

Madison, Wisconsin

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# CITY OF MADISON

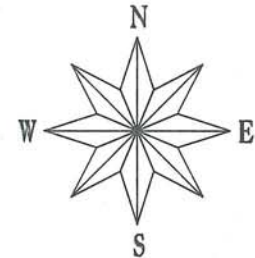
## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT  
APPROVED  
MAY 17, 2016  
BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:  
  
City Engineer Date 5/26/16



## THE WILLOWS II: PHASE 1

CITY PROJECT NO. 11382  
CITY CONTRACT NO. 7651  
MUNIS NO. 11382

STREET  
DESIGNED BY:



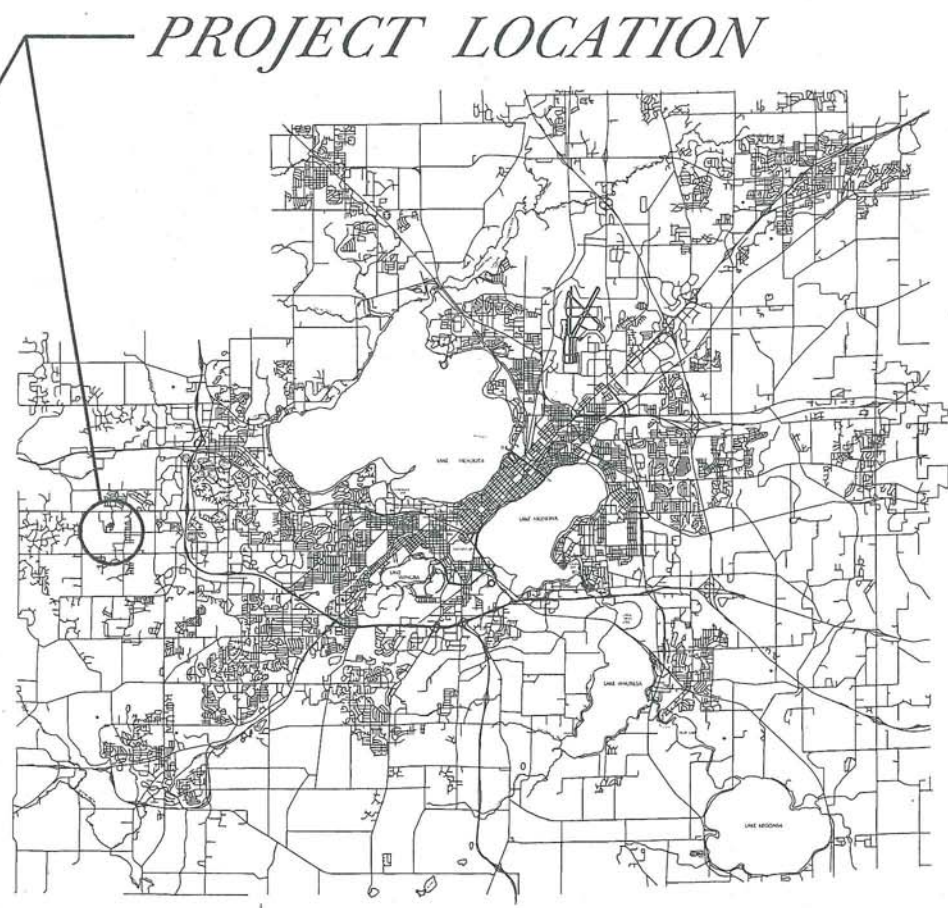
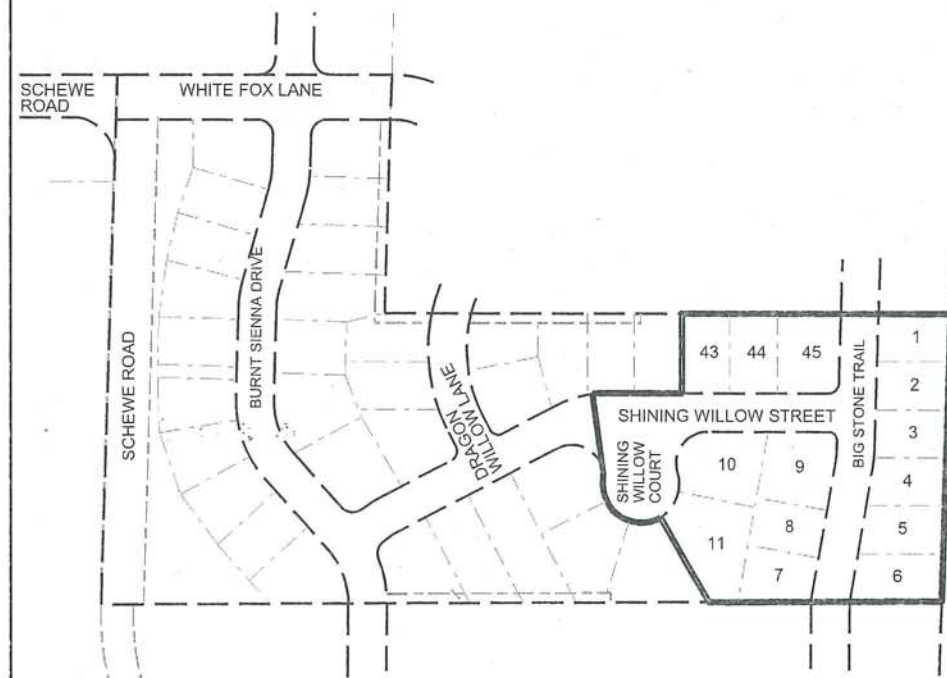
SANITARY SEWER  
DESIGNED BY:



WATER  
DESIGNED BY:



STORM SEWER  
DESIGNED BY:



PLOT SCALE:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

DETAIL

STANDARD NOTES  
AND COMMENTS

CITY OF MADISON

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.

THE DEVELOPER/CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY OF MADISON TRAFFIC ENGINEERING DIVISION A MINIMUM OF 10 WORKING DAYS PRIOR TO THE ANTICIPATED START OF WORK.

BIG STONE TRAIL, SHINING WILLOW STREET AND SHINING WILLOW COURT 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.

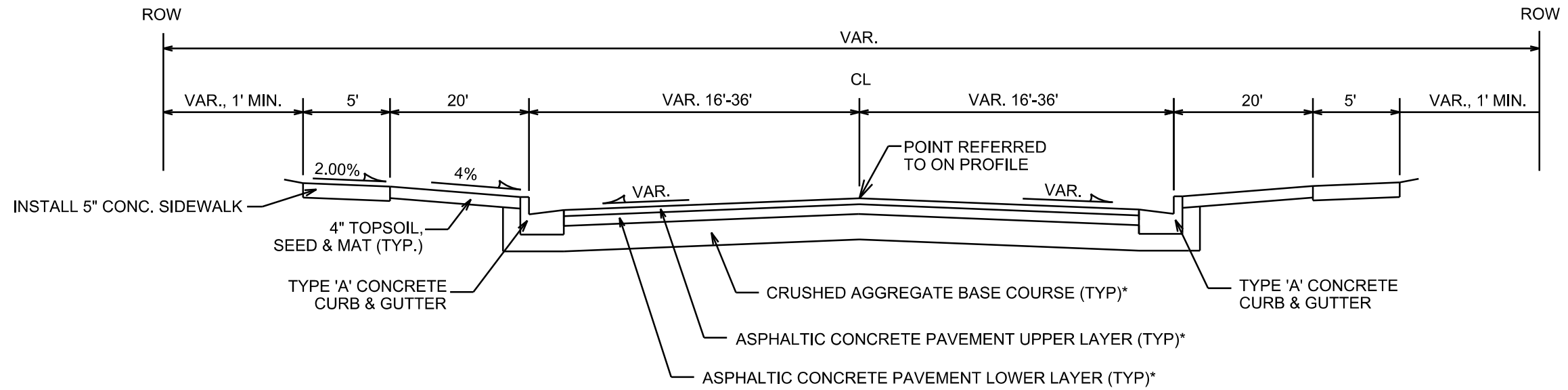
CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

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

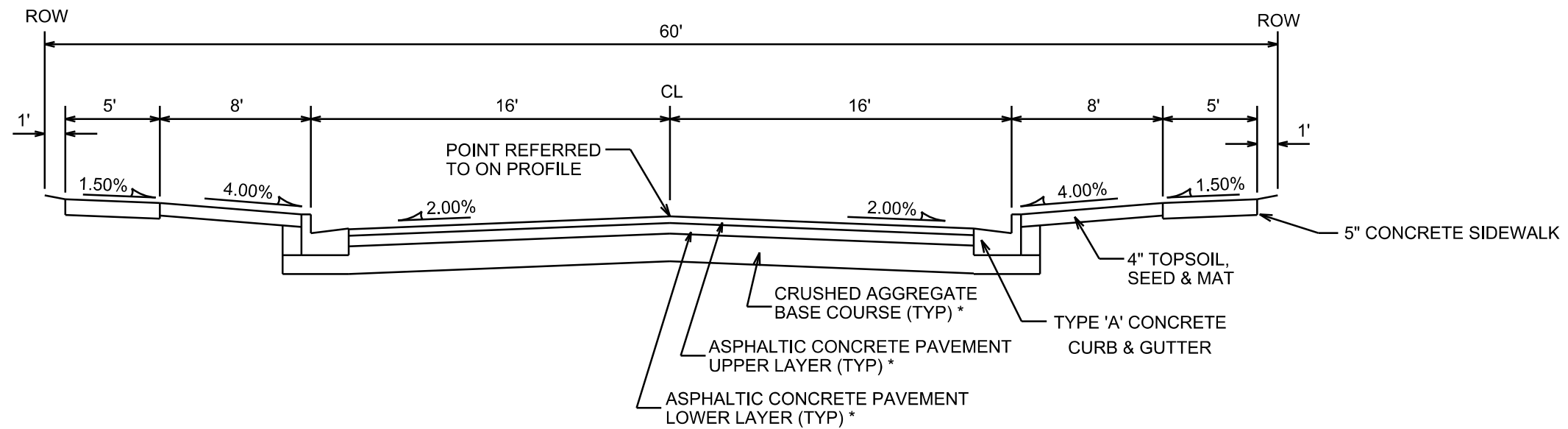
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**TYPICAL SECTION**  
SHINING WILLOW COURT



**TYPICAL SECTION**  
BIG STONE TRAIL  
SHINING WILLOW LANE

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	2.25"	E-1	2"
C	6"	4"	E-3	3.25"	E-3	2"

NOTES:

TYPICAL SECTIONS NOT TO SCALE

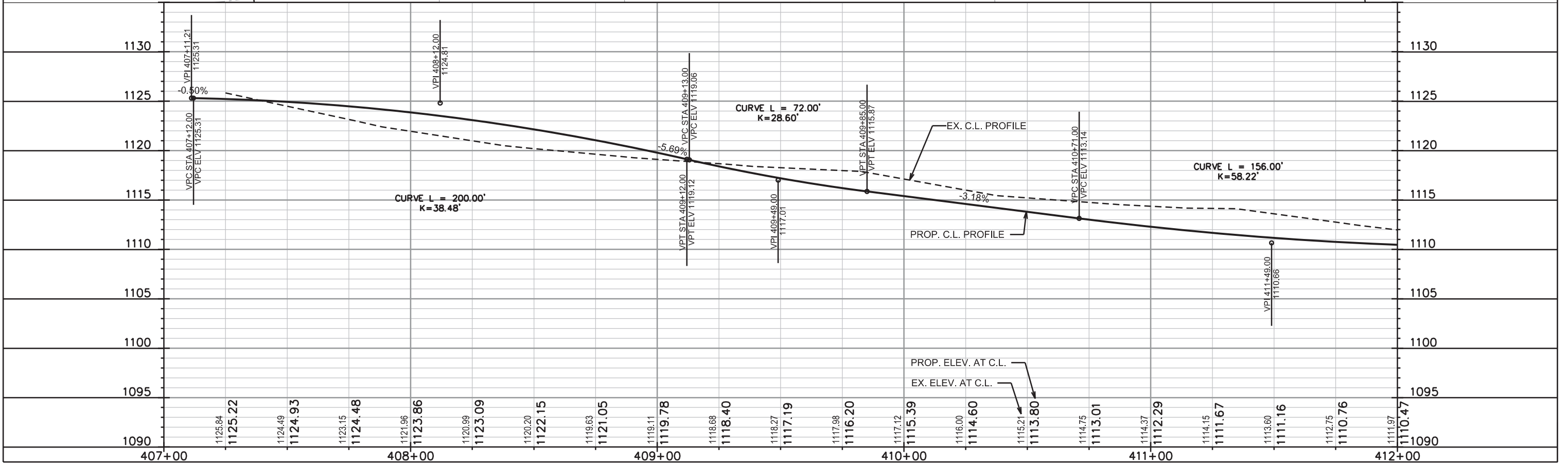
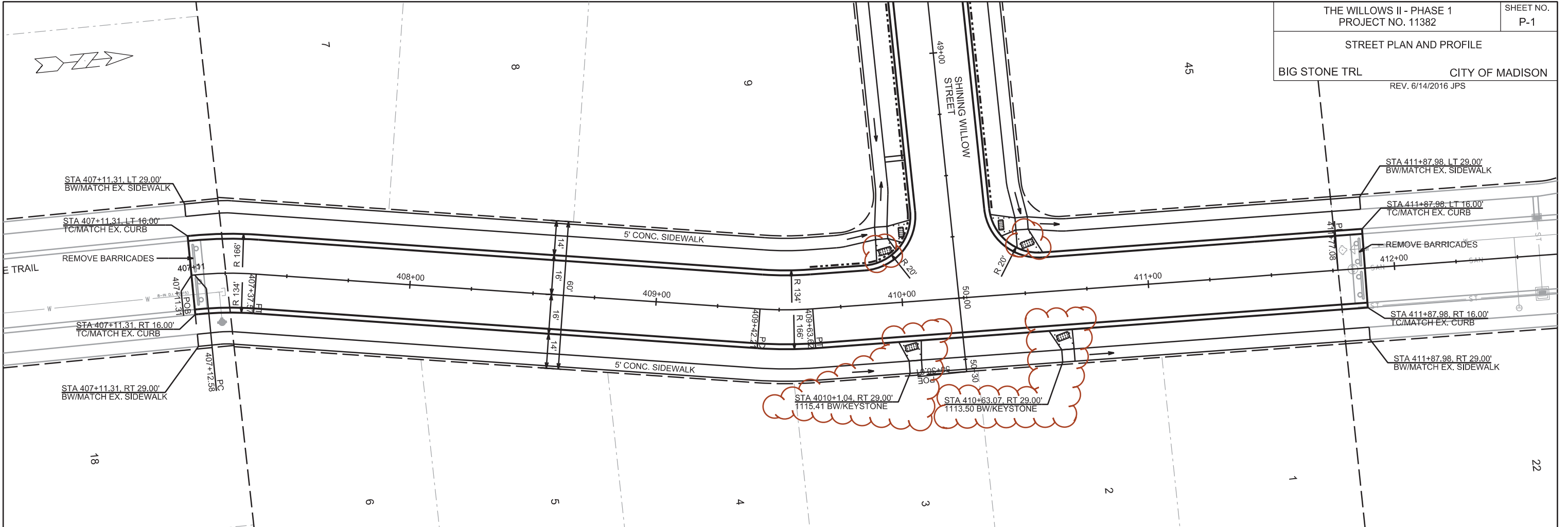
\* ROADWAY TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT  
PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



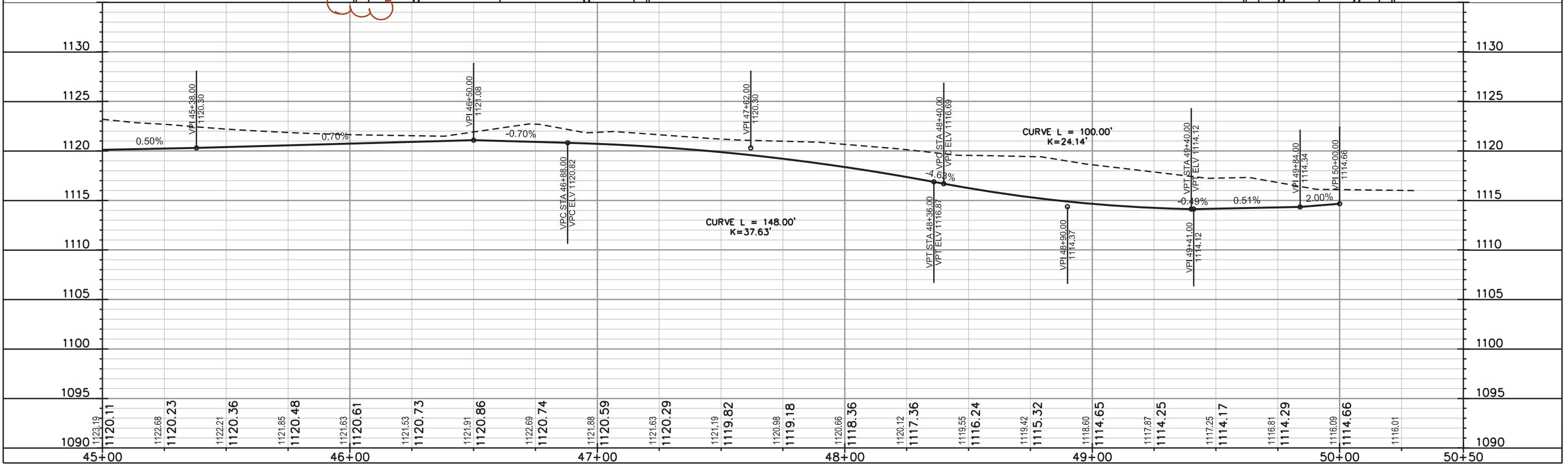
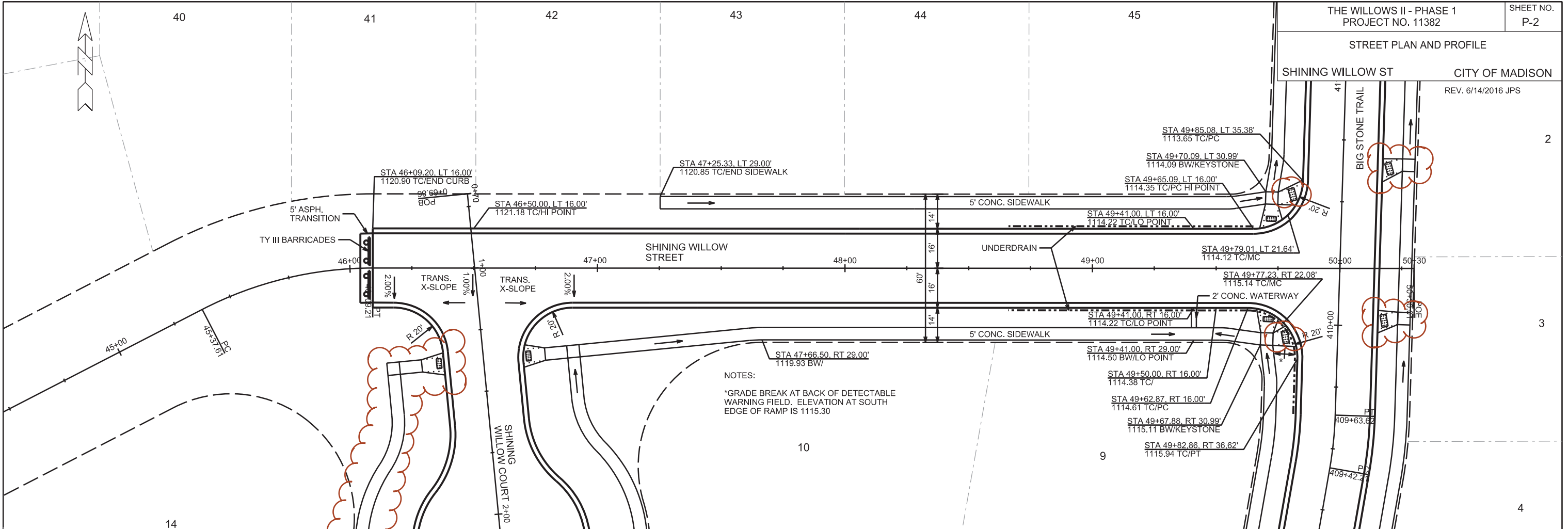
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STREET PLAN AND PROFILE  
SHINING WILLOW ST CITY OF MADISON  
REV. 6/14/2016 JPS

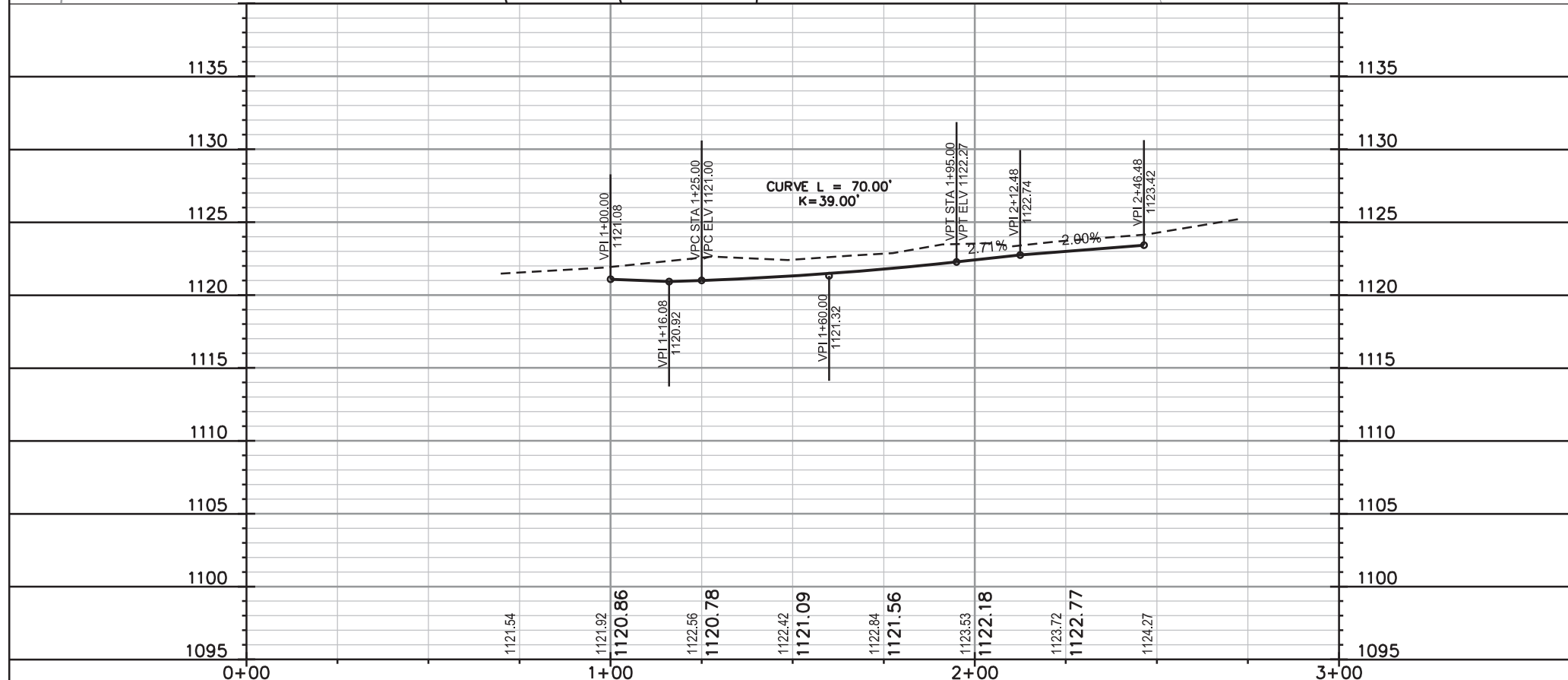
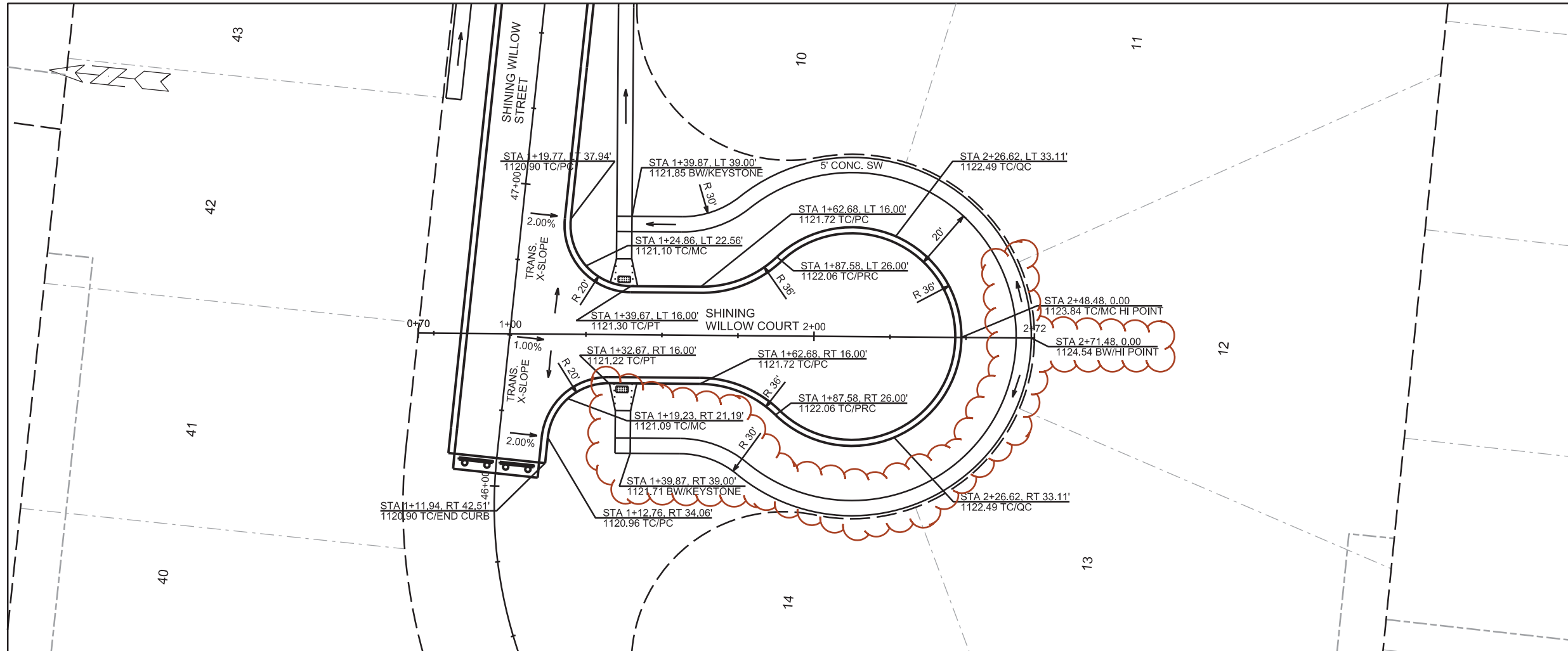


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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

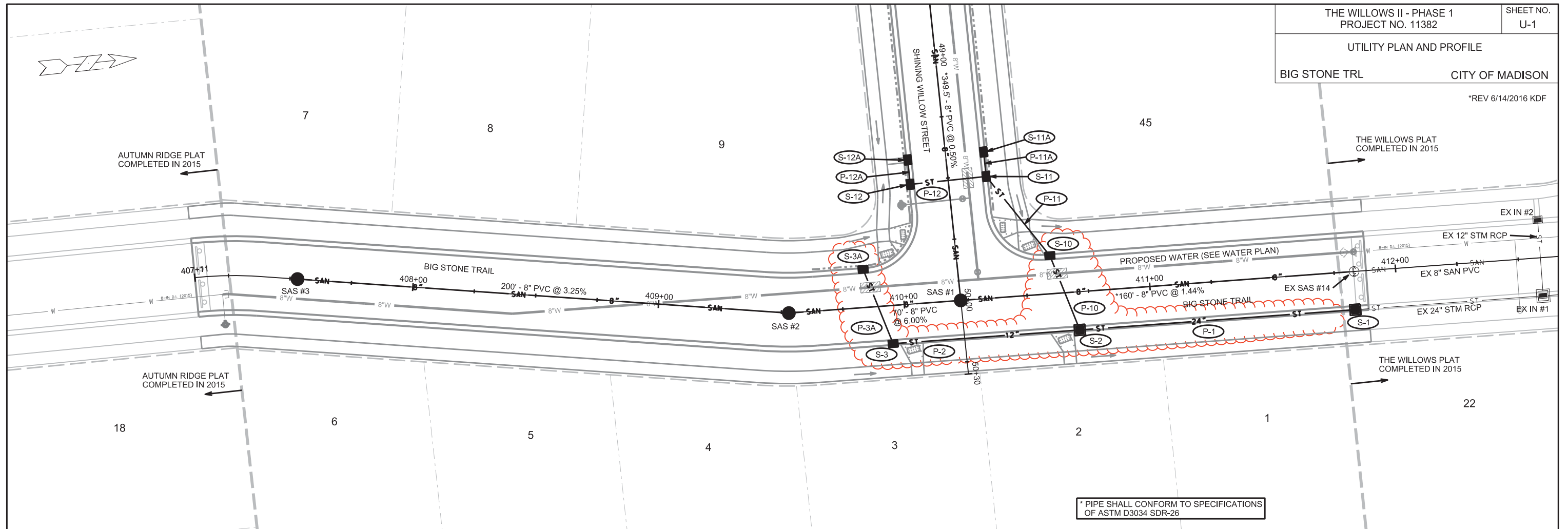


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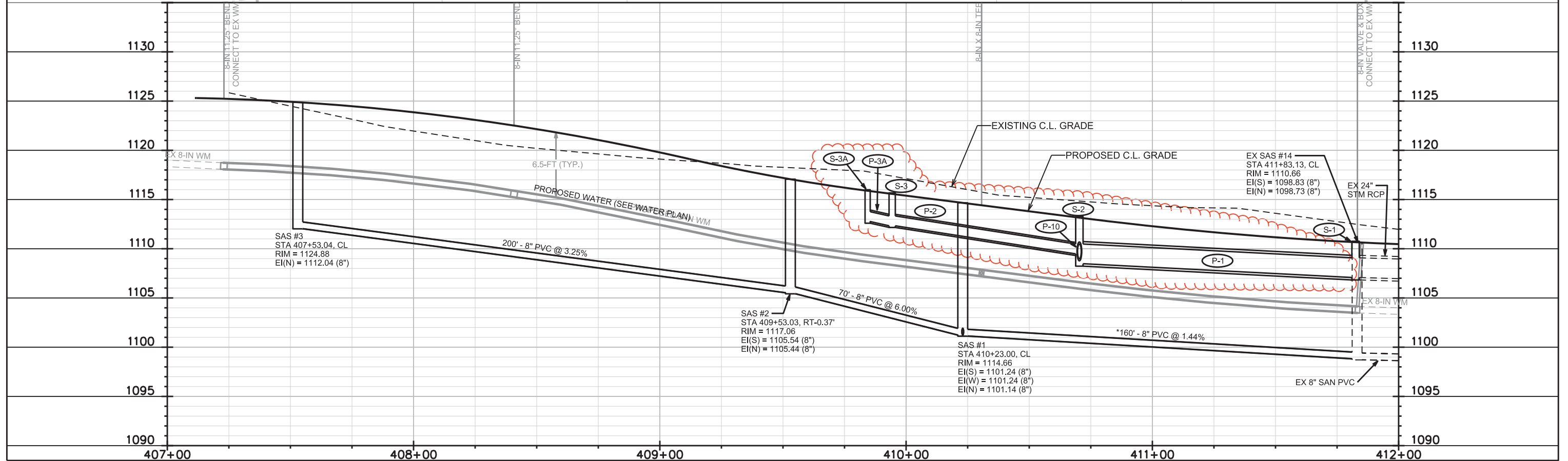
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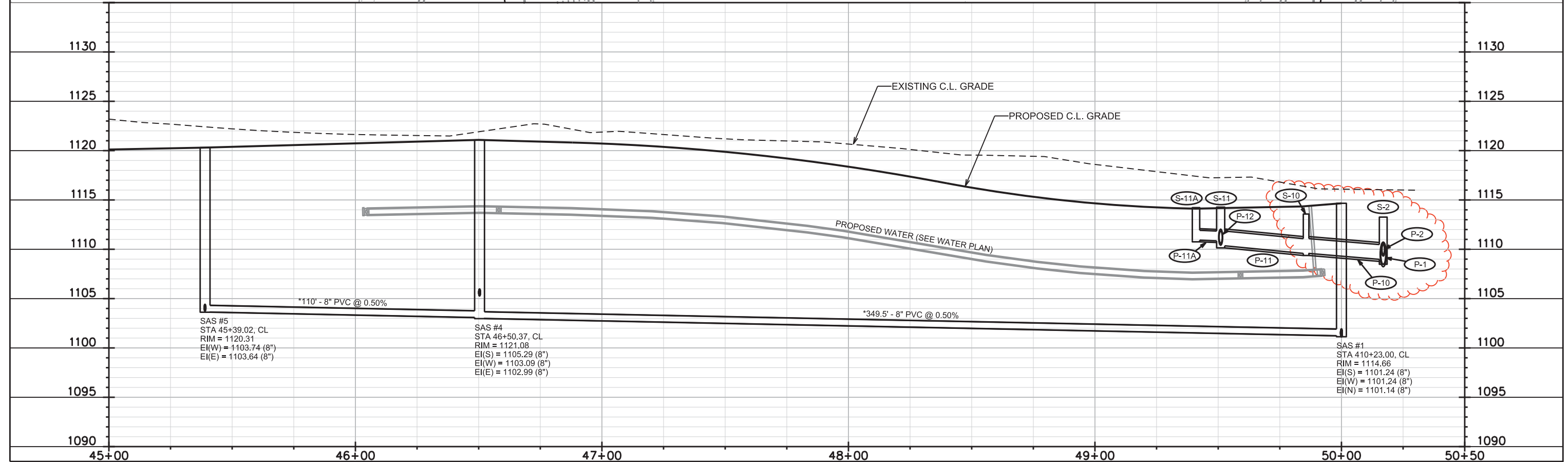
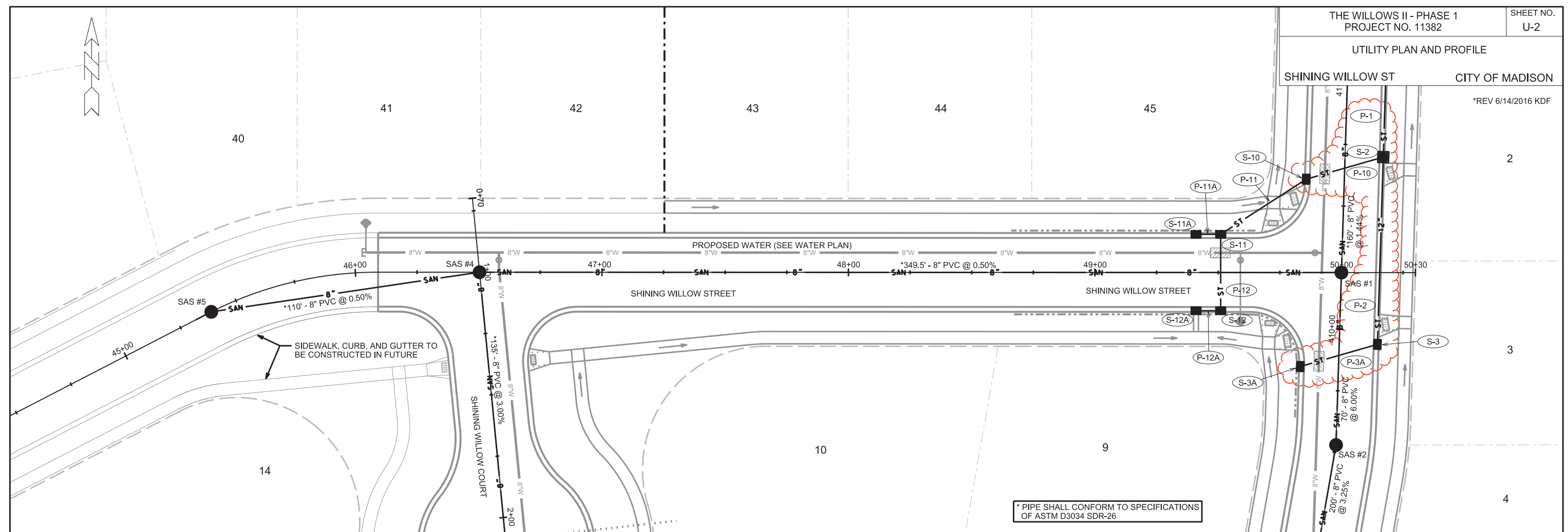
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



\* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26





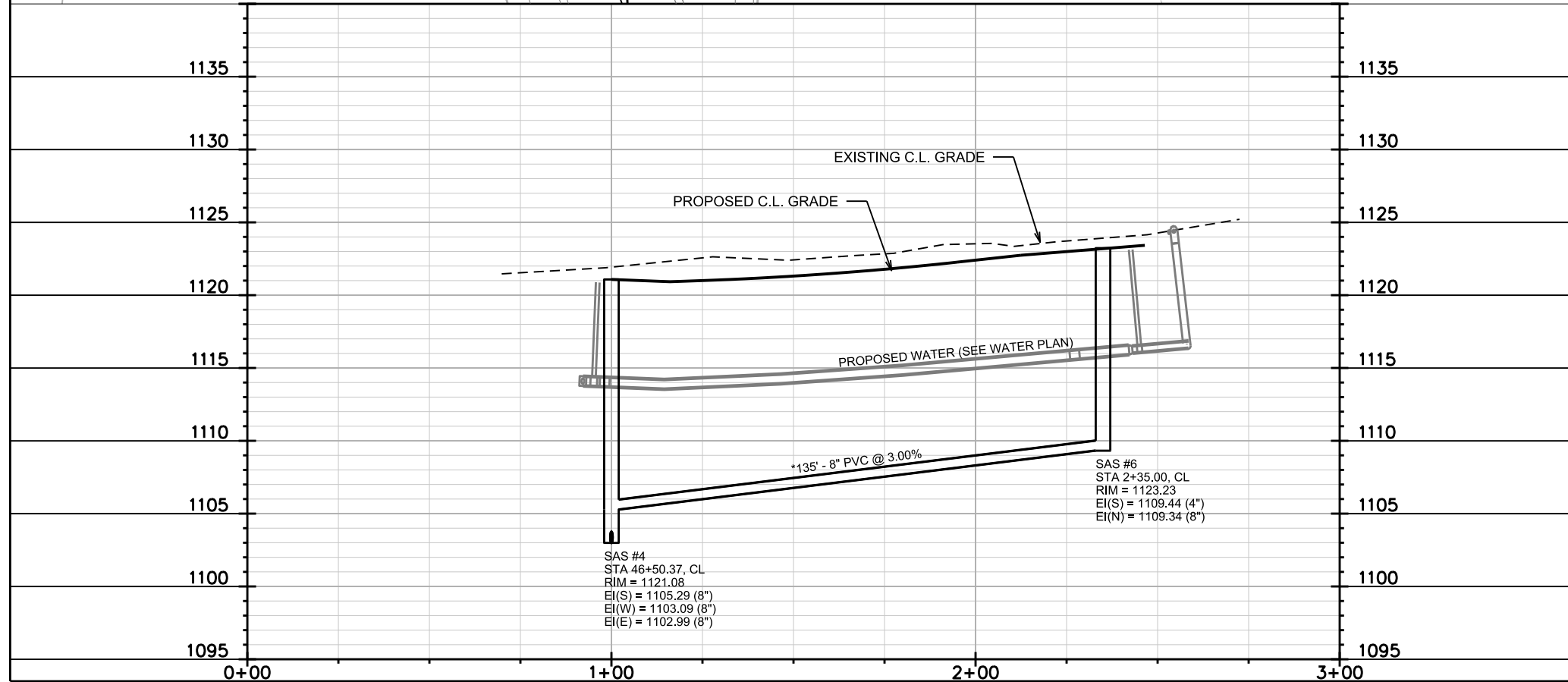
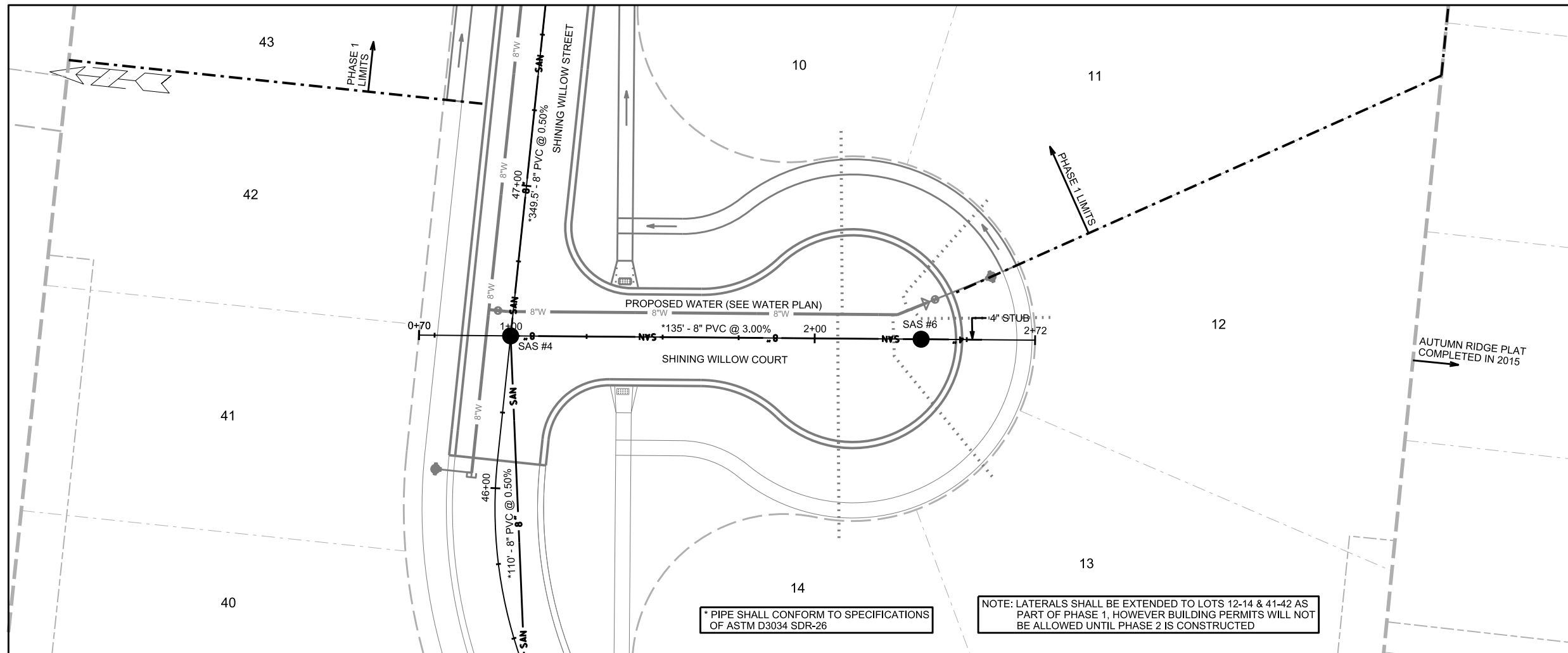
PLOT SCALE:

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

THE WILLOWS II - PHASE 1  
PROJECT NO. 11382

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
<b>BIG STONE TRAIL</b>						
SAS #1	410+23.00	CL	1114.66	1101.14	13.52	-
SAS #2	409+53.03	RT-0.37	1117.06	1105.44	11.62	-
SAS #3	407+53.04	CL	1124.88	1112.04	12.84	-
<b>SHINING WILLOW STREET</b>						
SAS #4	46+50.36	CL	1121.08	1102.99	18.09	-
SAS #5	45+39.02	CL	1120.31	1103.64	16.67	-
<b>SHINING WILLOW COURT</b>						
SAS #6	2+35.00	CL	1123.23	1109.34	13.89	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>BIG STONE TRAIL</b>								
EX SAS #14	SAS #1	1098.83	1101.14	160	1.44%	8"	SDR-26	-
SAS #1	SAS #2	1101.24	1105.44	70	6.00%	8"	SDR-35	-
SAS #2	SAS #3	1105.54	1112.04	200	3.25%	8"	SDR-35	-
<b>SHINING WILLOW STREET</b>								
SAS #1	SAS #4	1101.24	1102.99	349.5	0.50%	8"	SDR-26	-
SAS #4	SAS #5	1103.09	1103.64	110	0.50%	8"	SDR-26	-
<b>SHINING WILLOW COURT</b>								
SAS #4	SAS #6	1105.29	1109.34	135	3.00%	8"	SDR-26	-

## SPECIFIC NOTES

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# STORM SEWER SCHEDULE

\*REVISED 6/14/2016 KDF

THE WILLOWS II - PHASE 1  
PROJECT NO. 11382

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
<b>BIG STONE TRAIL</b>							
S-1	411+82.50	RT-15.50	3X3 SAS	1110.76	1107.08	3.68	(1), W/R-3067-7004-V
* S-2	<b>410+70.36</b>	RT-15.50	3X3 SAS	<b>1113.26</b>	<b>1108.48</b>	<b>4.78</b>	W/R-3067-7004-V
* S-3	<b>409+94.34</b>	RT-15.50	H INLET	<b>1115.67</b>	<b>1112.32</b>	3.35	W/R-3067-7004-V
* S-3A	<b>409+84.38</b>	LT-15.50	H INLET	<b>1115.99</b>	<b>1112.76</b>	3.23	UD, W/R-3067-7004-V
S-10	410+60.41	LT-15.50	H INLET	1113.57	1109.58	3.99	W/R-3067-7004-V
<b>SHINING WILLOW STREET</b>							
S-11	49+51.00	LT-15.50	H INLET	1114.27	1110.35	3.92	(2), FP, LP, UD, W/R-3067-7004-VB
S-11A	49+41.00	LT-15.50	H INLET	1114.22	1110.92	3.30	UD, W/R-3067-7004-V
S-12	49+51.00	RT-15.50	H INLET	1114.38	1110.89	3.49	(2), LP, UD, W/R-3067-7004-VB
S-12A	49+41.00	RT-15.50	H INLET	1114.22	1111.21	3.01	UD, W/R-3067-7004-V

## 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
<b>BIG STONE TRAIL</b>										
* P-1	S-1	S-2	1107.08	<b>1108.48</b>	<b>112</b>	<b>109</b>	<b>1.28%</b>	24"	RCP	-
* P-2	S-2	S-3	<b>1109.48</b>	<b>1112.32</b>	<b>76</b>	<b>73</b>	<b>3.89%</b>	12"	RCP	-
* P-3A	S-3	S-3A	<b>1112.32</b>	<b>1112.76</b>	<b>32.5</b>	<b>30.5</b>	<b>1.44%</b>	12"	RCP	-
* P-10	S-2	S-10	<b>1108.98</b>	1109.58	<b>32.5</b>	30	2.00%	18"	RCP	-
<b>SHINING WILLOW STREET</b>										
P-11	S-10	S-11	1109.58	1110.35	41	38.3	2.01%	18"	RCP	-
P-11A	S-11	S-11A	1110.85	1110.92	10	7	1.00%	12"	RCP	-
P-12	S-11	S-12	1110.60	1110.89	31	29	1.00%	15"	RCP	-
P-12A	S-12	S-12A	1111.14	1111.21	10	7	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

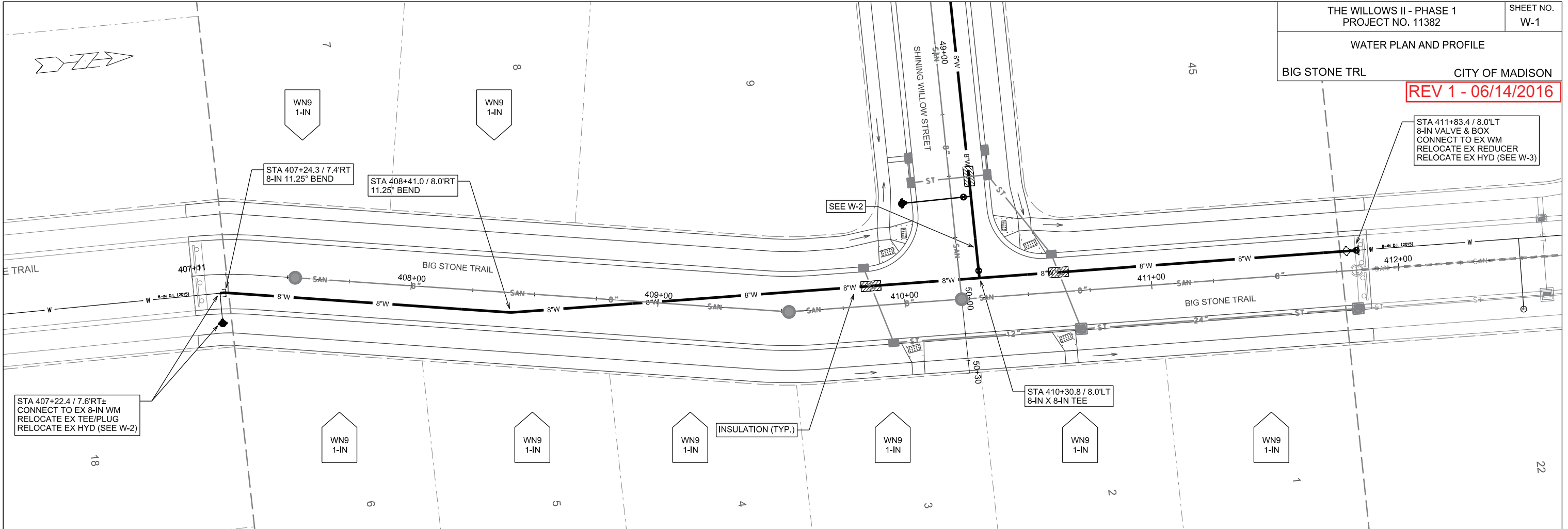
- (1) REMOVE EXISTING 24" PIPE PLUG
- (2) TAP 2" PVC PIPE INTO THE FRONT OF THE INLET AND ELBOW PIPE UP TO THE TOP OF BINDER LATER. PIPE SHALL SURFACE IN FRONT OF THE CURB

WATER PLAN AND PROFILE

BIG STONE TRL CITY OF MADISON

REV 1 - 06/14/2016

STA 411+83.4 / 8.0'LT  
8-IN VALVE & BOX  
CONNECT TO EX WM  
RELOCATE EX REDUCER  
RELOCATE EX HYD (SEE W-3)



PLOT SCALE:

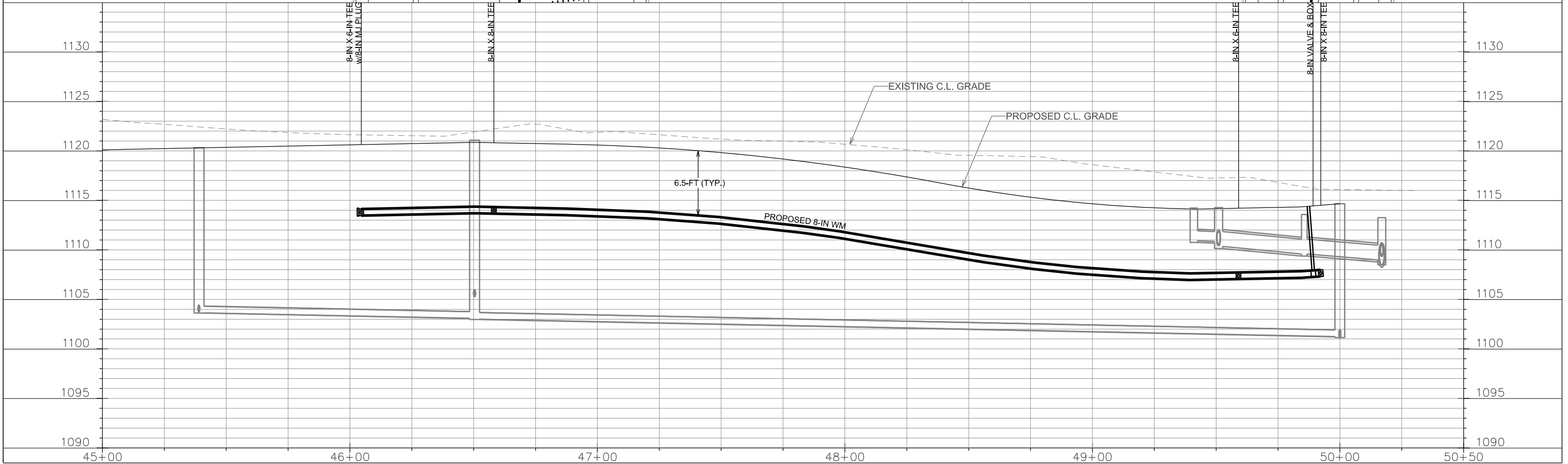
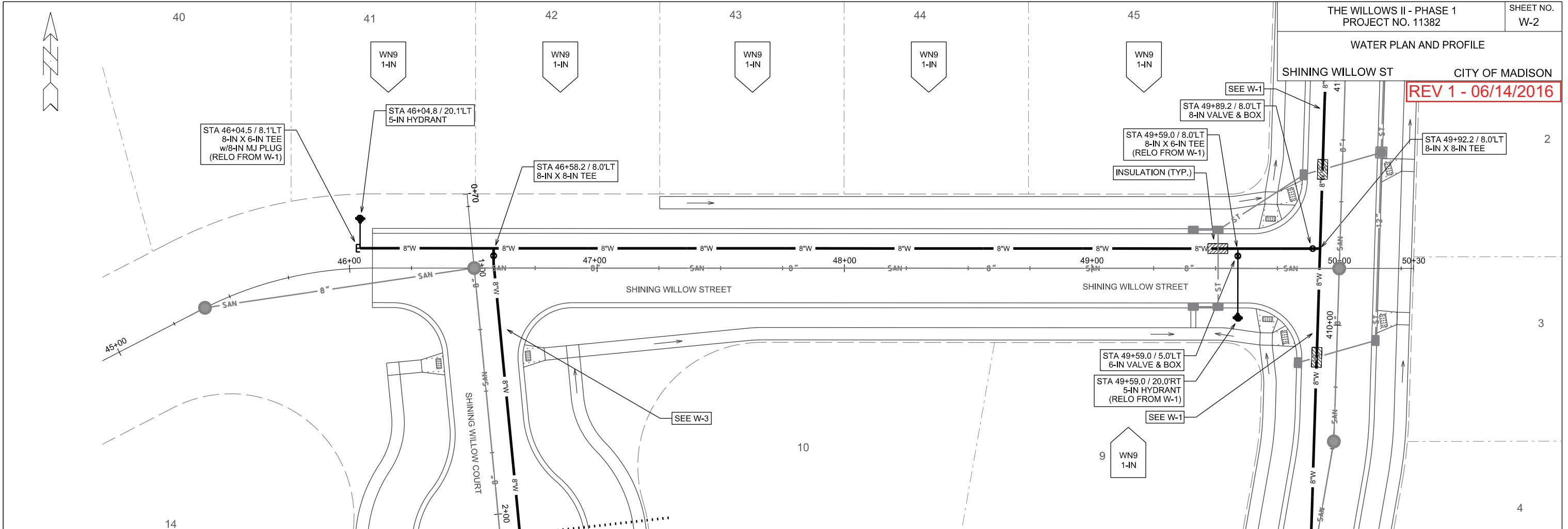
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
SHINING WILLOW ST CITY OF MADISON

REV 1 - 06/14/2016

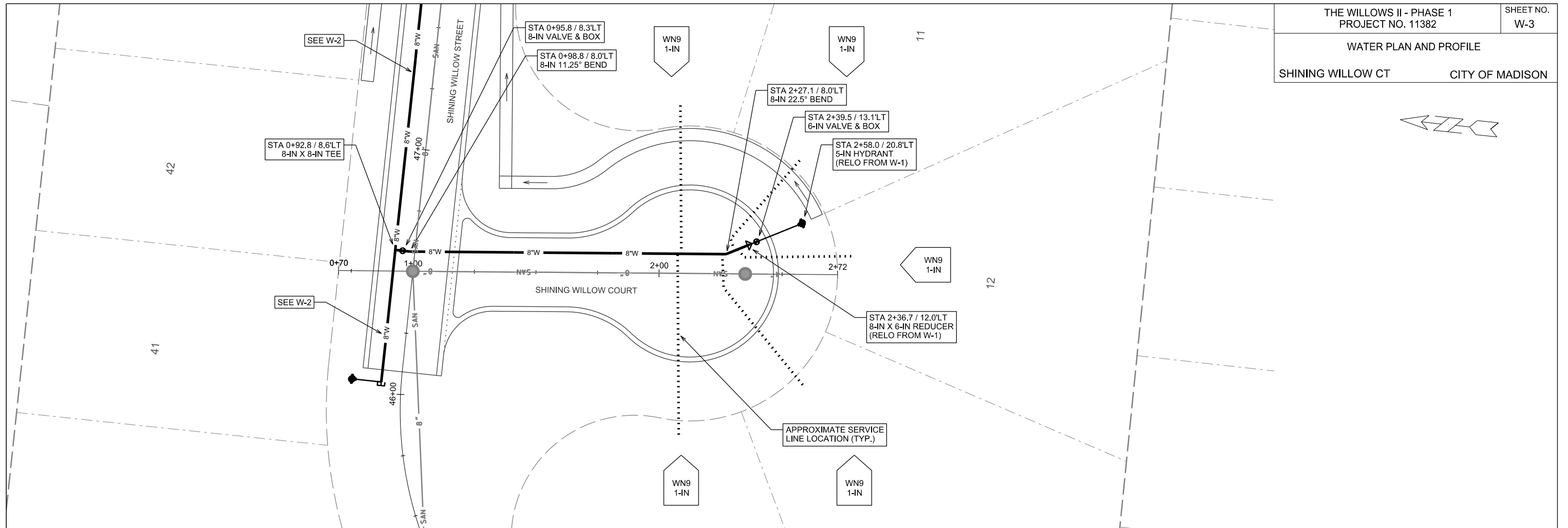
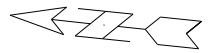


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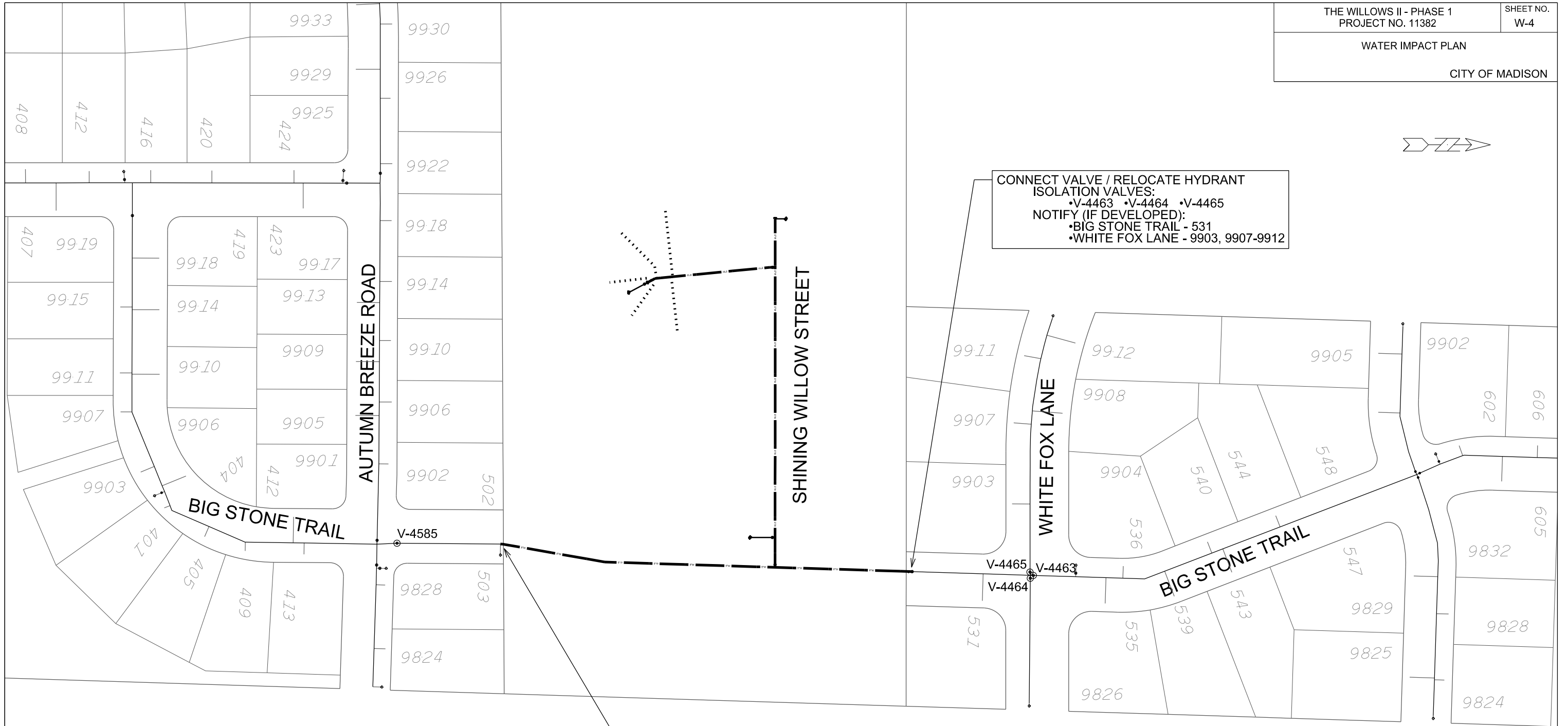
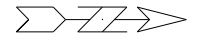


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONNECT VALVE / RELOCATE HYDRANT  
ISOLATION VALVES:  
•V-4463 •V-4464 •V-4465  
NOTIFY (IF DEVELOPED):  
•BIG STONE TRAIL - 531  
•WHITE FOX LANE - 9903, 9907-9912

CONNECT BEND / RELOCATE HYDRANT  
ISOLATION VALVES:  
•V-4585  
NOTIFY:  
•NONE

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

PLOT SCALE:

PLOT NAME:

REV. DATE:

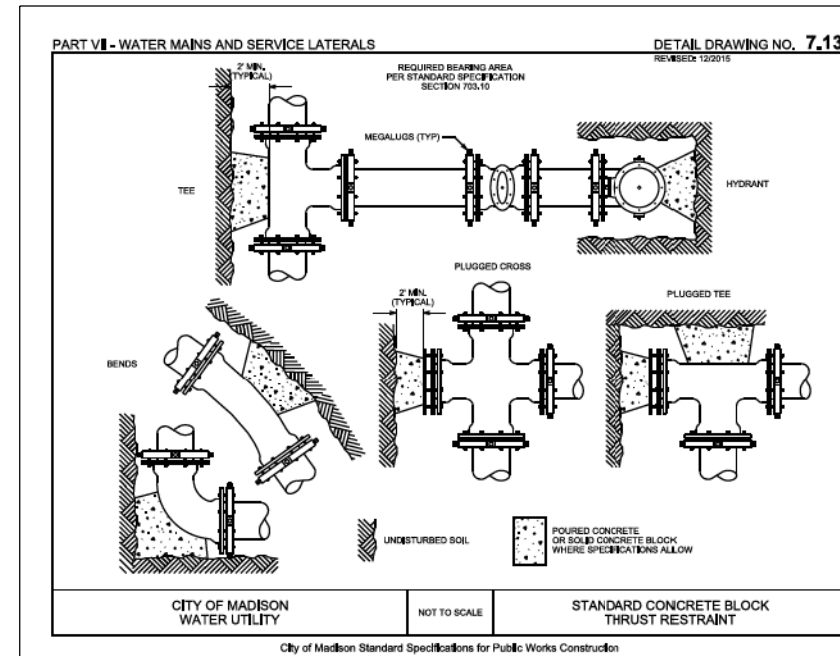
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**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.

 INDICATES INSULATION AT STORM SEWER CROSSING

- 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



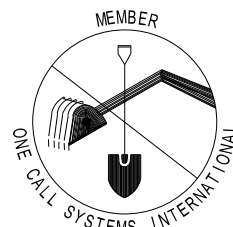
**ESTIMATE OF PROJECT MATERIALS:**

\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.

WATER MAIN AND FITTING MATERIALS	
6-IN PIPE (LF)	65
8-IN PIPE (LF)	1000
POLY WRAP (LF)	1200
6-IN VALVES & BOXES	2
8-IN VALVES & BOXES	3
8-IN 11.25° BENDS	3
6-IN 22.5° BENDS	1
8-IN X 6-IN TEES	1
8-IN X 8-IN TEES	2
5-IN HYDRANTS	1
<b>REUSED MATERIALS</b>	
5-IN HYDRANTS	2
8-IN X 6-IN TEES	1
8-IN MJ PLUGS	1
8-IN X 6-IN REDUCERS	1
<b>MISC. MATERIALS</b>	
INSULATION (LF)	24
COPPER TUBING (1-IN TO 2-IN)	AS REQ

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.

