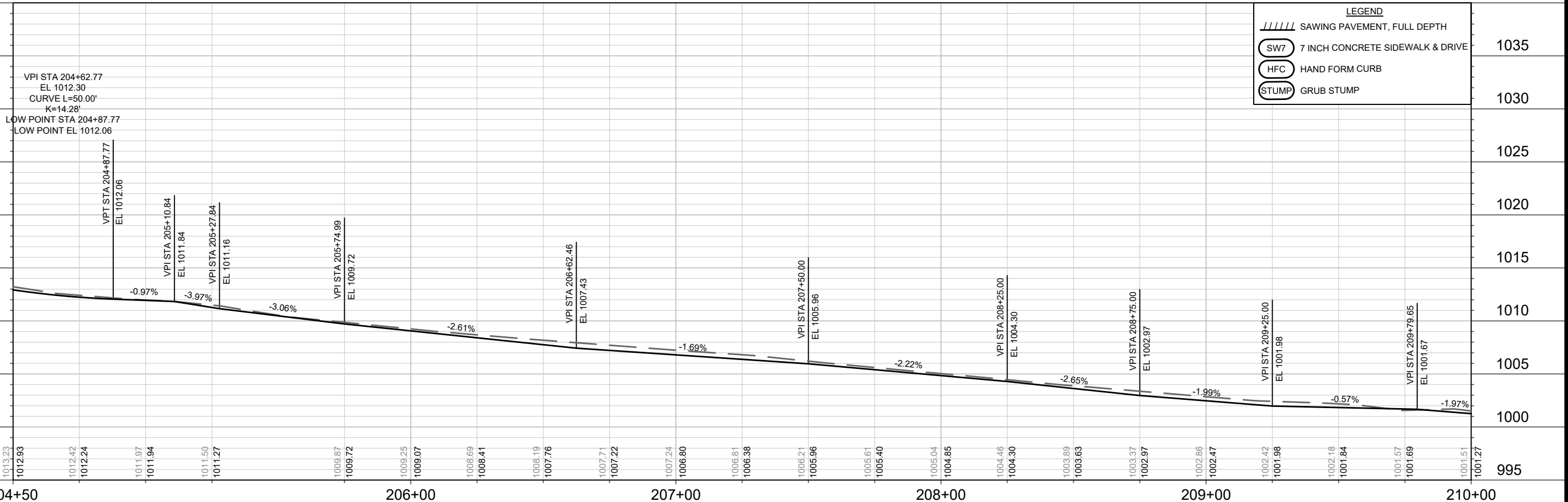
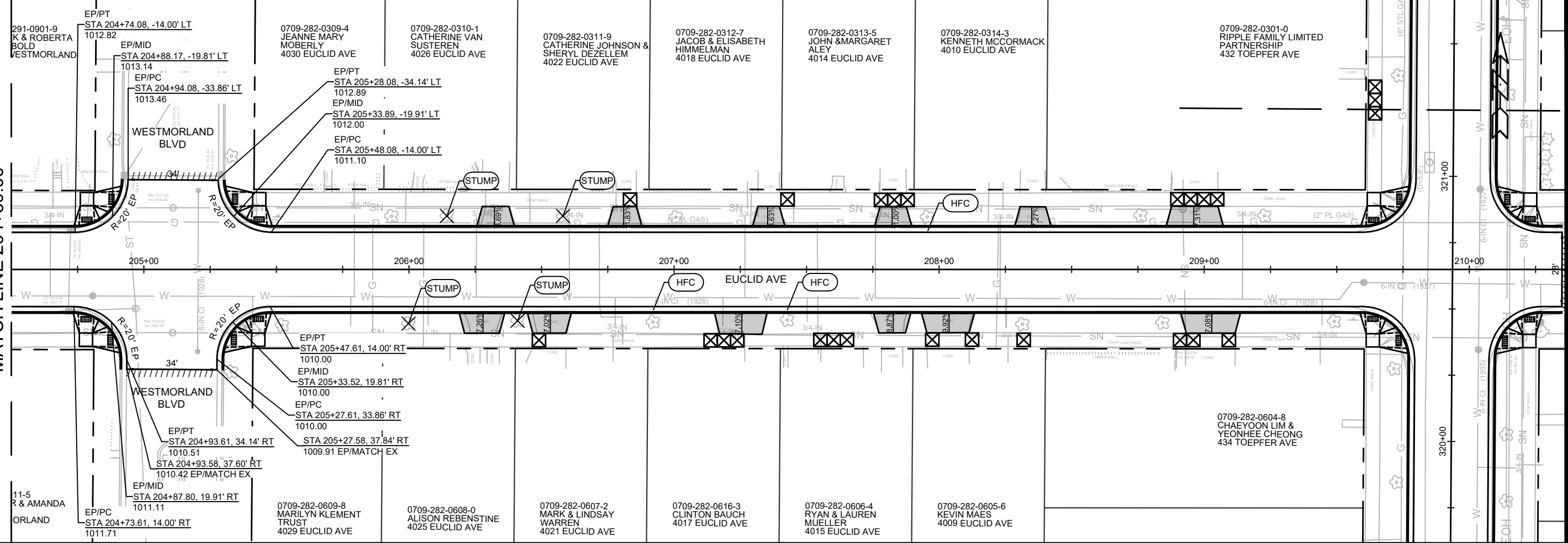
11744  
MADISON, WI  
8306  
CONTRACT NO:

PLAN AND PROFILE - STREETS  
ST CLAIR ST

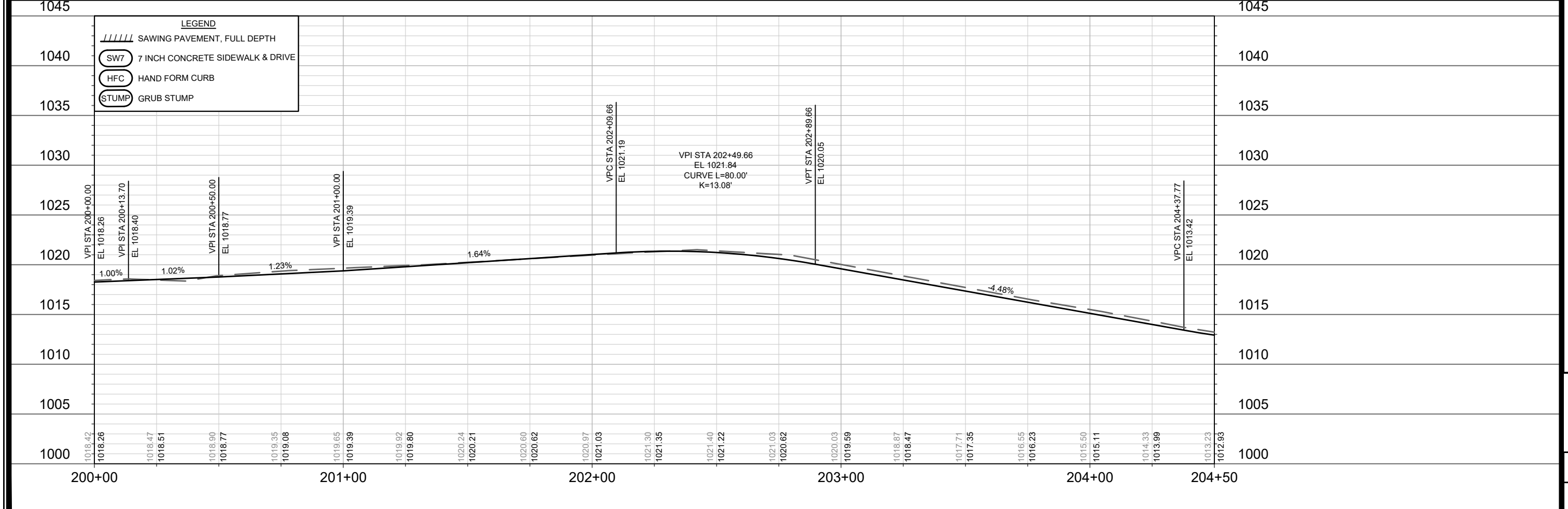
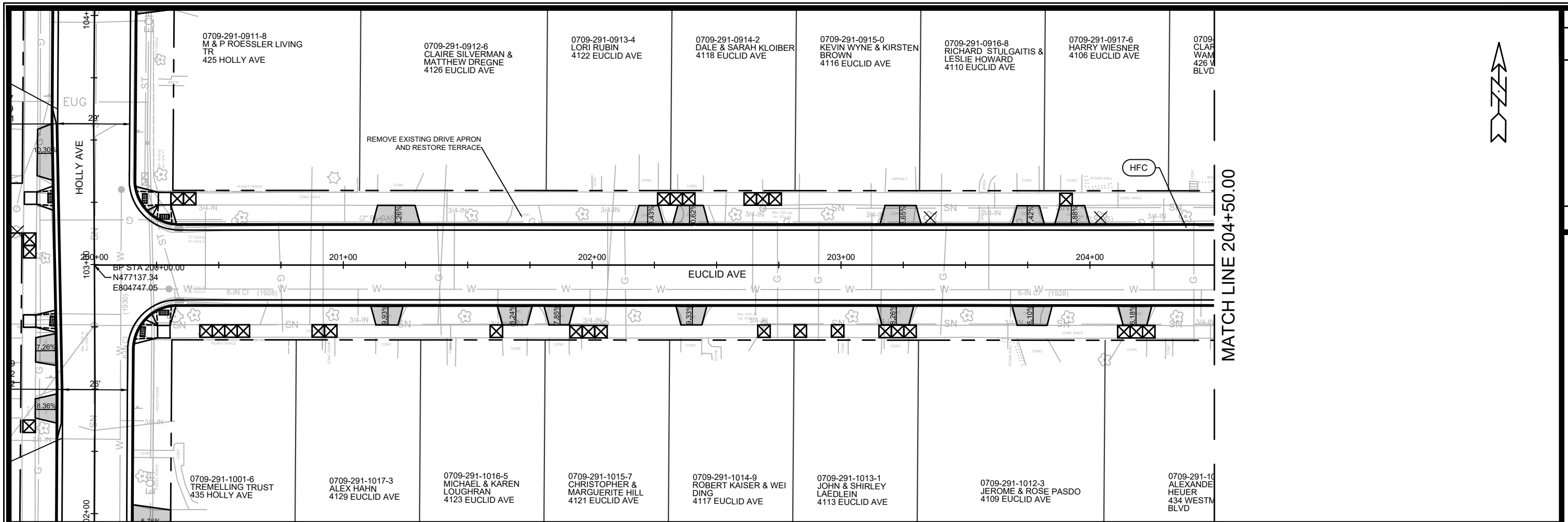
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11744  
P-7

MATCH LINE 204+50.00



11744	MADISON, WI	8306
CONTRACT NO. 11744		
PLAN AND PROFILE - STREETS		
EUCLID AVE		
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11744	P-8	



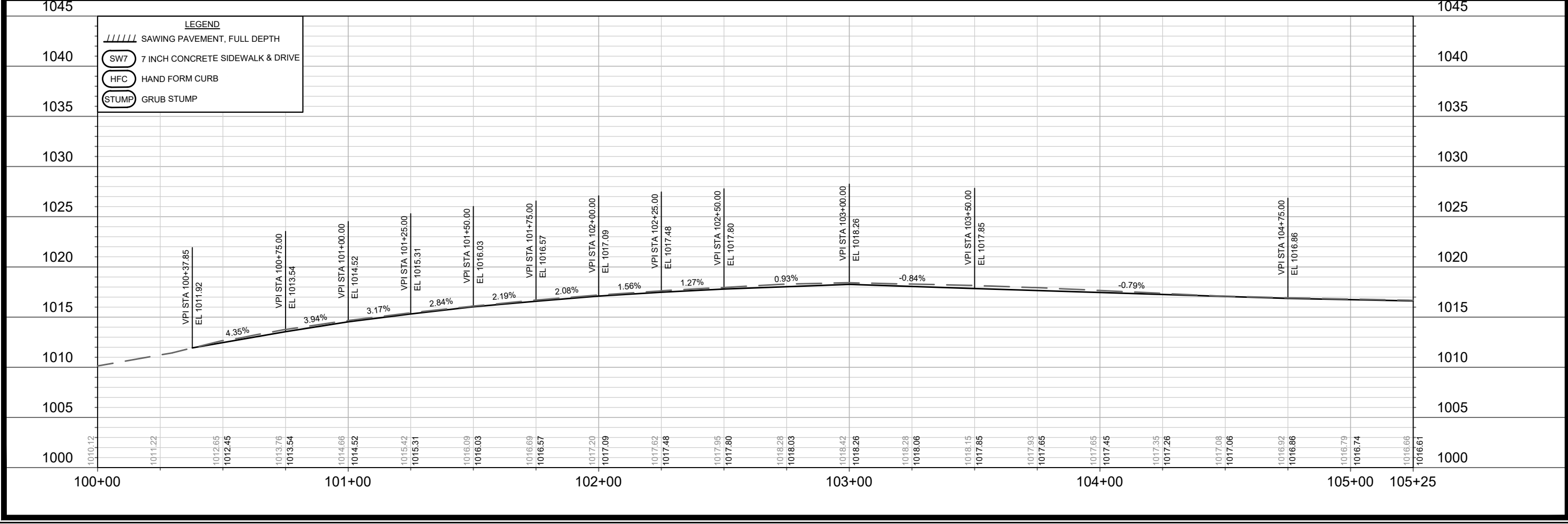
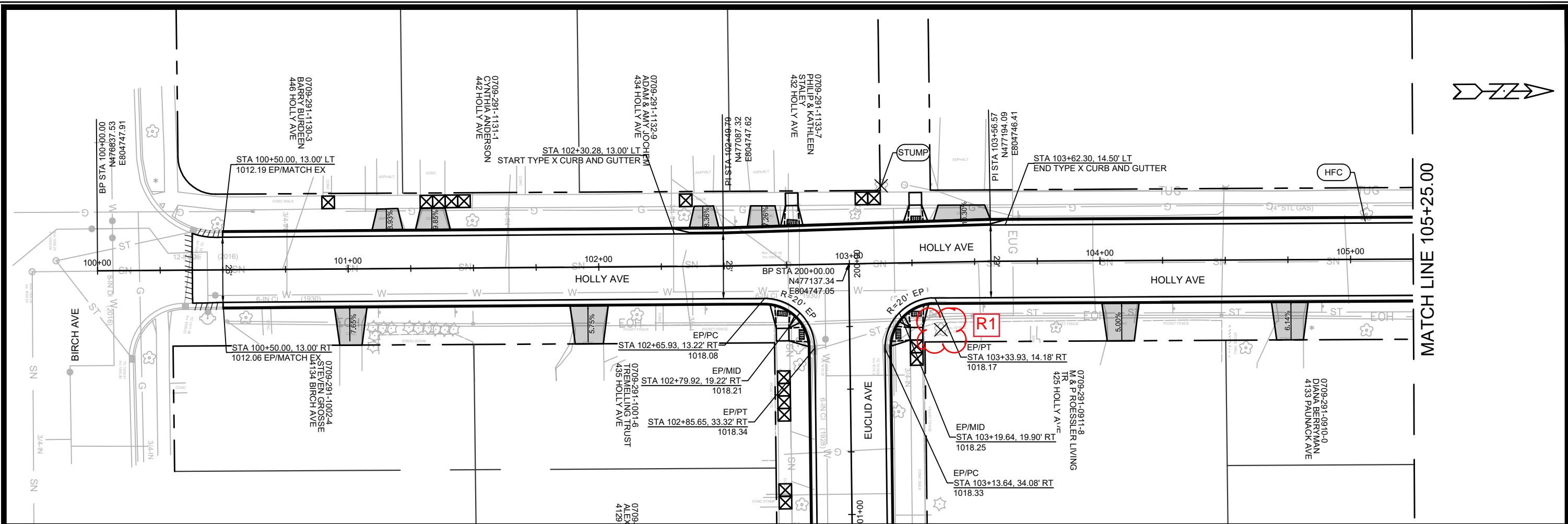
MARK	REVISION	DATE	BY

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - STREETS  
EUCLID AVE  
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DATE	BY
REVISION	
MARK	11744
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Date: 4/20/2020 4:08 PM	
Scale: 1" = 40'	P-10

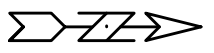
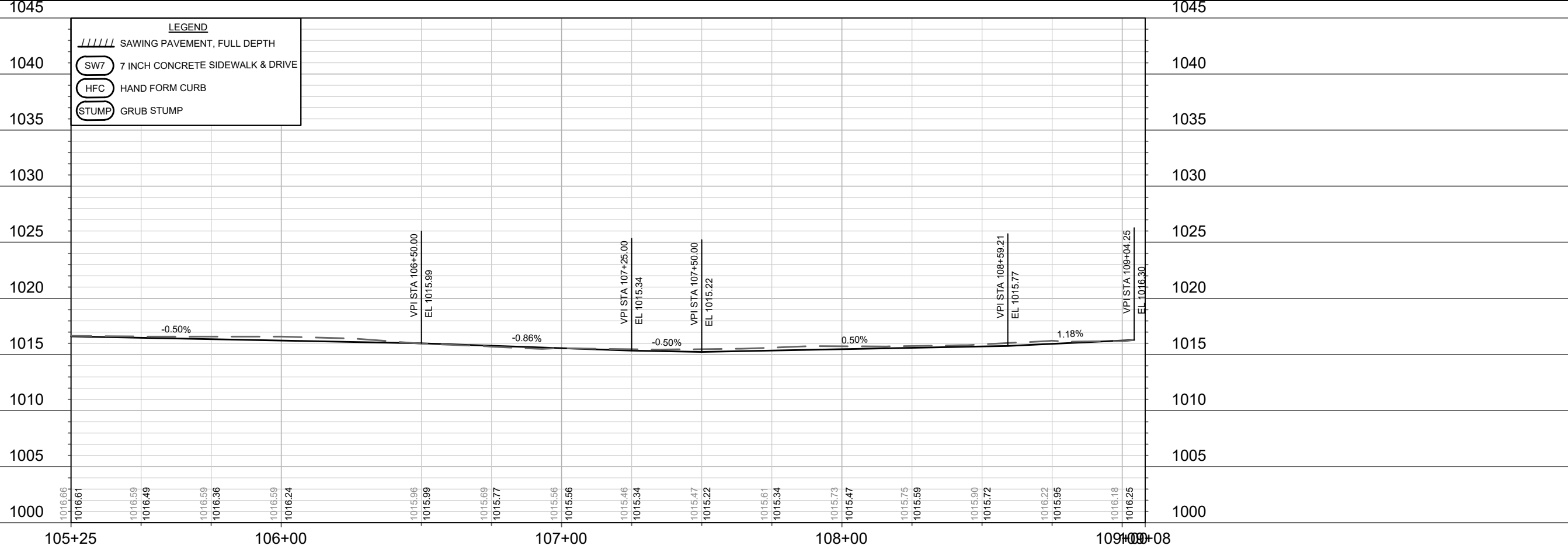
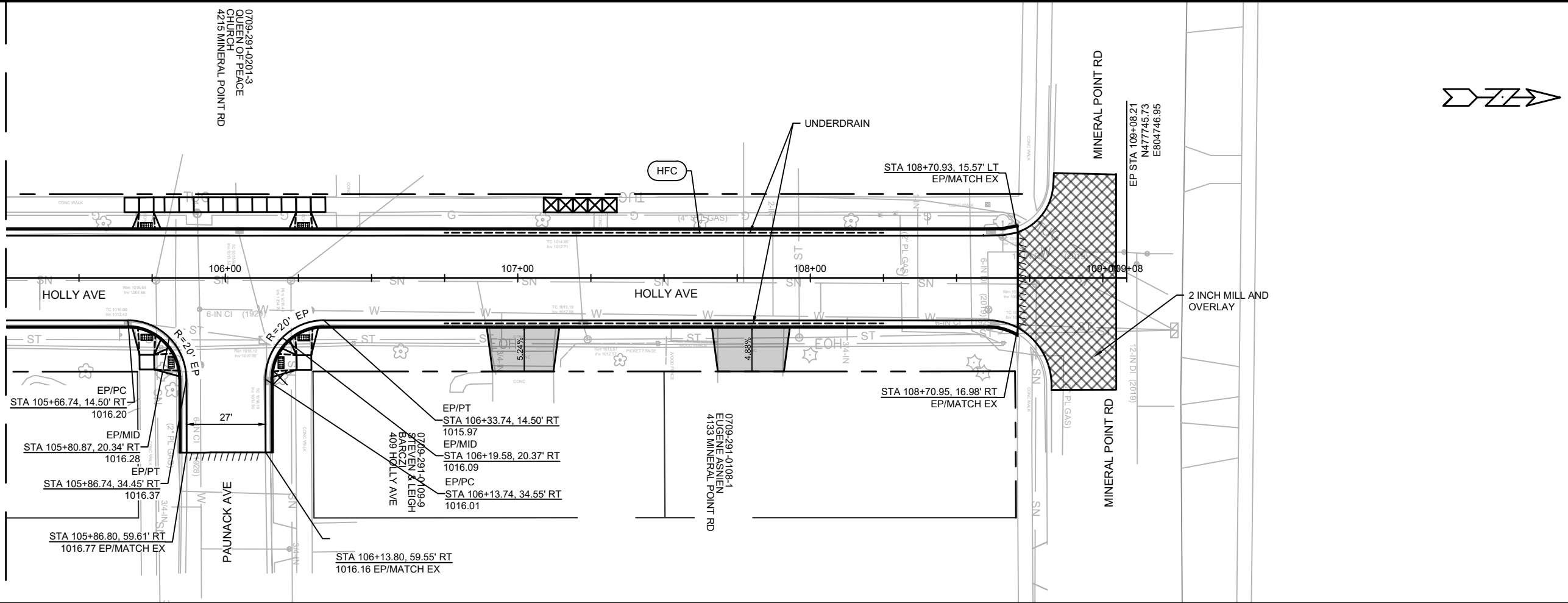
11744  
MADISON, WI  
8306  
CONTRACT NO:

PLAN AND PROFILE - STREETS  
HOLLY AVE

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11744  
P-10

MATCH LINE 105+25.00



DATE	BY
REVISION	
MARK	
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Date: 3/16/2020 7:08 PM	
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P-11	

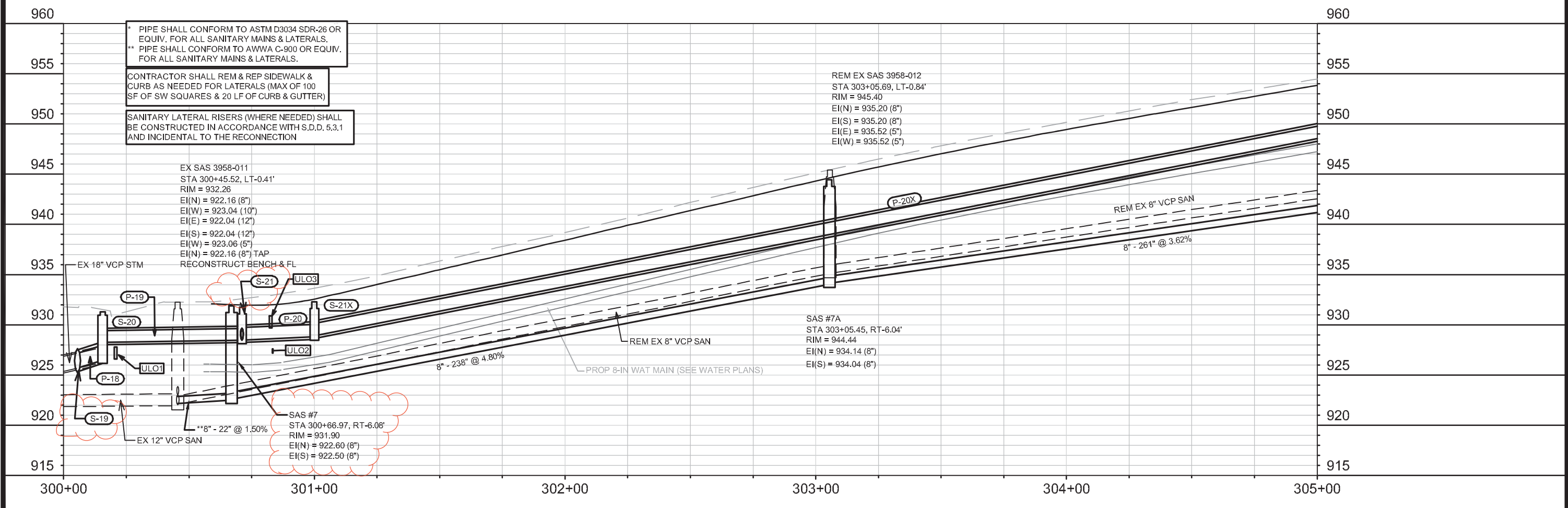
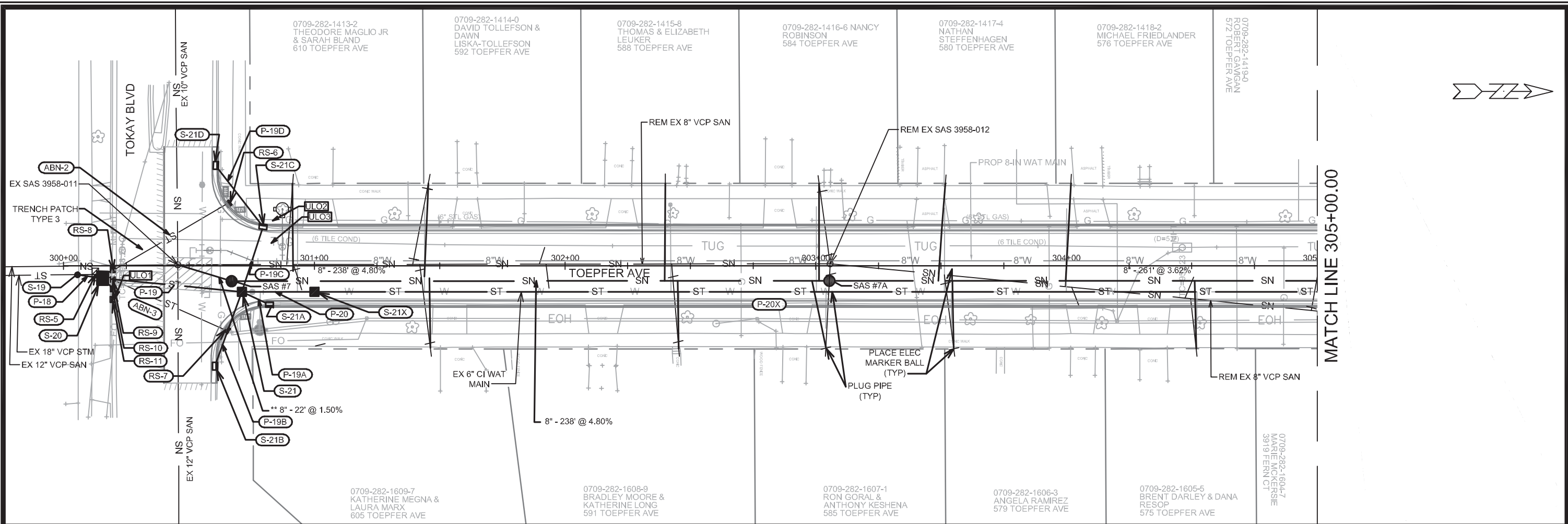
11744  
MADISON, WI  
8306  
CONTRACT NO:

PLAN AND PROFILE - STREETS  
HOLLY AVE



11744  
P-11

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\* PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
 \*\* PIPE SHALL CONFORM TO AWWA C-900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.

CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)

SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

EX SAS 3958-011  
 STA 300+45.52, LT-0.41'  
 RIM = 932.26  
 EI(N) = 922.16 (8")  
 EI(W) = 923.04 (10")  
 EI(E) = 922.04 (12")  
 EI(S) = 922.04 (12")  
 EI(W) = 923.06 (5")  
 EI(N) = 922.16 (8") TAP  
 RECONSTRUCT BENCH & FL

SAS #7  
 STA 300+66.97, RT-6.08'  
 RIM = 931.90  
 EI(N) = 922.60 (8")  
 EI(S) = 922.50 (8")

REM EX SAS 3958-012  
 STA 303+05.69, LT-0.84'  
 RIM = 945.40  
 EI(N) = 935.20 (8")  
 EI(S) = 935.20 (8")  
 EI(E) = 935.52 (5")  
 EI(W) = 935.52 (5")

SAS #7A  
 STA 303+05.45, RT-6.04'  
 RIM = 944.44  
 EI(N) = 934.14 (8")  
 EI(S) = 934.04 (8")

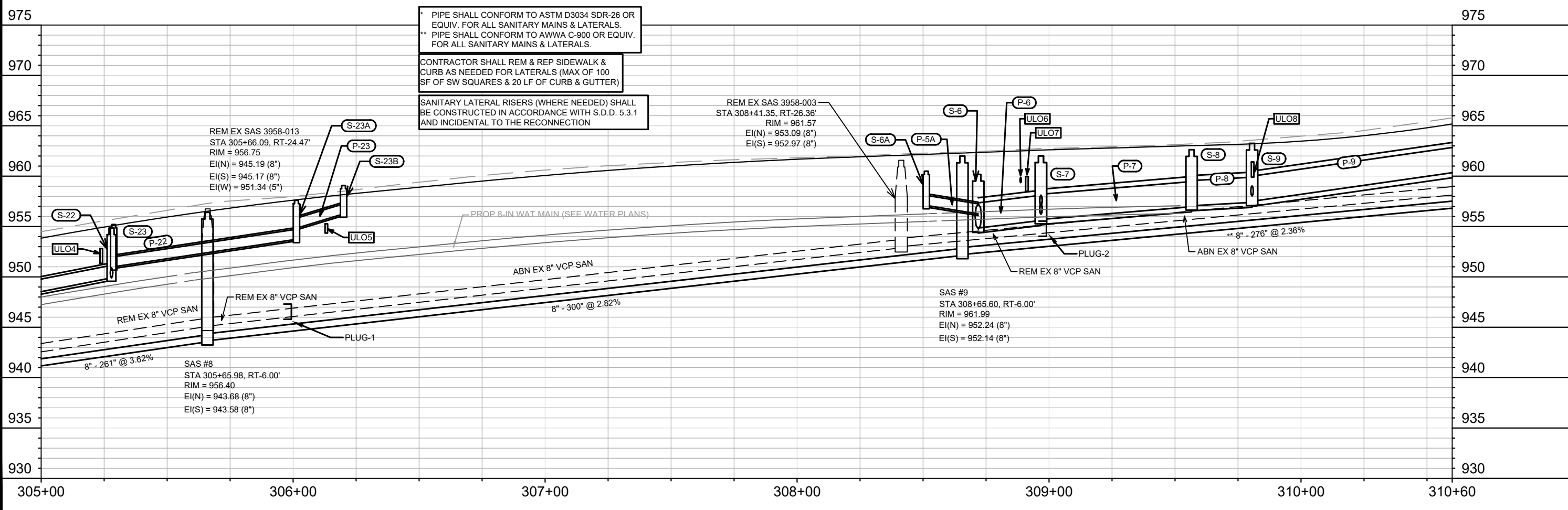
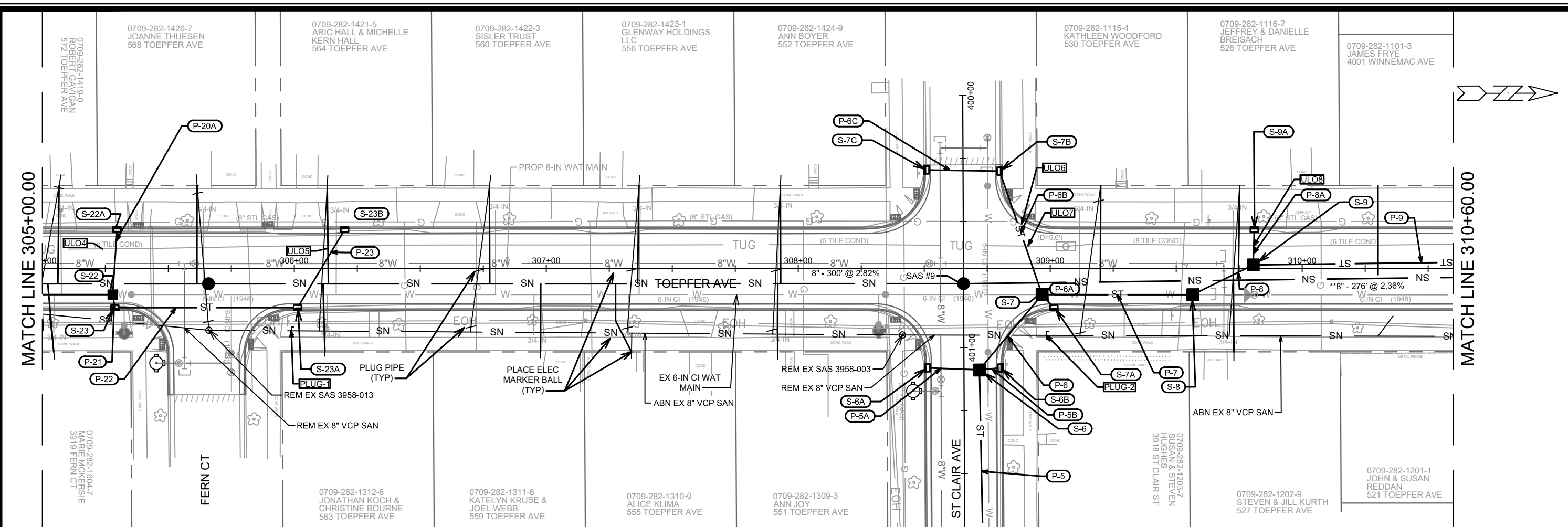
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REVISION 2	DAO	6/1/2020	
ADDENDUM 1	DAO	3/16/20	
REVISION	BY	DATE	Scale: 1" = 40'
Designed By: DAO	Date: 7/13/2020 7:36 PM		11744

11744  
 MADISON, WI  
 CONTRACT NO.: 8306

PLAN AND PROFILE - UTILITIES  
 TOEPFER AVE  
 M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_Sewer Layout (Toepfer Holly).dwg



11744  
 U-1



\* PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
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SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

REM EX SAS 3958-013  
 STA 305+66.09, RT-24.47'  
 RIM = 956.75  
 EI(N) = 945.19 (8")  
 EI(S) = 945.17 (8")  
 EI(W) = 951.34 (5")

SAS #8  
 STA 305+65.98, RT-6.00'  
 RIM = 956.40  
 EI(N) = 943.68 (8")  
 EI(S) = 943.58 (8")

REM EX 8" VCP SAN  
 8" - 261' @ 3.62%

PROP 8-IN WAT MAIN (SEE WATER PLANS)

ABN EX 8" VCP SAN  
 8" - 300' @ 2.82%

REM EX SAS 3958-003  
 STA 308+41.35, RT-26.36'  
 RIM = 961.57  
 EI(N) = 953.09 (8")  
 EI(S) = 952.97 (8")

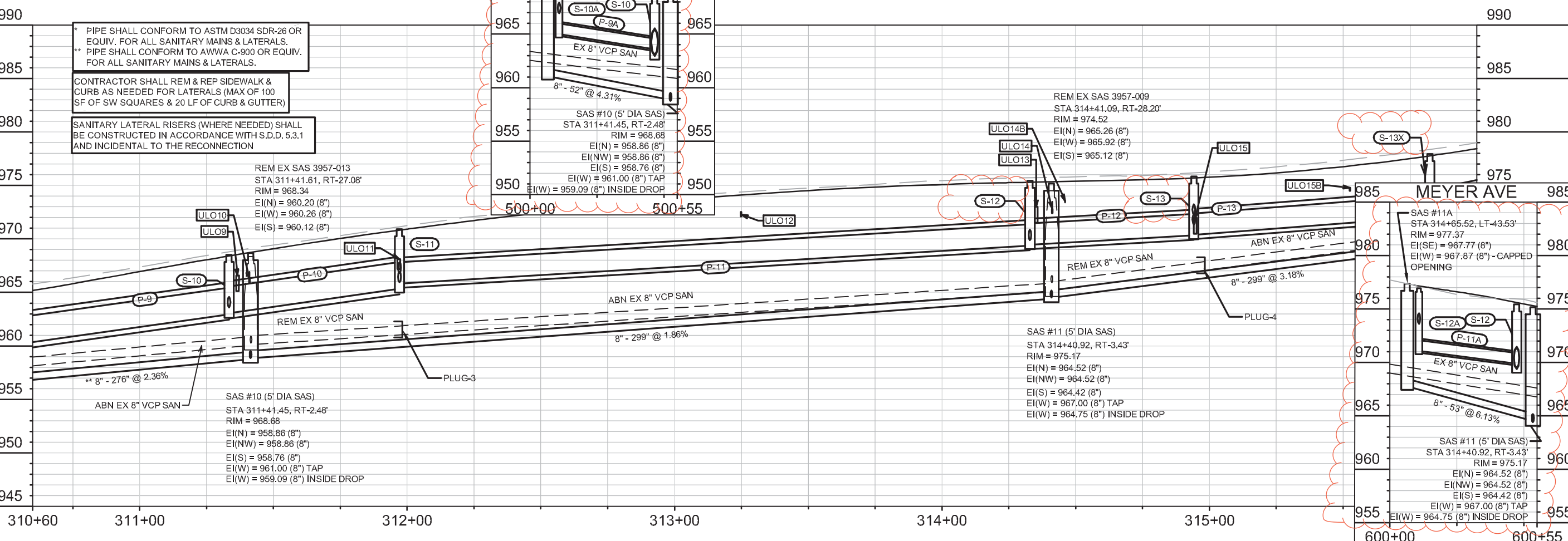
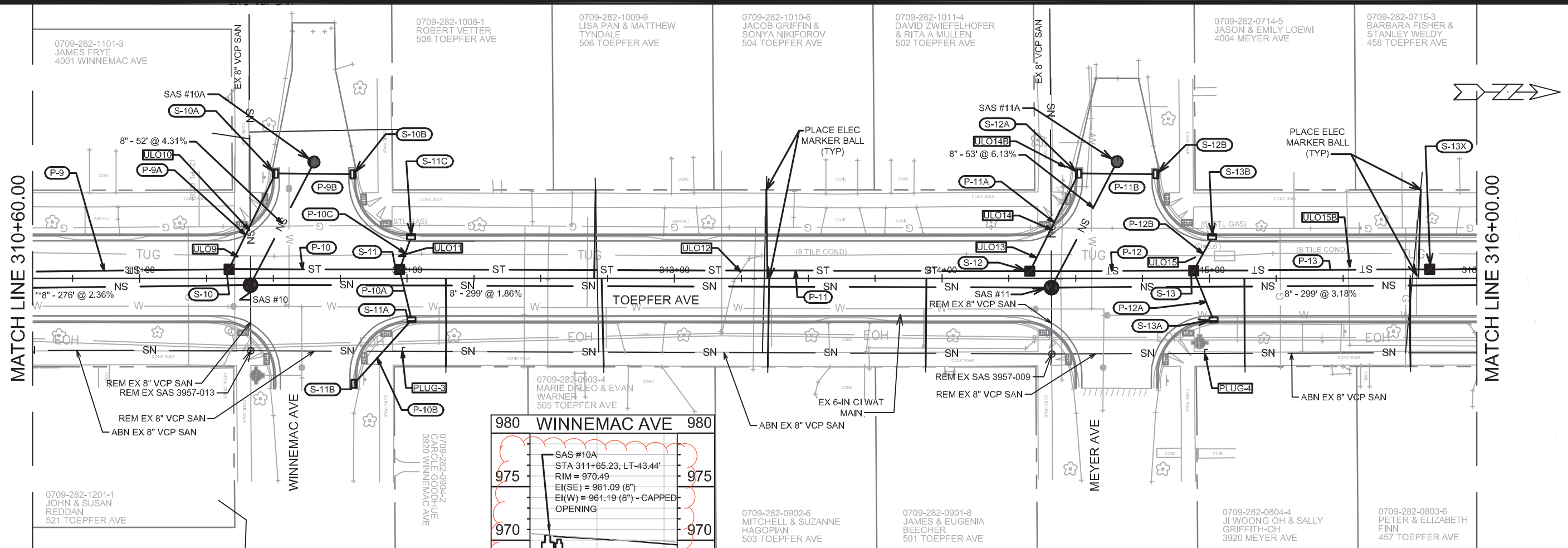
SAS #9  
 STA 308+65.60, RT-6.00'  
 RIM = 961.99  
 EI(N) = 952.24 (8")  
 EI(S) = 952.14 (8")

ABN EX 8" VCP SAN  
 8" - 276' @ 2.36%

11744	11744	U-2
MADISON, WI	REVISION 2	6/12/2020
TOEPPER AVE	ADDENDUM 1	3/16/20
	REVISION	DATE
	MARK	BY
	DESIGNED BY: DAO	DATE: 6/12/2020 10:39 PM
	SCALE: 1" = 40'	
	11744	
	CONTRACT NO: 8306	
	PLAN AND PROFILE - UTILITIES	
	TOEPPER AVE	
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	11744	
	U-2	







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 PIPE SHALL CONFORM TO AWWA C-900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.

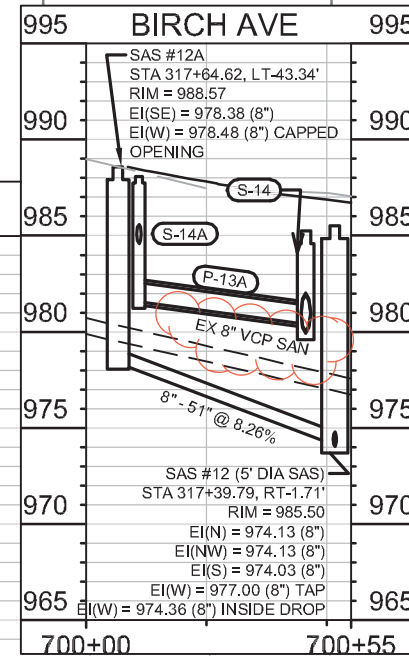
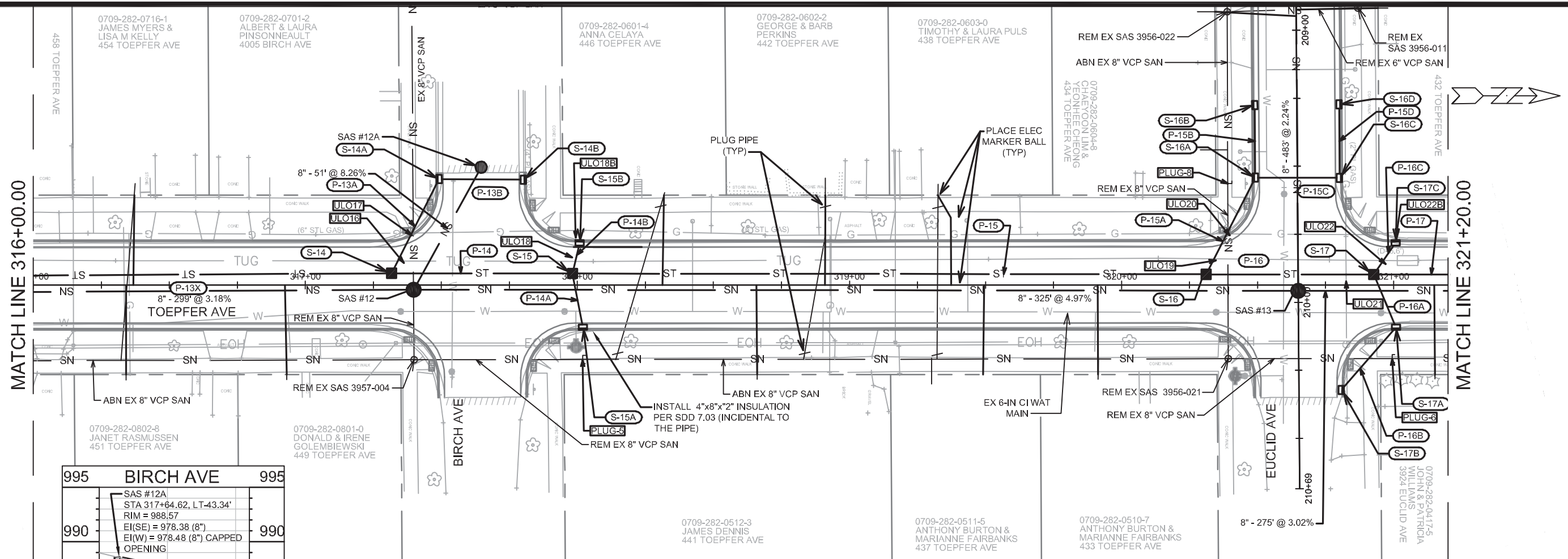
CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER).

SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

Station	Manhole	Notes
311+65.23	SAS #10A	LT-43.44'
311+41.45	SAS #10	RT-2.48'
314+41.09	SAS #11	RT-28.20'
314+65.52	SAS #11A	LT-43.53'

11744	MADISON, WI	8306
CONTRACT NO. 11744		
PLAN AND PROFILE - UTILITIES		
TOEPPER AVE		
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11744		
U-3		

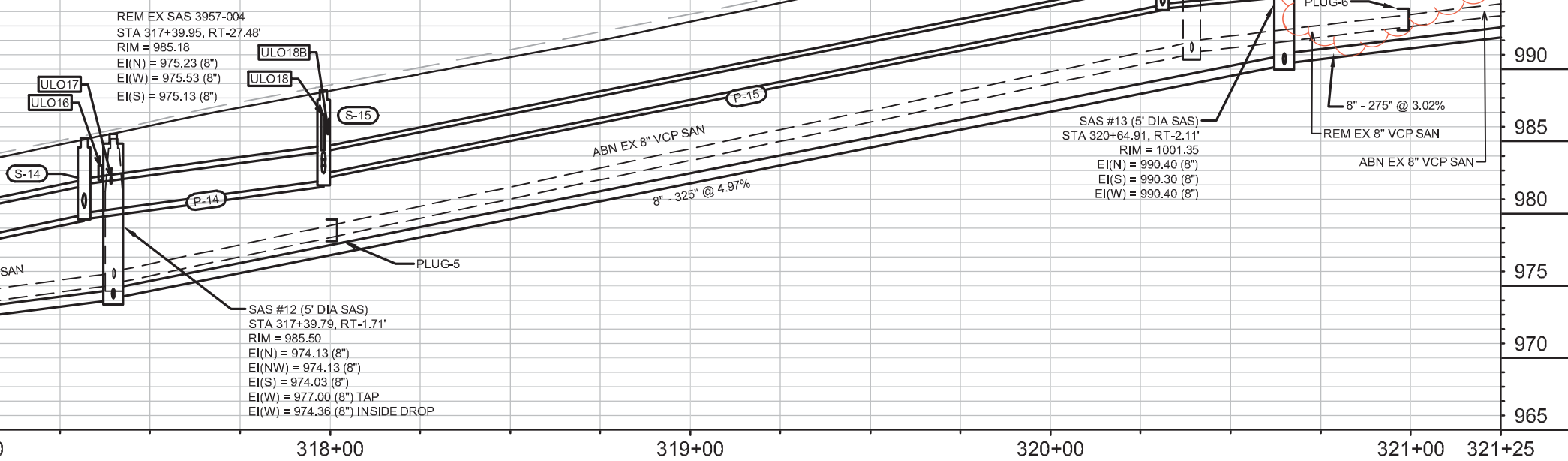




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SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION



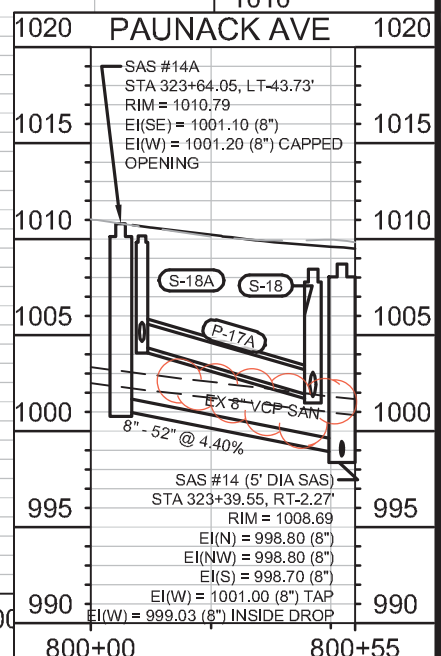
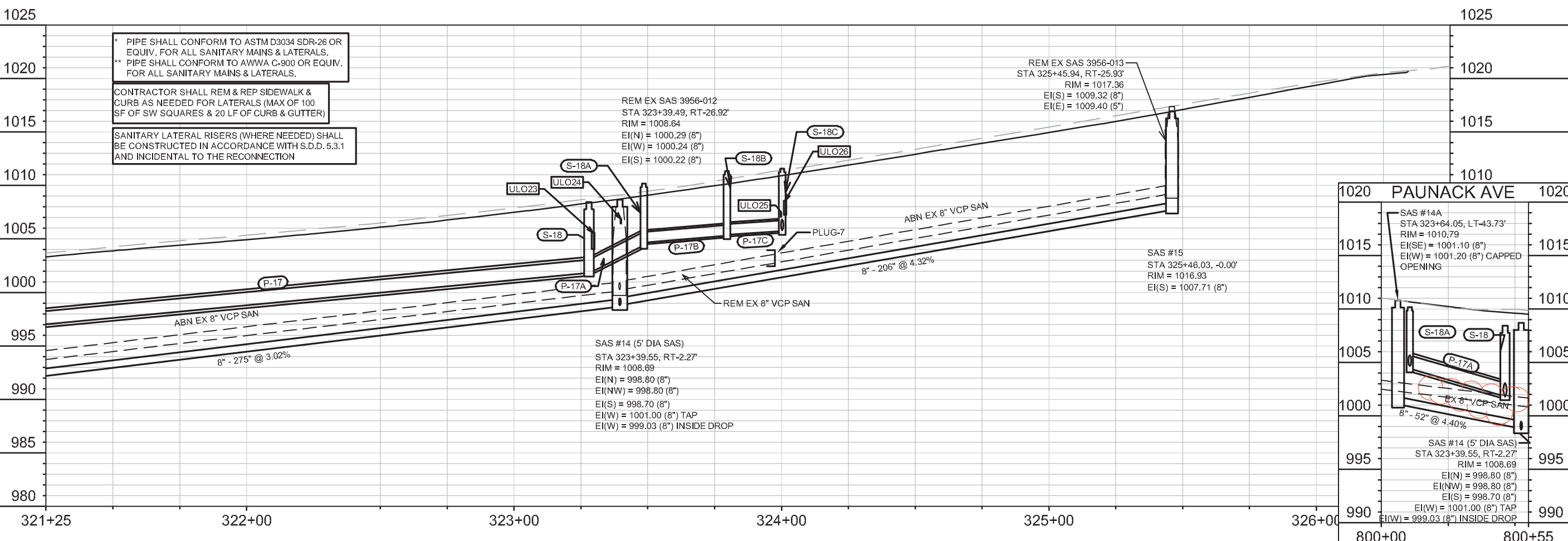
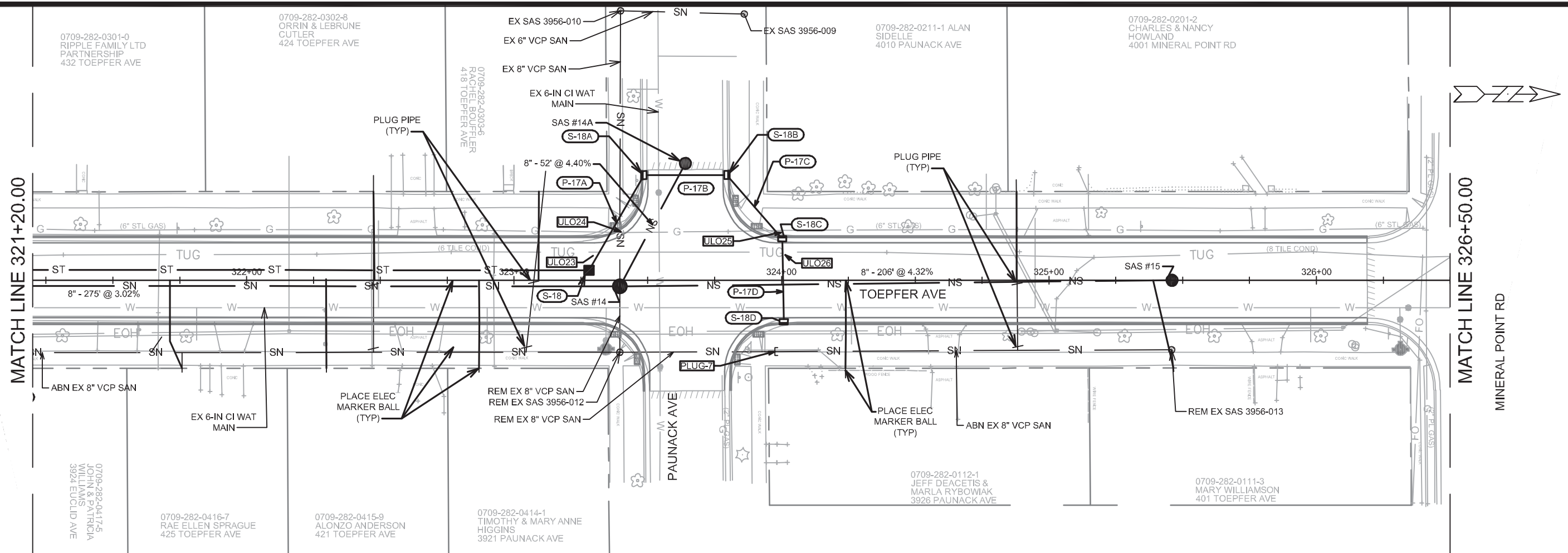
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ADDENDUM 1	3/16/20	DAO	11744
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DESIGNED BY: DAO	DATE: 7/13/2020	TIME: 7:40 PM	SCALE: 1" = 40'
DRAWN BY: U-4			

11744  
 MADISON, WI  
 CONTRACT NO: 8306

PLAN AND PROFILE - UTILITIES  
 TOEPPER AVE  
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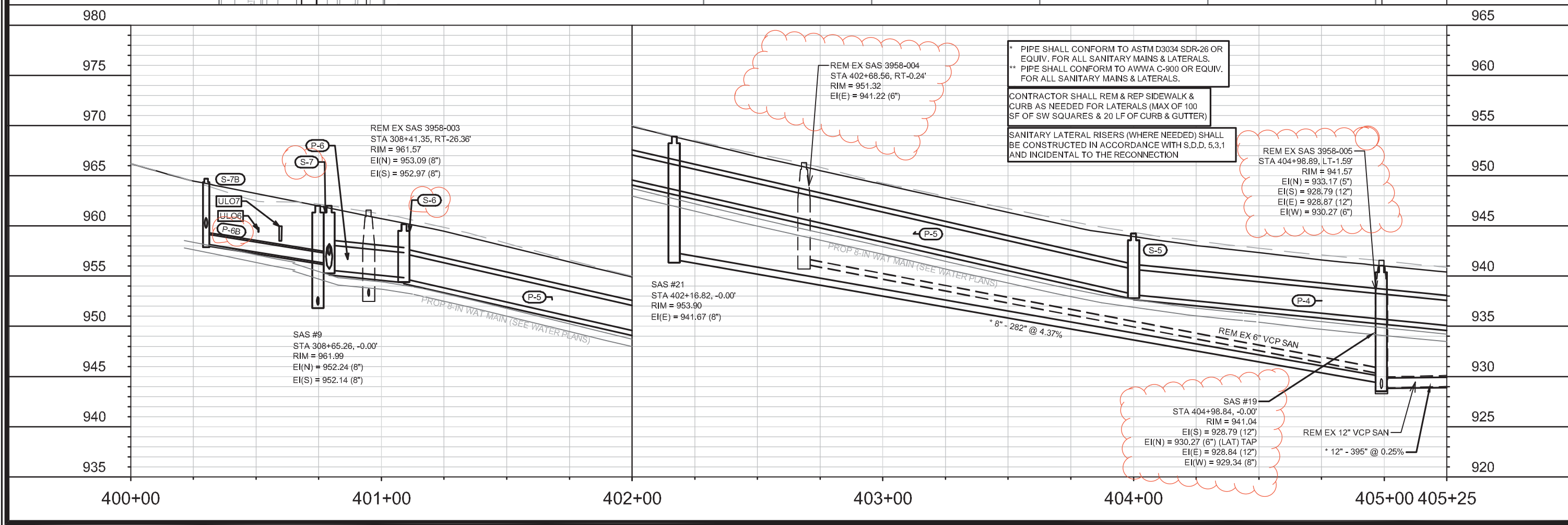
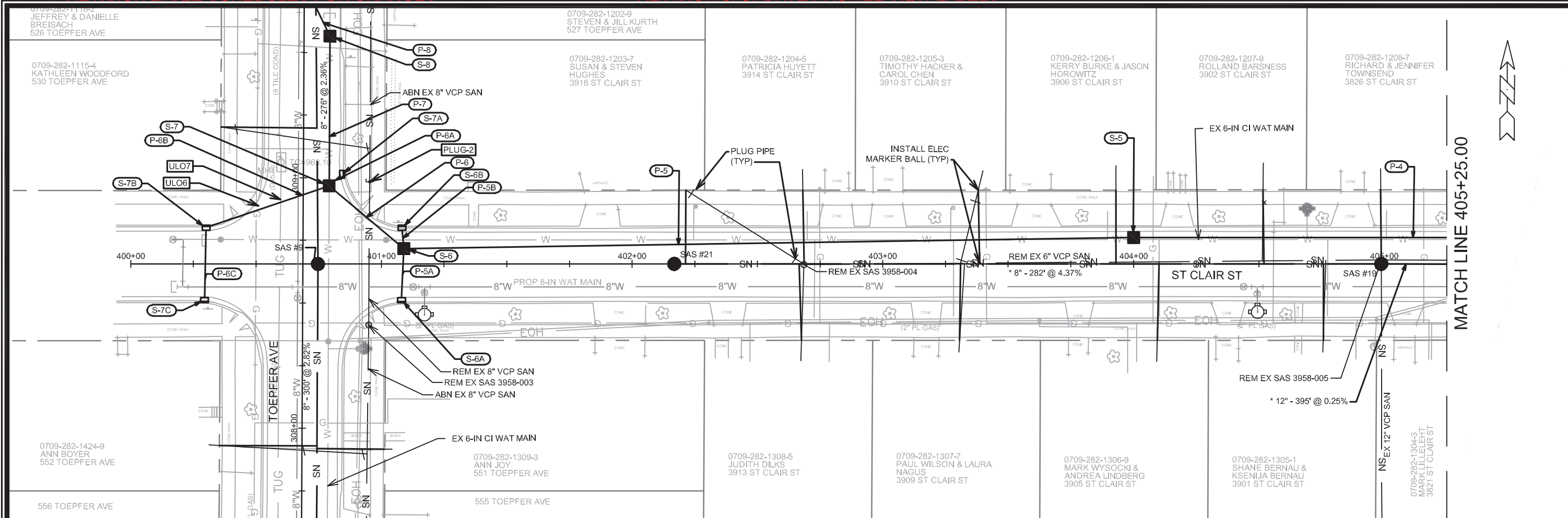


11744  
 U-4



REVISION 3	7/14/20	DAO	U-5
REVISION 2	6/17/20	DAO	
ADDENDUM 1	3/16/20	DAO	
REVISION 1		BY	
Designed By: DAO	Date: 7/13/2020 7:43 PM	Scale: 1" = 40'	
11744	MADISON, WI	8306	
PLAN AND PROFILE - UTILITIES		TOEPPER AVE	
CITY OF MADISON WISCONSIN		11744	
		U-5	

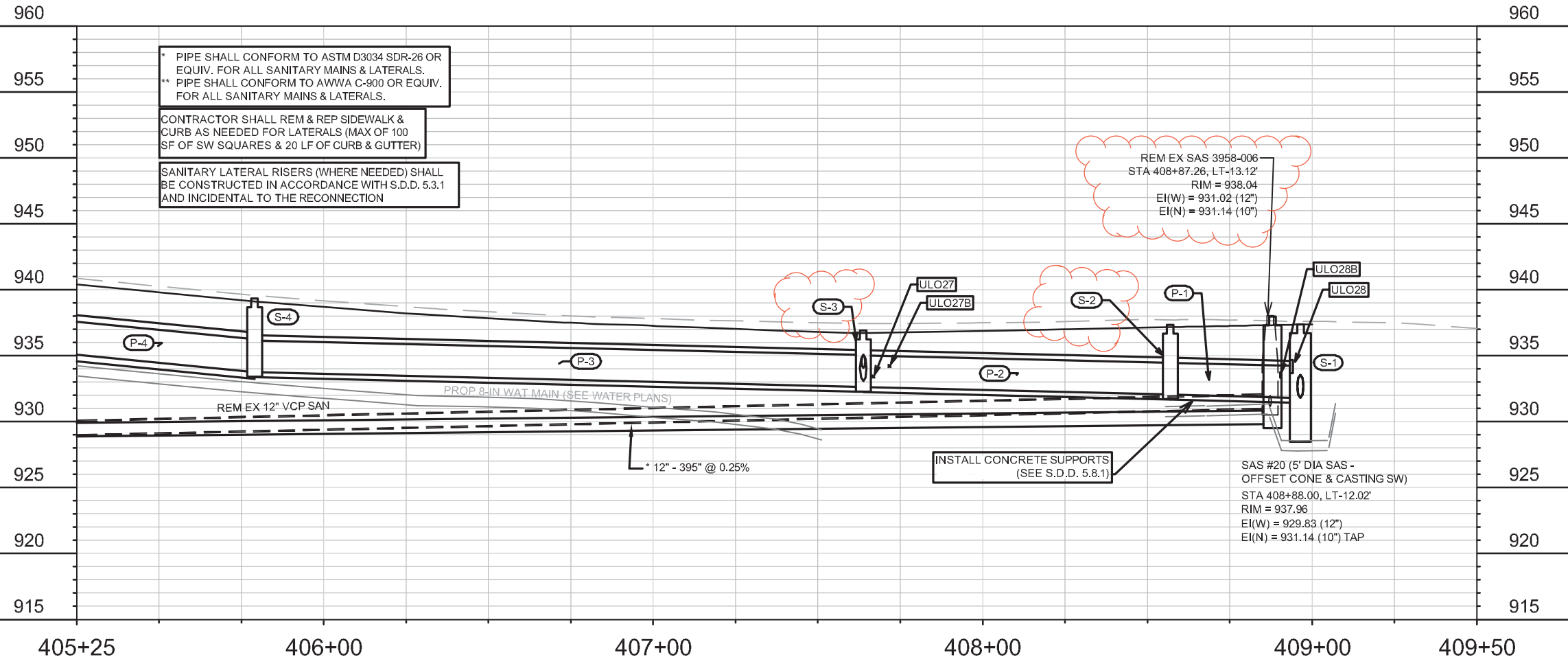
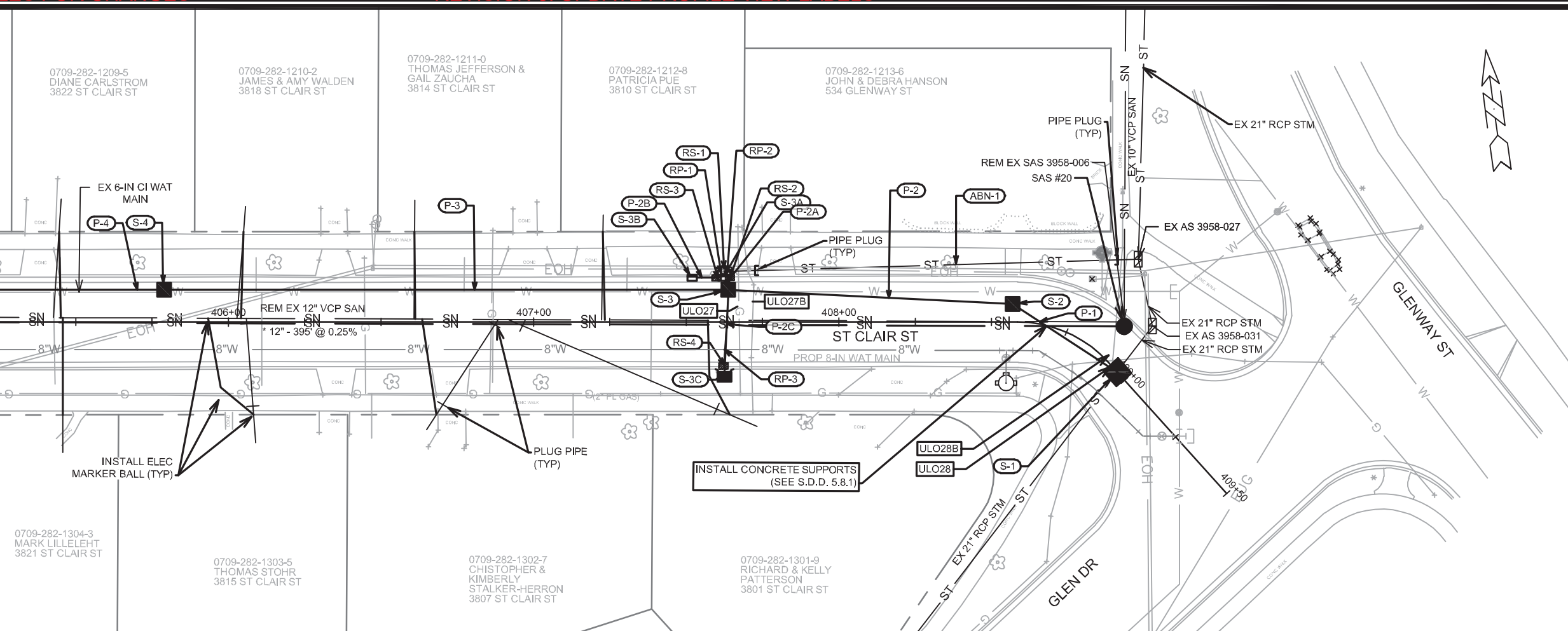
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REVISION 3	7/14/20	DAO	U-6
REVISION 2	6/12/20	DAO	
ADDENDUM 1	3/16/20	DAO	
MARK	DATE	BY	
REVISION	DATE	BY	
DESIGNED BY: DAO	DATE: 7/13/2020 8:11 PM	SCALE: 1" = 40'	
11744	MADISON, WI	CONTRACT NO: 8306	
PLAN AND PROFILE - UTILITIES			
ST CLAIR ST			
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744_Sewer_Layout (StClair Euclid).dwg			
CITY OF MADISON WISCONSIN			
11744			
U-6			



MATCH LINE 405+25.00



REVISION 3	7/14/20	DAO	U-7
REVISION 2	6/12/20	DAO	
ADDENDUM 1	3/16/20	DAO	
MARK		DATE	BY
REVISION		DATE	BY
DESIGNED BY: DAO	Date: 7/13/2020	8:12 PM	
Scale: 1" = 40'			
11744			

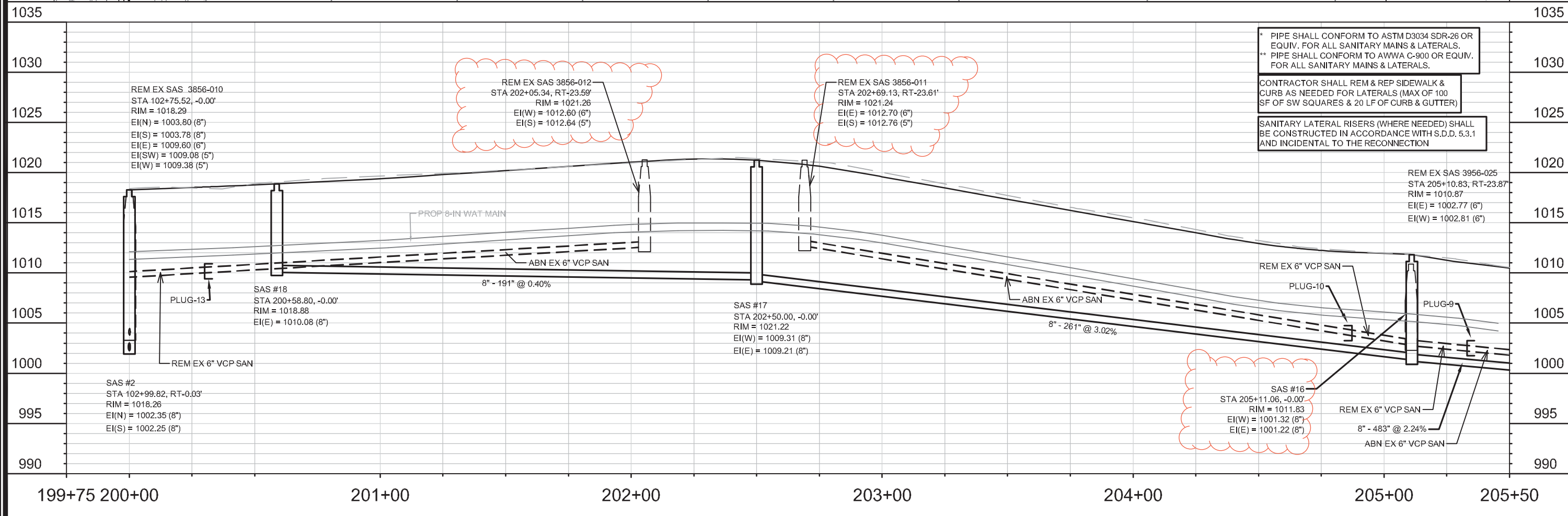
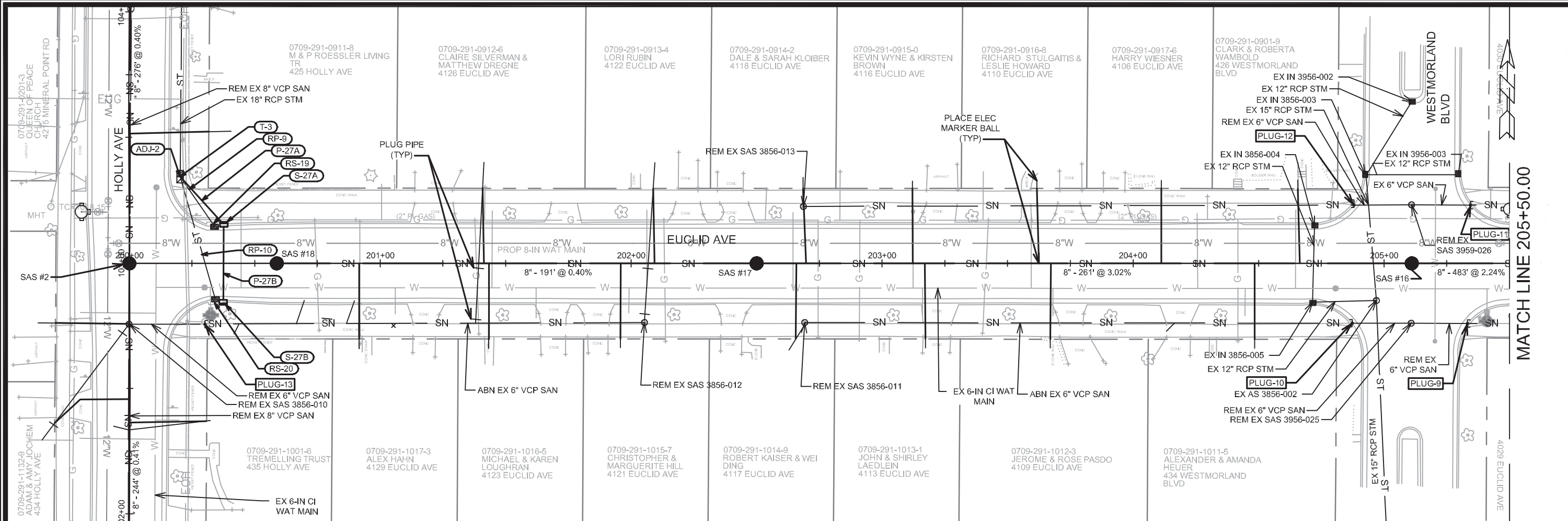
11744  
 MADISON, WI  
 CONTRACT NO: 8306

PLAN AND PROFILE - UTILITIES  
 ST CLAIR ST  
 M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_Sewer\_Layout (StClair Euclid).dwg



11744  
 U-7

REVISION 3: UPDATE PROFILE VIEW LABELS



\* PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
 \*\* PIPE SHALL CONFORM TO AWWA C-900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.

CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)

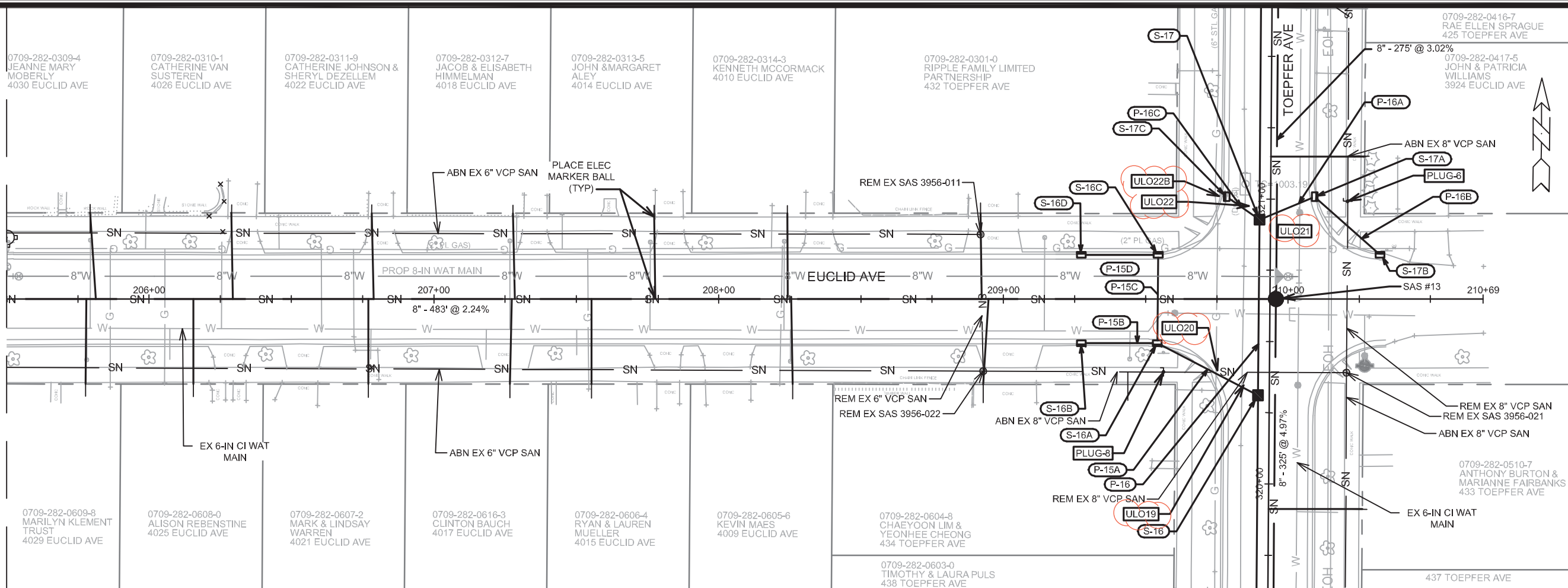
SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

11744	MADISON, WI	8306
11744	CONTRACT NO.:	
U-8	PLAN AND PROFILE - UTILITIES	
U-8	EUCUID AVE	
U-8	11744	

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MATCH LINE 205+50.00



REVISION 3	7/14/20	DAO	U-9
REVISION 2	6/11/2020	DAO	
REVISION 1	4/21/20	DAO	
ADDENDUM 1	3/16/20	DAO	
MARK			
REVISION			
DATE			
DESIGNED BY: DAO	Date: 7/13/2020 8:21 PM		
Scale: 1" = 40'			
11744			

11744  
MADISON, WI  
CONTRACT NO: 8306

PLAN AND PROFILE - UTILITIES  
EUCLID AVE  
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_Sewer\_Layout (StClair Euclid).dwg  
U-9



11744  
U-9

1025

1025

1020

1020

1015

1015

1010

1010

1005

1005

1000

1000

995

995

990

990

985

985

980

980

205+50

206+00

207+00

208+00

209+00

210+00

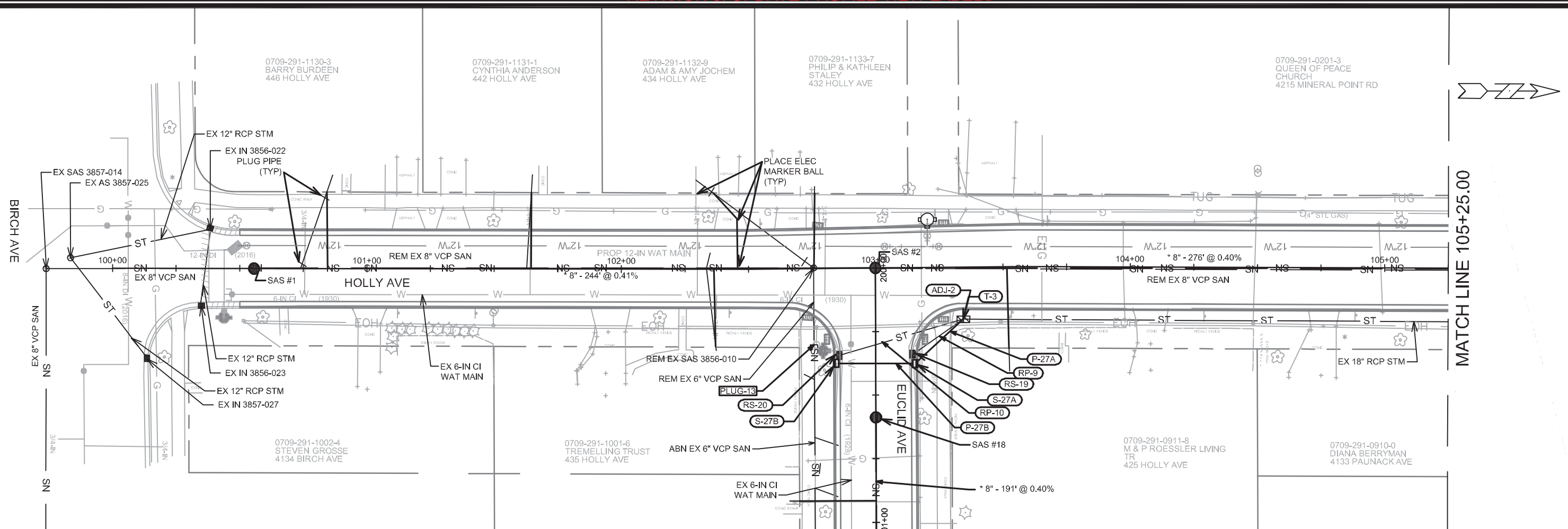
210+50

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SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

REM EX SAS 3956-022  
STA 208+92.97, RT-25.35'  
RIM = 1002.66  
EI(E) = 993.58 (8")  
EI(W) = 993.60 (6")  
EI(S) = 993.78 (5")  
EI(N) = 993.62 (6")  
EI(S) = 993.78 (5")

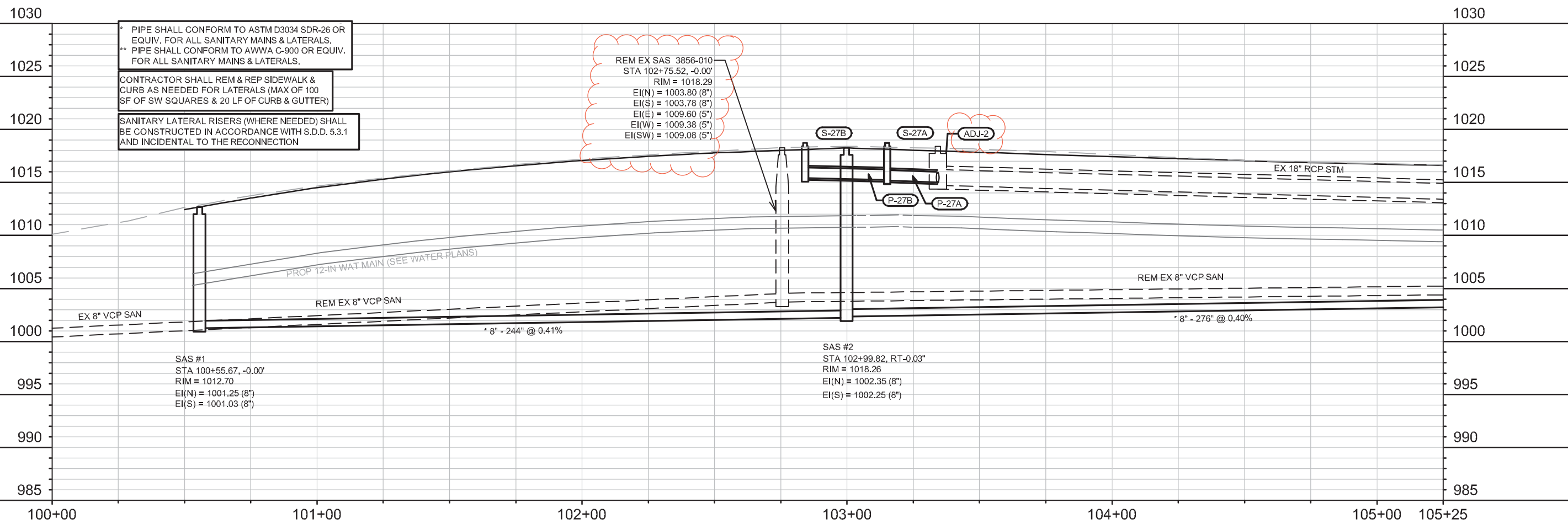
REM EX SAS 3956-021  
STA 320+39.24, RT-27.10'  
RIM = 1000.43  
EI(N) = 991.24 (8")  
EI(S) = 991.16 (8")  
EI(W) = 991.22 (8")

SAS #13 (5' DIA SAS)  
STA 320+64.94, -0.00'  
RIM = 1001.35  
EI(N) = 990.40 (8")  
EI(S) = 990.30 (8")  
EI(W) = 990.40 (8")



REVISION 3	7/14/20	DAO	U-10
ADDENDUM 1	3/16/20	DAO	
REVISION		DATE	BY
MARK		DATE	BY
DESIGNED BY: DAO	Date: 7/13/2020 7:48 PM		
11744			

11744  
MADISON, WI  
CONTRACT NO: 8306



\* PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
\*\* PIPE SHALL CONFORM TO AWWA C-900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
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SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

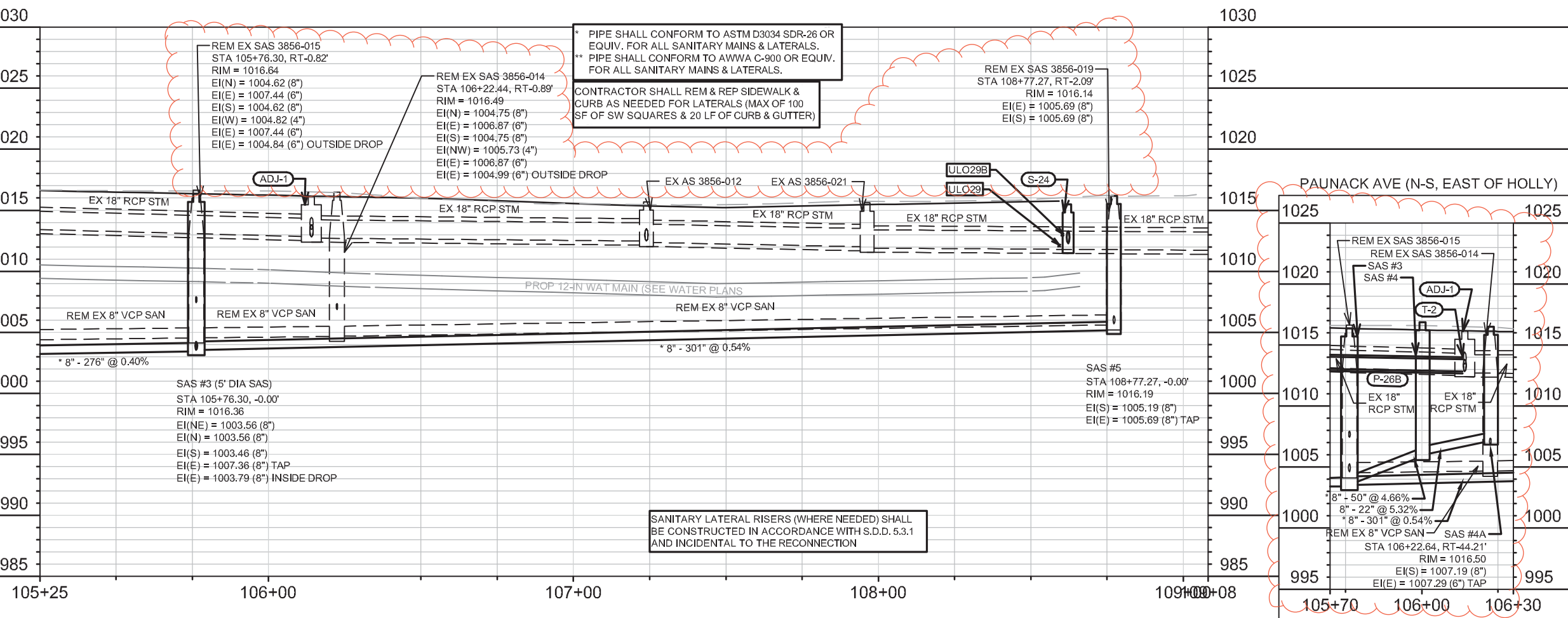
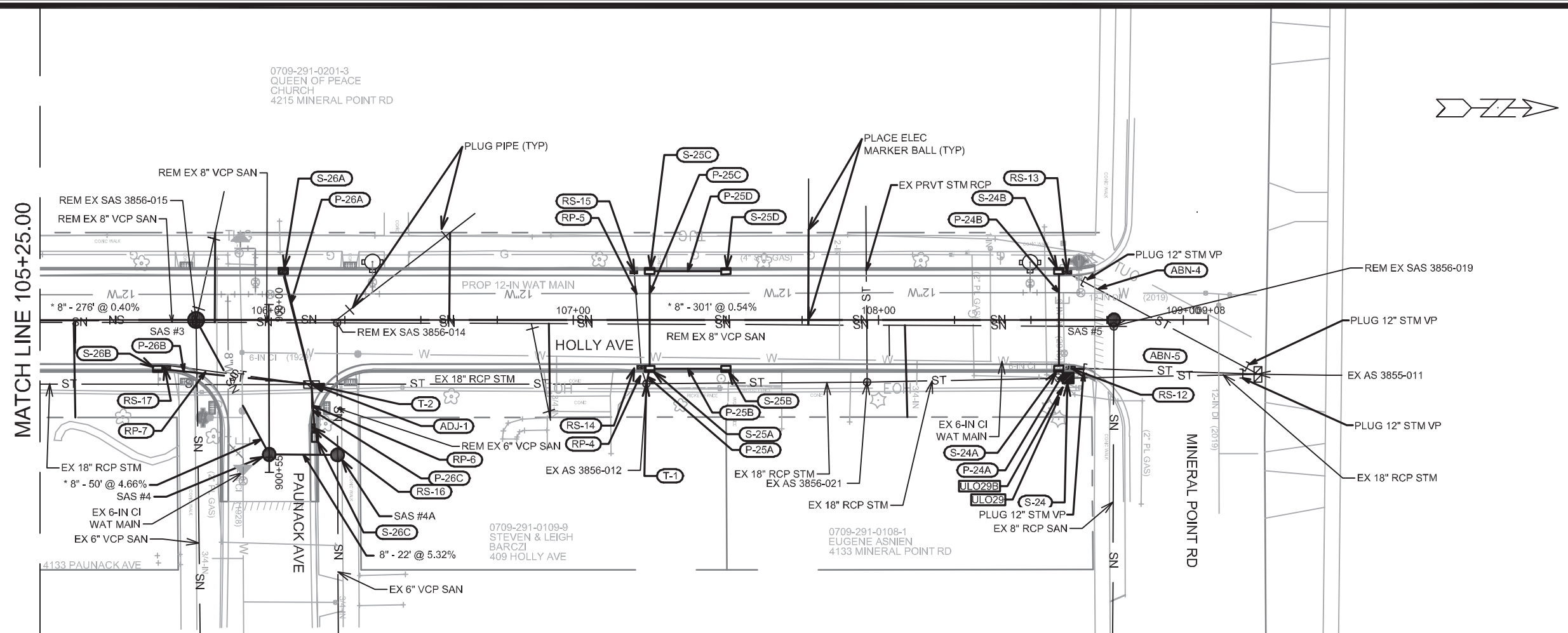
REM EX SAS 3856-010  
STA 102+75.52, -0.00'  
RIM = 1018.29  
EI(N) = 1003.80 (8")  
EI(S) = 1003.78 (8")  
EI(E) = 1009.60 (5")  
EI(W) = 1009.38 (5")  
EI(SW) = 1009.08 (5")

SAS #2  
STA 102+99.82, RT-0.03"  
RIM = 1018.26  
EI(N) = 1002.35 (8")  
EI(S) = 1002.25 (8")

SAS #1  
STA 100+55.67, -0.00'  
RIM = 1012.70  
EI(N) = 1001.25 (8")  
EI(S) = 1001.03 (8")

PLAN AND PROFILE - UTILITIES  
HOLLY AVE  
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_Sewer\_Layout (Toepfer Holly).dwg  
11744  
U-10





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 \*\* PIPE SHALL CONFORM TO AWWA C-900 OR EQUIV. FOR ALL SANITARY MAINS & LATERALS.  
 CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX OF 100 SF OF SW SQUARES & 20 LF OF CURB & GUTTER)

SANITARY LATERAL RISERS (WHERE NEEDED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH S.D.D. 5.3.1 AND INCIDENTAL TO THE RECONNECTION

REVISION 3	7/14/20	DAO	U-11
REVISION 2	6/11/2020	DAO	
ADDENDUM 1	3/16/20	DAO	
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DATE	7/13/2020	7:51 PM	
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11744			
11744	MADISON, WI	CONTRACT NO.:	8306
PLAN AND PROFILE - UTILITIES			
HOLLY AVE			
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744_Sewer_Layout (Toepfer-Holly).dwg			
11744			
U-11			

# SANITARY SEWER SCHEDULE

\* REV 3/16/20 DAO

TOEPFER, HOLLY, EUCLID & ST CLAIR RESURFACING W/UTILITIES	SHEET NO.
PROJECT NO. 11744	U-12
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

U-12

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
<b>HOLLY AVE</b>						
SAS #1	100+55.67	CL	1012.66	1001.25	11.41	
SAS #2	102+99.82	RT-0.03	1018.26	1002.25	16.01	
* SAS #3	105+76.30	CL	<b>1016.55</b>	1003.46	<b>13.09</b>	5' DIA SAS (1)
SAS #4	106+00.27	RT-44.15	1016.85	1005.90	10.95	
SAS #4A	106+22.64	RT-44.21	1016.50	1007.19	9.31	
SAS #5	108+77.27	CL	1016.19	1005.19	11.00	
<b>TOEPFER AVE</b>						
* SAS #7	<b>300+66.97</b>	<b>RT-6.08</b>	<b>931.85</b>	<b>922.50</b>	<b>9.35</b>	(3)
* SAS #7A	<b>303+05.45</b>	<b>RT-6.04</b>	<b>944.44</b>	<b>934.04</b>	<b>10.40</b>	
SAS #8	305+65.98	RT-6.00	956.40	943.58	<b>12.82</b>	(3)
SAS #9	308+65.60	RT-6.00	961.99	952.14	<b>9.85</b>	(3)
* SAS #10	<b>311+41.45</b>	<b>RT-2.48</b>	<b>968.68</b>	958.76	<b>9.92</b>	5' DIA SAS (1)(3)
SAS #10A	311+65.23	LT-43.44	970.49	<b>961.09</b>	<b>9.40</b>	
* SAS #11	<b>314+40.92</b>	<b>RT-3.43</b>	<b>975.17</b>	<b>964.42</b>	<b>10.75</b>	5' DIA SAS (1)(3)
SAS #11A	314+65.52	LT-43.53	977.37	<b>967.77</b>	<b>9.60</b>	
* SAS #12	<b>317+39.79</b>	<b>RT-1.71</b>	<b>985.50</b>	<b>974.03</b>	<b>11.47</b>	5' DIA SAS (1)(3)
SAS #12A	317+64.62	LT-43.34	988.57	<b>978.38</b>	<b>10.19</b>	
* SAS #13	<b>320+64.91</b>	<b>RT-2.11</b>	<b>1001.35</b>	<b>990.30</b>	<b>11.05</b>	5' DIA SAS (3)
* SAS #14	<b>323+39.55</b>	<b>RT-2.27</b>	<b>1008.69</b>	<b>998.70</b>	<b>9.99</b>	5' DIA SAS (1)(3)
SAS #14A	323+64.05	LT-43.73	1010.79	<b>1001.10</b>	<b>9.69</b>	
SAS #15	325+46.03	CL	1017.41	1007.71	9.70	
<b>EUCLID AVE</b>						
SAS #16	205+11.06	CL	1011.83	1001.22	10.61	
SAS #17	202+50.00	CL	1021.22	1009.21	12.01	
SAS #18	200+58.80	CL	1018.88	1010.08	8.80	
<b>ST CLAIR ST</b>						
SAS #19	404+98.84	CL	941.04	928.79	12.25	
SAS #20	408+88.00	LT-12.02	937.96	929.83	8.13	5' DIA SAS (2)
SAS #21	402+16.82	CL	953.90	941.67	12.23	

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>HOLLY AVE</b>								
SAS #1	SAS #2	1001.25	1002.25	244	0.41%	8"	SDR-26	
SAS #2	SAS #3	1002.35	1003.46	276	0.40%	8"	SDR-26	
SAS #3	SAS #4	1003.56	1005.90	50	4.66%	8"	SDR-26	
SAS #4	SAS #4A	1006.00	1007.19	22	5.32%	8"	SDR-35	
SAS #3	SAS #5	1003.56	1005.19	301	0.54%	8"	SDR-26	
<b>TOEPFER AVE</b>								
* EX SAS 3958-011	SAS #7	922.16	<b>922.50</b>	<b>22</b>	<b>1.50%</b>	8"	AWWA C900 DR-18	
* SAS #7	SAS #7A	<b>922.60</b>	<b>934.04</b>	<b>238</b>	<b>4.80%</b>	8"	SDR-35	
* SAS #7A	SAS #8	<b>934.14</b>	<b>943.58</b>	<b>261</b>	<b>3.62%</b>	8"	SDR-35	
SAS #8	SAS #9	943.68	952.14	300	2.82%	8"	SDR-35	
* SAS #9	SAS #10	952.24	958.76	276	2.36%	8"	AWWA C900 DR-18	
* SAS #10	SAS #10A	958.86	961.09	<b>52</b>	<b>4.31%</b>	8"	SDR-35	
SAS #10	SAS #11	958.86	964.42	299	1.86%	8"	SDR-35	
* SAS #11	SAS #11A	964.52	967.77	<b>53</b>	<b>6.13%</b>	8"	SDR-35	
SAS #11	SAS #12	964.52	974.03	299	3.18%	8"	SDR-35	
* SAS #12	SAS #12A	974.13	978.38	<b>51</b>	<b>8.26%</b>	8"	SDR-35	
SAS #12	SAS #13	974.13	990.30	325	4.97%	8"	SDR-35	
SAS #13	SAS #14	990.40	998.70	275	3.02%	8"	SDR-35	
* SAS #14	SAS #14A	998.80	1001.10	<b>52</b>	<b>4.41%</b>	8"	SDR-35	
* SAS #14	SAS #15	998.80	1007.71	206	<b>4.32%</b>	8"	SDR-35	
<b>EUCLID AVE</b>								
SAS #13	SAS #16	990.40	1001.22	483	2.24%	8"	SDR-35	
SAS #16	SAS #17	1001.32	1009.21	261	3.02%	8"	SDR-35	
SAS #17	SAS #18	1009.31	1010.08	191	0.40%	8"	SDR-35	
<b>ST CLAIR ST</b>								
SAS #19	SAS #20	928.84	929.83	395	0.25%	12"	SDR-26	
SAS #19	SAS #21	929.34	941.67	282	4.37%	8"	SDR-26	

## SPECIFIC NOTES

- (1) STRUCTURE HAS INSIDE DROP
- (2) INSTALL OFFSET CONE; SET CASTING ON SW SIDE (OUTSIDE OF GUTTER)
- (3) INSTALL OFFSET CONE; SET CASTING ON EAST SIDE (INCREASE DISTANCE FROM CL)



# SANITARY SEWER SCHEDULE

TOEPFFER, HOLLY, EUCLID & ST CLAIR RESURFACING W/UTILITIES	SHEET NO.
PROJECT NO. 11744	U-13
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

U-13

## SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ST CLAIR ST</b>						
SAS 3958-004	402+68.56	RT-0.24	951.32	941.22	10.10	
SAS 3958-005	404+98.89	LT-1.59	941.57	928.78	12.79	
SAS 3958-006	408+87.26	LT-13.12	938.04	931.02	7.02	
<b>TOEPFFER AVE</b>						
SAS 3958-012	303+05.69	LT-0.84	945.40	935.20	10.20	
SAS 3958-013	305+66.09	RT-24.47	956.75	945.17	11.58	
SAS 3958-003	308+41.35	RT-26.36	961.57	952.97	8.60	
SAS 3957-013	311+41.61	RT-27.08	968.34	960.12	8.22	
SAS 3957-009	314+41.09	RT-28.20	974.52	965.12	9.40	
SAS 3957-004	317+39.95	RT-27.48	985.23	975.13	10.10	
SAS 3956-021	320+39.24	RT-27.10	1000.40	991.16	9.24	
SAS 3956-012	323+39.49	RT-26.92	1008.64	1000.22	8.42	
SAS 3956-013	325+45.94	RT-25.93	1017.36	1009.32	8.04	
PLUG-1	305+98.82	RT-24.70				
PLUG-2	308+98.49	RT-26.49				
PLUG-3	311+98.17	RT-27.29				
PLUG-4	314+98.29	RT-28.07				
PLUG-5	318+01.95	RT-27.40				
PLUG-6	320+99.41	RT-27.06				
PLUG-7	323+97.57	RT-26.64				
<b>EUCLID AVE</b>						
SAS 3956-022	208+92.97	RT-25.35	1002.66	993.58	9.08	
SAS 3956-025	205+10.83	RT-23.87	1010.87	1002.77	8.10	
SAS 3856-011	202+69.13	RT-23.61	1021.24	1012.70	8.54	
SAS 3956-011	208+91.94	LT-22.68	1003.40	995.92	7.48	
SAS 3956-026	205+11.03	LT-23.26	1012.90	1004.85	8.05	
SAS 3856-013	202+68.62	LT-22.68	1021.43	1013.80	7.63	
SAS 3856-012	202+05.34	RT-23.59	1021.26	1012.60	8.66	
PLUG-8	209+56.21	RT-25.60				
PLUG-9	205+33.28	RT-23.97				
PLUG-10	204+87.31	RT-23.84				
PLUG-11	205+34.43	LT-23.20				
PLUG-12	204+88.01	LT-23.20				
PLUG-13	200+30.16	RT-24.24				
<b>HOLLY AVE</b>						
SAS 3856-010	102+75.52	CL	1018.18	1009.60	8.58	
SAS 3856-015	105+76.30	RT-0.82	1016.64	1004.62	12.02	
SAS 3856-014	106+22.44	RT-0.89	1016.49	1004.75	11.74	
SAS 3856-019	108+77.27	RT-2.09	1016.14	1005.77	10.37	

## SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	REM PIPE LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
<b>ST CLAIR ST</b>							
SAS 3958-005	SAS 3958-006	395	0	VCP	12	N	
SAS 3958-005	SAS 3958-004	230	0	VCP	6	N	
<b>TOEPFFER AVE</b>							
SAS 3958-011	SAS 3958-012	260	0	VCP	8	N	
SAS 3958-012	SAS 3958-013	262	222	VCP	8	Y	
SAS 3958-013	PLUG-1	33	33	VCP	8	Y	
PLUG-1	SAS 3958-003	242	0	VCP	8	N	(1) ABN W/ PLUGS
SAS 3958-003	PLUG-2	57	57	VCP	8	Y	
PLUG-2	SAS 3957-013	243	0	VCP	8	N	(1) ABN W/ PLUGS
SAS 3957-013	SAS #10	27	27	VCP	8	Y	
SAS 3957-013	PLUG-3	56	56	VCP	8	Y	
PLUG-3	SAS 3957-009	243	0	VCP	8	N	(1) ABN W/ PLUGS
SAS 3957-009	SAS #11	28	28	VCP	8	Y	
SAS 3957-009	PLUG-4	57	57	VCP	8	Y	
PLUG-4	SAS 3957-004	242	0	VCP	8	N	(1) ABN W/ PLUGS
SAS 3957-004	SAS #12	27	27	VCP	8	Y	
SAS 3957-004	PLUG-5	62	62	VCP	8	Y	
PLUG-5	SAS 3956-021	237	0	VCP	8	N	(1) ABN W/ PLUGS
SAS 3956-021	PLUG-6	60	60	VCP	8	Y	
PLUG-6	SAS 3956-012	240	240	VCP	8	N	(1) ABN W/ PLUGS
SAS 3956-012	SAS #14	27	27	VCP	8	Y	
SAS 3956-012	PLUG-7	59	59	VCP	8	Y	
PLUG-7	SAS 3956-013	147	147	VCP	8	N	(1) ABN W/ PLUGS
<b>EUCLID AVE</b>							
SAS 3956-021	PLUG-8	65	65	VCP	8	Y	
PLUG-8	SAS 3956-022	63	63	VCP	8	N	(1) ABN W/ PLUGS
SAS 3956-022	PLUG-9	360	0	VCP	6	N	(1) ABN W/ PLUGS
PLUG-9	SAS 3956-025	22	22	VCP	6	Y	
SAS 3956-025	PLUG-10	24	24	VCP	6	Y	
PLUG-10	SAS 3856-011	218	0	VCP	6	N	(1) ABN W/ PLUGS
SAS 3956-022	SAS 3956-011	48	48	VCP	6	Y	
SAS 3956-011	PLUG-11	358	0	VCP	6	N	(1) ABN W/ PLUGS
PLUG-11	SAS 3956-026	23	23	VCP	6	Y	
SAS 3956-026	PLUG-12	23	23	VCP	6	Y	
PLUG-12	SAS 3856-013	182	0	VCP	6	N	(1) ABN W/ PLUGS
SAS 3856-010	PLUG-13	30	30	VCP	6	Y	
PLUG-13	SAS 3856-012	175	0	VCP	6	N	(1) ABN W/ PLUGS
<b>HOLLY AVE</b>							
SAS #1	SAS 3856-010	220	0	VCP	8	N	
SAS 3856-010	SAS 3856-015	301	0	VCP	8	N	
SAS 3856-015	SAS 3856-014	46	0	VCP	8	N	
SAS 3856-014	SAS #4A	43	43	VCP	6	Y	
SAS 3856-014	SAS 3856-019	255	0	VCP	8	N	

# STORM SEWER SCHEDULE

\* REV 3/16/20 DAO  
\*\* REV 6/1/20 DAO

TOEPFER, HOLLY, EUCLID & ST CLAIR RESURFACING W/UTILITIES	SHEET NO.
PROJECT NO. 11744	U-14
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-14

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ST CLAIR ST</b>							
* S-1	408+96.43	CL	6X6 CATCHBASIN	937.36	931.80	5.56	(1)(3); W/NF-T2777 (x2)
* S-2	408+56.92	LT-5.90	4X4 SAS	937.33	932.05	5.28	W/1550-0054
** S-3	407+63.79	LT-10.52	4X4 SAS	936.91	932.61	4.30	FP; W/1550-0054
** S-3A	407+61.90	LT-14.50	H INLET	937.45	934.11	3.34	LP; W/3067-7004-VB
** S-3B	407+51.90	LT-14.50	H INLET	937.54	934.22	3.32	W/3067-7004-V
S-3C	407+62.50	RT-18.00	TERRACE INLET TYPE 3	936.81	933.18	3.63	LP; FP;(2)
** S-4	405+79.01	LT-10.52	4X4 SAS	939.33	933.75	5.58	W/1550-0054
** S-5	404+00.03	LT-10.52	4X4 SAS	944.25	938.15	6.10	W/1550-0054
* S-6	401+08.96	LT-6.14	4X4 SAS	960.18	954.75	5.43	FP; W/1550-0054
<b>TOEPFER AVE</b>							
S-6A	308+51.27	RT-39.40	H INLET	960.49	957.09	3.40	W/3067-7004-V
S-6B	308+80.27	RT-39.44	H INLET	960.48	957.08	3.40	W/3067-7004-V
* S-7	308+96.79	RT-10.33	4X4 SAS	962.01	955.60	6.41	FP; W/1550-0054
S-7A	309+01.47	RT-15.51	H INLET	962.23	957.17	5.06	W/3067-7004-V
** S-7B	308+79.90	LT-38.69	H INLET	964.71	958.21	6.50	W/3067-7004-V
S-7C	308+50.90	LT-39.14	H INLET	964.49	961.10	3.39	W/3067-7004-V
* S-8	309+56.57	RT-10.36	4X4 SAS	962.62	956.96	5.66	W/1550-0054
* S-9	309+80.57	LT-1.47	4X4 SAS	963.26	957.40	5.86	W/1550-0054
** S-9A	309+80.99	LT-15.50	H INLET	964.06	958.90	5.16	W/3067-7004-V
* S-10	311+33.41	LT-3.41	3X3 SAS	968.50	962.96	5.54	W/1550-0054
** S-10A	311+50.76	LT-39.15	H INLET	970.08	965.00	5.08	FP; W/3067-7004-V
** S-10B	311+79.76	LT-38.88	H INLET	971.31	967.89	3.42	W/3067-7004-V
* S-11	311+97.15	LT-3.34	3X3 SAS	970.91	965.33	5.58	W/1550-0054
S-11A	312+01.65	RT-15.50	H INLET	970.93	966.96	3.97	W/3067-7004-V
S-11B	311+80.16	RT-39.35	H INLET	970.04	967.20	2.84	FP; W/3067-7004-V
** S-11C	312+01.53	LT-15.50	H INLET	971.76	966.01	5.75	W/3067-7004-V
* S-12	314+32.88	LT-2.62	3X3 SAS	975.43	969.37	6.06	W/1550-0054
** S-12A	314+51.00	LT-39.12	H INLET	976.93	971.09	5.84	FP; W/3067-7004-V
** S-12B	314+80.00	LT-38.90	H INLET	977.70	974.28	3.42	W/3067-7004-V
* S-13	314+94.18	LT-2.88	3X3 SAS	975.84	970.33	5.51	W/1550-0054
S-13A	315+01.53	RT-15.50	H INLET	975.46	971.93	3.53	W/3067-7004-V
S-13B	315+01.05	LT-15.50	H INLET	976.85	973.32	3.53	W/3067-7004-V
** S-13X	315+82.42	LT-3.38	3X3 SAS	977.94	972.08	5.86	W/1550-0054
* S-14	317+31.70	LT-4.33	3X3 SAS	985.26	979.92	5.34	W/1550-0054
** S-14A	317+49.15	LT-38.97	H INLET	988.07	981.56	6.51	FP; W/3067-7004-V
** S-14B	317+80.15	LT-38.76	H INLET	989.15	985.63	3.52	W/3067-7004-V
** S-15	317+98.18	LT-4.22	3X3 SAS	988.54	982.28	6.26	W/1550-0054
S-15A	318+02.05	RT-15.50	H INLET	988.55	984.83	3.72	W/3067-7004-V
** S-15B	318+00.85	LT-15.50	H INLET	989.34	983.00	6.34	W/3067-7004-V

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>ST CLAIR ST</b>										
* P-1	S-1	S-2	931.80	932.05	41	35	0.71%	29 x 45	HERCP	
* P-2	S-2	S-3	932.05	932.61	93	89	0.63%	29 x 45	HERCP	
** P-2A	S-3	S-3A	934.06	934.11	4	1	9.26%	12"	RCP	
P-2B	S-3A	S-3B	934.16	934.22	10	8	0.75%	12"	RCP	
** P-2C	S-3	S-3C	933.06	933.18	29	25	0.48%	24"	RCP	
P-3	S-3	S-4	932.64	933.75	185	181	0.61%	29 x 45	HERCP	
P-4	S-4	S-5	933.75	938.15	179	175	2.51%	30"	RCP	
** P-5	S-5	S-6	938.20	954.75	292	288	5.75%	30"	RCP	
<b>TOEPFER AVE</b>										
* P-5A	S-6	S-6A	956.25	957.09	21	19	4.39%	12"	RCP	
P-5B	S-6	S-6B	956.25	957.08	8	7	11.79%	12"	RCP	
P-6	S-6	S-7	954.85	955.60	39	37	2.03%	30"	RCP	
P-6A	S-7	S-7A	957.10	957.17	7	3	2.13%	12"	RCP	
** P-6B	S-7	S-7B	956.23	958.21	52	49	4.06%	12"	RCP	NCM
P-6C	S-7B	S-7C	959.80	961.10	29	26	4.98%	12"	RCP	
P-7	S-7	S-8	955.70	956.96	60	57	2.22%	30"	RCP	
* P-8	S-8	S-9	957.06	957.40	27	22	1.53%	30"	RCP	
** P-8A	S-9	S-9A	958.03	958.90	14	11	8.17%	12"	RCP	NCM
* P-9	S-9	S-10	957.50	962.96	153	150	3.65%	30"	RCP	
** P-9A	S-10	S-10A	963.59	965.00	40	37	3.82%	12"	RCP	NCM
** P-9B	S-10A	S-10B	966.93	967.89	29	26	3.68%	12"	RCP	NCM
* P-10	S-10	S-11	963.06	965.33	64	61	3.73%	30"	RCP	
* P-10A	S-11	S-11A	966.83	966.96	19	16	0.80%	12"	RCP	
P-10B	S-11A	S-11B	967.01	967.20	32	29	0.65%	12"	RCP	
** P-10C	S-11	S-11C	965.95	966.01	13	10	0.62%	12"	RCP	NCM
* P-11	S-11	S-12	965.83	969.37	236	233	1.52%	24"	RCP	
** P-11A	S-12	S-12A	969.87	971.09	41	38	3.21%	12"	RCP	NCM
** P-11B	S-12A	S-12B	973.61	974.28	29	26	2.57%	12"	RCP	NCM
* P-12	S-12	S-13	969.47	970.33	61	58	1.47%	24"	RCP	
* P-12A	S-13	S-13A	971.33	971.93	20	17	3.62%	12"	RCP	
* P-12B	S-13	S-13B	972.24	973.32	14	11	9.80%	12"	RCP	NCM
** P-13	S-13	S-13X	970.38	972.08	88	85	1.99%	24"	RCP	
** P-13X	S-13X	S-14	972.18	979.92	149	147	5.28%	24"	RCP	
** P-13A	S-14	S-14A	980.40	981.56	39	36	3.22%	12"	RCP	NCM
P-13B	S-14A	S-14B	984.59	985.63	31	28	3.71%	12"	RCP	
** P-14	S-14	S-15	980.02	982.28	66	64	3.55%	24"	RCP	
** P-14A	S-15	S-15A	983.28	984.83	20	17	9.08%	12"	RCP	
** P-14B	S-15	S-15B	982.78	983.00	12	9	2.53%	12"	RCP	NCM

### SPECIFIC NOTES:

- (1) INVERT GIVEN IS FOR OUTGOING PIPE; ADD 3' SUMP; CONSTRUCT PER S.D.D. 5.7.4
- (2) SET GRATE 0.2' BELOW TOC
- (3) HYDROVENTS TO BW INSTALLED SUCH THAT THE OPENING POINTS UP-STATION

### STANDARD NOTES:

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

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

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

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

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

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

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

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

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

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.



# STORM SEWER SCHEDULE

\* REV 3/16/20 DAO  
\*\* REV 6/1/20 DAO

TOEPFER, HOLLY, EUCLID & ST CLAIR RESURFACING W/UTILITIES	SHEET NO.
PROJECT NO. 11744	U-15
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-15

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>TOEPFER AVE</b>							
** S-16	320+31.10	LT-3.93	3X3 SAS	1000.08	994.45	5.63	W/1550-0054
** S-16A	320+49.13	LT-39.49	H INLET	1001.87	995.65	6.22	FP; W/3067-7004-V
S-16B	320+48.94	LT-66.18	H INLET	1001.92	998.57	3.35	LP; W/3067-7004-VB
S-16C	320+80.13	LT-39.37	H INLET	1002.90	998.87	4.03	W/3067-7004-V
S-16D	320+79.94	LT-66.40	H INLET	1002.76	999.58	3.18	LP; W/3067-7004-VB
** S-17	320+92.72	LT-3.87	3X3 SAS	1002.52	996.00	6.52	W/1550-0054
* S-17A	321+00.88	RT-15.50	H INLET	1002.72	998.08	4.64	FP; W/3067-7004-V
* S-17B	320+80.68	RT-38.56	H INLET	1001.57	998.36	3.21	FP; W/3067-7004-V
S-17C	321+00.67	LT-15.50	H INLET	1003.28	999.77	3.51	W/3067-7004-V
** S-18	323+28.00	LT-3.74	3X3 SAS	1008.43	1001.81	6.62	W/1550-0054
** S-18A	323+48.59	LT-39.31	H INLET	1010.17	1004.41	5.76	FP; W/3067-7004-V
** S-18B	323+79.59	LT-39.32	H INLET	1011.36	1005.30	6.06	FP; W/3067-7004-V
** S-18C	324+00.24	LT-15.50	H INLET	1011.58	1005.72	5.86	FP; W/3067-7004-V
** S-18D	324+00.86	RT-15.50	H INLET	1011.05	1006.13	4.92	FP; W/3067-7004-V
S-19	300+05.55	RT-3.56	COLLAR	-	925.67	-	
S-20	300+15.55	RT-4.96	TERRACE INLET TYPE 2	931.29	926.48	4.81	(1)
** S-21	300+71.13	RT-10.40	3X3 SAS	931.76	928.47	3.29	FP; W/1550-0054
** S-21A	300+82.13	RT-15.50	H INLET	932.06	928.81	3.25	W/3067-7004-V
** S-21B	300+60.33	RT-40.00	H INLET	931.78	928.80	2.98	LP; FP; W/3067-7004-VB
** S-21C	300+79.54	LT-15.59	H INLET	932.31	928.53	3.78	W/3067-7004-V
S-21D	300+60.73	LT-39.99	H INLET	932.04	928.65	3.39	LP; W/3067-7004-VB
** S-21X	301+00.01	RT-10.40	3X3 SAS	932.30	928.80	3.50	W/1550-0054
** S-22	305+27.92	RT-10.33	3X3 SAS	954.86	949.90	4.96	W/1550-0054
** S-22A	305+29.66	LT-15.50	H INLET	955.79	950.03	5.76	W/3067-7004-V
S-23	305+28.79	RT-15.50	H INLET	955.20	951.61	3.59	W/3067-7004-V
S-23A	306+01.30	RT-15.50	H INLET	957.60	953.73	3.87	W/1550-0054
** S-23B	306+20.01	LT-15.50	H INLET	959.07	956.25	2.82	FP; W/3067-7004-V

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>TOEPFER AVE</b>										
** P-15	S-15	S-16	982.78	994.45	233	230	5.07%	18"	RCP	
** P-15A	S-16	S-16A	994.45	995.65	40	37	3.24%	15"	RCP	
P-15B	S-16A	S-16B	997.95	998.57	27	25	2.51%	12"	RCP	
P-15C	S-16A	S-16C	997.95	998.87	31	28	3.28%	12"	RCP	
P-15D	S-16C	S-16D	998.97	999.58	27	25	2.43%	12"	RCP	
** P-16	S-16	S-17	994.55	996.00	62	59	2.47%	18"	RCP	
* P-16A	S-17	S-17A	997.95	998.08	21	18	0.73%	12"	RCP	
P-16B	S-17A	S-17B	998.18	998.36	31	28	0.65%	12"	RCP	
** P-16C	S-17	S-17C	998.95	999.77	14	10	7.85%	12"	RCP	
** P-17	S-17	S-18	996.25	1001.81	235	232	2.39%	15"	RCP	
** P-17A	S-18	S-18A	1001.81	1004.41	41	38	6.79%	15"	RCP	
** P-17B	S-18A	S-18B	1004.66	1005.30	31	28	2.28%	12"	RCP	
** P-17C	S-18B	S-18C	1005.40	1005.72	32	29	1.12%	12"	RCP	
** P-17D	S-18C	S-18D	1005.82	1006.13	31	28	1.11%	12"	RCP	
P-18	S-19	S-20	925.67	926.48	10	8	10.04%	18"	RCP	
** P-19	S-20	S-21	928.25	928.47	56	52	0.42%	14"x23"	HERCP	NCM
** P-19A	S-21	S-21A	928.64	928.81	12	9	1.82%	12"	RCP	
** P-19B	S-21	S-21B	928.64	928.80	32	29	0.55%	12"	RCP	
** P-19C	S-21	S-21C	928.47	928.53	27	24	0.25%	12"	RCP	NCM
** P-19D	S-21C	S-21D	928.53	928.65	31	28	0.43%	12"	RCP	
** P-20	S-21	S-21X	928.47	928.80	29	26	1.27%	15"	RCP	NCM
** P-20X	S-21X	S-22	928.90	949.90	428	426	4.93%	15"	RCP	
** P-20A	S-22	S-22A	949.90	950.03	26	23	0.57%	12"	RCP	
** P-21	S-22	S-23	951.15	951.61	5	2	19.83%	12"	RCP	NCM
P-22	S-23	S-23A	951.00	953.73	73	71	3.87%	12"	RCP	
** P-23	S-23A	S-23B	954.83	956.25	36	33	4.35%	12"	RCP	NCM
<b>HOLLY AVE</b>										
P-24A	S-24	S-24A	1012.30	1012.32	4	1	3.45%	12"	RCP	
P-24B	S-24A	S-24B	1012.37	1012.53	32	29	0.55%	12"	RCP	
P-25A	T-1	S-25A	1012.47	1012.50	5	4	0.85%	12"	RCP	
P-25B	S-25A	S-25B	1012.55	1012.68	25	23	0.56%	12"	RCP	
P-25C	S-25A	S-25C	1012.55	1012.71	32	29	0.55%	12"	RCP	
P-25D	S-25C	S-25D	1012.76	1012.89	25	23	0.56%	12"	RCP	
P-26A	T-2	S-26A	1013.42	1013.61	38	37	0.52%	12"	RCP	
P-26B	T-2	S-26B	1012.82	1013.07	51	50	0.50%	12"	RCP	
P-26C	T-2	S-26C	1012.82	1013.48	17	16	4.02%	12"	RCP	
P-27A	T-3	S-27A	1015.02	1015.19	26	24	0.70%	12"	RCP	
P-27B	S-27A	S-27B	1015.24	1015.42	31	28	0.64%	12"	RCP	

### SPECIFIC NOTES:

(1) SET GRATE 0.2' BELOW TOC

# STORM SEWER SCHEDULE

\*\* REV 6/1/20 DAO

TOEPFER, HOLLY, EUCLID & ST CLAIR RESURFACING W/UTILITIES	SHEET NO.
PROJECT NO. 11744	U-16
STORM SEWER SCHEDULE	
CITY OF MADISON	

U-16

## REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>ST CLAIR ST</b>					
RS-1	AS 3958-011	407+62.41	LT-17.57	5X7 CATCH BASIN	937.26
RS-2	IN 3958-013	407+64.32	LT-14.32	INLET	936.66
RS-3	IN 3958-012	407+60.40	LT-14.31	INLET	936.68
RS-4	IN 3958-014	407+62.50	RT-14.18	INLET	936.26
<b>TOEPFER AVE</b>					
RS-5	AS 3959-034	300+12.70	RT-3.48	5X7 CATCH BASIN	931.68
RS-6	IN 3958-018	300+66.63	LT-25.49	INLET	933.45
RS-7	IN 3958-019	300+64.64	RT-25.58	INLET	931.75
RS-8	IN 3958-015	300+19.79	RT-1.71	INLET	931.31
RS-9	IN 3958-017	300+19.72	RT-6.04	INLET	931.27
RS-10	IN 3958-016	300+19.71	RT-10.37	INLET	931.28
RS-11	IN UNK-1	300+19.70	RT-14.70	INLET	931.31

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>HOLLY AVE</b>					
RS-12	IN 3856-011	108+63.30	RT-15.87	INLET	1014.89
RS-13	IN 3856-010	108+61.89	LT-15.92	INLET	1015.34
RS-14	IN 3856-017	107+19.95	RT-15.80	INLET	1014.79
RS-15	IN 3856-016	107+19.97	LT-15.69	INLET	1014.73
RS-16	IN UNK-2	106+14.57	RT-35.27	INLET	1015.66
RS-17	IN 3856-015	105+65.93	RT-15.53	INLET	1015.54
RS-18	IN 3856-014	106+04.85	LT-16.22	INLET	1015.46
RS-19	IN 3856-009	103+15.62	RT-33.85	INLET	1018.42
RS-20	IN 3856-008	102+83.86	RT-33.97	INLET	1017.97

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>TOEPFER AVE</b>				
** ULO1	300+20.76	RT-12.46	TUG	
** ULO2	300+83.43	LT-18.01	6" GAS	TOP @ 927.63
** ULO3	300+82.87	LT-9.08	TUG DUCT	TOP @ 930.88, BOT @ 929.71
** ULO4	305+23.87	LT-7.80	TUG DUCT	TOP @ 952.82, BOT @ 951.34
** ULO5	306+13.17	LT-8.00	TUG DUCT	TOP @ 955.27, BOT @ 954.35
** ULO6	308+88.74	LT-17.80	6" GAS	TOP @ 959.86
** ULO7	308+91.23	LT-9.08	TUG DUCT	TOP @ 959.97, BOT @ 958.50
** ULO8	309+80.66	LT-8.90	TUG DUCT	TOP @ 961.41, BOT @ 959.90
** ULO9	311+36.61	LT-8.07	TUG DUCT	TOP @ 966.58, BOT @ 965.10
** ULO10	311+41.00	LT-18.12	6" GAS	TOP @ 966.29
** ULO11	311+96.90	LT-8.23	TUG DUCT	TOP @ 968.13, BOT @ 967.18
** ULO12	313+24.78	LT-2.45	6" TUG	TOP @ 972.57
** ULO13	314+35.28	LT-7.69	TUG DUCT	TOP @ 973.01, BOT @ 971.50
** ULO14	314+41.19	LT-18.08	6" GAS	TOP @ 972.86
** ULO14B	314+46.09	LT-41.64	2" GAS	TOP @ 973.55
** ULO15	314+94.65	LT-7.88	TUG DUCT	TOP @ 971.97, BOT @ 970.48
** ULO15B	315+52.52	LT-4.34	4" PL GAS	TOP @ 974.79
** ULO16	317+36.22	LT-8.16	TUG DUCT	TOP @ 983.33, BOT @ 982.31
** ULO17	317+39.18	LT-18.29	6" GAS	TOP @ 982.54
** ULO18	317+98.02	LT-10.11	TUG DUCT	TOP @ 986.89, BOT 984.37
** ULO18B	317+99.40	LT-17.39	6" GAS	TOP @ 985.96
** ULO19	320+34.63	LT-9.03	TUG DUCT	TOP @ 998.45, BOT @ 984.37
** ULO20	320+39.70	LT-18.27	6" GAS	TOP @ 997.41
** ULO21	320+82.53	LT-1.36	3" GAS	TOP @ 998.00
** ULO22	320+97.07	LT-7.69	TUG DUCT	TOP @ 998.29, BOT @ 996.64
** ULO22B	321+00.91	LT-18.23	6" GAS	TOP @ 999.15

## SPECIFIC NOTES

(1) RECONSTRUCT CATCH BASIN W/ SAS COVER

## REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>ST CLAIR ST</b>							
RP-1	RS-1	RS-3	4	12"	VCP	N	
RP-2	RS-1	RS-2	4	12"	VCP	N	
RP-3	RS-1	RS-4	32	12"	VCP	N	
<b>HOLLY AVE</b>							
RP-4	ADJ-1	RS-14	7	12"	RCP	N	
RP-5	ADJ-1	RS-15	37	12"	RCP	N	
RP-6	ADJ-2	RS-16	14	12"	RCP	N	
RP-7	ADJ-2	RS-17	48	12"	RCP	N	
RP-8	ADJ-2	RS-18	38	12"	RCP	N	
RP-9	ADJ-3	RS-19	23	12"	RCP	N	
RP-10	ADJ-3	RS-20	52	12"	RCP	Y	

## STORM SEWER ABANDONMENTS

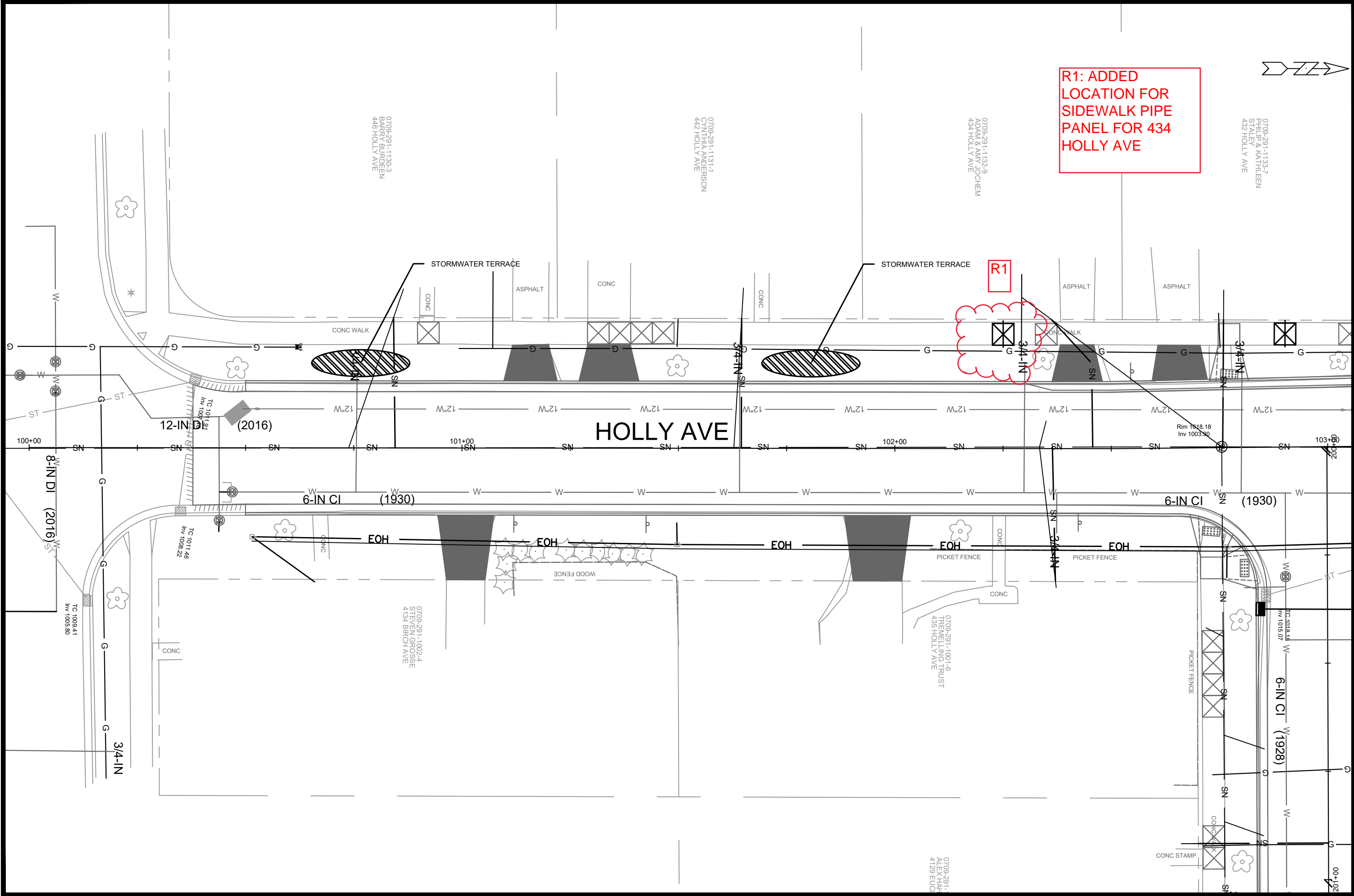
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES
<b>ST CLAIR ST</b>							
ABN-1	AS 3958-027	RS-1	136	15"	RCP	Y	ABN W/ PLUGS
<b>TOEPFER AVE</b>							
ABN-2	RS-5	RS-6	61	12"	VCP	Y	ABN W/ PLUGS
ABN-3	RS-5	RS-7	55	12"	VCP	Y	ABN W/ PLUGS
<b>HOLLY AVE</b>							
ABN-4	AS 3855-011	RS-13	71	12"	VCP	Y	ABN W/ PLUGS
ABN-5	AS 3855-011	RS-12	61	12"	VCP	Y	ABN W/ PLUGS

## STORM STRUCTURE ADJUSTMENTS

ADJUST NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
<b>HOLLY AVE</b>						
ADJ-1	106+14.08	RT-21.08	1016.12	-	-	(1)
ADJ-2	103+34.27	RT-20.44	1018.42	-	-	(1)

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>TOEPFER AVE</b>				
** ULO23	323+29.58	LT-9.20	TUG DUCT	TOP @ 1005.59, BOT @ 1004.07
** ULO24	323+39.95	LT-18.15	6" GAS	TOP @ 1006.88
** ULO25	323+99.82	LT-17.90	6" GAS	TOP @ 1007.52
** ULO26	324+01.35	LT-9.47	TUG DUCT	TOP @ 1008.59, BOT @ 1007.24
<b>ST CLAIR ST</b>				
** ULO27	407+66.79	LT-5.01	2" GAS	TOP @ 933.43
** ULO27B	407+71.70	LT-6.70	4" ELEC	TOP @ 934.22
** ULO28	408+93.70	RT-0.33	6" & 4" W/ CONC CAP	TOP @ 934.68, BOT @ 933.68
** ULO28B	408+90.52	LT-1.69	6" ST GAS	TOP @ 933.78
<b>HOLLY AVE</b>				
** ULO29	108+59.28	RT-25.40	2" GAS	TOP @ 1012.12
** ULO29B	108+60.41	RT-22.15	TWIN 1" ELEC	TOP @ 1013.00



**R1: ADDED  
LOCATION FOR  
SIDEWALK PIPE  
PANEL FOR 434  
HOLLY AVE**

MARK	REVISION	DATE	BY

Scale: #####

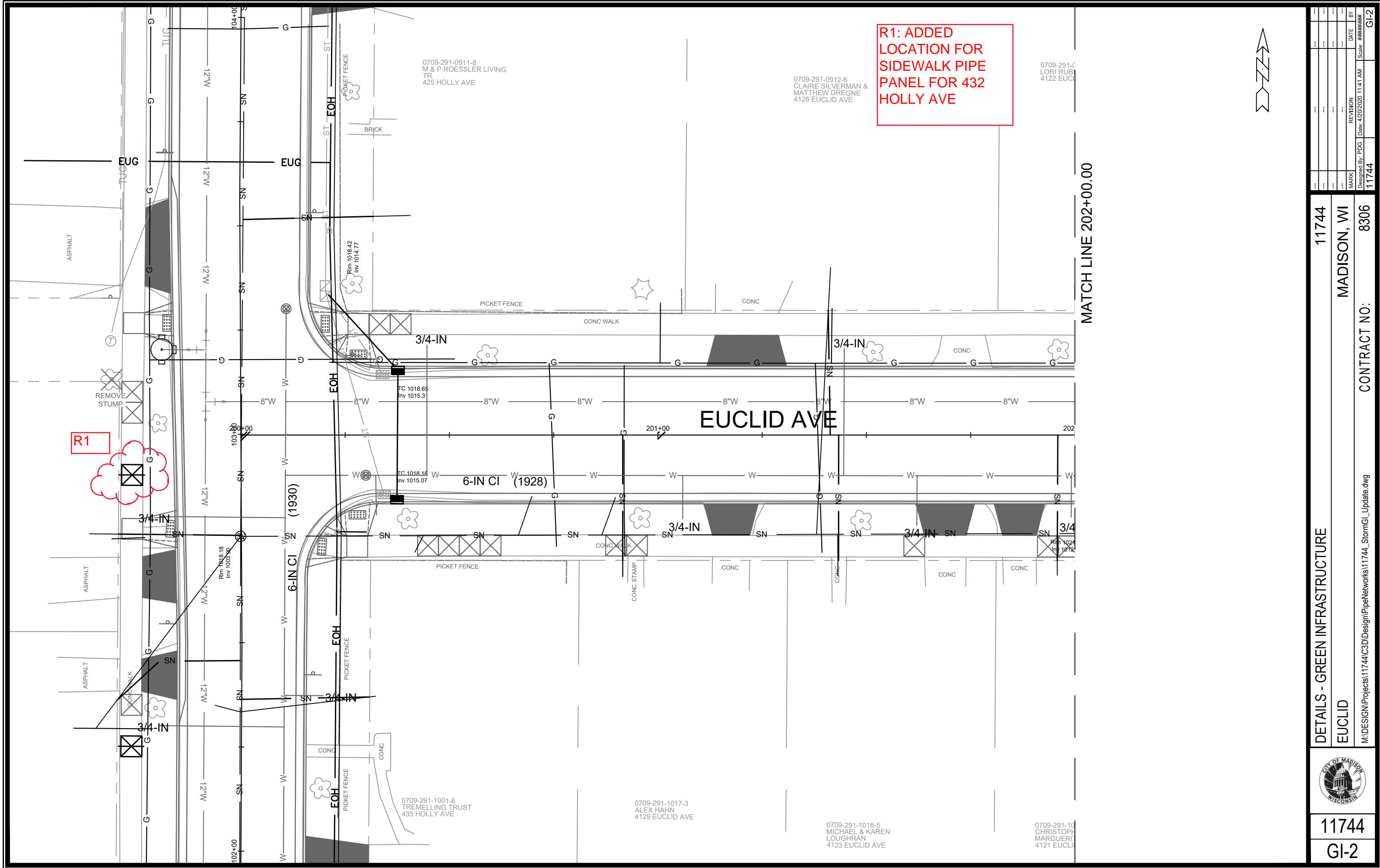
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11744  
MADISON, WI  
8306

CONTRACT NO:  
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11744  
GI-1



R1: ADDED LOCATION FOR SIDEWALK PIPE PANEL FOR 432 HOLLY AVE

MATCH LINE 202+00.00

MARK	REVISION	DATE	BY
11744	11744	11/24/20	GI-2

11744  
MADISON, WI  
CONTRACT NO: 8306

DETAILS - GREEN INFRASTRUCTURE  
EUCLID  
M:\DESIGN\Projects\11744\CS\Design\PipeNetworks\11744\_StormGI\_Update.dwg



11744  
GI-2

1913-4  
N  
D AVE

0709-291-0914-2  
DALE & SARAH KLOIBER  
4118 EUCLID AVE

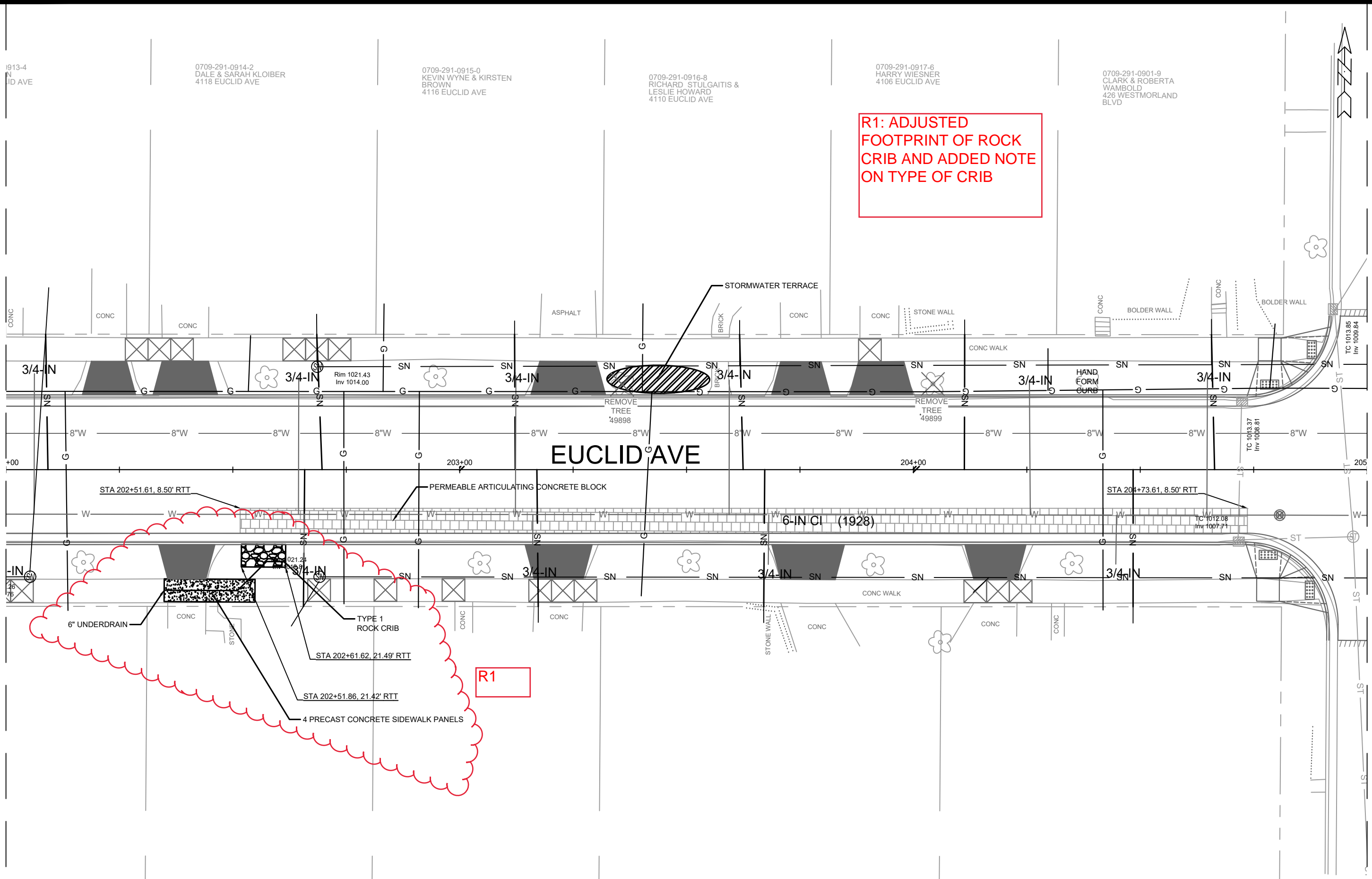
0709-291-0915-0  
KEVIN WYNE & KIRSTEN  
BROWN  
4116 EUCLID AVE

0709-291-0916-8  
RICHARD STULGAIIS &  
LESLIE HOWARD  
4110 EUCLID AVE

0709-291-0917-6  
HARRY WIESNER  
4106 EUCLID AVE

0709-291-0901-9  
CLARK & ROBERTA  
WAMBOLD  
426 WESTMORLAND  
BLVD

**R1: ADJUSTED  
FOOTPRINT OF ROCK  
CRIB AND ADDED NOTE  
ON TYPE OF CRIB**



MATCH LINE 202+00.00

MATCH LINE 205+00.00

**EUCLID AVE**

**R1**

15-7  
ER &  
E HILL  
D AVE

0709-291-1014-9  
ROBERT KAISER & WEI  
DING  
4117 EUCLID AVE

0709-291-1013-1  
JOHN & SHIRLEY  
LAEDLEIN  
4113 EUCLID AVE

0709-291-1012-3  
JEROME & ROSE PASDO  
4109 EUCLID AVE

0709-291-1011-5  
ALEXANDER & AMANDA  
HEUER  
434 WESTMORLAND  
BLVD

MARK	REVISION	DATE	BY
11744	11744	11/14/20	11744

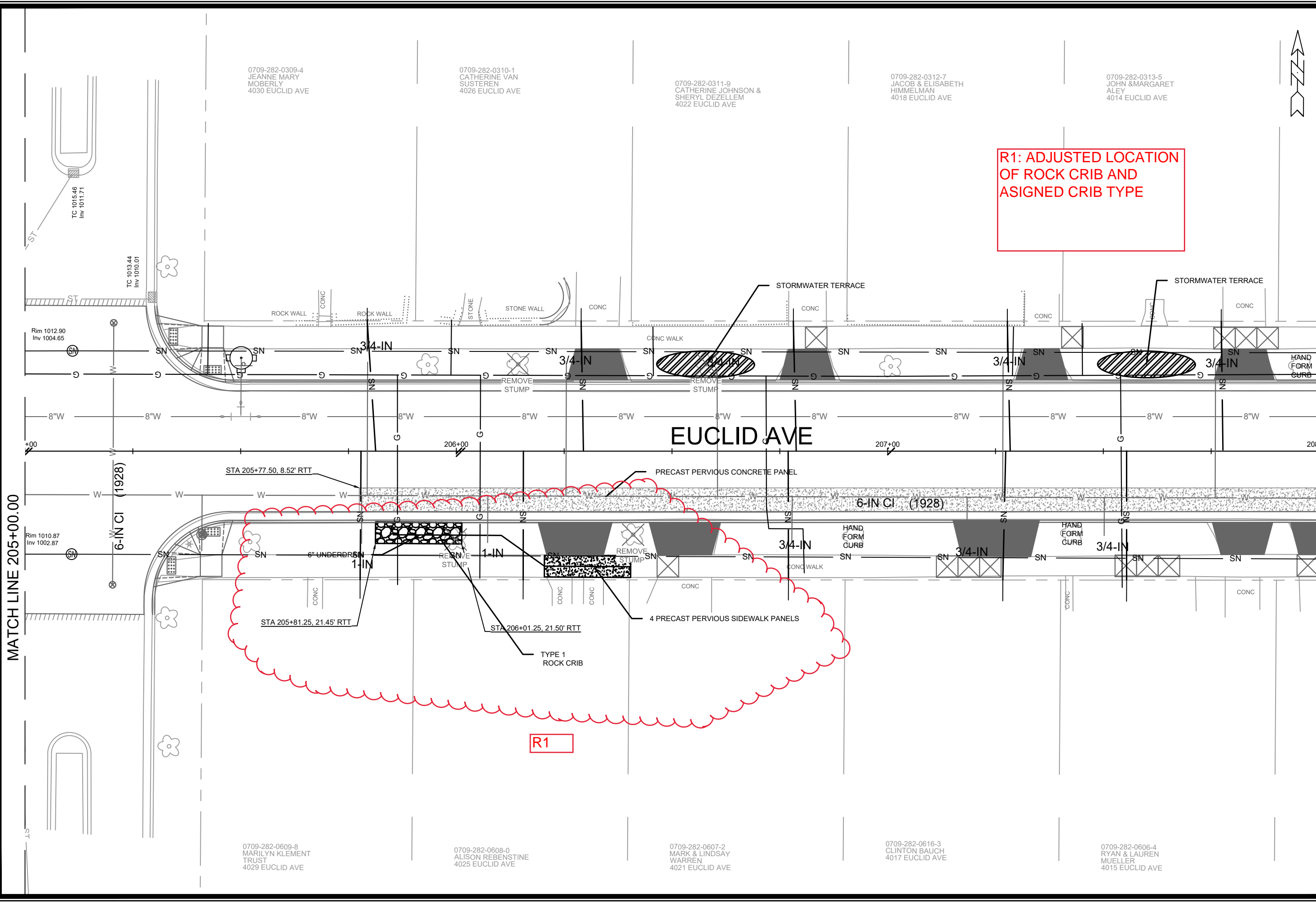
11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
EUCLID  
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11744  
GI-3





**R1: ADJUSTED LOCATION  
OF ROCK CRIB AND  
ASSIGNED CRIB TYPE**

MATCH LINE 205+00.00

MATCH LINE 208+00.00

0709-282-0309-4  
JEANNE MARY  
MOBERLY  
4030 EUCLID AVE

0709-282-0310-1  
CATHERINE VAN  
SUSTEREN  
4026 EUCLID AVE

0709-282-0311-9  
CATHERINE JOHNSON &  
SHERYL DEZELLEM  
4022 EUCLID AVE

0709-282-0312-7  
JACOB & ELISABETH  
HIMMELMAN  
4018 EUCLID AVE

0709-282-0313-5  
JOHN & MARGARET  
ALEY  
4014 EUCLID AVE

Rim 1010.87  
Inv 1002.87

Rim 1012.90  
Inv 1004.65

STA 205+77.50, 8.52' RTT

STA 205+81.25, 21.45' RTT

STA 206+01.25, 21.50' RTT

0709-282-0609-8  
MARILYN KLEMENT  
TRUST  
4029 EUCLID AVE

0709-282-0608-0  
ALISON REBENSTINE  
4025 EUCLID AVE

0709-282-0607-2  
MARK & LINDSAY  
WARREN  
4021 EUCLID AVE

0709-282-0616-3  
CLINTON BAUCH  
4017 EUCLID AVE

0709-282-0606-4  
RYAN & LAUREN  
MUELLER  
4015 EUCLID AVE

MARK	REVISION	DATE	BY

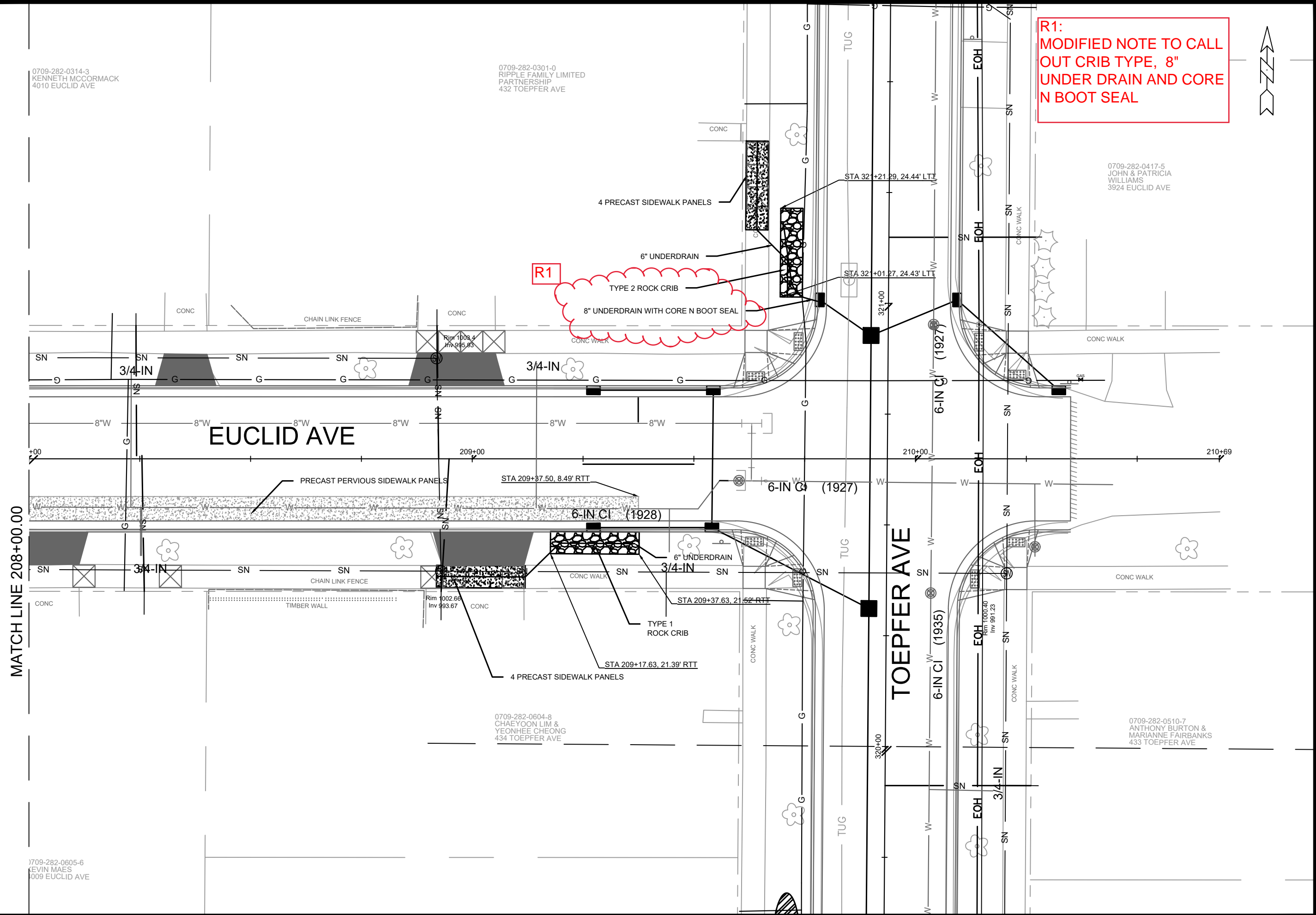
11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
EUCLID  
M:\DESIGN\Projects\11744\CS\Design\PipeNetworks\11744\_StormGI\_Update.dwg



11744  
GI-4

**R1:**  
MODIFIED NOTE TO CALL  
OUT CRIB TYPE, 8"  
UNDER DRAIN AND CORE  
N BOOT SEAL



0709-282-0314-3  
KENNETH MCCORMACK  
4010 EUCLID AVE

0709-282-0301-0  
RIPPLE FAMILY LIMITED  
PARTNERSHIP  
432 TOEPFER AVE

0709-282-0417-5  
JOHN & PATRICIA  
WILLIAMS  
3924 EUCLID AVE

0709-282-0604-8  
CHAEYOUNG LIM &  
YEONHEE CHEONG  
434 TOEPFER AVE

0709-282-0510-7  
ANTHONY BURTON &  
MARIANNE FAIRBANKS  
433 TOEPFER AVE

MATCH LINE 208+00.00

MARK	REVISION	DATE	BY
11744	11744	11/14/20	GI-5

11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE

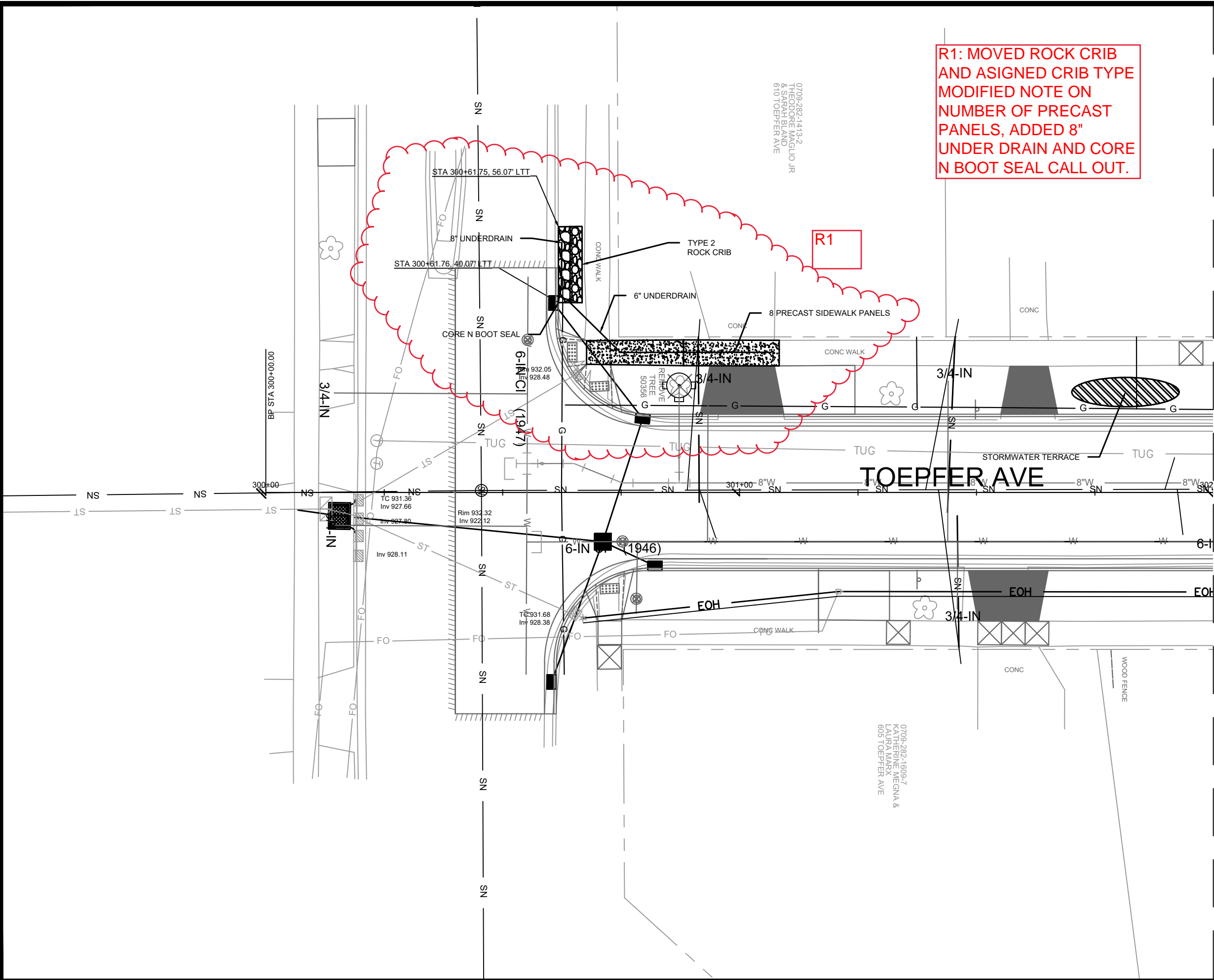
EUCLID



11744  
GI-5

0709-282-0605-6  
KEVIN MAES  
1009 EUCLID AVE

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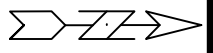


**R1: MOVED ROCK CRIB  
AND ASIGNED CRIB TYPE  
MODIFIED NOTE ON  
NUMBER OF PRECAST  
PANELS, ADDED 8"  
UNDER DRAIN AND CORE  
N BOOT SEAL CALL OUT.**

0709-282-1413-2  
THEODORE MAGLIUO JR  
& SARAH BLAND  
610 TOEPFER AVE

0709-282-1609-7  
KATHERINE WEGNA &  
LAURA MARY  
605 TOEPFER AVE

MATCH LINE 302+00.00



MARK	REVISION	DATE	BY

Designed By: ##  
11744  
Date: 4/20/2020 11:41 AM  
Scale: #####  
GI-6

11744  
MADISON, WI  
CONTRACT NO: 8306

DETAILS - GREEN INFRASTRUCTURE  
TOEPFER  
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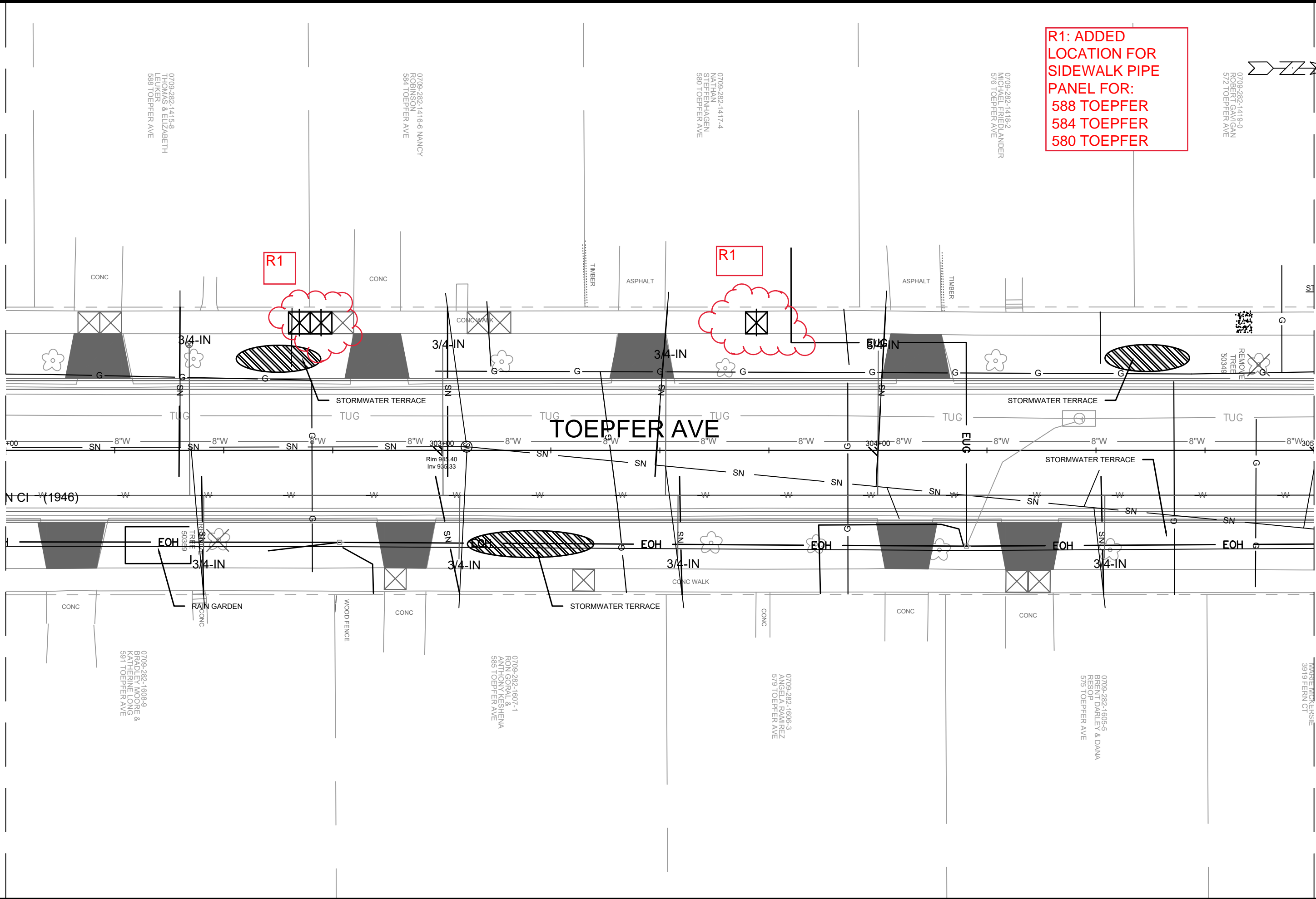


11744  
GI-6

MATCH LINE 302+00.00

MATCH LINE 305+00.00

R1: ADDED  
LOCATION FOR  
SIDEWALK PIPE  
PANEL FOR:  
588 TOEPFER  
584 TOEPFER  
580 TOEPFER



0709-282-1415-8  
THOMAS & ELIZABETH  
LEUKER  
588 TOEPFER AVE

0709-282-1416-6 NANCY  
ROBINSON  
584 TOEPFER AVE

0709-282-1417-4  
NATHAN  
STEFFENHAGEN  
580 TOEPFER AVE

0709-282-1418-2  
MICHAEL FRIEDLANDER  
576 TOEPFER AVE

0709-282-1419-0  
ROBERT GAVIGAN  
572 TOEPFER AVE

0709-282-1608-9  
BRADLEY MOORE &  
KATHERINE LONG  
591 TOEPFER AVE

0709-282-1607-1  
RON GOPAL &  
ANTHONY KESHENA  
585 TOEPFER AVE

0709-282-1606-3  
ANGELA RAMIREZ  
579 TOEPFER AVE

0709-282-1605-5  
BRENT DARLEY & DANNA  
RESOP  
575 TOEPFER AVE

WANNIE MCKERSIE  
3919 FERN CT

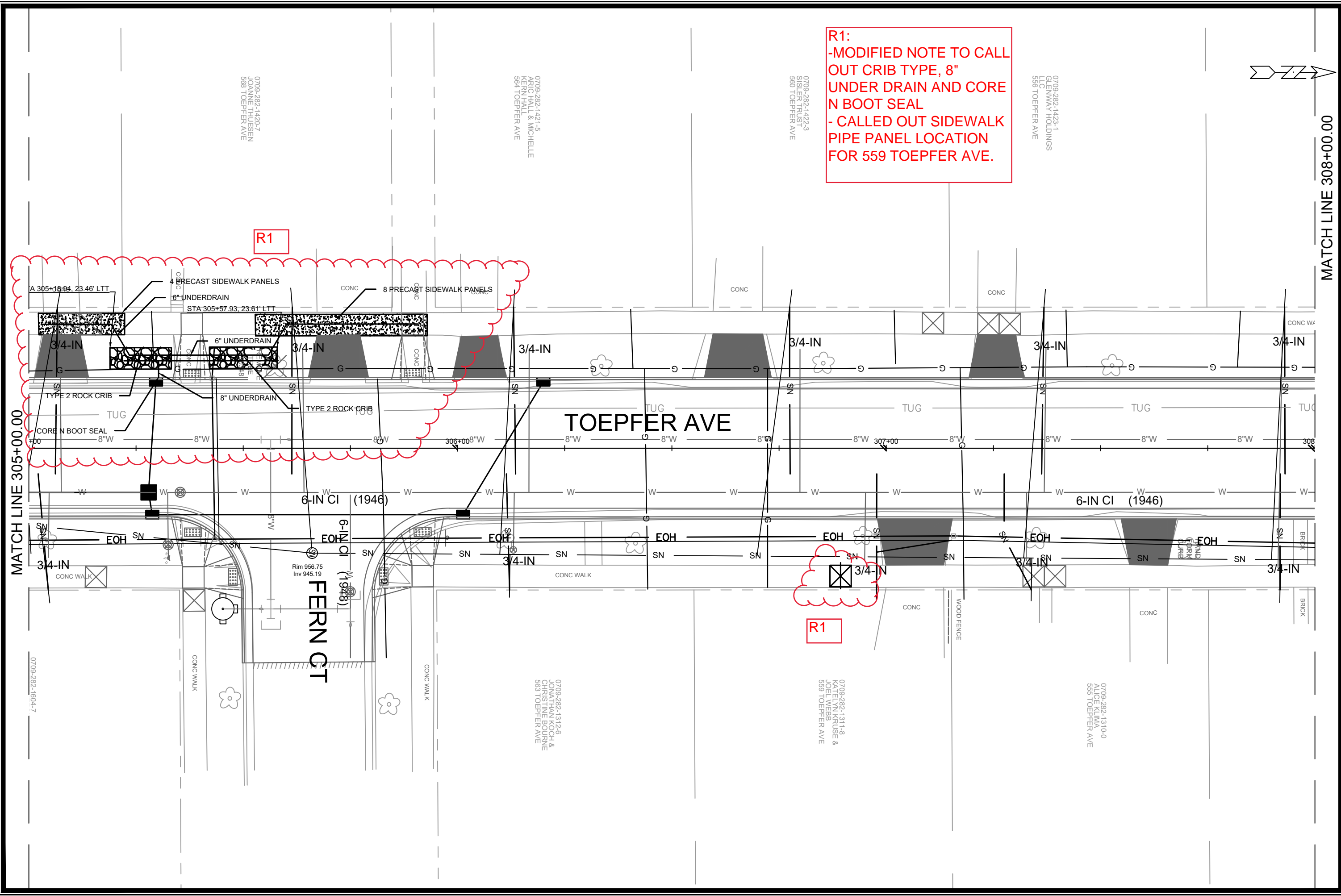
MARK	REVISION	DATE	BY

11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
TOEPFER  
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11744  
GI-7



**R1:**  
 -MODIFIED NOTE TO CALL OUT CRIB TYPE, 8" UNDER DRAIN AND CORE N BOOT SEAL  
 - CALLED OUT SIDEWALK PIPE PANEL LOCATION FOR 559 TOEPFER AVE.

0709-282-1420-7  
 JOANNE THISEN  
 588 TOEPFER AVE

0709-282-1421-5  
 ARIC HALL & MICHELLE  
 KERN HALL  
 564 TOEPFER AVE

0709-282-1422-3  
 SISLER TRUST  
 560 TOEPFER AVE

0709-282-1423-1  
 GLENWAY HOLDINGS  
 LLC  
 556 TOEPFER AVE

0709-282-1312-6  
 JONATHAN KOCH &  
 CHRISTINE BOURNE  
 563 TOEPFER AVE

0709-282-1311-8  
 KEVIN KRUSE &  
 JOEL WEBER  
 559 TOEPFER AVE

0709-282-1310-0  
 ALICE KLIMA  
 559 TOEPFER AVE

MATCH LINE 305+00.00

MATCH LINE 308+00.00

MARK	REVISION	DATE	BY
11744	11744	11/14/20	11744

11744  
 MADISON, WI

CONTRACT NO: 8306

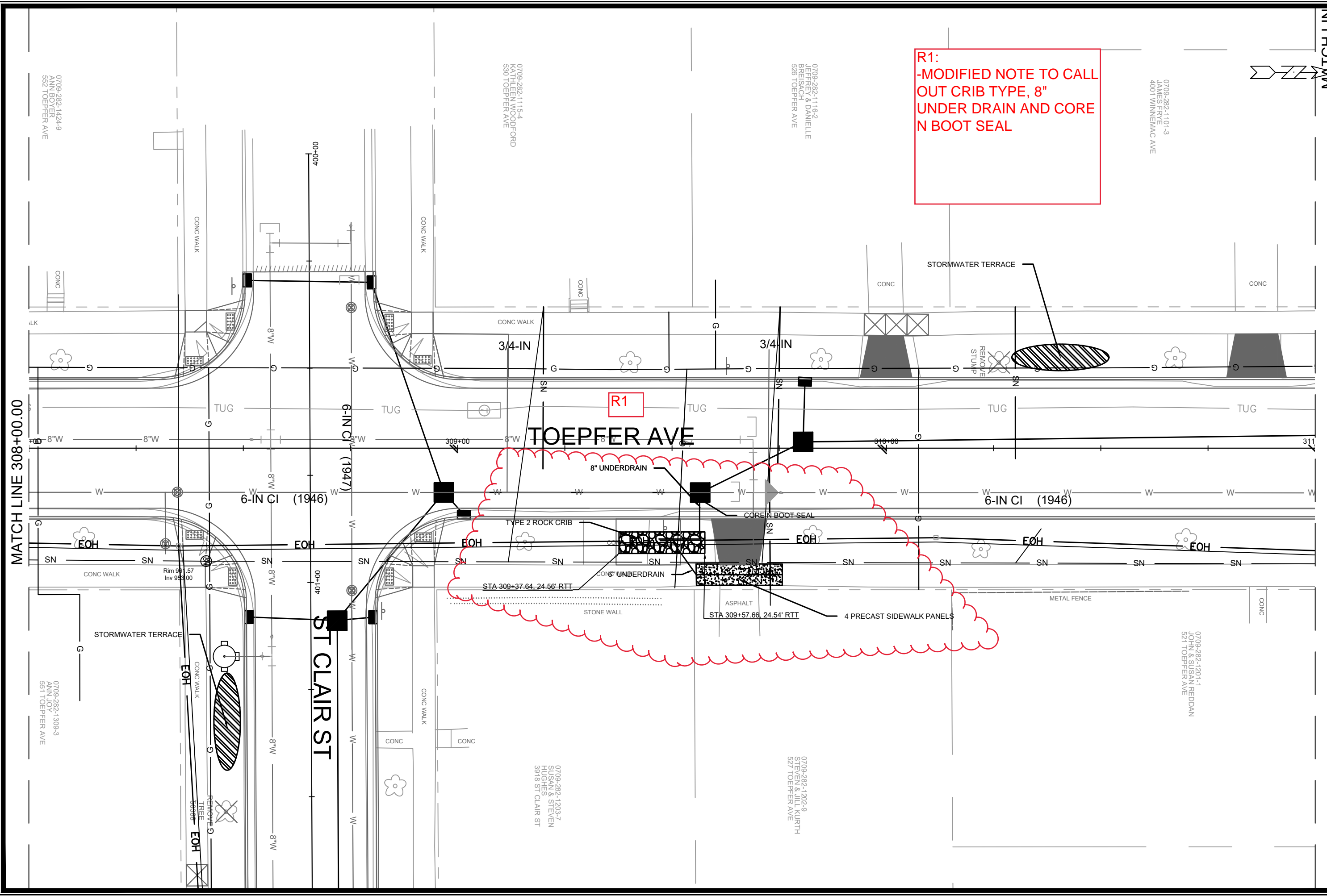
DETAILS - GREEN INFRASTRUCTURE  
 TOEPFER



11744  
 GI-8

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**R1:**  
 -MODIFIED NOTE TO CALL  
 OUT CRIB TYPE, 8"  
 UNDER DRAIN AND CORE  
 N BOOT SEAL

MATCH LINE

MATCH LINE 308+00.00

MARK	REVISION	DATE	BY
11744	11744	11/24/20	GI-9

11744  
 MADISON, WI  
 CONTRACT NO: 8306

DETAILS - GREEN INFRASTRUCTURE  
 TOEPFER



11744  
 GI-9

0709-282-1424-9  
 ANN BOYER  
 552 TOEPFER AVE

0709-282-1115-4  
 KATHLEEN WOODFORD  
 530 TOEPFER AVE

0709-282-1116-2  
 JEFFREY & DANIELLE  
 BREISACH  
 526 TOEPFER AVE

0709-282-1101-3  
 JAMES FRYE  
 4001 WINNEMAC AVE

0709-282-1309-3  
 ANN JOY  
 551 TOEPFER AVE

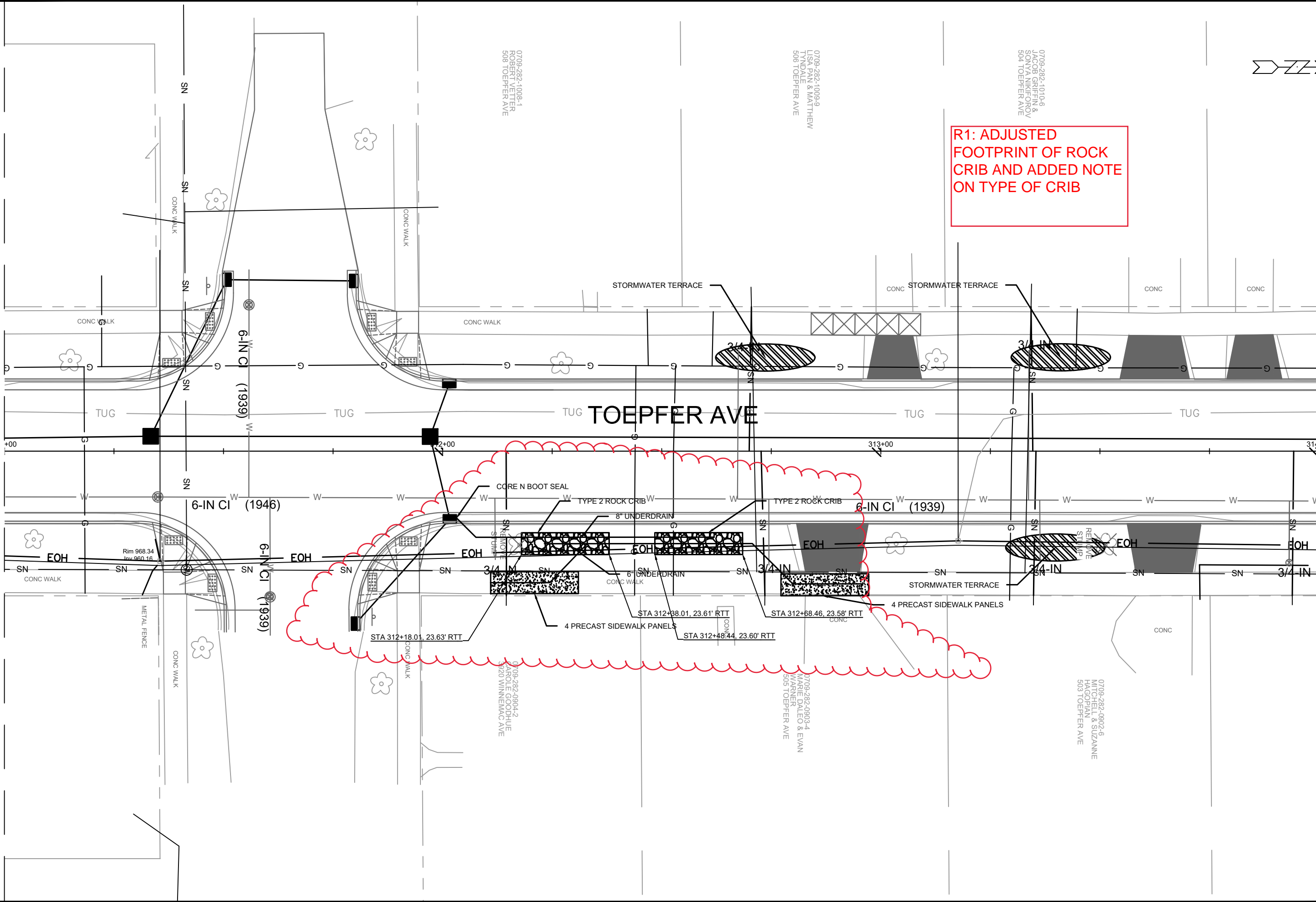
0709-282-1203-7  
 SUSAN & STEVEN  
 HUGHES  
 3918 ST CLAIR ST

0709-282-1202-9  
 STEVEN & JILL KURTH  
 527 TOEPFER AVE

0709-282-1201-1  
 JOHN & SUSAN REDDAN  
 521 TOEPFER AVE

MATCH LINE 311+00.00

MATCH LINE



**R1: ADJUSTED  
FOOTPRINT OF ROCK  
CRIB AND ADDED NOTE  
ON TYPE OF CRIB**

0709-282-1008-1  
ROBERT VETTER  
506 TOEPFER AVE

0709-282-1009-9  
LISA PAN & MATTHEW  
TYNDALE  
506 TOEPFER AVE

0709-282-1010-6  
JACOB GRIFFIN &  
SONIA KRONAU  
504 TOEPFER AVE

0709-282-0904-2  
CAROLE GOODHUE  
3920 WINNEMAC AVE

0709-282-0903-4  
MARIE DALEO & EVAN  
WARNER  
505 TOEPFER AVE

0709-282-0902-6  
MITCHELL & SUZANNE  
HAGopian  
503 TOEPFER AVE

MARK	REVISION	DATE	BY
11744	11744	4/20/2020 11:42 AM	GI-10

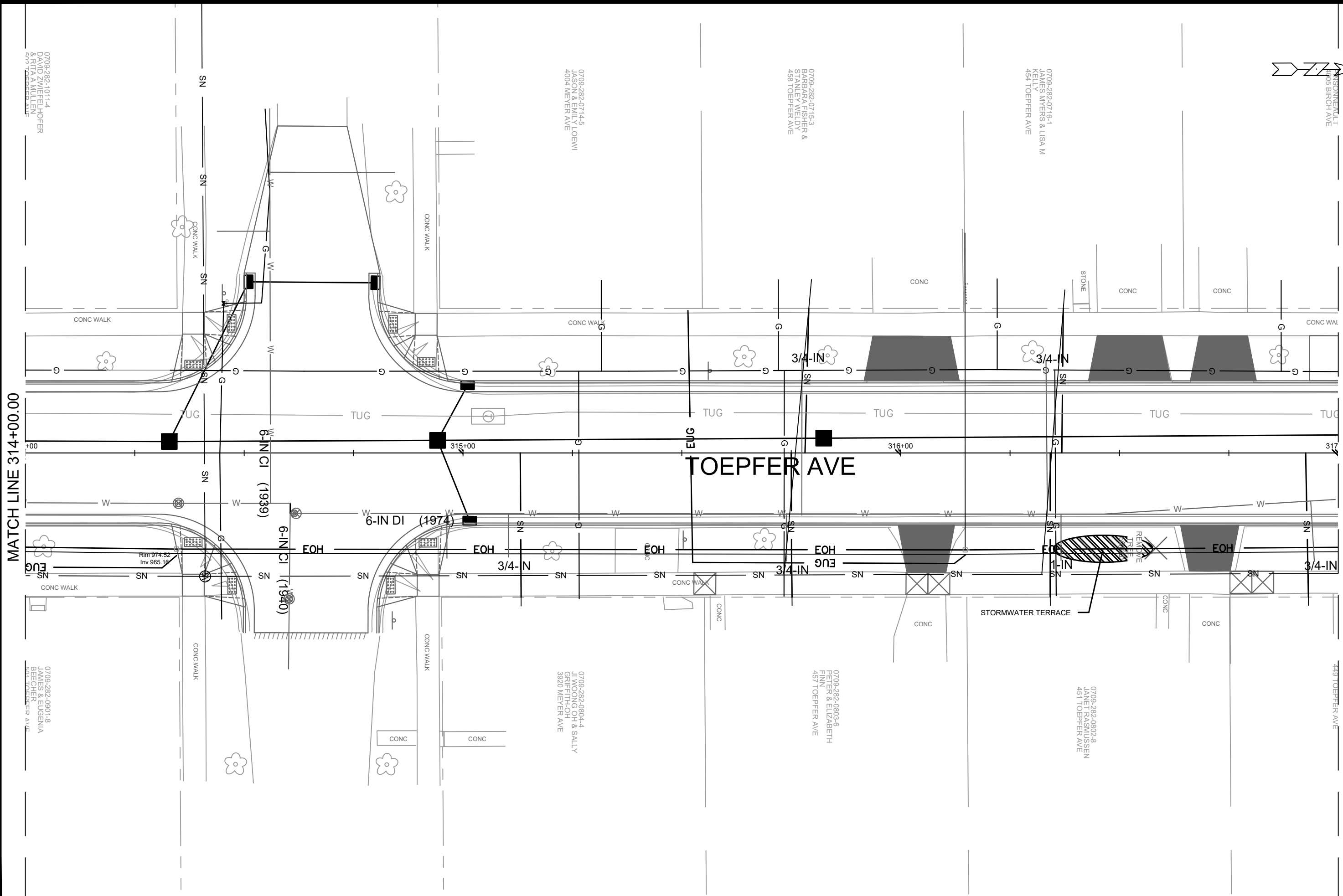
11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
TOEPFER



11744  
GI-10

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MATCH LINE 314+00.00

MATCH LINE

0709-282-10114-4  
DAVID ZWIEFELHOFER  
& RITA A MULLEN  
SNV TOEPFER AVE

0709-282-0714-5  
JASON & EMILY LOEWI  
4004 MEYER AVE

0709-282-0715-3  
BARBARA FISHER &  
STANLEY WELDY  
458 TOEPFER AVE

0709-282-0716-1  
JAMES MYERS & LISA M  
KELLY  
454 TOEPFER AVE

0709-282-0901-8  
JAMES & EUGENIA  
BEECHER  
SNV TOEPFER AVE

0709-282-0804-4  
JI WOON G OH & SALLY  
GRIFITH OH  
3920 MEYER AVE

0709-282-0803-6  
PETER & ELIZABETH  
FINN  
457 TOEPFER AVE

0709-282-0802-8  
JANET ASHLEY  
451 TOEPFER AVE

MARK	REVISION	DATE	BY

Scale: #####  
 Designed By: ### 11744  
 Date: 4/20/2020 11:42 AM  
 Scale: #####  
 11744  
 GI-11

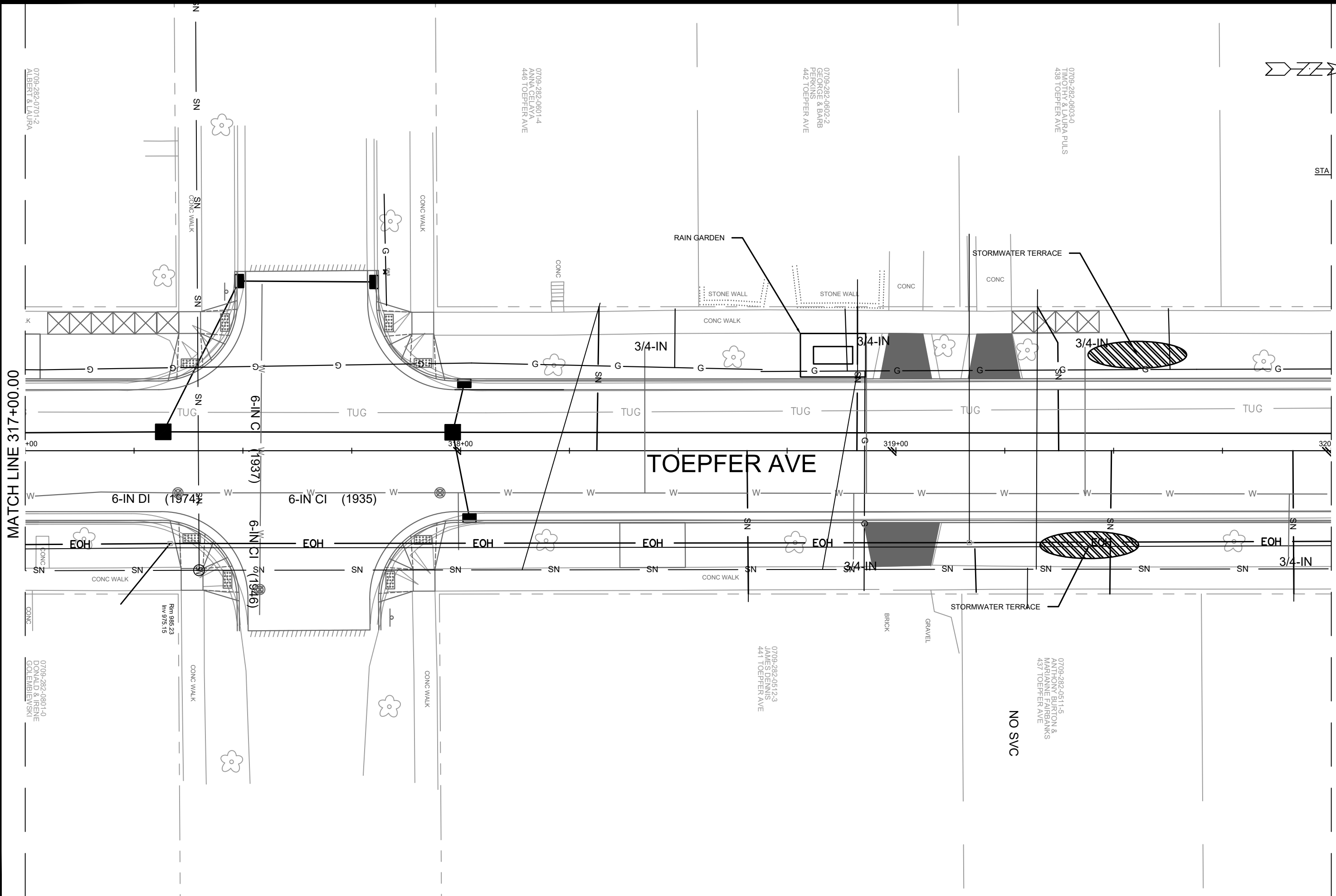
11744  
 MADISON, WI  
 CONTRACT NO: 8306

DETAILS - GREEN INFRASTRUCTURE  
 TOEPFER



11744  
 GI-11

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0709-282-0701-2  
ALBERT & LAURA

0709-282-0601-4  
ANNA CELAYA  
448 TOEPFER AVE

0709-282-0602-2  
GEORGE & BARB  
PERKINS  
442 TOEPFER AVE

0709-282-0603-0  
TIMOTHY & LAURA  
PULIS  
438 TOEPFER AVE

0709-282-0801-0  
DONALD & RENEE  
GOLEMBIEWSKI

Rim 885.23  
Inv 975.15

0709-282-0512-3  
JAMES DENNIS  
441 TOEPFER AVE

0709-282-0511-5  
ANTHONY BURTON &  
MARIANNE FAIRBANKS  
437 TOEPFER AVE

NO SVC

MATCH LINE

STA

MATCH LINE 317+00.00

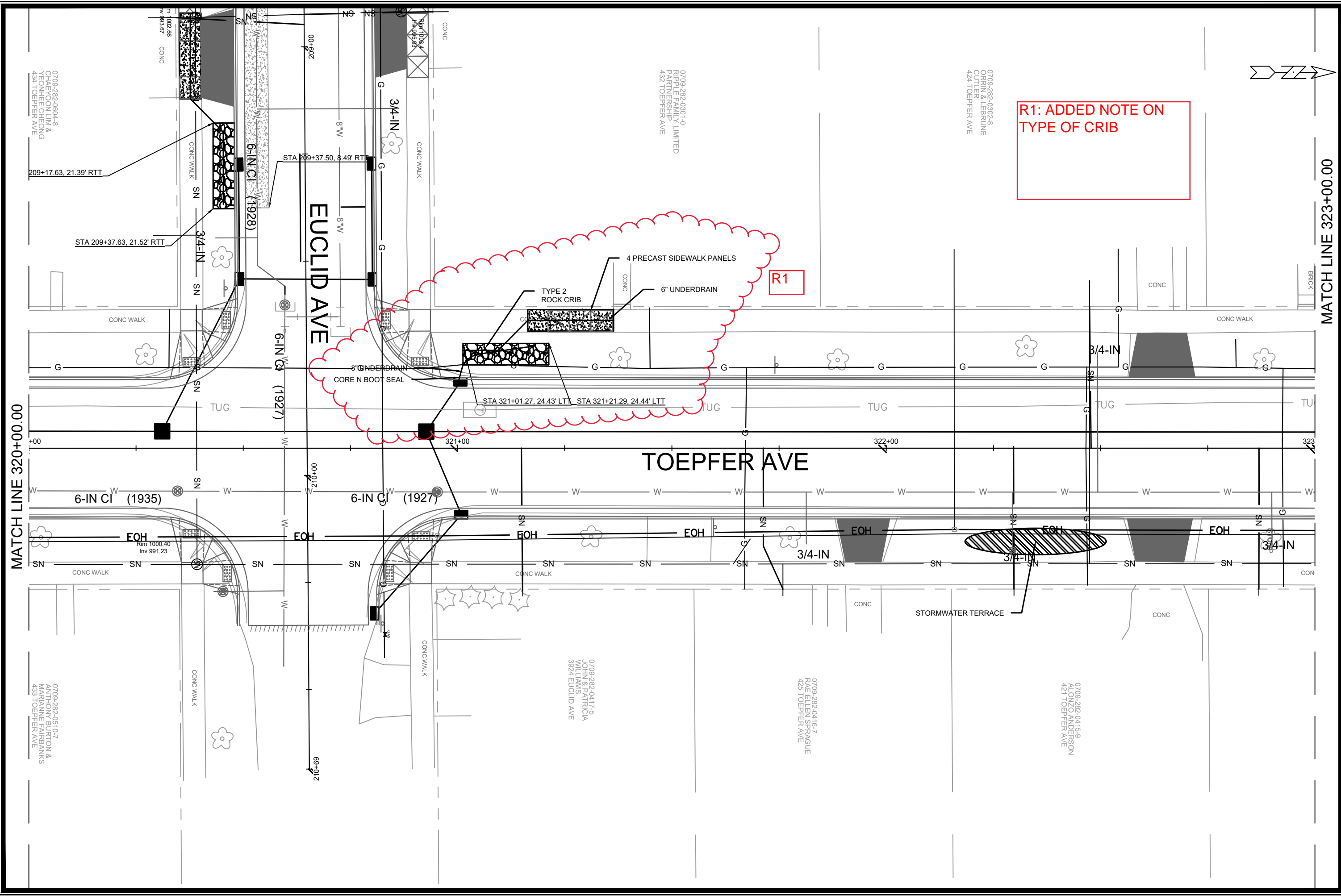
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11744	11744	4/20/2020 11:42 AM	11744
11744	11744	11/17/2019	11744

11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
TOEPFER  
M:\DESIGN\Projects\11744\C3D\Design\PipeNetworks\11744\_StormGI\_Update.dwg



11744  
GI-12



R1: ADDED NOTE ON  
TYPE OF CRIB

R1

MATCH LINE 323+00.00

MATCH LINE 320+00.00

MARK	REVISION	DATE	BY
11744	11744	11/24/20	11744
Designed By: ##	Date: 4/20/2020 11:42 AM	Scale: #####	GI-13

11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
TOEPFER



11744  
GI-13

0709-282-0604-8  
CHAEYOUN LIM &  
YEONHWE CHEONG  
434 TOEPFER AVE

0709-282-0301-0  
RIPLEY FAMILY LIMITED  
PARTNERSHIP  
432 TOEPFER AVE

0709-282-0302-8  
ORRIN & LEBRUINE  
CUTLER  
424 TOEPFER AVE

0709-282-0417-5  
JOHN & PATRICIA  
WILLIAMS  
3924 EUCLID AVE

0709-282-0416-7  
RAE ELLEN SPRAGUE  
425 TOEPFER AVE

0709-282-0415-9  
ALONZO ANDERSON  
421 TOEPFER AVE

0709-282-0510-7  
ANTHONY BURTON &  
MARIANNE FAIRBANKS  
433 TOEPFER AVE

Rim 1000.40  
Inv 991.23

6-IN CI (1935)

6-IN CI (1927)

6-IN CI (1927)

STA 321+01.27, 24.43' LTT  
STA 321+21.29, 24.44' LTT

STA 209+37.50, 8.49' RTT

STA 209+37.63, 21.52' RTT

6-IN CI (1928)

3/4-IN

3/4-IN

3/4-IN

3/4-IN

3/4-IN

3/4-IN

EUCLID AVE

TOEPFER AVE

TUG

TUG

TUG

TUG

TUG

EOH

EOH

EOH

EOH

EOH

EOH

88+01.2

00+01.2

00+60.2

8' W

8' W

8' W

8' W

8' W

8' W

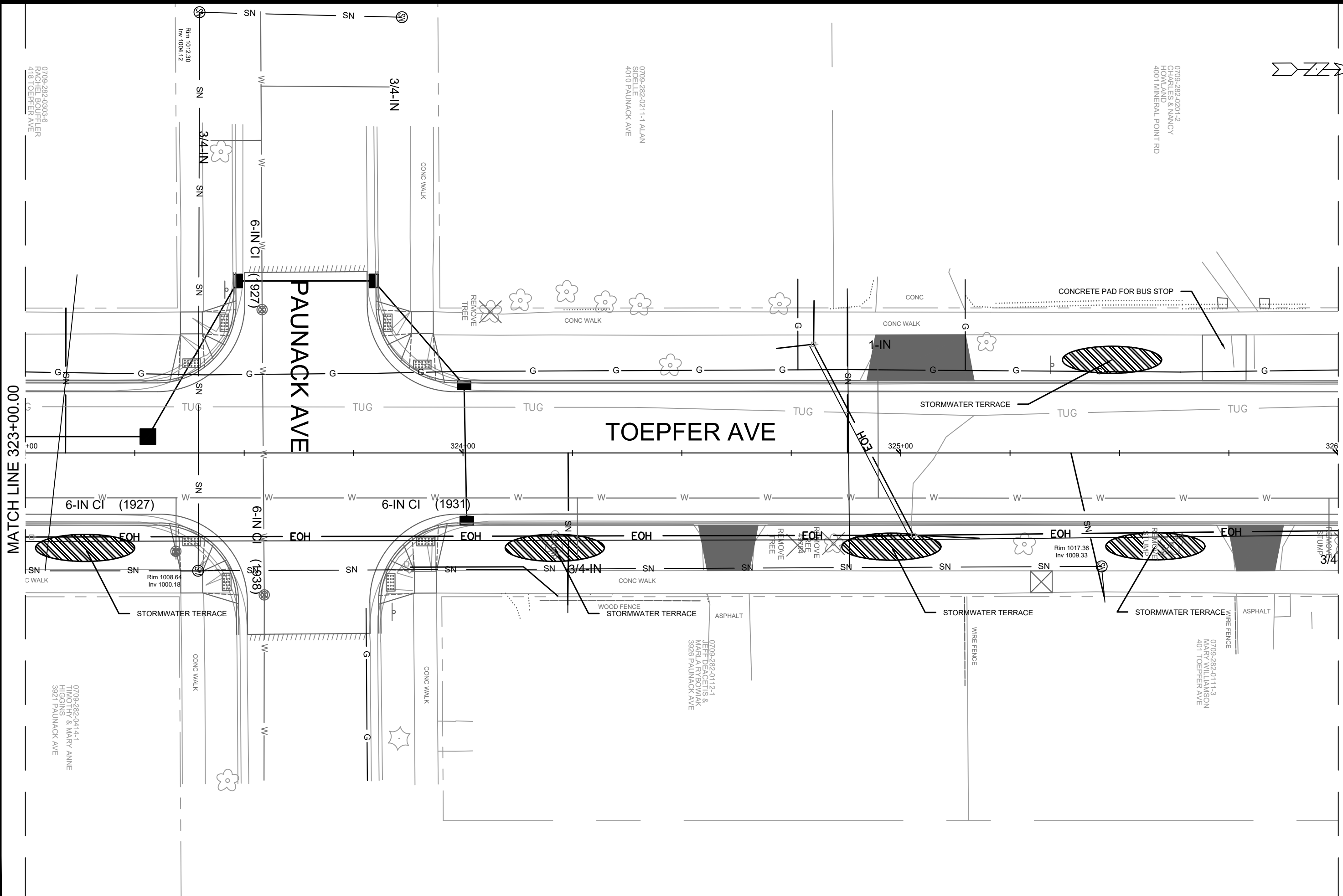
8' W

8' W

8' W

8' W





MATCH LINE 323+00.00

MATCH LINE 326+00.00

0709-282-0303-6  
RACHEL BOUFFLER  
418 TOEPFER AVE

0709-282-0211-1 ALAN  
SIDELLE  
4010 PAUNACK AVE

0709-282-0201-2  
HOMER & NANCY  
4001 MINERAL POINT RD

0709-282-0414-1  
TIMOTHY & MARY ANNE  
HIGGINS  
3921 PAUNACK AVE

0709-282-0112-1  
JEFF DEACETTIS &  
MARLA RYBOWIAK  
3926 PAUNACK AVE

0709-282-0111-3  
MARY WILLIAMSON  
401 TOEPFER AVE

MARK	REVISION	DATE	BY

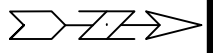
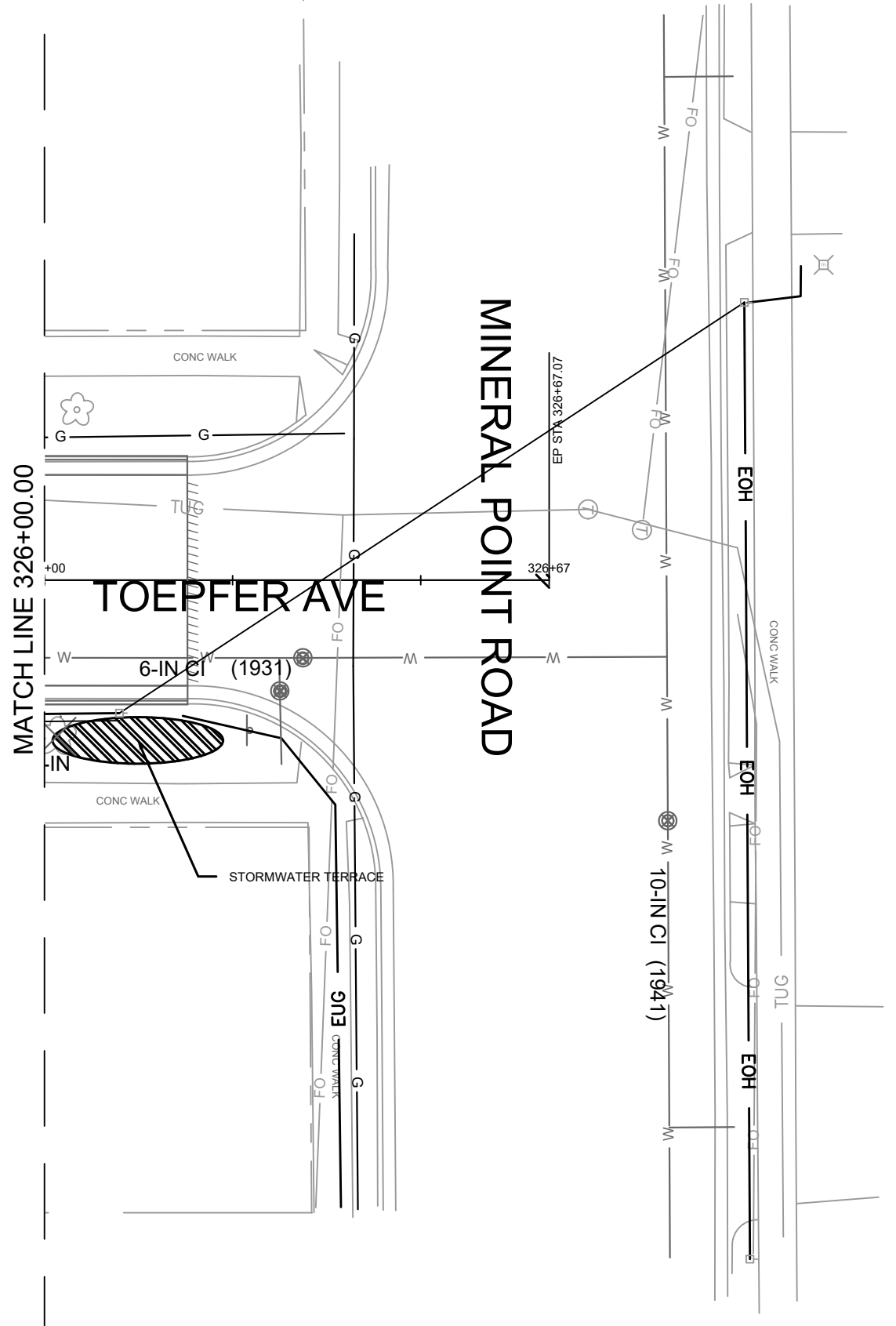
11744  
MADISON, WI  
8306  
CONTRACT NO:


DETAILS - GREEN INFRASTRUCTURE  
TOEPFER  
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11744  
GI-14

Scale: #####  
Designed By: 11744  
Date: 4/20/2020 11:42 AM



	11744	11744
	GI-15	MADISON, WI
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MARK Designed By: ## 11744		REVISION Date: 4/20/2020 11:42 AM Scale: #####
DATE BY G-15		11744 8306 G-15

**R2:**  
 1) 3914 ST CLAIR STORMWATER TERRACE CHANGED TO TYPE 1 ROCK CRIB  
 2) 3913 TYPE 1 ROCK CRIBE CHANGED TO STORMWATER TERRACE  
 3) 3909 ST CLAIR STORMWATER TERRACE ADDED  
 4) PERVIOUS CONCRETE MOVED TO NORTH SIDE OF STREET SEE NEW DETAIL SHEET GI-27

0709-282-1204-5  
 PATRICIA HUYETT  
 3914 ST CLAIR ST

0709-282-1205-3  
 TIMOTHY HACKER &  
 CAROL CHEN  
 3910 ST CLAIR ST

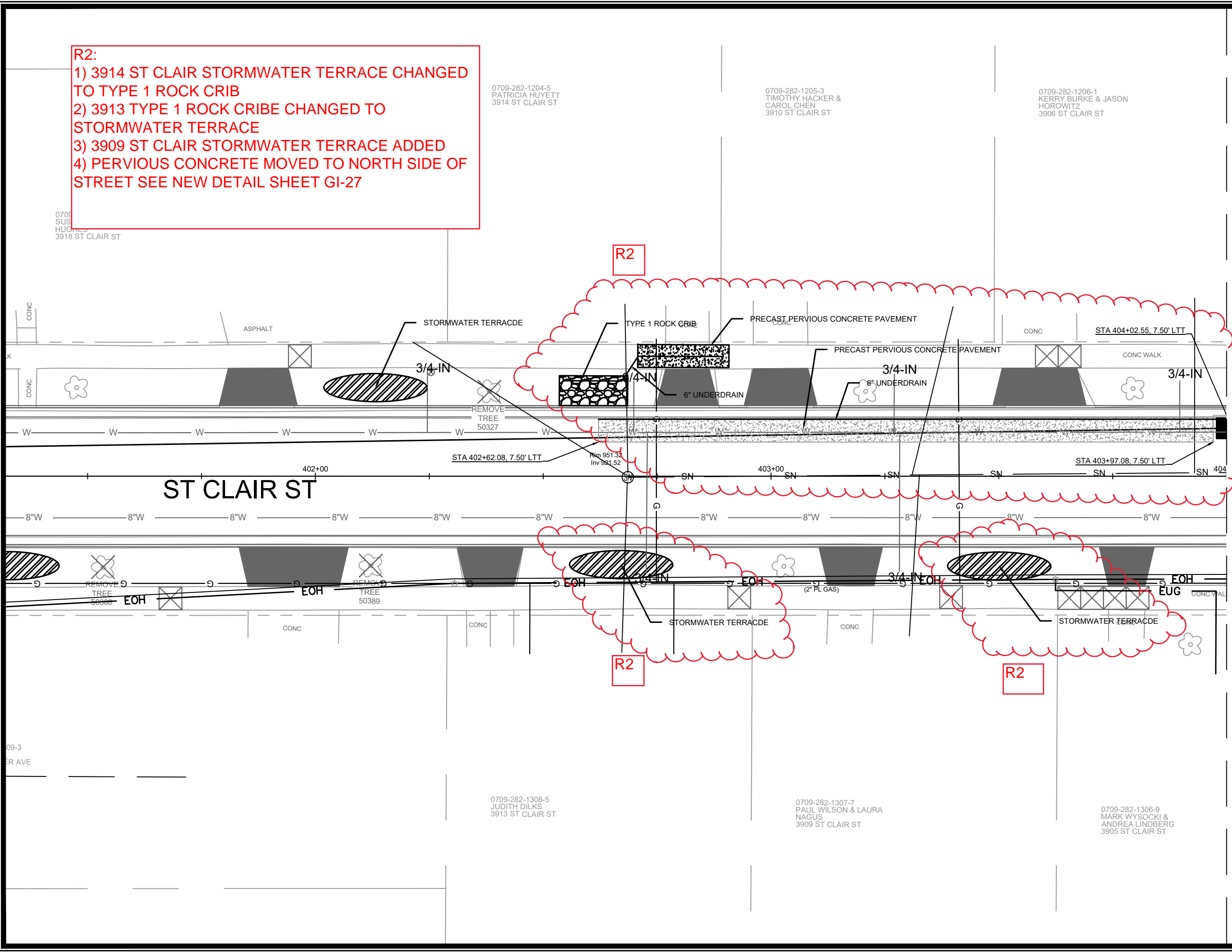
0709-282-1206-1  
 KERRY BURKE & JASON  
 HOROWITZ  
 3906 ST CLAIR ST

0709-282-1207-1  
 SUSAN HUGGINS  
 3918 ST CLAIR ST

0709-282-1308-5  
 JUDITH DILKS  
 3913 ST CLAIR ST

0709-282-1307-7  
 PAUL WILSON & LAURA  
 NAGUS  
 3909 ST CLAIR ST

0709-282-1306-9  
 MARK WYSOCKI &  
 ANDREA LINDBERG  
 3905 ST CLAIR ST



MATCH LINE 404+00.00



MARK	REVISION	DATE	BY
11744	11744	5/26/2020 12:49 PM	GI-16

11744  
 MADISON, WI  
 8306  
 CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
 STCLAIR



11744  
 GI-16

M:\DESIGN\Projects\11744\IC3D\Design\PipeNetworks\11744\_StormGI\_Update.dwg

0709-282-1207-9  
ROLLAND BARSNESS  
3902 ST CLAIR ST

0709-282-1208-7  
RICHARD & JENNIFER  
TOWNSEND  
3826 ST CLAIR ST

0709-282-1209-5  
DIANE CARLSTROM  
3822 ST CLAIR ST

0709-282-1210-2  
JAMES & AMY WALDEN  
3818 ST CLAIR ST

0709-282-1211-0  
THOMAS JEFFERSON &  
GAIL ZAUCHA  
3814 ST CLAIR ST

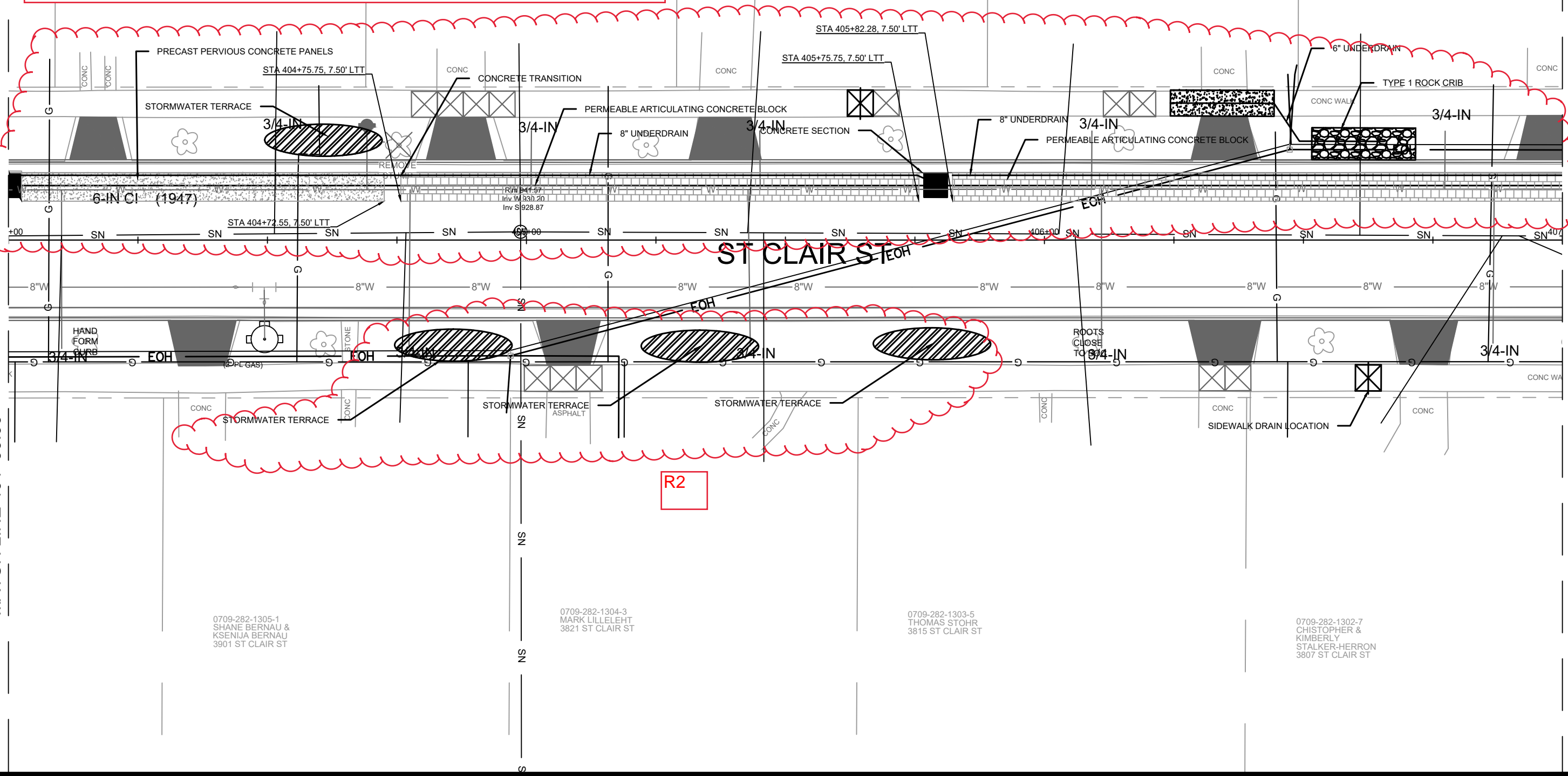
- R2
- 1) PERVIOUS CONCRETE AND PERVIOUS PAVE PARKING LANE MOVED TO NORTH SIDE OF STREET
  - 2) STORMWATER TERRACE REMOVED AT 3814 ST CLAIR
  - 3) STORMWATER TERRACE ADDED AT 3901,3821,3815 ST CLAIR
  - 4) TYPE 1 ROCK CRIB REMOVED FROM 3821 ST CLAIR
  - 5) TYPE 1 ROCK CRIB ADDED AT 3814/3810 ST CLAIR

R2

R2

MATCH LINE 404+00.00

MATCH LINE 407+00.00



MARK	REVISION	DATE	BY
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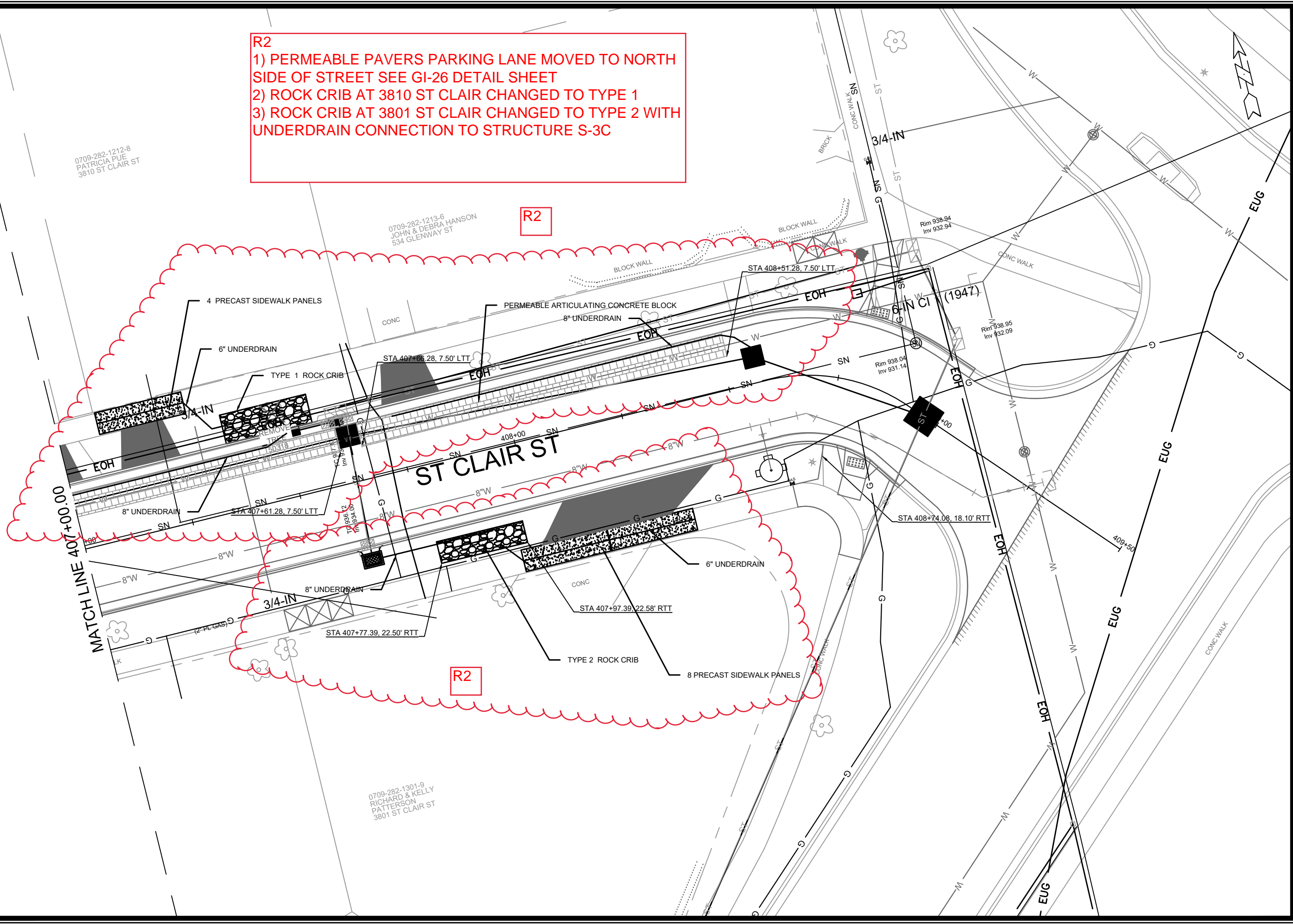
11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
ST CLAIR  
M:\DESIGN\Projects\11744\CSD\Design\PipeNetworks\11744\_StormGI\_Update.dwg



11744  
GI-17

**R2**  
 1) PERMEABLE PAVERS PARKING LANE MOVED TO NORTH SIDE OF STREET SEE GI-26 DETAIL SHEET  
 2) ROCK CRIB AT 3810 ST CLAIR CHANGED TO TYPE 1  
 3) ROCK CRIB AT 3801 ST CLAIR CHANGED TO TYPE 2 WITH UNDERDRAIN CONNECTION TO STRUCTURE S-3C



0709-282-1212-8  
 PATRICIA PUE  
 3810 ST CLAIR ST

0709-282-1213-6  
 JOHN & DEBRA HANSON  
 534 GLENWAY ST

0709-282-1301-9  
 RICHARD & KELLY  
 PATTERSON  
 3801 ST CLAIR ST

MARK	REVISION	DATE	BY
11744	11744	5/26/2020 12:50 PM	GI-18

11744  
 MADISON, WI  
 8306  
 CONTRACT NO:

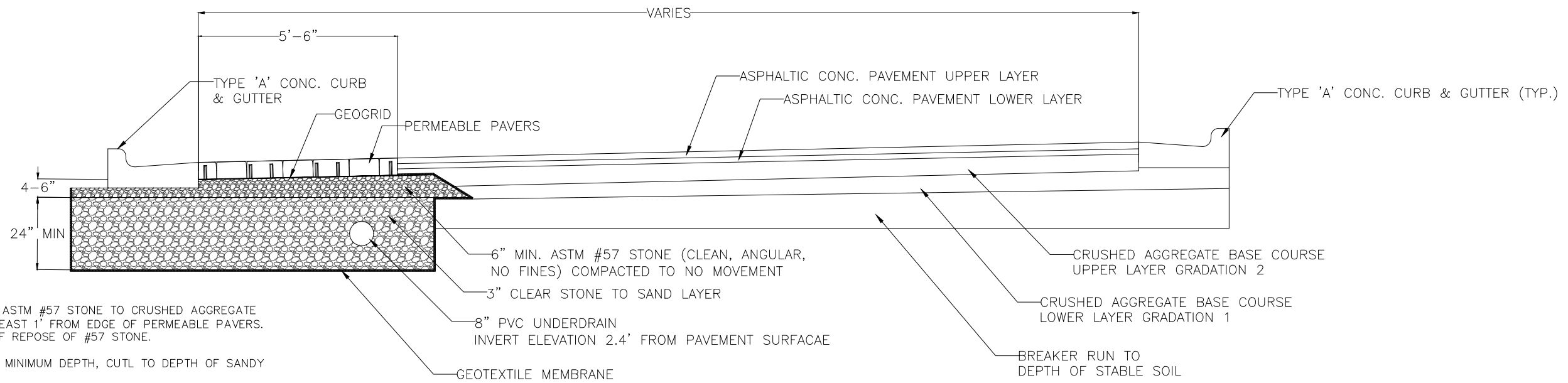
DETAILS - GREEN INFRASTRUCTURE  
 STCLAIR  
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11744  
 GI-18



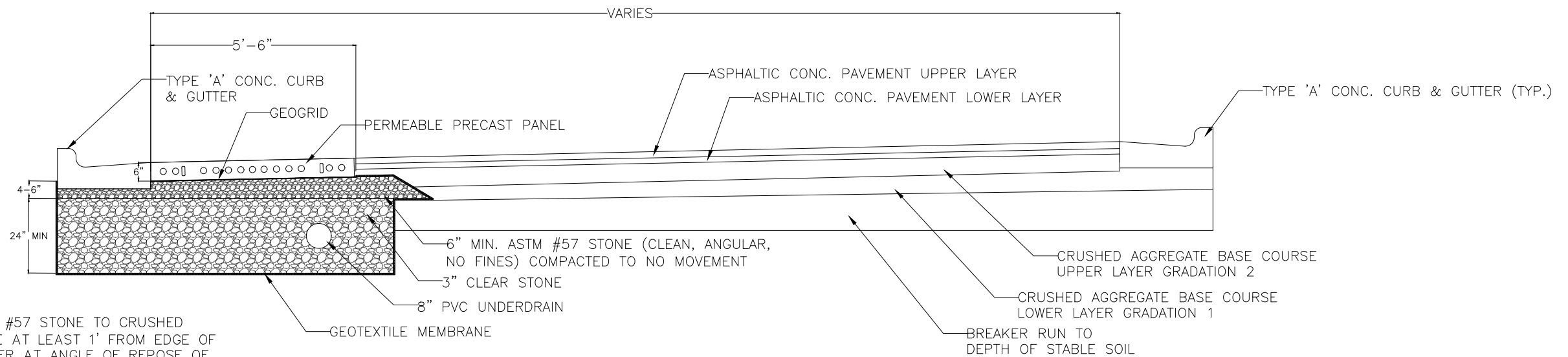
PERMEABLE PAVER SECTION



NOTES:

- TRANSITION FROM ASTM #57 STONE TO CRUSHED AGGREGATE BASE COURSE AT LEAST 1' FROM EDGE OF PERMEABLE PAVERS. TAPER AT ANGLE OF REPOSE OF #57 STONE.
- CLEAR STONE 24" MINIMUM DEPTH, CUT TO DEPTH OF SANDY LOAM SOIL
- GEOTEXTILE MEMBRANE INSTALLED AT DEPTH OF SANDY LOAM SOIL
- PERMEABLE ROAD BASE LAYERS COMPACTED TO NO MOVEMENT.

PERMEABLE PRECAST PANEL SECTION



NOTES:

- TRANSITION FROM ASTM #57 STONE TO CRUSHED AGGREGATE BASE COURSE AT LEAST 1' FROM EDGE OF PERMEABLE PAVERS. TAPER AT ANGLE OF REPOSE OF #57 STONE.
- CLEAR STONE 24" MINIMUM DEPTH, CUT TO DEPTH OF SANDY LOAM SOIL
- GEOTEXTILE MEMBRANE INSTALLED AT DEPTH OF SANDY LOAM SOIL
- PERMEABLE ROAD BASE LAYERS COMPACTED TO NO MOVEMENT.

MARK	REVISION	DATE	BY

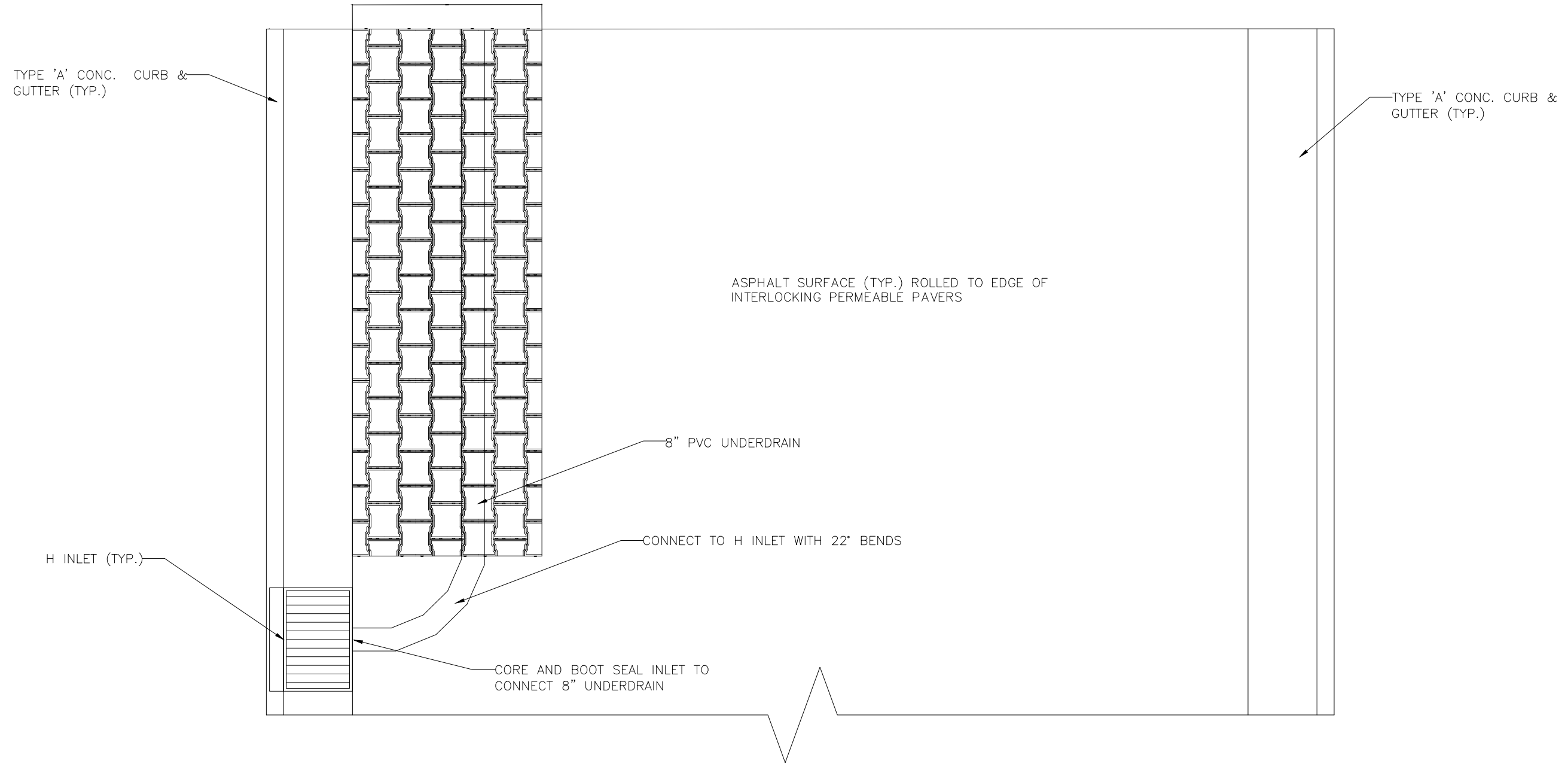
11744  
 MADISON, WI  
 CONTRACT NO: 8306

DETAILS - GREEN INFRASTRUCTURE  
 CONSTRUCTION SECTIONS  
 M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg



11744  
 GI-19

GI-19  
 Scale: 1" = 40'  
 Date: 4/20/2020 11:42 AM  
 Designed By: LAW



INTERLOCKING PERMEABLE PAVER PLAN DETAIL

MARK	REVISION	DATE	BY

Designed By: ###  
11744

Date: 4/20/2020 11:42 AM  
Scale: 1"=40'

GI-20

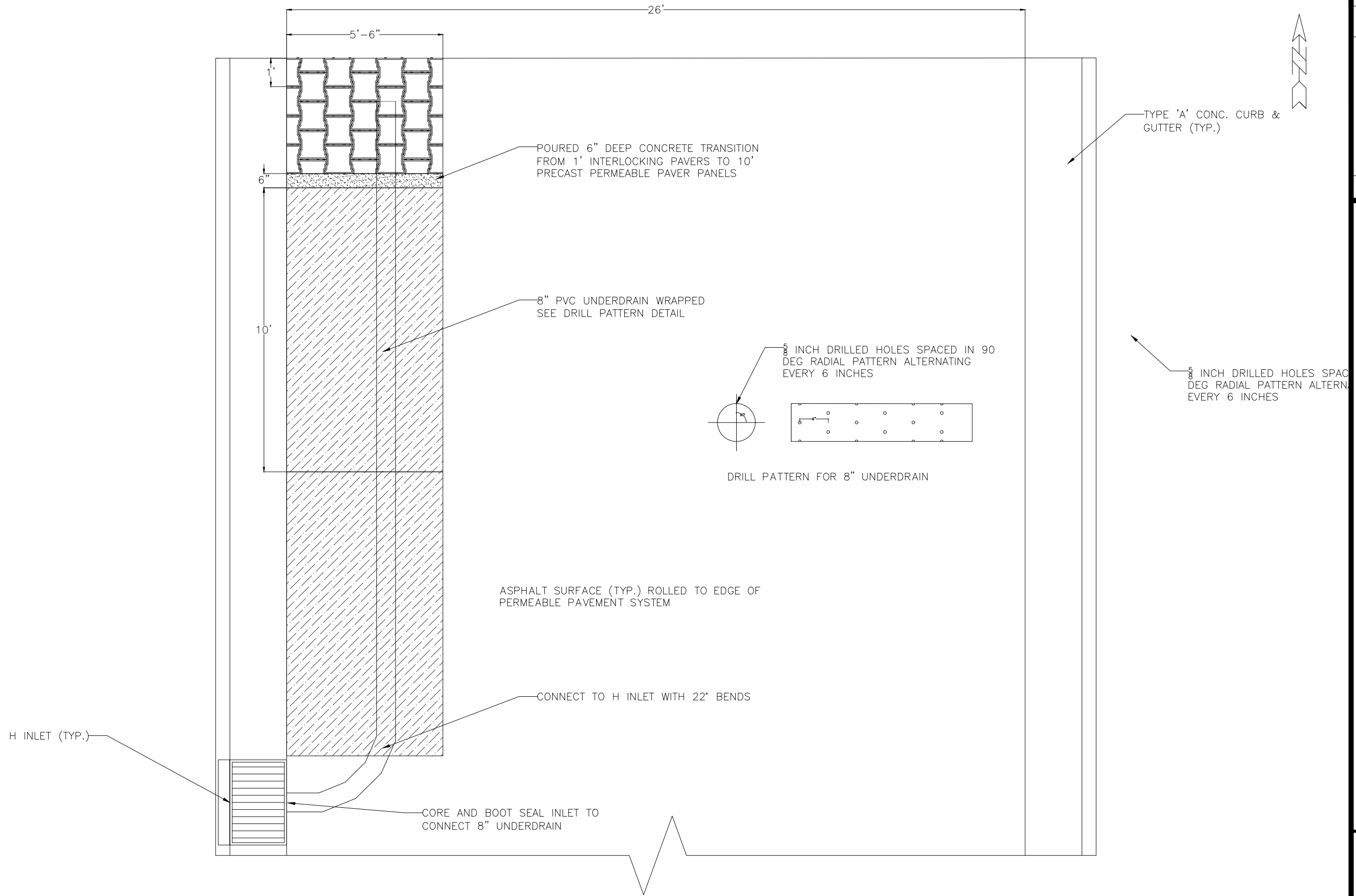
11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
INTERLOCKING PAVER PLAN

M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg



11744  
GI-20



SINGLE LANE INTERLOCKING PAVER  
TO PRECAST PANEL TRANSITION PLAN

MARK	REVISION	DATE	BY

11744  
MADISON, WI  
8306  
CONTRACT NO:

DETAILS - GREEN INFRASTRUCTURE  
PRECAST PANEL PLAN  
M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg



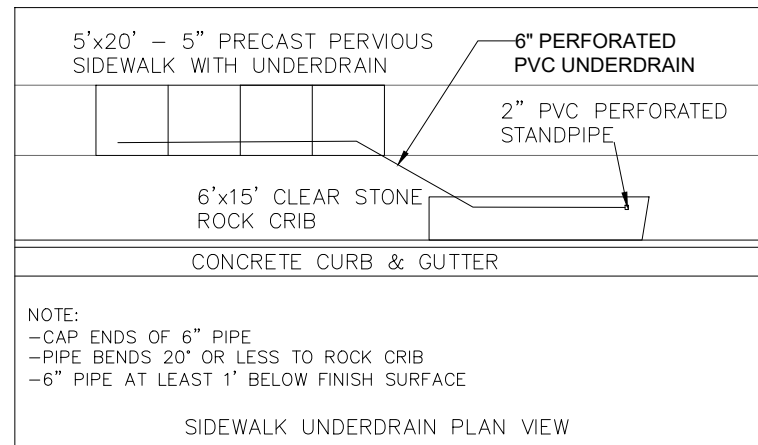
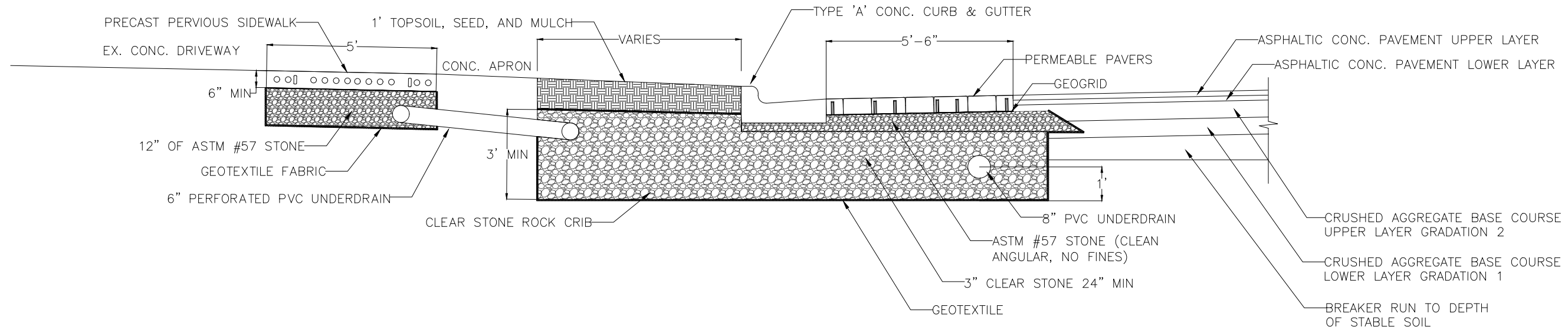
11744  
GI-21

Designed By: ###  
Date: 4/20/2020 11:43 AM  
Scale: #####  
GI-21

PERMEABLE PAVERS WITH ROCK CRIB CONNECTION

TYPE 1 ROCK CRIB

R1



NOTES:

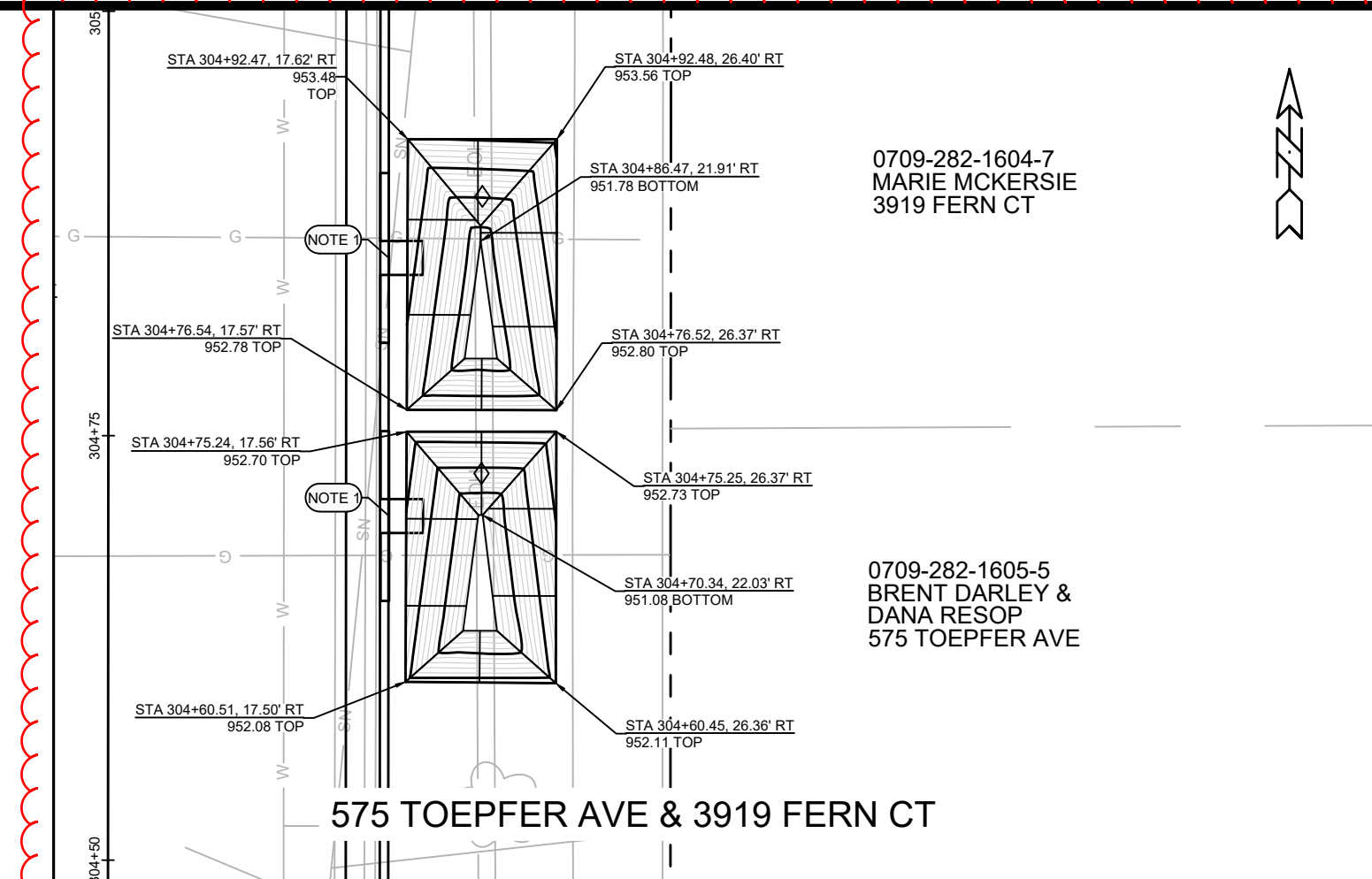
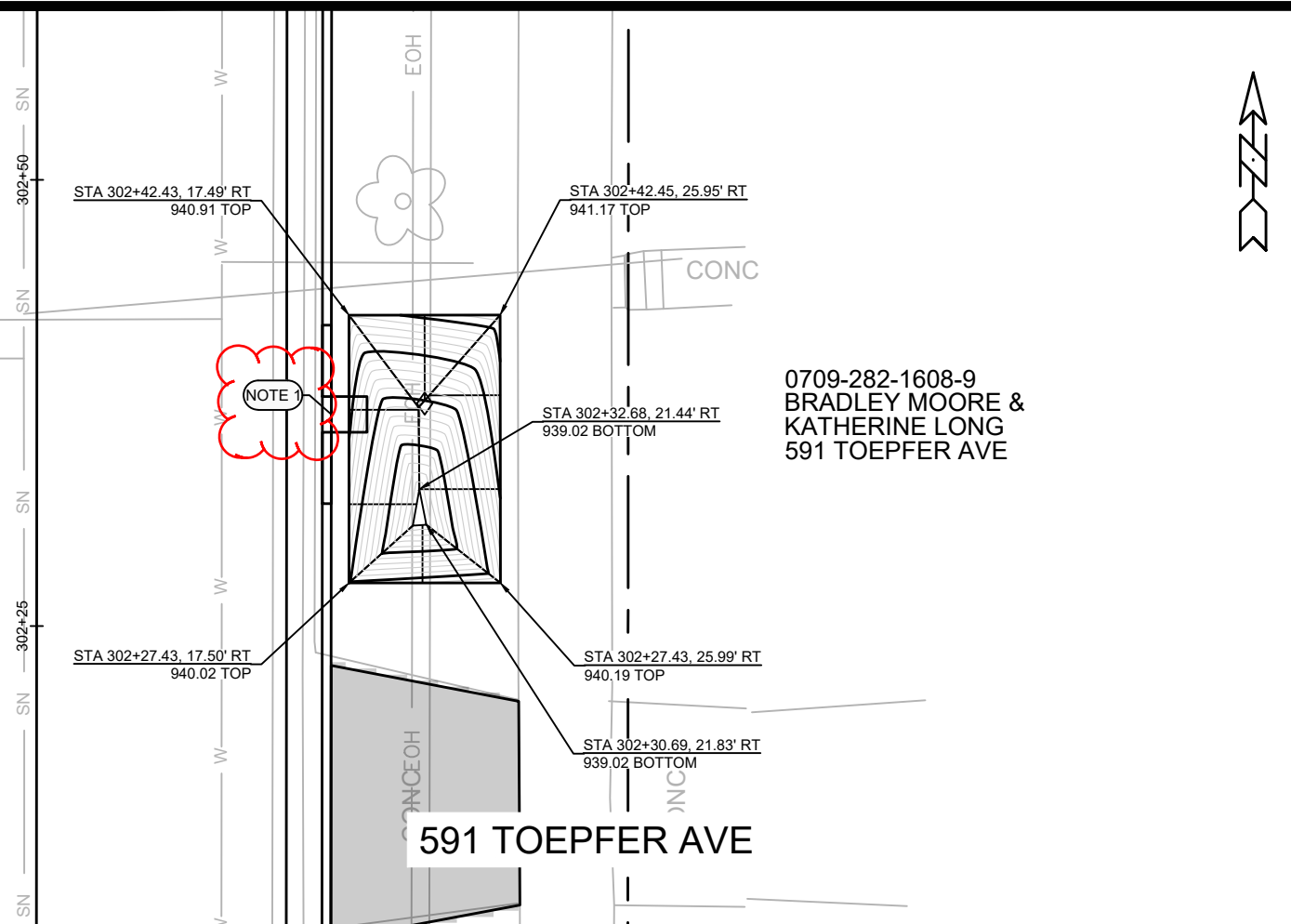
- TRANSITION FROM ASTM #57 STONE TO CRUSHED AGGREGATE BASE COURSE AT LEAST 1' FROM EDGE OF PERMEABLE PAVERS. TAPER AT ANGLE OF REPOSE OF #57 STONE.
- CLEAR STONE 24" MINIMUM DEPTH, FILL TO DEPTH OF SANDY LOAM SOIL
- GEOTEXTILE MEMBRANE INSTALLED AT DEPTH OF SANDY LOAM SOIL
- PERMEABLE ROAD BASE LAYERS COMPACTED TO NO MOVEMENT.
- ROCK CRIBS ADJACENT TO STORM STRUCTURES WILL HAVE AN 8" DRILLED UNDERDRAIN THAT IS CONNECTED TO THE STRUCTURE WITH A CORE N BOOT SEAL.

MARK	REVISION	DATE	BY
11744	11744	4/20/2020 11:43 AM	GI-22

11744  
 MADISON, WI  
 8306  
 CONTRACT NO:  
 M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg



11744  
 GI-22



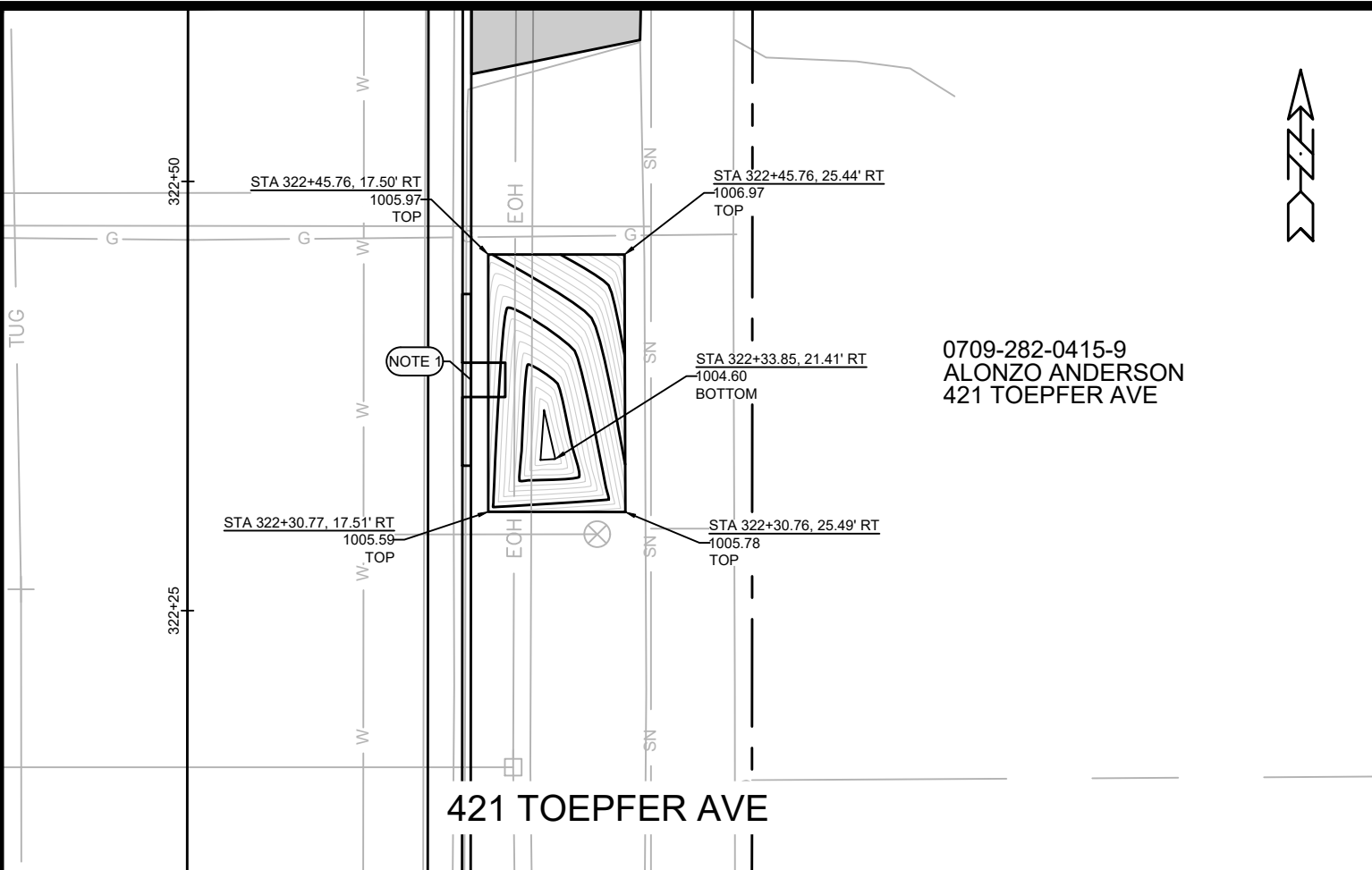
LEGEND  
 NOTE 1 2' X 2' CONCRETE FLUME, SEE SDD, "RAINGARDEN & BIO-RETENTION DETAIL"

MARK	REVISION	DATE	BY
11744	11744	7/21/2020	GI-23A

11744  
 MADISON, WI  
 8306  
 CONTRACT NO:  
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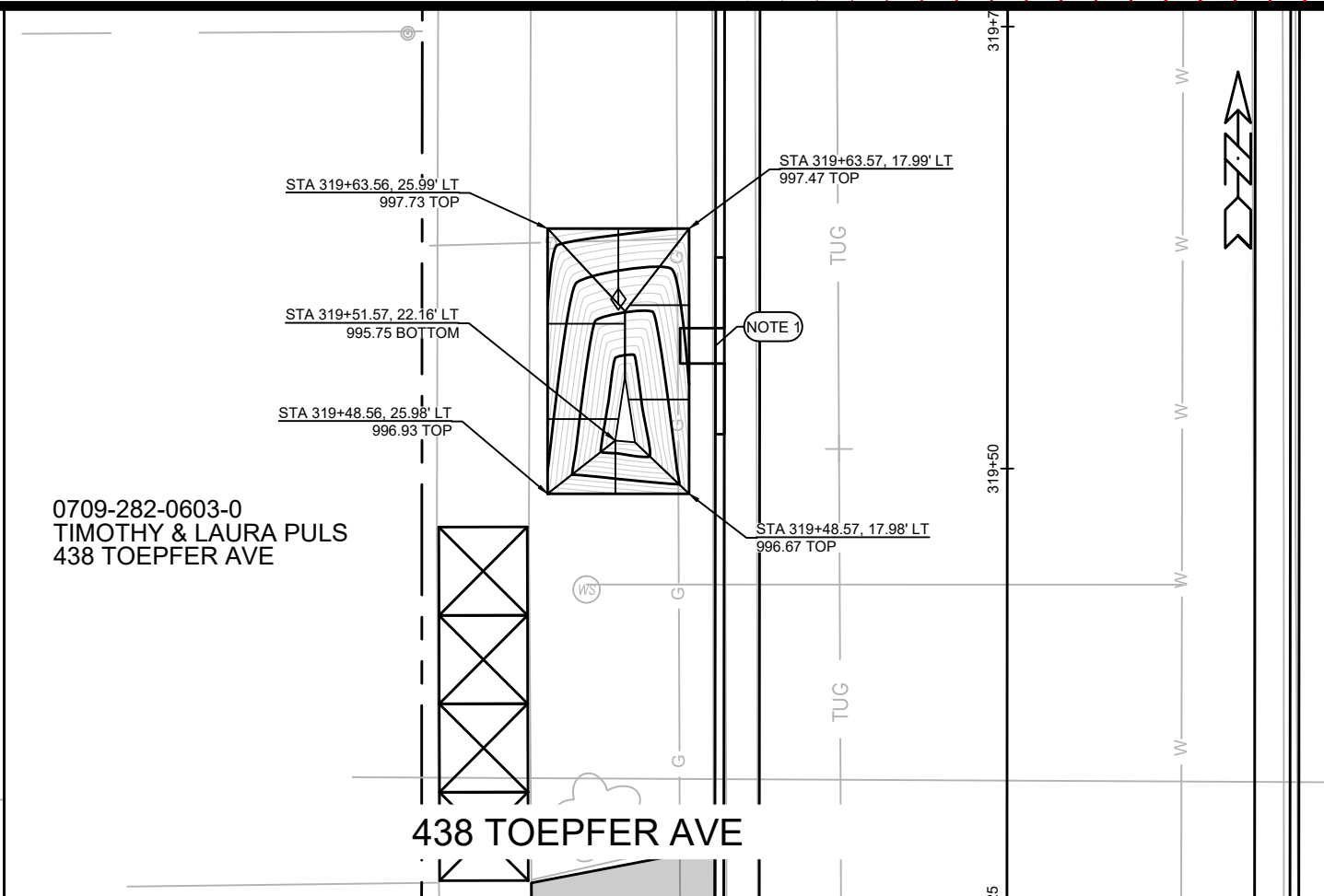
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 TERRACE RAIN GARDEN PLAN  
 CITY OF MADISON WISCONSIN  
 11744  
 GI-23A





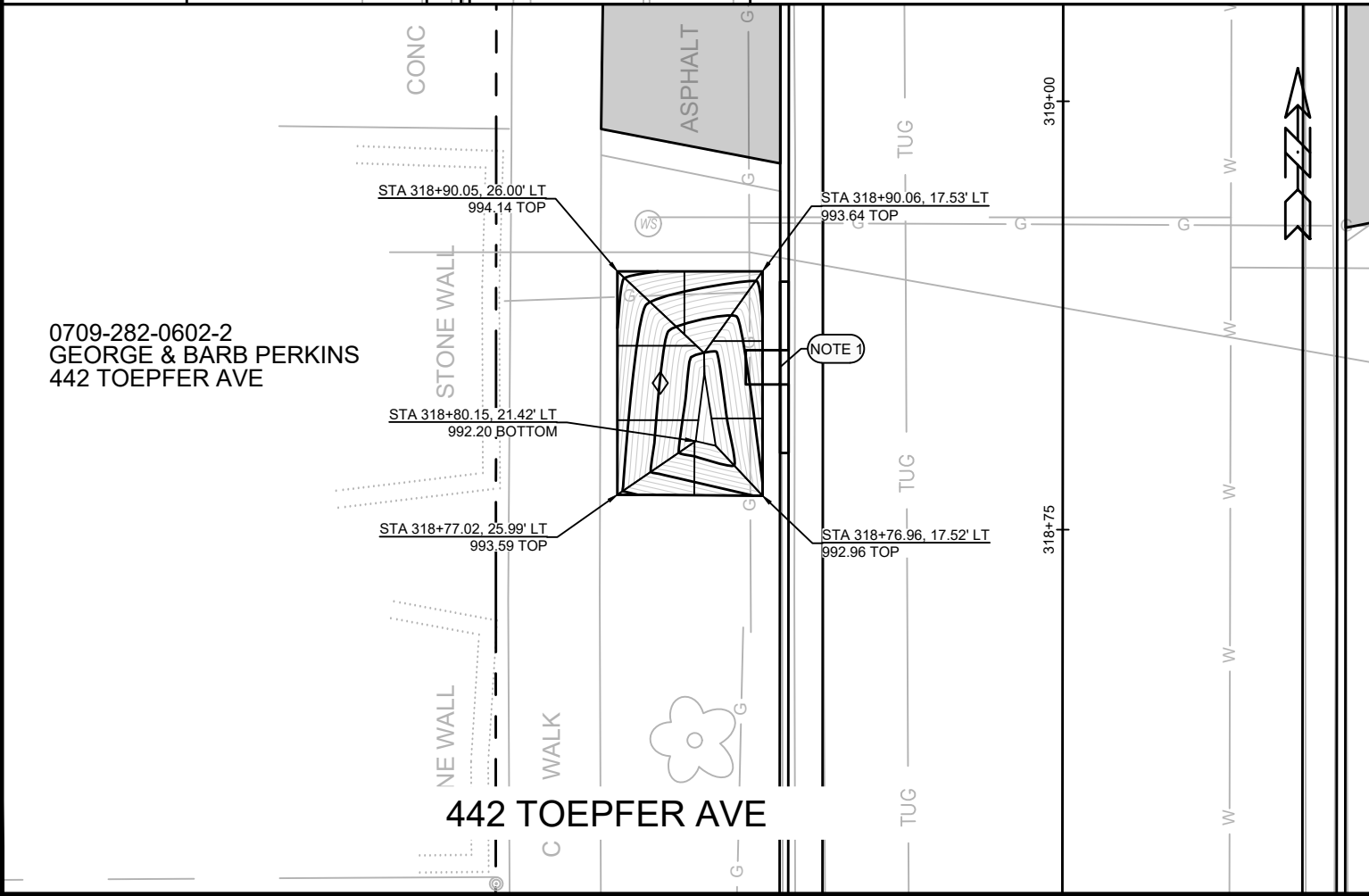
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ALONZO ANDERSON  
421 TOEPFER AVE

421 TOEPFER AVE



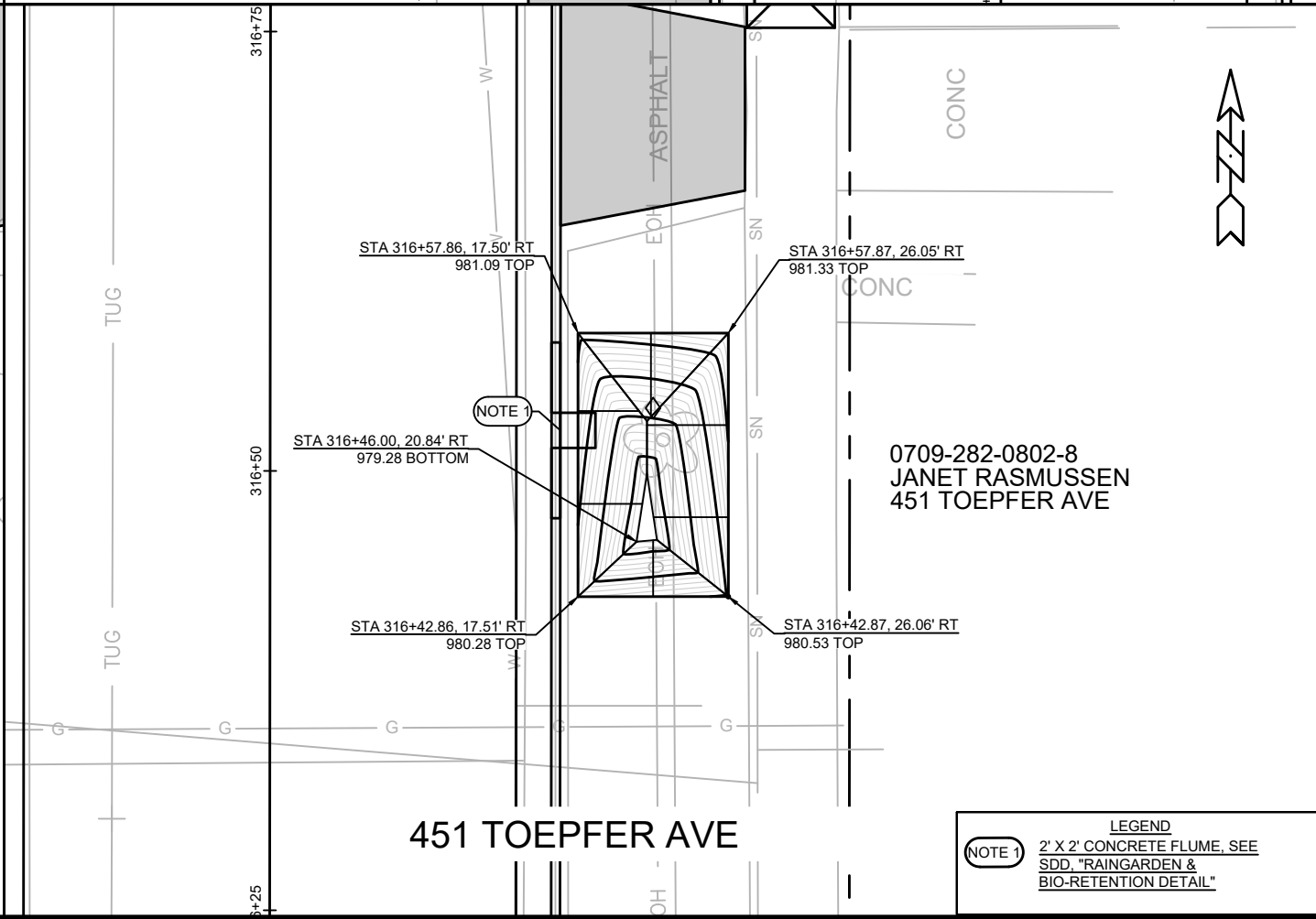
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TIMOTHY & LAURA PULS  
438 TOEPFER AVE

438 TOEPFER AVE



0709-282-0602-2  
GEORGE & BARB PERKINS  
442 TOEPFER AVE

442 TOEPFER AVE



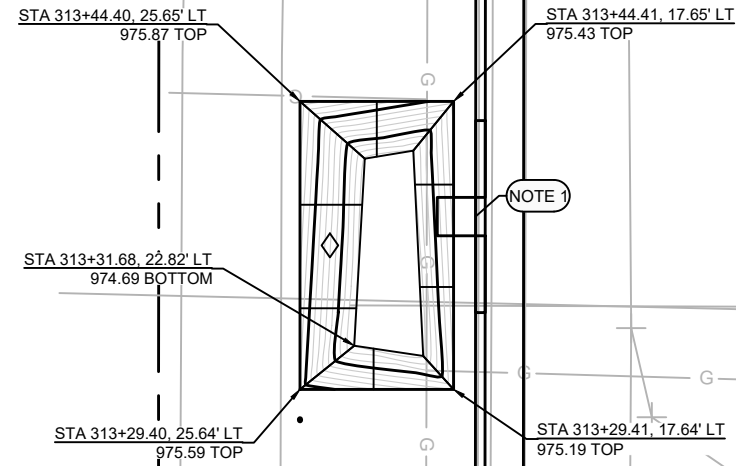
0709-282-0802-8  
JANET RASMUSSEN  
451 TOEPFER AVE

451 TOEPFER AVE

LEGEND  
NOTE 1 2' X 2' CONCRETE FLUME, SEE SDD, "RAINGARDEN & BIO-RETENTION DETAIL"

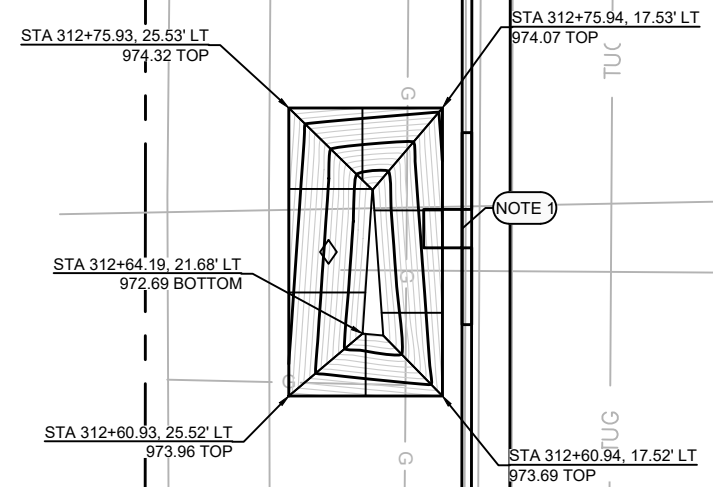
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MADISON, WI		MADISON, WI	
CONTRACT NO: 8306		CONTRACT NO: 8306	
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TERRACE RAIN GARDEN PLAN		TERRACE RAIN GARDEN PLAN	
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11744		11744	
GI-23B		GI-23B	

0709-282-1010-6  
JACOB GRIFFIN &  
SONYA NIKIFOROV  
504 TOEPFER AVE



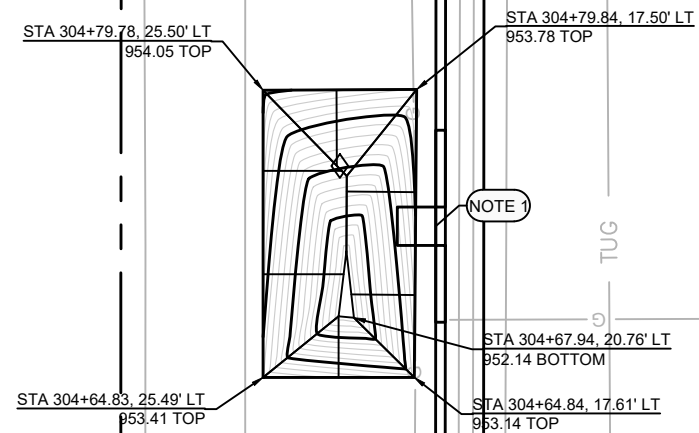
504 TOEPFER AVE

0709-282-1009-9  
LISA PAN &  
MATTHEW TYNDALE  
506 TOEPFER AVE



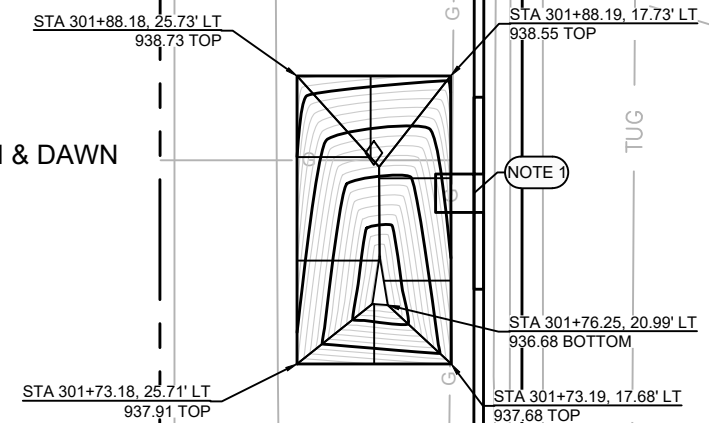
506 TOEPFER AVE

0709-282-1419-0  
ROBERT GAVIGAN  
572 TOEPFER AVE



572 TOEPFER AVE

0709-282-1414-0  
DAVID TOLLEFSON & DAWN  
LISKA-TOLLEFSON  
592 TOEPFER AVE



592 TOEPFER AVE

LEGEND  
NOTE 1 2' X 2' CONCRETE FLUME, SEE  
SDD, "RAINGARDEN &  
BIO-RETENTION DETAIL"

MARK	REVISION	DATE	BY
Designed By: ###			Date: 7/21/2020
11744			GI-23C

11744  
MADISON, WI  
CONTRACT NO: 8306

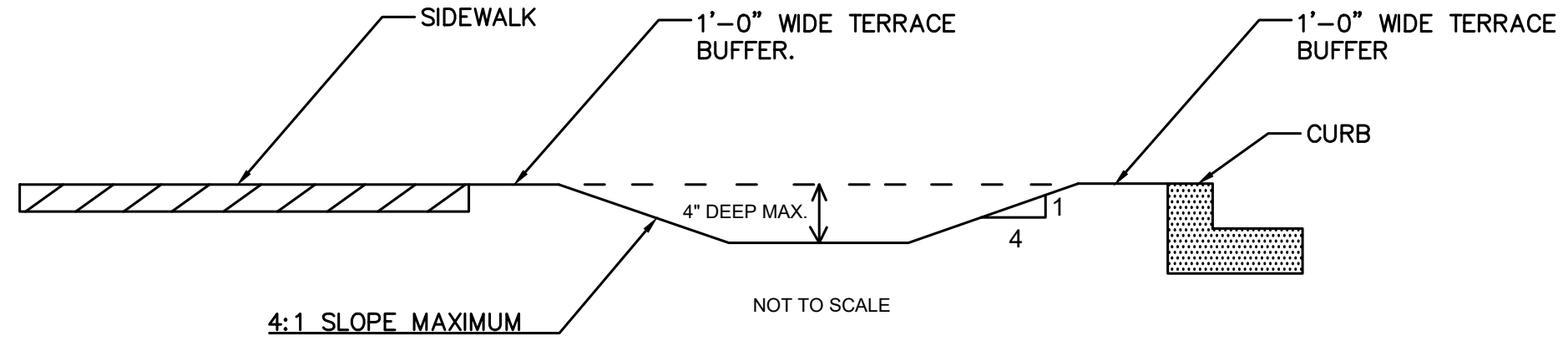
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TERRACE RAIN GARDEN PLAN  
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11744  
GI-23C

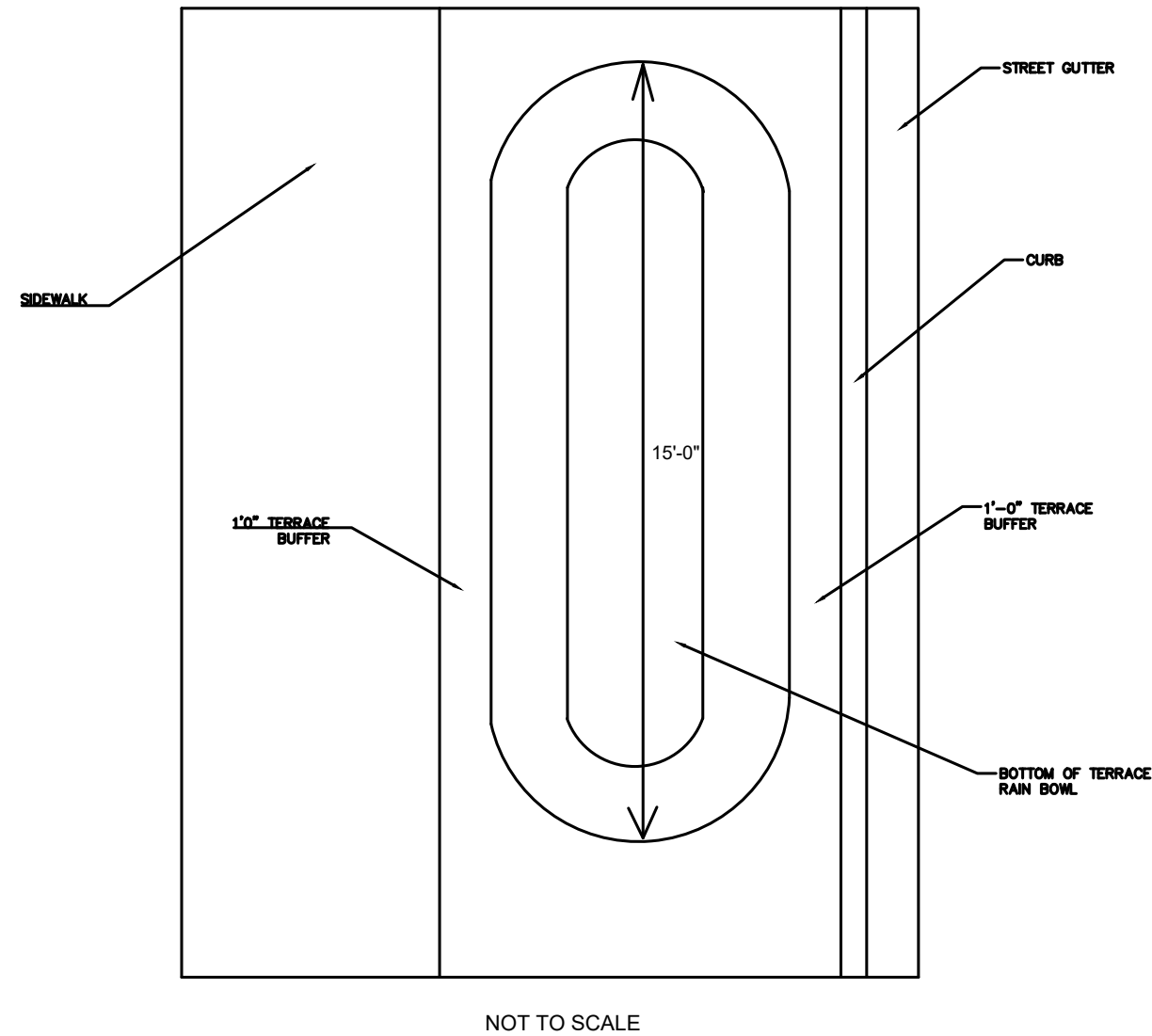
**STORMWATER TERACE DETAIL**

NOTE: BOTTOM SLOPE/ ELEVATION OF THE STORMWATER TERRACE SHALL PARALLEL THE ADJACENT LONGITUDINAL CURB SLOPE



**STORMWATER TERACE PLAN VIEW**

NOTE: BOTTOM SLOPE/ ELEVATION OF THE STORMWATER TERRACE SHALL PARALLEL THE ADJACENT LONGITUDINAL CURB SLOPE



MARK	REVISION	DATE	BY

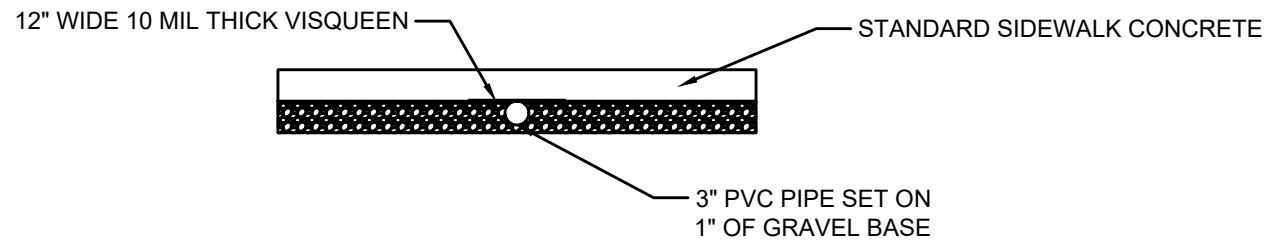
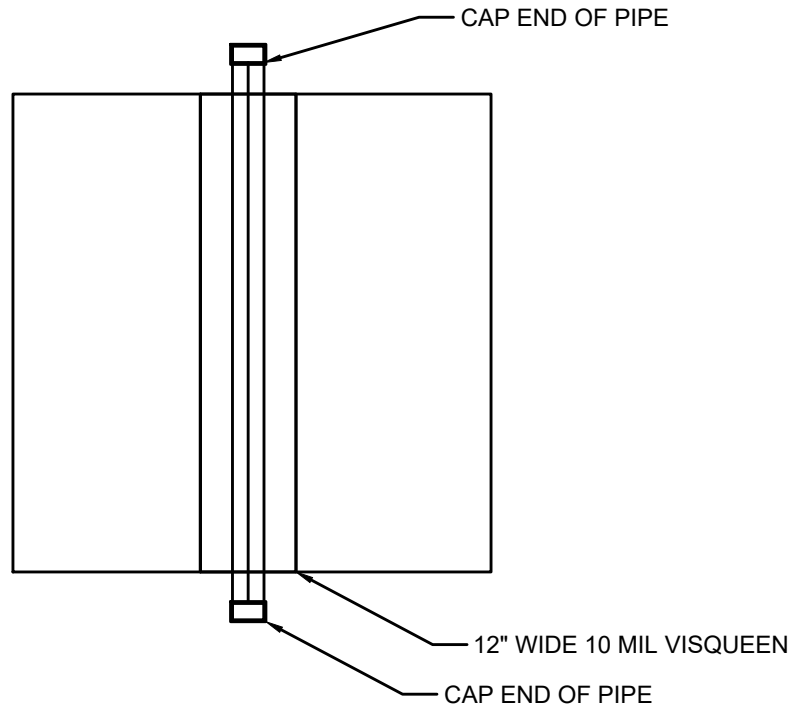
11744  
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TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
MADISON, WI  
CITY OF MADISON  
8306  
CONTRACT NO:  
11744  
GI-24



11744  
GI-24

**NOTE:**  
 A SIDEWALK PIPE IS TO BE INSTALLED AT EACH PROPERTY AS ONE OF THE TWO SIDEWALK PANELS REPLACED DURING SEWER LATERAL INSTALLATION UNLESS EXPLICITLY SHOWN ON THE GI PLANS.

R1



**SIDEWALK PIPE DETAIL**

MARK	REVISION	DATE	BY
11744			
Designed By: ###	Date: 4/20/2020 1:43 AM	Scale: #####	GI-25

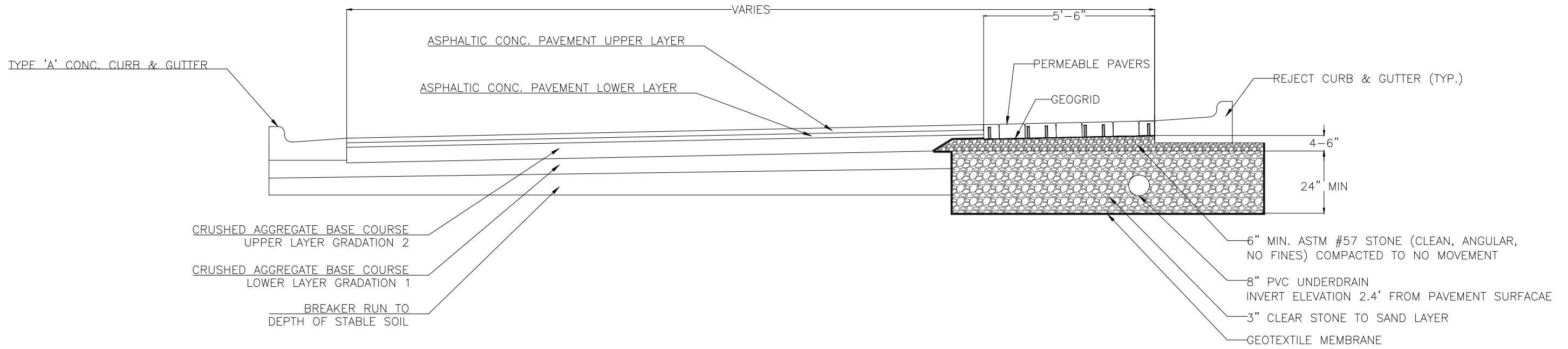
11744  
 MADISON, WI  
 TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 CONTRACT NO: 8306  
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11744  
 GI-25

R2: NEW SHEET

ST CLAIR PERMEABLE PAVER SECTION



NOTES:

- TRANSITION FROM ASTM #57 STONE TO CRUSHED AGGREGATE BASE COURSE AT LEAST 1' FROM EDGE OF PERMEABLE PAVERS. TAPER AT ANGLE OF REPOSE OF #57 STONE.
- CLEAR STONE 24" MINIMUM DEPTH, CUT TO DEPTH OF SANDY LOAM SOIL
- GEOTEXTILE MEMBRANE INSTALLED AT DEPTH OF SANDY LOAM SOIL
- PERMEABLE ROAD BASE LAYERS COMPACTED TO NO MOVEMENT.

MARK	REVISION	DATE	BY
11744	11744	5/28/2020 1:33 PM	11744

11744  
MADISON, WI  
CONTRACT NO: 8306  
M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg

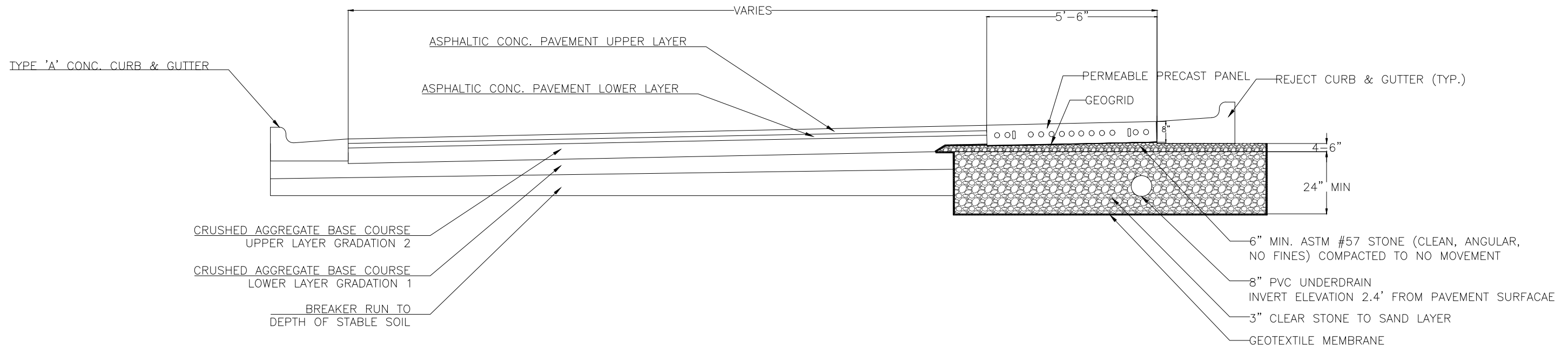


11744  
GI-26



R2: NEW SHEET

ST CLAIR PRECAST PANEL SECTION



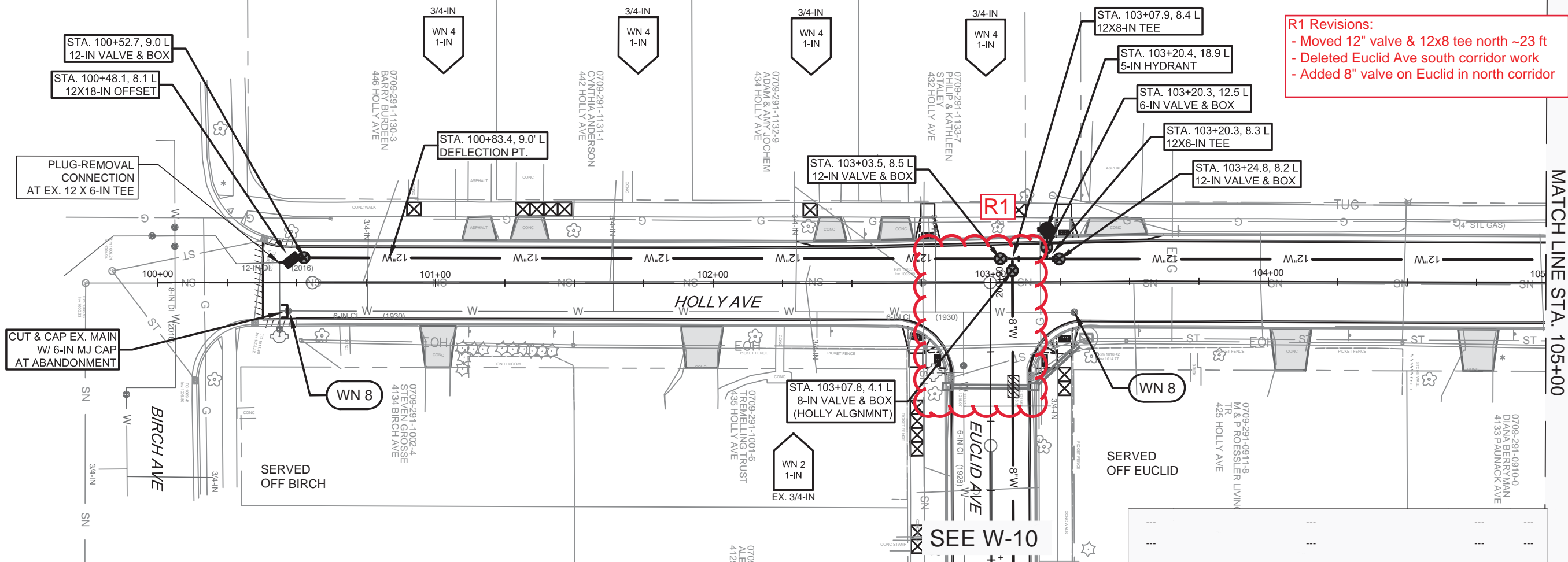
NOTES:

- TRANSITION FROM ASTM #57 STONE TO CRUSHED AGGREGATE BASE COURSE AT LEAST 1' FROM EDGE OF PERMEABLE PAVERS. TAPER AT ANGLE OF REPOSE OF #57 STONE.
- CLEAR STONE 24" MINIMUM DEPTH, CUTL TO DEPTH OF SANDY LOAM SOIL
- GEOTEXTILE MEMBRANE INSTALLED AT DEPTH OF SANDY LOAM SOIL
- PERMEABLE ROAD BASE LAYERS COMPACTED TO NO MOVEMENT.

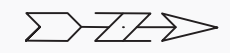
MARK	REVISION	DATE	BY

Designed By: ###  
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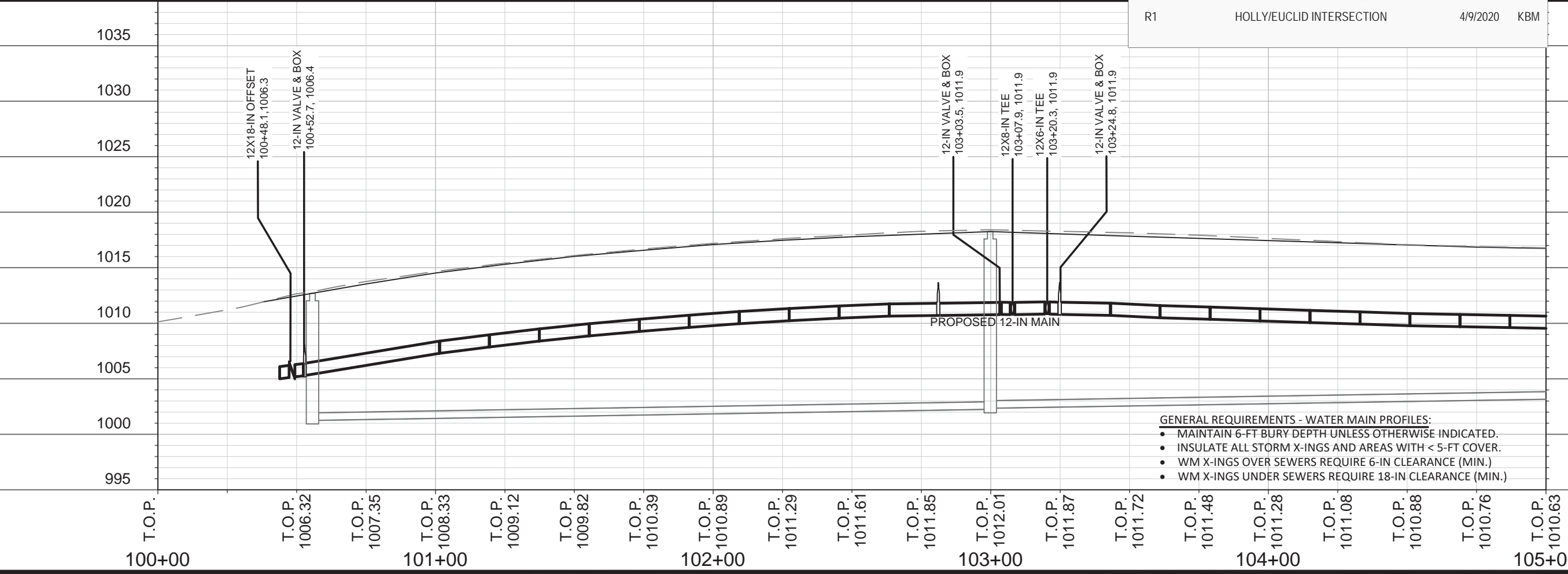
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 8306  
 CONTRACT NO:  
 M:\DESIGN\Projects\11744\C3D\Design\GreenInfrastructure\11744\_Permable Street Details.dwg



**R1 Revisions:**  
 - Moved 12" valve & 12x8 tee north ~23 ft  
 - Deleted Euclid Ave south corridor work  
 - Added 8" valve on Euclid in north corridor



MATCH LINE STA. 105+00



R1	HOLLY/EUCLID INTERSECTION	4/9/2020	KBM
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- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
  - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
  - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
  - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

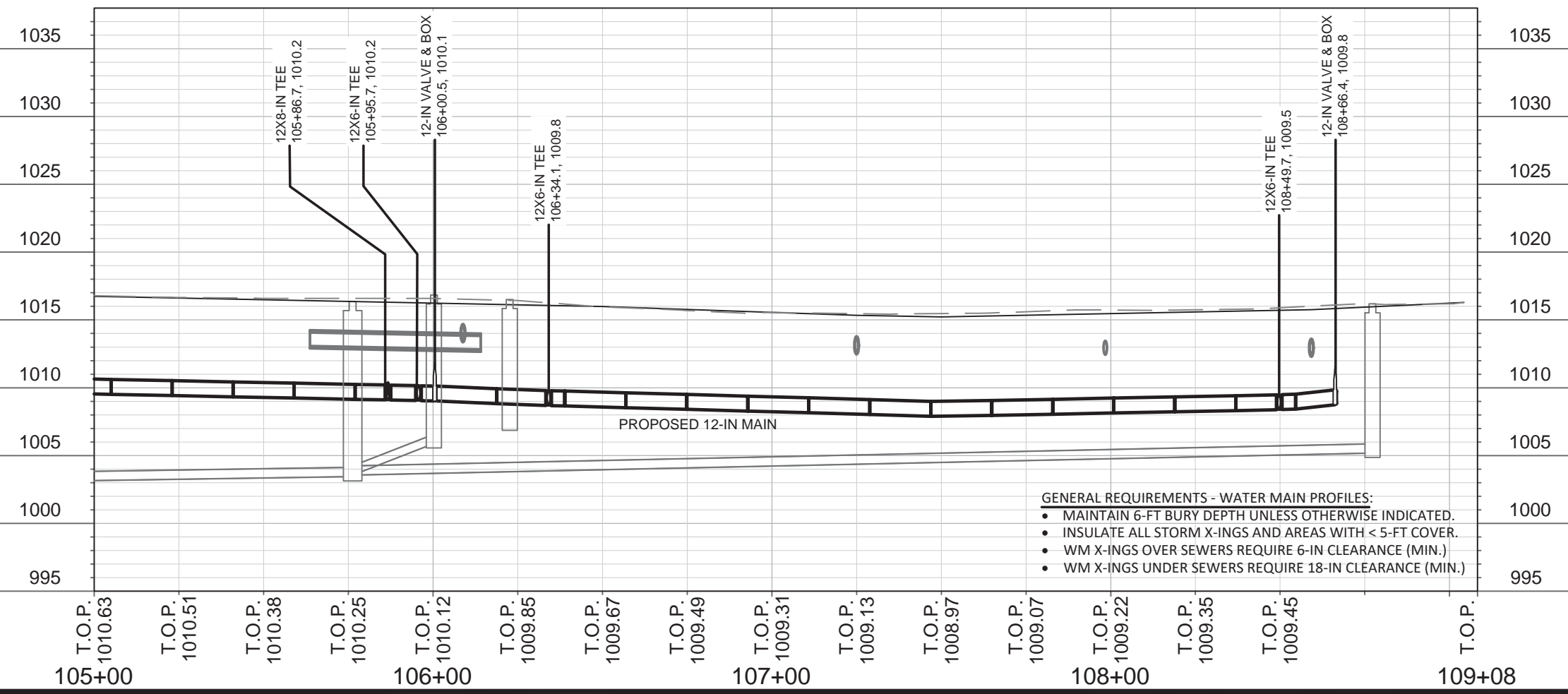
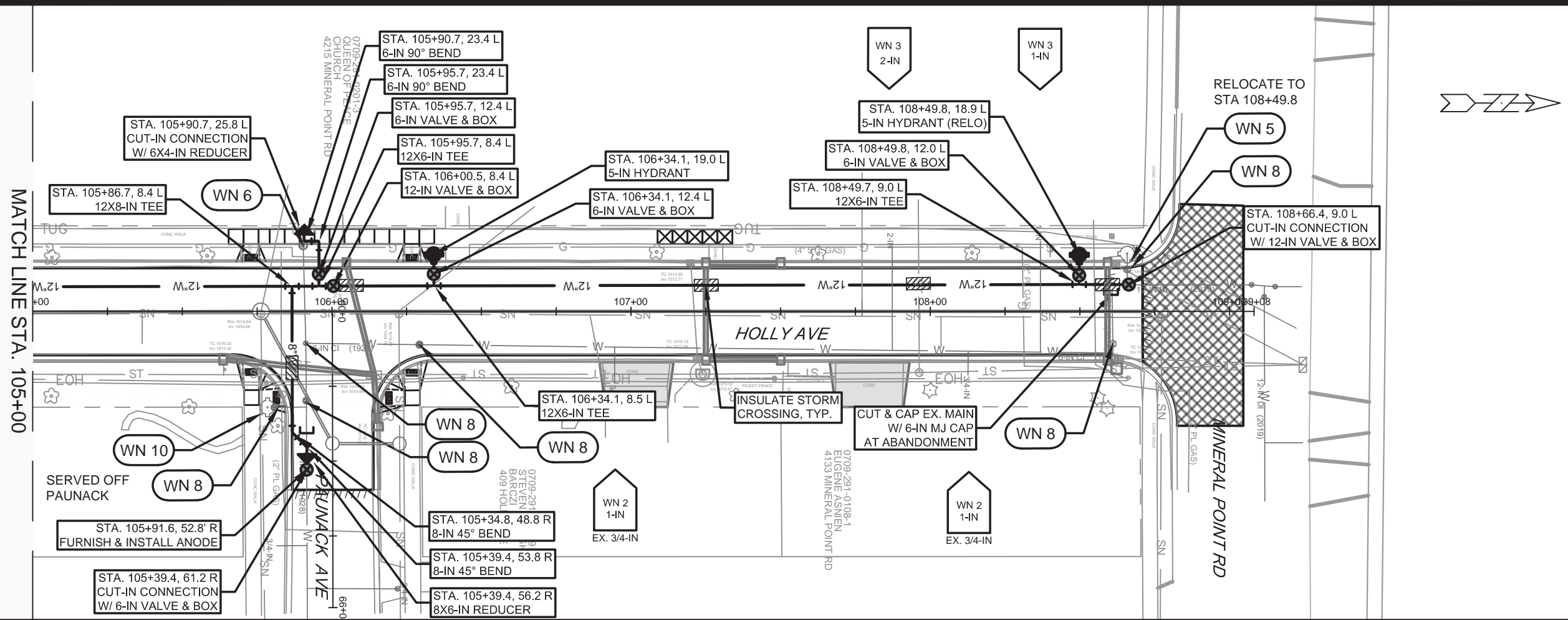
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 DESIGNED BY: KBM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

CONTRACT NO: 8306

TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: HOLLY AVE  
**CITY OF MADISON, WISCONSIN**

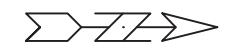


11744  
 W-1



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

MATCH LINE STA. 105+00



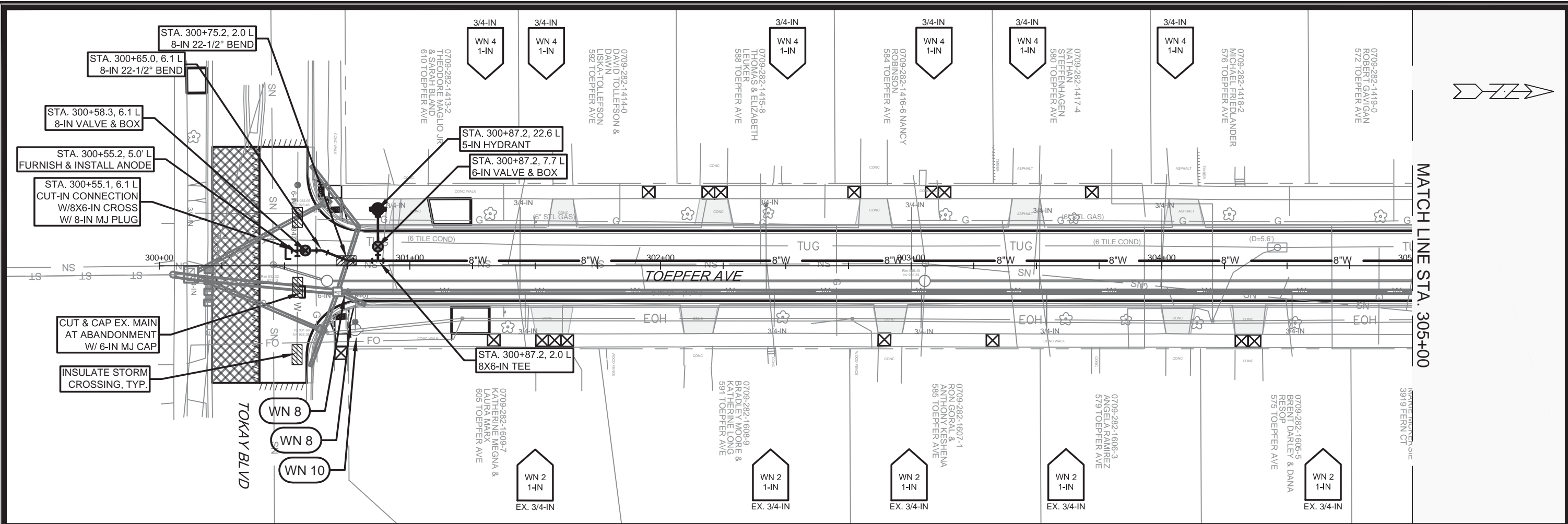
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 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

CONTRACT NO: 8306

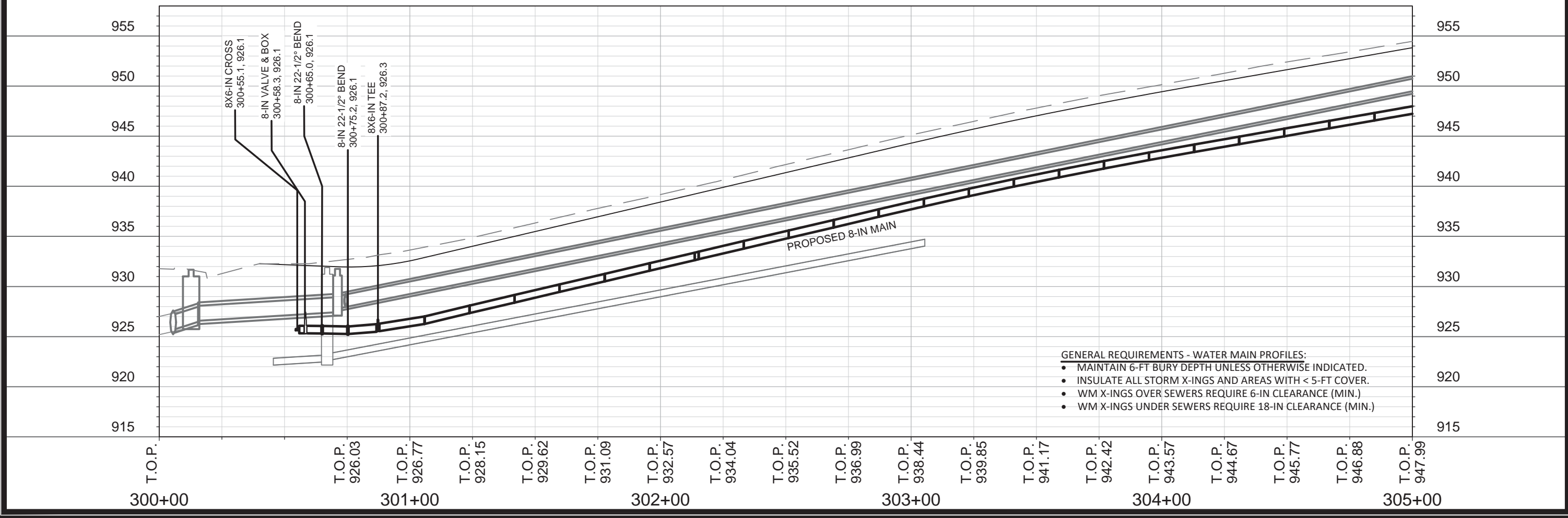
TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: HOLLY AVE  
**CITY OF MADISON, WISCONSIN**



11744  
 W-2



MATCH LINE STA. 305+00




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

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 DESIGNED BY: KBM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

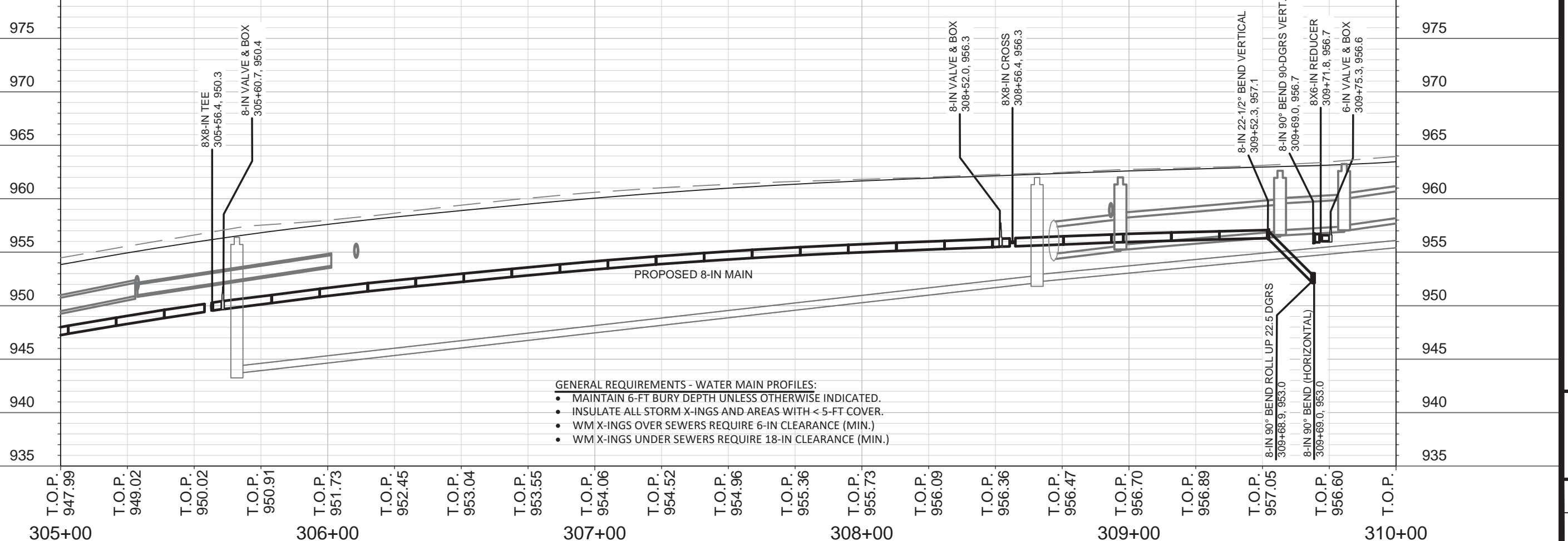
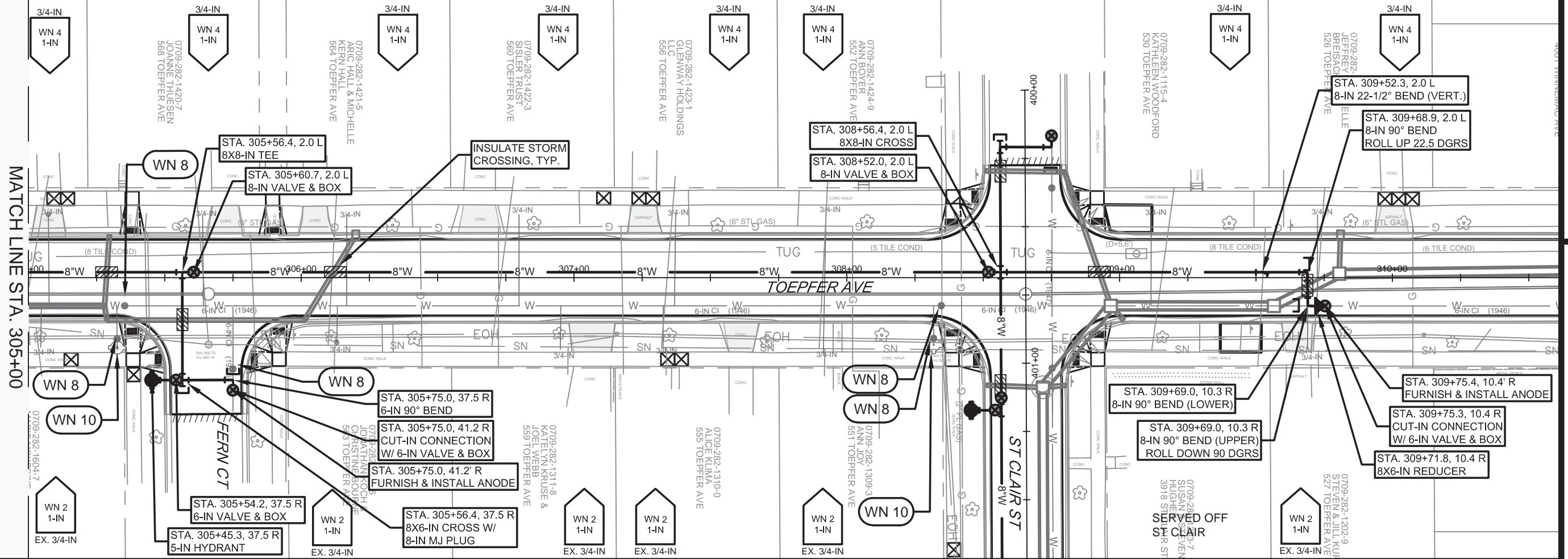
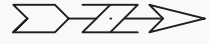
TOEPPER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: TOEPPER AVE  
**CITY OF MADISON, WISCONSIN**

CONTRACT NO: 8306

11744  
 W-3







- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
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  - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
  - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

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 DESIGNED BY: KBM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

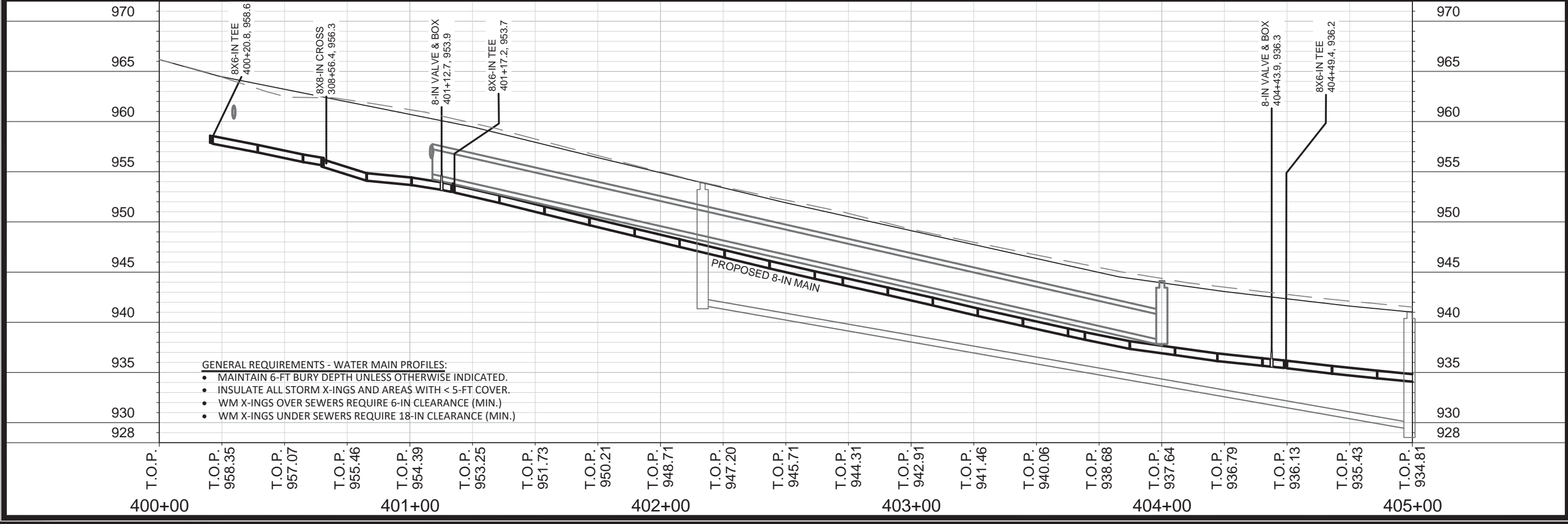
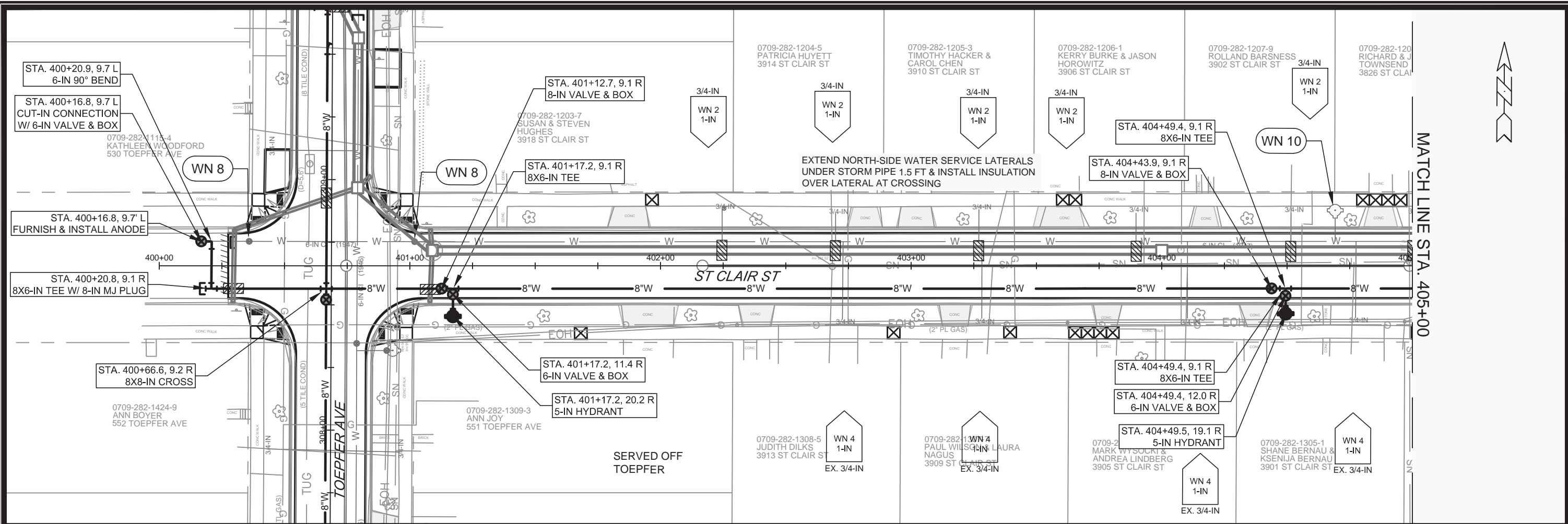
CONTRACT NO: 8306

TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: TOEPFER AVE  
**CITY OF MADISON, WISCONSIN**



11744  
 W-4





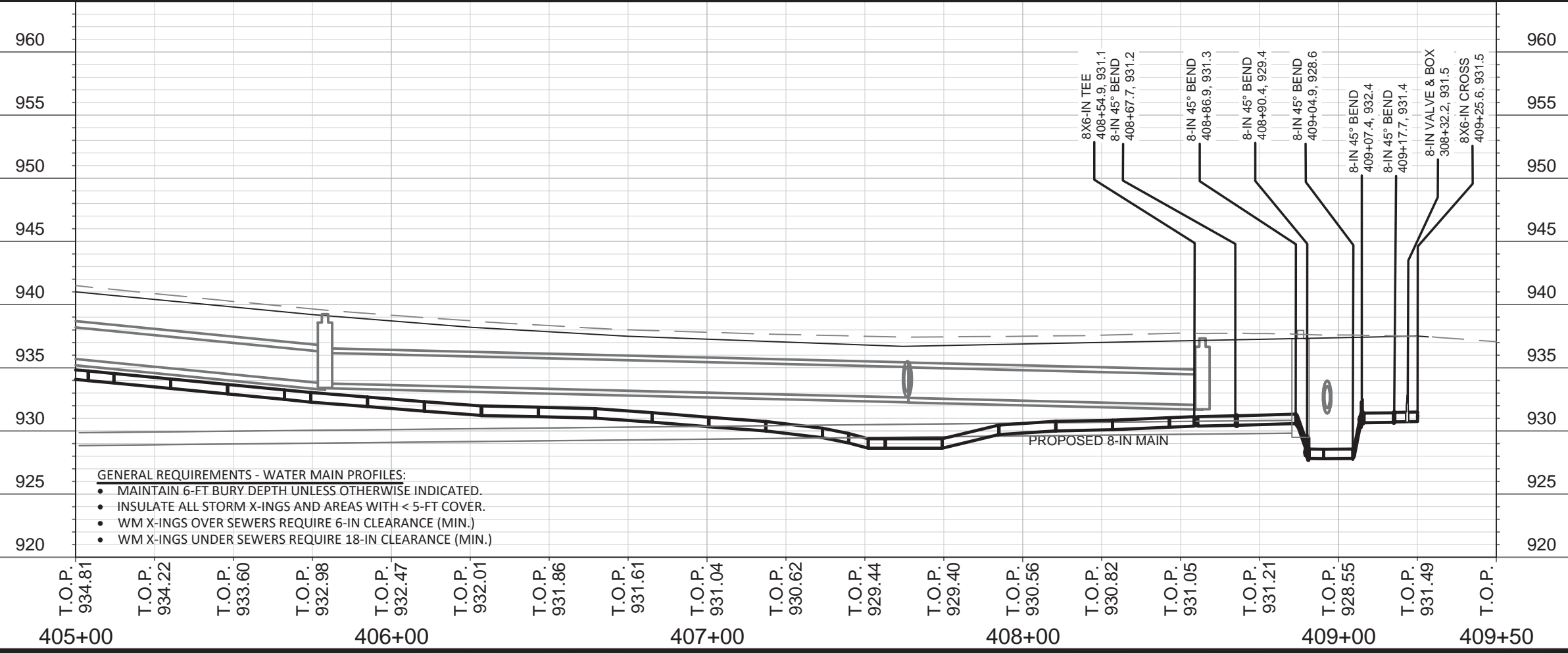
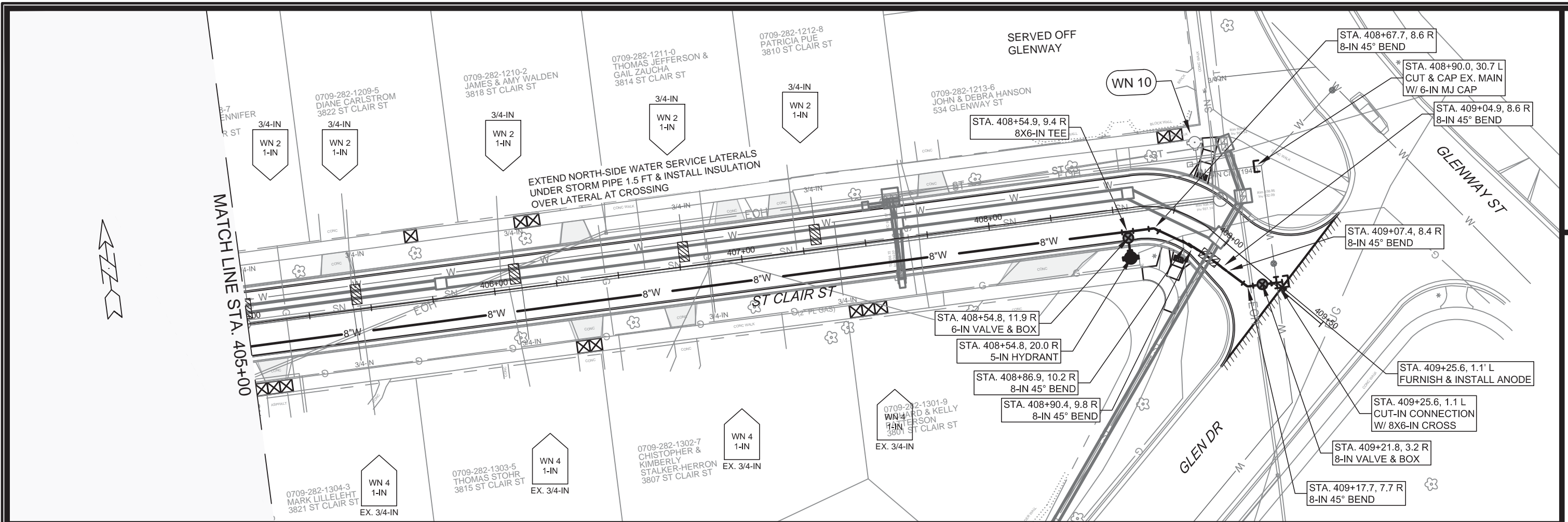
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SCALE: 1 IN:40 FT  
 DESIGNED BY: KBM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

TOEPPER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: ST CLAIR ST  
**CITY OF MADISON, WISCONSIN**

CONTRACT NO: 8306

11744  
 W-5



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
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  - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
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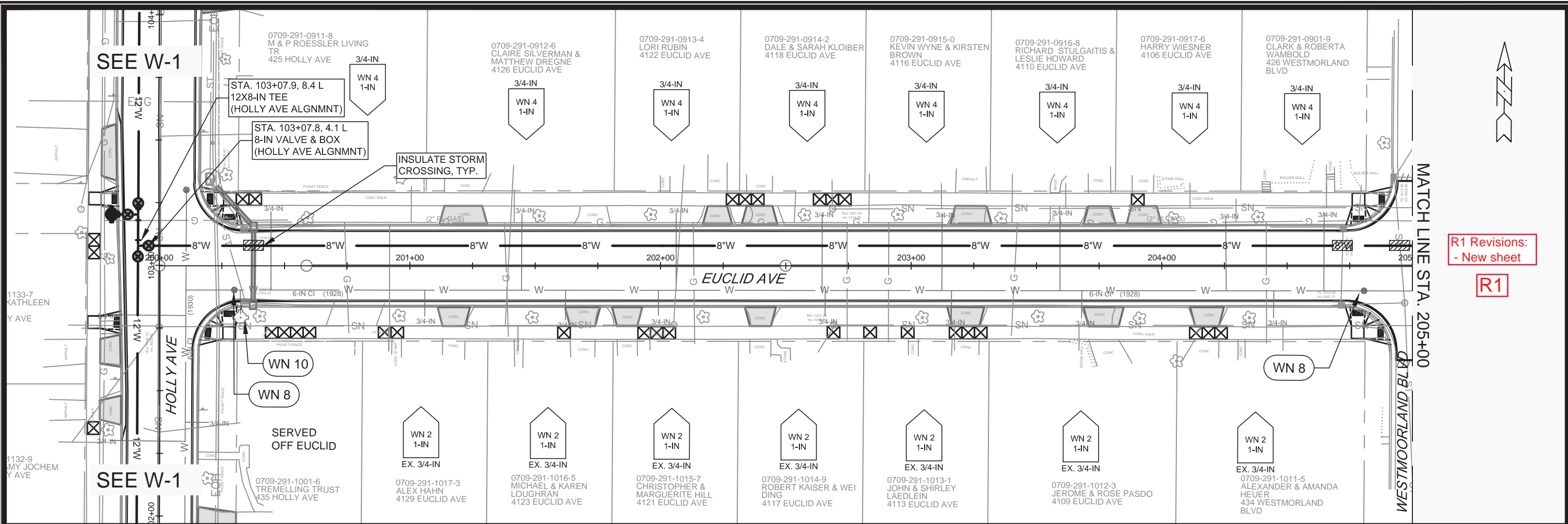
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 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

CONTRACT NO: 8306

TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: ST CLAIR ST  
**CITY OF MADISON, WISCONSIN**

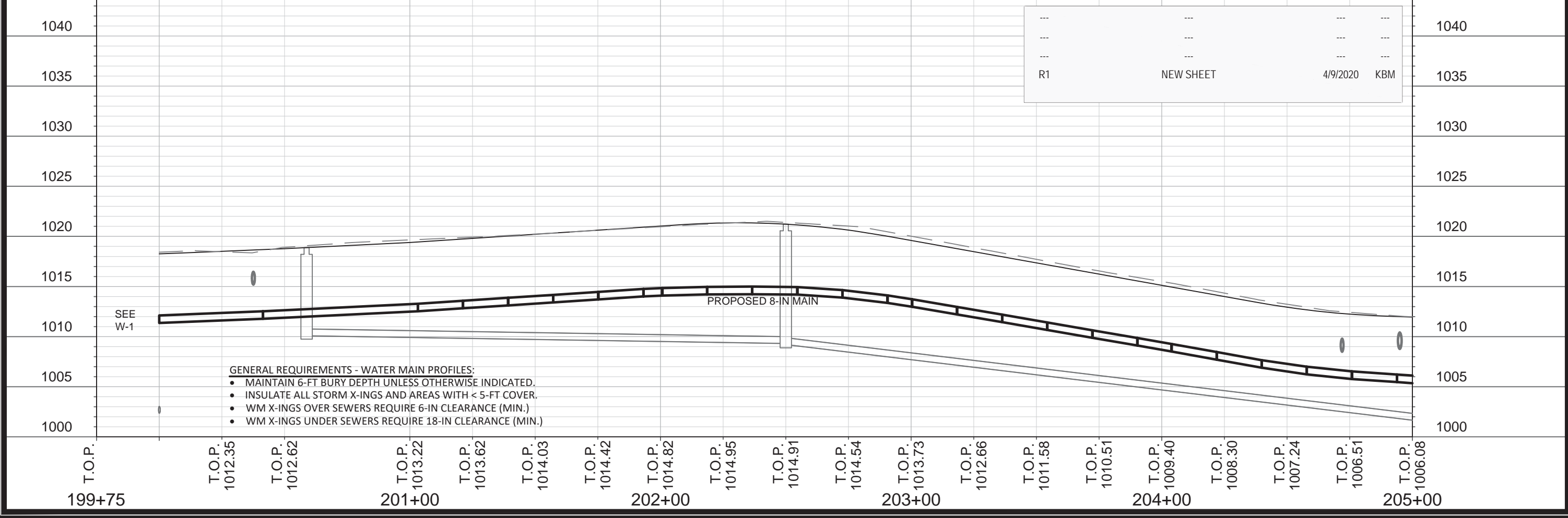


11744  
 W-6



R1 Revisions:  
- New sheet

**R1**



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
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R1	NEW SHEET	4/9/2020	KBM
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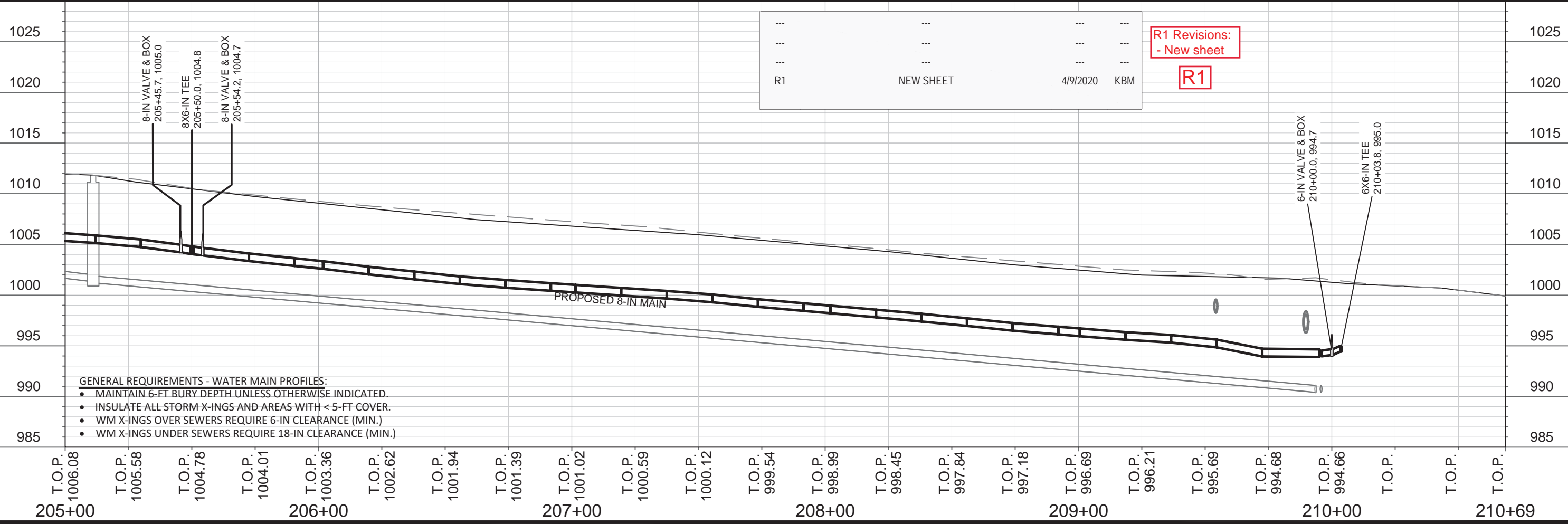
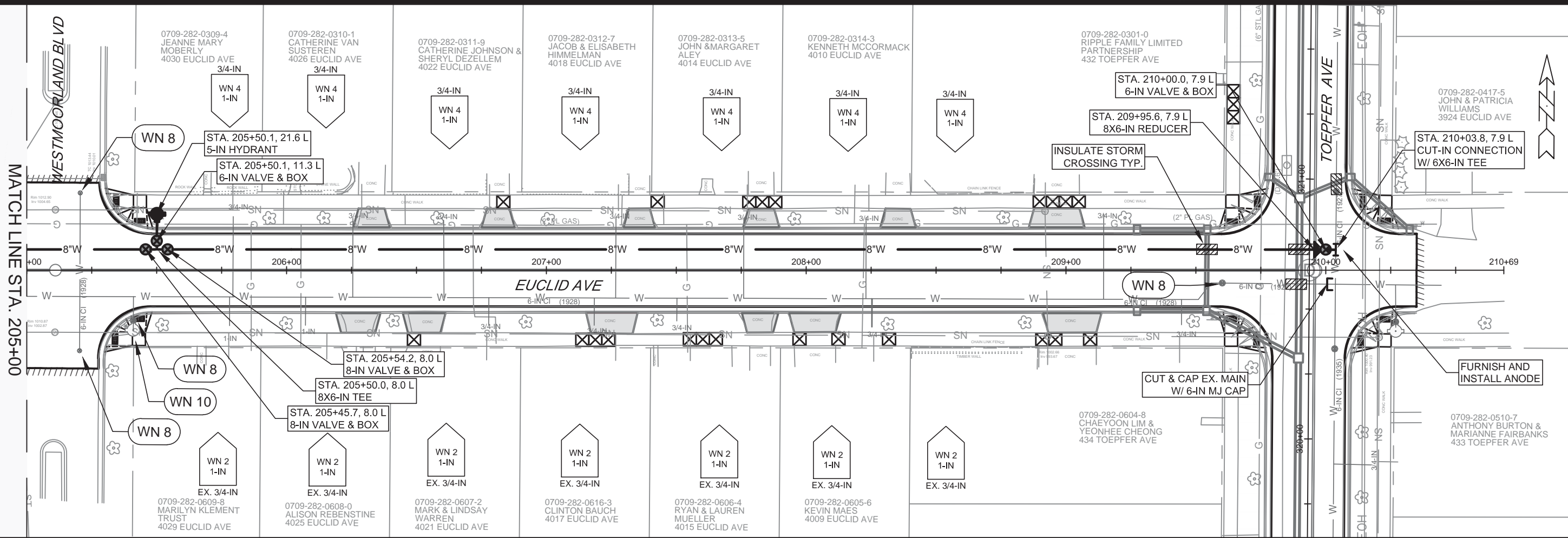
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 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: EUCLID AVE  
**CITY OF MADISON, WISCONSIN**

CONTRACT NO: 8306

11744  
 W-7





R1	NEW SHEET	4/9/2020	KBM
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R1 Revisions:  
 - New sheet

R1

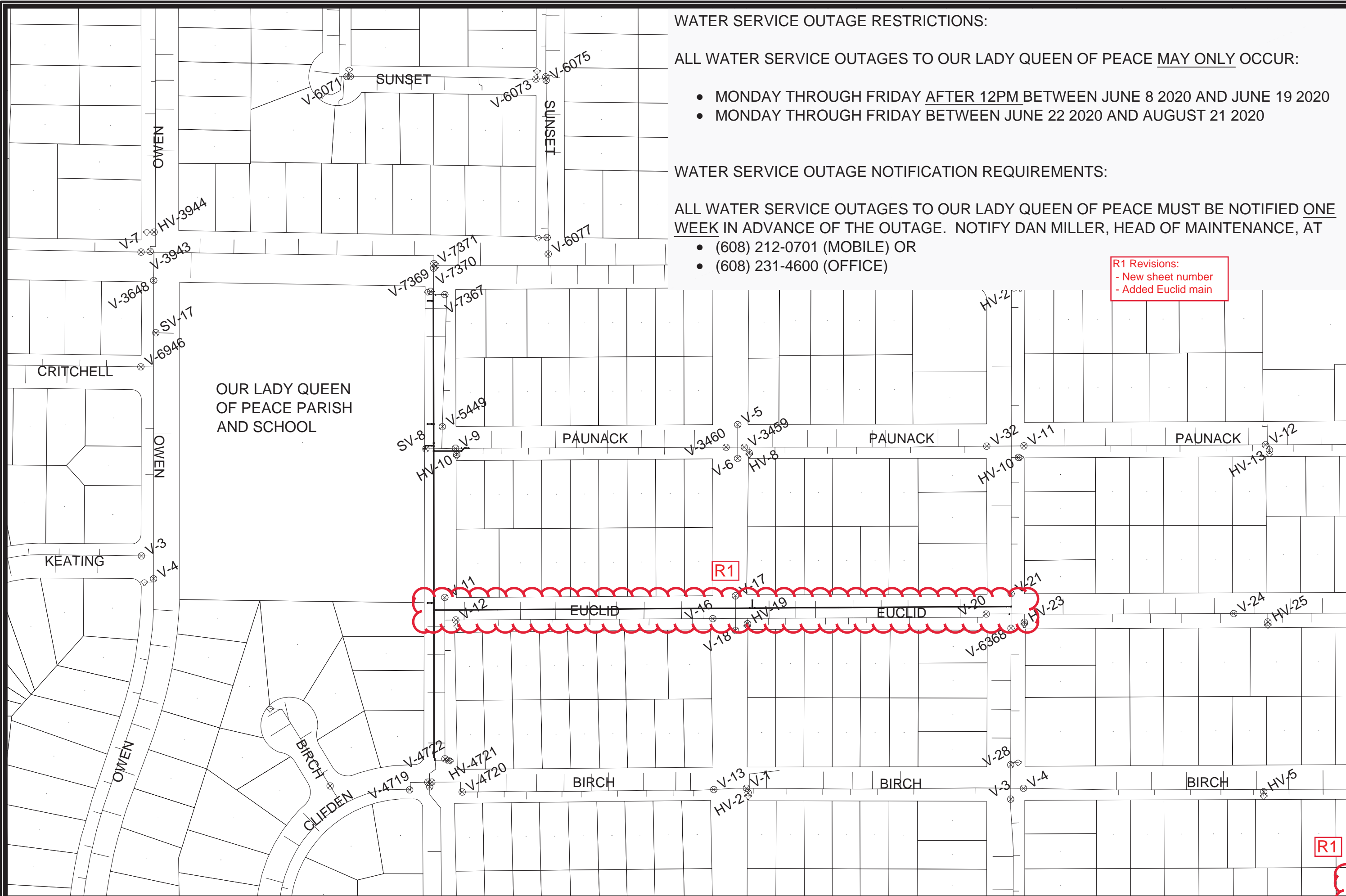
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 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 4/22/20

CONTRACT NO: 8306

TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 WATER PLAN & PROFILE: EUCLID AVE  
**CITY OF MADISON, WISCONSIN**



11744  
 W-8



**WATER SERVICE OUTAGE RESTRICTIONS:**

ALL WATER SERVICE OUTAGES TO OUR LADY QUEEN OF PEACE MAY ONLY OCCUR:

- MONDAY THROUGH FRIDAY AFTER 12PM BETWEEN JUNE 8 2020 AND JUNE 19 2020
- MONDAY THROUGH FRIDAY BETWEEN JUNE 22 2020 AND AUGUST 21 2020

**WATER SERVICE OUTAGE NOTIFICATION REQUIREMENTS:**

ALL WATER SERVICE OUTAGES TO OUR LADY QUEEN OF PEACE MUST BE NOTIFIED ONE WEEK IN ADVANCE OF THE OUTAGE. NOTIFY DAN MILLER, HEAD OF MAINTENANCE, AT

- (608) 212-0701 (MOBILE) OR
- (608) 231-4600 (OFFICE)

R1 Revisions:  
 - New sheet number  
 - Added Euclid main

MARK	REVISION	DATE	BY
11744	W-9		

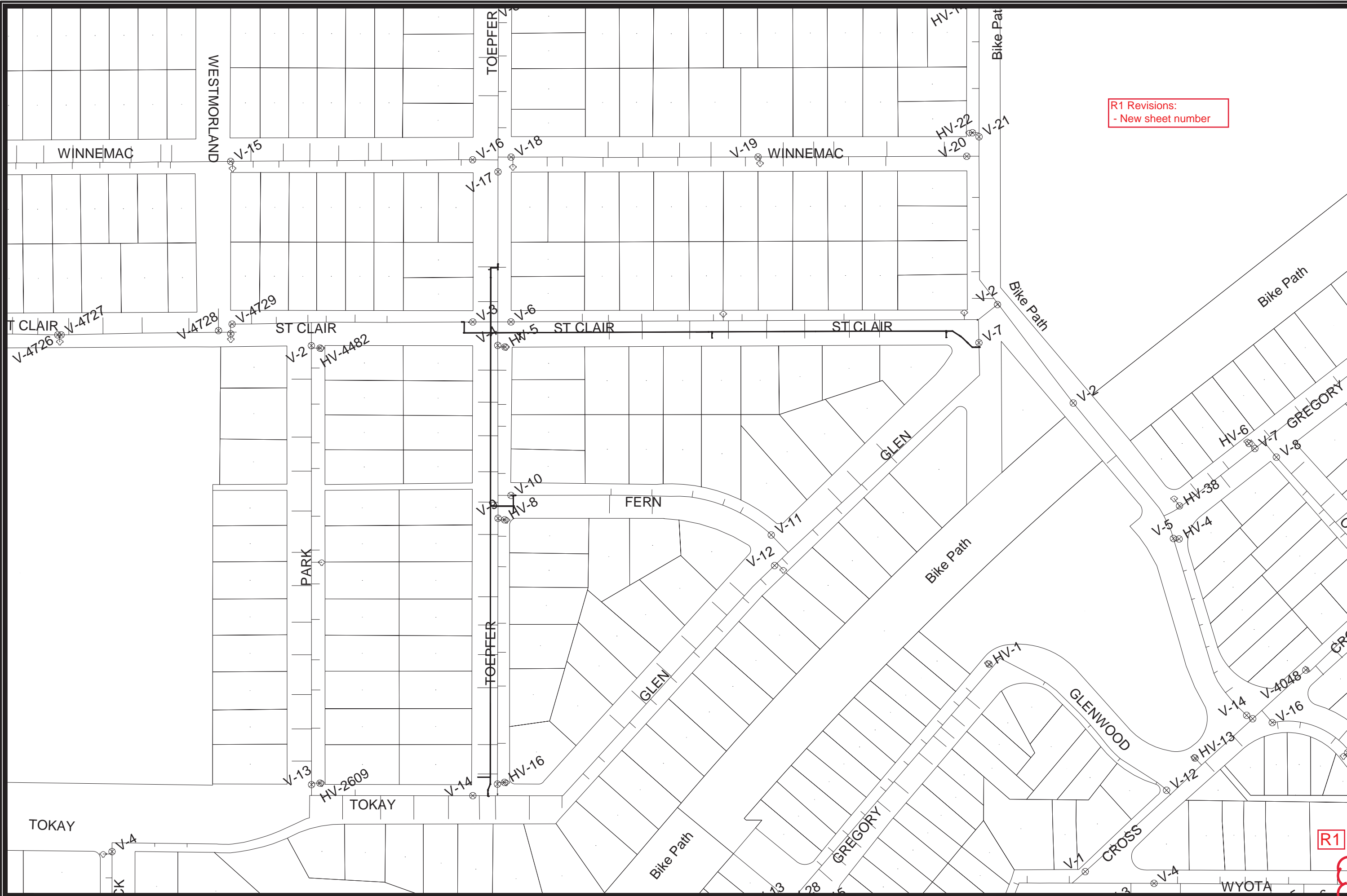
11744  
 MADISON, WI  
 CONTRACT NO: 8306

WATER IMPACT PLAN  
 TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 CITY OF MADISON



11744  
 W-9





R1 Revisions:  
- New sheet number

MARK	REVISION	DATE	BY
11744	11744	11744	11744
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11744	11744	11744	11744
11744	11744	11744	11744

11744  
MADISON, WI  
CONTRACT NO: 8306  
WATER IMPACT PLAN  
TOEPPER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
CITY OF MADISON



11744  
W-10

R1

**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 CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN REPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

**R1**

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN-2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN-3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN-4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN-5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN-6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN-7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN-8 ABANDON THE VALVE BOX.
- WN-9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN-10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN-11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN-20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

**WATER UTILITY ULO SCHEDULE:**

ULO UTILITY STATION OFFSET SHEET

**R1 Revisions:**  
 - New sheet number  
 - Updated Material Estimate

**\*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

ITEM ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	245	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	2960	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	830	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	15	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	9	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	5	EACH
70040	FURNISH INSTALL AND SALVAGE HYDRANT	9	EACH
70056	RECONNECT 1-INCH SERVICE LATERAL	81	EACH
70101	FURNISH AND INSTALL STYROFOAM	336	LNFT
71001	6-IN MJ CAP	10	EACH
71014	8-IN MJ PLUG	6	EACH
71040	8X6-IN CROSS	3	EACH
71041	8X8-IN CROSS	1	EACH
71110	6-IN 90° BEND	5	EACH
71111	8-IN 90° BEND	3	EACH
71123	8-IN 45° BEND	8	EACH
71135	8-IN 22.5° BEND	3	EACH
71157	6X4-IN REDUCER	1	EACH
71159	8X6-IN REDUCER	2	EACH
71210	8X6-IN TEE	7	EACH
71211	8X8-IN TEE	1	EACH
71217	12X6-IN TEE	4	EACH
71218	12X8-IN TEE	2	EACH
70111	FURNISH & INSTALL ANODE	7	EACH
	POLY WRAP	4640	LNFT
	12-IN X 18-IN OFFSET	1	EACH

**\*ESTIMATE OF MATERIALS SUPPLIED BY WATER UTILITY:**

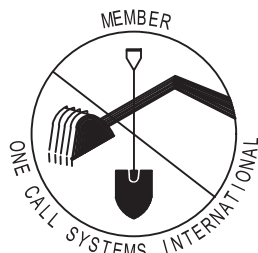
**\*ESTIMATE OF MATERIALS SALVAGED:**

HYDRANT	1	EACH
---------	---	------

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

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
 CALL DIGGERS HOTLINE  
 TOLL FREE  
 811 OR 1-800-242-8511  
 FAX-A-LOCATE 1-800-338-3860  
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

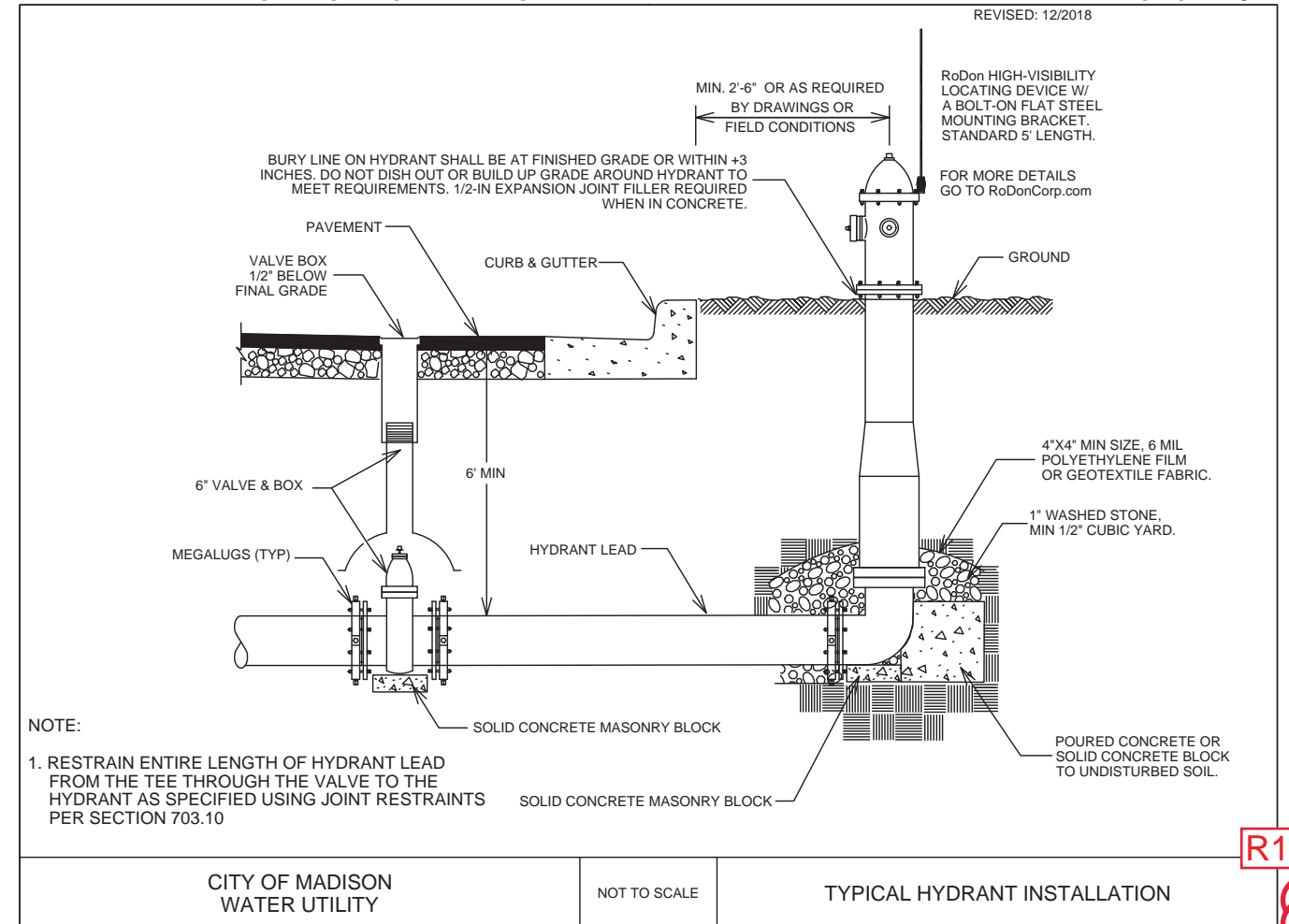


**DISCLAIMER NOTE:** UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

**PART VII - WATER MAINS AND SERVICE LATERALS**

**DETAIL DRAWING NO. 7.04**

REVISED: 12/2018



CITY OF MADISON  
 WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

**R1**

MARK	REVISION	DATE	BY
11744	11744	11744	W-11

11744  
 MADISON, WI  
 8306  
 CONTRACT NO:

WATER ESTIMATE OF WATER ESTIMATE OF MATERIALS  
 TOEPFER, HOLLY, EUCLID & ST CLAIR ASMT DIST 2020  
 CITY OF MADISON



11744  
 W-11

LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Work Zone
	Barricade
	Tubular Marker
	Lighted Barrel
	Barrel



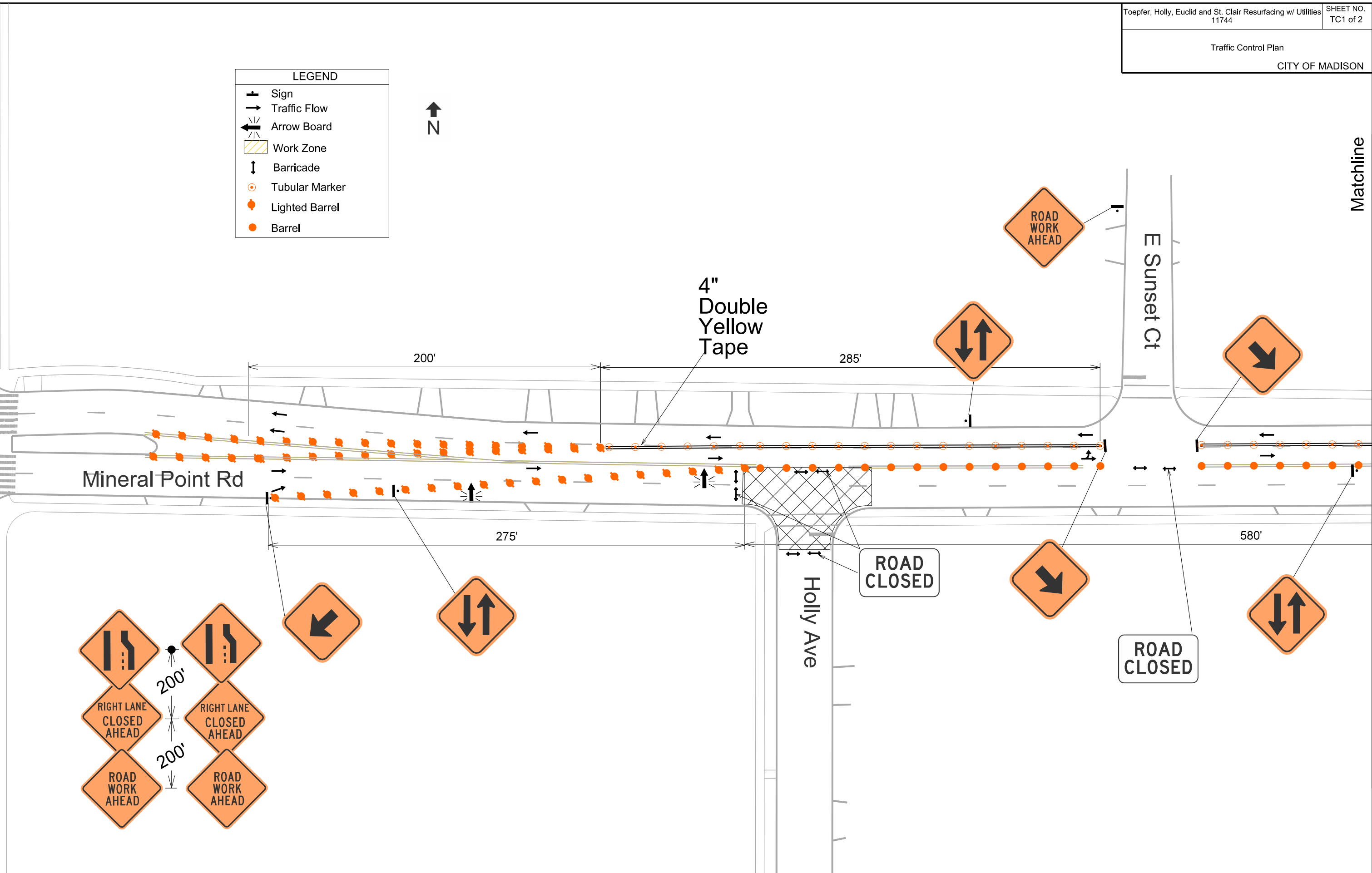
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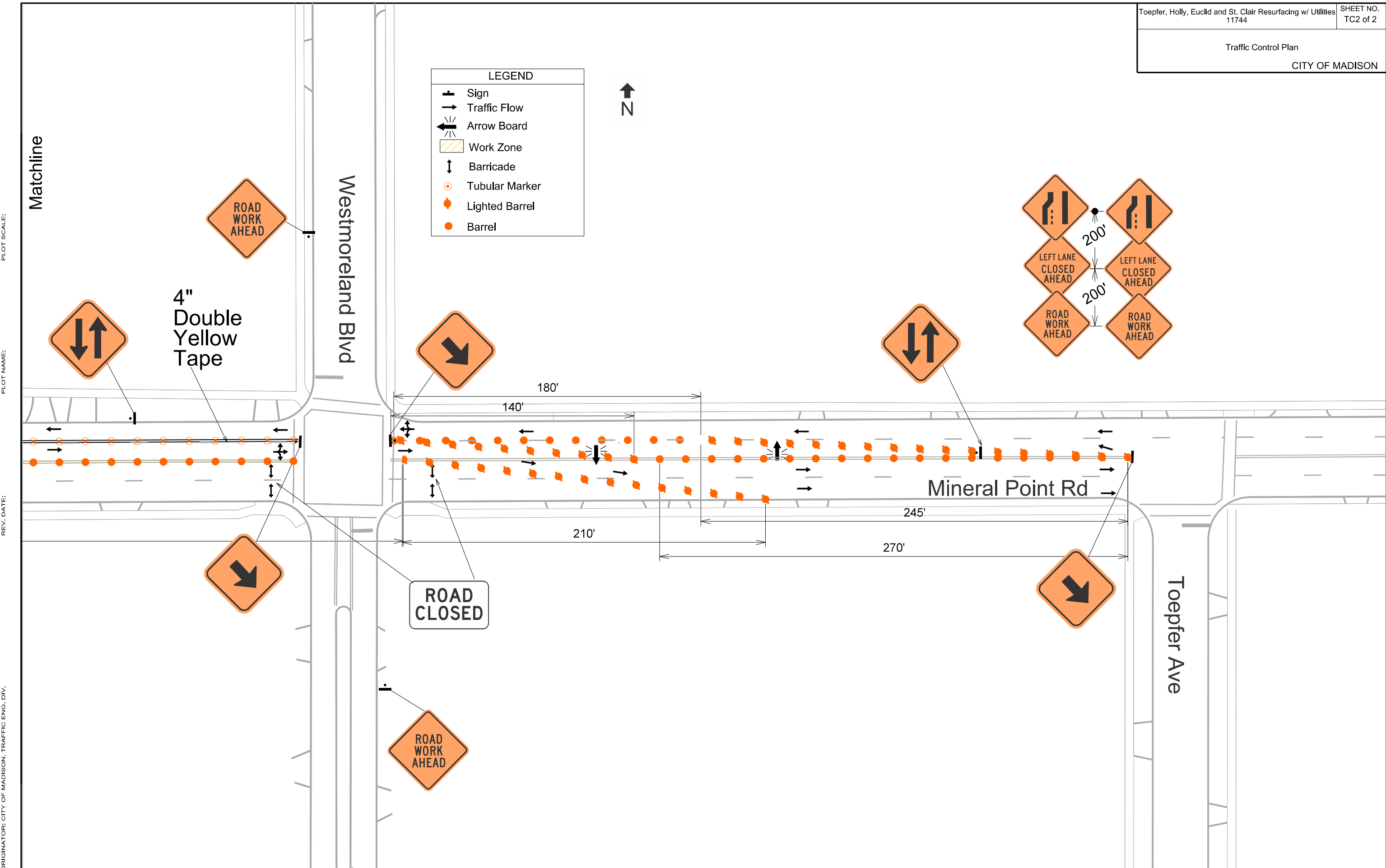
REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

Matchline



LEGEND	
	Sign
	Traffic Flow
	Arrow Board
	Work Zone
	Barricade
	Tubular Marker
	Lighted Barrel
	Barrel



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



E Sunset Ct

Mineral Point Rd

Holly Ave

Callout	Description
1	Pavement Marking Epoxy, 4-Inch Double Yellow
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch

PLOT SCALE:

PLOT NAME:

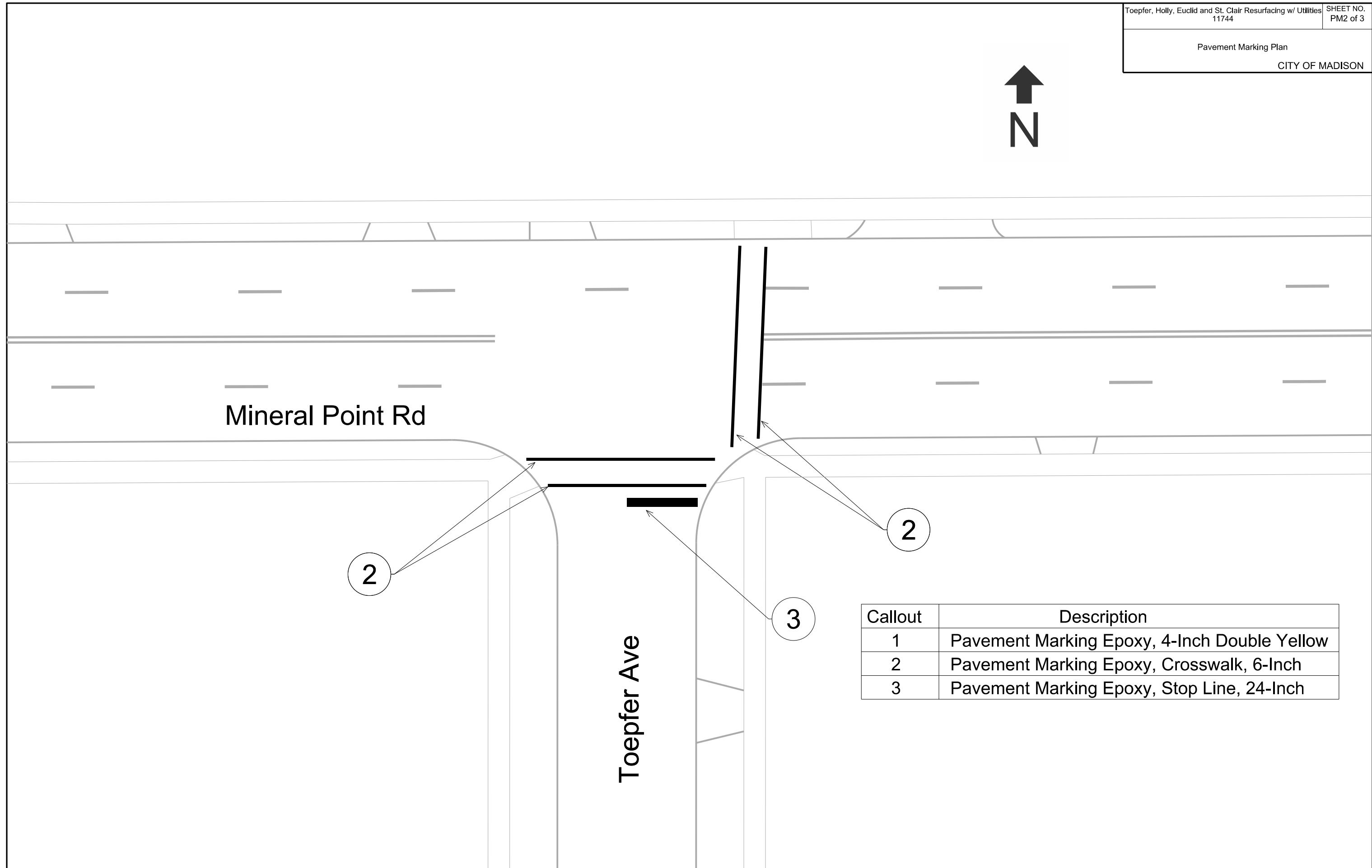
REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





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



Mineral Point Rd

Toepfer Ave

2

3

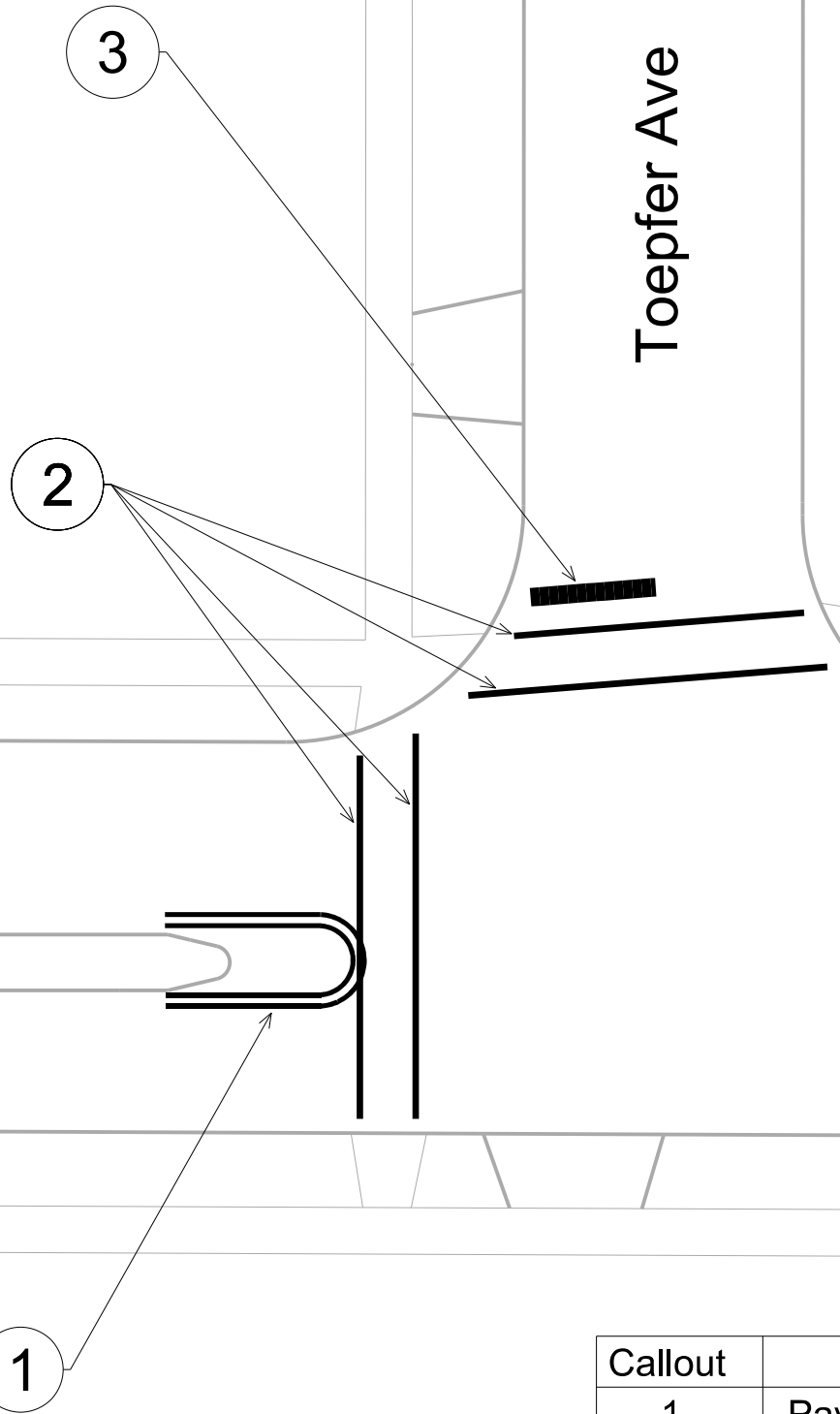
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Callout	Description
1	Pavement Marking Epoxy, 4-Inch Double Yellow
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch



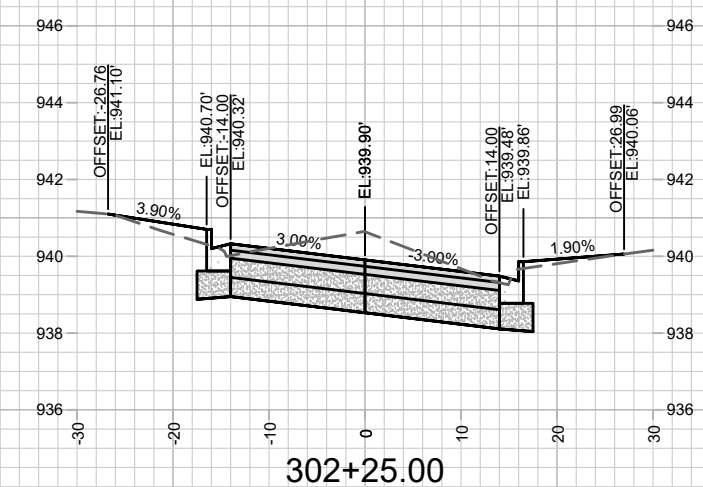
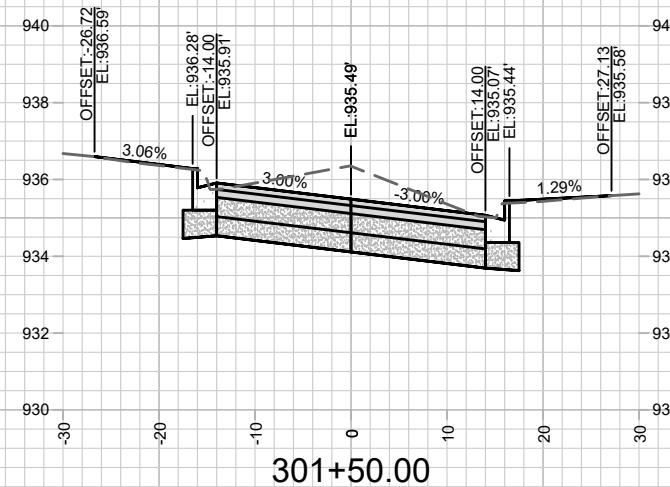
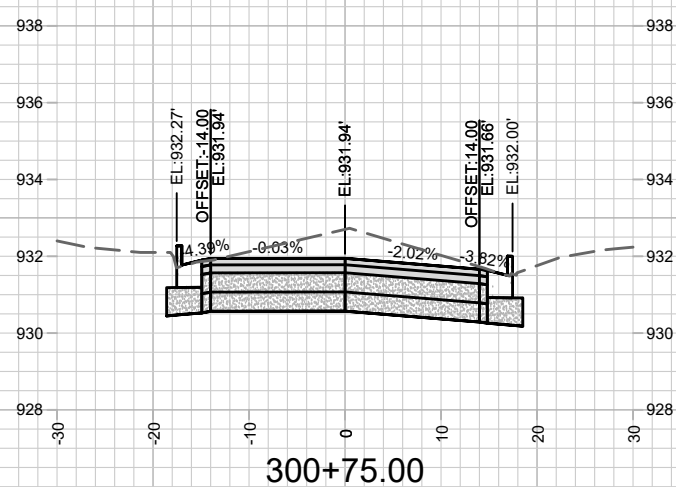
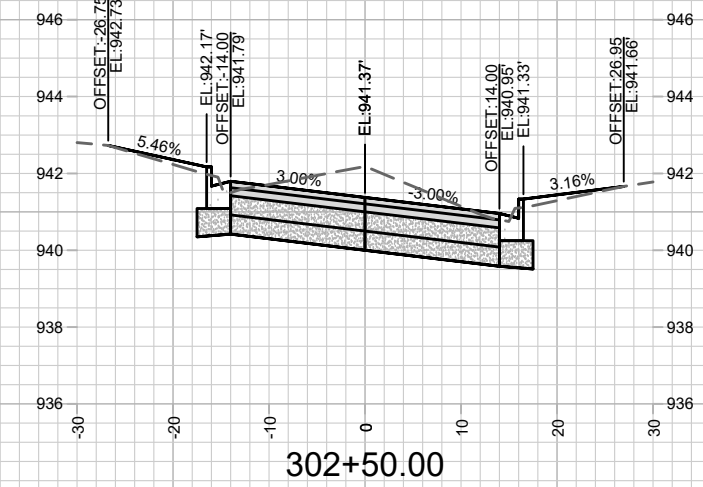
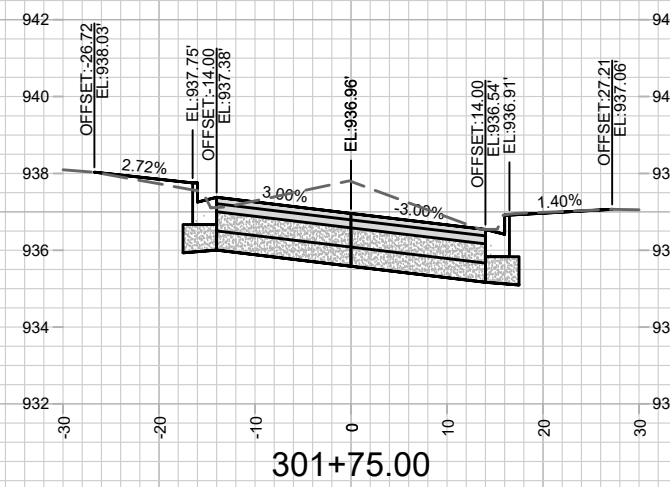
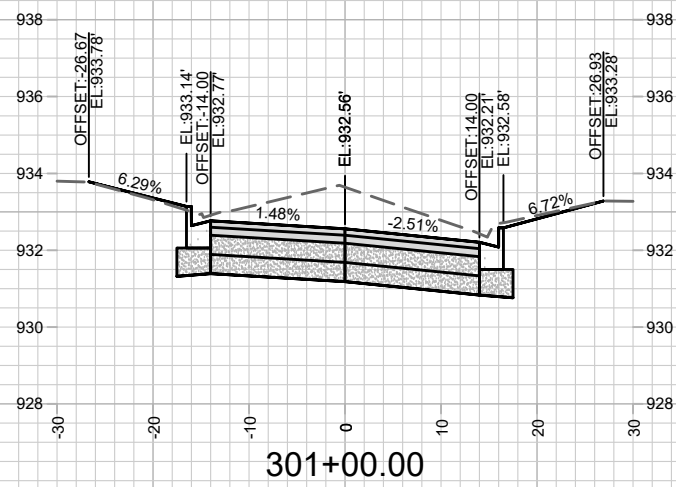
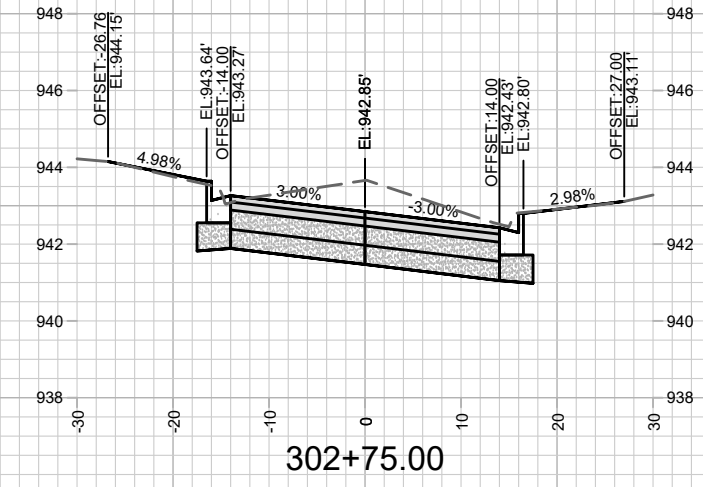
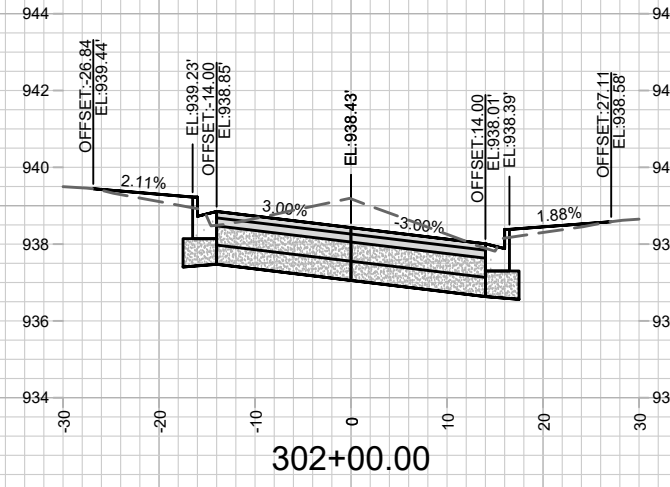
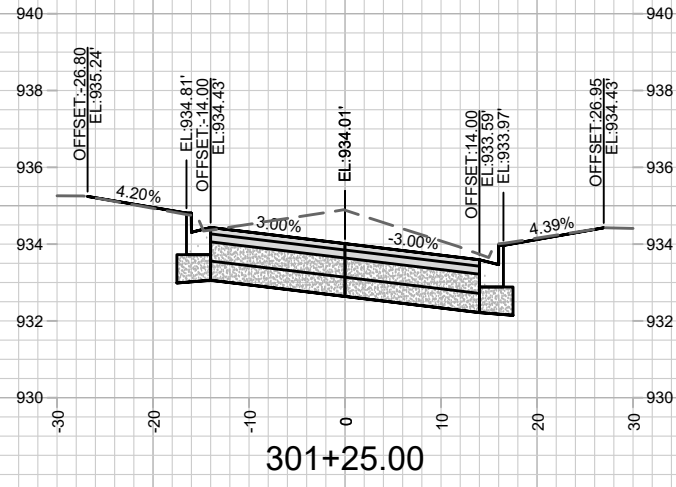
Toepfer Ave

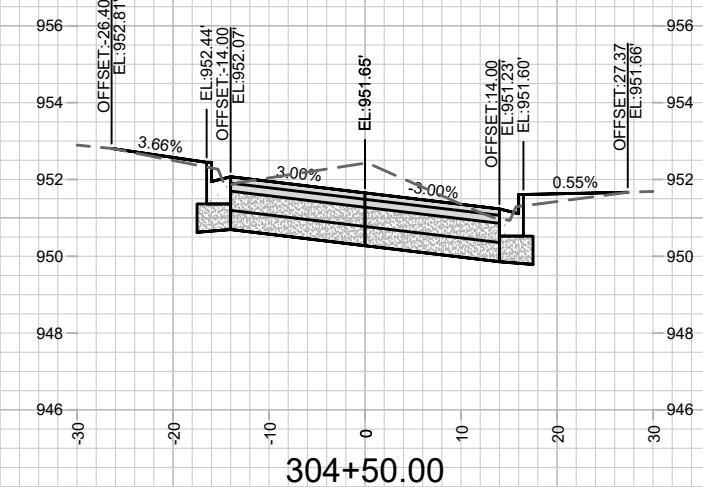
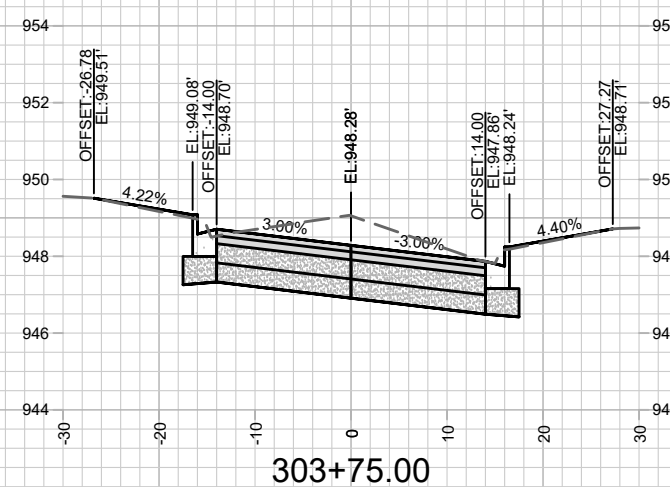
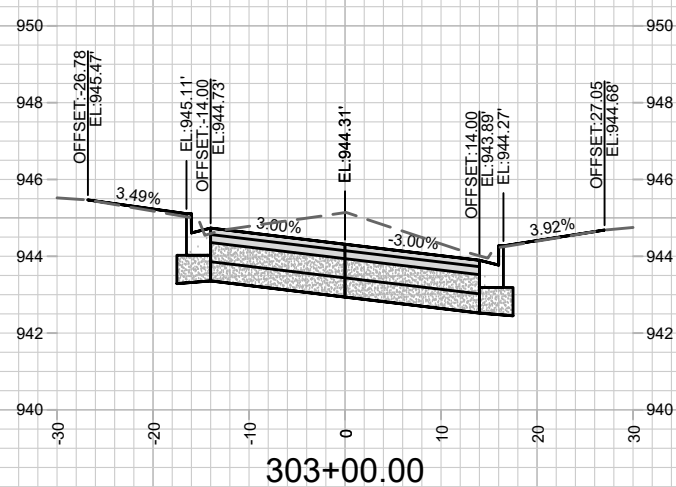
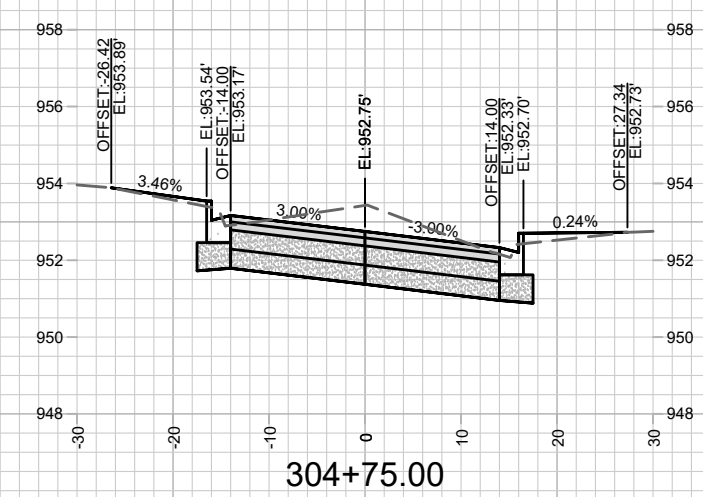
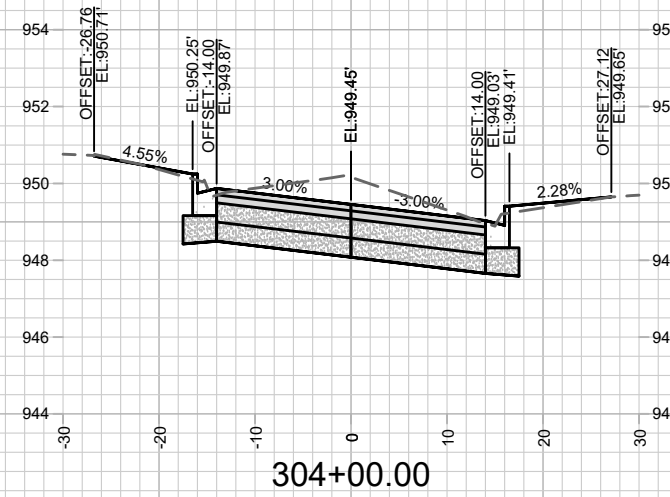
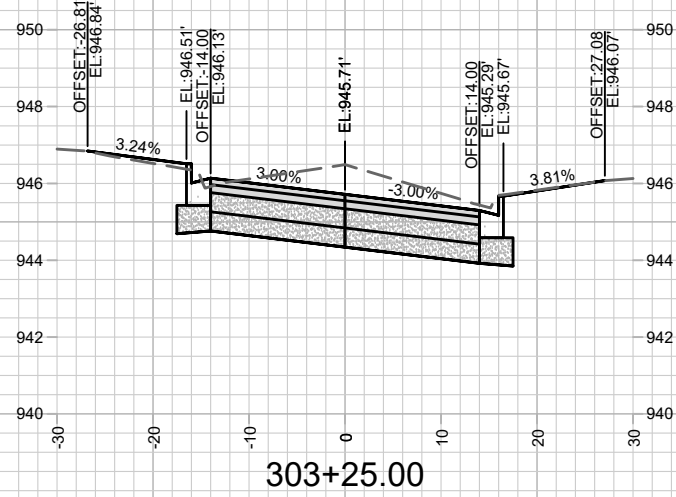
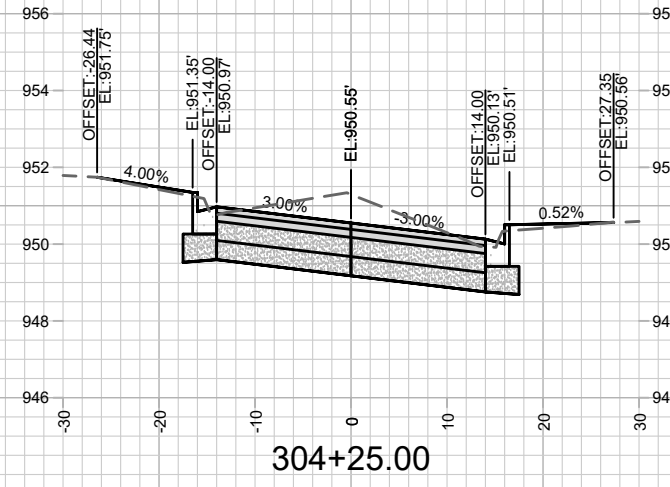
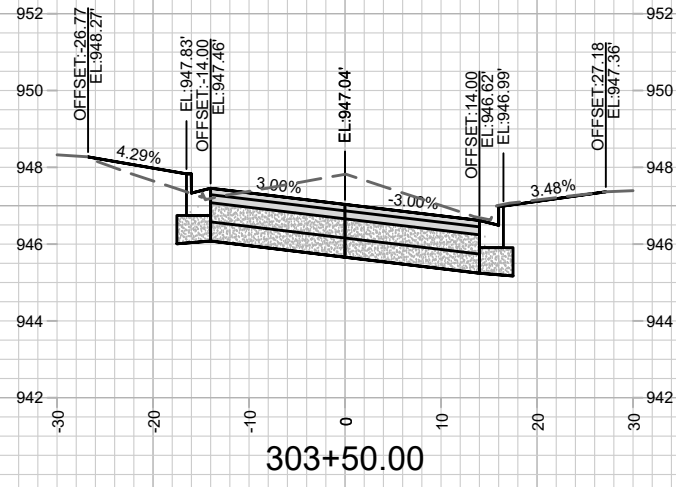
Mineral Point Rd



Callout	Description
1	Pavement Marking Epoxy, 4-Inch Double Yellow
2	Pavement Marking Epoxy, Crosswalk, 6-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch

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





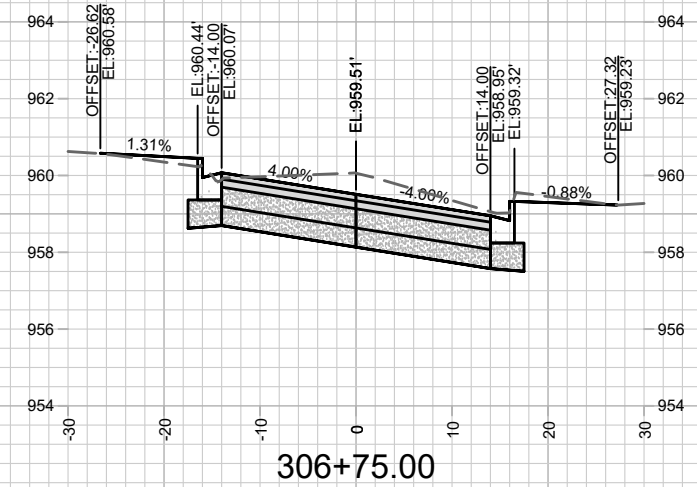
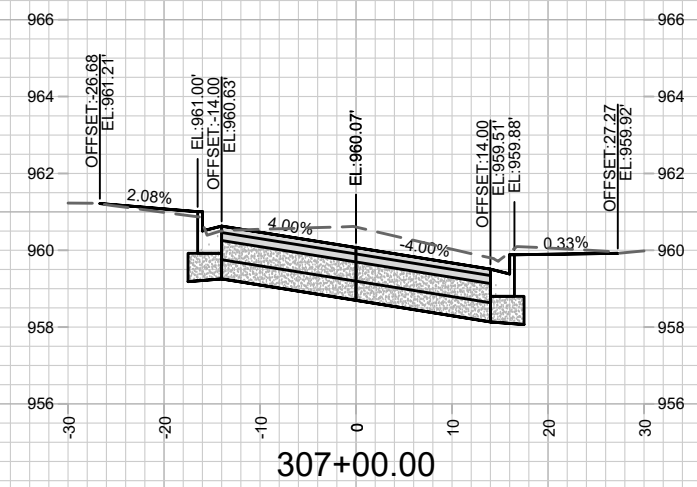
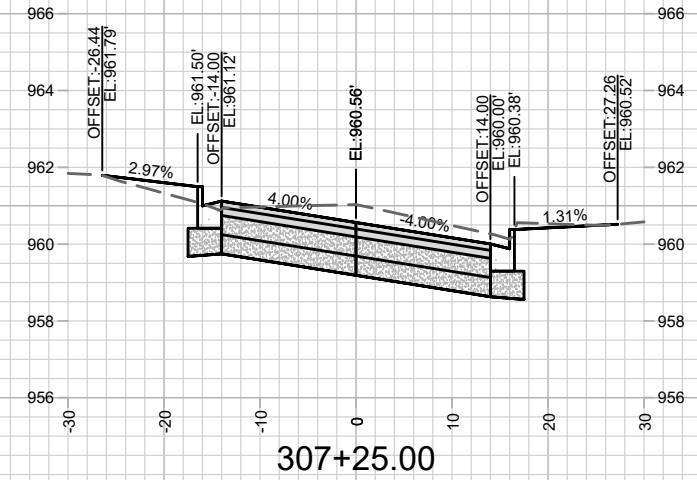
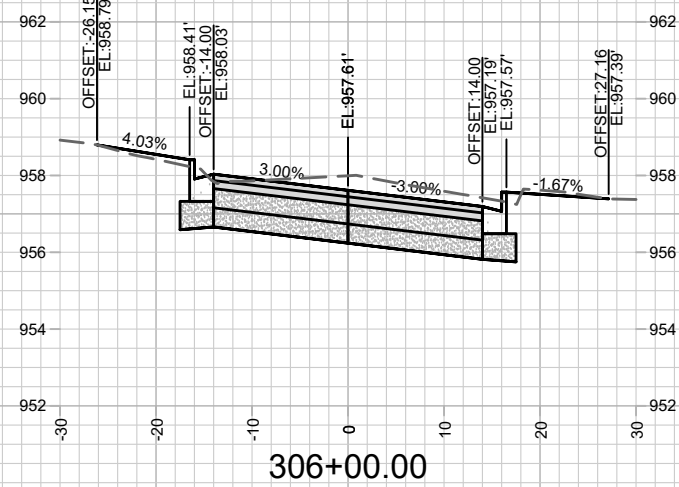
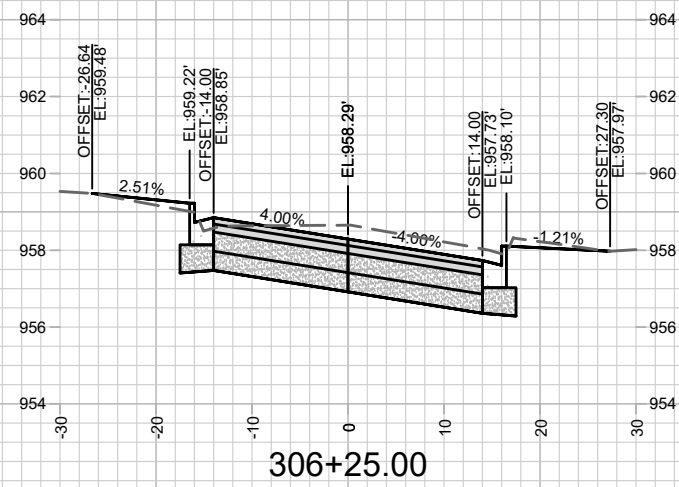
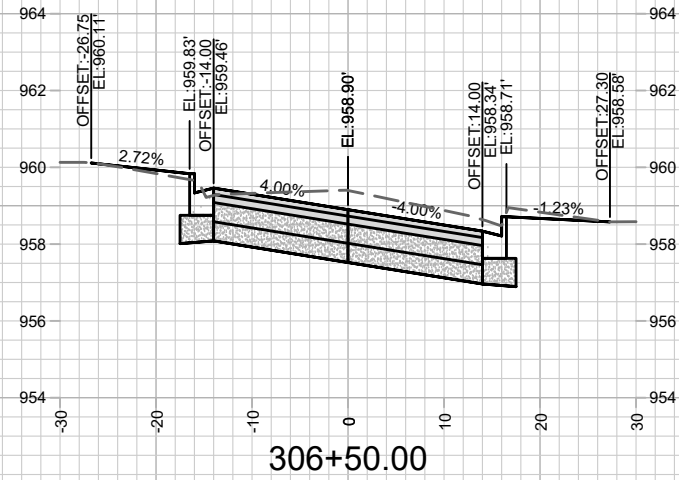
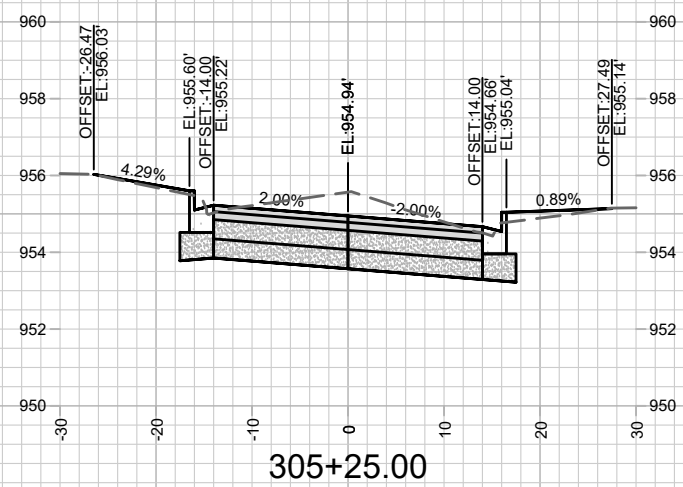
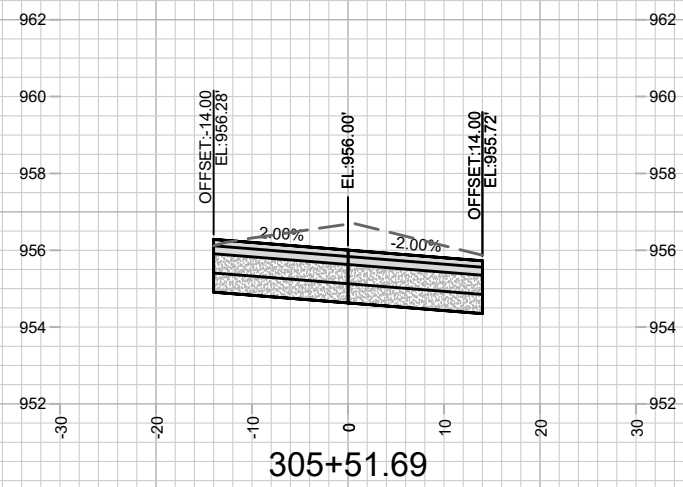
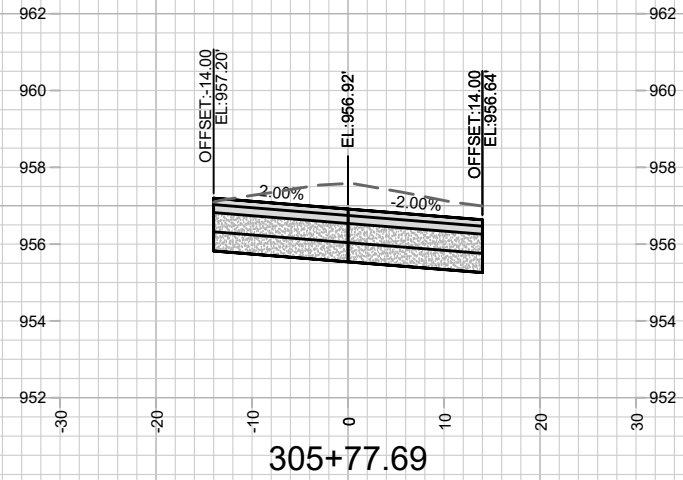
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REVISION	DATE
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DESIGNED BY: ###	DATE: 3/16/2020 6:33 PM
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11744  
MADISON, WI  
8306  
CONTRACT NO:

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Designed By: ##	11744	Date: 3/16/2020 6:33 PM	Scale: 1" = 20'

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TOEPPER AVE  
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CONTRACT NO: 8306

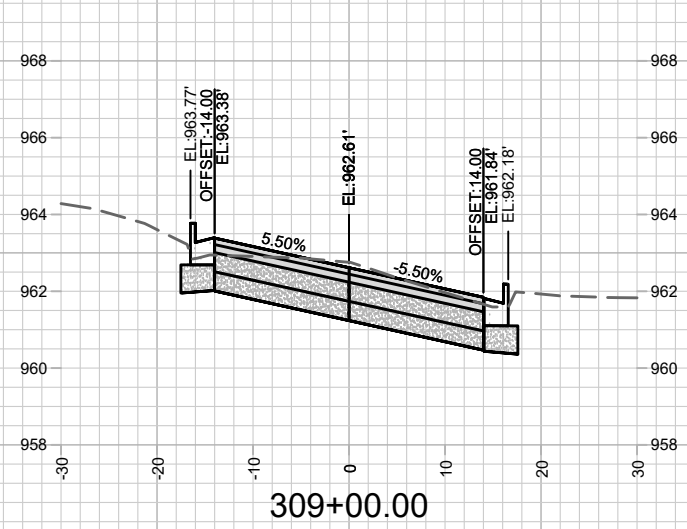
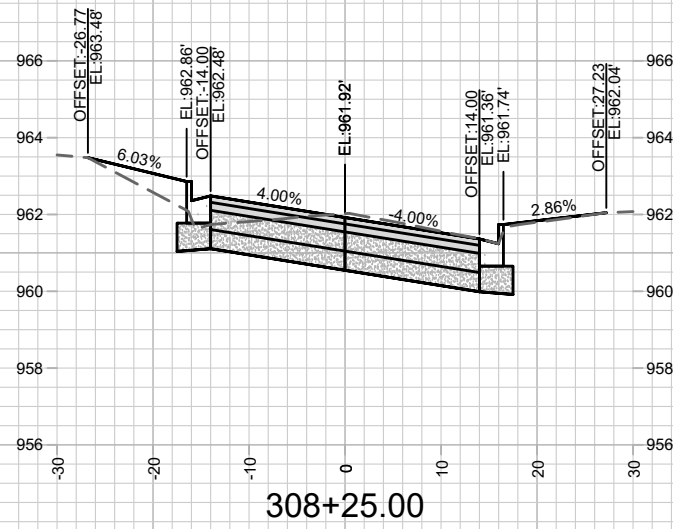
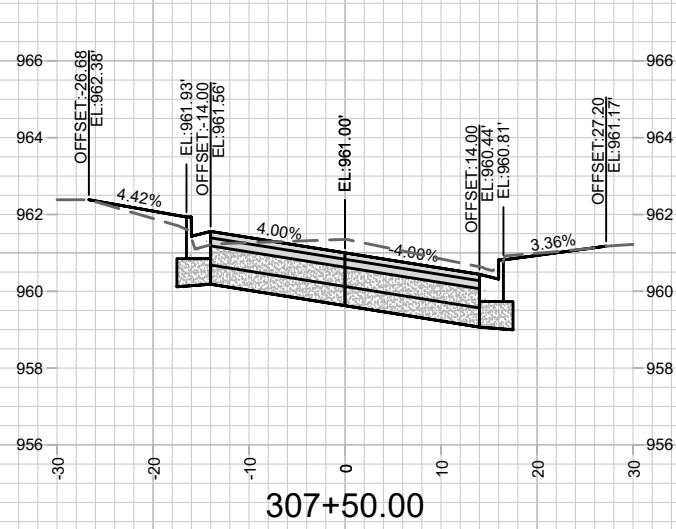
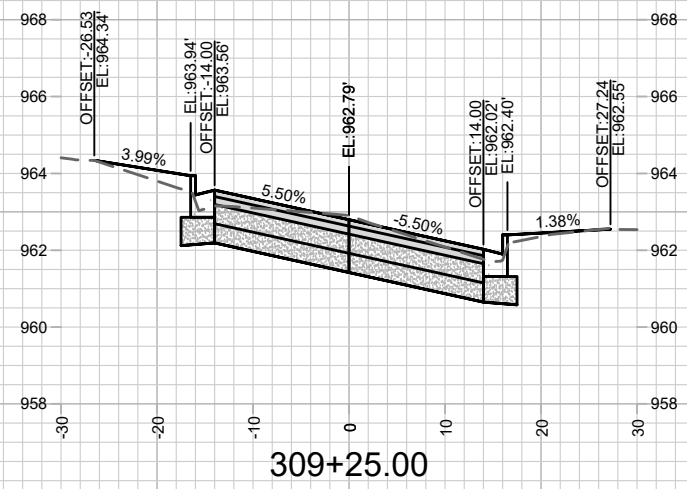
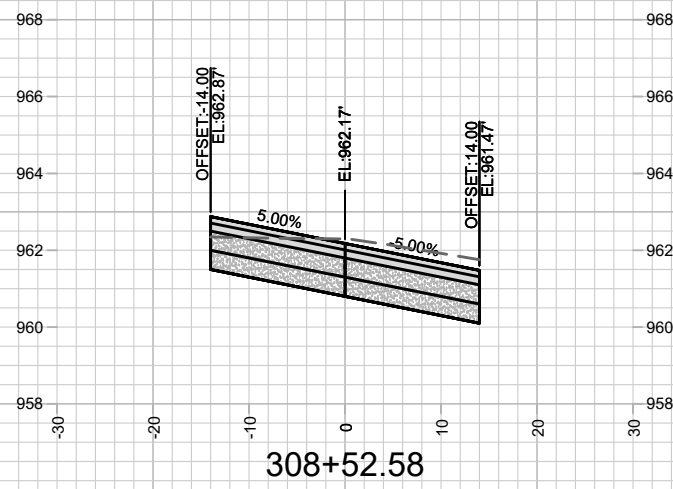
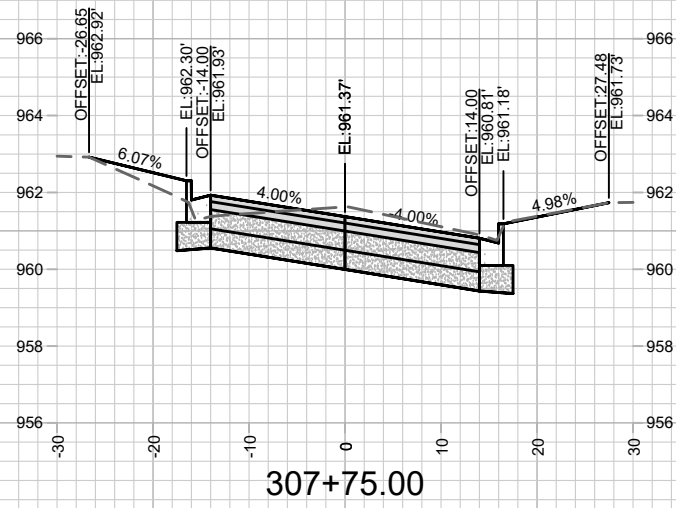
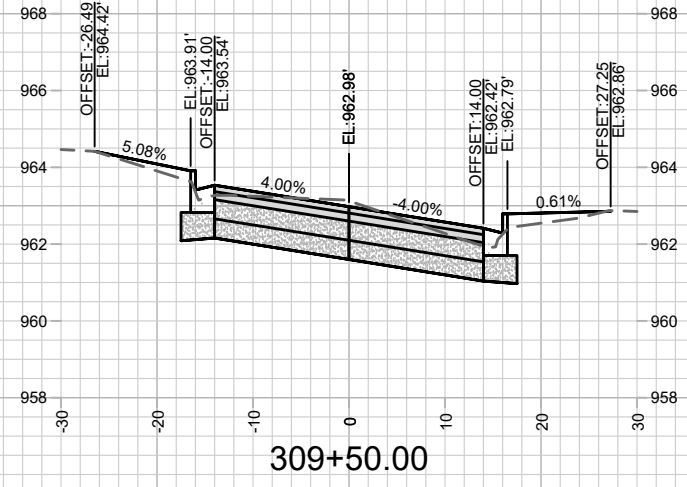
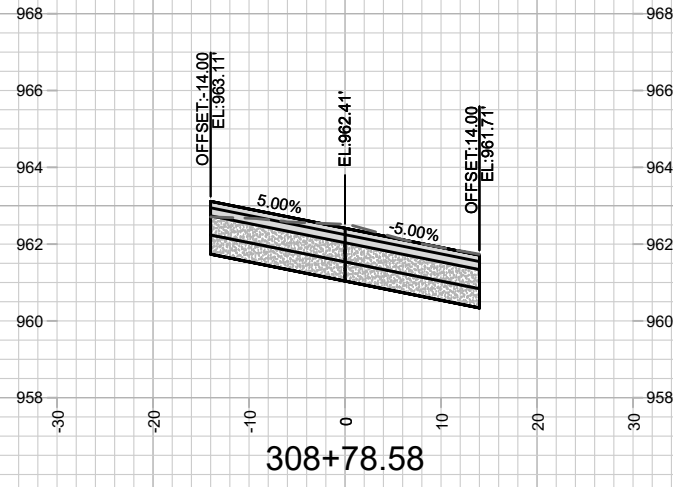
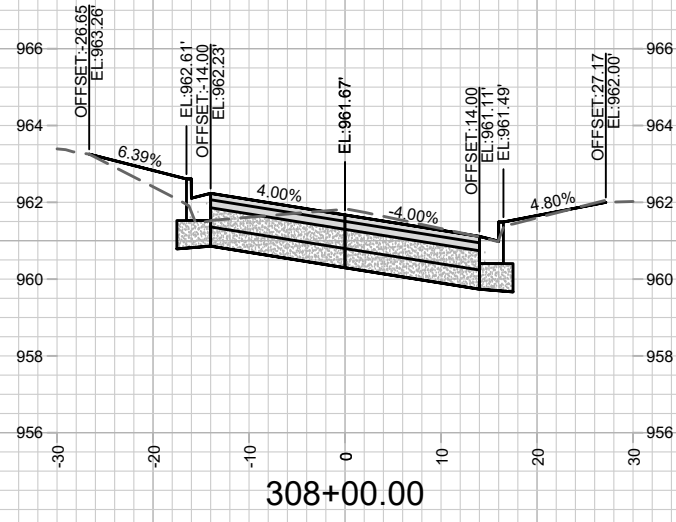
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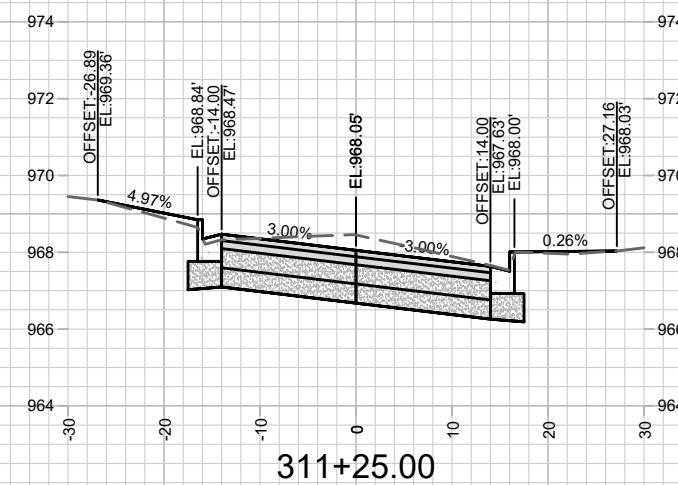
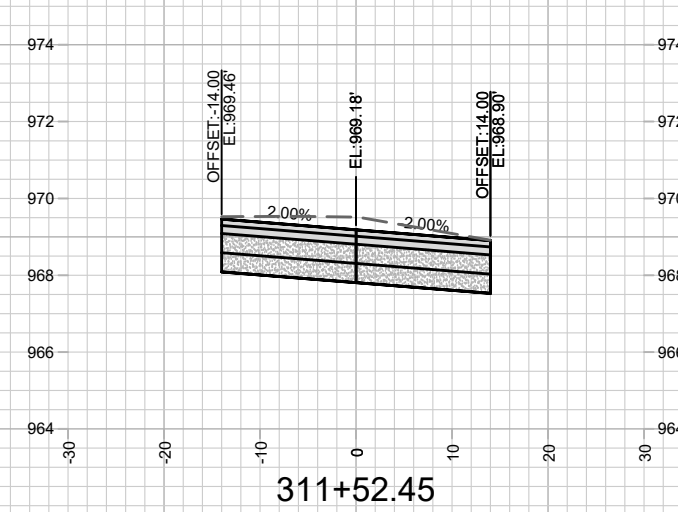
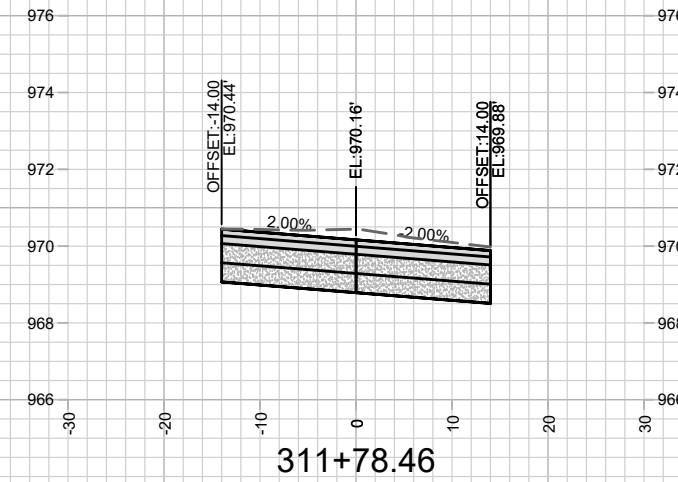
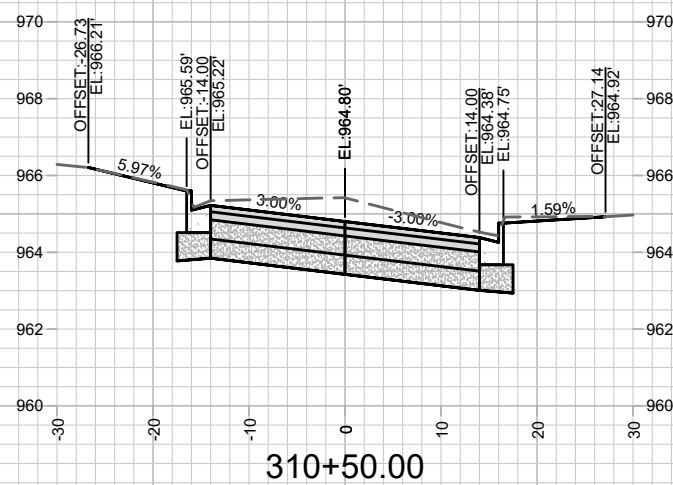
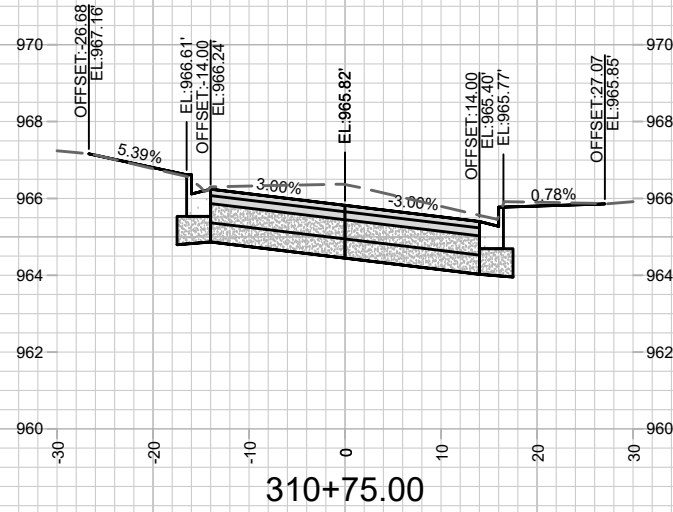
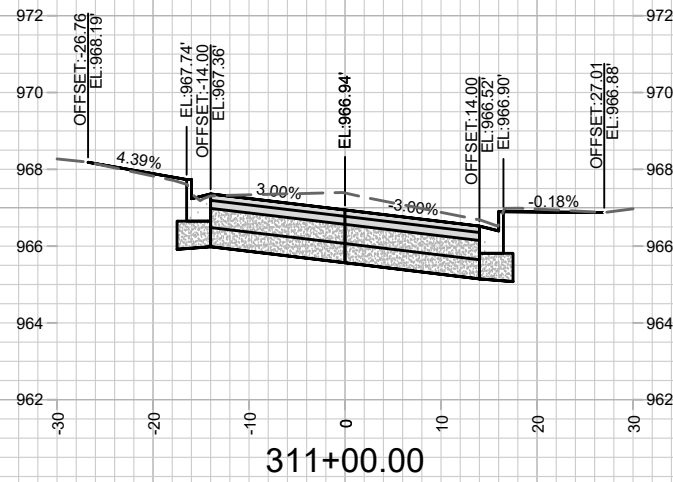
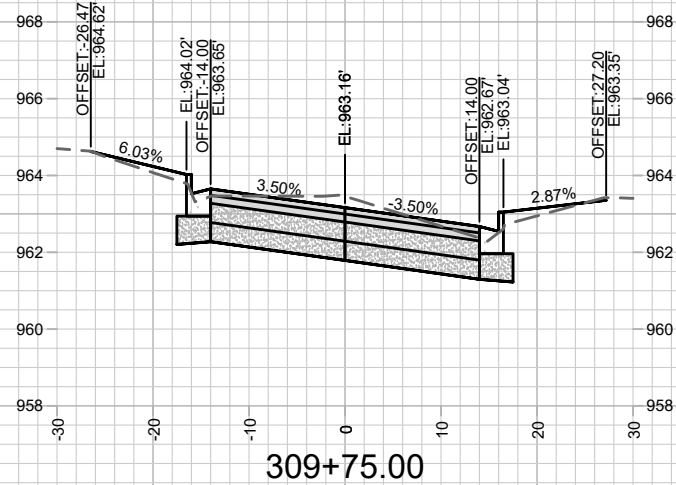
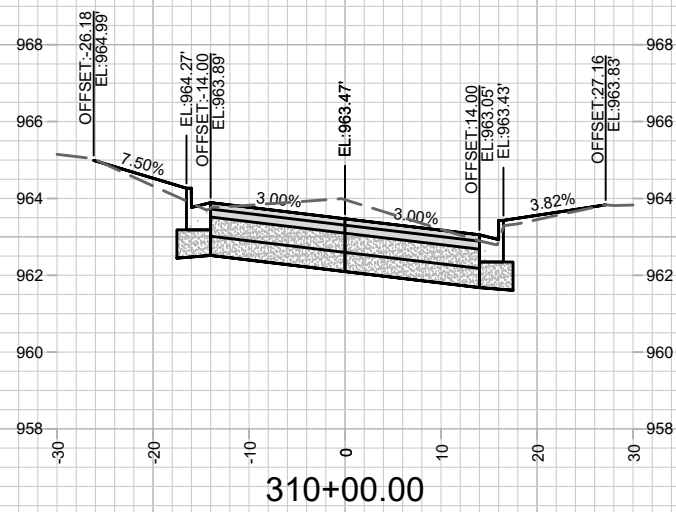
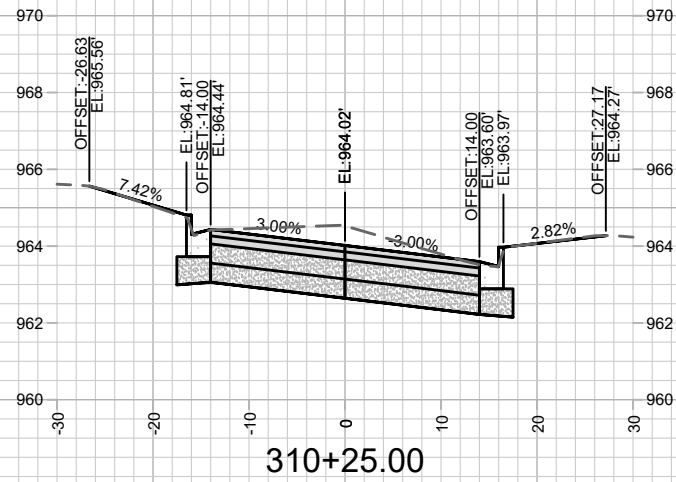
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Date: 3/16/2020 6:33 PM  
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MADISON, WI  
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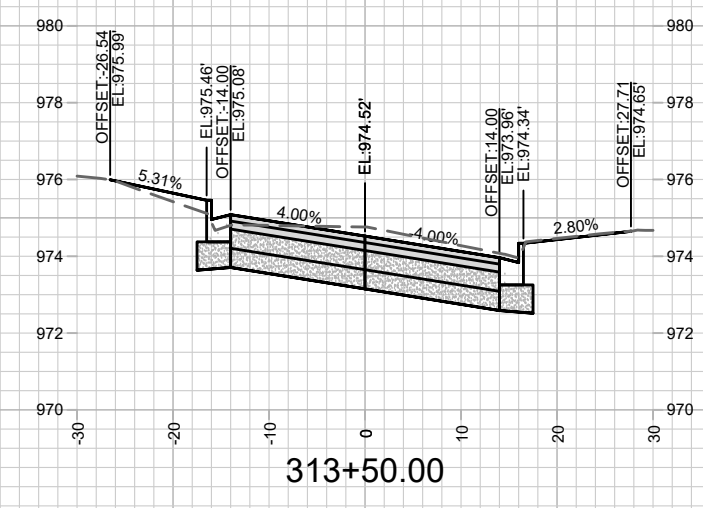
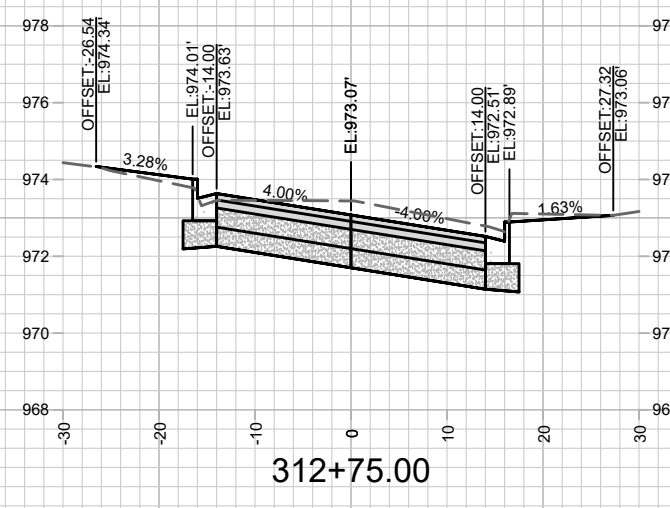
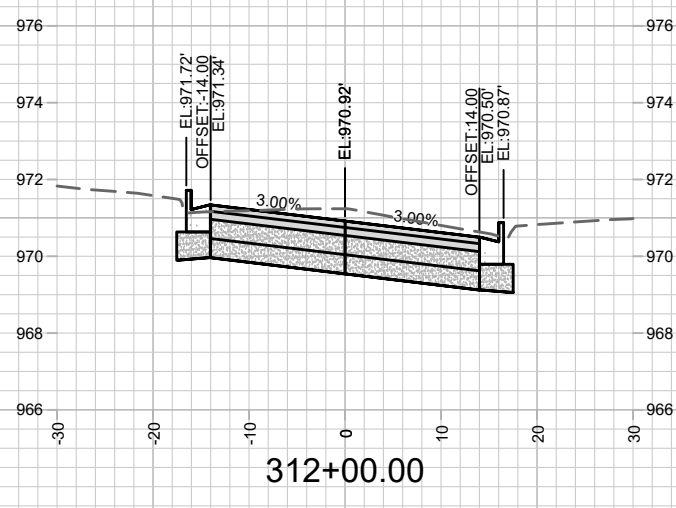
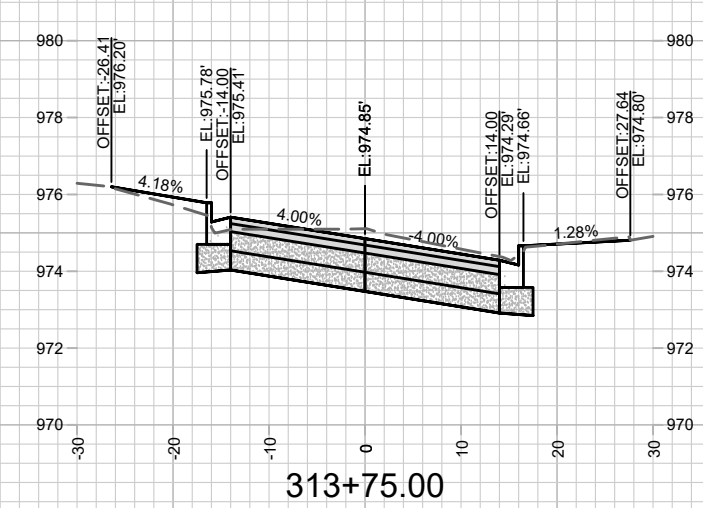
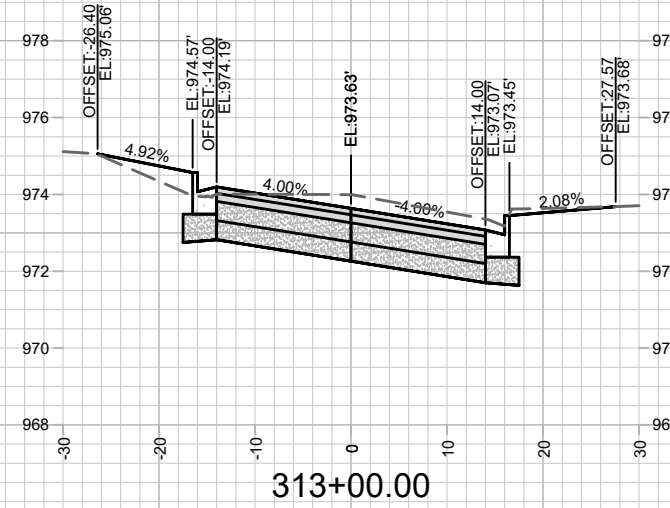
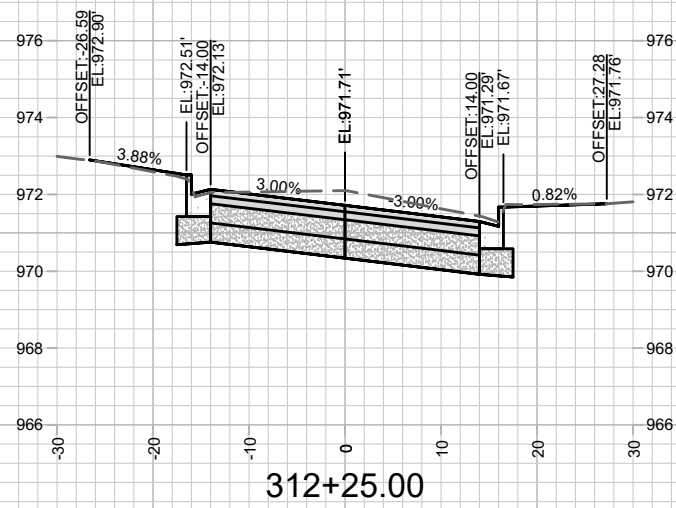
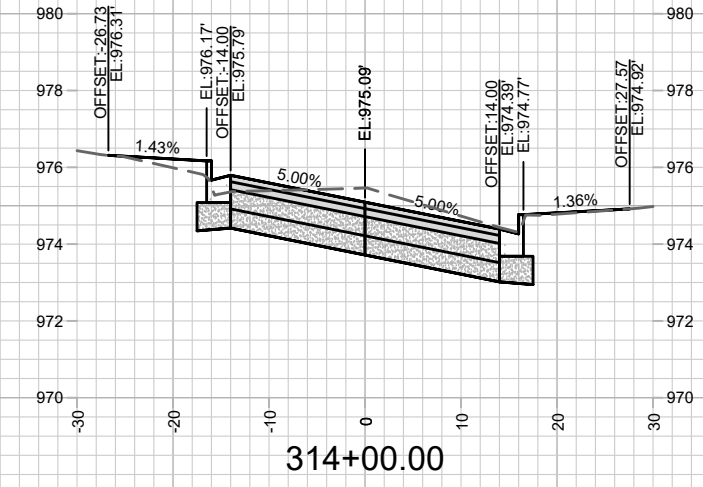
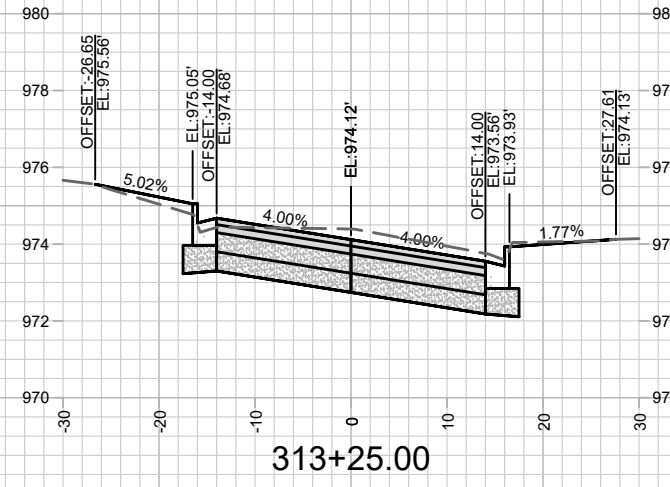
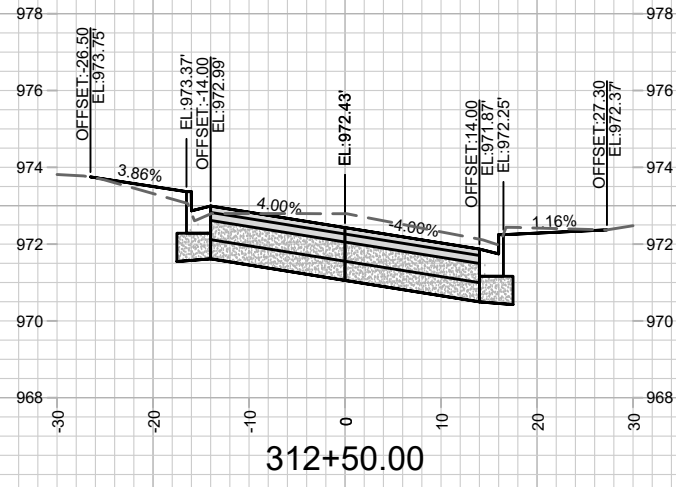
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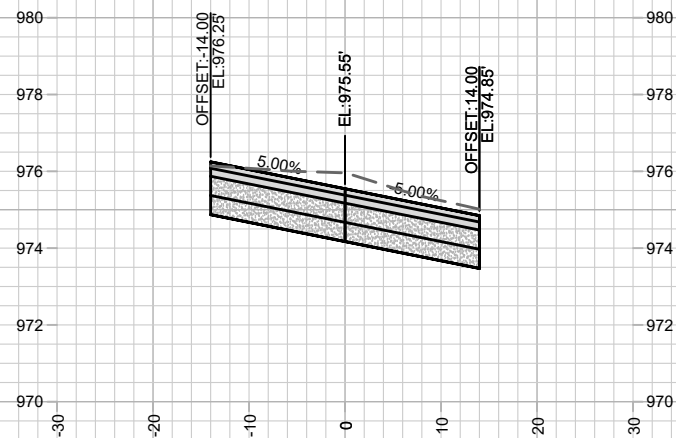
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MADISON, WI  
8306  
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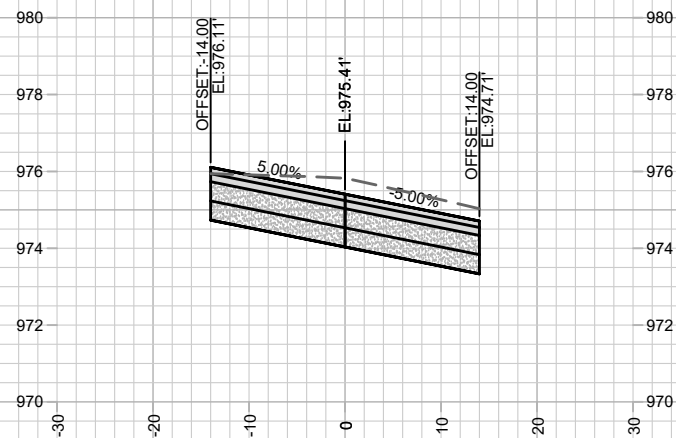


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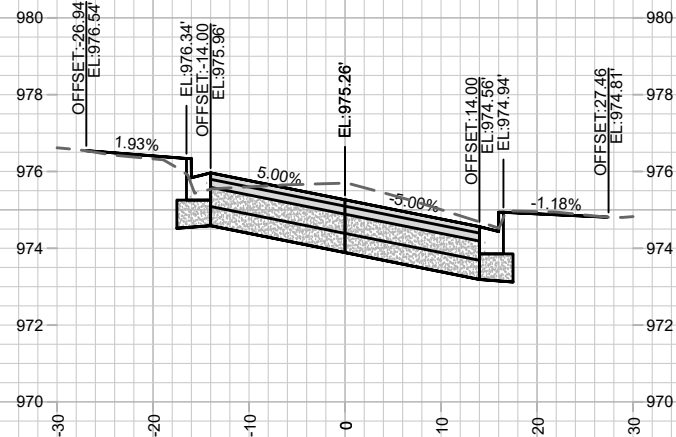
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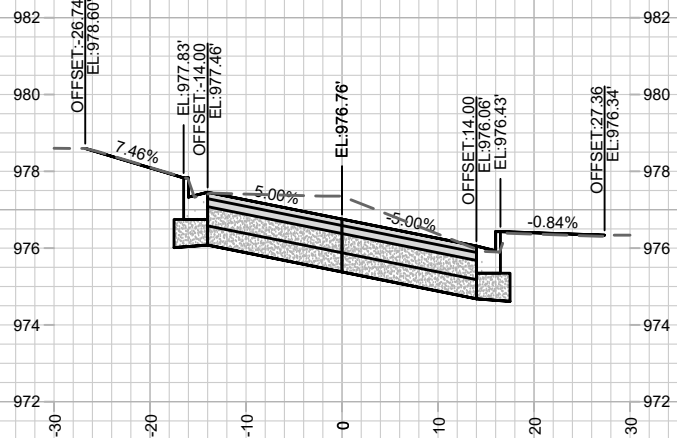
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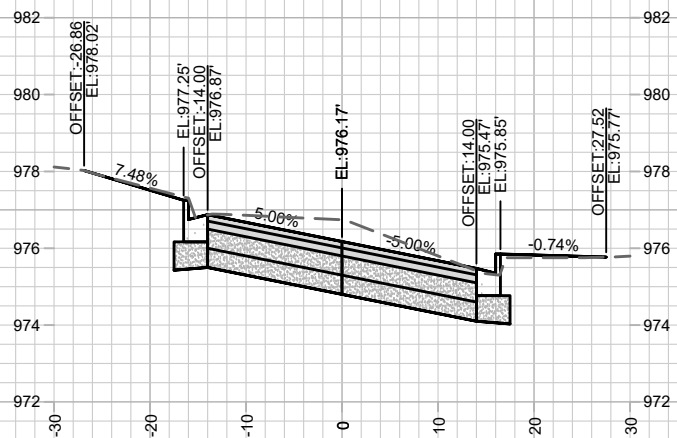
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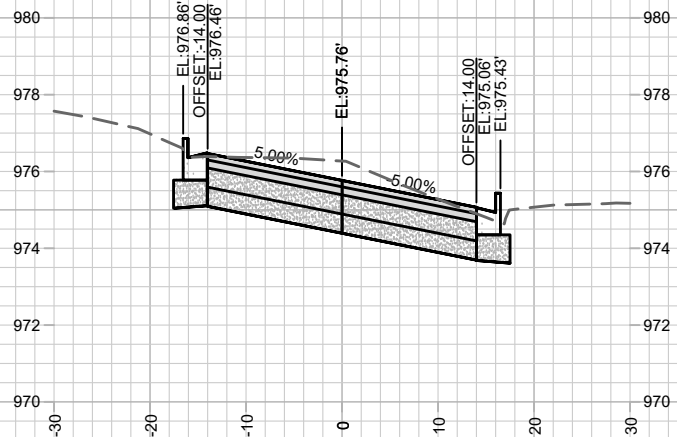
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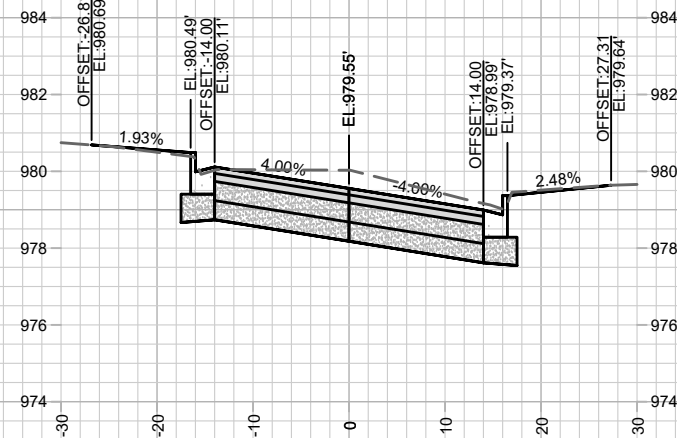
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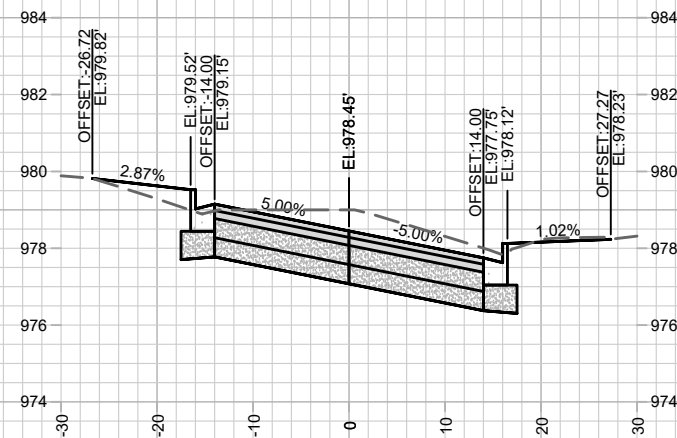
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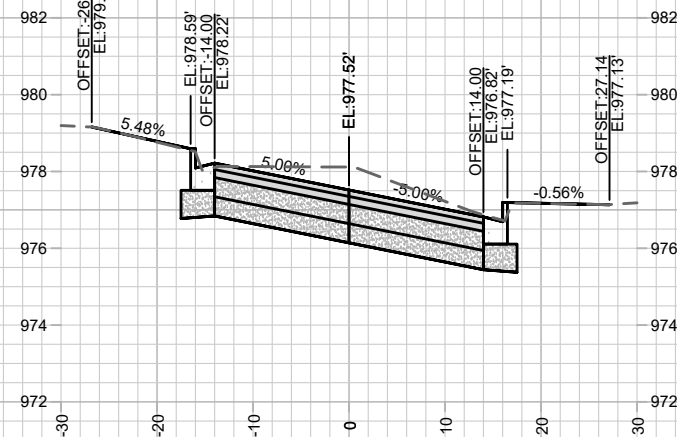
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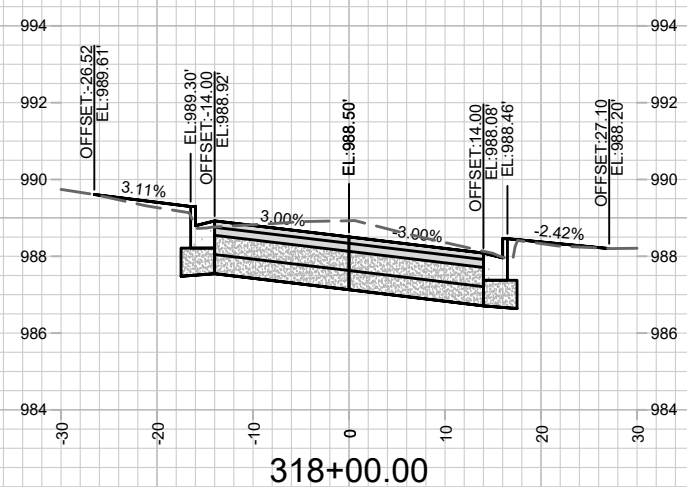
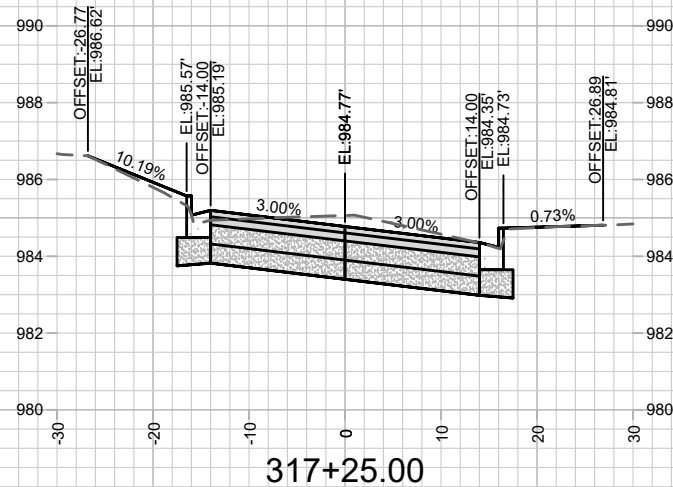
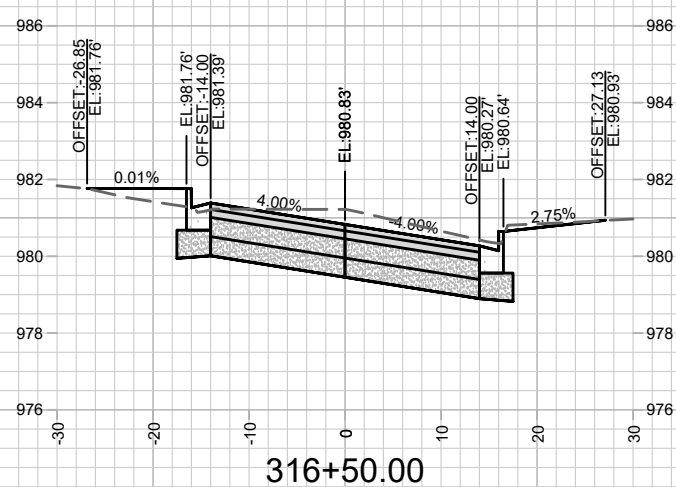
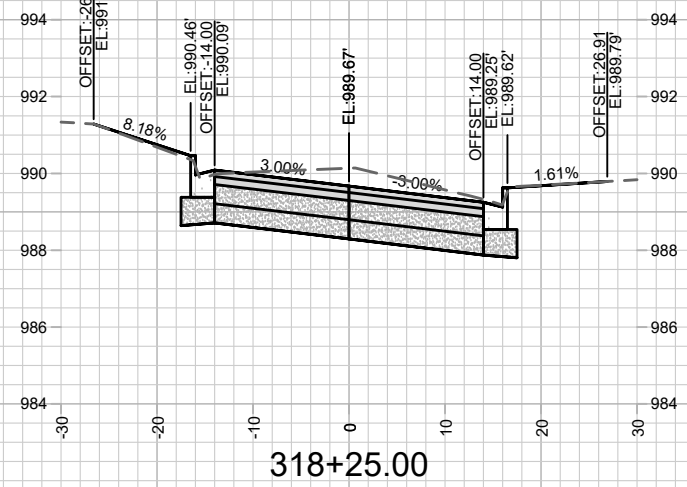
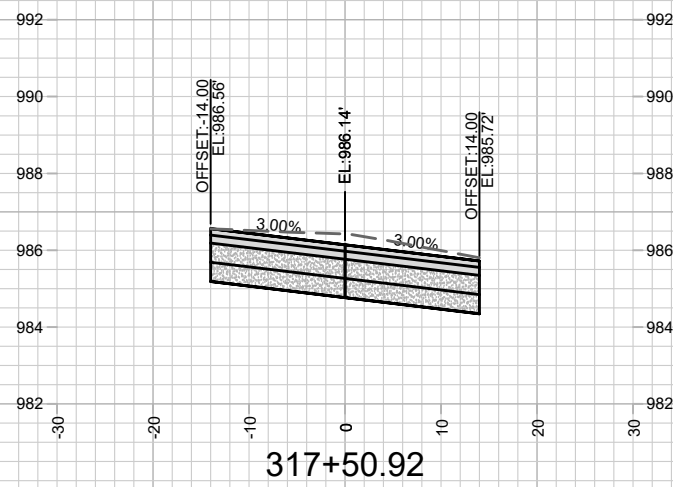
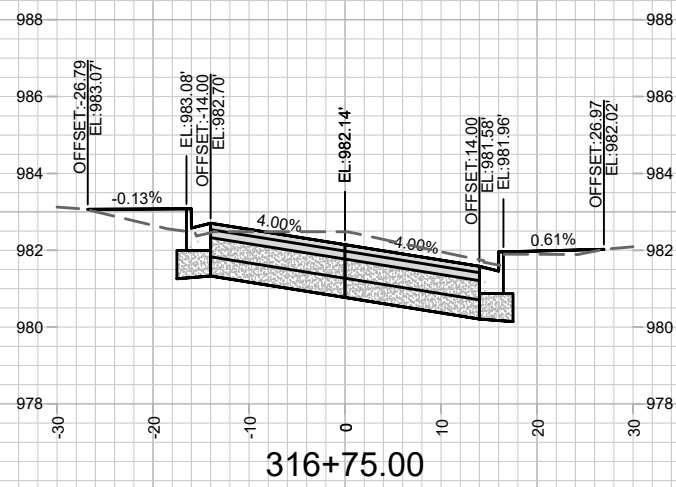
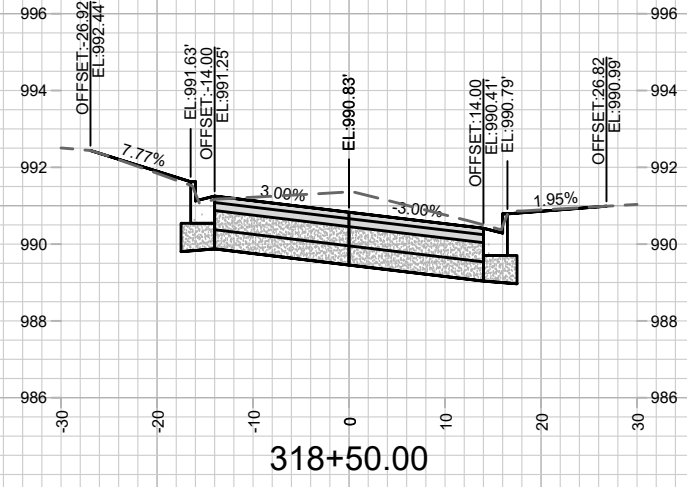
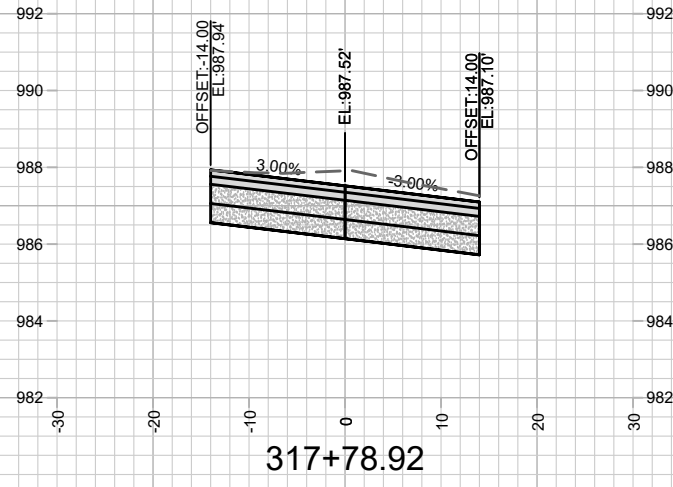
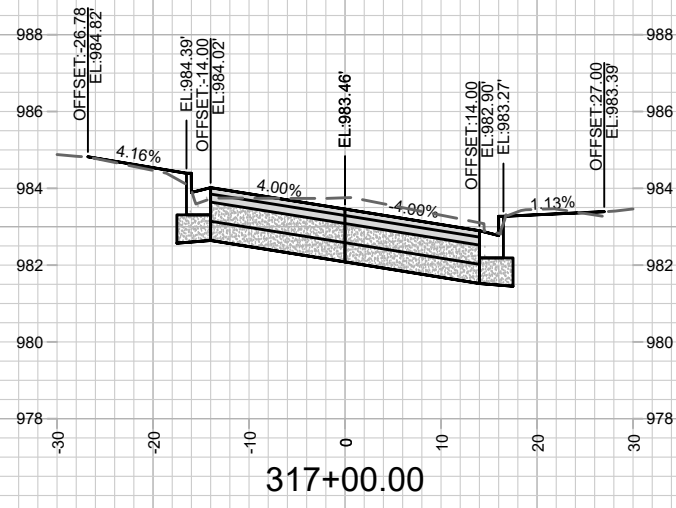


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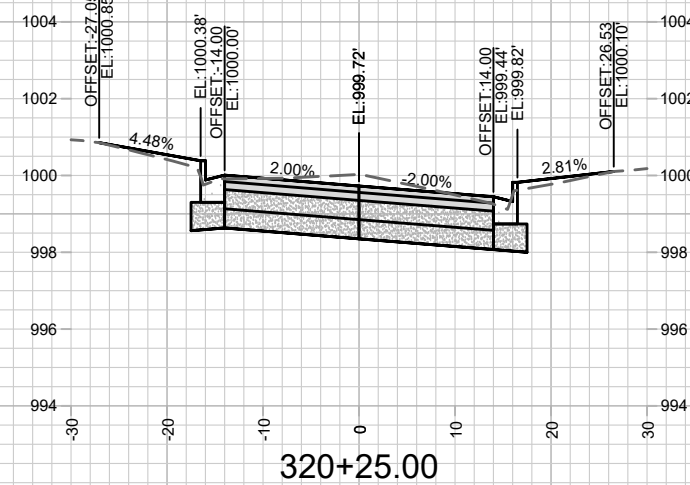
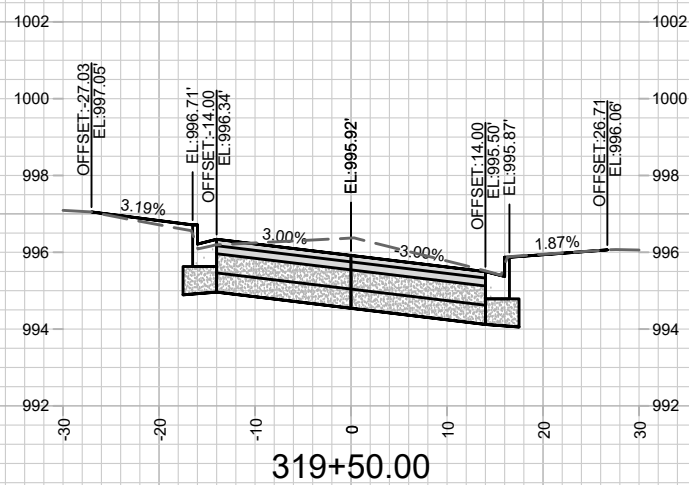
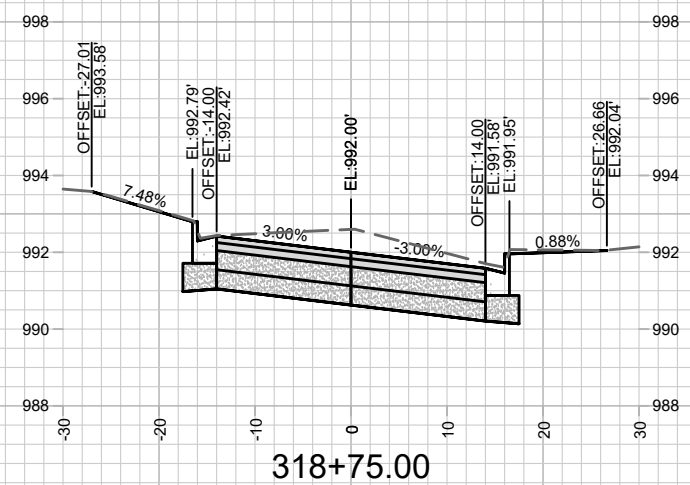
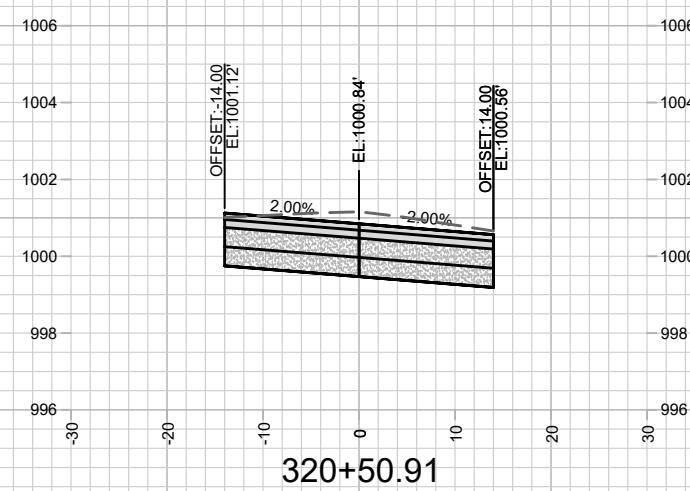
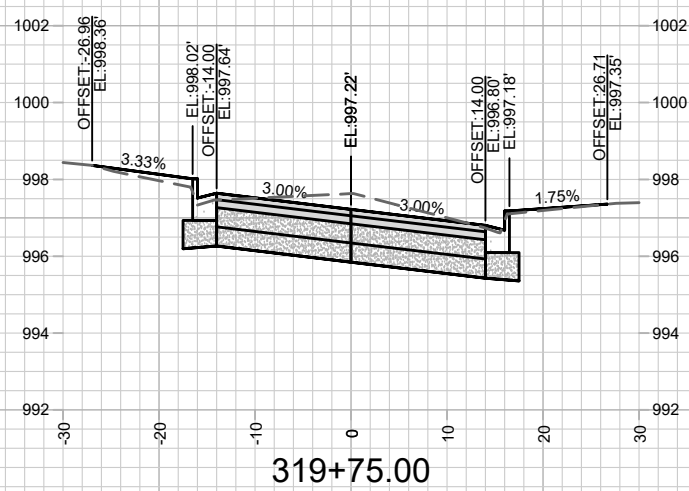
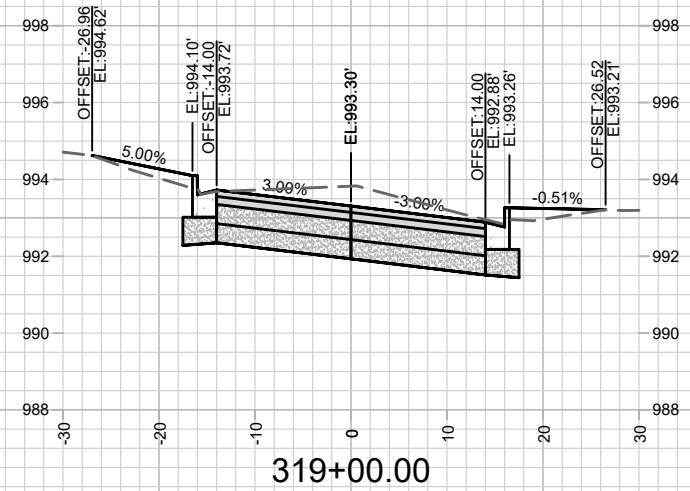
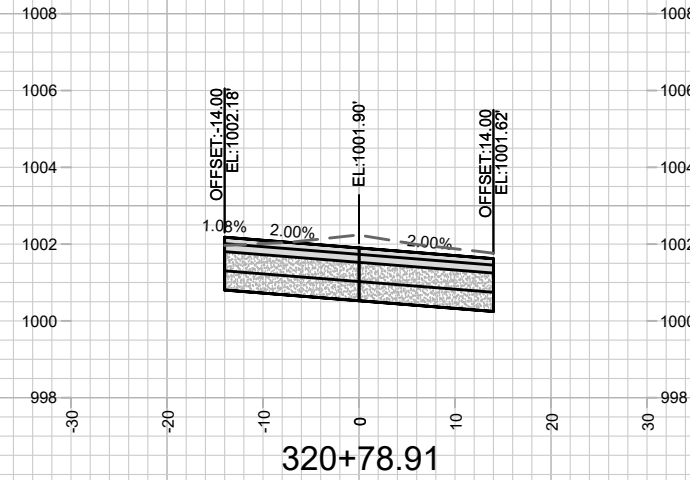
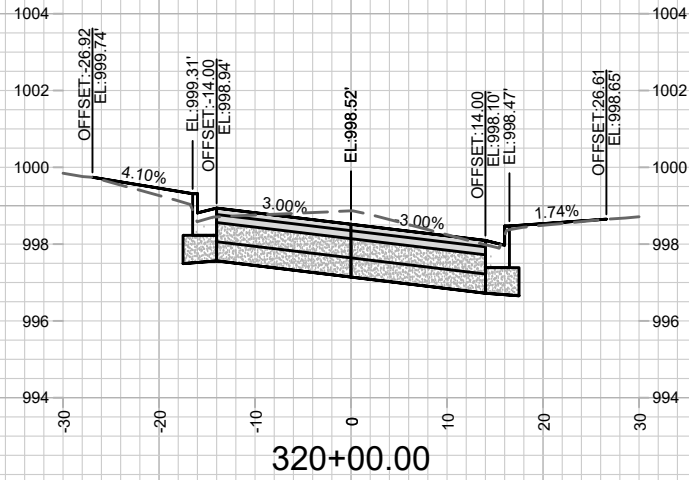
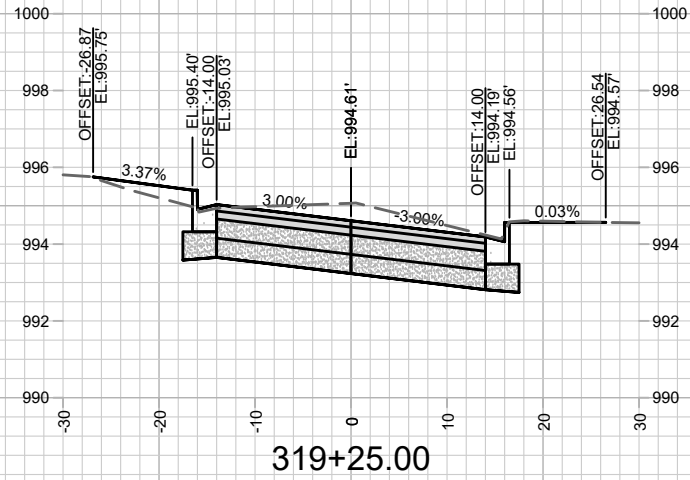
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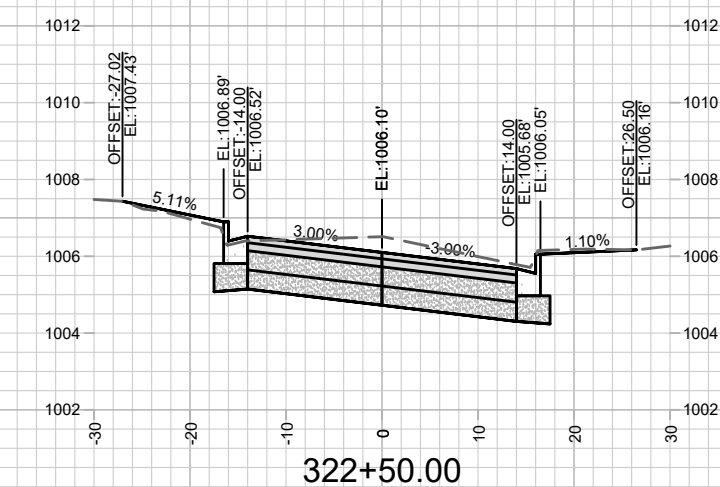
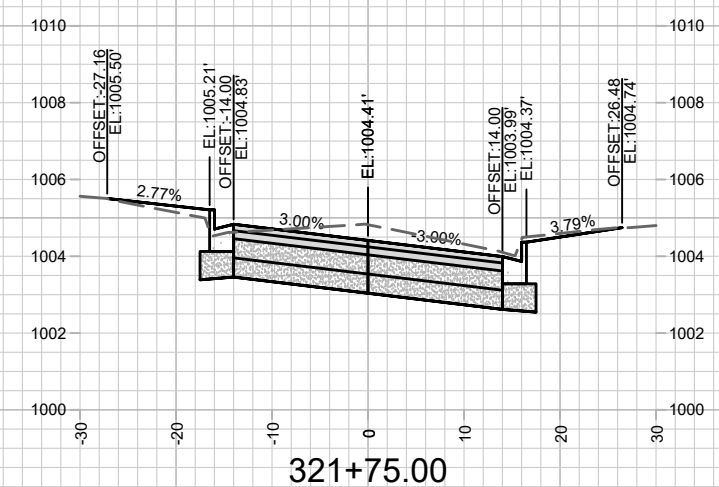
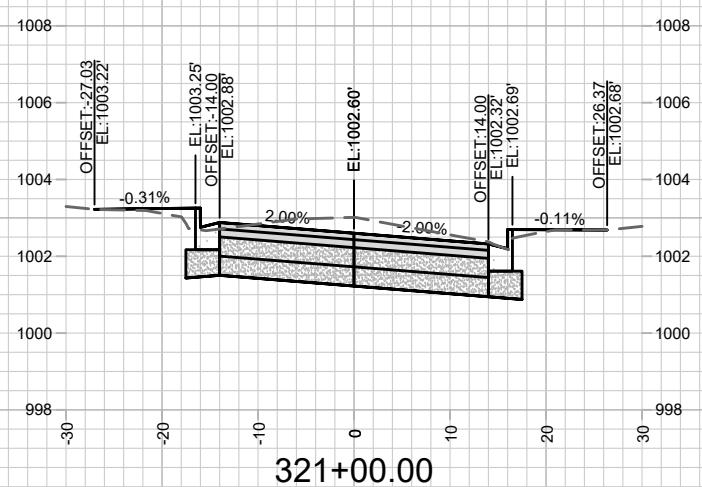
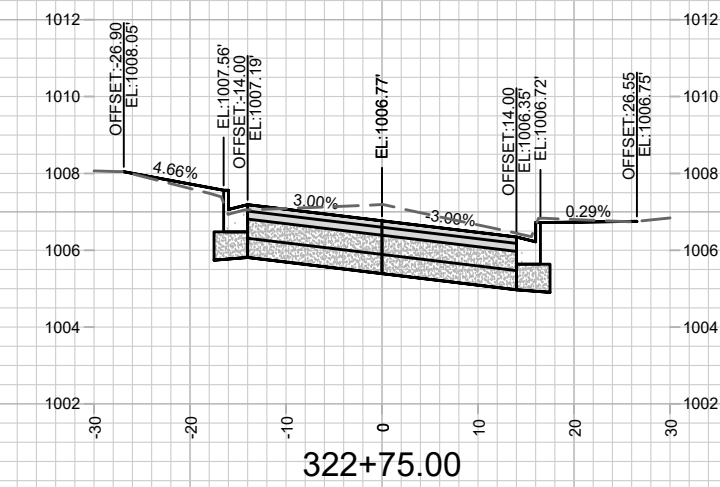
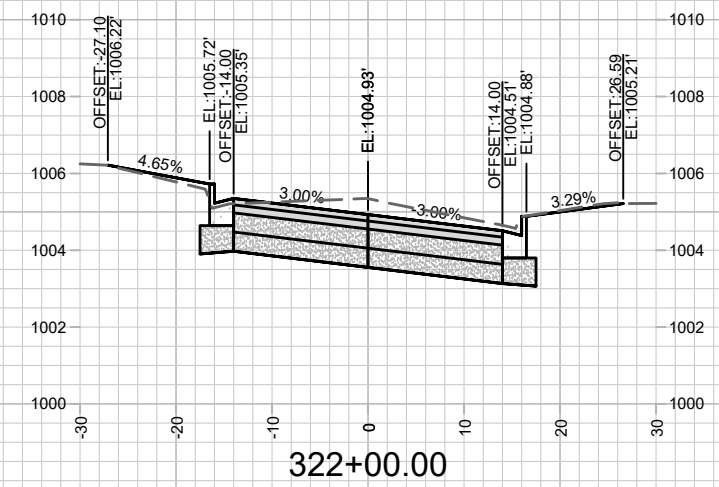
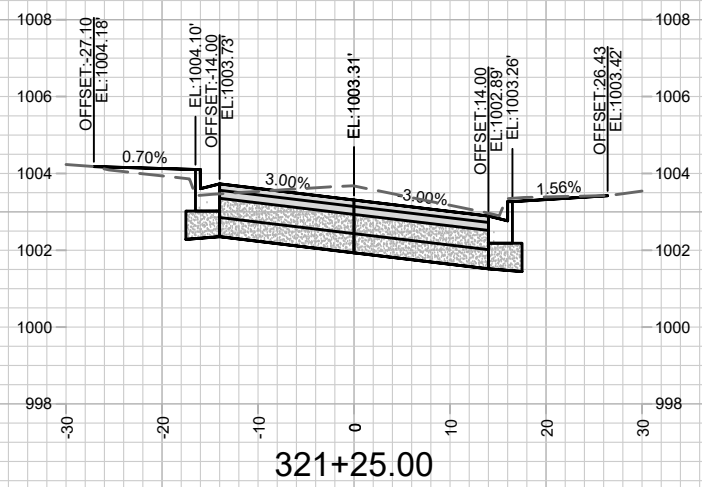
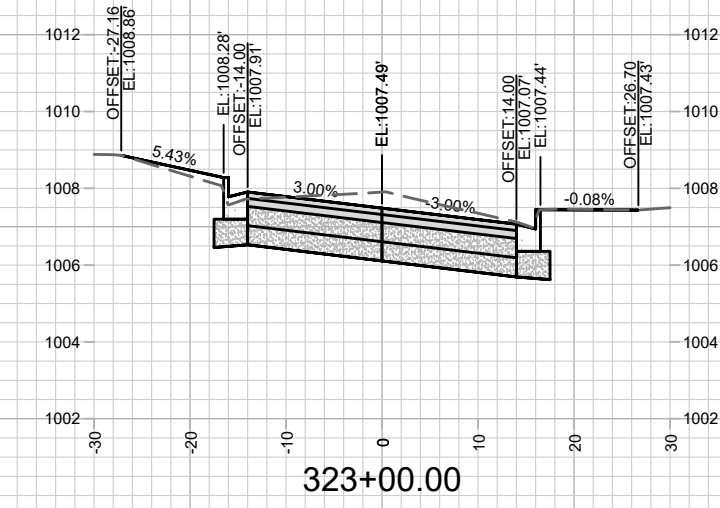
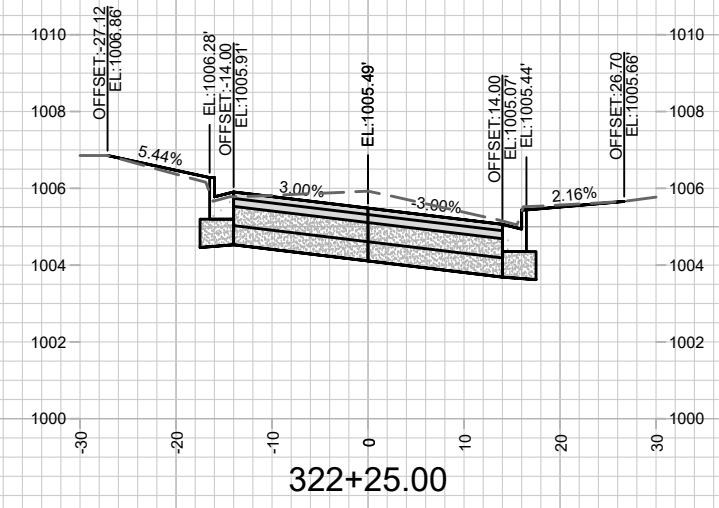
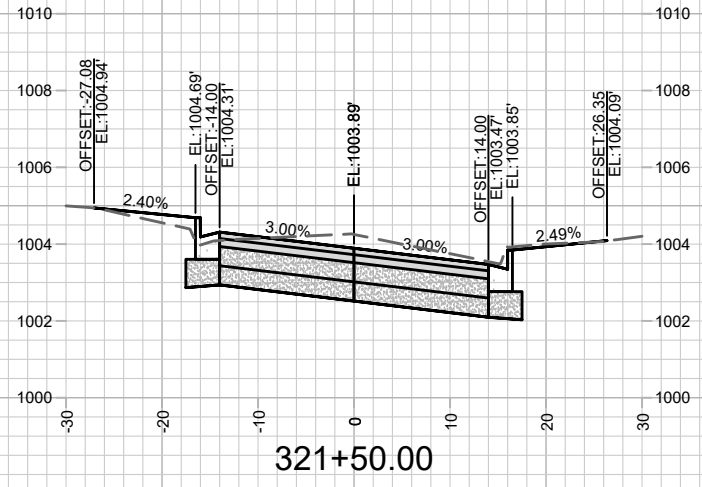


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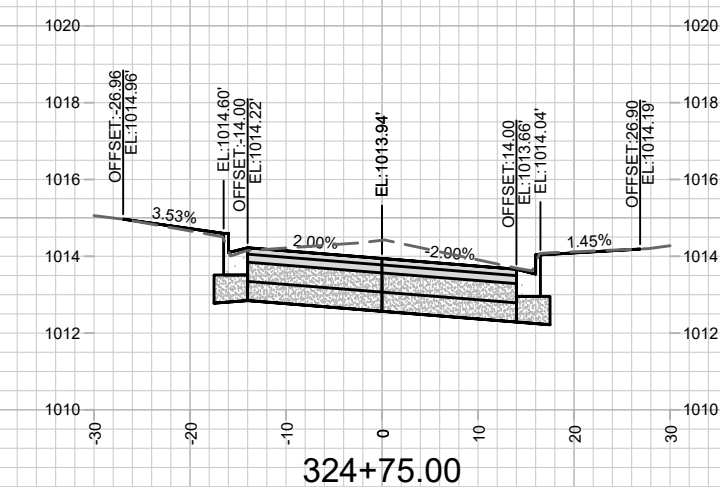
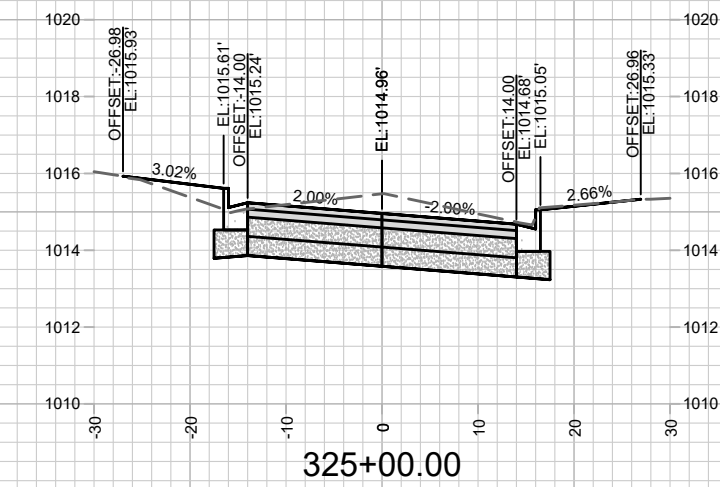
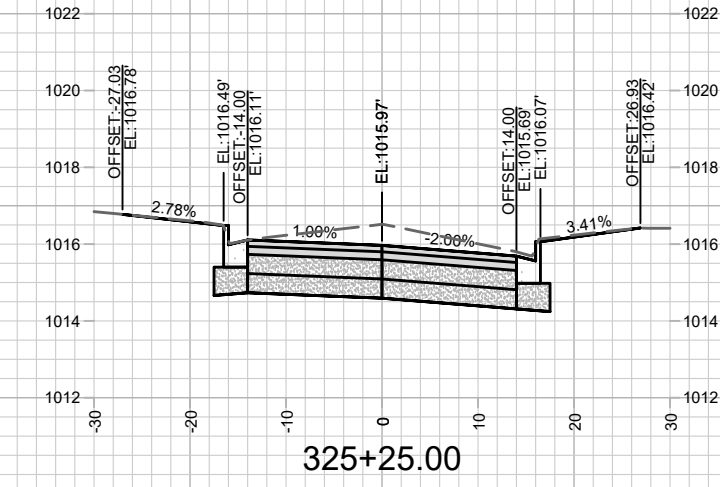
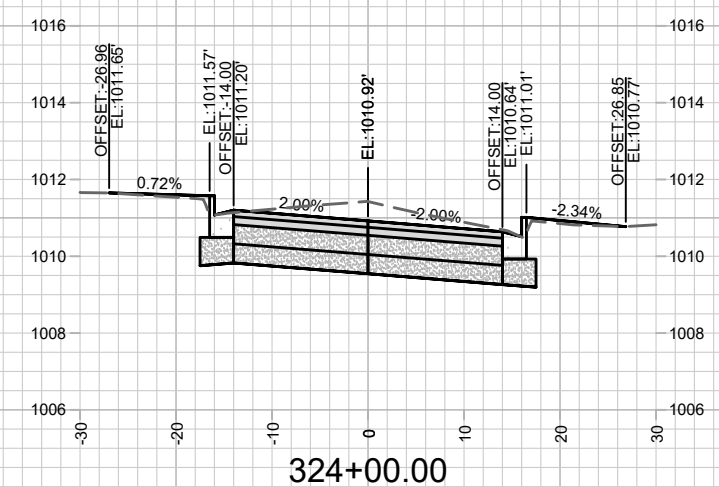
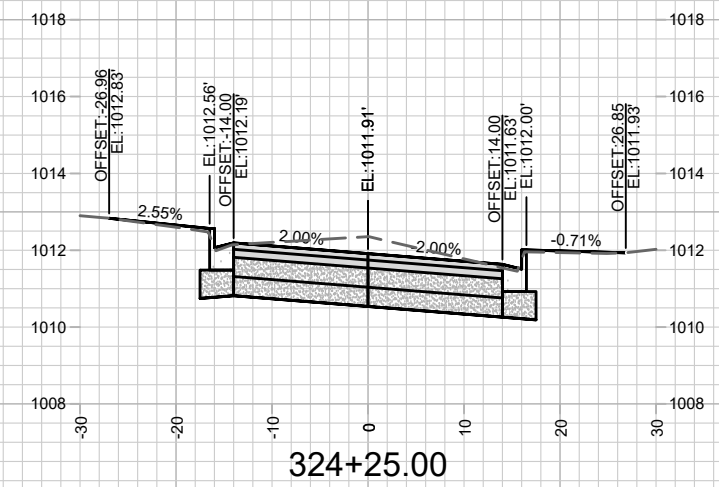
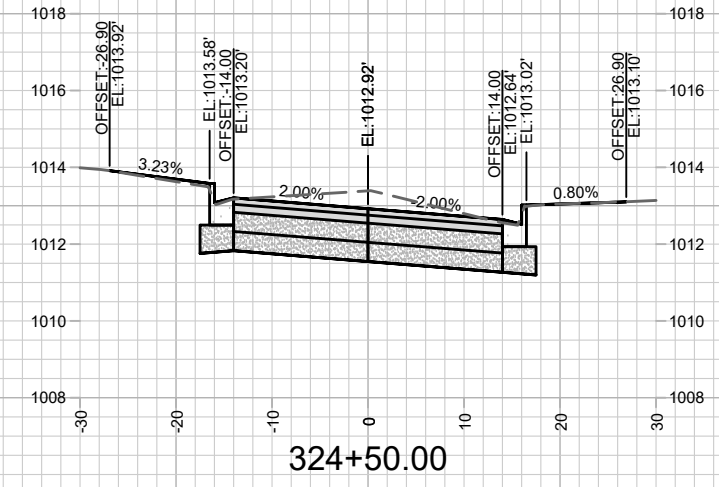
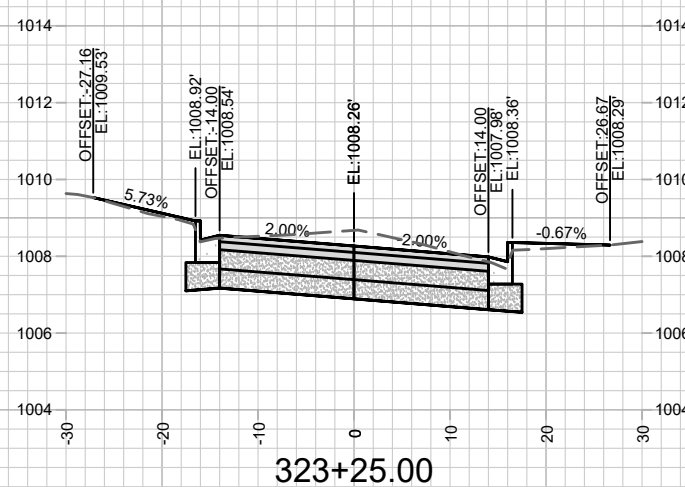
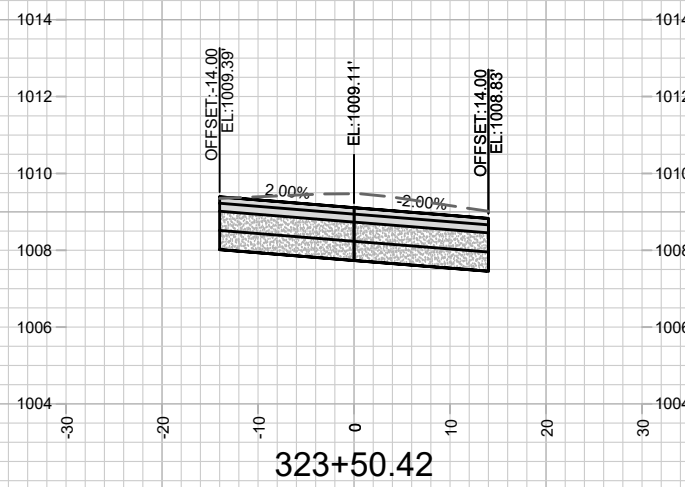
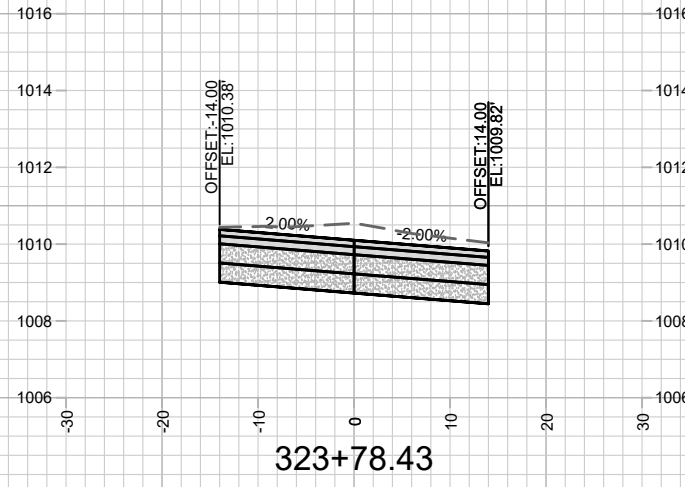
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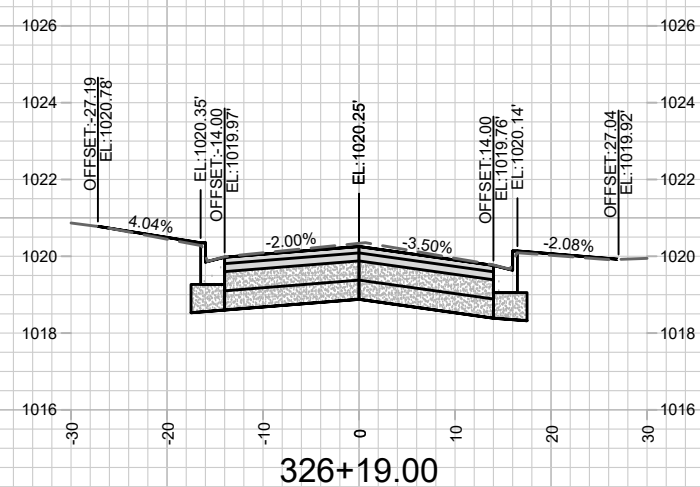
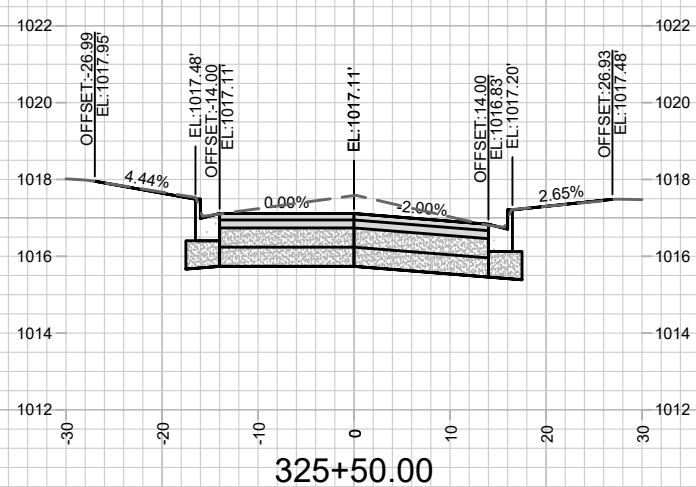
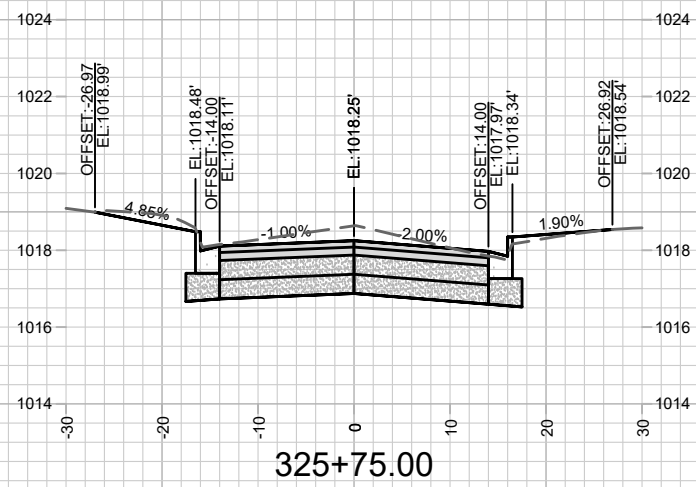
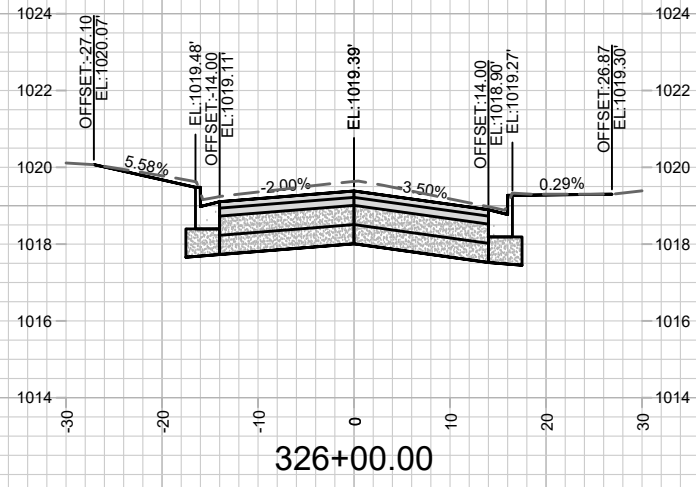
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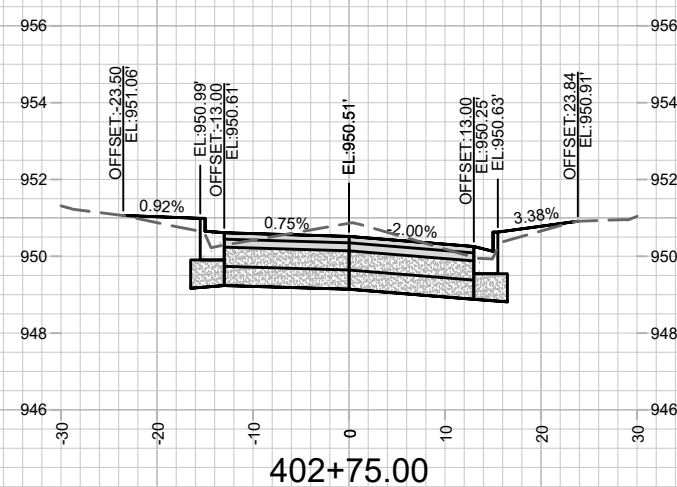
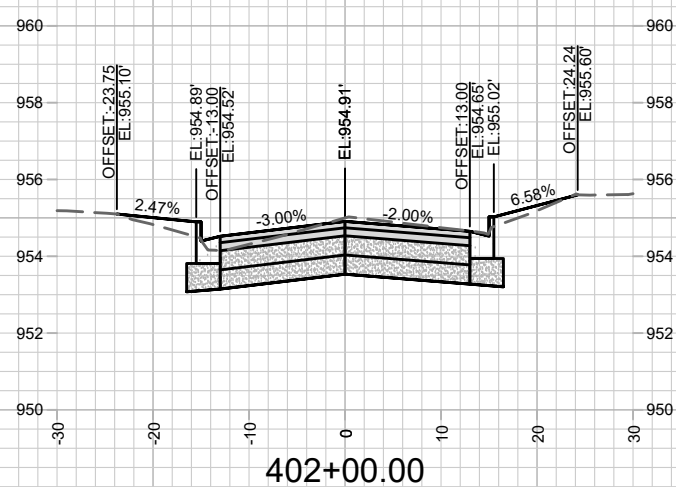
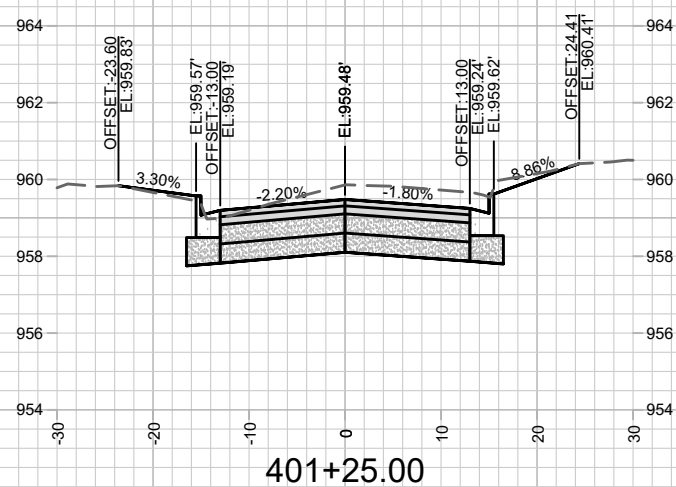
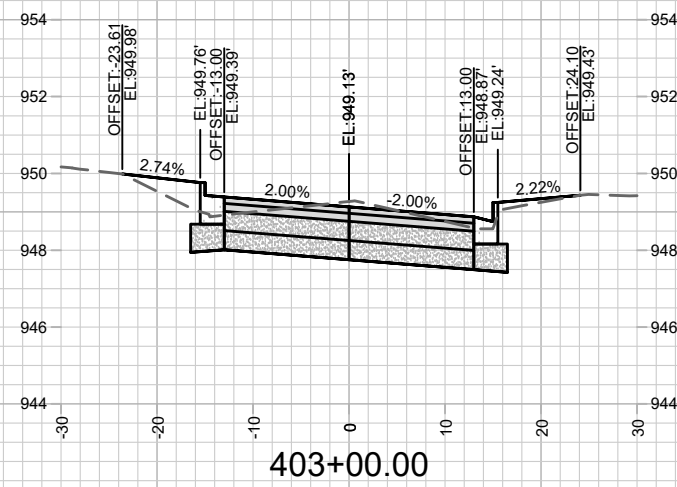
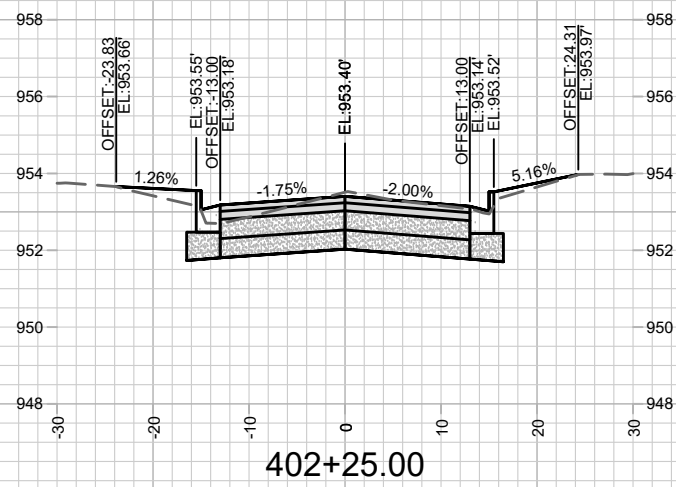
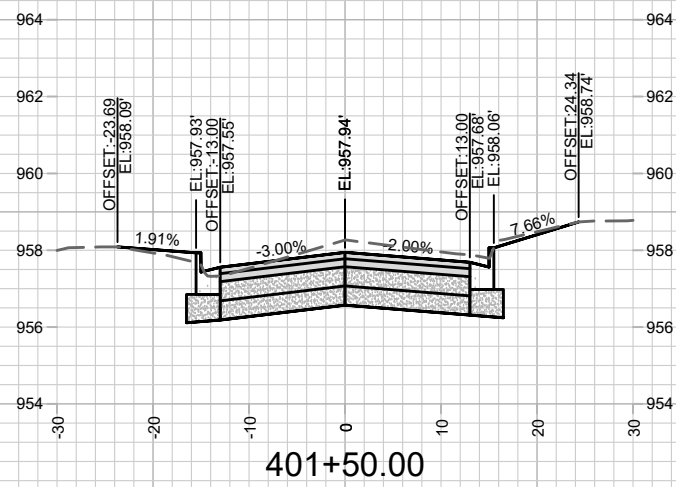
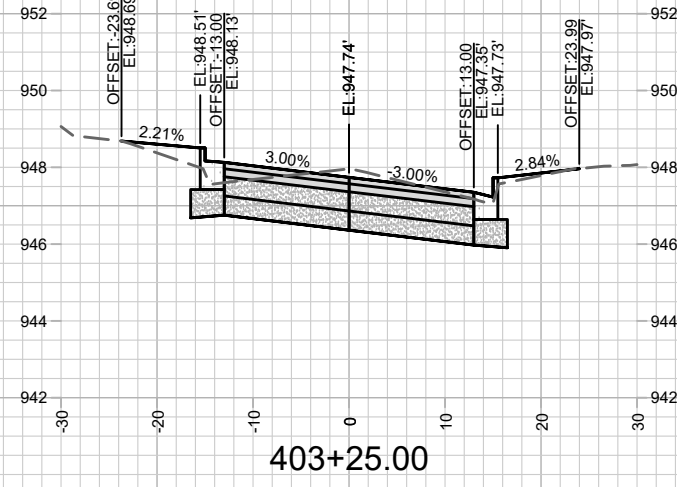
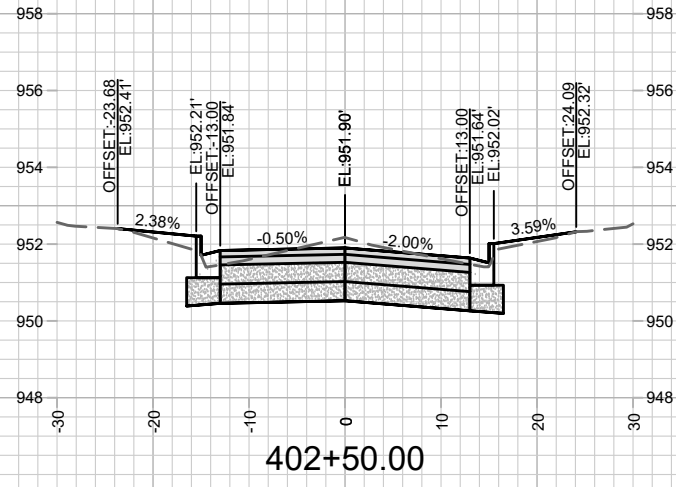
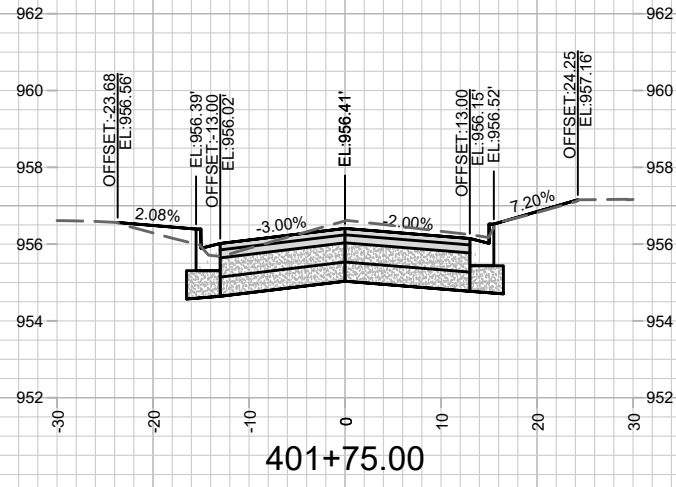
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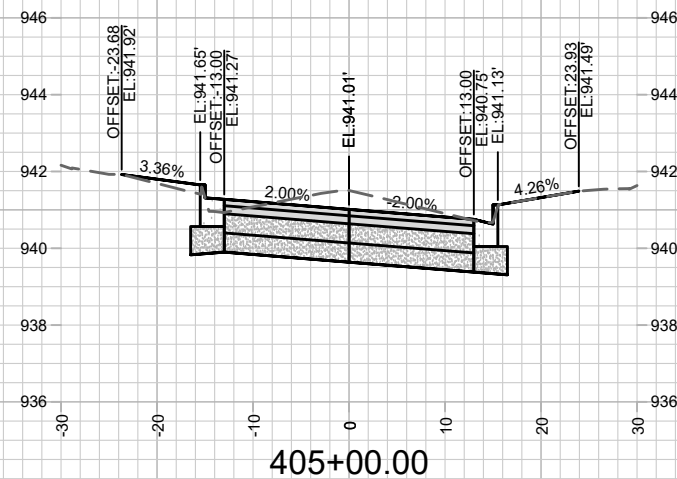
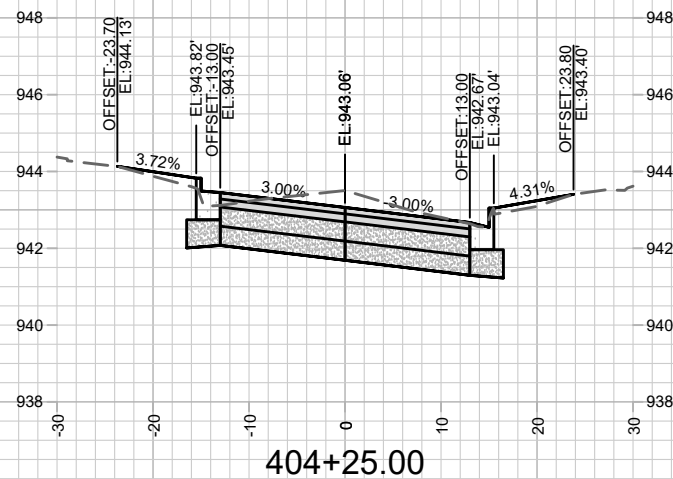
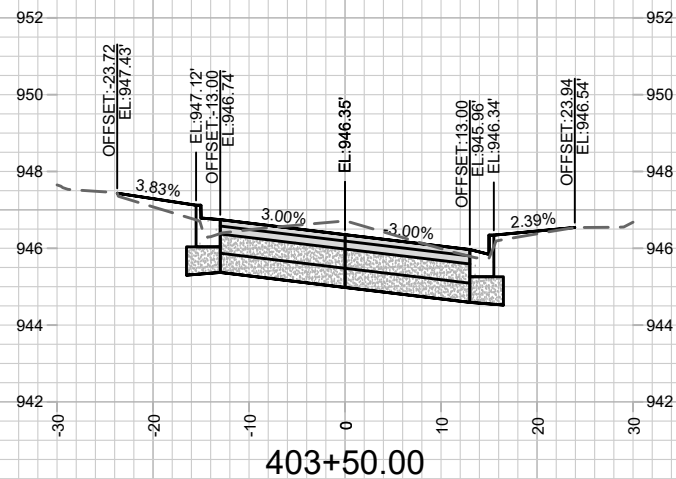
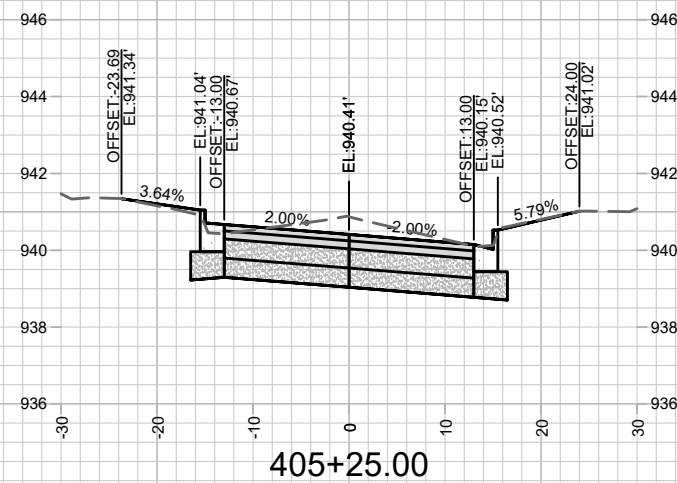
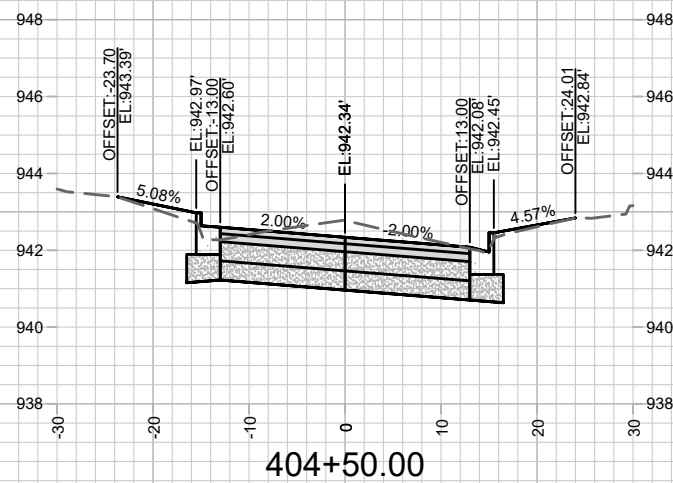
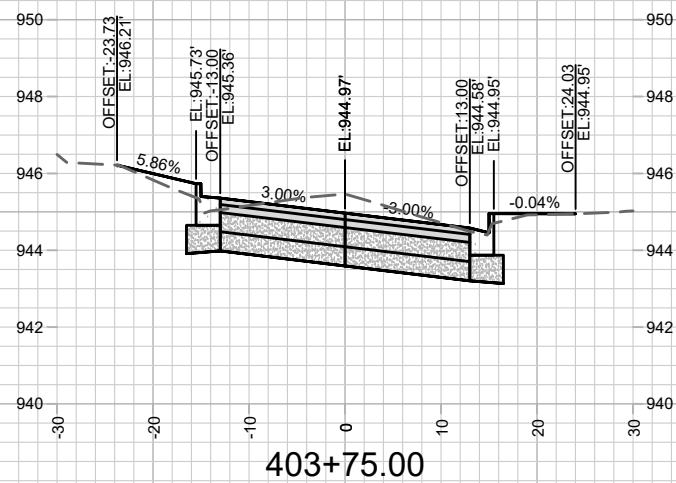
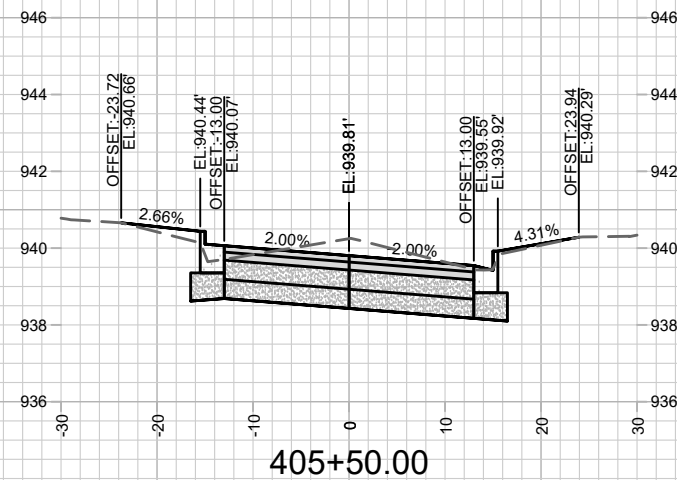
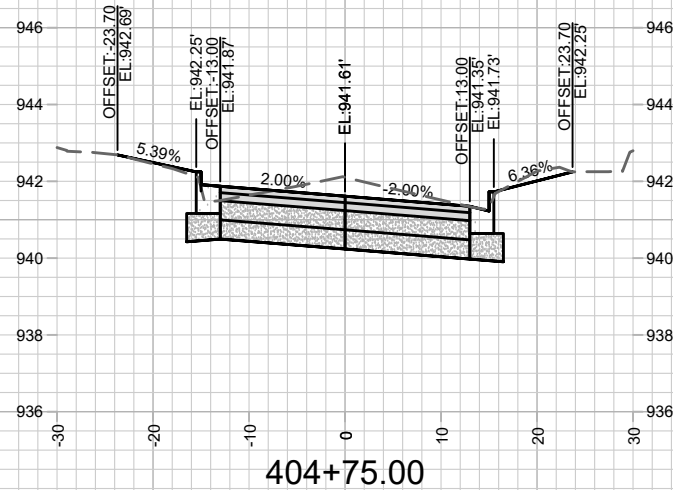
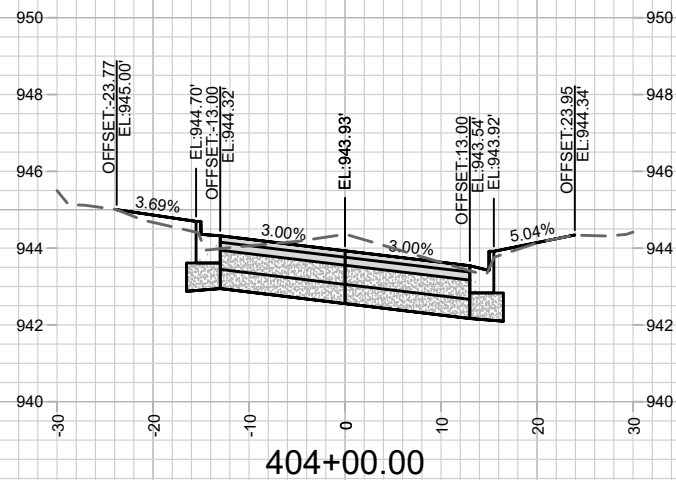
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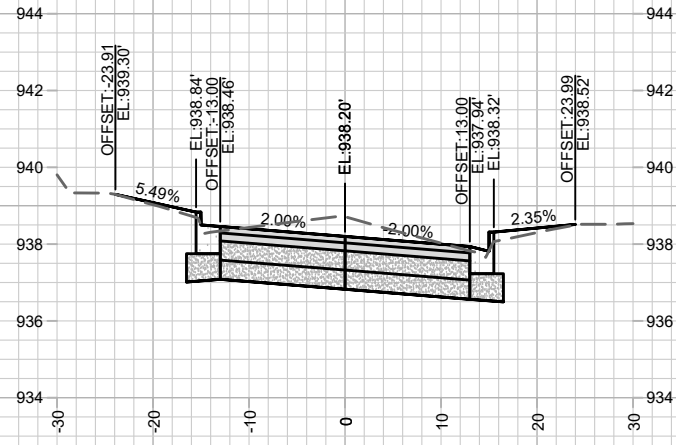
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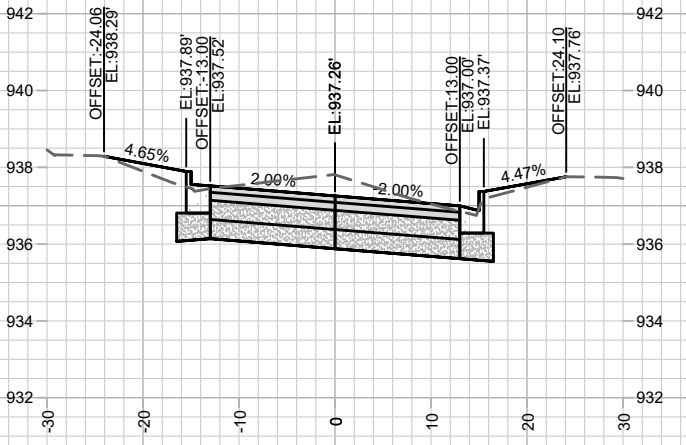


