

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

BIRCHWOOD POINT SOUTH PHASE 2

CITY PROJECT NO. 11997
CITY CONTRACT NO. 8337
MUNIS NO. 11997

INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
DI-D4	STREET PLAN AND PROFILES
PI-P7	UTILITIES PLAN AND PROFILES
UI-U5	SANITARY SEWER SCHEDULE
U-SAN	STORM SEWER SCHEDULE
U-STM	WATER PLAN AND PROFILES
WI-W5	WATER IMPACT PLAN
W6	WATER ESTIMATE OF MATERIALS
W7	

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 5, 2019

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 7/1/19
City Engineer Date

STREET GEOMETRY DESIGNED BY:
MARK S. WINTER
E-39453
MADISON WI
6/18/19
PROFESSIONAL ENGINEER

STREET GRADES DESIGNED BY:
JOHN P. SAPP
44054
JANESVILLE, WI
6-12-19
PROFESSIONAL ENGINEER

WATER DESIGNED BY:
KELLY B. MIESS
E-41821
MADISON WI
6/12/19
PROFESSIONAL ENGINEER

SANITARY SEWER DESIGNED BY:
MARK D. MODER
E-33979
MADISON WI
7/1/19
PROFESSIONAL ENGINEER

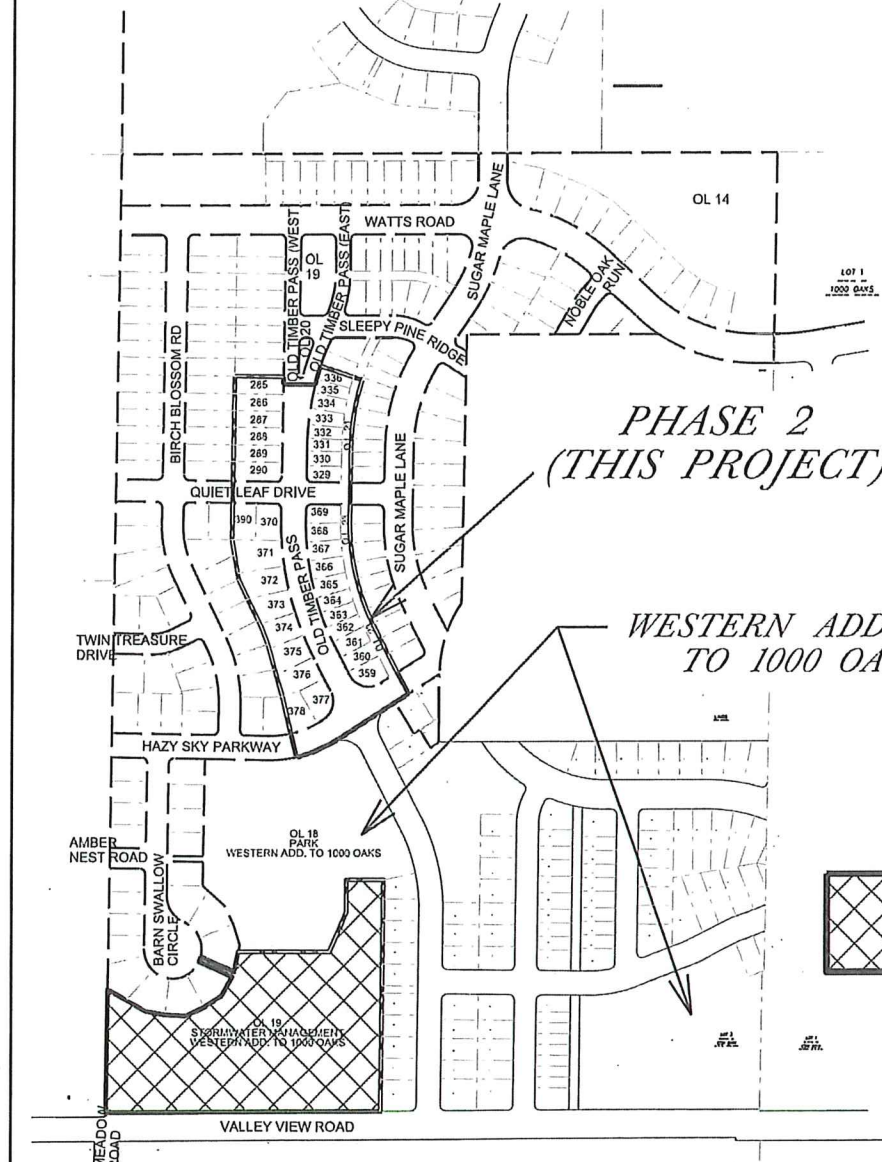
STORM SEWER DESIGNED BY:
GREGORY T. FRIES
E-30456
MADISON WI
6/28/19
PROFESSIONAL ENGINEER

PLOT SCALE: _____

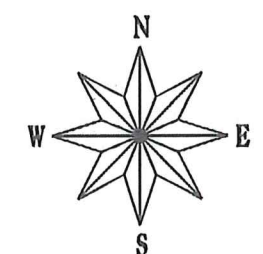
PLOT NAME: _____

REV. DATE: _____

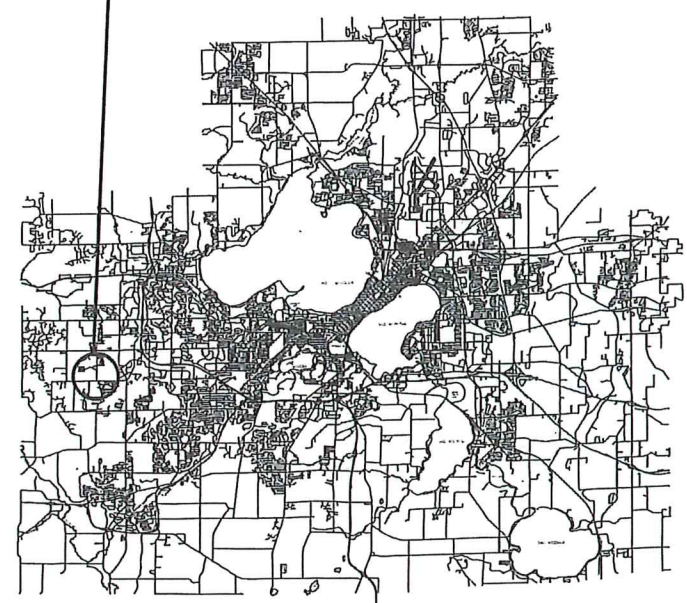
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SEE PROJ. NO. 11933 FOR STORMWATER MANAGEMENT PLANS



PROJECT LOCATION



THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE

ALL PAVEMENT IN THE QUIET LEAF DRIVE RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE OLD TIMBER PASS & HAZY SKY PARKWAY RIGHTS-OF-WAY SHALL BE TYPE B PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL TYPICALLY BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.



ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

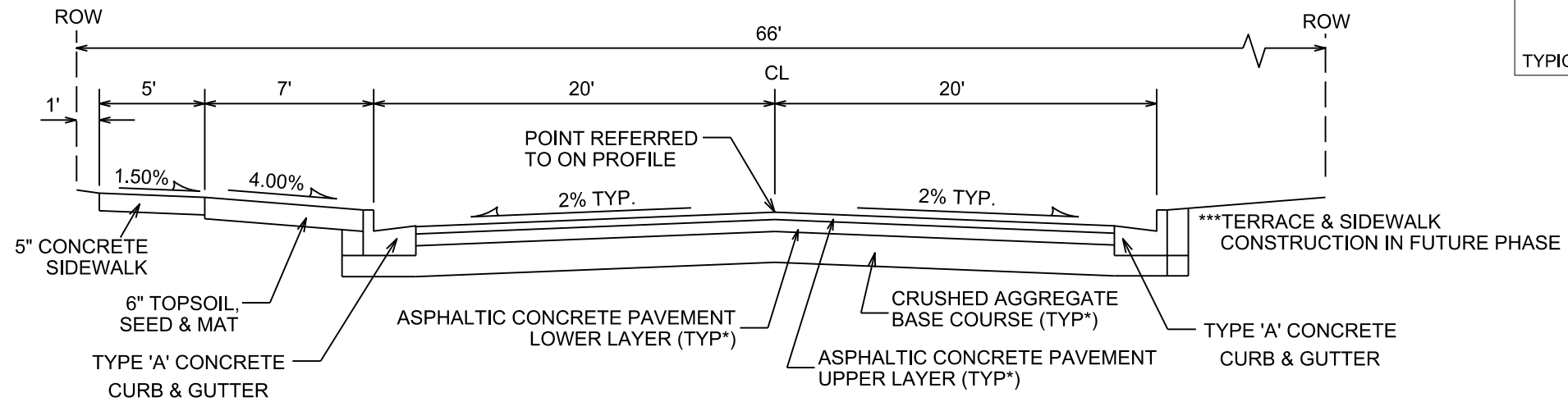
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	—— SAN ——
WATER	—— W ——
OVERHEAD ELECTRIC	—— OH ——
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

PLOT SCALE:

PLOT NAME:

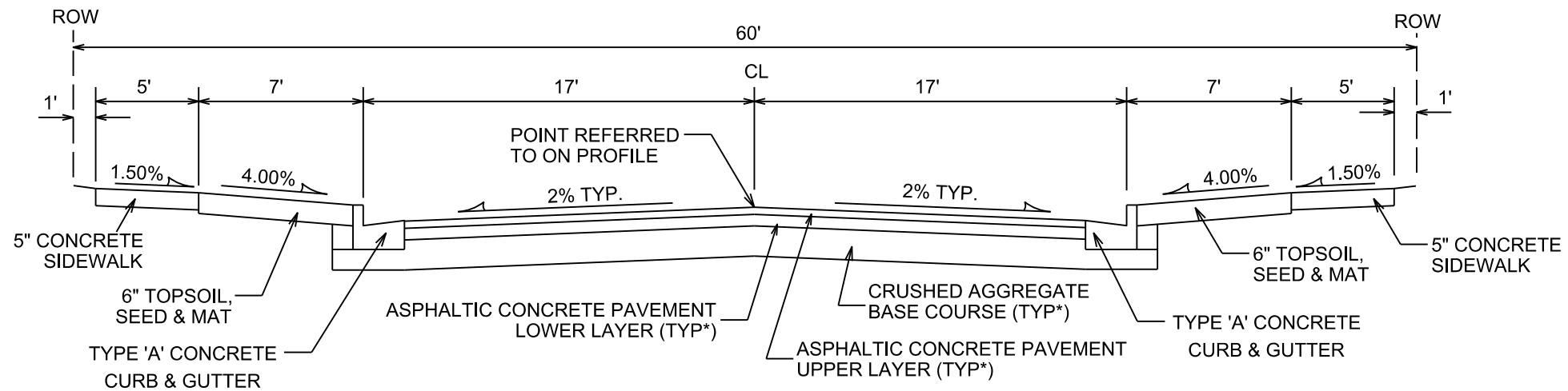
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

HAZY SKY PARKWAY
NOT TO SCALE



TYPICAL SECTION

QUIET LEAF DRIVE
NOT TO SCALE

NOTES:

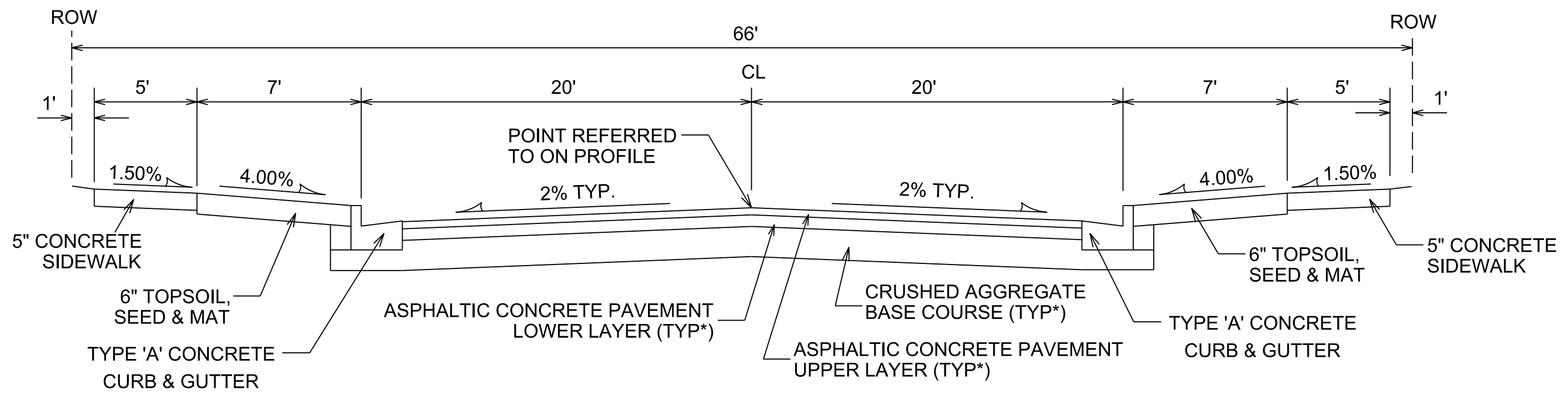
* HAZY SKY PARKWAY SHALL BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

† QUIET LEAF DRIVE SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 2

† CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H	3.50"	4 MT 58-28 S/H	2.00"



TYPICAL SECTION

OLD TIMBER PASS
NOT TO SCALE

NOTES:

- * OLD TIMBER PASS SHALL BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN †
- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 2

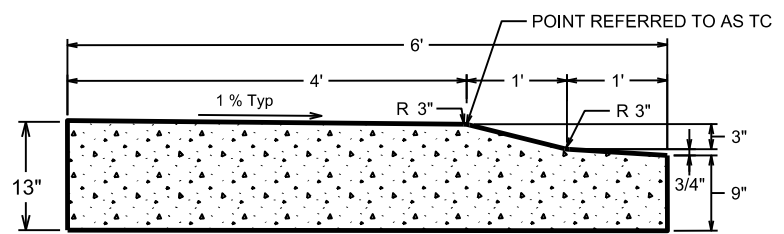
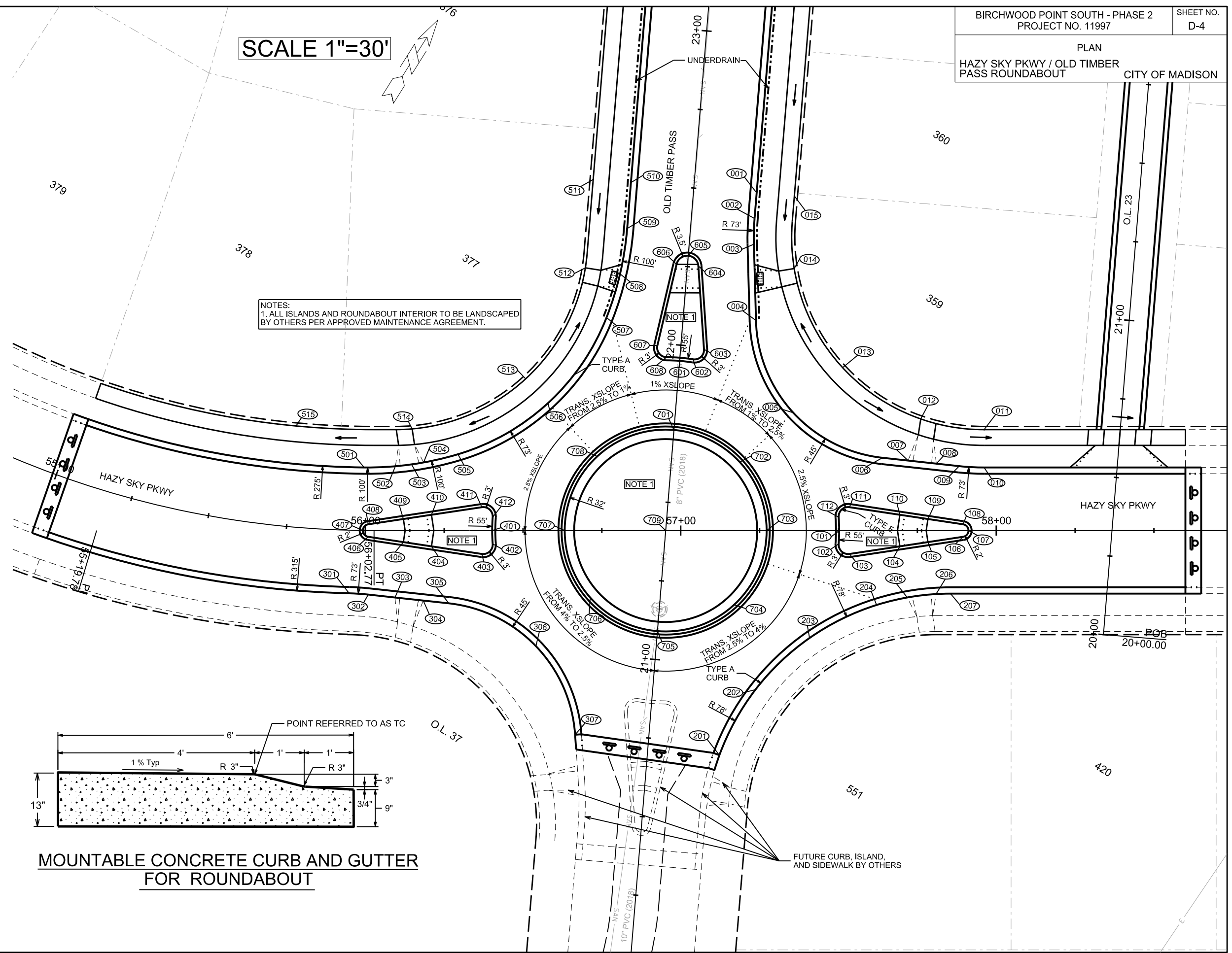
† CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H	3.50"	4 MT 58-28 S/H	2.00"

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

SCALE 1"=30'

NOTES:
1. ALL ISLANDS AND ROUNDABOUT INTERIOR TO BE LANDSCAPED BY OTHERS PER APPROVED MAINTENANCE AGREEMENT.



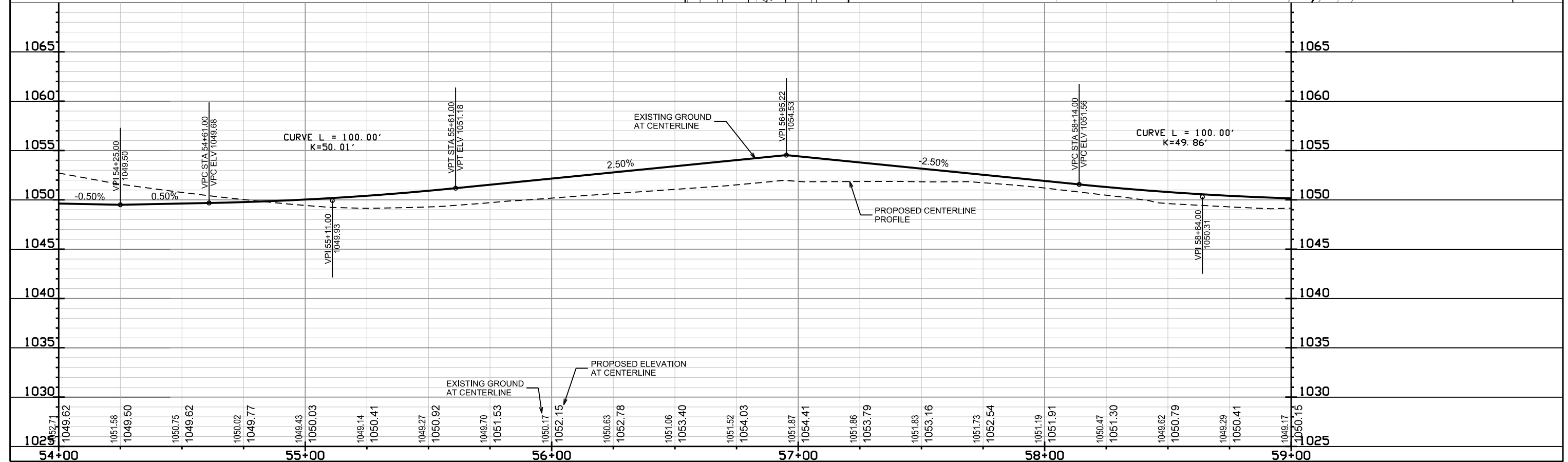
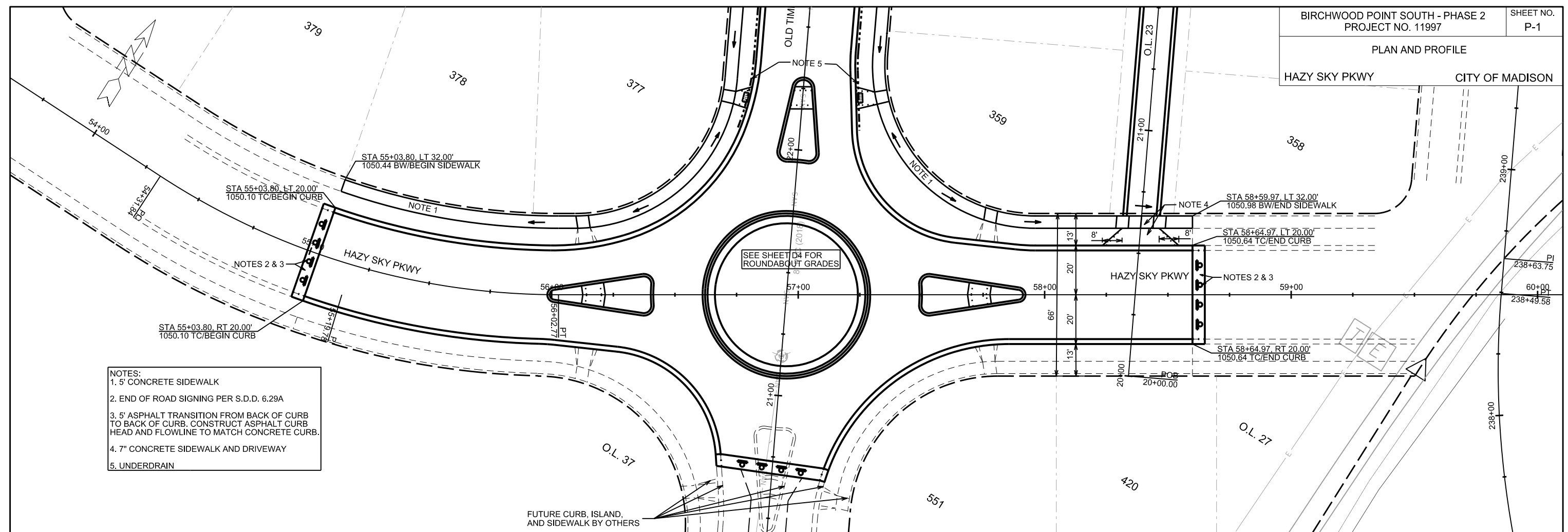
MOUNTABLE CONCRETE CURB AND GUTTER FOR ROUNDABOUT

FUTURE CURB, ISLAND, AND SIDEWALK BY OTHERS

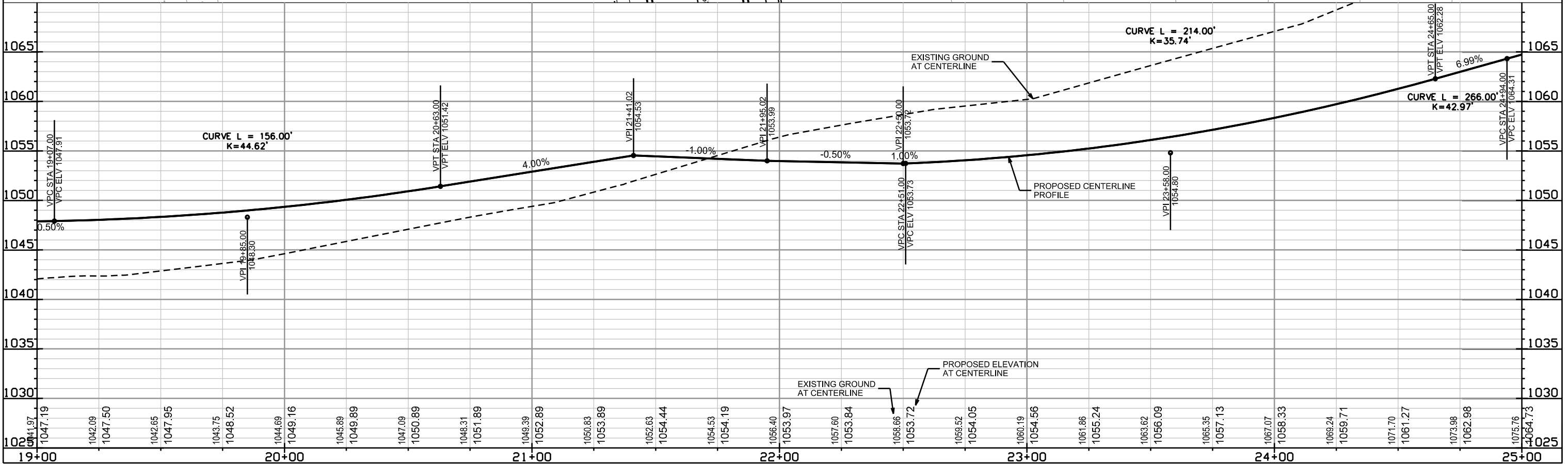
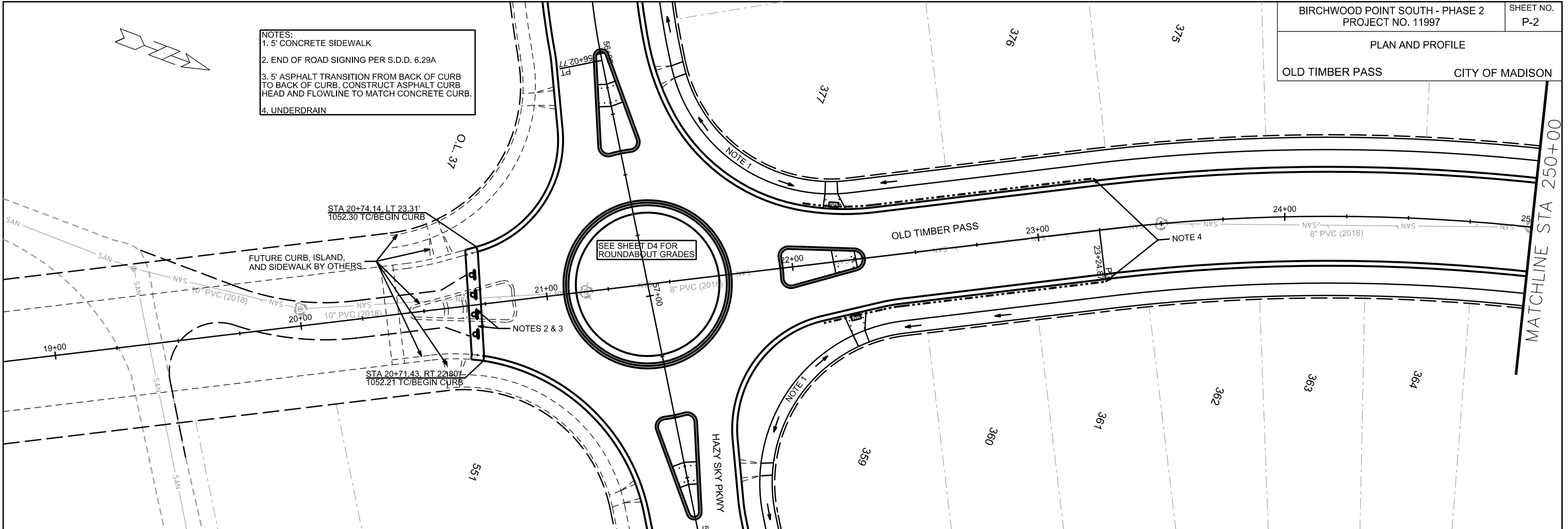
POINT	STATION	OFFSET	ELEVATION	COMMENT
*001	22+50.10	RT 20.00	1053.74	TC/LO POINT
*002	22+41.95	RT 20.00	1053.78	TC/PC
*003	22+33.82	RT 20.45	1053.82	TC/PT
*004	22+09.74	RT 23.08	1054.09	TC/PC/HI POINT
005	57+35.72	LT 37.33	1053.84	TC/MC
006	57+63.94	LT 23.08	1053.23	TC/PT
007	57+72.05	LT 22.19	1052.94	TC/**
008	57+81.01	LT 21.22	1052.60	TC/**
009	57+88.24	LT 20.43	1052.33	TC/PC
010	57+96.16	LT 20.00	1052.03	TC/PT
011	57+96.16	LT 32.00	1052.37	BW/BEGIN 4% TERR.
012	57+76.07	LT 35.40	1052.91	BW/KEY
013	57+51.29	LT 51.67	1054.23	BW/HI POINT
*014	22+27.17	RT 33.82	1053.96	BW/KEY/LO POINT
*015	22+50.10	RT 32.00	1054.08	BW/BEGIN 4% TERR.
101	57+50.22	CL	1053.74	TC/MC/ALI
102	57+50.06	RT 4.22	1053.72	TC/PRC
103	57+53.50	RT 7.42	1053.53	TC/PC
104	57+69.46	RT 5.01	1053.15	TC/**
105	57+78.36	RT 3.66	1052.94	TC/**
106	57+89.51	RT 1.98	1052.67	TC/PT
107	57+91.21	CL	1052.67	TC/MC/ALI
108	57+89.51	LT 1.98	1052.68	TC/PC
109	57+78.36	LT 3.66	1052.97	TC/**
110	57+69.46	LT 5.01	1053.20	TC/**
111	57+53.50	LT 7.42	1053.63	TC/PT
112	57+50.06	LT 4.22	1053.77	TC/PRC
*201	20+71.43	RT 22.80	1052.21	TC/PC/BEGIN CURB
*202	20+93.06	RT 32.49	1052.96	TC/QC
203	57+40.82	RT 34.08	1053.29	TC/MC/HI POINT
204	57+62.09	RT 23.60	1053.07	TC/QC
205	57+71.78	RT 21.22	1052.74	TC/**
206	57+80.92	RT 20.14	1052.44	TC/**
207	57+85.51	RT 20.00	1052.29	TC/PT
301	55+95.39	RT 20.00	1052.06	TC/PRC
302	56+01.06	RT 20.31	1052.22	TC/PT
303	56+09.43	RT 21.23	1052.45	TC/**
304	56+18.38	RT 22.20	1052.68	TC/**
305	56+26.48	RT 23.08	1052.89	TC/PC
306	56+54.08	RT 36.64	1053.19	TC/MC/HI POINT
*307	20+74.14	LT 23.31	1052.30	TC/PT/END CURB
401	56+40.22	CL	1053.74	TC/MC/ALI
402	56+40.38	RT 4.22	1053.67	TC/PRC
403	56+36.94	RT 7.42	1053.46	TC/PT
404	56+20.98	RT 5.01	1053.11	TC/**
405	56+12.08	RT 3.66	1052.91	TC/**
406	56+00.94	RT 1.98	1052.67	TC/PC
407	55+99.23	CL	1052.68	TC/MC/ALI
408	56+00.91	LT 1.97	1052.67	TC/PT
409	56+12.08	LT 3.66	1052.97	TC/**
410	56+20.98	LT 5.01	1053.20	TC/**
411	56+36.94	LT 7.42	1053.62	TC/PC
412	56+40.38	LT 4.22	1053.76	TC/PRC
501	55+99.40	LT 20.00	1052.16	TC/PCC
502	56+09.55	LT 20.40	1052.54	TC/**
503	56+14.67	LT 20.98	1052.73	TC/MC
504	56+18.48	LT 21.59	1052.88	TC/**
505	56+29.39	LT 24.19	1053.30	TC/PCC
506	56+57.91	LT 40.41	1053.85	TC/MC
*507	22+06.79	LT 24.21	1054.12	TC/PCC/HI POINT
*508	22+20.97	LT 21.06	1053.97	TC/MC
*509	22+35.51	LT 20.00	1053.81	TC/PT
*510	22+50.10	LT 20.00	1053.74	TC/LO POINT
*511	22+50.10	LT 32.00	1054.08	BW/BEGIN 4% TERR.
*512	22+21.99	LT 32.18	1053.94	BW/KEY/LO POINT
513	56+50.83	LT 48.11	1054.20	BW/HI POINT
514	56+14.85	LT 32.23	1052.70	BW/KEY
515	55+75.00	LT 32.00	1051.89	BW/END 4% TERR.
*601	21+96.02	CL	1054.55	TC/MC/ALI
*602	21+95.85	RT 4.22	1054.52	TC/PRC
*603	21+99.29	RT 7.42	1054.41	TC/PT
*604	22+25.49	RT 3.46	1054.33	TC/PC
*605	22+28.47	CL	1054.38	TC/MC/ALI
*606	22+25.45	LT 3.47	1054.33	TC/PT
*607	21+99.29	LT 7.42	1054.43	TC/PC
*608	21+95.85	LT 4.22	1054.53	TC/PRC
*701	21+73.02	CL	1054.50	TC/ALI/HI POINT
702	57+18.73	LT 21.71	1054.25	TC/MC
703	57+27.22	CL	1053.99	TC/ALI
704	57+16.90	RT 23.53	1053.74	TC/MC
*705	21+09.02	CL	1053.48	TC/ALI
706	56+71.29	RT 21.25	1053.74	TC/MC
707	56+63.22	CL	1053.99	TC/ALI
708	56+73.51	LT 23.51	1054.25	TC/MC
709	56+95.22	CL	1054.53	TC/ALI INTERSECT

NOTES:
*OLD TIMBER PASS ALIGNMENT USED FOR STATION AND OFFSET
**CURB OPENING FOR FUTURE RAMP

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



- NOTES:
- 5' CONCRETE SIDEWALK
 - END OF ROAD SIGNING PER S.D.D. 6.29A
 - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
 - UNDERDRAIN

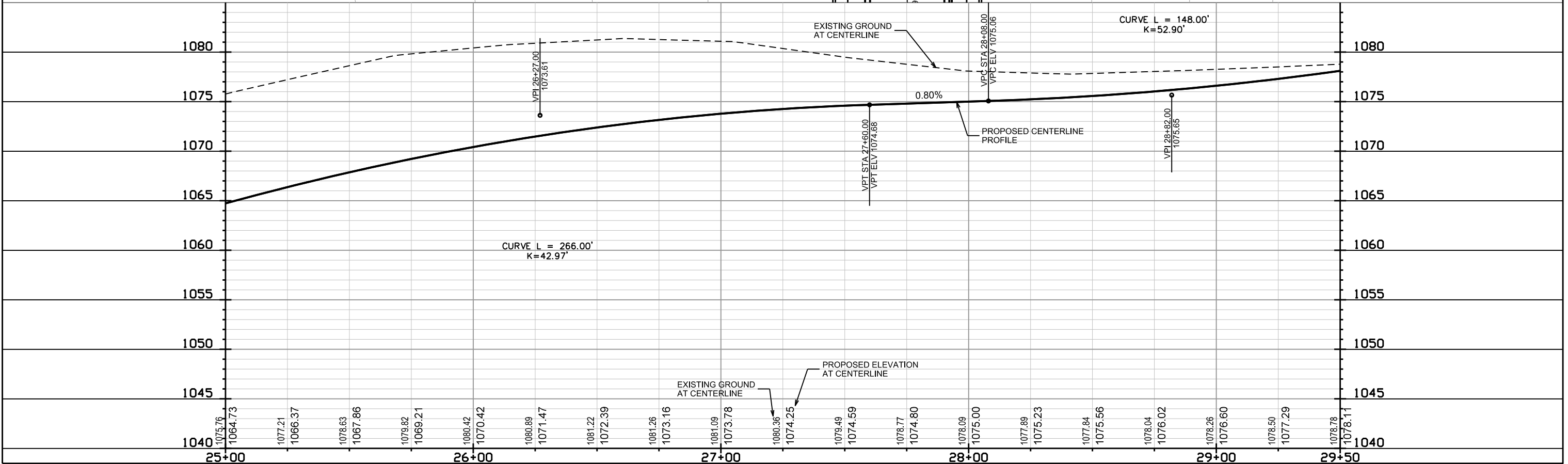
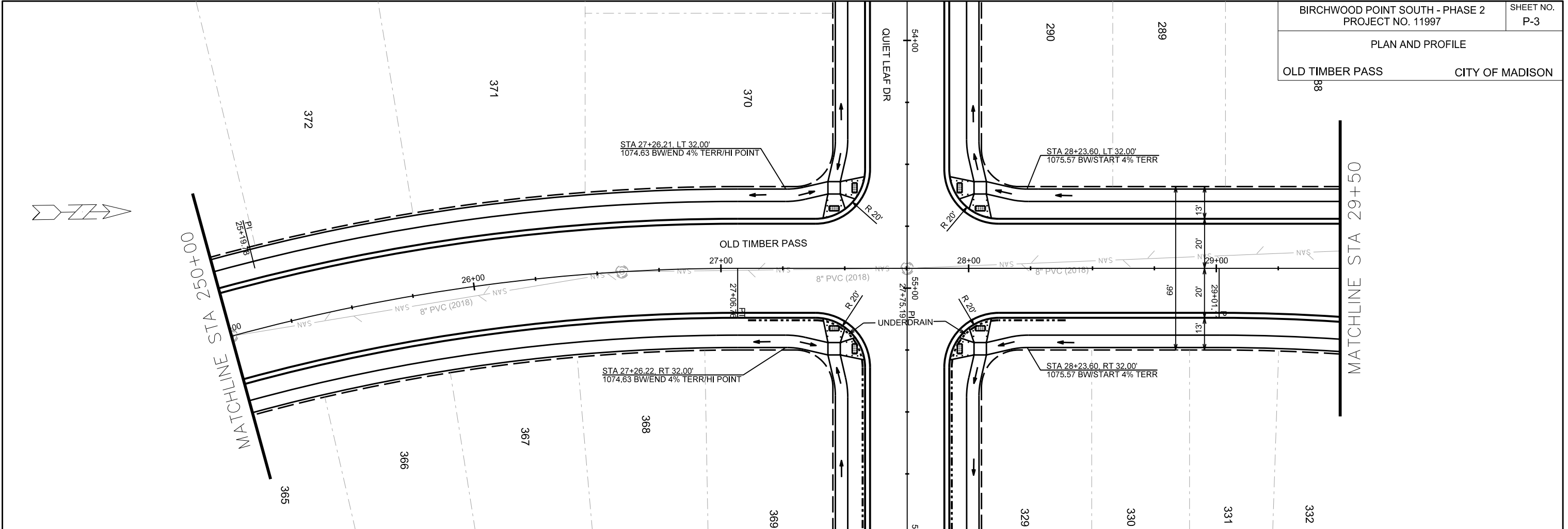


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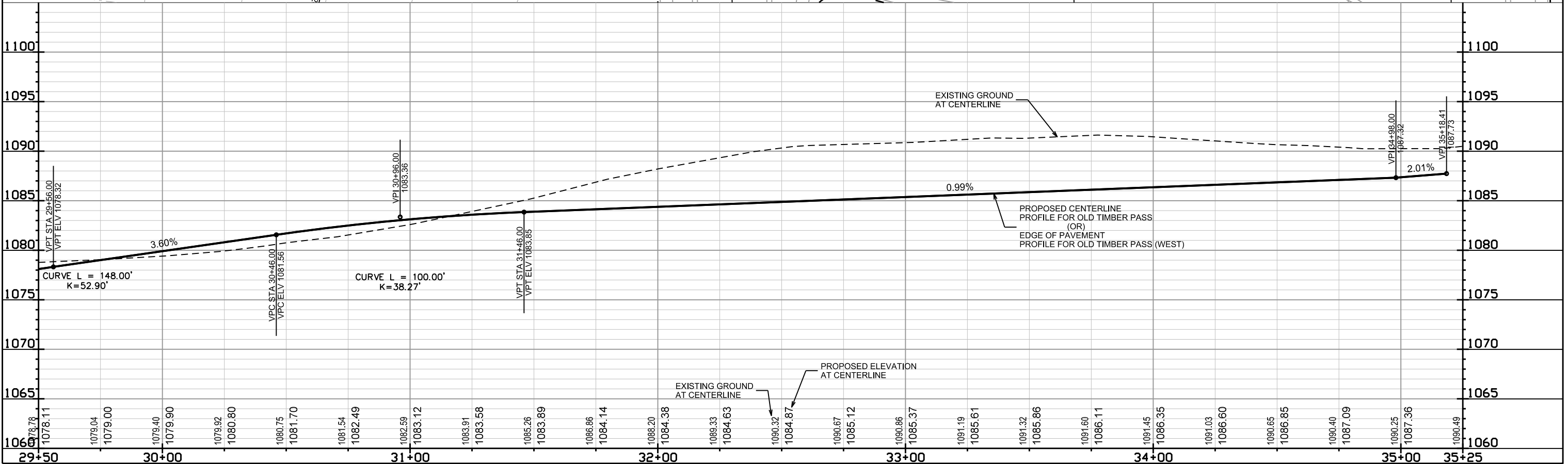
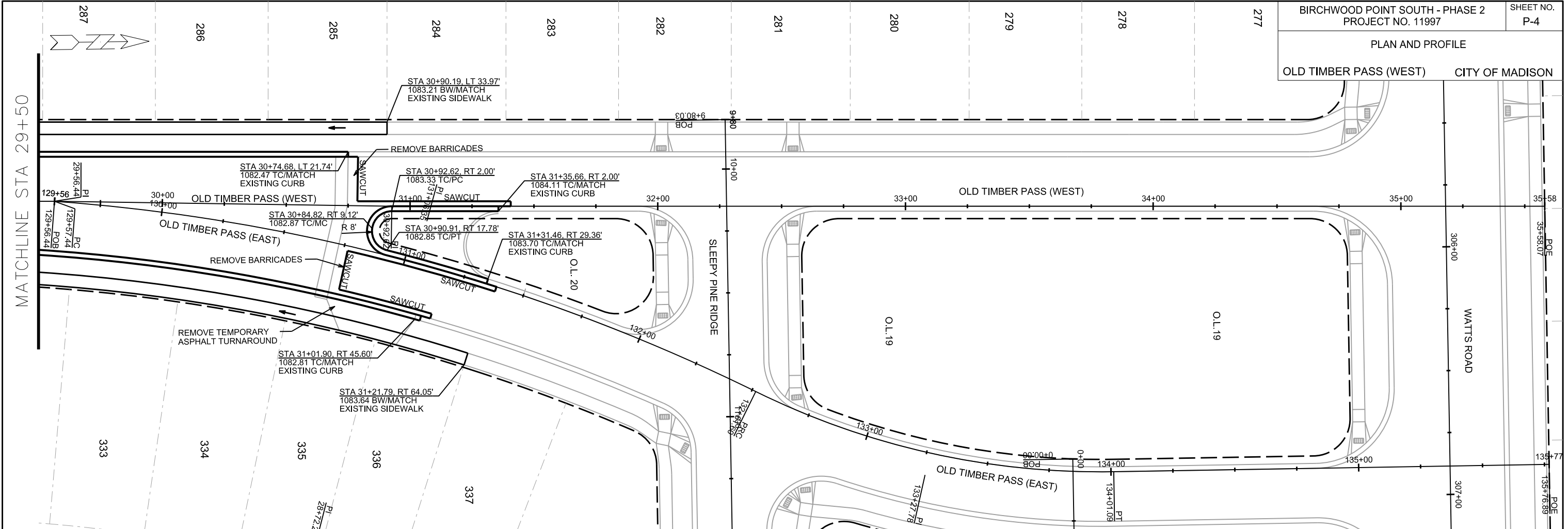


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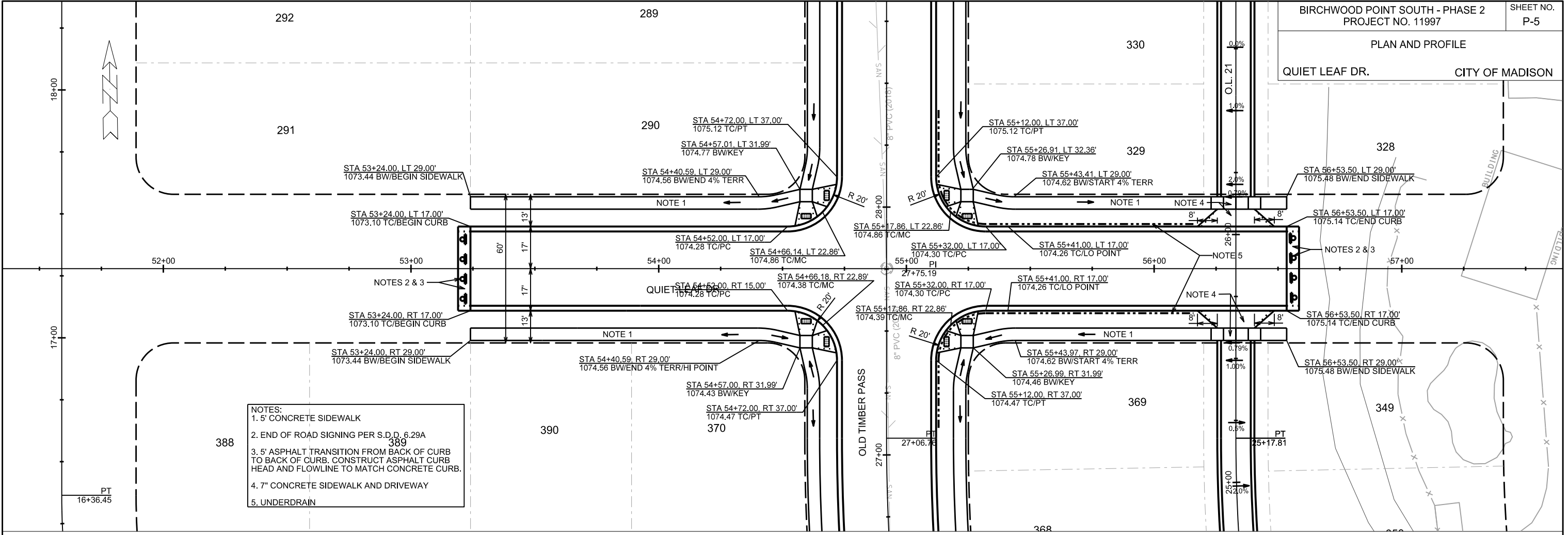


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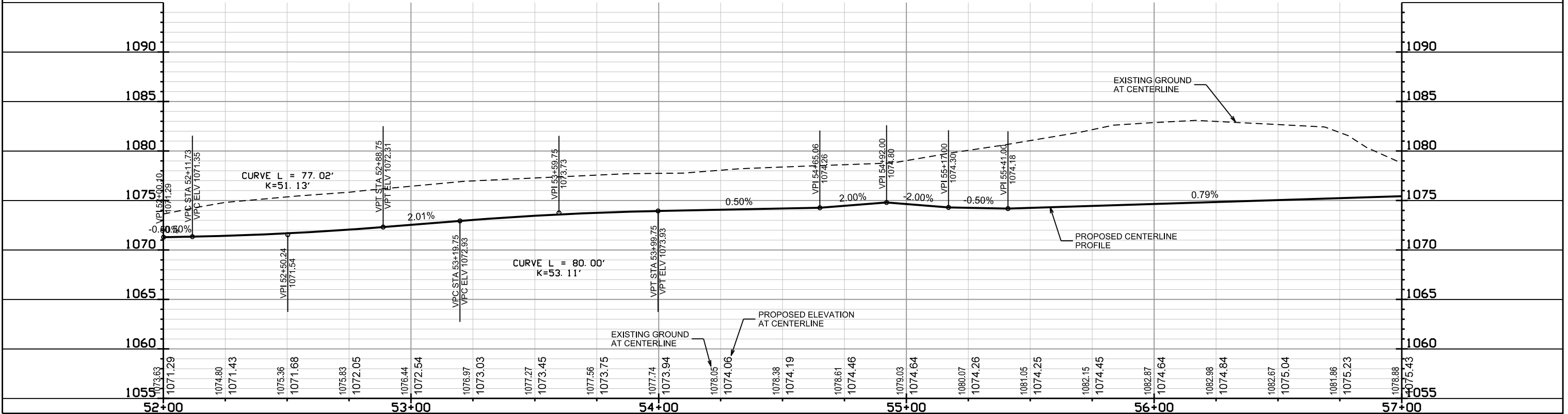
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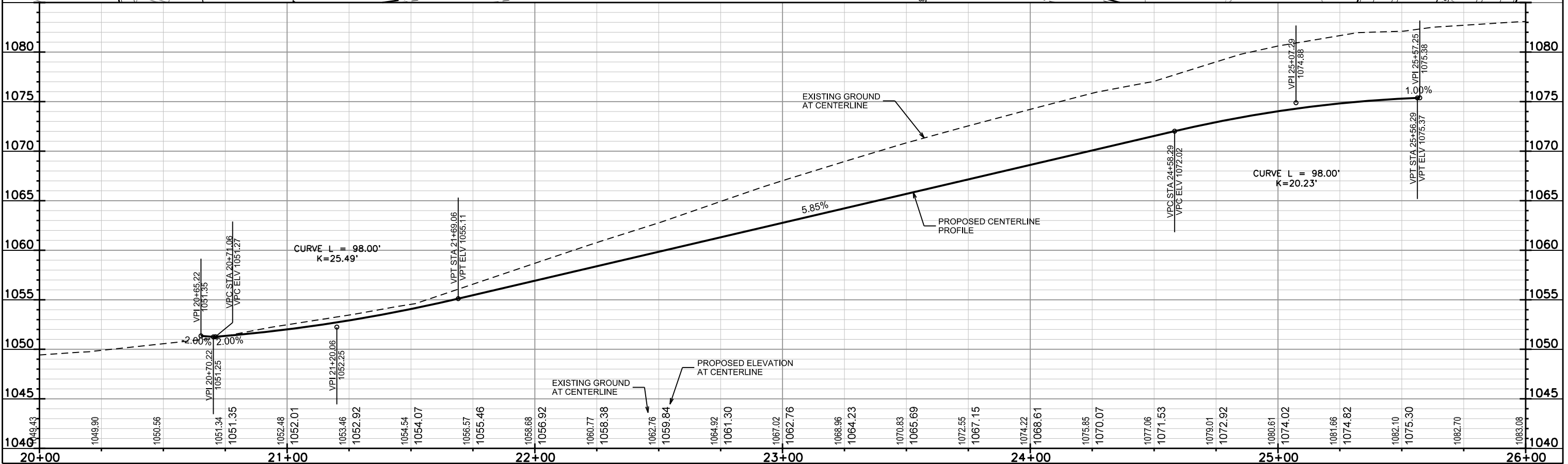
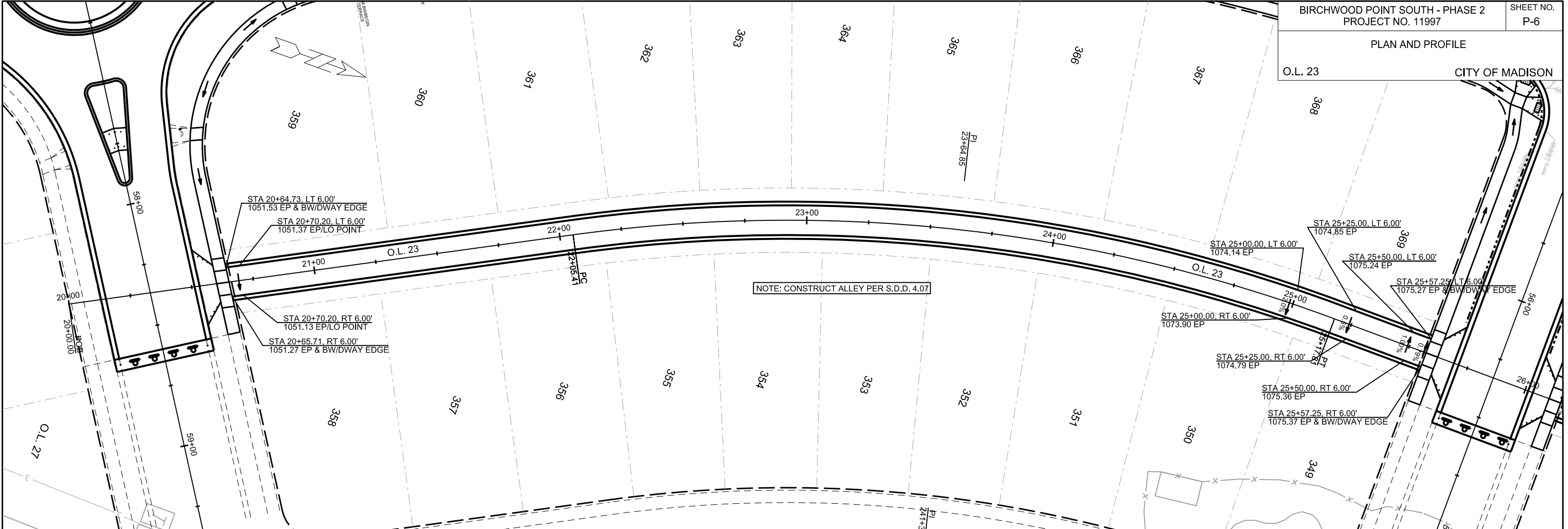
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- NOTES:
- 5' CONCRETE SIDEWALK
 - END OF ROAD SIGNING PER S.D.D. 6.29A
 - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
 - 7" CONCRETE SIDEWALK AND DRIVEWAY
 - UNDERDRAIN





PLOT SCALE:

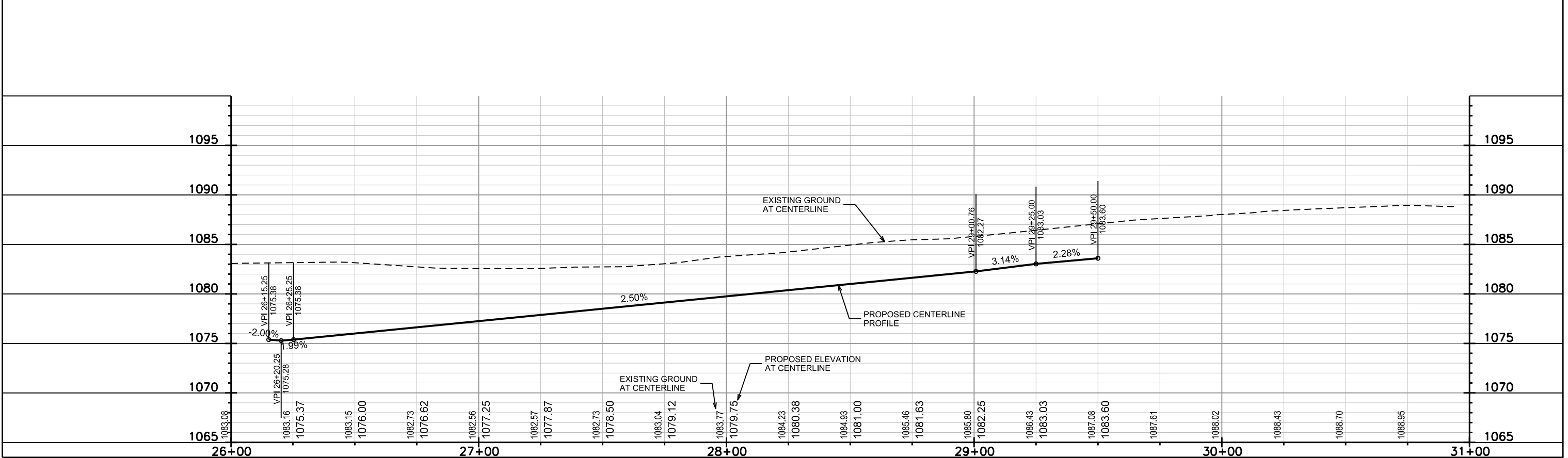
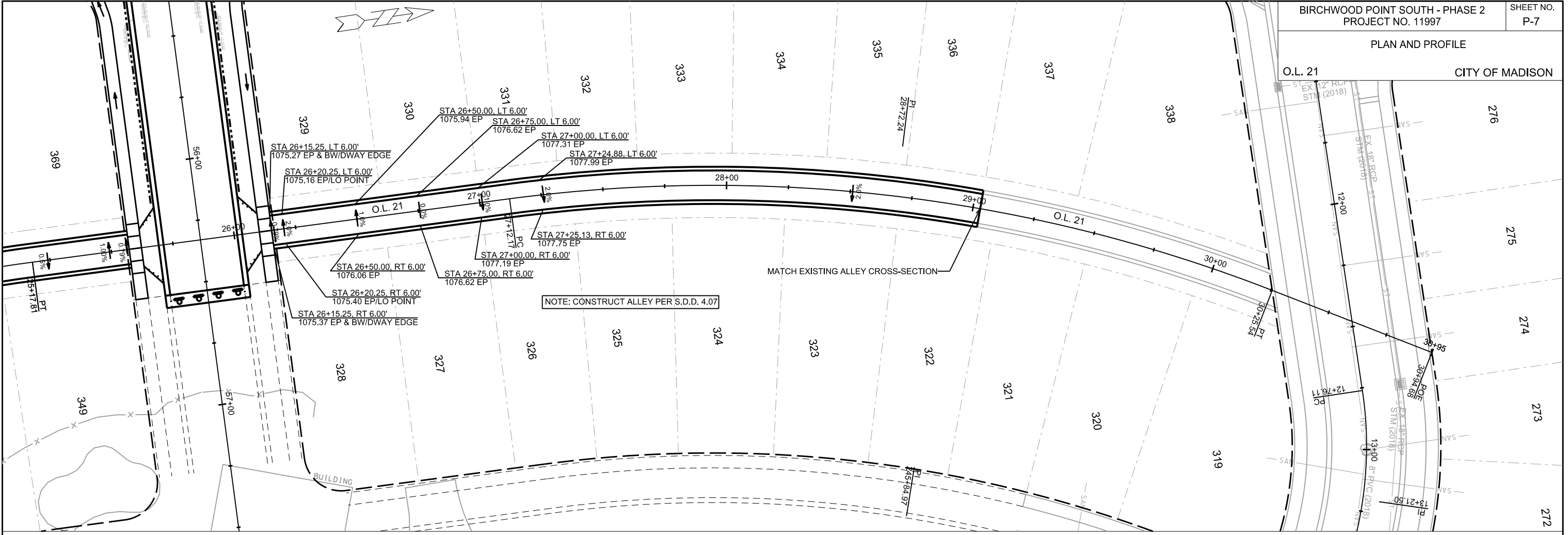
PLOT NAME:

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

CITY OF MADISON

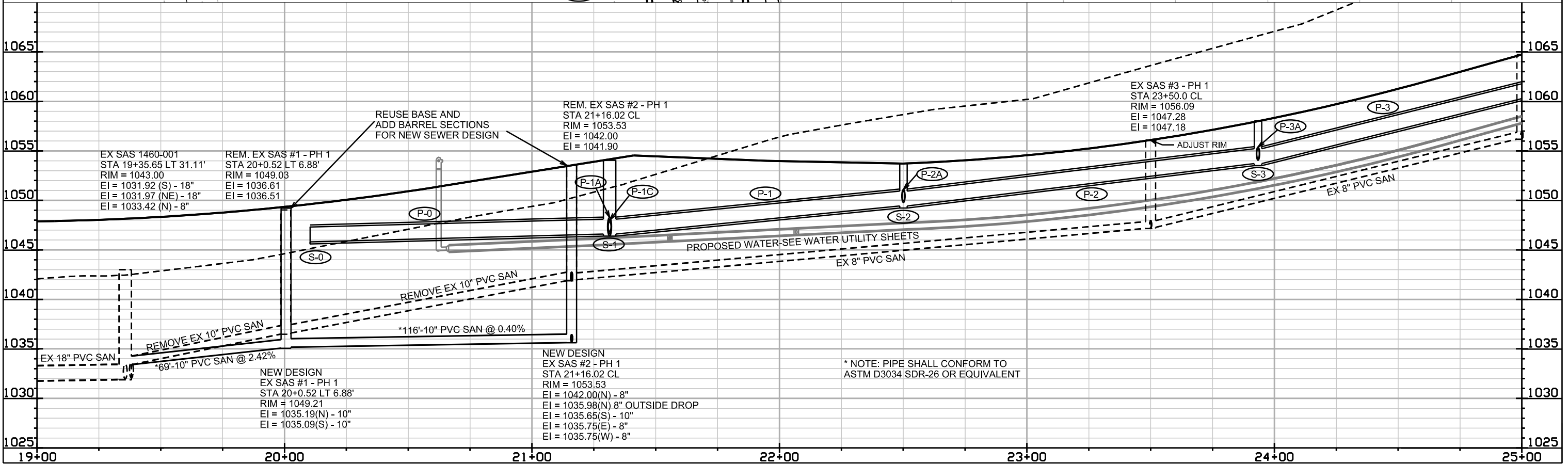
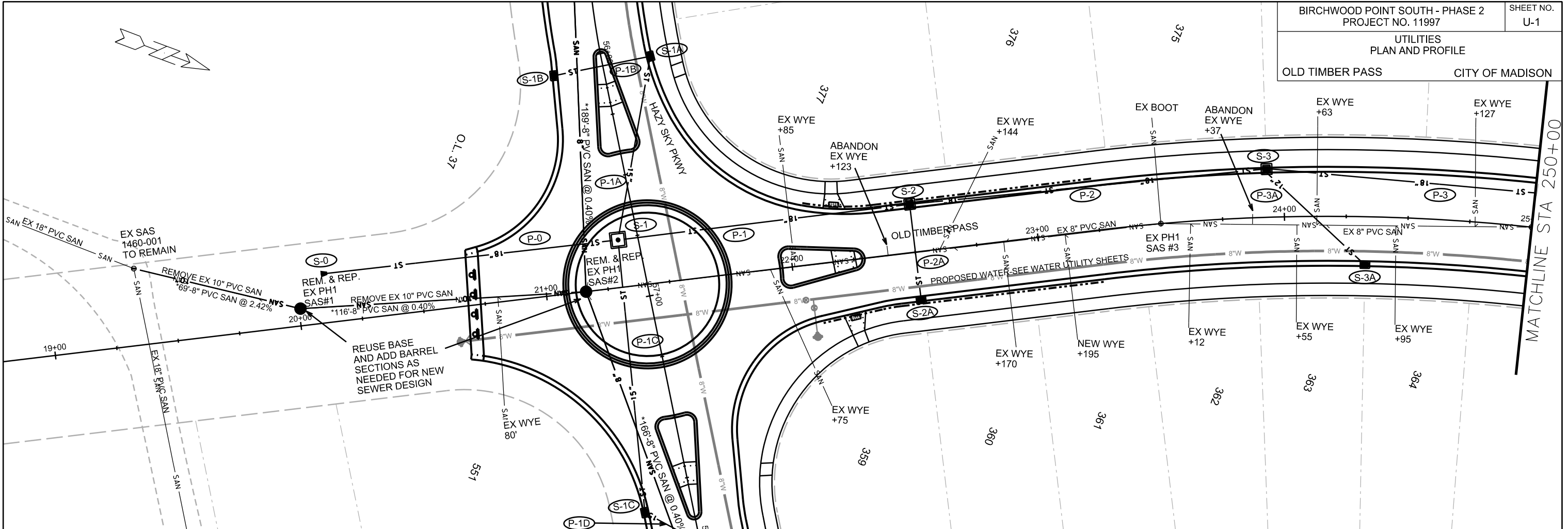


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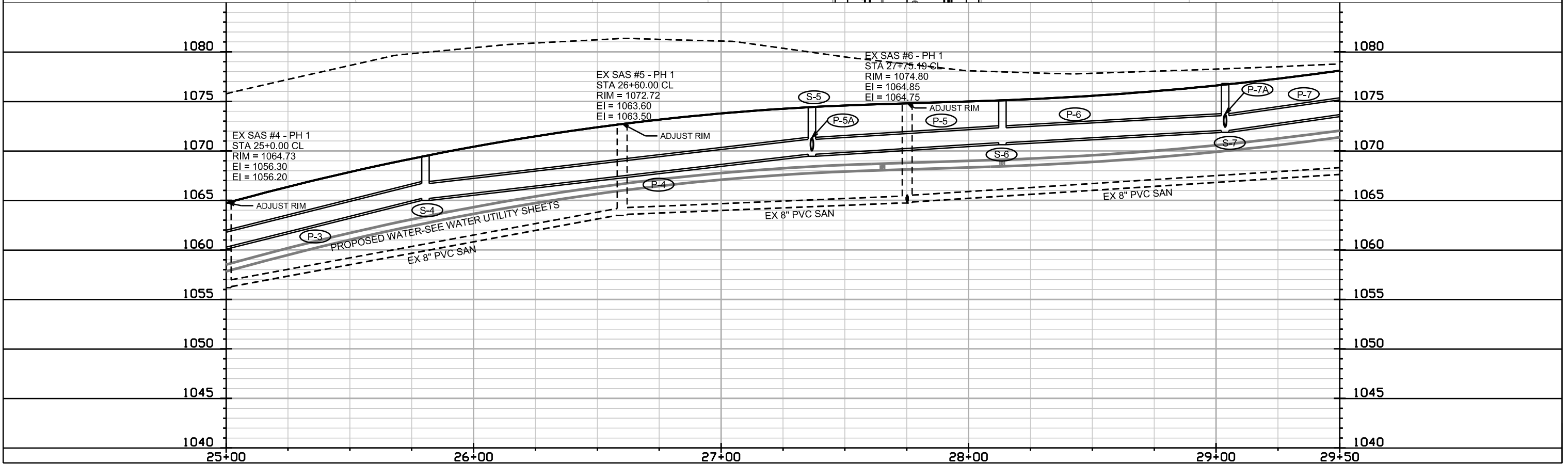
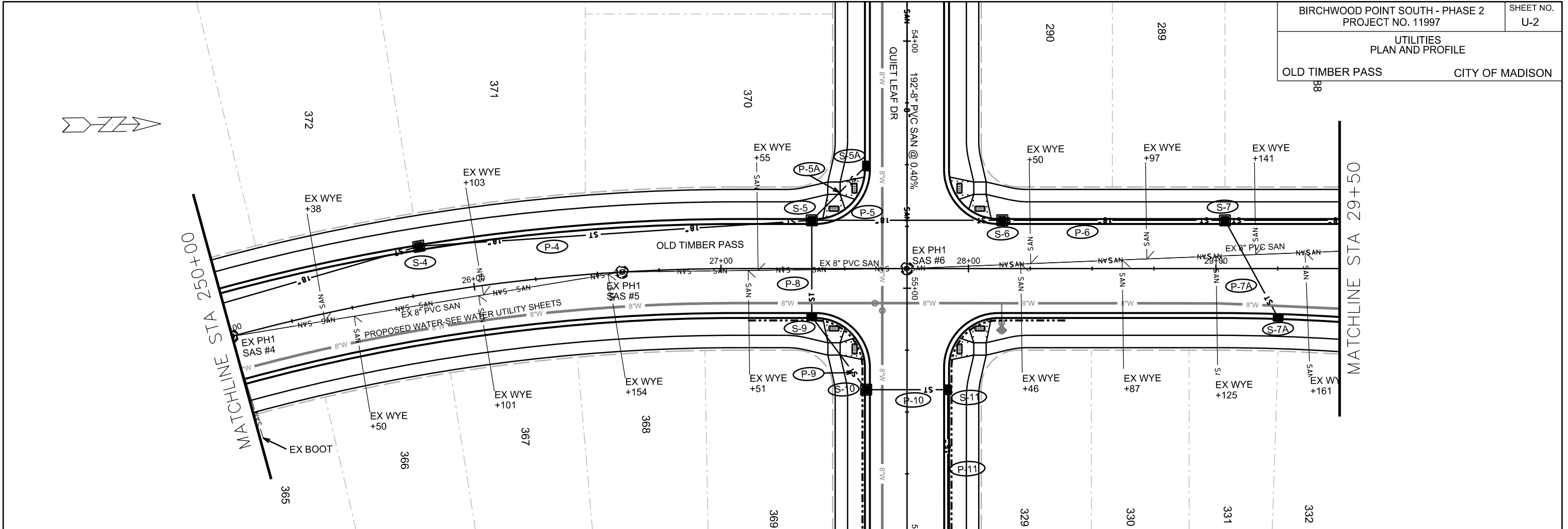


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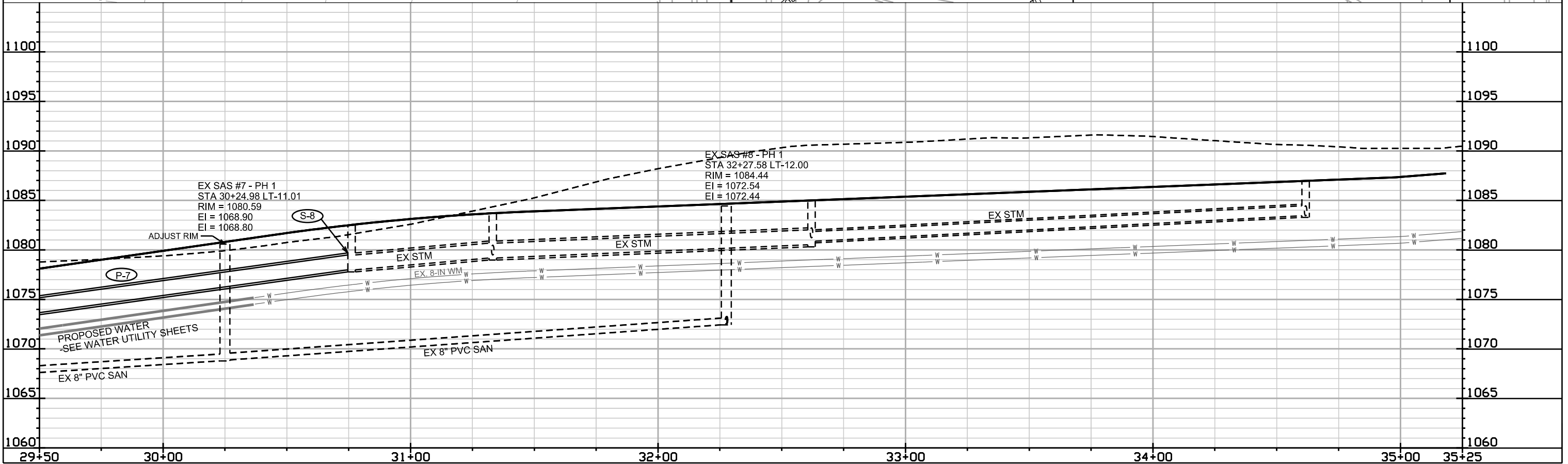
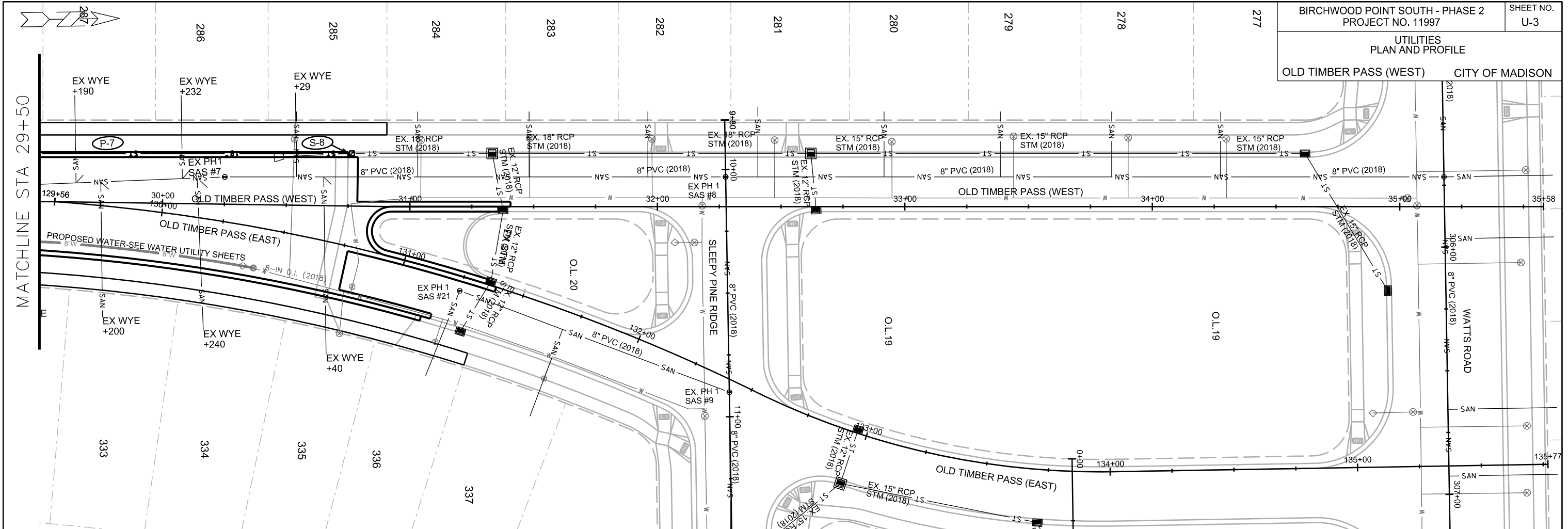


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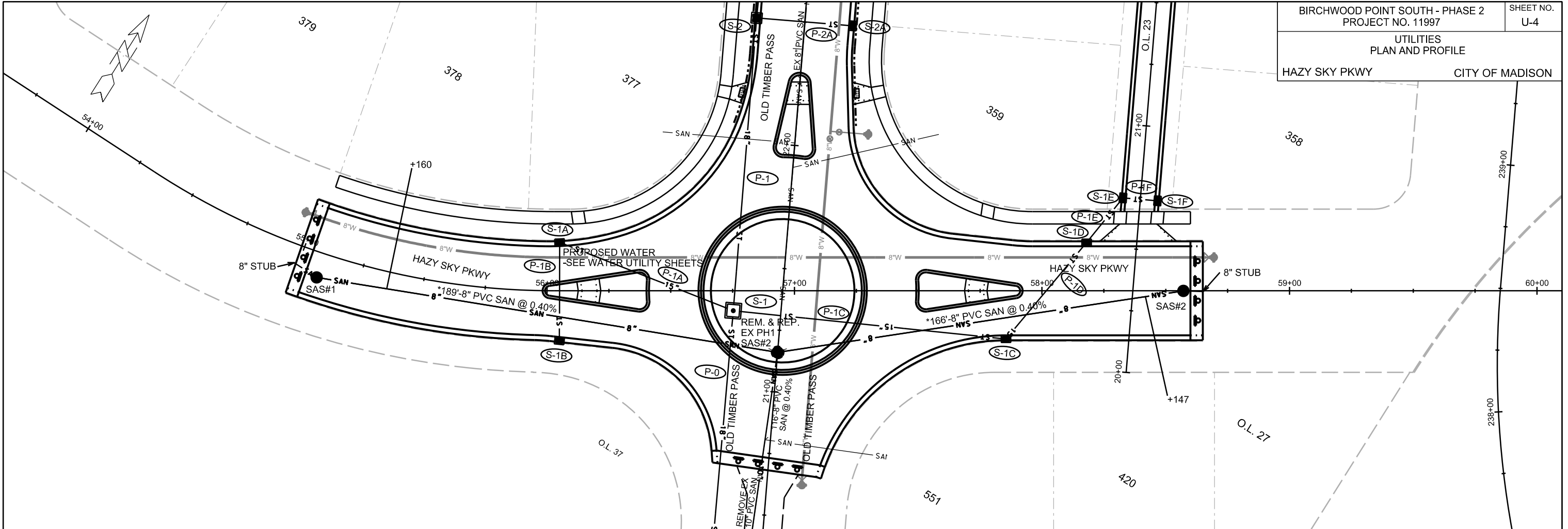
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 29+50
 PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SAS#1
STA 55+08.48 RT 10.04'
RIM = 1049.93
EI = 1036.51(NE)
EI = 1036.61(W) - 8" STUB

REM. EX SAS #2
STA 21+16.02 CL
RIM = 1053.53
EI = 1042.00(NE)
EI = 1042.00(SW)
EI = 1042.00(NW)
EI = 1041.90(SE)

NEW DESIGN
EX SAS#2 - PH 1
STA 21+16.02 CL
RIM=1053.53
EI = 1042.00 (N)
EI = 1035.98 (N) - 8" OUTSIDE DROP
EI = 1035.65 (S) - 10"
EI = 1035.75 (W) - 8"
EI = 1035.75(E) - 8"

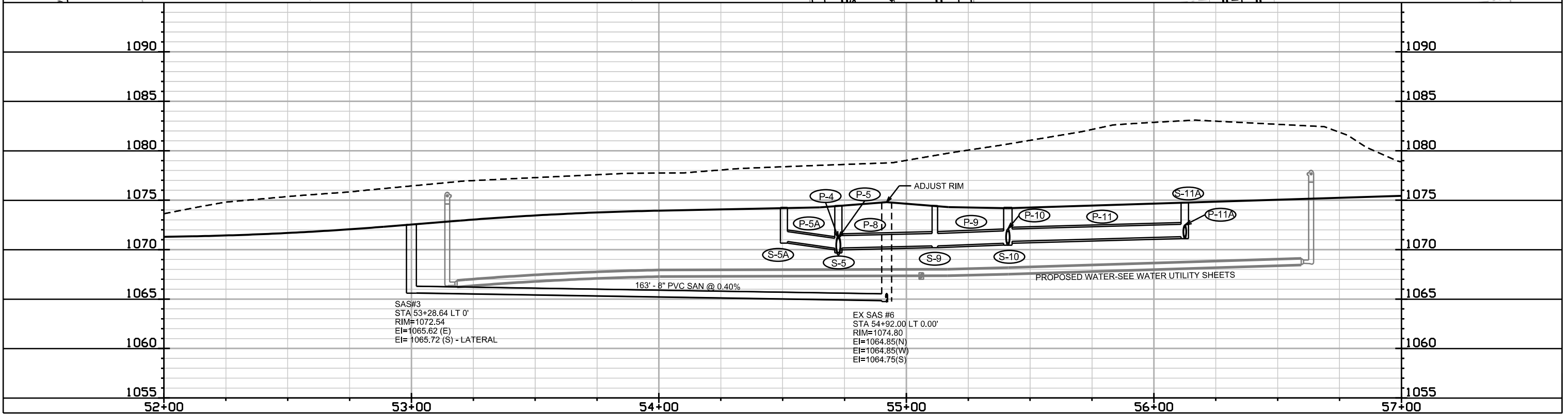
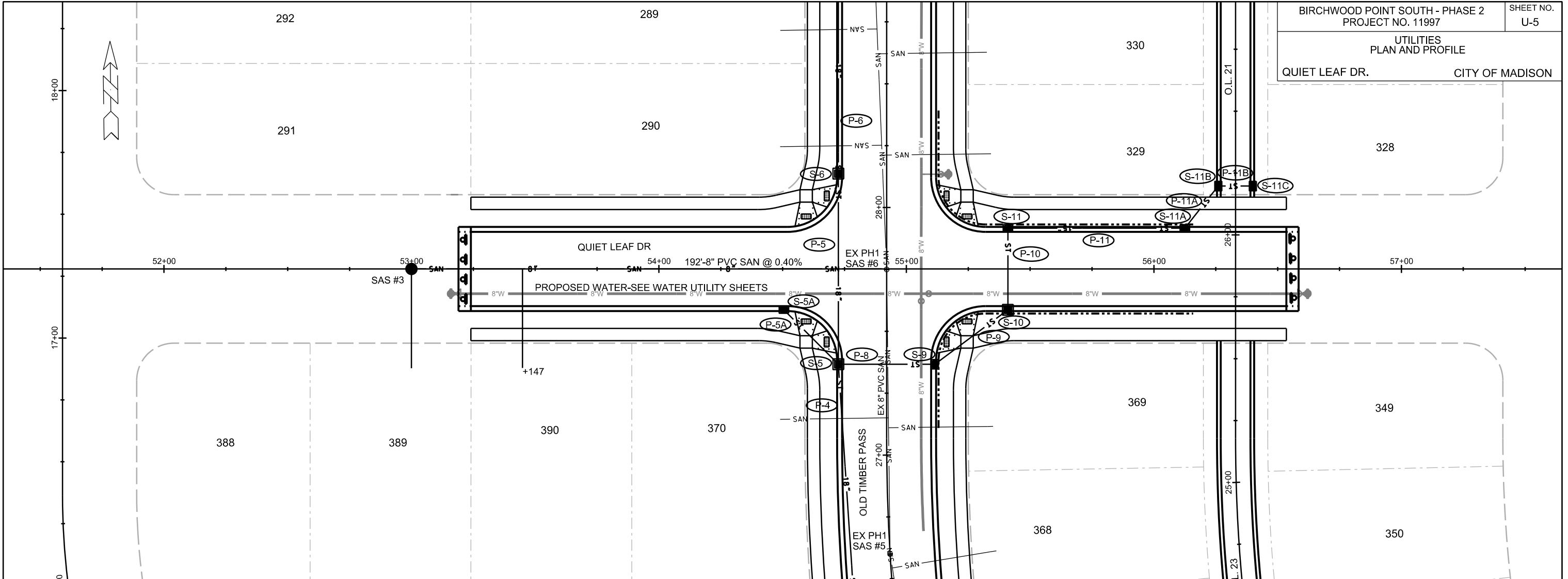
SAS#2
STA 58+57.13 RT 0'
RIM = 1050.67
EI = 1036.41(SW)
EI = 1036.51(E) - 8" STUB

* NOTE: PIPE SHALL CONFORM TO
ASTM D3034 SDR-26 OR EQUIVALENT

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SAS#3
STA 53+28.64 LT 0'
RIM=1072.54
EI=1065.62 (E)
EI=1065.72 (S) - LATERAL

EX SAS #6
STA 54+92.00 LT 0.00'
RIM=1074.80
EI=1064.85(N)
EI=1064.85(W)
EI=1064.75(S)

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

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION OFFSET	TOP OF CASTING	E.I.	DEPTH	NOTES
HAZY SKY PARKWAY						
SAS #1	55+08.48	RT-10.04'	1049.93	1036.51	13.42	[1]
SAS #2	58+57.13	CL	1050.67	1036.41	14.26	-
EX SAS#2 - PH 121+16.02		CL	1053.53	1035.65	17.88	[2]
QUIET LEAF DRIVE						
SAS #3	53+28.64	CL	1072.54	1065.62	6.92	-
OLD TIMBER PASS						
EX SAS#1 - PH 120+00.52		LT-6.88'	1049.21	1035.09	14.12	[2]

SANITARY STRUCTURE REMOVALS

SAS NO.	STATION	LOCATION OFFSET	TOP OF CASTING	E.I.	DEPTH	NOTES
EX SAS#1 - PH 120+00.52		LT-6.88'	1049.03	1036.51	12.52	-
EX SAS#2 - PH 121+16.02		CL	1053.53	1041.9	11.63	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
HAZY SKY PARKWAY								
EX PH1 SAS#2	SAS #1	1035.75	1036.51	189	0.40%	8"	SDR-26	-
EX PH1 SAS#2	SAS #2	1035.75	1036.41	166	0.40%	8"	SDR-26	-
QUIET LEAF DRIVE								
EX PH1 SAS #6	SAS #3	1064.85	1065.62	192	0.40%	8"	SDR-35	-
OLD TIMBER PASS								
EX 1460-001	EX PH1 SAS#1	1033.42	1035.09	69	2.42%	10"	SDR-26	-
EX PH 1 SAS#1	EX PH1 SAS#2	1035.19	1035.65	116	0.40%	10"	SDR-26	-

REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
EX 1460-001	EX PH1 SAS#1	69	10"	SDR-35	-
EX PH 1 SAS#1	EX PH1 SAS#2	116	10"	SDR-35	-

NOTE:

- [1] INSTALL INTERNAL CHIMNEY SEAL IN ACCORDANCE WITH S.D.D. 5.7.17
- [2] REUSE BASE AND ADD BARREL SECTIONS FOR NEW SEWER DESIGN

STORM SEWER SCHEDULE

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
OLD TIMBER PASS							
S-0	20+10.38	LT-19.88	18" APRON END	-	1045.81	-	W/ GATE
S-1	21+31.36	LT-19.24	5X5 SAS	1054.05	1047.60	6.45	W/ R-1550
S-2	22+50.10	LT-19.50	3X3 SAS	1053.74	1049.44	4.30	LP; W/ R-3067-7004-VB; [1]
S-2A	22+50.10	RT-19.50	H INLET	1053.74	1050.16	3.58	LP; W/ R-3067-7004-VB; [1]
S-3	23+93.39	LT-19.50	3X3 SAS	1058.02	1053.72	4.30	W/ R-3067-7004-V
S-3A	24+32.92	RT-19.50	H INLET	1060.30	1054.54	5.76	W/ R-3067-7004-V
S-4	25+80.53	LT-19.50	3X3 SAS	1069.50	1065.20	4.30	W/ R-3067-7004-V
S-5	27+36.69	LT-19.50	3X3 SAS	1074.45	1069.66	4.79	W/ R-3067-7004-V
S-6	28+13.68	LT-19.50	3X3 SAS	1075.13	1070.83	4.30	W/ R-3067-7004-V
S-7	29+03.69	LT-19.50	3X3 SAS	1076.80	1072.06	4.74	W/ R-3067-7004-V
S-7A	29+25.17	RT-19.89	H INLET	1077.39	1072.81	4.58	W/ R-3067-7004-V
S-8	30+74.68	LT-21.24	TAP	-	1077.99	-	-
S-9	27+36.69	RT-19.50	H INLET	1074.45	1070.38	4.07	W/ R-3067-7004-V
HAZY SKY PARKWAY							
S-1A	56+05.08	LT-19.58	H INLET	1052.32	1048.25	4.07	W/ R-3067-7004-V, FP
S-1B	56+04.86	RT-20.25	H INLET	1052.37	1048.73	3.64	W/ R-3067-7004-V
S-1C	57+85.46	RT-19.50	H INLET	1052.29	1047.13	5.16	W/ R-3067-7004-V, FP
S-1D	58+18.00	LT-19.50	H INLET	1051.57	1047.42	4.15	W/ R-3067-7004-V, FP
QUIET LEAF DRIVE							
S-5A	54+50.50	RT-16.50	H INLET	1074.27	1070.82	3.45	W/ R-3067-7004-V
S-10	55+41.00	RT-16.50	3X3 SAS	1074.26	1070.64	3.62	W/ R-3067-7004-V
S-11	55+41.01	LT-16.50	H INLET	1074.26	1070.83	3.43	W/ R-3067-7004-V
S-11A	56+12.50	RT-16.50	H INLET	1074.74	1071.30	3.44	LP; W/ R-3362-L; PER SDD 5.7.33; [1], FP
O.L. 23							
S-1E	20+70.2	LT-6.75	H INLET	1051.37	1047.55	3.82	LP; W/ R-3362-L; FP
S-1F	20+70.2	RT-6.75	H INLET	1051.13	1047.63	3.50	LP; W/ R-3362-L
O.L. 21							
S-11B	26+19.75	LT-6.75	H INLET	1075.16	1071.66	3.50	LP; W/ R-3362-L
S-11C	26+19.75	RT-6.75	H INLET	1075.40	1071.74	3.66	LP; W/ R-3362-L

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
OLD TIMBER PASS										
P-0	S-0	S-1	1045.81	1046.60	121.0	118.5	0.67%	18"	TYPE I	
P-1	S-1	S-2	1046.60	1049.44	118.7	114.7	2.48%	18"	TYPE I	
P-2	S-2	S-3	1049.44	1053.72	143.5	142.0	3.01%	18"	TYPE I	
P-2A	S-2	S-2A	1049.94	1050.16	39.0	36.5	0.60%	12"	TYPE I	
P-3	S-3	S-4	1053.72	1065.20	189.9	188.4	6.09%	18"	TYPE I	
P-3A	S-3	S-3A	1054.22	1054.54	54.5	53.0	0.60%	12"	TYPE I	
P-4	S-4	S-5	1065.20	1069.66	159.1	156.1	2.86%	18"	TYPE I	
P-5	S-5	S-6	1069.66	1070.83	77.0	74.0	1.58%	18"	TYPE I	
P-5A	S-5	S-5A	1070.16	1070.82	31.1	27.6	2.39%	12"	TYPE I	
P-6	S-6	S-7	1070.83	1072.06	90.0	87.0	1.41%	18"	TYPE I	
P-7	S-7	S-8	1072.06	1077.99	171.6	170.1	3.49%	18"	TYPE I	
P-7A	S-7	S-7A	1072.56	1072.81	44.9	42.0	0.60%	12"	TYPE I	
P-8	S-5	S-9	1070.16	1070.38	39.0	36.5	0.60%	15"	TYPE I	
P-9	S-9	S-10	1070.38	1070.64	36.8	33.7	0.77%	15"	TYPE I	
HAZY SKY PARKWAY										
P-1A	S-1	S-1A	1046.85	1048.25	75.4	71.2	1.97%	15"	TYPE I	
P-1B	S-1A	S-1B	1048.25	1048.73	39.8	37.8	1.27%	12"	TYPE I	
P-1C	S-1	S-1C	1046.60	1047.13	110.8	106.8	0.50%	15"	TYPE I	
P-1D	S-1C	S-1D	1047.13	1047.42	50.8	48.2	0.60%	15"	TYPE I	
P-1E	S-1D	S-1E	1047.42	1047.55	23.3	20.3	0.64%	12"	TYPE I	
QUIET LEAF DRIVE										
P-10	S-10	S-11	1070.64	1070.83	33.0	30.5	0.62%	15"	TYPE I	
P-11	S-11	S-11A	1070.83	1071.30	71.5	68.5	0.69%	15"	TYPE I	
P-11A	S-11A	S-11B	1071.30	1071.66	21.7	18.8	1.91%	12"	TYPE I	
O.L. 23										
P-1F	S-1E	S-1F	1047.55	1047.63	14.0	12.0	0.67%	12"	TYPE I	
O.L. 21										
P-11B	S-11B	S-11C	1071.66	1071.74	14.0	12.0	0.67%	12"	TYPE I	

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

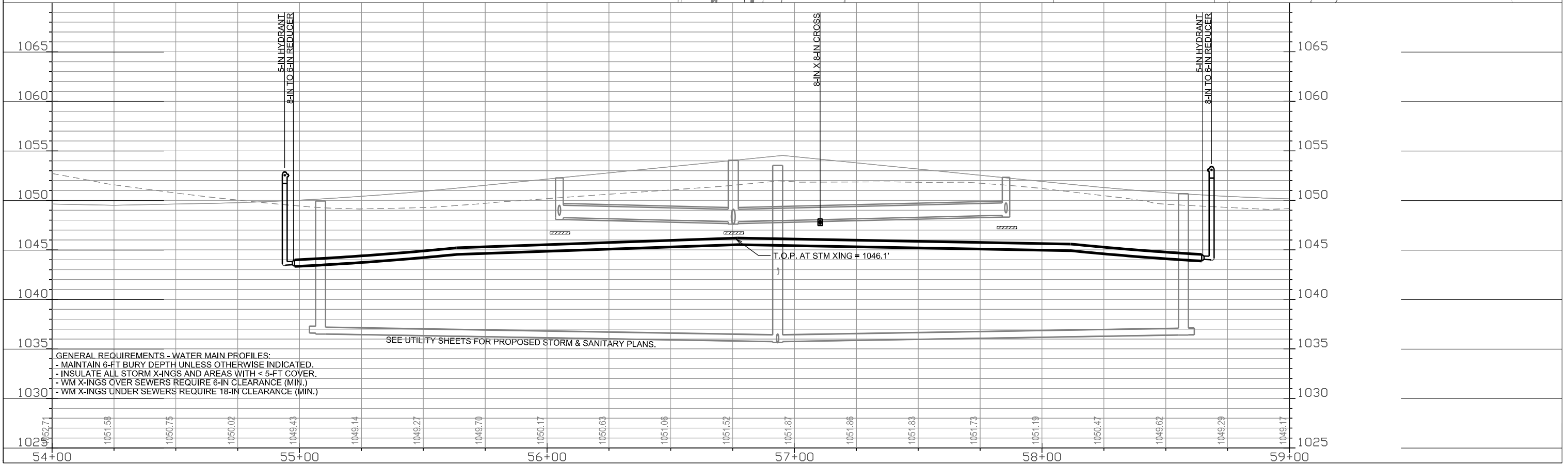
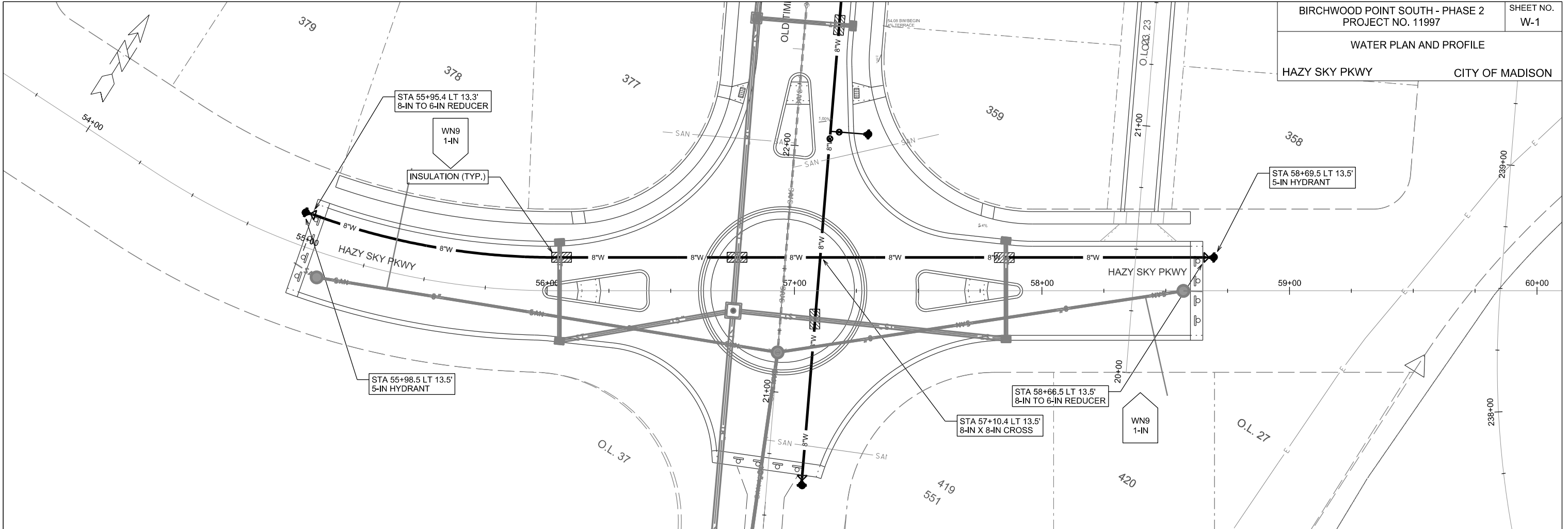
SPECIFIC NOTES

[1] INSTALL 2" PVC DRAIN PIPE PER CITY OF MADISON S.D.D. 5.7.7A

STANDARD NOTES:

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

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT MATT ALLIE OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.



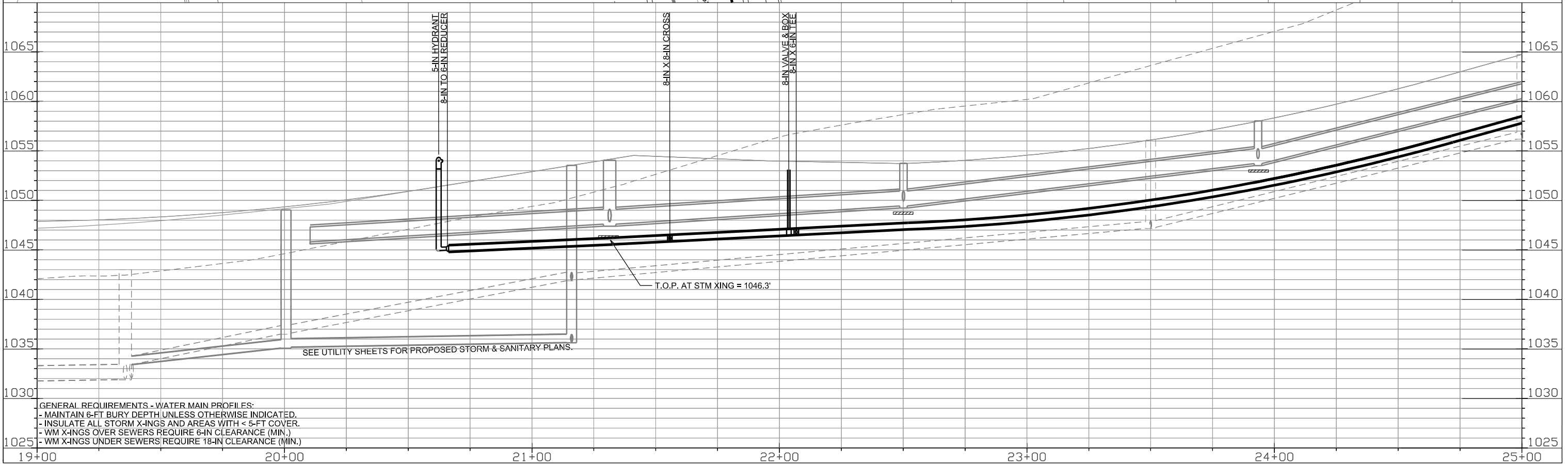
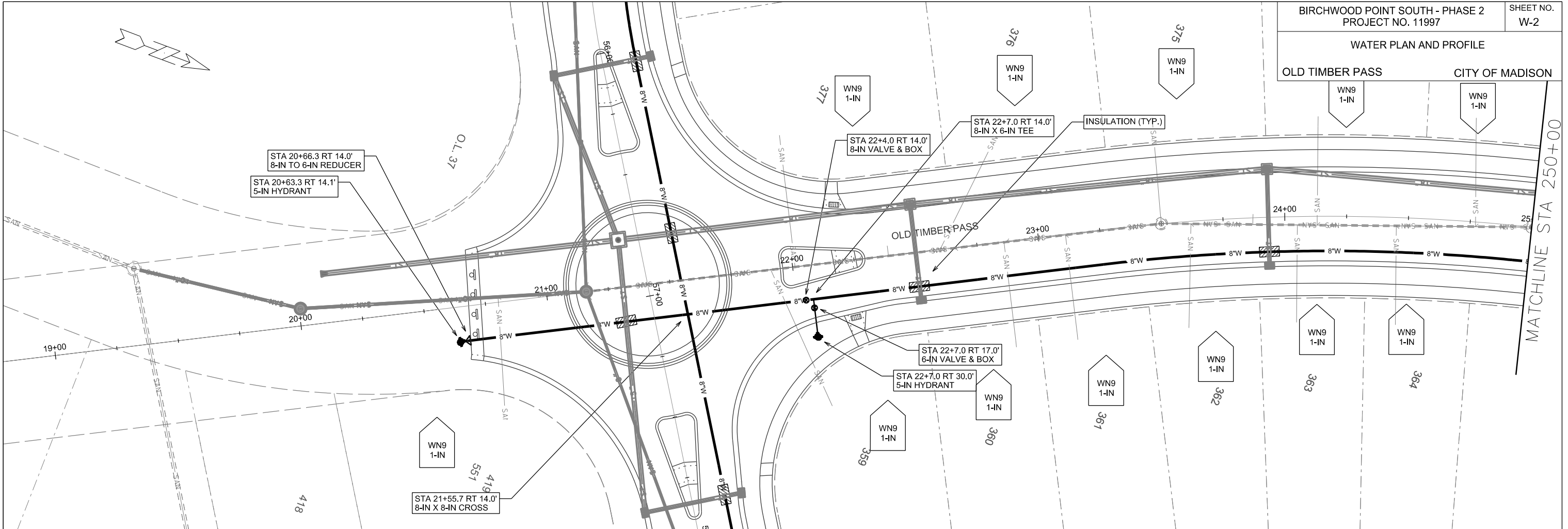
GENERAL REQUIREMENTS - WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



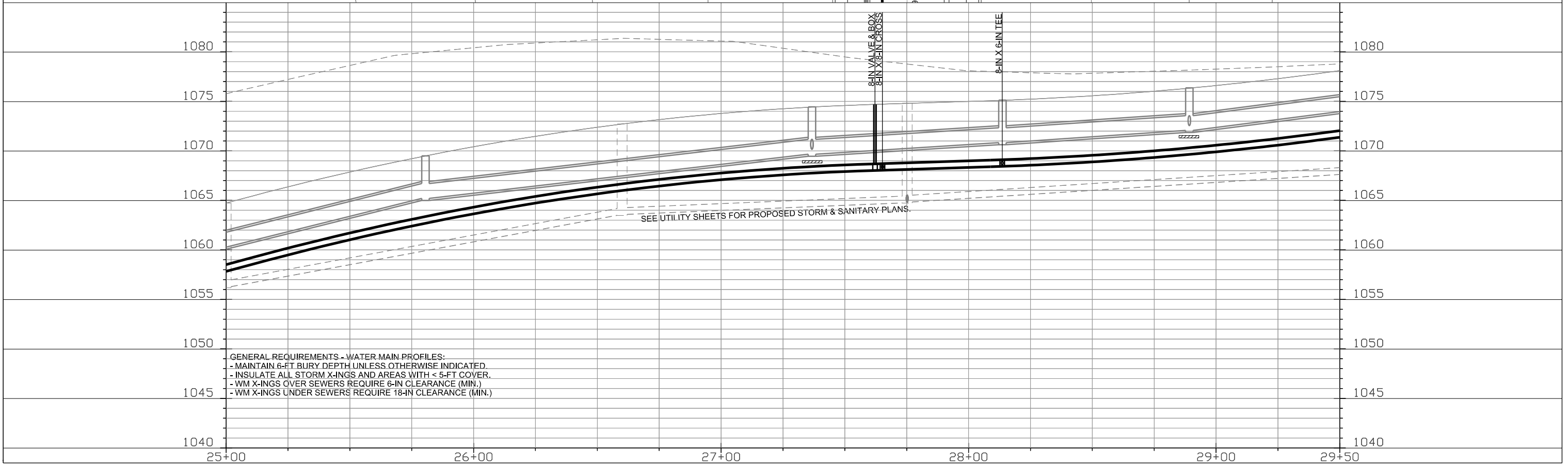
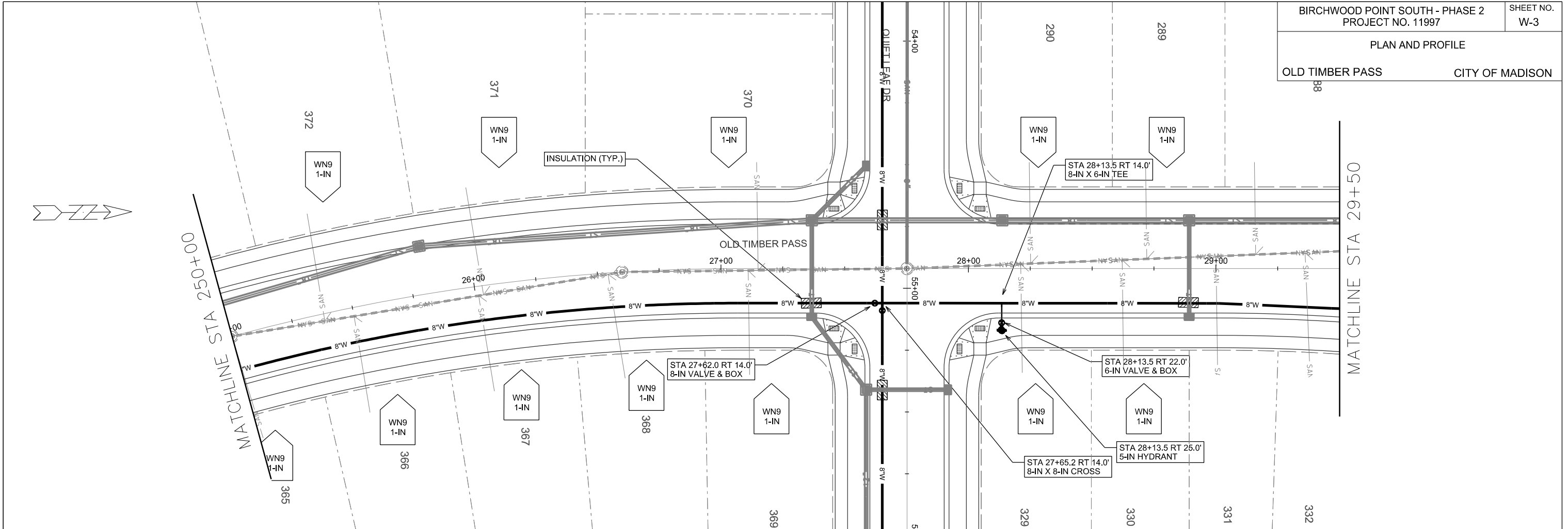
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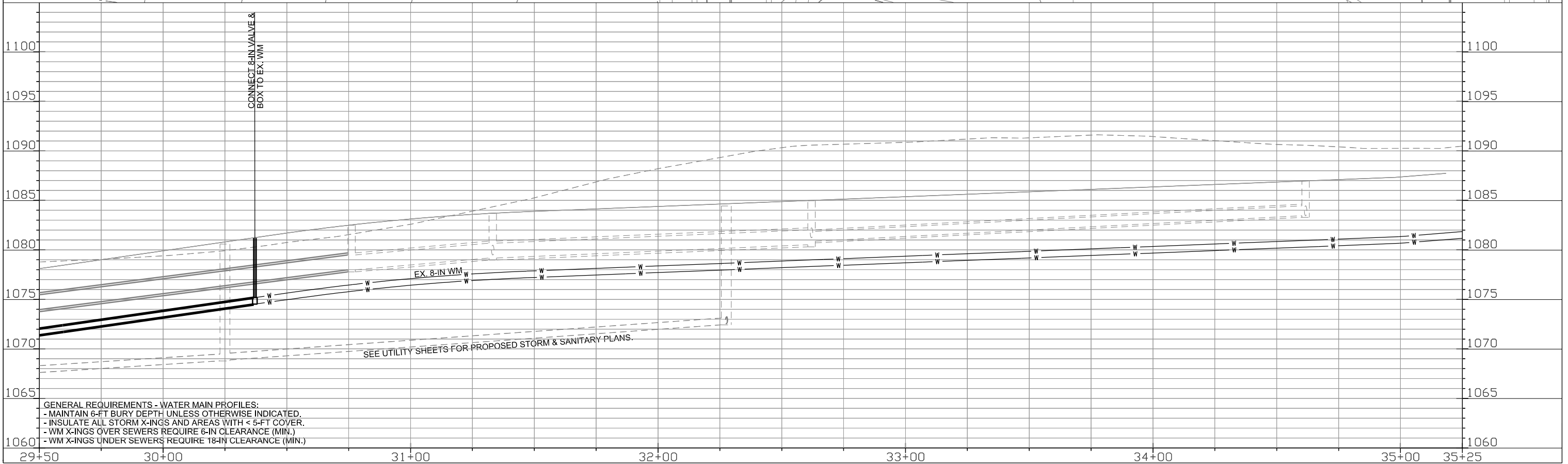
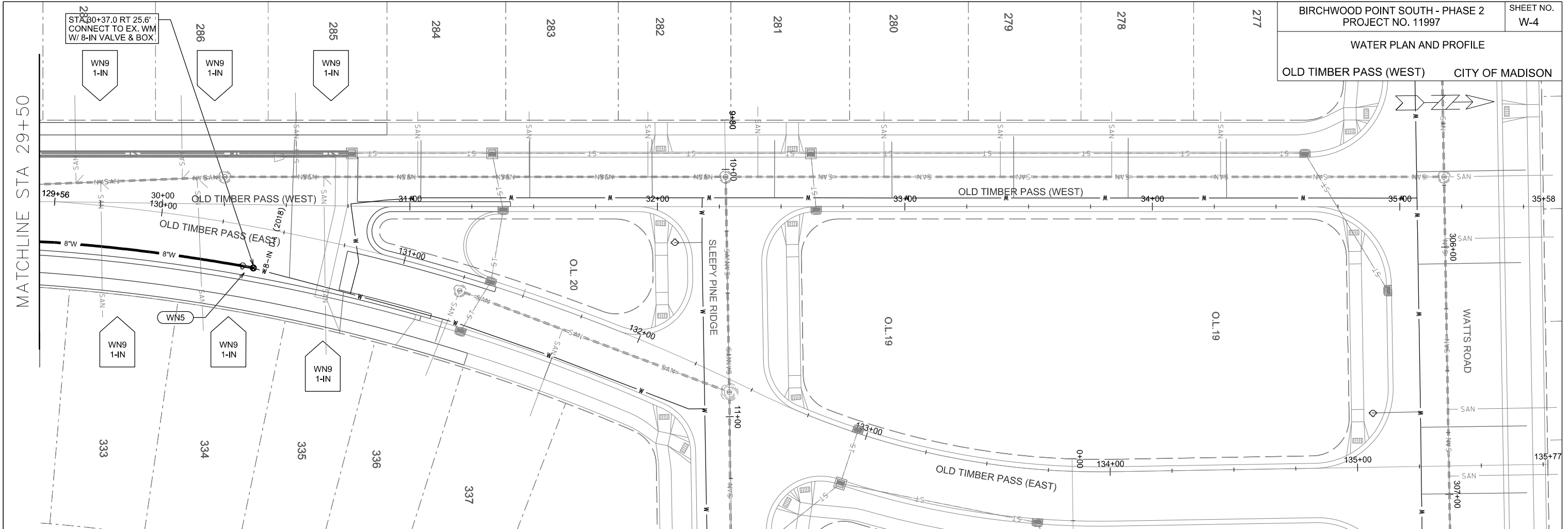
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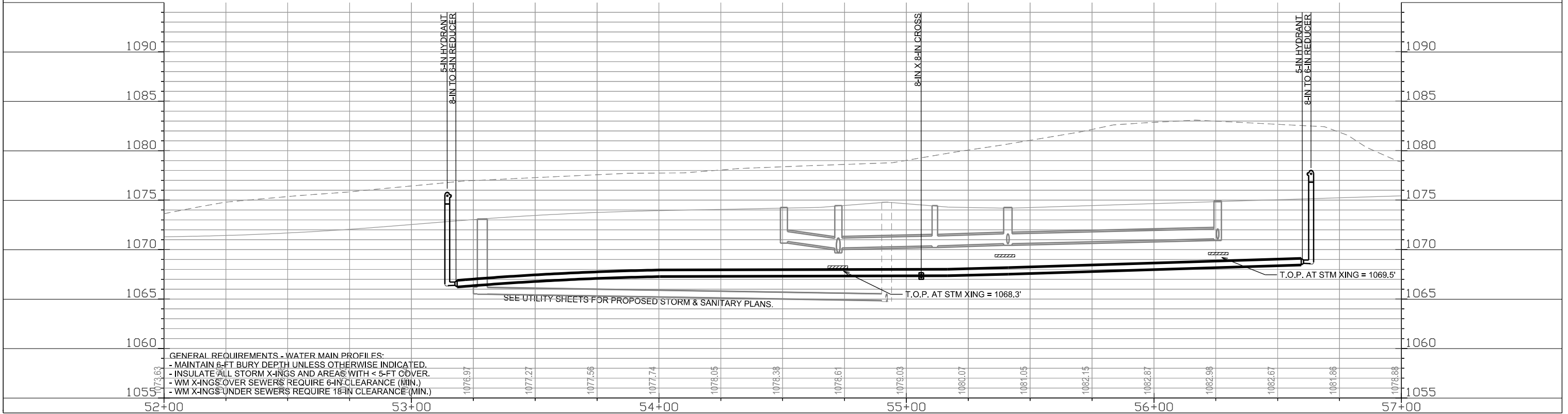
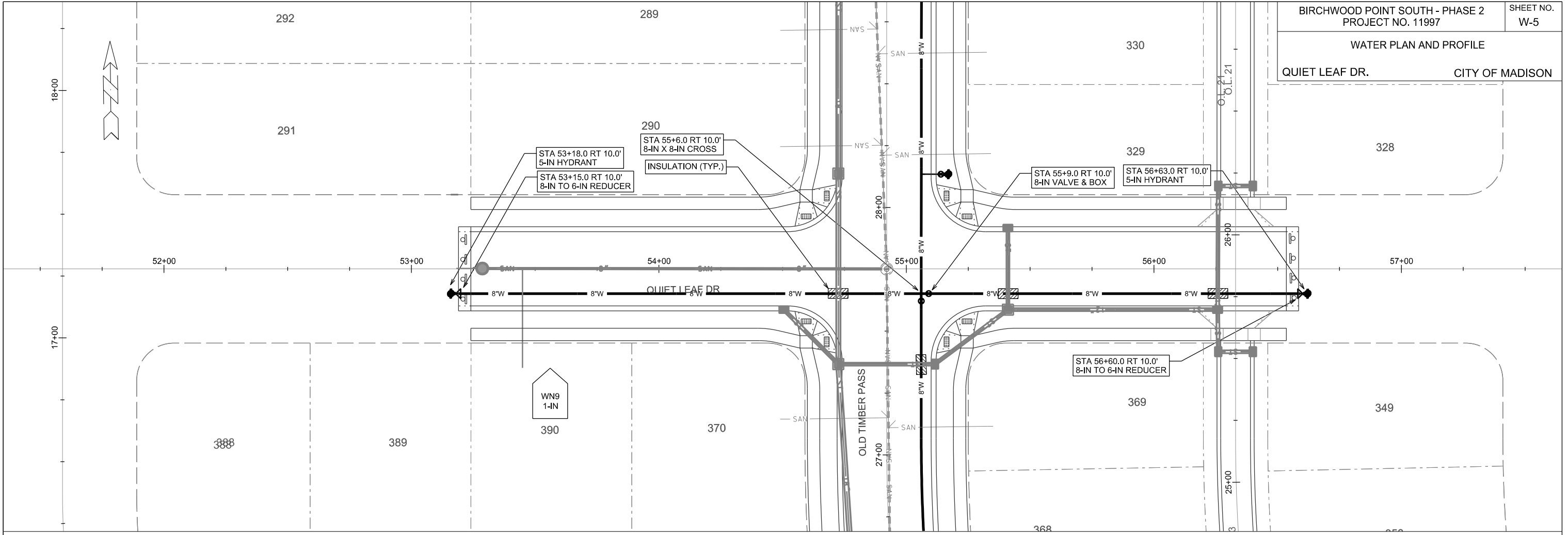
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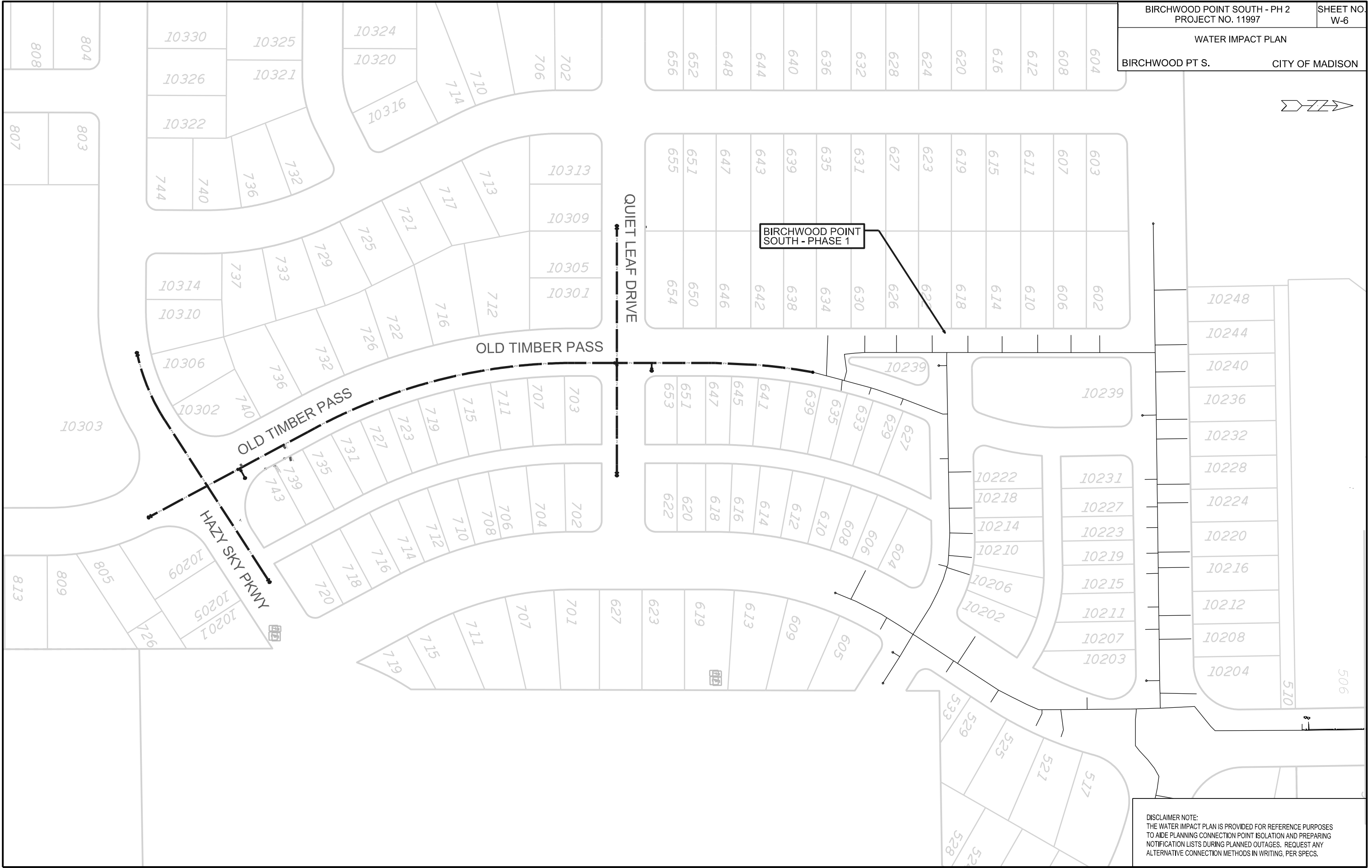
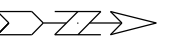
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PLOT SCALE:

PLOT NAME:

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

PLOT SCALE:

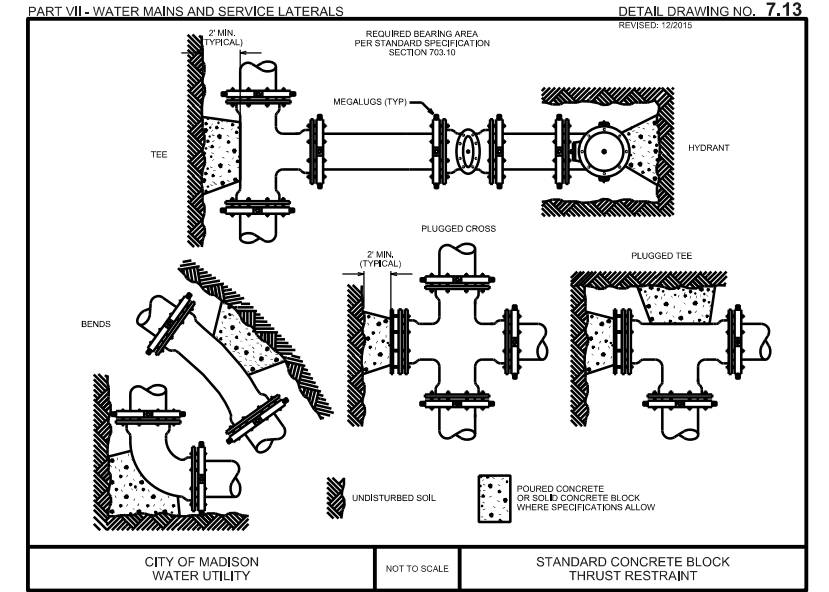
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER ESTIMATE OF MATERIALS

BIRCHWOOD PT S. CITY OF MADISON



CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|----------------------|-----------------------------------|
| 2 - 8-IN CROSS | 7 - 5-IN HYDRANT |
| 60-FT - 6-IN PIPE | 72-FT - 2-IN STYROFOAM INSULATION |
| 1700-FT - 8-IN PIPE | 2024-FT - POLY WRAP |
| 2 - 6-IN VALVE & BOX | 1-IN TO 2-IN COPPER (AS REQ'D) |
| 4 - 8-IN VALVE & BOX | |
| 2 - 8-IN X 6-IN TEE | |

ESTIMATE OF MATERIALS SALVAGED:

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

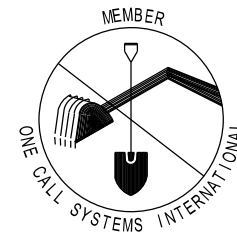
ESTIMATE OF MATERIALS REUSED:

* 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.

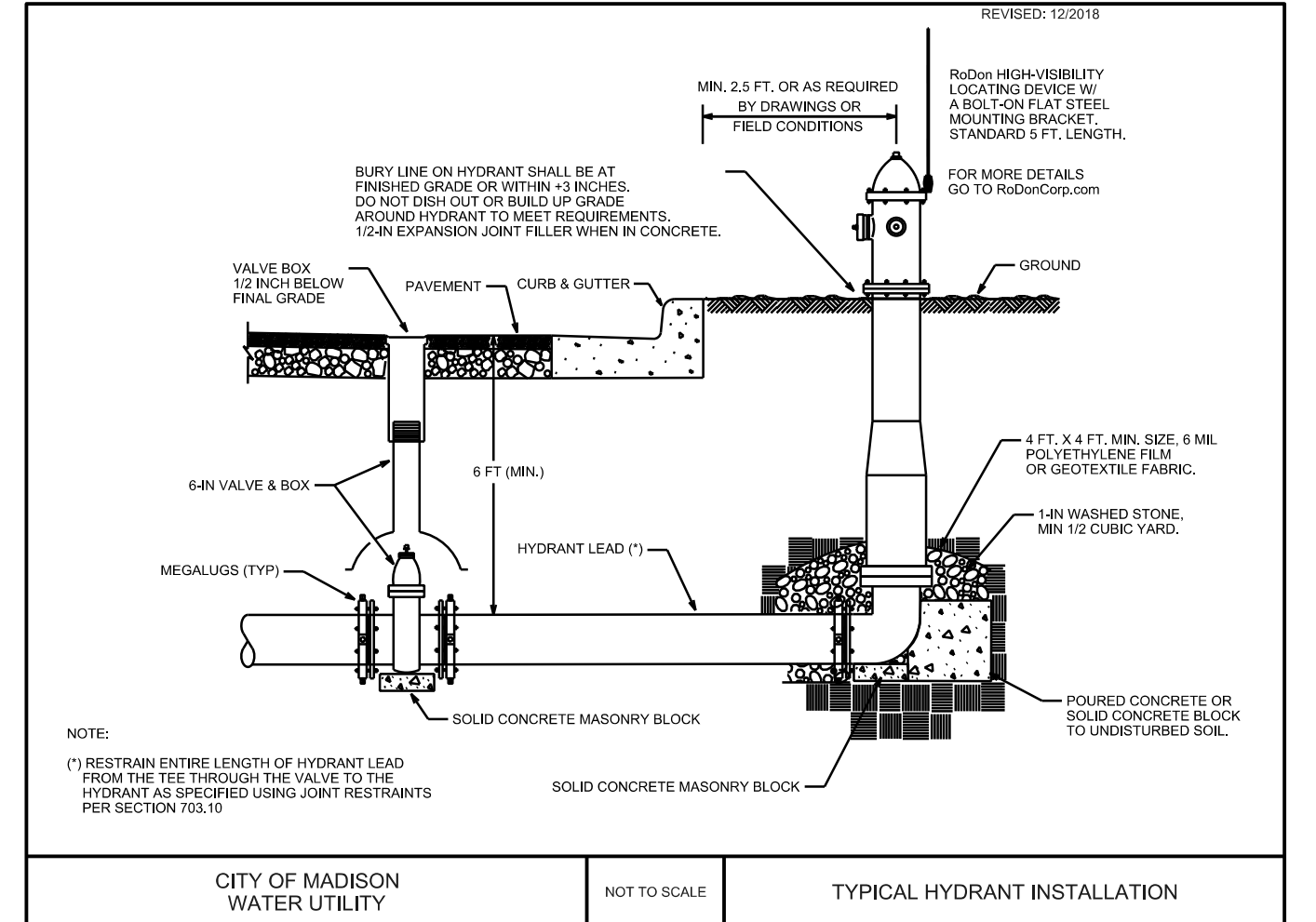


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2018



NOTE:

(*) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction