

Madison, Wisconsin

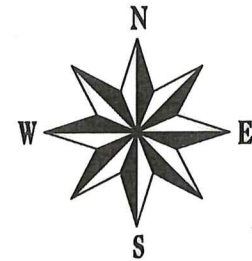
CITY OF MADISON

**CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS**

PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

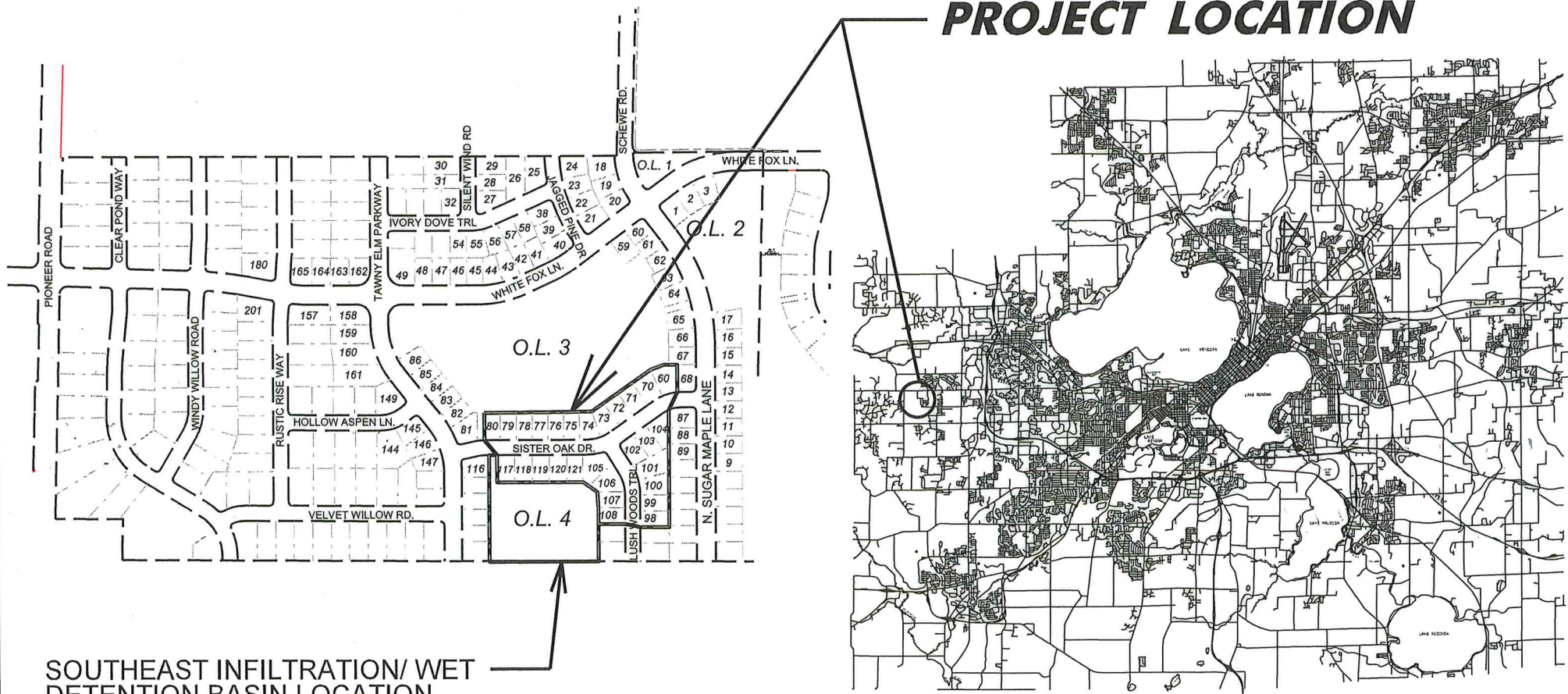
SHEET NO.	STANDARD NOTES AND COMMENTS
D1	TYPICAL SECTION
D2	PLANS & PROFILES
P1-P3	UTILITY PLANS & PROFILES
U1-U3	SANITARY SEWER SCHEDULE
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W5	



EAGLE TRACE: PHASE 3A

**CITY PROJECT NO. 12167
CITY CONTRACT NO. 9394**

PROJECT LOCATION



**SOUTHEAST INFILTRATION/ WET
DETENTION BASIN LOCATION.
(SEE PROJECT NO. 11930)**

**PUBLIC IMPROVEMENT PROJECT
APPROVED**

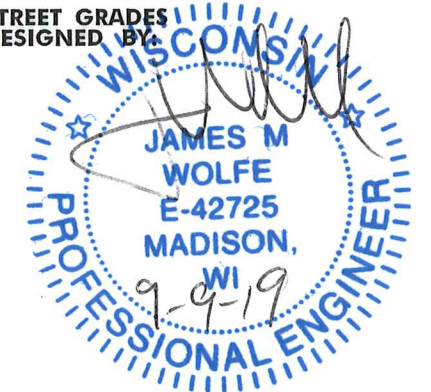
JUNE 18, 2019

**BY THE COMMON COUNCIL
OF MADISON, WISCONSIN**

**PUBLIC IMPROVEMENT DESIGN
APPROVED BY:**

[Signature] **9/11/19**
City Engineer Date

**STREET GRADES
DESIGNED BY:**



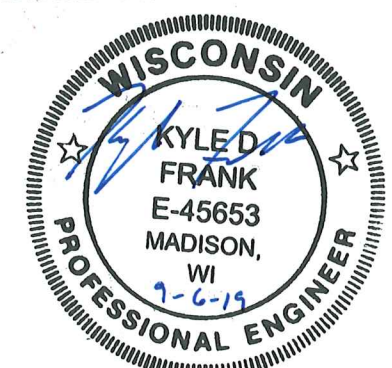
**SANITARY SEWER
DESIGNED BY:**



**WATER
DESIGNED BY:**



**STORM SEWER
DESIGNED BY:**



PLOT SCALE:

PLOT NAME:

REV. DATE:

MADISON, STREETS DIVISION

ORIGINATOR: CI

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 SISTER OAK DRIVE AND LUSH WOODS TRAIL RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED PER STANDARD DETAIL DRAWINGS 4.05 AND 5.7.14. ALL UNDERDRAIN SHALL BE WRAPPED.

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

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADE 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 STANDARD DETAIL DRAWING 3.04. 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 4:1. 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 ALIGNMENTS FROM THE CITY PROJECT 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.