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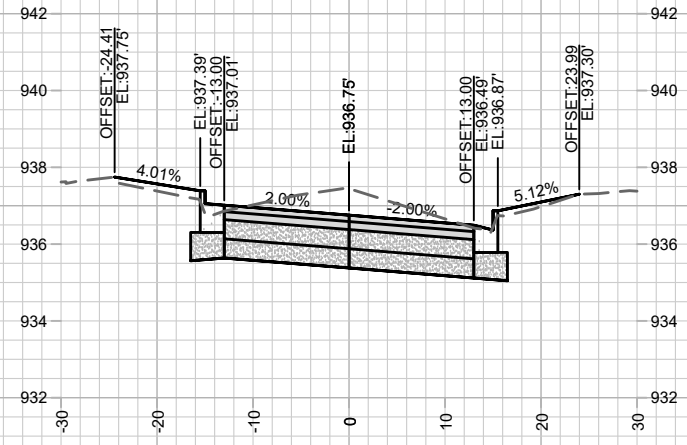
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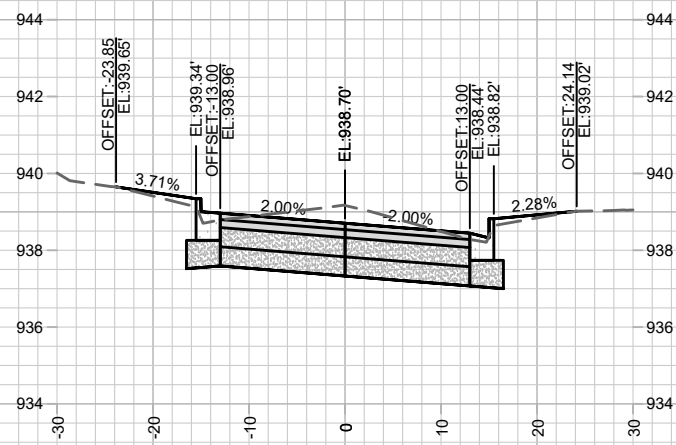
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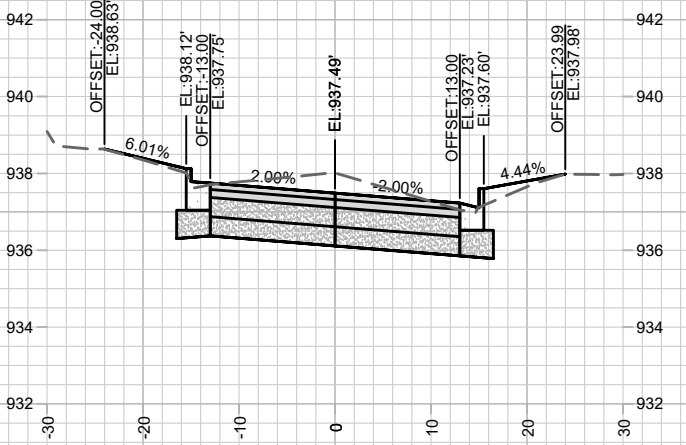
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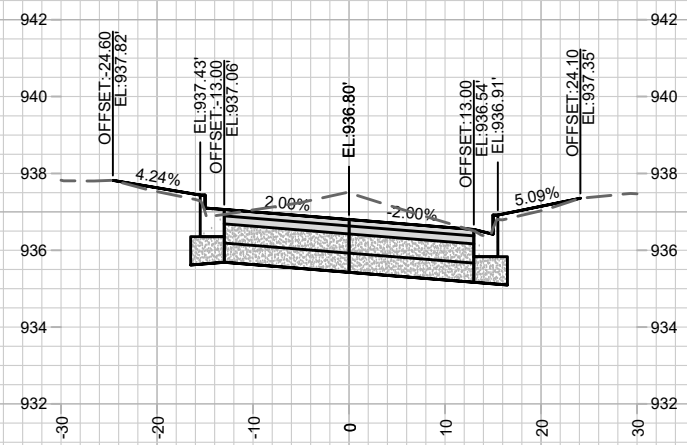
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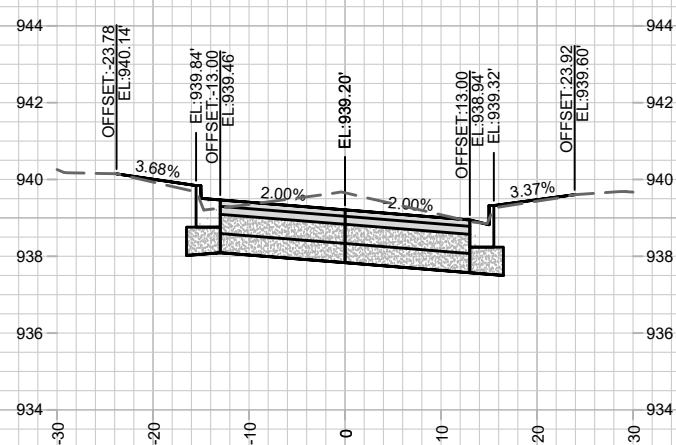
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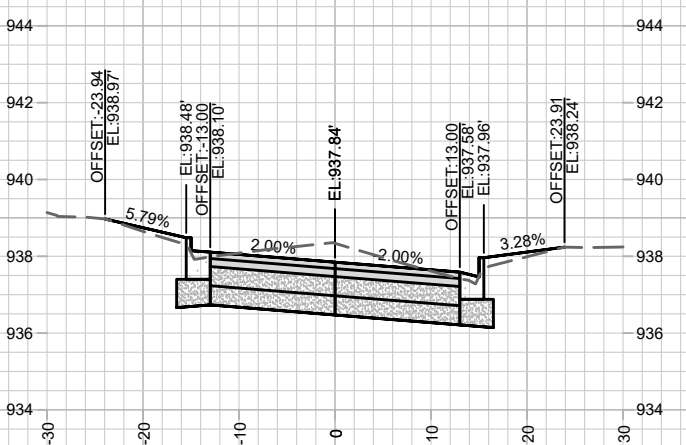
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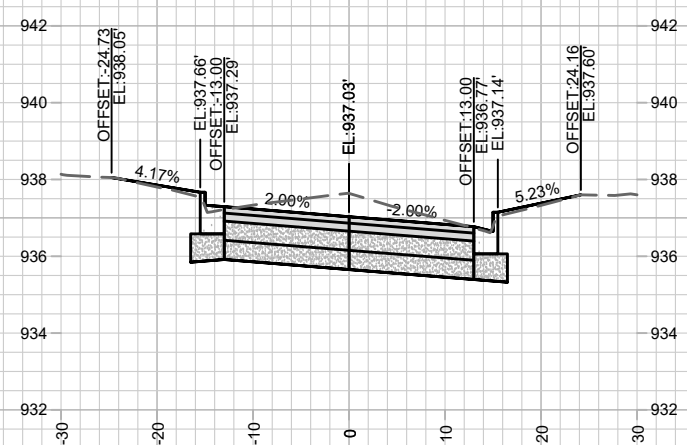
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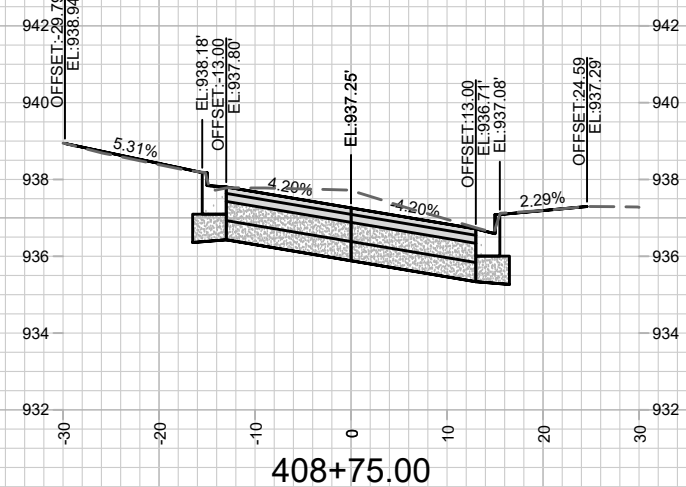
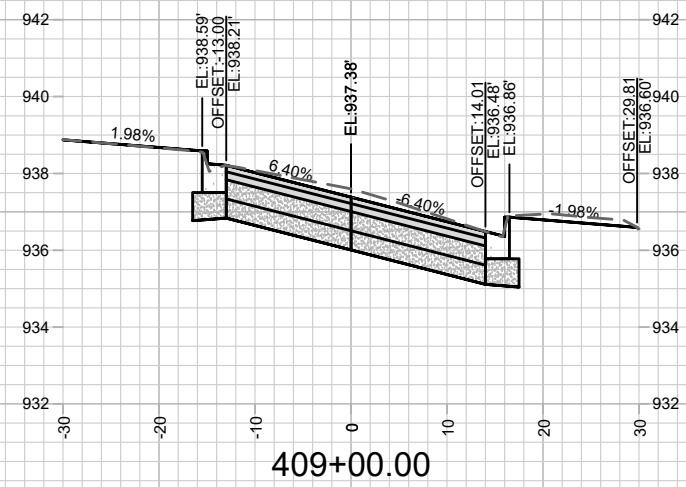
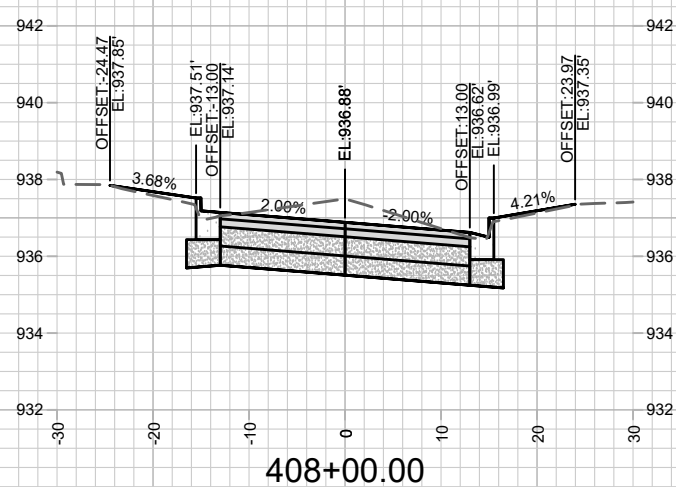
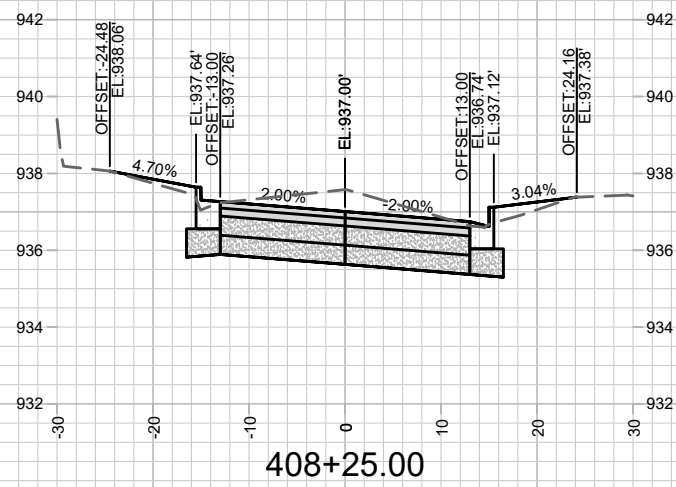
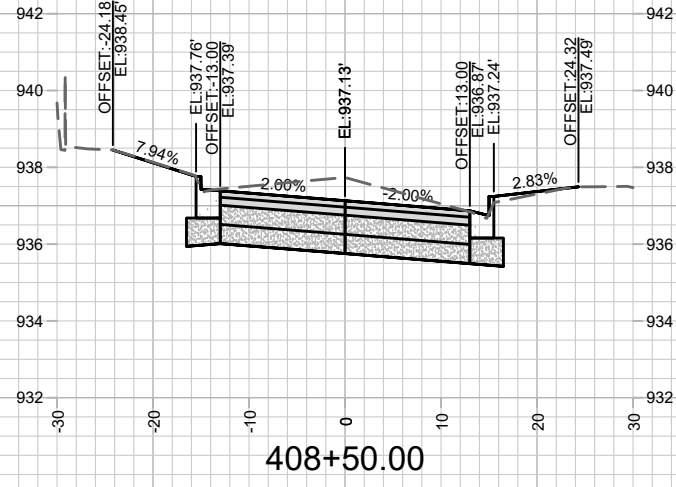
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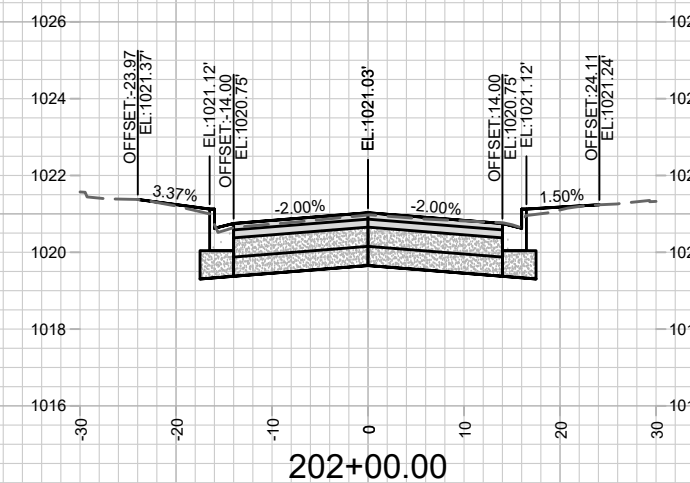
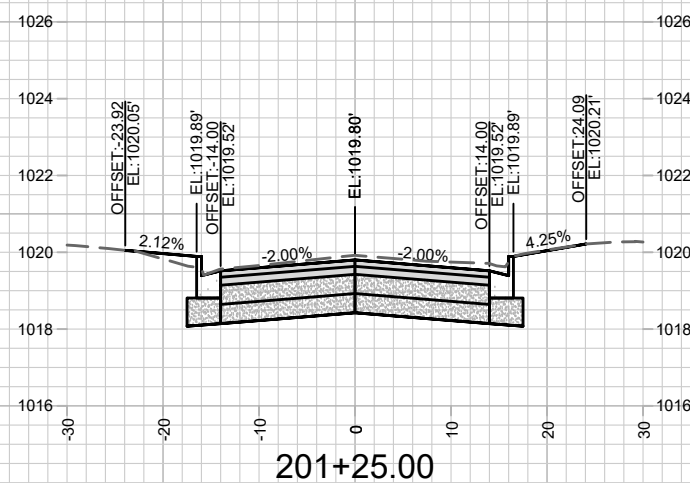
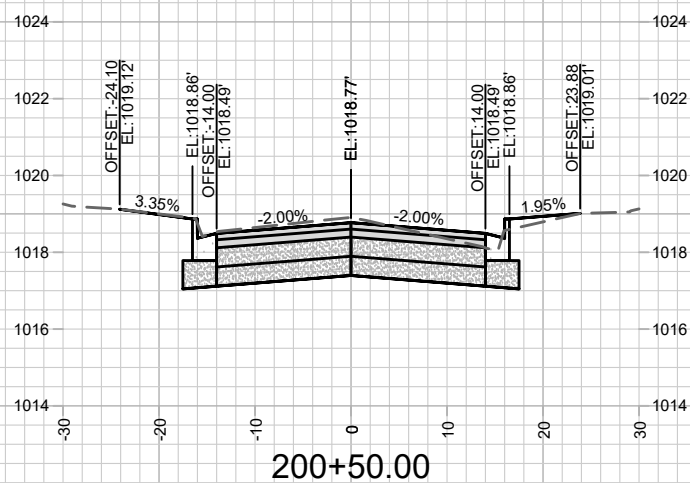
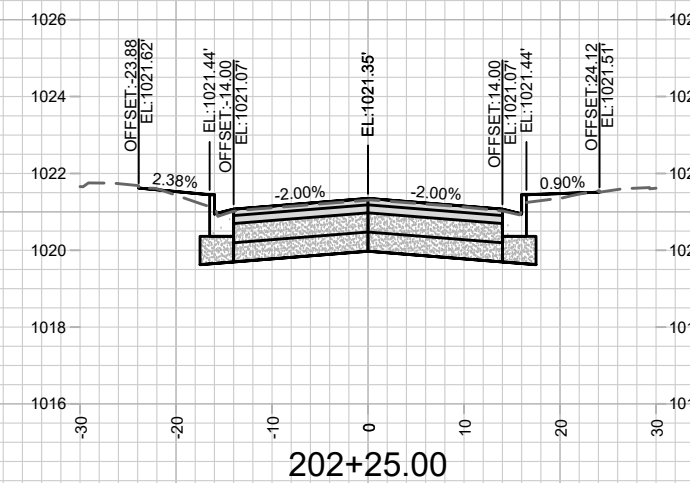
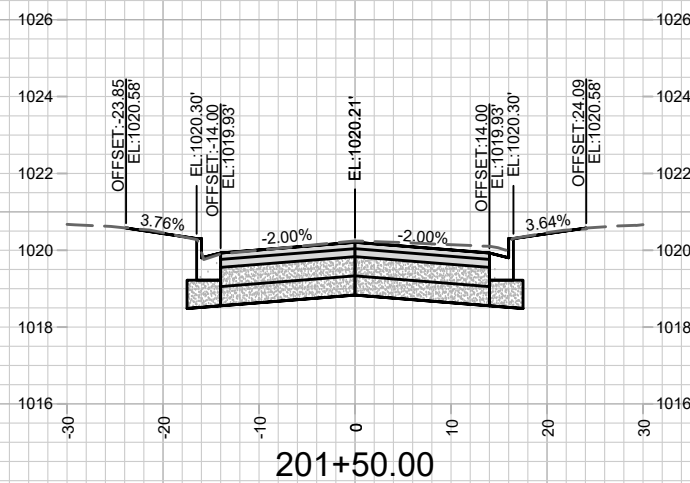
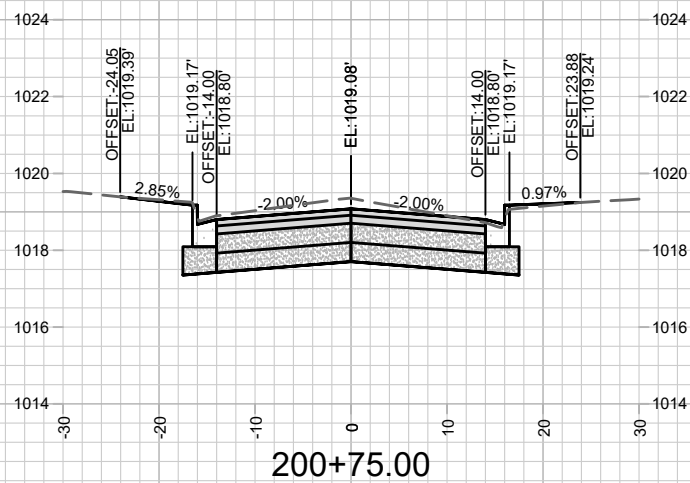
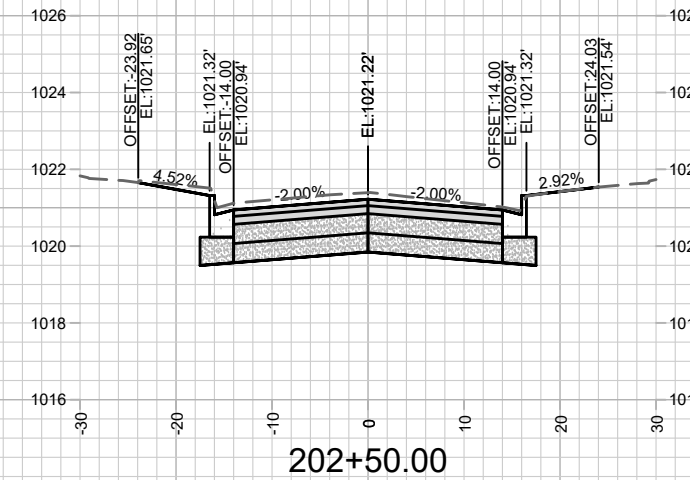
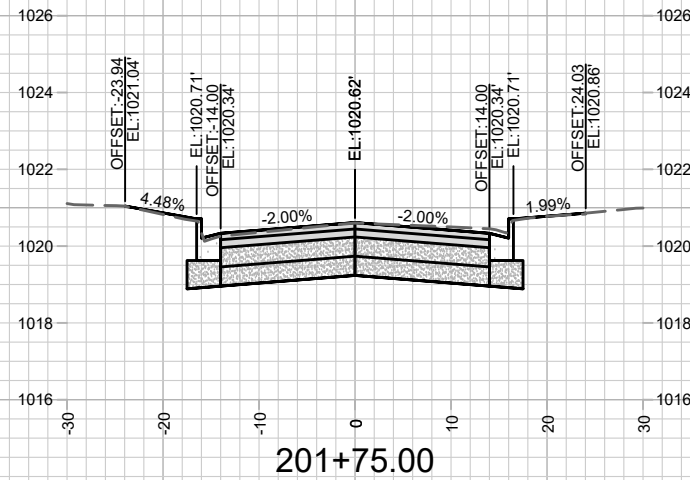
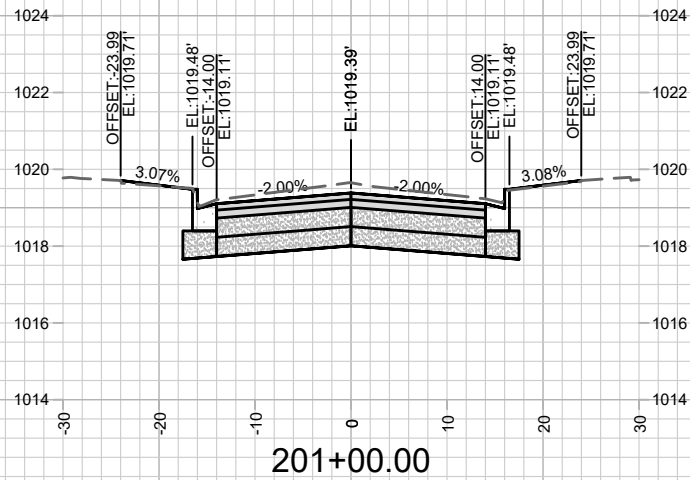
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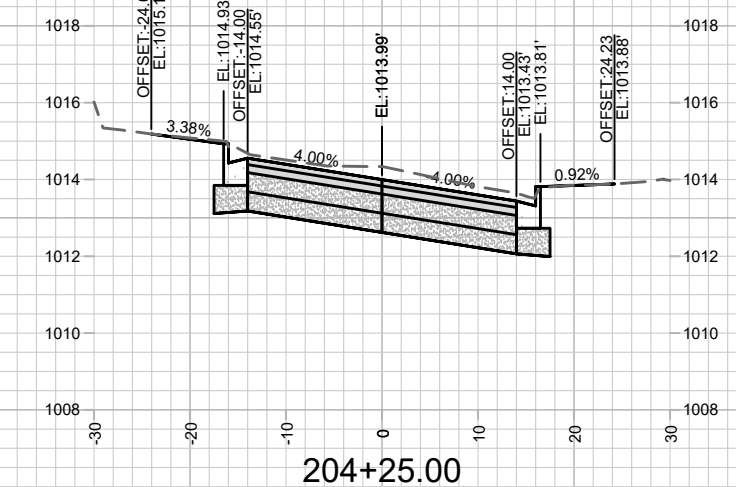
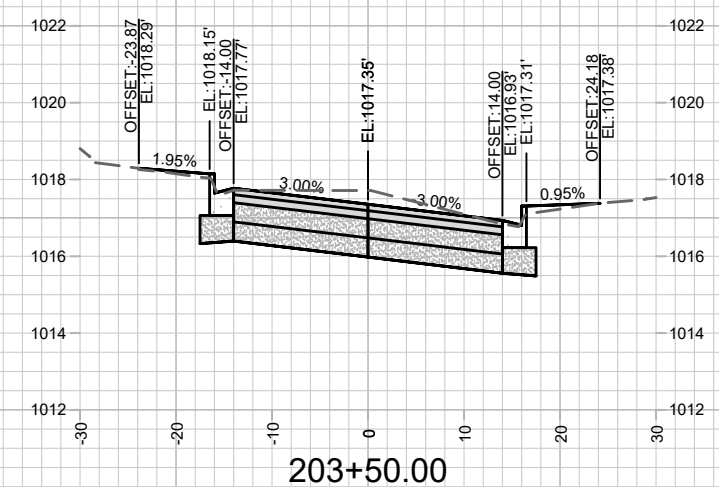
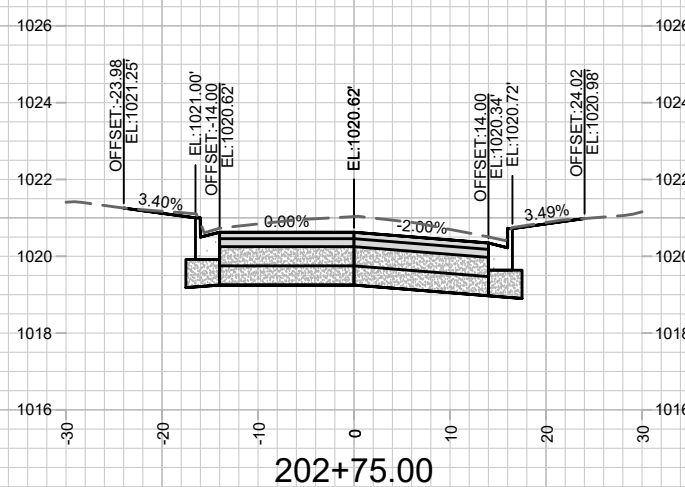
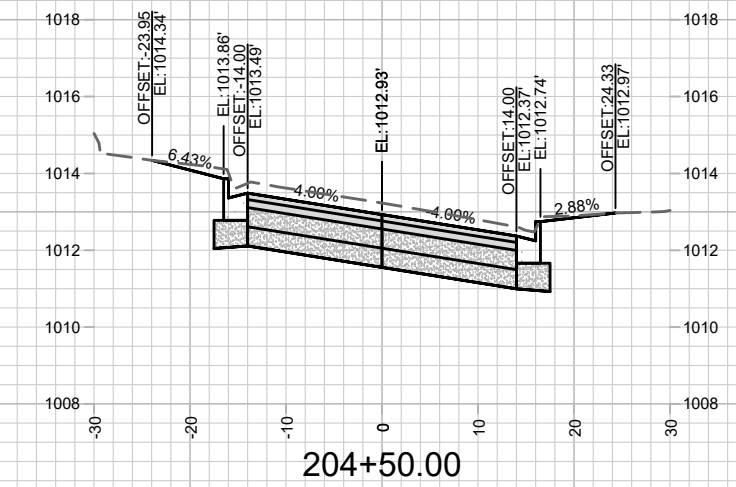
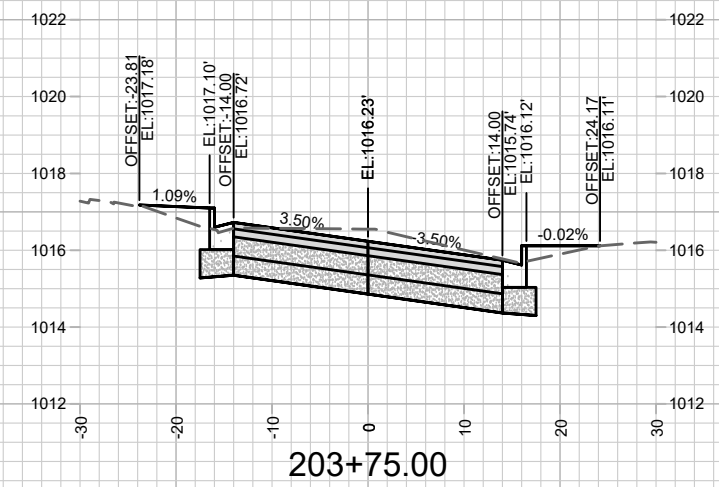
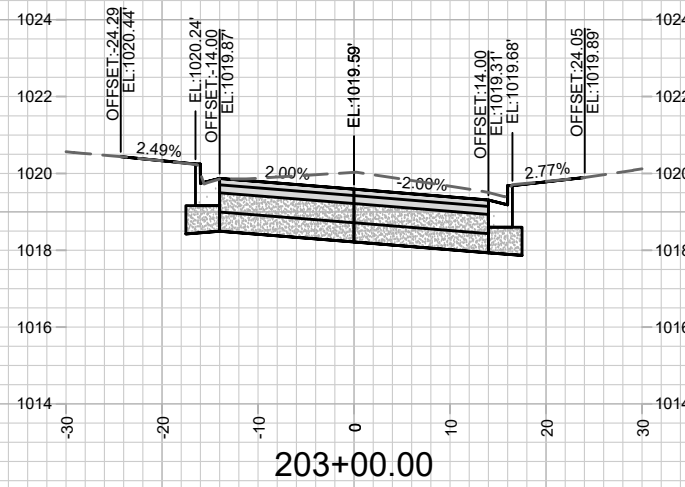
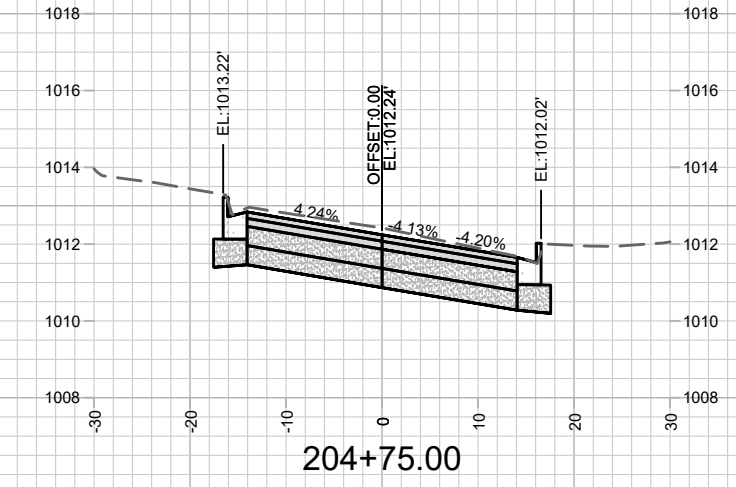
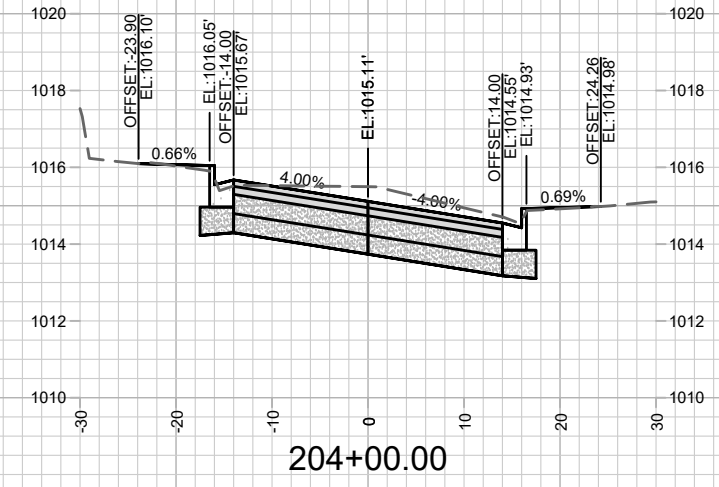
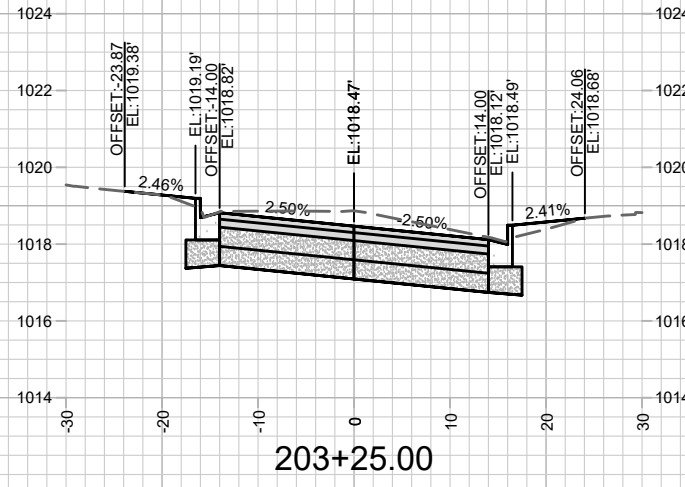
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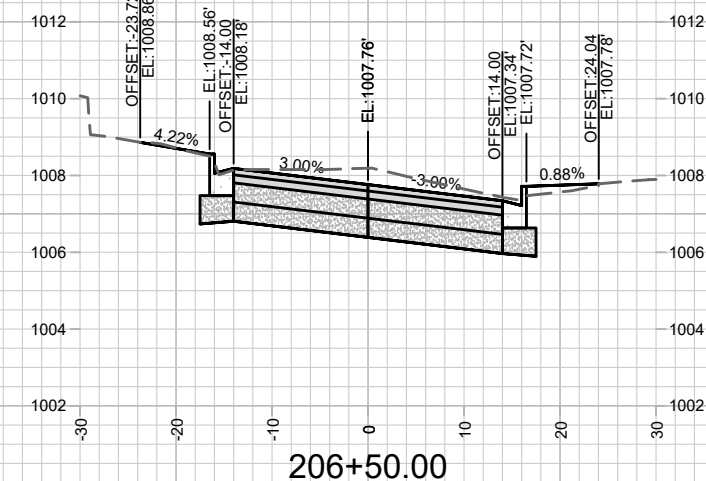
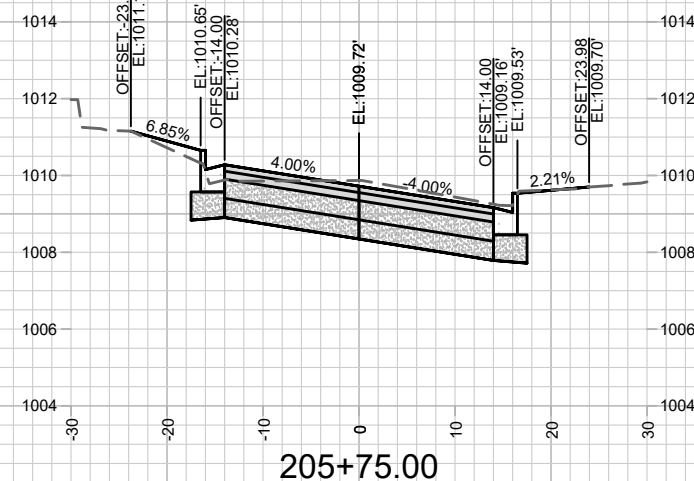
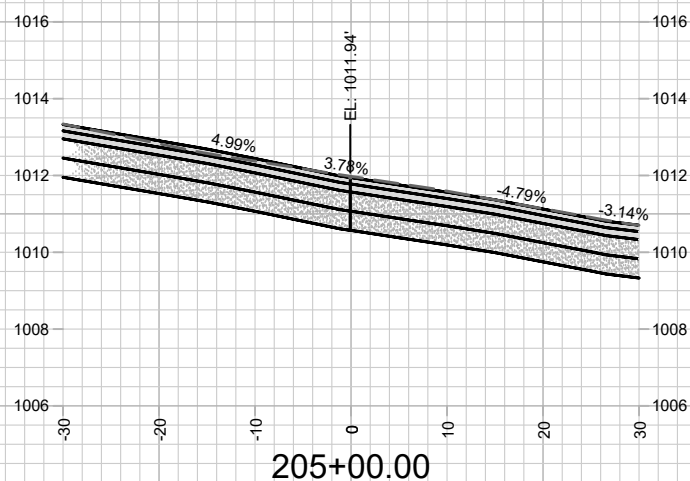
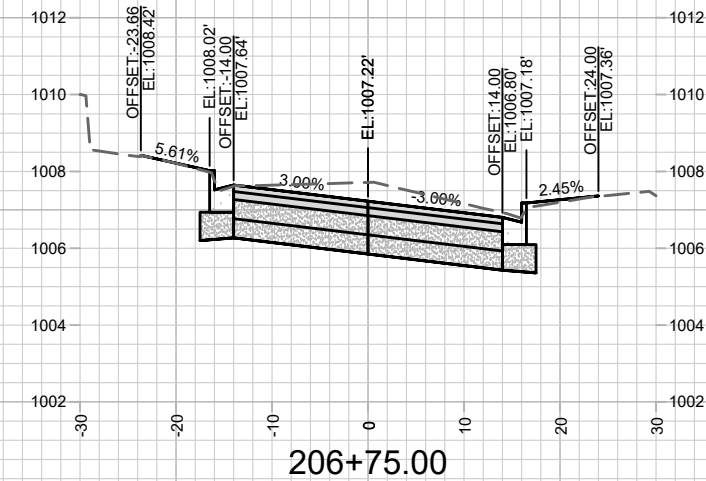
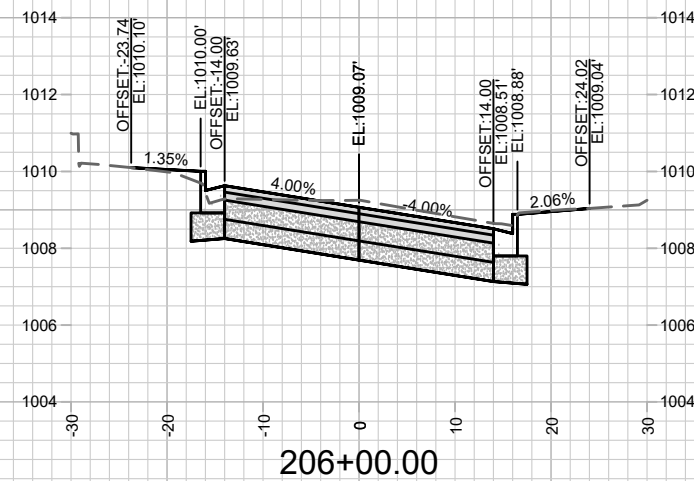
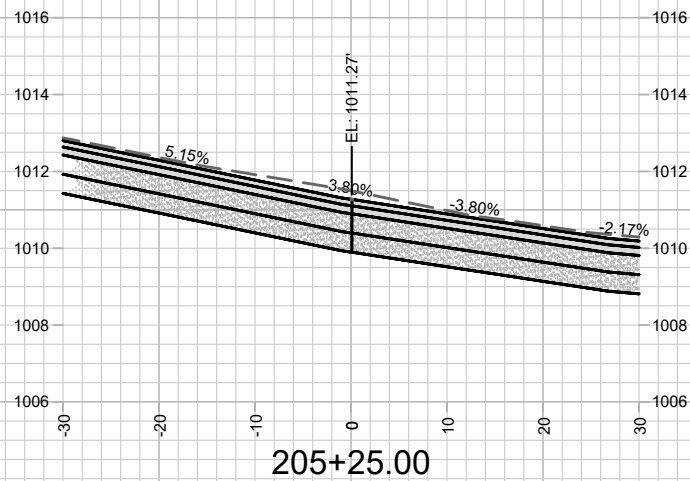
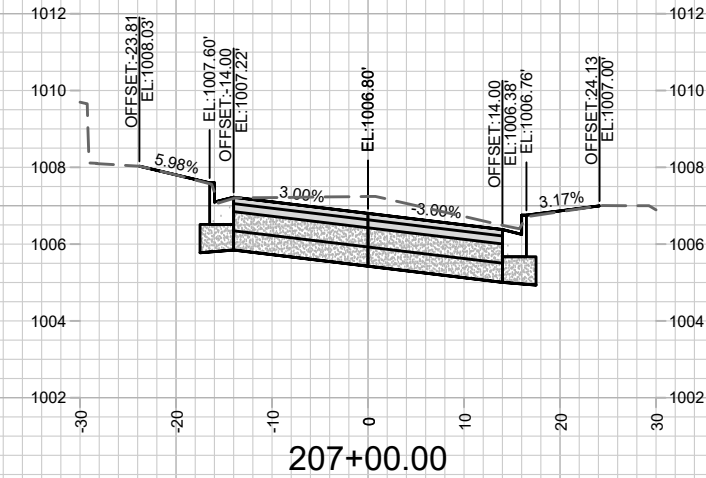
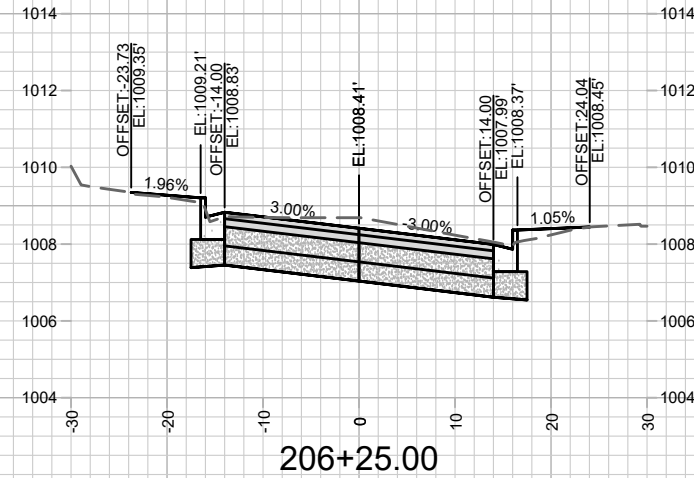
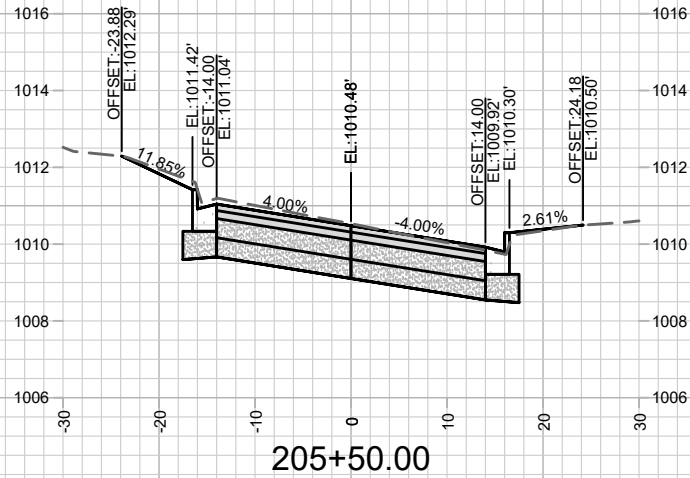
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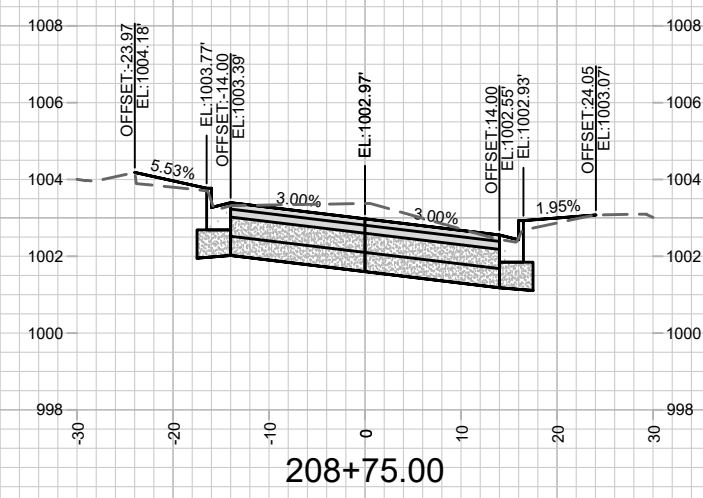
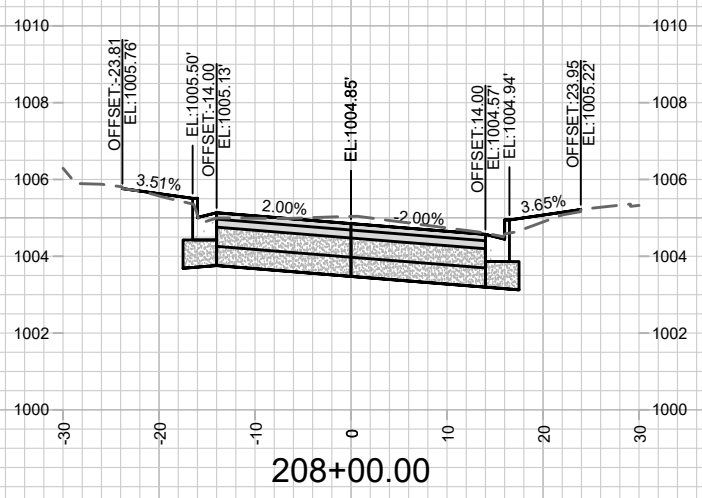
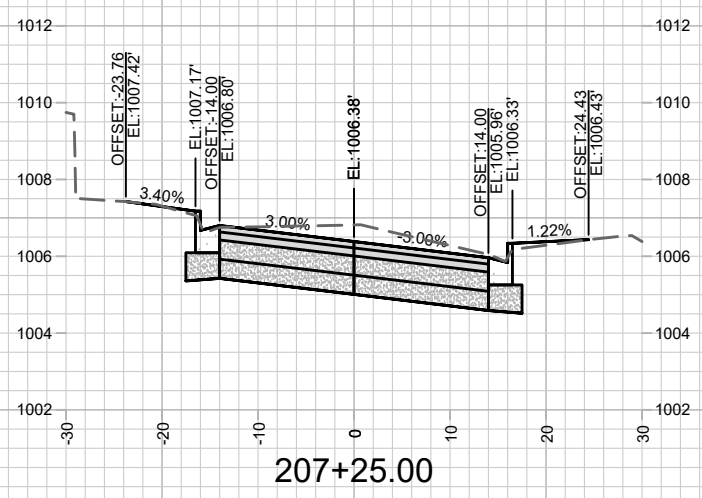
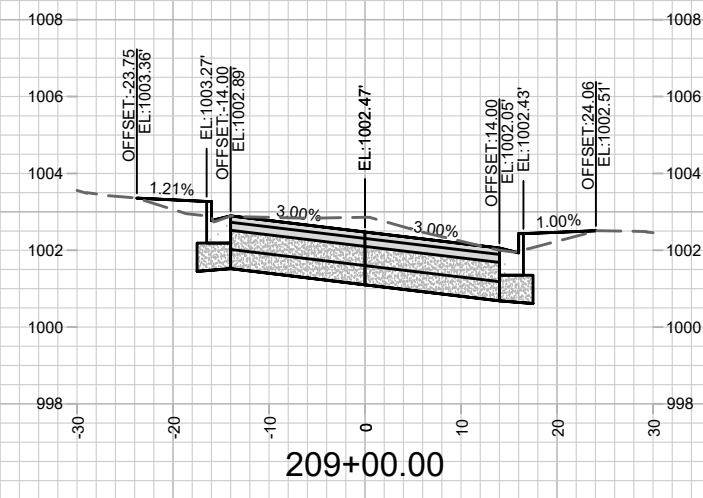
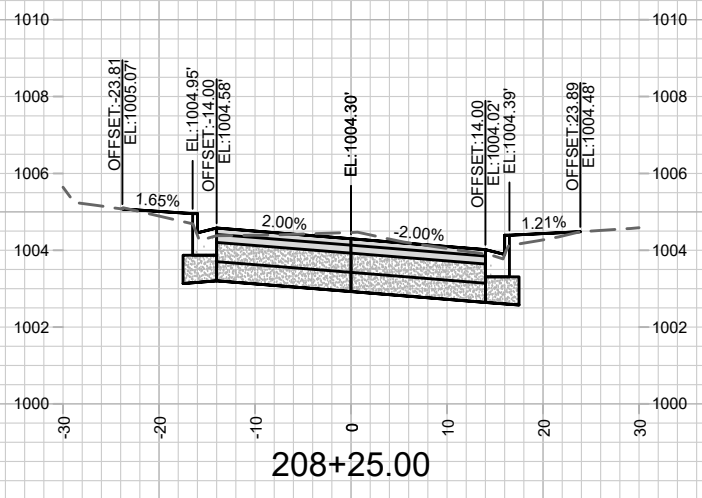
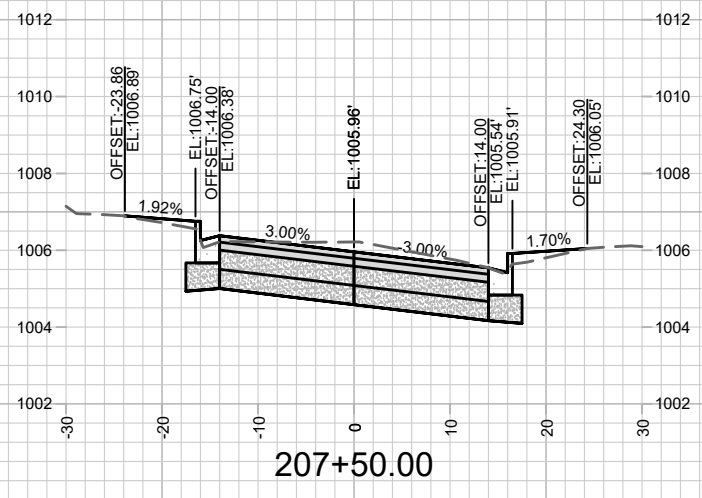
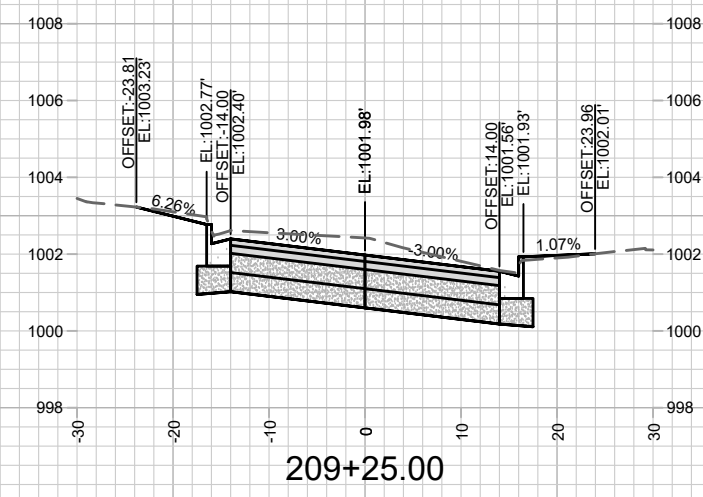
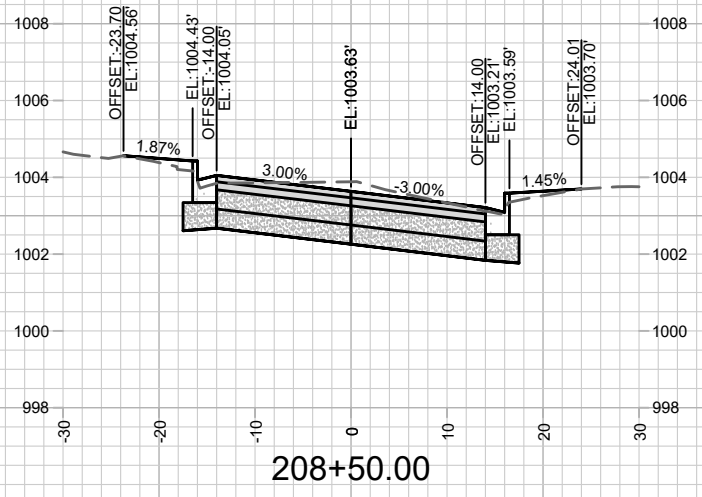
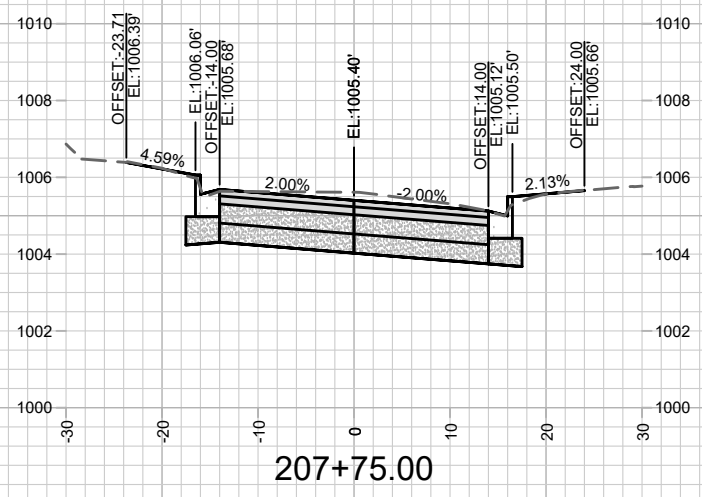
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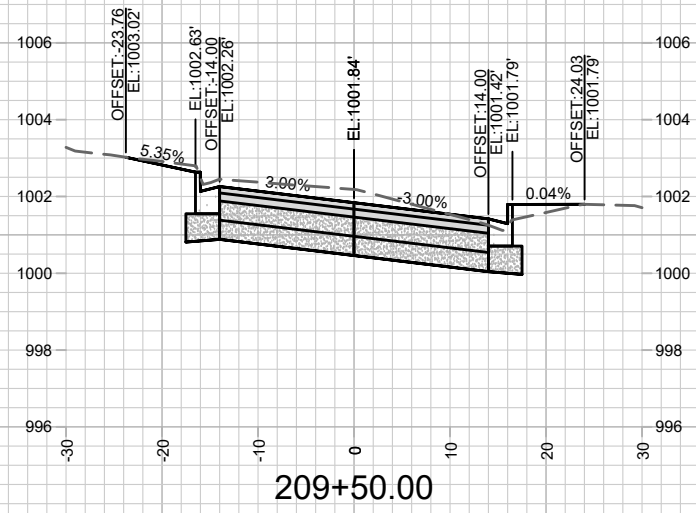


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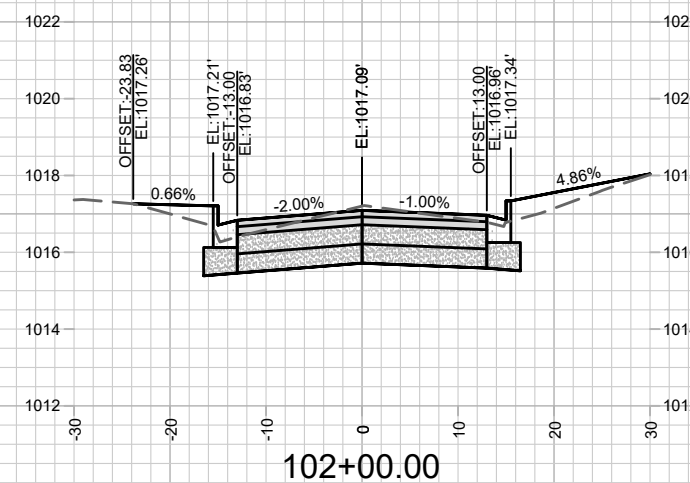
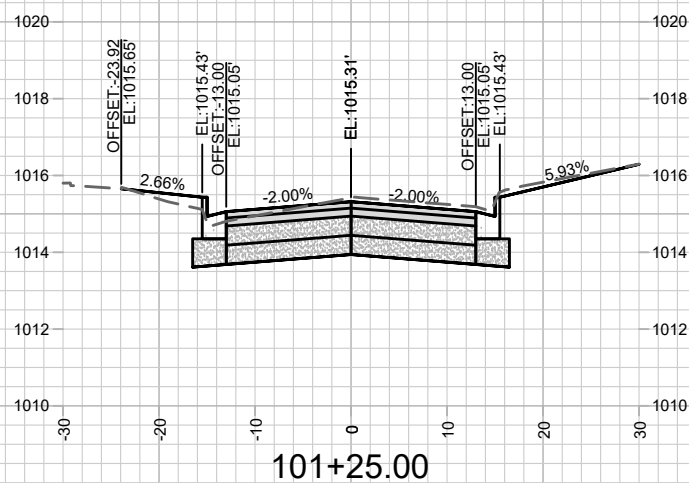
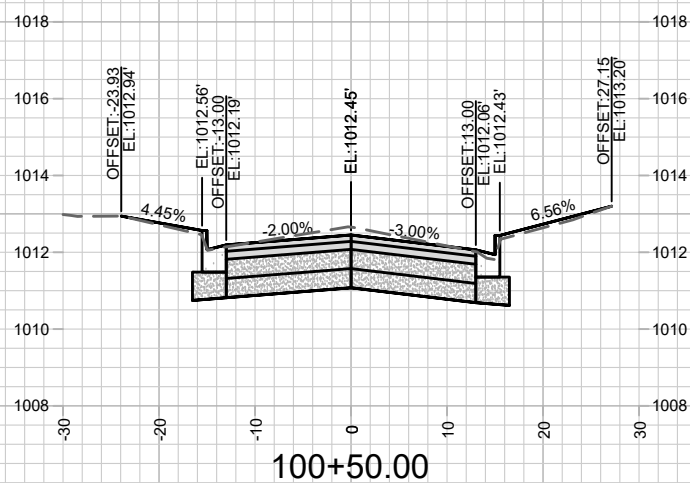
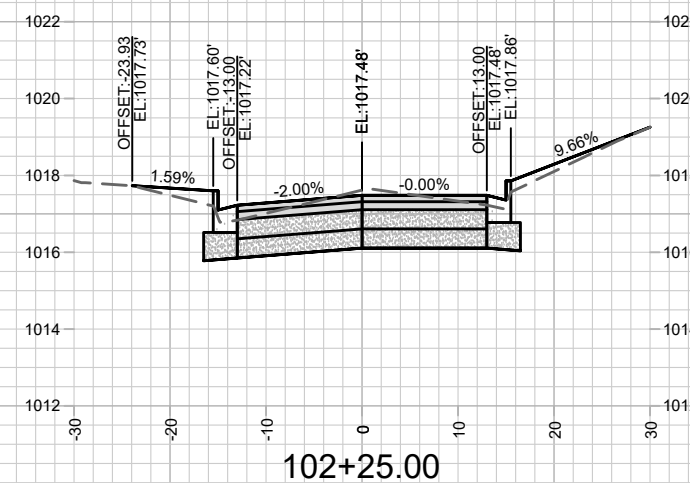
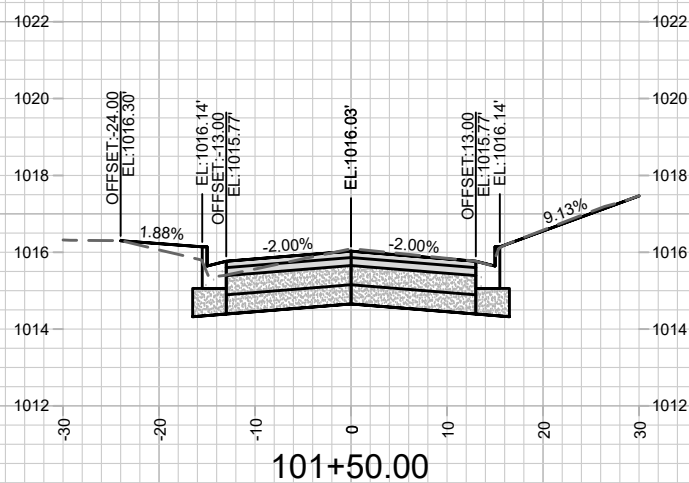
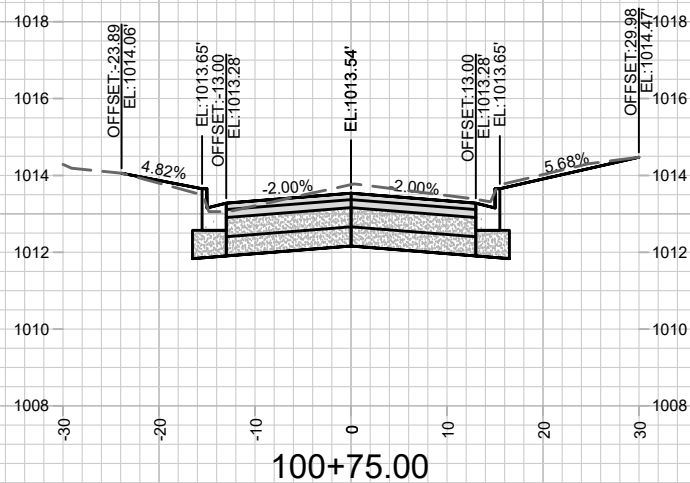
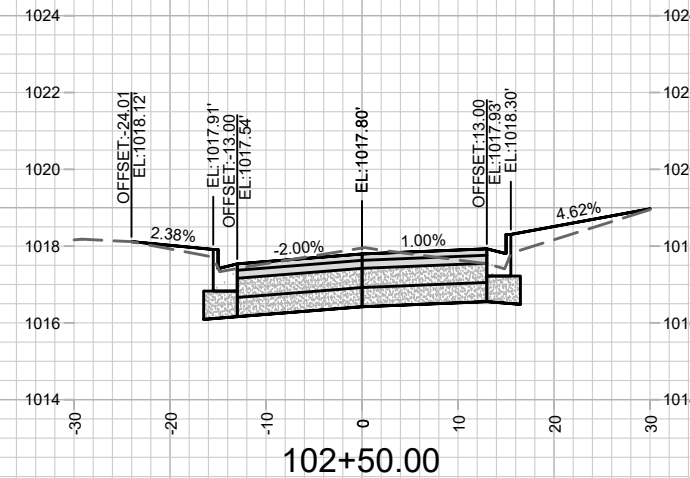
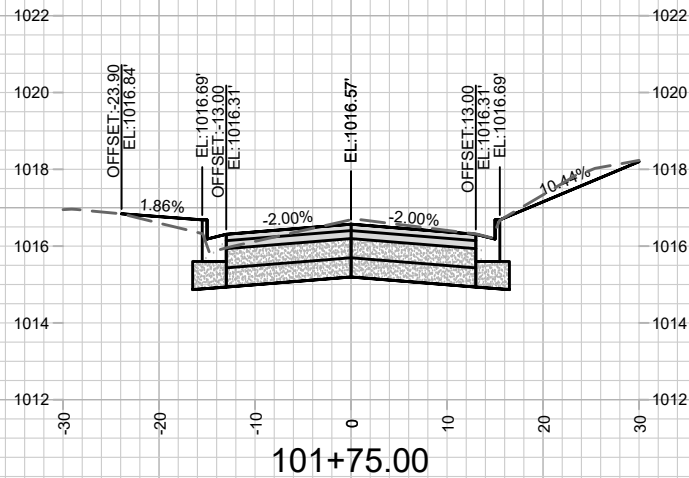
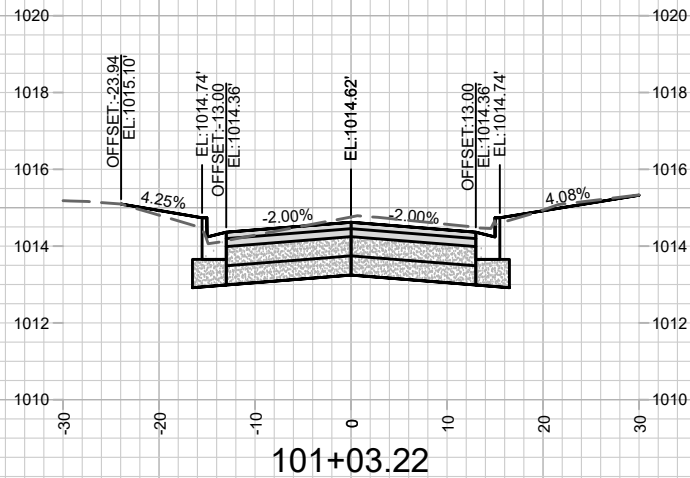
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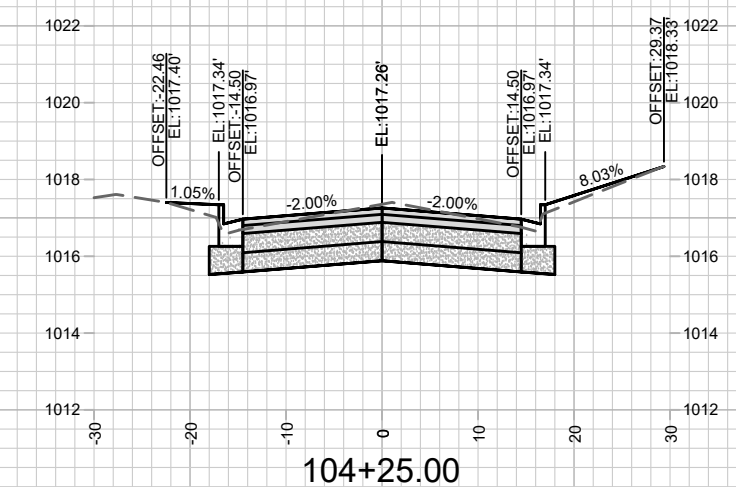
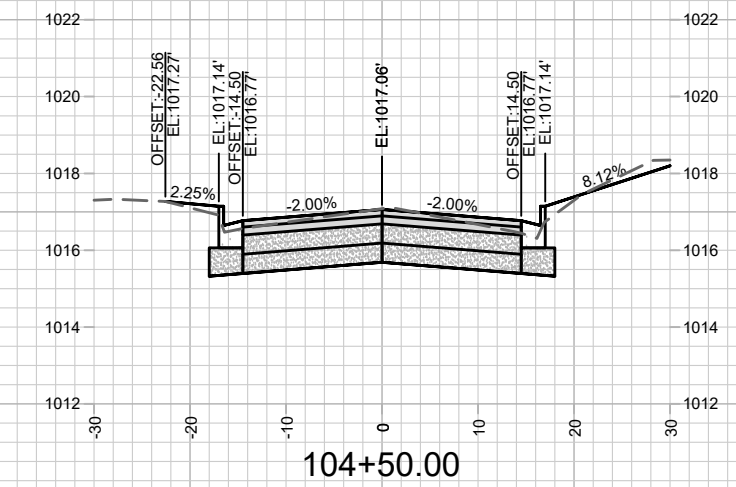
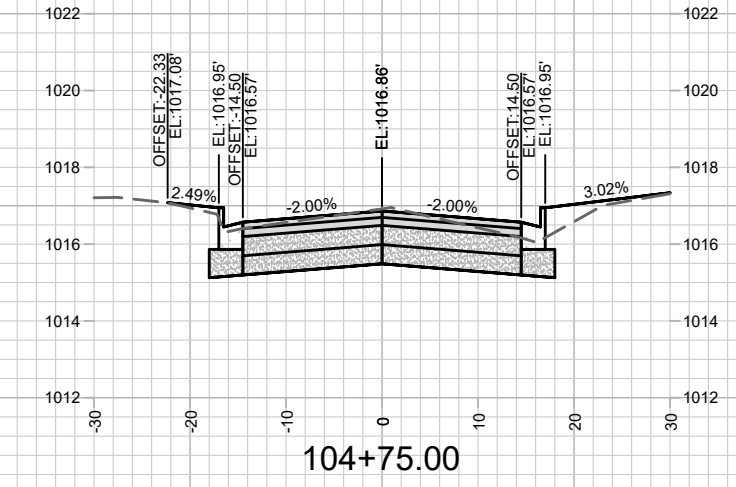
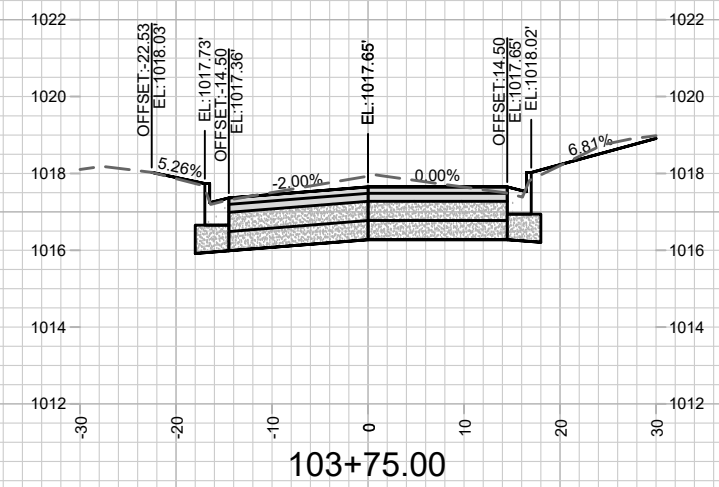
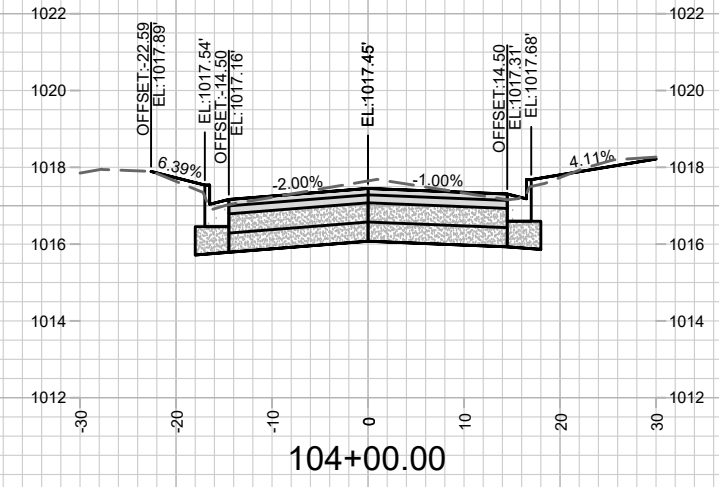
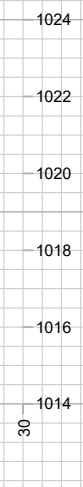
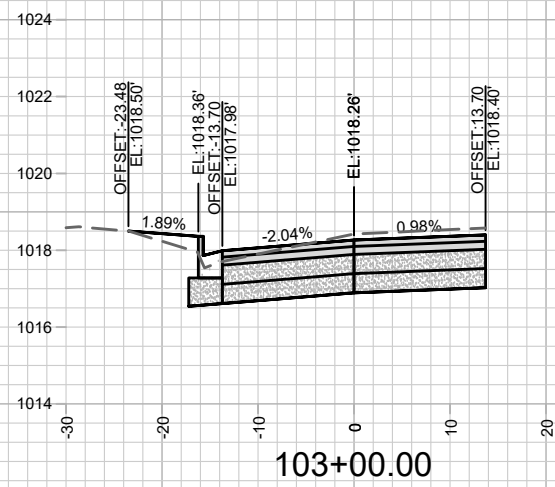
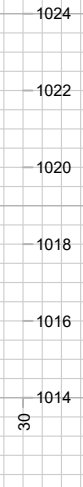
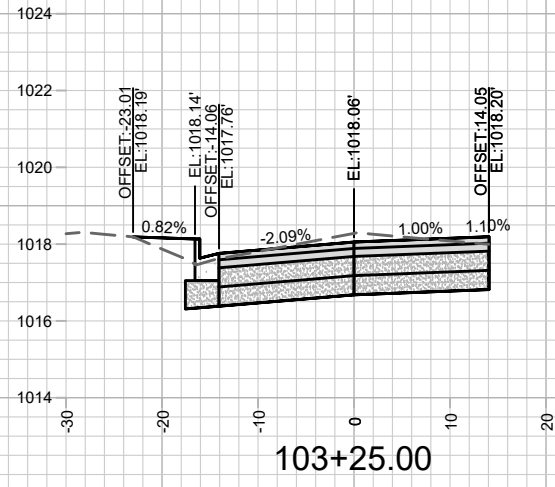
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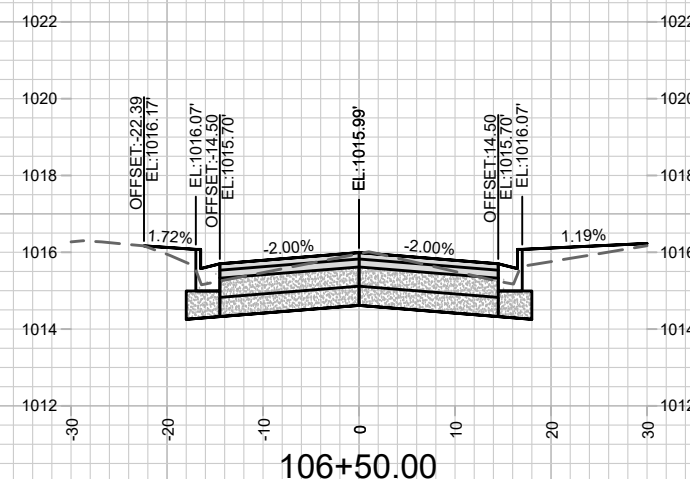
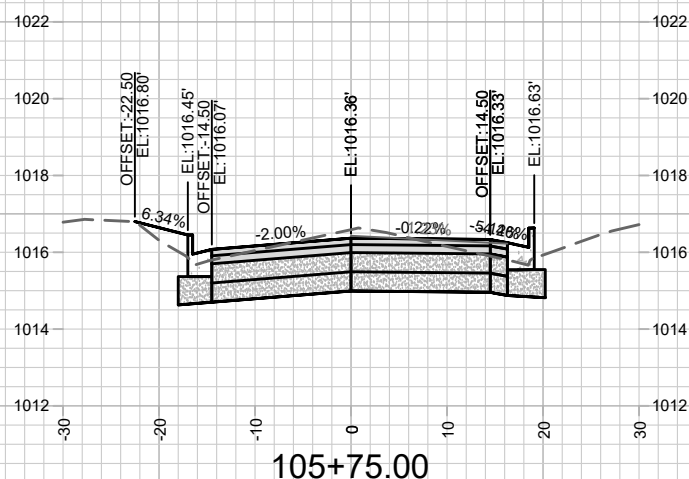
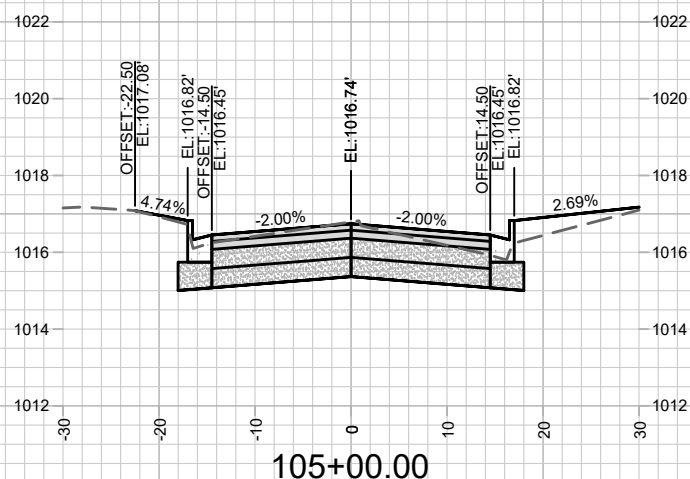
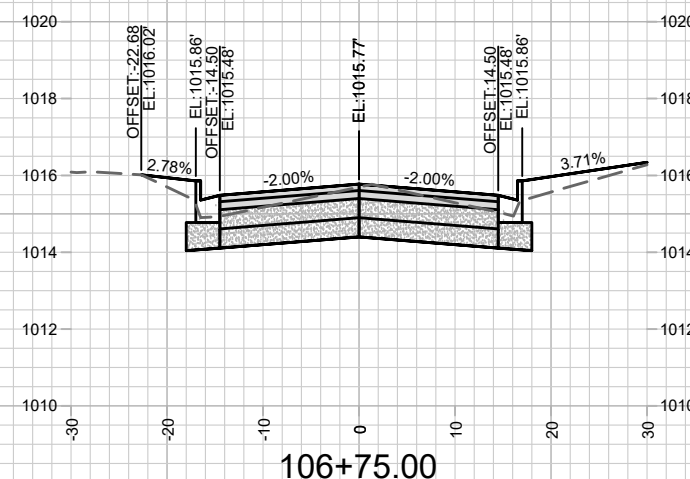
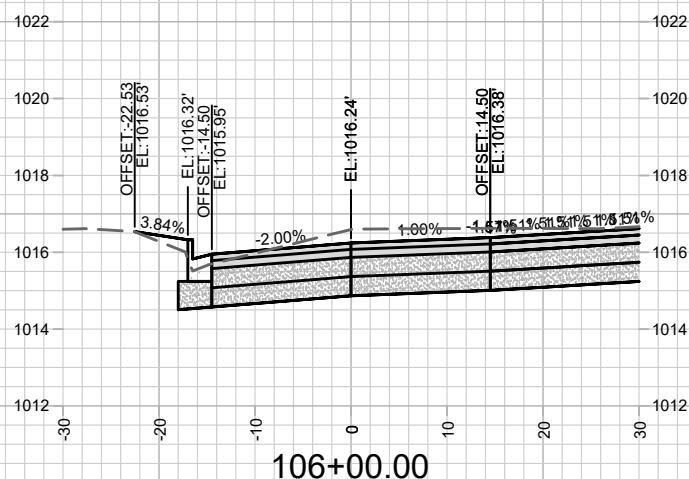
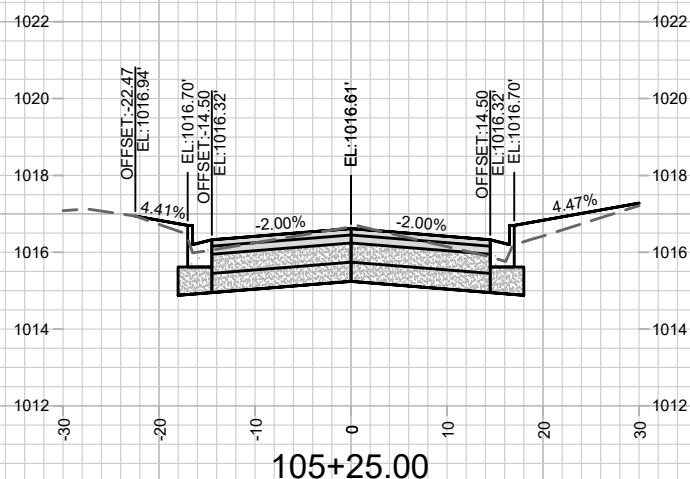
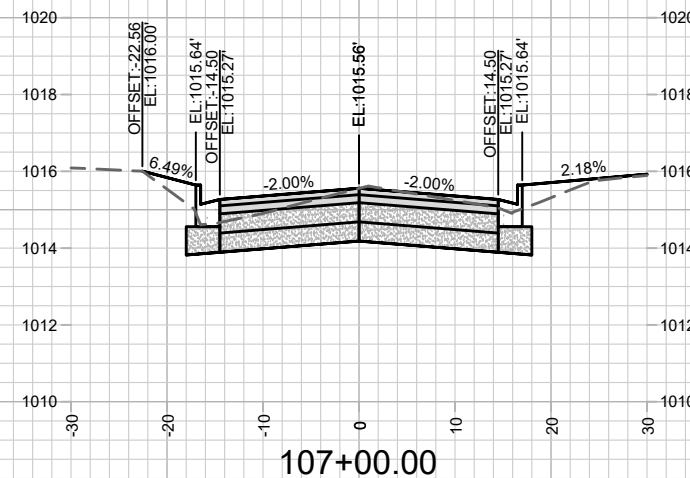
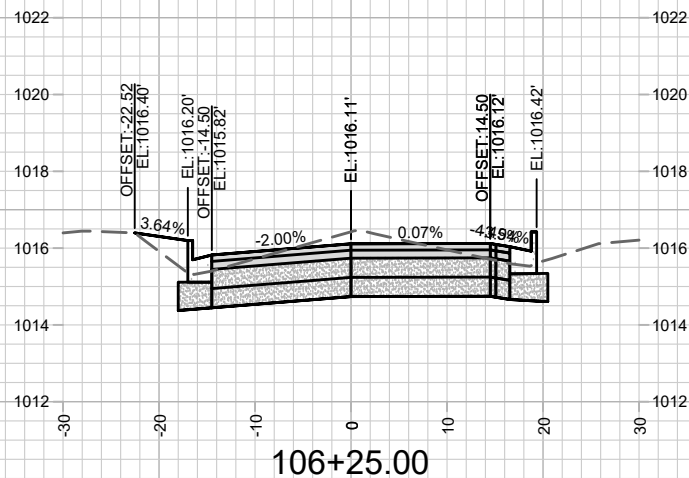
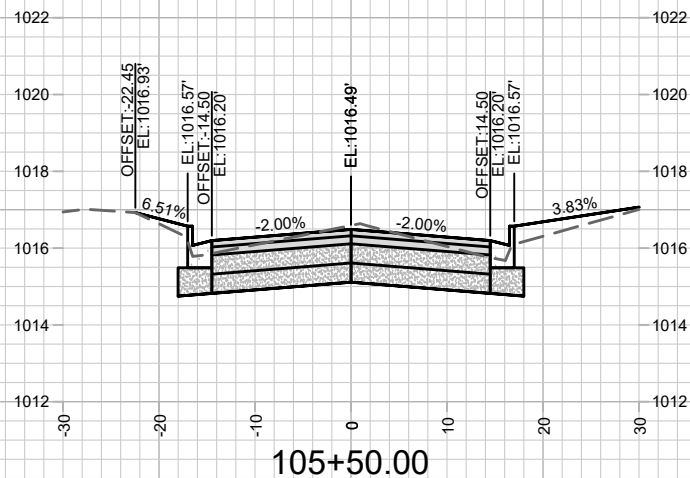
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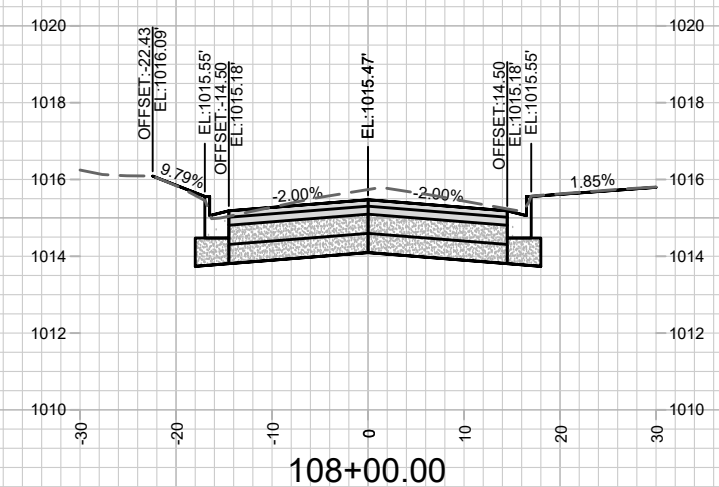
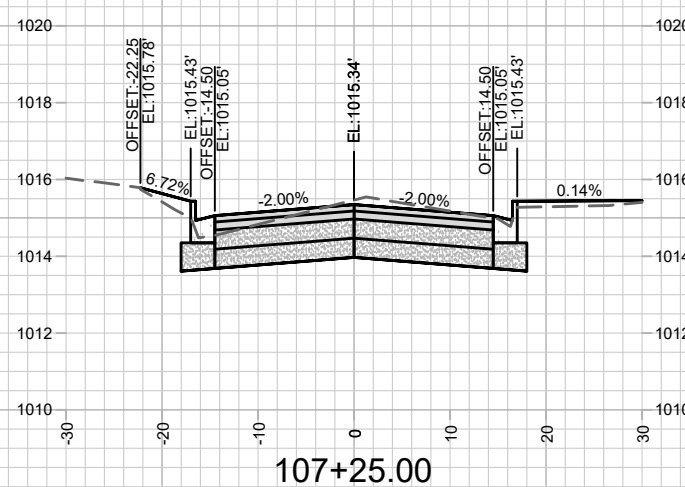
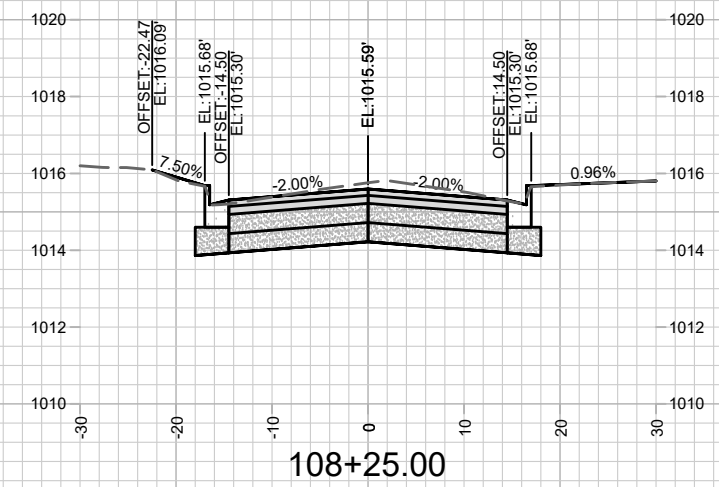
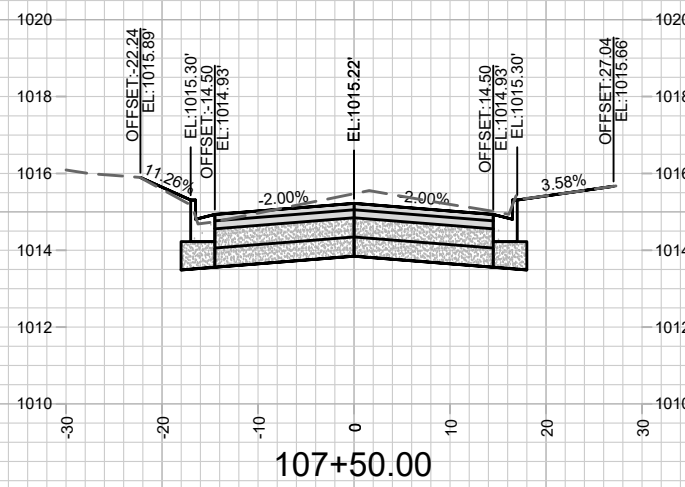
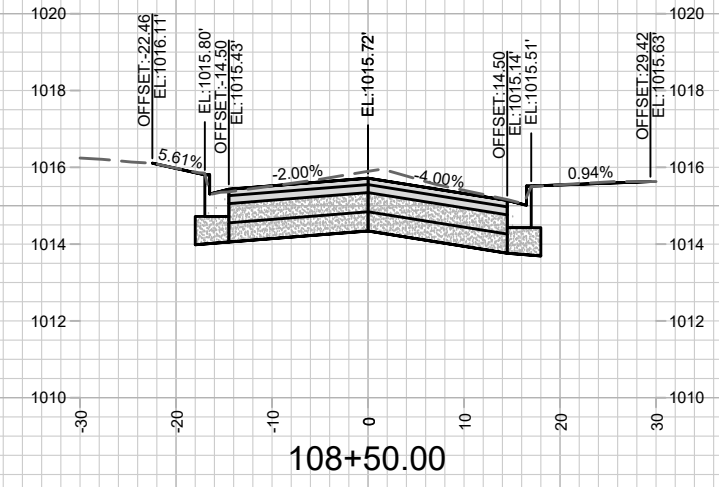
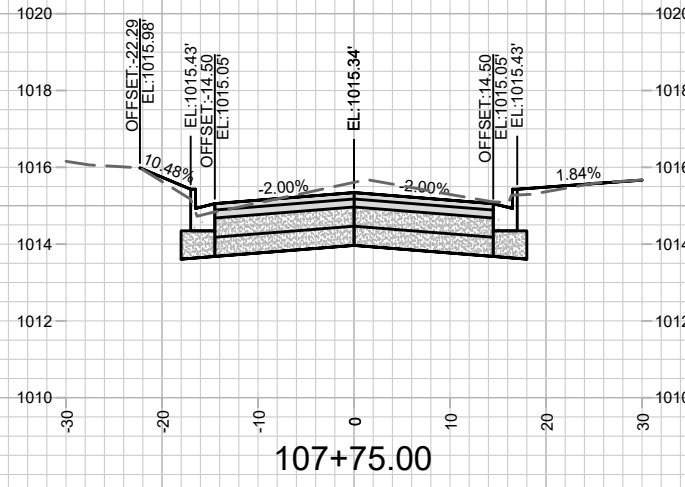
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