

Madison, Wisconsin

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CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

JULY 19, 2016

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

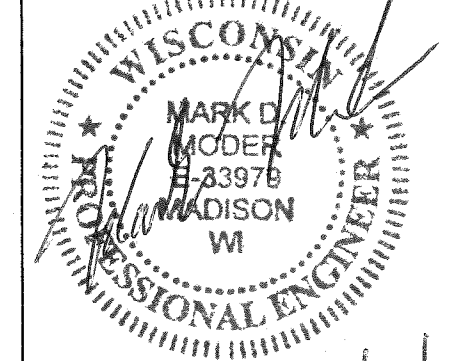
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature]
City Engineer Date

STREET DESIGNED BY:

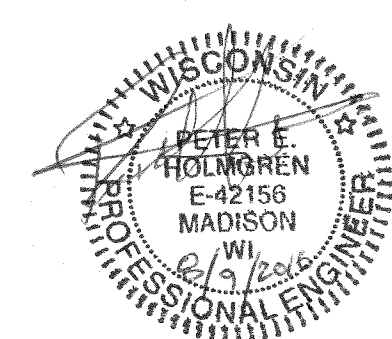


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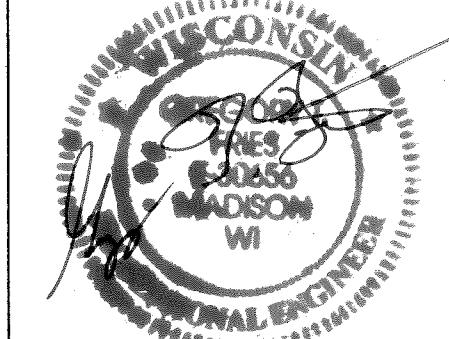


8/12/16

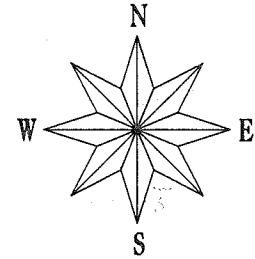
WATER DESIGNED BY:



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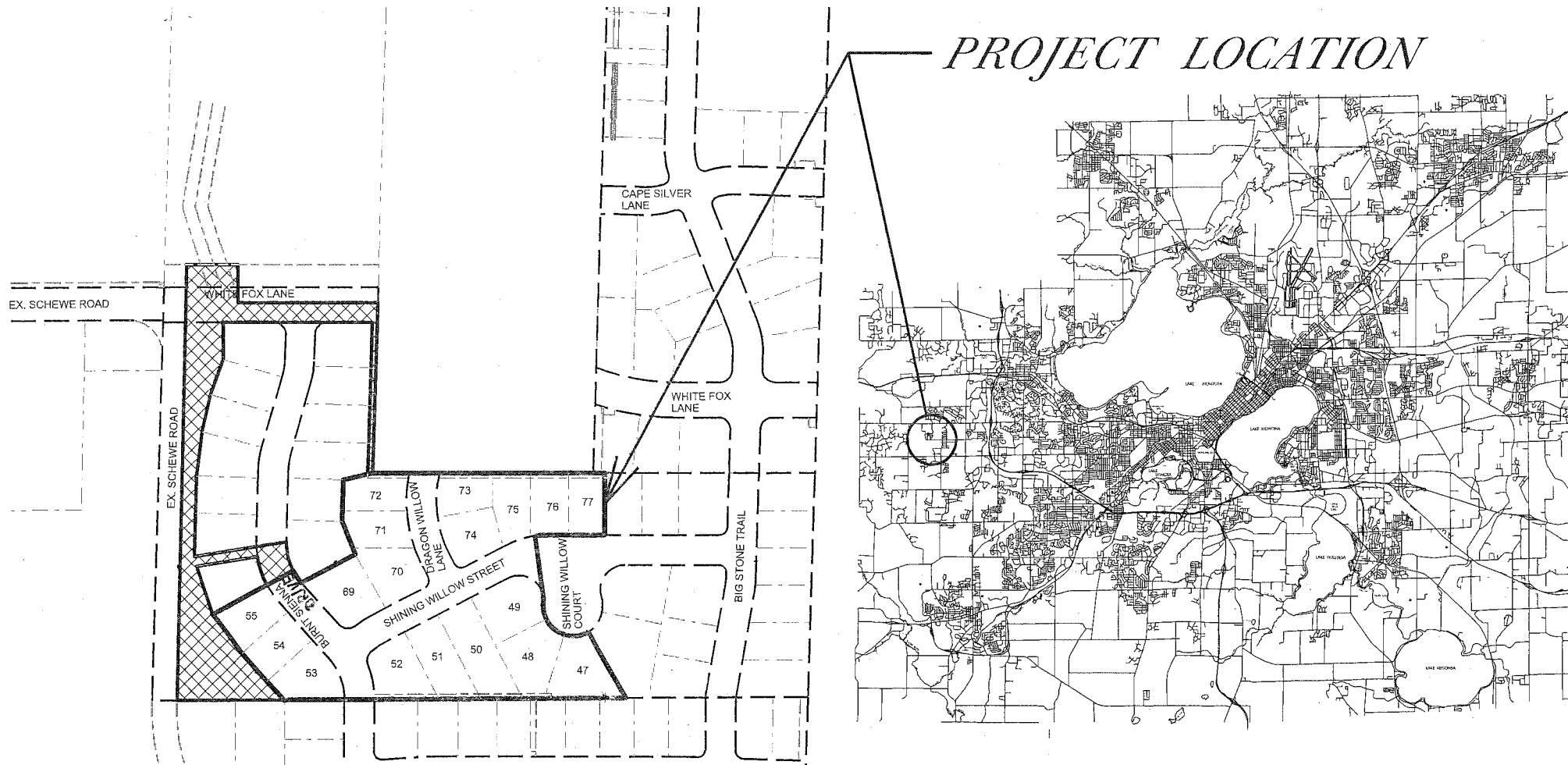


THE WILLOWS II: PHASE 2
CITY PROJECT NO. 11402
CITY CONTRACT NO. 7733
MUNIS NO. 11402



= OUT OF PHASE UTILITY AND STORMWATER MANAGEMENT POND WORK

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.

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.

SHINING WILLOW STREET AND DRAGON WILLOW LANE SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

BURNT SIENNA DRIVE SHALL BE TYPE B 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 

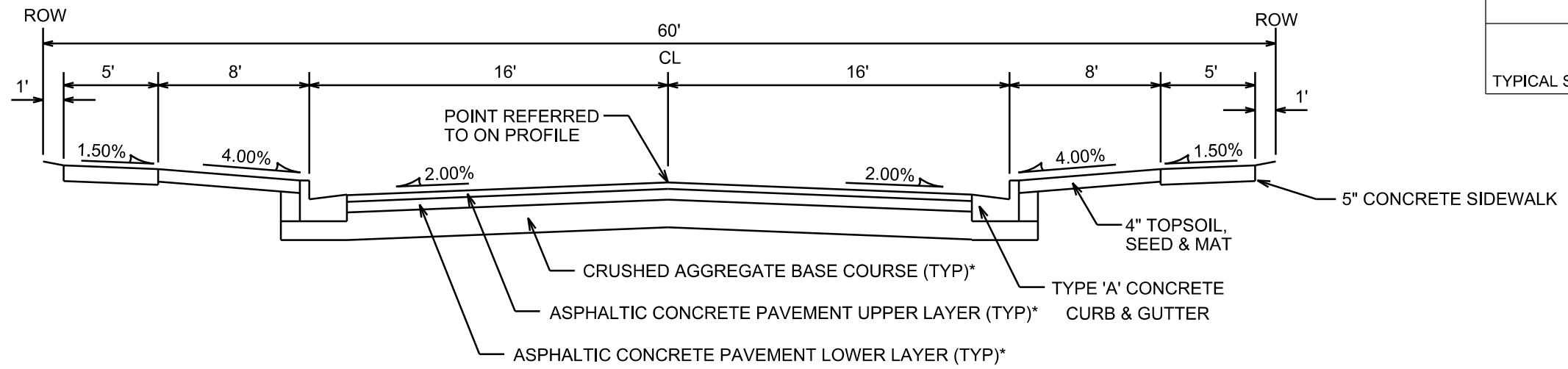
COMBUSTIBLE FLUIDS 

PLOT SCALE: _____

PLOT NAME: _____

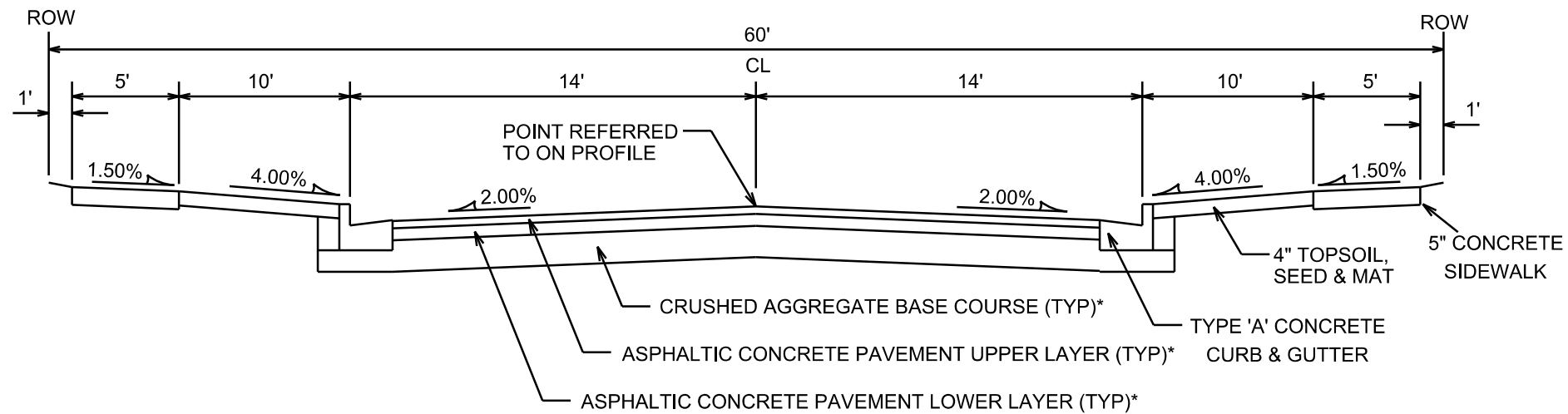
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

BURNT SIENNA DRIVE
SHINING WILLOW STREET



TYPICAL SECTION

DRAGON 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

- * BURNT SIENNA DRIVE TO BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.
- * SHINING WILLOW STREET TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.
- * DRAGON WILLOW LANE TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.

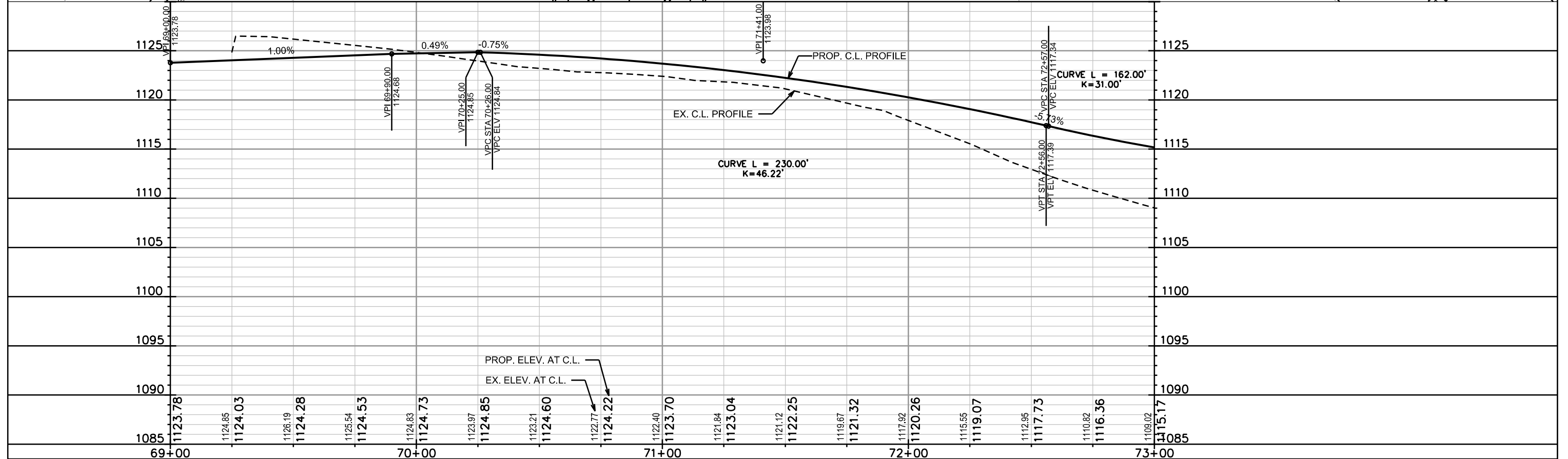
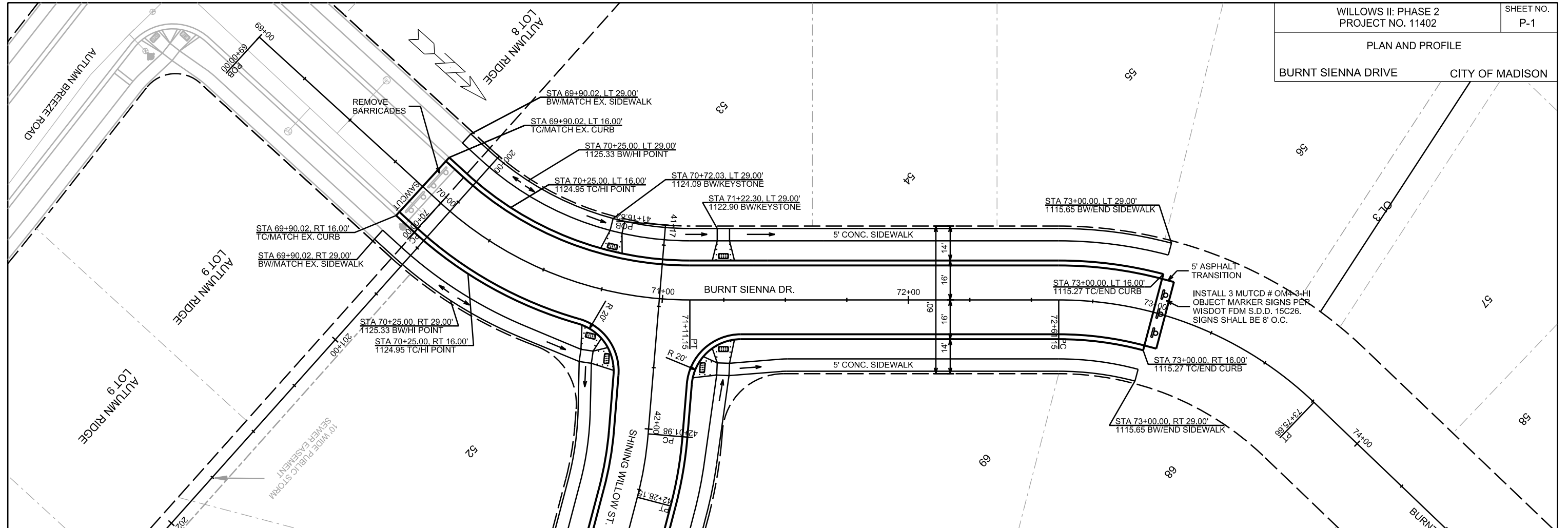
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
BURNT SIENNA DRIVE CITY OF MADISON



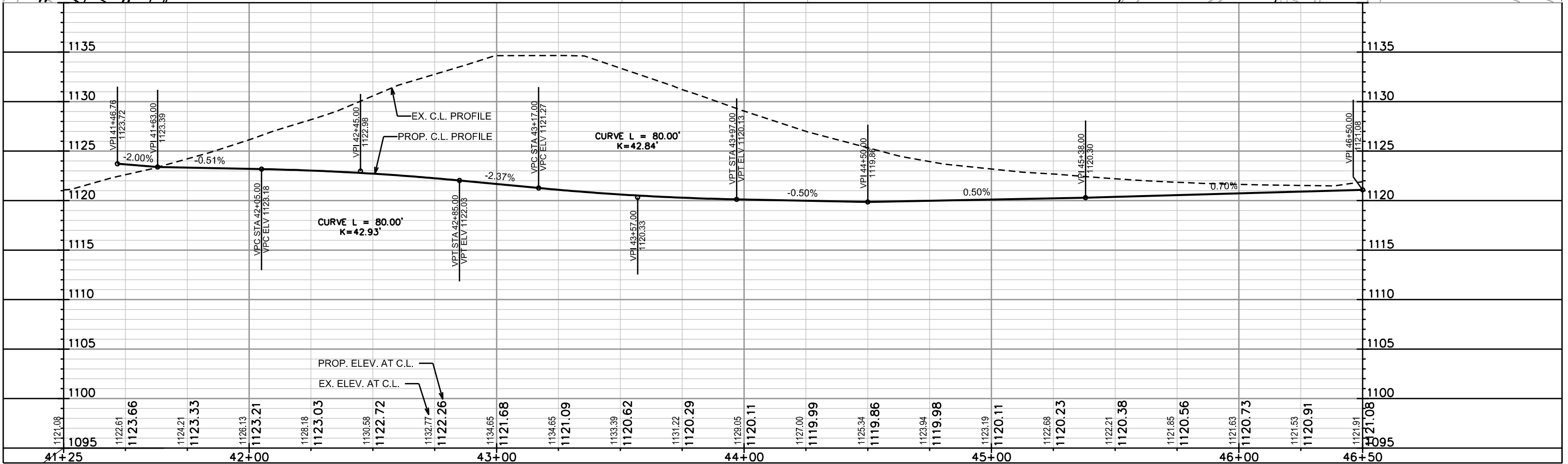
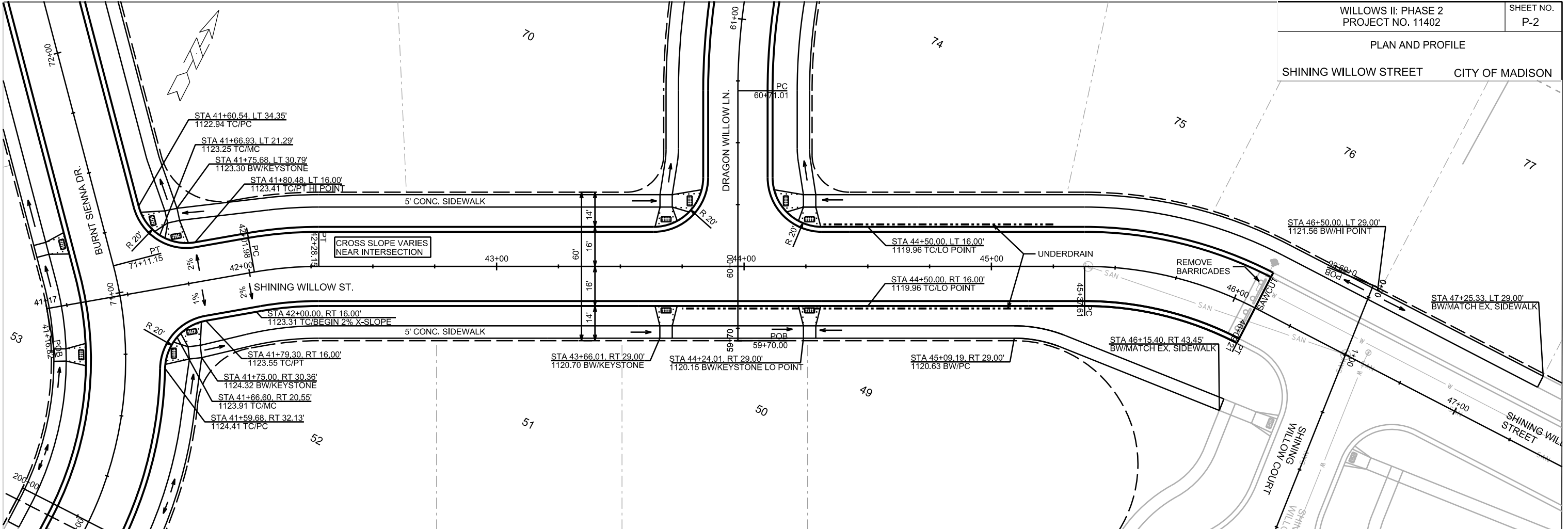
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
SHINING WILLOW STREET CITY OF MADISON



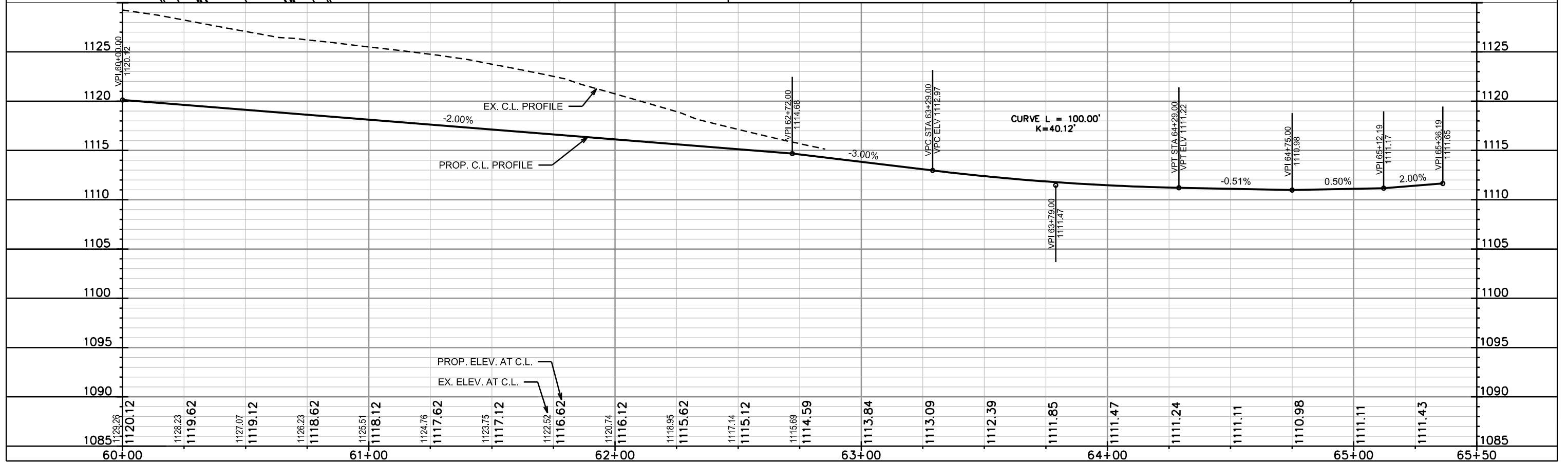
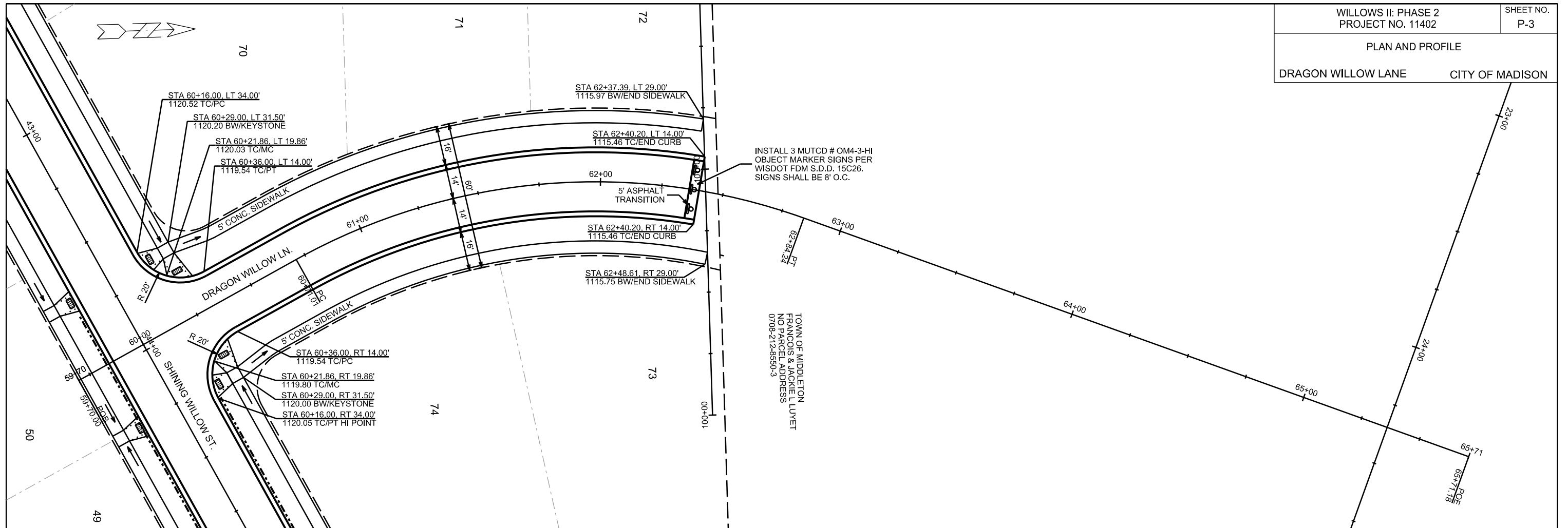
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
DRAGON WILLOW LANE CITY OF MADISON



PLOT SCALE: _____

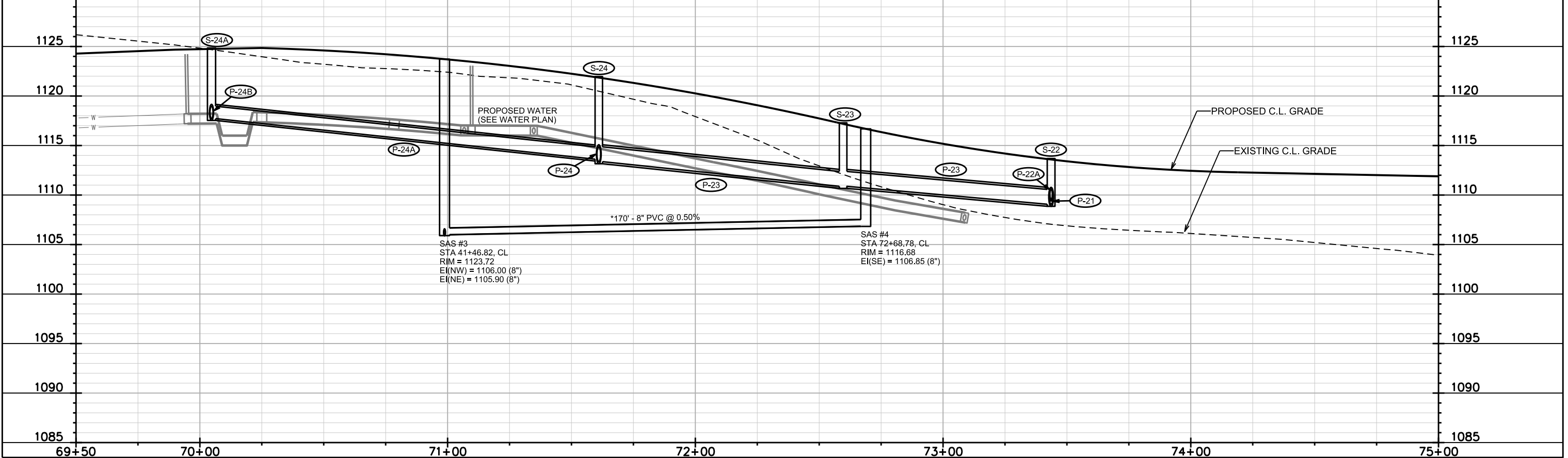
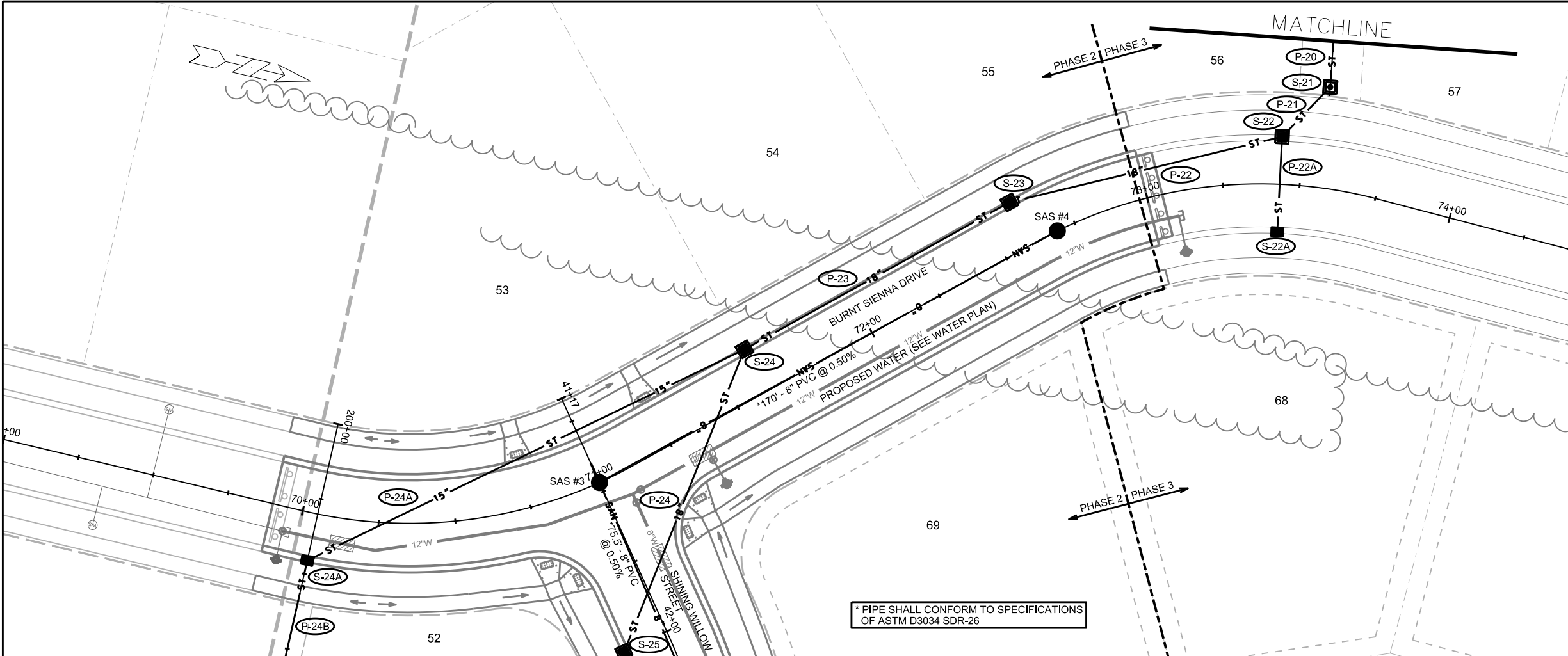
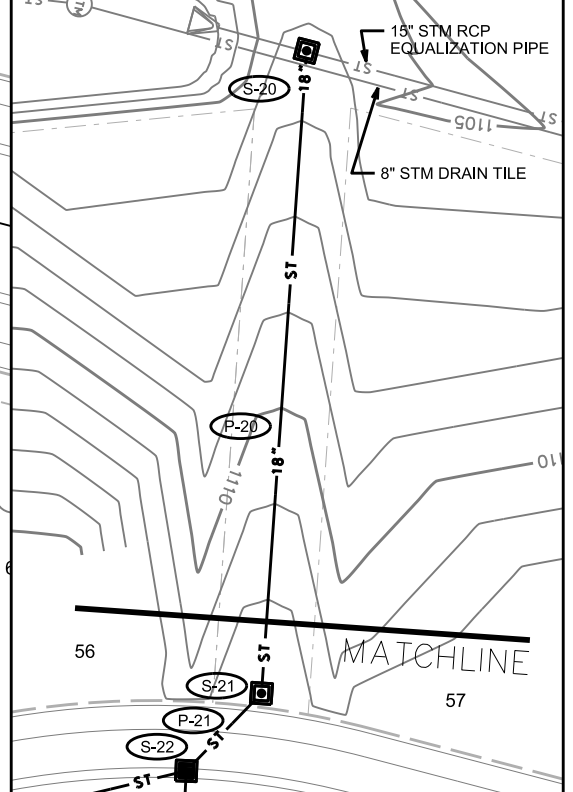
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

BURNT SIENNA DRIVE CITY OF MADISON



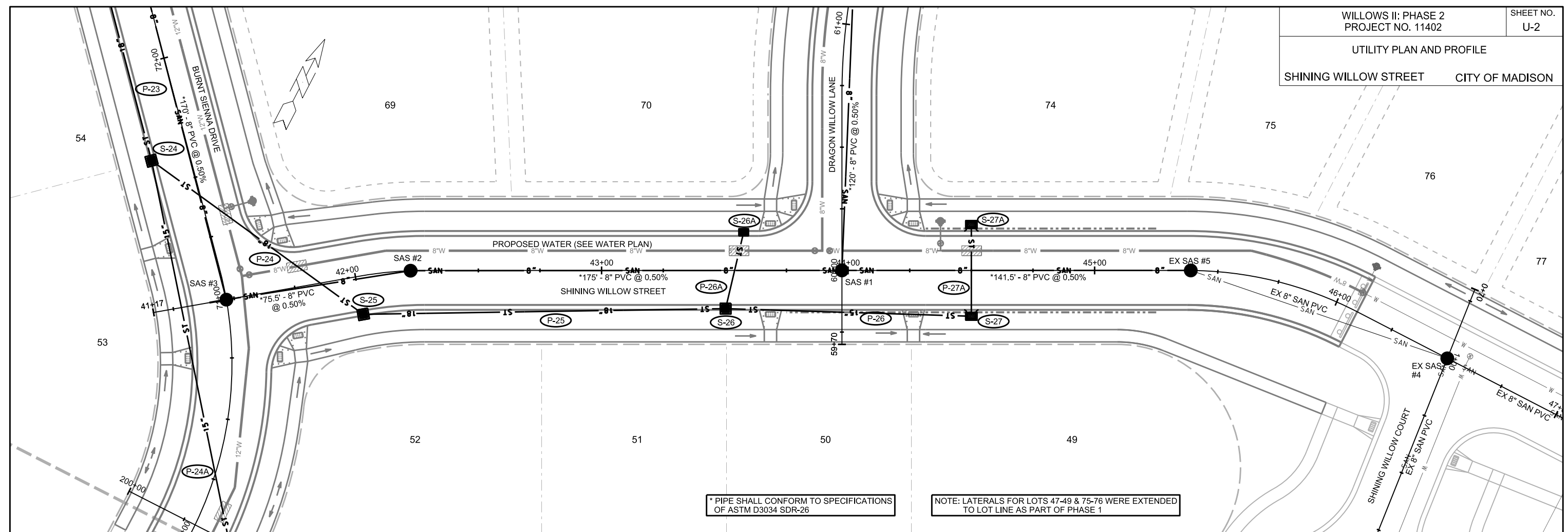
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PLOT NAME:

REV. DATE:

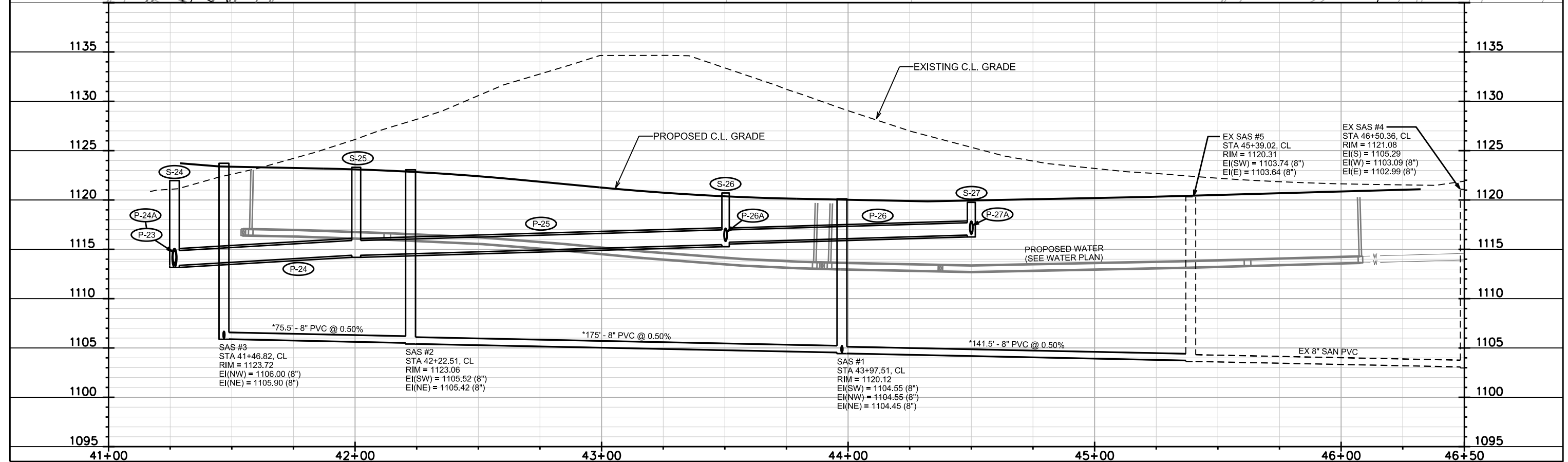
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE
SHINING WILLOW STREET CITY OF MADISON



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

NOTE: LATERALS FOR LOTS 47-49 & 75-76 WERE EXTENDED TO LOT LINE AS PART OF PHASE 1



SAS #3
STA 41+46.82, CL
RIM = 1123.72
EI(NW) = 1106.00 (8")
EI(NE) = 1105.90 (8")

SAS #2
STA 42+22.51, CL
RIM = 1123.06
EI(SW) = 1105.52 (8")
EI(NE) = 1105.42 (8")

SAS #1
STA 43+97.51, CL
RIM = 1120.12
EI(SW) = 1104.55 (8")
EI(NW) = 1104.55 (8")
EI(NE) = 1104.45 (8")

EX SAS #5
STA 45+39.02, CL
RIM = 1120.31
EI(SW) = 1103.74 (8")
EI(E) = 1103.64 (8")

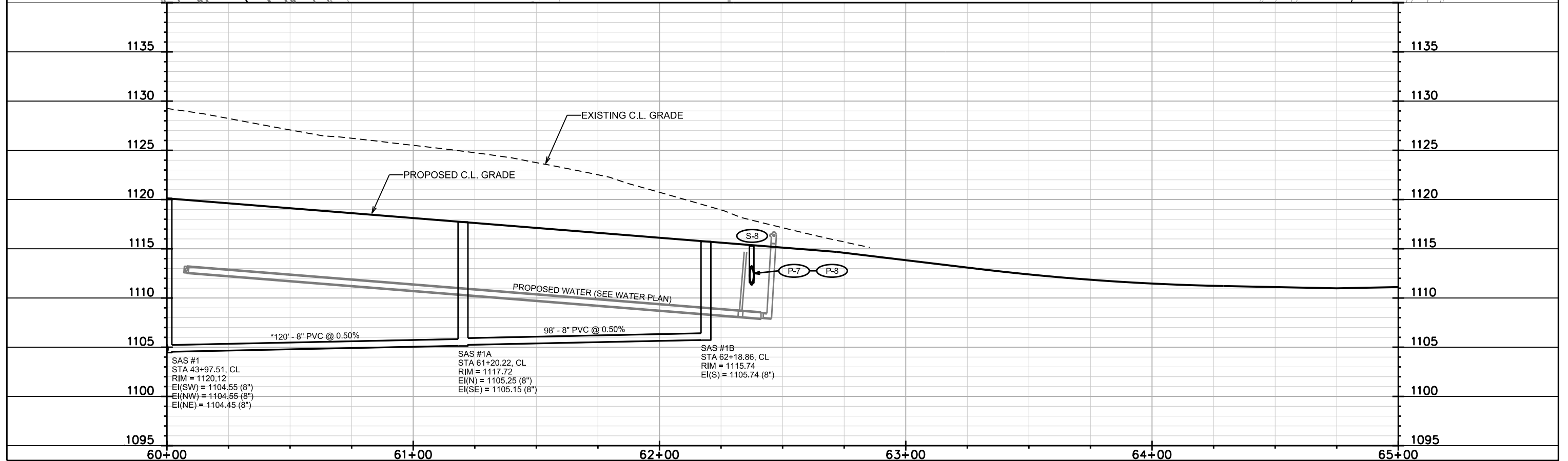
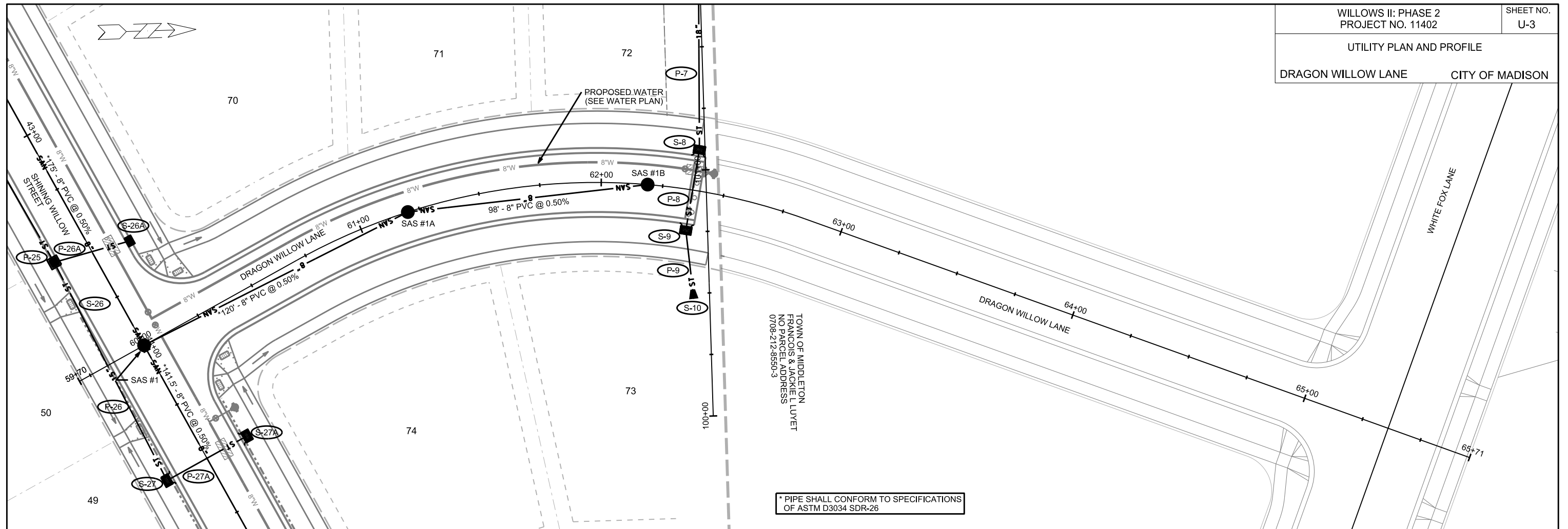
EX SAS #4
STA 46+50.36, CL
RIM = 1121.08
EI(S) = 1105.29
EI(W) = 1103.09 (8")
EI(E) = 1102.99 (8")

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

PLOT NAME:

REV. DATE:

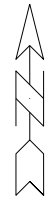
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CITY OF MADISON
MIDDLETON COMMUNITY CHURCH
645 SCHEWE RD
0708-212-0101-2

WILLOWS II: PHASE 2
PROJECT NO. 11402

SHEET NO.
U-4

UTILITY PLAN AND PROFILE
SCHEWE ROAD /
WHITE FOX LANE
CITY OF MADISON



TOWN OF MIDDLETON
RICKIE & SHAWN TRINKO
3978 SCHEWE RD
0708-201-8400-0

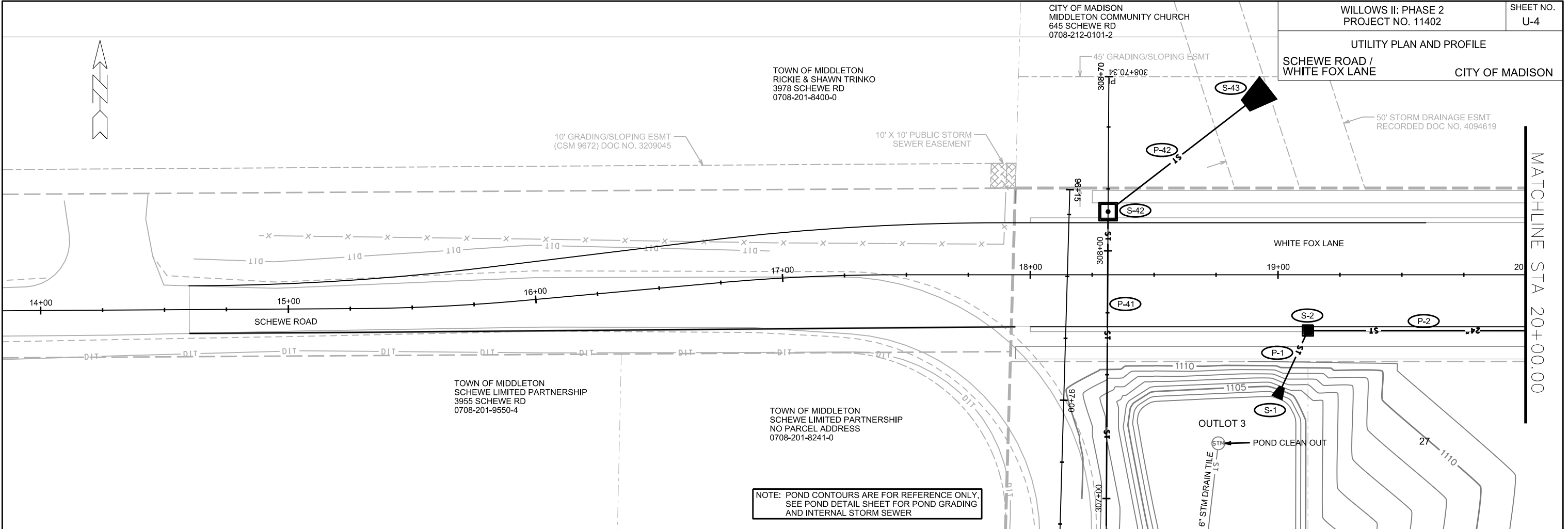
10' GRADING/SLOPING ESMT
(CSM 9672) DOC NO. 3209045

10' X 10' PUBLIC STORM
SEWER EASEMENT

45' GRADING/SLOPING ESMT
BC 02+800

50' STORM DRAINAGE ESMT
RECORDED DOC NO. 4094619

MATCHLINE STA 20+00.00



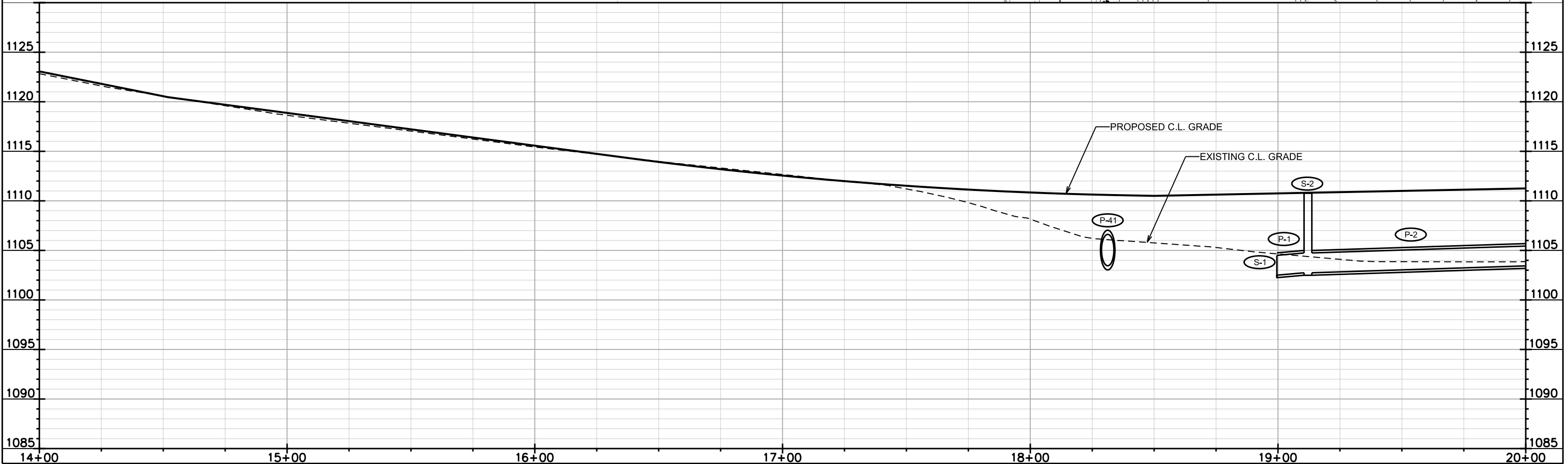
TOWN OF MIDDLETON
SCHEWE LIMITED PARTNERSHIP
3955 SCHEWE RD
0708-201-9550-4

TOWN OF MIDDLETON
SCHEWE LIMITED PARTNERSHIP
NO PARCEL ADDRESS
0708-201-8241-0

NOTE: POND CONTOURS ARE FOR REFERENCE ONLY,
SEE POND DETAIL SHEET FOR POND GRADING
AND INTERNAL STORM SEWER

OUTLOT 3
POND CLEAN OUT

6" STM DRAIN TILE



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

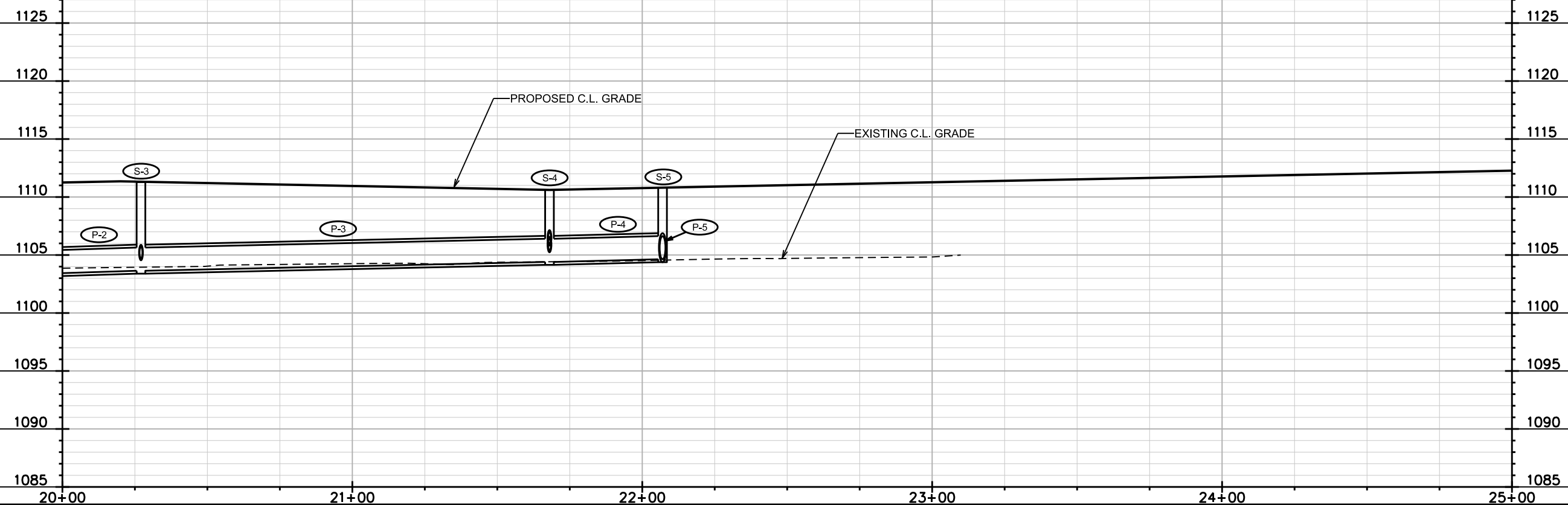
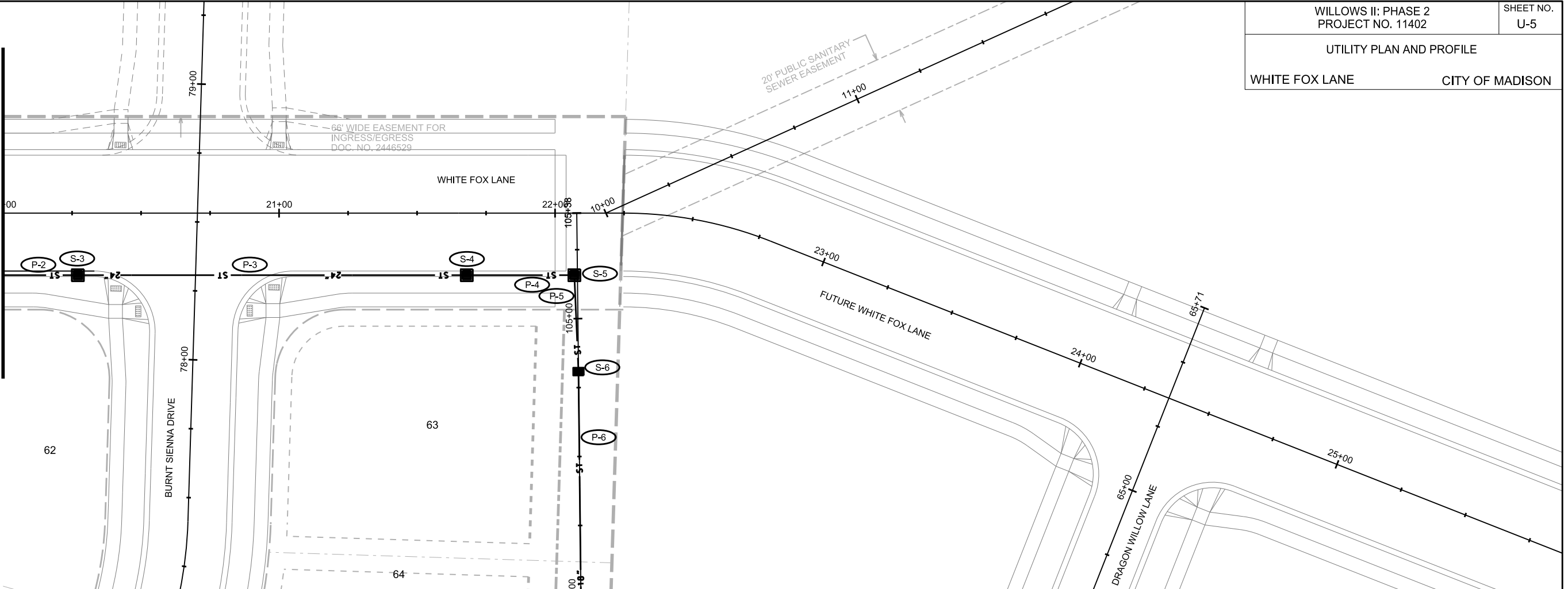
UTILITY PLAN AND PROFILE

WHITE FOX LANE

CITY OF MADISON



MATCHLINE STA 20+00.00



PLOT SCALE:

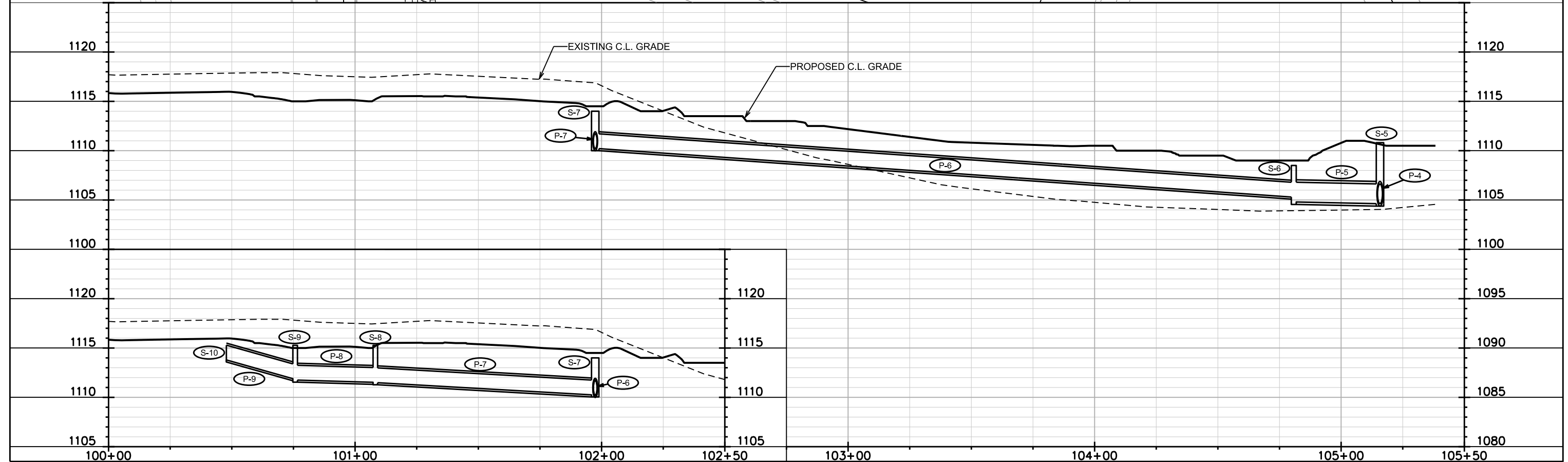
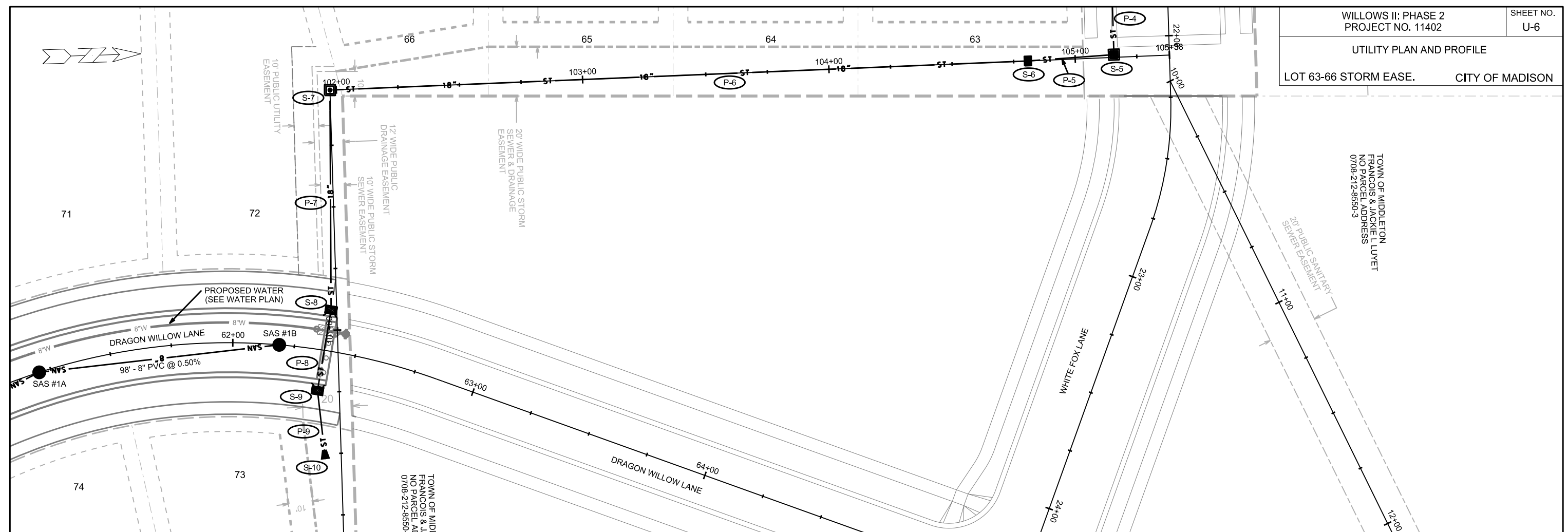
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

LOT 63-66 STORM EASE. CITY OF MADISON



PLOT SCALE:

PLOT NAME:

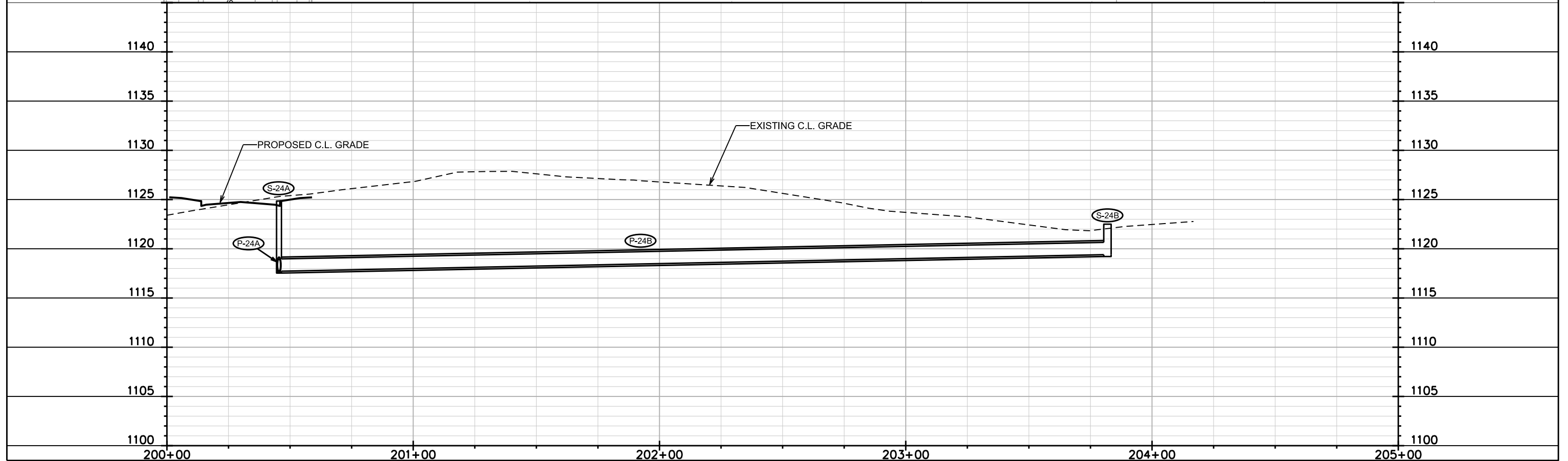
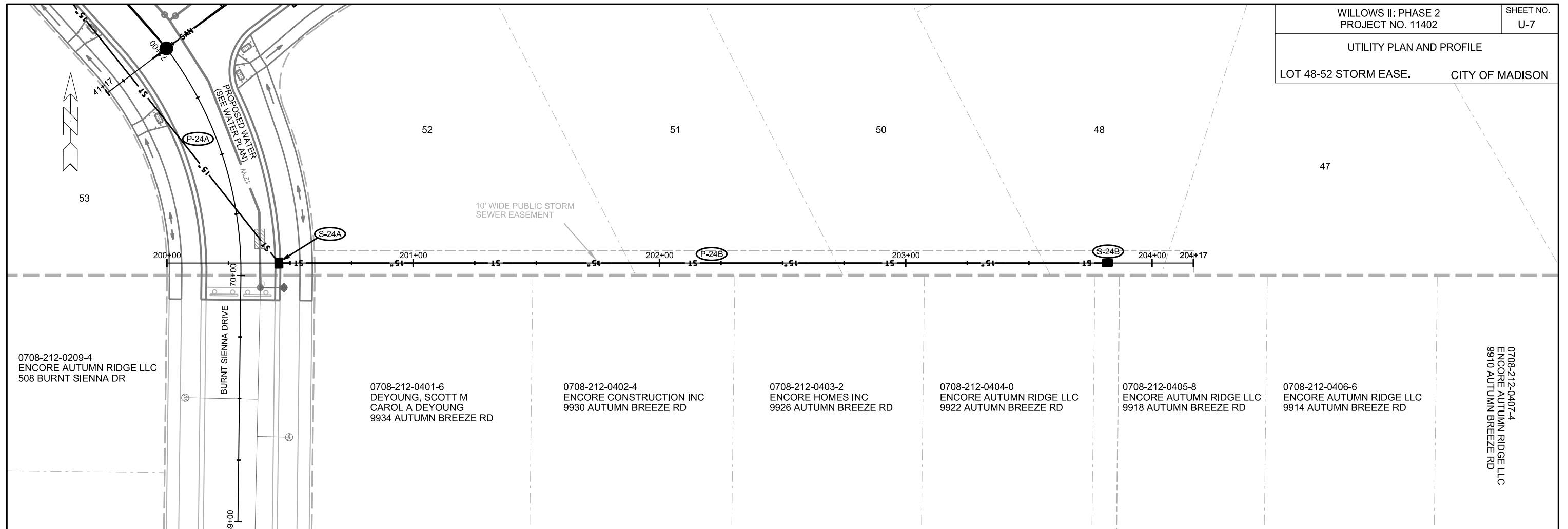
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

LOT 48-52 STORM EASE.

CITY OF MADISON

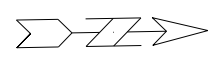


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

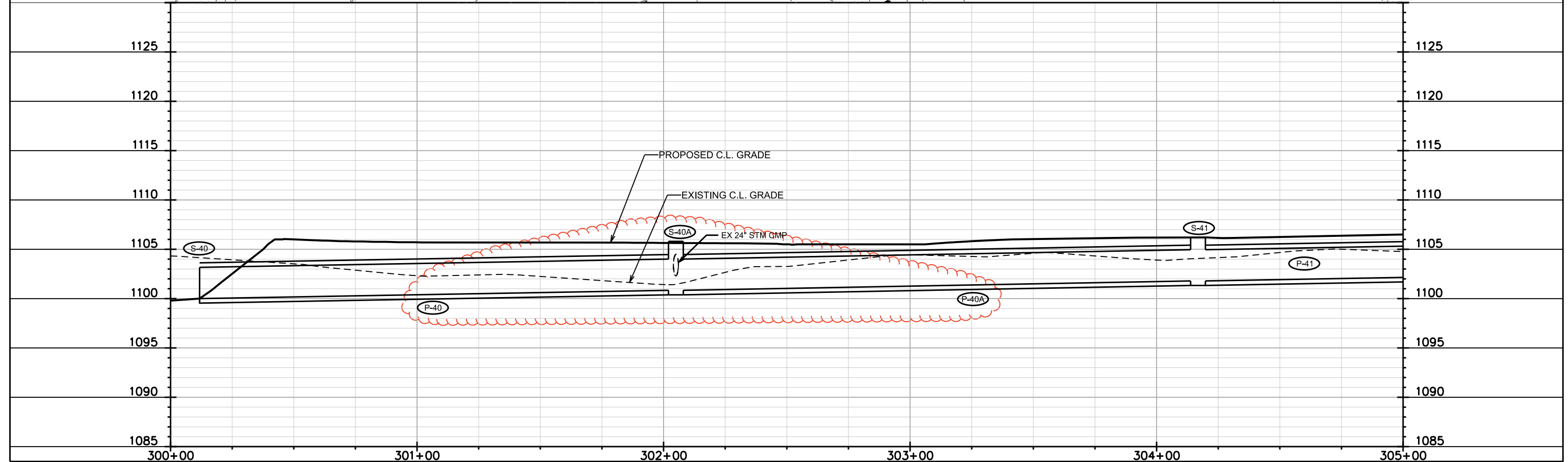
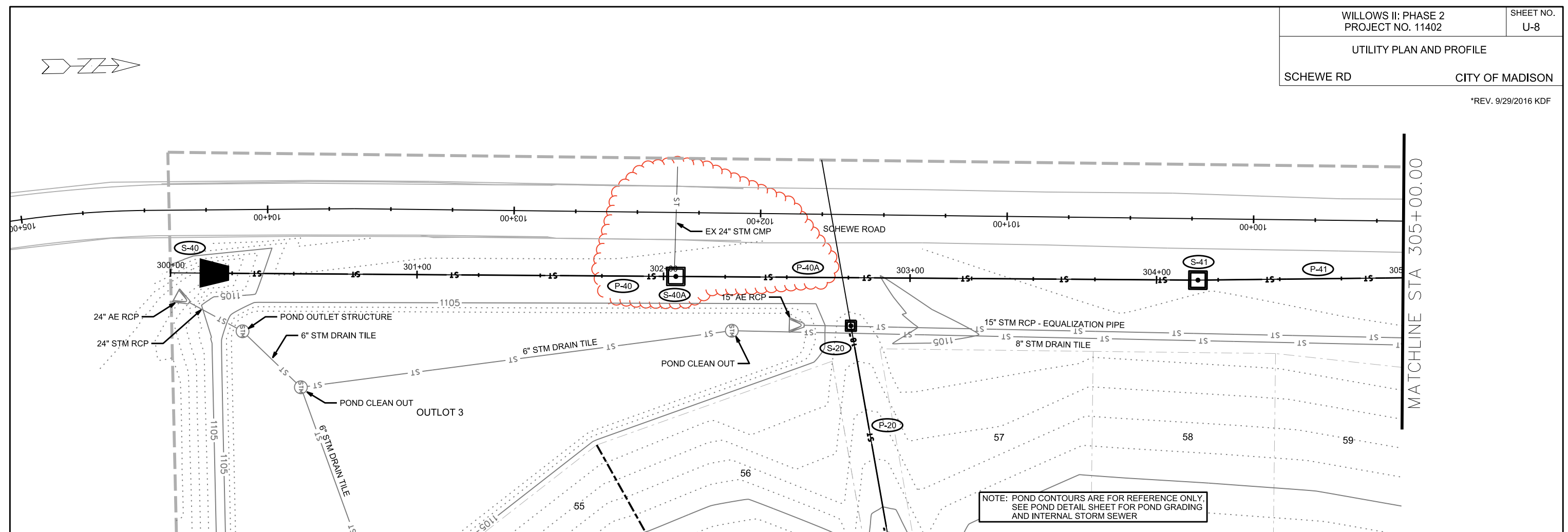


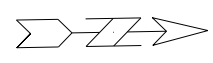
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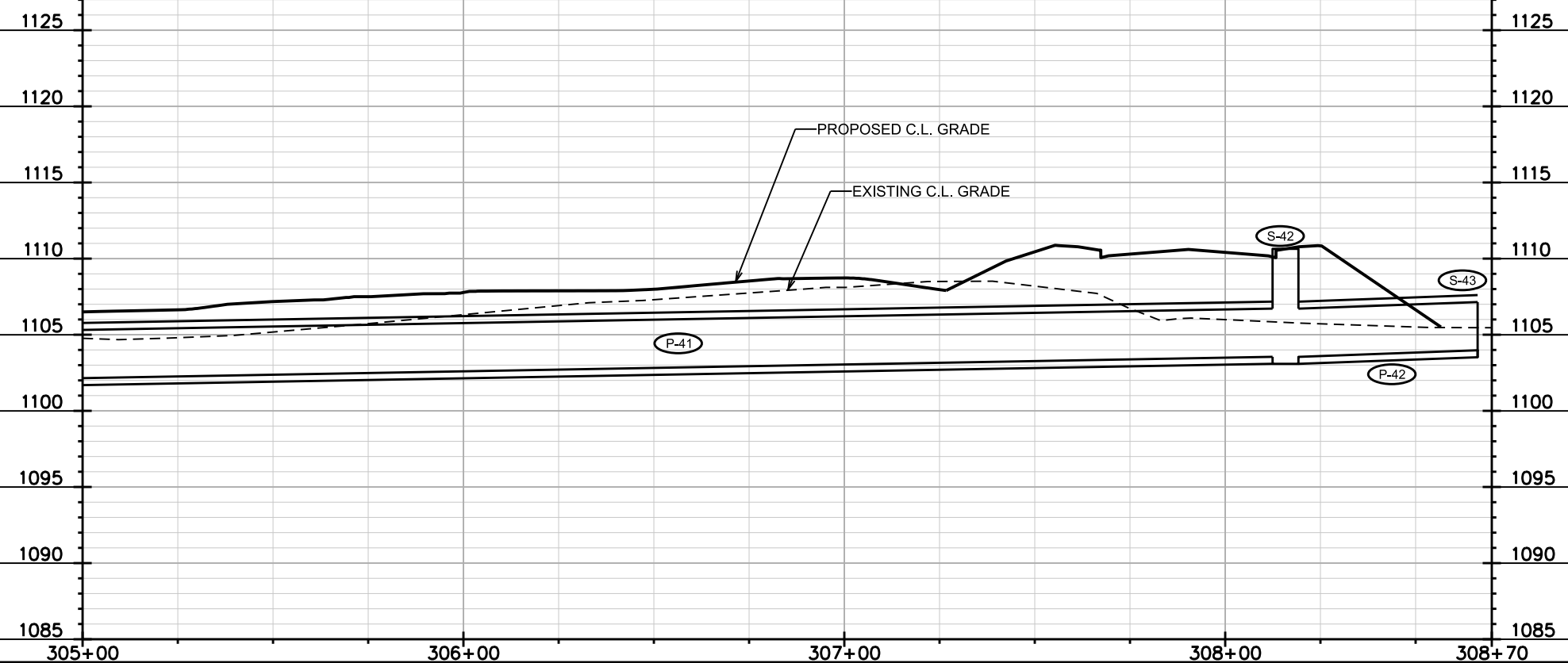
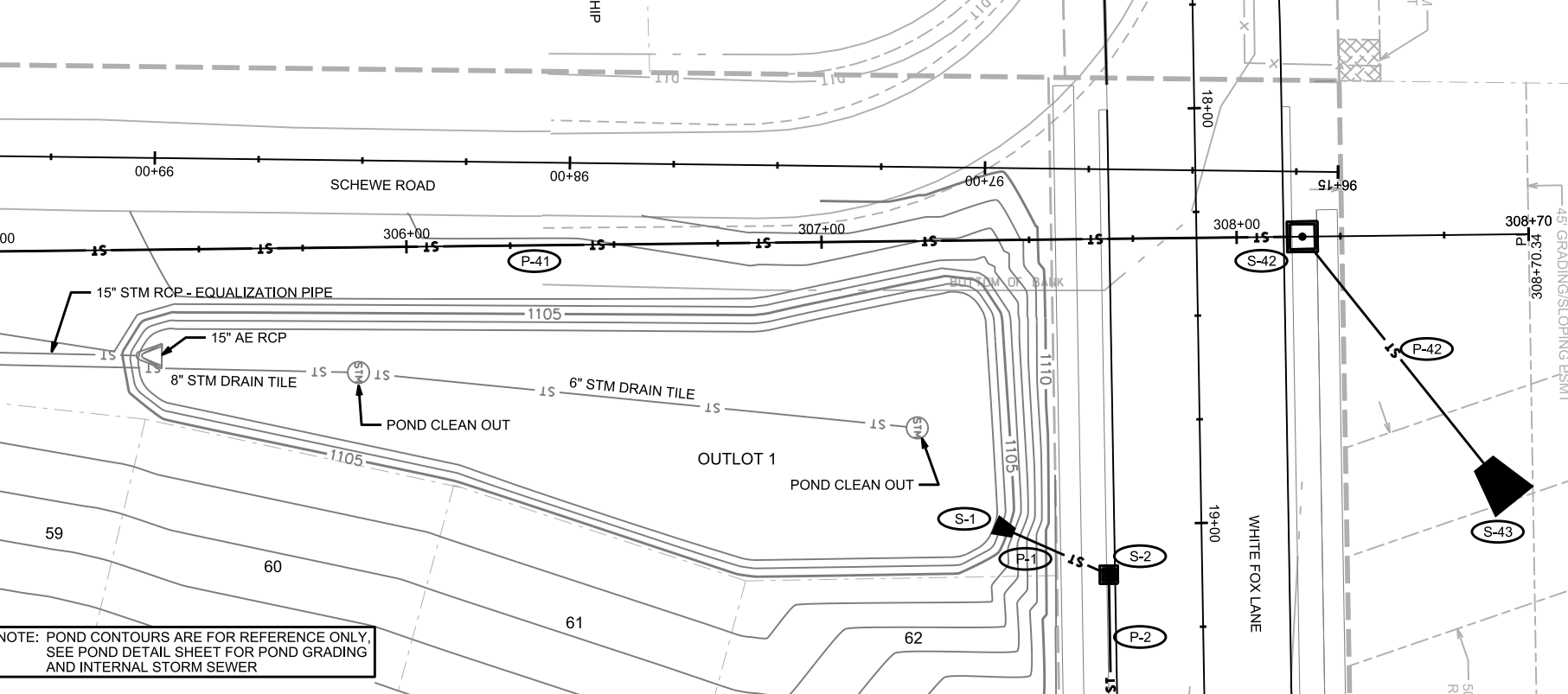
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





MATCHLINE STA 305+00.00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

THE WILLOWS II: PHASE 2
PROJECT NO. 11402

SHEET NO.
U-10

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SHINING WILLOW STREET						
SAS #1	43+97.51	CL	1120.12	1104.45	15.67	-
SAS #2	42+22.51	CL	1123.06	1105.42	17.64	-
SAS #3	41+46.82	CL	1123.72	1105.90	17.82	-
DRAGON WILLOW LANE						
SAS #1A	61+20.22	CL	1117.72	1105.15	12.57	-
SAS #1B	62+18.86	CL	1115.74	1105.74	10.00	-
BURNT SIENNA DRIVE						
SAS #4	72+68.78	CL	1116.68	1106.85	9.83	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
SHINING WILLOW STREET								
EX SAS #5	SAS #1	1103.74	1104.45	141.5	0.50%	8"	SDR-26	-
SAS #1	SAS #2	1104.55	1105.42	175	0.50%	8"	SDR-26	-
SAS #2	SAS #3	1105.52	1105.90	75.5	0.50%	8"	SDR-26	-
DRAGON WILLOW LANE								
SAS #1	SAS #1A	1104.55	1105.15	120	0.50%	8"	SDR-26	-
SAS #1A	SAS #1B	1105.25	1105.74	98	0.50%	8"	SDR-35	-
BURNT SIENNA DRIVE								
SAS #3	SAS #4	1106.00	1106.85	170	0.50%	8"	SDR-26	-

SPECIFIC NOTES

STORM SEWER SCHEDULE

*REV. 9/29/2016 KDF

THE WILLOWS II: PHASE 2
PROJECT NO. 11402

SHEET NO.
U-11

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
BURNT SIENNA DRIVE							
S-20	73+52.43	LT-167.01	3X3 SAS	1106.29	1102.50	3.79	W/R-1550-0054
S-21	73+55.90	LT-32.92	3X3 SAS	1113.00	1108.58	4.42	W/R-1550-0054
S-22	73+43.62	LT-15.50	3X3 SAS	1113.69	1109.07	4.62	W/R-3067-7004-V
S-22A	73+43.35	RT-15.50	H INLET	1113.70	1110.07	3.63	W/R-3067-7004-V
S-23	72+59.65	LT-15.50	3X3 SAS	1117.29	1110.88	6.41	W/R-3067-7004-V
S-24	71+61.03	LT-15.50	3X3 SAS	1121.96	1113.37	8.59	W/R-3067-7004-V
S-24A	70+04.70	RT-15.50	H INLET	1124.85	1117.72	7.13	W/R-3067-7004-V
SHINING WILLOW STREET							
S-25	42+00.48	RT-15.50	3X3 SAS	1123.31	1114.39	8.92	W/R-3067-7004-V
S-26	43+50.31	RT-15.50	3X3 SAS	1120.71	1115.47	5.24	W/R-3067-7004-V
S-26A	43+57.64	LT-15.50	H INLET	1120.60	1116.41	4.19	W/R-3067-7004-V
S-27	44+50.00	RT-18.60	TERRACE INLET III	1119.76	1116.44	3.32	(1), (2), LP, FP, UD
S-27A	44+50.00	LT-18.60	TERRACE INLET III	1119.76	1116.87	2.89	(1), (2), LP, FP, UD
DRAGON WILLOW LANE							
S-8	62+37.43	LT-16.60	TERRACE INLET III	1115.27	1111.54	3.73	(1), (2), LP, FP, UD
S-9	62+37.08	RT-16.60	TERRACE INLET III	1115.27	1111.79	3.48	(1), (2), LP, FP, UD
S-11	62+55.79	RT-48.31	18" RCP AE	-	1112.74	-	W/GATE
WHITE FOX LANE							
S-1	18+99.54	RT-49.75	24" RCP AE	-	1102.50	-	W/GATE
S-2	19+12.09	RT-22.50	3X3 SAS	1110.77	1102.74	8.03	W/R-3067-7004-V
S-3	20+27.09	RT-22.50	3X3 SAS	1111.28	1103.64	7.64	W/R-3067-7004-V
S-4	21+68.00	RT-22.50	3X3 SAS	1110.57	1104.40	6.17	W/R-3067-7004-V
S-5	22+16.00	RT-22.50	3X3 SAS	1110.81	1104.63	6.18	W/R-3067-7004-V
LOT 63-66 EASEMENT							
S-6	104+82.82	CL	H INLET	1108.50	1104.80	3.70	W/R-1878-B7G
S-7	102+00.00	CL	3X3 SAS	1114.00	1110.20	3.80	W/R-1550-0054
LOT 48-52 EASEMENT							
S-24B	203+81.90	CL	H INLET	1122.50	1119.40	3.10	W/R-1878-B7G
SCHEWE ROAD							
S-40	300+11.80	CL	38"X60" HERCP AE	-	1100.00	-	W/GATE
* S-40A	302+05.00	CL	6X6 SAS	1105.80	1100.84	4.96	FP, W/R-1550-0054
S-41	304+16.80	CL	6X6 SAS	1106.20	1101.79	4.41	FP, W/R-1550-0054
S-42	308+15.84	CL	6X6 SAS	1110.64	1103.55	7.09	FP, W/R-1550-0054
S-43	308+66.27	RT-64.50	38"X60" HERCP AE	-	1103.98	-	W/GATE

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
BURNT SIENNA DRIVE										
P-20	S-20	S-21	1103.00	1108.58	134	131.2	4.25%	18"	TYPE 2	-
P-21	S-21	S-22	1108.58	1109.07	22.5	18.5	2.65%	18"	TYPE 2	-
P-22	S-22	S-23	1109.07	1110.88	91.5	88.2	2.05%	18"	TYPE 2	-
P-22A	S-22	S-22A	1109.57	1110.07	31	28.5	1.75%	12"	TYPE 1	-
P-23	S-23	S-24	1110.88	1113.37	98.5	95.6	2.60%	18"	TYPE 2	-
P-24A	S-24	S-24A	1113.62	1117.72	158	154.8	2.65%	15"	TYPE 2	-
SHINING WILLOW STREET										
P-24	S-24	S-25	1113.37	1114.39	106	102.1	1.00%	18"	TYPE 2	-
P-25	S-25	S-26	1114.39	1115.47	147	144	0.75%	18"	TYPE 2	-
P-26	S-26	S-27	1115.72	1116.44	100	96.6	0.75%	15"	TYPE 2	-
P-26A	S-26	S-26A	1115.97	1116.41	32	29.3	1.50%	12"	TYPE 1	-
P-27A	S-27	S-27A	1116.69	1116.87	37	35.4	0.51%	12"	TYPE 1	-
DRAGON WILLOW LANE										
P-7	S-7	S-8	1110.21	1111.51	89	86.8	1.50%	18"	TYPE 2	-
P-8	S-8	S-9	1111.51	1111.76	33	31.3	0.80%	18"	TYPE 1	-
P-9	S-9	S-10	1111.76	1113.79	28	27.1	7.50%	18"	TYPE 1	-
WHITE FOX LANE										
P-1	S-1	S-2	1102.50	1102.74	30	28.3	0.85%	24"	TYPE 1	-
P-2	S-2	S-3	1102.74	1103.64	115	112	0.80%	24"	TYPE 2	-
P-3	S-3	S-4	1103.64	1104.40	141	137.9	0.55%	24"	TYPE 1	-
P-4	S-4	S-5	1104.40	1104.63	39	36	0.64%	24"	TYPE 2	-
LOT 63-66 EASEMENT										
P-5	S-5	S-6	1104.63	1104.80	35	32.5	0.52%	24"	TYPE 2	-
P-6	S-6	S-7	1105.30	1110.21	291	280.9	1.75%	18"	TYPE 2	-
LOT 48-52 EASEMENT										
P-24B	S-24A	S-24B	1117.72	1119.40	336.5	333.9	0.50%	15"	TYPE 2	-
SCHEWE ROAD										
* P-40	S-40	S-40A	1100.00	1100.84	193.5	190.5	0.44%	38"X60"	TYPE 1	-
* P-40A	S-40A	S-41	1100.84	1101.79	212	209	0.45%	38"X60"	TYPE 1	-
P-41	S-41	S-42	1101.79	1103.55	399	393	0.45%	38"X60"	TYPE 1	-
P-42	S-42	S-43	1103.55	1103.98	82	78.1	0.55%	38"X60"	TYPE 1	-

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.

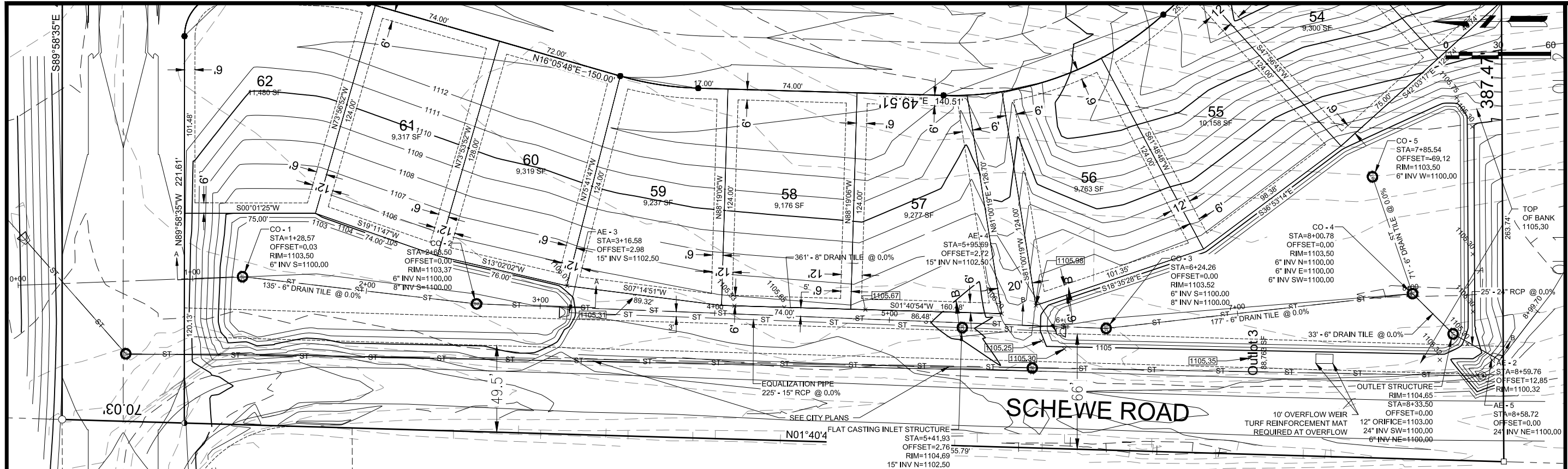
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS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

SPECIFIC NOTES

(1) TAP 2" PVC PIPE INTO THE FRONT OF THE INLET AND ELBOW PIPE UP TO THE TOP OF BINDER LAYER. PIPE SHALL SURFACE IN FRONT OF THE CURB

(2) TOP OF CASTING ELEVATION IS 0.2' BELOW TOP OF CURB ELEVATION. CONSTRUCT PER S.D.D. 5.7.12B

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BIORETENTION GENERAL NOTES:

GEOTEXTILE FABRIC:

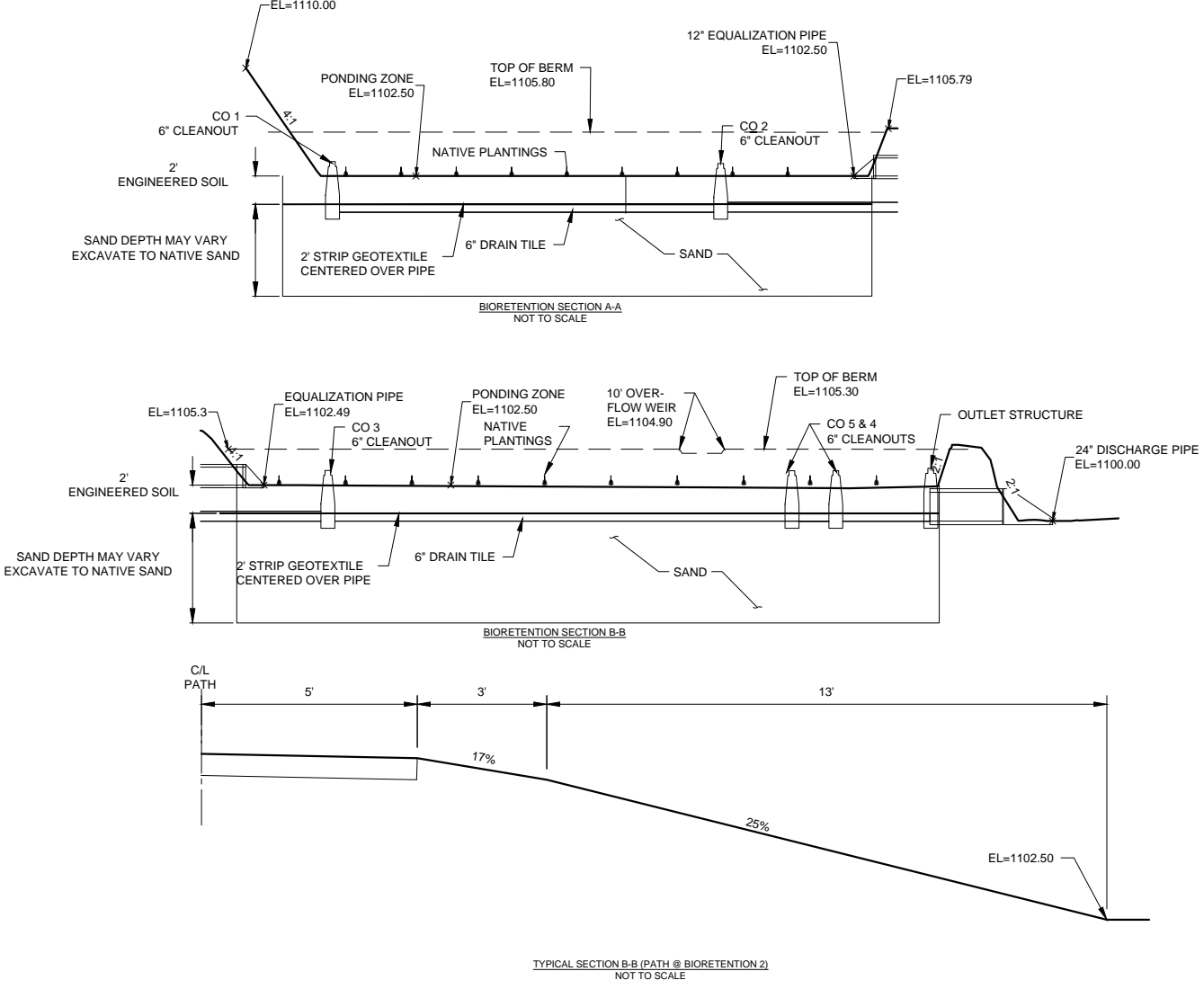
- WISDOT TYPE DF, SCHEDULE B OR C

ENGINEERED SOIL:

- 70-85% SAND: CLEAN GRANULAR MATERIAL MEETING ASTM C33 OR USDA COARSE SAND (0.02-0.04 INCHES). 97% SiO₂ WASHED TO REMOVE FINES. MANUFACTURED SAND, CALCIUM CARBONATED SAND, SOLOMITIC SAND AND STONE DUST ARE PROHIBITED.
- 15-30% COMPOST: CERTIFIED MEETING THE STANDARDS OF UNITED COMPOSTING COUNCIL AND S100 PER WDNR TECHNICAL STANDARDS.

BIORETENTIONS SHALL BE INSTALLED TO THE DIMENSIONS AND SLOPES SHOWN ON THE PLANS. FINAL AS-BUILT MUST BE SURVEYED AND SUBMITTED TO THE CITY FOR FINAL APPROVAL. DEVIATIONS FROM THIS PLAN WILL NOT BE ACCEPTED WITHOUT APPROVAL BY THE ENGINEER AND CITY.

NO CONSTRUCTION TRAFFIC IN BIORETENTIONS. CARE SHOULD BE TAKEN TO NOT COMPACT INSITU-SOIL IN ALL BIORETENTION BASINS.



T. R. MCKENZIE, INC
THE WILLOWS II
1910 HAWKS RIDGE DRIVE
VERONA, WISCONSIN 53593

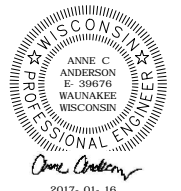
ISSUED	05/18/16	PERMIT
	07/06/16	PERMIT
	07/28/16	UNDER DRAIN
	08/05/16	BACKYARD
	08/08/16	GRADING
	08/08/16	PATH DRAINAGE
	01/16/17	NORTH BIO

NOT FOR CONSTRUCTION

M&H NO.:	2015900-141468.01
DATE:	June 30, 2016
DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
DO NOT SCALE DRAWINGS	

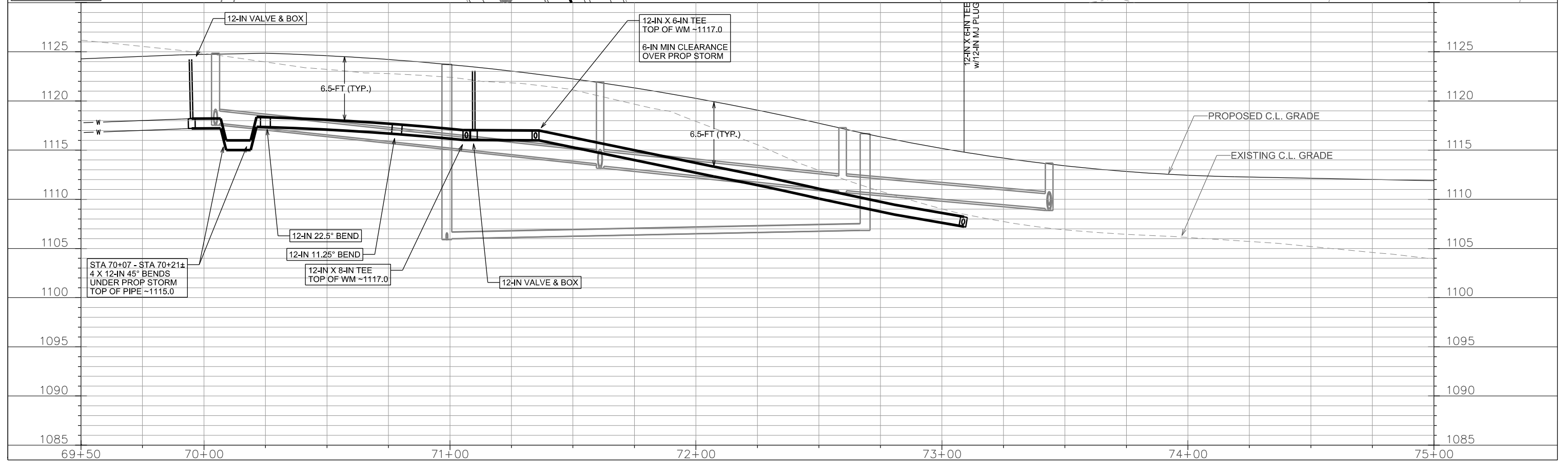
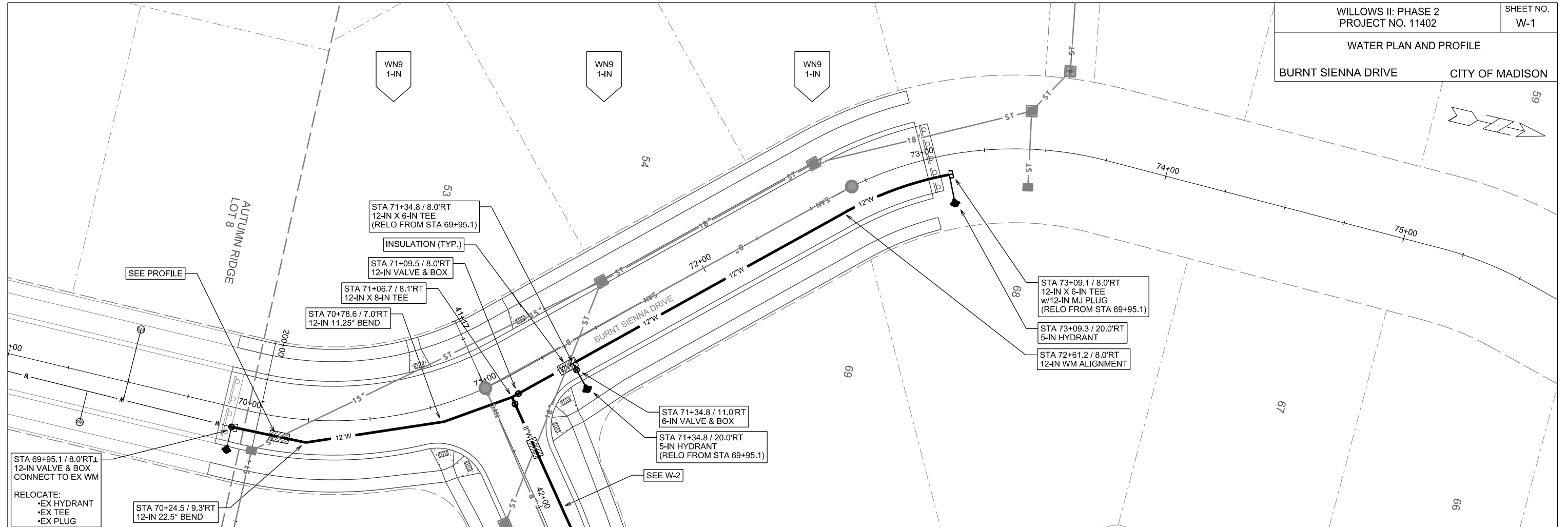
SHEET CONTENTS
STORMWATER MANAGEMENT PLAN

SHEET NO.



WATER PLAN AND PROFILE

BURNT SIENNA DRIVE CITY OF MADISON



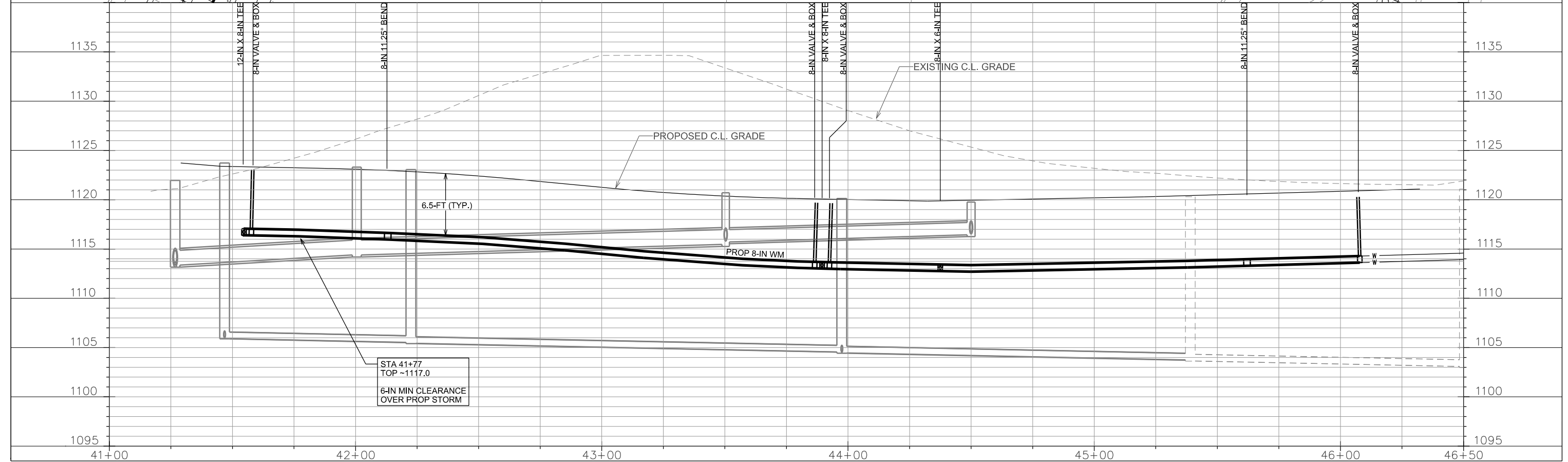
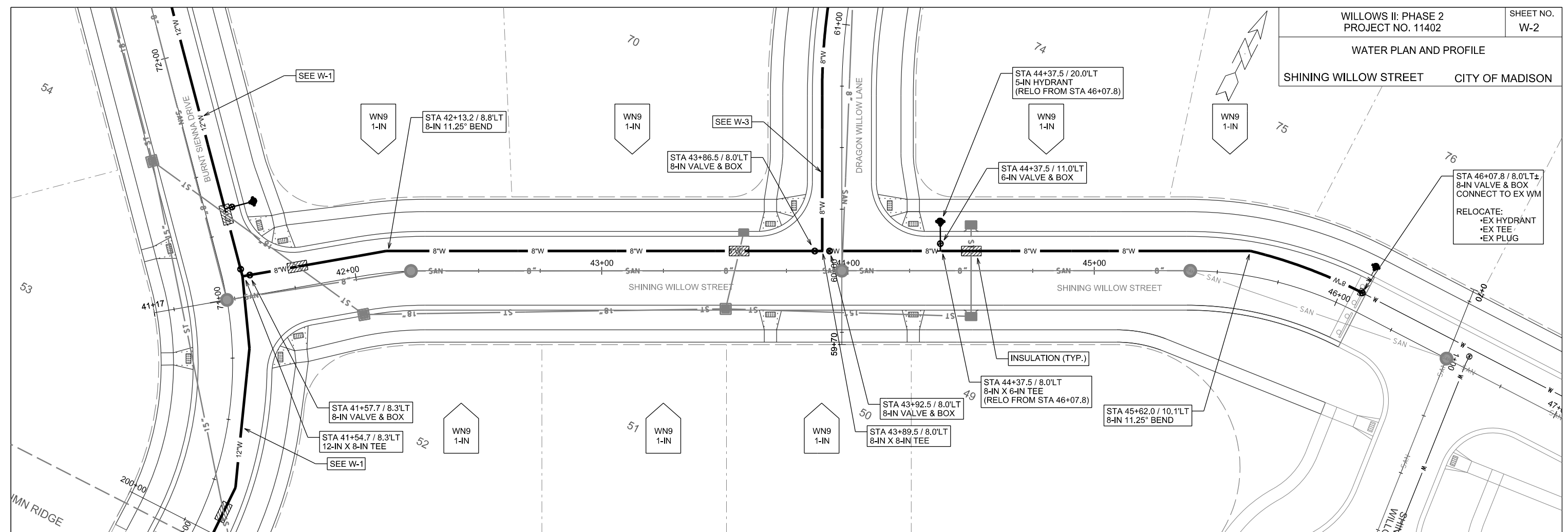
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
SHINING WILLOW STREET CITY OF MADISON



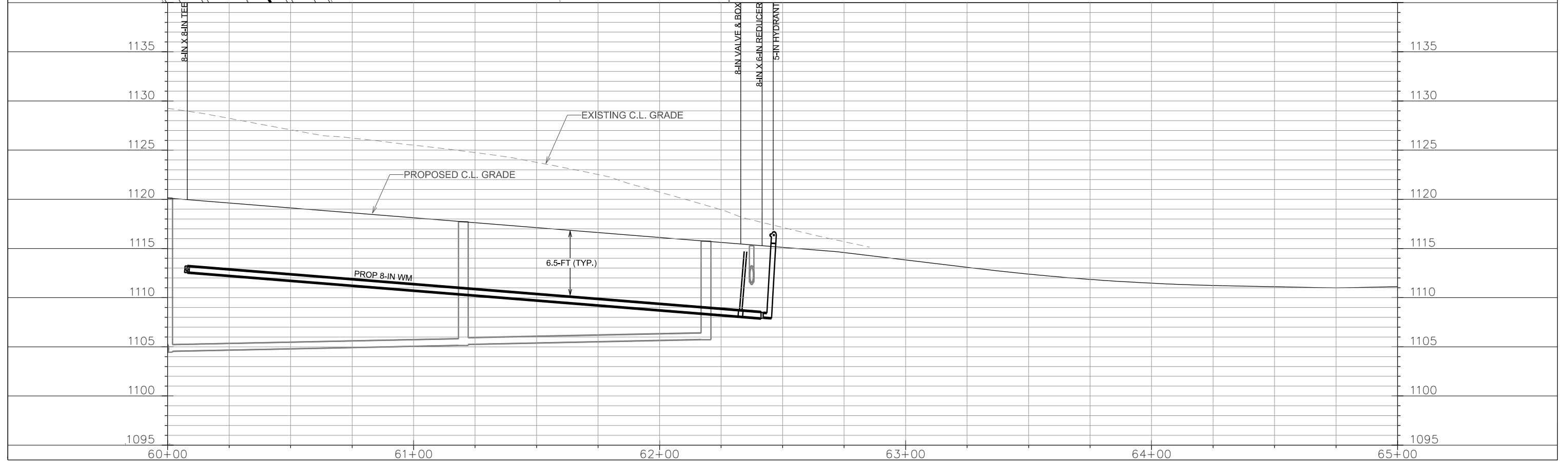
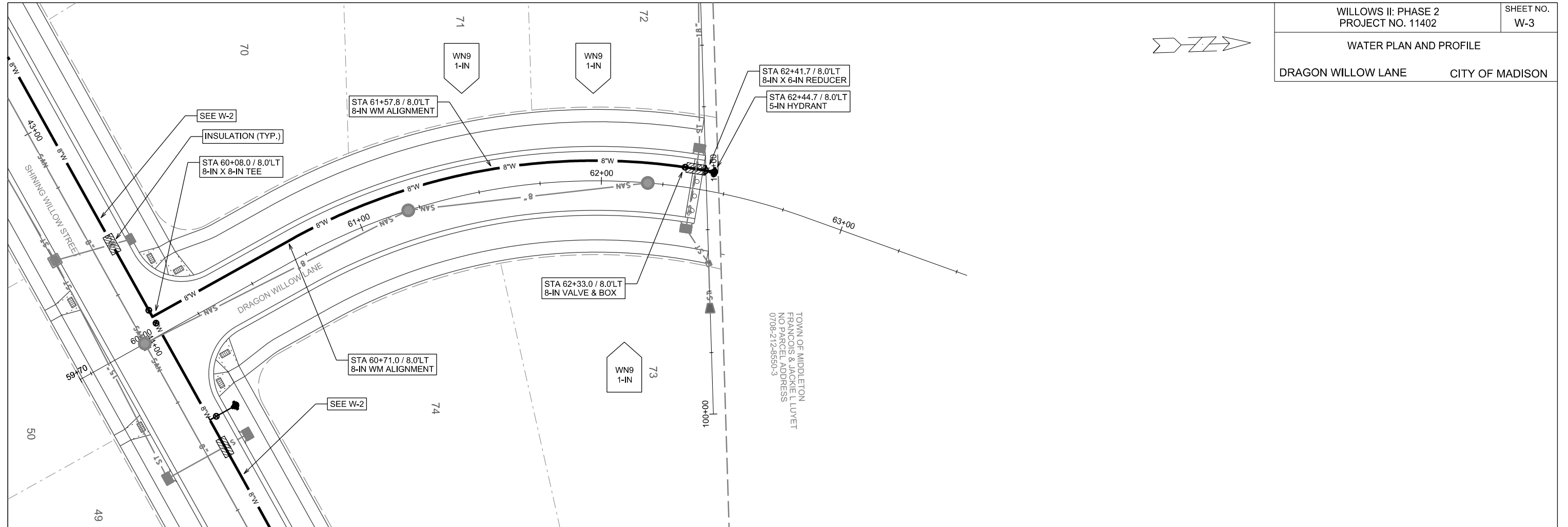
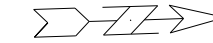
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
DRAGON WILLOW LANE CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

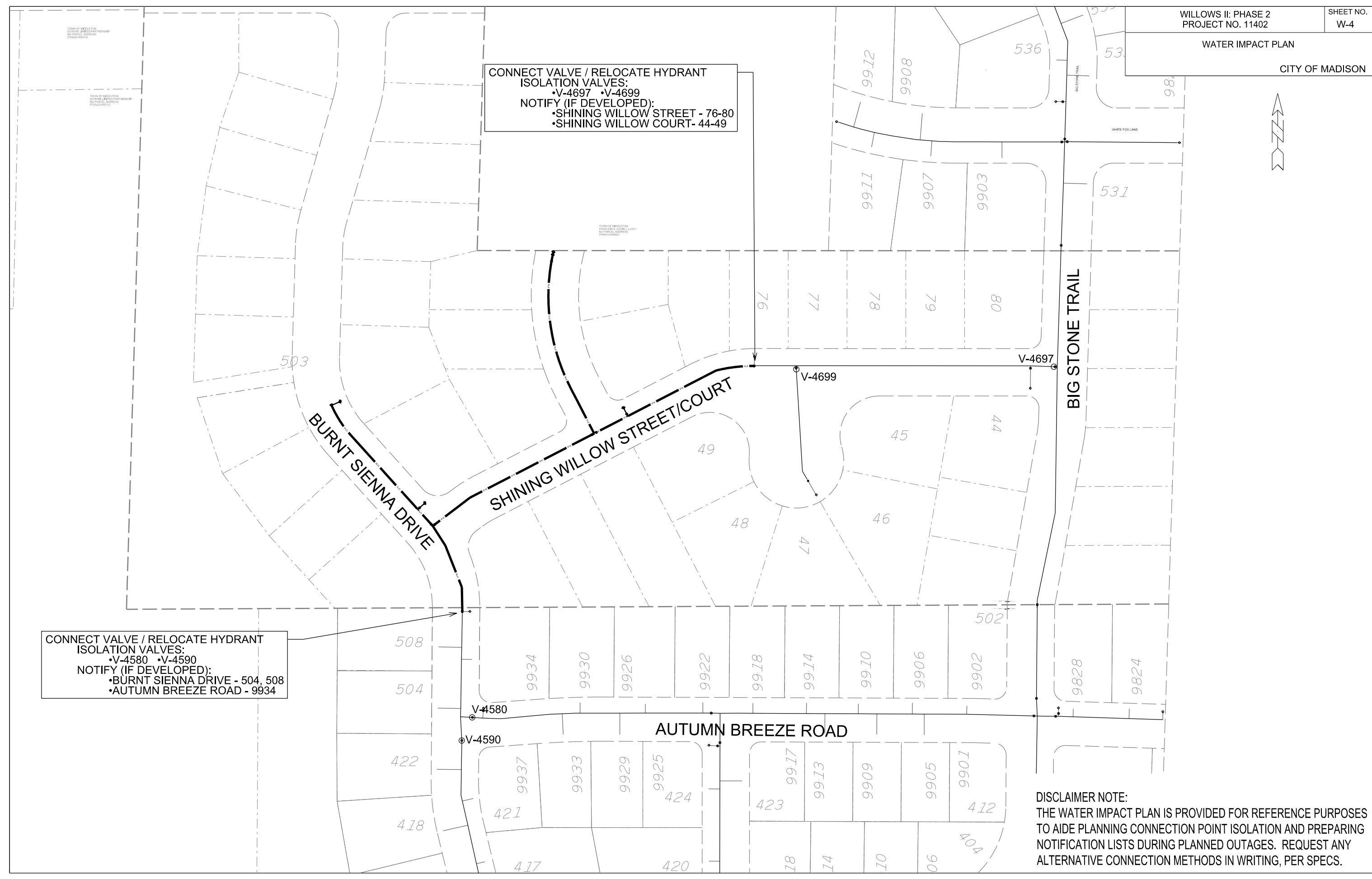
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONNECT VALVE / RELOCATE HYDRANT ISOLATION VALVES:
 •V-4697 •V-4699
 NOTIFY (IF DEVELOPED):
 •SHINING WILLOW STREET - 76-80
 •SHINING WILLOW COURT - 44-49

CONNECT VALVE / RELOCATE HYDRANT ISOLATION VALVES:
 •V-4580 •V-4590
 NOTIFY (IF DEVELOPED):
 •BURNT SIENNA DRIVE - 504, 508
 •AUTUMN BREEZE ROAD - 9934

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.

- 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 FURNISHED BY CONTRACTOR:

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

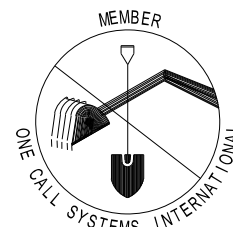
WATER MAIN AND FITTING MATERIALS	
6-IN PIPE (LF)	40
8-IN PIPE (LF)	700
POLY WRAP (LF)	1200
6-IN VALVES & BOXES	2
8-IN VALVES & BOXES	5
8-IN 11.25° BENDS	2
8-IN X 8-IN TEES	1
8-IN X 6-IN REDUCERS	1
5-IN HYDRANTS	2
MISC. MATERIALS	
INSULATION (LF)	24
COPPER TUBING (1-IN TO 2-IN)	AS REQ

 INDICATES INSULATION AT STORM SEWER CROSSING

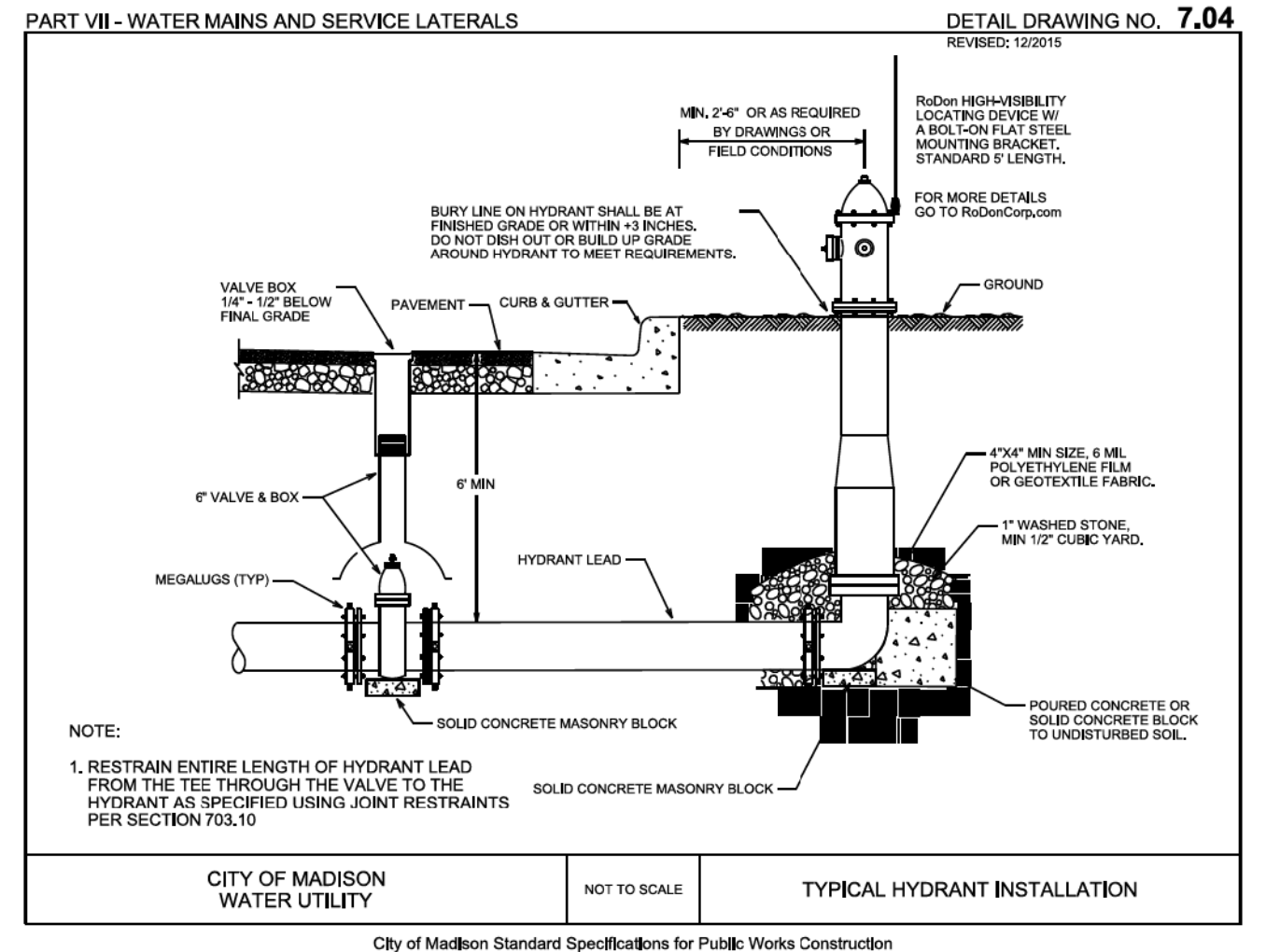
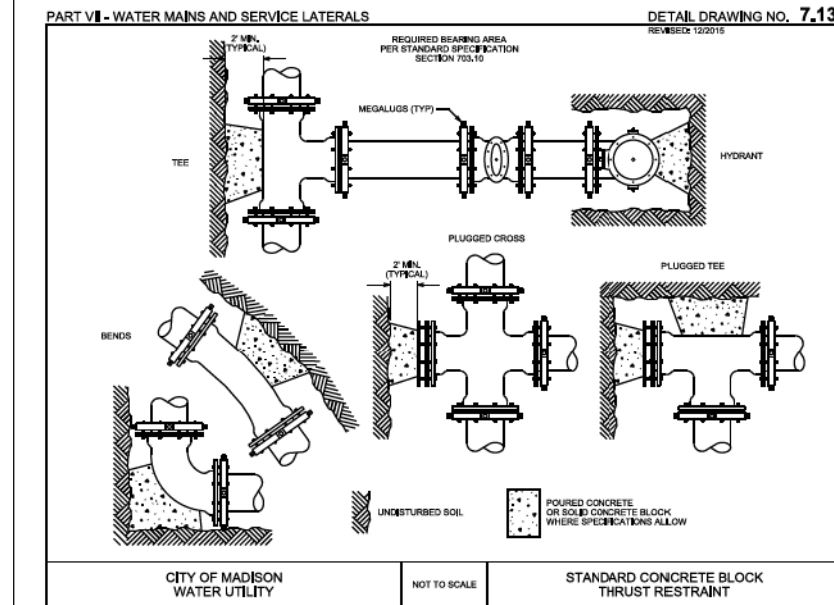
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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.



ESTIMATE OF PROJECT MATERIALS FURNISHED BY WATER UTILITY:

WATER MAIN AND FITTING MATERIALS	
12-IN PIPE (LF)	340
POLY WRAP	380
12-IN VALVES & BOXES	2
12-IN 11.25° BENDS	1
12-IN 22.5° BENDS	1
12-IN 45° BENDS	4
12-IN X 6-IN TEES	1
12-IN X 8-IN TEES	1
REUSED MATERIALS	
5-IN HYDRANTS	2
8-IN X 6-IN TEES	1
12-IN X 6-IN TEES	1
12-IN MJ PLUGS	1