

Madison, Wisconsin

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# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

## VILLAGE AT AUTUMN LAKE REPLAT, PHASE 3

MUNIS NO. 11508  
 CITY PROJECT NO. 11508  
 CITY CONTRACT NO. 7863

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 3, 2017

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

  
 City Engineer 4/30/18  
Date

WATER DESIGNED BY:

  
 ADAM R. WIEDERHOEFT  
 E-41559  
 MADISON WI  
 4-20-2018

SANITARY SEWER DESIGNED BY:

  
 MARK D. MODER  
 E-33979  
 MADISON WI  
 4/30/18

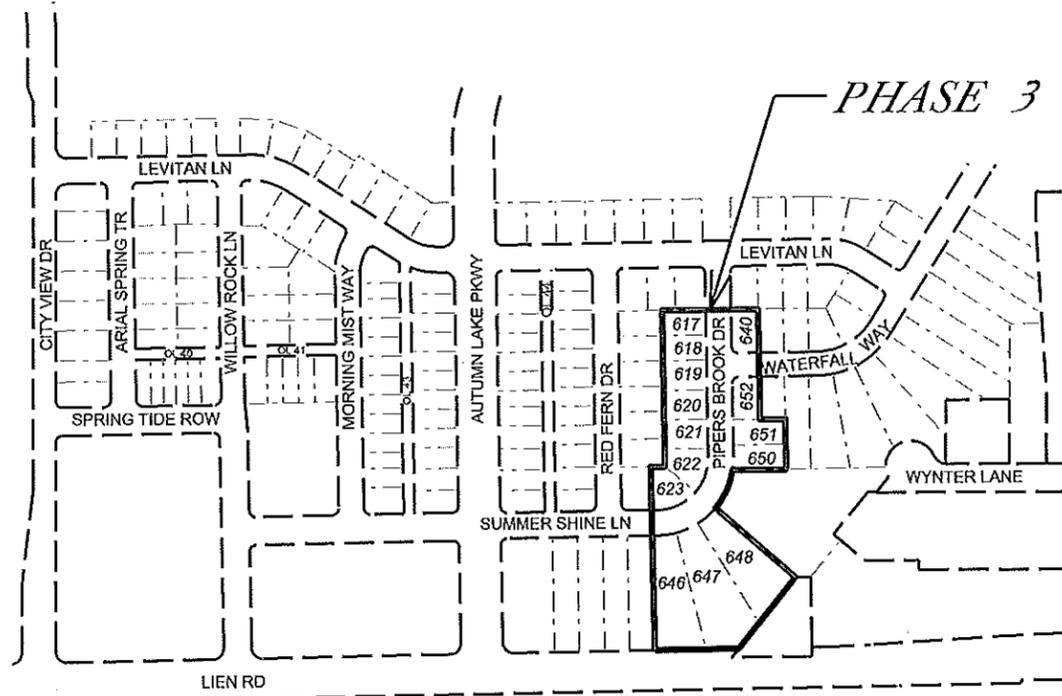
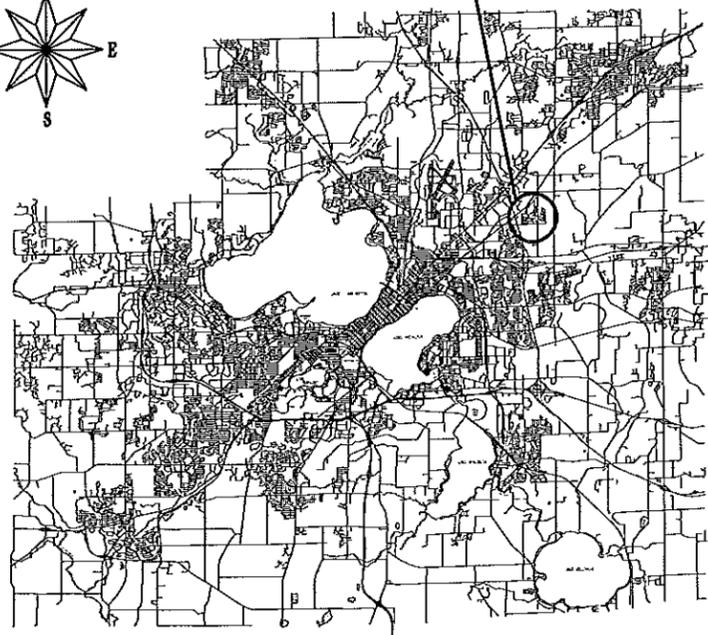
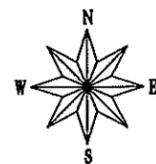
STORM SEWER DESIGNED BY:

  
 JANET SCHMIDT  
 E-34681  
 MADISON WI  
 4-30-18

STREET DESIGNED BY:

  
 JOHN P. SAPP  
 44054  
 Janesville, WI  
 4-20-18

### PROJECT LOCATION



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.

CONTRACTOR/DEVELOPER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO THE START OF WORK. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS APPROVED.

ALL PAVEMENT IN THE SUMMER SHINE LANE, PIPERS BROOK DRIVE, AND WATERFALL WAY RIGHTS-OF-WAY SHALL BE TYPE A 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 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.

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 

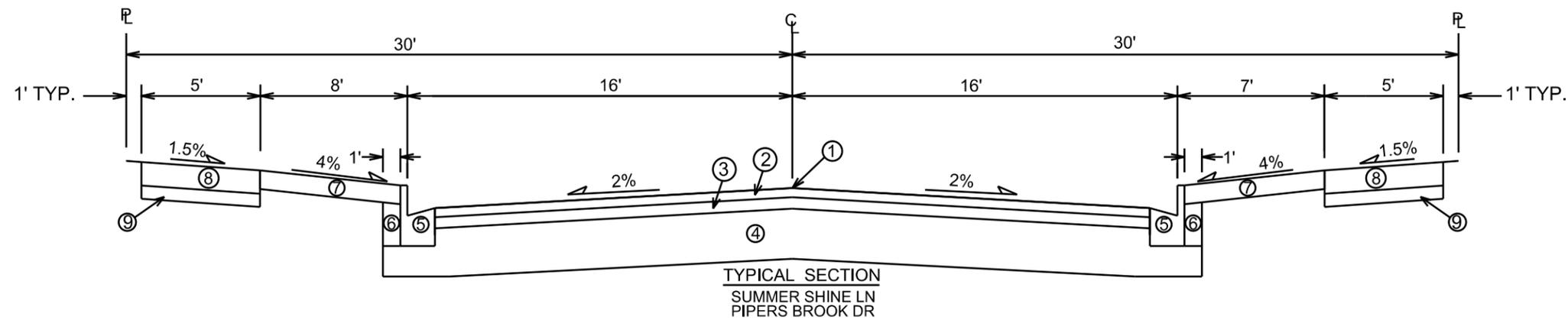
COMBUSTIBLE FLUIDS 

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

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

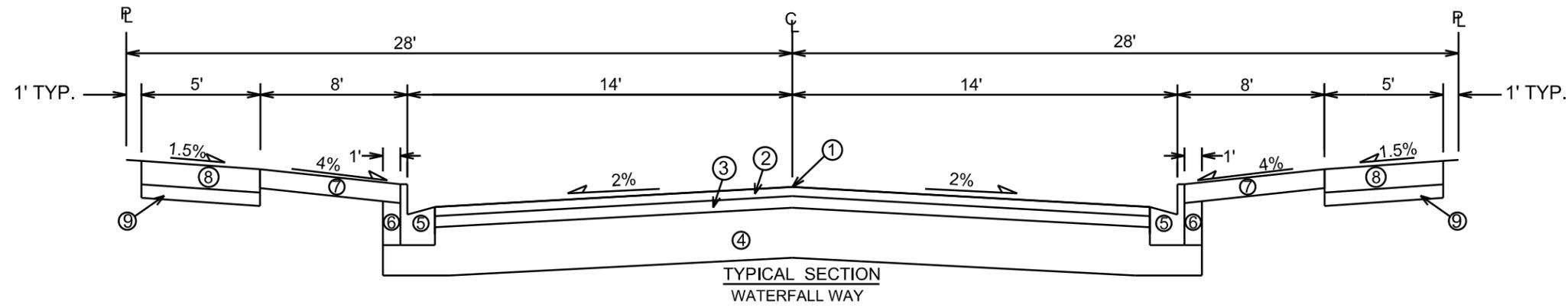
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- ① POINT REFERRED TO ON PROFILE
- ② \*\*\* ASPHALTIC CONCRETE PAVEMENT UPPER LAYER
- ③ \*\*\* ASPHALTIC CONCRETE PAVEMENT LOWER LAYER
- ④ CRUSHED AGGREGATE BASE COURSE
- ⑤ TYPE 'A' CONCRETE CURB & GUTTER
- ⑥ FILL, INCIDENTAL
- ⑦ 6" TOPSOIL, SEED & MAT  
USE CLASS I URBAN TYPE A MAT ON 4H:1V OR  
FLATTER SLOPES, USE CLASS I URBAN TYPE B  
MAT ON SLOPES STEEPER THAN 4H:1V.
- ⑧ 5" CONCRETE SIDEWALK
- ⑨ \*\*2" SELECT FILL (TYPICAL)

TYPICAL SECTIONS NOT TO SCALE



\* CITY OF MADISON MINIMUM PAVEMENT DESIGN

NOTES:

- \* SUMMER SHINE LN, PIPERS BROOK DR, AND WATERFALL WAY SHALL BE TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN
- \*\* 3" OF CRUSHED AGGREGATE BASE COURSE GRADATION 3 SHALL BE PLACED UNDER THE SIDEWALK WHERE THE CENTERLINE GRADE OF THE STREET EXCEEDS 5%.
- \*\*\* ALL UPPER LAYER PAVEMENTS ARE 12.5 mm; LOWER LAYER PAVEMENT IS 12.5 mm FOR TYPE A & 19 mm FOR TYPE B & C.

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		LOWER 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 HT 58-28 H	3.50"	4 MT 58-28 S/H 4 HT 58-28 H	2.00"

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

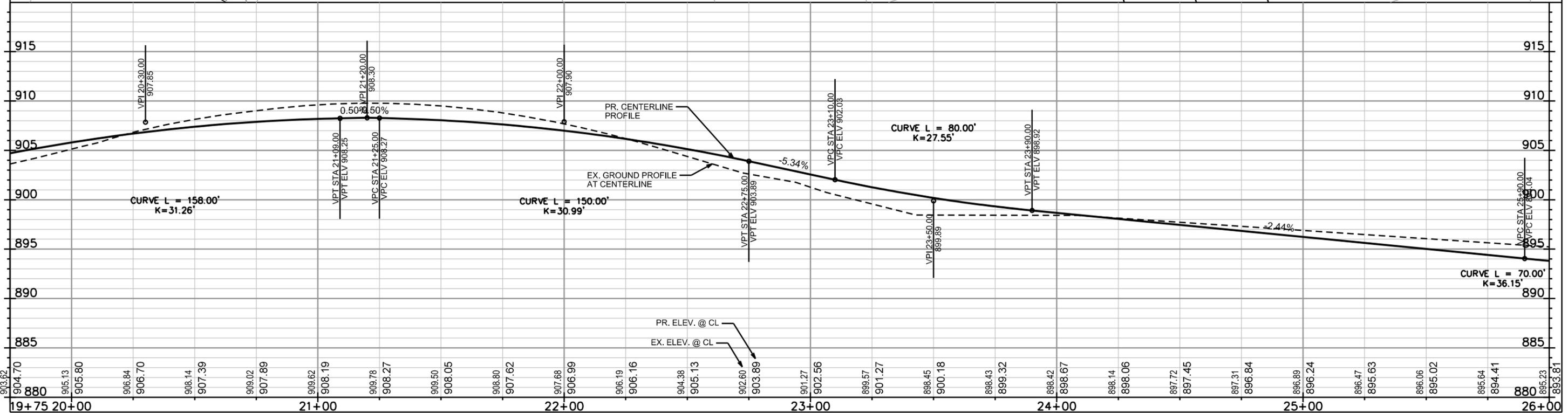
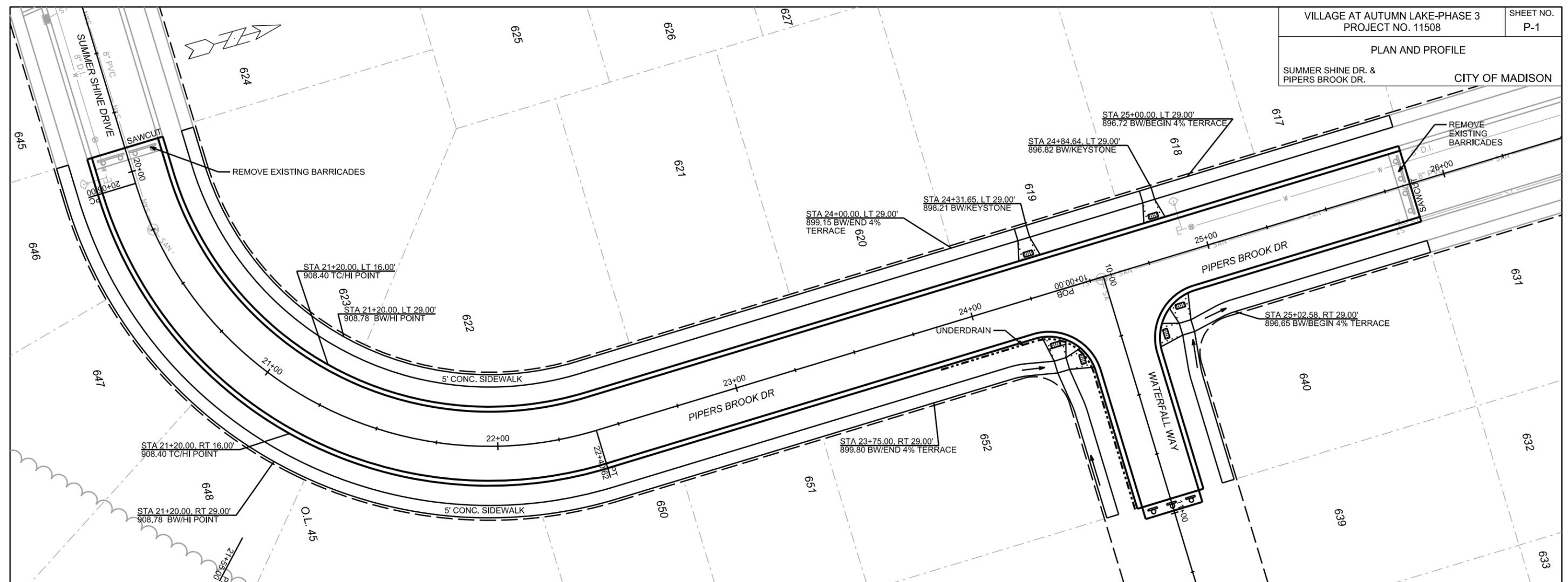
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

SUMMER SHINE DR. & PIPERS BROOK DR. CITY OF MADISON

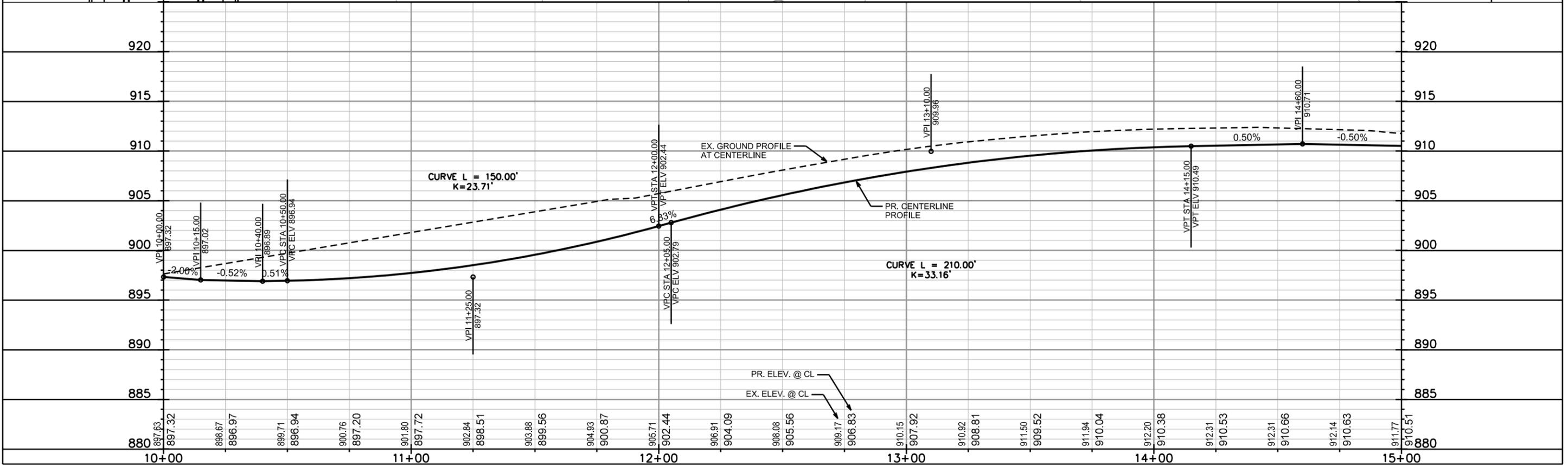
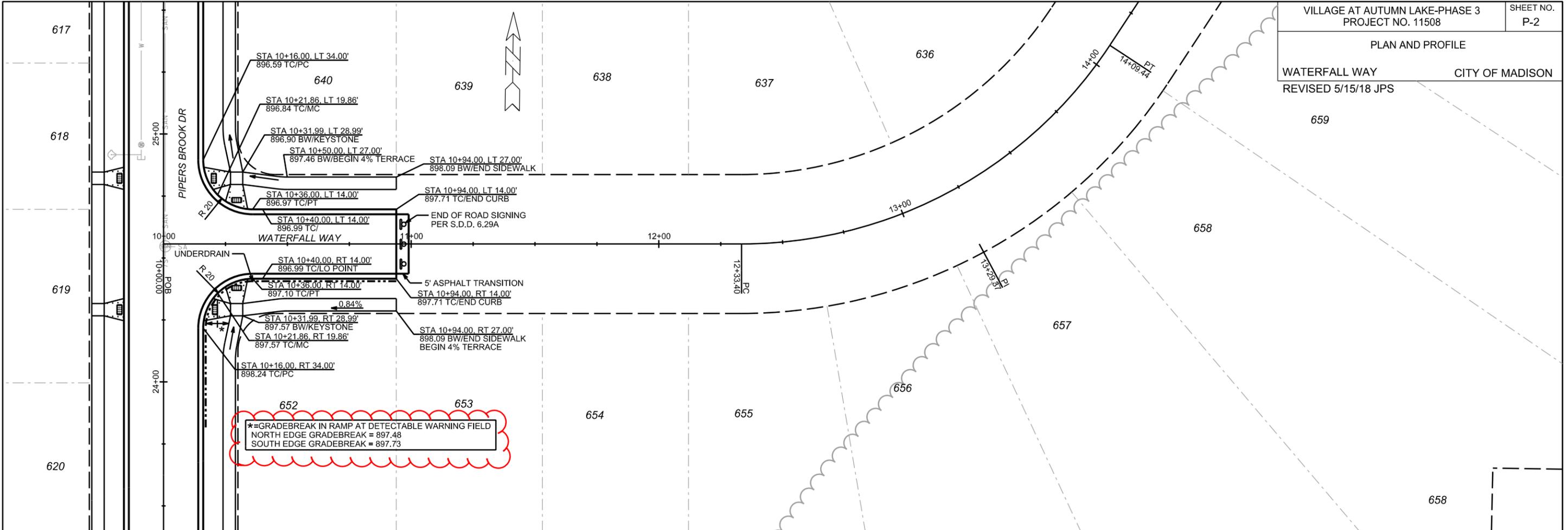


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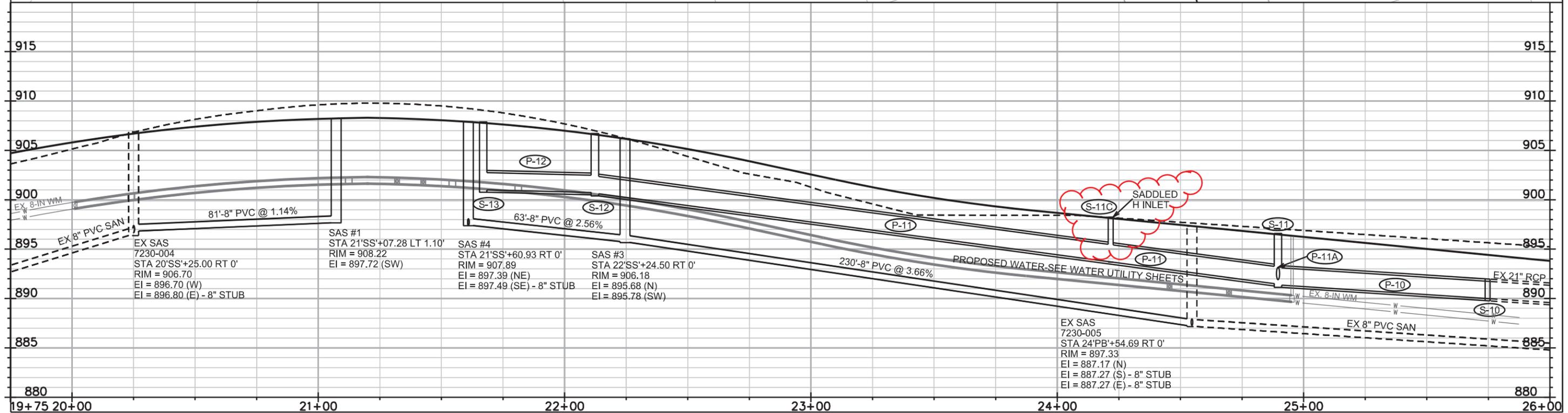
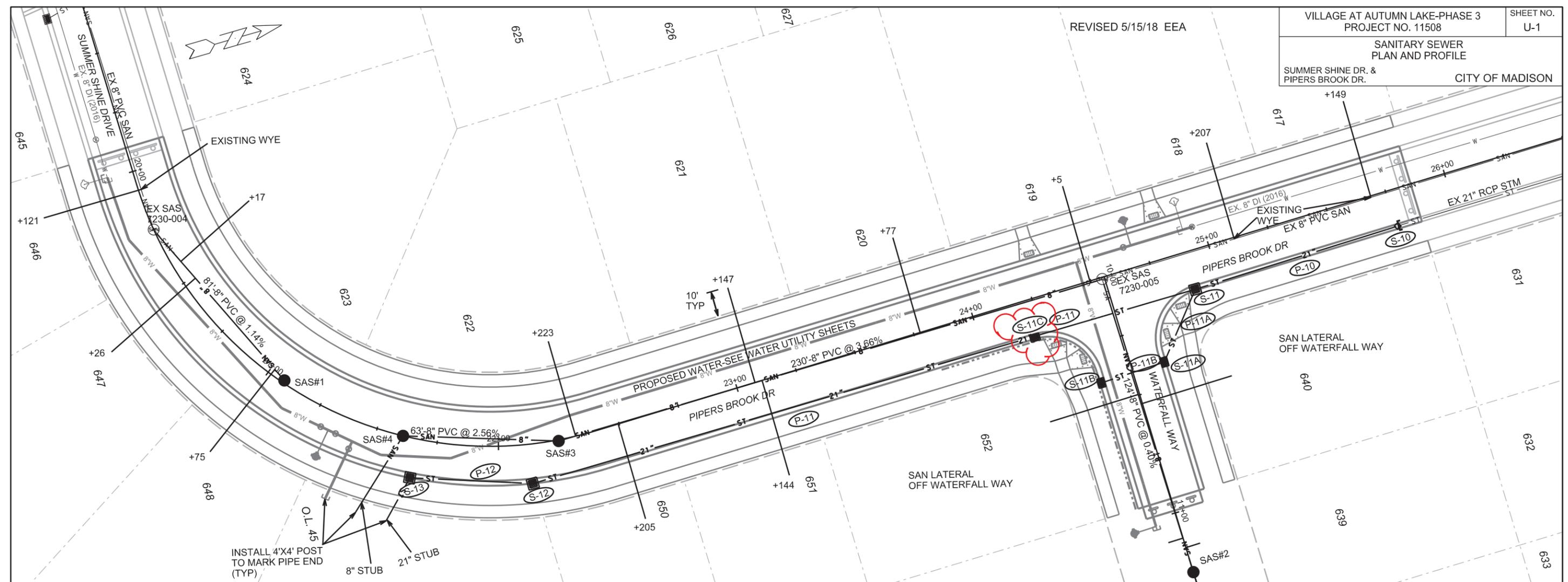
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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 5/15/18 EEA

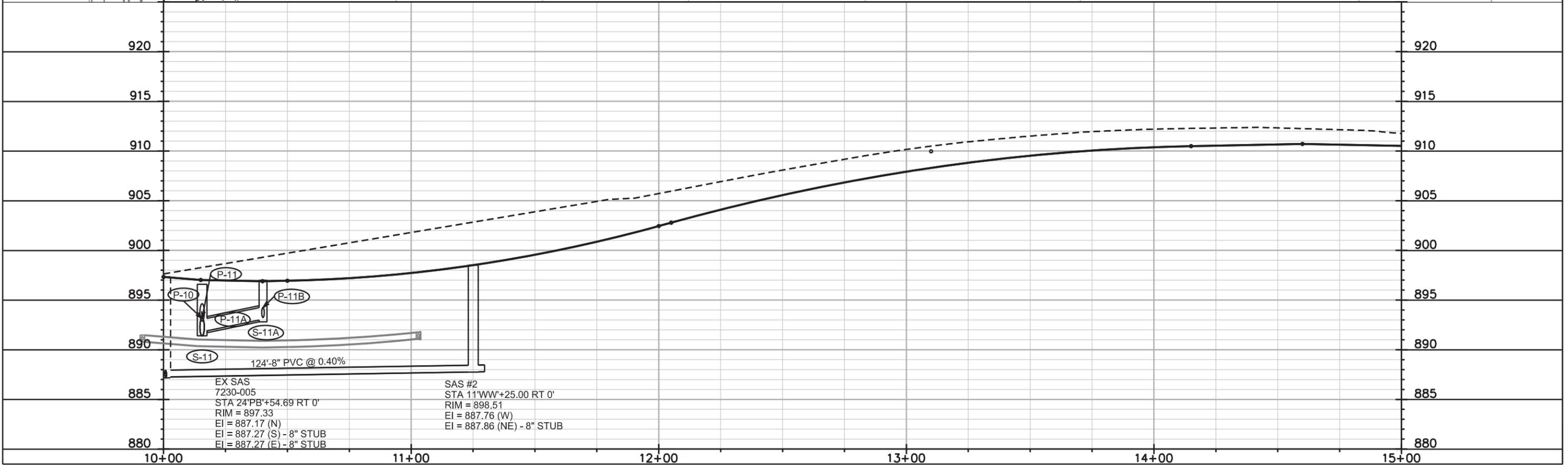
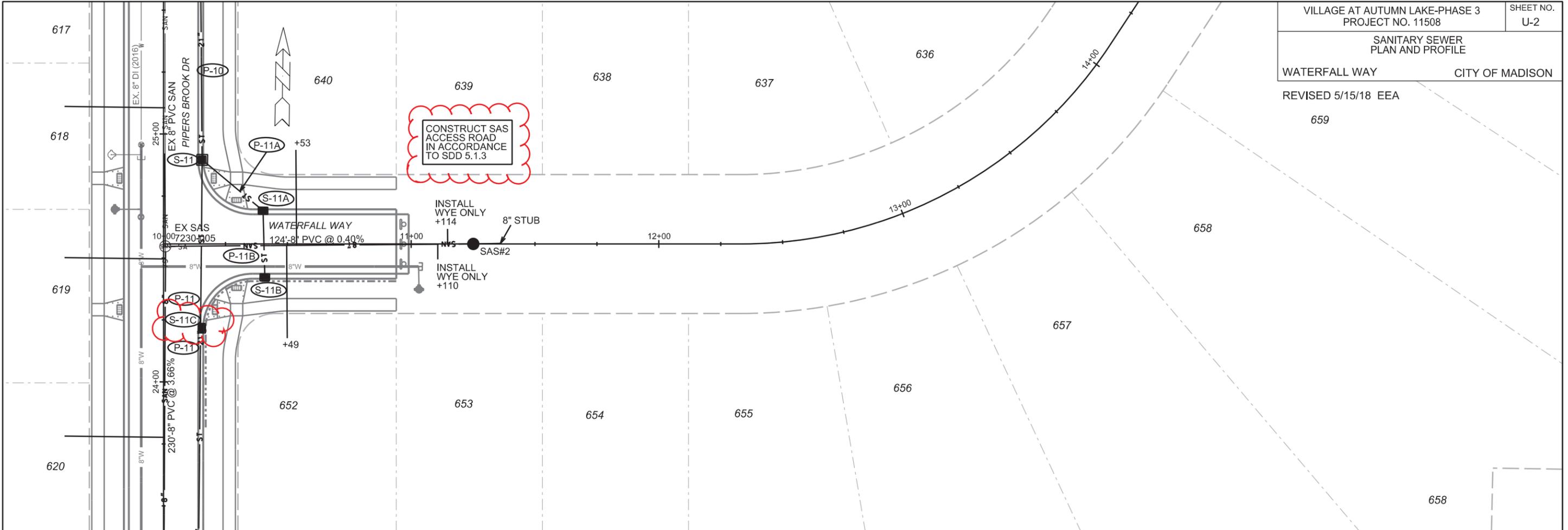


PLOT SCALE:

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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



<p>EX SAS 7230-005 STA 24'PB'+54.69 RT 0' RIM = 897.33 EI = 887.17 (N) EI = 887.27 (S) - 8" STUB EI = 887.27 (E) - 8" STUB</p>	<p>SAS #2 STA 11'WW'+25.00 RT 0' RIM = 898.51 EI = 887.76 (W) EI = 887.86 (NE) - 8" STUB</p>
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PLOT SCALE: \_\_\_\_\_

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

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SANITARY SEWER SCHEDULE

VILLAGE AT AUTUMN LAKE-PHASE 3 PROJECT NO. 11508	SHEET NO. U-3
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>SUMMER SHINE DRIVE</b>						
SAS#1	21'SS'+07.28	LT-1.10	908.22	897.72	10.50	-
<b>WATERFALL WAY</b>						
SAS#2	11'WW'+25.00	CL	898.51	887.76	10.75	-
<b>PIPERS BROOK DRIVE</b>						
SAS#3	22'SS'+24.50	CL	906.18	895.68	10.50	-
SAS#4	21'SS'+60.93	CL	907.89	897.39	10.50	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>SUMMER SHINE DRIVE</b>								
EX SAS 7230-004	SAS#1	896.80	897.72	81	1.14%	8"	SDR-35	-
<b>WATERFALL WAY</b>								
EX SAS 7230-005	SAS#2	887.27	887.76	124	0.40%	8"	SDR-35	-
<b>PIPERS BROOK DRIVE</b>								
EX SAS 7230-005	SAS#3	887.27	895.68	230	3.66%	8"	SDR-35	-
SAS#3	SAS#4	895.78	897.39	63	2.56%	8"	SDR-35	-

# STORM SEWER SCHEDULE

\* REVISED 5/15/18 EEA

VILLAGE AT AUTUMN LAKE PH. 3  
PROJECT NO. 11508

SHEET NO.  
U-4

STORM SEWER SCHEDULE CITY OF MADISON

## STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>SUMMER SHINE DRIVE</b>							
* S-10	25'SS'+75.68	RT-14.88	CONCRETE COLLAR	-	889.98	-	-
* S-11	24'SS'+89.61	RT-15.50	3X3 SAS	896.59	891.40	5.19	W/ R-3067-7004-V
* S-11C	24'SS'+21.68	RT-15.50	SADDLED H INLET	898.24	893.68	4.56	W/ R-3067-7004-V
* S-12	22'SS'+12.45	RT-15.50	3X3 SAS	906.71	900.71	6.00	W/ R-3067-7004-V
* S-13	21'SS'+66.97	RT-15.50	3X3 SAS	907.88	901.01	6.87	W/ R-3067-7004-V

## WATERFALL WAY

* S-11A	10'WW'+40.00	LT-13.50	H INLET	896.99	892.99	4.00	W/ R-3067-7004-V
* S-11B	10'WW'+40.00	RT-13.50	H INLET	896.99	893.39	3.60	LP; W/ R-3067-7004-VB; (1)

## PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>SUMMER SHINE DRIVE</b>										
P-10	S-10	S-11	889.98	891.40	86	85	1.67%	21"	RCP	-
P-11	S-11	S-12	891.40	900.71	280	277	3.36%	21"	RCP	-
P-12	S-12	S-13	900.71	901.01	50	47	0.64%	21"	RCP	-
<b>WATERFALL WAY</b>										
P-11A	S-11	S-11A	891.90	892.99	32	28	3.89%	15"	RCP	-
P-11B	S-11A	S-11B	893.24	893.39	27	25	0.60%	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:

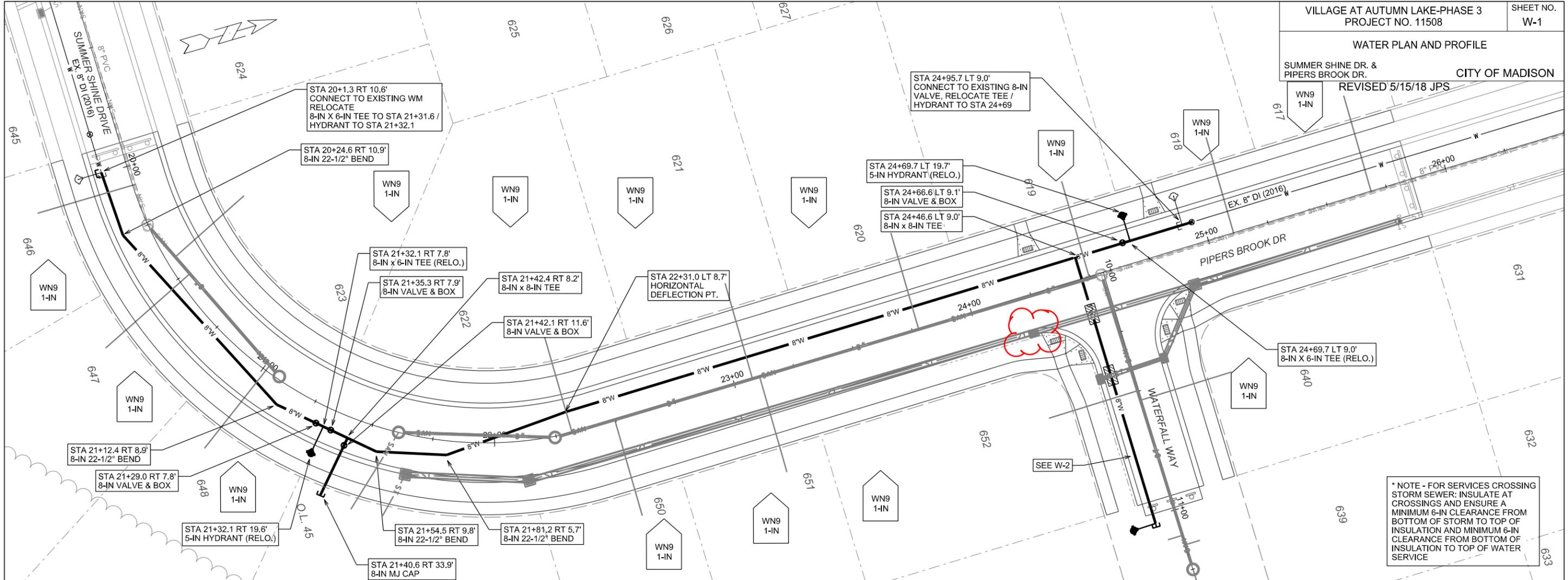
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE 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 ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

## SPECIFIC NOTES:

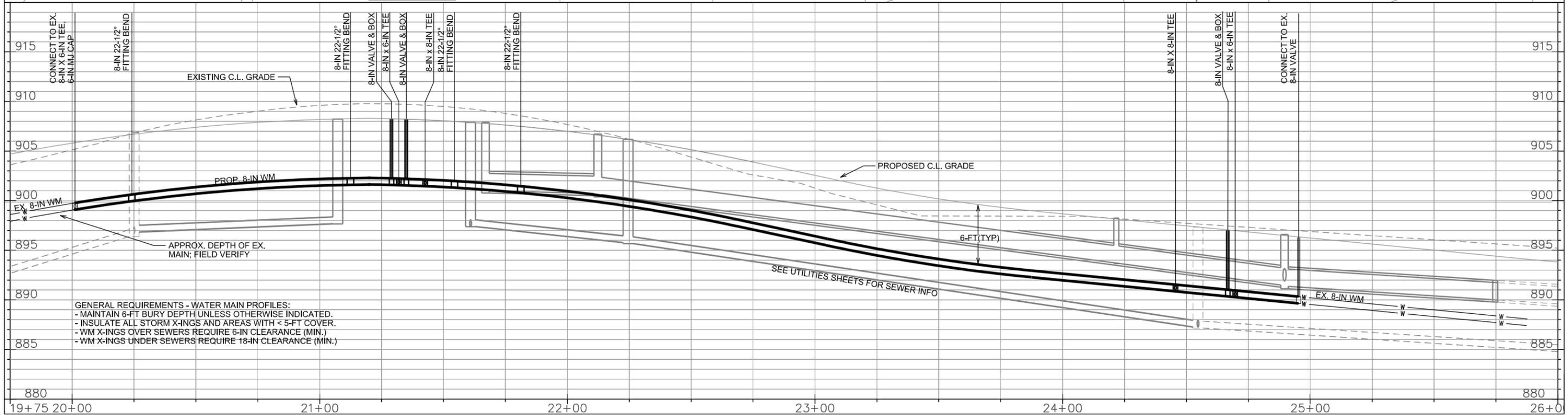
- (1) INSTALL 2" PVC DRAIN PIPE PER CITY OF MADISON S.D.D. 5.7.7A

WATER PLAN AND PROFILE

SUMMER SHINE DR. & PIPERS BROOK DR.  
CITY OF MADISON  
REVISED 5/15/18 JPS



\* NOTE - FOR SERVICES CROSSING STORM SEWER: INSULATE AT CROSSINGS AND ENSURE A MINIMUM 6-IN CLEARANCE FROM BOTTOM OF STORM TO TOP OF INSULATION AND MINIMUM 6-IN CLEARANCE FROM BOTTOM OF INSULATION TO TOP OF WATER SERVICE



PLOT SCALE:

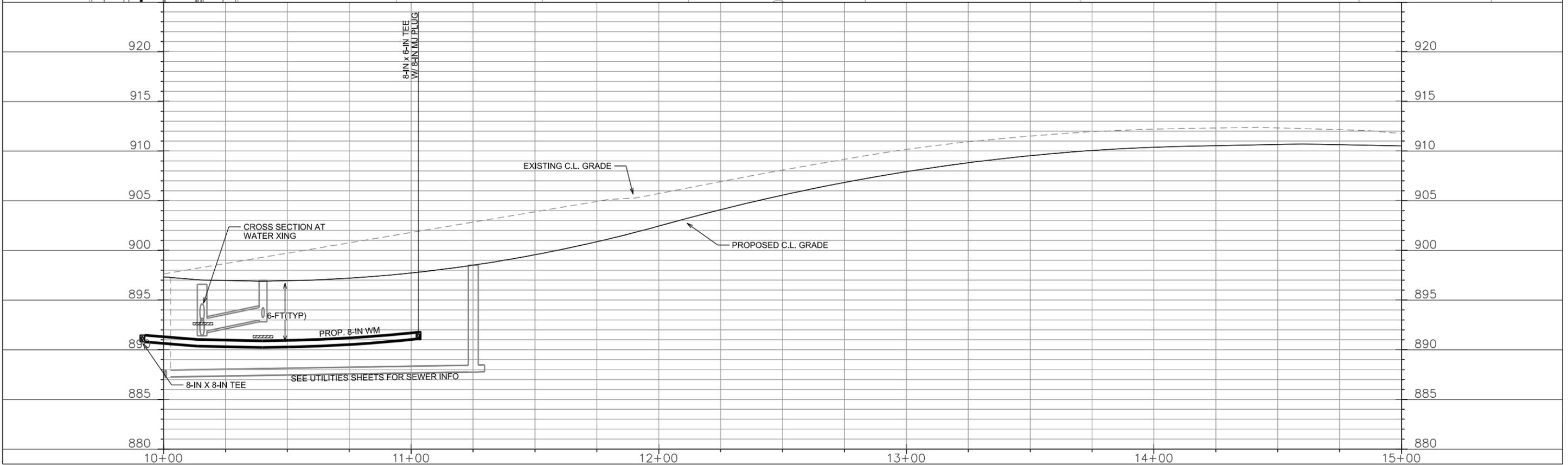
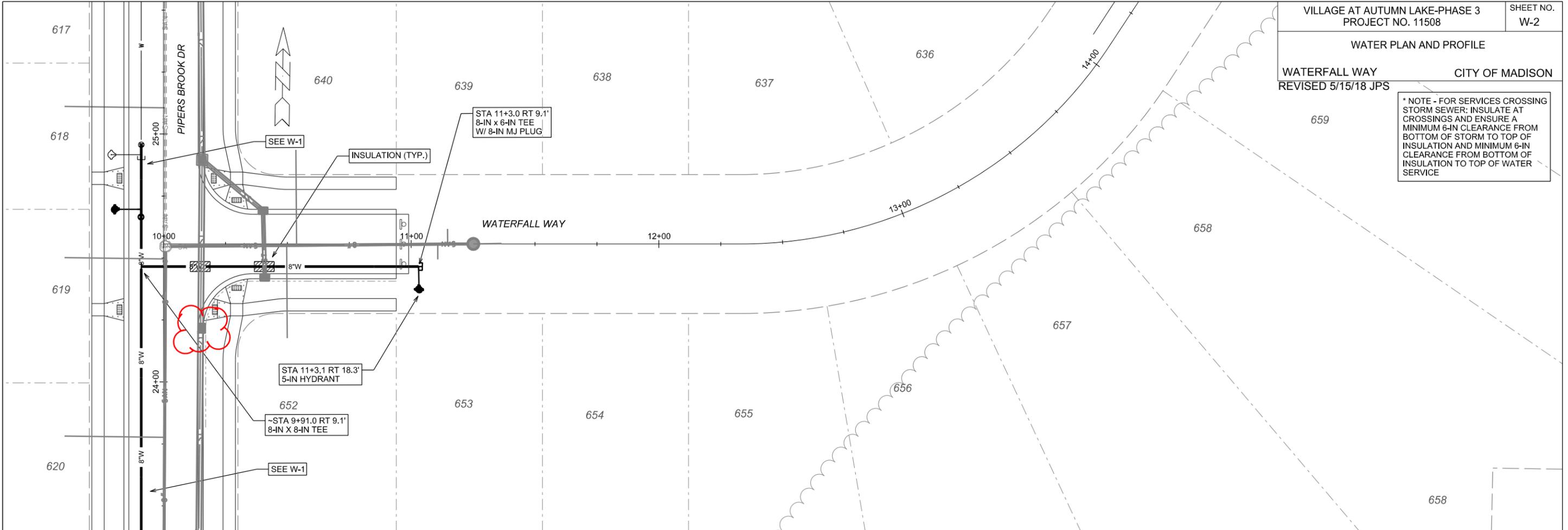
PLOT NAME:

REV. DATE:

CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
WATERFALL WAY  
REVISED 5/15/18 JPS  
CITY OF MADISON

\* NOTE - FOR SERVICES CROSSING STORM SEWER: INSULATE AT CROSSINGS AND ENSURE A MINIMUM 6-IN CLEARANCE FROM BOTTOM OF STORM TO TOP OF INSULATION AND MINIMUM 6-IN CLEARANCE FROM BOTTOM OF INSULATION TO TOP OF WATER SERVICE



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