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** 

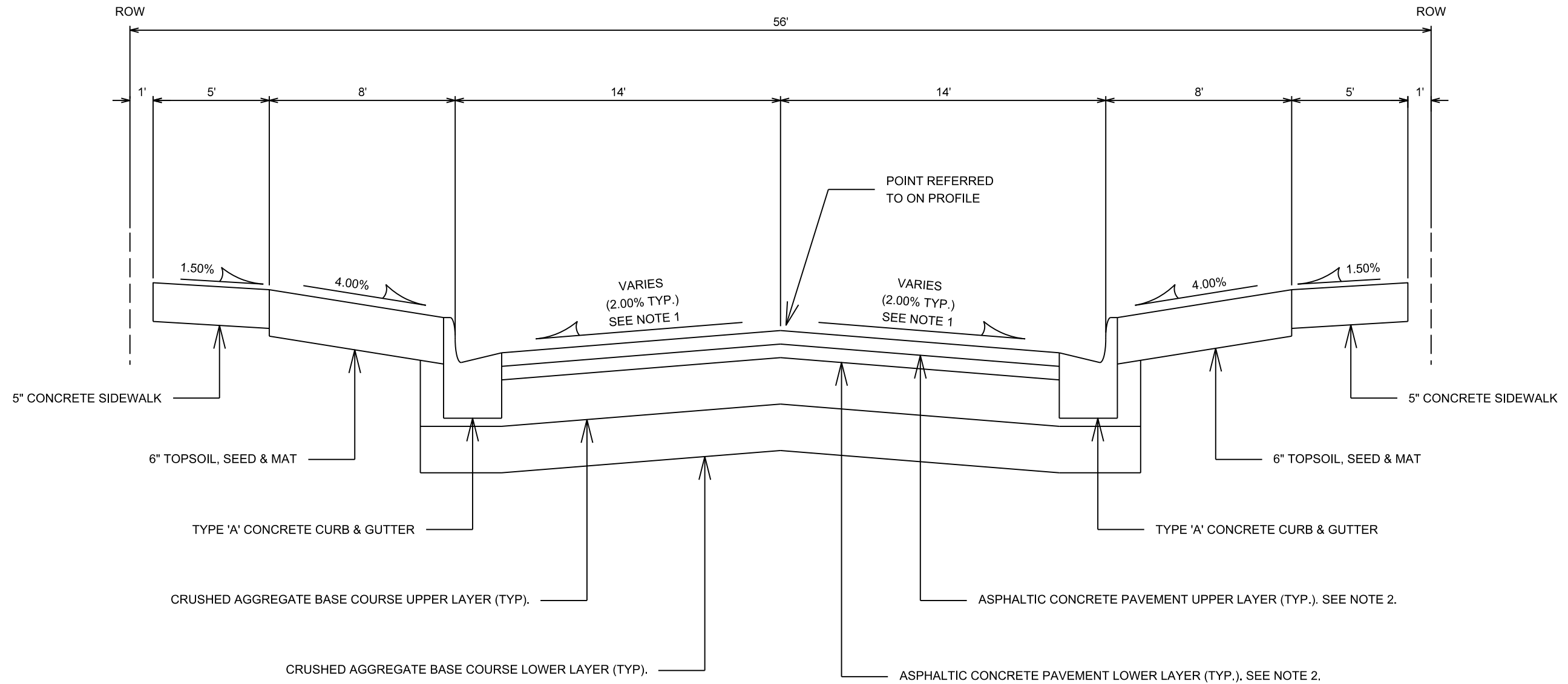
COMBUSTIBLE FLUIDS 

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTIONS

SISTER OAK DRIVE (SEE NOTE 3)
LUSH WOODS TRAIL (SEE NOTE 3)

NOT TO SCALE

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"

SPECIAL NOTES:

- SEE PLAN & PROFILE "P" SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.
- SISTER OAK DRIVE & LUSH WOODS TRAIL SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.
- SURFACE PAVING SHALL BE COMPLETED UNDER A CITY RESURFACING CONTRACT.

PLOT SCALE:

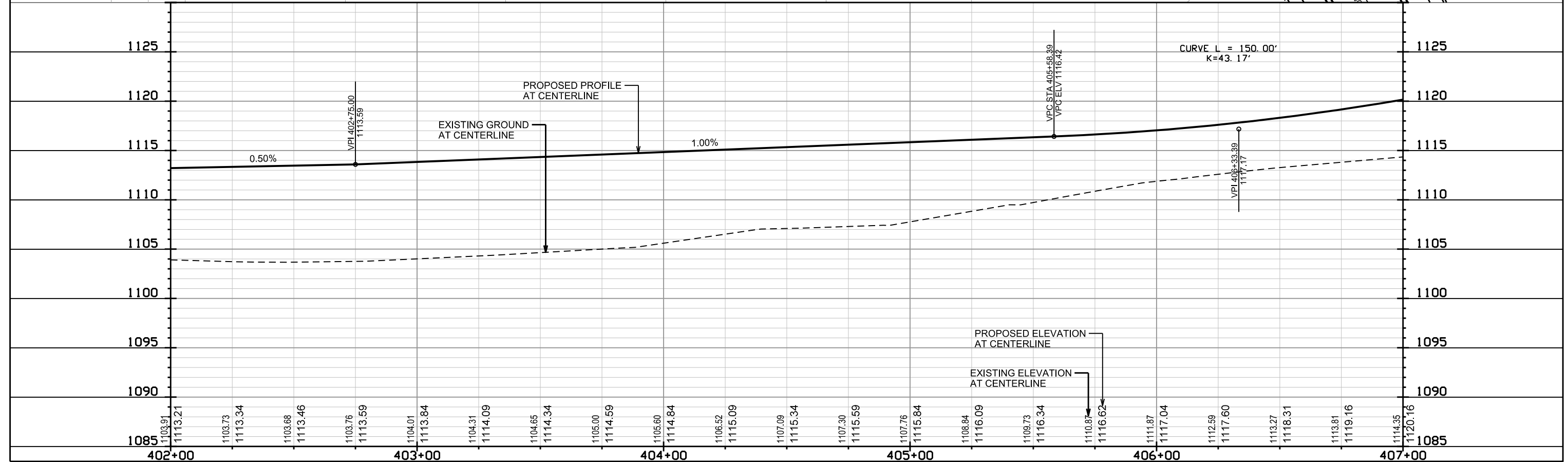
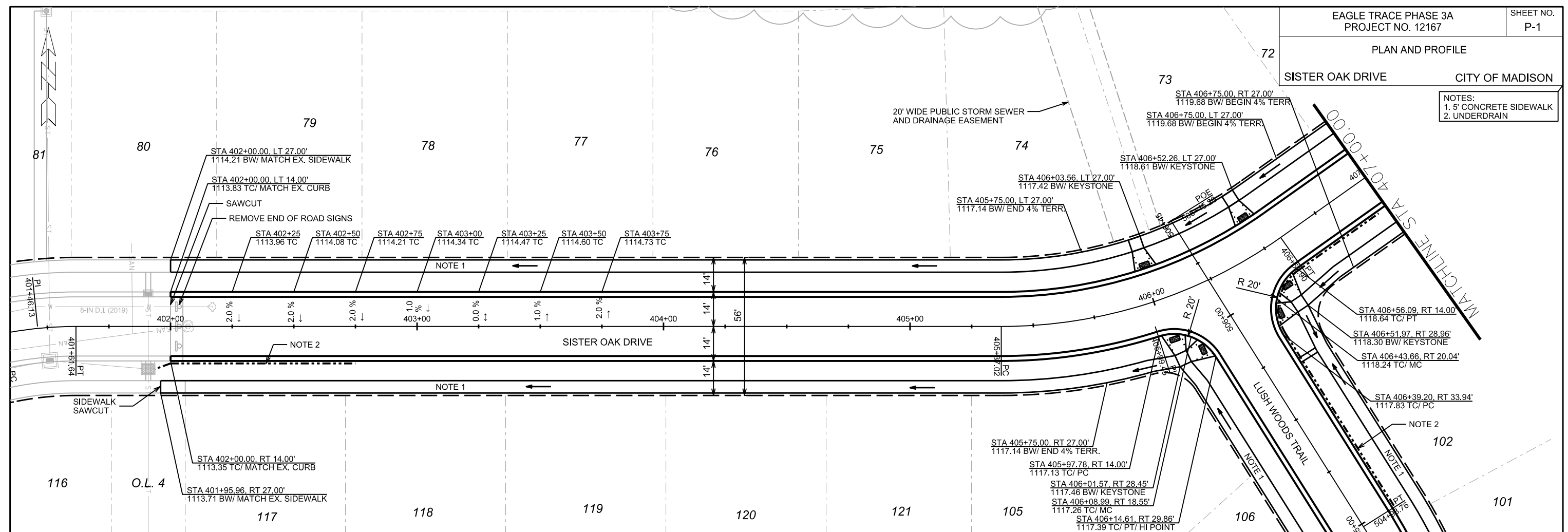
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

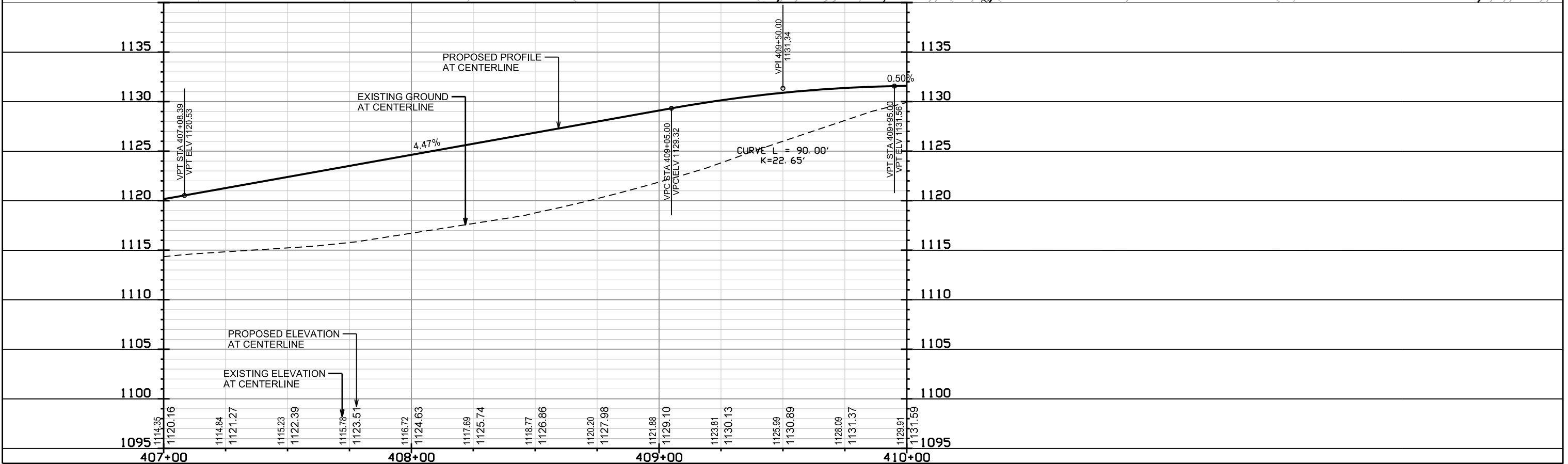
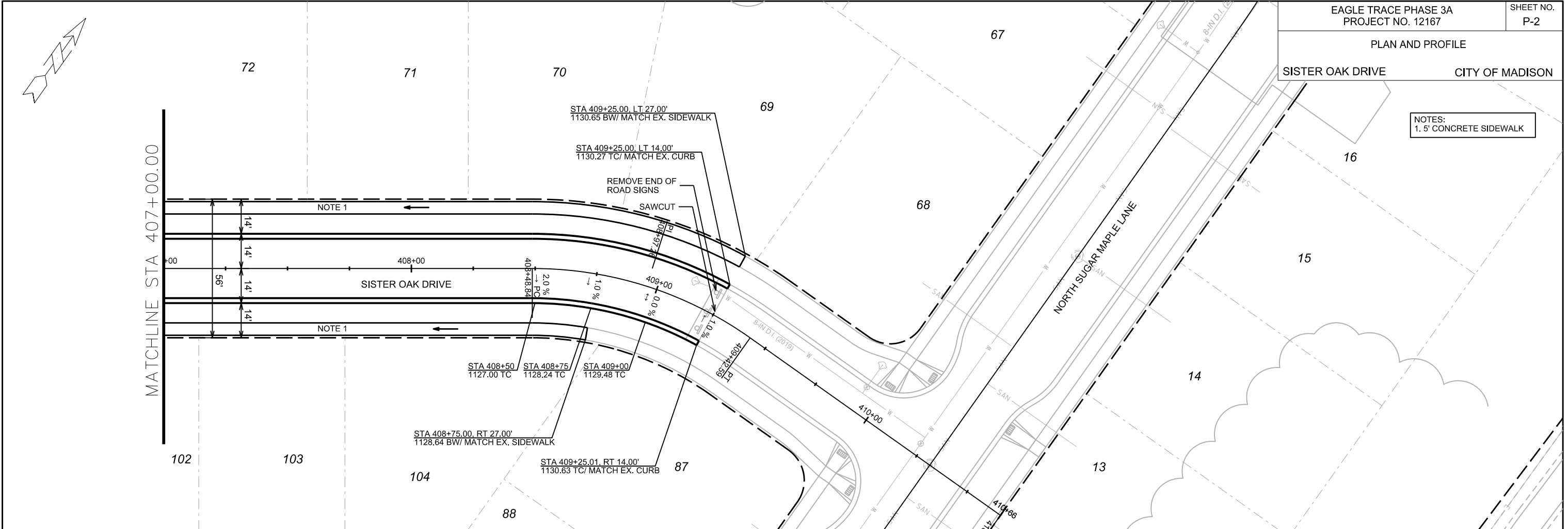
PLAN AND PROFILE
SISTER OAK DRIVE CITY OF MADISON

NOTES:
1. 5' CONCRETE SIDEWALK
2. UNDERDRAIN



PLAN AND PROFILE
SISTER OAK DRIVE CITY OF MADISON

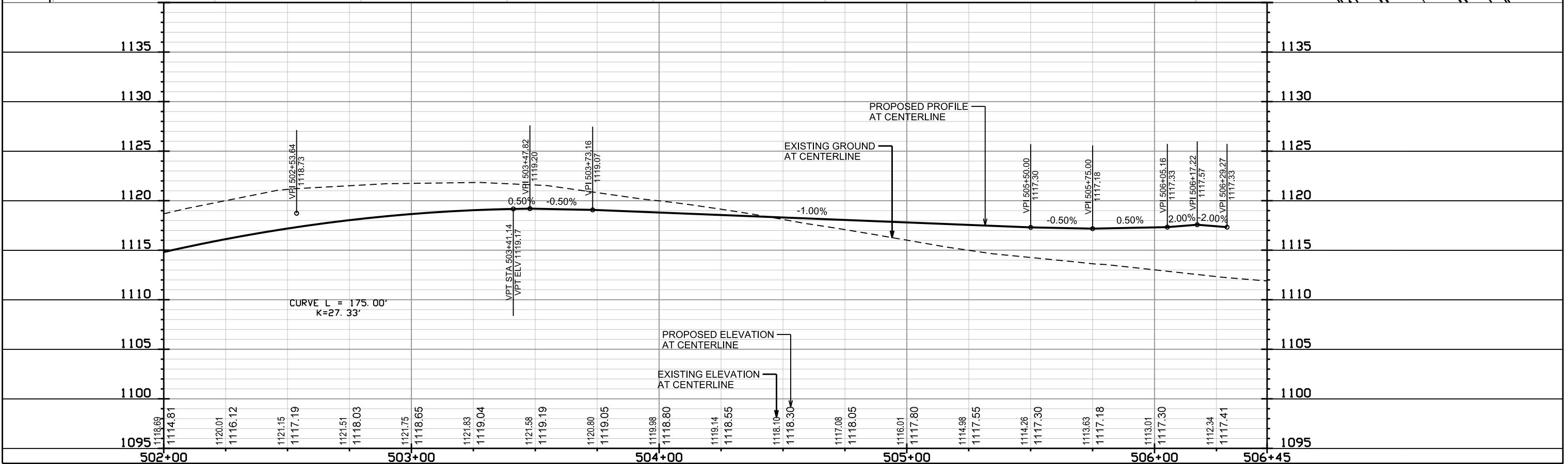
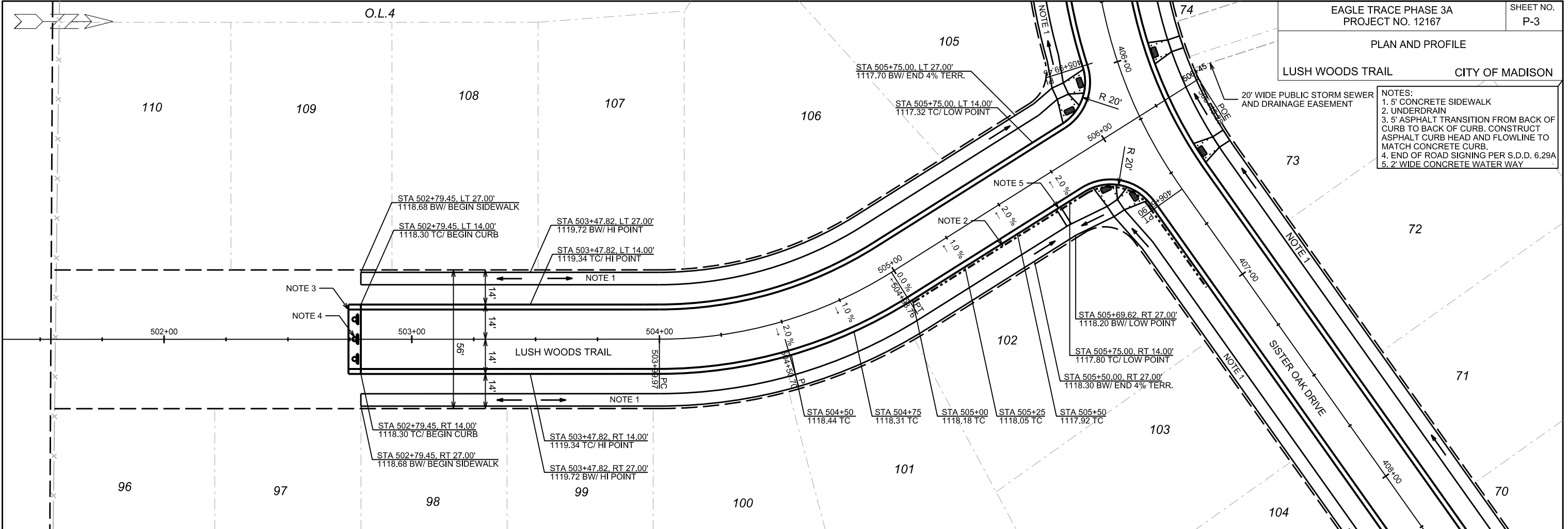
NOTES:
1. 5' CONCRETE SIDEWALK



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

PLAN AND PROFILE
LUSH WOODS TRAIL CITY OF MADISON

- NOTES:
1. 5' CONCRETE SIDEWALK
2. UNDERDRAIN
3. 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
4. END OF ROAD SIGNING PER S.D.D. 6.29A
5. 2' WIDE CONCRETE WATER WAY

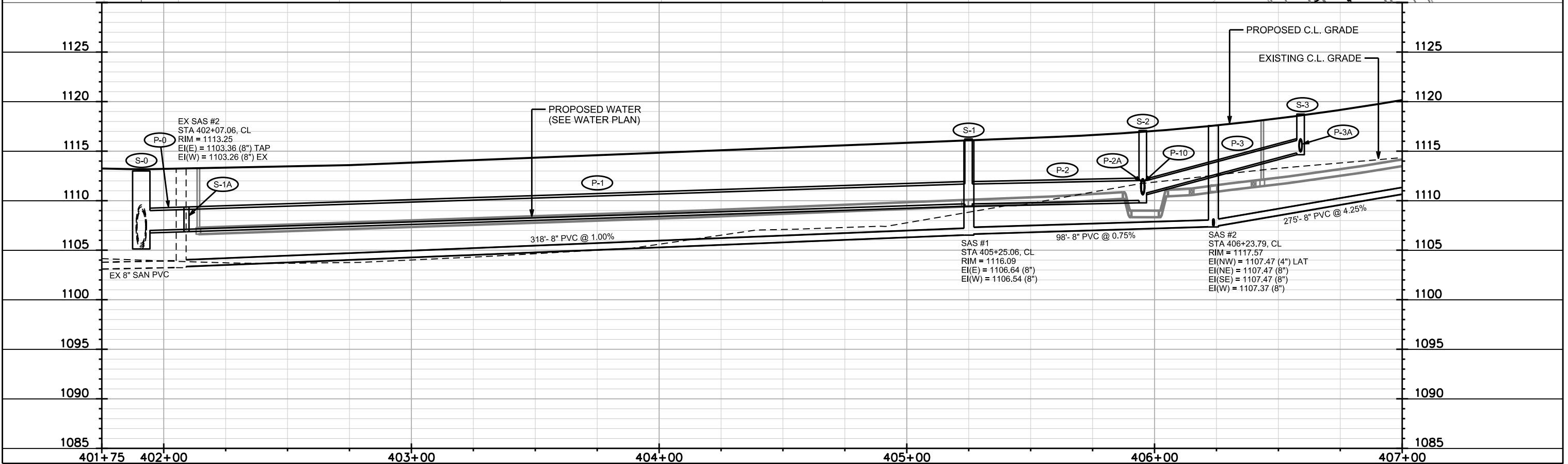
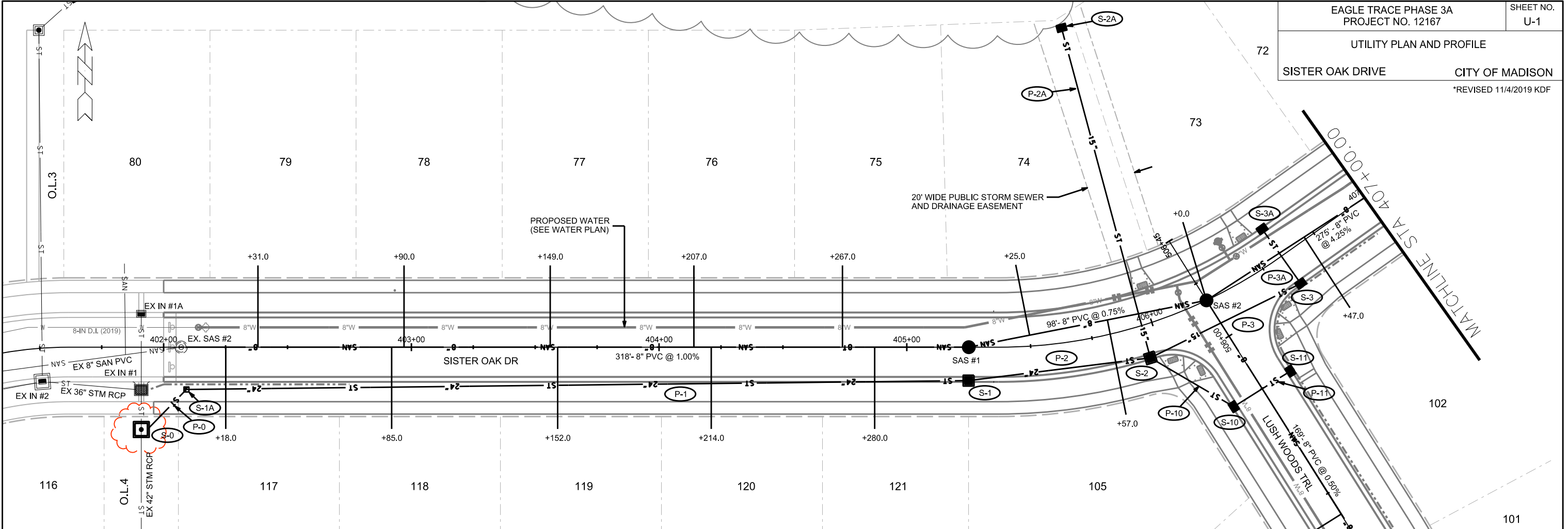


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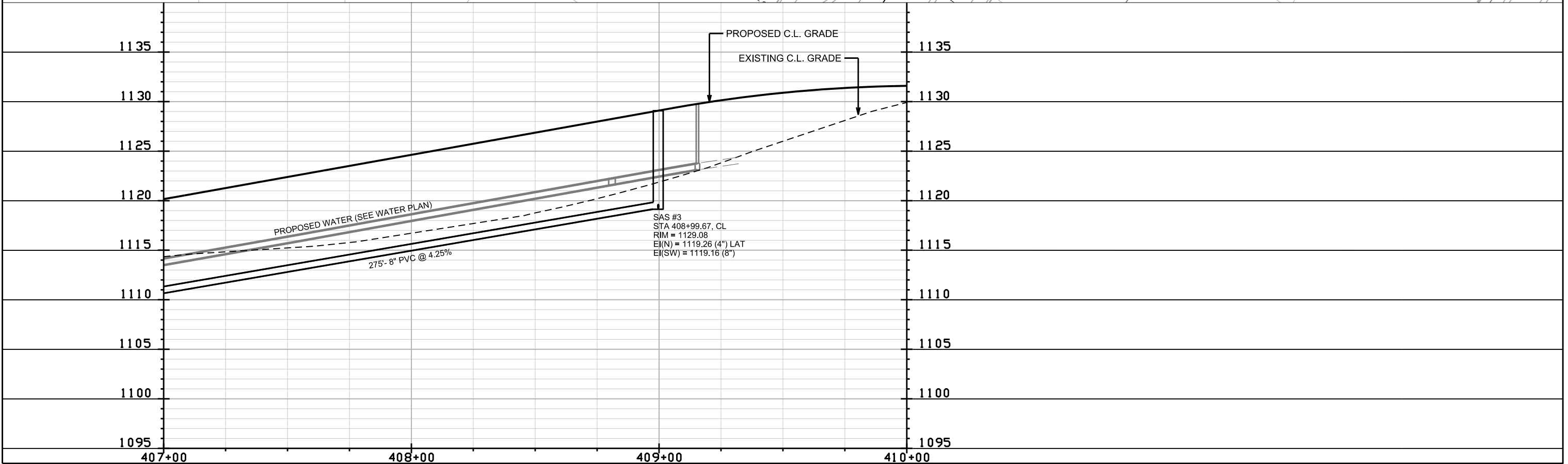
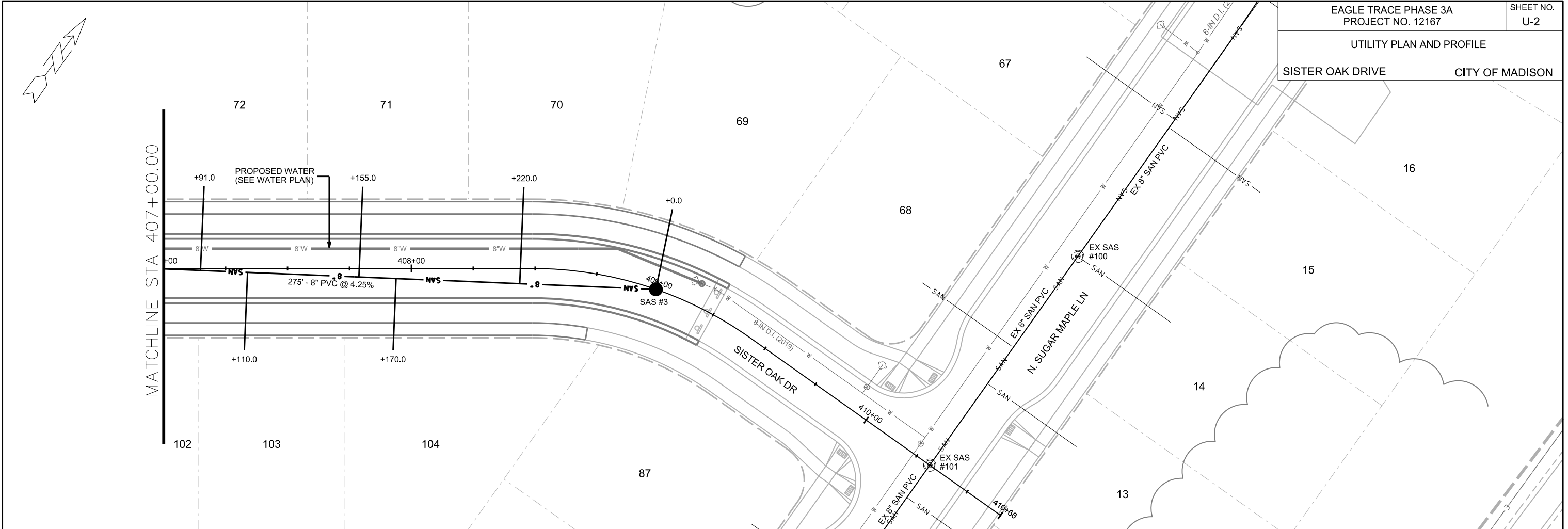
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REV. DATE:

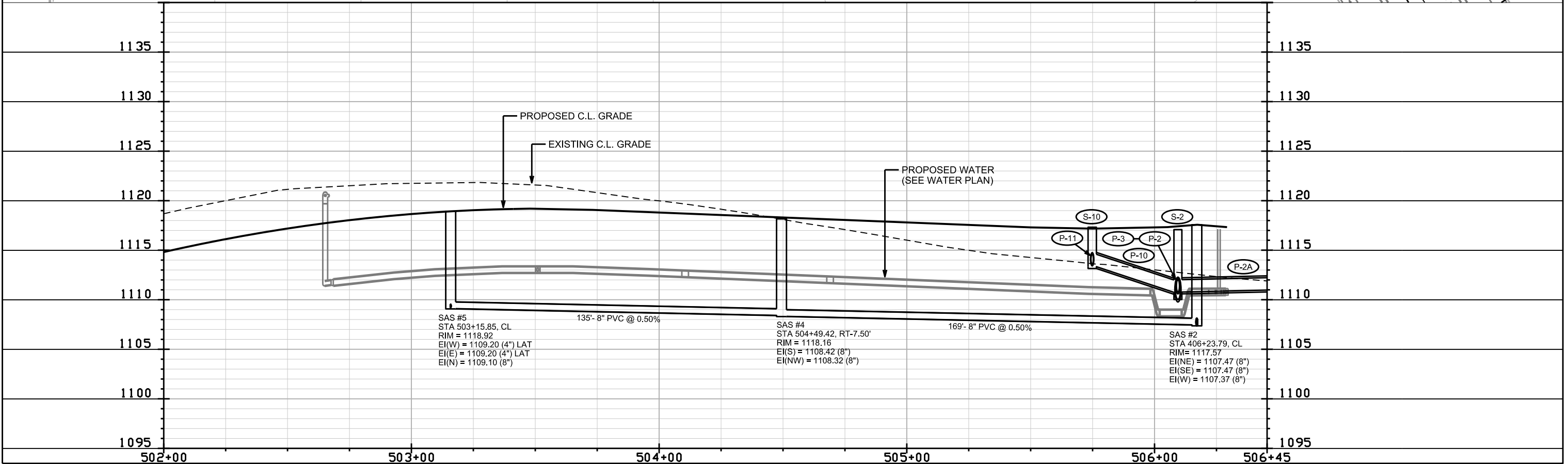
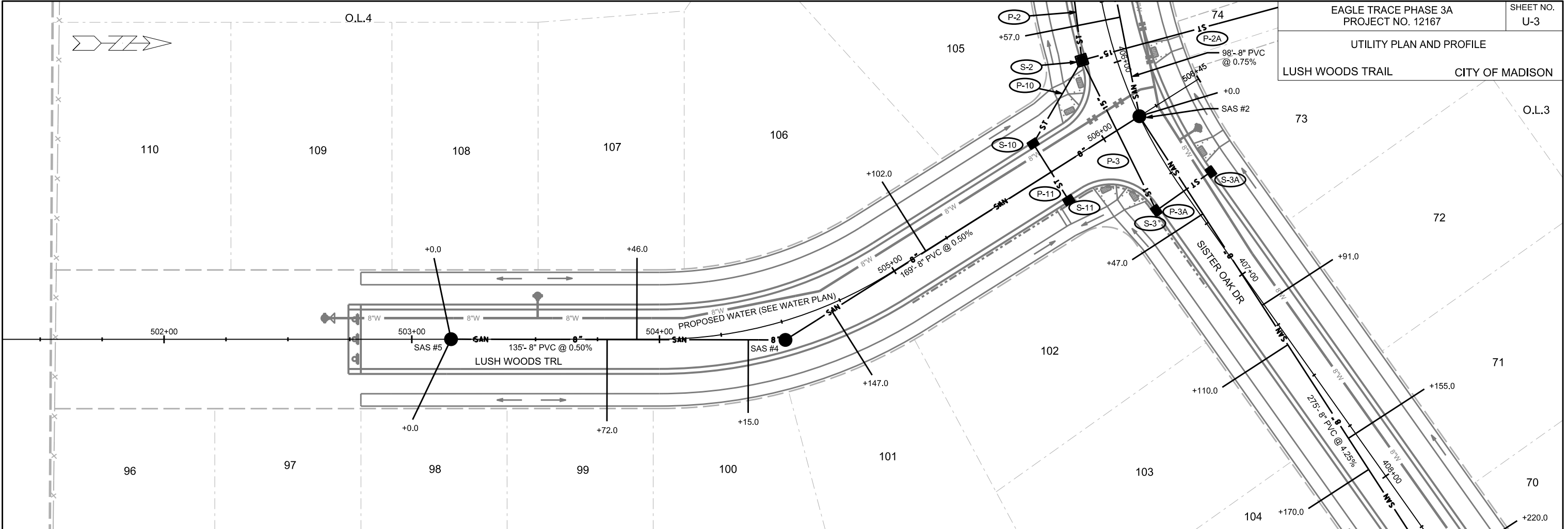
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

EAGLE TRACE PHASE 3A
PROJECT NO. 12167

SHEET NO.
U-4

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SISTER OAK DR						
SAS #1	405+25.06	CL	1116.09	1106.54	9.55	-
SAS #2	406+23.79	CL	1117.57	1107.37	10.20	-
SAS #3	408+99.67	CL	1129.09	1119.16	9.93	-
LUSH WOODS PL						
SAS #4	504+49.42	RT-7.50	1118.16	1108.32	9.84	-
SAS #5	503+15.85	CL	1118.92	1109.10	9.82	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
SISTER OAK DR								
EX SAS #2	SAS #1	1103.36	1106.54	318	1.00%	8"	SDR-35	-
SAS #1	SAS #2	1106.64	1107.37	98	0.75%	8"	SDR-35	-
SAS #2	SAS #3	1107.47	1119.16	275	4.25%	8"	SDR-35	-
LUSH WOODS PL								
SAS #2	SAS #4	1107.47	1108.32	169	0.50%	8"	SDR-35	-
SAS #4	SAS #5	1108.42	1109.10	135	0.50%	8"	SDR-35	-

SPECIFIC NOTES

STORM SEWER SCHEDULE

*REVISED 11/4/2019 KDF

EAGLE TRACE PHASE 3A
PROJECT NO. 12167

SHEET NO.
U-5

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
SISTER OAK DR							
* S-0	401+90.95	RT-33.25	5X5 SAS	1113.00	1105.50	7.50	FP, W/R-3067-7004-V
S-1A	405+24.93	RT-13.50	45-DEG BEND	-	1107.18	-	-
S-1	405+24.93	RT-13.50	3X3 SAS	1116.23	1109.68	6.55	W/R-3067-7004-V
S-2	405+95.25	RT-13.50	3X3 SAS	1117.08	1110.03	7.05	W/R-3067-7004-V
* S-2A	406+08.09	LT-124.27	2X3 SAS	1114.00	1111.50	2.50	FP, W/R-2560-D7
S-3	406+58.95	RT-13.50	H INLET	1118.74	1114.83	3.91	UD, W/R-3067-7004-V
S-3A	406+58.95	LT-13.50	H INLET	1118.74	1115.33	3.41	W/R-3067-7004-V
LUSH WOODS TRL							
S-10	505+74.83	LT-13.50	H INLET	1117.32	1113.34	3.98	[1], LP, W/R-3067-7004-VB
S-11	505+74.83	RT-13.50	H INLET	1117.80	1113.84	3.96	[1], LP, UD, W/R-3067-7004-VB

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
SISTER OAK DR										
P-0	S-0	S-1A	1107.00	1107.18	26	22.6	0.80%	24"	TYPE II	-
P-1	S-1A	S-1	1107.18	1109.68	316	314.2	0.80%	24"	TYPE II	-
P-2	S-1	S-2	1109.68	1110.03	74	71	0.50%	24"	TYPE II	-
P-2A	S-2	S-2A	1110.78	1111.50	138	135.5	0.53%	15"	RCP	-
P-3	S-2	S-3	1110.78	1114.83	68	64.7	6.25%	15"	RCP	-
P-3A	S-3	S-3A	1115.08	1115.33	27	25	1.00%	12"	RCP	-
LUSH WOODS TRL										
P-10	S-2	S-10	1110.78	1113.34	39	35.3	7.25%	15"	TYPE II	-
P-11	S-10	S-11	1113.59	1113.84	27	25	1.00%	12"	RCP	-

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

STANDARD NOTES:

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

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

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

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.

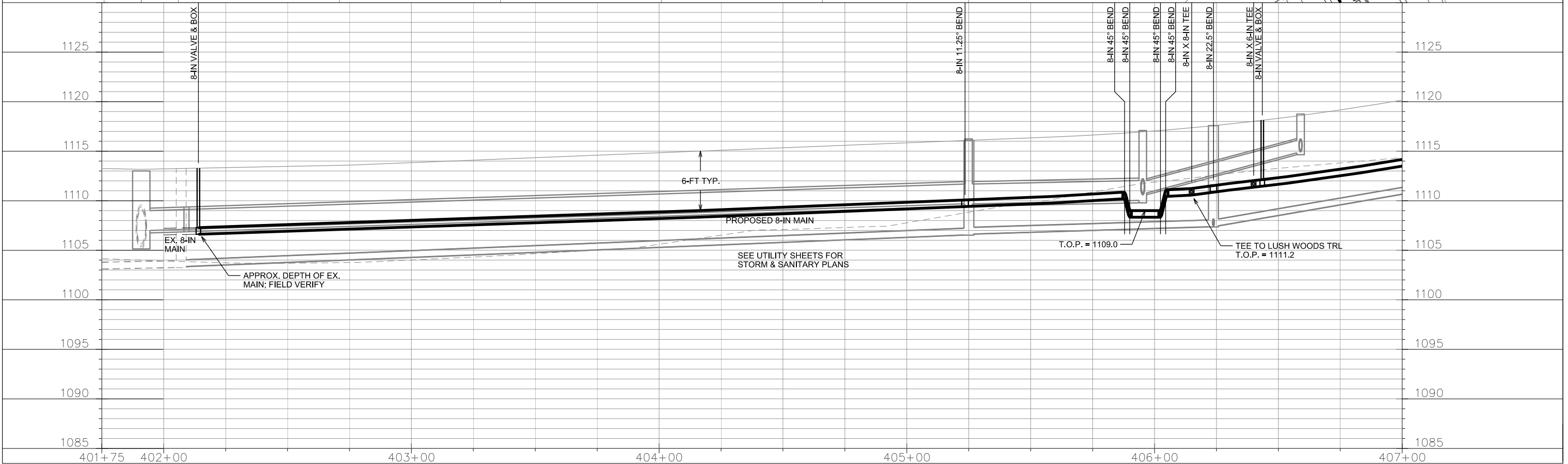
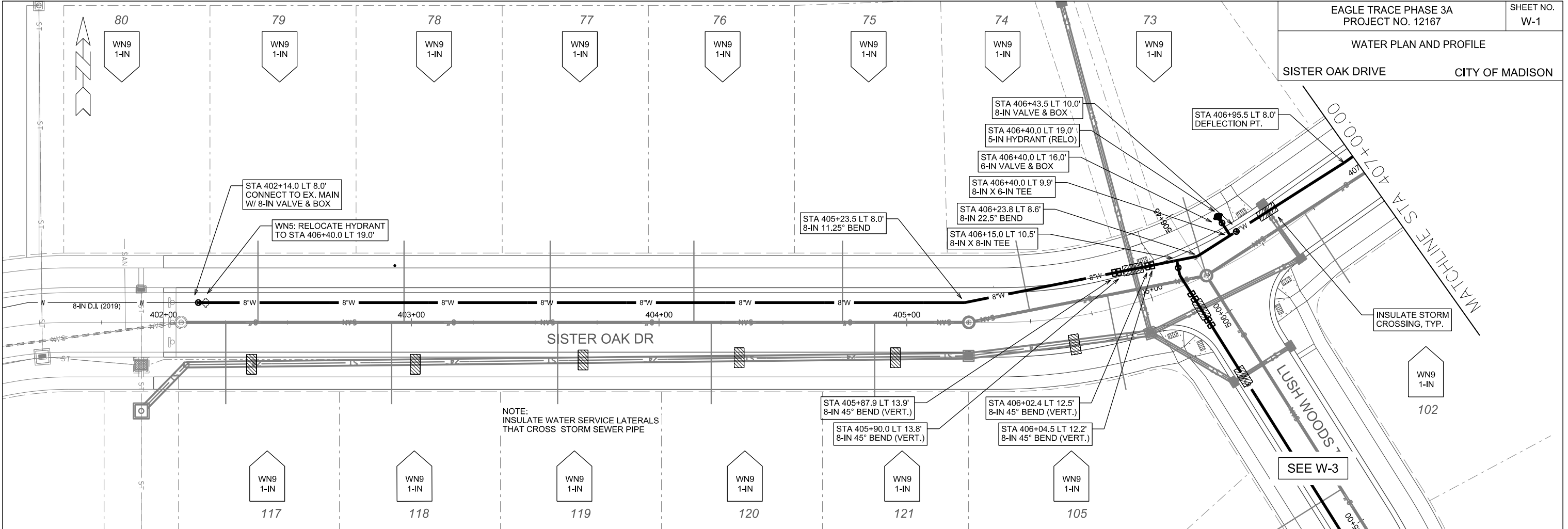
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

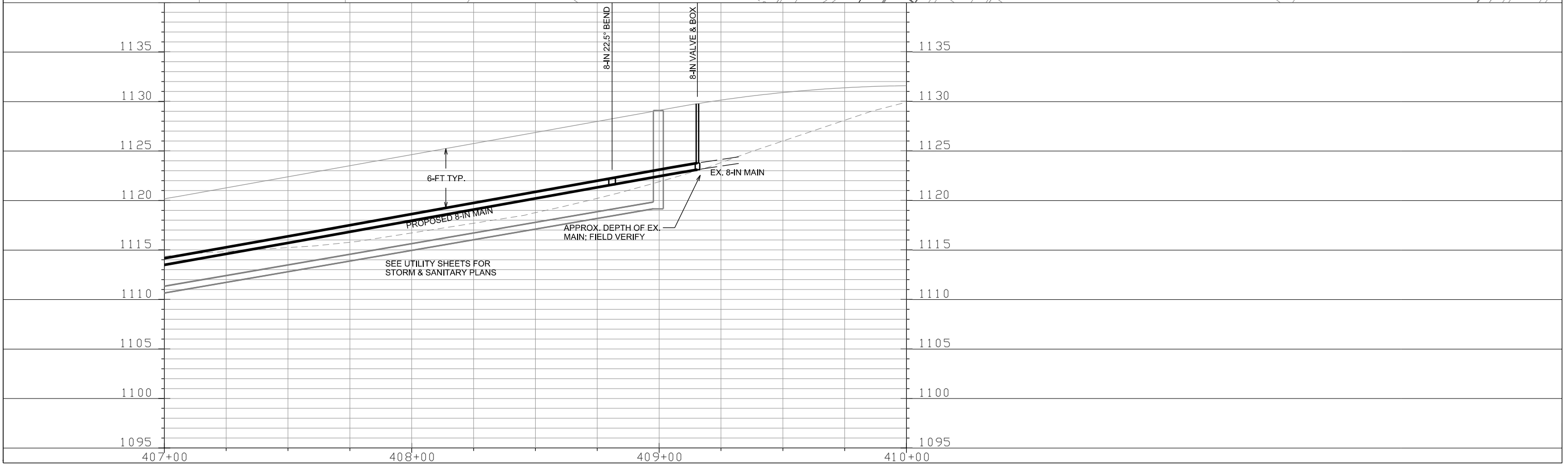
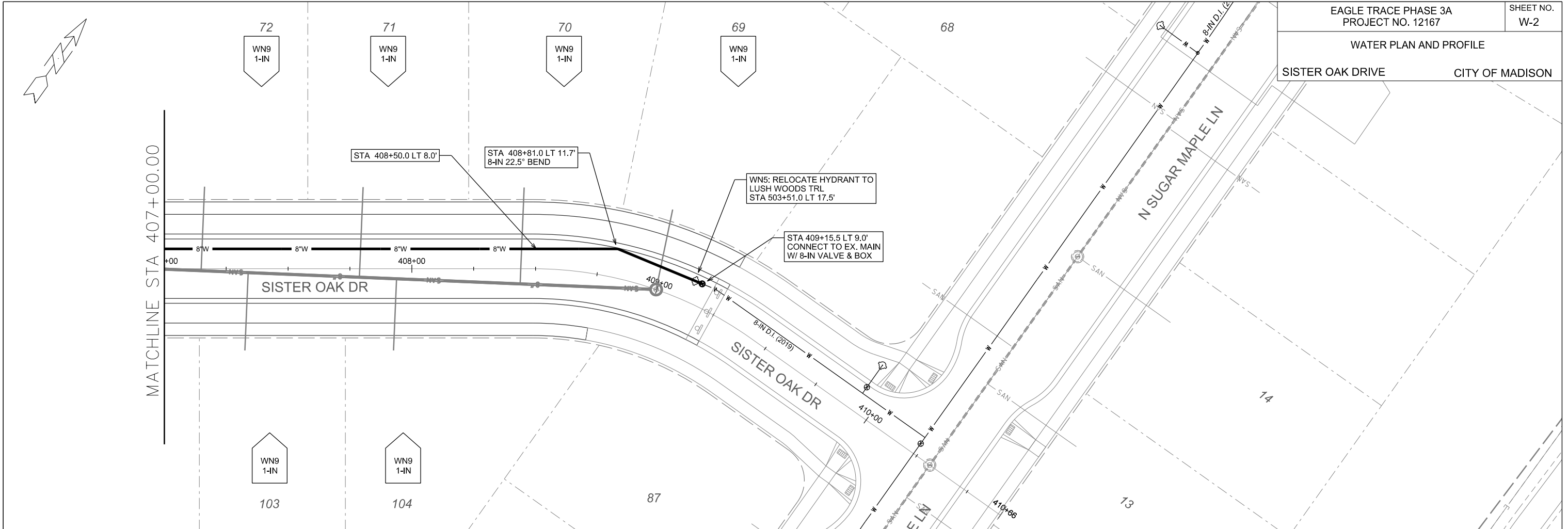
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

SPECIFIC NOTES

[1] INSTALL LOW POINT PVC DRAIN PER S.D.D. 5.7.7A





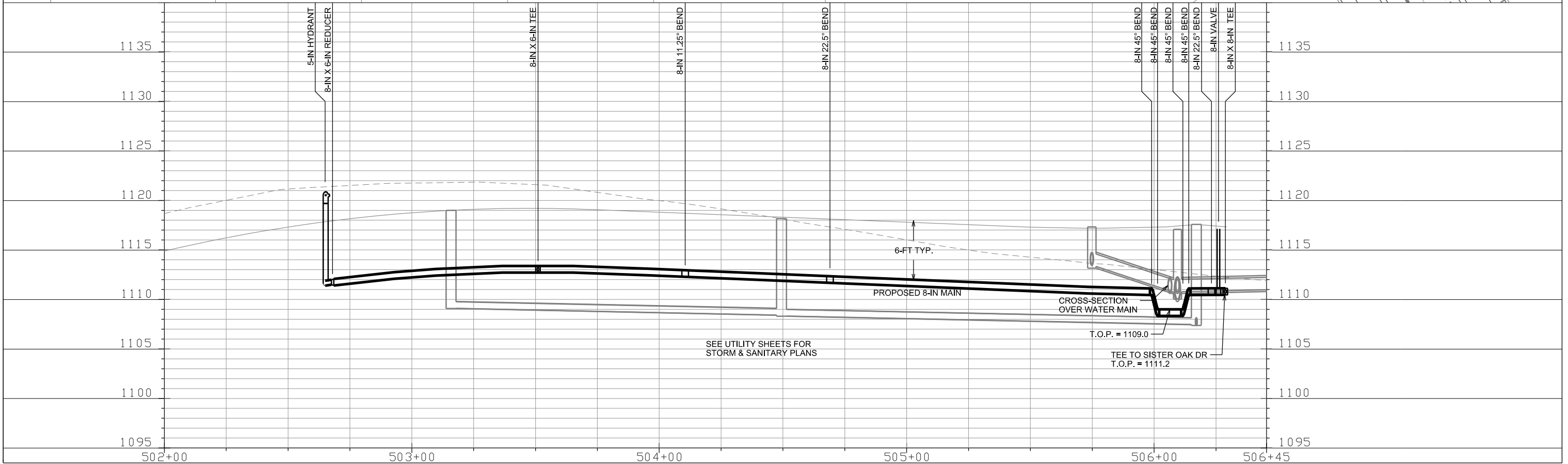
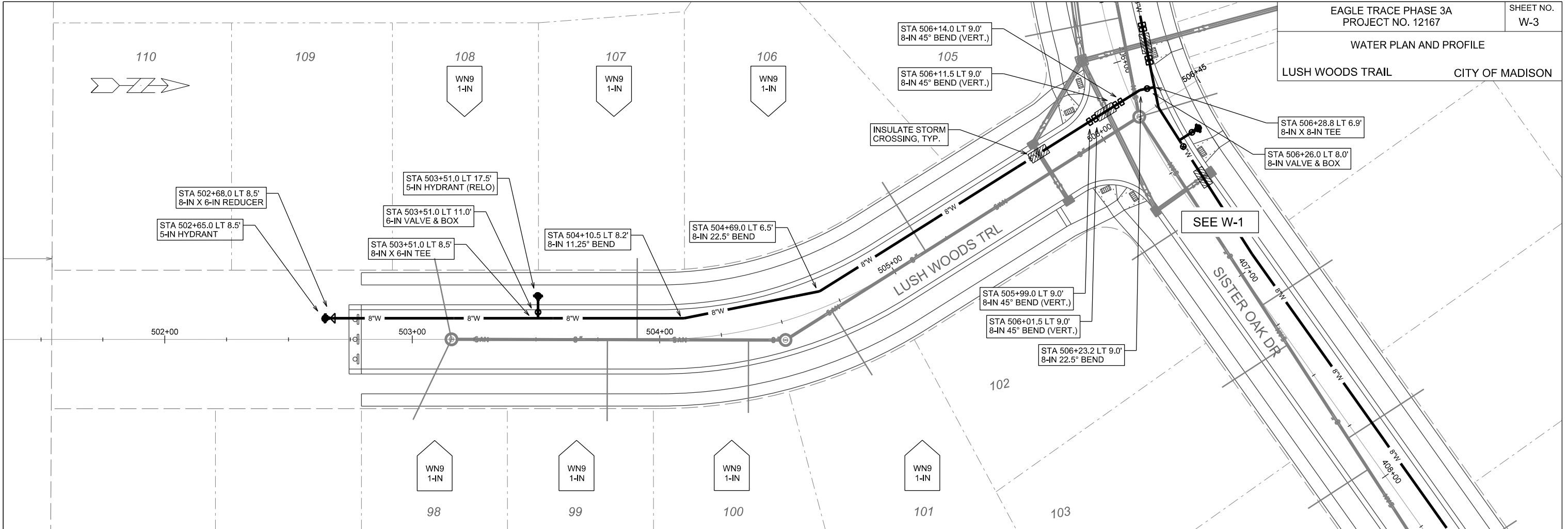
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
LUSH WOODS TRAIL CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN OVERVIEW

EAGLE TRACE PH. 3

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

- 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.
 - VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
 - MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
 - 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:

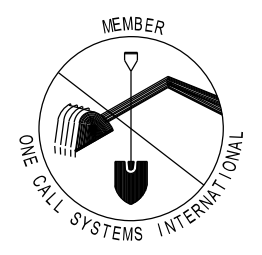
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- | | |
|-----------------------|-----------------------------------|
| 25-FT - 6-IN PIPE | 1 - 8-IN X 6-IN REDUCER |
| 1080-FT - 8-IN PIPE | 1 - 5-IN HYDRANT |
| 2 - 6-IN VALVE & BOX | 80-FT - 2-IN STYROFOAM INSULATION |
| 4 - 8-IN VALVE & BOX | 1270-FT - POLY WRAP |
| 2 - 8-IN X 6-IN TEE | 1-IN TO 2-IN COPPER (AS REQ'D) |
| 1 - 8-IN X 8-IN TEE | |
| 8 - 8-IN 45° BEND | |
| 4 - 8-IN 22-1/2° BEND | |
| 2 - 8-IN 11-1/4° BEND | |

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.



MATERIALS SUPPLIED BY CITY:

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

NONE

ESTIMATE OF MATERIALS REUSED:

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

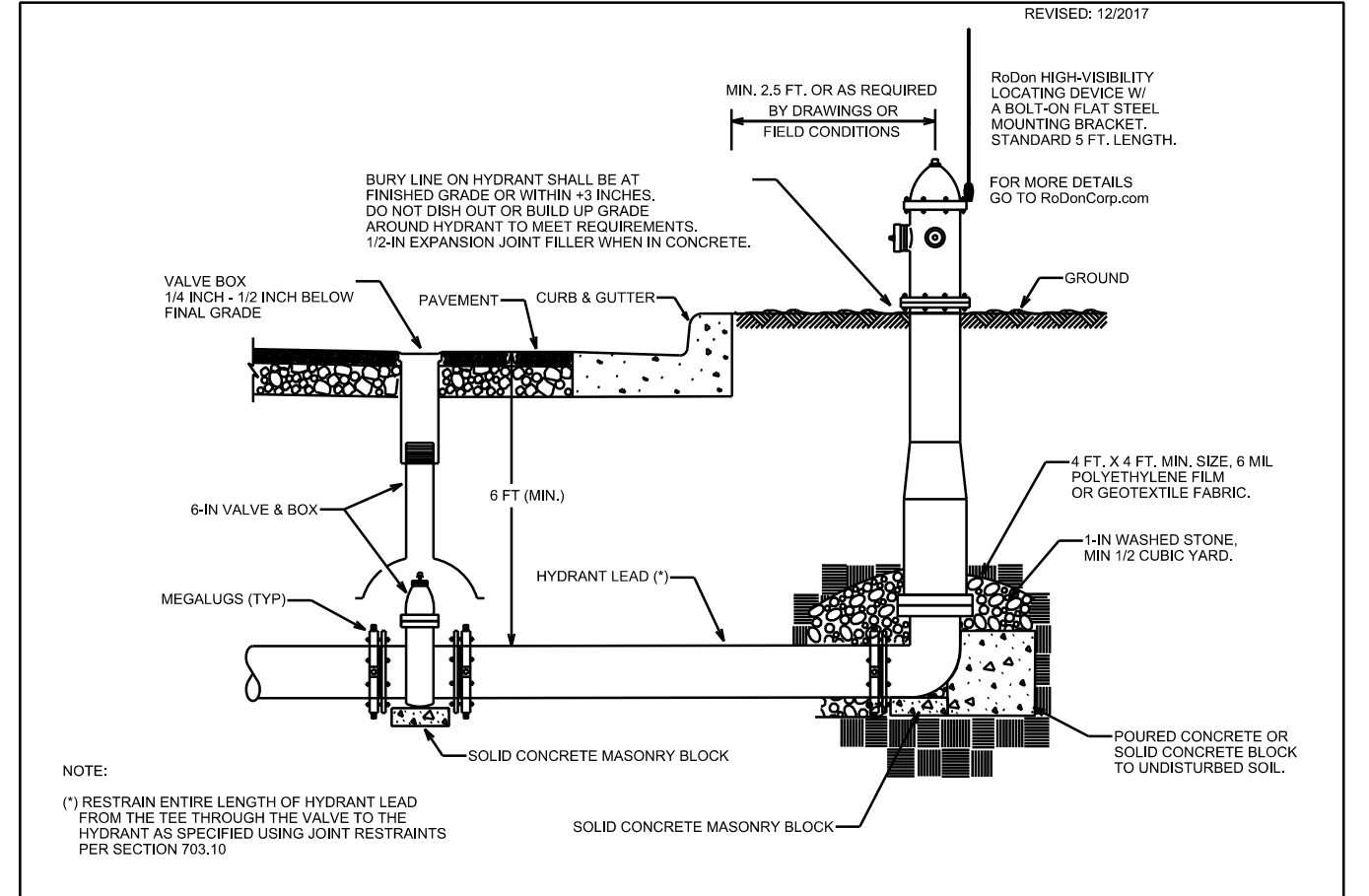
2 - 5-IN HYDRANT

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



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

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION