

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 25, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 4/10/14  
City Engineer Date

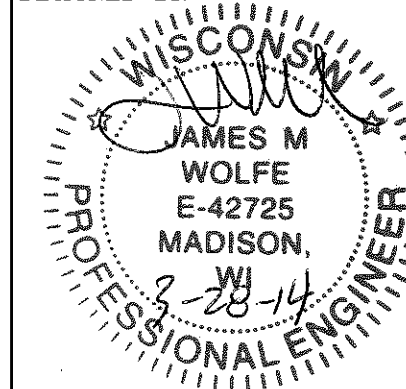
INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
DI-D3	STREET PLAN & PROFILE: SUGAR MAPLE LANE
P1-P3	STREET PLAN & PROFILE: <del>PANTHER RIDGE</del> SHADY BIRCH TRAIL BIRCHWOOD POINT PHASE 1
P4	STREET PLAN & PROFILE: SILICON PRAIRIE PARKWAY
P5	STREET PLAN & PROFILE: ARBOR MIST PASS
P6	UTILITY PLAN & PROFILE
U1-U9	SEWER SCHEDULES
U10-U11	POND PLAN
U12-U18	WATER PLAN & PROFILES
W1-W6	WATER IMPACT PLAN & MATERIALS
W7	

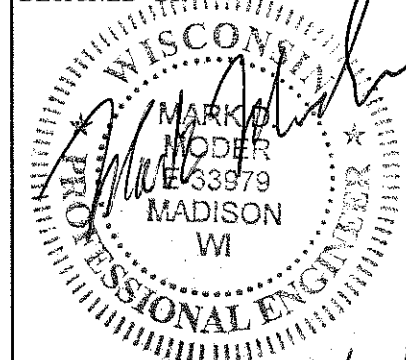
Rev. John Sapp 06-11-14

CITY PROJECT NO. 53B2369  
CITY CONTRACT NO. 2369

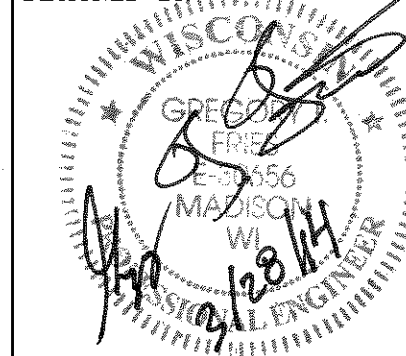
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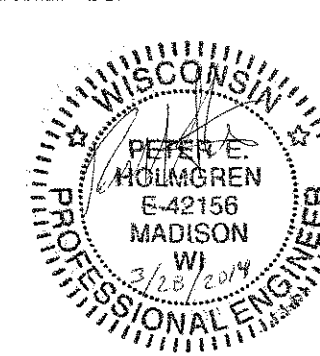
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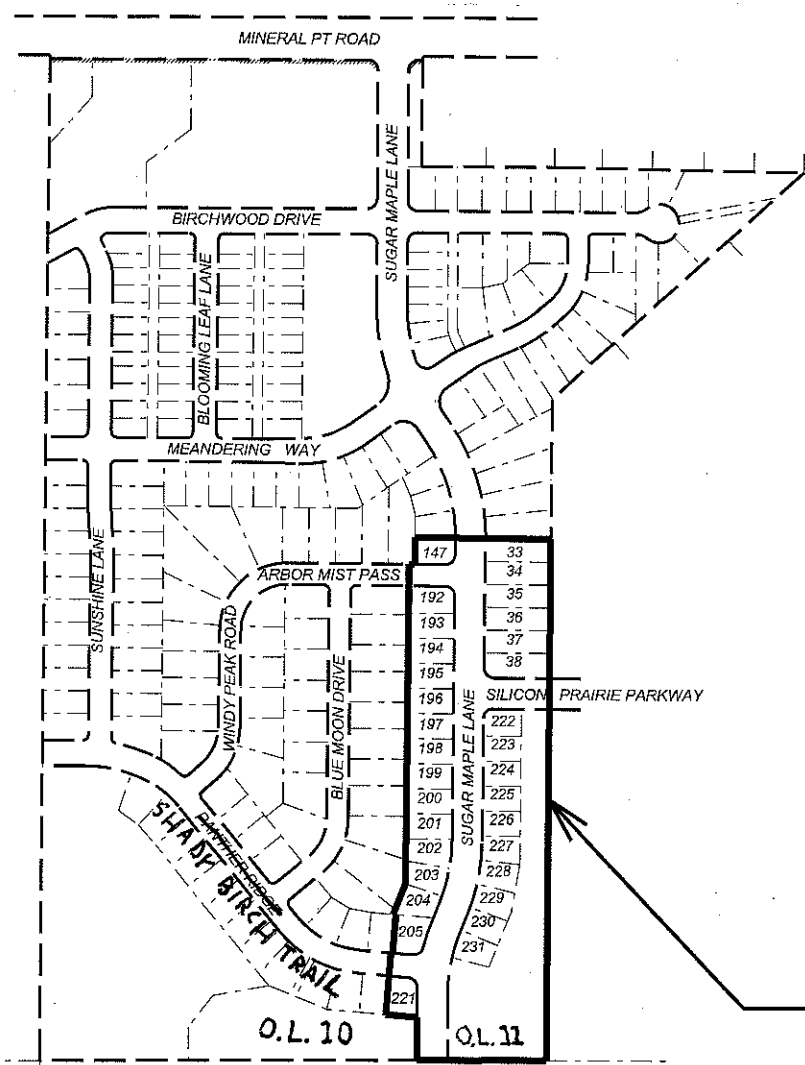
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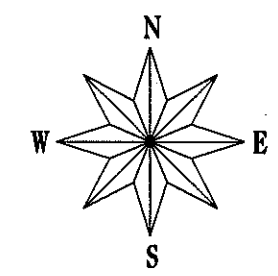
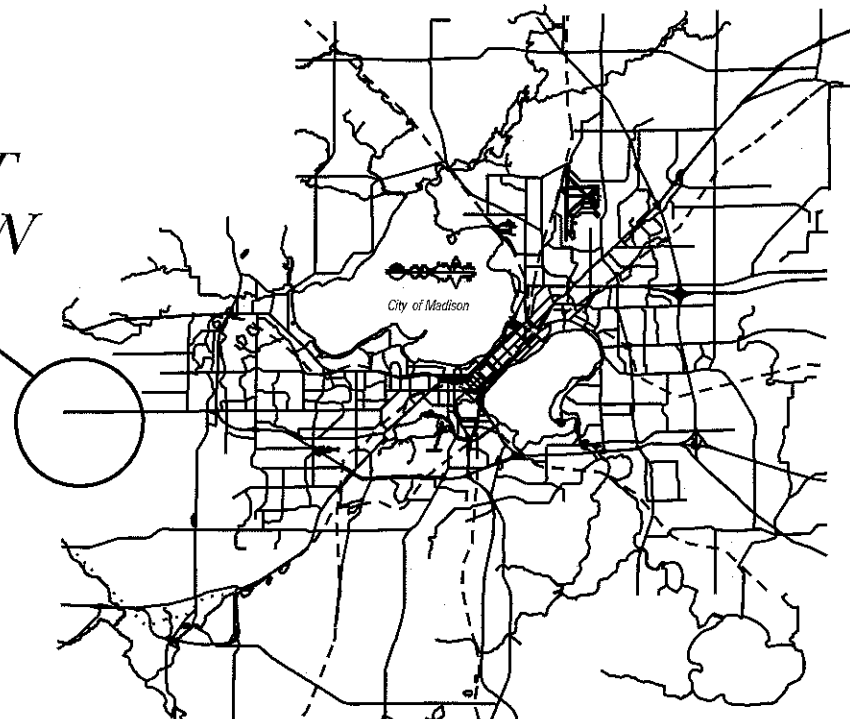
WATER DESIGNED BY:



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



PROJECT LOCATION



PHASE LIMIT

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, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

PAVEMENT ALONG SUGAR MAPLE LANE AND SILICON PRAIRIE PARKWAY IS TO BE TYPE C PAVEMENT.

PAVEMENT ALONG SHADY BIRCH TRAIL AND ARBOR MIST WAY IS TO BE TYPE A PAVEMENT.

ALL ISLANDS SHALL HAVE TYPE "E" CURB & GUTTER PER S.D.D. 3.08 (EXCEPT WHERE SPECIFIED DIFFERENTLY ON DRAWING) AND MOUNTABLE NOSES PER S.D.D. 3.13. ALL OTHER CURB & GUTTER SHALL BE TYPE "A" PER S.D.D. 3.06 UNLESS OTHERWISE NOTED.

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.

PAVEMENT CROSS SLOPES SHALL BE 2% AND TERRACES SHALL SLOPE AT A 4% GRADE TOWARD THE GUTTER.

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 2%. 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 0.4% 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 S.D.D. 3.05

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: \_\_\_\_\_

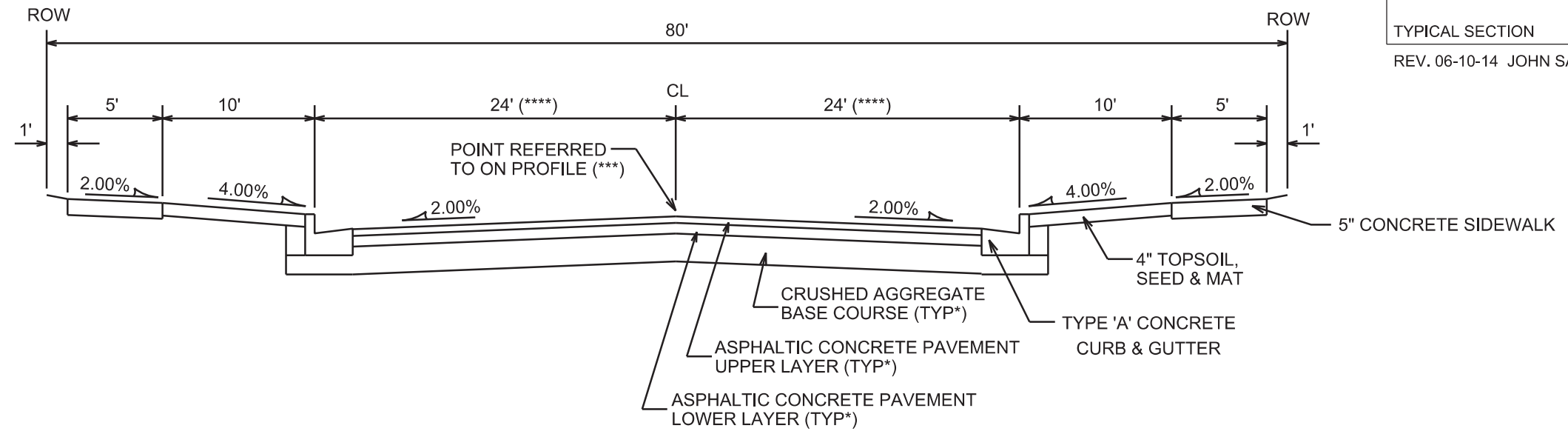
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

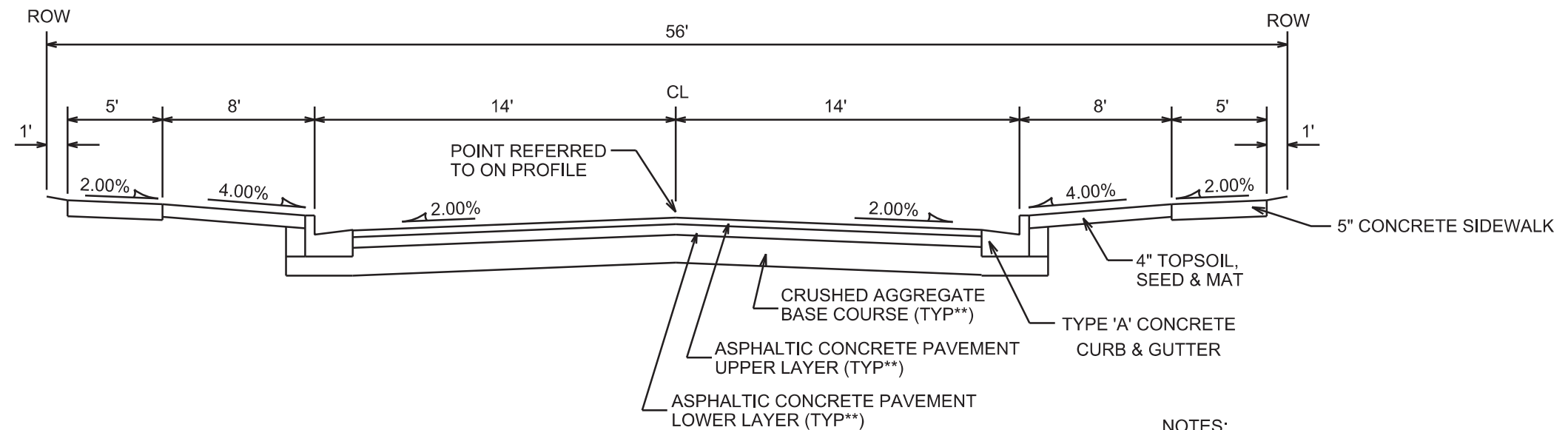
DETAIL

TYPICAL SECTION CITY OF MADISON  
REV. 06-10-14 JOHN SAPP



**TYPICAL SECTION**

SUGAR MAPLE LANE  
STA 50+05 TO STA 63+67  
NOT TO SCALE



**TYPICAL SECTION**

SHADY BIRCH TRAIL  
STA 64+28 TO STA 65+44  
NOT TO SCALE

NOTES:

- \* SUGAR MAPLE LANE TO BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN (SEE †)
- \*\* SHADY BIRCH TRAIL TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN (SEE †)
- \*\*\* POINT REFERRED TO ON PROFILE IS THE EXTENDED CENTERLINE FOR LOCATIONS WITH ISLANDS AS SHOWN ON PLANS.
- \*\*\*\* WIDTH VARIES AT INTERSECTIONS. SEE PLANS FOR BUMPOUT AND ISLAND LAYOUT.

† CITY OF MADISON MINIMUM PAVEMENT DESIGN

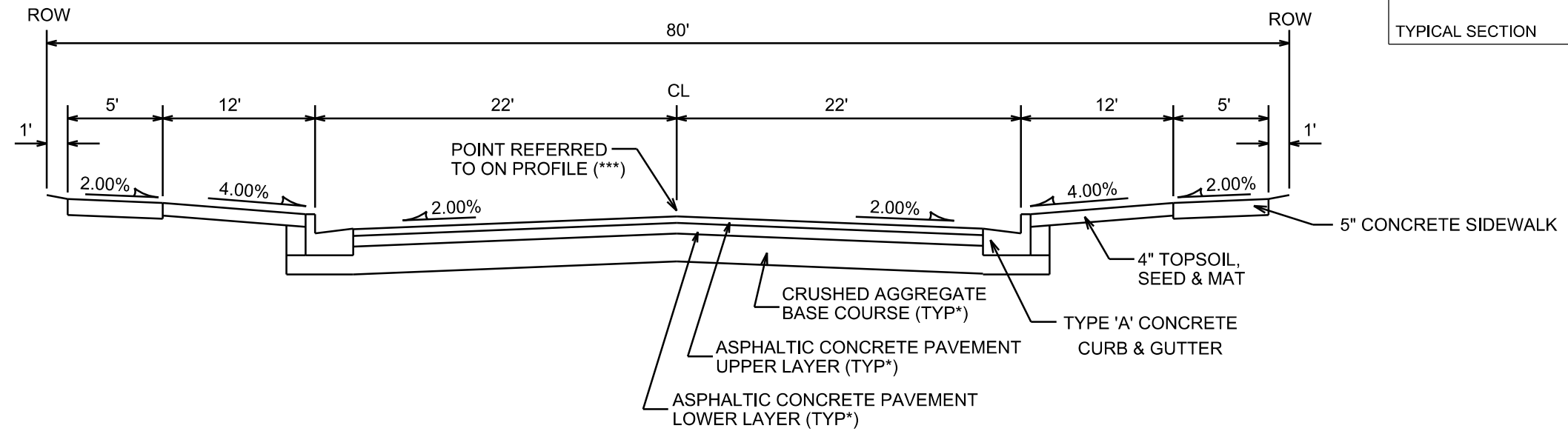
TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	LOWER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.50"	E-1	2"
C	6"	4"	E-3	3.50"	E-3	2"

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

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

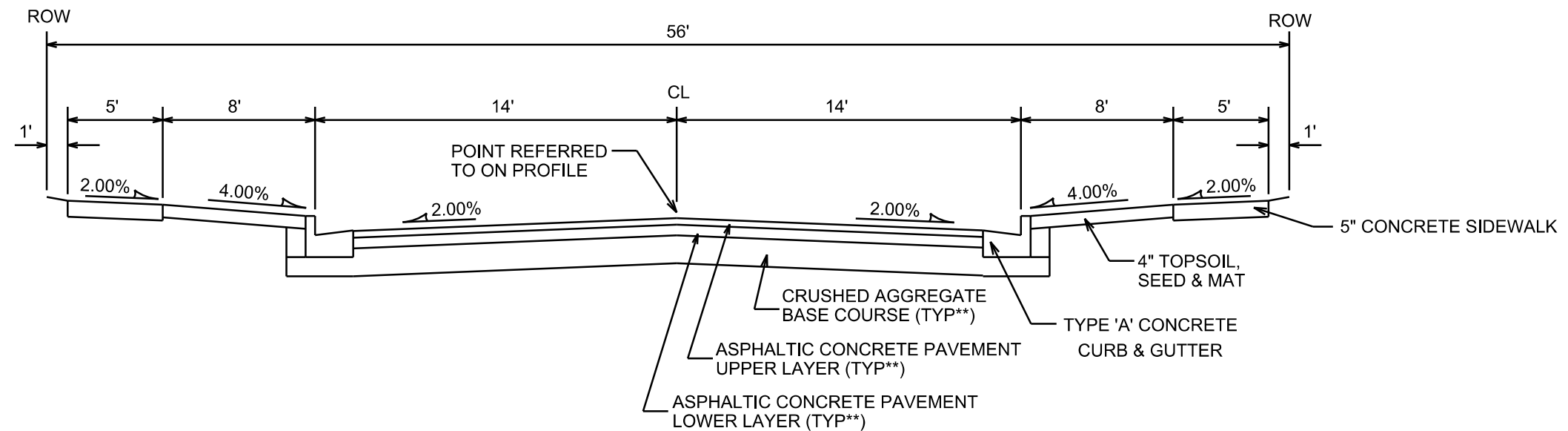
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**TYPICAL SECTION**

SILICON PRAIRIE PARKWAY  
STA 10+00 TO STA 12+66  
NOT TO SCALE



**TYPICAL SECTION**

ARBOR MIST PASS  
STA 20+19 TO STA 21+75  
NOT TO SCALE

\*\*\* CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	LOWER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.50"	E-1	2"
C	6"	4"	E-3	3.50"	E-3	2"

NOTES:

\* SILICON PRAIRIE PARKWAY TO BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN (SEE †)

\*\* ARBOR MIST PASS TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN (SEE †)

\*\*\* POINT REFERRED TO ON PROFILE IS THE EXTENDED CENTERLINE FOR LOCATIONS WITH ISLANDS AS SHOWN ON PLANS.

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

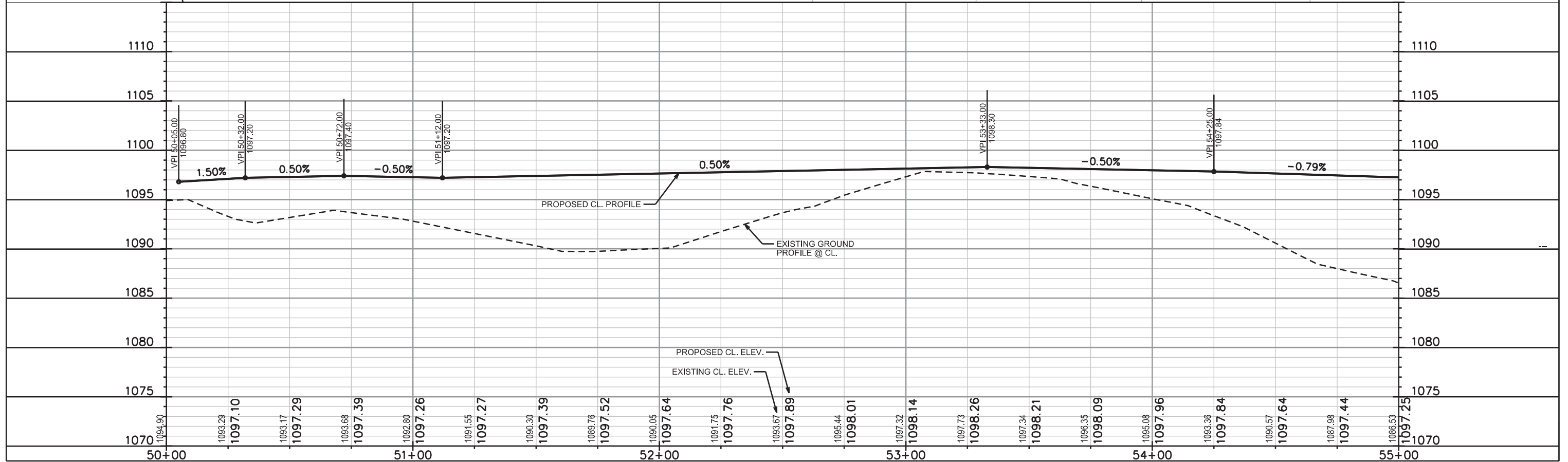
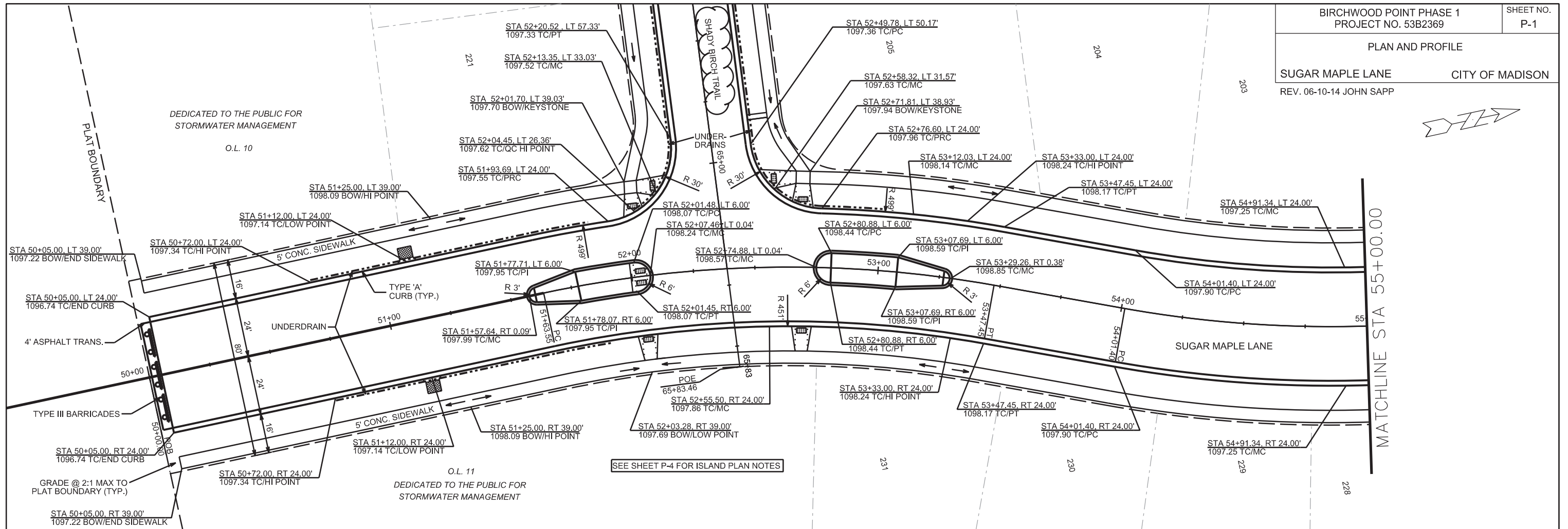
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REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

SUGAR MAPLE LANE CITY OF MADISON  
REV. 06-10-14 JOHN SAPP



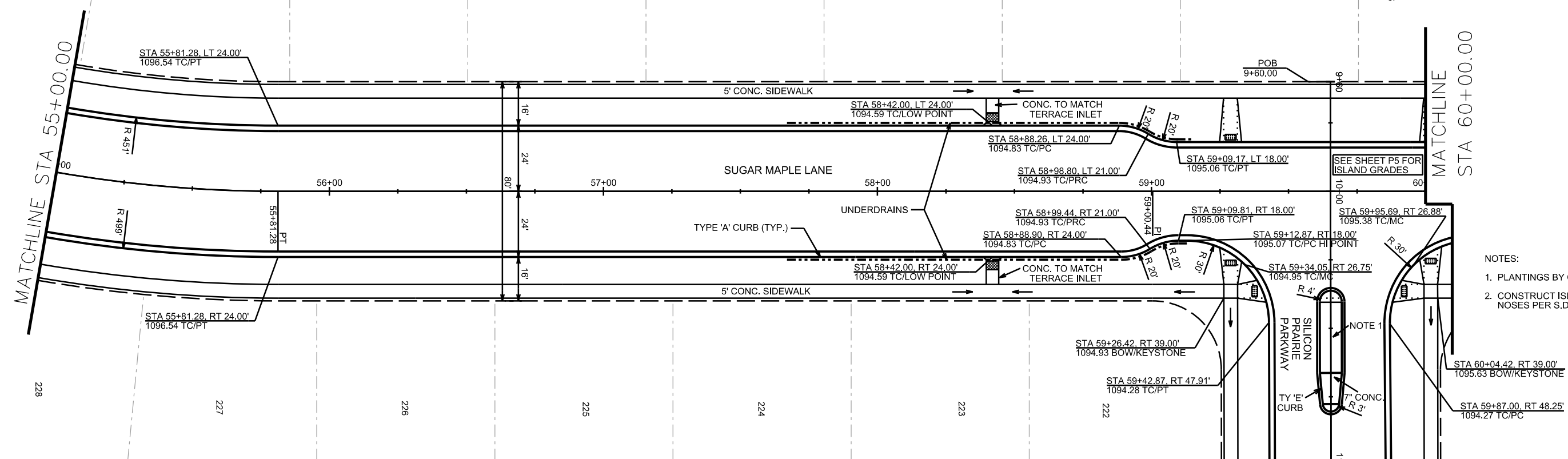
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PLOT NAME:

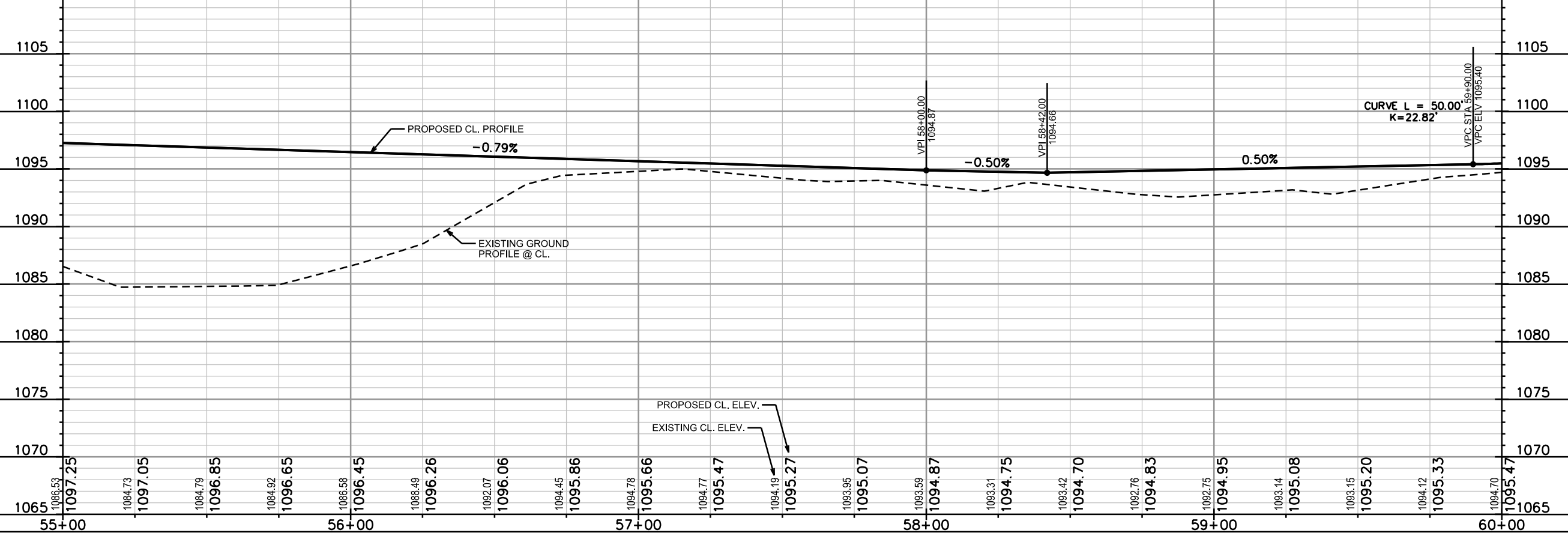
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
SUGAR MAPLE LANE CITY OF MADISON



- NOTES:
1. PLANTINGS BY OTHERS.
  2. CONSTRUCT ISLAND AND MEDIAN NOSES PER S.D.D. 3.13



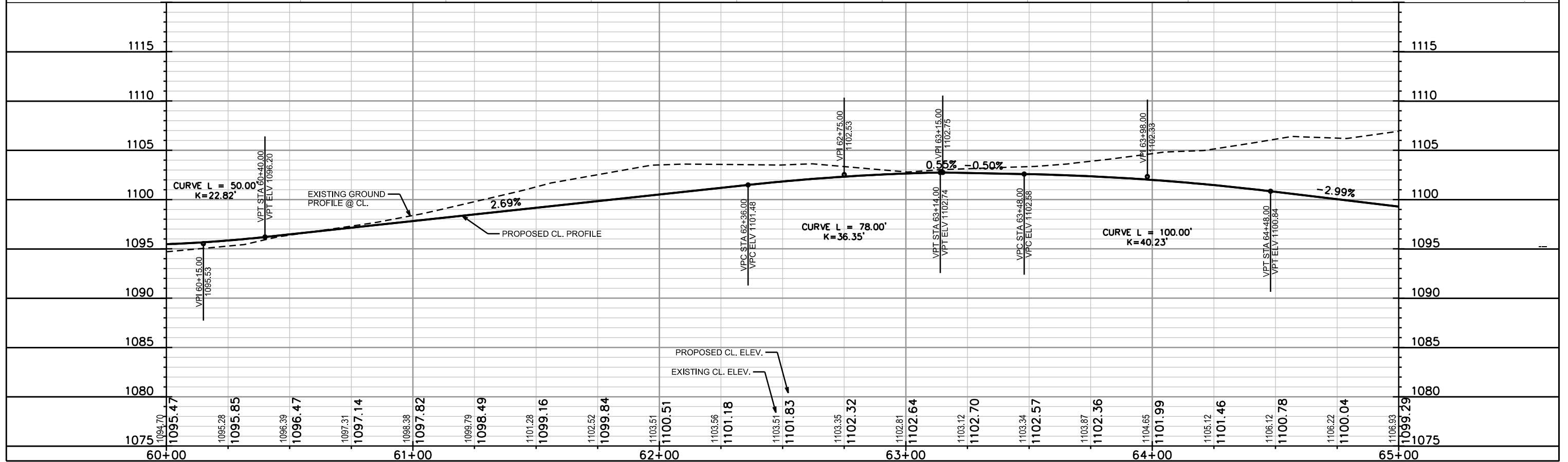
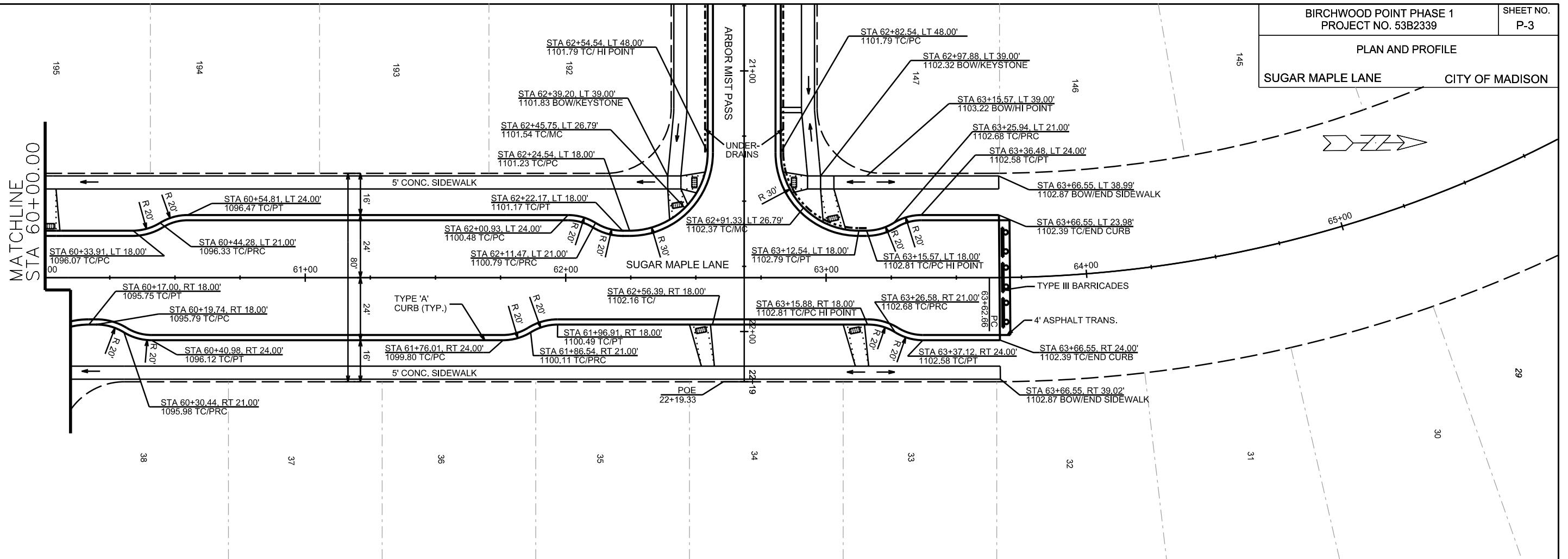
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PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
SUGAR MAPLE LANE CITY OF MADISON

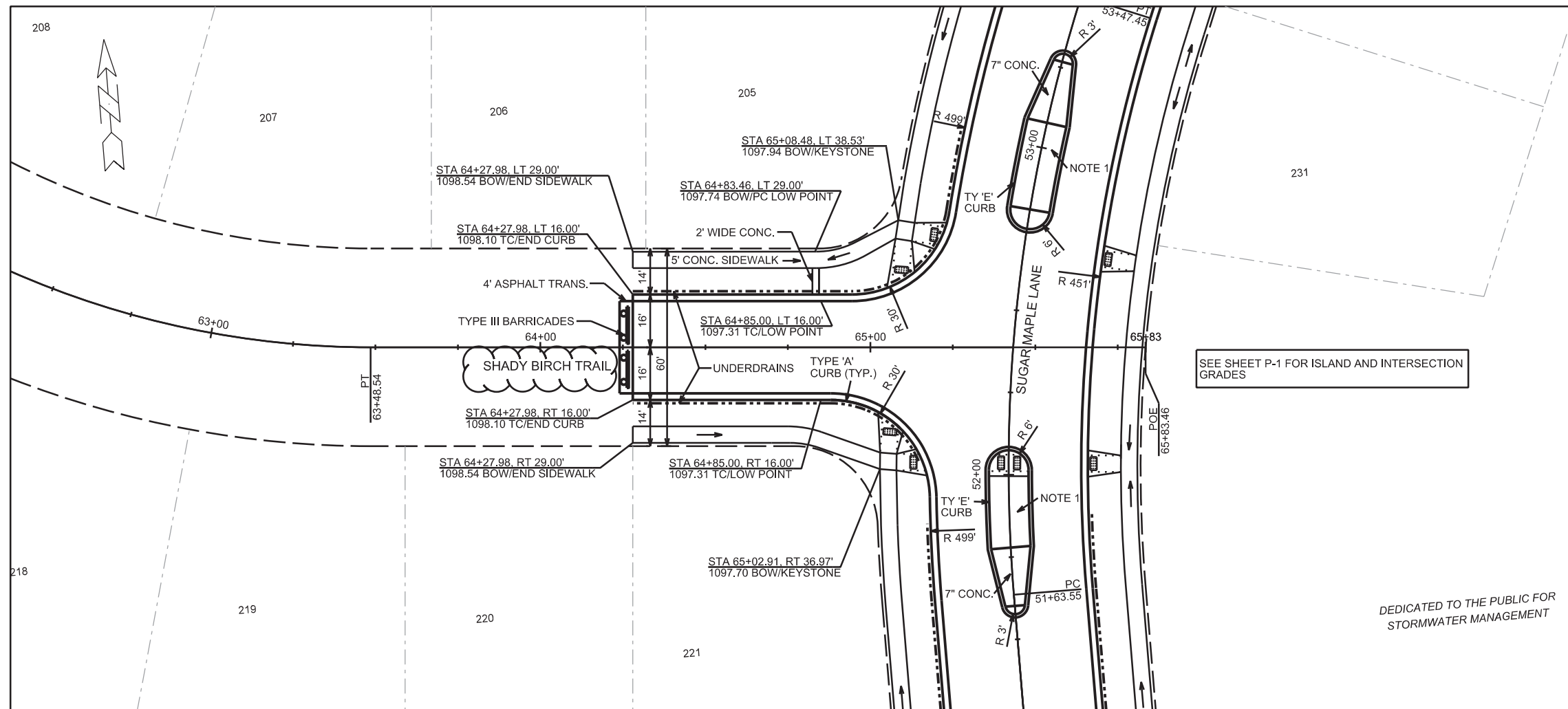


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REV. DATE:

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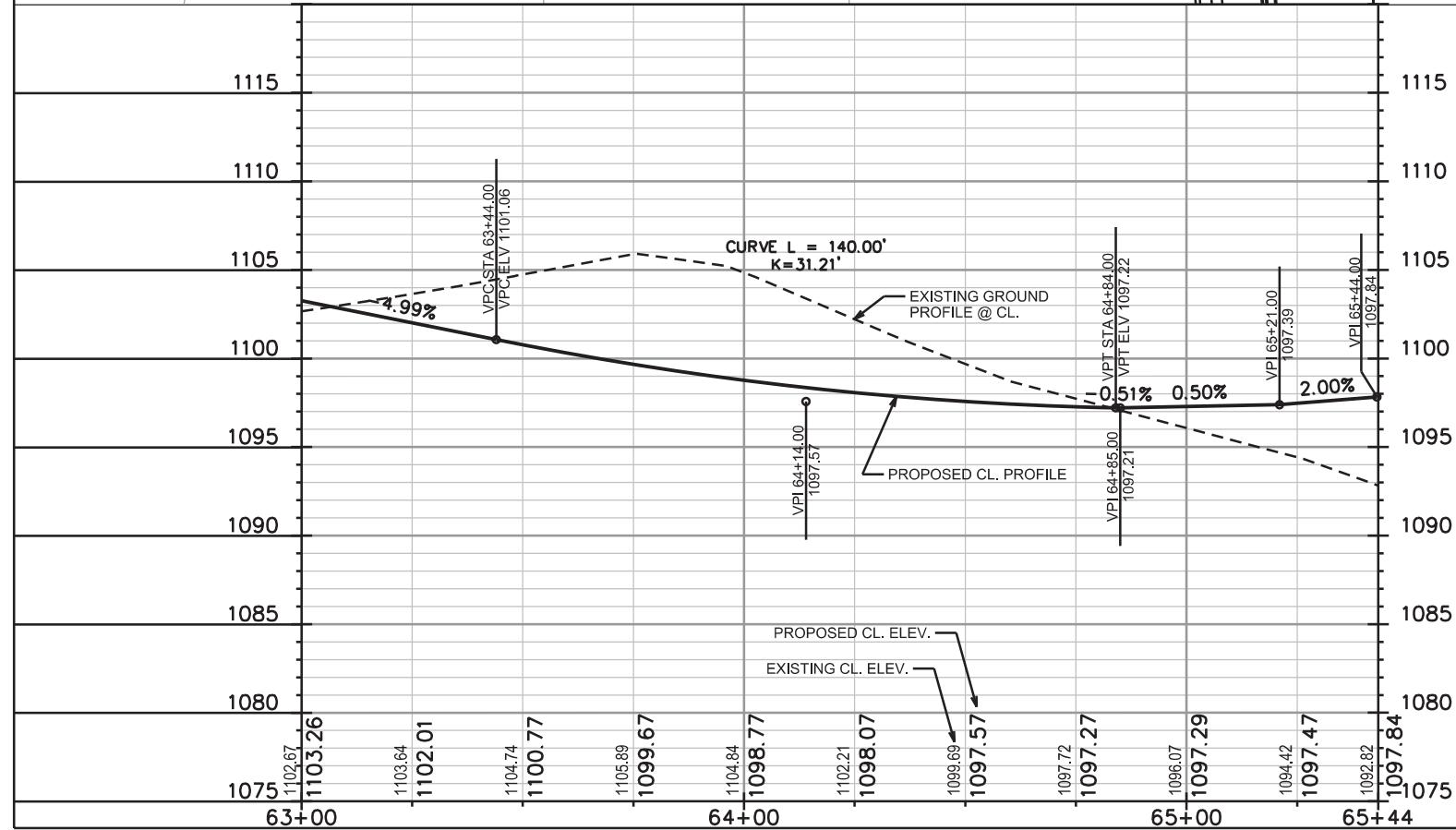


SEE SHEET P-1 FOR ISLAND AND INTERSECTION GRADES

DEDICATED TO THE PUBLIC FOR  
STORMWATER MANAGEMENT

O.L. 11

- NOTES:
1. PLANTINGS BY OTHERS
  2. CONSTRUCT ALL ISLAND/MEDIAN NOSES PER S.D.D. 3.13



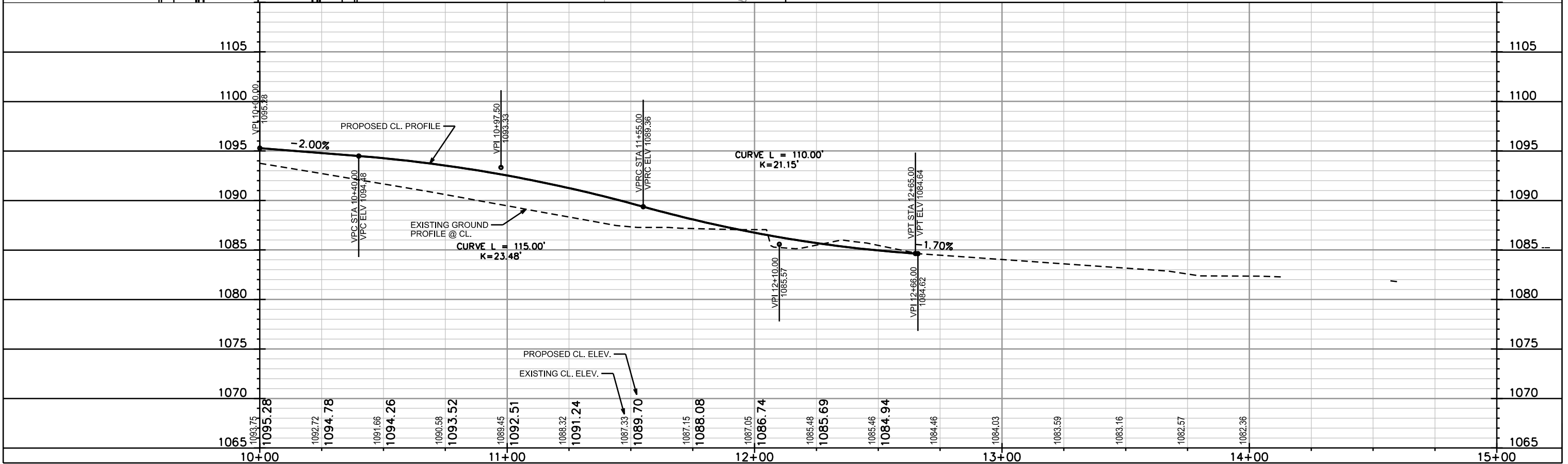
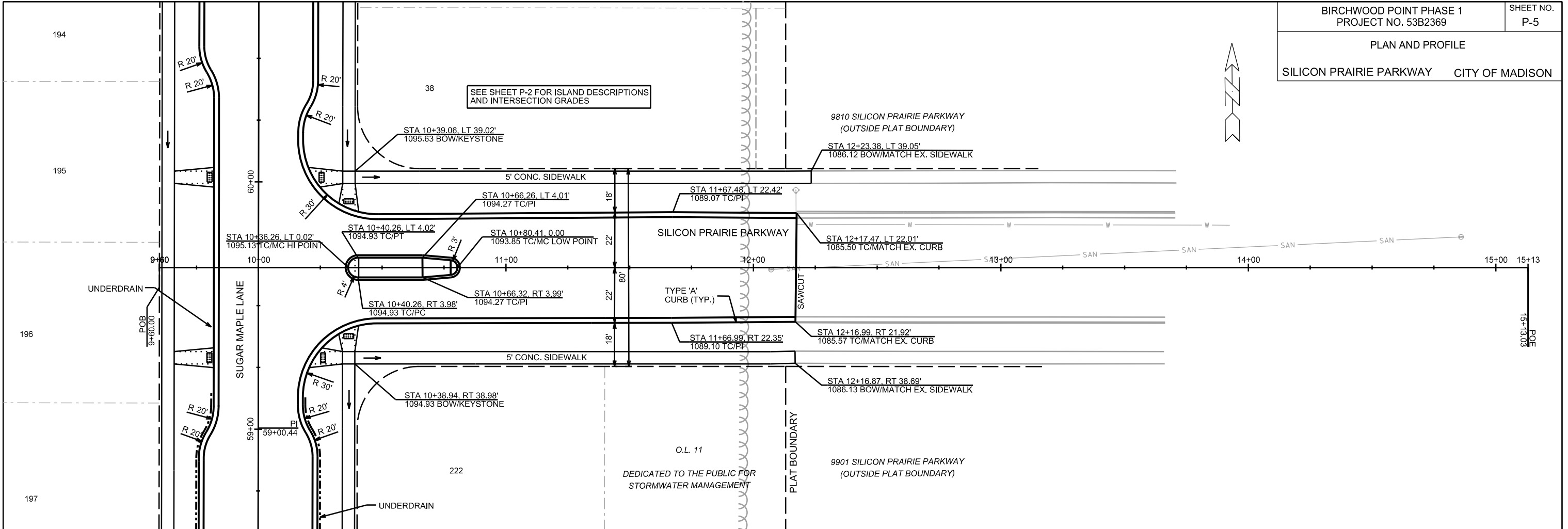
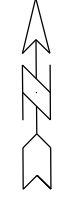
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REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





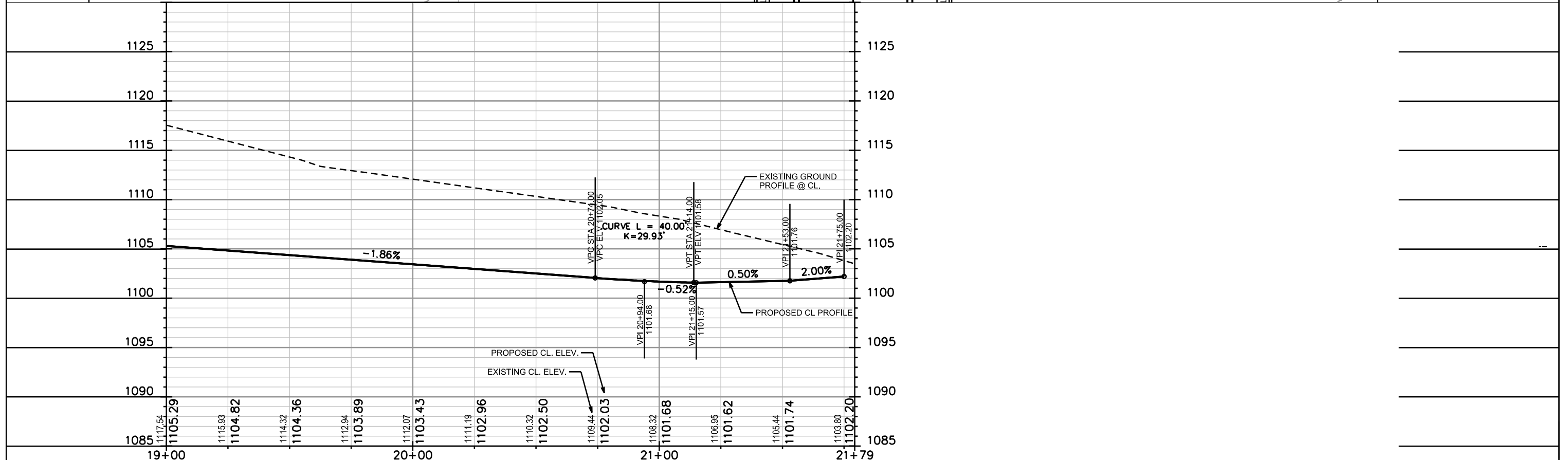
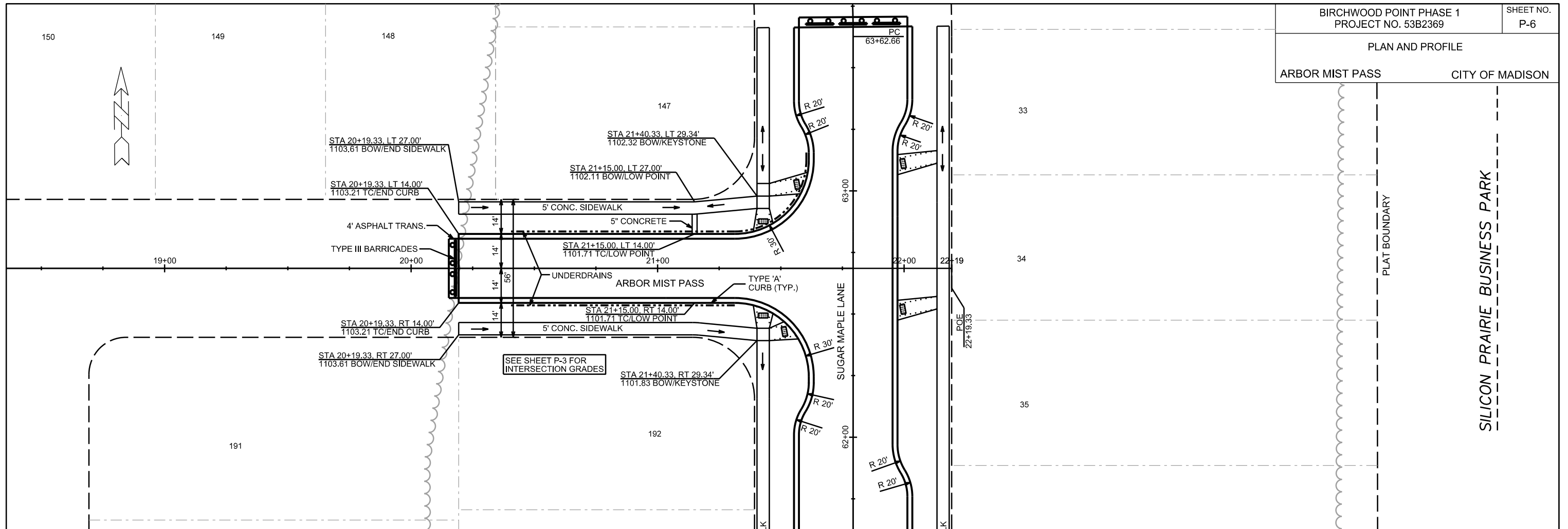
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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
ARBOR MIST PASS CITY OF MADISON

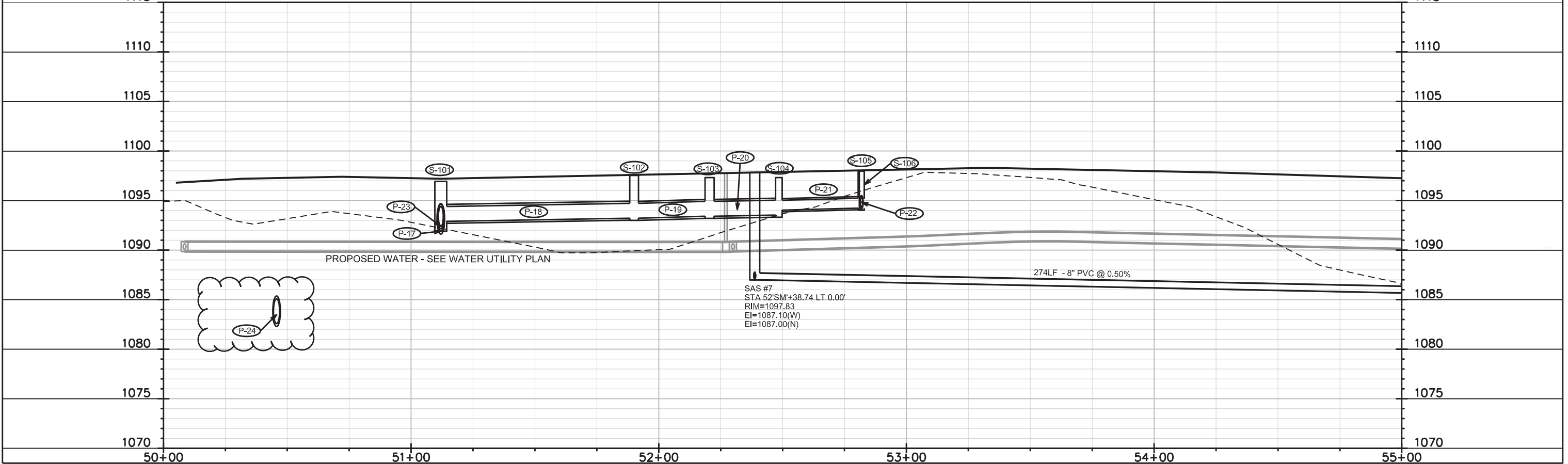
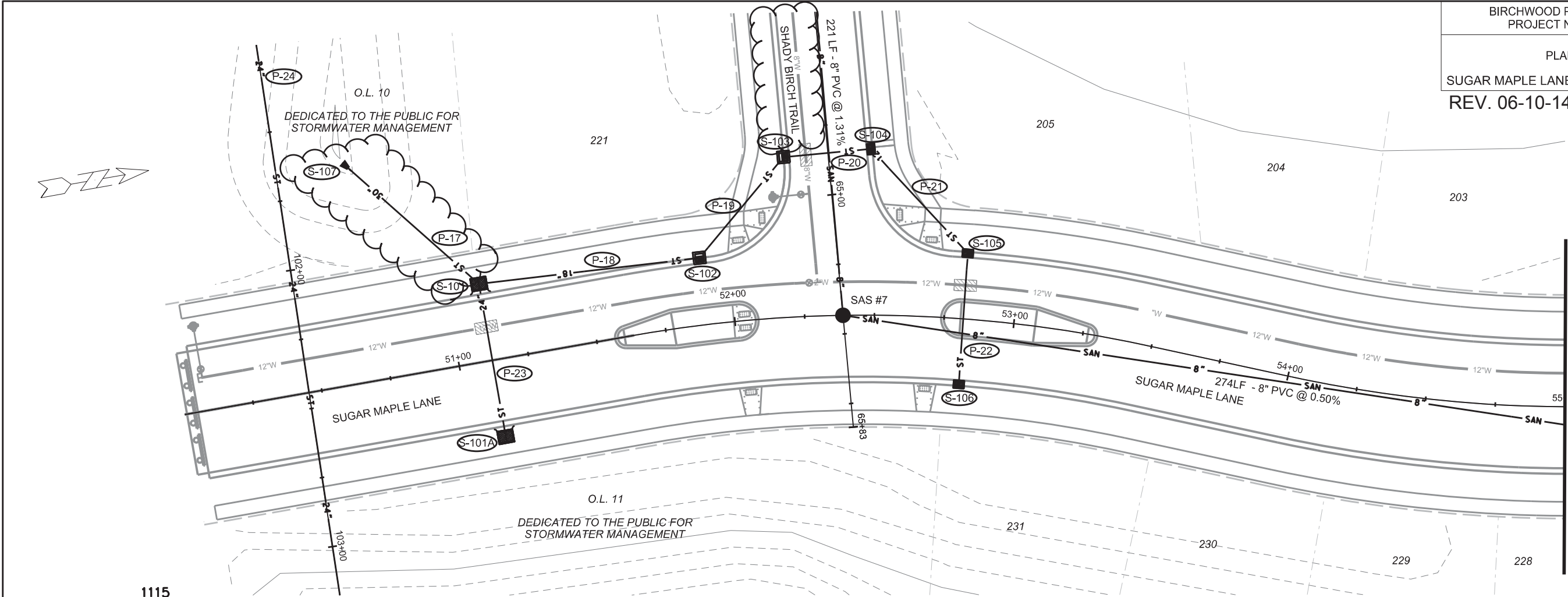


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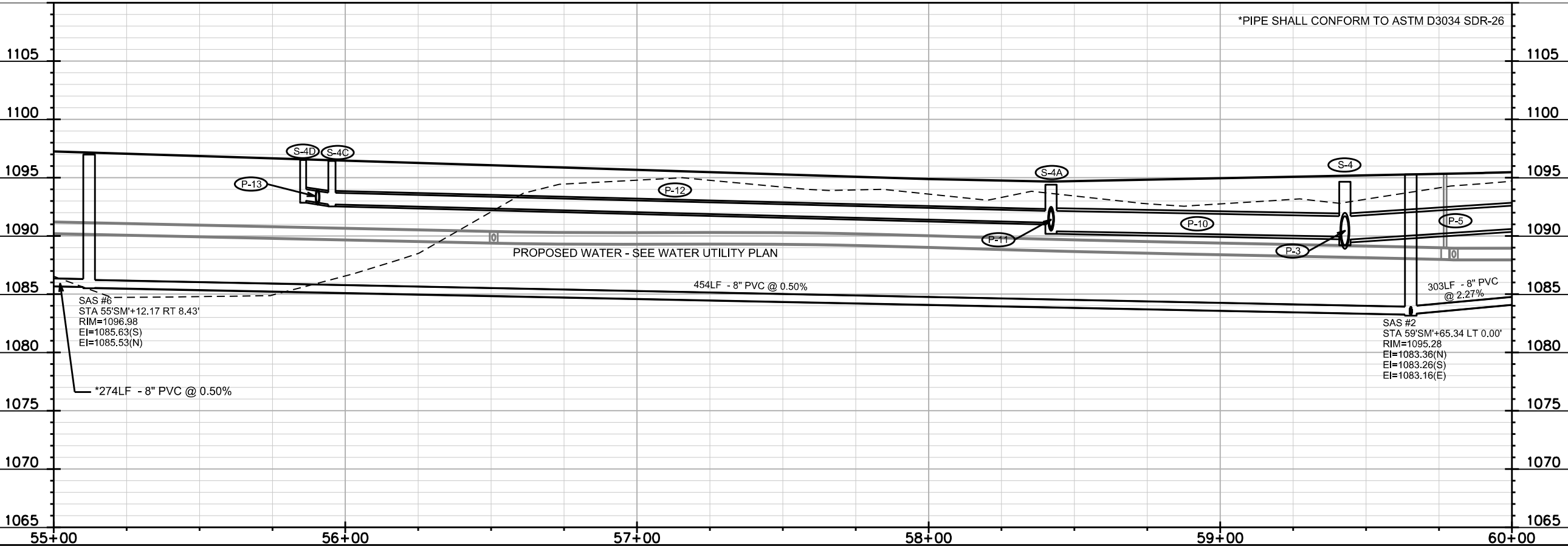
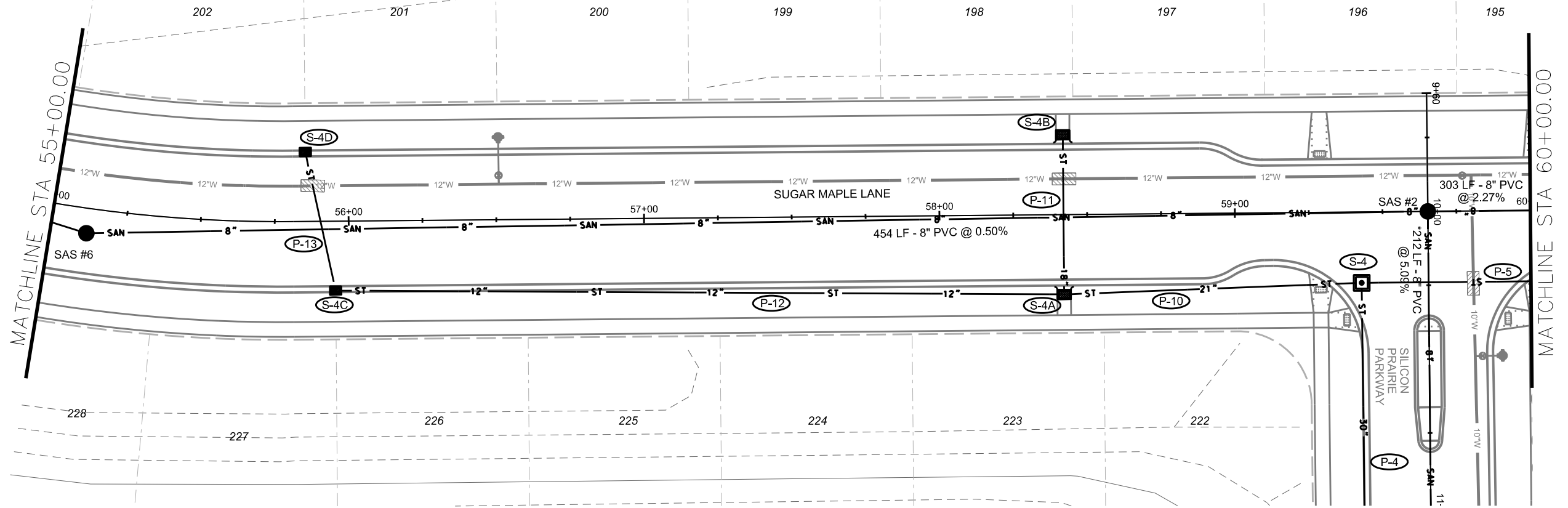
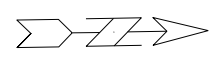


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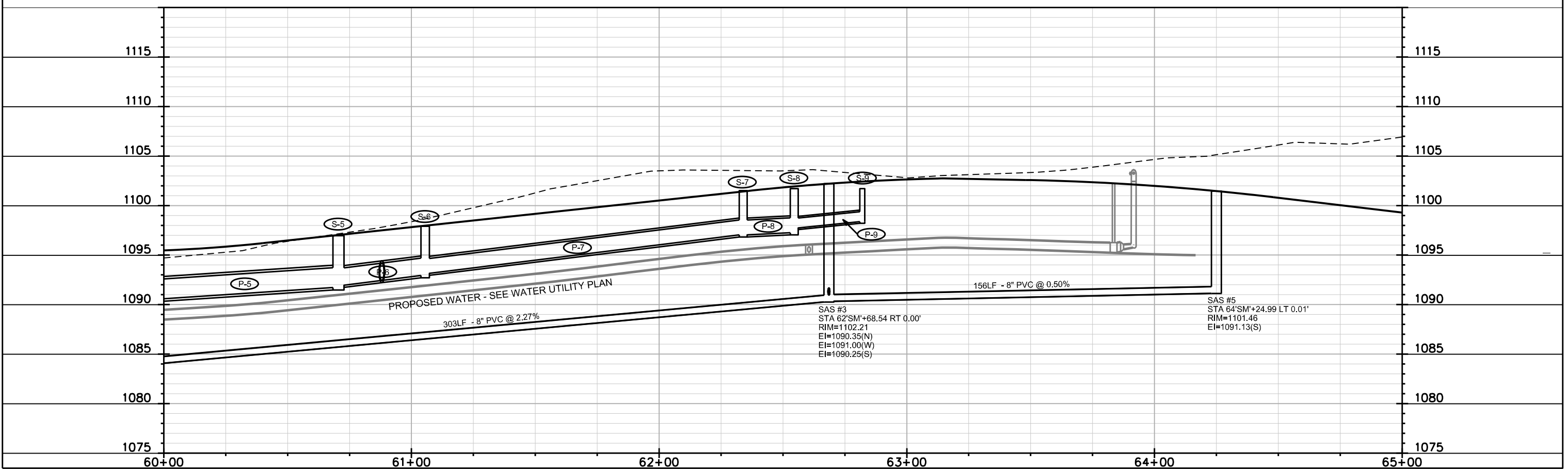
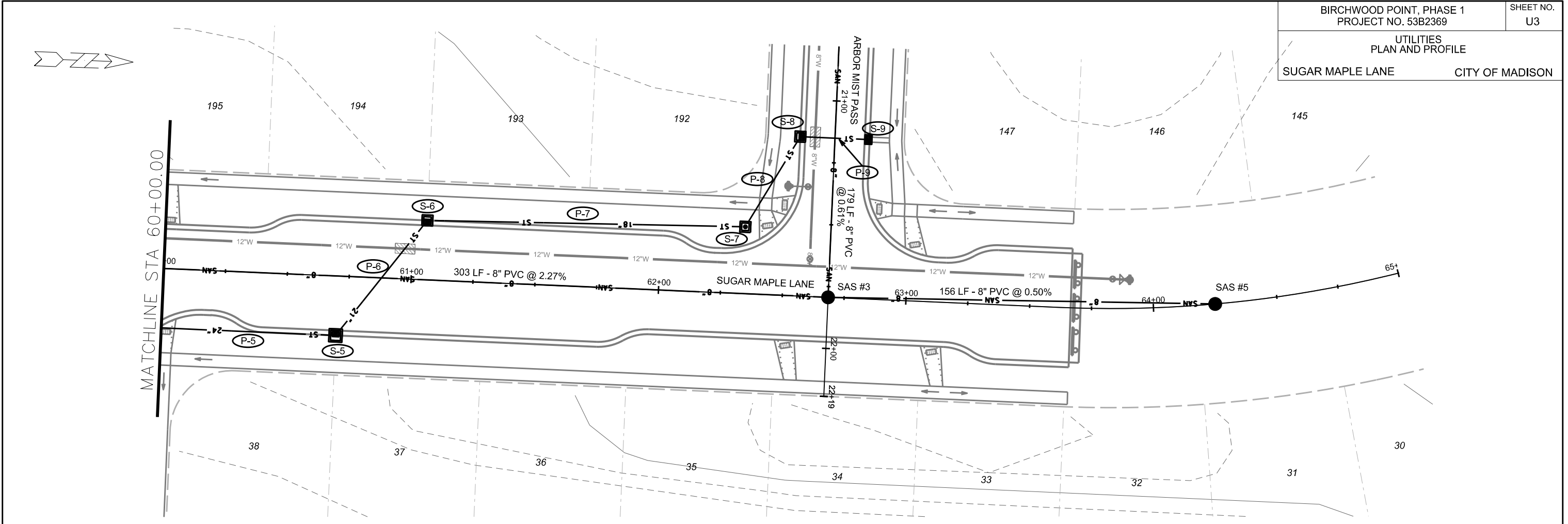
\*PIPE SHALL CONFORM TO ASTM D3034 SDR-26

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

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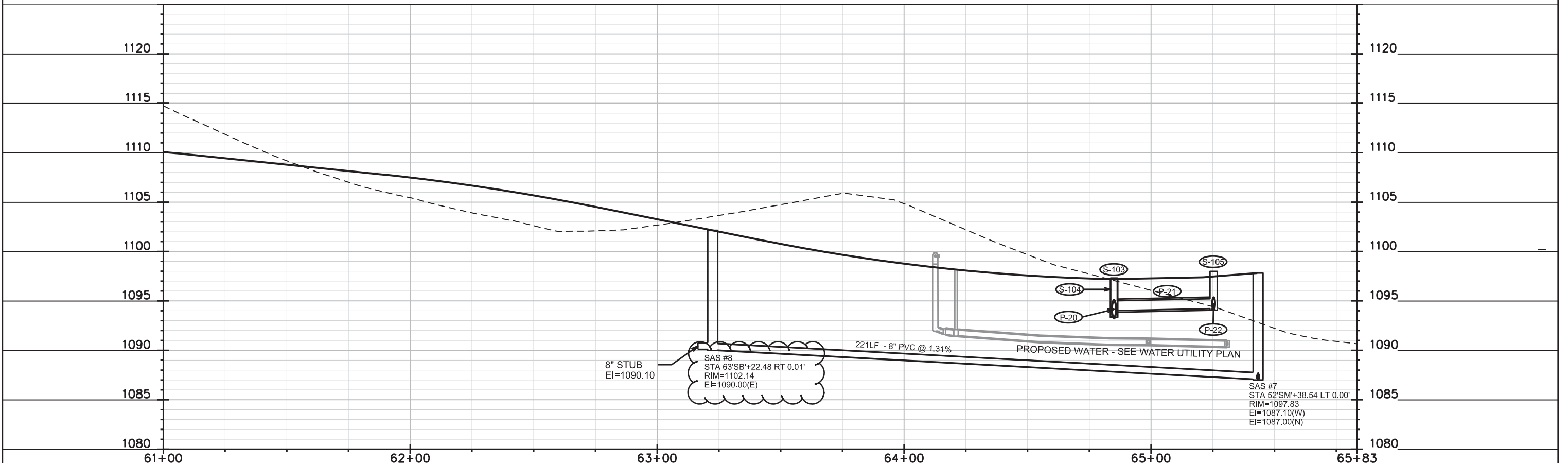
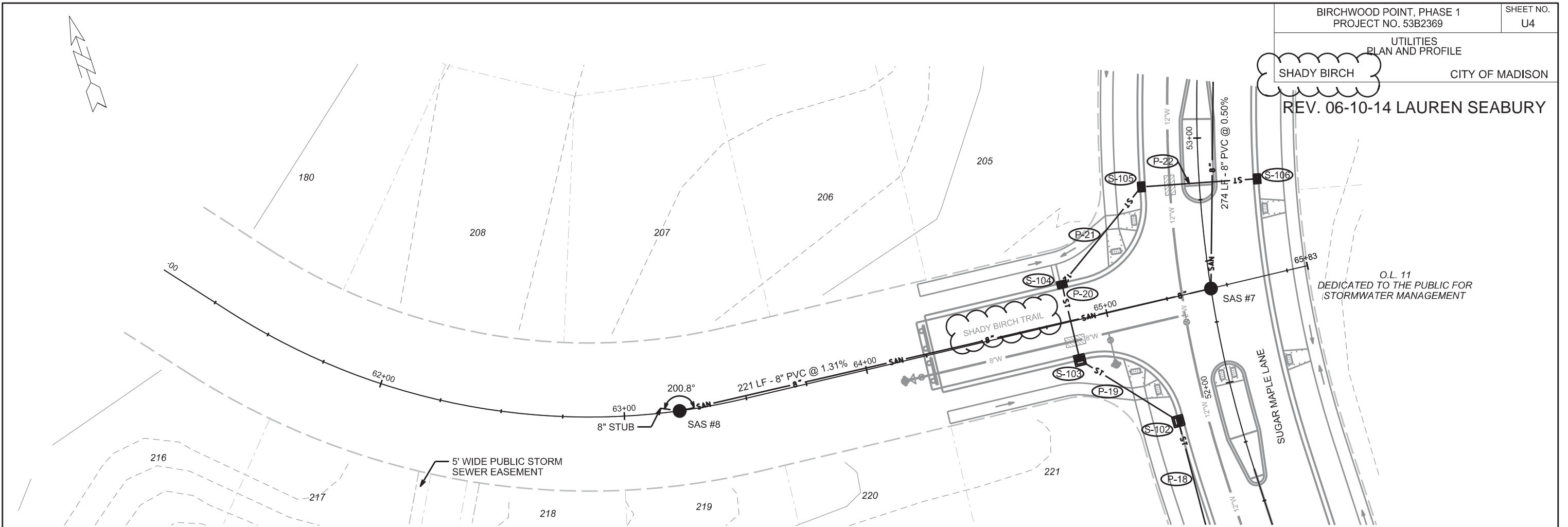


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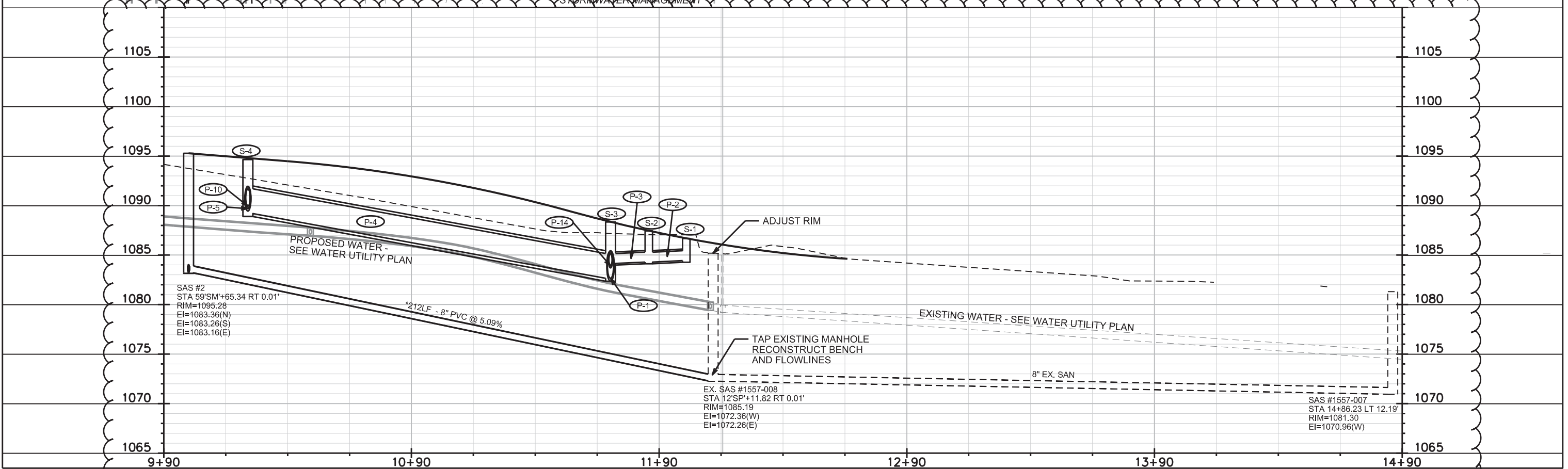
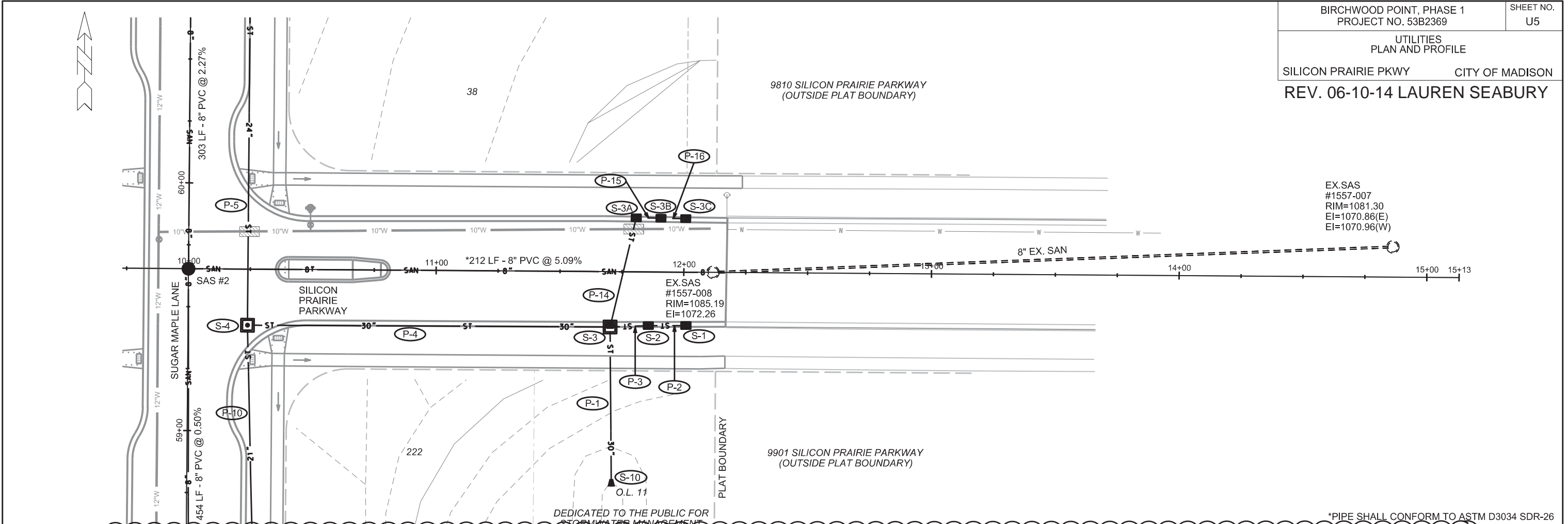


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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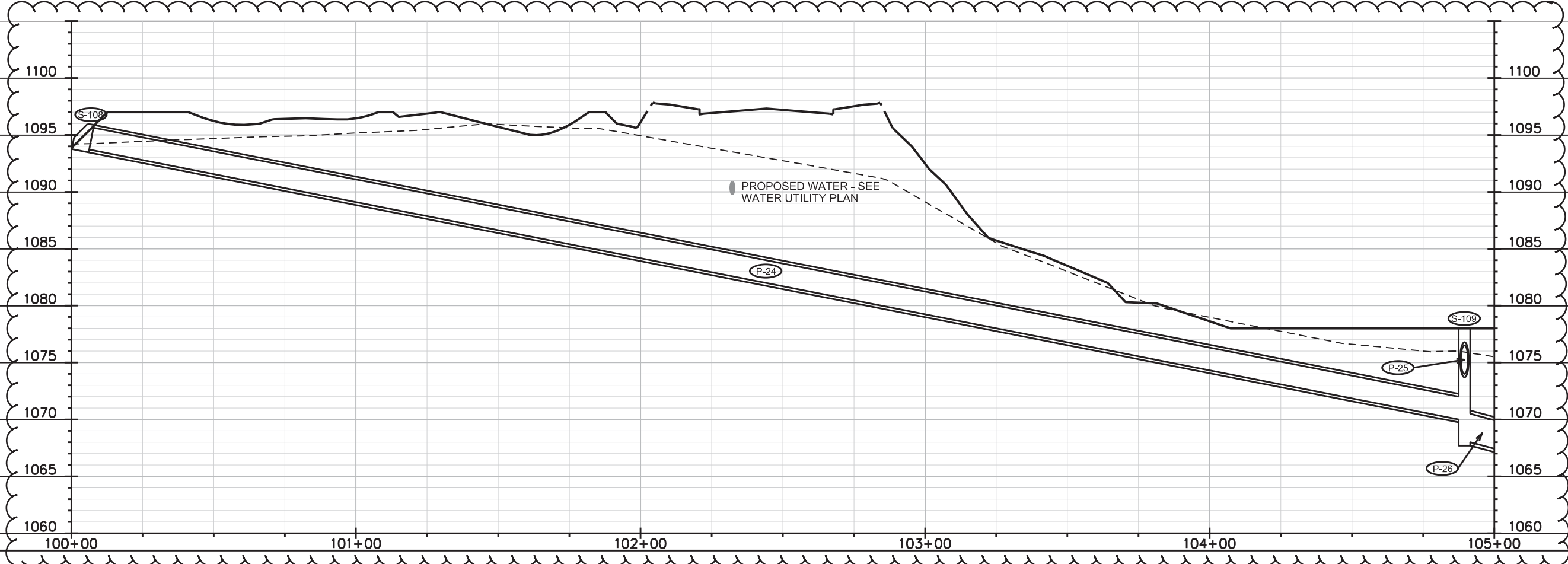
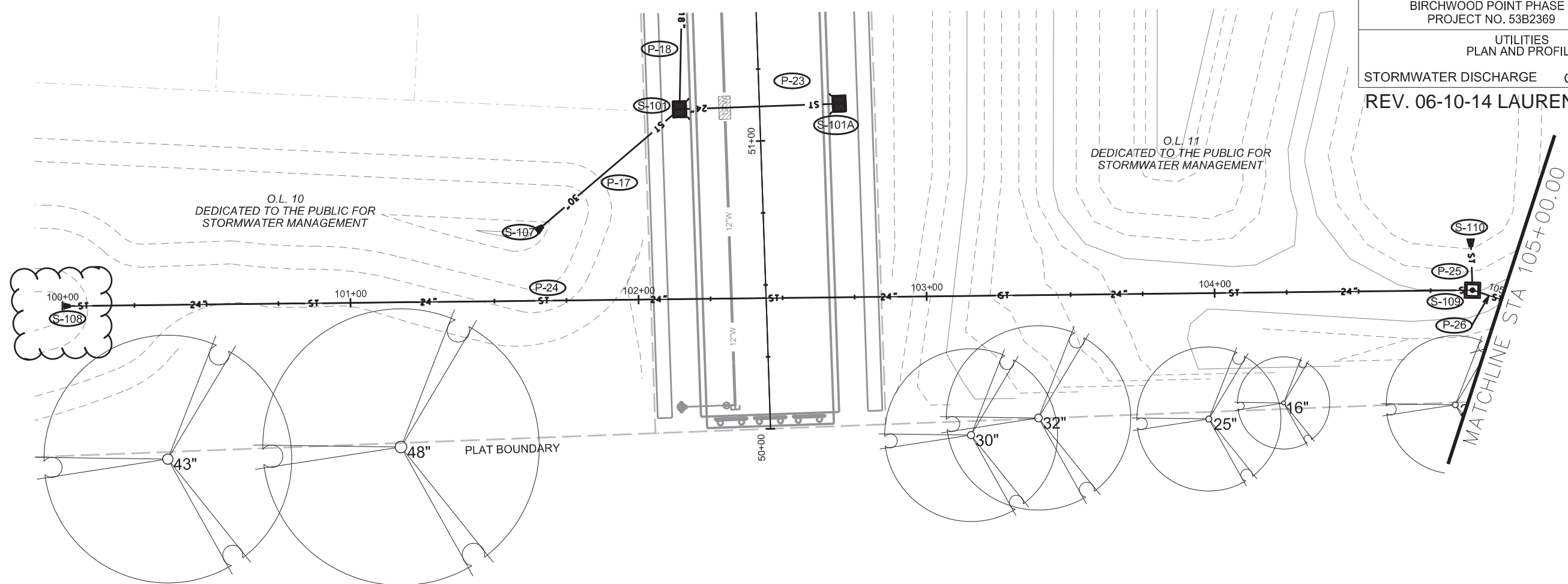
PLOT NAME: \_\_\_\_\_

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION





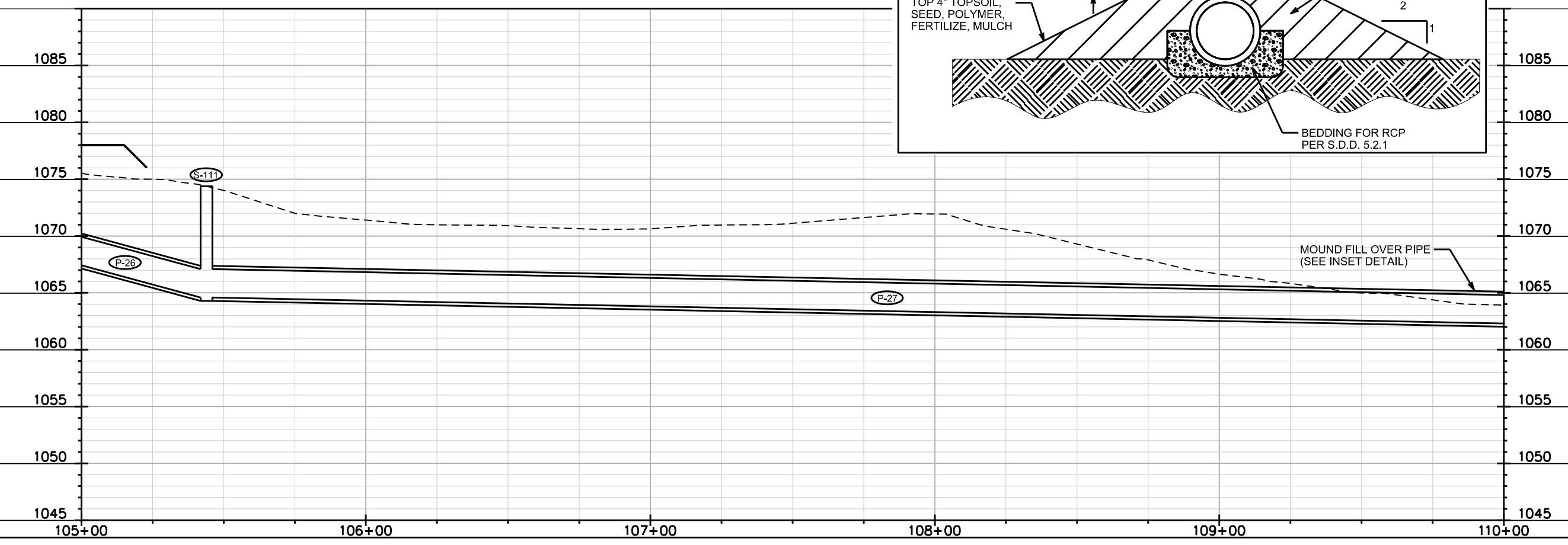
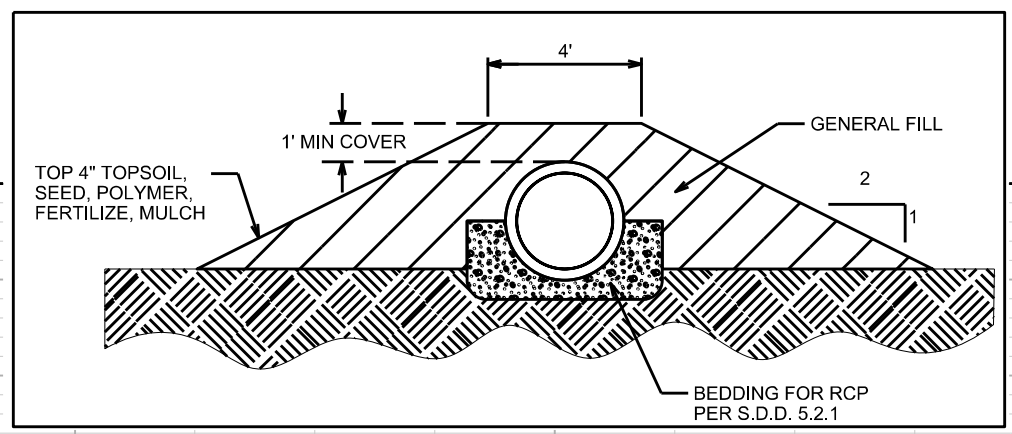
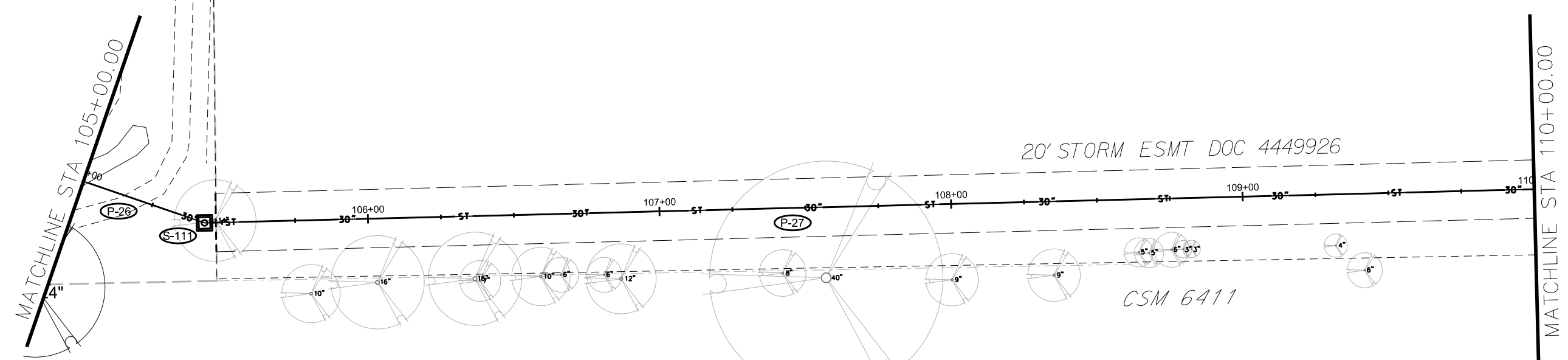
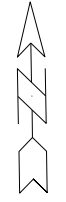


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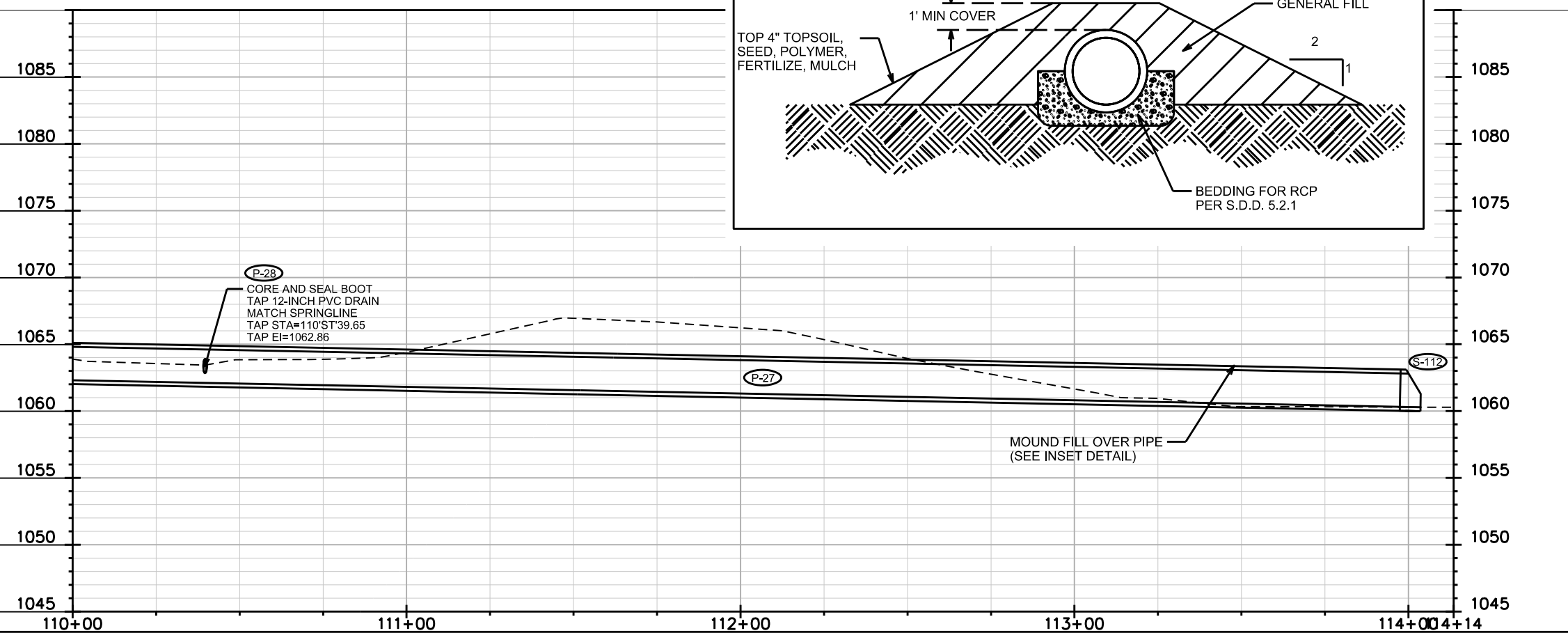
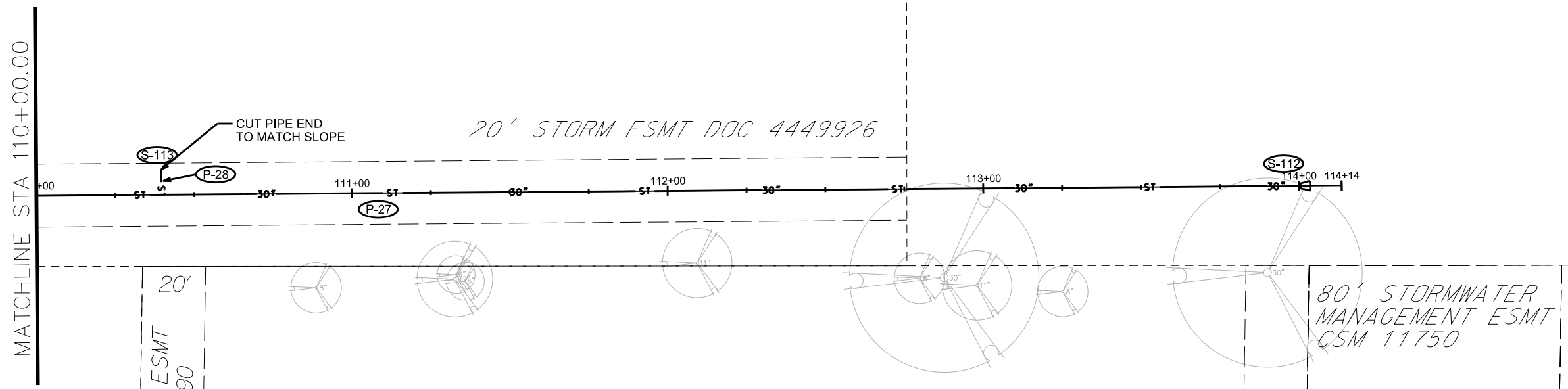
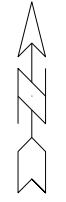


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

# SANITARY SCHEDULE

## ALIGNMENT CODES:

'SP' - SILICON PRAIRIE PARKWAY  
 'SM' - SUGAR MAPLE LANE  
 'AM' - ARBOR MIST PASS  
 'SB' - SHADY BIRCH TRAIL

BIRCHWOOD POINT, PHASE 1  
 PROJECT NO. 53B2369

SHEET NO.  
 U10

SANITARY SEWER SCHEDULE CITY OF MADISON

REV. 06-10-14 LAUREN SEABURY

### PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#2	59'SM'+65.34	RT-0.01	1095.28	1083.16	12.12	
SAS#3	62'SM'+68.54	RT-0.00	1102.21	1090.25	11.96	
SAS#4	20'AM'+00.01	LT-0.02	1103.43	1092.10	11.33	
SAS#5	64'SM'+24.99	LT-0.01	1101.46	1091.13	10.33	
SAS#6	55'SM'+12.17	RT-8.43	1096.98	1085.53	11.45	
SAS#7	52'SM'+38.54	LT-0.00	1097.83	1087.00	10.83	
SAS#8	63'SB'+22.48	RT-0.01	1102.14	1090.00	12.14	

### PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
EX.SAS#1557-008	SAS#2	1072.36	1083.16	212	5.09%	8"	SDR-26	
SAS#2	SAS#6	1083.26	1085.53	454	0.50%	8"	SDR-35	
SAS#6	SAS#7	1085.63	1087.00	274	0.50%	8"	SDR-35	
SAS#2	SAS#3	1083.36	1090.25	303	2.27%	8"	SDR-35	
SAS#3	SAS#5	1090.35	1091.13	156	0.50%	8"	SDR-35	
SAS#3	SAS#4	1091.00	1092.10	179	0.61%	8"	SDR-35	
SAS#7	SAS#8	1087.10	1090.00	221	1.31%	8"	SDR-35	

### ADJUST SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	EX. RIM	PROP. RIM	NOTES
EX.SAS#1557-008	12'SP'+11.82	RT-0.01	1085.19	1086.21	

PLOT SCALE: ---

PLOT NAME: ---

REV. DATE: ---

# STORM SEWER SCHEDULE

## ALIGNMENT CODES:

'SP' - SILICON PRAIRIE PARKWAY  
 'SM' - SUGAR MAPLE LANE  
 'AM' - ARBOR MIST PASS  
 'SB' - SHADY BIRCH TRAIL  
 'ST' - STORMWATER DISCHARGE

BIRCHWOOD POINT, PHASE 1  
 PROJECT NO. 53B2369

SHEET NO.  
 U11

STORM SEWER SCHEDULE

CITY OF MADISON

REV. 06-10-14 LAUREN SEABURY

### PROPOSED STORM STRUCTURES

STRUC NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	12'SP'+00.99	RT-21.50	H INLET	1086.67	1082.65	4.02	FP; W/ R-3067-7004-V
S-2	11'SP'+85.82	RT-21.50	H INLET	1087.44	1084.42	3.02	FP; W/ R-3067-7004-V
S-3	11'SP'+70.38	RT-20.00	4X4 SAS	1088.34	1084.29	4.05	FP; W/ R-3067-7004-V
S-4	59'SM'+42.74	RT-24.00	4X4 SAS	1094.65	1089.19	5.46	W/ R-1550-0054
S-5	60'SM'+70.52	RT-24.00	4X4 SAS	1096.96	1091.72	5.24	W/ R-3067-7004-V
S-6	61'SM'+05.54	LT-24.00	4X4 SAS	1097.91	1093.12	4.79	W/ R-3067-7004-V
S-7	62'SM'+33.92	LT-26.99	3X3 SAS	1101.51	1097.04	4.47	W/ R-1550-0054
S-8	21'AM'+15.00	RT-14.00	3X3 SAS	1101.71	1097.25	4.46	W/ R-3067-7004-V
S-9	21'AM'+15.00	LT-13.50	H INLET	1101.71	1098.38	3.33	W/ R-3067-7004-V
S-10	11'SP'+71.32	RT-86.75	30-IN RCP APRON ENDWALL W/ GATE	1082.00	1082.00	0.00	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-3A	11'SP'+80.62	LT-21.50	H INLET	1087.73	1084.11	3.62	W/ R-3067-7004-V
S-3B	11'SP'+90.62	LT-21.50	H INLET	1087.19	1084.40	2.79	W/ R-3067-7004-V
S-3C	12'SP'+00.62	LT-21.50	H INLET	1086.69	1084.44	2.25	W/ R-3067-7004-V
S-4A	58'SM'+42.00	RT-27.00	TERRACE INLET TYPE III	1094.40	1090.40	4.00	FP; PER S.D.D. 5.7.12B
S-4B	58'SM'+42.00	LT-27.00	TERRACE INLET TYPE III	1094.40	1090.92	3.48	FP; PER S.D.D. 5.7.12B
S-4C	55'SM'+95.41	RT-23.50	H INLET	1096.43	1092.70	3.73	W/ R-3067-7004-V
S-4D	55'SM'+85.54	LT-23.50	H INLET	1096.51	1093.00	3.51	W/ R-3067-7004-V
S-101	51'SM'+12.00	LT-27.75	TERRACE INLET TYPE II	1096.94	1091.90	5.04	FP; PER S.D.D. 5.7.12A
S-102	51'SM'+90.05	LT-24.00	4X4 SAS	1097.53	1093.22	4.31	W/ R-3067-7004-V
* S-103	<b>64'SB'+85.00</b>	<b>RT-16.00</b>	4X4 SAS	1097.31	1093.41	3.90	W/ R-3067-7004-V
* S-104	<b>64'SB'+85.00</b>	<b>LT-15.50</b>	H INLET	1097.31	1093.53	3.78	W/ R-3067-7004-V
S-105	52'SM'+81.73	LT-23.50	H INLET	1097.99	1094.23	3.76	W/ R-3067-7004-V
S-106	52'SM'+81.97	RT-23.50	H INLET	1097.99	1094.42	3.57	W/ R-3067-7004-V
* S-107	<b>50'SM'+71.30</b>	<b>LT-78.94</b>	30-IN RCP APRON ENDWALL W/ GATE	<b>1091.00</b>	<b>1091.00</b>	0.00	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-101A	51'SM'+12.00	RT-27.75	TERRACE INLET TYPE II	1096.95	1092.62	4.33	FP; PER S.D.D. 5.7.12A
* S-108	<b>100'ST'+00.34</b>	<b>LT-0.00</b>	24-IN RCP APRON ENDWALL W/ GATE	1094.00	1094.00	0.00	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-109	104'ST'+89.53	LT-0.00	4X4 SAS	1078.00	1068.00	10.00	W/ R-1550-0054
S-110	104'ST'+89.08	LT-17.96	30-IN RCP APRON ENDWALL W/ GATE	1076.00	1076.00	0.00	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-111	105'ST'+43.93	LT-0.00	4X4 SAS	1074.38	1064.59	9.79	W/ R-1550-0054
S-112	114'ST'+03.57	LT-0.00	30-IN RCP APRON ENDWALL W/ GATE	1060.29	1060.29	0.00	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-113	110'ST'+39.65	LT-8.01	PIPE END	1063.59	1063.59	0.00	CUT PIPE TO MATCH SLOPE

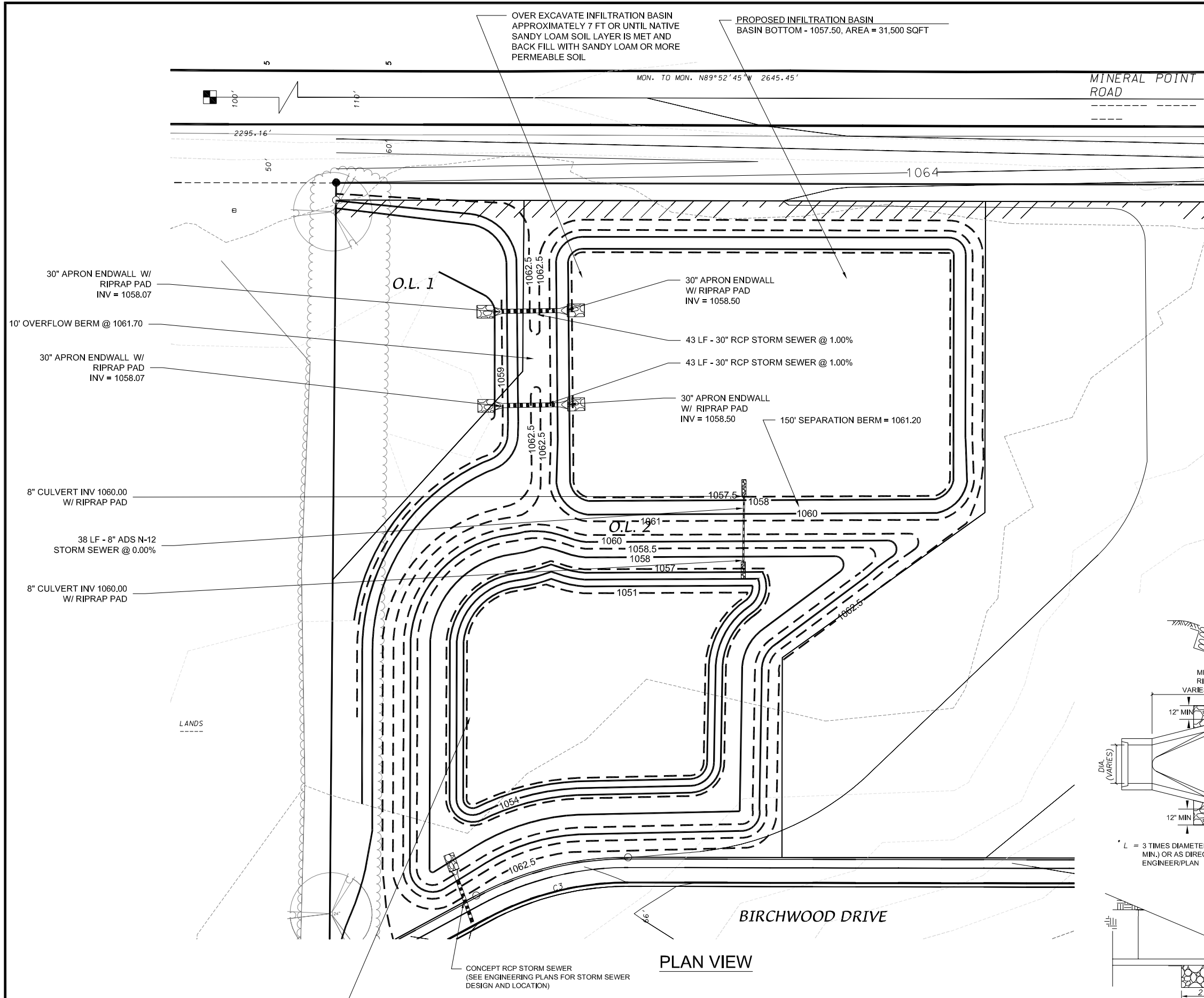
### PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
P-1	S-10	S-3	1082.00	1082.65	64	1.01%	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-2	S-2	S-1	1084.29	1084.42	15	0.86%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-3	S-3	S-2	1084.15	1084.29	15	0.91%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-4	S-3	S-4	1082.65	1089.19	146	4.47%	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-5	S-4	S-5	1089.69	1091.72	128	1.59%	24"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-6	S-5	S-6	1091.97	1093.12	59	1.94%	21"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-7	S-6	S-7	1093.37	1097.04	128	2.86%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-8	S-7	S-8	1097.04	1097.25	43	0.50%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-9	S-8	S-9	1097.75	1098.38	28	2.29%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-10	S-4	S-4A	1089.94	1090.40	101	0.46%	21"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-11	S-4A	S-4B	1090.65	1090.92	54	0.50%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-12	S-4A	S-4C	1091.15	1092.70	247	0.63%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-13	S-4C	S-4D	1092.70	1093.00	48	0.62%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-14	S-3	S-3A	1083.90	1084.11	53	0.40%	15"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-15	S-3A	S-3B	1084.36	1084.40	10	0.40%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-16	S-3B	S-3C	1084.40	1084.44	10	0.40%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
* P-17	S-107	S-101	1091.00	1091.90	<b>65</b>	<b>1.38%</b>	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-18	S-101	S-102	1092.90	1093.22	80	0.40%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-19	S-102	S-103	1093.22	1093.41	47	0.40%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-20	S-103	S-104	1093.41	1093.53	32	0.40%	18"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-21	S-104	S-105	1094.03	1094.23	51	0.40%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-22	S-105	S-106	1094.23	1094.42	47	0.40%	12"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-23	S-101	S-101A	1092.40	1092.62	56	0.40%	24"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
* P-24	S-109	S-108	1070.00	1094.00	<b>489</b>	<b>4.91%</b>	24"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-25	S-109	S-110	1074.00	1076.00	18	11.14%	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-26	S-111	S-109	1064.59	1068.00	54	6.27%	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-27	S-112	S-111	1060.29	1064.59	860	0.50%	30"	RCP	CLASS III (ASTM C 76) PER SPEC. 504.2(A)
P-28	TAP IN P-27	S-113	1063.06	1063.59	8.01	6.62%	12"	PVC	PSM, ASTM D 3034, SDR-26 PER SPEC. 504.2(H)

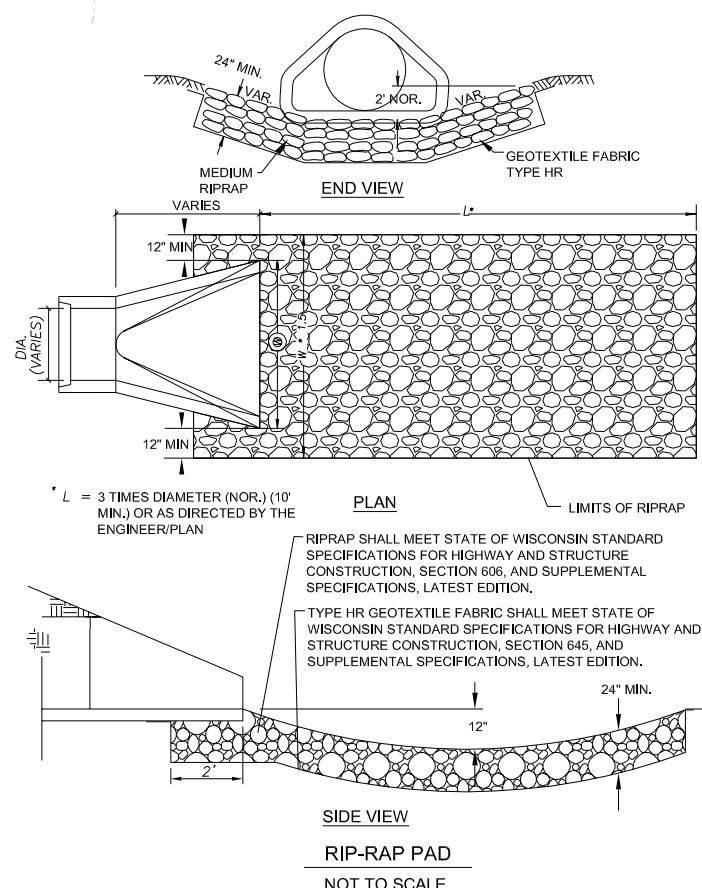
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PLOT NAME: ---

REV. DATE: ---



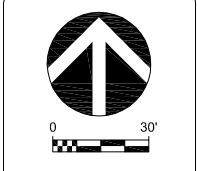
- GENERAL NOTES:**
1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS.
  2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN.
  3. LENGTHS OF CULVERTS INCLUDE ENDWALLS.
  4. CULVERT LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO TYPICAL CROSS SECTION.
  5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 100 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 1/2 POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. THE INFILTRATION AREA SHALL BE SEEDED WITH A SEED MIX TOLERANT OF FLUCTUATING WATER CONDITIONS.
  6. ENGINEERED SOIL IN INFILTRATION BASIN SHALL BE 70-85% SAND & 15-30% COMPOST
  7. SEE APPROVED ENGINEERING PLANS FOR SITE STORM SEWER TYPE, LENGTHS, AND SIZES
  8. A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE INFILTRATION BASIN BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.



**PROPOSED NORTH WET DETENTION/INFILTRATION BASIN DETAIL**

**D'ONOFRIO KOTTKE AND ASSOCIATES, INC.**  
 7530 Westward Way, Madison, WI 53717  
 Phone: 608-833-7530 • Fax: 608-833-1089  
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

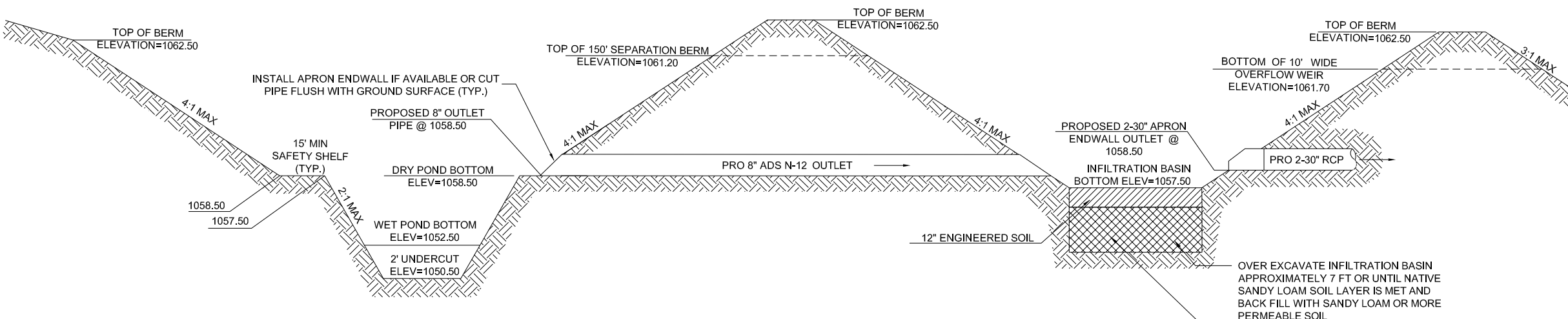
PROPOSED NORTH DETENTION/INFILTRATION BASIN DETAIL - OUTLET 2  
 PLAN VIEW  
**BIRCHWOOD POINT**  
 CITY OF MADISON, WISCONSIN



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**PROPOSED DETENTION BASIN**  
 TOP OF POND BERM - 1062.50  
 TOP OF WET POND/DRY POND BOTTOM - 1058.50  
 BOTTOM OF WET POND W/ 2' UNDERCUT - 1050.50

CONCEPT RCP STORM SEWER  
 (SEE ENGINEERING PLANS FOR STORM SEWER  
 DESIGN AND LOCATION)



**PROFILE VIEW**

**PROPOSED NORTH WET DETENTION/INFILTRATION BASIN DETAIL  
NOT TO SCALE**

OVER EXCAVATE INFILTRATION BASIN APPROXIMATELY 7 FT OR UNTIL NATIVE SANDY LOAM SOIL LAYER IS MET AND BACK FILL WITH SANDY LOAM OR MORE PERMEABLE SOIL

NOTE: A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.

**D'ONOFRIO KOTTKE AND ASSOCIATES, INC.**  
7530 Westward Way, Madison, WI 53717  
Phone: 608.833.7530 • Fax: 608.833.1089  
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

PROPOSED NORTH DETENTION/INFILTRATION BASIN DETAIL - OUTLOT 2  
CROSS SECTION

**BIRCHWOOD POINT**

CITY OF MADISON, WISCONSIN



DATE: 03-21-14  
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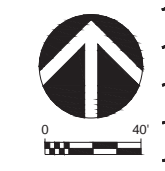
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**D'ONOFRIO KOTTKE AND ASSOCIATES, INC.**  
 7350 Westwood Way, Madison, WI 53717  
 Phone: 608-455-7550 • Fax: 608-455-1089  
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

- GENERAL NOTES:**
1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS.
  2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN.
  3. LENGTHS OF CULVERTS INCLUDE ENDWALLS.
  4. CULVERT LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO TYPICAL CROSS SECTION.
  5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 100 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 1/2 POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. THE INFILTRATION AREA SHALL BE SEEDED WITH A SEED MIX TOLERANT OF FLUCTUATING WATER CONDITIONS.
  6. ENGINEERED SOIL IN INFILTRATION BASIN SHALL BE 70-85% SAND & 15-30% COMPOST
  7. SEE APPROVED ENGINEERING PLANS FOR SITE STORM SEWER TYPE, LENGTHS, AND SIZES
  8. A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE INFILTRATION BASIN BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.

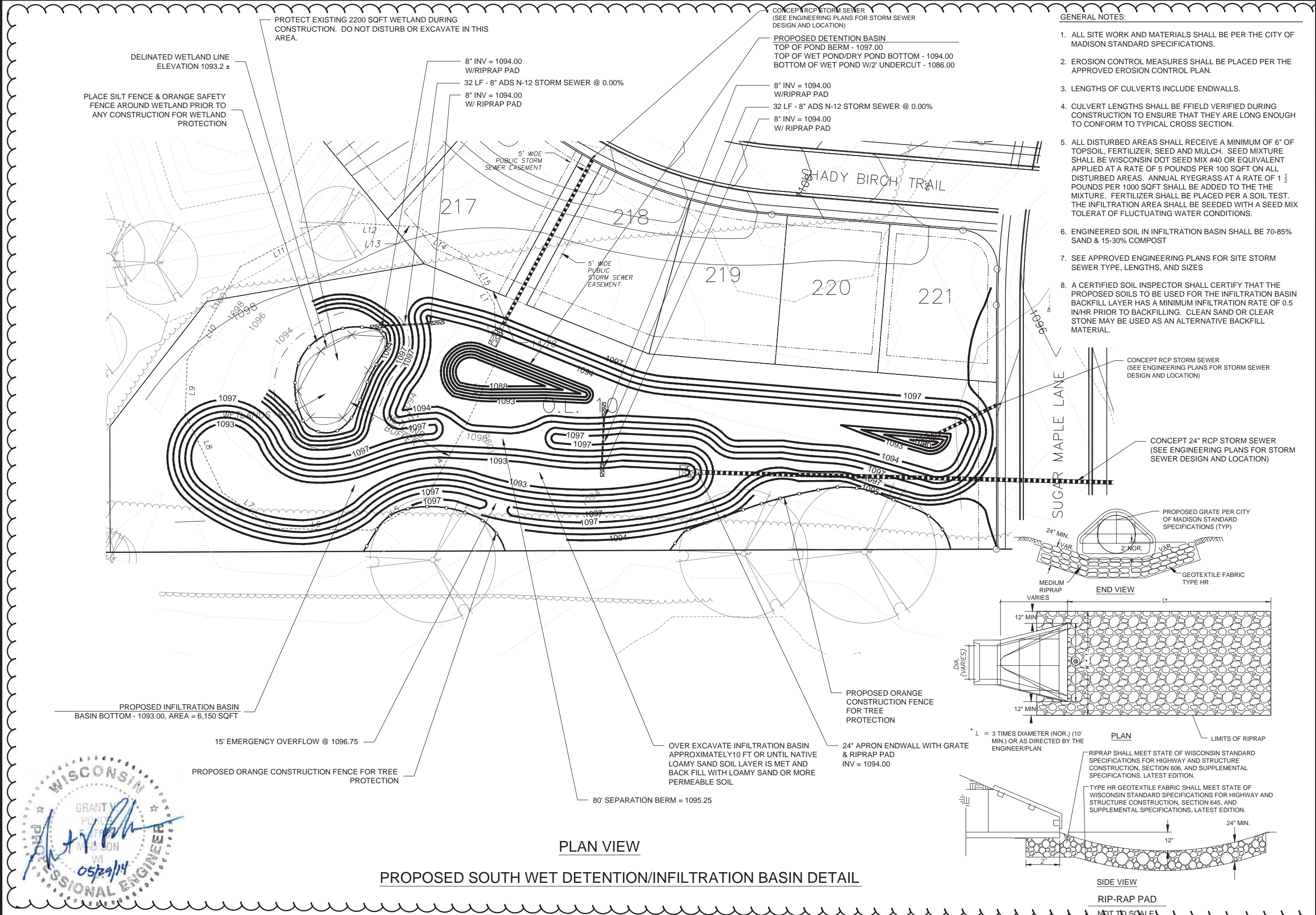
PROPOSED SOUTH DETENTION/INFILTRATION BASIN DETAIL - OUTLET 9  
 PLAN VIEW

**BIRCHWOOD POINT**



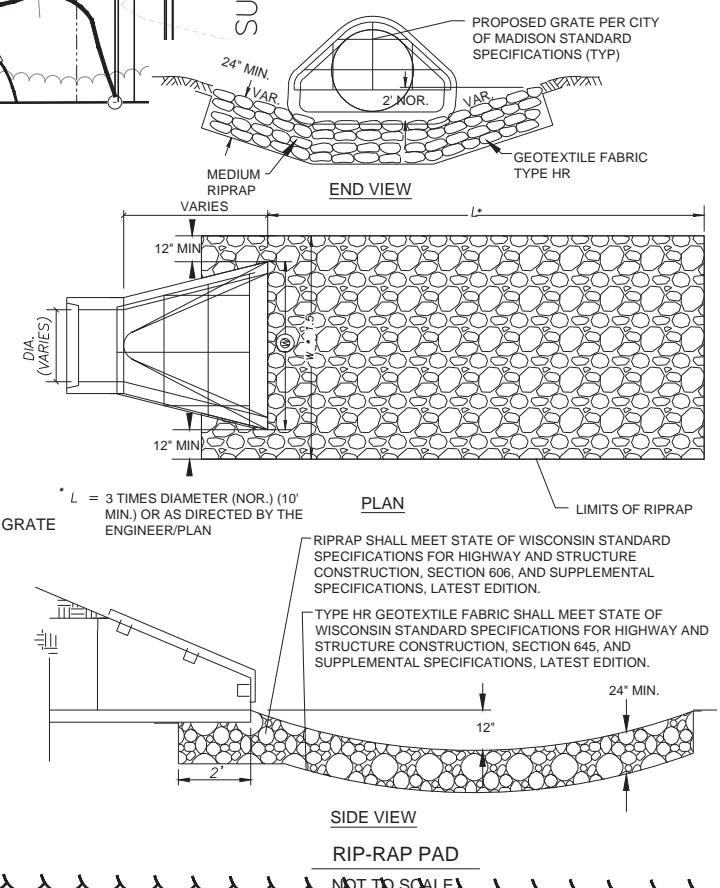
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PLAN VIEW

PROPOSED SOUTH WET DETENTION/INFILTRATION BASIN DETAIL



SIDE VIEW  
 RIP-RAP PAD

NOT TO SCALE

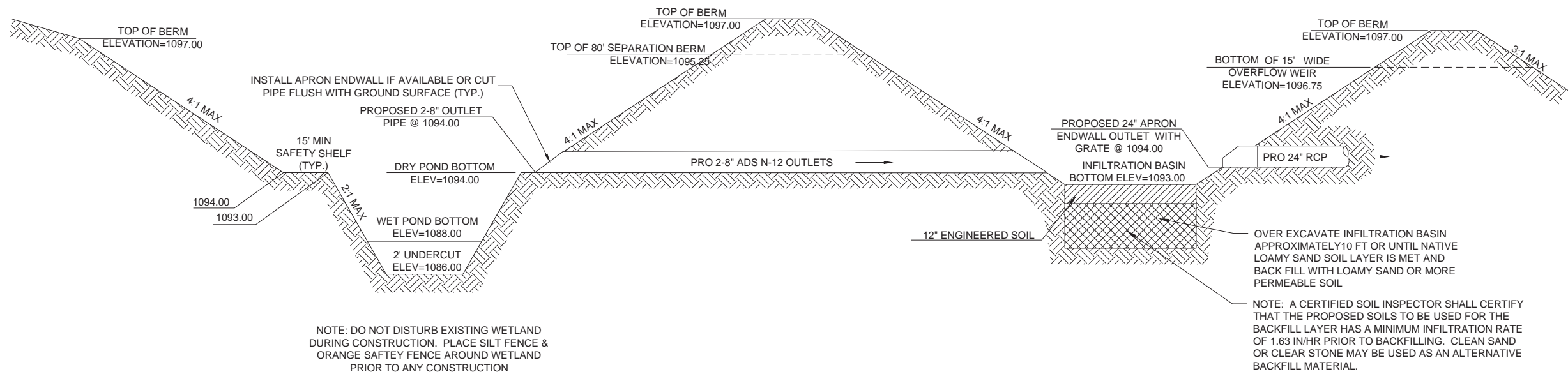




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 YOUR NATURAL RESOURCES FOR LAND DEVELOPMENT

PROPOSED SOUTH DETENTION/INFILTRATION BASIN DETAIL - OUTLOT 9  
 CROSS SECTION VIEW

**BIRCHWOOD POINT**



NOTE: DO NOT DISTURB EXISTING WETLAND DURING CONSTRUCTION. PLACE SILT FENCE & ORANGE SAFETY FENCE AROUND WETLAND PRIOR TO ANY CONSTRUCTION

NOTE: A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 1.63 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.

**PROFILE VIEW**

**PROPOSED SOUTH WET DETENTION/INFILTRATION BASIN DETAIL**  
 NOT TO SCALE



DATE: 05-29-14  
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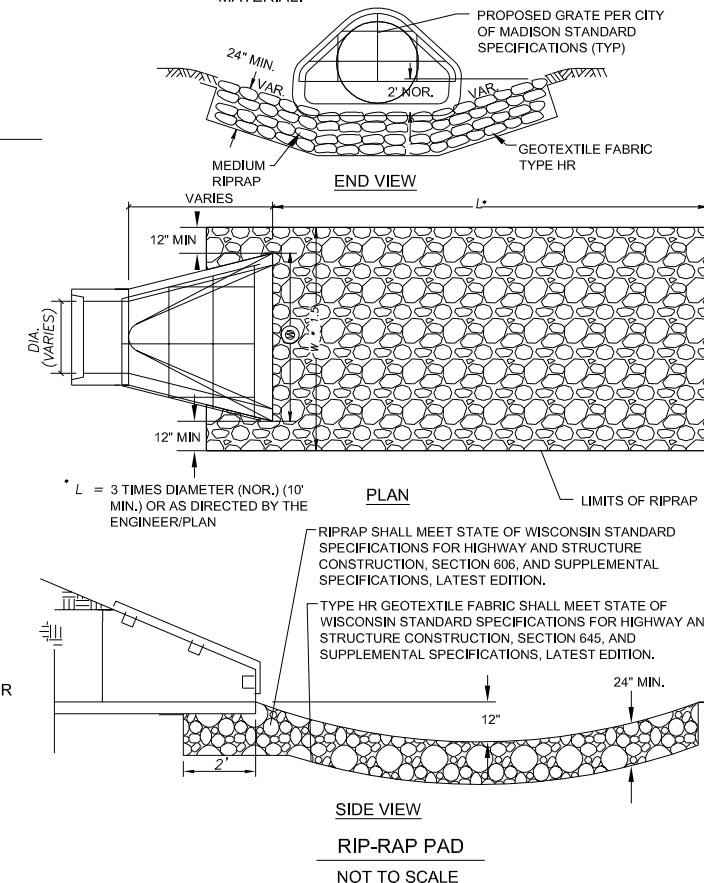
**BIRCHWOOD POINT**

CITY OF MADISON, WISCONSIN

PROPOSED SOUTHEAST DETENTION/INFILTRATION BASIN DETAIL - OUTLOT 10  
 PLAN VIEW

**GENERAL NOTES:**

1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS.
2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN.
3. LENGTHS OF CULVERTS INCLUDE ENDWALLS.
4. CULVERT LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO TYPICAL CROSS SECTION.
5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 100 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 1/2 POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. THE INFILTRATION AREA SHALL BE SEEDED WITH A SEED MIX TOLERANT OF FLUCTUATING WATER CONDITIONS.
6. ENGINEERED SOIL IN INFILTRATION BASIN SHALL BE 70-85% SAND & 15-30% COMPOST
7. SEE APPROVED ENGINEERING PLANS FOR SITE STORM SEWER TYPE, LENGTHS, AND SIZES
8. A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE INFILTRATION BASIN BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.



REGARDLESS OF GRAPHICAL INDICATION - EROSION MATTING SHALL BE EXTENDED A MINIMUM OF 1' UP THE EMBANKMENT OF THE CHANNEL ON BOTH SIDES

HATCHED AREA REPRESENTS CLASS III TYPE B EROSION MATTING

PLACE TOPSOIL, SEED AND CLASS II, TYPE B EROSION MATTING OVER PROPOSED CLASS III, TYPE B MATTING PER CITY OF MADISON STANDARD SPECIFICATIONS

PLACE CLASS III TYPE B EROSION MATTING IN THE BOTTOM OF THE PROPOSED CHANNEL FROM THE SILICON PRAIRIE PIPE OUTLET TO THE POND CONFORMING TO THE CITY OF MADISON STANDARD SPECIFICATIONS. REFER TO THE WISCONSIN DOT PAL FOR ACCEPTABLE MATERIALS. (SEE APPROVED GRADING AND EROSION CONTROL PLAN)

OVER EXCAVATE INFILTRATION BASIN APPROXIMATELY 5 FT OR UNTIL NATIVE SANDY LOAM SOIL LAYER IS MET AND BACK FILL WITH SANDY LOAM OR MORE PERMEABLE SOIL

50' SEPARATION BERM = 1078.00

PROPOSED INFILTRATION BASIN  
 BASIN BOTTOM - 1075.00, AREA = 7,800 SQFT

8" CULVERT INV 1076.00  
 W/RIPRAP PAD

38 LF - 8" ADS N-12 STORM SEWER @ 0.00%

8" CULVERT INV 1076.00  
 W/RIPRAP PAD

150' EMERGENCY OVERFLOW @ 1079.50

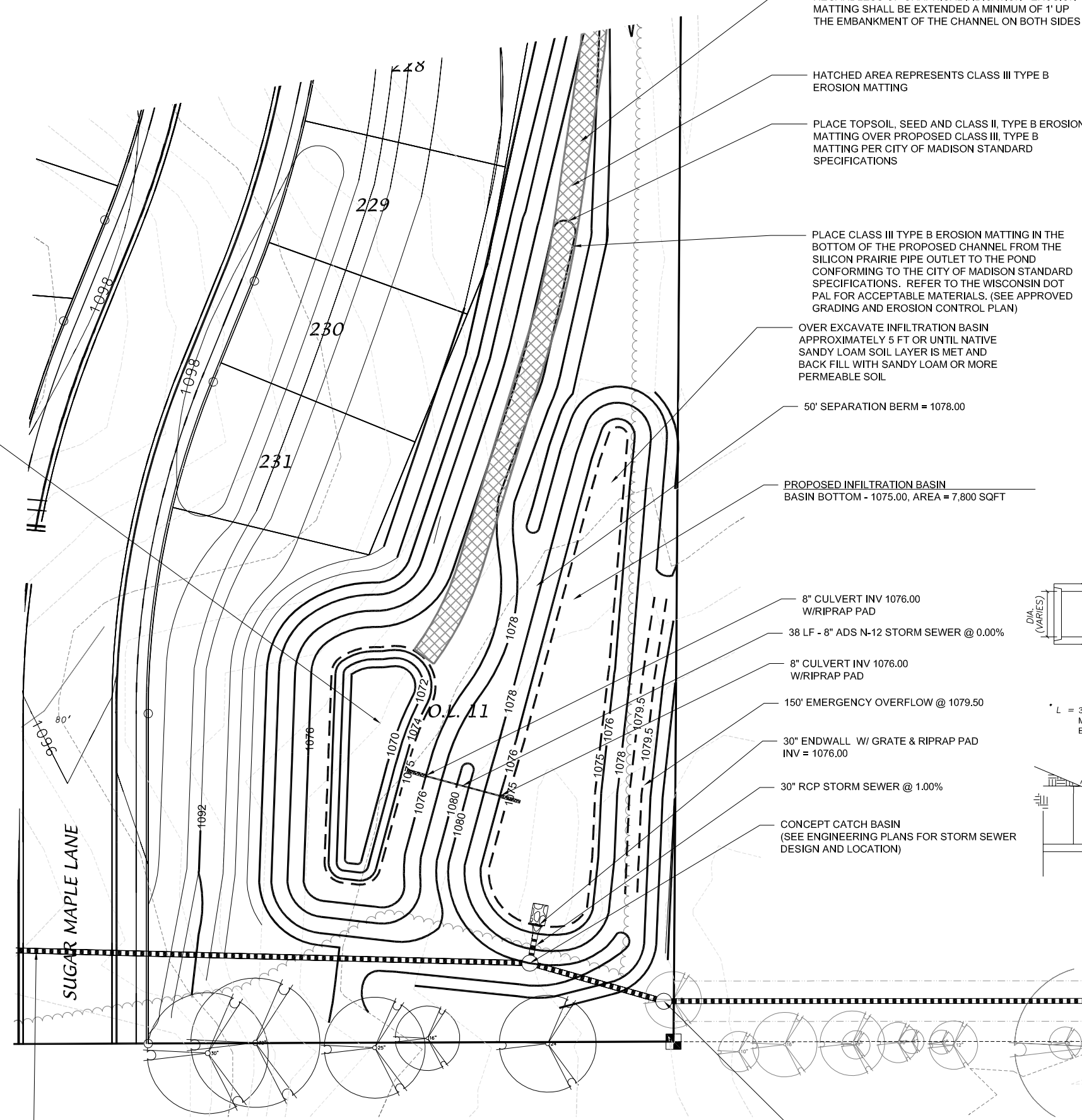
30" ENDWALL W/ GRATE & RIPRAP PAD  
 INV = 1076.00

30" RCP STORM SEWER @ 1.00%

CONCEPT CATCH BASIN  
 (SEE ENGINEERING PLANS FOR STORM SEWER DESIGN AND LOCATION)

CONCEPT CATCH BASIN  
 (SEE ENGINEERING PLANS FOR STORM SEWER DESIGN AND LOCATION)

PROPOSED DETENTION BASIN  
 TOP OF POND BERM - 1080.00  
 TOP OF WET POND/DRY POND BOTTOM - 1076.00  
 BOTTOM OF WET POND W/2' UNDERCUT - 1068.00



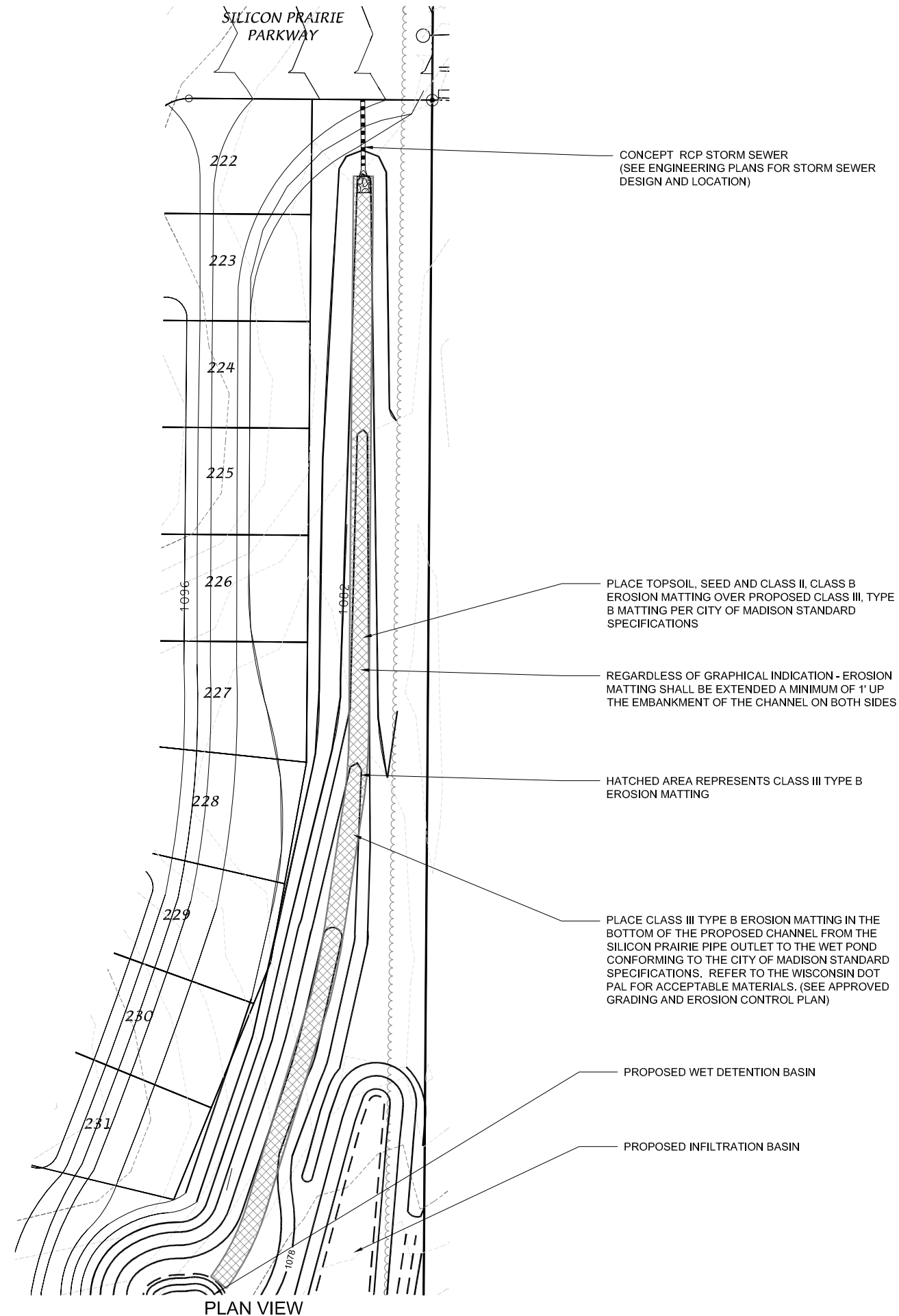
PLAN VIEW

**PROPOSED EAST WET DETENTION/INFILTRATION BASIN DETAIL**



DATE: 03-21-14  
 REVISED:  
 04-03-14 STORM SEWER  
 04-10-14 BOLD TREES

DRAWN BY: GVP  
 FN: 13-05-145  
 Sheet Number:  
 1 OF 3



PROPOSED EAST CHANNEL LEADING TO WET DETENTION/INFILTRATION BASIN DETAIL

GENERAL NOTES:

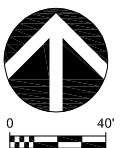
1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS.
2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN.
3. LENGTHS OF CULVERTS INCLUDE ENDWALLS.
4. CULVERT LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO TYPICAL CROSS SECTION.
5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 100 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 1/2 POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. THE INFILTRATION AREA SHALL BE SEEDED WITH A SEED MIX TOLERANT OF FLUCTUATING WATER CONDITIONS.
6. ENGINEERED SOIL IN INFILTRATION BASIN SHALL BE 70-85% SAND & 15-30% COMPOST
7. SEE APPROVED ENGINEERING PLANS FOR SITE STORM SEWER TYPE, LENGTHS, AND SIZES
8. A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE INFILTRATION BASIN BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.  
 7530 Westward Way, Madison, WI 53717  
 Phone: 608.833.7530 • Fax: 608.833.1089  
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

PROPOSED EAST CHANNEL LEADING TO DETENTION BASIN - OUTLOT 10  
 PLAN VIEW

BIRCHWOOD POINT

CITY OF MADISON, WISCONSIN



DATE: 03-27-14

REVISED:

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DRAWN BY: GVP

FN: 13-05-145

Sheet Number:

2 OF 3

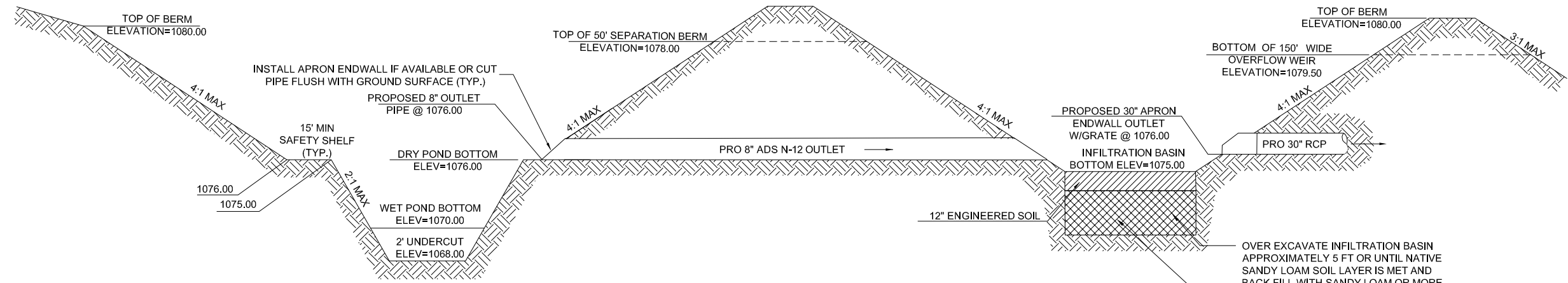


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PROPOSED SOUTHEAST DETENTION/INFILTRATION BASIN DETAIL - OUTLOT 10  
 CROSS SECTION VIEW

**BIRCHWOOD POINT**

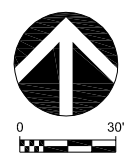
CITY OF MADISON, WISCONSIN



**PROFILE VIEW**

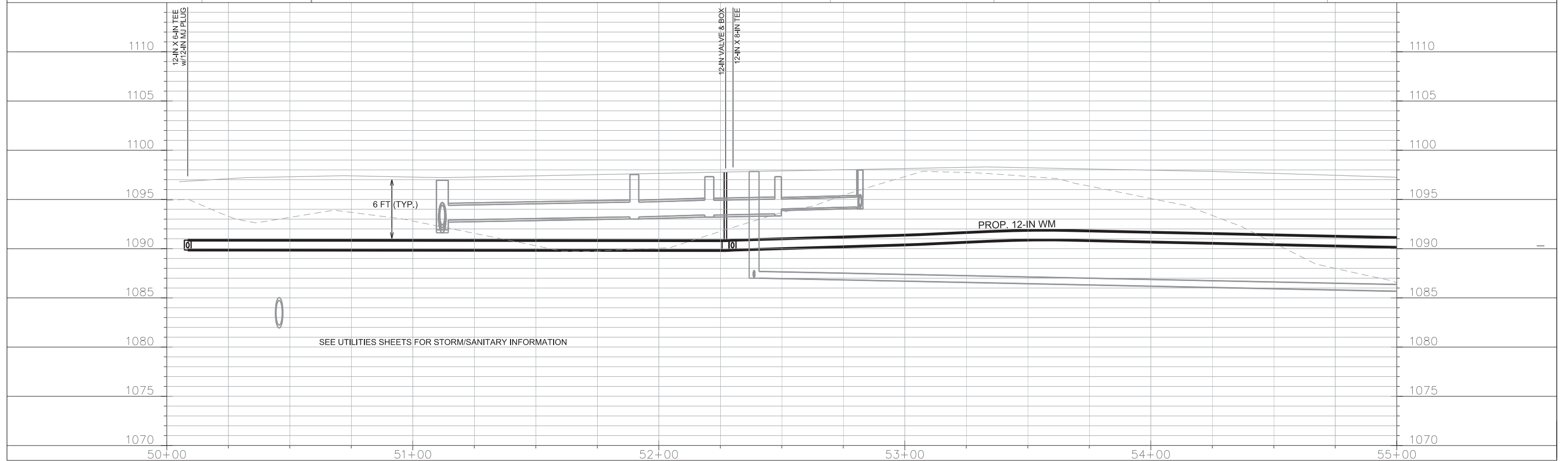
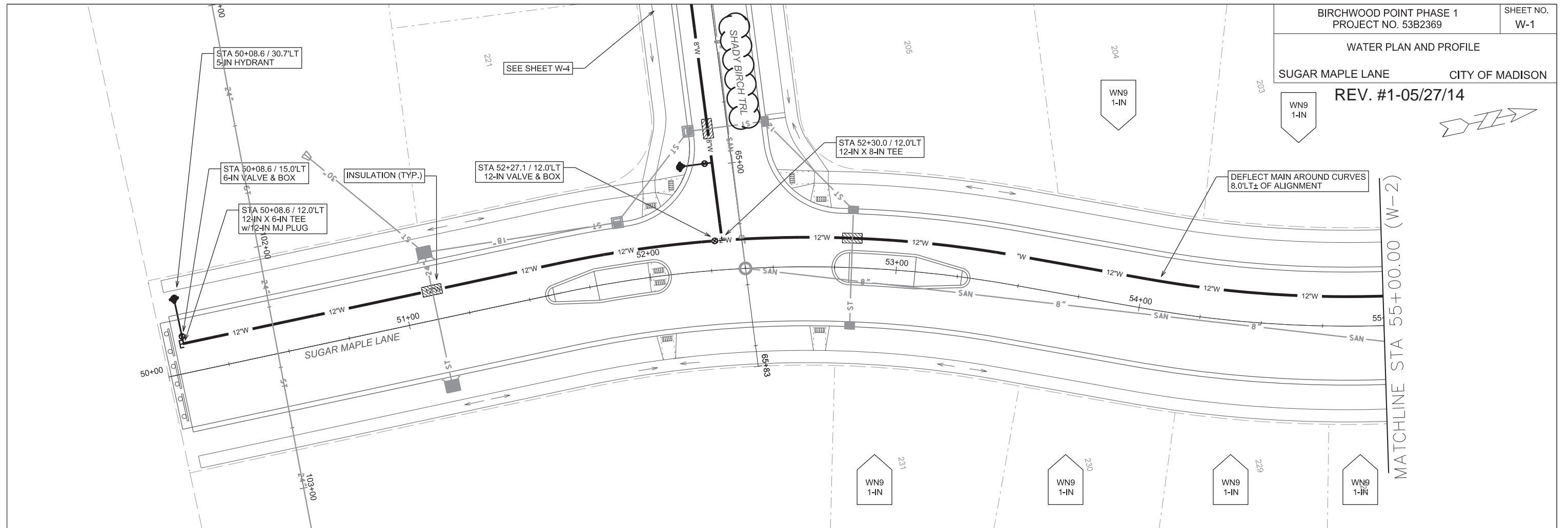
**PROPOSED EAST WET DETENTION/INFILTRATION BASIN DETAIL**  
 NOT TO SCALE

OVER EXCAVATE INFILTRATION BASIN APPROXIMATELY 5 FT OR UNTIL NATIVE SANDY LOAM SOIL LAYER IS MET AND BACK FILL WITH SANDY LOAM OR MORE PERMEABLE SOIL.  
 NOTE: A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE BACKFILL LAYER HAS A MINIMUM INFILTRATION RATE OF 0.5 IN/HR PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.



DATE: 03-21-14  
 REVISED:

DRAWN BY: GVP  
 FN: 13-05-145  
 Sheet Number:  
 3 OF 3



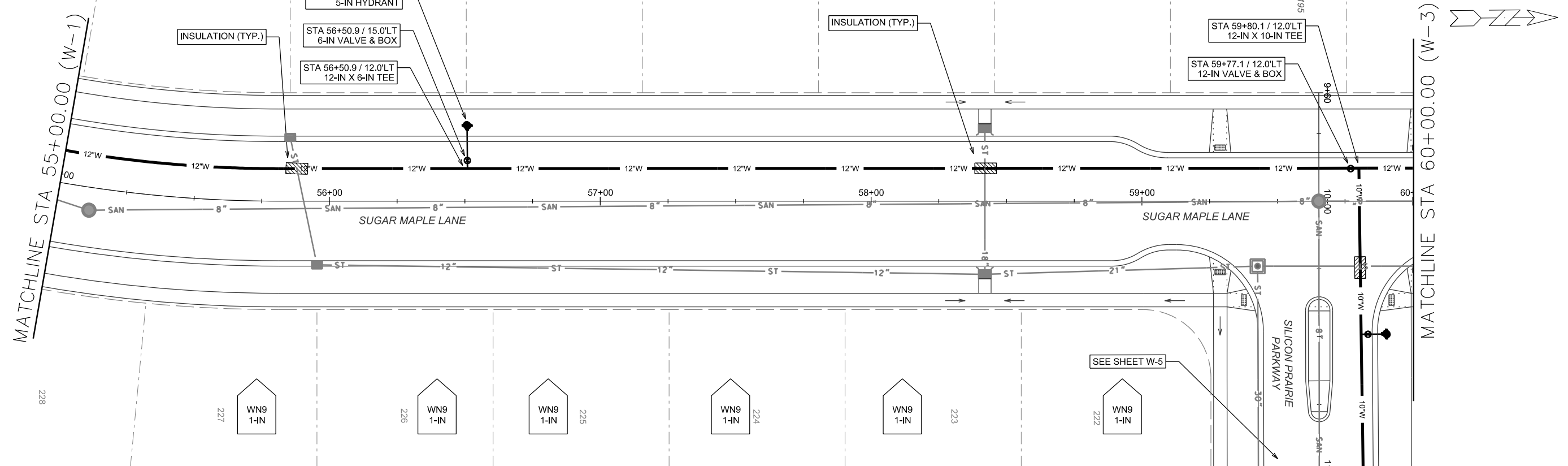
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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
SUGAR MAPLE LANE CITY OF MADISON



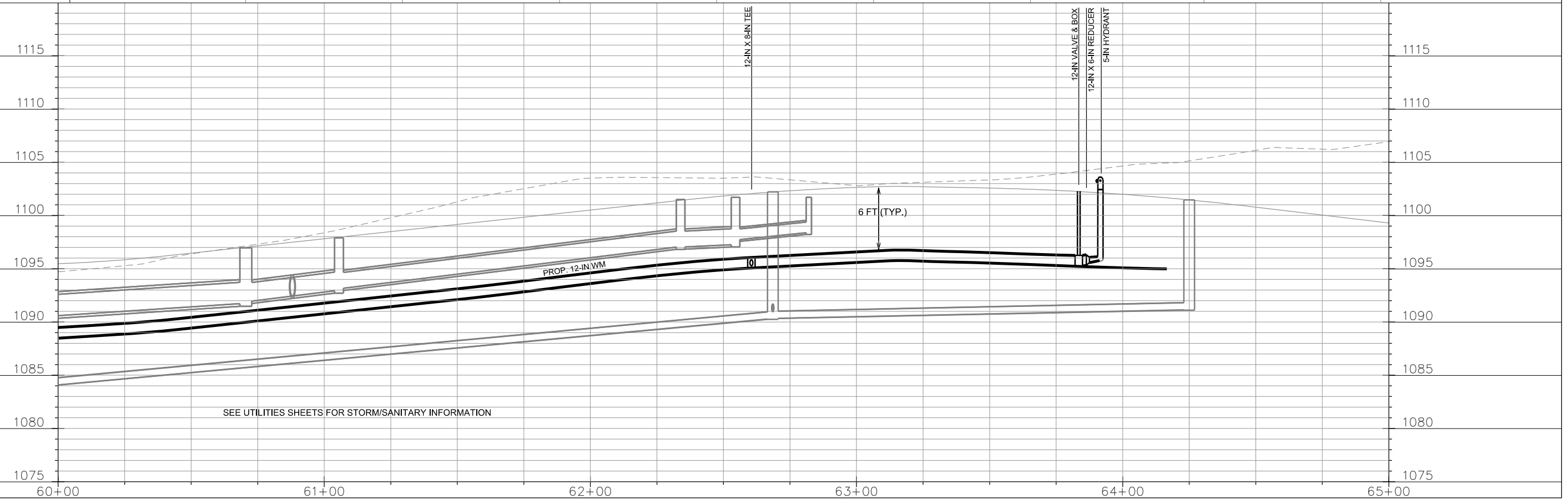
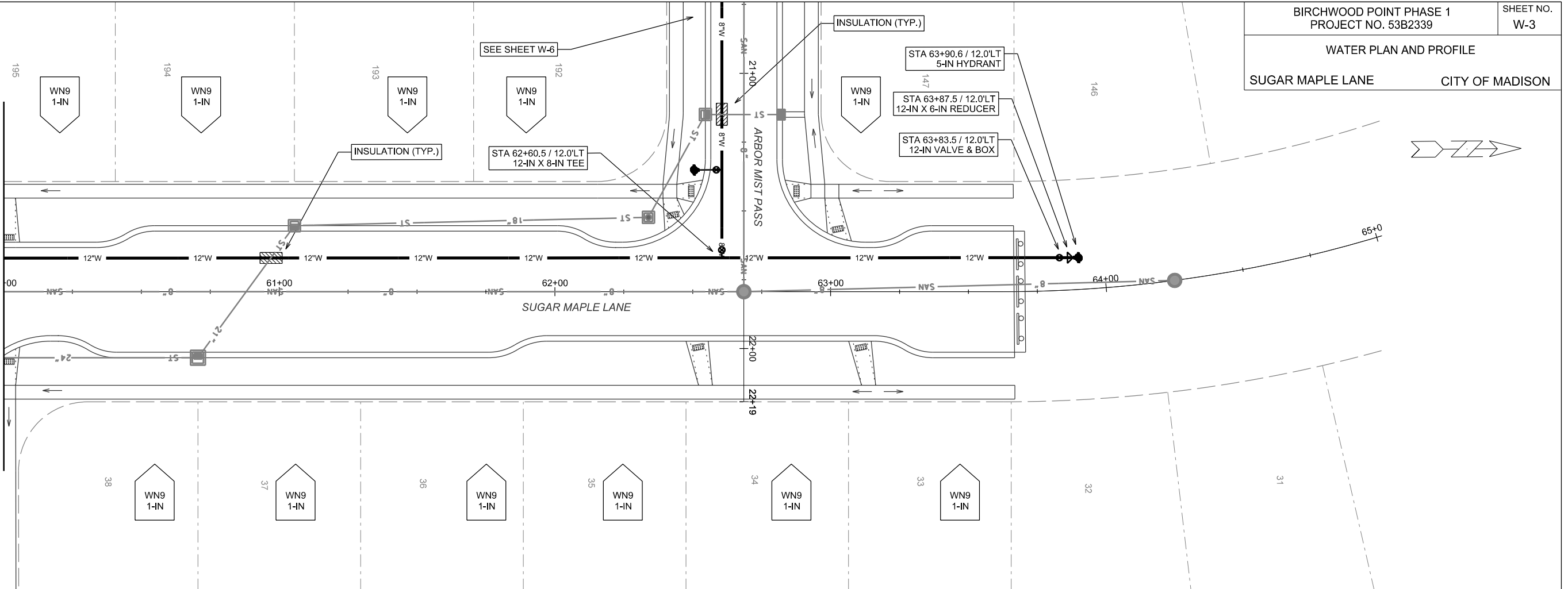
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

MATCHLINE STA 60+00.00 (W-2)

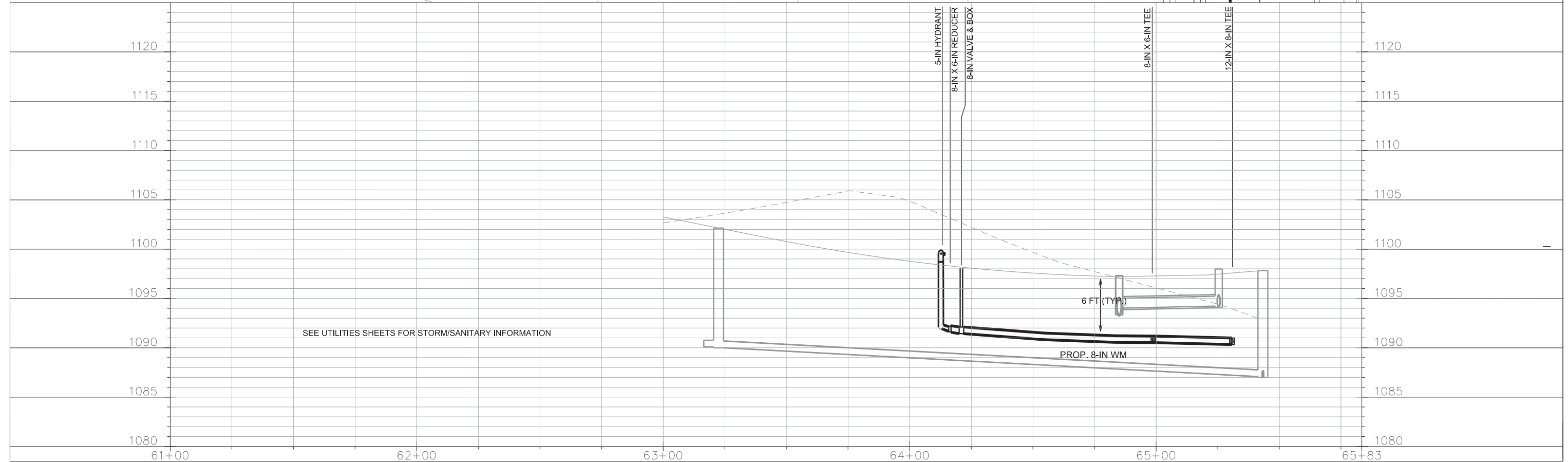
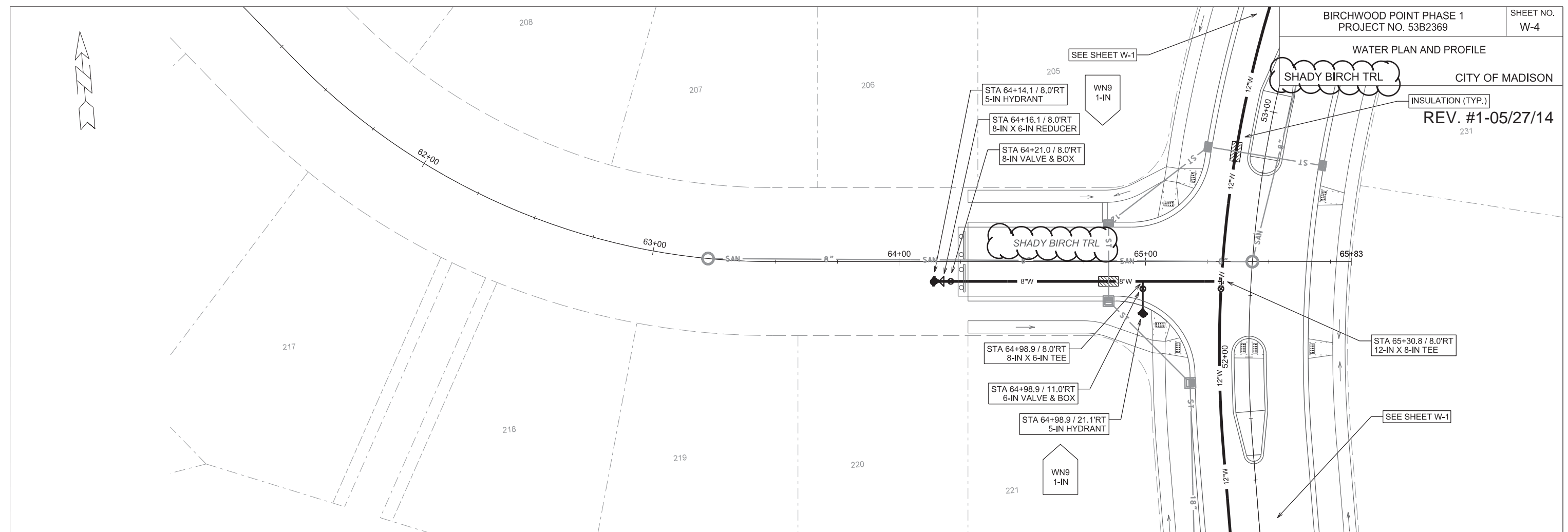


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REV. DATE:  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

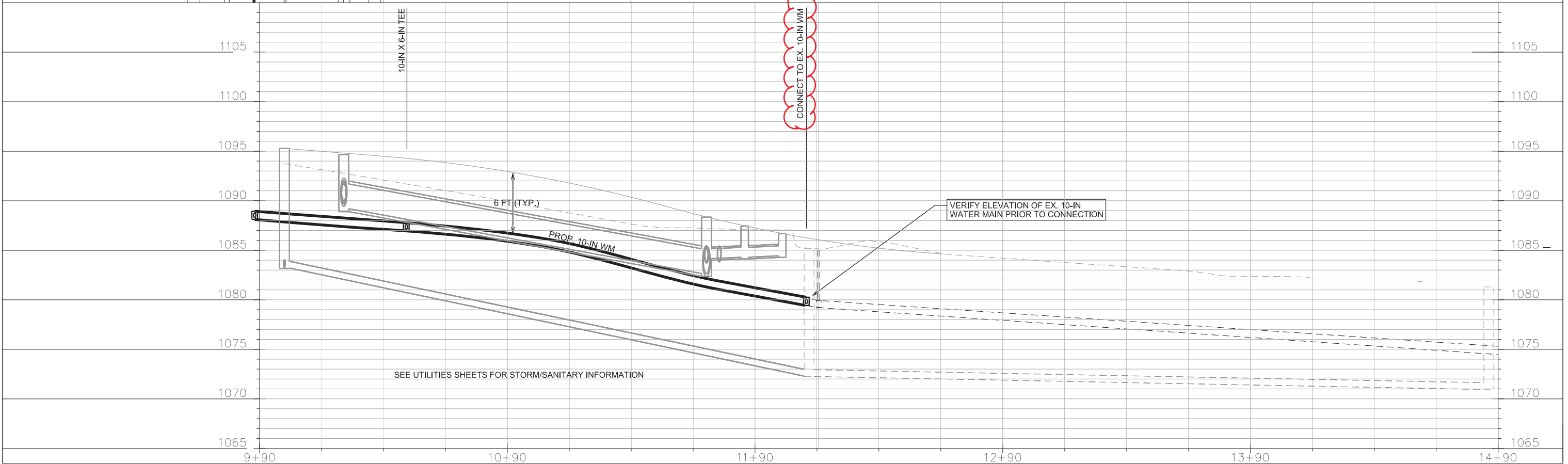
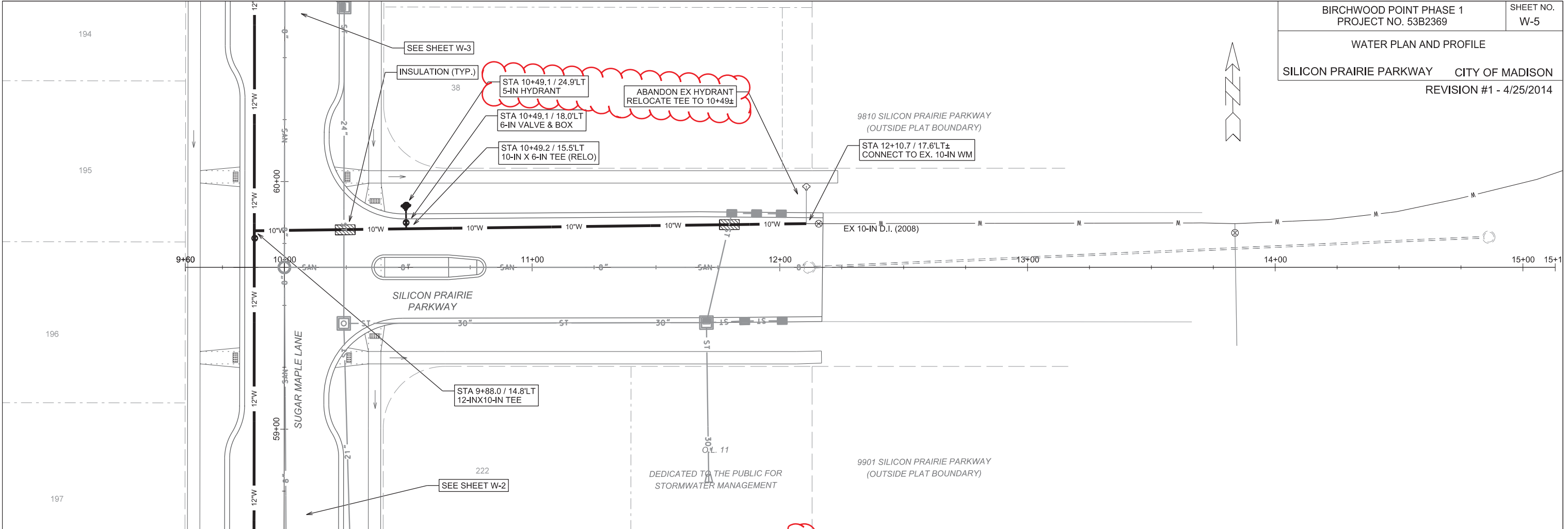
CITY OF MADISON

REV. #1-05/27/14  
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PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION





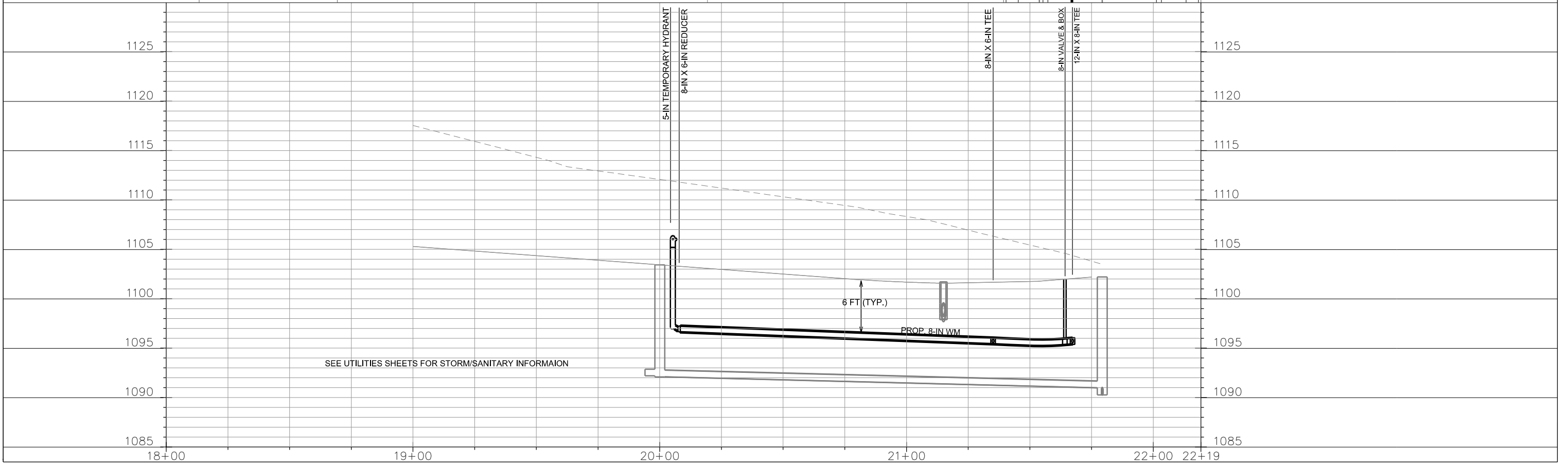
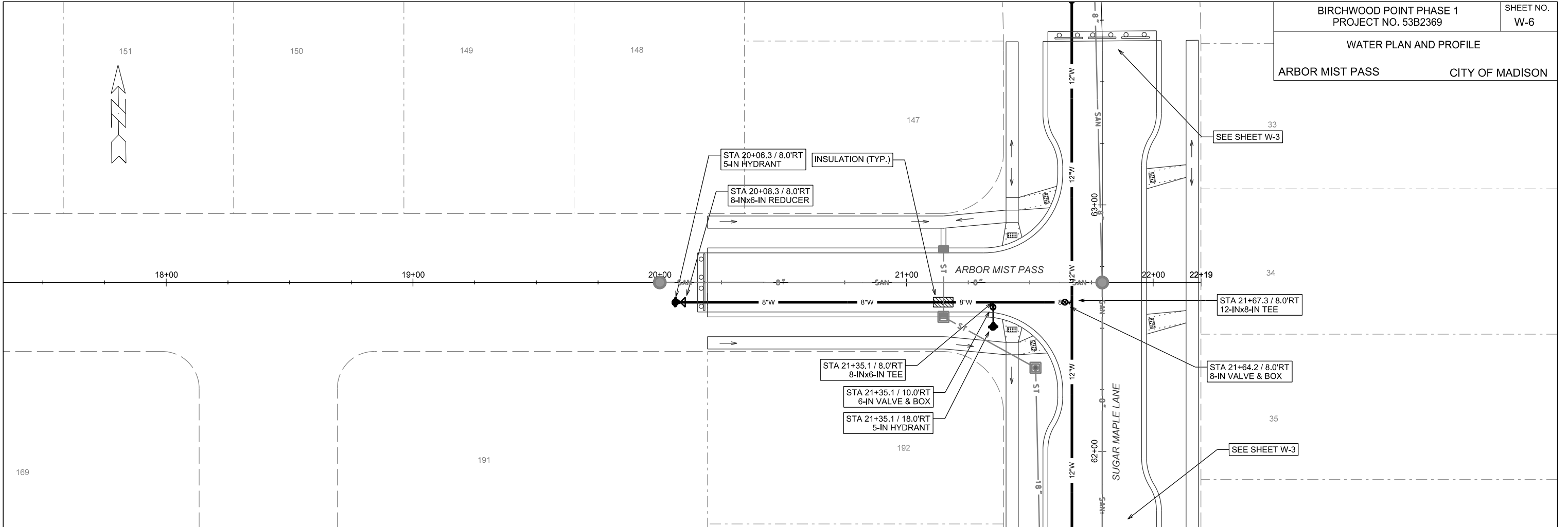
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REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
ARBOR MIST PASS CITY OF MADISON



SEE UTILITIES SHEETS FOR STORM/SANITARY INFORMAION

PLOT SCALE:

PLOT NAME:

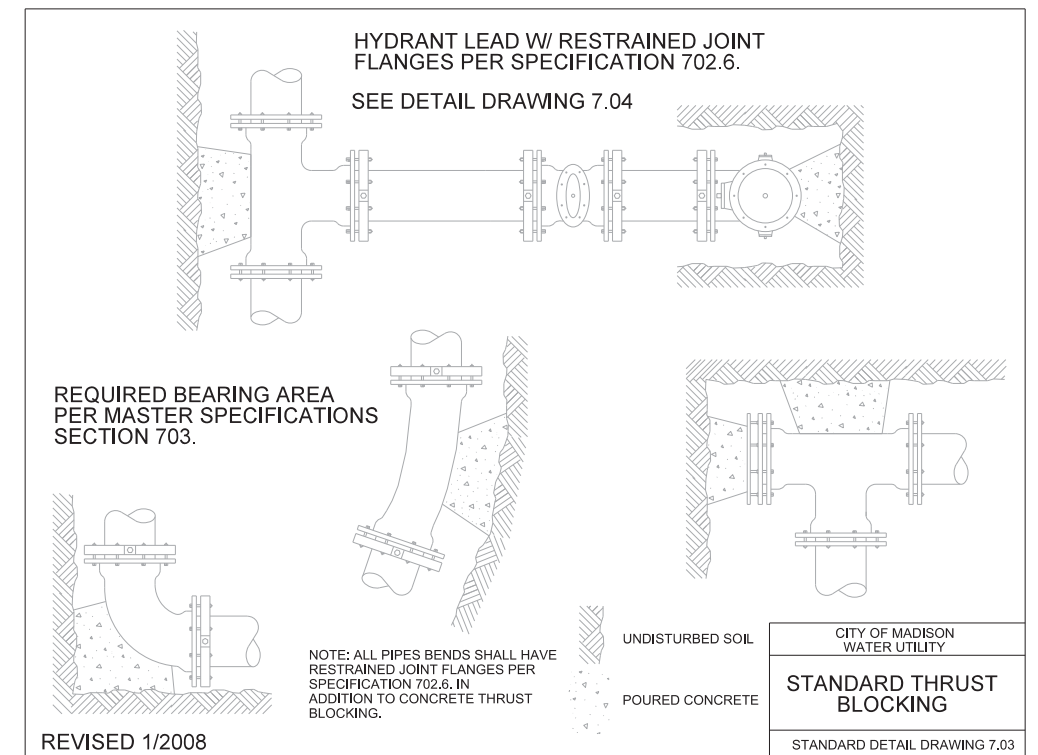
REV. DATE:

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 DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. 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 (OR TO THE LARGER PARALLEL EXISTING 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 (OR TO THE LARGER PARALLEL EXISTING MAIN).
- WN5 - RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 - ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 - FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 - ABANDON THE VALVE BOX.
- WN9 - FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 - REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 - REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE



ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 100' - 6" PIPE
- 300' - 8" PIPE
- 240' - 10" PIPE
- 1960' - POLYWRAP
- 5 - 6" VALVE & BOX
- 2 - 8" VALVE & BOX
- 2 - 8"x6" TEE
- 2 - 8"x6" REDUCER
- 8 - 5" HYDRANT
- 1" COPPER AS REQUIRED
- 1 1/2" COPPER AS REQUIRED
- 2" COPPER AS REQUIRED
- INSULATION AS REQUIRED

ESTIMATE OF MATERIALS SUPPLIED BY WATER UTILITY:

- 1400' - 12" PIPE
- 3 - 12" VALVE & BOX
- 1 - 12"x6" TEE
- 2 - 12"x8" TEE
- 1 - 12"x10" TEE
- 1 - 12" MJ PLUG
- 1 - 12"x6" REDUCER

ESTIMATE OF MATERIALS REUSED:

- 1 - 10" X 6" TEE

