

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

BIRCHWOOD POINT SOUTH PHASE 1

CITY PROJECT NO. 11932

CITY CONTRACT NO. 8195

MUNIS NO. 11932

PUBLIC IMPROVEMENT PROJECT APPROVED

JUNE 5, 2018

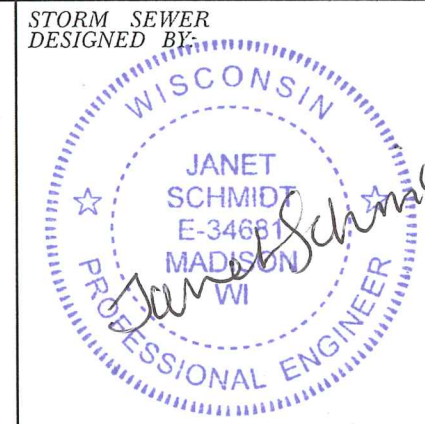
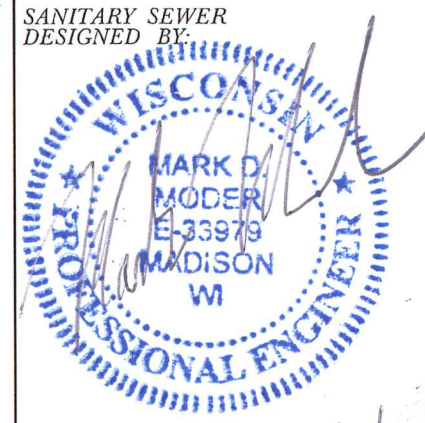
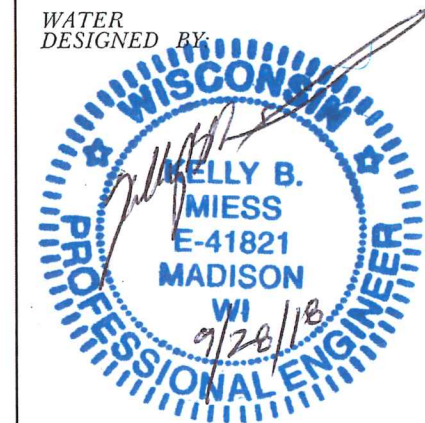
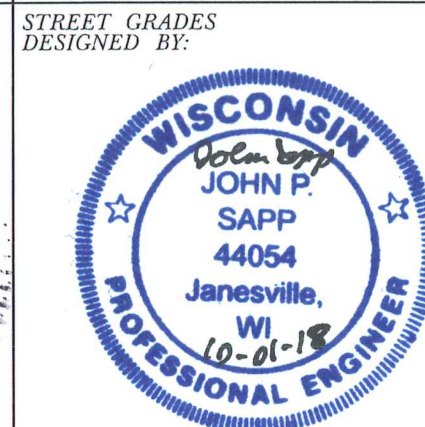
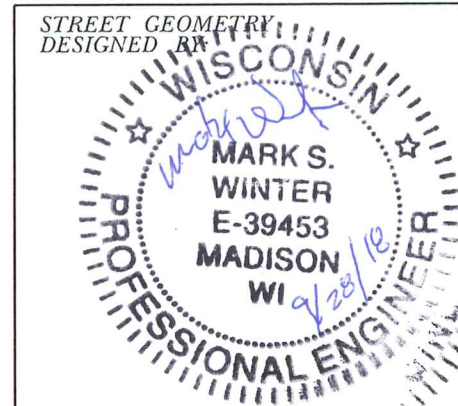
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

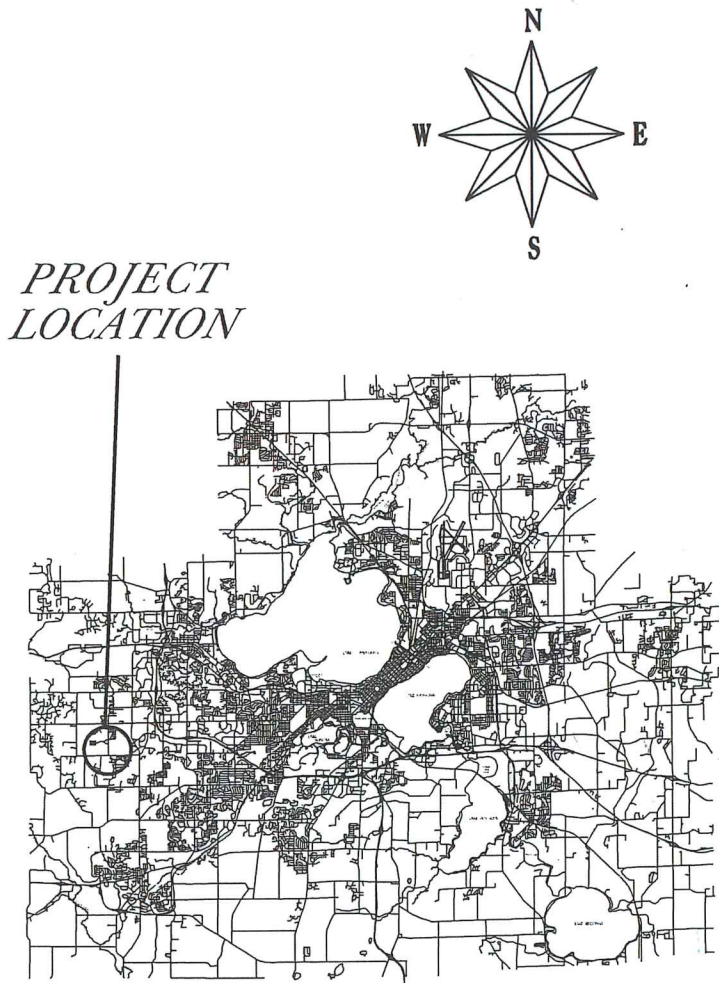
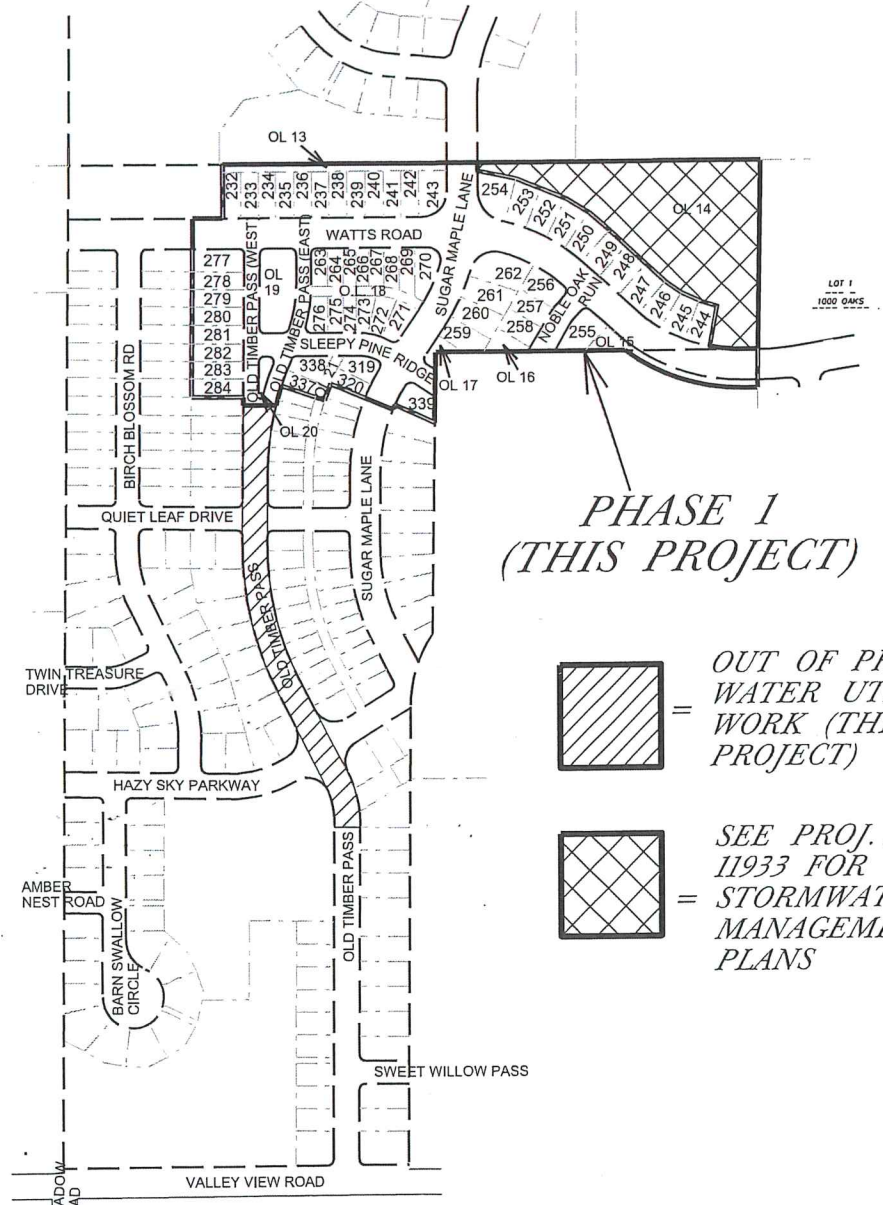
[Signature] 10/2/18
City Engineer Date

INDEX OF SHEETS

SHEET NO.	TITLE
1	1
DI-D5	DETAILS
PI-P11	STREET PLAN AND PROFILES
UI-U14	UTILITIES PLAN AND PROFILES
U15	SANITARY SEWER SCHEDULE
UI6-U17	STORM SEWER SCHEDULE
WI-W9	WATER PLAN AND PROFILES
W10	WATER MATERIALS
W11	PRV DETAIL DRAWING



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



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 SLEEPY PINE RIDGE & NOBLE OAK RUN RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE OLD TIMBER PASS RIGHT-OF-WAY SHALL BE TYPE B PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE SUGAR MAPLE LANE & WATTS ROAD RIGHTS-OF-WAY SHALL BE TYPE C 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

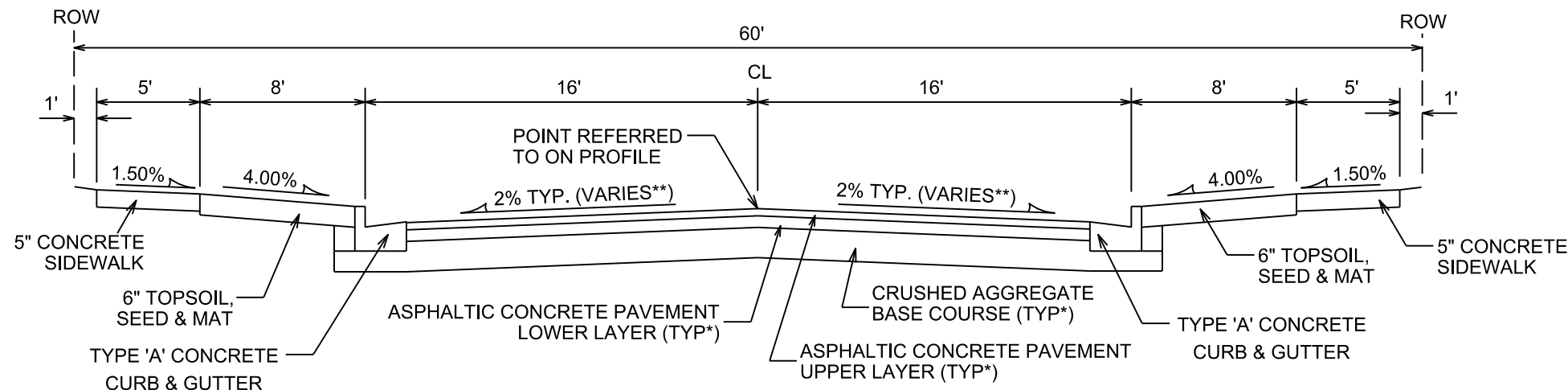
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	—— SAN ——
WATER	—— W ——
OVERHEAD ELECTRIC	—— OH ——
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

PLOT SCALE:

PLOT NAME:

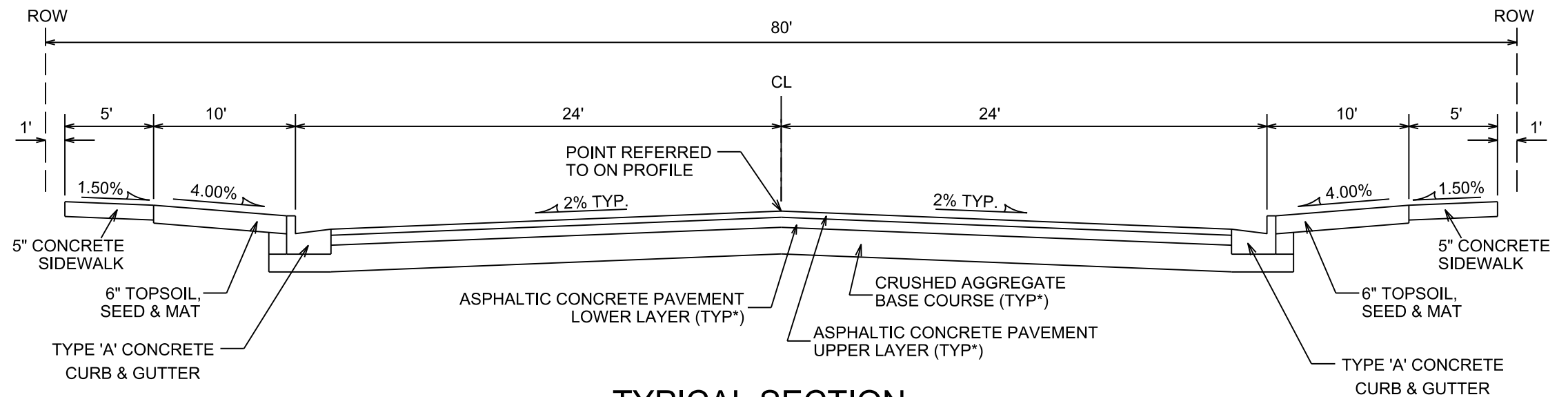
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

NOBLE OAK RUN
SLEEPY PINE RIDGE
NOT TO SCALE



TYPICAL SECTION

SUGAR MAPLE LANE
NOT TO SCALE

NOTES:

- * SUGAR MAPLE LANE SHALL BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN[†]
- NOBLE OAK RUN & SLEEPY PINE RIDGE SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN[†]

** SEE PLAN AND PROFILE SHEETS FOR DIMENSIONS, DETAILS, AND STREET CROSS SLOPES

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 1

[†] CITY OF MADISON MINIMUM PAVEMENT DESIGN

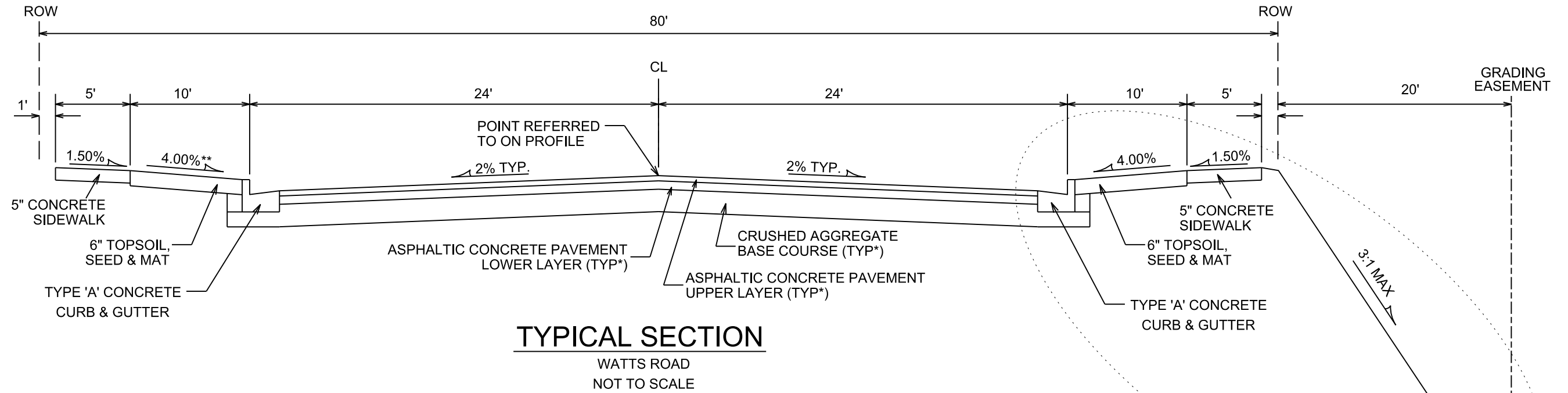
TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H	3.50"	4 MT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

PLOT SCALE:

PLOT NAME:

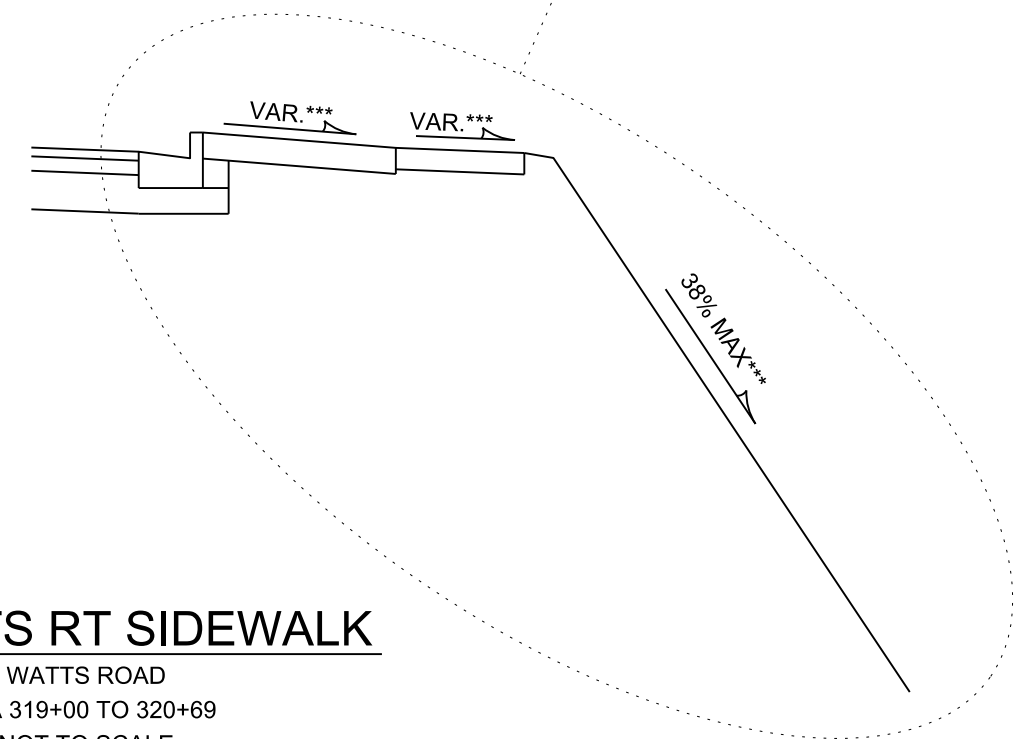
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

WATTS ROAD
NOT TO SCALE



WATTS RT SIDEWALK

WATTS ROAD
STA 319+00 TO 320+69
NOT TO SCALE

NOTES:

- †
- * WATTS ROAD SHALL BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN
- ** LT SIDEWALK CROSS SLOPE VARIES FROM STA 319+25 TO 319+90. SEE PLAN AND PROFILE SHEETS
- *** SEE PLAN AND PROFILE FOR RT SIDEWALK CROSS SLOPE TRANSITIONS AND BACK OF SIDEWALK GRADES
- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 1

† CITY OF MADISON MINIMUM PAVEMENT DESIGN

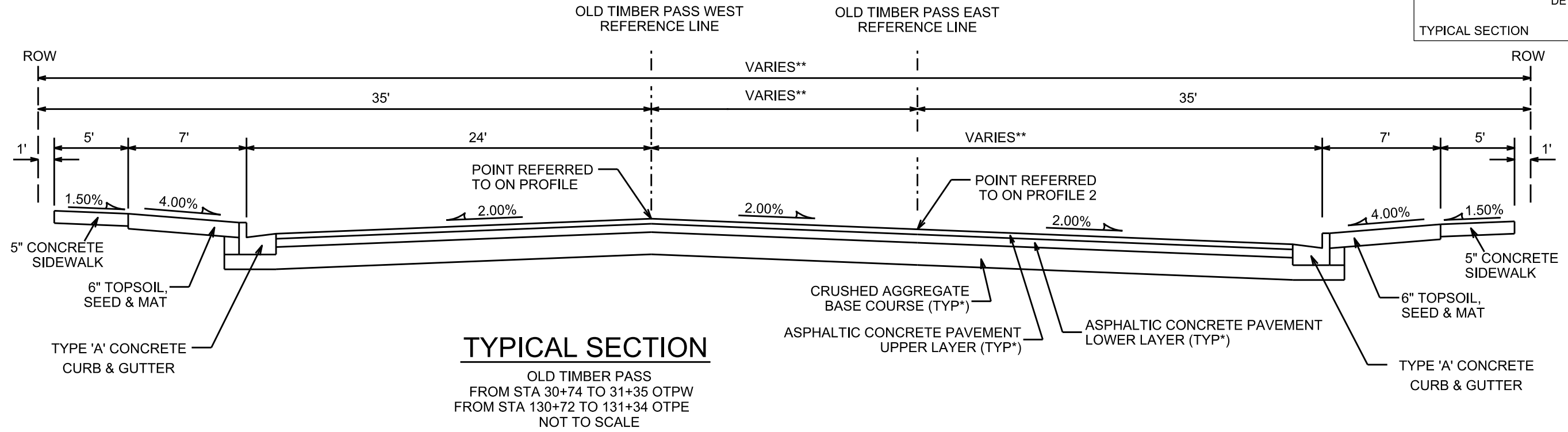
TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H	3.50"	4 MT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

PLOT SCALE:

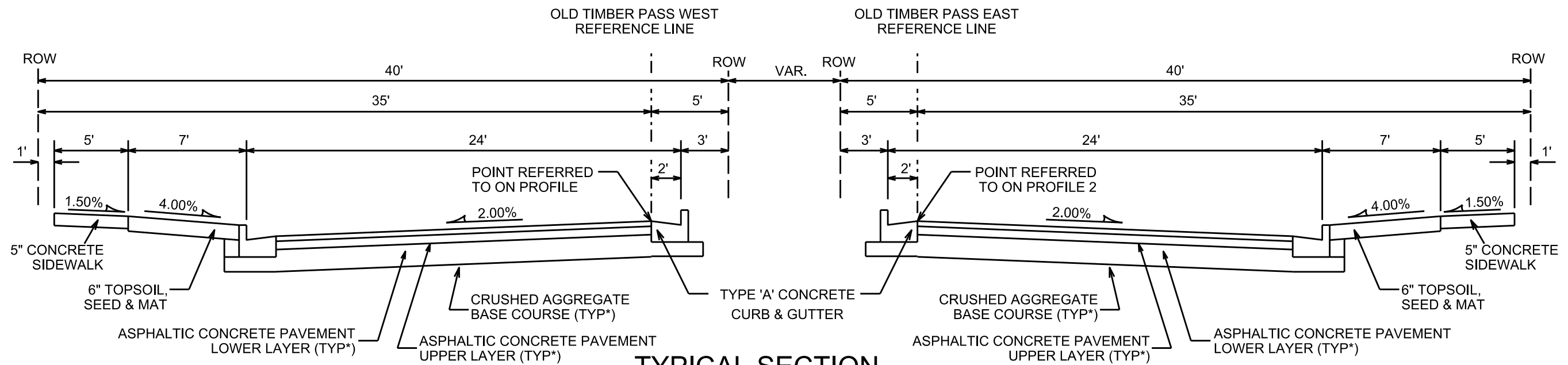
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION
OLD TIMBER PASS
FROM STA 30+74 TO 31+35 OTPW
FROM STA 130+72 TO 131+34 OTPE
NOT TO SCALE



TYPICAL SECTION
OLD TIMBER PASS
FROM STA 31+35 TO 34+97 OTPW
FROM STA 131+34 TO 135+15 OTPE
NOT TO SCALE

† CITY OF MADISON MINIMUM PAVEMENT DESIGN

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 1

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"

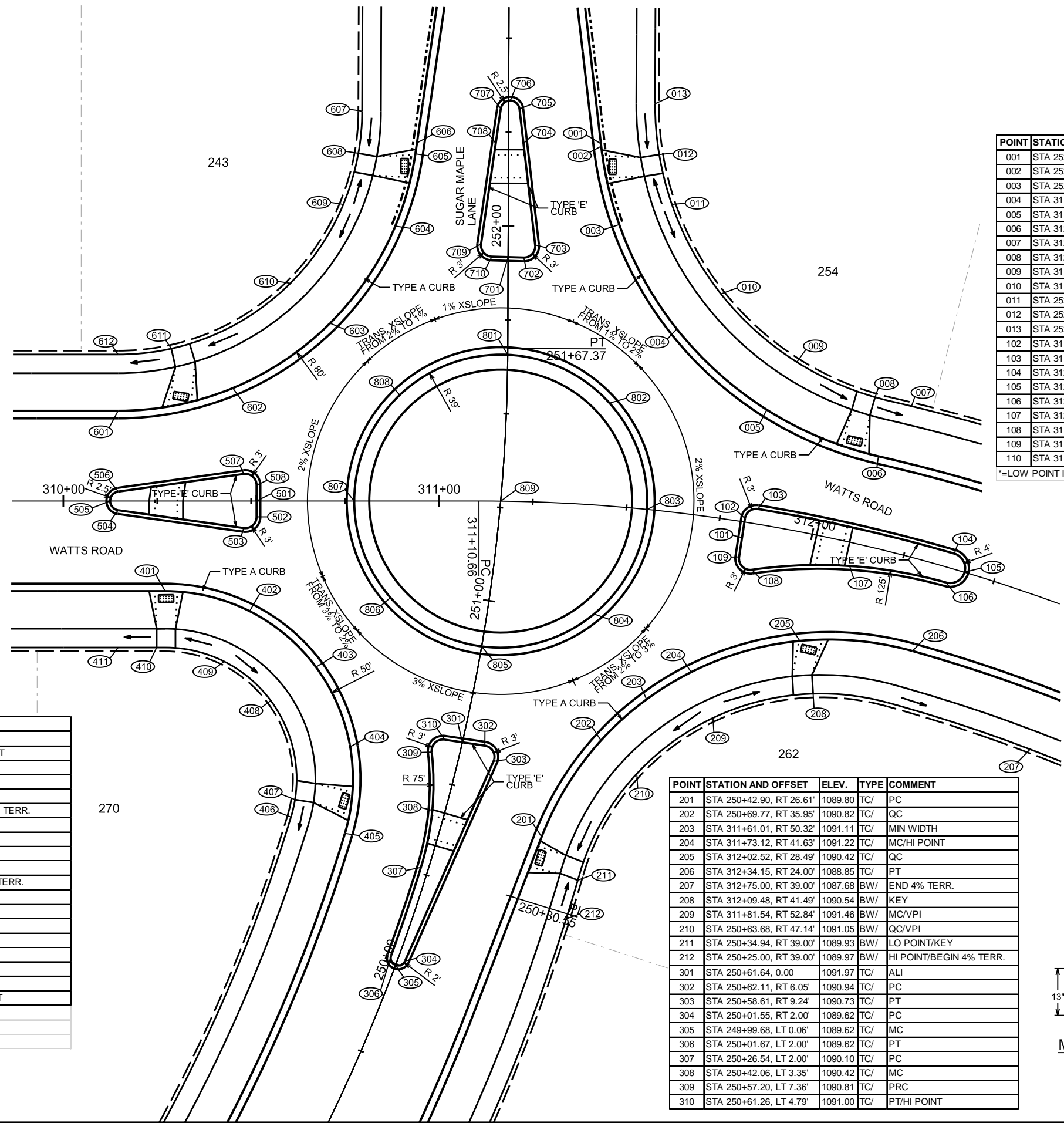
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

POINT	STATION AND OFFSET	ELEV.	TYPE	COMMENT
601	STA 310+14.57, LT 24.00'	1090.31	TC/	PC
602	STA 310+45.12, LT 30.06'	1091.28	TC/	QC
603	STA 310+71.03, LT 47.33'	1091.64	TC/	MC
604	STA 251+99.87, LT 30.06'	1091.80	TC/	QC HI POINT
605	STA 252+19.12, LT 24.80'	1091.51	TC/	PT
606	STA 252+22.00, LT 24.44'	1091.46	TC/	LO POINT
607	STA 252+30.42, LT 39.00'	1092.03	BW/	PC/BEGIN 4% TERRACE
608	STA 252+19.21, LT 39.97'	1091.89	BW/	KEY/LO POINT
609	STA 252+05.60, LT 43.93'	1092.26	BW/	QC/HI POINT
610	STA 310+60.45, LT 57.96'	1092.10	BW/	MC/VPI
611	STA 310+28.75, LT 40.57'	1091.13	BW/	KEY
612	STA 310+14.57, LT 39.00'	1090.77	BW/	PT/END 4% TERR.
701	STA 251+91.72, LT 0.08'	1092.26	TC/	ALI/HI POINT
702	STA 251+91.61, RT 4.15'	1092.23	TC/	PC
703	STA 251+94.97, RT 7.20'	1092.18	TC/	PT
704	STA 252+22.00, RT 3.98'	1091.99	TC/	LO POINT*
705	STA 252+31.18, RT 2.89'	1092.12	TC/	PC
706	STA 252+33.39, RT 0.43'	1092.24	TC/	MC/HI POINT
707	STA 252+31.24, LT 2.07'	1092.14	TC/	PT
708	STA 252+22.00, LT 3.39'	1092.00	TC/	LO POINT*
709	STA 251+95.25, LT 7.20'	1092.00	TC/	PC
710	STA 251+91.83, LT 4.31'	1092.23	TC/	PT
801	STA 251+65.71, 0.00'	1092.23	TC/**	ALI/HI POINT
802	STA 311+43.47, LT 27.33'	1092.03	TC/**	MID POINT
803	STA 311+55.47, 0.00'	1091.82	TC/**	ALI
804	STA 311+43.45, RT 28.97'	1091.61	TC/**	MID POINT
805	STA 250+87.68, 0.00'	1091.41	TC/**	ALI
806	STA 310+87.12, RT 25.73'	1091.61	TC/**	MID POINT
807	STA 310+77.46, 0.00'	1091.82	TC/**	ALI
808	STA 310+89.55, LT 28.19'	1092.03	TC/**	MID POINT
809	STA 311+16.46, 0.00'	1092.35	TC/**	ALI INTERSECT

*=LOW POINT IN ISLAND WITH REJECT CURB. NO INLET NECESSARY
**=POINT SPECIFIED ON MOUNTABLE ROUNDABOUT CURB DETAIL

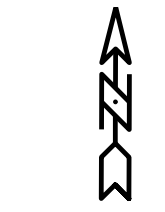
POINT	STATION AND OFFSET	ELEV.	TYPE	COMMENT
001	STA 252+21.31, RT 24.68'	1091.5	TC/	PC
002	STA 252+00.93, RT 29.40'	1091.82	TC/	QC/HI POINT
003	STA 311+58.31, LT 48.61'	1091.65	TC/	MC
004	STA 311+82.76, LT 30.45'	1091.33	TC/	QC
005	STA 312+12.51, LT 24.00'	1089.63	TC/	PT
006	STA 312+17.67, LT 39.00'	1089.97	BW/	END 4% TERR.
007	STA 312+08.47, LT 39.14'	1090.33	BW/	KEY
008	STA 311+88.12, LT 44.28'	1091.36	BW/	QC/VPI
009	STA 311+67.76, LT 59.23'	1092.11	BW/	MC/BEGIN 4% TERR.
010	STA 252+05.89, RT 43.56'	1092.28	BW/	QC/HI POINT/END 4% TERR.
011	STA 252+19.18, RT 40.13'	1091.90	BW/	KEY/LO POINT
012	STA 252+32.68, RT 39.00'	1092.07	BW/	PT/BEGIN 4% TERR.
013	STA 311+81.65, LT 0.97'	1091.61	TC/	PC/HI POINT
102	STA 311+84.64, LT 4.00'	1091.43	TC/	PT
103	STA 312+37.82, LT 3.99'	1089.22	TC/	PC
104	STA 312+41.82, LT 0.03'	1089.12	TC/	MC/LO POINT*
105	STA 312+37.85, RT 4.01'	1089.22	TC/	PRC
106	STA 312+11.59, RT 6.18'	1090.27	TC/	MC
107	STA 311+85.72, RT 12.23'	1091.24	TC/	PRC
108	STA 311+81.72, RT 9.41'	1091.55	TC/	PC
109	STA 311+81.68, RT 4.22'	1091.58	TC/	MID POINT

*=LOW POINT IN ISLAND WITH REJECT CURB. NO INLET NECESSARY

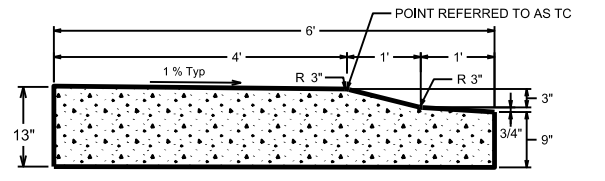


POINT	STATION AND OFFSET	ELEV.	TYPE	COMMENT
401	STA 310+27.12, RT 24.00'	1090.48	TC/	PC
402	STA 310+49.59, RT 29.34'	1091.18	TC/	QC/HI POINT
403	STA 310+67.27, RT 44.21'	1091.00	TC/	MC
404	STA 250+53.26, LT 28.77'	1090.58	TC/	QC
405	STA 250+29.32, LT 24.00'	1089.59	TC/	PT
406	STA 250+29.32, LT 39.00'	1090.05	BW/	PC/END 4% TERR.
407	STA 250+34.52, LT 39.30'	1090.18	BW/	KEY
408	STA 310+55.22, RT 53.15'	1091.36	BW/	MC/VPI
409	STA 310+42.85, RT 42.74'	1091.55	BW/	HI POINT
410	STA 310+24.84, RT 39.00'	1090.82	BW/	KEY
411	STA 310+14.57, RT 39.00'	1090.77	BW/	BEGIN 4% TERR.
501	STA 310+51.46, 0.00'	1091.61	TC/	ALI
502	STA 310+51.45, RT 4.23'	1091.59	TC/	PC
503	STA 310+48.03, RT 7.20'	1091.45	TC/	PT
504	STA 310+14.61, RT 2.45'	1090.86	TC/	PC
505	STA 310+12.46, LT 0.03'	1090.92	TC/	MC
506	STA 310+14.61, LT 2.51'	1090.86	TC/	PT
507	STA 310+48.04, LT 7.20'	1090.51	TC/	PC
508	STA 310+51.46, LT 4.23'	1091.63	TC/	PT/HI POINT

POINT	STATION AND OFFSET	ELEV.	TYPE	COMMENT
201	STA 250+42.90, RT 26.61'	1089.80	TC/	PC
202	STA 250+69.77, RT 35.95'	1090.82	TC/	QC
203	STA 311+61.01, RT 50.32'	1091.11	TC/	MIN WIDTH
204	STA 311+73.12, RT 41.63'	1091.22	TC/	MC/HI POINT
205	STA 312+02.52, RT 28.49'	1090.42	TC/	QC
206	STA 312+34.15, RT 24.00'	1088.85	TC/	PT
207	STA 312+75.00, RT 39.00'	1087.68	BW/	END 4% TERR.
208	STA 312+09.48, RT 41.49'	1090.54	BW/	KEY
209	STA 311+81.54, RT 52.84'	1091.46	BW/	MC/VPI
210	STA 250+63.68, RT 47.14'	1091.05	BW/	QC/VPI
211	STA 250+34.94, RT 39.00'	1089.93	BW/	LO POINT/KEY
212	STA 250+25.00, RT 39.00'	1089.97	BW/	HI POINT/BEGIN 4% TERR.
301	STA 250+61.64, 0.00'	1091.97	TC/	ALI
302	STA 250+62.11, RT 6.05'	1090.94	TC/	PC
303	STA 250+58.61, RT 9.24'	1090.73	TC/	PT
304	STA 250+01.55, RT 2.00'	1089.62	TC/	PC
305	STA 249+99.68, LT 0.06'	1089.62	TC/	MC
306	STA 250+01.67, LT 2.00'	1089.62	TC/	PT
307	STA 250+26.54, LT 2.00'	1090.10	TC/	PC
308	STA 250+42.06, LT 3.35'	1090.42	TC/	MC
309	STA 250+57.20, LT 7.36'	1090.81	TC/	PRC
310	STA 250+61.26, LT 4.79'	1091.00	TC/	PT/HI POINT



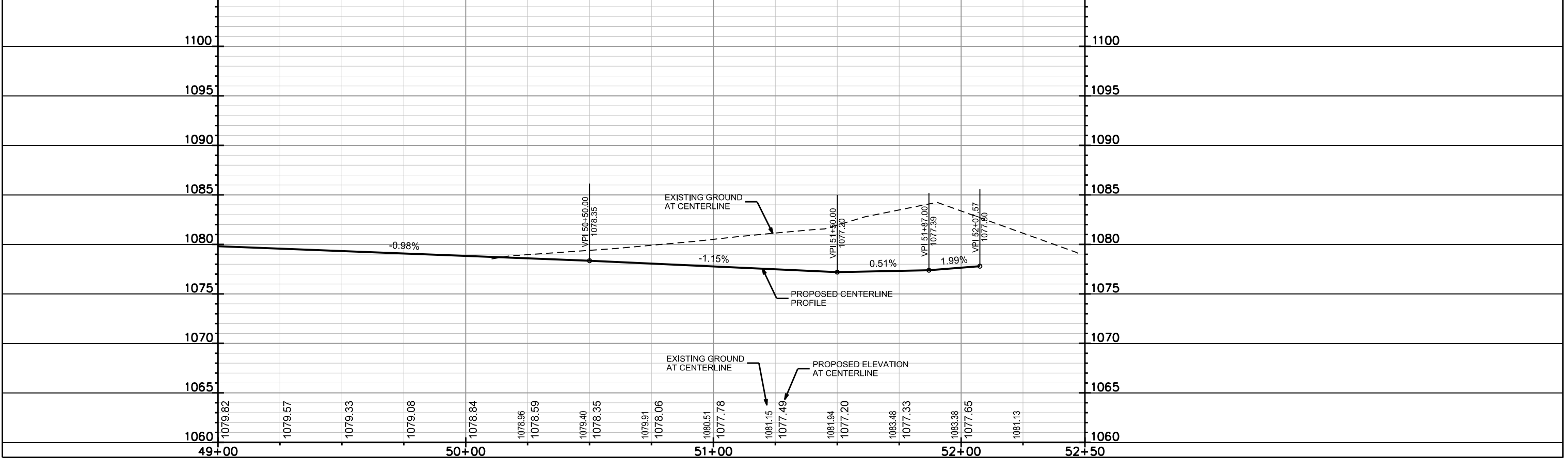
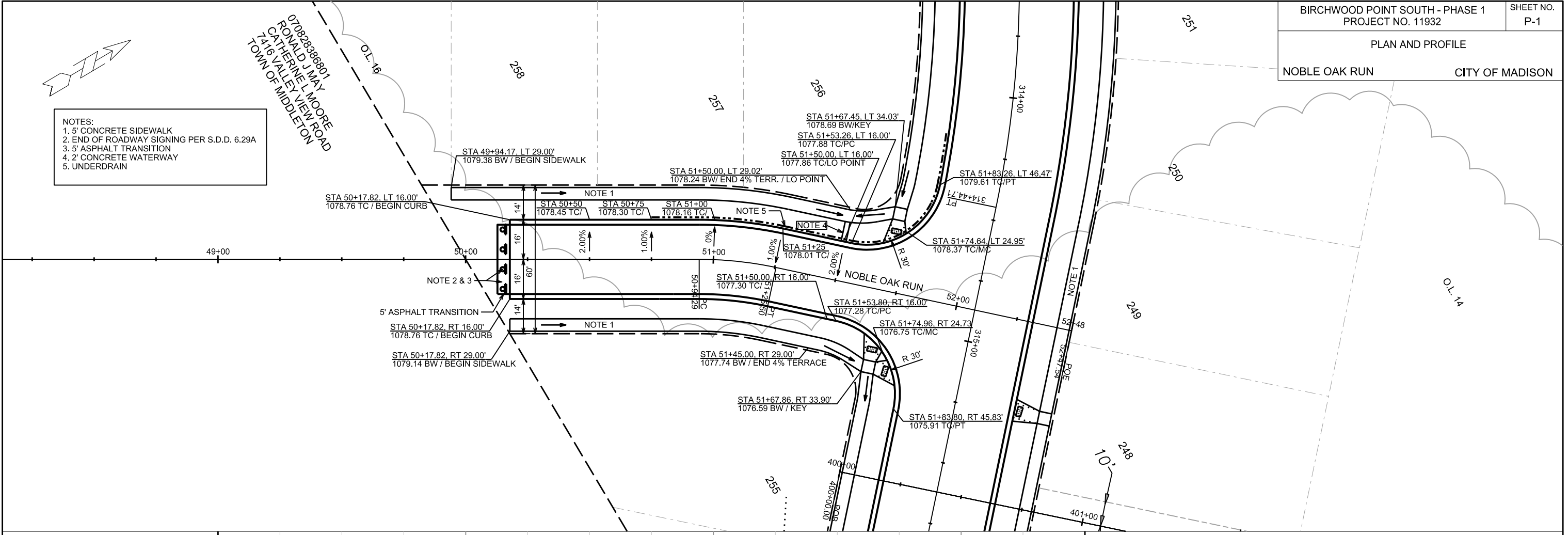
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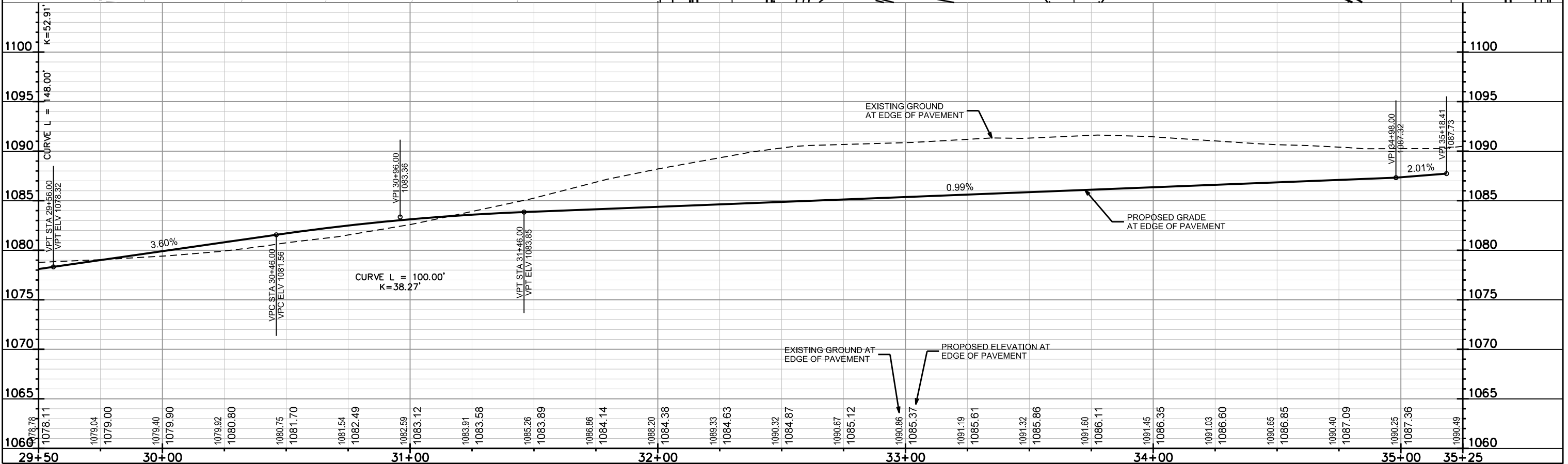
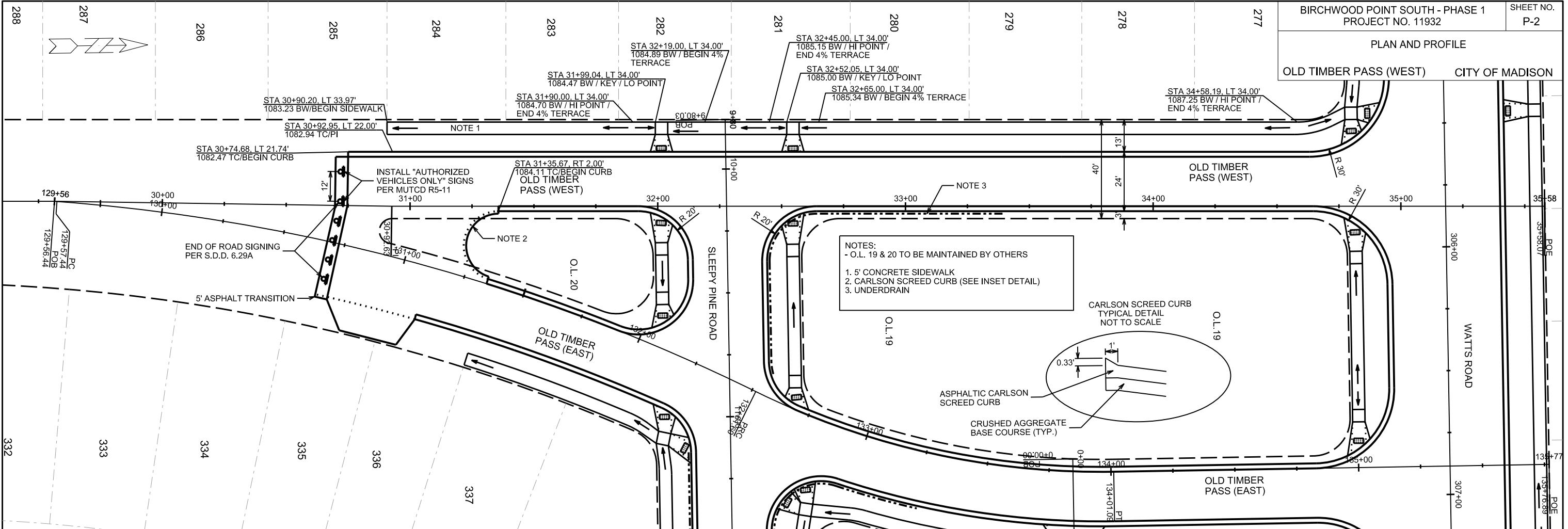
MOUNTABLE CONCRETE CURB AND GUTTER FOR ROUNDABOUT

- NOTES:
1. 5' CONCRETE SIDEWALK
 2. END OF ROADWAY SIGNING PER S.D.D. 6.29A
 3. 5' ASPHALT TRANSITION
 4. 2' CONCRETE WATERWAY
 5. UNDERDRAIN

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



PLAN AND PROFILE
OLD TIMBER PASS (WEST) CITY OF MADISON



PLOT SCALE:

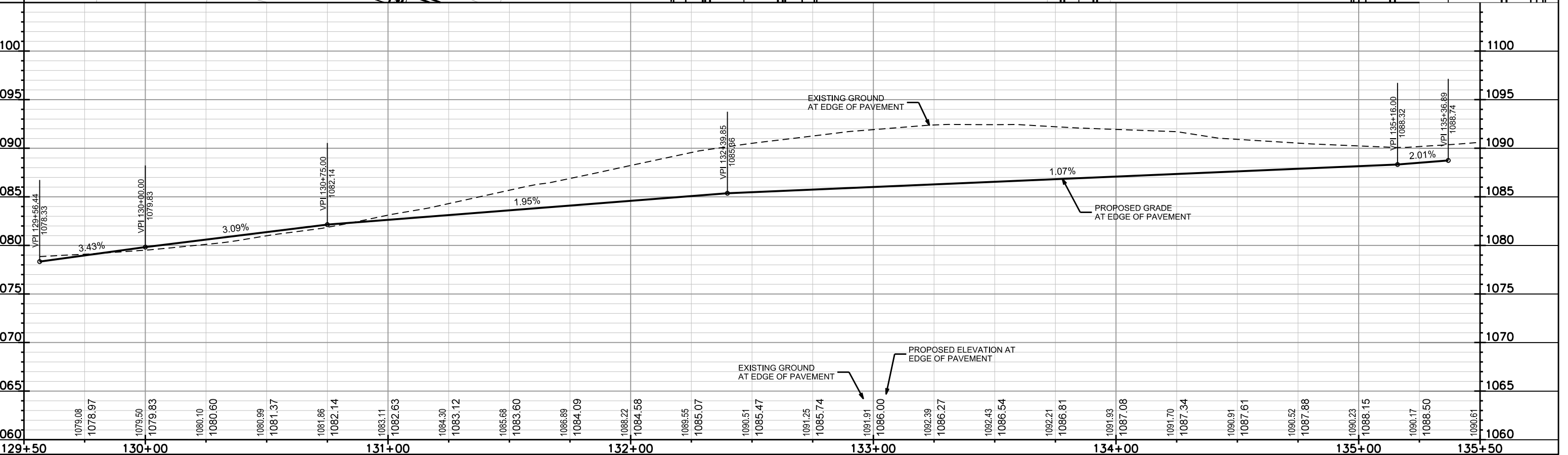
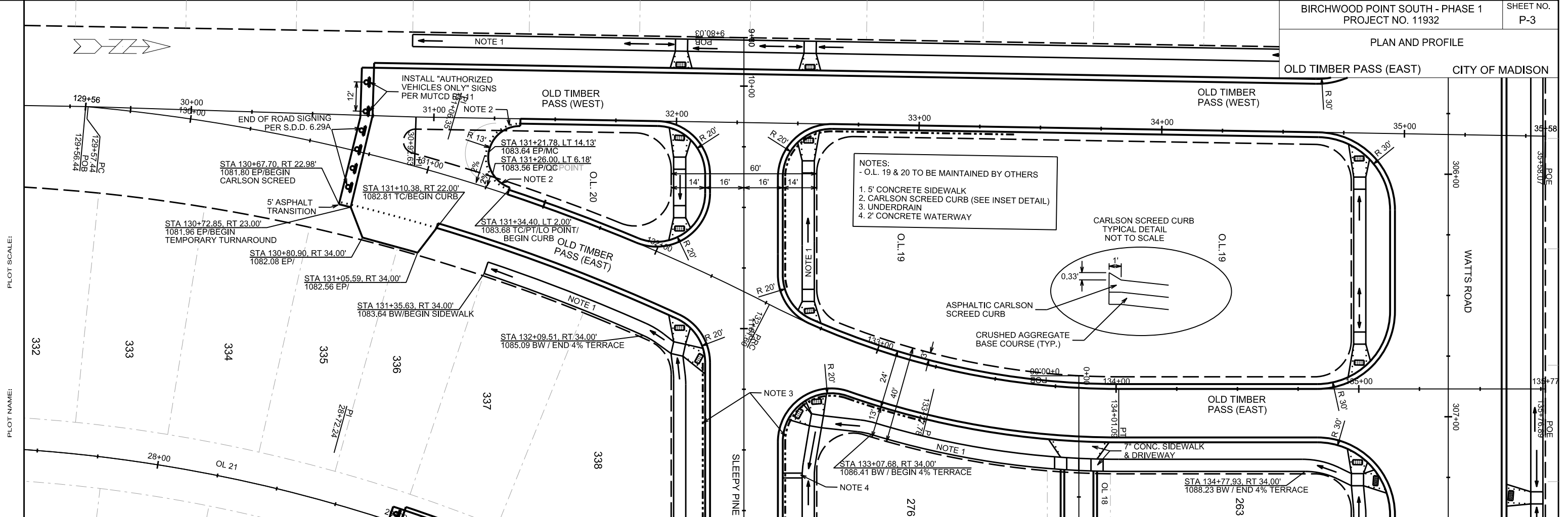
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

OLD TIMBER PASS (EAST) CITY OF MADISON

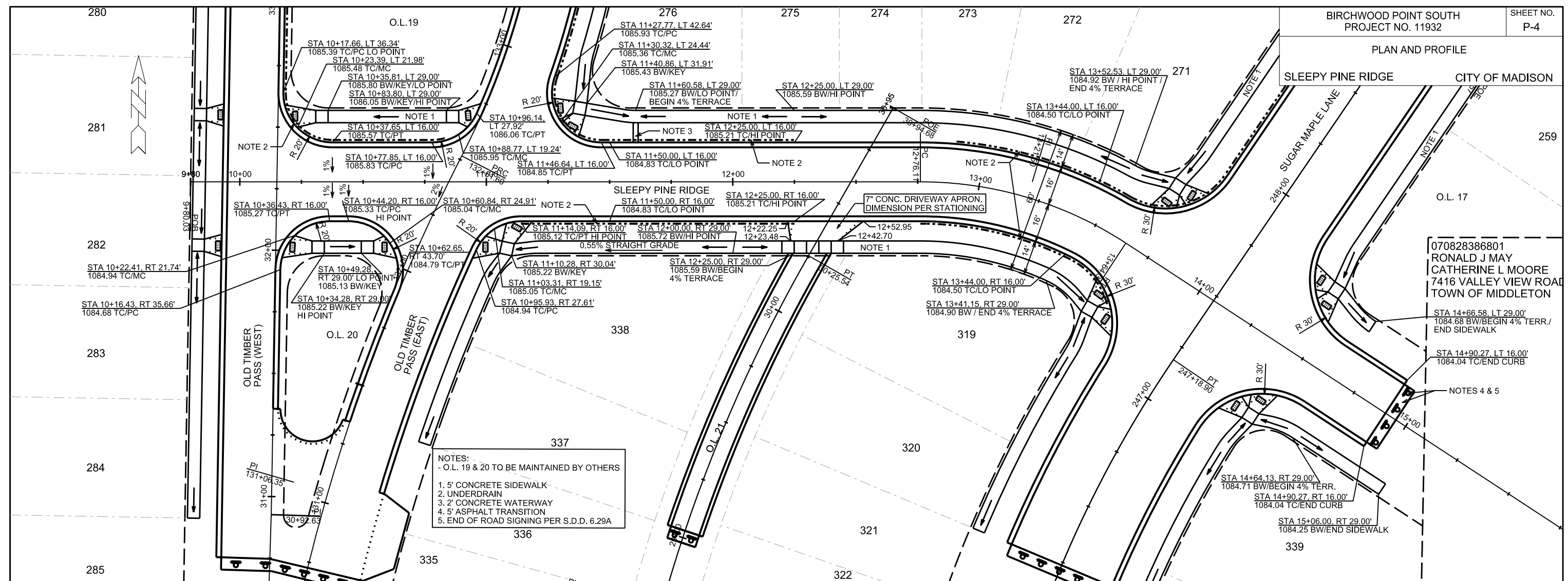


REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:
PLOT NAME:

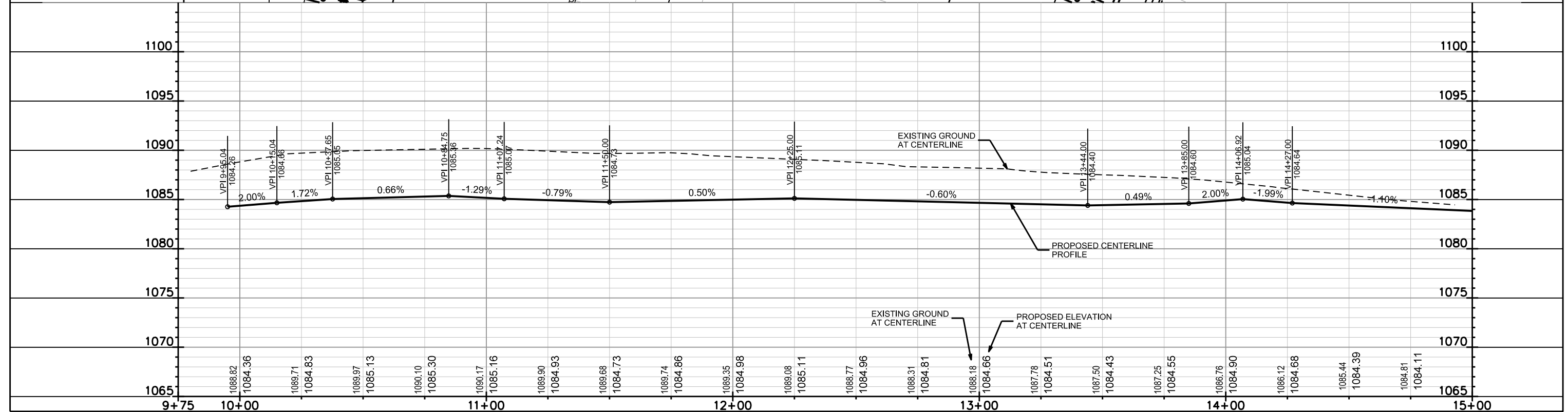
PLAN AND PROFILE

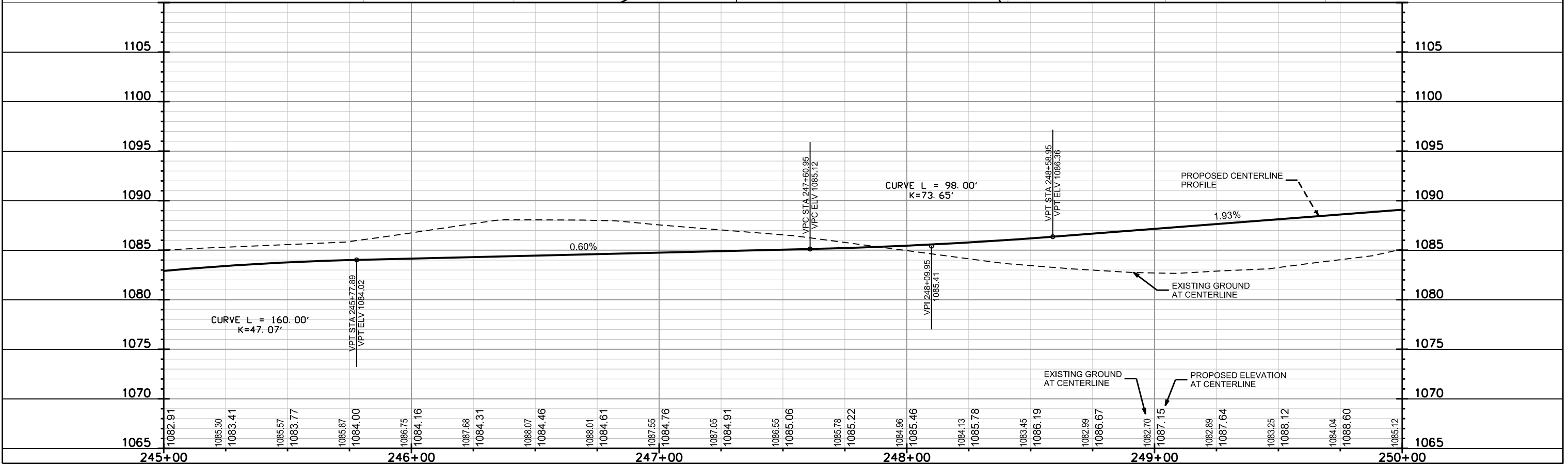
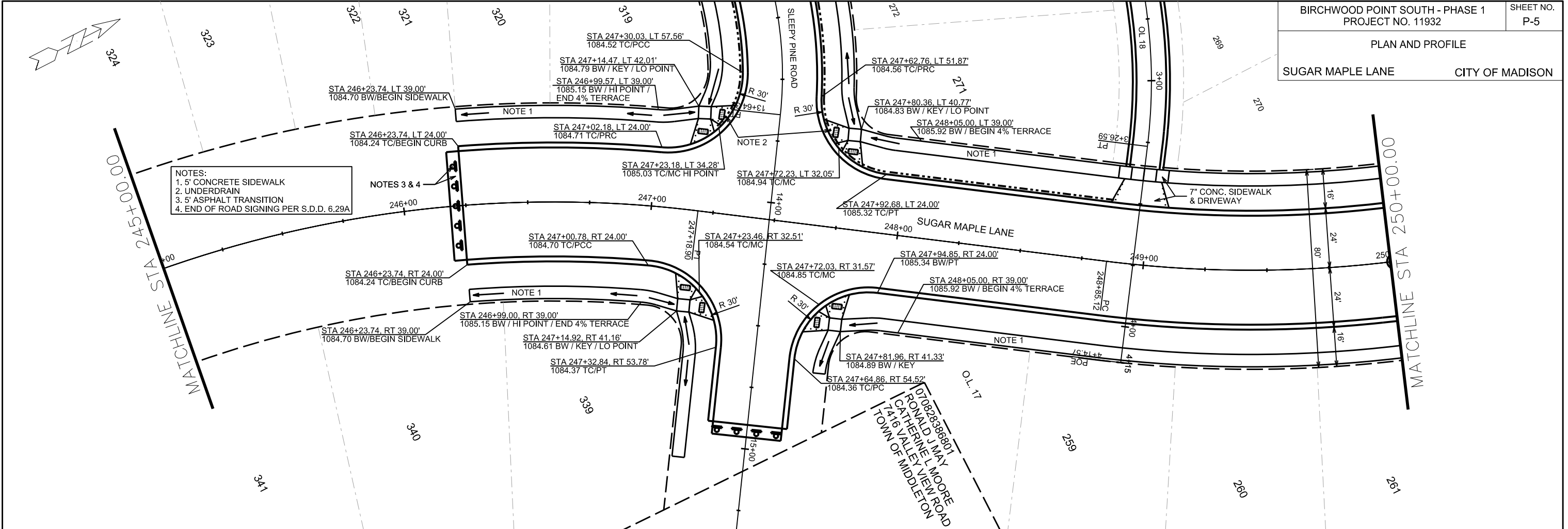
SLEEPY PINE RIDGE CITY OF MADISON



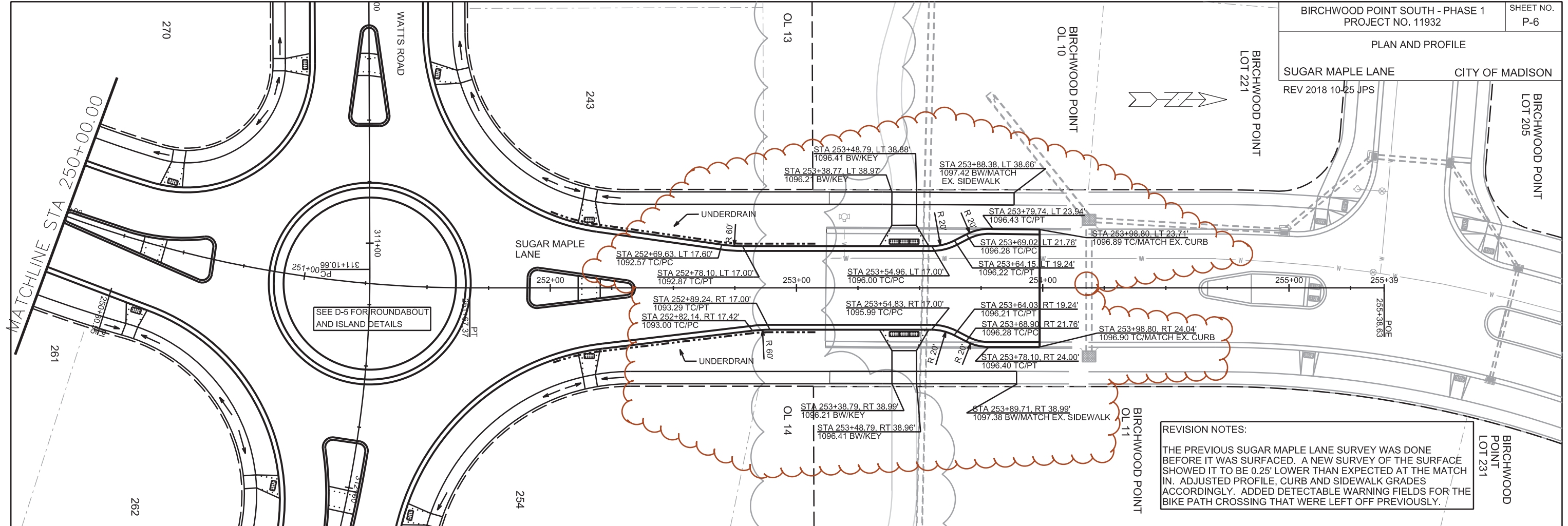
- NOTES:
 - O.L. 19 & 20 TO BE MAINTAINED BY OTHERS
 1. 5' CONCRETE SIDEWALK
 2. UNDERDRAIN
 3. 2' CONCRETE WATERWAY
 4. 5' ASPHALT TRANSITION
 5. END OF ROAD SIGNING PER S.D.D. 6.29A

070828386801
 RONALD J MAY
 CATHERINE L MOORE
 7416 VALLEY VIEW ROAD
 TOWN OF MIDDLETON

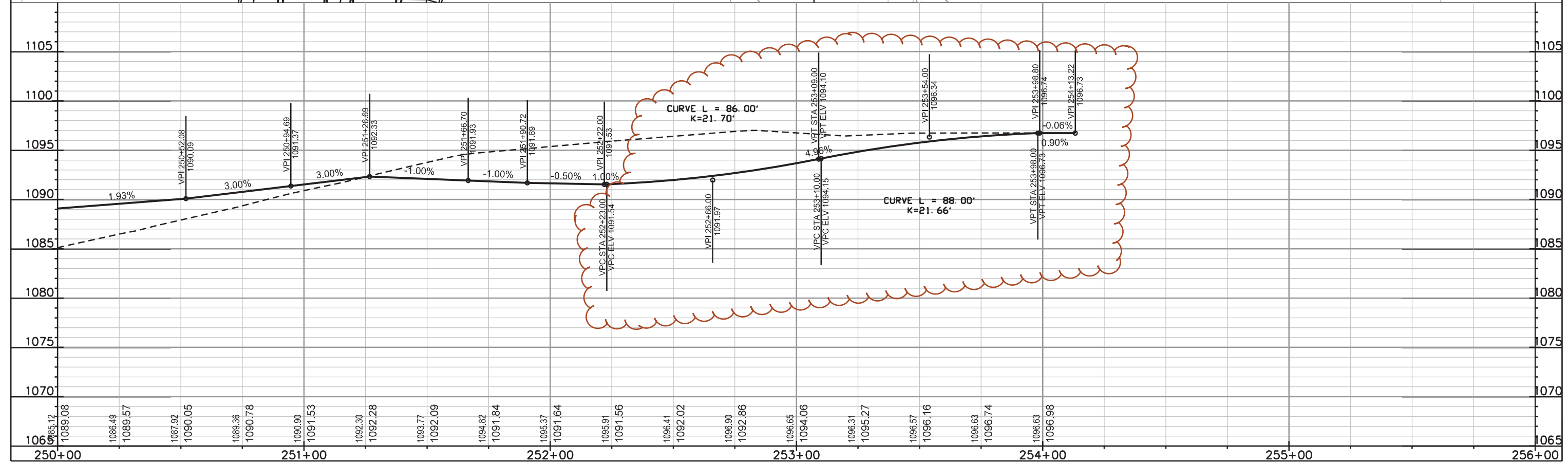




PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



REVISION NOTES:
 THE PREVIOUS SUGAR MAPLE LANE SURVEY WAS DONE BEFORE IT WAS SURFACED. A NEW SURVEY OF THE SURFACE SHOWED IT TO BE 0.25' LOWER THAN EXPECTED AT THE MATCHLINE. ADJUSTED PROFILE, CURB AND SIDEWALK GRADES ACCORDINGLY. ADDED DETECTABLE WARNING FIELDS FOR THE BIKE PATH CROSSING THAT WERE LEFT OFF PREVIOUSLY.

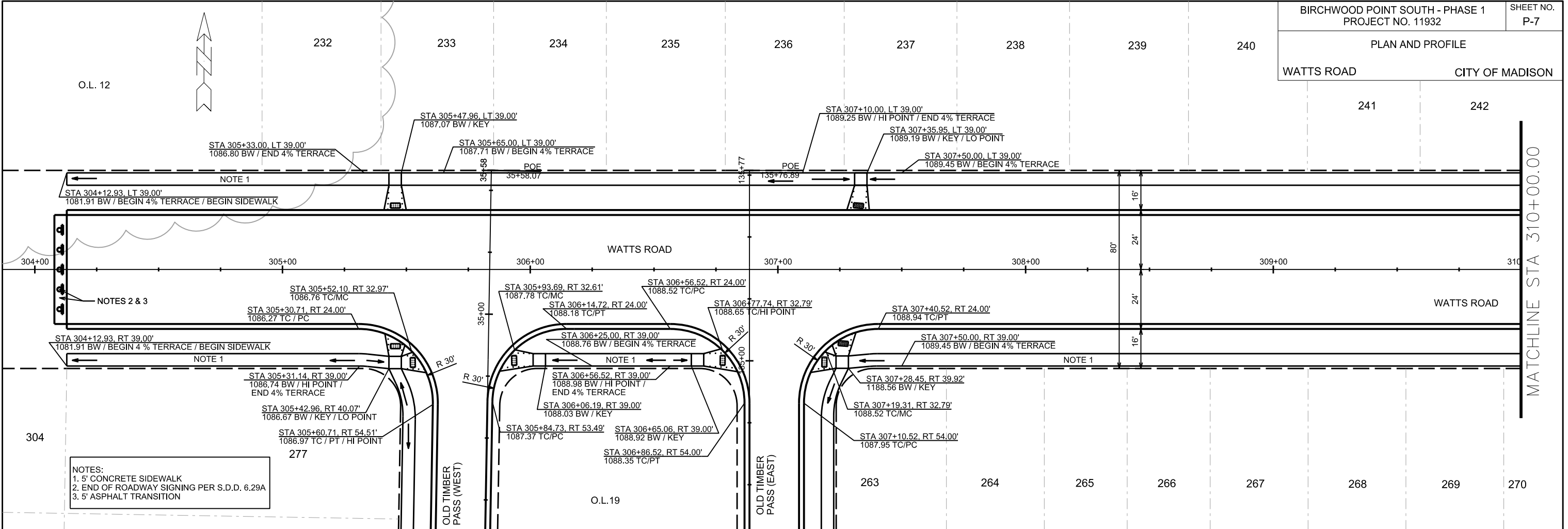


PLOT SCALE:

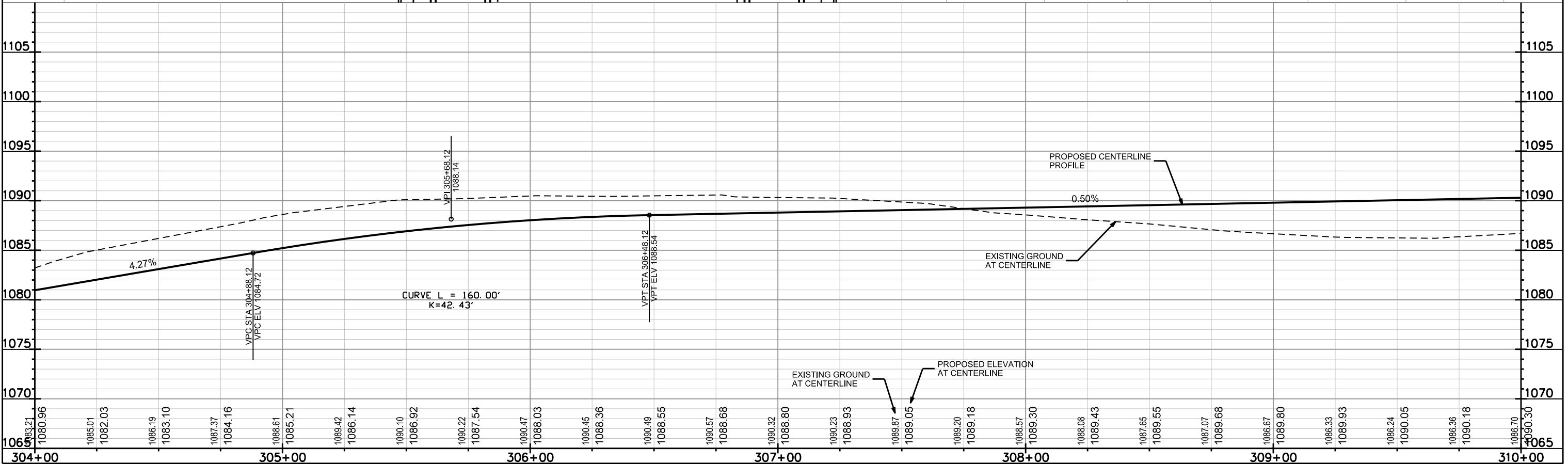
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:
1. 5' CONCRETE SIDEWALK
2. END OF ROADWAY SIGNING PER S.D.D. 6.29A
3. 5' ASPHALT TRANSITION

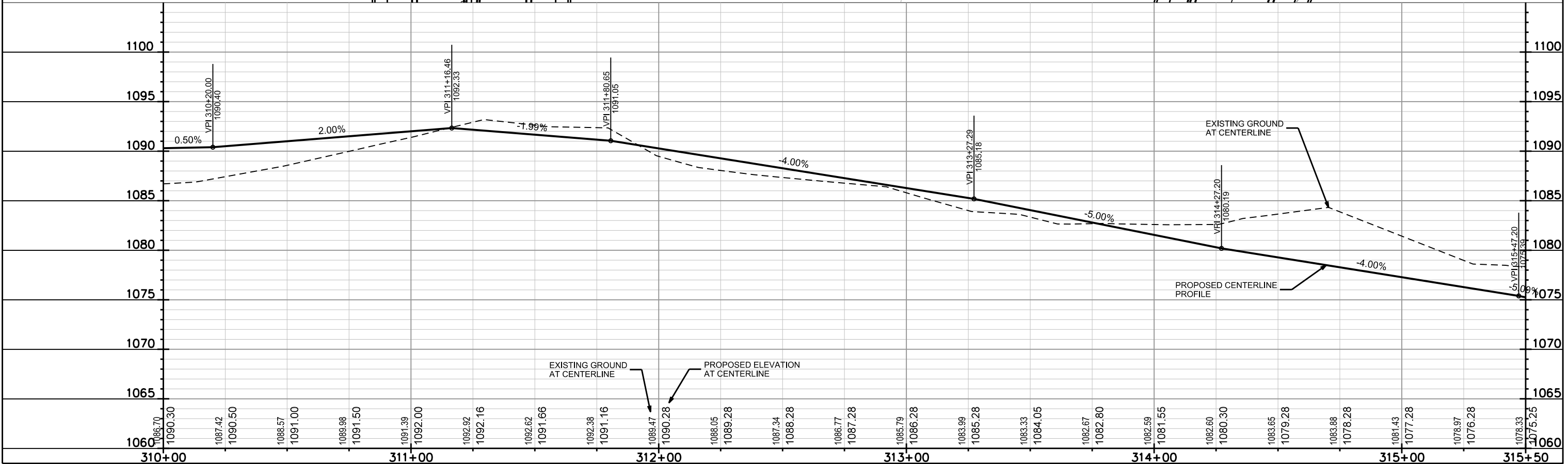
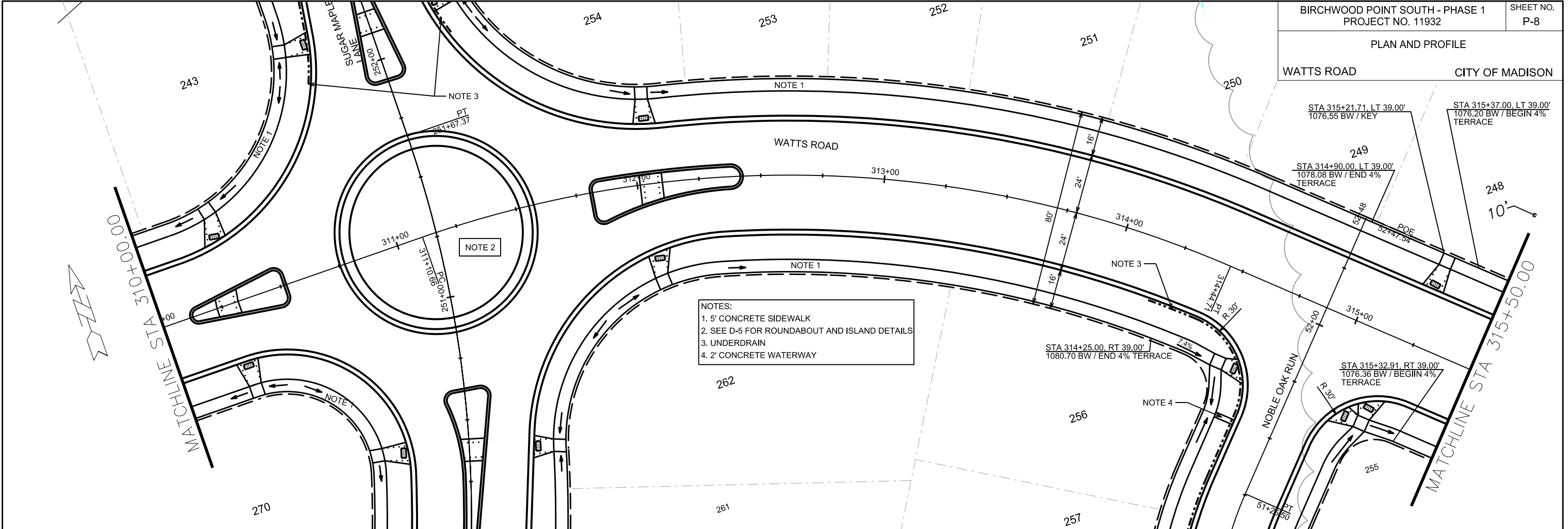


PLOT SCALE:

PLOT NAME:

REV. DATE:

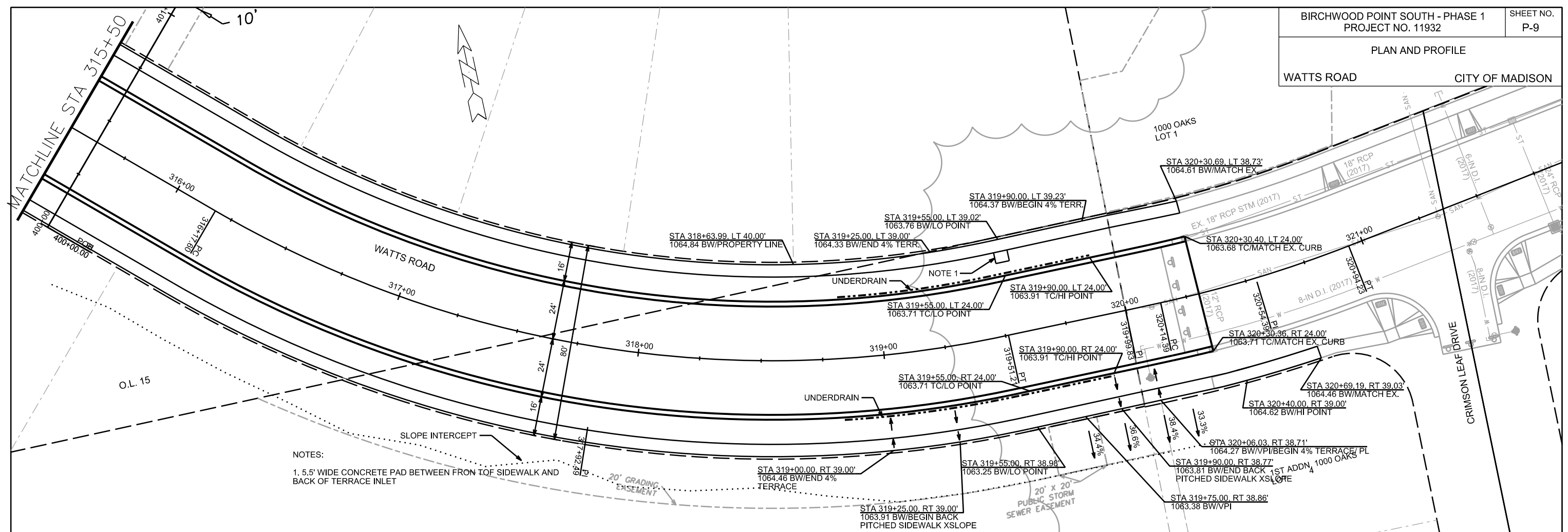
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



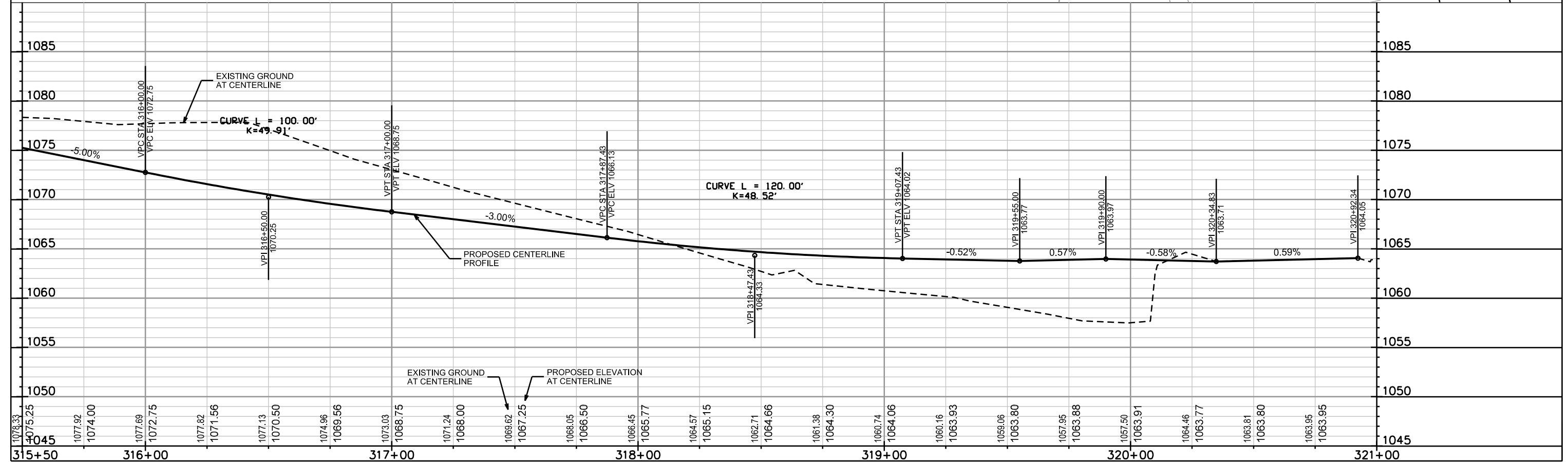
PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

WATTS ROAD CITY OF MADISON



NOTES:
1. 5.5' WIDE CONCRETE PAD BETWEEN FROM TOF SIDEWALK AND BACK OF TERRACE INLET



PLOT SCALE: _____

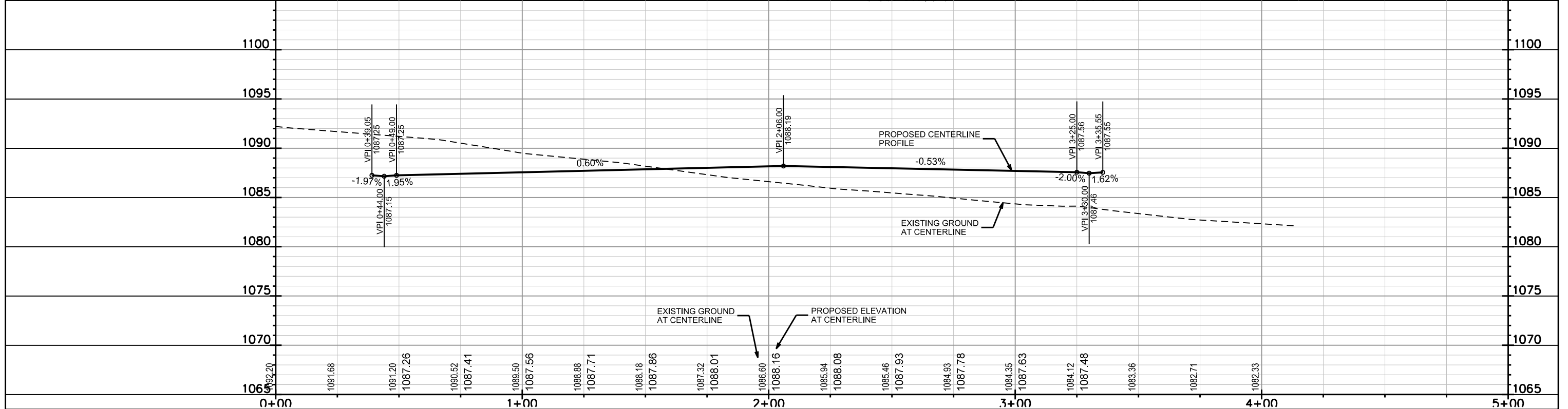
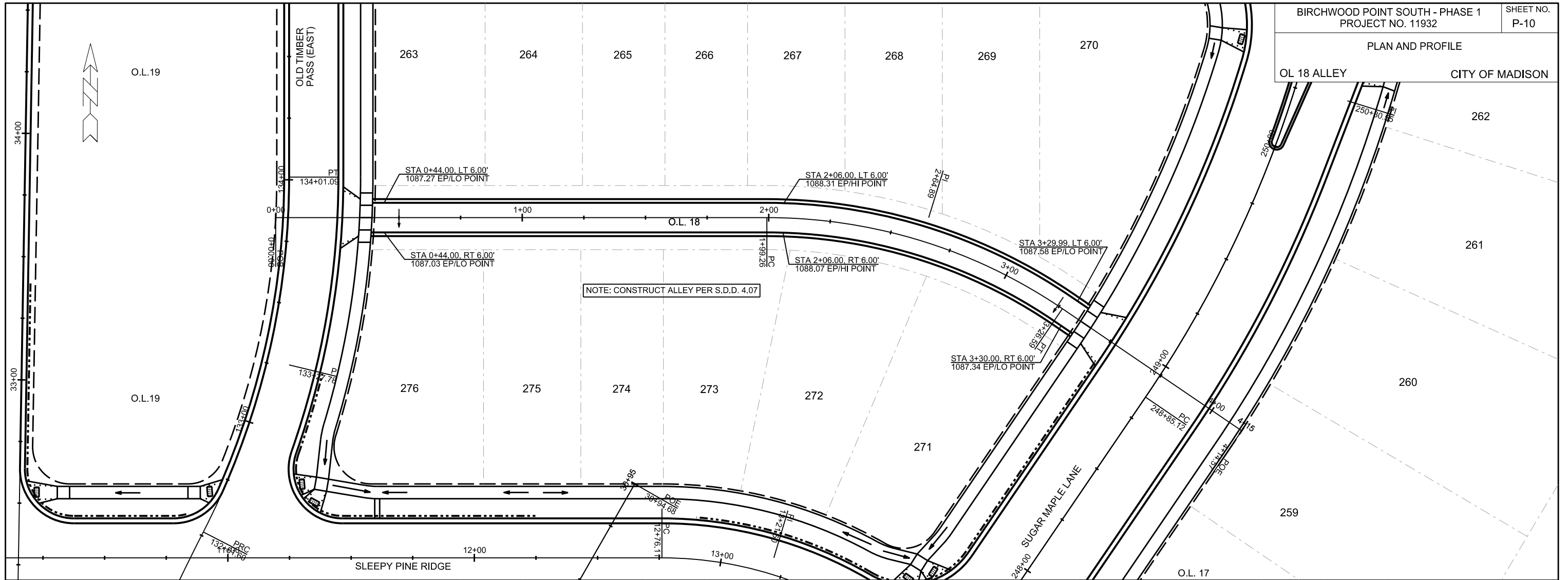
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

OL 18 ALLEY CITY OF MADISON



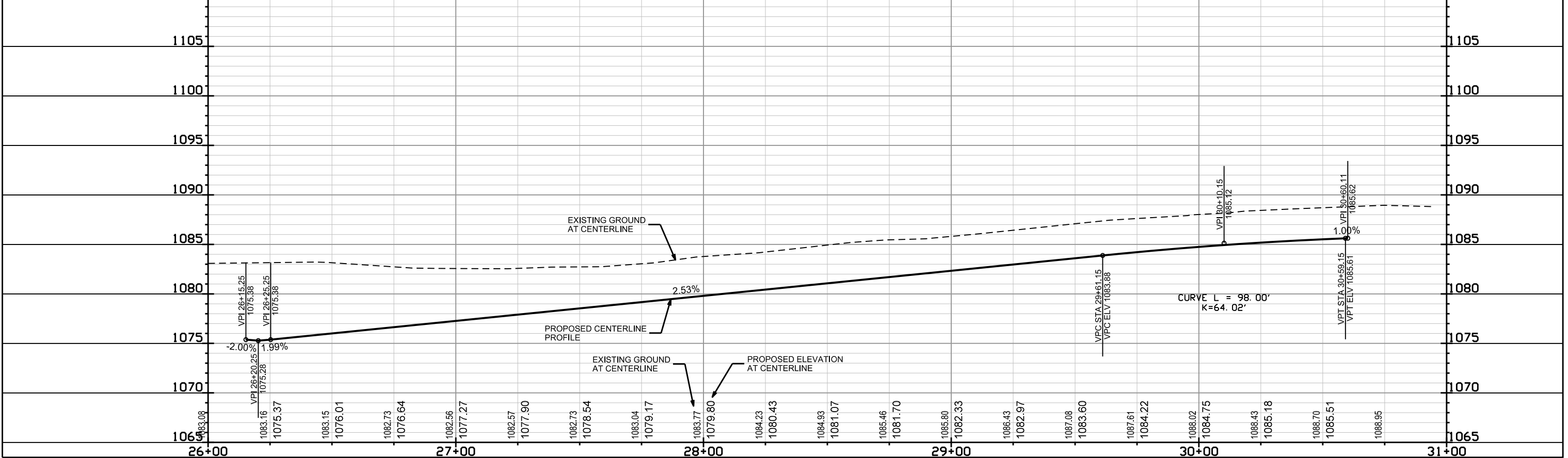
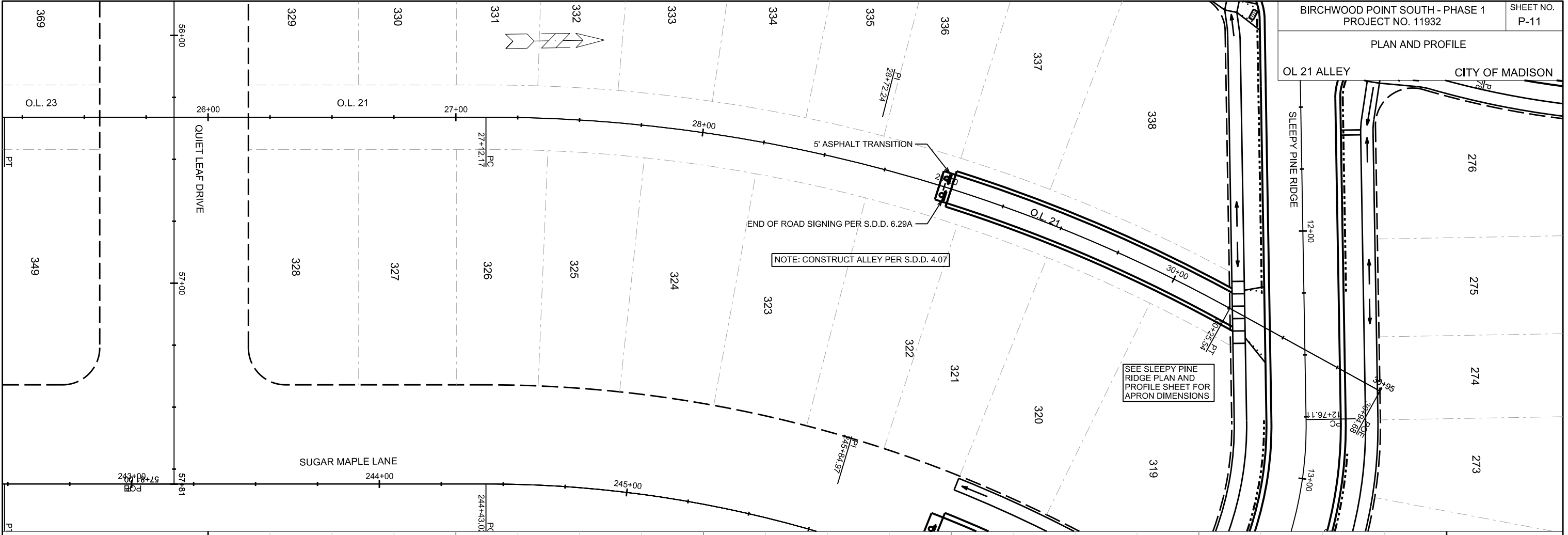
PLOT SCALE:

PLOT NAME:

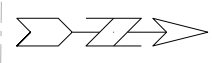
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE



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



444 443 442 441

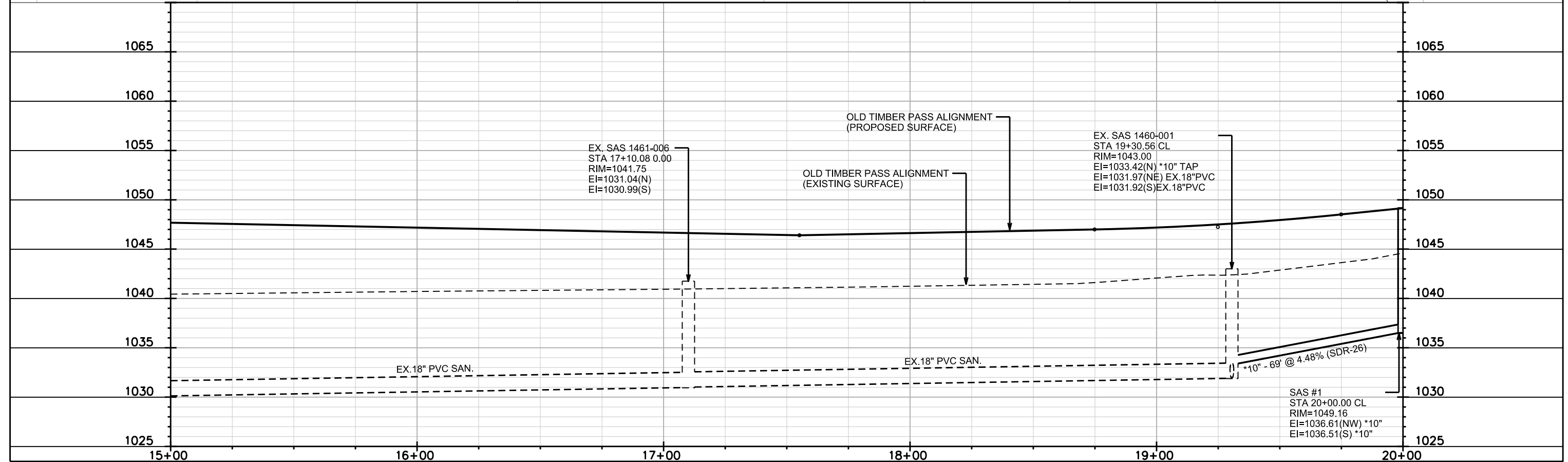
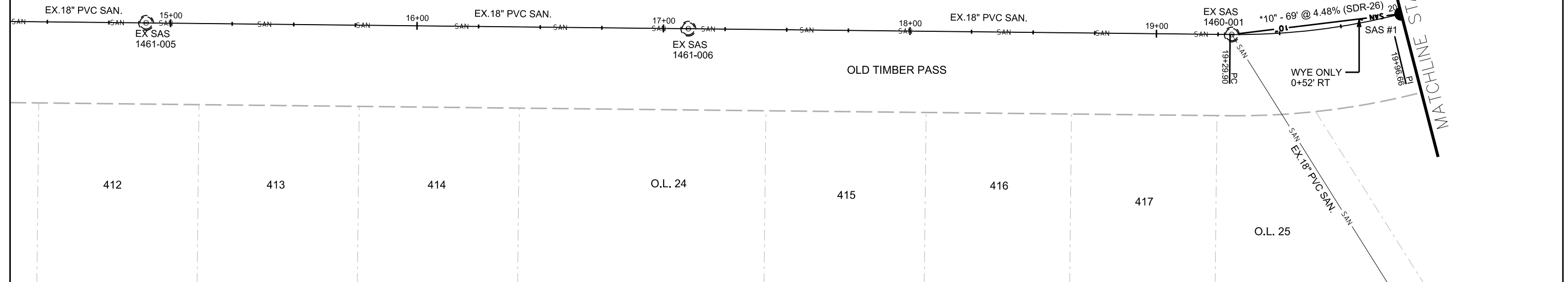
INSTALL SAS ACCESS ROAD TEMPORARY
IN CONFORMANCE WITH S.D.D. 5.1.3

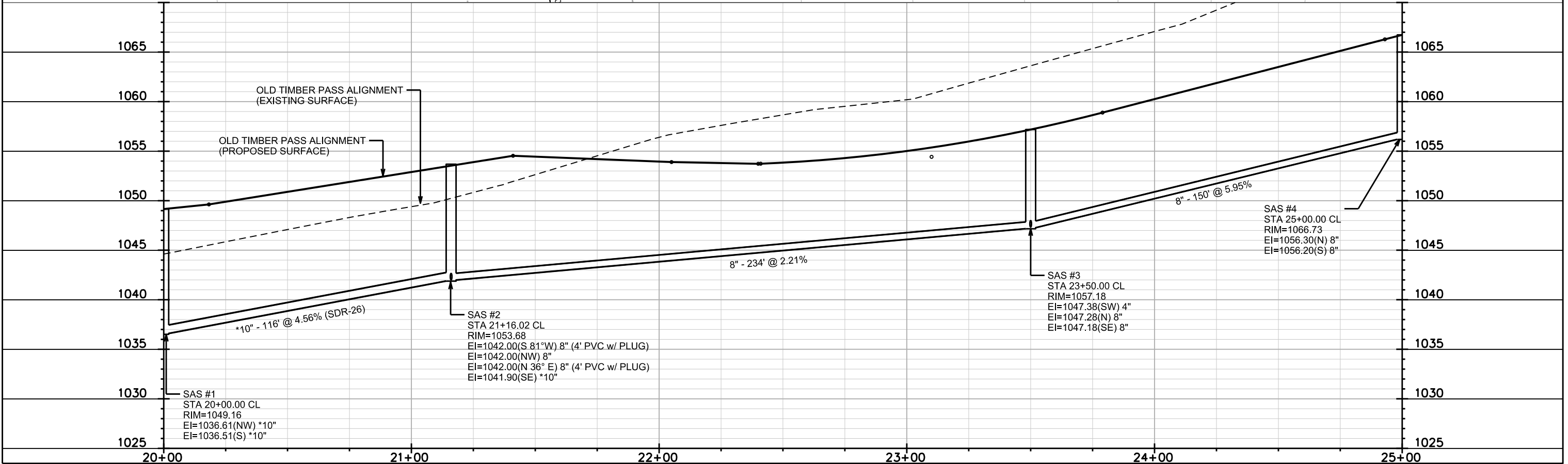
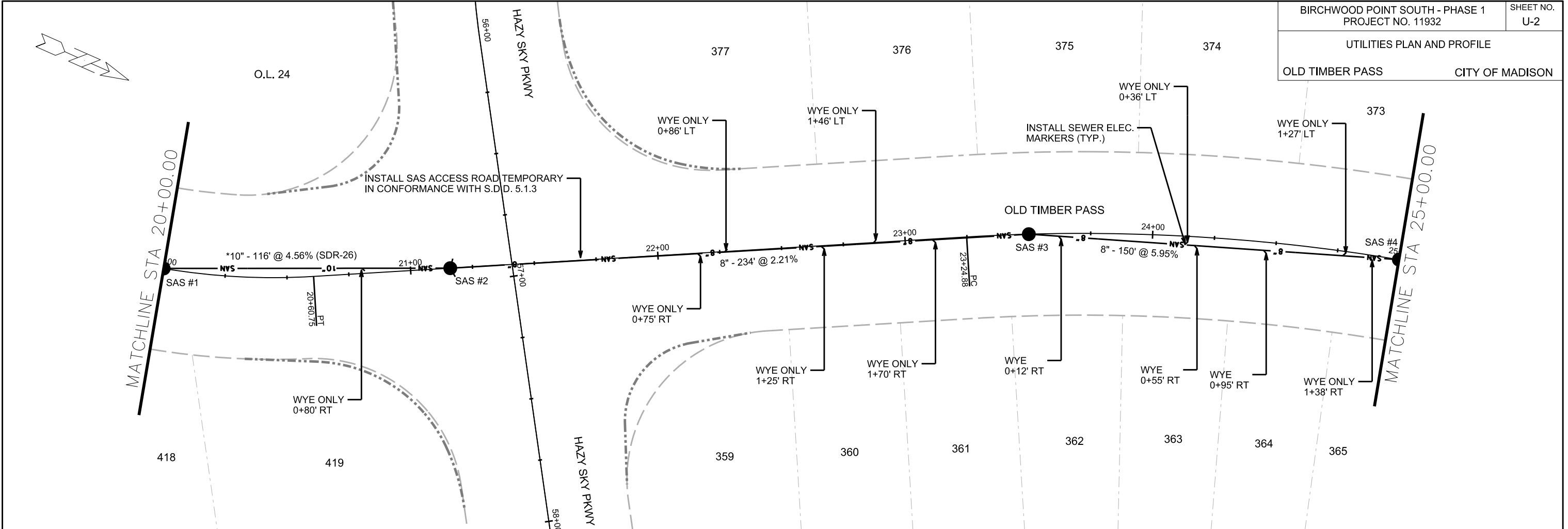
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



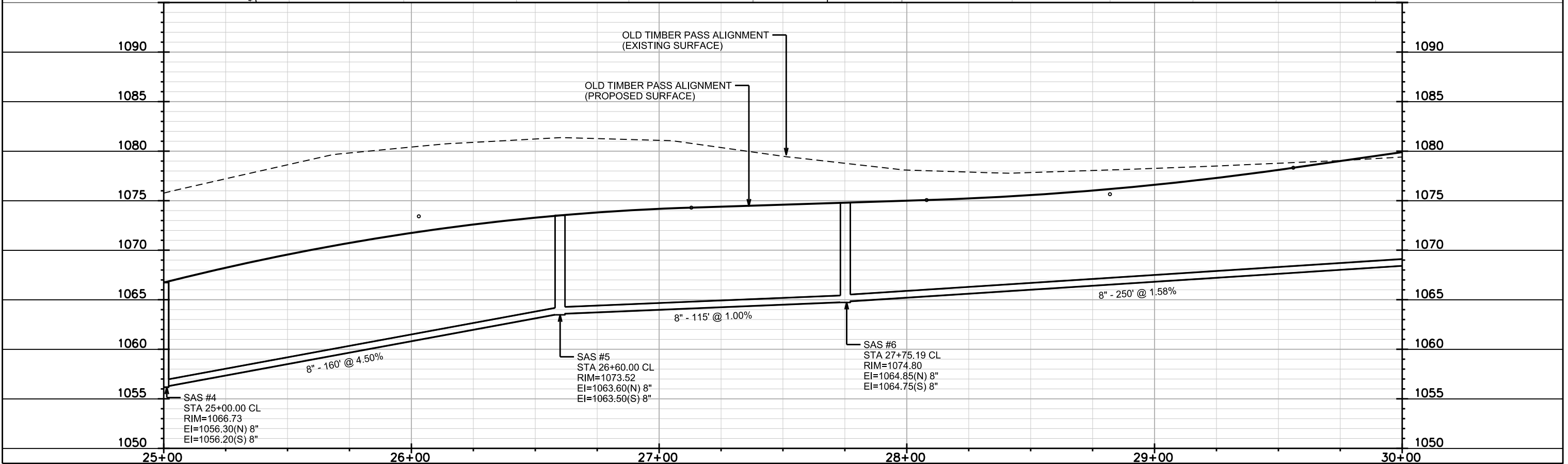
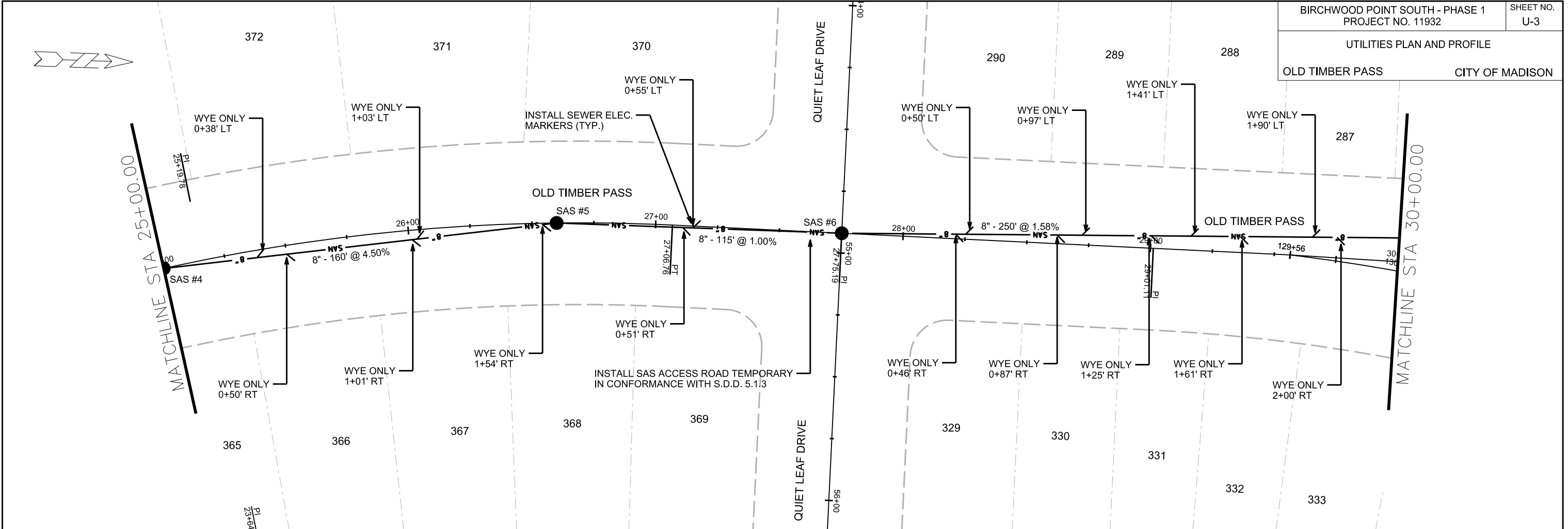


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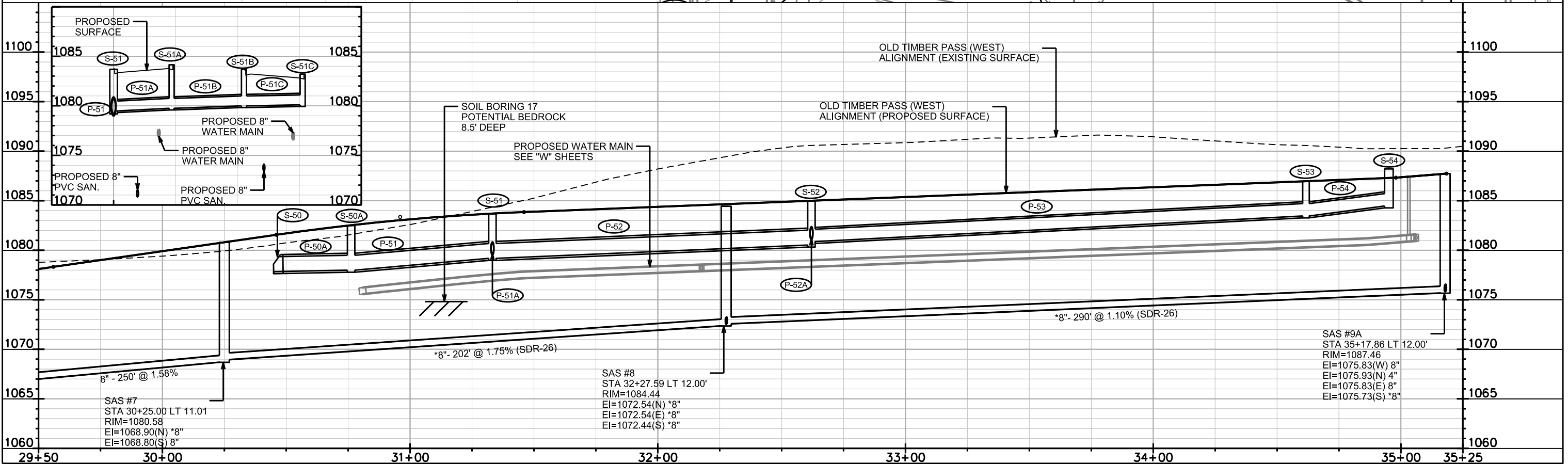
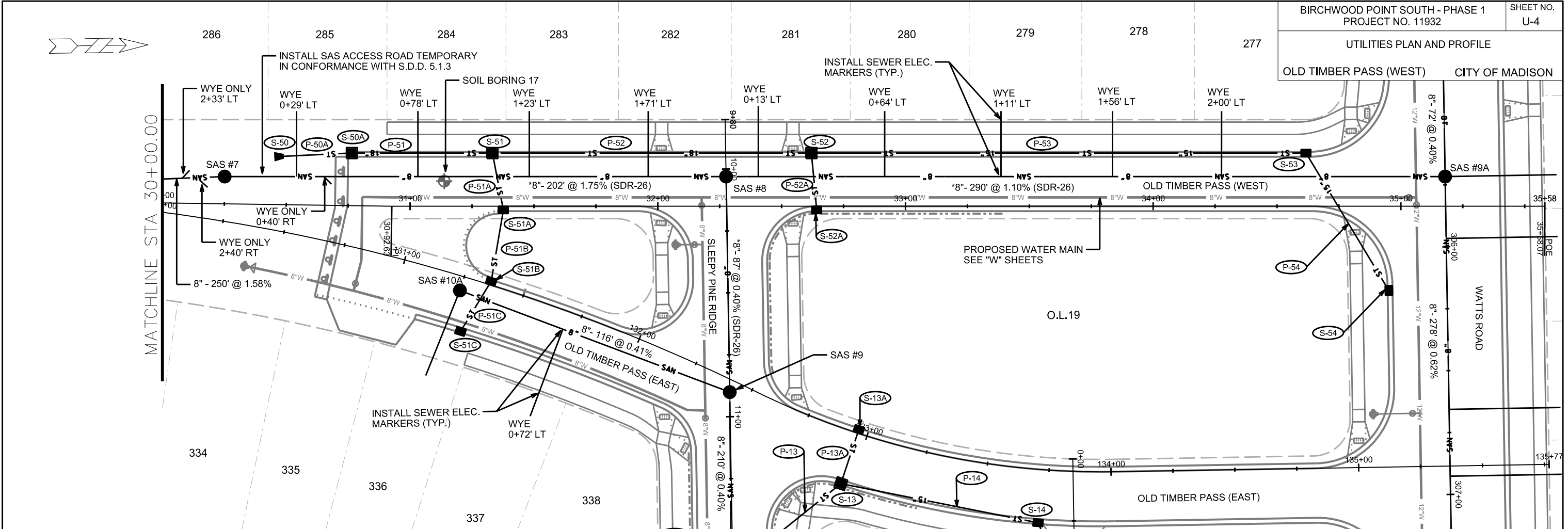
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

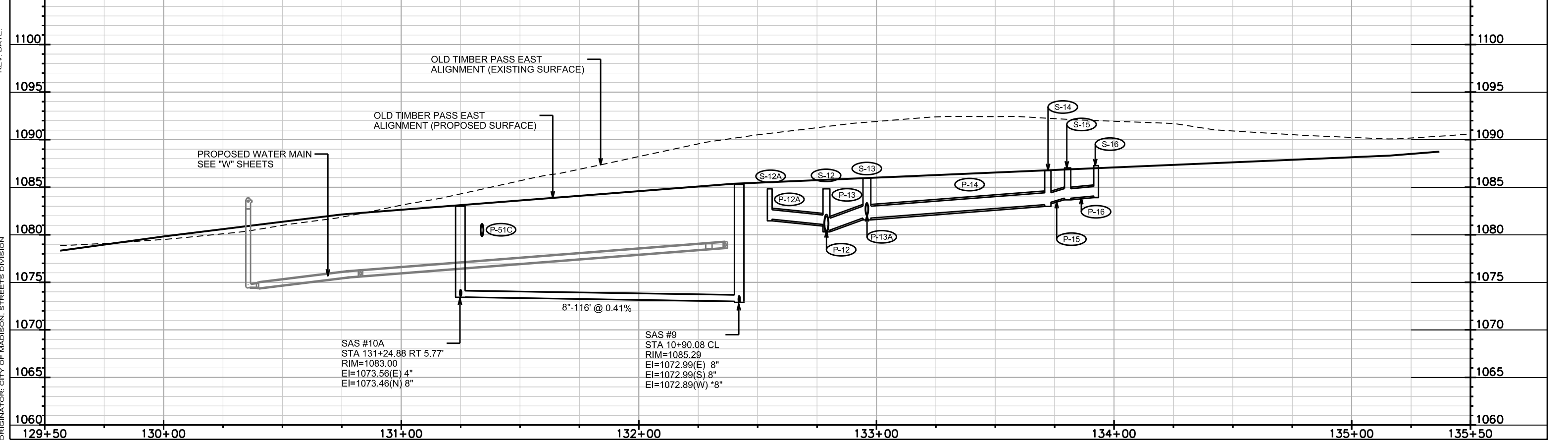
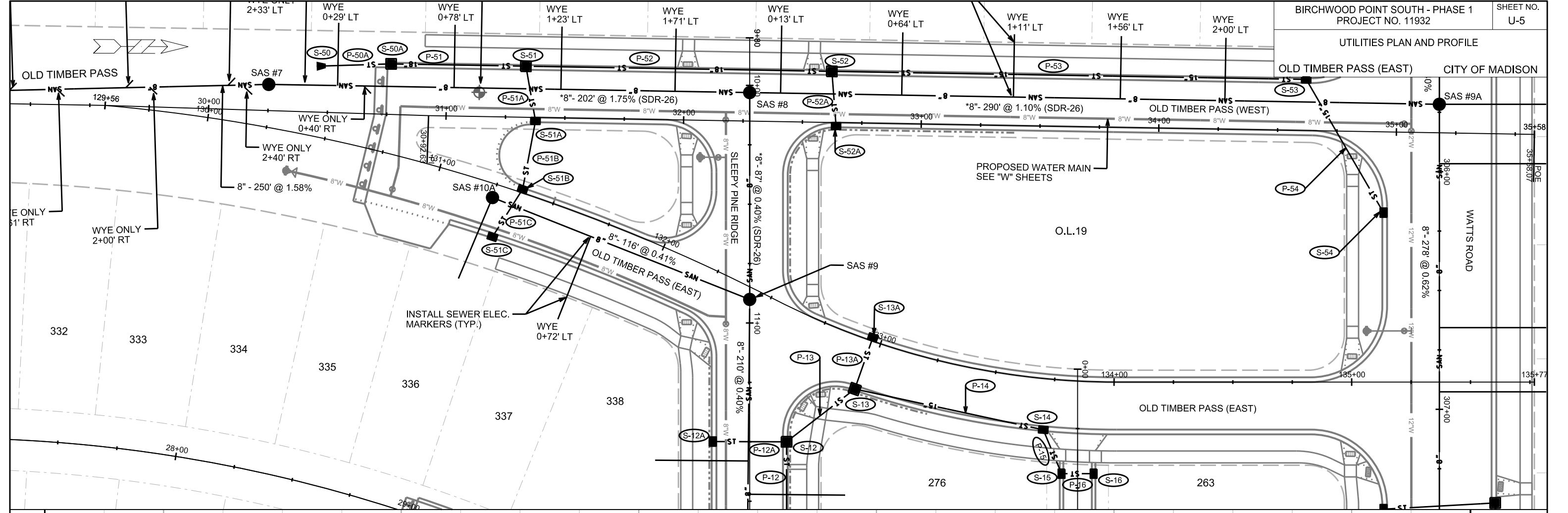


PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

UTILITIES PLAN AND PROFILE

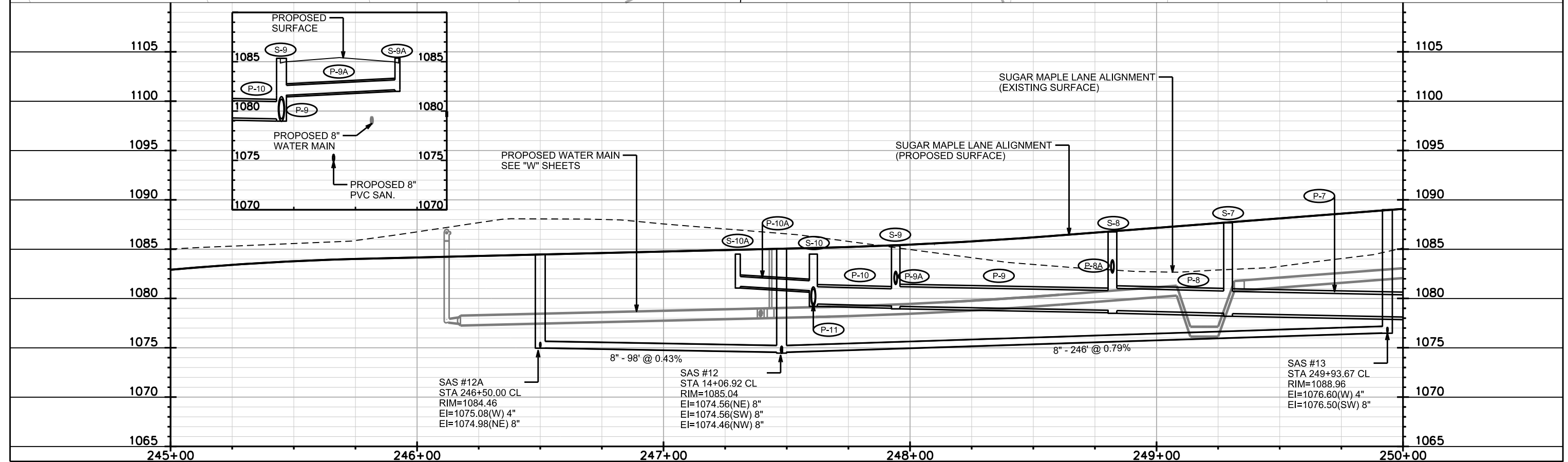
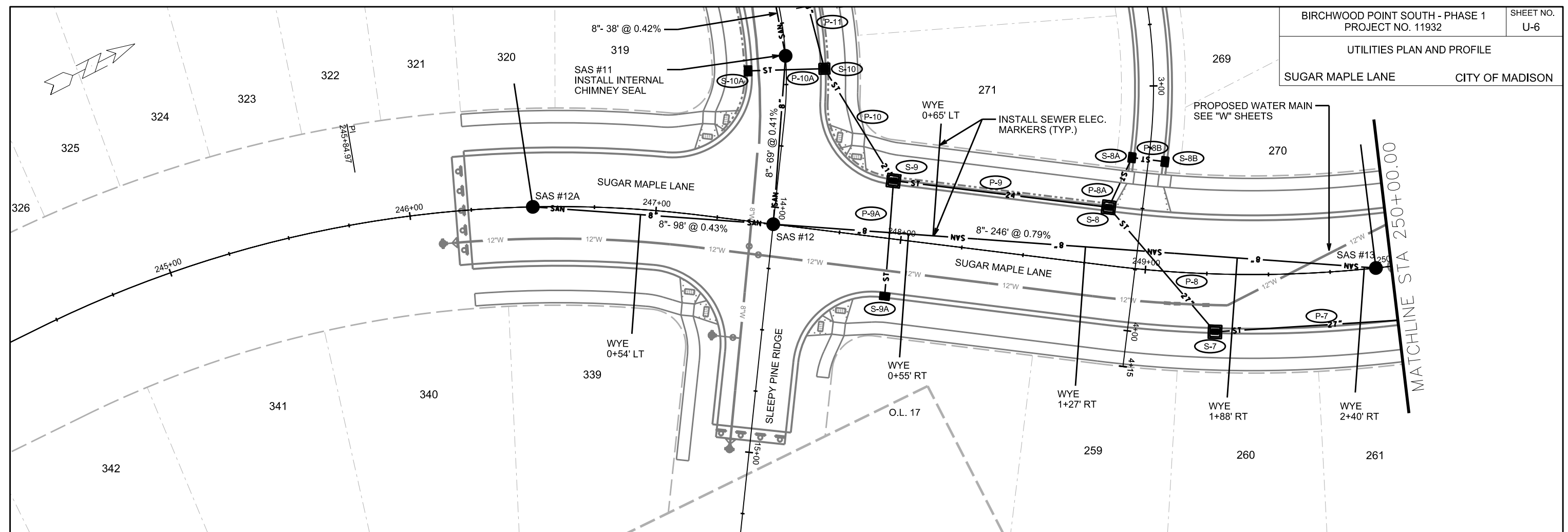


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

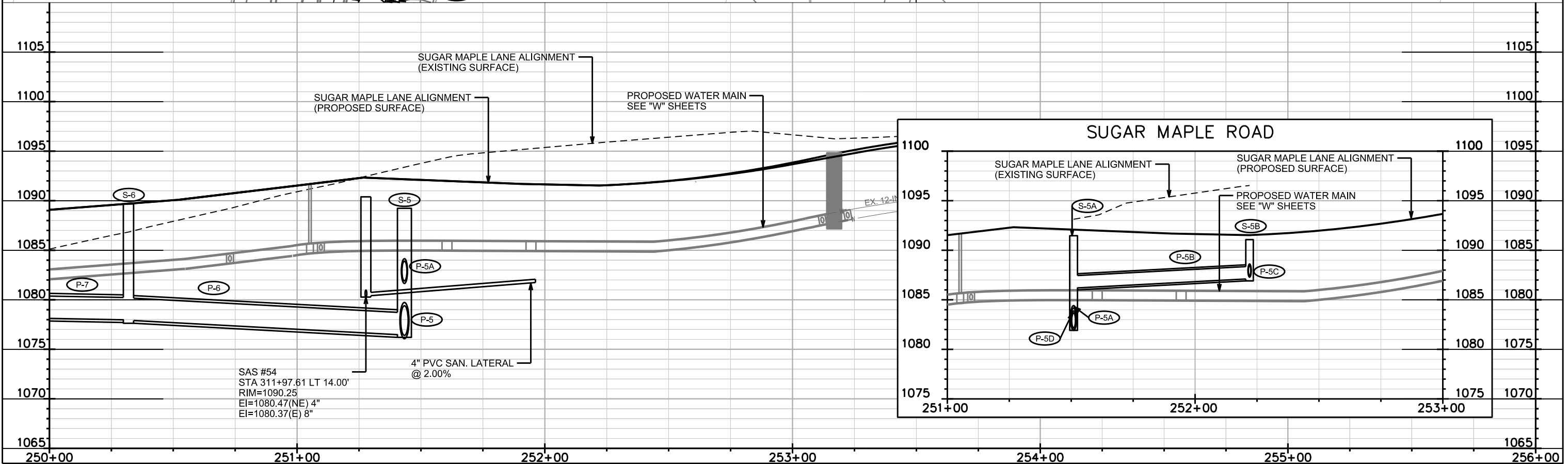
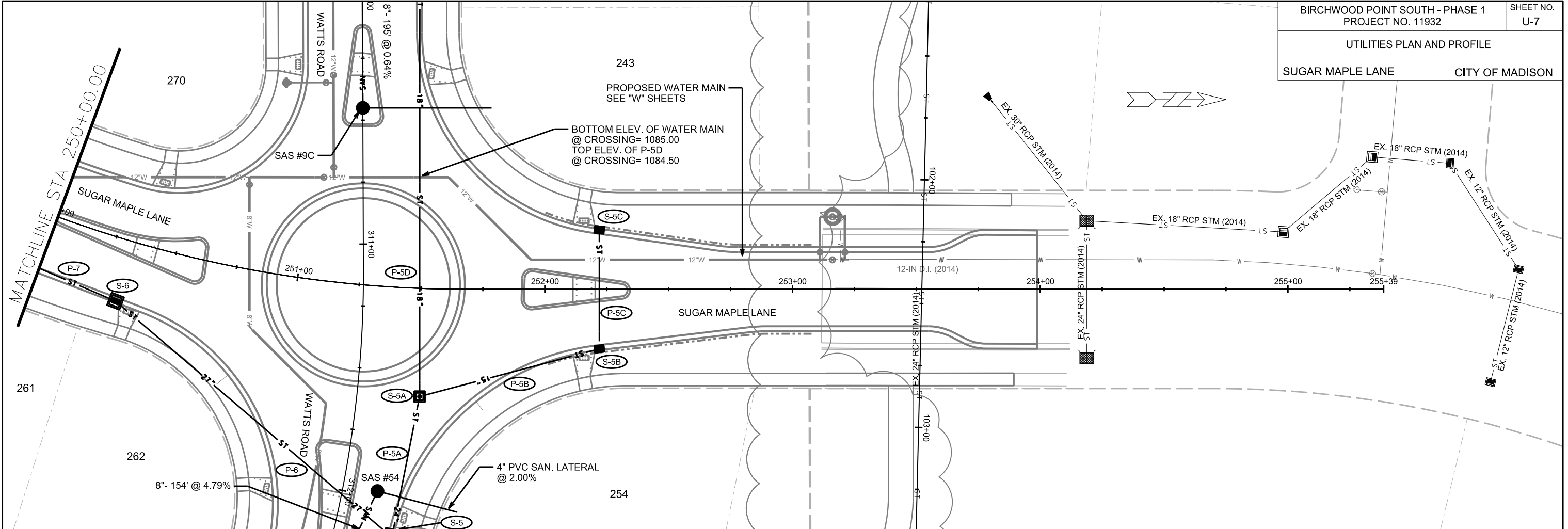


PLOT SCALE:

PLOT NAME:

REV. DATE:

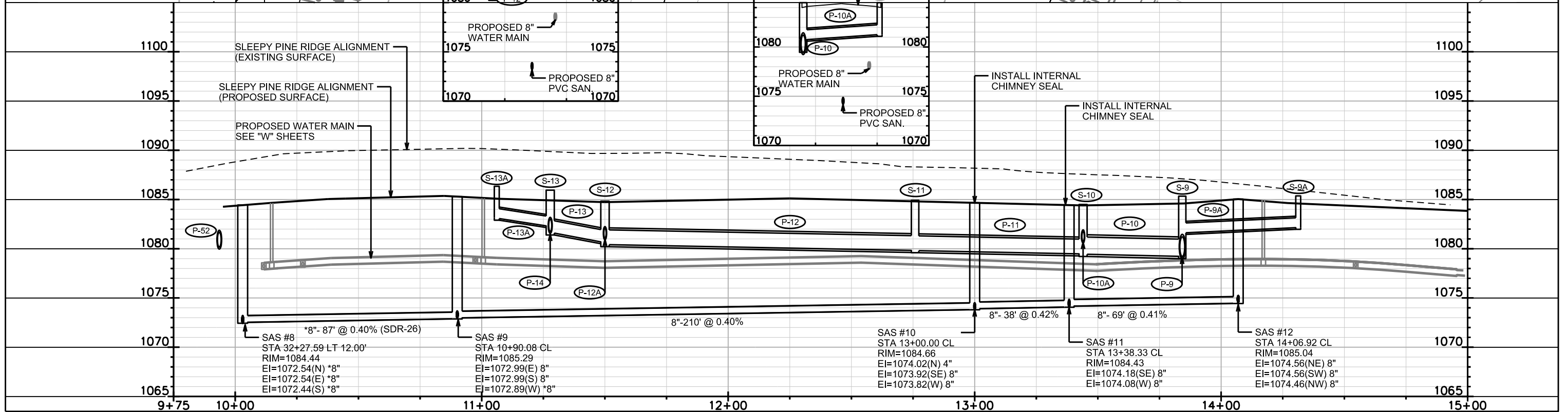
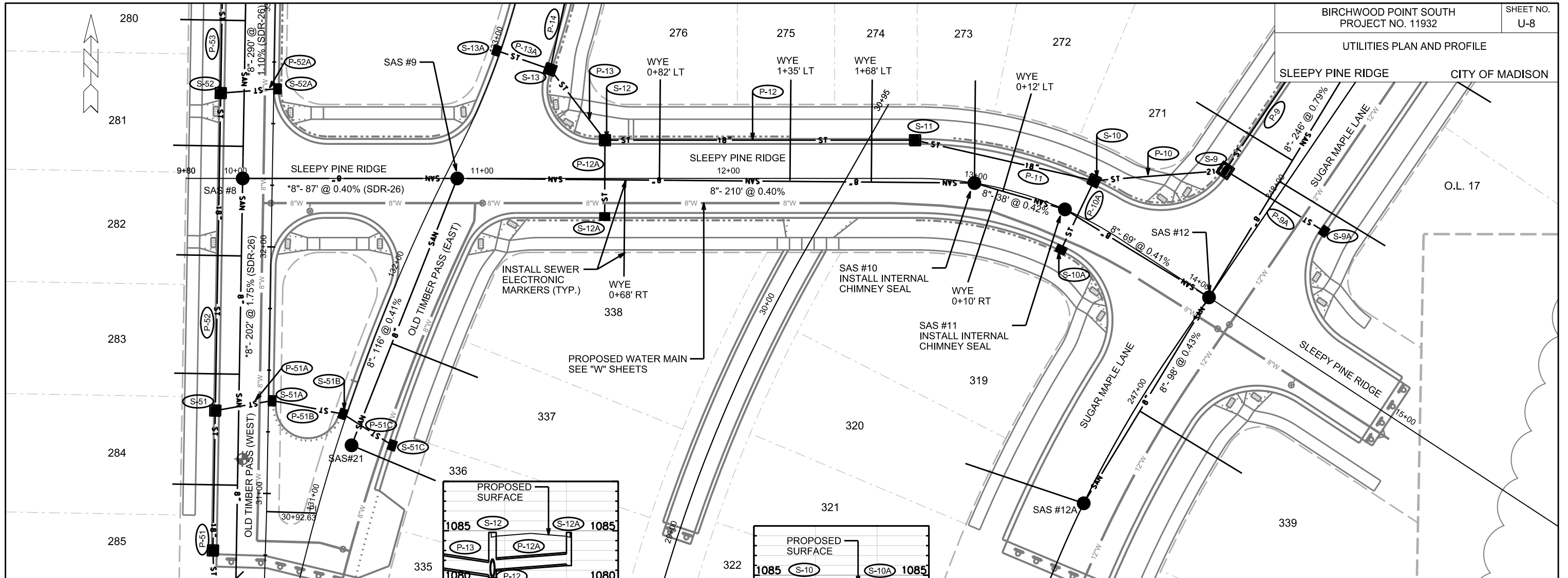
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

UTILITIES PLAN AND PROFILE

SLEEPY PINE RIDGE CITY OF MADISON

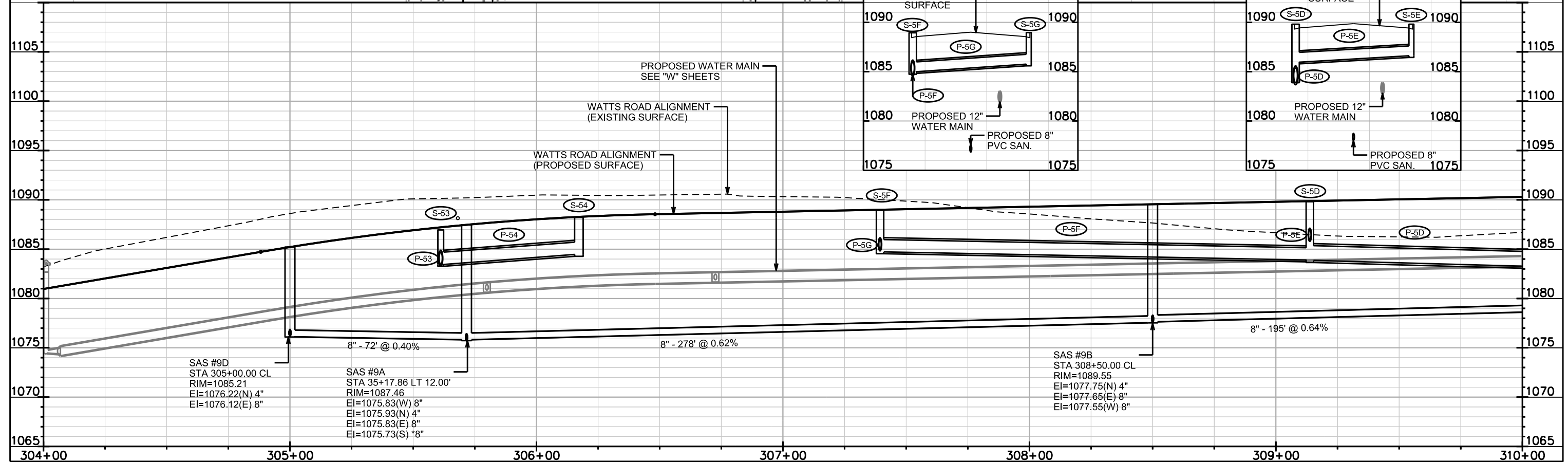
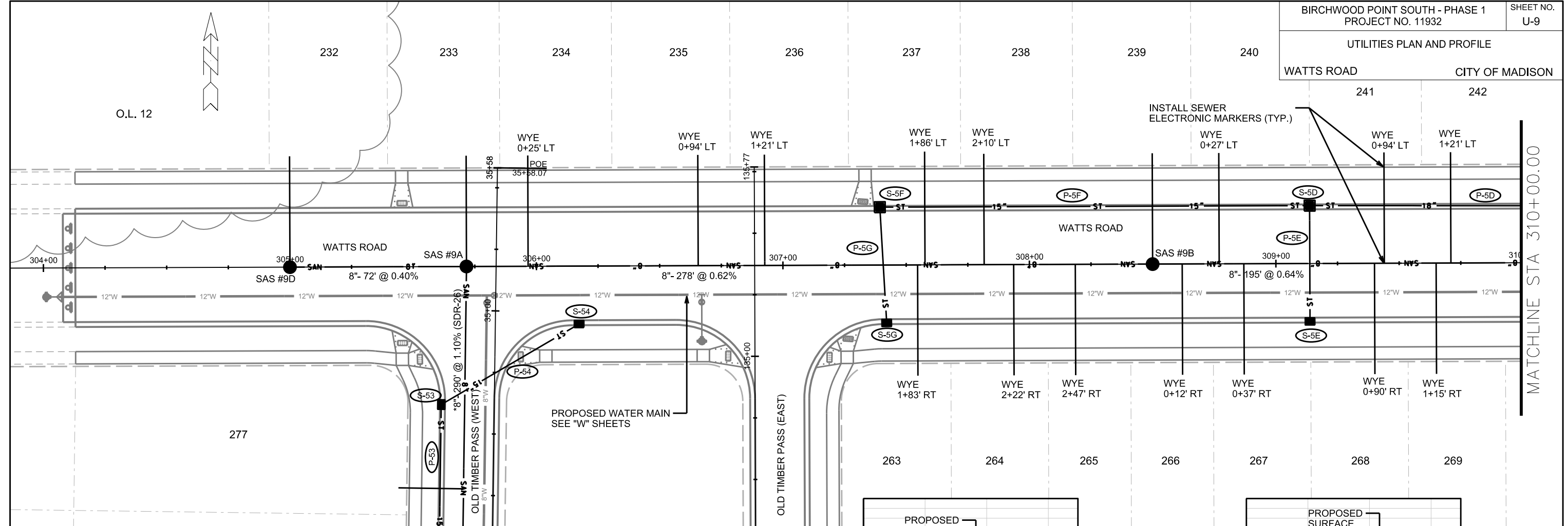


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SAS #9D
STA 305+00.00 CL
RIM=1085.21
EI=1076.22(N) 4"
EI=1076.12(E) 8"

SAS #9A
STA 35+17.86 LT 12.00'
RIM=1087.46
EI=1075.83(W) 8"
EI=1075.93(N) 4"
EI=1075.83(E) 8"
EI=1075.73(S) 8"

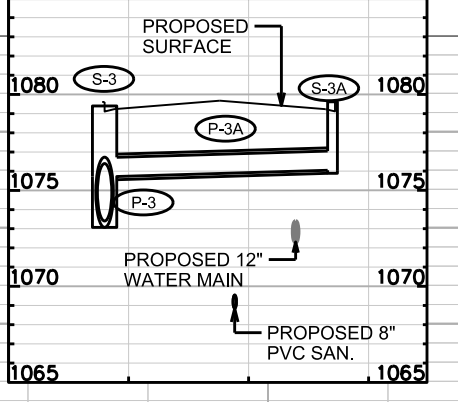
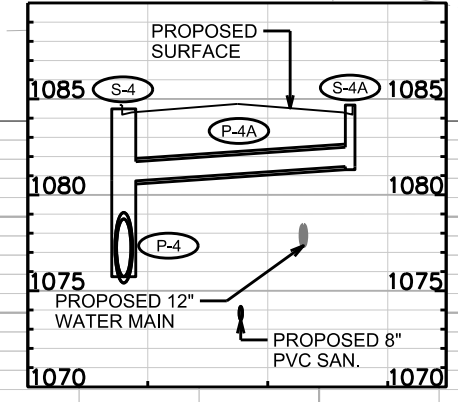
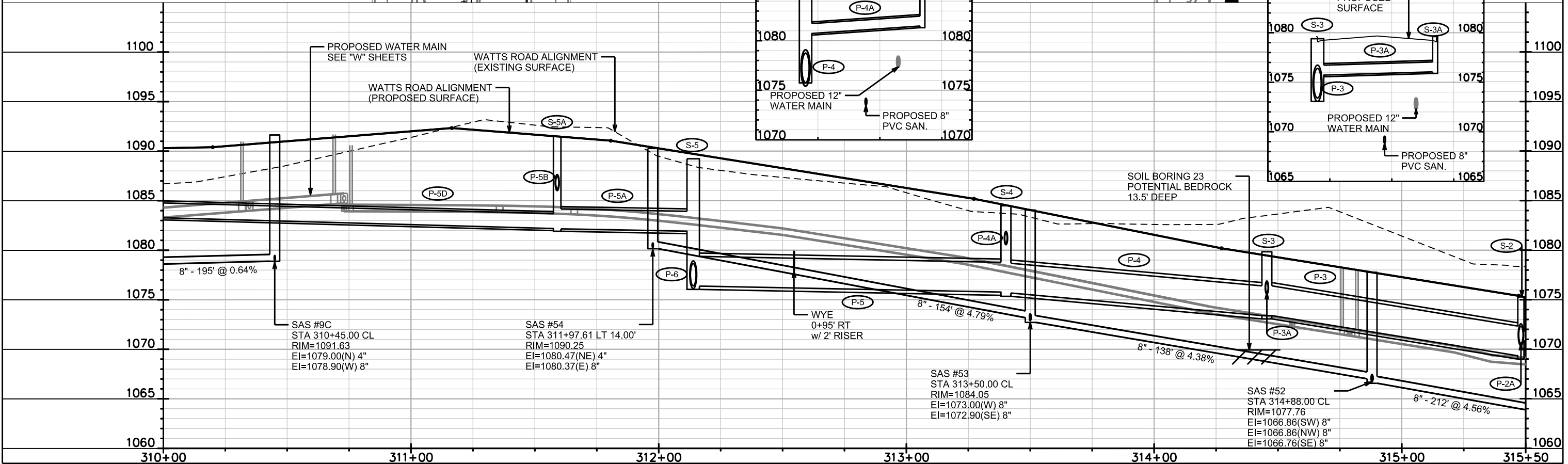
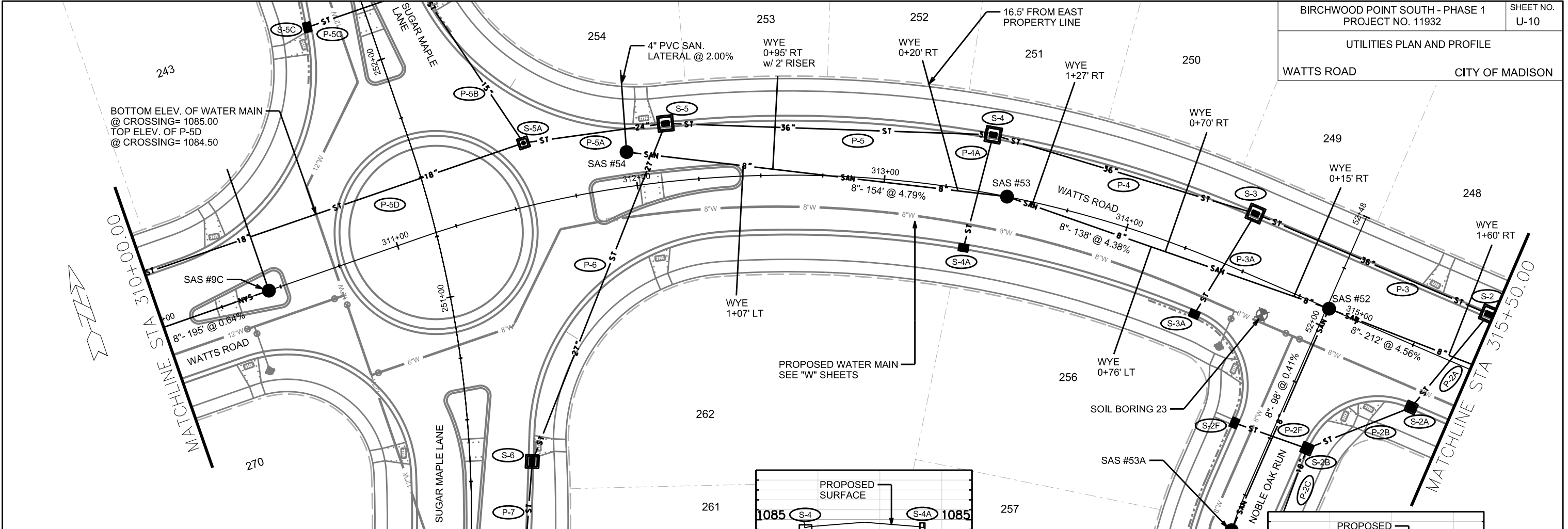
SAS #9B
STA 308+50.00 CL
RIM=1089.55
EI=1077.75(N) 4"
EI=1077.65(E) 8"
EI=1077.55(W) 8"

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



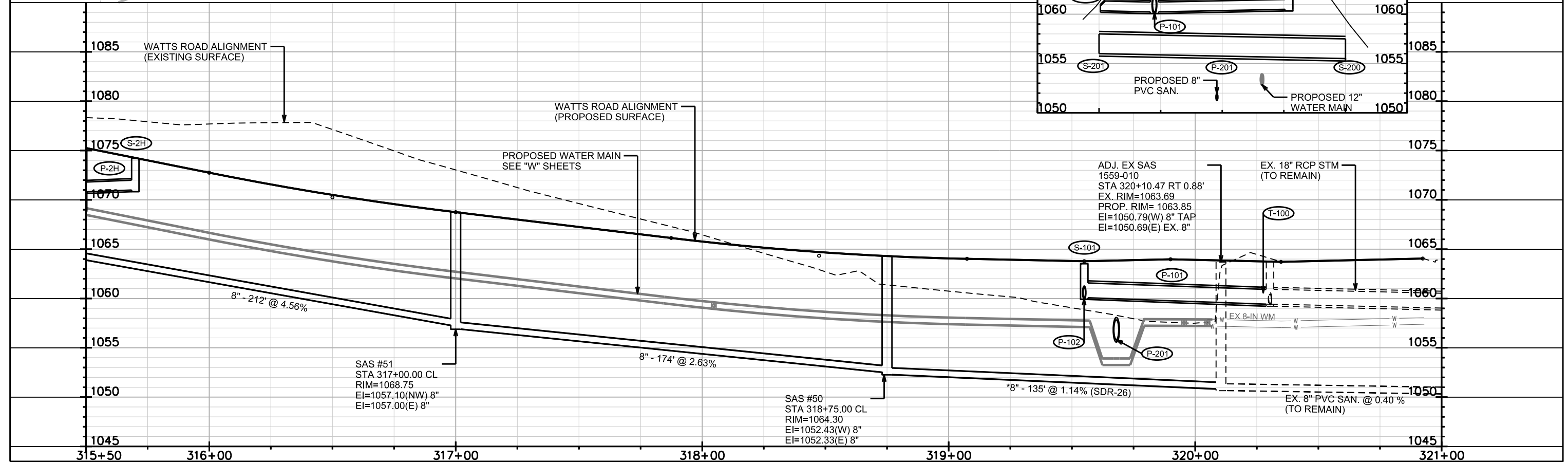
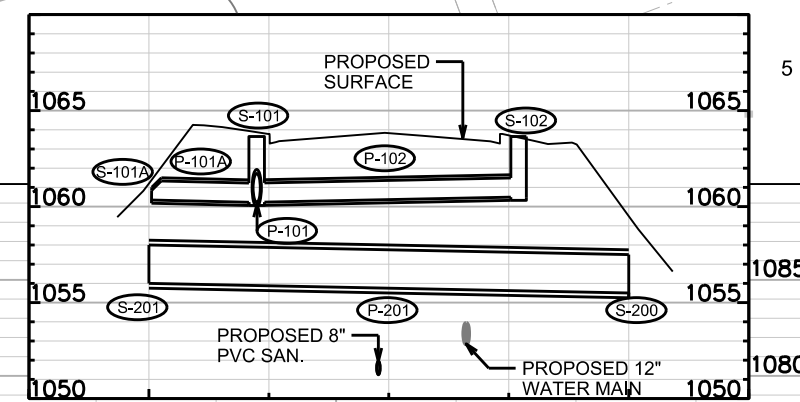
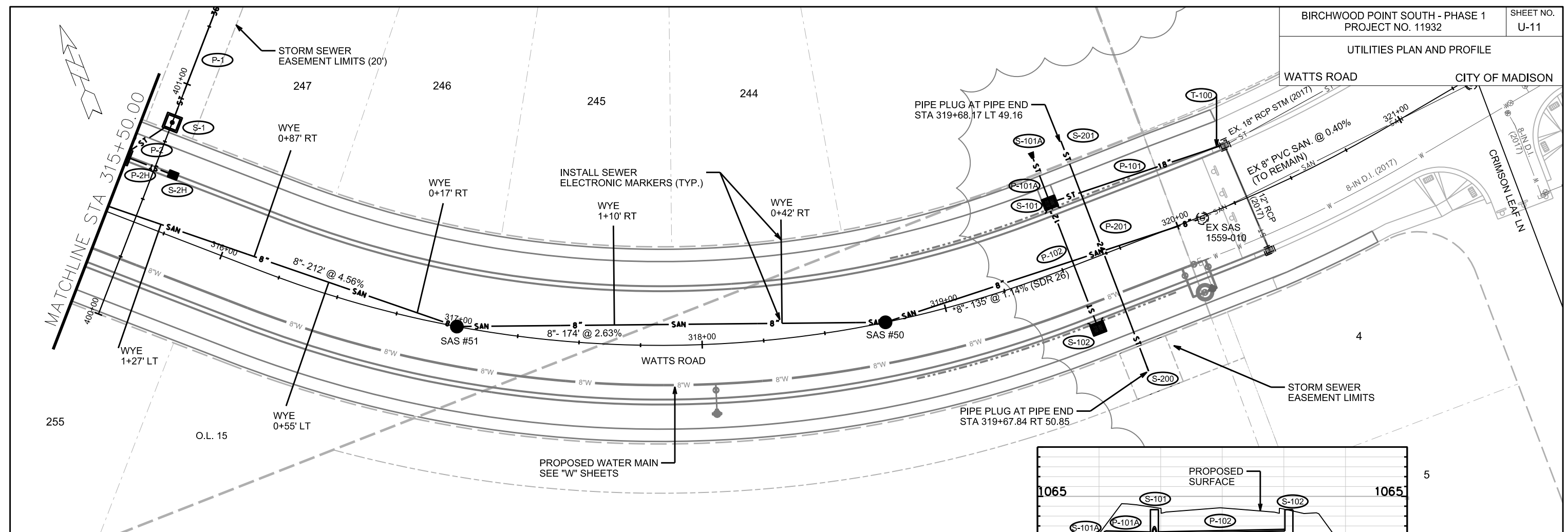
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES PLAN AND PROFILE



SAS #51
STA 317+00.00 CL
RIM=1068.75
EI=1057.10(NW) 8"
EI=1057.00(E) 8"

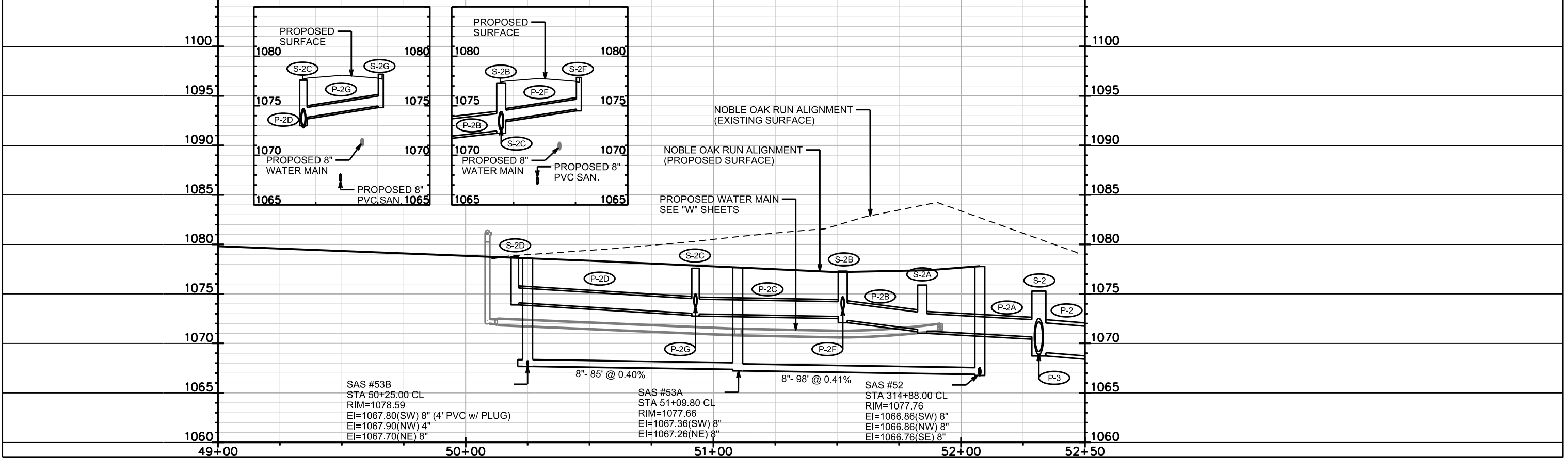
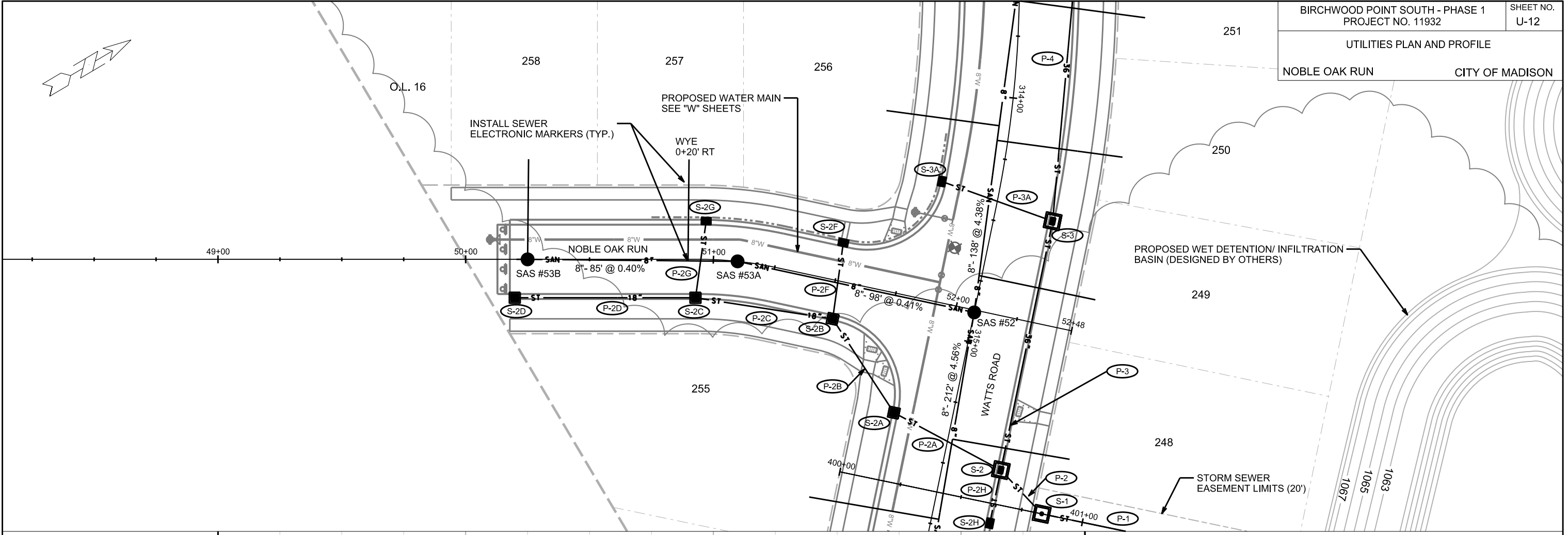
SAS #50
STA 318+75.00 CL
RIM=1064.30
EI=1052.43(W) 8"
EI=1052.33(E) 8"

ADJ. EX SAS
1559-010
STA 320+10.47 RT 0.88'
EX. RIM=1063.69
PROP. RIM= 1063.85
EI=1050.79(W) 8" TAP
EI=1050.69(E) EX. 8"

EX. 18" RCP STM
(TO REMAIN)

EX. 8" PVC SAN. @ 0.40%
(TO REMAIN)

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



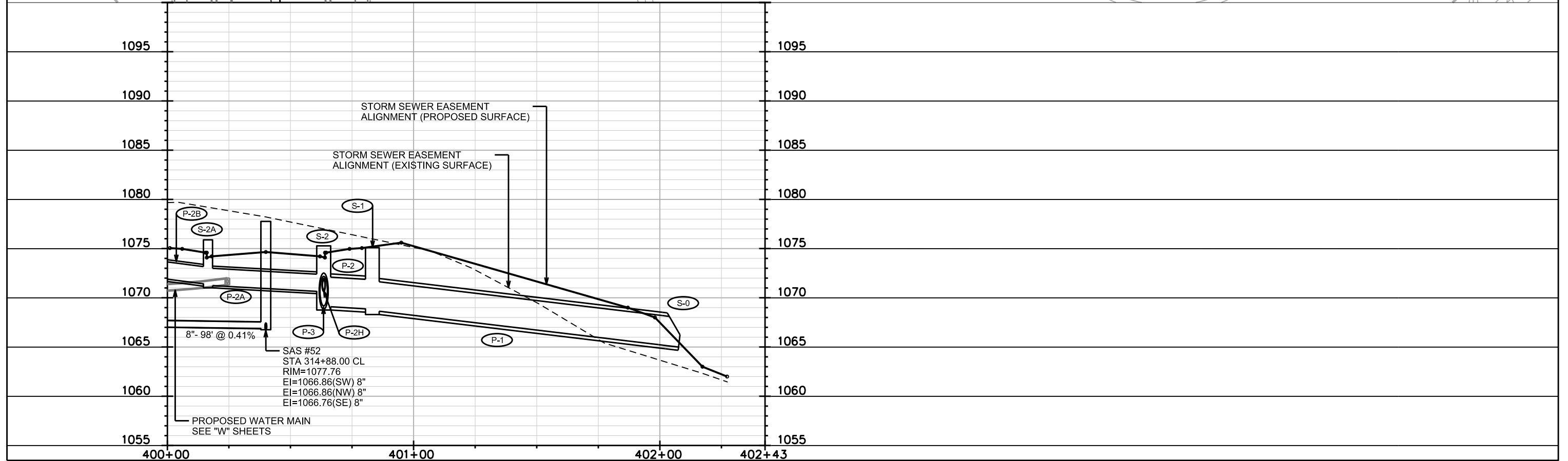
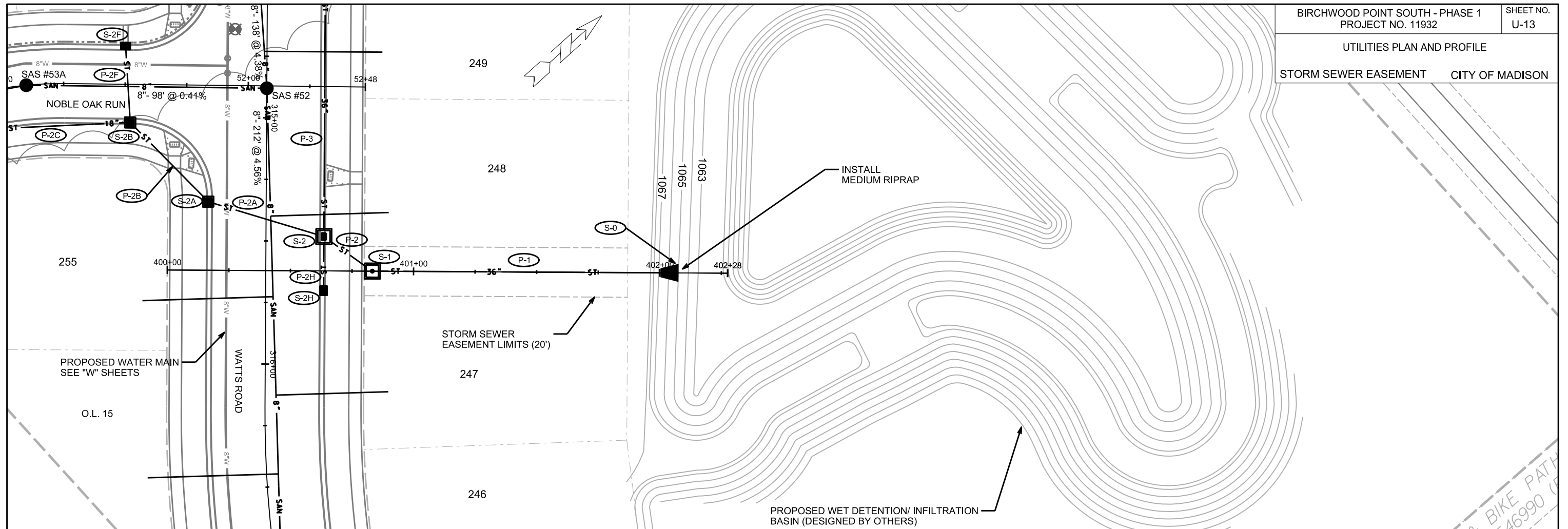
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES PLAN AND PROFILE
STORM SEWER EASEMENT CITY OF MADISON

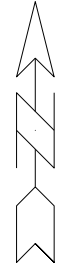


PLOT SCALE:

PLOT NAME:

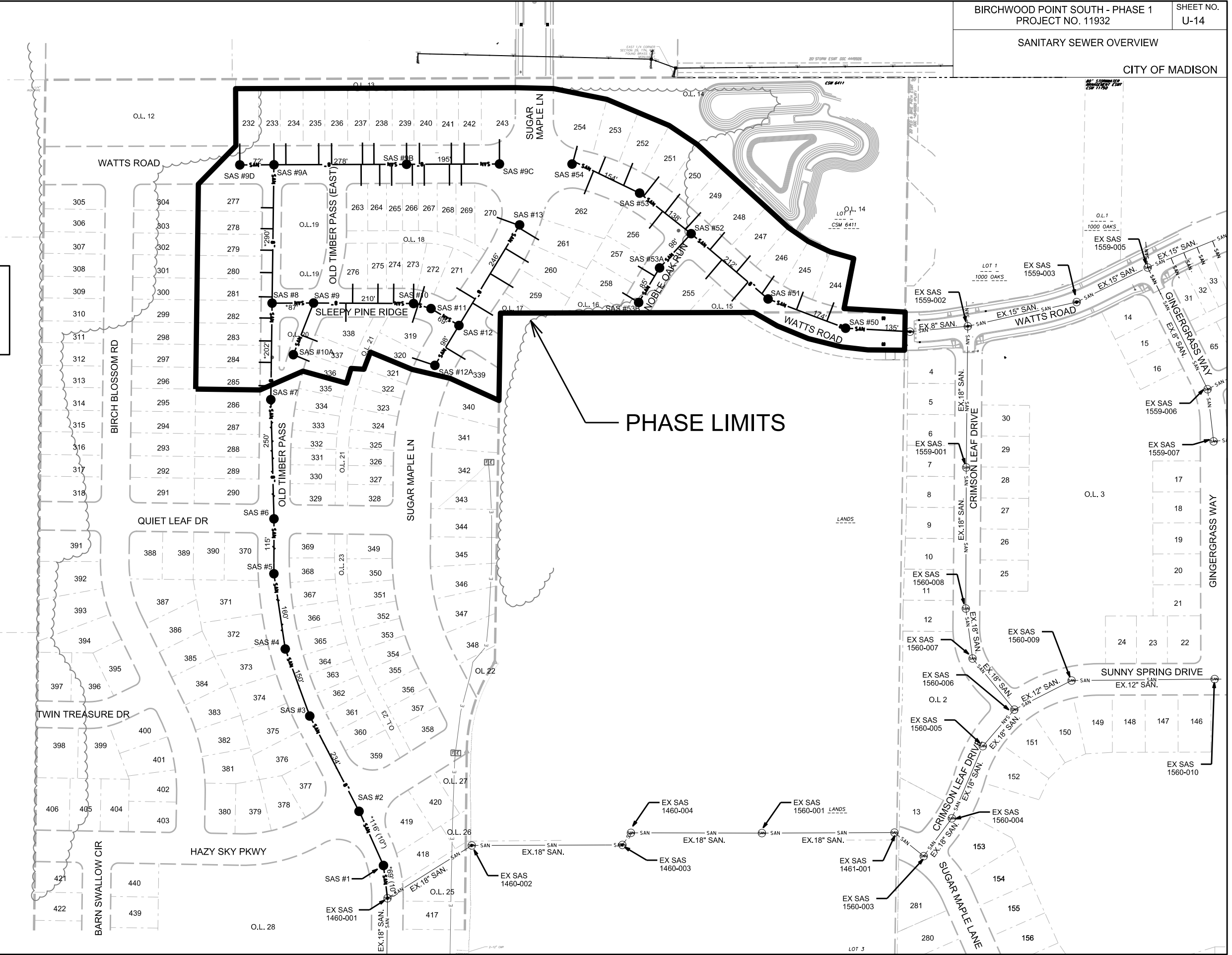
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SCALE 1"=200'

ALL PROPOSED SANITARY SEWER TO BE
8" DIA. PVC UNLESS OTHERWISE NOTED.
* PIPE SHALL CONFORM TO SPECIFICATIONS
OF ASTM D3034 SDR-26



PHASE LIMITS

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 (FT)	NOTES
OLD TIMBER PASS						
SAS #1	20+00.00	CL	1049.16	1036.51	12.65	-
SAS #2	21+16.02	CL	1053.68	1041.90	11.78	-
SAS #3	23+50.00	CL	1057.18	1047.18	10.00	-
SAS #4	25+00.00	CL	1066.73	1056.20	10.53	-
SAS #5	26+60.00	CL	1073.52	1063.50	10.02	-
SAS #6	27+75.19	CL	1074.80	1064.75	10.05	-
SAS #7	30+25.00	LT-11.01	1080.58	1068.80	11.78	-
SAS #8	32+27.59	LT-12.00	1084.44	1072.44	12.00	-
SAS #9A	35+17.86	LT-12.00	1087.46	1075.73	11.73	-
OLD TIMBER PASS (E)						
SAS #10A	131+24.88	RT-5.77	1083.00	1073.46	9.54	-
SLEEPY PINE RIDGE						
SAS #9	10+90.08	CL	1085.29	1072.89	12.40	-
SAS #10	13+00.00	CL	1084.66	1073.82	10.84	[1]
SAS #11	13+38.33	CL	1084.43	1074.08	10.35	[1]
SAS #12	14+06.92	CL	1085.04	1074.46	10.58	-
SUGAR MAPLE LANE						
SAS #13	249+93.67	CL	1088.96	1076.50	12.46	-
SAS #12A	246+50.00	CL	1084.46	1074.98	9.48	-
WATTS ROAD						
SAS #50	318+75.00	CL	1064.30	1052.33	11.97	-
SAS #51	317+00.00	CL	1068.75	1057.00	11.75	-
SAS #52	314+88.00	CL	1077.76	1066.76	11.00	-
SAS #53	313+50.00	CL	1084.05	1072.90	11.15	-
SAS #54	311+97.61	LT-14.00	1090.25	1080.37	9.88	-
SAS #9D	305+00.00	CL	1085.21	1076.12	9.09	-
SAS #9B	308+50.00	CL	1089.55	1077.55	12.00	-
SAS #9C	310+45.00	CL	1091.63	1078.90	12.73	-
NOBLE OAK RUN						
SAS #53A	51+09.80	CL	1077.66	1067.26	10.40	-
SAS #53B	50+25.00	CL	1078.59	1067.70	10.89	-

ADJUST SANITARY SAS

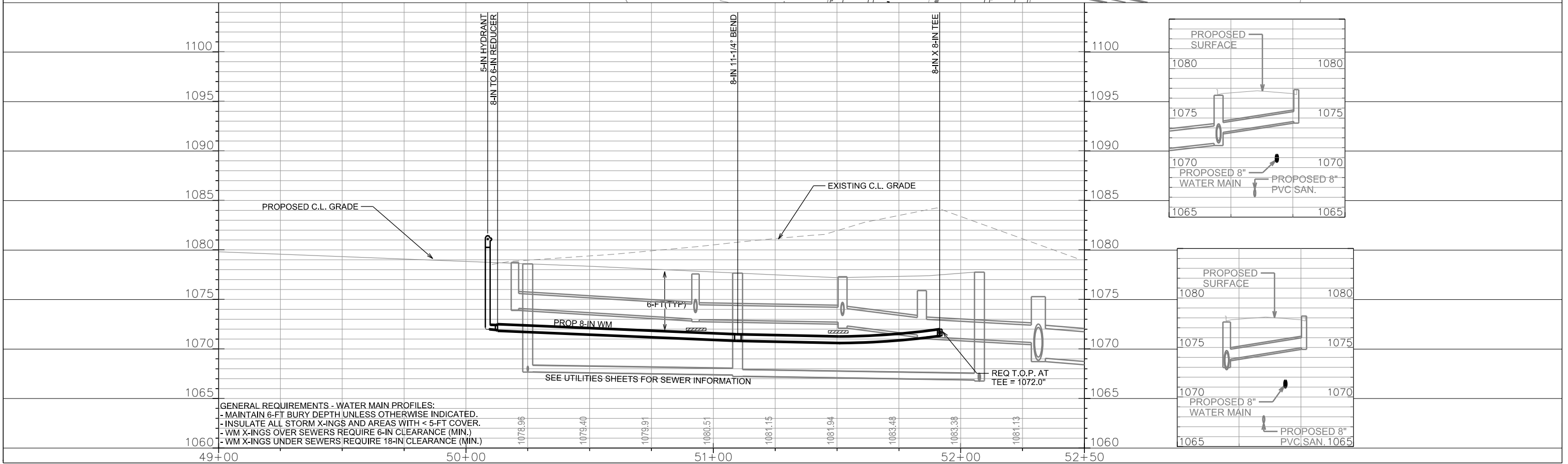
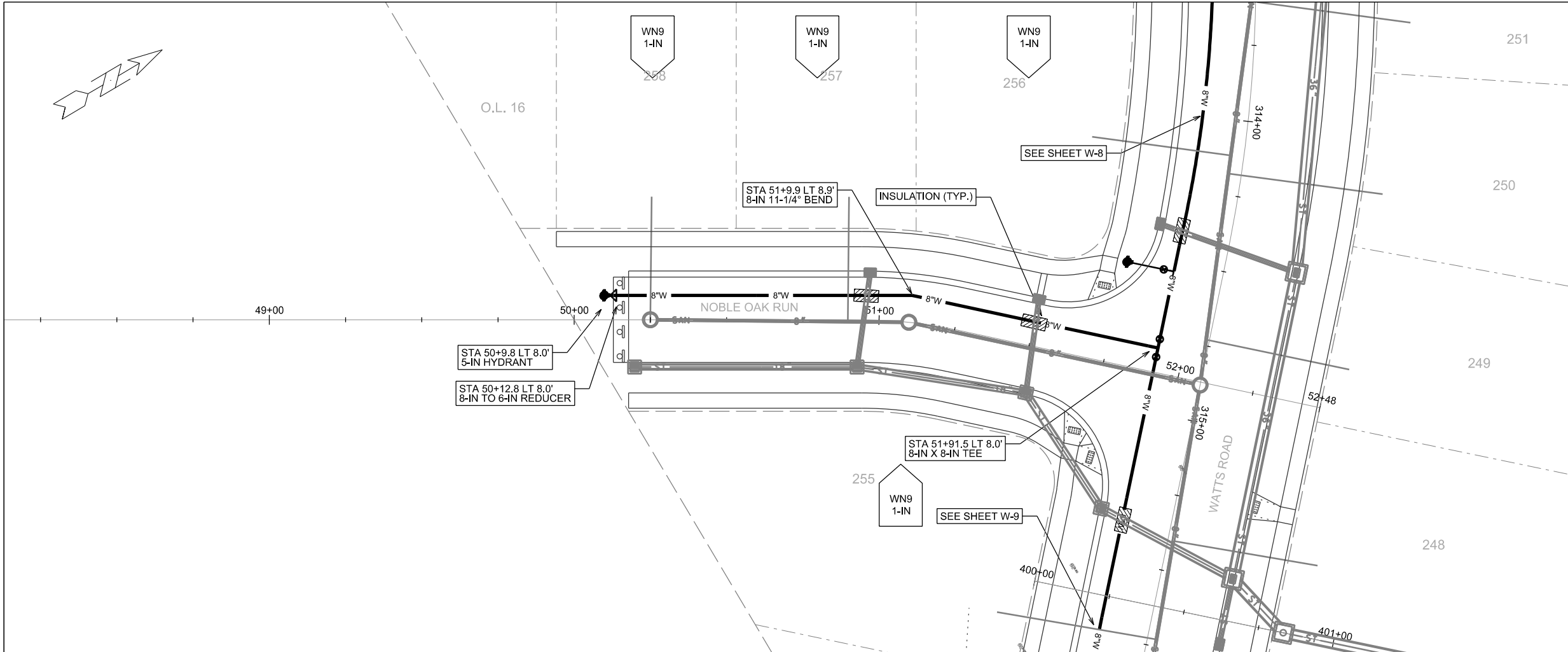
SAS NO.	STATION	LOCATION (OFFSET)	EX. RIM	PROP. RIM	DIFF. (FT)	NOTES
WATTS ROAD						
SAS 1559-010	320+10.47	RT-0.88	1063.69	1063.85	0.16	-

SPECIFIC NOTES

[1] INSTALL INTERNAL CHIMNEY SEAL

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
OLD TIMBER PASS								
SAS 1460-001	SAS #1	1033.42	1036.51	69	4.48%	10"	SDR- 26	-
SAS #1	SAS #2	1036.61	1041.90	116	4.56%	10"	SDR- 26	-
SAS #2	SAS #3	1042.00	1047.18	234	2.21%	8"	SDR- 35	-
SAS #3	SAS #4	1047.28	1056.20	150	5.95%	8"	SDR- 35	-
SAS #4	SAS #5	1056.30	1063.50	160	4.50%	8"	SDR- 35	-
SAS #5	SAS #6	1063.60	1064.75	115	1.00%	8"	SDR- 35	-
SAS #6	SAS #7	1064.85	1068.80	250	1.58%	8"	SDR- 35	-
SAS #7	SAS #8	1068.90	1072.44	202	1.75%	8"	SDR- 26	-
SAS #8	SAS #9A	1072.54	1075.73	290	1.10%	8"	SDR- 26	-
OLD TIMBER PASS (E)								
SAS #9	SAS #10A	1072.99	1073.46	116	0.41%	8"	SDR- 35	-
SLEEPY PINE RIDGE								
SAS #8	SAS #9	1072.54	1072.89	87	0.40%	8"	SDR- 26	-
SAS #9	SAS #10	1072.99	1073.82	210	0.40%	8"	SDR- 35	-
SAS #10	SAS #11	1073.92	1074.08	38	0.42%	8"	SDR- 35	-
SAS #11	SAS #12	1074.18	1074.46	69	0.41%	8"	SDR- 35	-
SUGAR MAPLE LANE								
SAS #12	SAS #13	1074.56	1076.50	246	0.79%	8"	SDR- 35	-
SAS #12	SAS #12A	1074.56	1074.98	98	0.43%	8"	SDR- 35	-
WATTS ROAD								
SAS 1559-010	SAS #50	1050.79	1052.33	135	1.14%	8"	SDR- 26	-
SAS #50	SAS #51	1052.43	1057.00	174	2.63%	8"	SDR- 35	-
SAS #51	SAS #52	1057.10	1066.76	212	4.56%	8"	SDR- 35	-
SAS #52	SAS #53	1066.86	1072.90	138	4.38%	8"	SDR- 35	-
SAS #53	SAS #54	1073.00	1080.37	154	4.79%	8"	SDR- 35	-
SAS #9A	SAS #9D	1075.83	1076.12	72	0.40%	8"	SDR- 35	-
SAS #9A	SAS #9B	1075.83	1077.55	278	0.62%	8"	SDR- 35	-
SAS #9B	SAS #9C	1077.65	1078.90	195	0.64%	8"	SDR- 35	-
NOBLE OAK RUN								
SAS #52	SAS #53A	1066.86	1067.26	98	0.41%	8"	SDR- 35	-
SAS #53A	SAS #53B	1067.36	1067.70	85	0.40%	8"	SDR- 35	-



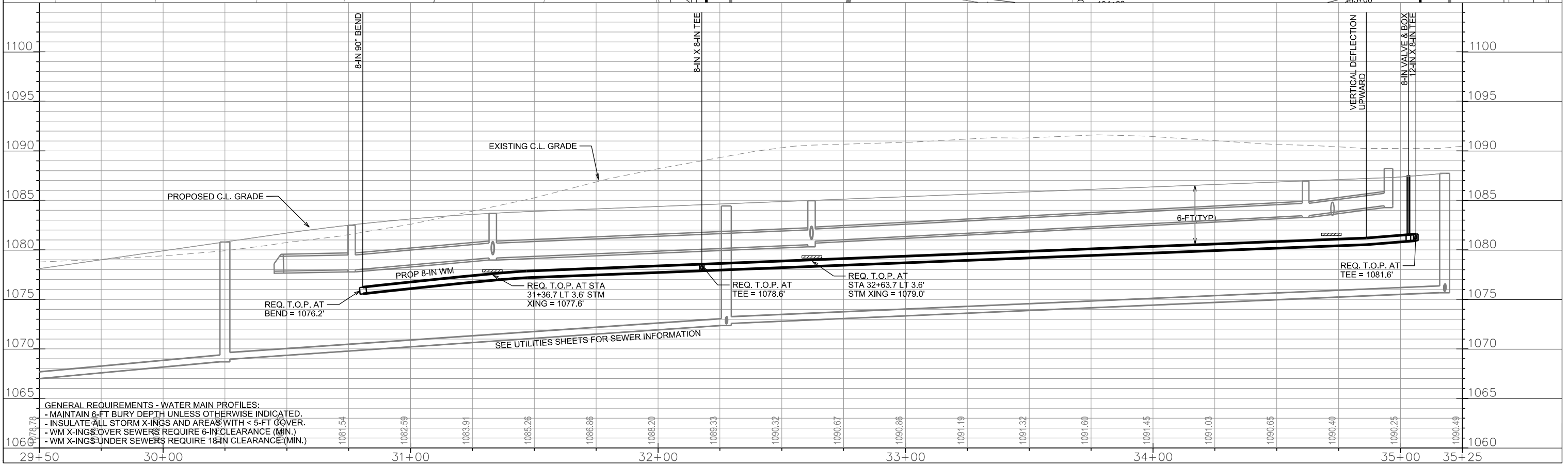
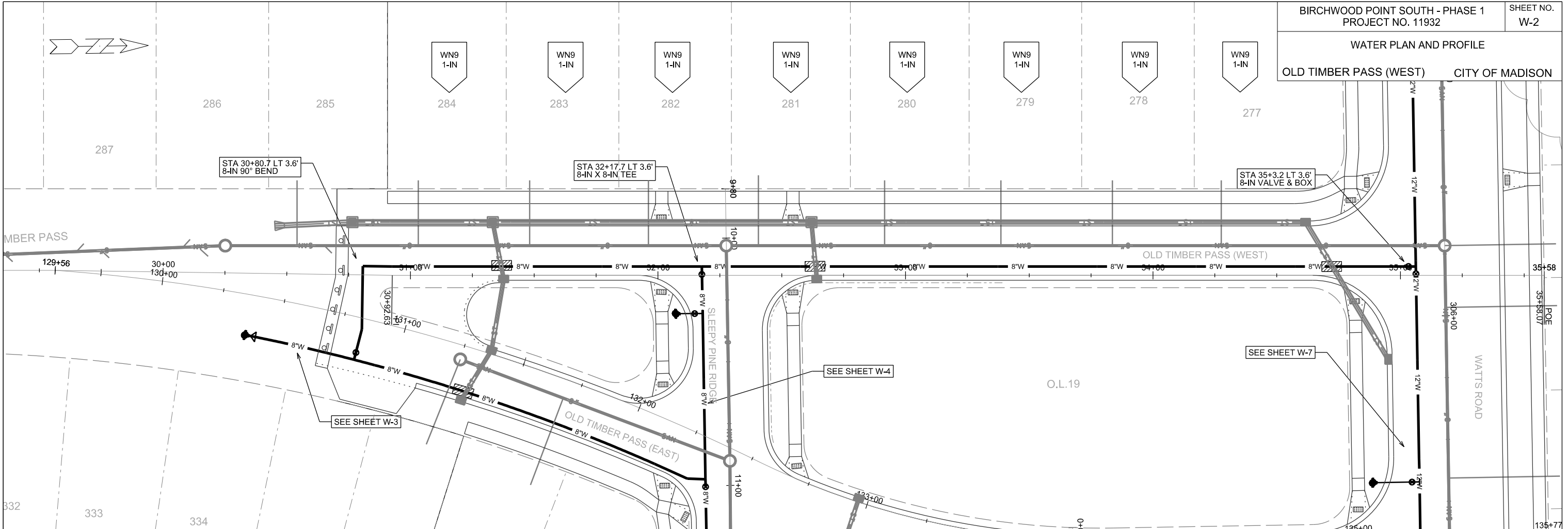
GENERAL REQUIREMENTS - WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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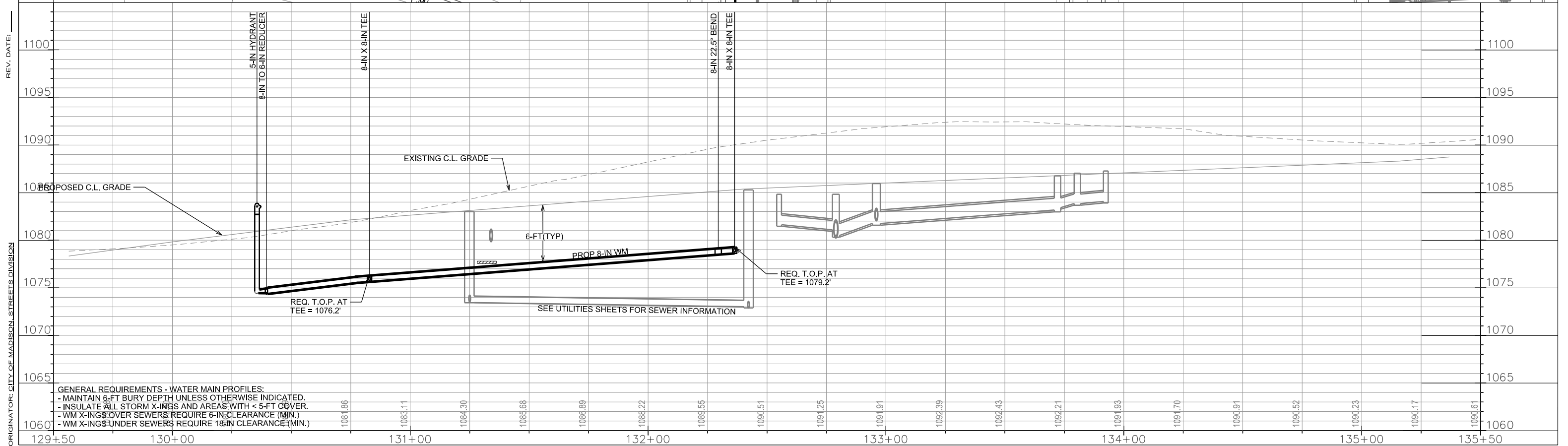
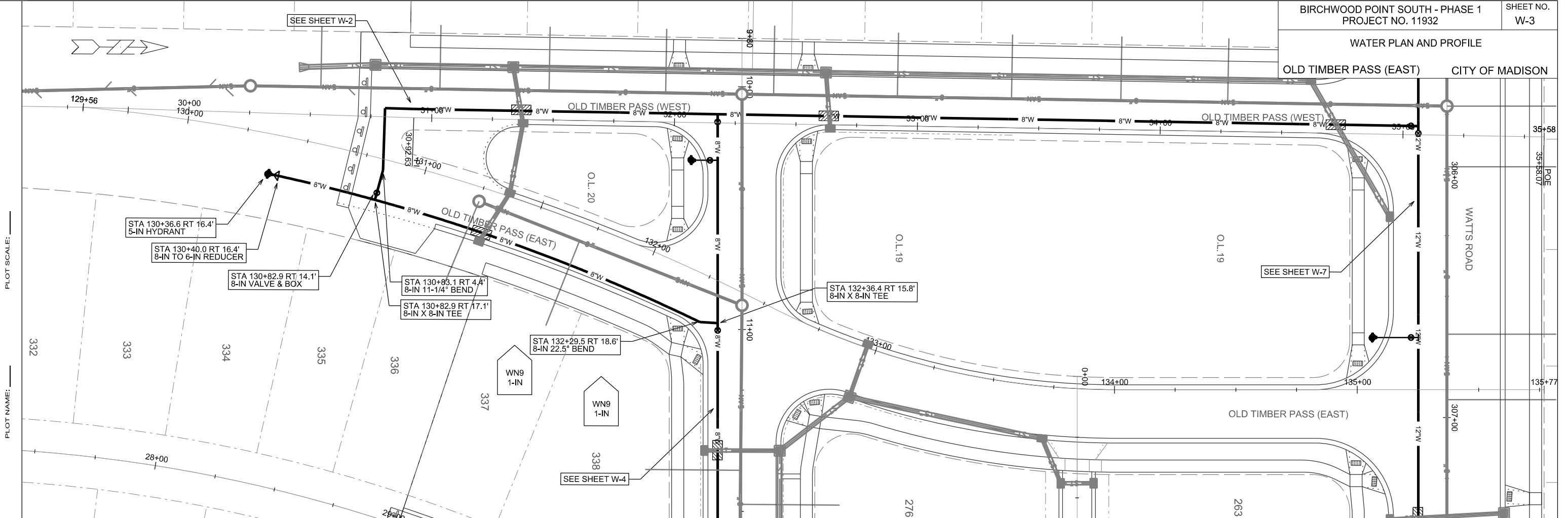
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

OLD TIMBER PASS (EAST) CITY OF MADISON

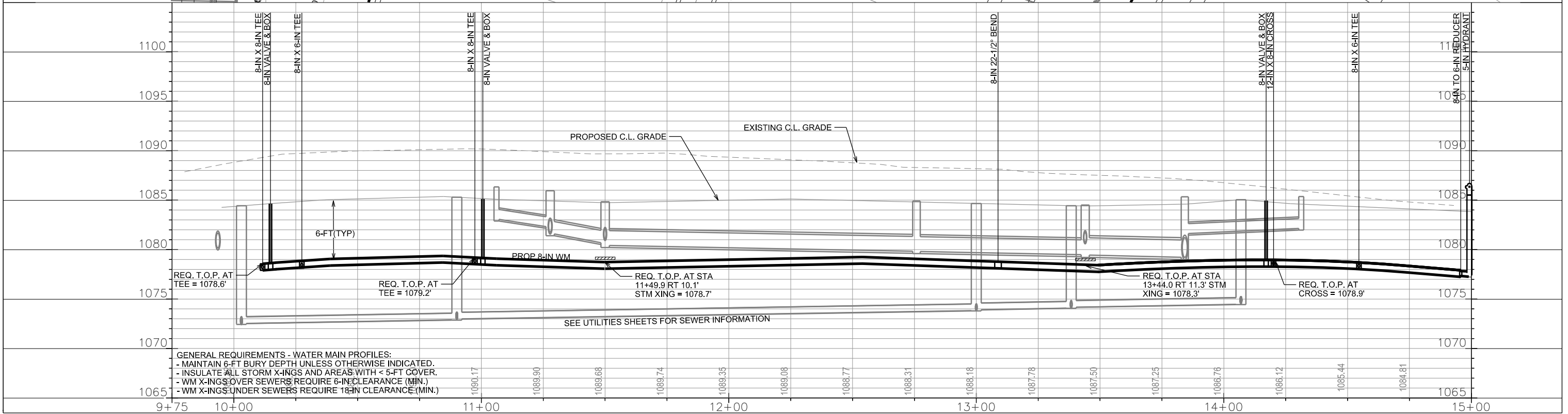
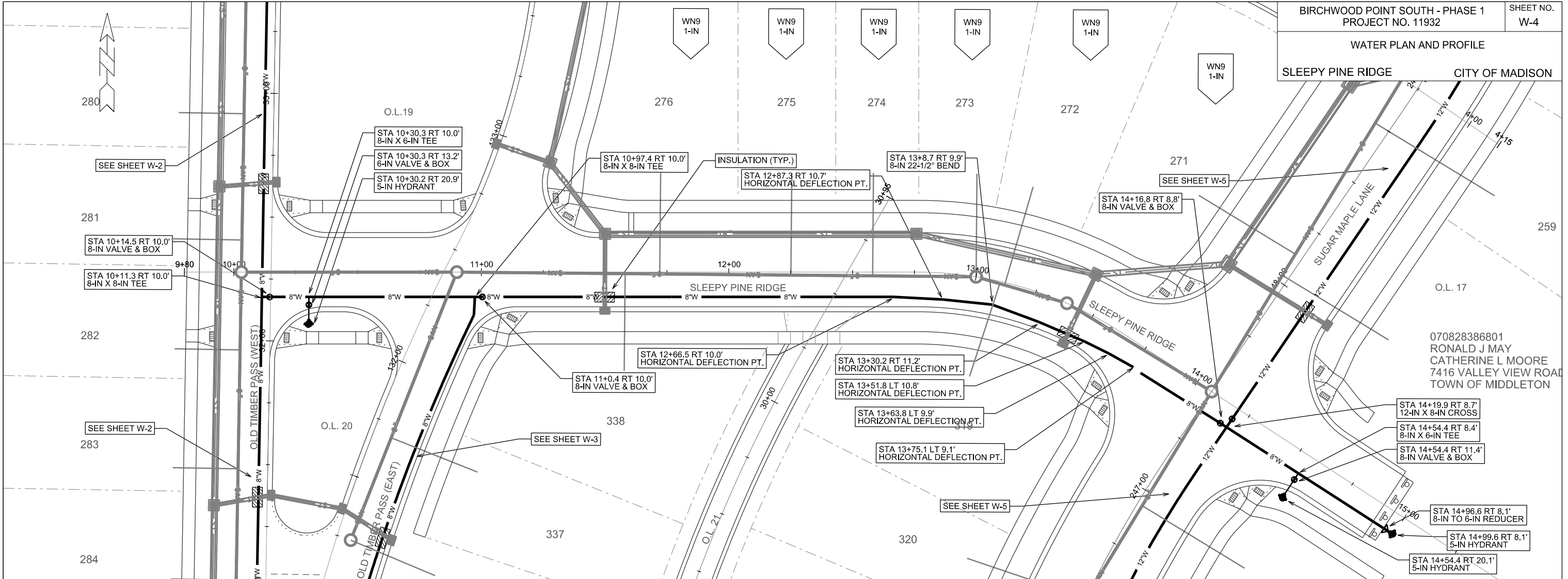


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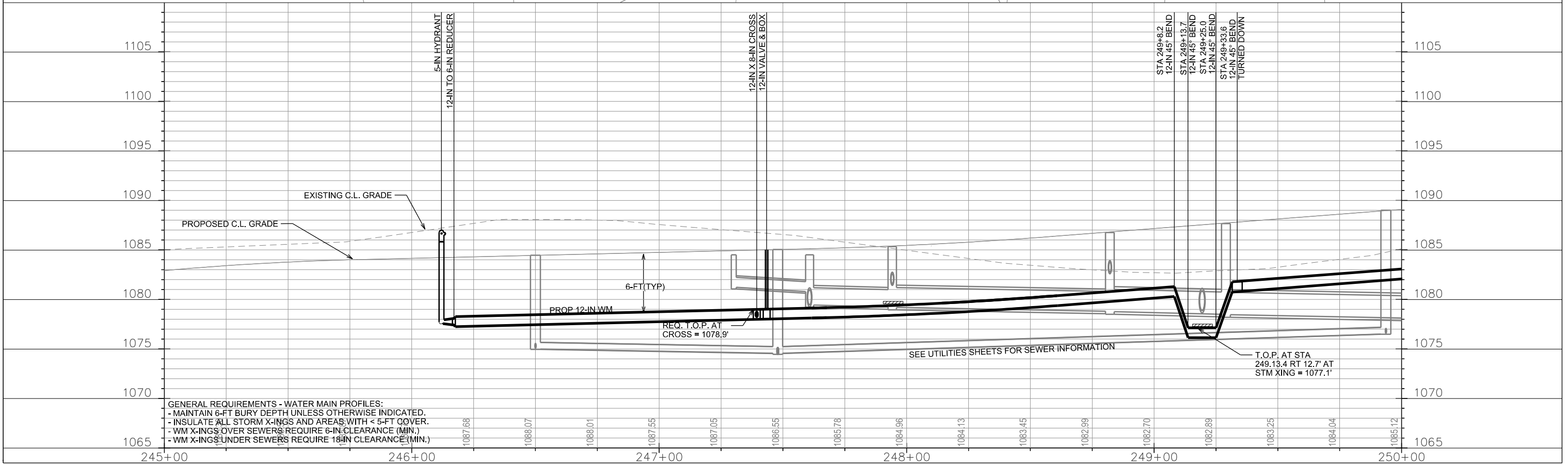
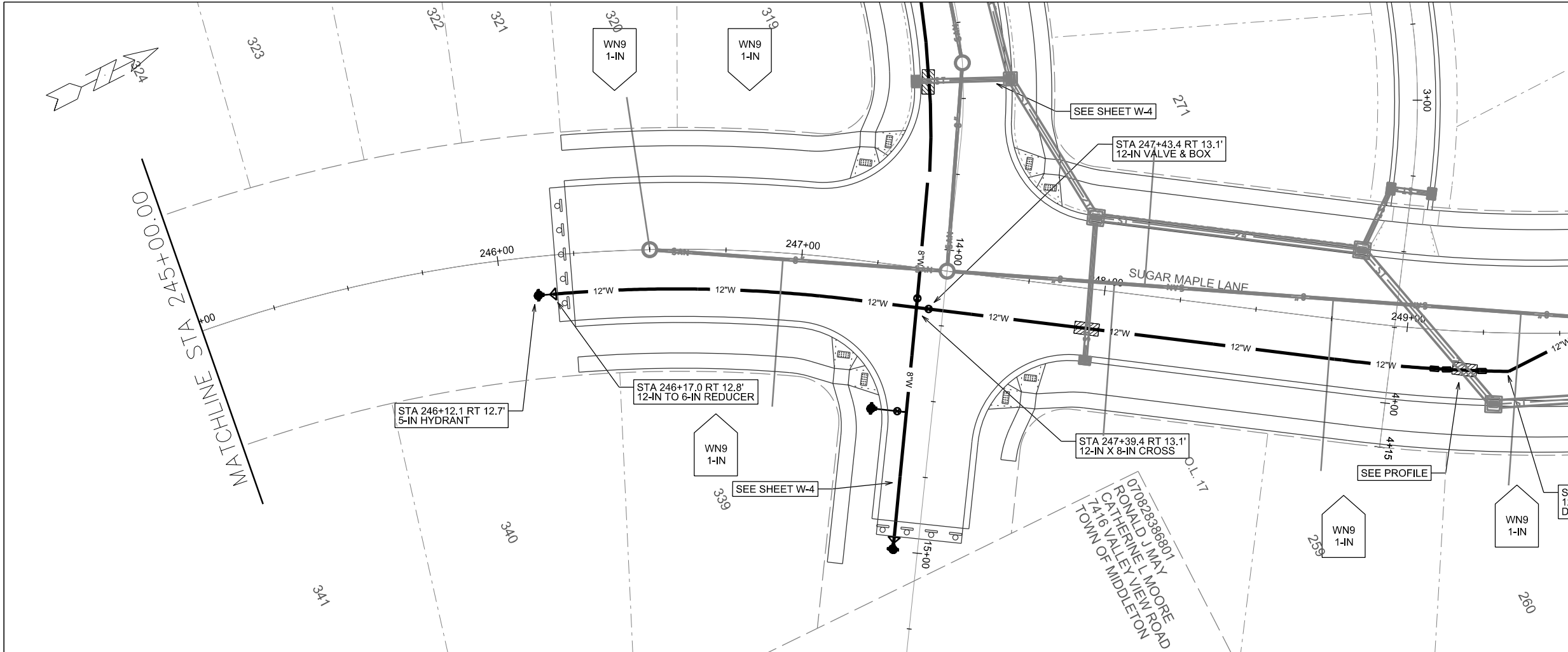
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

SLEEPY PINE RIDGE CITY OF MADISON



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

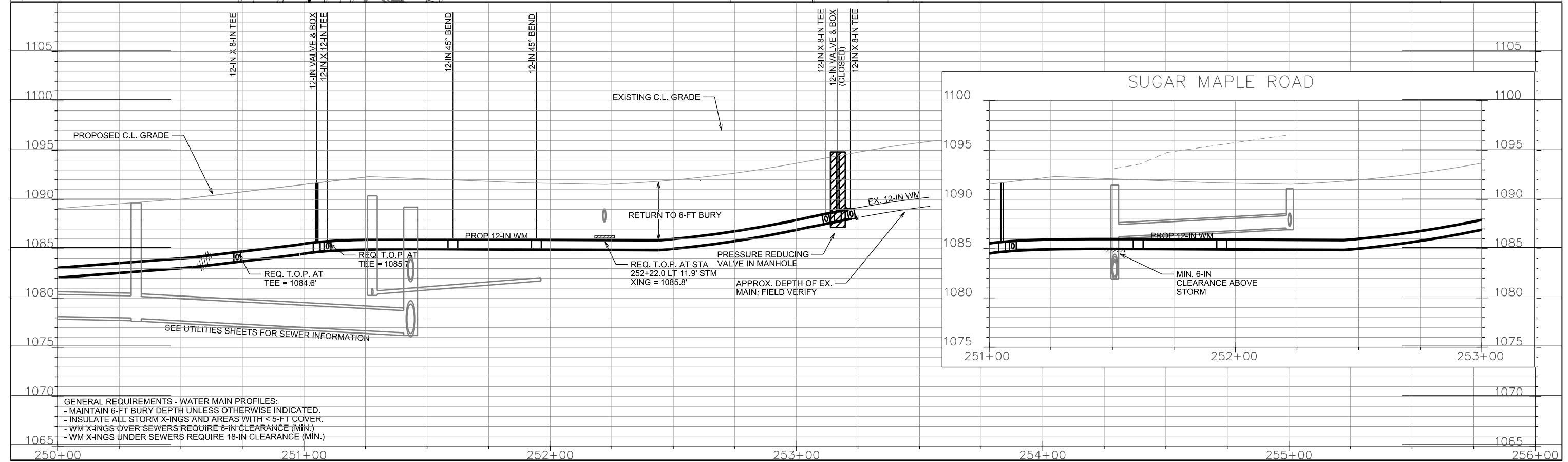
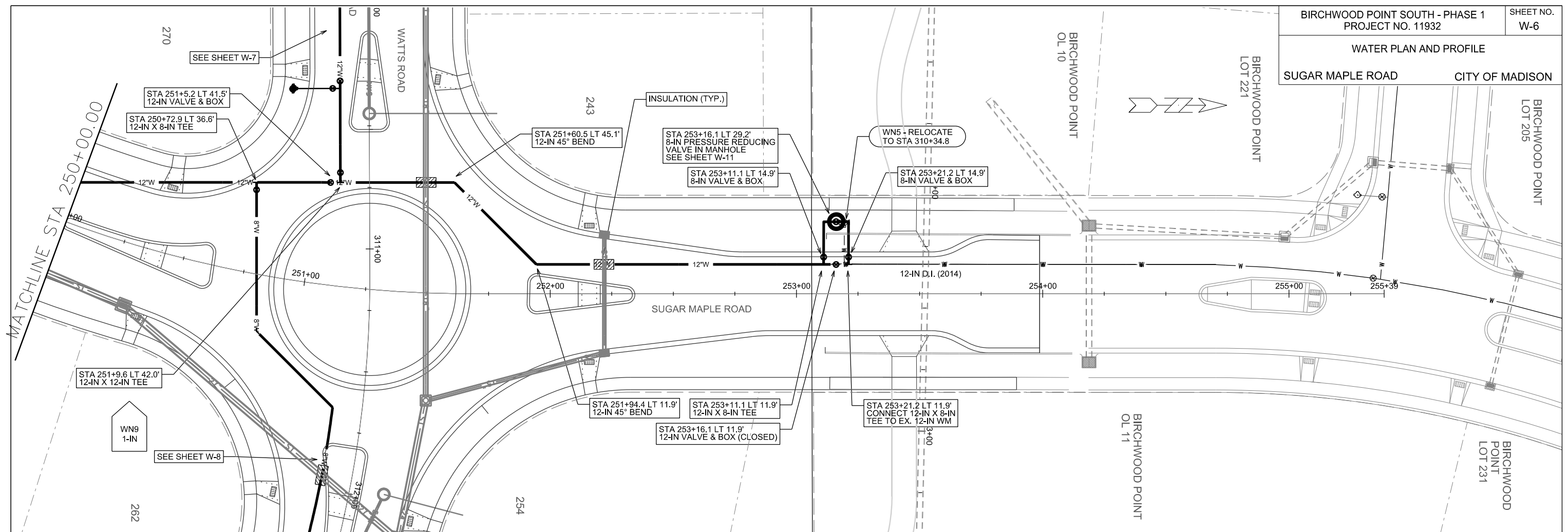


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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



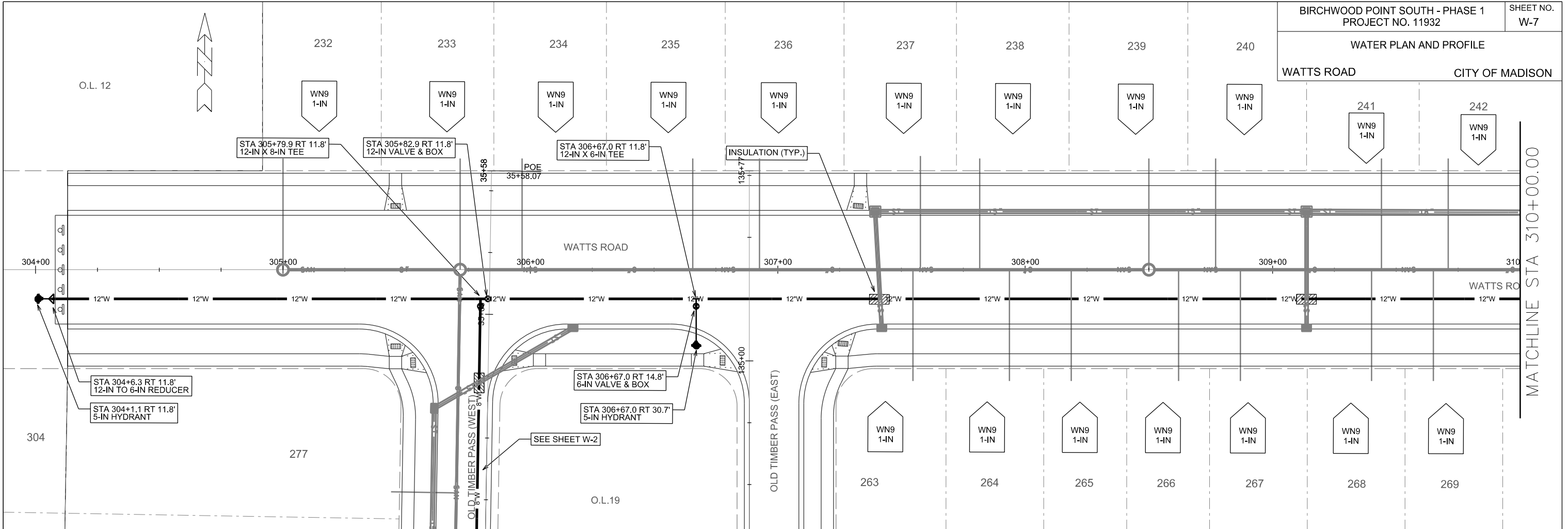
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PLOT SCALE:

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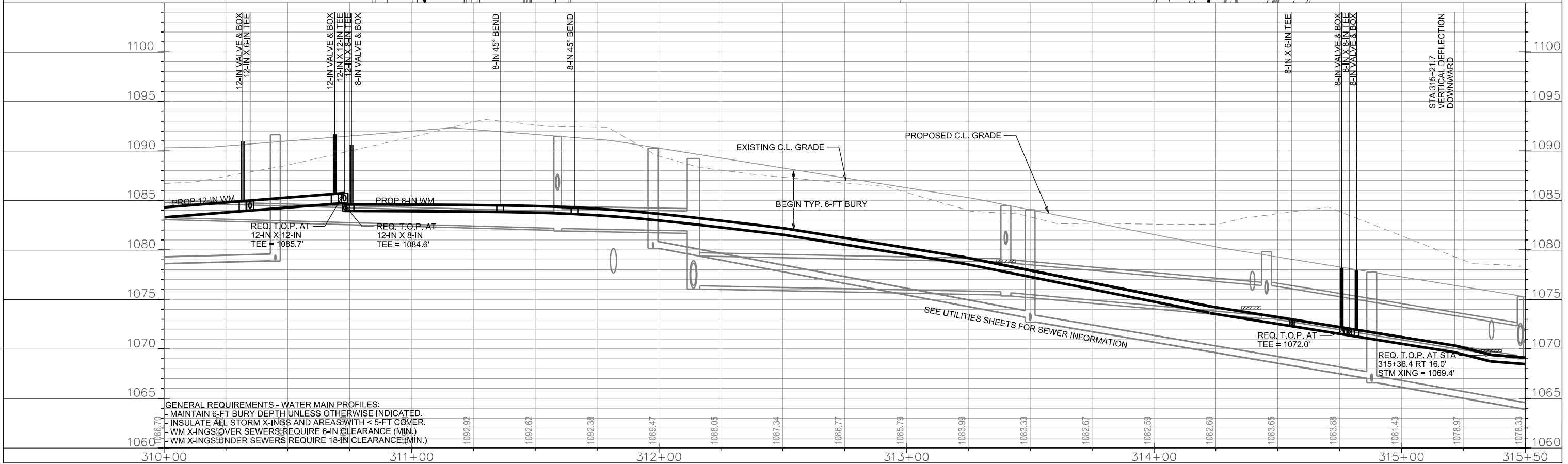
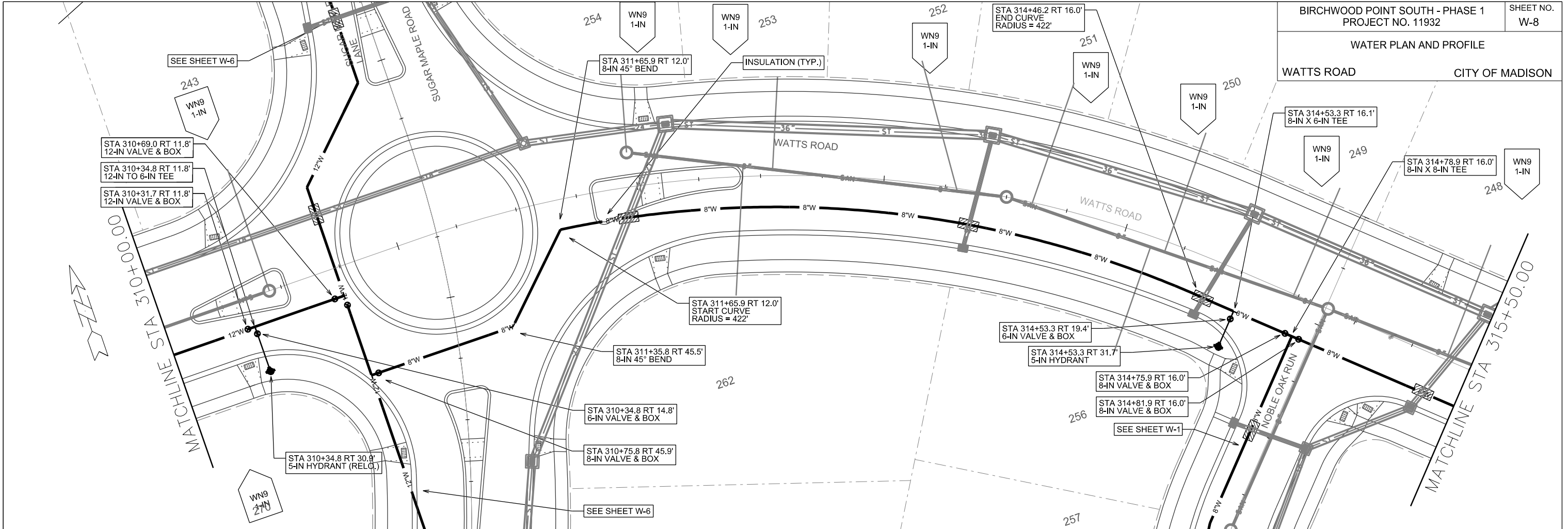
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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PLOT SCALE: _____
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

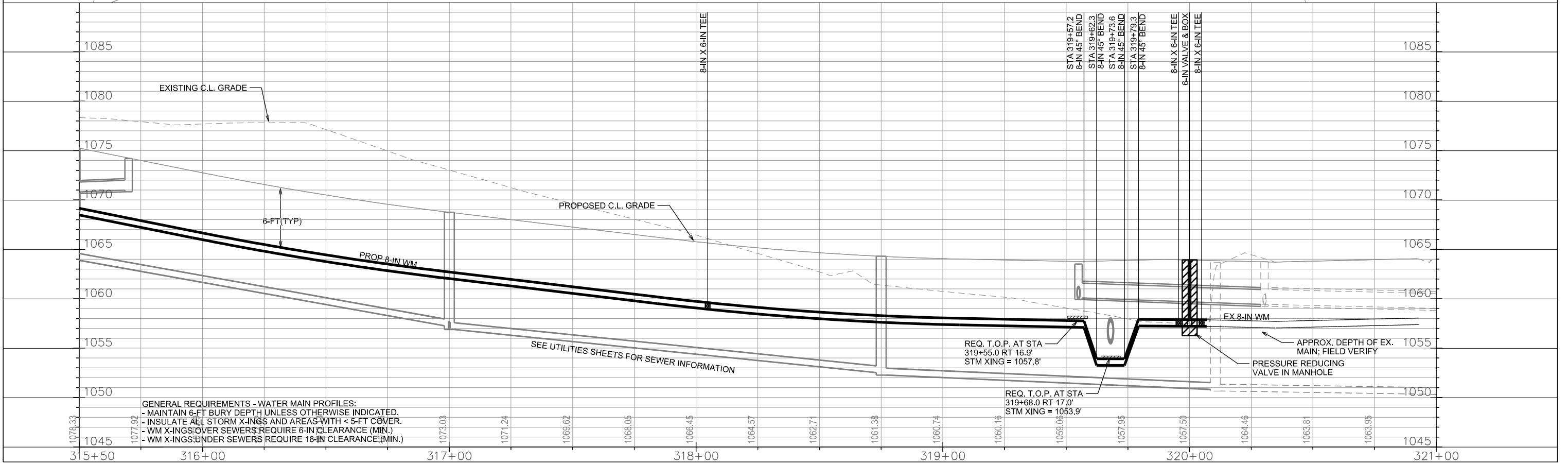
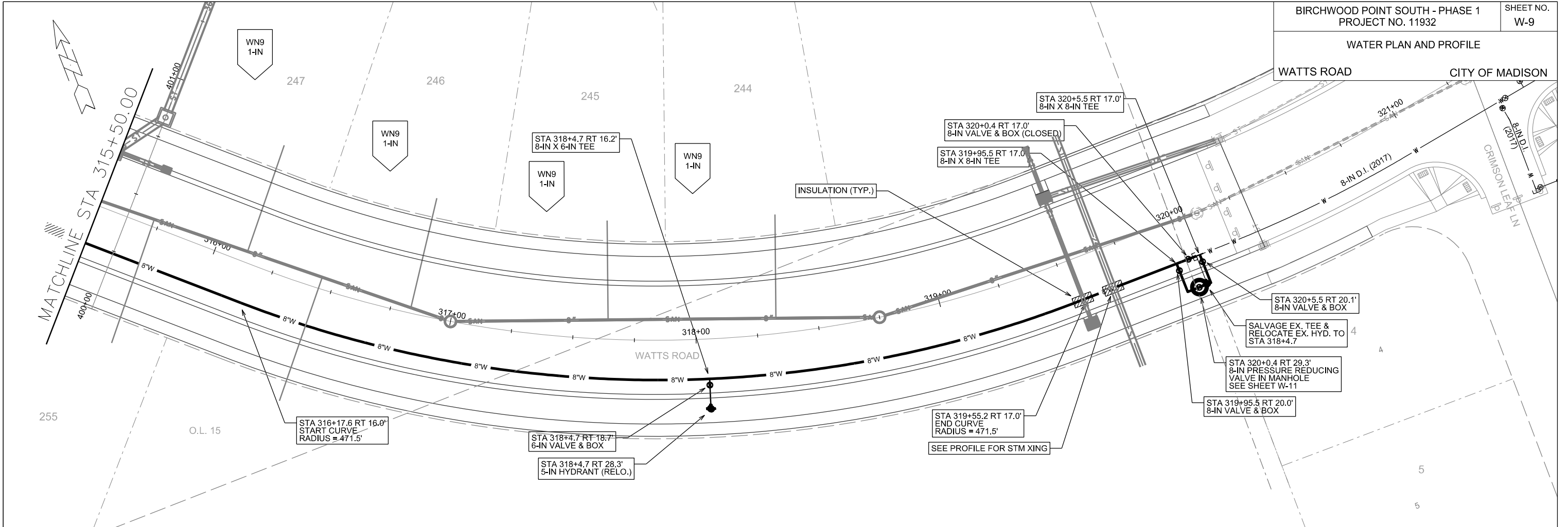


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PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

WATTS ROAD CITY OF MADISON



GENERAL REQUIREMENTS - WATER MAIN PROFILES:
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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

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

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

100-FT - 6-IN PIPE	2 - 8-IN 22-1/2° BEND
1990-FT - 8-IN PIPE	1 - 12-IN 22-1/2° BEND
1360-FT - 12-IN PIPE	
5 - 6-IN VALVE & BOX	2 - 8-IN 45° BEND
14 - 8-IN VALVE & BOX	2 - 12-IN 45° BEND
3 - 12-IN VALVE & BOX	2 - 8-IN 90° BEND
2 - 8-IN PRESSURE REDUCING VALVE (PRV)	3 - 8-IN TO 6-IN REDUCER
*SEE DETAIL SHEET	2 - 12-IN TO 6-IN REDUCER
4 - 8-IN X 6-IN TEE	10 - 5-IN HYDRANT
7 - 8-IN X 8-IN TEE	
1 - 12-IN X 6-IN TEE	
4 - 12-IN X 8-IN TEE	120-FT - 2-IN STYROFOAM INSULATION
1 - 12-IN X 12-IN TEE	2420-FT - POLY WRAP
1 - 12-IN X 8-IN CROSS	1-IN TO 2-IN COPPER (AS REQ'D)
3 - 8-IN 11-1/4° BEND	

ESTIMATE OF MATERIALS SALVAGED:

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

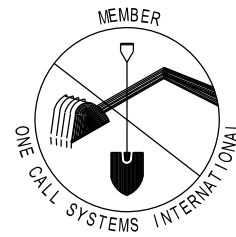
ESTIMATE OF MATERIALS REUSED:

** 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.

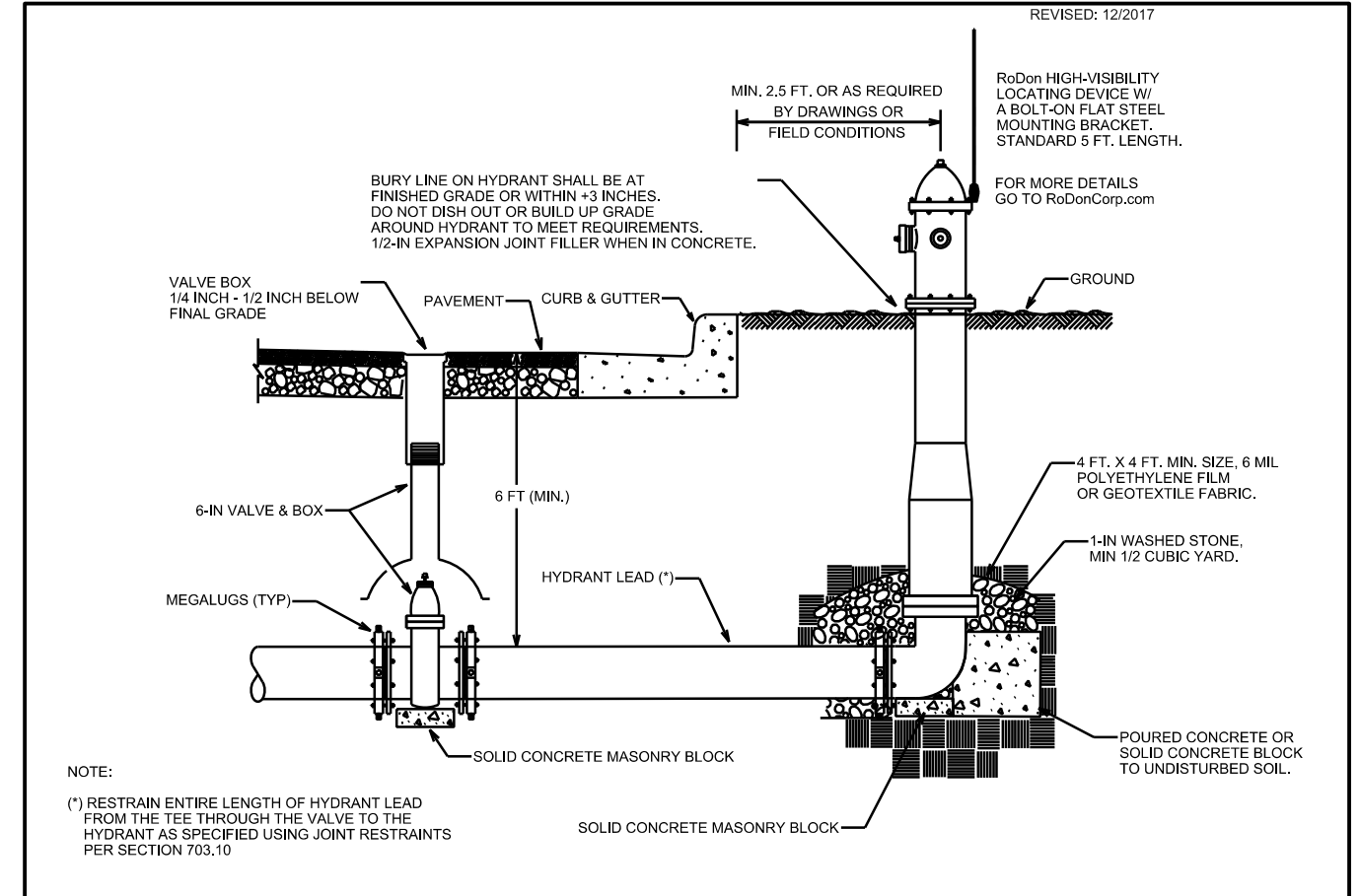


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2017



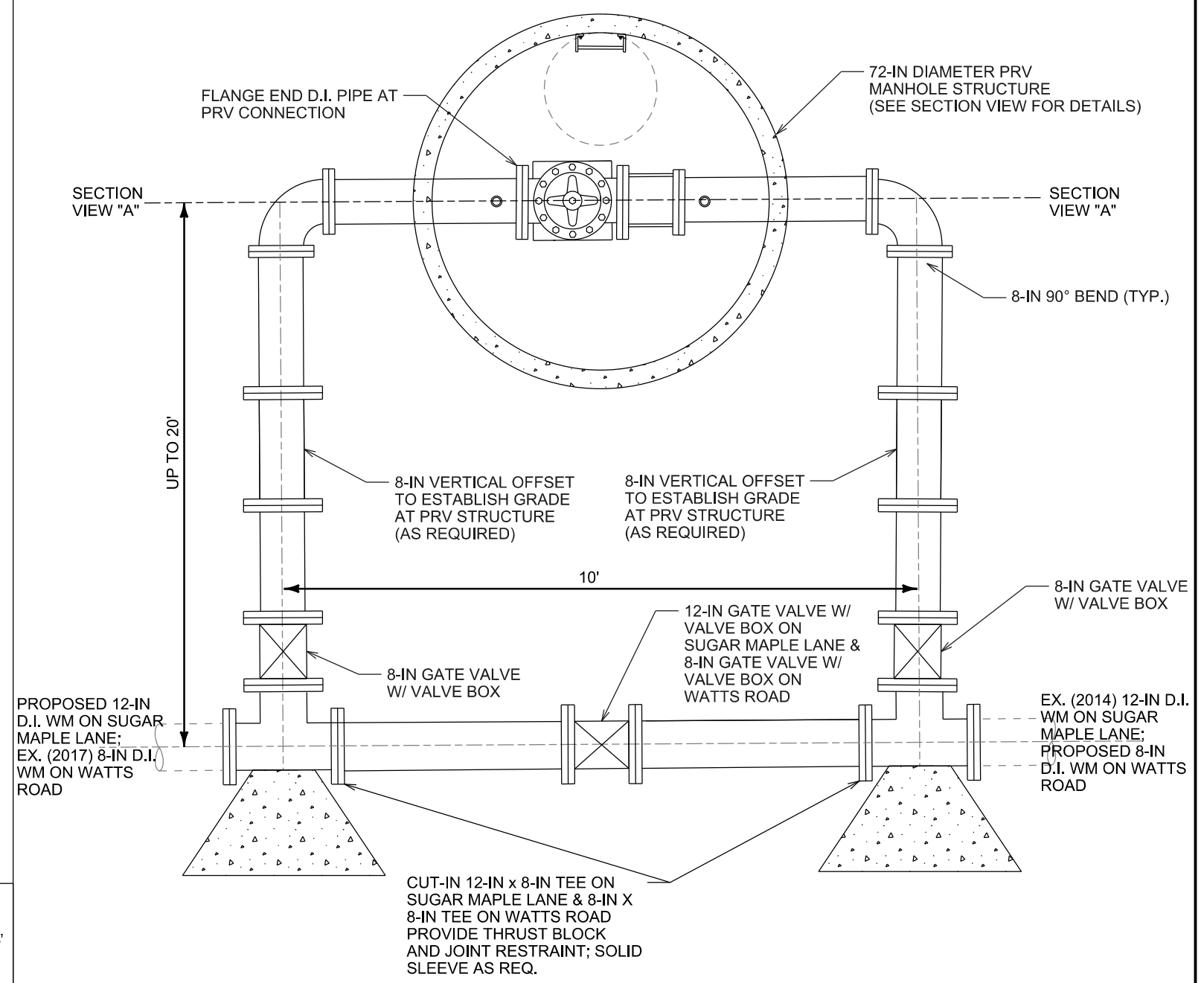
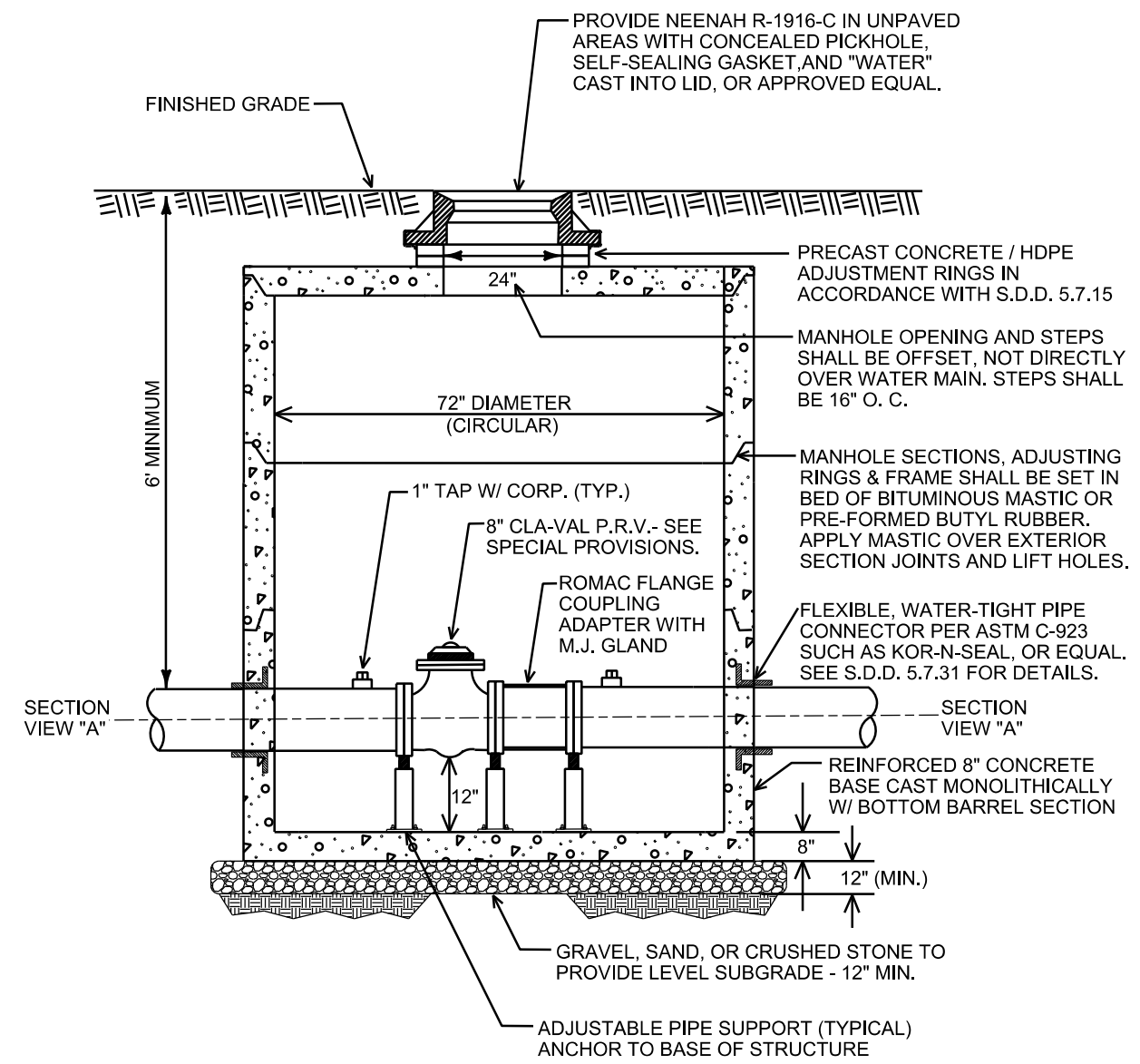
CITY OF MADISON
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

PRESSURE REDUCING VALVE MANHOLE (SECTION A-A - NTS)



PRESSURE REDUCING VALVE MANHOLE / STANDARD PIPING CONFIGURATION (PLAN VIEW - NTS)

NOTES:

THIS CONTRACT REQUIRES THE INSTALLATION OF TWO PRESSURE REDUCING VALVE ("PRV") CONFIGURATIONS. ALL PIPE, FITTINGS, AND APPURENANCES SHALL BE NEWLY FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. SUBMIT MANHOLE AND PRV SPECIFICATIONS TO MWU FOR APPROVAL BEFORE ORDER.

COORDINATE THE ORDER, DELIVERY, INSTALLATION, CALIBRATION, AND FINAL INSPECTION OF EACH PRV WITH THE MWU ENGINEER AND THE LOCAL PRODUCT REPRESENTATIVE:
MIKE BARREAU
DORNER COMPANY
262-932-2100 EXT. 120
MIKE@DORNERCO.COM

EACH PRV SHALL BE:
BRAND: CLA-VAL
SIZE: 8-INCHES
MODEL: 690-01 ("REDUCED PORT")

ALLOW FOR SUFFICIENT LAG TIME FOR ENGINEER REVIEW, ORDER, DELIVERY, AND INSTALLATION OF ALL MATERIALS.

INSTALL EACH PRV AND PIPING CONFIGURATION PER THE MANUFACTURER SPECIFICATIONS AND THE DETAIL DRAWINGS INCLUDED IN THIS CONTRACT'S PLAN SET. THE DESIGNATED AREAS ON THE PLANS ARE APPROXIMATIONS BASED ON THE ASSUMED EXISTING WATER MAIN LOCATIONS AND GROUND SLOPES; LOCATE THE EXISTING WATER MAIN PRIOR TO AGREEMENT WITH THE ENGINEER OF THE EXACT LOCATION OF ANY PRV, MANHOLE, AND PIPING CONFIGURATIONS. MANHOLE SHALL BE WATER TIGHT.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION