Madison, Wisconsin

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

ACACIA RIDGE: PHASE 4

CITY PROJECT NO. 12713

CONTRACT NO. 8488

MUNIS NO. 12713

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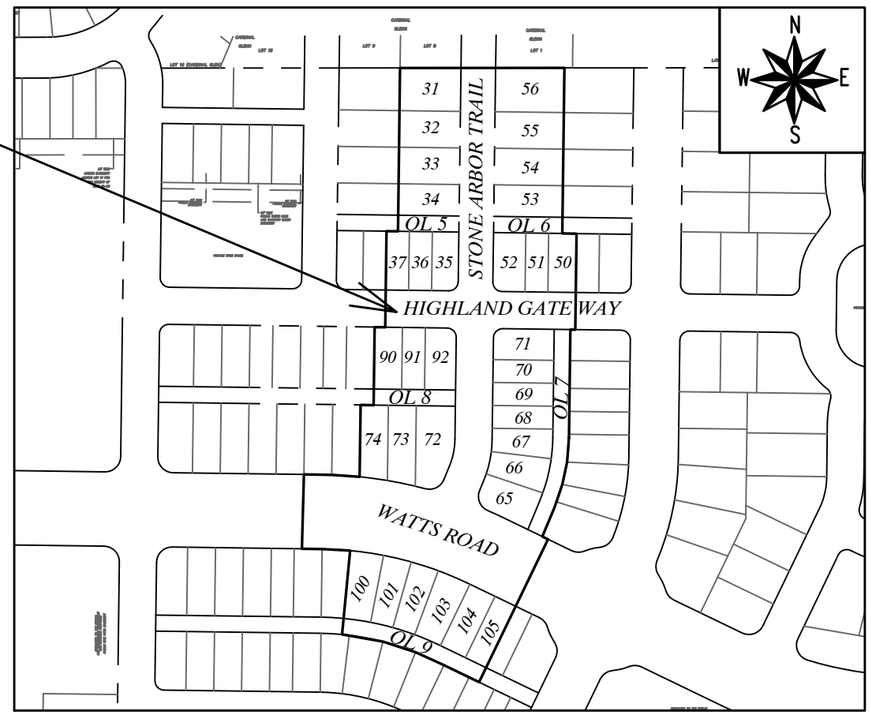
PHASE 4



PUBLIC IMPROVEMENT PROJECT APPROVED

DECEMBER 3, 2019

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

N. Greg Fries — Jun 19, 2020

City Engineer — Date

STREET DESIGNED BY:

WISCONSIN — JOHN P. SAPP E-44054 JANESVILLE WI — PROFESSIONAL ENGINEER

Jun 19, 2020

SANITARY SEWER DESIGNED BY:

WISCONSIN — MARK D. MODER E-33979 MADISON WI — PROFESSIONAL ENGINEER

Jun 19, 2020

STORM SEWER DESIGNED BY:

WISCONSIN — JANET SCHMIDT E-34681 MADISON WI — PROFESSIONAL ENGINEER

Jun 19, 2020

GEOMETRY DESIGNED BY:

WISCONSIN — MARK S WINTER E-39453 MADISON WI — PROFESSIONAL ENGINEER

Jun 19, 2020

WATER DESIGNED BY:

WISCONSIN — KELLY B MIESS E-41821 MADISON WI — PROFESSIONAL ENGINEER

Jun 19, 2020

PLOT SCALE: 1" = 1'

PLOT NAME: ---

REV. DATE: 5/19/2020 8:45 AM

ORIGINATOR: CITY_OF_MADISON

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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.

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

CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
BURIED ELECTRIC	E
OVERHEAD ELECTRIC	OH
POWER POLE	
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	CAUTION

ALL PAVEMENT IN THE HIGHLAND GATE WAY & STONE ARBOR TRAIL RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE WATTS ROAD RIGHT-OF-WAY SHALL BE TYPE C 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 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 S.D.D. 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 **EDGE OF PAVEMENT** UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE **EDGE OF PAVEMENT** 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 RIGHT-OF-WAY 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.

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

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12713 | MADISON, WI | CONTRACT NO: 8488

STANDARD NOTES AND COMMENTS

ACACIA RIDGE: PHASE 4

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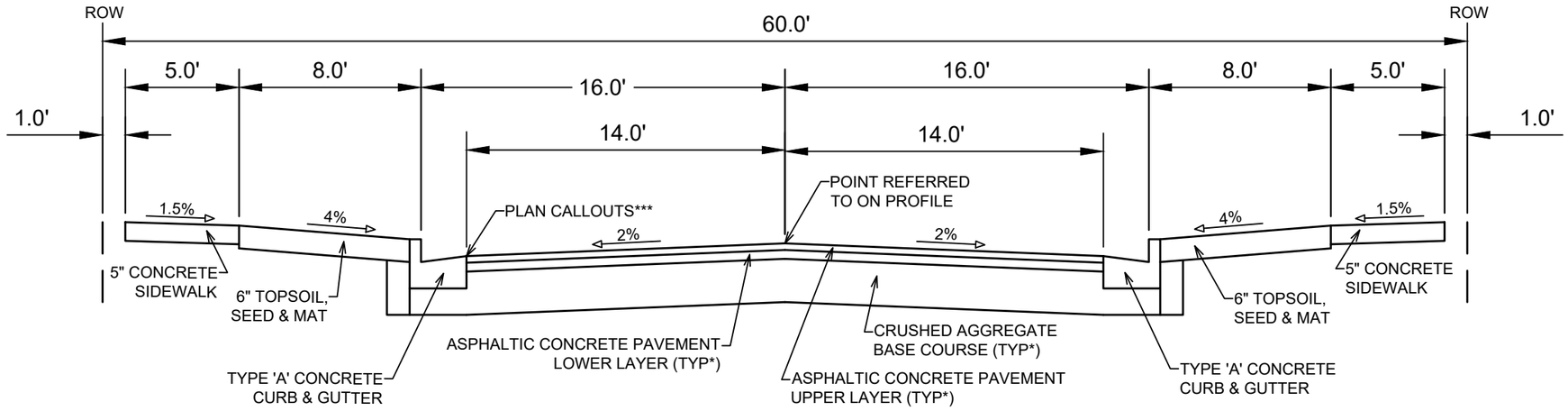
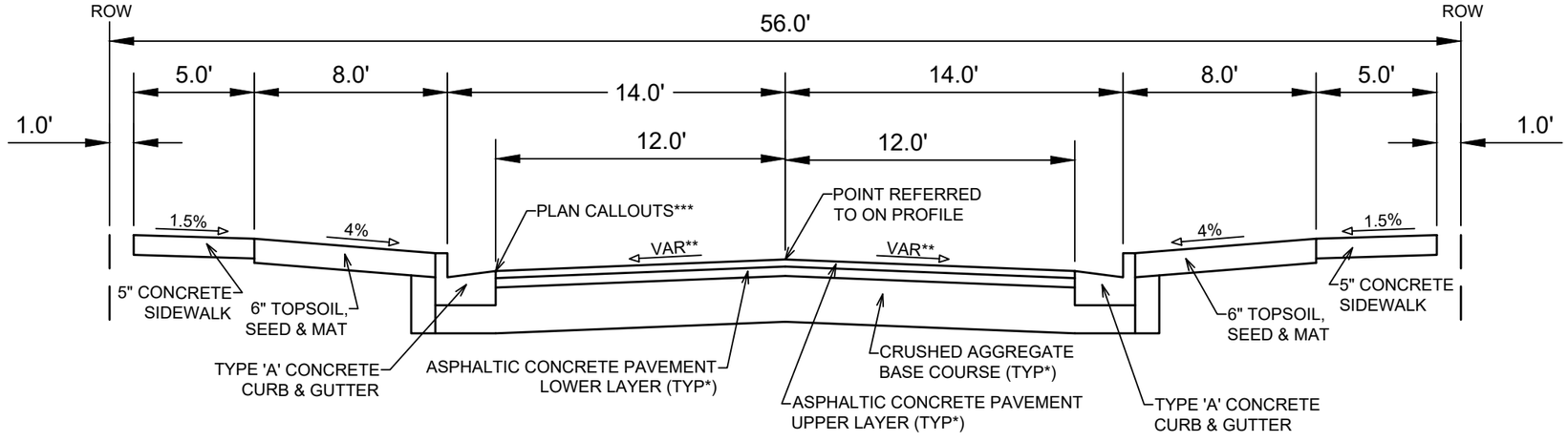


TYPICAL SECTION

HIGHLAND GATE WAY
STONE ARBOR TRAIL
(STA 91+86 TO STA 95+19)



TYPICAL SECTION

STONE ARBOR TRAIL
(STA 95+19 TO STA 99+15)

NOTES:

* HIGHLAND GATE WAY AND STONE ARBOR TRAIL SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

** SEE PLAN AND PROFILE FOR SLOPES, ELEVATIONS AND OFFSETS

*** STATION OFFSET ELEVATION CALLOUTS AT **EDGE OF PAVEMENT**

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 4. SEE CONTRACT NO. 8200, PROJECT NO. 11937

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"

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MADISON, WI
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TYPICAL SECTION
ACACIA RIDGE: PHASE 4

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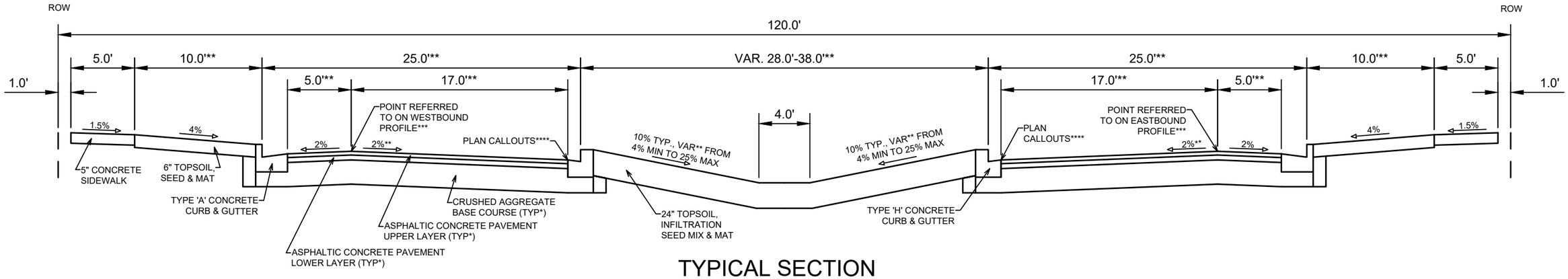
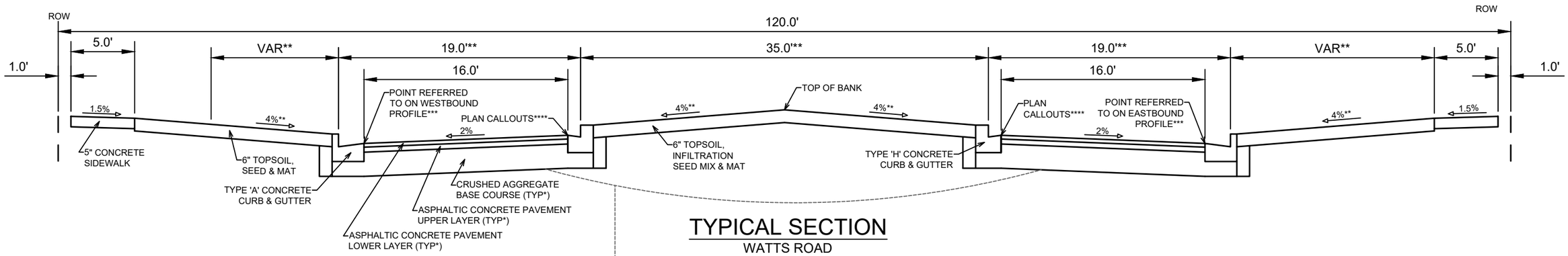


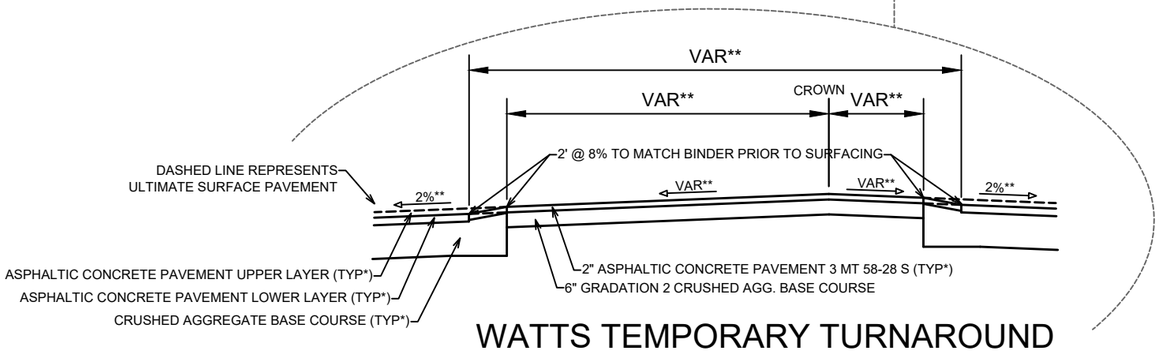
TYPICAL SECTION

WATTS ROAD
STA 251+58 TO STA 253+60 (WESTBOUND)
STA 451+58 TO STA 453+25 (EASTBOUND)



TYPICAL SECTION

WATTS ROAD
STA 253+60 TO STA 254+75 (WESTBOUND)
STA 453+25 TO STA 454+76 (EASTBOUND)



WATTS TEMPORARY TURNAROUND

WATTS ROAD
STA 254+75 TO STA 255+63 (WESTBOUND)
STA 454+76 TO STA 455+32 (EASTBOUND)

NOTES:

* WATTS ROAD SHALL BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN†

** SEE PLAN AND PROFILE FOR SLOPES, ELEVATIONS AND OFFSETS

*** NEAR INTERSECTIONS, WESTBOUND AND EASTBOUND REFERENCE LINES VARY TO ALIGN TO FLAG OF CURB AT BUMP OUTS

**** STATION OFFSET ELEVATION CALLOUTS AT **EDGE OF PAVEMENT**

- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 4. SEE CONTRACT NO. 8200, PROJECT NO. 11937

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"

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MADISON, WI
CONTRACT NO: 8488

TYPICAL SECTION
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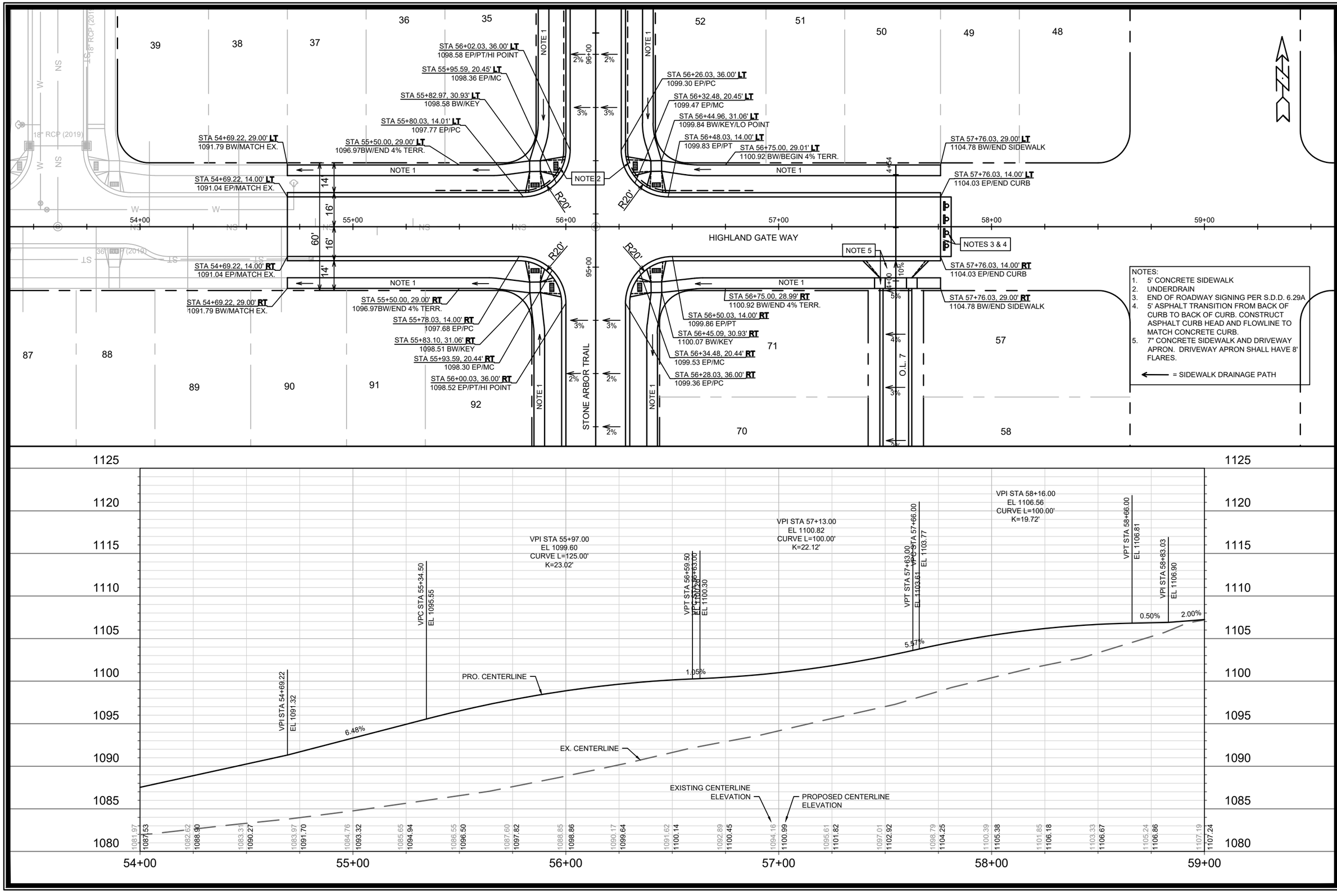

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MADISON, WI

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CONTRACT NO:

HIGHLAND GATE WAY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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CITY OF MADISON WISCONSIN

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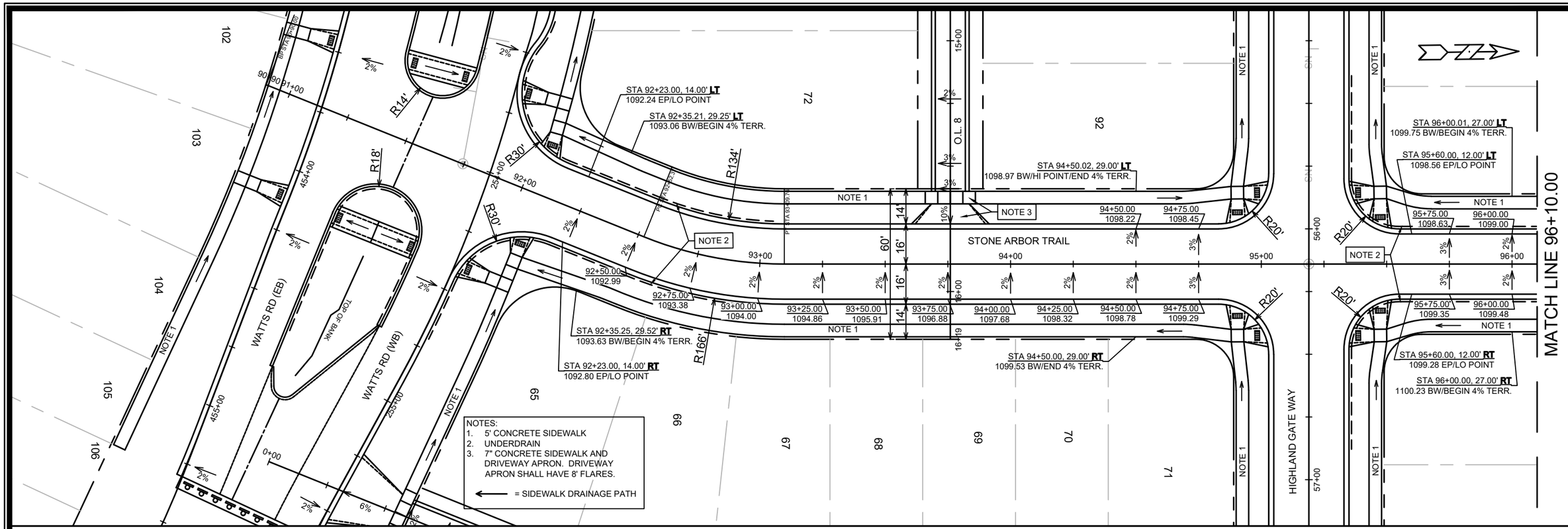

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MADISON, WI

8488

CONTRACT NO:

STONE ARBOR TRAIL - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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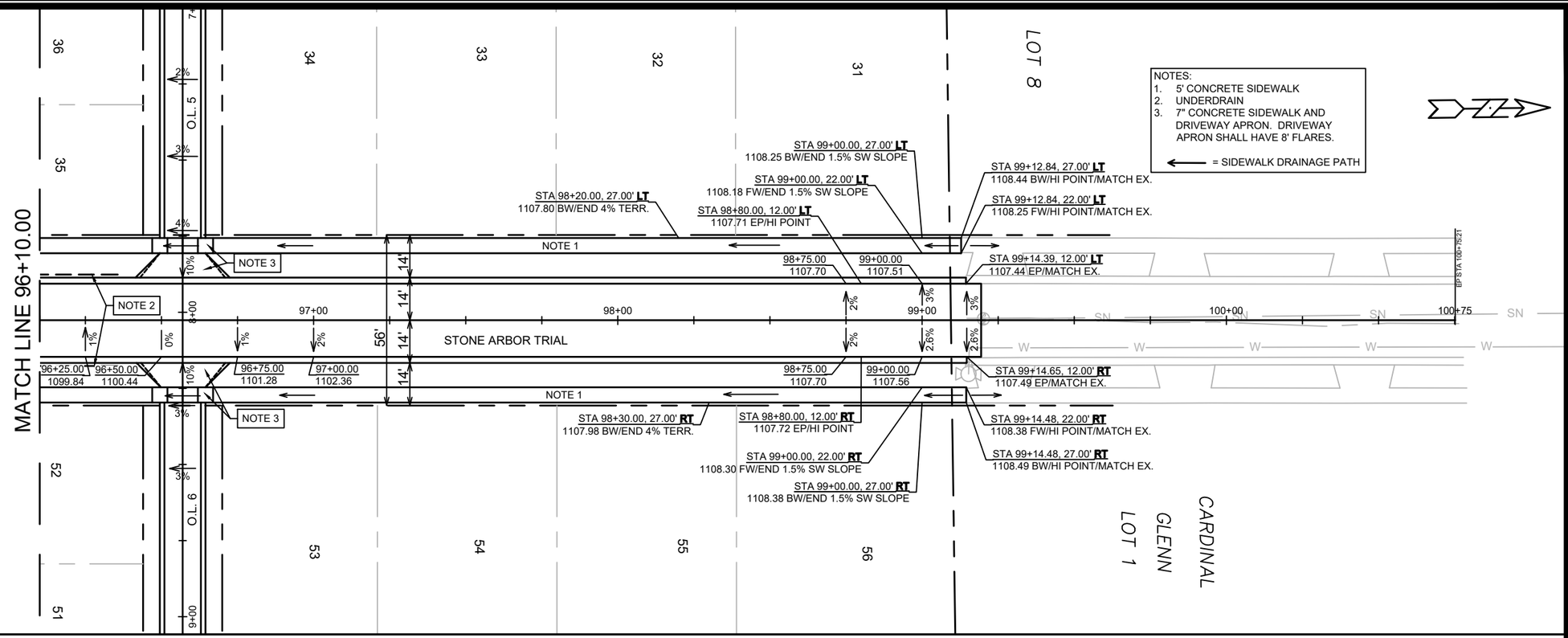

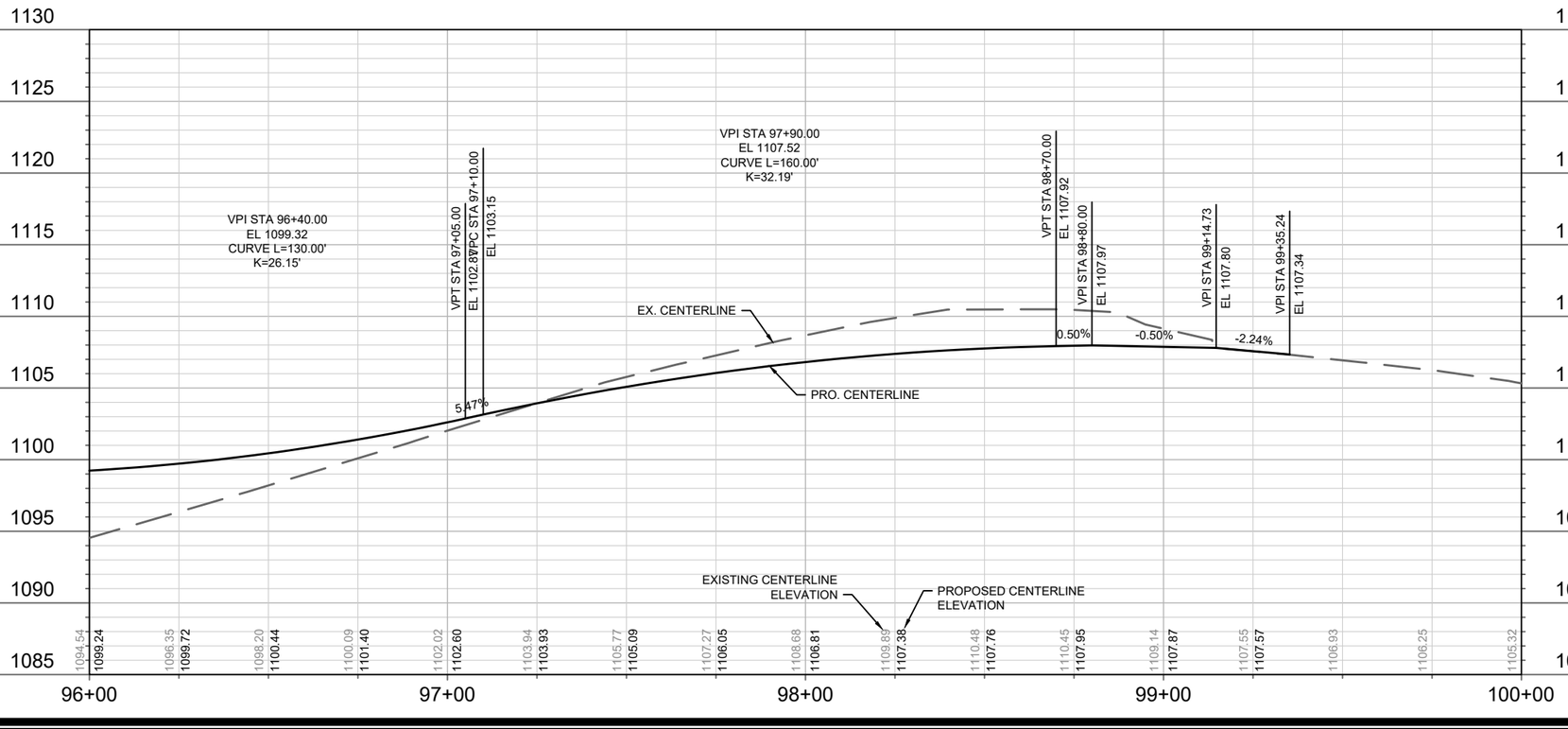

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MADISON, WI

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CONTRACT NO: 12713

STONE ARBOR TRAIL - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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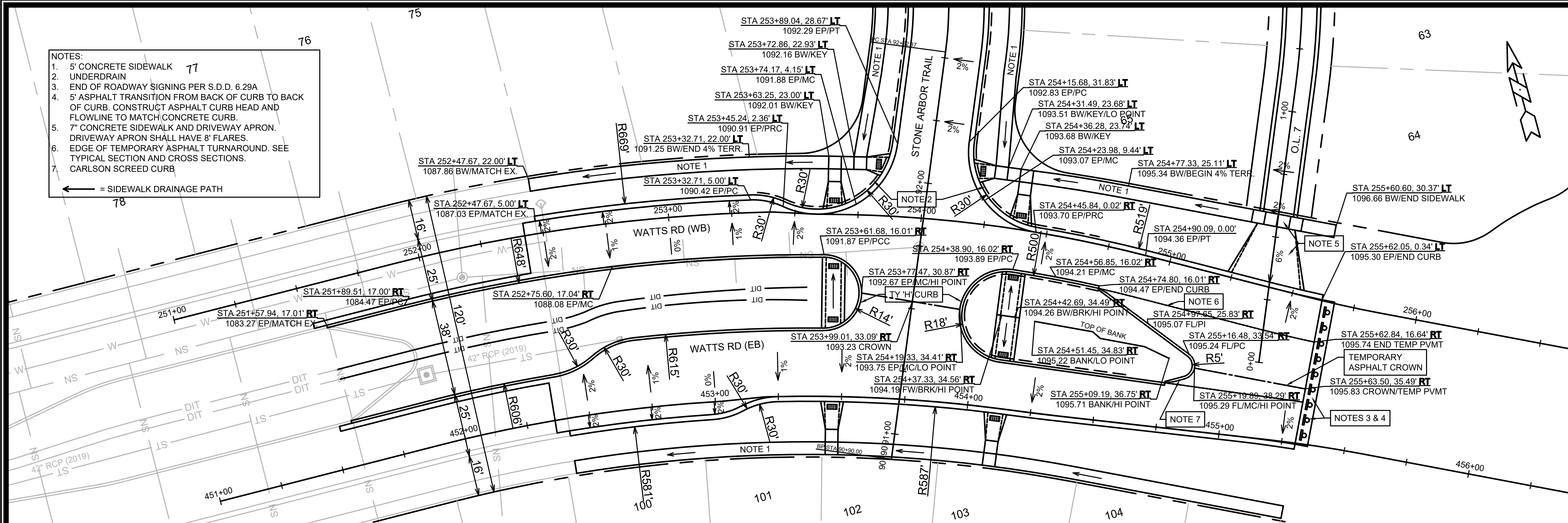
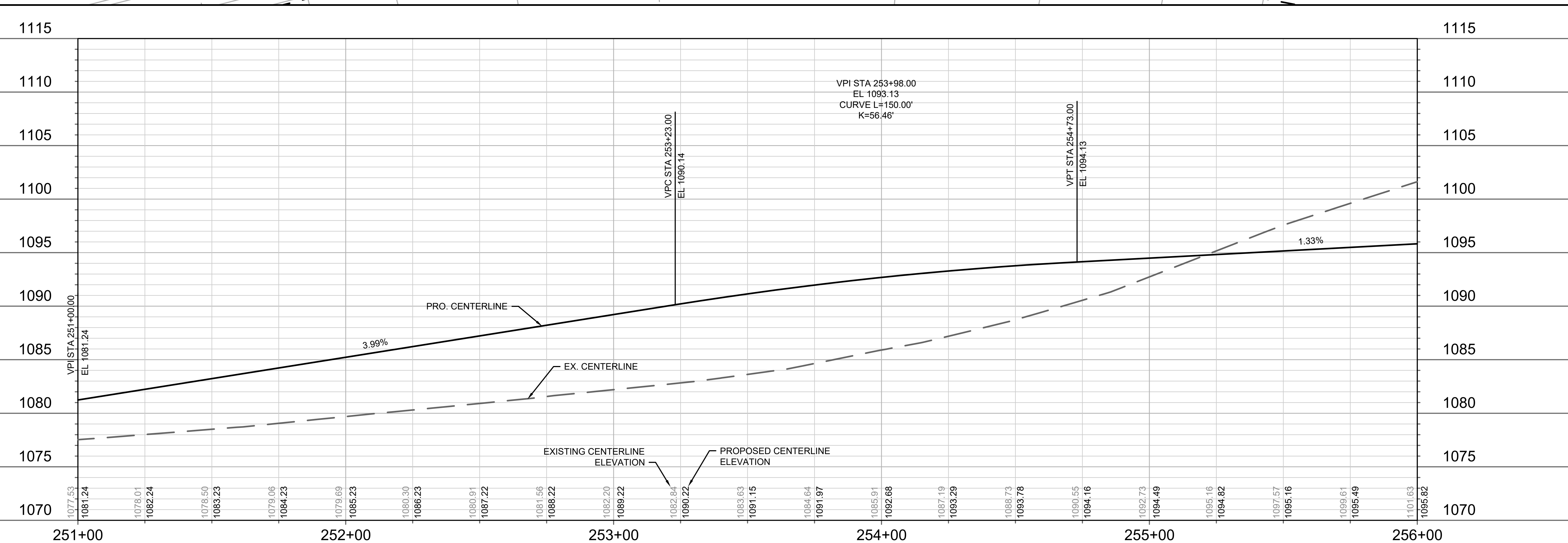
P-3

NOTES:
1. 5' CONCRETE SIDEWALK
2. UNDERDRAIN
3. END OF ROADWAY SIGNING PER S.D.D. 6.29A
4. 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
5. 7" CONCRETE SIDEWALK AND DRIVEWAY APRON. DRIVEWAY APRON SHALL HAVE 8' FLARES.
6. EDGE OF TEMPORARY ASPHALT TURNAROUND. SEE TYPICAL SECTION AND CROSS SECTIONS.
7. CARLSON SCREED CURB

← = SIDEWALK DRAINAGE PATH





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12713
MADISON, WI
CONTRACT NO: 8488

WATTS RD-WESTBOUND - PLAN & PROFILE
ACACIA RIDGE: PHASE 4
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CITY OF MADISON WISCONSIN

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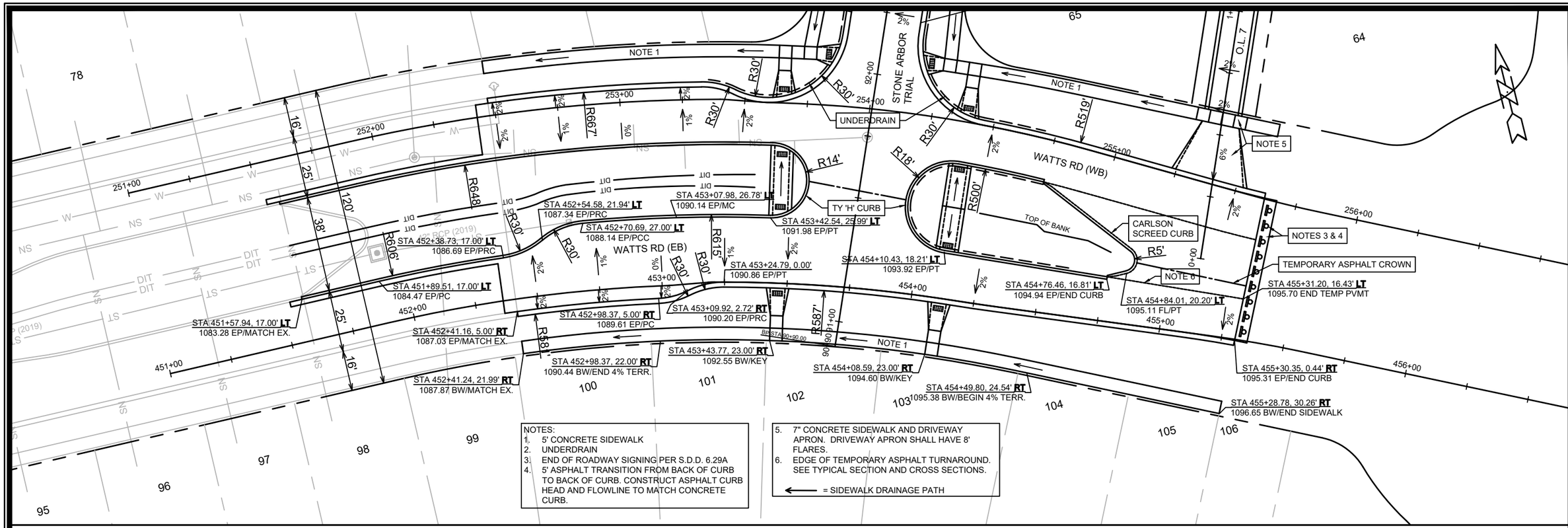
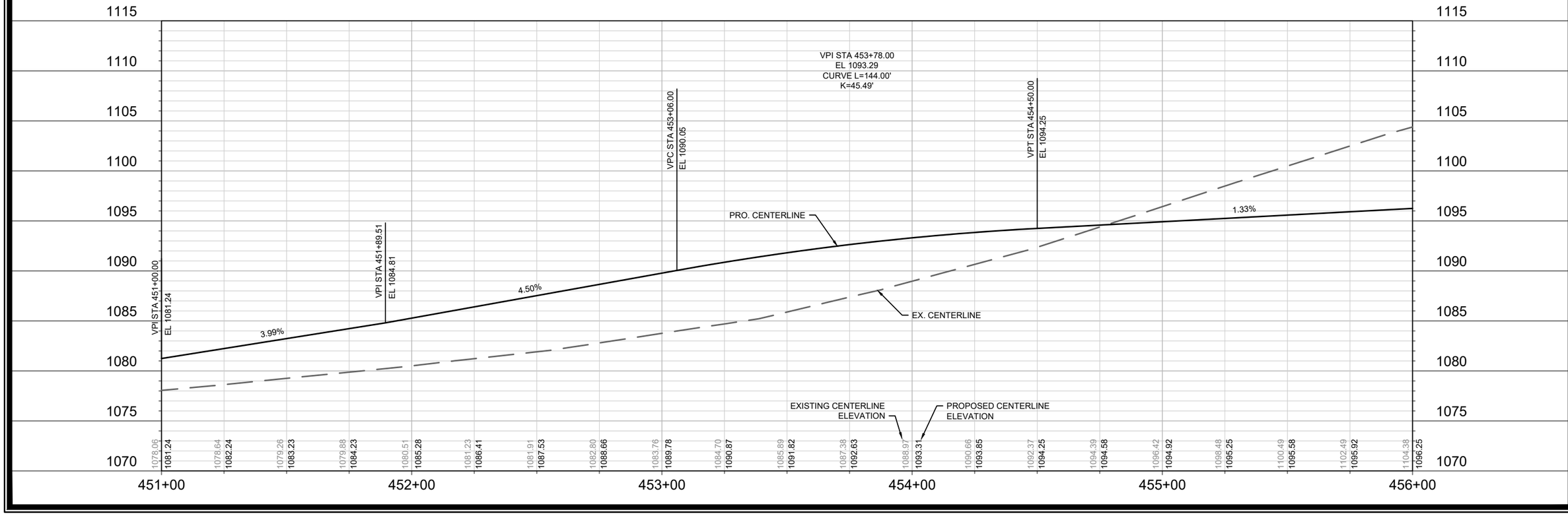


NOTES:
1. 5' CONCRETE SIDEWALK
2. UNDERDRAIN
3. END OF ROADWAY SIGNING PER S.D.D. 6.29A
4. 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
5. 7" CONCRETE SIDEWALK AND DRIVEWAY APRON. DRIVEWAY APRON SHALL HAVE 8' FLARES.
6. EDGE OF TEMPORARY ASPHALT TURNAROUND. SEE TYPICAL SECTION AND CROSS SECTIONS.

= SIDEWALK DRAINAGE PATH



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MADISON, WI

CONTRACT NO: 8488

WATTS RD-EASTBOUND - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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CITY OF MADISON WISCONSIN

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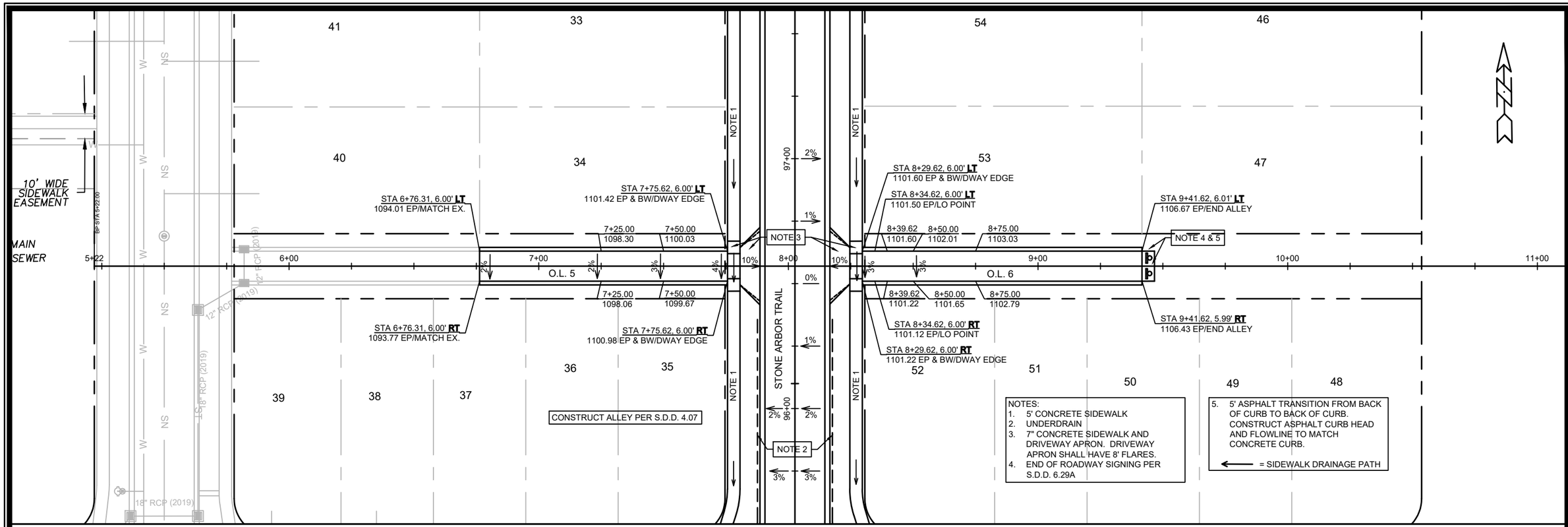

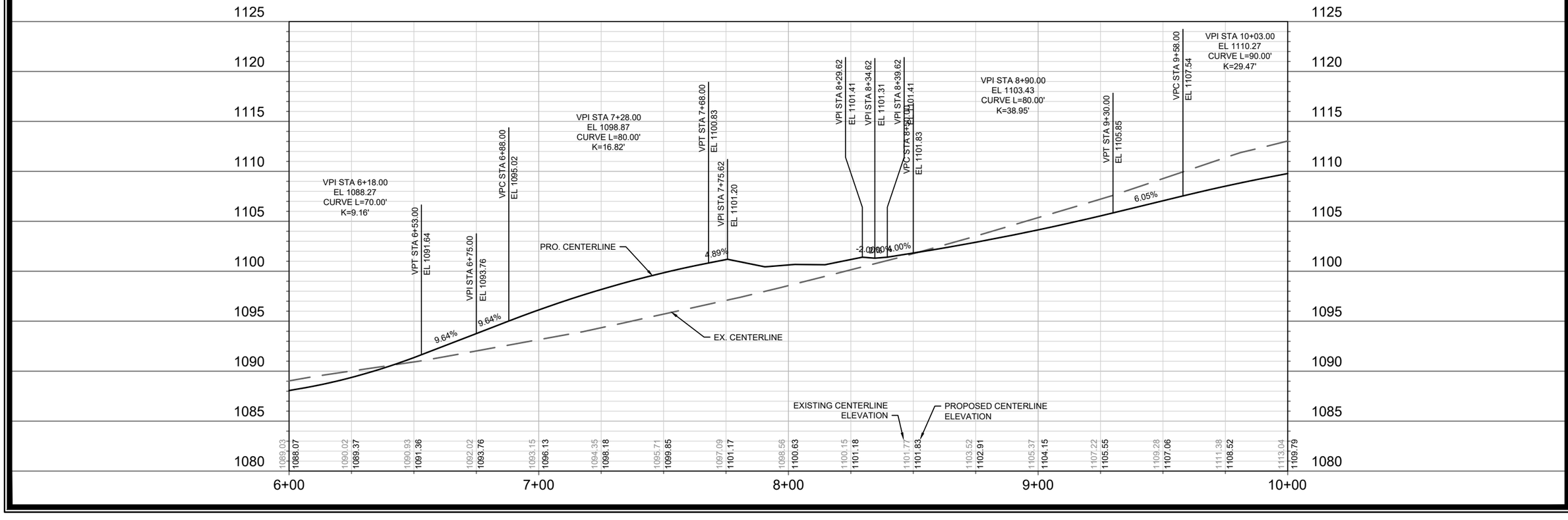

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MADISON, WI

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CONTRACT NO:

OL 5 & 6 ALLEY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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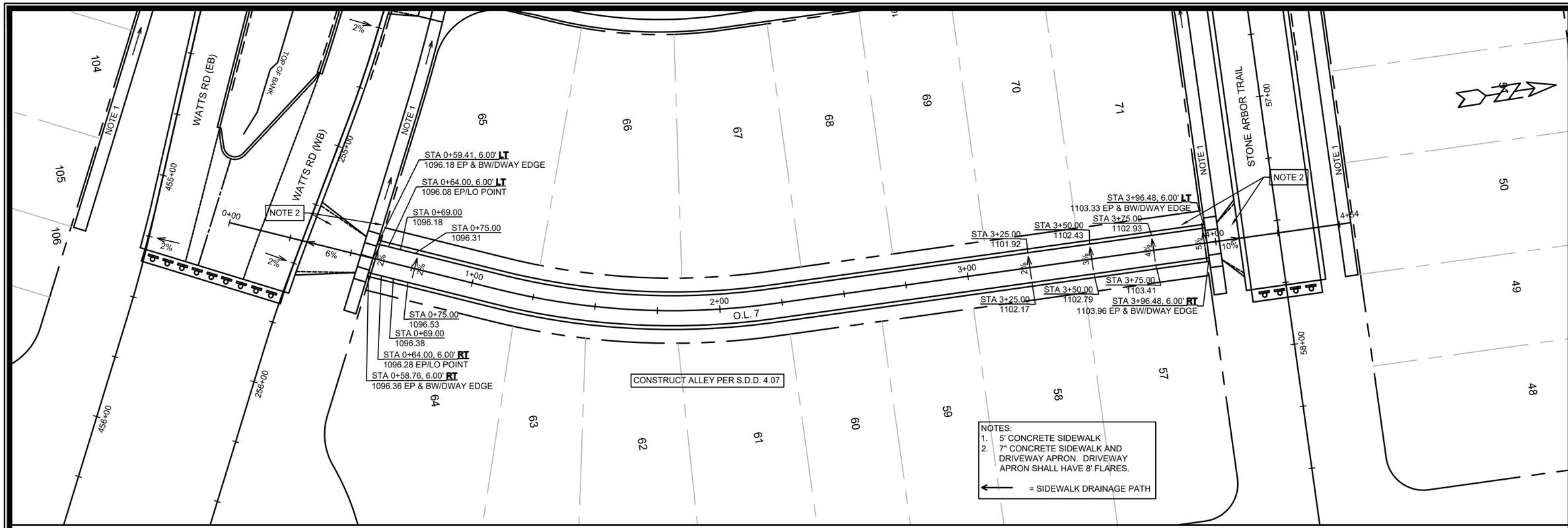

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MADISON, WI

CONTRACT NO: 8488

OL 7 ALLEY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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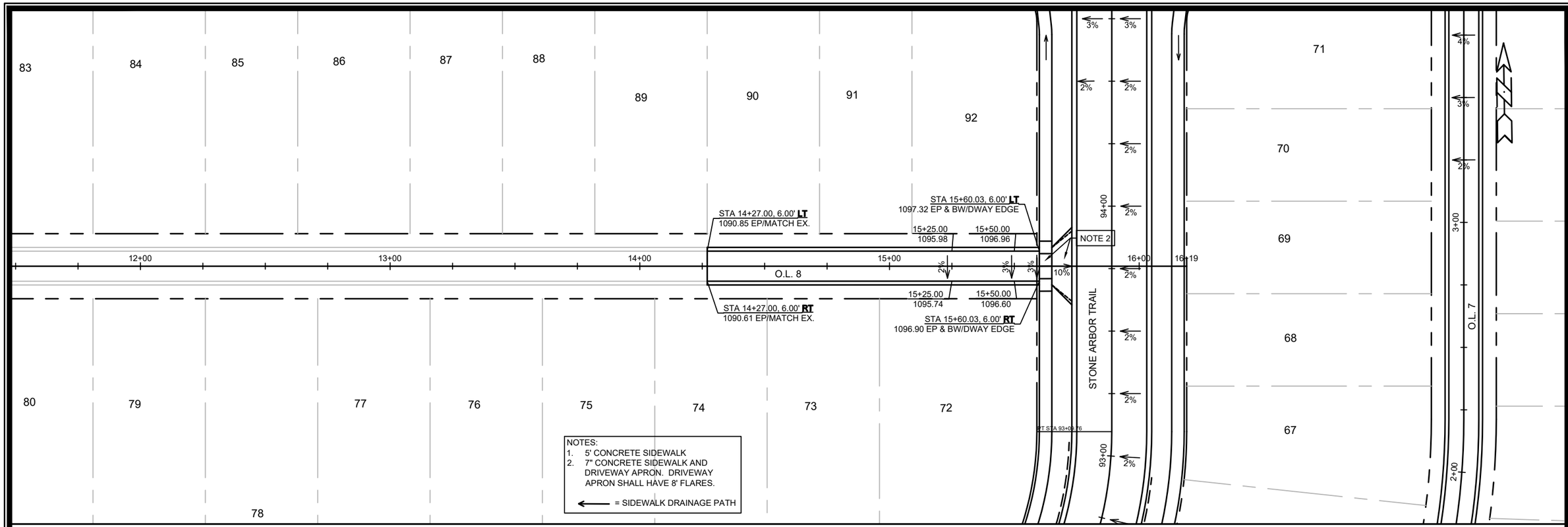

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MADISON, WI

8488

CONTRACT NO: 12713

OL 8 ALLEY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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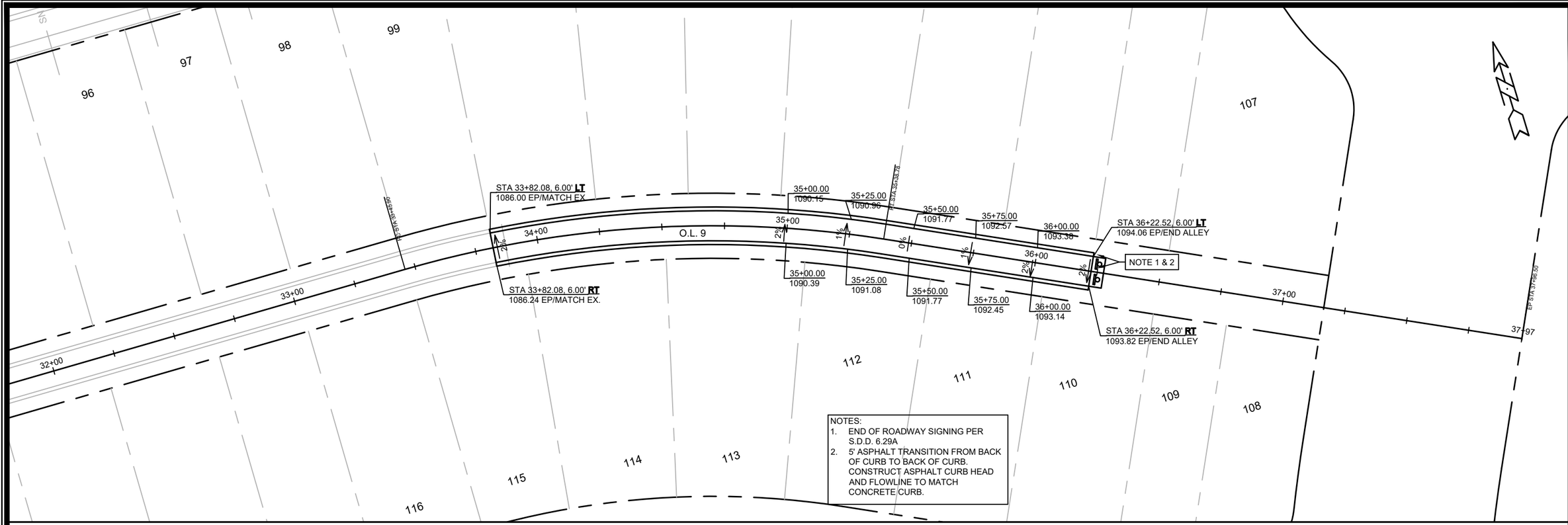
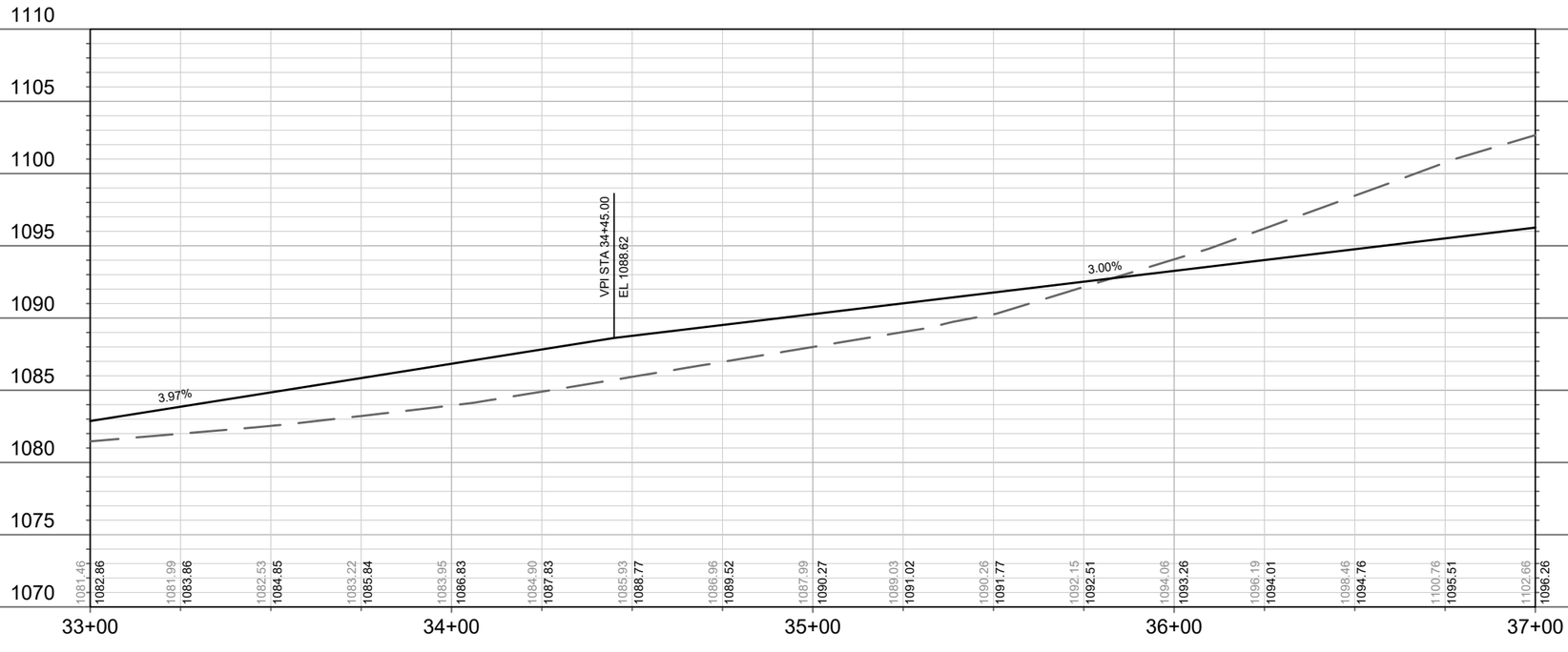


NOTES:
1. END OF ROADWAY SIGNING PER S.D.D. 6.29A
2. 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.



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MADISON, WI

CONTRACT NO: 8488

OL 9 ALLEY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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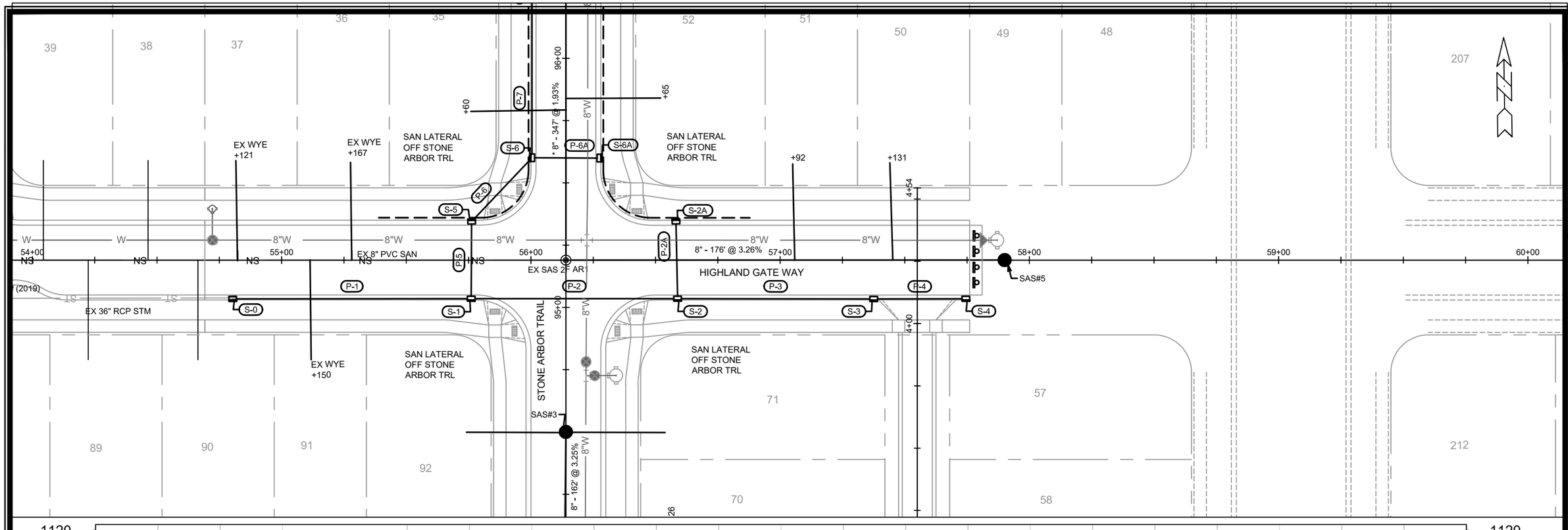

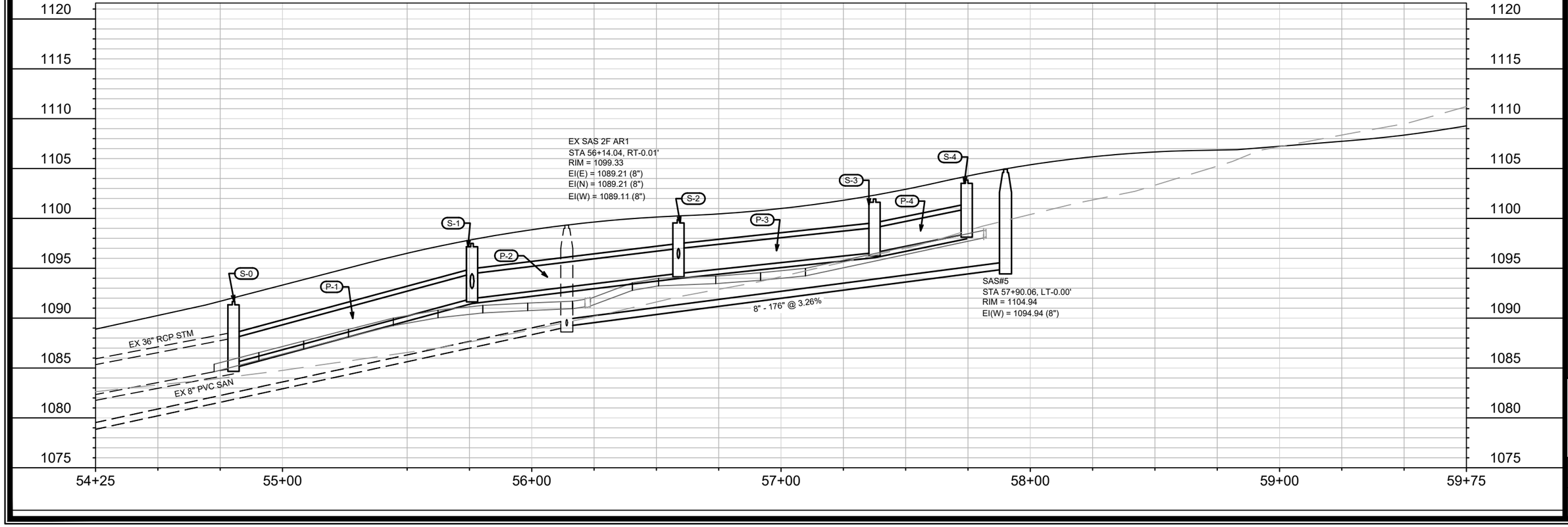

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MADISON, WI

8488

CONTRACT NO:

HIGHLAND GATE WAY - UTILITIES PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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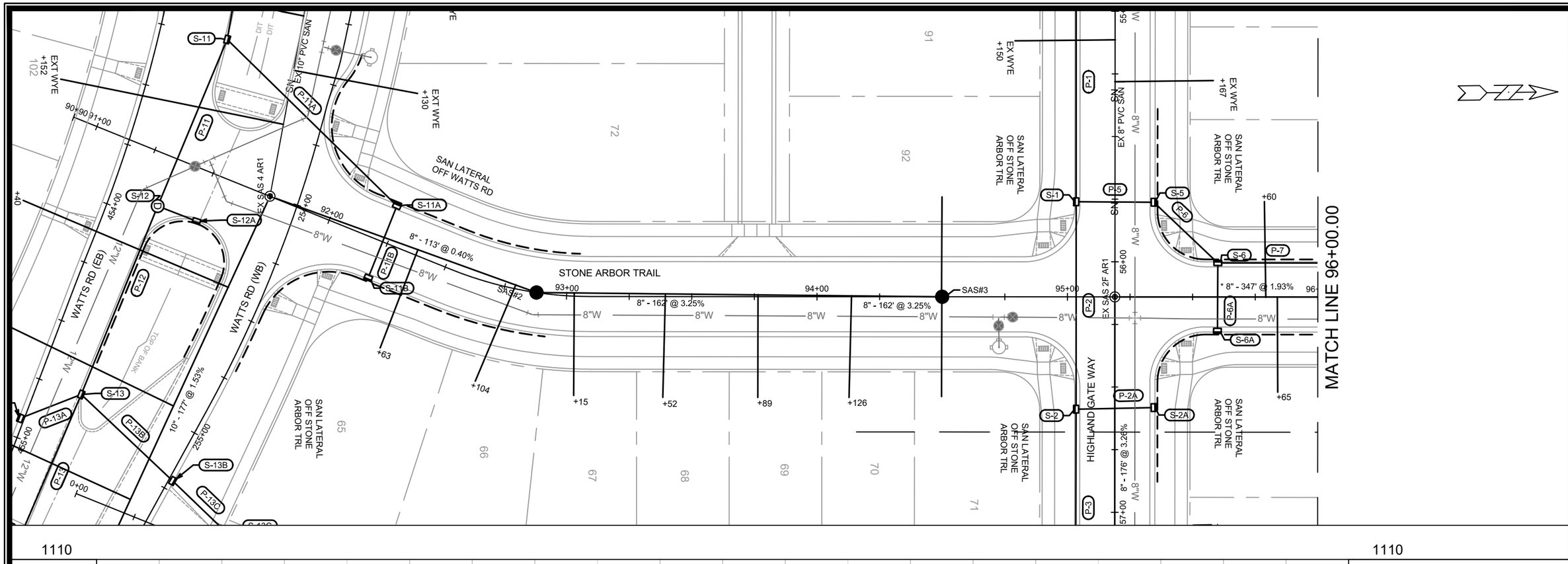
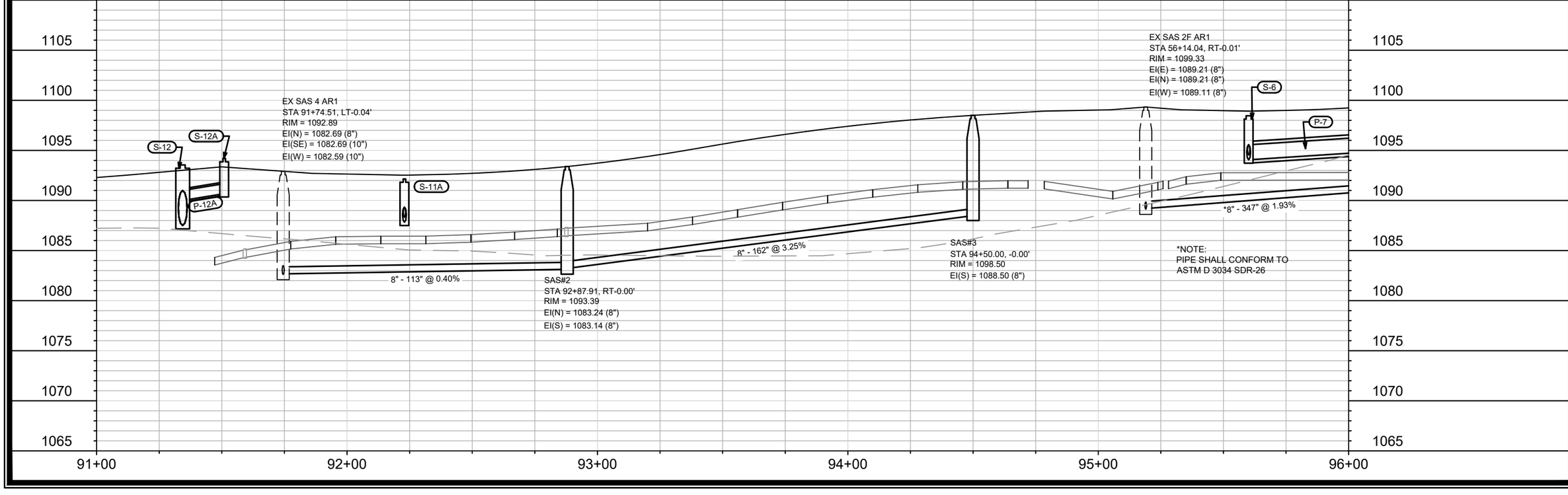
CITY OF MADISON WISCONSIN

12713

U-1





STONE ARBOR TRAIL - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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12713

MADISON, WI

CONTRACT NO: 8488

MARK	REVISION	Date: 6/10/2020 1:36 PM	DATE	BY
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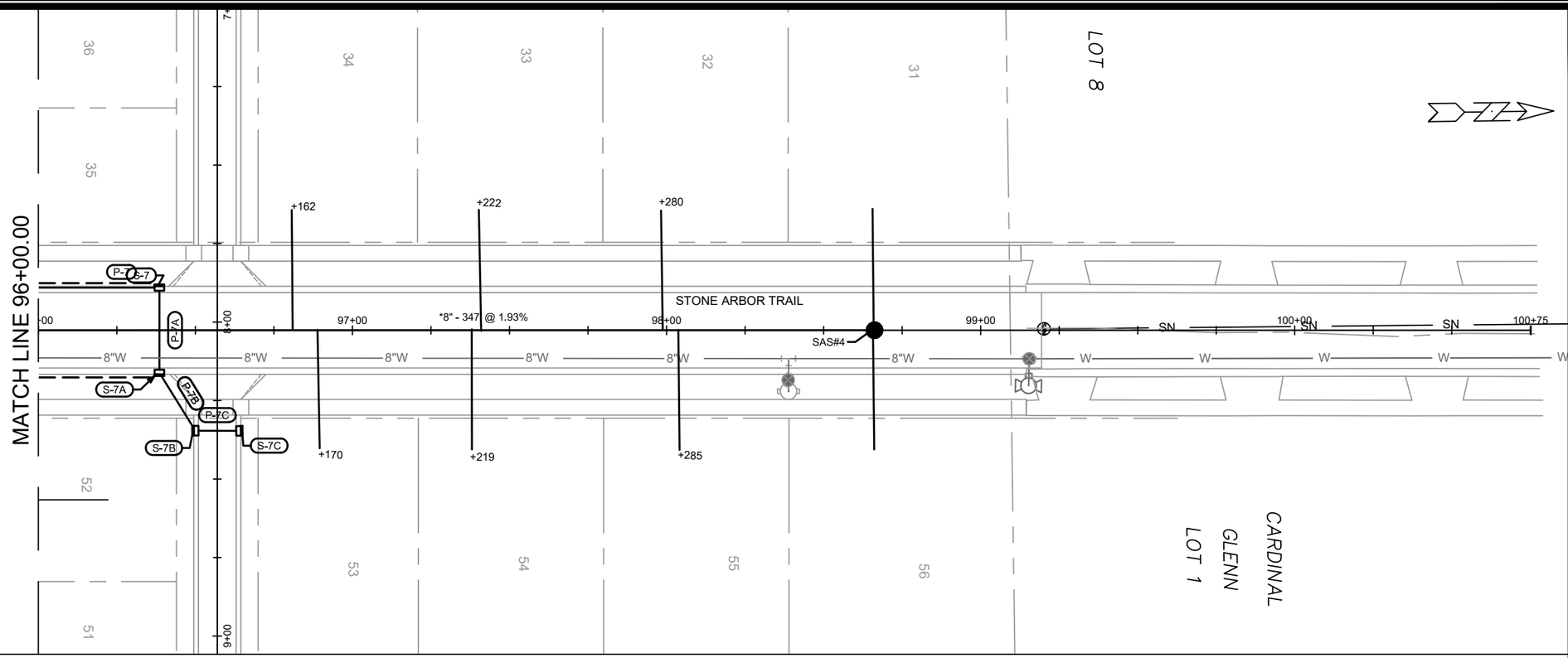
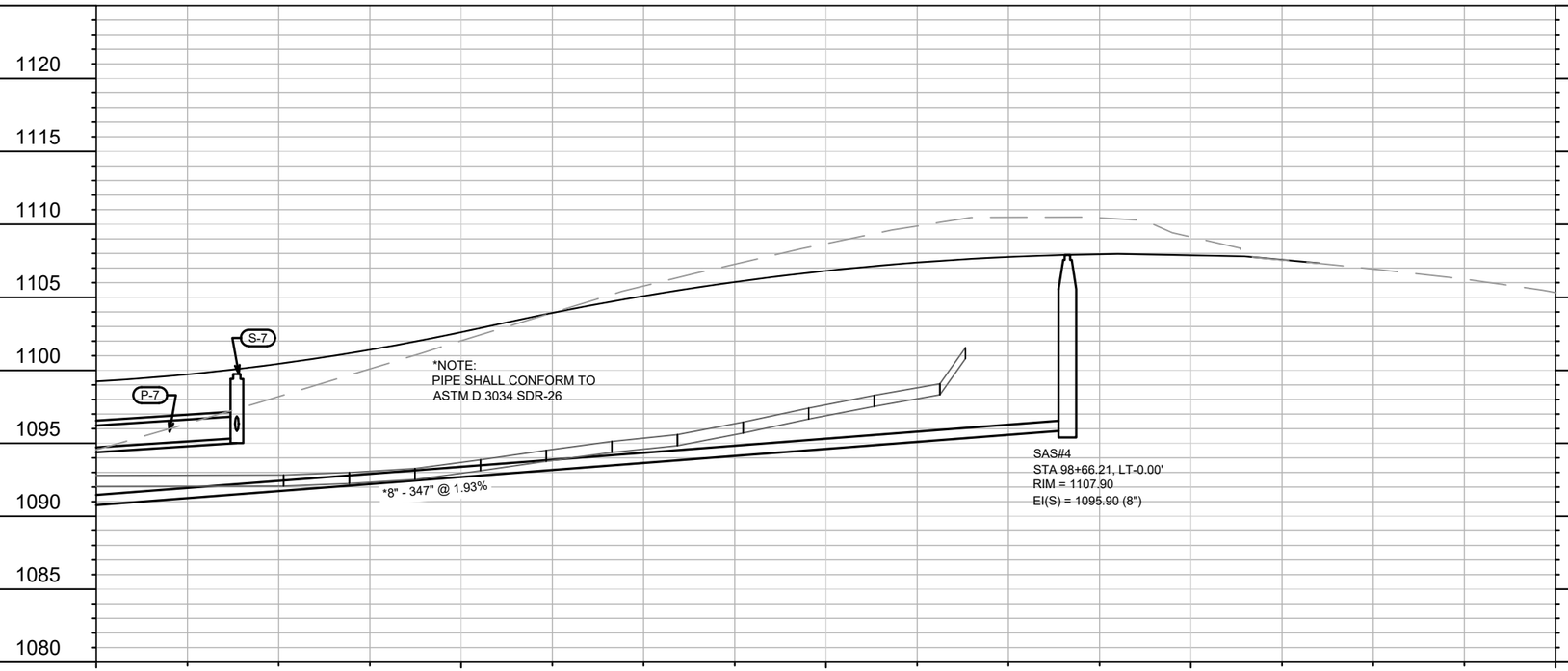
12713

U-2





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12713

MADISON, WI

8488

CONTRACT NO:

STONE ARBOR TRAIL - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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CITY OF MADISON WISCONSIN

12713

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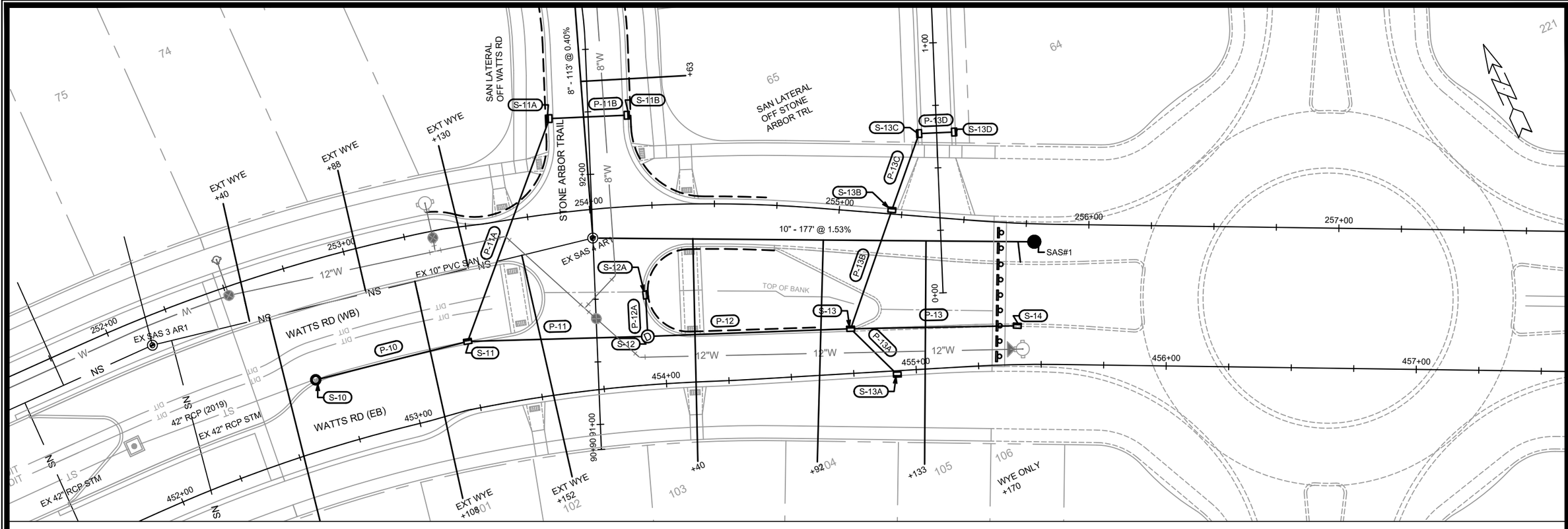

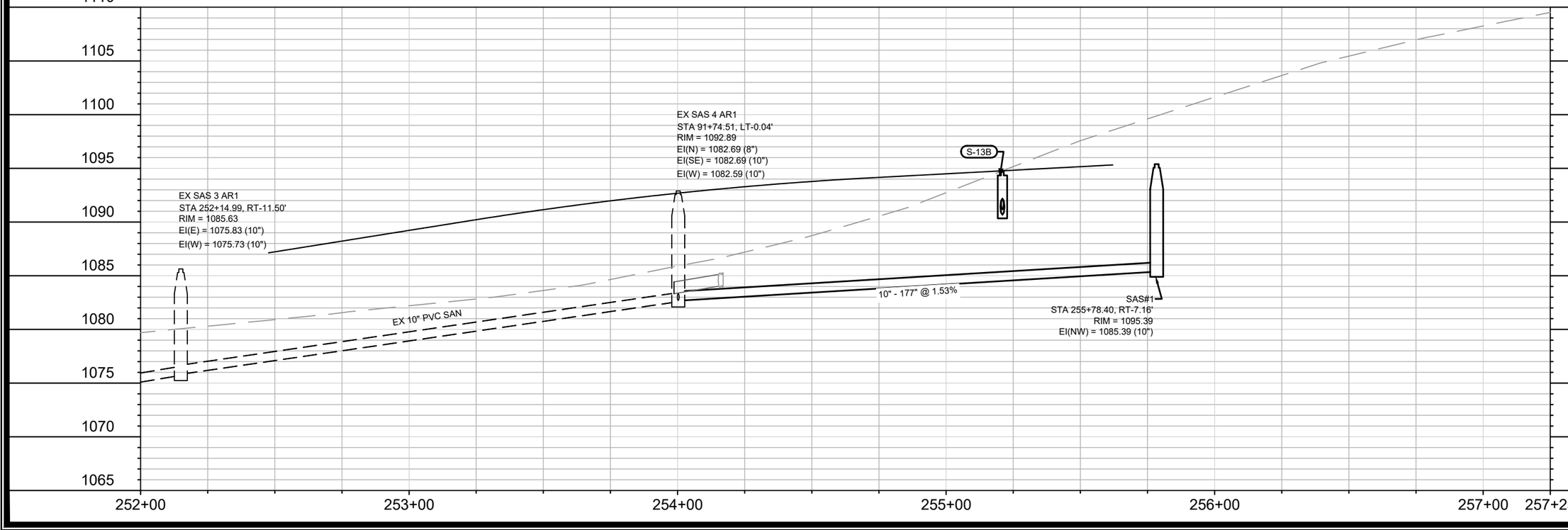

WATTS RD-WESTBOUND - UTILITIES PLAN & PROFILE

ACACIA RIDGE: PHASE 4

MADISON, WI

CONTRACT NO: 8488

12713

U-4

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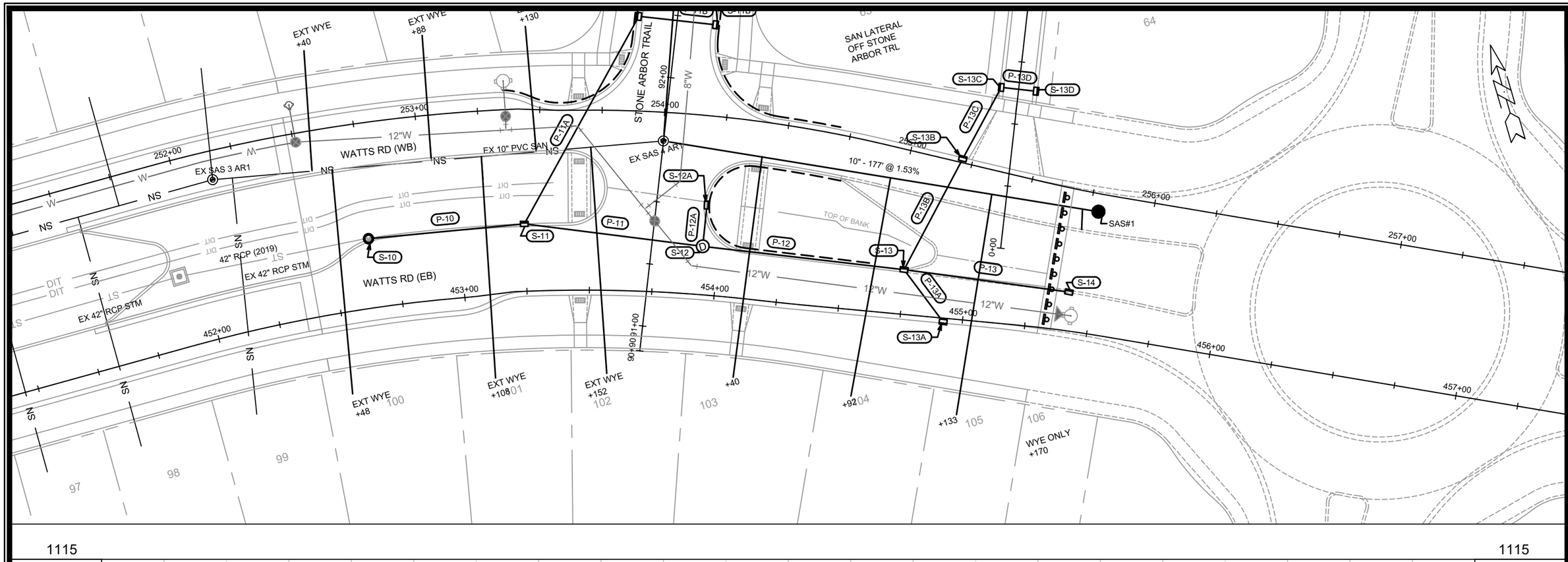

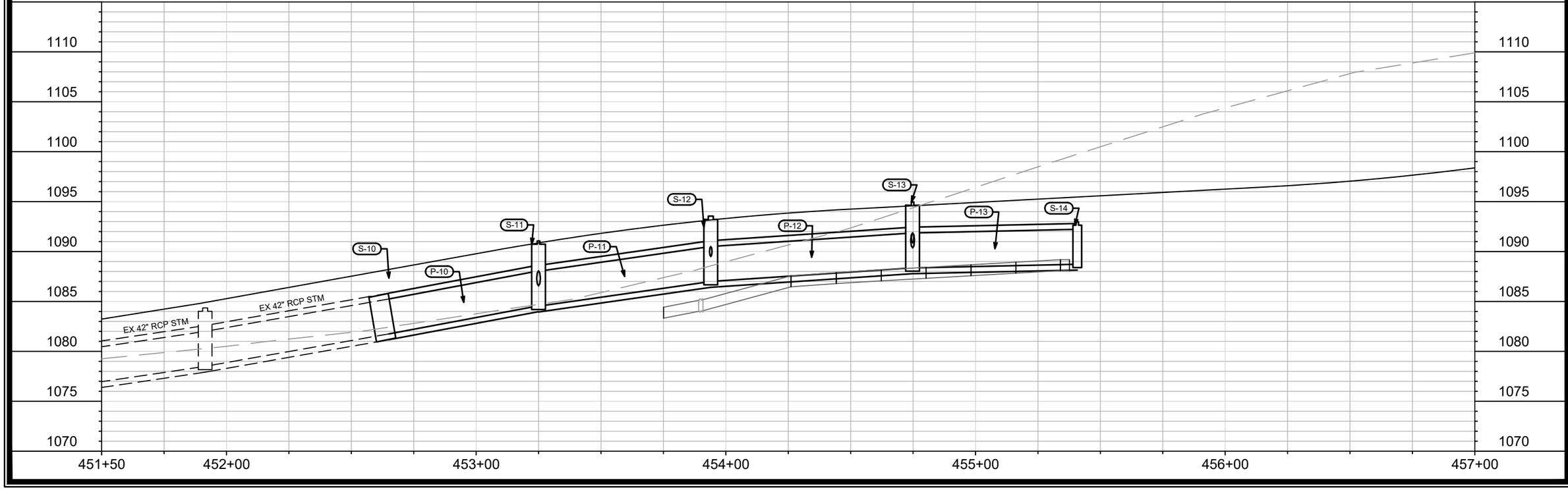

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12713

MADISON, WI

CONTRACT NO: 8488

WATTS RD-EASTBOUND - UTILITIES PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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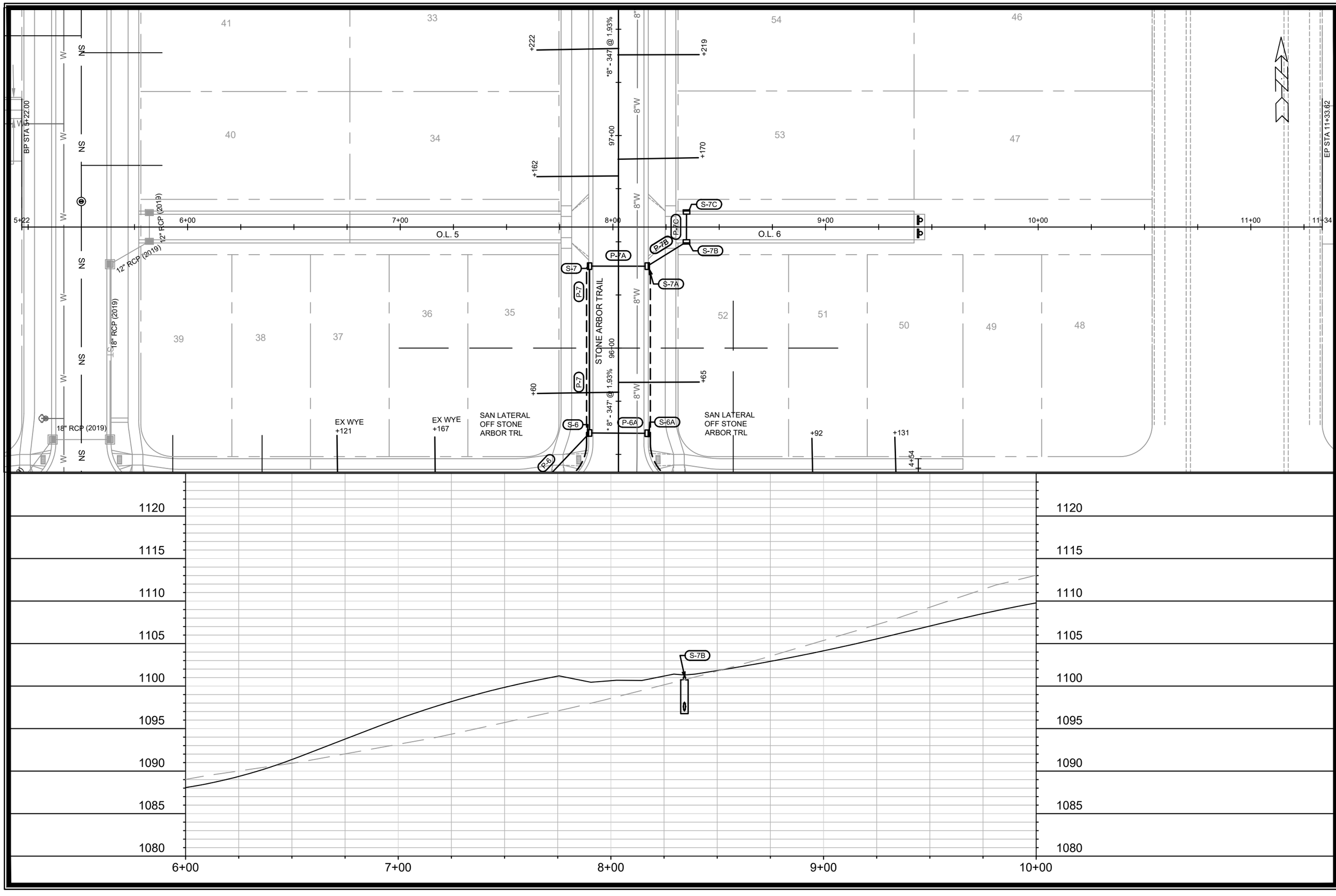
12713

U-5

U-5



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12713

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12713

MADISON, WI

CONTRACT NO: 8488

OL 5 & 6 ALLEY - PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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Designed By: EEA	Date: 6/10/2020 1:37 PM			12713	

12713

MADISON, WI

CONTRACT NO: 8488

OL 7 ALLEY - UTILITIES PLAN & PROFILE

ACACIA RIDGE: PHASE 4

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12713

U-7

SANITARY SEWER SCHEDULE

ACACIA RIDGE PHASE 4 12713	SHEET NO. U-SAN
SANITARY SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES							PROPOSED SANITARY PIPES								
SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES	FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
WATTS ROAD - WESTBOUND															
SAS#1	255+78.40	RT-7.16	1095.39	1085.39	10.00	-	EX	SAS#1	1082.69	1085.39	177	1.53%	10"	SDR- 35	-
STONE ARBOR TRAIL															
SAS#2	92+87.91	CL	1093.39	1083.14	10.25	(1)	EX	SAS#2	1082.69	1083.14	113	0.40%	8"	SDR- 35	-
SAS#3	94+50.00	CL	1098.50	1088.50	10.00	-	SAS#2	SAS#3	1083.24	1088.50	162	3.25%	8"	SDR- 35	-
SAS#4	98+66.21	CL	1107.90	1095.90	12.00	-	EX2F AR1	SAS#4	1089.21	1095.90	347	1.93%	8"	SDR- 26	-
HIGHLAND GATE WAY															
SAS#5	57+90.06	CL	1104.94	1094.94	10.00	-	EX 2F AR1	SAS#5	1089.21	1094.94	176	3.26%	8"	SDR- 35	-

NOTES:

(1) INSTALL CHIMNEY SEAL IN ACCORDANCE WITH S.D.D. 5.7.17

STORM SEWER SCHEDULE

ACACIA RIDGE PH 4	SHEET NO.
PROJECT NO. 12713	U-STM
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HIGHLAND GATE WAY							
S-0	54+80.36	RT-15.50	4X4 SAS	1092.14	1085.00	7.14	W/ R-3067-7004-V
S-1	55+76.05	RT-15.50	4X4 SAS	1097.97	1091.96	6.01	W/ R-3067-7004-V
S-2	56+58.86	RT-15.50	4X4 SAS	1100.35	1094.48	5.87	W/ R-3067-7004-V
S-2A	56+58.21	LT-15.50	H INLET	1100.34	1096.27	4.07	W/ R-3067-7004-V
S-3	57+37.53	RT-15.50	4X4 SAS	1102.43	1096.56	5.87	W/ R-3067-7004-V
S-4	57+74.50	RT-15.50	4X4 SAS	1104.32	1098.45	5.87	W/ R-3067-7004-V
S-5	55+76.22	LT-15.50	3X3 SAS	1097.97	1093.27	4.70	W/ R-3067-7004-V
STONE ARBOR TRAIL							
S-6	95+60.00	LT-13.50	3X3 SAS	1098.93	1094.06	4.87	LP; W/ R-3067-7004-VB; (1)
S-6A	95+60.00	RT-13.50	H INLET	1099.65	1095.68	3.97	LP; W/ R-3067-7004-VB; (1)
S-7	96+38.54	LT-13.50	3X3 SAS	1100.22	1095.34	4.88	W/ R-3067-7004-V
S-7A	96+38.54	RT-13.50	H INLET	1100.51	1096.47	4.04	W/ R-3067-7004-V
S-11A	92+23.00	LT-15.50	3X3 SAS	1092.62	1087.83	4.79	LP; W/ R-3067-7004-VB; (1)
S-11B	92+23.00	RT-15.50	H INLET	1093.18	1088.64	4.54	LP; W/ R-3067-7004-VB; (1)
WATTS RD - EASTBOUND							
S-10	452+65.04	LT-27.68	CONCRETE COLLAR	-	1081.75	-	
S-11	453+25.00	LT-26.97	5X5 SAS	1091.57	1084.56	7.01	W/ R-3067-7004-V
S-12	453+93.92	LT-19.35	5X5 SAS	1093.55	1087.00	6.55	W/ R-1550-0054
S-12A	453+94.27	LT-35.94	H INLET	1094.19	1090.68	3.51	LP; W/ R-3067-7004-VB; (1)
S-13	454+74.80	LT-17.50	5X5 SAS	1095.36	1088.36	7.00	W/ R-3067-7004-V
S-13A	454+92.33	RT-1.51	H INLET	1095.19	1091.12	4.07	W/ R-3067-7004-V
S-14	455+40.76	LT-15.50	PIPE END	-	1088.72	-	-
WATTS RD - WESTBOUND							
S-13B	255+20.97	LT-1.63	3X3 SAS	1095.15	1090.67	4.48	W/ R-3067-7004-V
O.L. 6							
S-7B	8+34.62	RT-6.75	H INLET	1101.12	1097.09	4.03	LP; W/ R-3362-L
S-7C	8+34.62	LT-6.75	H INLET	1101.50	1097.69	3.81	LP; W/ R-3362-L
O.L. 7							
S-13C	0+63.99	LT-6.75	H INLET	1096.08	1092.00	4.08	LP; W/ R-3362-L
S-13D	0+63.99	RT-6.75	H INLET	1096.28	1092.31	3.97	LP; W/ R-3362-L

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
P-1	S-0	S-1	1085.50	1091.96	96	92	7.02%	30"	TYPE I	-
P-2	S-1	S-2	1091.96	1094.48	83	79	3.19%	30"	TYPE I	-
P-2A	S-2	S-2A	1095.98	1096.27	31	28	1.04%	12"	TYPE I	-
P-3	S-2	S-3	1094.48	1096.56	79	75	2.77%	30"	TYPE II	-
P-4	S-3	S-4	1096.56	1098.45	37	33	5.73%	30"	TYPE II	-
P-5	S-1	S-5	1092.96	1093.27	31	28	1.11%	18"	TYPE I	-
P-6	S-5	S-6	1093.27	1094.06	35	31	2.55%	18"	TYPE II	-
P-6A	S-6	S-6A	1094.56	1095.68	27	25	4.48%	12"	TYPE I	-
P-7	S-6	S-7	1094.06	1095.34	78	76	1.68%	18"	TYPE II	-
P-7A	S-7	S-7A	1095.84	1096.47	27	25	2.52%	12"	TYPE I	-
P-7B	S-7A	S-7B	1096.47	1097.09	22	19	3.26%	12"	TYPE II	-
P-7C	S-7B	S-7C	1097.09	1097.69	14	12	5.00%	12"	TYPE I	-
P-10	S-10	S-11	1081.75	1084.56	63	58	4.84%	42"	TYPE I	-
P-11	S-11	S-12	1084.56	1087.00	72	70	3.49%	42"	TYPE I	-
P-11A	S-11	S-11A	1086.56	1087.83	95	90	1.41%	18"	TYPE I	-
P-11B	S-11A	S-11B	1088.33	1088.64	31	29	1.07%	12"	TYPE I	-
P-12	S-12	S-13	1087.00	1088.36	81	84	1.62%	42"	TYPE I	-
P-12A	S-12	S-12A	1089.50	1090.68	17	12	9.83%	12"	TYPE I	-
P-13	S-13	S-14	1088.36	1088.72	67	72	0.50%	42"	TYPE I	-
P-13A	S-13	S-13A	1090.86	1091.12	26	21	1.24%	12"	TYPE I	-
P-13B	S-13	S-13B	1090.36	1090.67	50	47	0.66%	18"	TYPE I	-
P-13C	S-13B	S-13C	1091.17	1092.00	32	29	2.86%	12"	TYPE II	-
P-13D	S-13C	S-13D	1092.00	1092.31	14	12	2.58%	12"	TYPE I	-

SPECIFIC NOTES:

(1) INSTALL LOW POINT PVC DRAIN; SEE S.D.D. 5.7.7A

STANDARD NOTES:

-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.

-KOR N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO INLETS. IN ADDITION, KOR N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTIONS TO SAS STORM STRUCTURES. CONCRETE COLLARS OR KOR N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

- 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.

- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

*NOTE -- INSTALL WATER SERVICE LATERALS MIN. OF 18--IN BELOW BOTTOM OF STORM PIPE FROM STA. 55+00 TO 57+50 AND INSTALL INSULATION BETWEEN THE LATERAL AND STORM PIPE

STA. 91+46.6, 4.4 LT
12X8-IN TEE

STA. 91+59.2, 8.4 RT
8-IN 45° BEND

STA. 92+24.9, 0.1' RT
INSULATION TYP.

STA. 92+87.7, 9.0 RT
8-IN 22-1/2° BEND

STA. 94+78.2, 8.1 RT
8-IN VALVE & BOX

STA. 94+72.6, 8.1 RT
8X6-IN TEE

STA. 94+72.6, 11.6 RT
6-IN VALVE & BOX

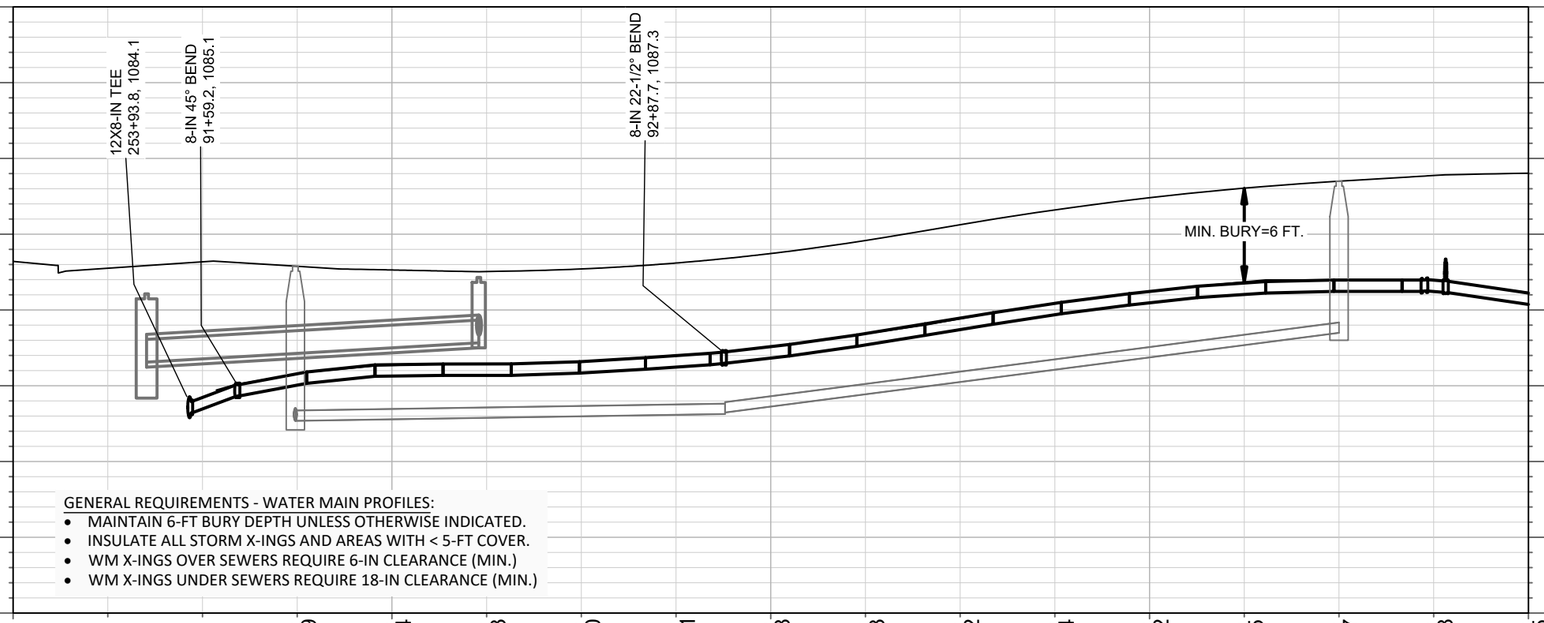
STA. 94+72.7, 20.2 RT
5-IN HYDRANT

MATCH LINE STA. 95+00

WATTS ROAD

STONE ARBOR TRAIL

WN 9
1-IN



GENERAL REQUIREMENTS - WATER MAIN PROFILES:

- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SCALE: 1" = 40'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/6/20

CONTRACT NO: 8488

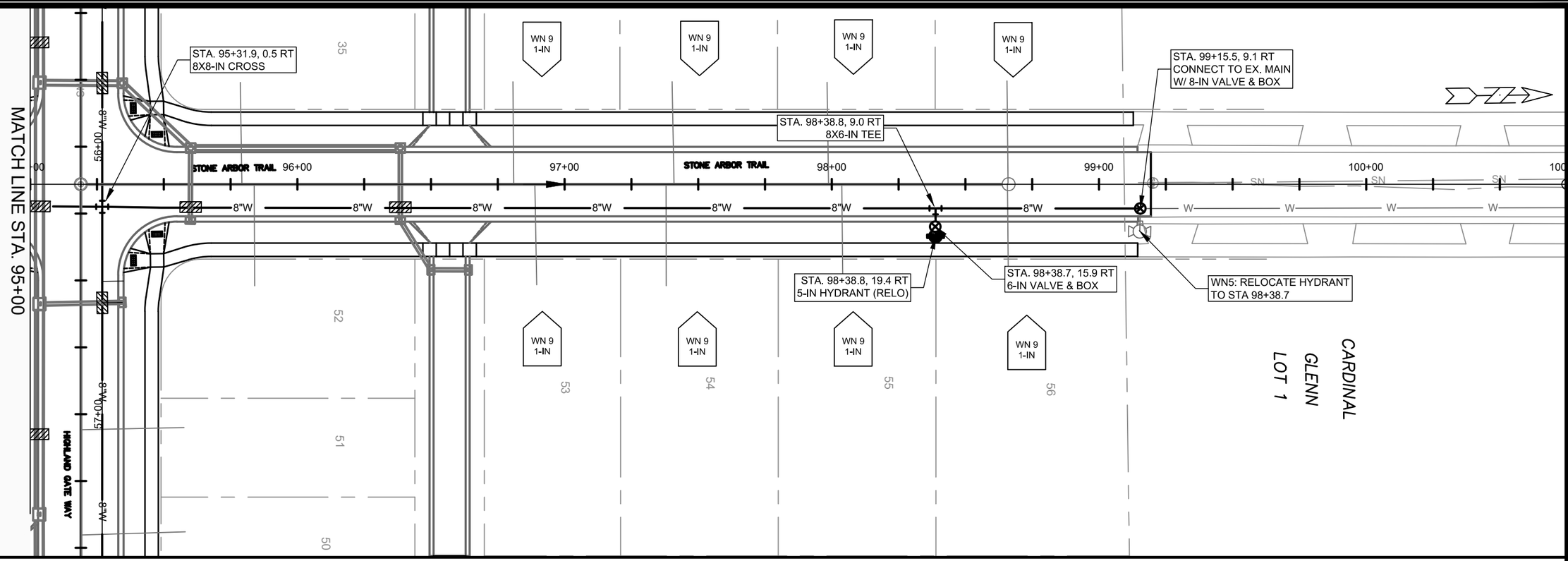
ACACIA RIDGE PHASE 4

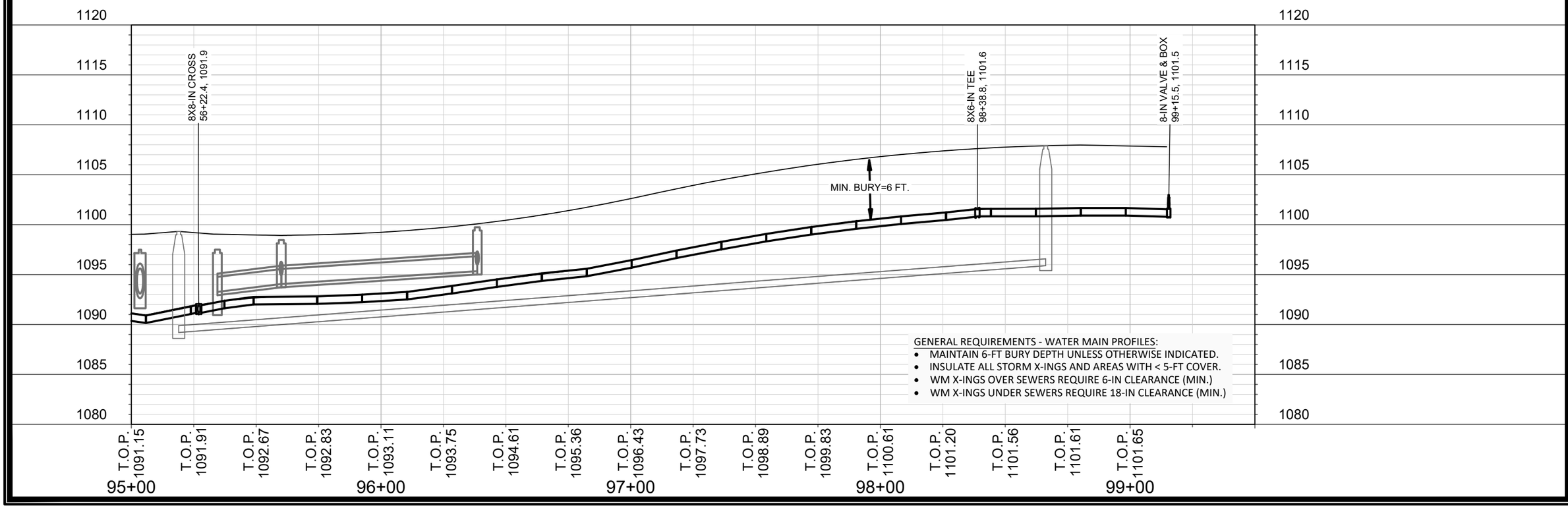
WATER PLAN & PROFILE: STONE ARBOR TRAIL

CITY OF MADISON, WISCONSIN

12713

W-1





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SCALE: 1" = 40'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/6/20

CONTRACT NO: 8488

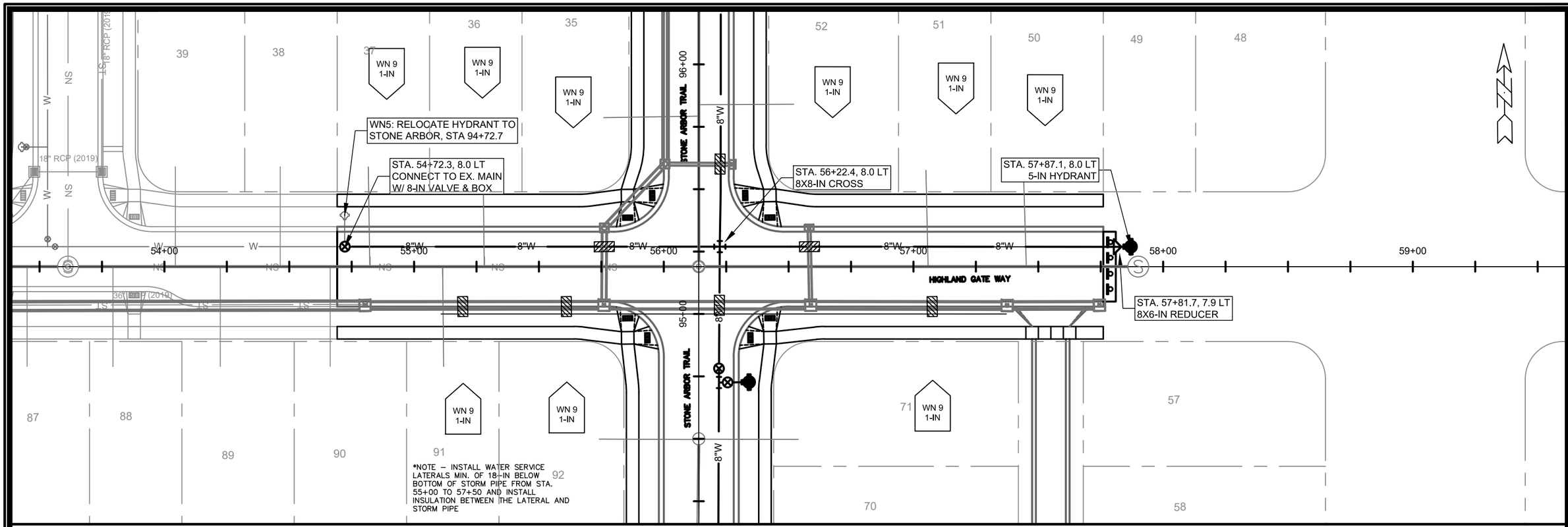
ACACIA RIDGE PHASE 4

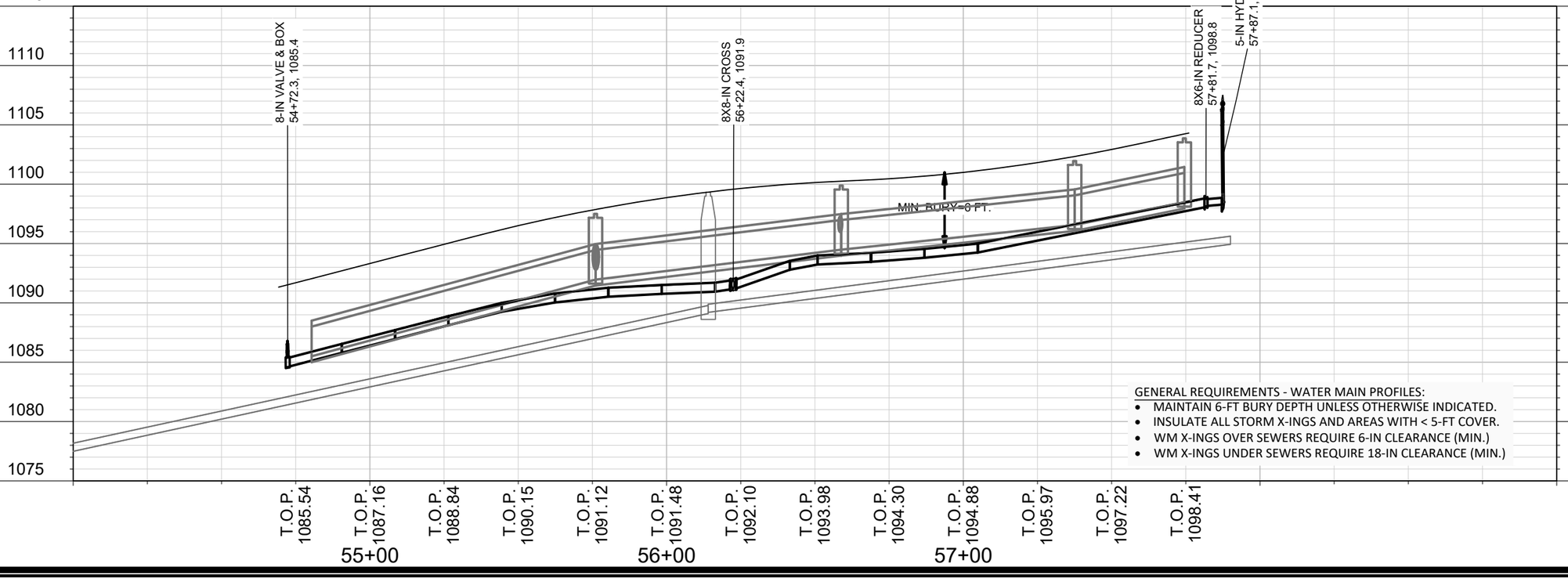
WATER PLAN & PROFILE: STONE ARBOR TRAIL

CITY OF MADISON, WISCONSIN

12713

W-2





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SCALE: 1" = 40'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/6/20

CONTRACT NO: 8488

ACACIA RIDGE PHASE 4

WATER PLAN & PROFILE: HIGHLAND GATE WAY

CITY OF MADISON, WISCONSIN

12713

W-3

STA. 253+65.0, 6.4 RT
12-IN 45° BEND

STA. 253+35.9, 11.5 LT
5-IN HYDRANT(RELO.)

STA. 253+36.2, 2.6 RT
6-IN VALVE & BOX

STA. 253+36.1, 8.2 RT
12X6-IN TEE

STA. 252+51.0, 3.6 RT
12-IN VALVE & BOX

STA. 253+93.8, 39.1 RT
12X8-IN TEE

STA. 253+98.4, 43.7 RT
12-IN VALVE & BOX

STA. 255+71.2, 50.4 RT
12X6-IN REDUCER

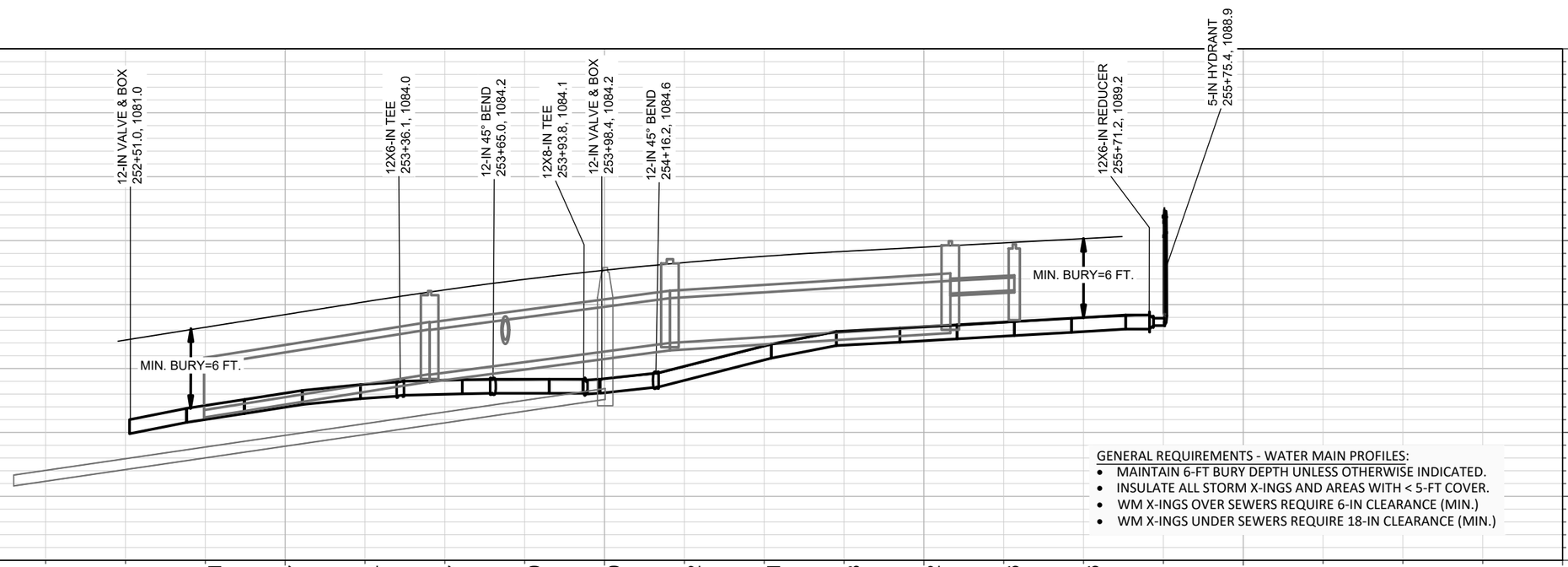
STA. 255+75.4, 50.1 RT
5-IN HYDRANT

STA. 254+16.2, 60.5 RT
12-IN 45° BEND

*NOTE – INSTALL WATER SERVICE LATERALS MIN. OF 18–IN BELOW BOTTOM OF STORM PIPE FROM STA. 252+50 TO 254+50 AND INSTALL INSULATION BETWEEN THE LATERAL AND STORM PIPE

42" RCP (2019)

WN 9 1-IN



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- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SCALE: 1" = 40'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 5/6/20

CONTRACT NO: 8488

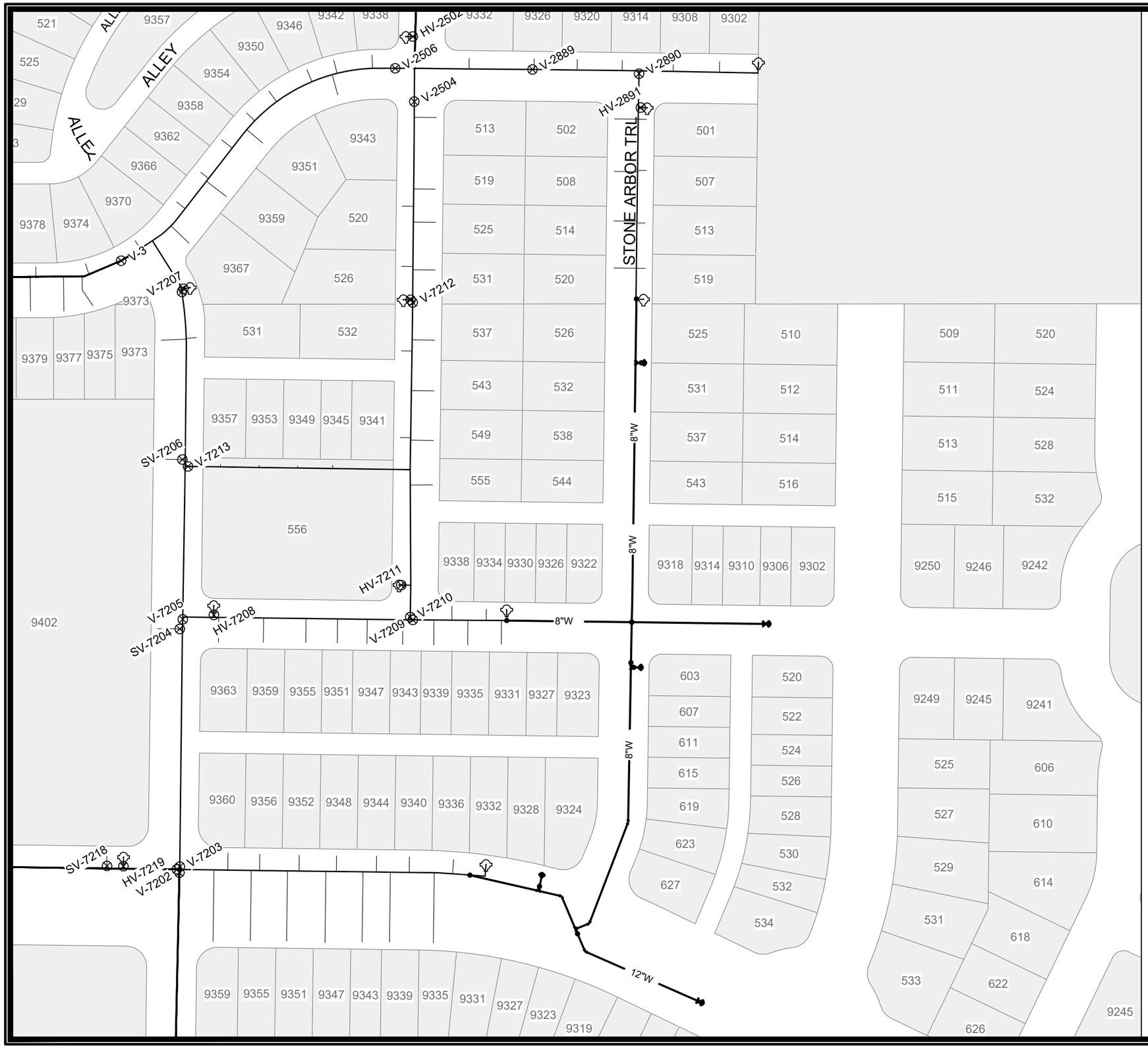
ACACIA RIDGE PHASE 4

WATER PLAN & PROFILE: WATTS ROAD

CITY OF MADISON, WISCONSIN

12713

W-4



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

Madison Water Utility

SCALE: 1" = 120'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/6/20

CONTRACT NO: 8488

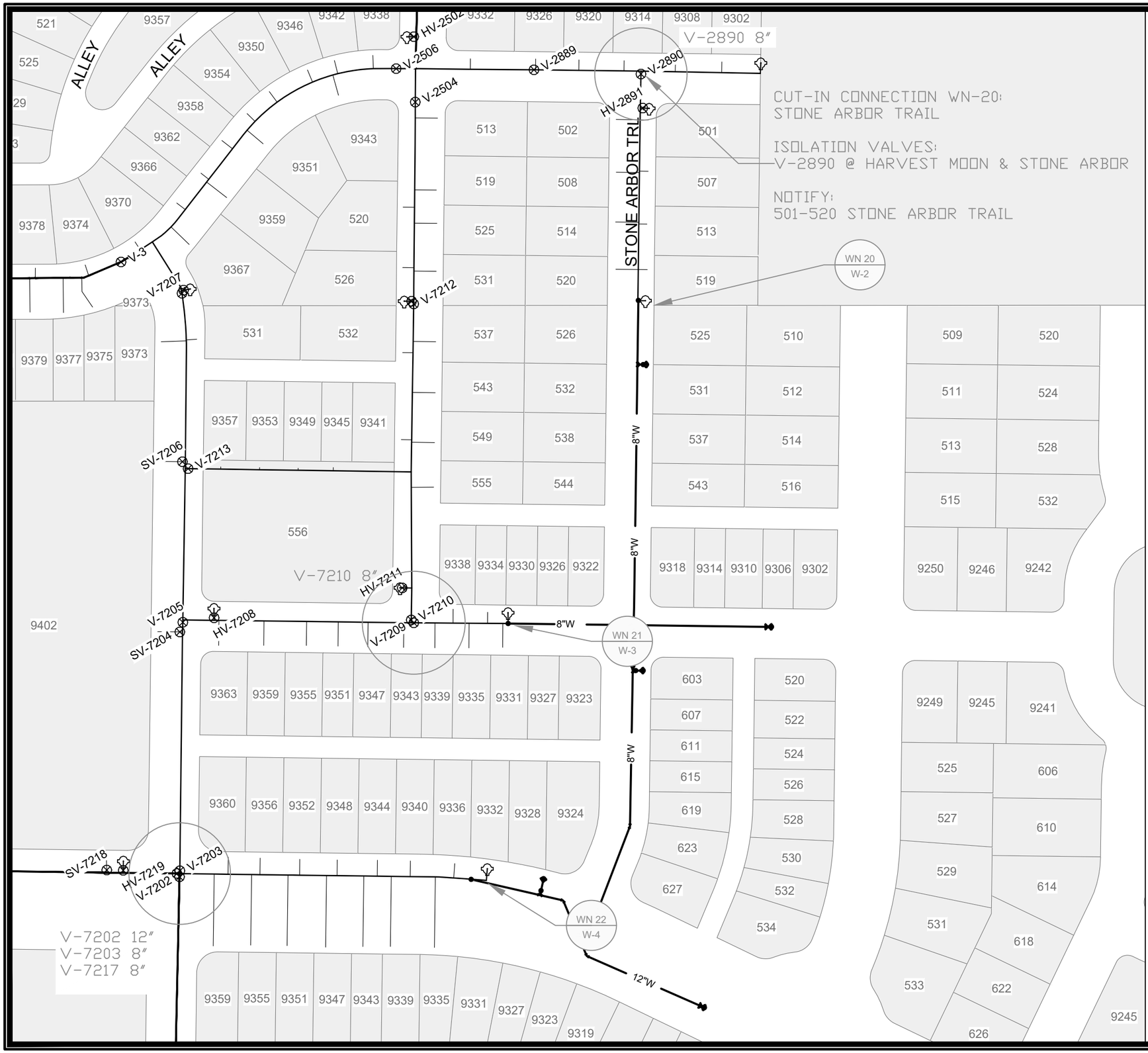
ACACIA RIDGE PHASE 4

WATER IMPACT PLAN

CITY OF MADISON, WISCONSIN

12713

W-5



CUT-IN CONNECTION WN-20:
STONE ARBOR TRAIL

ISOLATION VALVES:
V-2890 @ HARVEST MOON & STONE ARBOR

NOTIFY:
501-520 STONE ARBOR TRAIL

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

CUT-IN CONNECTION WN-21:
HIGHLAND GATE WAY

ISOLATION VALVES:
V-7210 @ ROMAN MIST & HIGHLAND GATE

NOTIFY:
9331-9339 HIGHLAND GATE WAY

CUT-IN CONNECTION WN-22:
WATTS ROAD

ISOLATION VALVES:
V-7217, V-7201, AND V-7202 @
WATTS & FEATHER SOUND

NOTIFY:
9335 - 9360 WATTS ROAD

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

Madison Water Utility

SCALE: 1" = 120'
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/6/20

CONTRACT NO: 8488

ACACIA RIDGE PHASE 4

WATER IMPACT PLAN

CITY OF MADISON, WISCONSIN

12713

W-6

Madison Water Utility

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 CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN REPARATION. CONTRACTOR IS RESPONSIBLE OR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

WN1	REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
WN-2	EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
WN-3	EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
WN-4	DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
WN-5	RELOCATE THE EXISTING FIRE HYDRANT.
WN-6	ABANDON WATER VALVE ACCESS STRUCTURE.
WN-7	FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
WN-8	ABANDON THE VALVE BOX.
WN-9	FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
WN-10	REMOVE AND SALVAGE EXISTING HYDRANT
WN-11	REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
WN-20+	SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

WATER UTILITY ULO SCHEDULE

ULO	UTILITY	STATION	OFFSET	SHEET

*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:			
PAY_ITEM_ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	55	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	1190	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	360	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	3	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	3	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	2	EACH
70040	FURNISH INSTALL AND SALVAGE HYDRANT	3	EACH
70050	FURNISH AND INSTALL 1-INCH SERVICE LATERALS	33	EACH
71041	8X8-IN CROSS	1	EACH
71123	8-IN 45° BEND	1	EACH
71125	12-IN 45° BEND	2	EACH
71135	8-IN 22-1/2° BEND	1	EACH
71159	8X6-IN REDUCER	1	EACH
71164	12X6-IN REDUCER	1	EACH
71210	8X6-IN TEE	1	EACH
71217	12X6-IN TEE	1	EACH
71218	12X8-IN TEE	1	EACH
*ESTIMATE OF MATERIALS SALVAGED:			
WN10	8x6 TEE	2	EACH
WN10	5IN HYDRANT	2	EACH
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*			

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.

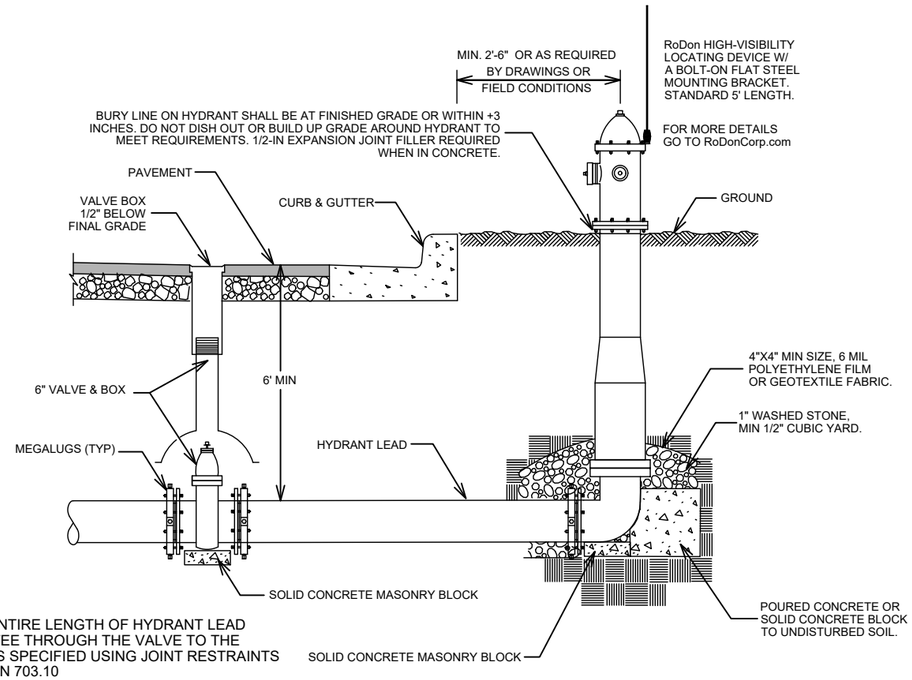
MEMBER ONE CALL SYSTEMS INTERNATIONAL

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: 12/2018



NOTE:

1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

SCALE: N/A
DESIGNED BY: TDP/KBM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 5/6/20

CONTRACT NO: 8488

ACACIA RIDGE PHASE 4

WATER ESTIMATE OF MATERIALS

CITY OF MADISON, WISCONSIN

12713

W-7

251+75.00

252+25.00

251+58.00

252+00.00

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12713

MADISON, WI

CONTRACT NO: 8488

WATTS ROAD - CROSS SECTIONS

ACACIA RIDGE: PHASE 4

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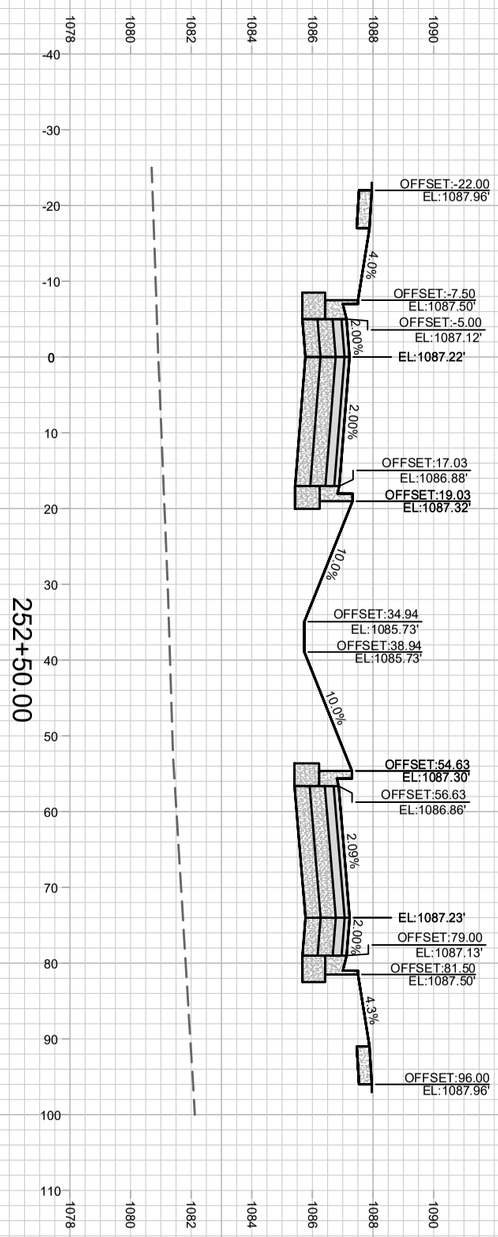
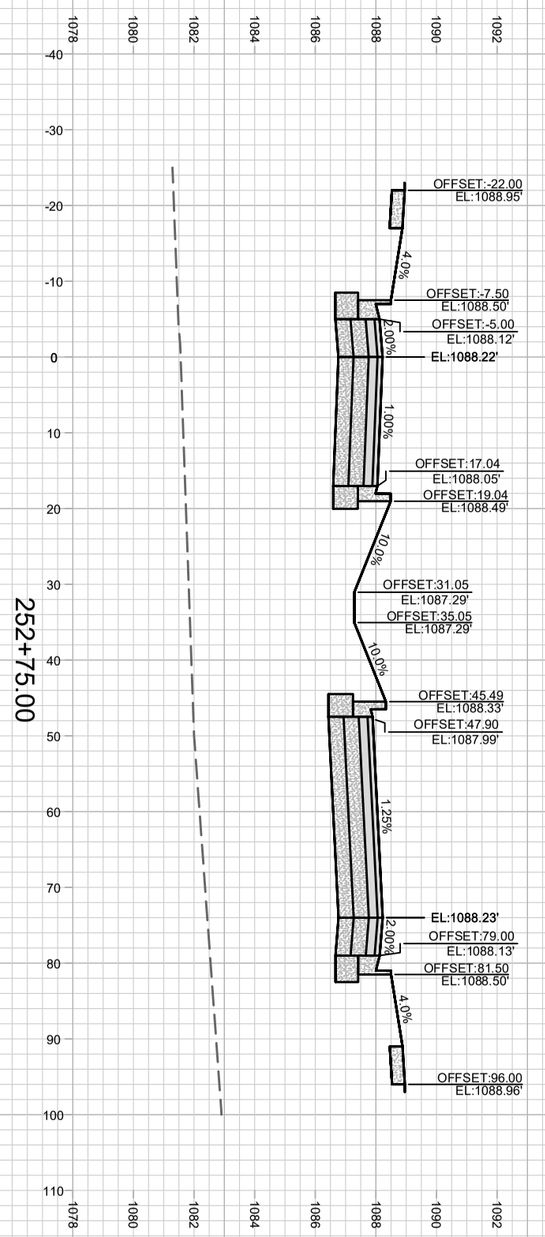
12713

X-1





X-2	12713	WATTS ROAD - CROSS SECTIONS	12713
		ACACIA RIDGE: PHASE 4	MADISON, WI
		M:\DESIGN\Projects\12713\C3D\Streets\12713en-corridor.dwg	CONTRACT NO: 8488

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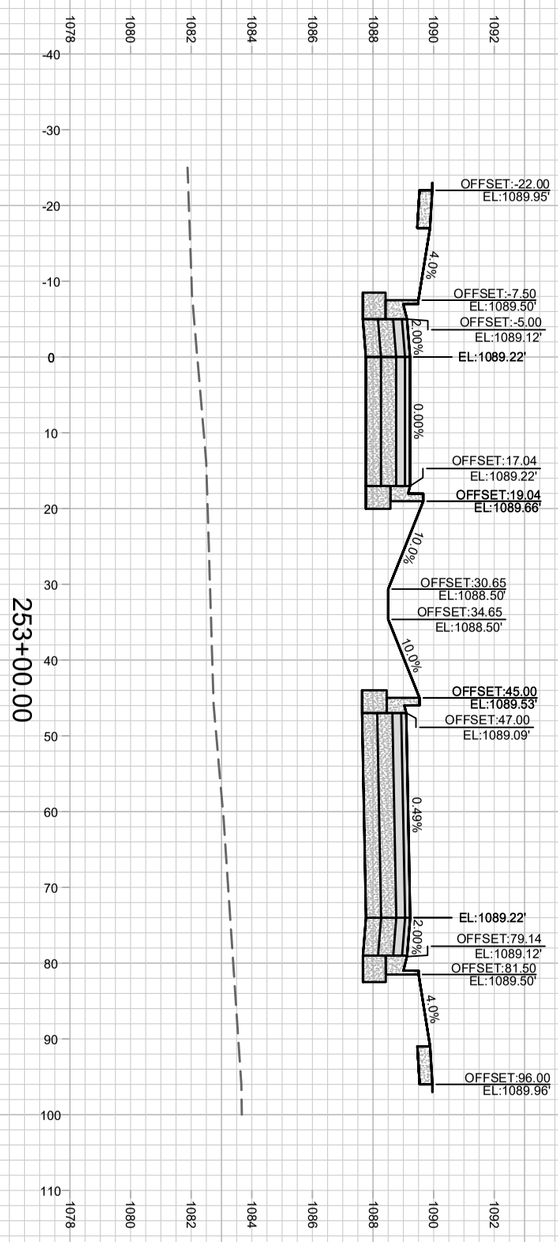

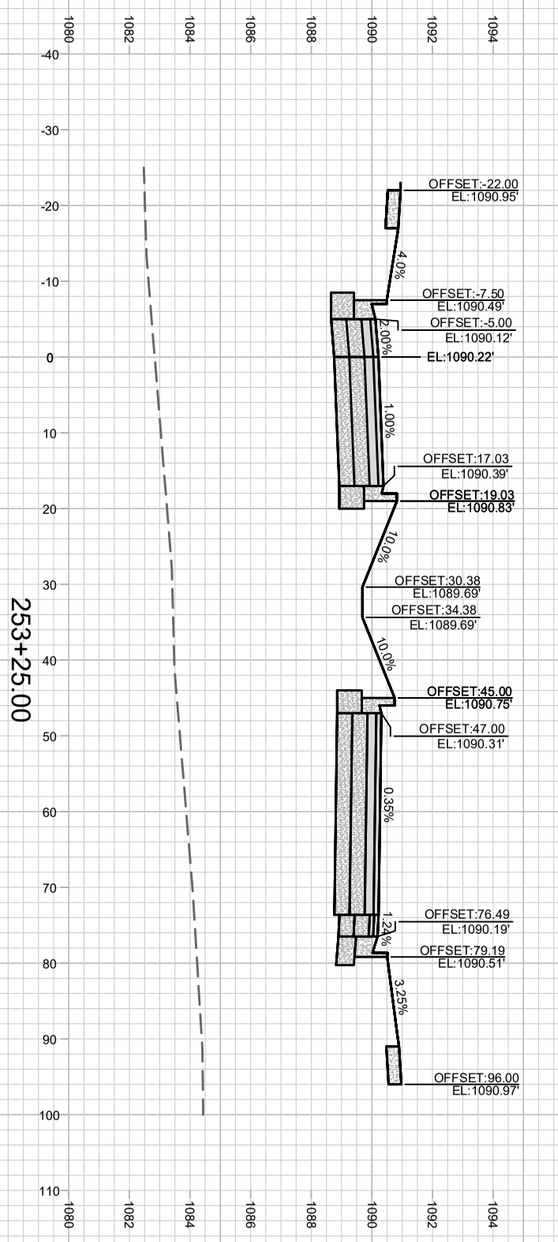

X-3

12713

WATTS ROAD - CROSS SECTIONS 12713

ACACIA RIDGE: PHASE 4 MADISON, WI

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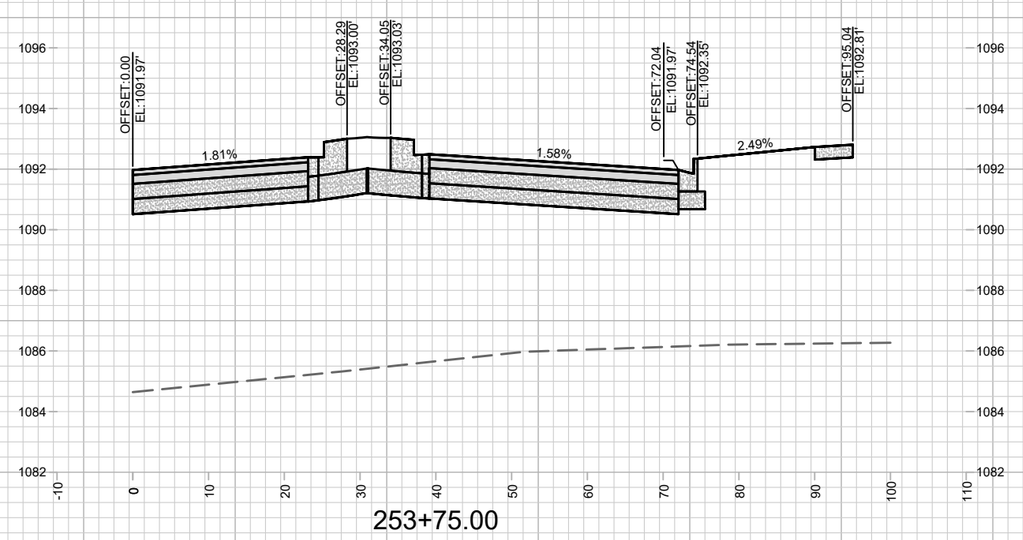
12713 X-3

SEE PLAN & PROFILES FOR INTERSECTION GRADES



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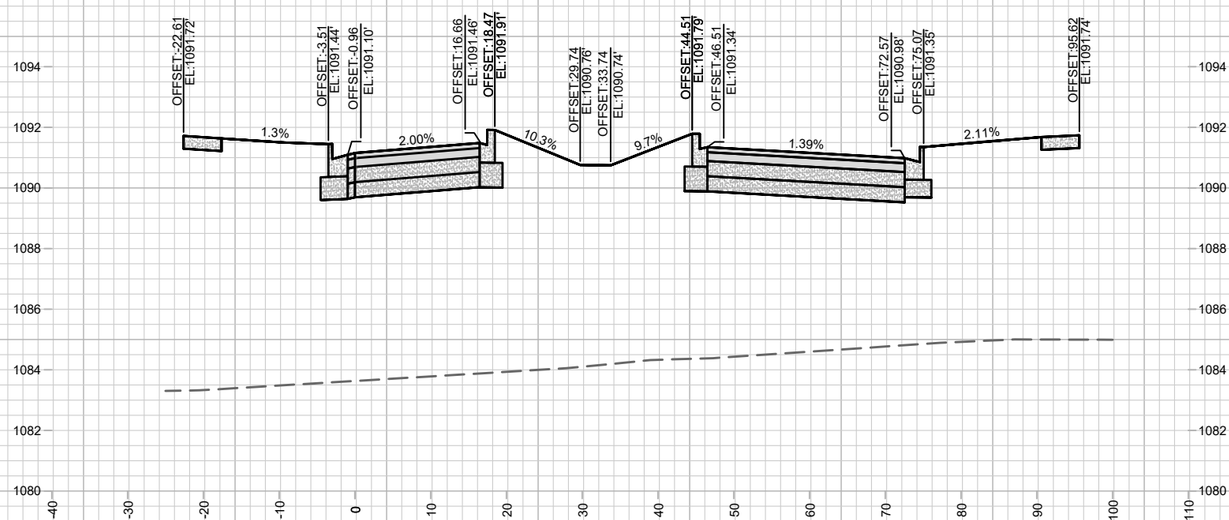

253+50.00

12713

MADISON, WI

CONTRACT NO: 8488

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WATTS ROAD - CROSS SECTIONS

ACACIA RIDGE: PHASE 4

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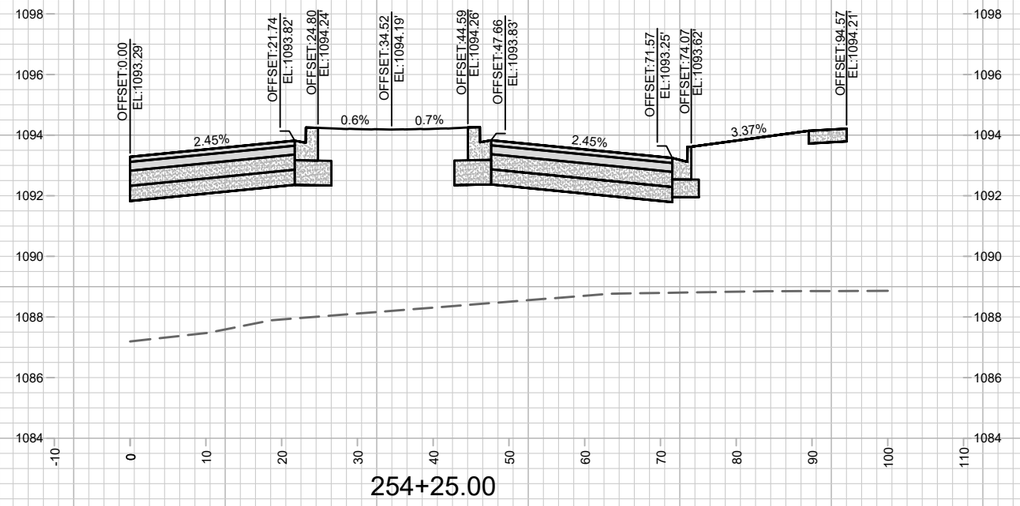
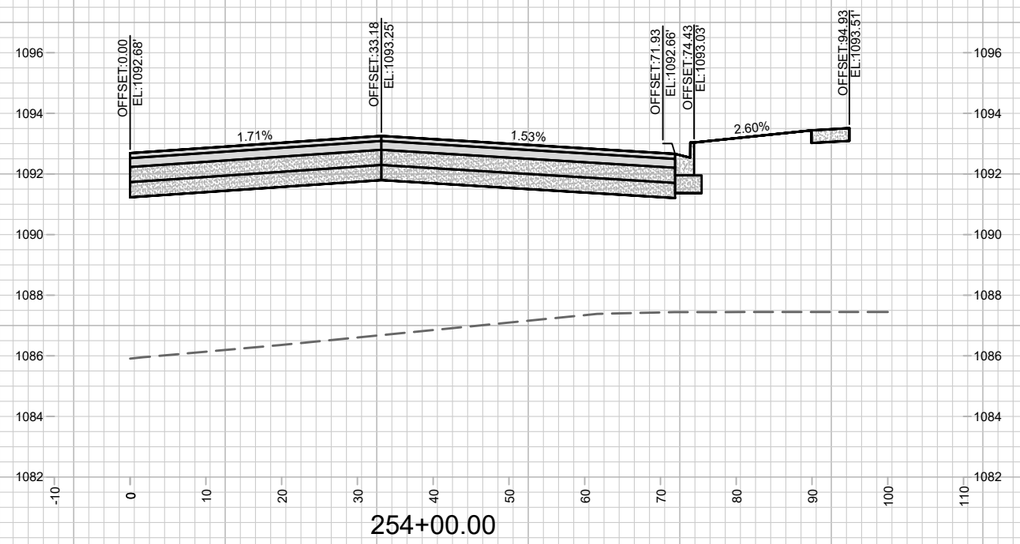
X-4

SEE PLAN & PROFILES FOR INTERSECTION GRADES



SEE PLAN & PROFILES FOR INTERSECTION GRADES



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12713					X-5

12713

MADISON, WI

CONTRACT NO: 8488

WATTS ROAD - CROSS SECTIONS

ACACIA RIDGE: PHASE 4

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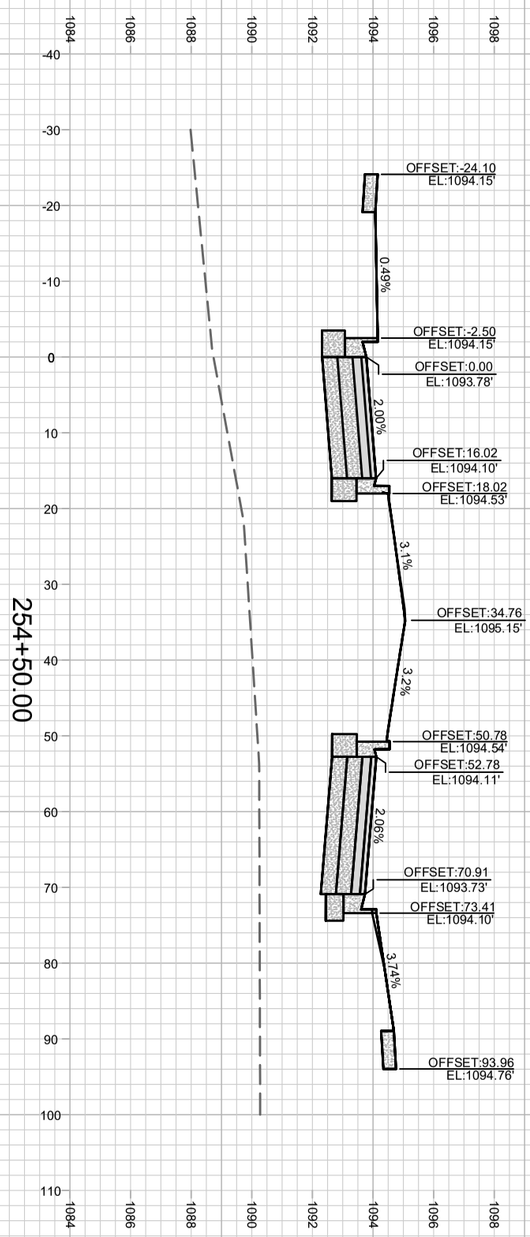
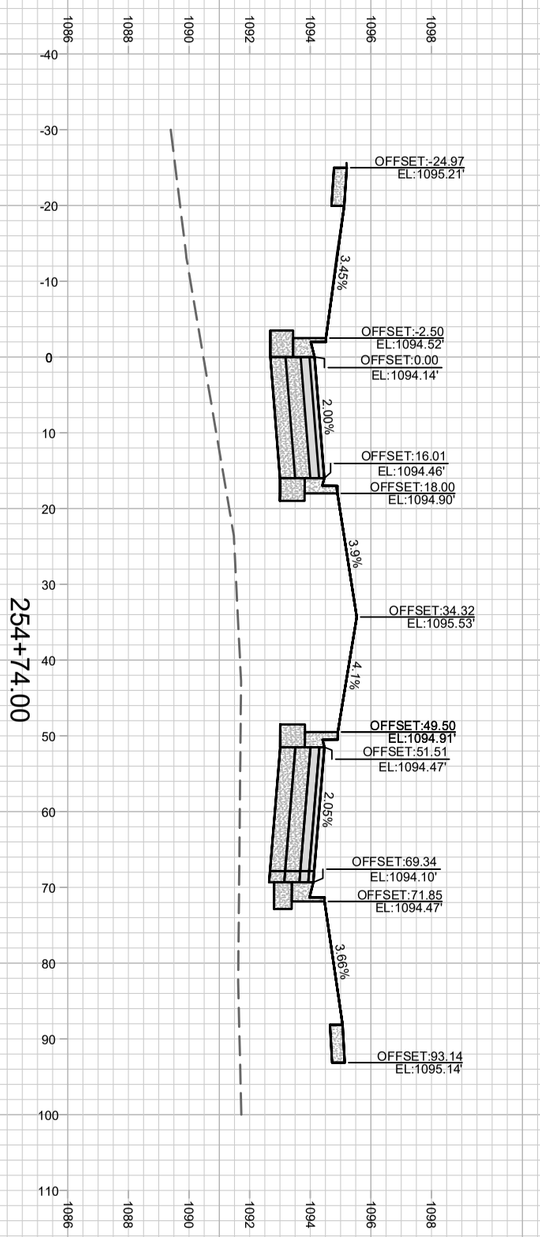
CITY OF MADISON WISCONSIN

12713

X-5





X-6

12713

WATTS ROAD - CROSS SECTIONS 12713

ACACIA RIDGE: PHASE 4 MADISON, WI

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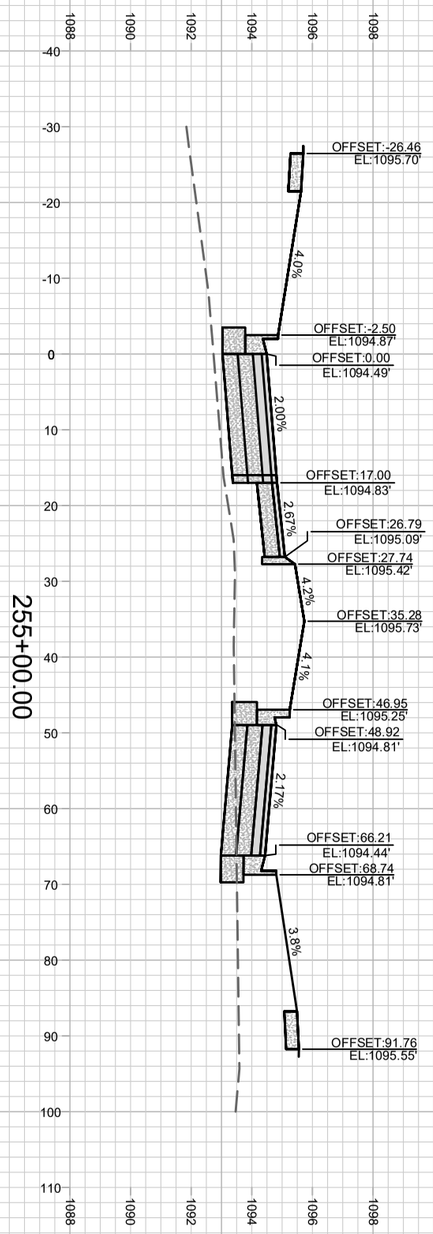
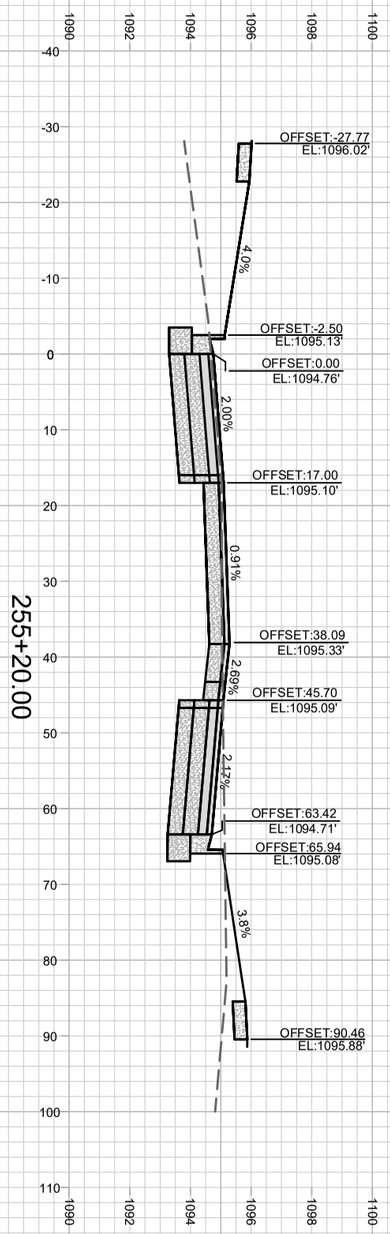
Designed By: AJC | Date: 5/29/2020 2:20 PM | Scale: 1" = 20'

12713 X-6





X-7

12713

WATTS ROAD - CROSS SECTIONS

12713

ACACIA RIDGE: PHASE 4

MADISON, WI

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CONTRACT NO: 8488

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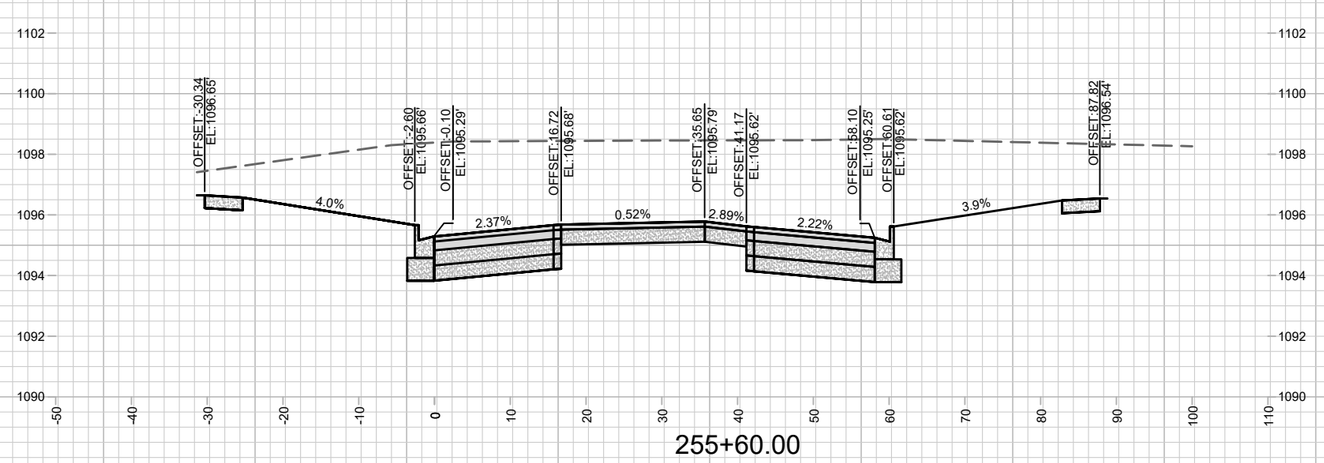
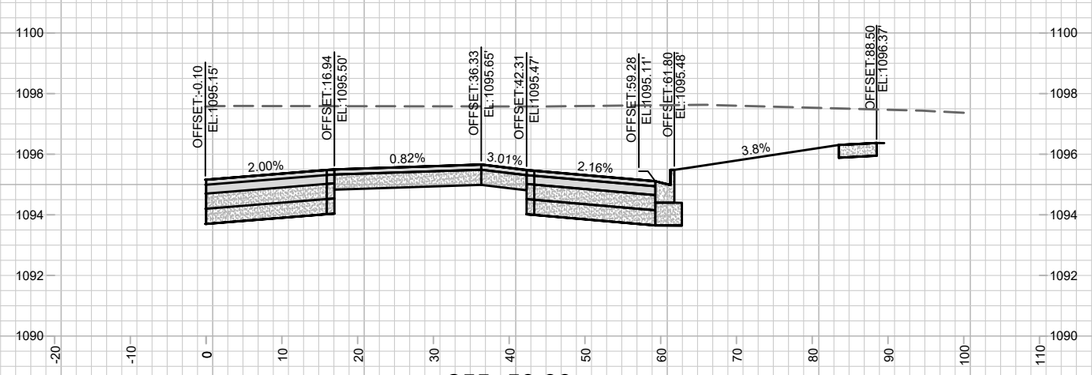
Designed By: AJC | Date: 5/29/2020 2:20 PM | Scale: 1" = 20'

12713 | X-7



255+60.00

SEE PLAN & PROFILES FOR DRIVEWAY APRON & SIDEWALK GRADES



255+50.00

12713

MADISON, WI

CONTRACT NO: 8488

WATTS ROAD - CROSS SECTIONS

ACACIA RIDGE: PHASE 4

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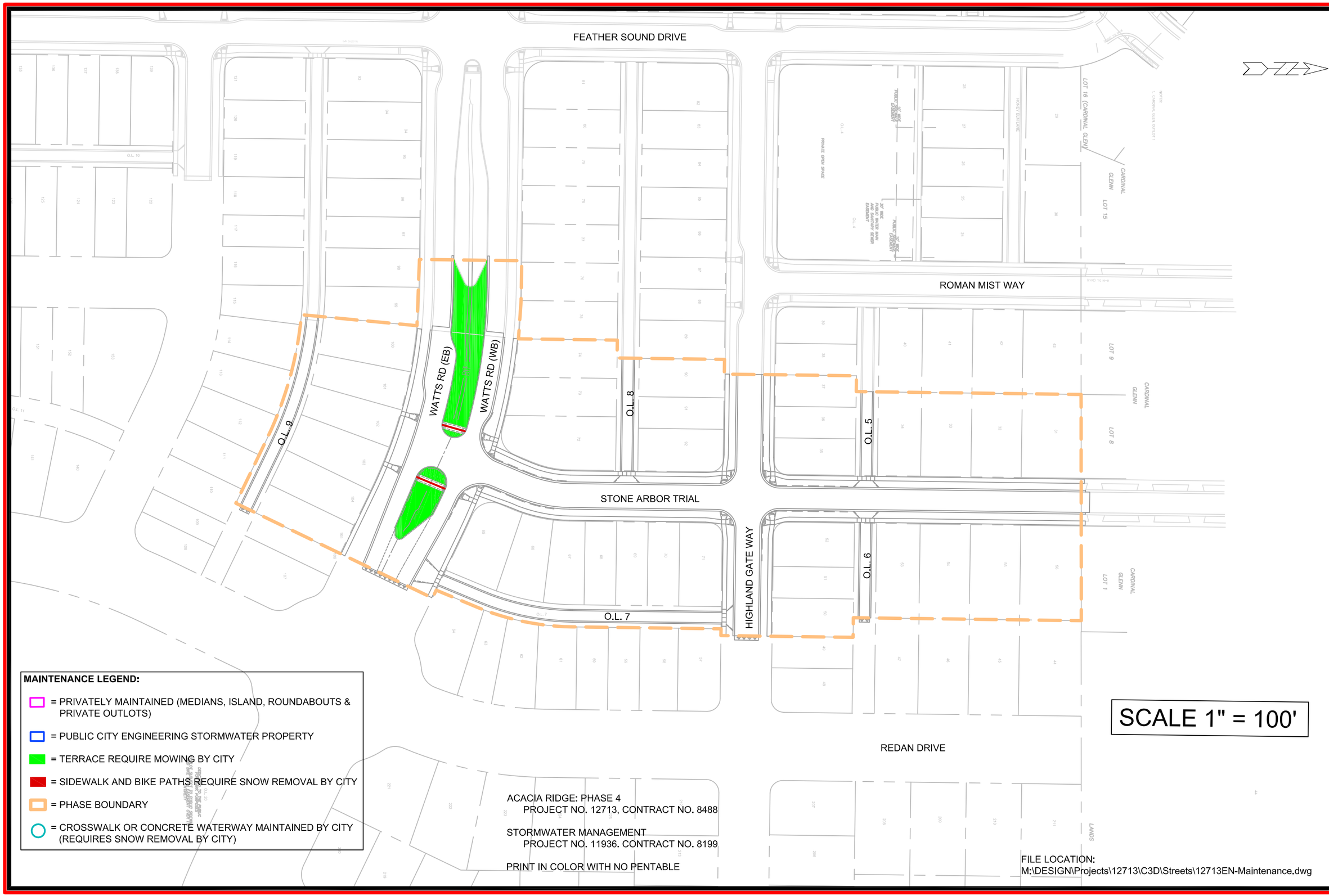
12713

X-8



MAINTENANCE LEGEND:

- = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)
- = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
- = TERRACE REQUIRE MOWING BY CITY
- = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- = PHASE BOUNDARY
- = CROSSWALK OR CONCRETE WATERWAY MAINTAINED BY CITY (REQUIRES SNOW REMOVAL BY CITY)

ACACIA RIDGE: PHASE 4
PROJECT NO. 12713, CONTRACT NO. 8488

STORMWATER MANAGEMENT
PROJECT NO. 11936. CONTRACT NO. 8199

PRINT IN COLOR WITH NO PENTABLE

FILE LOCATION:
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MARK	REVISION	DATE	BY

Designed By: AJC | Date: 5/15/2020 3:25 PM | Scale: ########

12713 | MN-1

12713

MADISON, WI

CONTRACT NO: 8488

MAINTENANCE MAP

ACACIA RIDGE: PHASE 4

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12713

MN-1

12713EN-AcaciaRidge-Ph4

Final Audit Report 2020-06-19

Created:	2020-06-19
By:	ENG- Christy Bachmann (CBACHMANN@CITYOFMADISON.COM)
Status:	Signed
Transaction ID:	CBJCHBCAABAAfNCoM5Wi-gnMAOBN62lN8l1IznFm7i20

"12713EN-AcaciaRidge-Ph4" History

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Signed document emailed to John Sapp (jsapp@cityofmadison.com), Mark Moder (mmoder@cityofmadison.com), EN- Greg Fries (gfries@cityofmadison.com), Mark Winter (mwinter@cityofmadison.com), and 3 more
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Adobe Sign