

Madison, Wisconsin

INDEX OF SHEETS

SHEET NO.	TITLE
1	
D 1	STANDARD COMMENTS
D 2-D 4	TYPICAL SECTIONS
O 1	OVERVIEW PLAN
P 1-P 8	PLAN & PROFILES
U 1-U 8	UTILITIES PLAN & PROFILE
U 9	SANITARY SEWER SCHEDULE
U 10	STORM SEWER SCHEDULE
W 1-W 5	WATER PLAN & PROFILES
W 6	WATER ESTIMATE OF MATERIALS
W 7	WATER IMPACT PLAN
X 1- X 10	CROSS SECTIONS
MN 1	MAINTENANCE PLAN

# CITY OF MADISON

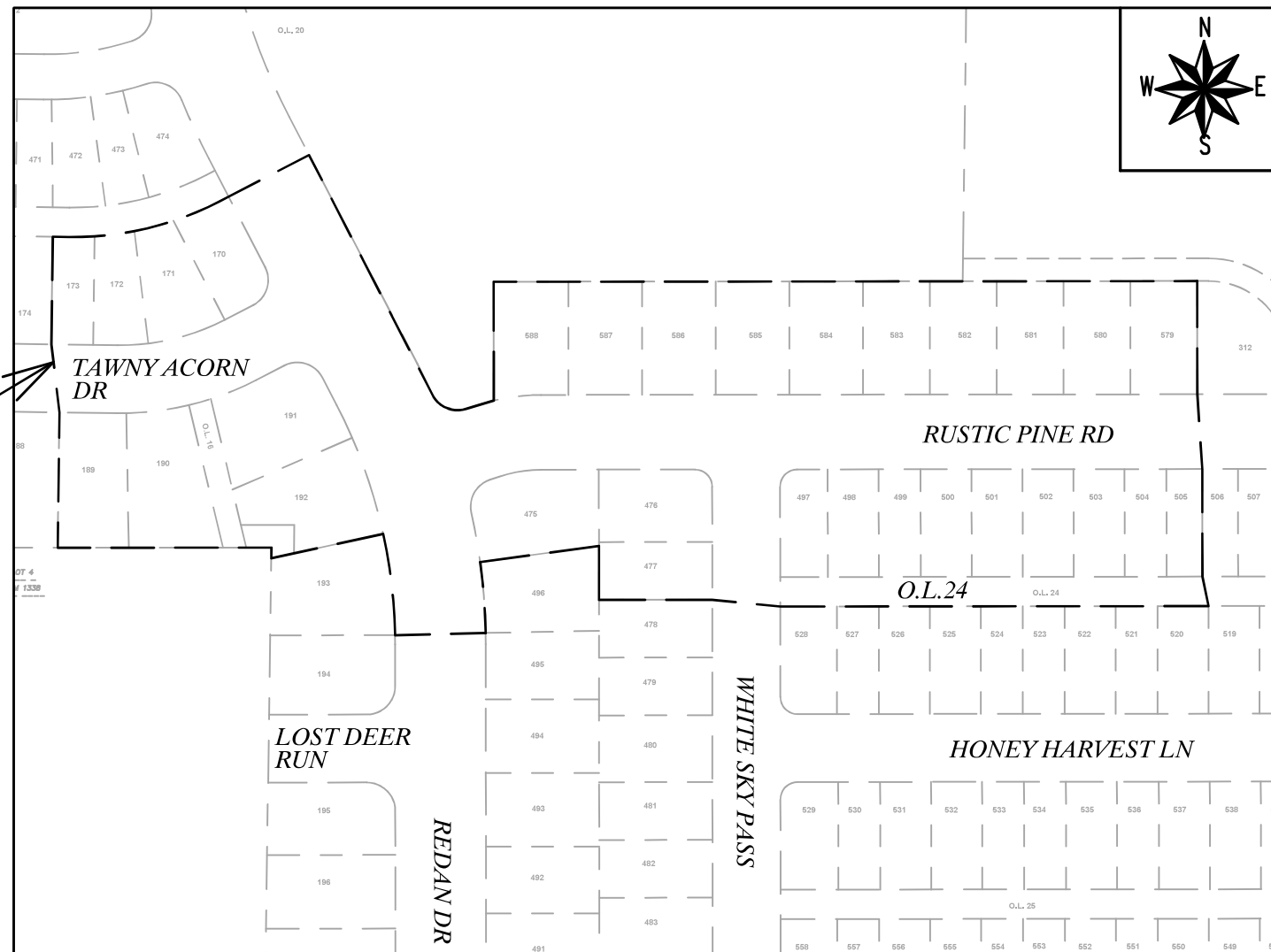
## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

## ACACIA RIDGE PHASE 8

CITY PROJECT NO. 14342  
CONTRACT NO. 9215



PHASE  
LIMITS

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: DECEMBER 6, 2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Apr 27, 2023

City Engineer

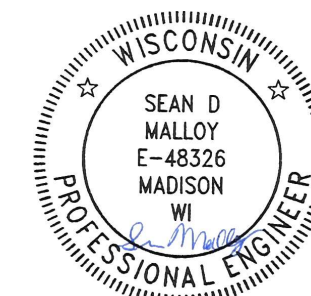
Date

STREET DESIGNED BY:



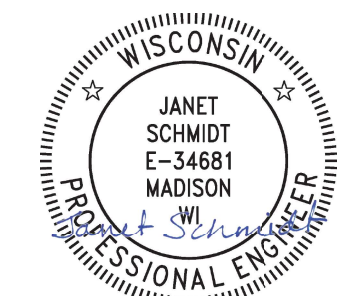
Apr 27, 2023

GEOMETRICS DESIGNED BY:



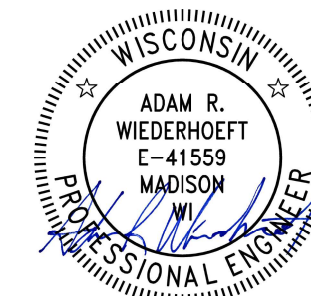
Apr 27, 2023

STORM SEWER DESIGNED BY:



Apr 27, 2023

WATER DESIGNED BY:



Apr 27, 2023

SANITARY SEWER DESIGNED BY:



Apr 27, 2023

PLOT SCALE: 1" = 1'

PLOT NAME: ---

REV. DATE: 2/21/2023 4:39 PM

ORIGINATOR: 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, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.

CONTACT THE PROJECT ENGINEER AND DESIGNER, FADI EL MUSA GONZALEZ, AT FELMUSAGONZALEZ@CITYOFMADISON.COM FOR CAD FILES AND ALIGNMENT DATA PRIOR TO STAKING.

ALL PAVEMENT IN THE RUSTIC PINE ROAD, WHITE SKY PASS, AND TAWNY ACORN DRIVE RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE REDAN DRIVE RIGHT-OF-WAY 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 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. THE CITY PROJECT ENGINEER IS FADI EL MUSA, EMAIL: FELMUSAGONZALEZ@CITYOFMADISON.COM

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 UNLESS OTHERWISE INDICATED ON THE PLANS.

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 LATEST EDITION.

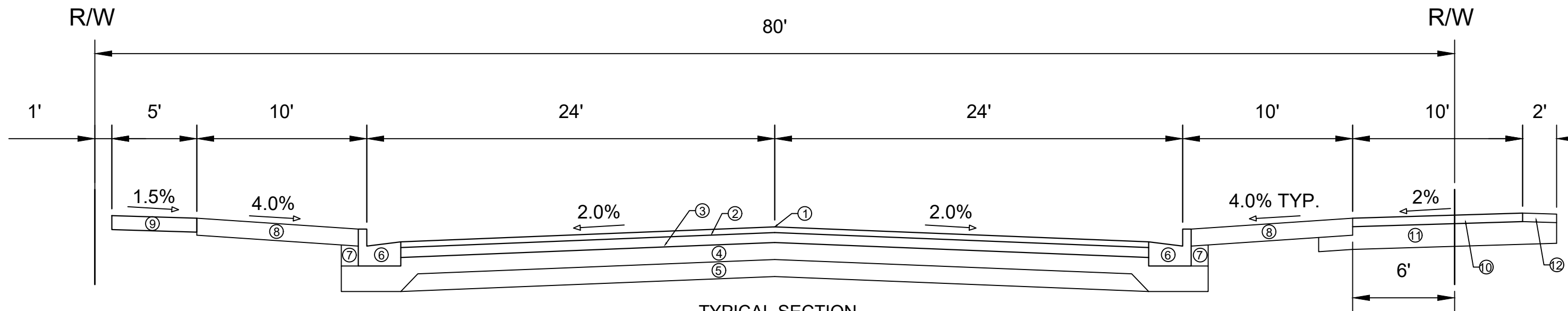
ALL PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY ARE BASED ON SURVEY DATA PROVIDED BY THE DEVELOPER OR ITS CONSULTANT. IN THE CASE THAT THE PROPOSED IMPROVEMENTS CAN NOT BE INSTALLED PER THESE PLANS OR THE CITY OF MADISON STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE COST OF EXTRA WORK DUE TO INACCURACIES OF THE SURVEY.

ALL UTILITY VERIFICATIONS AND ACCURACY OF THE DRAWINGS ARE THE RESPONSIBILITY OF THE DEVELOPER. ANY CONFLICTS THAT ARISE FROM MISSING OR ERRONEOUS INFORMATION WILL BE AT THE EXPENSE OF THE DEVELOPER. NO PRECAST STRUCTURES WILL BE APPROVED FOR STORM OR SANITARY SEWER UNTIL ALL POTENTIAL UTILITY CONFLICTS ARE RESOLVED.

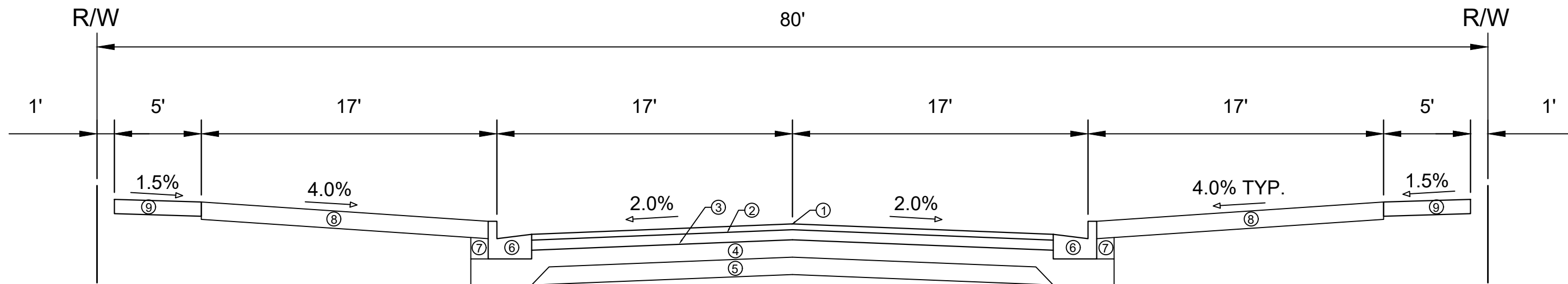
**CONVENTIONAL SIGNS**  
**FIELD VERIFY ALL UTILITY LOCATIONS**

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

STANDARD NOTES	14342	MADISON, WI	9215	D-1
			CONTRACT NO:	
				14342
				D-1
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14342				
D-1				



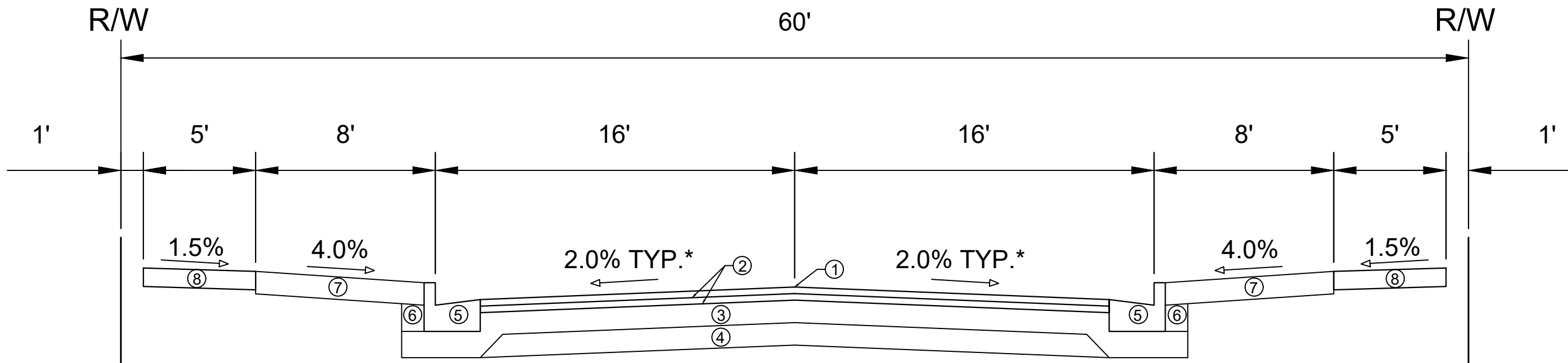
TYPICAL SECTION  
REDAN DRIVE  
STA 90+84 TO STA 91+65



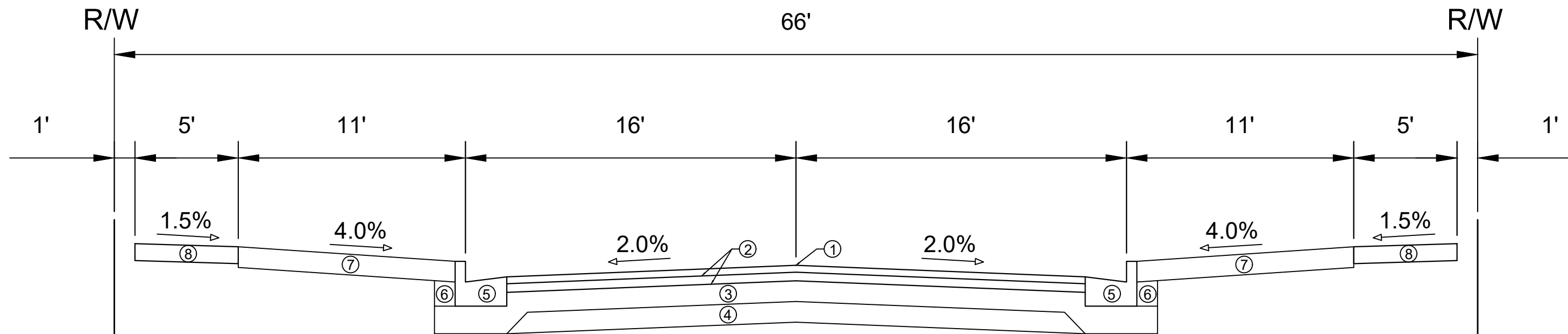
TYPICAL SECTION  
REDAN DRIVE  
STA 88+41 TO STA 90+84

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
- ③ 2.5" H.M.A. PAVEMENT- TYPE 3 LT 58-28 S
- ④ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- ⑤ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A'.
- ⑦ FILL
- ⑧ 6" TOPSOIL, SEED AND MATTING
- ⑨ 5" CONCRETE SIDEWALK
- ⑩ 3" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
- ⑪ 8" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- ⑫ 3" TOPSOIL, SEED, AND MATTING

14342	MADISON, WI	9215	14342	D-2
CONTRACT NO:				
14342				
MADISON, WI				
ACACIA RIDGE - PHASE 8				
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TYPICAL SECTIONS				
14342				
D-2				



TYPICAL SECTION  
WHITE SKY PASS  
TAWNY ACORN DRIVE



TYPICAL SECTION  
RUSTIC PINE ROAD

**SPECIAL NOTES:**

\*SEE P & X SHEETS FOR CROSS SLOPES

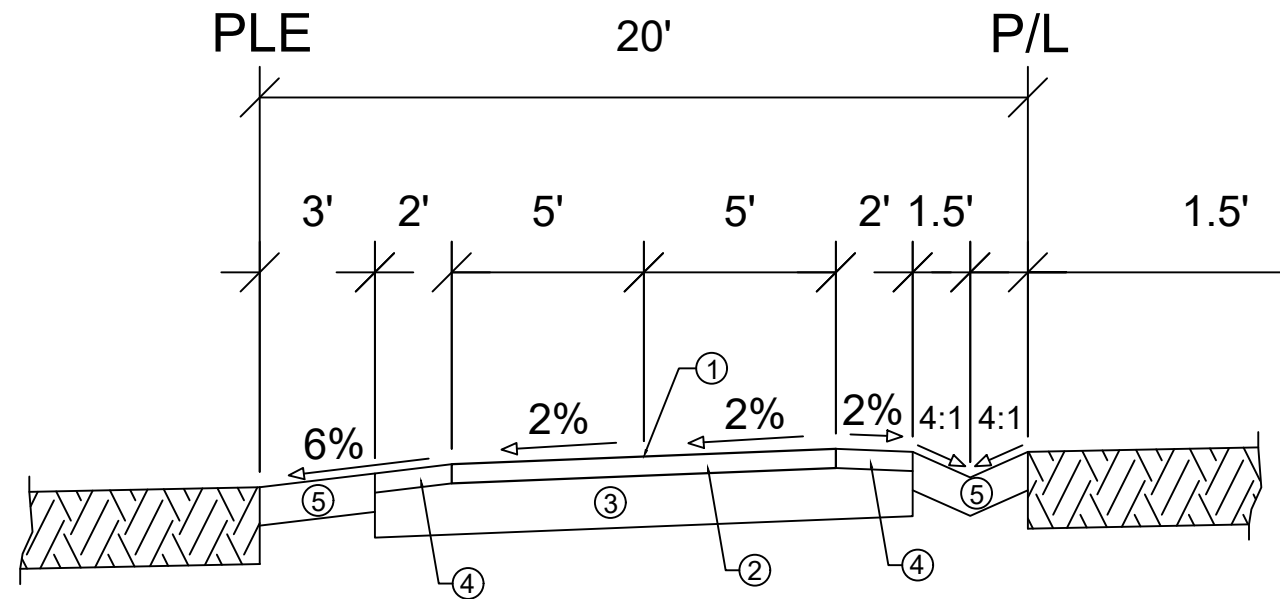
- ① POINT REFERRED TO ON PROFILE
- ② 1.75" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
- ③ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- ④ 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- ⑤ CONCRETE CURB AND GUTTER TYPE 'A'.
- ⑥ FILL
- ⑦ 6" TOPSOIL, SEED AND MATTING
- ⑧ 5" CONCRETE SIDEWALK

DATE	BY
4/17/2023	B.28
DESIGNED BY	ID
14342	
REVISION	
MARK	
SCALE	D-3

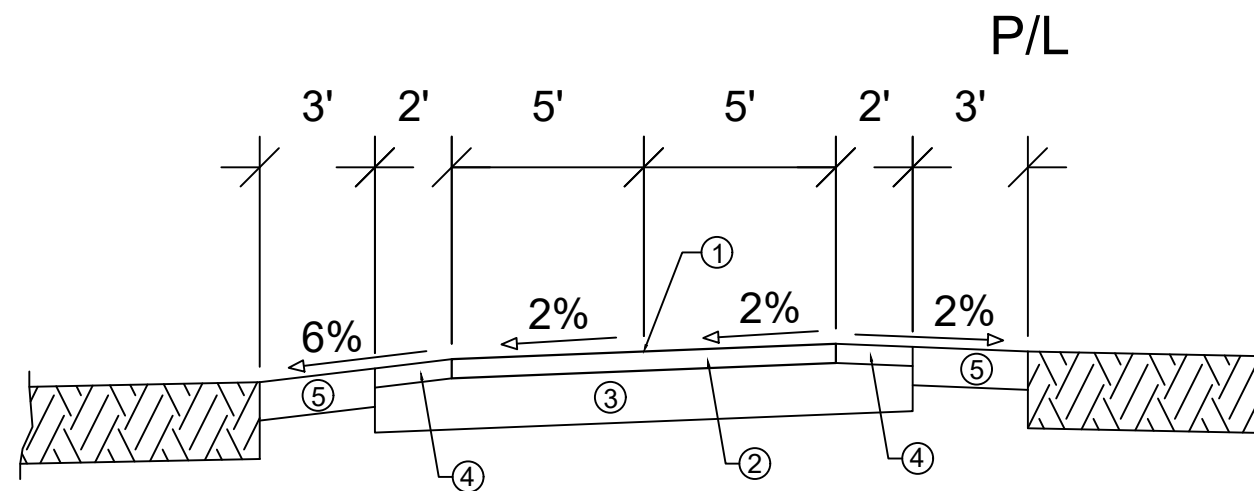
14342  
MADISON, WI  
9215  
CONTRACT NO:

TYPICAL SECTIONS  
ACACIA RIDGE - PHASE 8  
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TYPICAL SECTION  
 SHARED USE PATH  
 FROM STA 63+50 TO STA 65+52



TYPICAL SECTION  
 SHARED USE PATH  
 FROM STA 58+30 TO STA 63+50

- ① POINT REFERRED TO ON PROFILE
- ② 3" H.M.A. PAVEMENT- TYPE 4 LT 58-28 S
- ③ 8" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- ④ 3" TOPSOIL, SEED, AND MATTING
- ⑤ 6" TOPSOIL, SEED AND MATTING

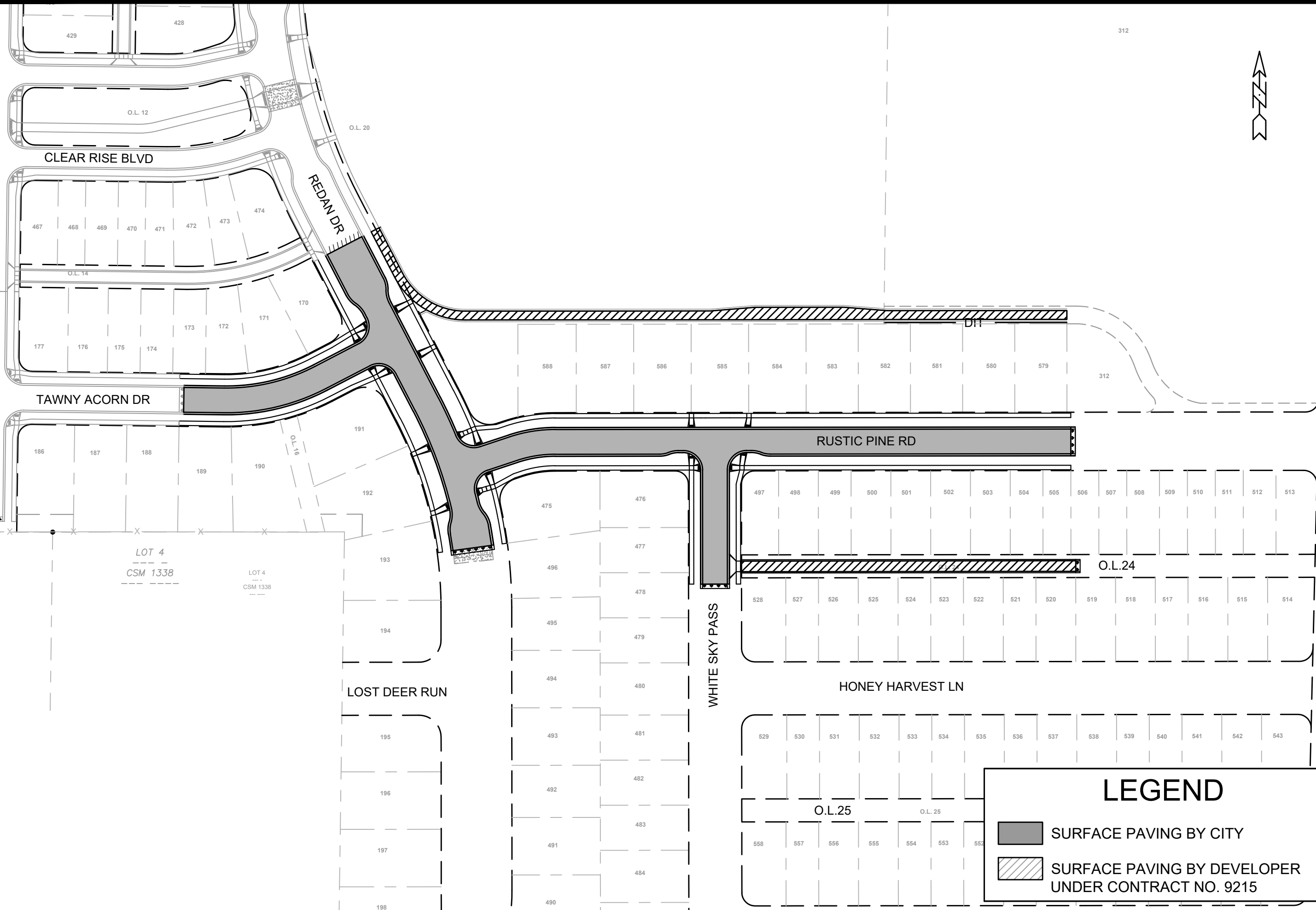
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14342  
 MADISON, WI  
 CONTRACT NO: 9215

TYPICAL SECTIONS  
 ACACIA RIDGE - PHASE 8  
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 D-4



### LEGEND

	SURFACE PAVING BY CITY
	SURFACE PAVING BY DEVELOPER UNDER CONTRACT NO. 9215

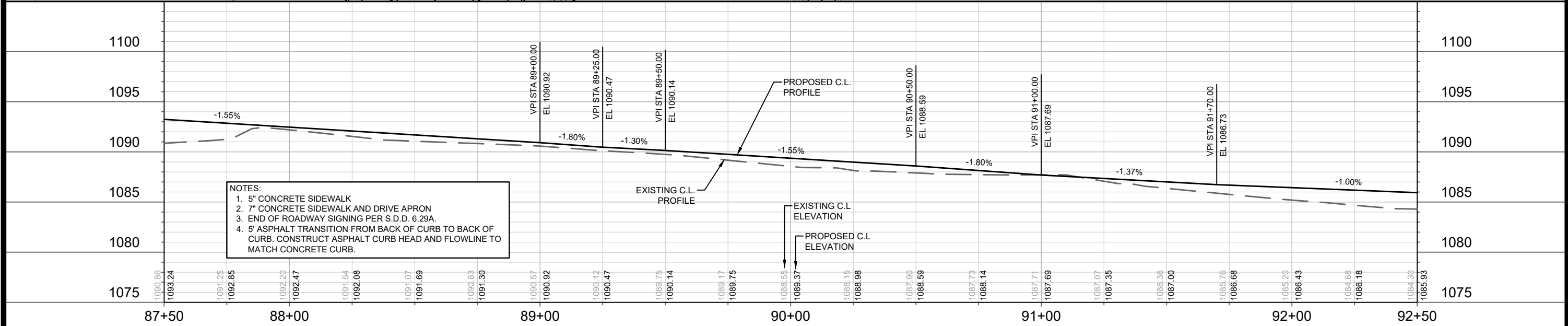
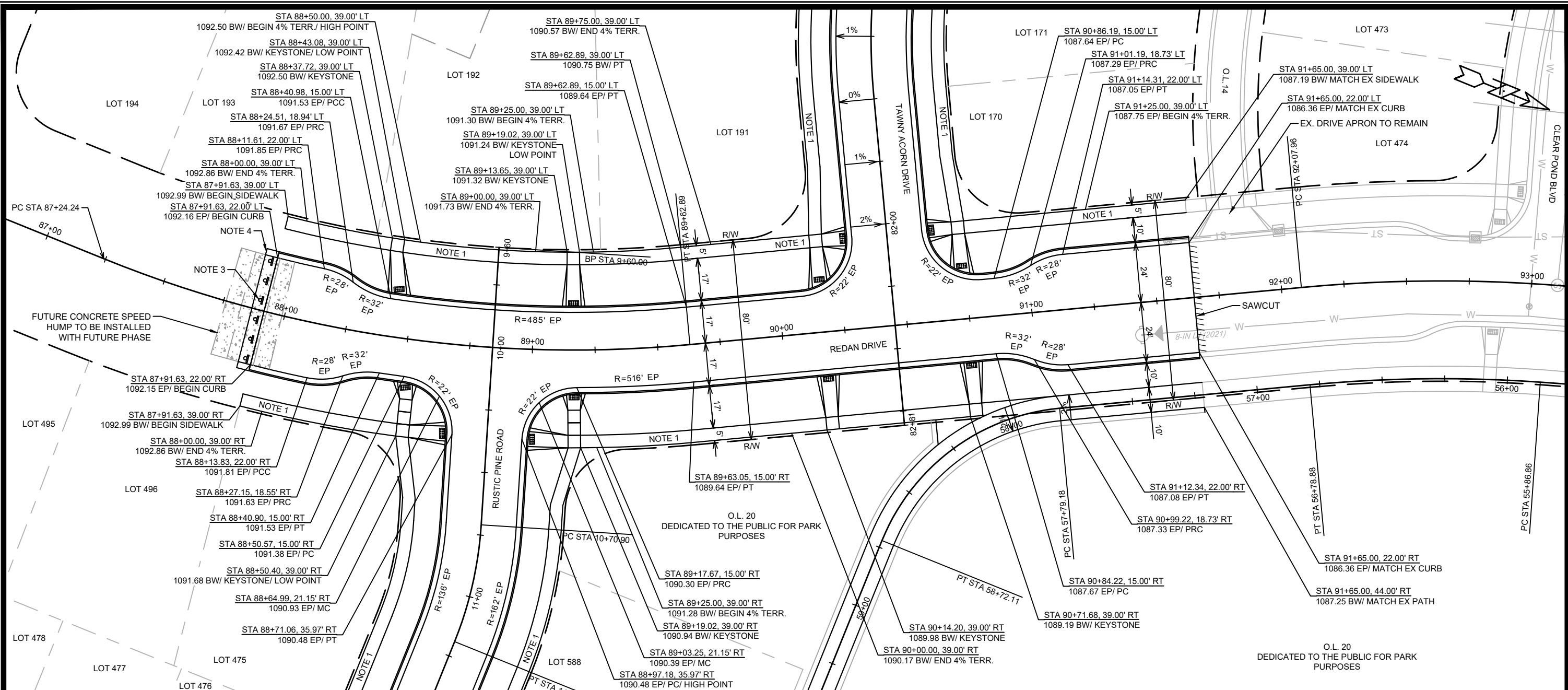
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**14342**  
**MADISON, WI**  
**CONTRACT NO: 9215**

**OVERVIEW PLAN**  
**ACACIA RIDGE - PHASE 8**  
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**14342**  
**O-1**



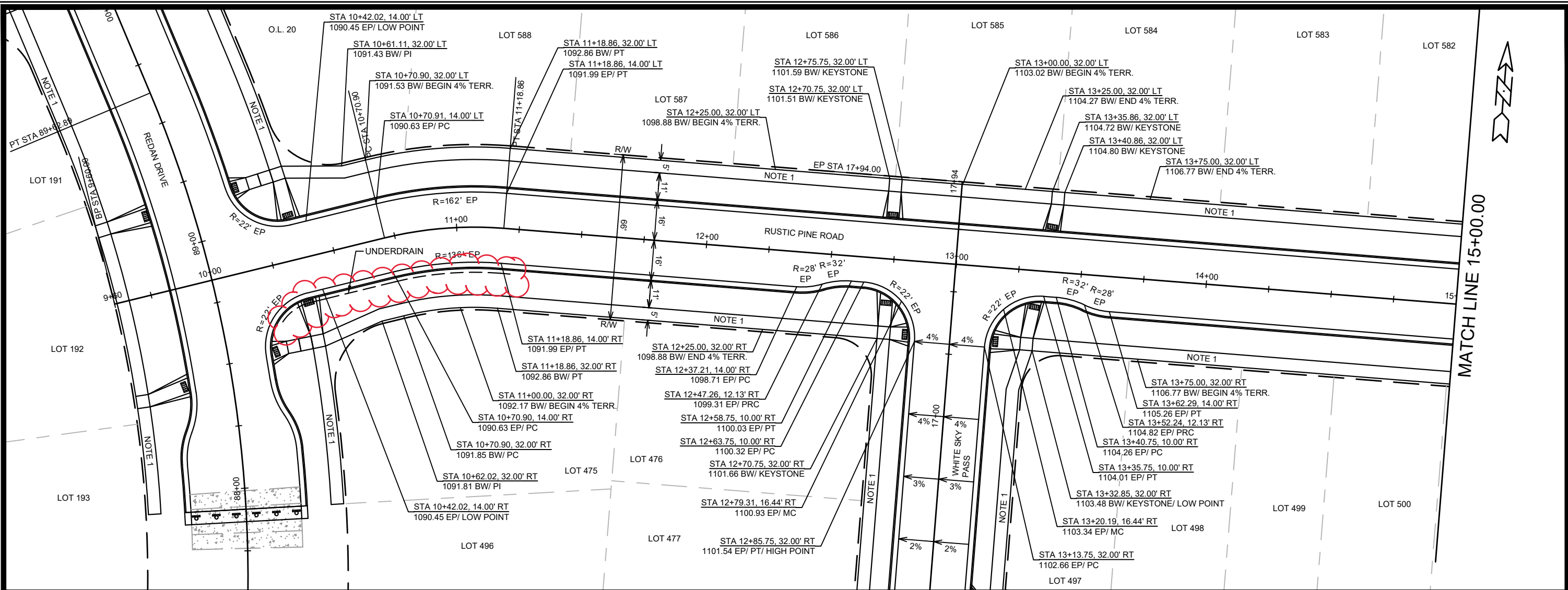
- NOTES:
- 5" CONCRETE SIDEWALK
  - 7" CONCRETE SIDEWALK AND DRIVE APRON
  - END OF ROADWAY SIGNING PER S.D.D. 6.29A.
  - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.

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DESIGNED BY	SCALE
14342	14342

14342  
 MADISON, WI  
 CONTRACT NO: 9215

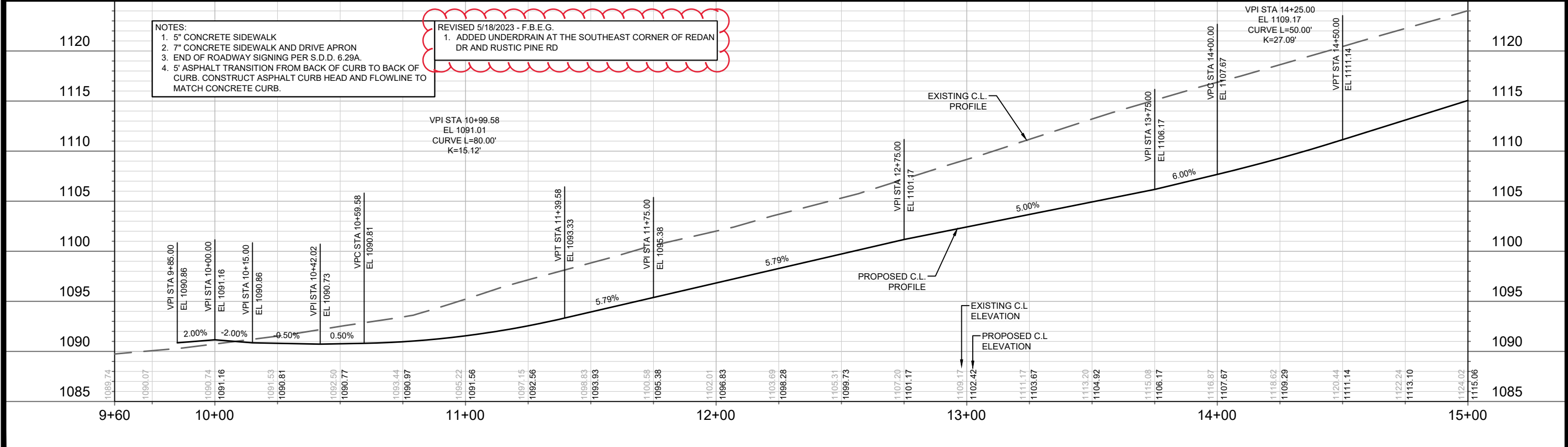
PLAN & PROFILE - REDAN DRIVE  
 ACACIA RIDGE - PHASE 8  
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- NOTES:
- 5" CONCRETE SIDEWALK
  - 7" CONCRETE SIDEWALK AND DRIVE APRON
  - END OF ROADWAY SIGNING PER S.D.D. 6.29A.
  - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.

REVISED 5/18/2023 - F.B.E.G.  
 1. ADDED UNDERDRAIN AT THE SOUTHEAST CORNER OF REDAN DR AND RUSTIC PINE RD



DATE	BY
REVISION	SCALE: #####
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14342	14342

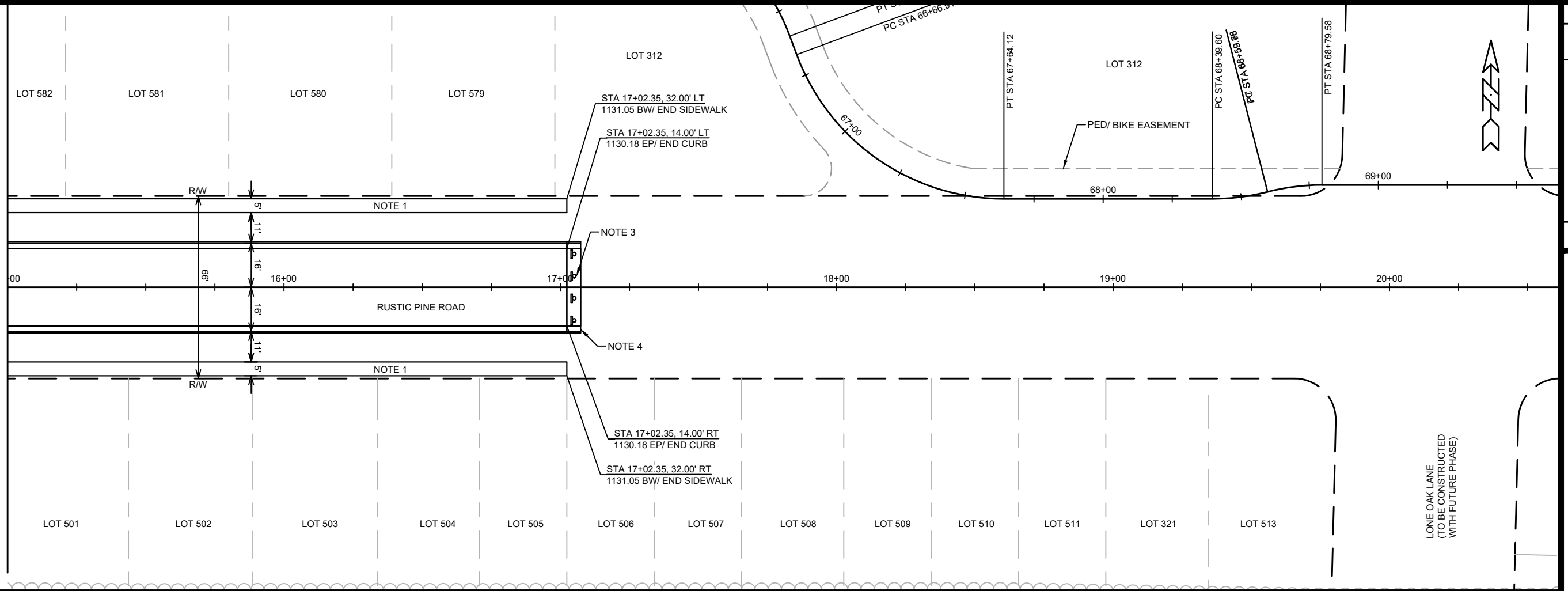
14342  
 MADISON, WI  
 CONTRACT NO: 9215

PLAN & PROFILE - RUSTIC PINE ROAD  
 ACACIA RIDGE - PHASE 8  
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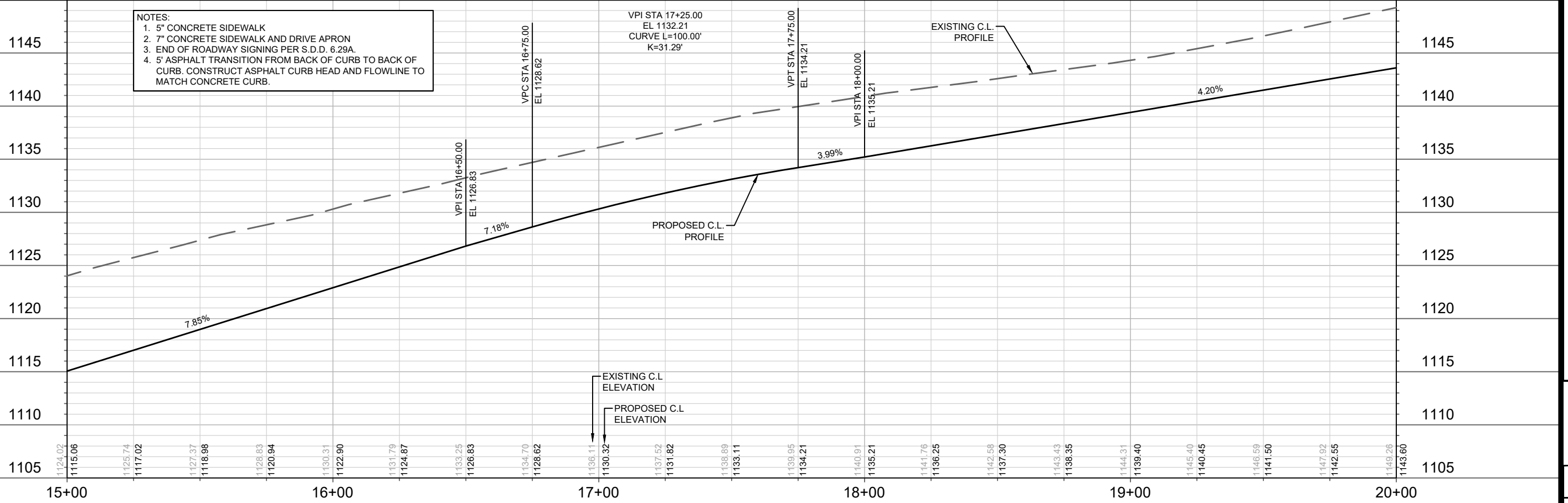




MATCH LINE 15+00.00



- NOTES:
- 1. 5" CONCRETE SIDEWALK
  - 2. 7" CONCRETE SIDEWALK AND DRIVE APRON
  - 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.



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14342

MADISON, WI

9215

CONTRACT NO:

PLAN & PROFILE - RUSTIC PINE ROAD

ACACIA RIDGE - PHASE 8

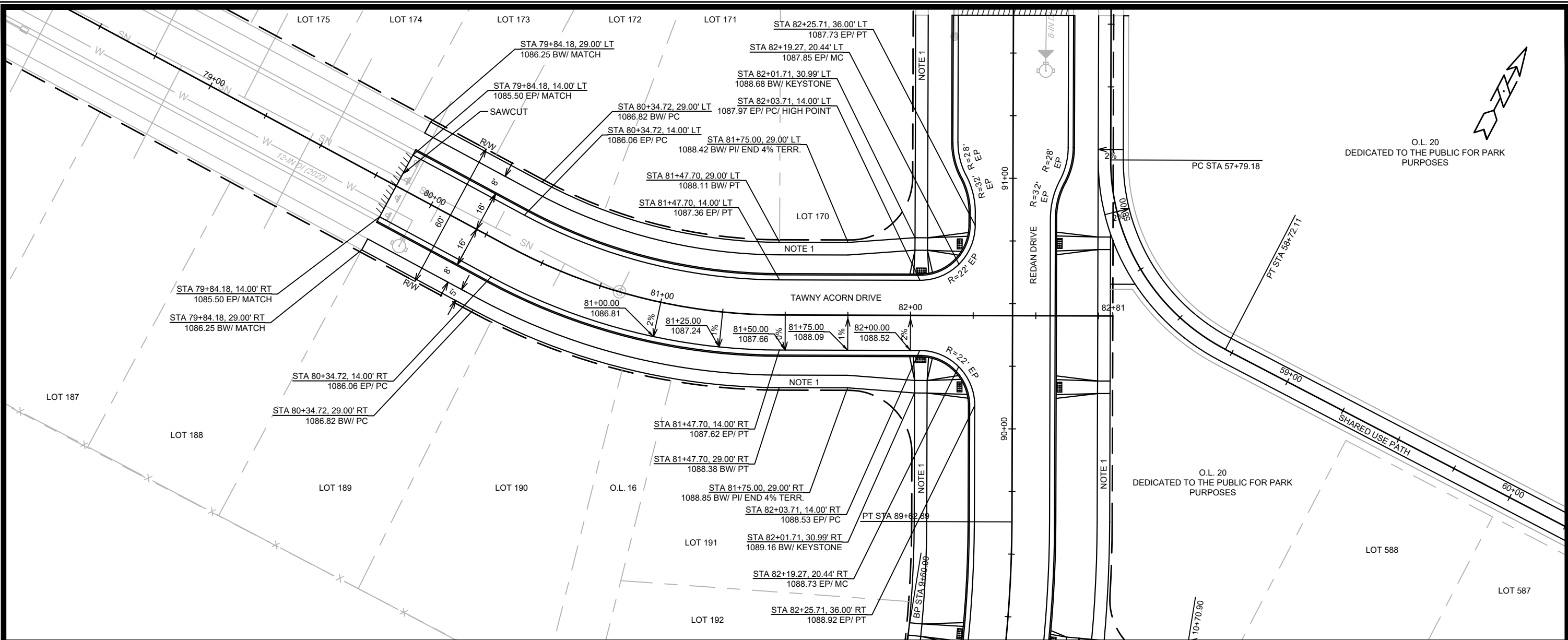
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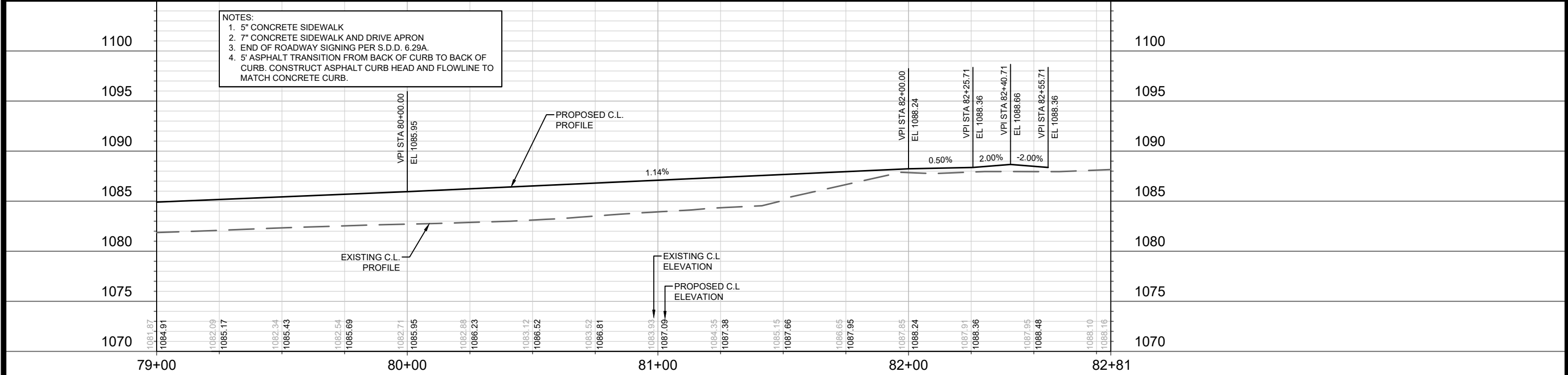
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P-3





- NOTES:
1. 5" CONCRETE SIDEWALK
  2. 7" CONCRETE SIDEWALK AND DRIVE APRON
  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.



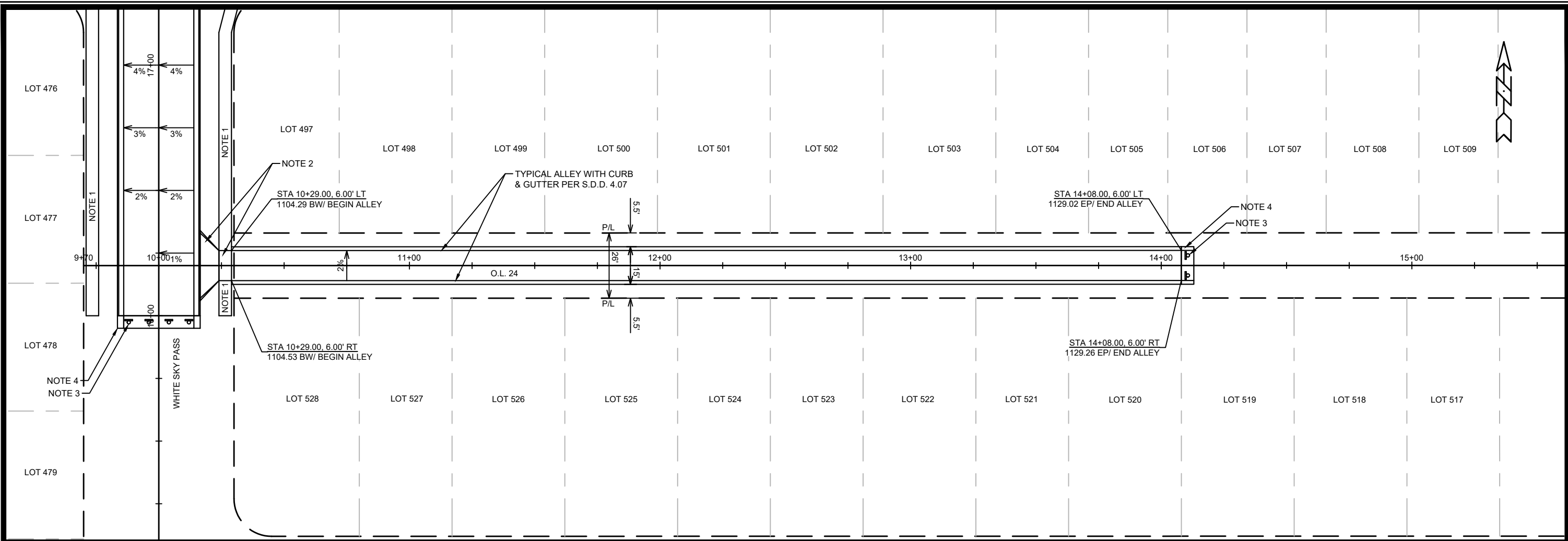
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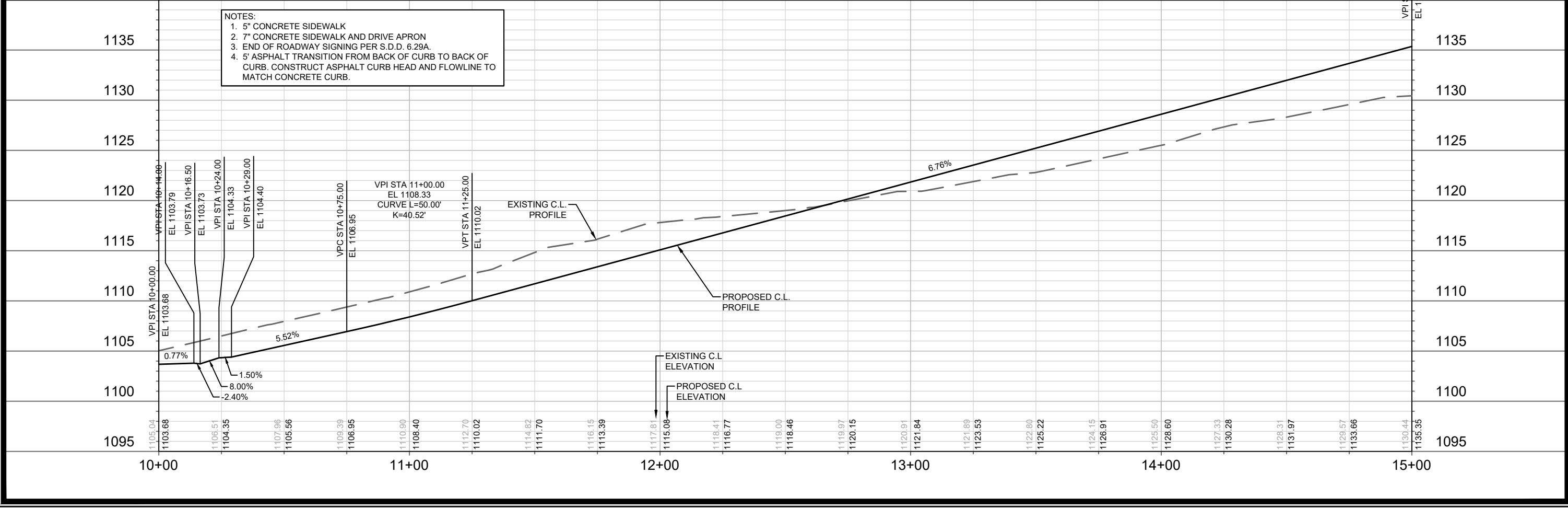
14342  
 MADISON, WI  
 CONTRACT NO: 9215

PLAN & PROFILE - TAWNY ACORN DRIVE  
 ACACIA RIDGE - PHASE 8  
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14342  
 P-5



- NOTES:
- 5" CONCRETE SIDEWALK
  - 7" CONCRETE SIDEWALK AND DRIVE APRON
  - END OF ROADWAY SIGNING PER S.D.D. 6.29A.
  - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.



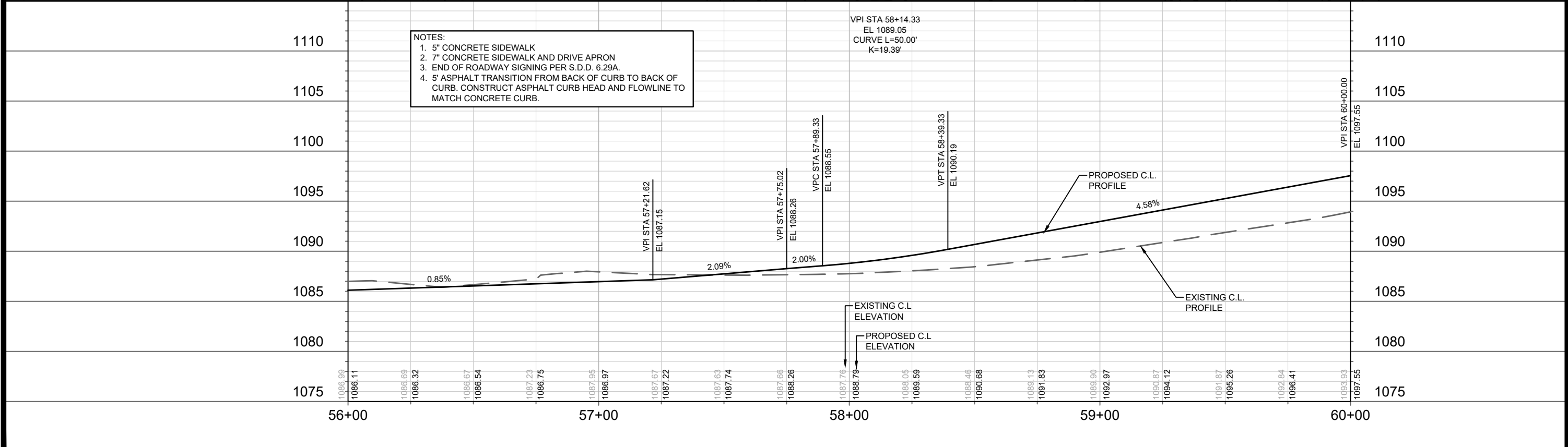
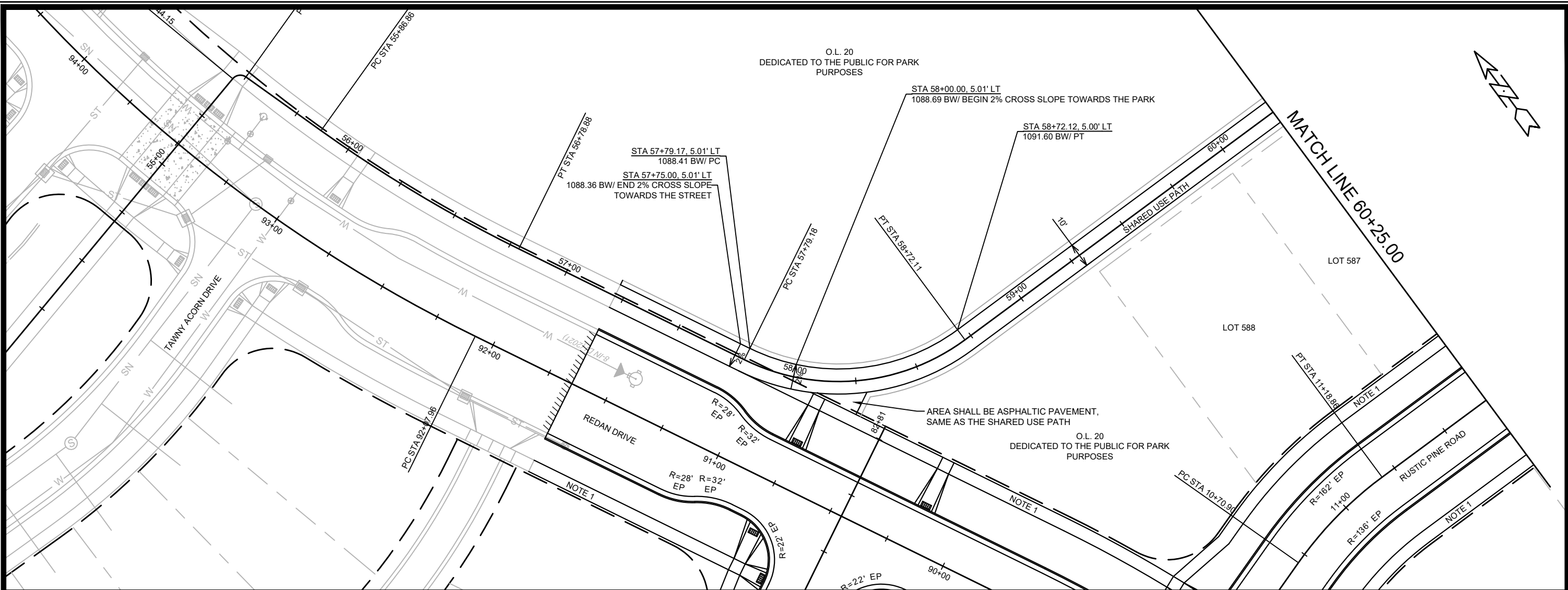
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P-6

14342  
MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - O.L.24  
ACACIA RIDGE - PHASE 8  
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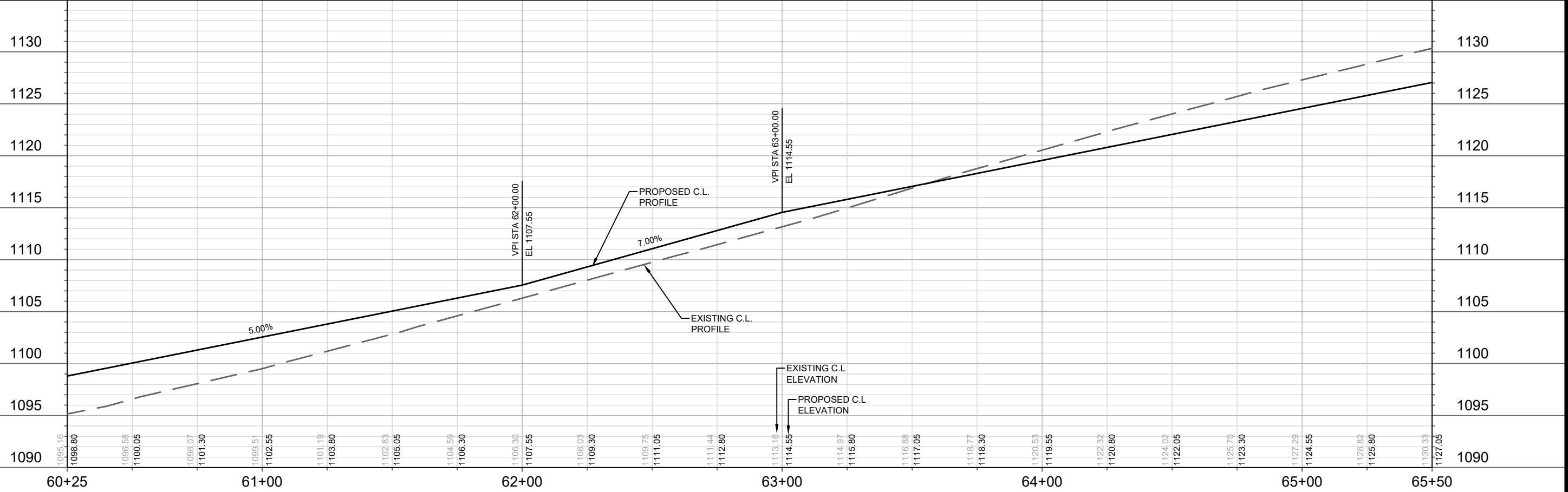
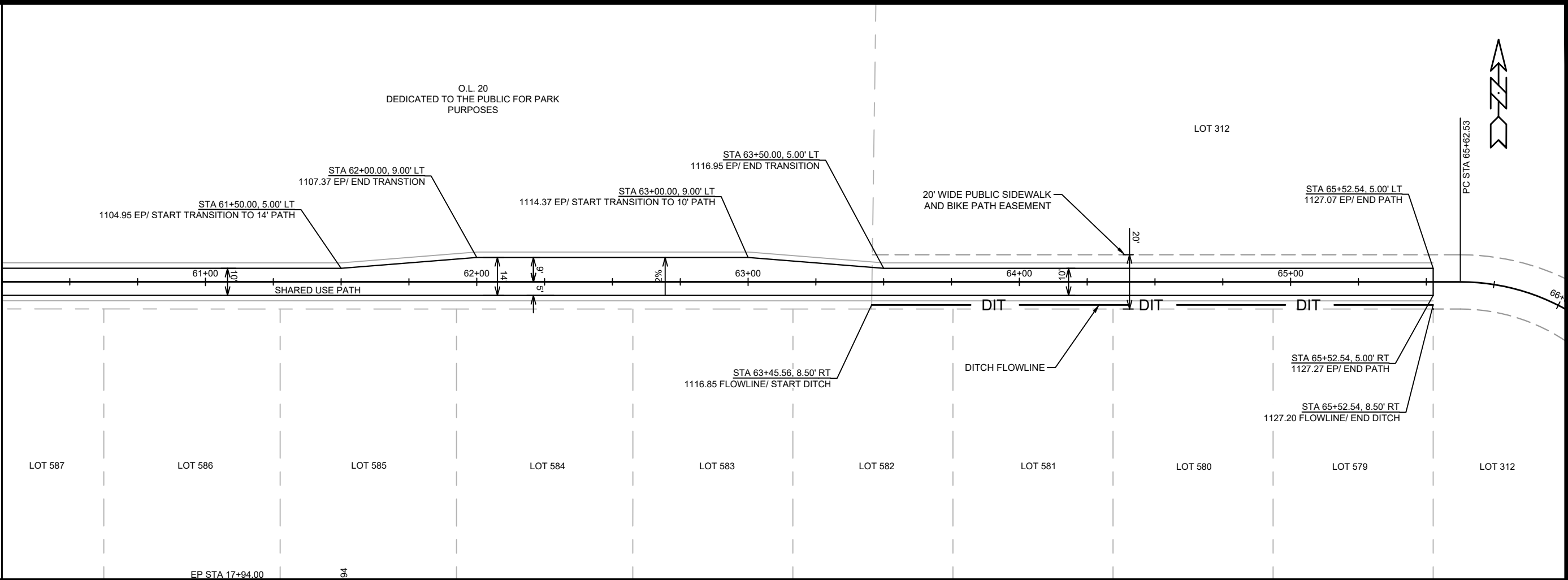
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P-6



- NOTES:
- 5" CONCRETE SIDEWALK
  - 7" CONCRETE SIDEWALK AND DRIVE APRON
  - END OF ROADWAY SIGNING PER S.D.D. 6.29A.
  - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.

14342	MADISON, WI	9215	CONTRACT NO:	14342
<b>PLAN &amp; PROFILE - BIKE PATH</b> <b>ACACIA RIDGE - PHASE 8</b>				
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14342				P-7

MATCH LINE 60+25.00

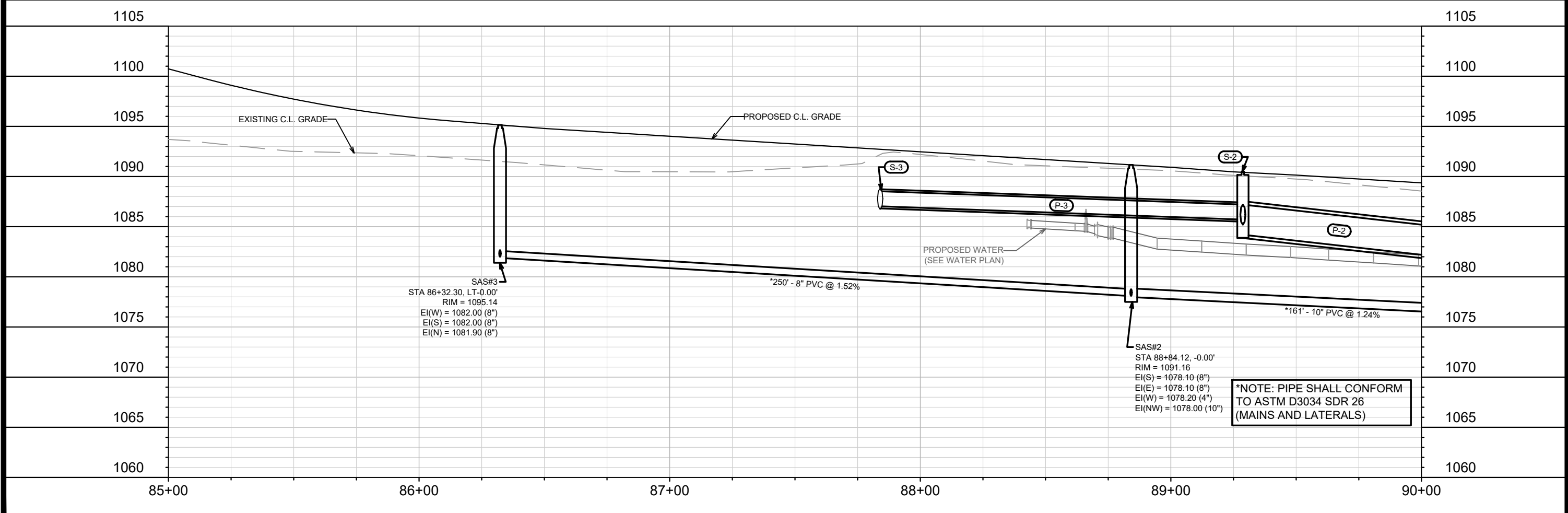
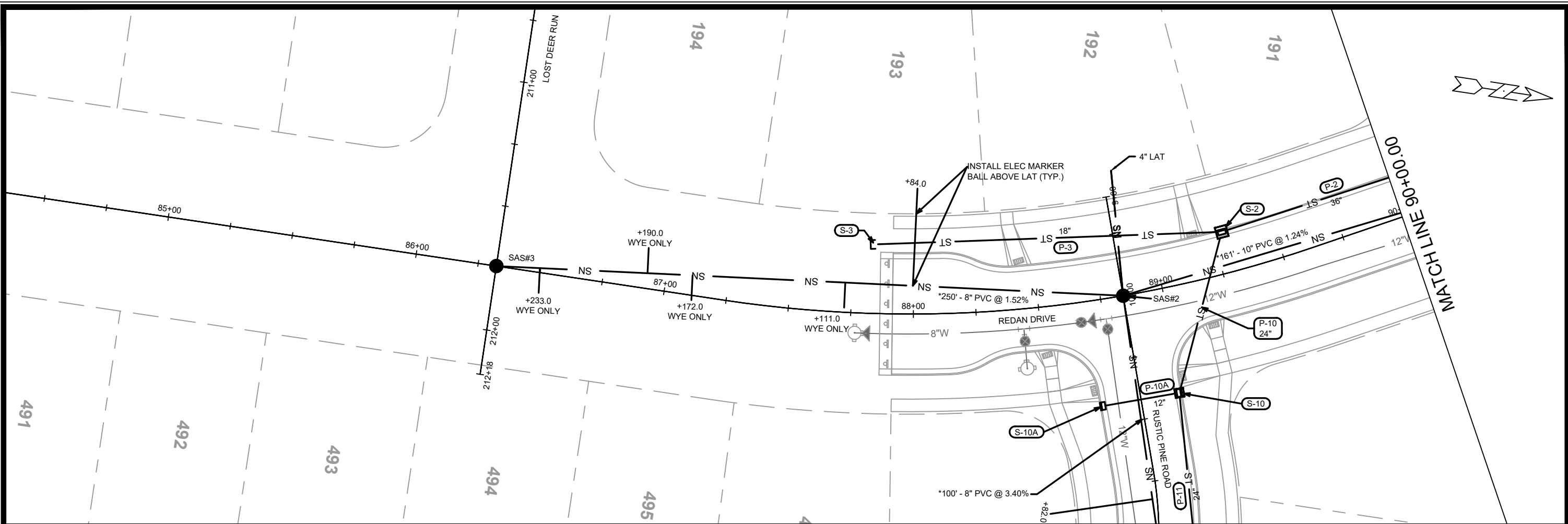


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14342	4/17/2023 2:13 PM	14342	P-8

14342  
MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - BIKE PATH  
ACACIA RIDGE - PHASE 8  
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P-8



**\*NOTE: PIPE SHALL CONFORM TO ASTM D3034 SDR 26 (MAINS AND LATERALS)**

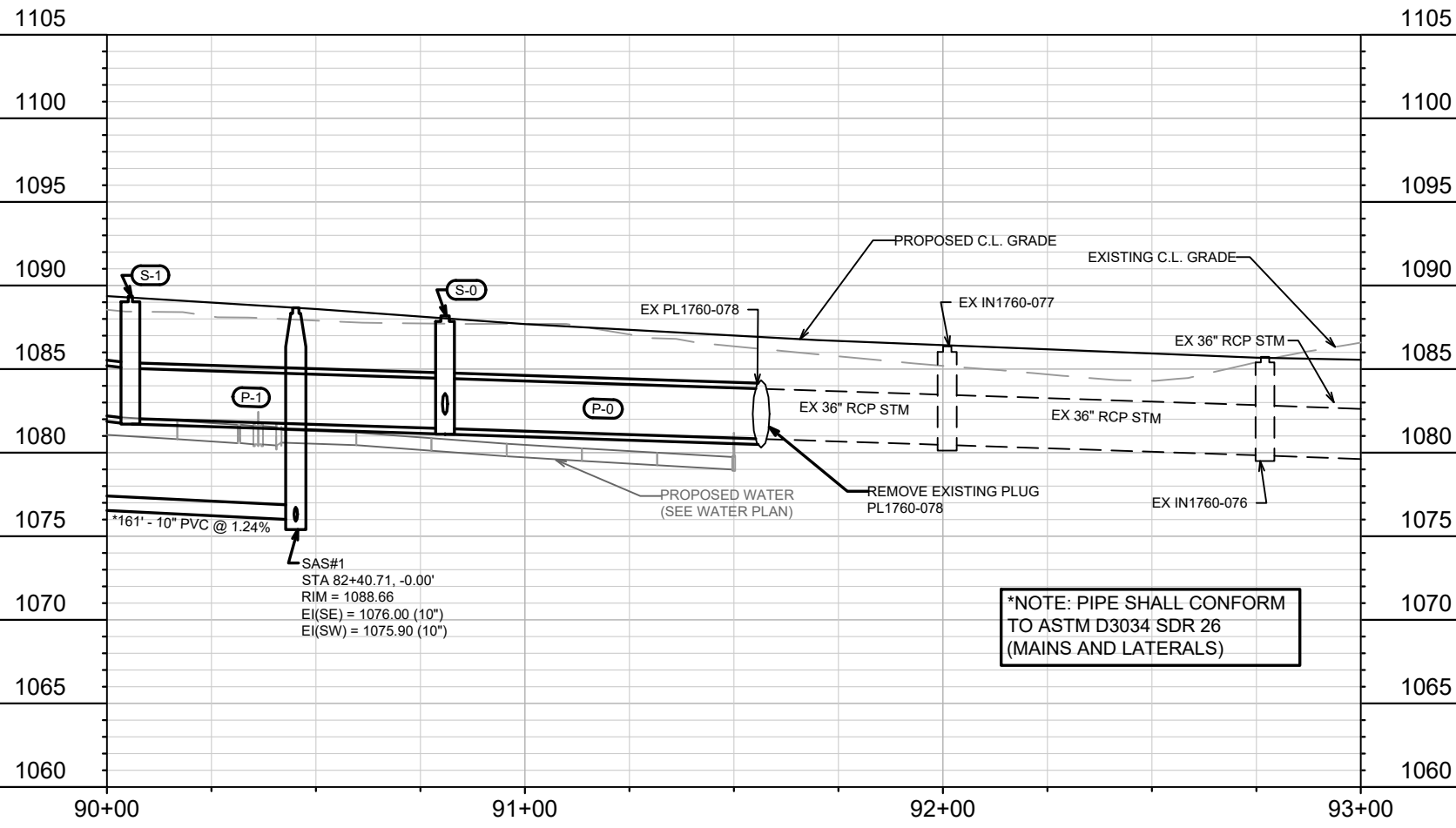
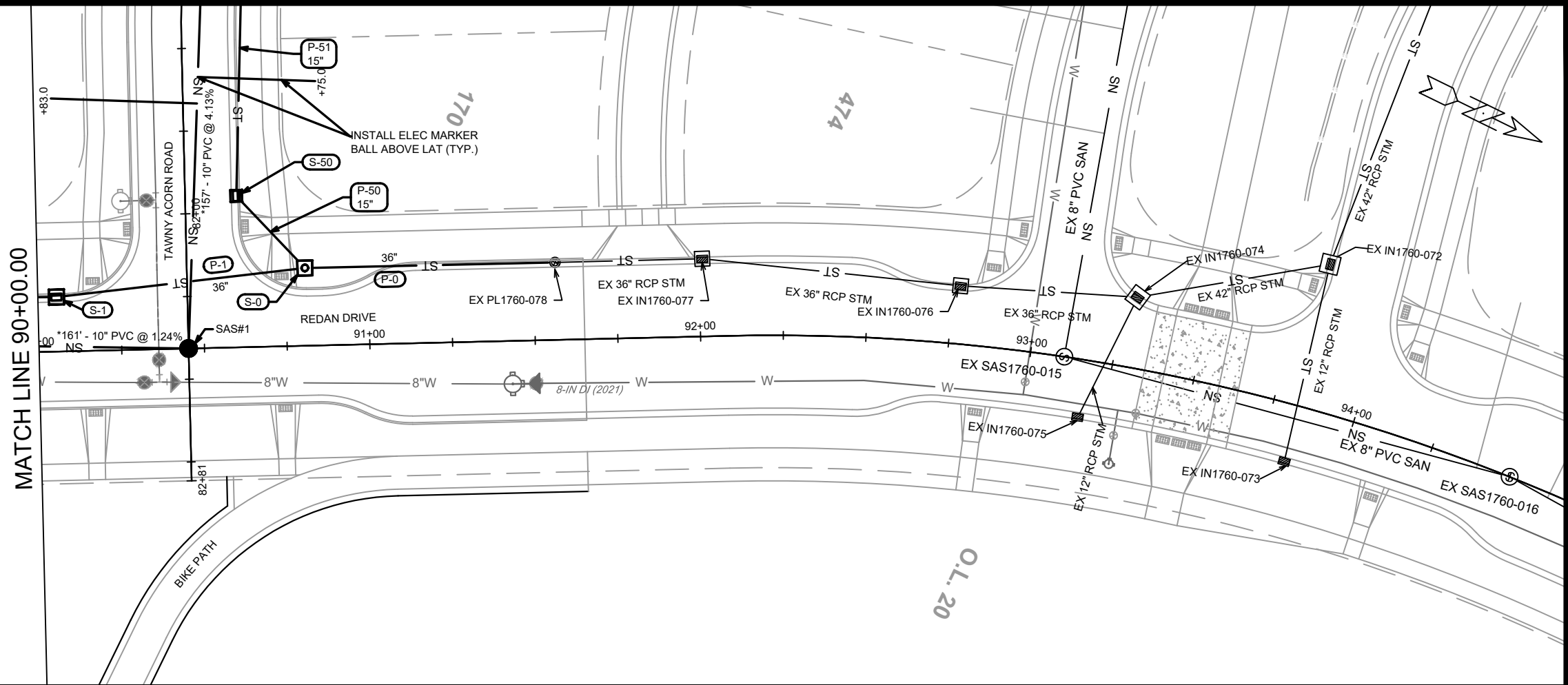
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14342  
 MADISON, WI  
 CONTRACT NO: 9215

PLAN & PROFILE - REDAN DRIVE  
 ACACIA RIDGE - PHASE 8  
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14342  
 U-1



MATCH LINE 90+00.00

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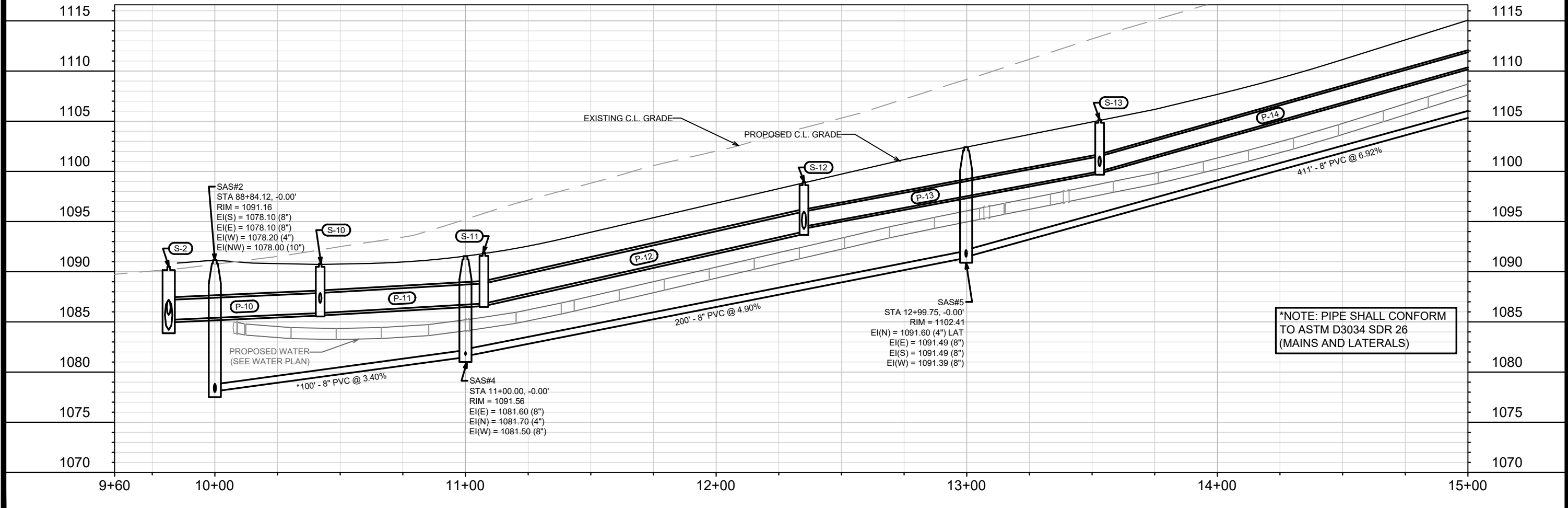
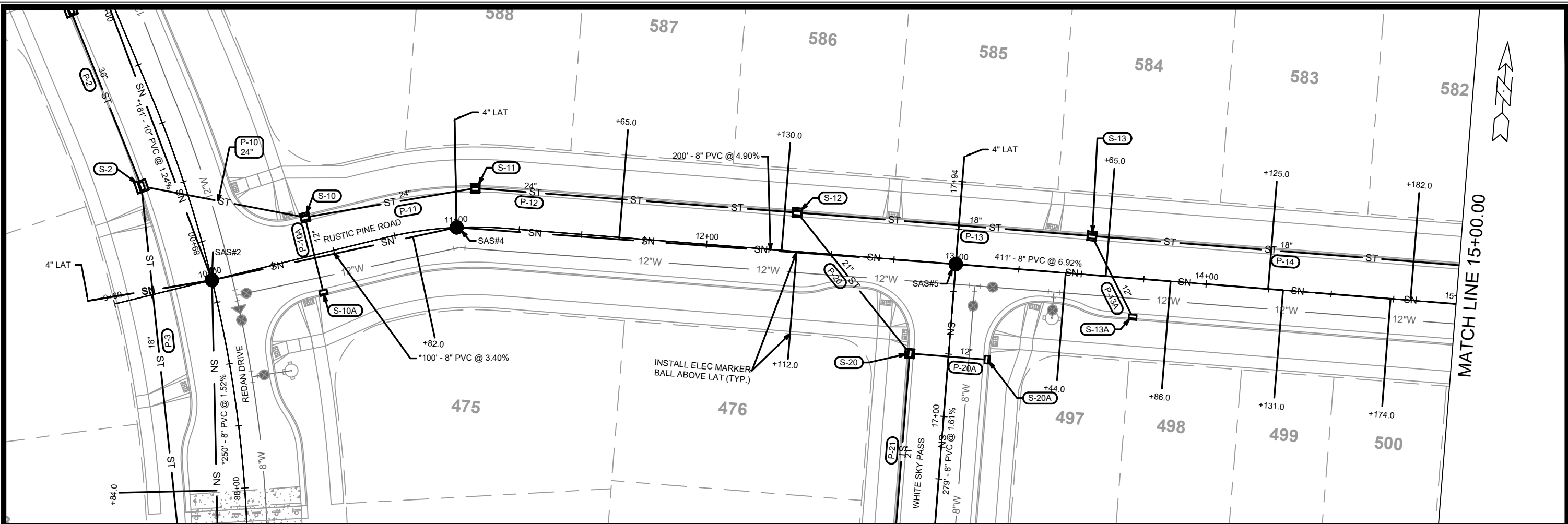
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MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - REDAN DRIVE  
ACACIA RIDGE - PHASE 8  
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14342  
U-2





**\*NOTE: PIPE SHALL CONFORM TO ASTM D3034 SDR 26 (MAINS AND LATERALS)**

MARK	REVISION	DATE	BY

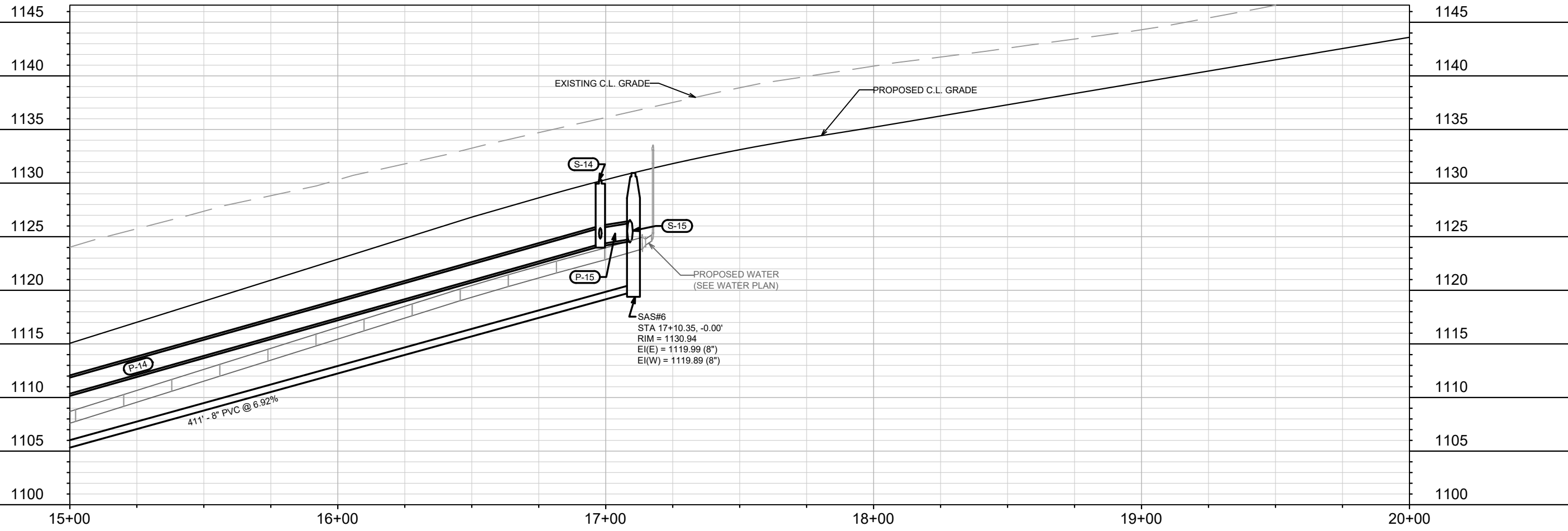
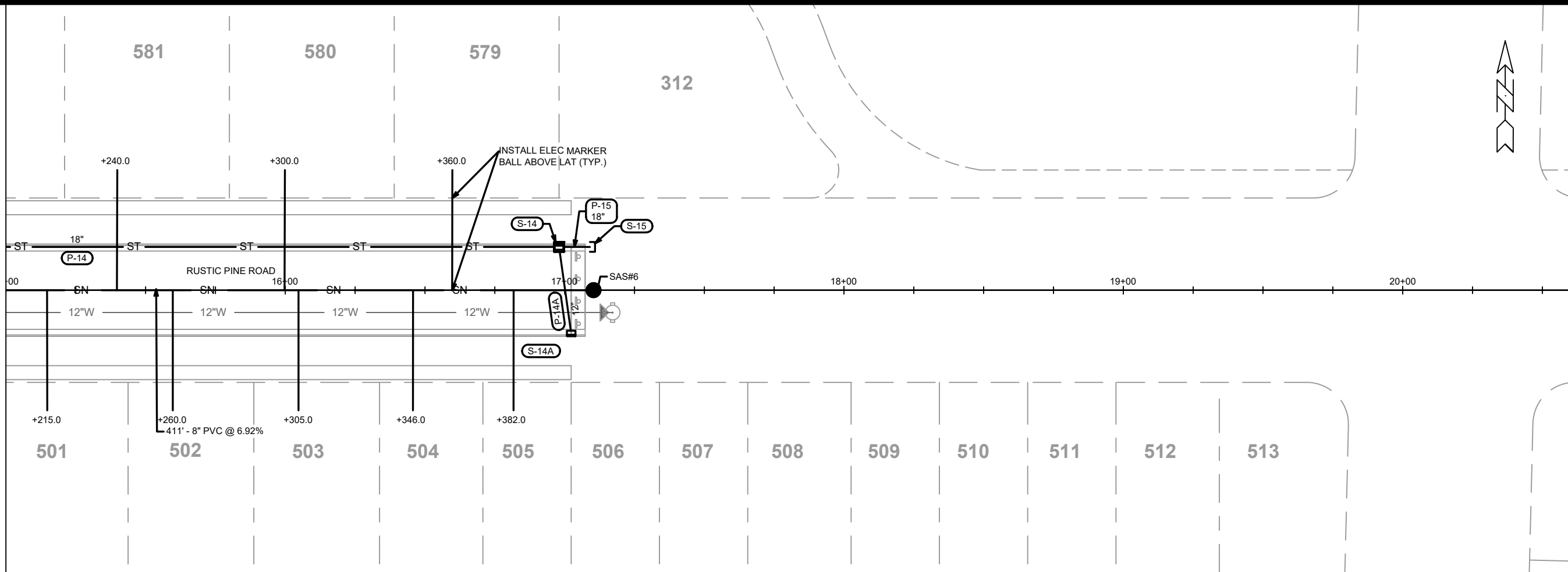
14342  
MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - RUSTIC PINE ROAD  
ACACIA RIDGE - PHASE 8  
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14342  
U-3

MATCH LINE 15+00.00



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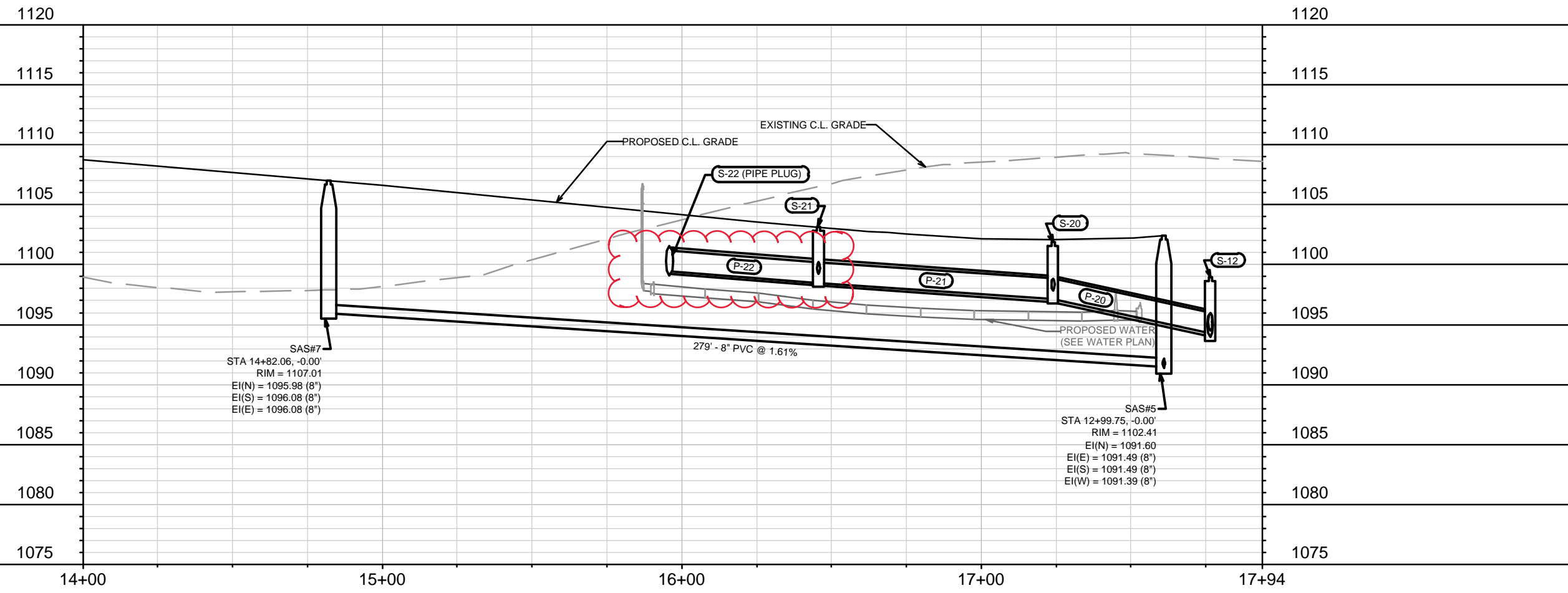
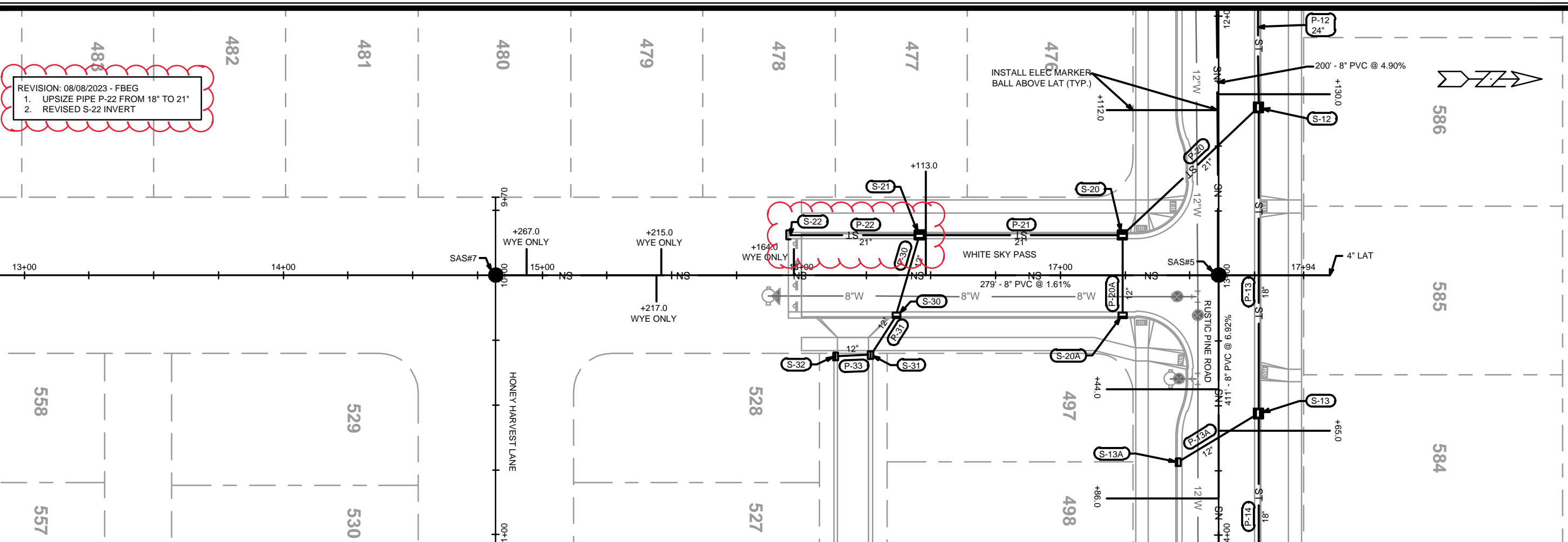
14342  
MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - RUSTIC PINE ROAD  
ACACIA RIDGE - PHASE 8  
M:\DESIGN\Projects\14342\CAD\sewers\14342SWR-PipeNetwork.dwg



14342  
U-4

REVISION: 08/08/2023 - FBEG  
 1. UPSIZE PIPE P-22 FROM 18" TO 21"  
 2. REVISED S-22 INVERT



BIKE PATH

14342

MADISON, WI

CONTRACT NO: 9215

PLAN & PROFILE - WHITE SKY PASS

ACACIA RIDGE - PHASE 8

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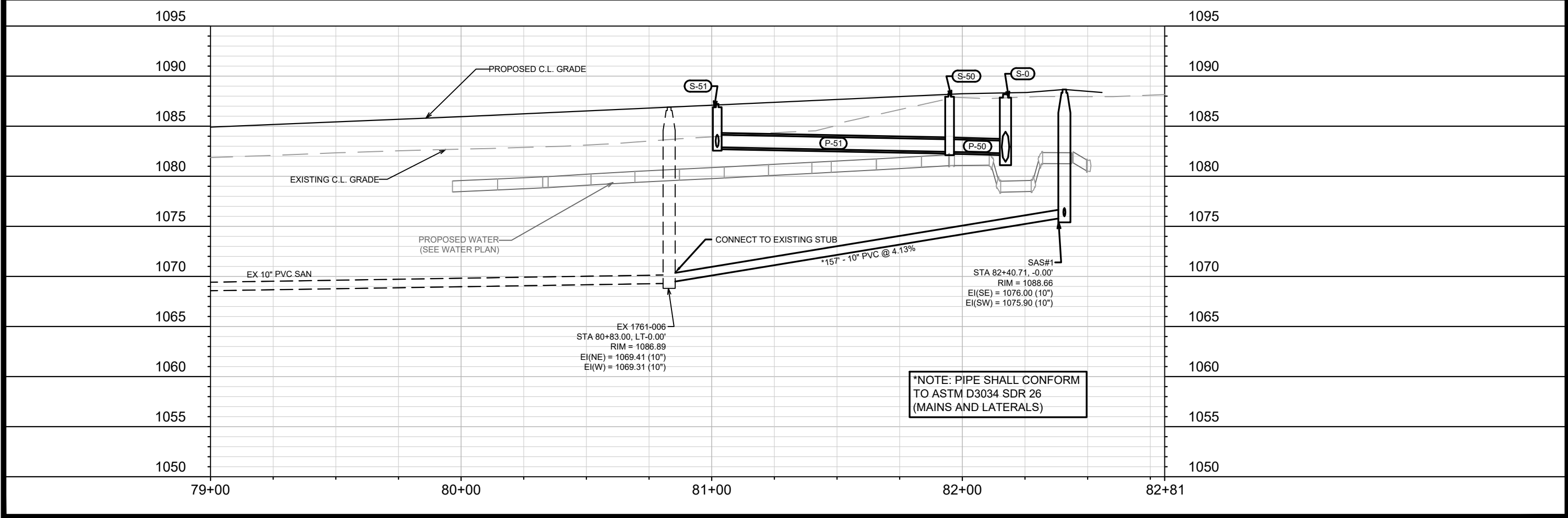
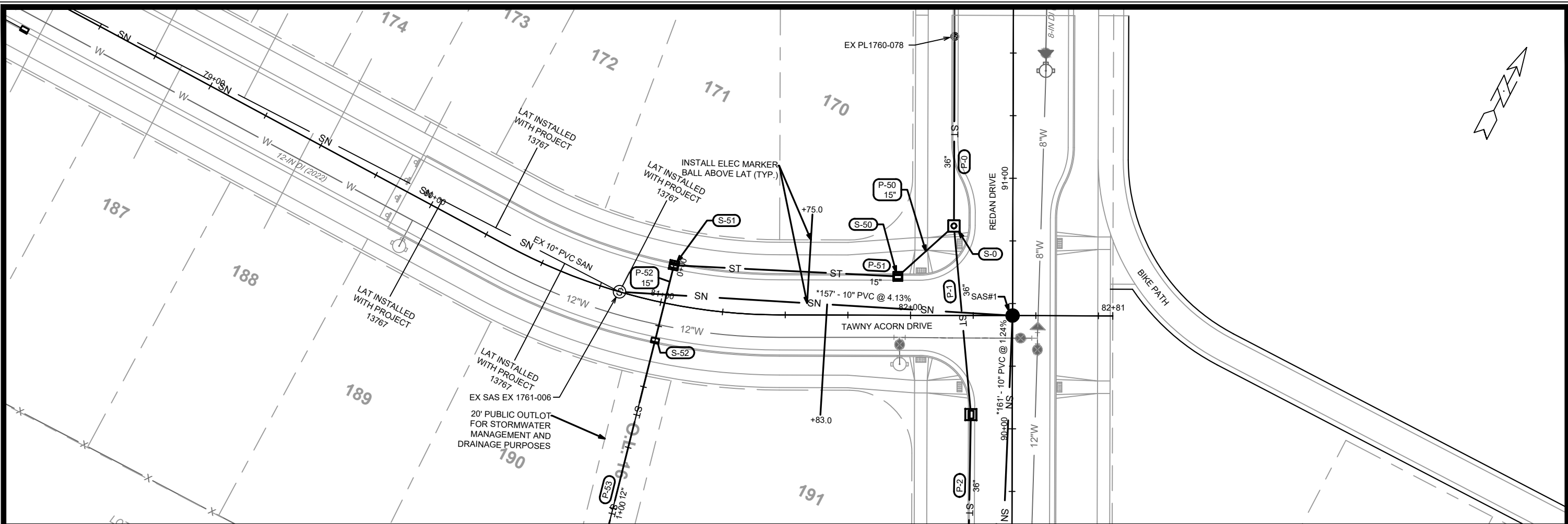
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U-5

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Design By: TAC Date: 08/08/2023 8:50 AM

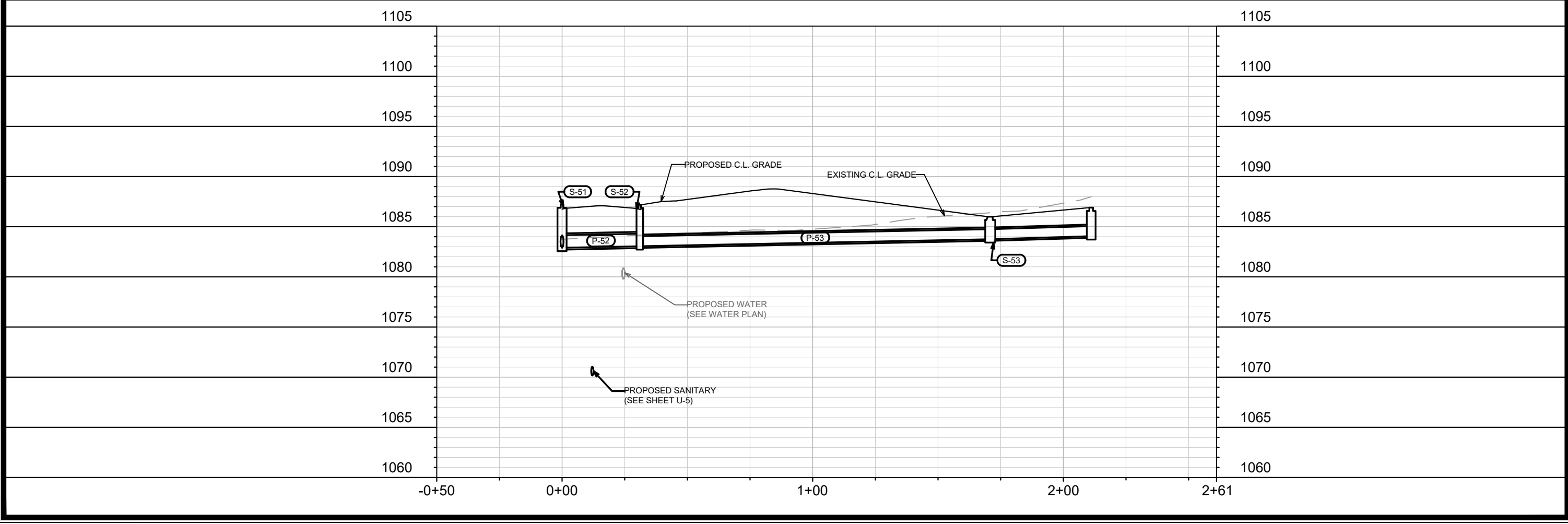
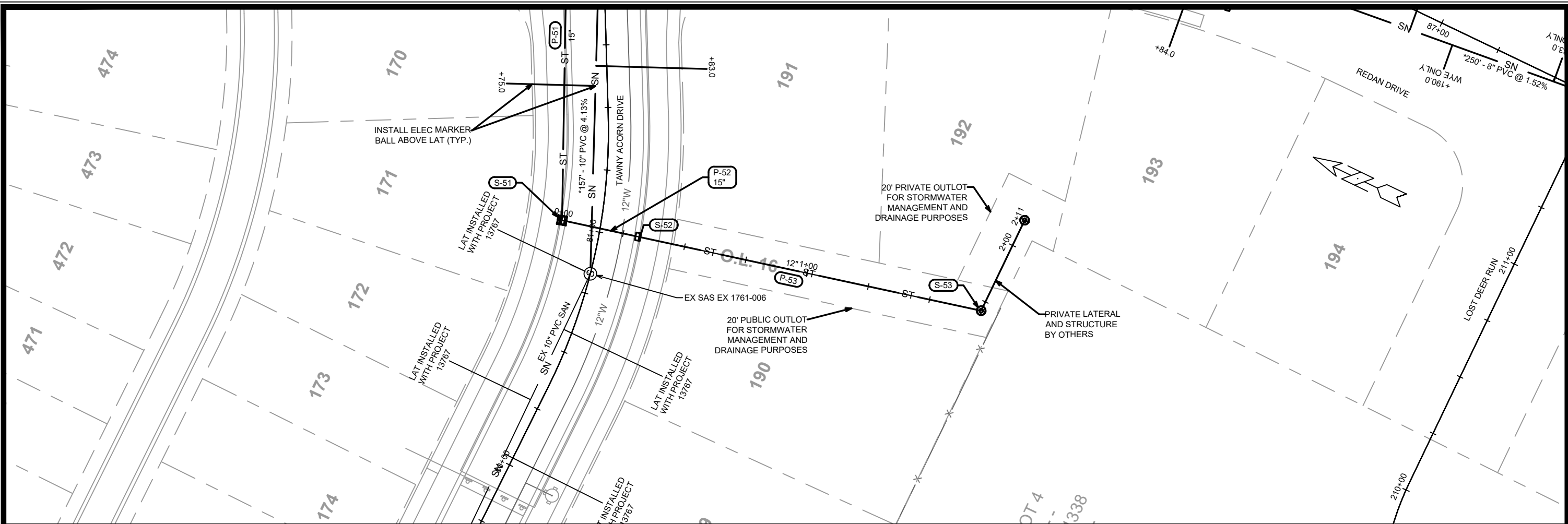


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14342  
 MADISON, WI  
 CONTRACT NO: 9215

PLAN & PROFILE - TAWNY ACORN DRIVE  
 ACACIA RIDGE - PHASE 8  
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14342  
 U-6

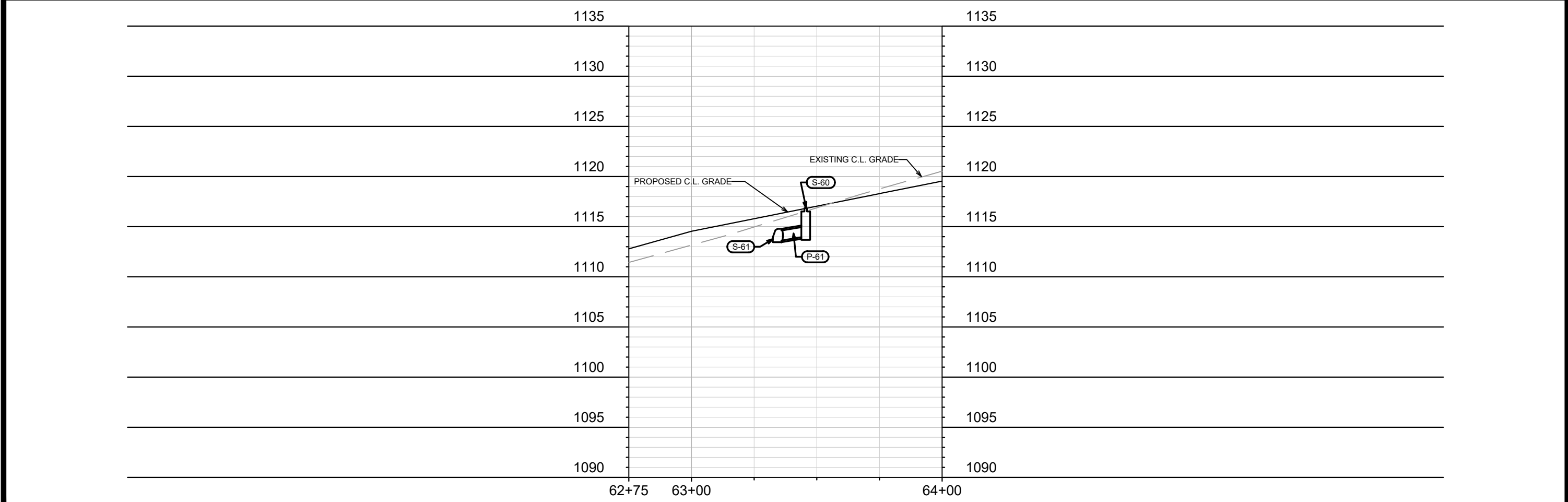
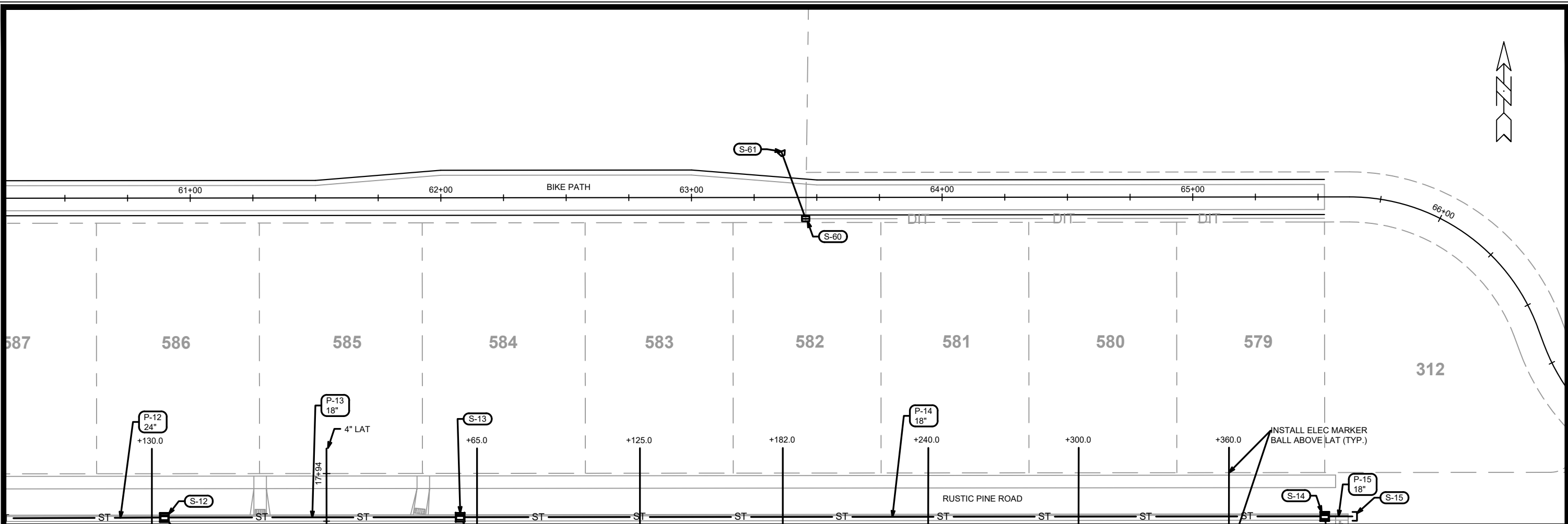


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14342  
MADISON, WI  
CONTRACT NO: 9215

PLAN & PROFILE - OUTLOT 16  
ACACIA RIDGE - PHASE 8  
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14342  
U-7



MARK	REVISION	DATE	BY
14342	U-8	3/17/2023	2:18 PM

14342  
MADISON, WI  
9215  
CONTRACT NO:

PLAN & PROFILE - BIKE PATH  
ACACIA RIDGE - PHASE 8  
M:\DESIGN\Projects\14342\CAD\sewers\14342SWR-PipeNetwork.dwg



14342  
U-8

# SANITARY SEWER SCHEDULE

ACACIA RIDGE PHASE 8  
PROJECT NO. 14342

SHEET NO.  
U-9

SANITARY SEWER SCHEDULE

CITY OF MADISON

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>REDAN DRIVE</b>						
SAS#2	88+84.12	CL	1091.16	1078.00	13.16	-
SAS#3	86+32.30	CL	1095.14	1081.90	13.24	-
<b>RUSTIC PINE ROAD</b>						
SAS#4	11+00.00	CL	1091.56	1081.50	10.06	-
SAS#5	12+99.75	CL	1102.41	1091.39	11.02	-
SAS#6	17+10.35	CL	1130.94	1119.89	11.05	-
<b>TAWNY ACORN DRIVE</b>						
SAS#1	82+40.71	CL	1088.66	1075.90	12.76	-
<b>WHITE SKY PASS</b>						
SAS#7	14+82.06	CL	1107.01	1095.98	11.03	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>REDAN DRIVE</b>								
SAS#1	SAS#2	1076.00	1078.00	161	1.24%	10"	SDR-26	-
SAS#2	SAS#3	1078.10	1081.90	250	1.52%	8"	SDR-26	-
<b>RUSTIC PINE ROAD</b>								
SAS#2	SAS#4	1078.10	1081.50	100	3.40%	8"	SDR-26	-
SAS#4	SAS#5	1081.60	1091.39	200	4.90%	8"	SDR-35	-
SAS#5	SAS#6	1091.49	1119.89	411	6.92%	8"	SDR-35	-
<b>TAWNY ACORN DRIVE</b>								
EX 1761-006	SAS#1	1069.41	1075.90	157	4.13%	10"	SDR-26	-
<b>WHITE SKY PASS</b>								
SAS#5	SAS#7	1091.49	1095.98	279	1.61%	8"	SDR-35	-

## SPECIFIC NOTES

# STORM SEWER SCHEDULE

\* REVISED 08/08/2023 - FBEG

ACACIA RIDGE PHASE 8  
PROJECT NO. 14342

SHEET NO.  
U-10

STORM SEWER SCHEDULE

CITY OF MADISON

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>BIKE PATH</b>							
S-60	63+45.56	RT-8.50	H INLET	1116.85	1114.02	2.83	FP, W/R-1878-B7G
S-61	63+35.85	LT-18.37	12" RCP AE	-	1113.62	-	W/GATE
<b>REDAN DRIVE</b>							
S-0	90+80.90	LT-23.50	4x4 STORM SAS	1088.18	1081.44	6.74	W/R-1550-0054
S-1	90+05.62	LT-16.50	4x4 STORM SAS	1089.35	1082.04	7.31	W/R-3067-7004-V
S-2	89+28.73	LT-16.50	4x4 STORM SAS	1090.49	1084.20	6.29	W/R-3067-7004-V
S-3	87+83.99	LT-27.60	PLUG	-	1087.03	-	-
<b>RUSTIC PINE ROAD</b>							
S-10	10+42.02	LT-15.50	3x3 STORM SAS	1090.82	1085.88	4.94	[1], LP, W/R-3067-7004-VB
S-10A	10+42.02	RT-15.50	H INLET	1090.82	1087.50	3.32	[1], LP, W/R-3067-7004-VB
S-11	11+07.37	LT-15.50	3x3 STORM SAS	1091.90	1086.83	5.07	W/R-3067-7004-V
S-12	12+35.05	LT-15.50	3x3 STORM SAS	1098.96	1094.00	4.96	W/R-3067-7004-V
S-13	13+53.02	LT-15.50	3x3 STORM SAS	1105.17	1100.00	5.17	W/R-3067-7004-V
S-13A	13+71.77	RT-15.50	H INLET	1106.11	1102.78	3.33	W/R-3067-7004-V
S-14	16+98.00	LT-15.50	3x3 STORM SAS	1130.28	1124.32	5.96	W/R-3067-7004-V
S-14A	17+02.35	RT-15.50	H INLET	1130.56	1127.23	3.33	W/R-3067-7004-V
S-15	17+09.06	LT-15.50	PLUG	-	1124.76	-	-
<b>TAWNY ACORN DRIVE</b>							
S-50	81+94.92	LT-15.50	3x3 STORM SAS	1088.27	1082.44	5.83	W/R-3067-7004-V
S-51	81+02.19	LT-15.50	3x3 STORM SAS	1087.22	1082.89	4.33	W/R-3067-7004-V
S-52	81+00.89	RT-15.50	H INLET	1087.20	1083.05	4.15	W/R-3067-7004-V
S-53	80+97.61	RT-155.48	3' DIA STORM SAS	1086.00	1083.75	2.25	W/R-1689-2560-E
<b>WHITE SKY PASS</b>							
S-20	17+24.00	LT-15.50	3x3 STORM SAS	1101.89	1097.11	4.78	(1), LP, W/R-3067-7004-V
S-20A	17+24.00	RT-15.50	H INLET	1103.01	1098.75	4.26	LP, W/R-3067-7004-VB
S-21	16+45.67	LT-15.50	3x3 STORM SAS	1103.20	1098.48	4.72	W/R-3067-7004-V
* S-22	15+95.92	LT-15.50	PLUG	-	<b>1099.43</b>	-	-
S-30	16+36.68	RT-15.50	H INLET	1103.88	1100.25	3.63	W/R-3067-7004-V
S-31	16+26.75	RT-30.70	H INLET	1104.32	1100.91	3.41	W/R-3362-L
S-32	16+13.25	RT-31.20	H INLET	1104.60	1101.15	3.45	W/R-3362-L

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY PIPE) LGTH (FT)	PLAN (PAY PIPE) LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>BIKE PATH</b>										
P-61	S-61	S-60	1113.62	1114.02	28.5	27.5	1.45%	12"	RCP	-
<b>REDAN DRIVE</b>										
P-0	PL1760-078	S-0	1080.82	1081.44	75.5	73.6	0.84%	36"	RCP	-
P-1	S-0	S-1	1081.44	1082.04	75.5	71.6	0.84%	36"	RCP	-
P-2	S-1	S-2	1082.04	1084.20	76.0	71.8	3.01%	36"	RCP	-
P-3	S-2	S-3	1085.70	1087.03	138.5	136.3	0.98%	18"	TYPE II	-
<b>RUSTIC PINE ROAD</b>										
P-10	S-2	S-10	1085.20	1085.88	66.5	62.5	1.09%	24"	RCP	-
P-10A	S-10	S-10A	1086.88	1087.50	31.0	28.5	2.17%	12"	RCP	-
P-11	S-10	S-11	1085.88	1086.83	69.0	65.9	1.44%	24"	TYPE II	-
P-12	S-11	S-12	1086.83	1094.00	129.0	126.0	5.69%	24"	TYPE II	-
P-13	S-12	S-13	1094.50	1100.00	118.0	115.1	4.78%	18"	TYPE II	-
P-13A	S-13	S-13A	1100.50	1102.78	36.5	33.3	6.85%	12"	RCP	-
P-14	S-13	S-14	1100.00	1124.32	345.0	342.1	7.11%	18"	TYPE II	-
P-14A	S-14	S-14A	1124.82	1127.23	31.5	28.9	8.35%	12"	RCP	-
P-15	S-14	S-15	1124.32	1124.76	11.0	9.6	4.58%	18"	TYPE II	-
<b>TAWNY ACORN DRIVE</b>										
P-50	S-0	S-50	1082.29	1082.44	30.0	25.7	0.58%	15"	TYPE II	-
P-51	S-50	S-51	1082.44	1082.89	89.5	86.5	0.52%	15"	TYPE II	-
P-52	S-51	S-52	1082.89	1083.05	31.0	29.0	0.55%	12"	RCP	-
P-53	S-52	S-53	1083.05	1083.75	140.0	137.6	0.51%	12"	RCP	-
<b>WHITE SKY PASS</b>										
P-20	S-12	S-20	1094.87	1097.11	72.0	67.7	3.31%	21"	RCP	-
P-20A	S-20	S-20A	1097.86	1098.75	31.0	28.5	3.12%	12"	RCP	-
P-21	S-20	S-21	1097.11	1098.48	78.5	75.4	1.82%	21"	TYPE II	-
* P-22	S-21	S-22	<b>1098.48</b>	<b>1099.43</b>	50.0	48.3	<b>1.97%</b>	<b>21"</b>	TYPE II	-
P-30	S-21	S-30	1099.23	1100.25	32.5	29.7	3.43%	12"	RCP	-
P-31	S-30	S-31	1100.25	1100.91	18.0	15.0	4.40%	12"	TYPE II	-
P-32	S-31	S-32	1100.91	1101.15	14.0	12.0	2.00%	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.

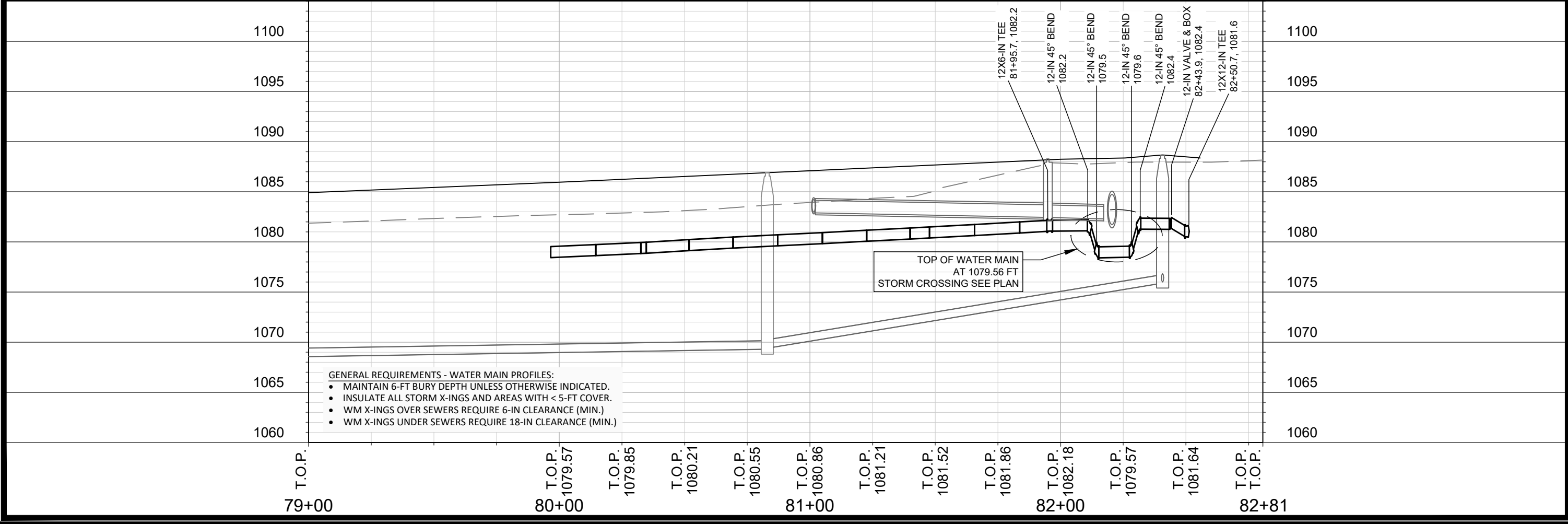
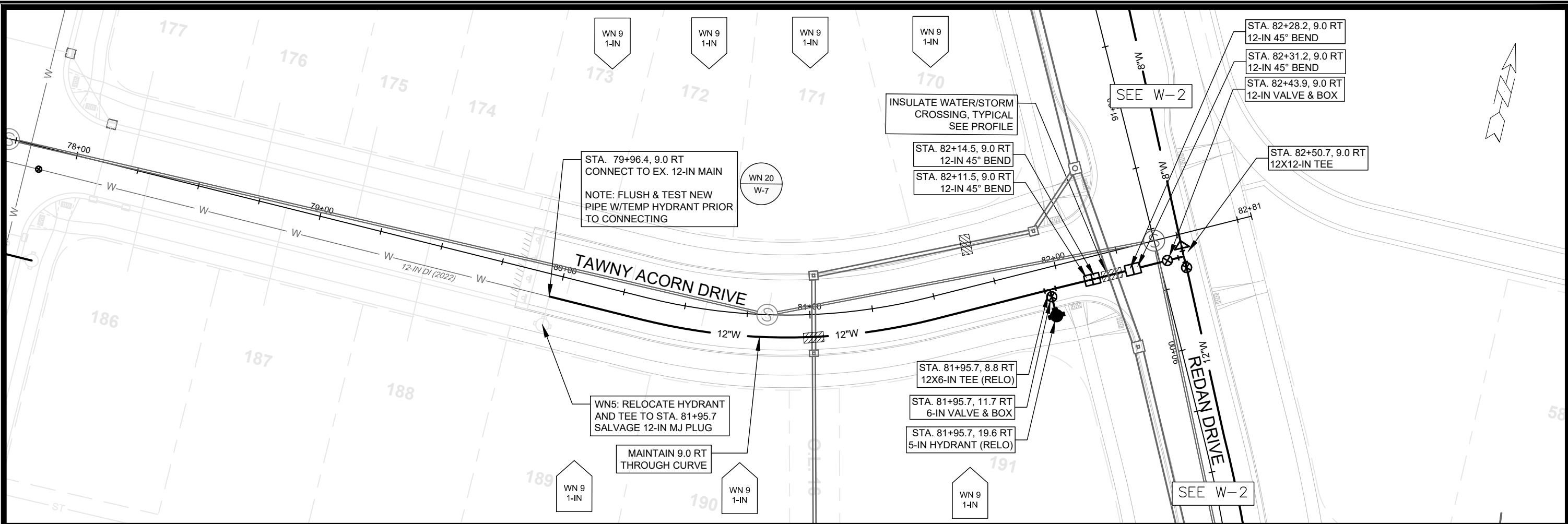
## SPECIFIC NOTES

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

## 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
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SASs.
- 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 REBAR FOR FIELD POUR 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.
- 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 TODD CHOJNOWSKI OF CITY ENGINEERING AT (608) 266-4094 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO TCHOJNOWSKI@CITYOFMADISON.COM.





SCALE: 1" = 40'  
 DESIGNED BY: NGM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 2/14/23

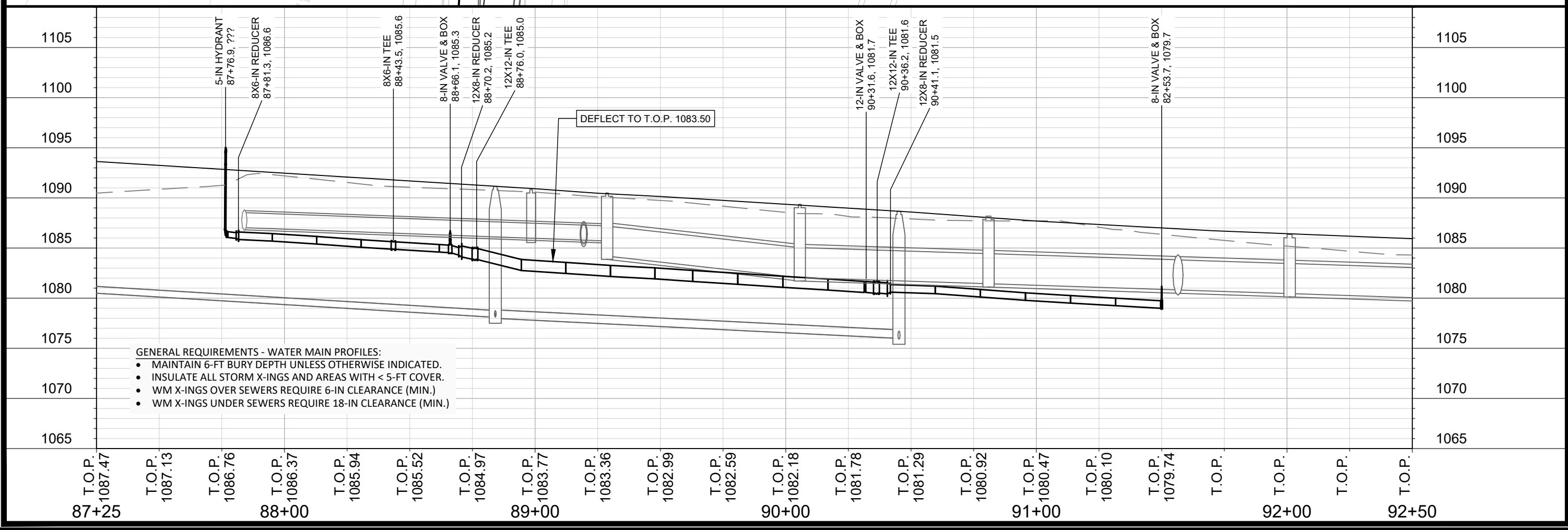
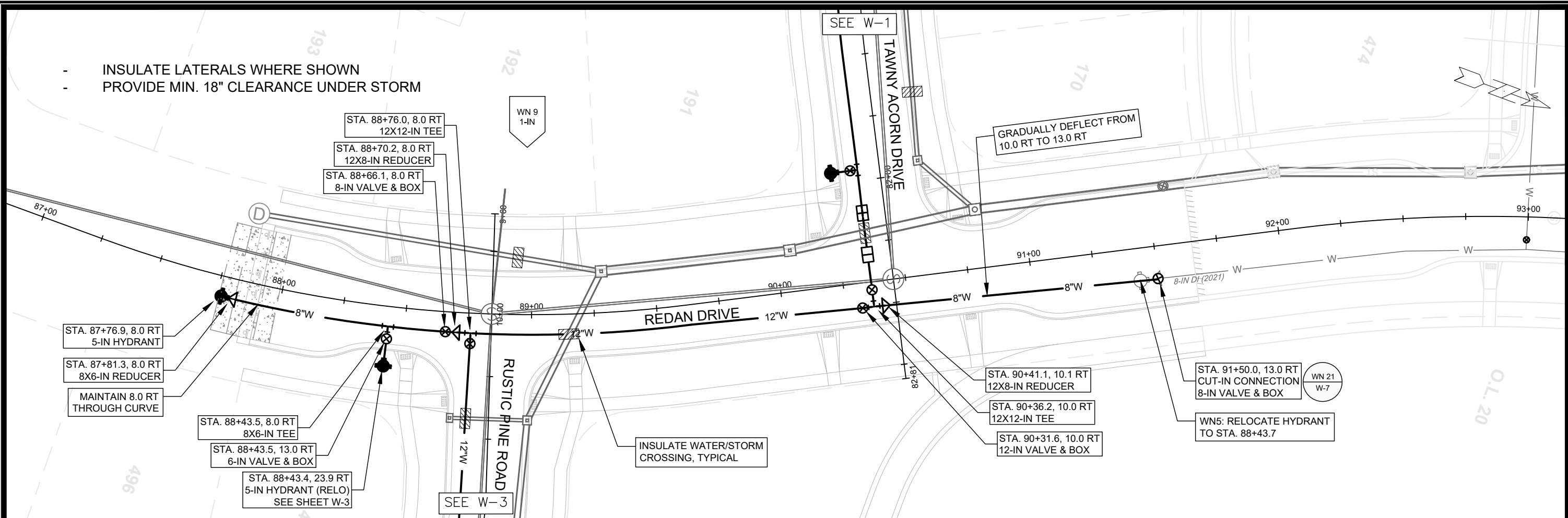
CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
 WATER PLAN AND PROFILE - TAWNY ACORN DRIVE  
 CITY OF MADISON, WISCONSIN



14342  
 W-1

- INSULATE LATERALS WHERE SHOWN
- PROVIDE MIN. 18" CLEARANCE UNDER STORM



- 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.)

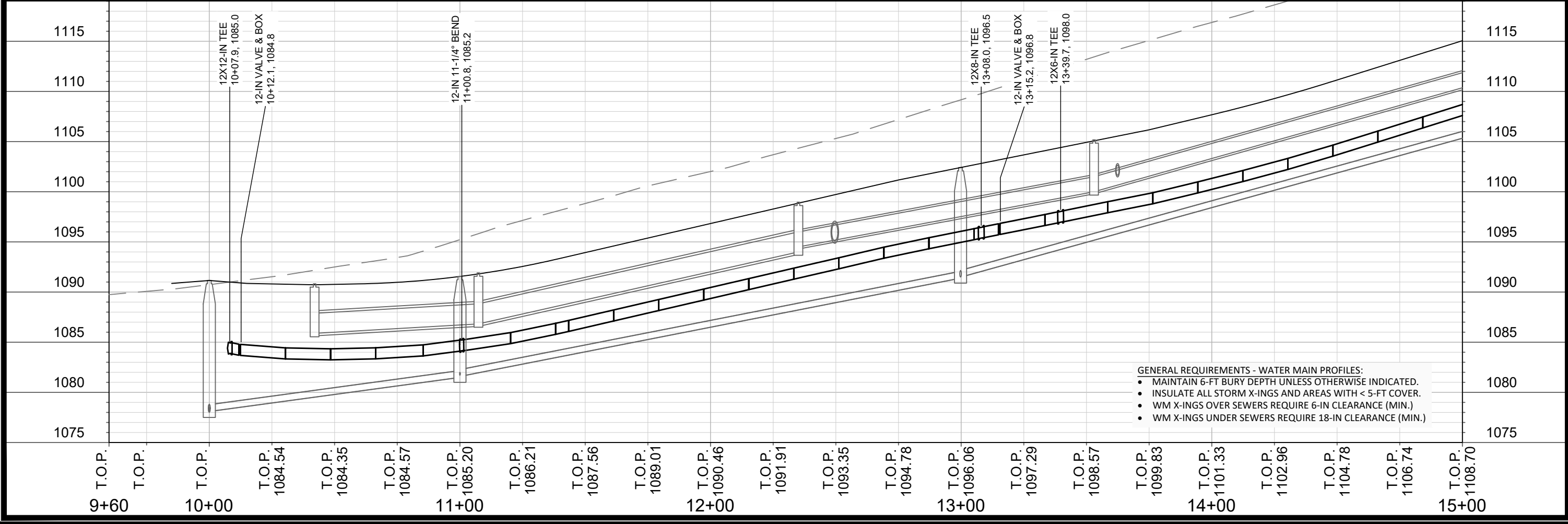
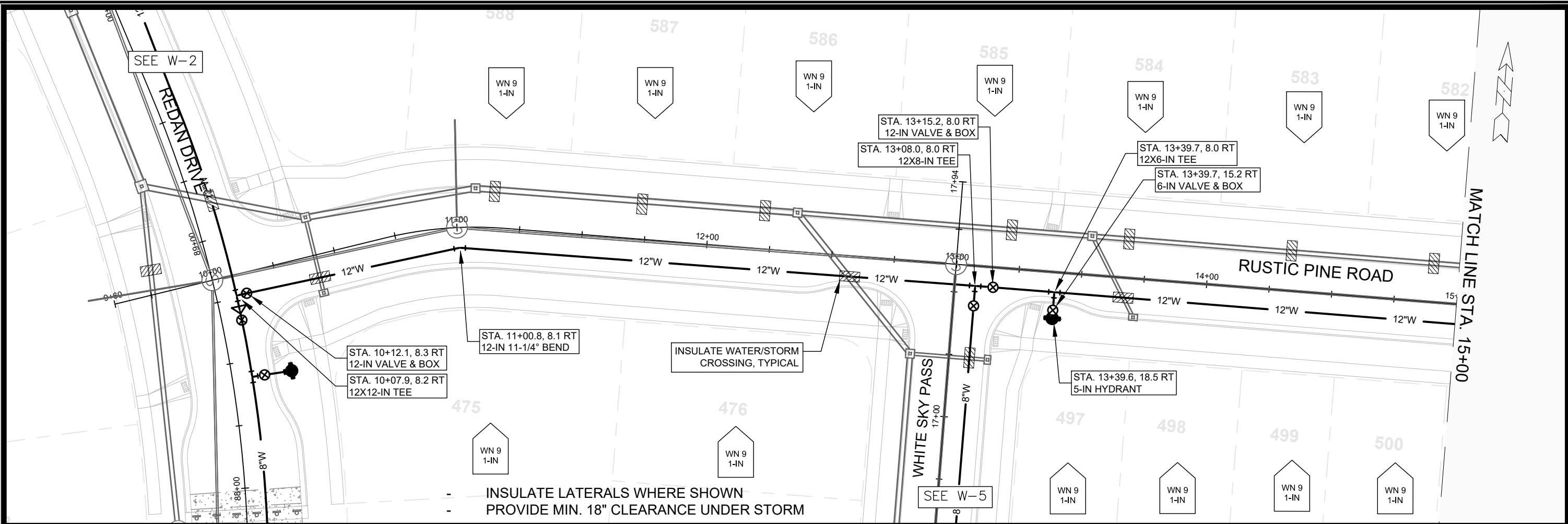
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 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 2/14/23

CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
 WATER PLAN AND PROFILE - REDAN DRIVE  
 CITY OF MADISON, WISCONSIN



14342  
 W-2



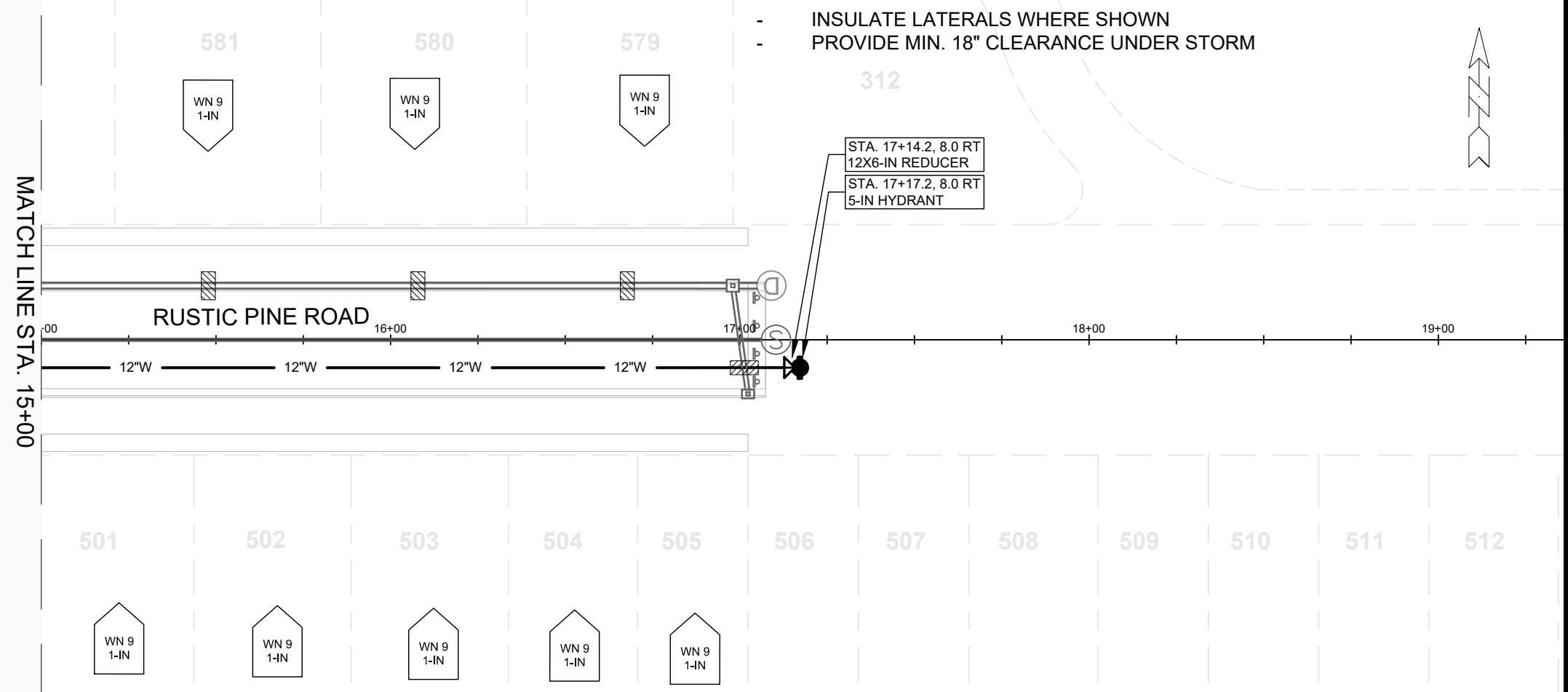
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 119 E OLIN AVE, MADISON, WI 53713  
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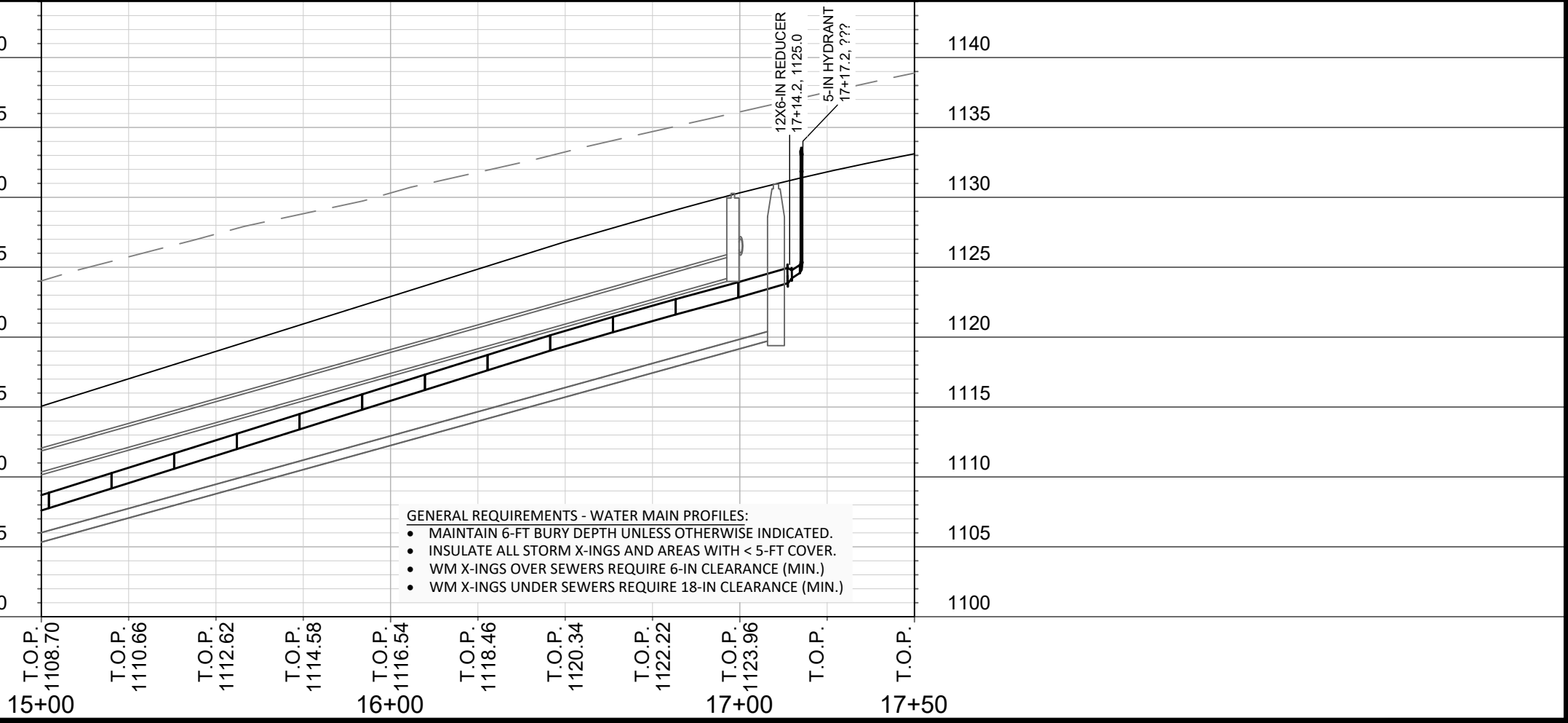
ACACIA RIDGE - PHASE 8  
 WATER PLAN AND PROFILE - RUSTIC PINE ROAD  
 CITY OF MADISON, WISCONSIN



14342  
 W-3



- INSULATE LATERALS WHERE SHOWN
- PROVIDE MIN. 18" CLEARANCE UNDER STORM



- 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.)

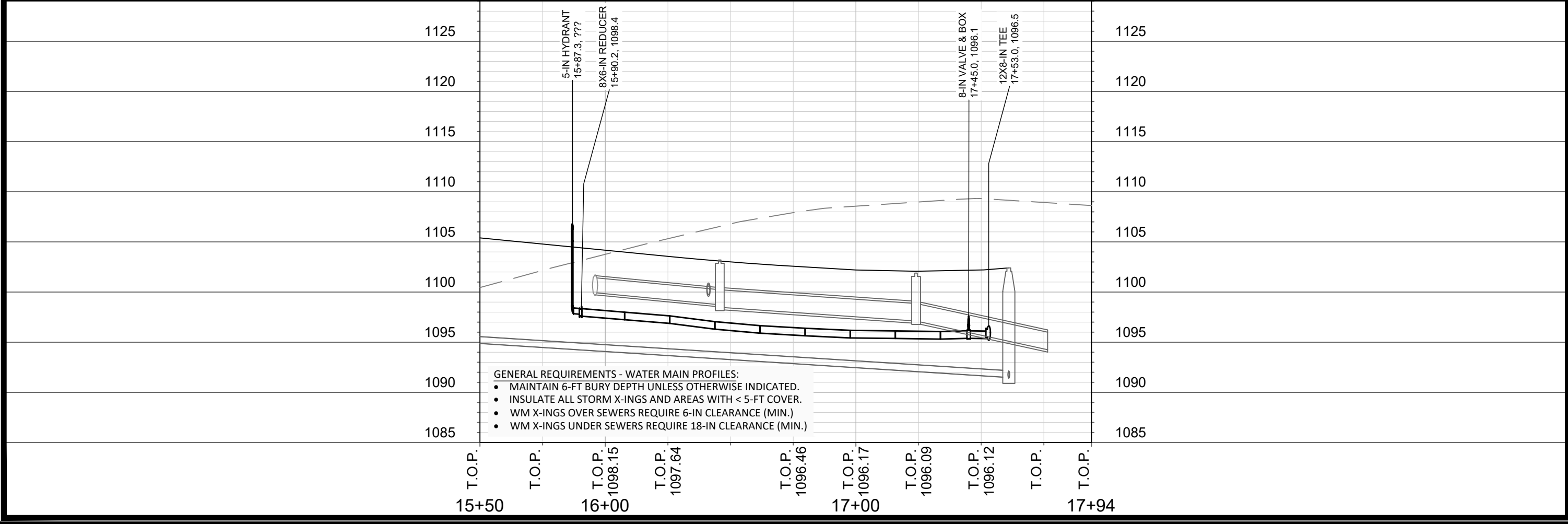
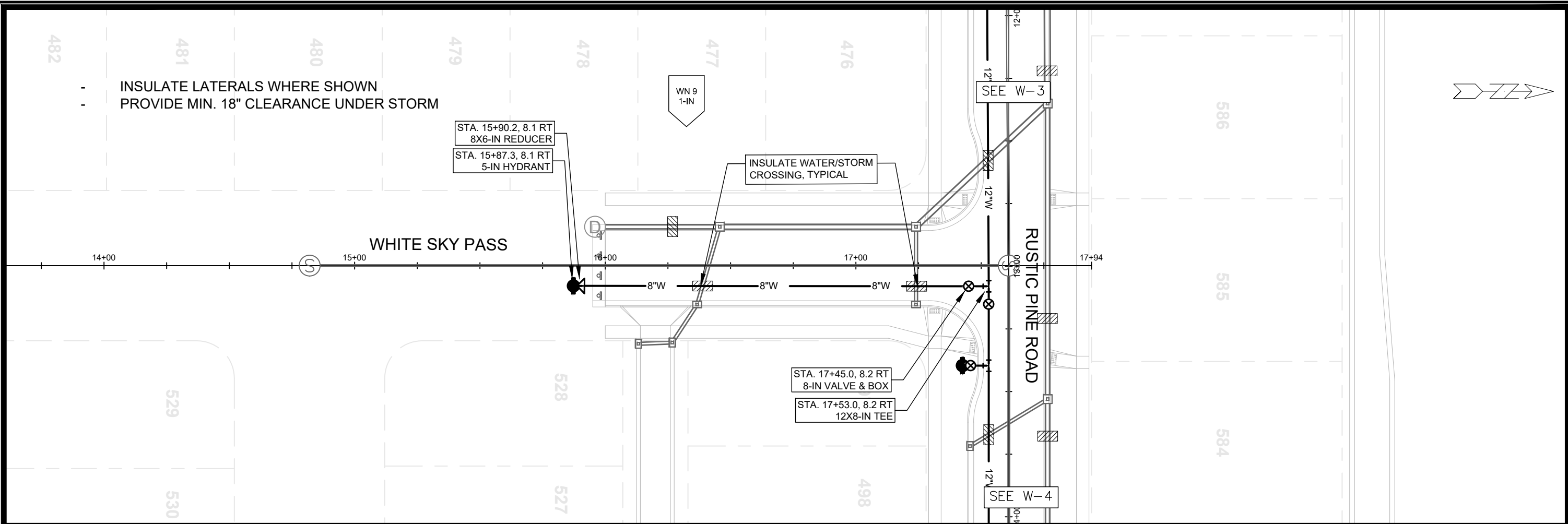
SCALE: 1" = 40'  
 DESIGNED BY: NGM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 2/14/23

CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
 WATER PLAN AND PROFILE - RUSTIC PINE ROAD  
 CITY OF MADISON, WISCONSIN



14342  
 W-4



INSULATE LATERALS WHERE SHOWN  
 PROVIDE MIN. 18" CLEARANCE UNDER STORM

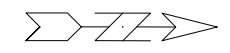
STA. 15+90.2, 8.1 RT  
 8X6-IN REDUCER  
 STA. 15+87.3, 8.1 RT  
 5-IN HYDRANT

INSULATE WATER/STORM  
 CROSSING, TYPICAL

STA. 17+45.0, 8.2 RT  
 8-IN VALVE & BOX  
 STA. 17+53.0, 8.2 RT  
 12X8-IN TEE

SEE W-3

SEE W-4



SCALE: 1" = 40'  
 DESIGNED BY: NGM  
 MADISON WATER UTILITY  
 119 E OLIN AVE, MADISON, WI 53713  
 PRINTING DATE: 2/14/23

CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
 WATER PLAN AND PROFILE - WHITE SKY PASS  
 CITY OF MADISON, WISCONSIN



14342  
 W-5



**CONSTRUCTION NOTES:**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>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.</li> <li>2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.</li> <li>3. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.</li> </ol> | <p>WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.</p> <p>WN-2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.</p> <p>WN-3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.</p> <p>WN-4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.</p> <p>WN-5 RELOCATE THE EXISTING FIRE HYDRANT.</p> <p>WN-6 ABANDON WATER VALVE ACCESS STRUCTURE.</p> <p>WN-7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.</p> <p>WN-8 ABANDON THE VALVE BOX.</p> <p>WN-9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.</p> <p>WN-10 REMOVE AND SALVAGE EXISTING HYDRANT</p> <p>WN-11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE</p> <p>WN-20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.</p> |
|---|---|

**WATER UTILITY ULO SCHEDULE**

**\*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

PAY_ITEM_ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	47	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	393	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	1230	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	4	EACH
70040	FURNISH INSTALL AND SALVAGE HYDRANT	4	EACH
70050	FURNISH AND INSTALL 1-INCH SERVICE LATERALS	30	EACH
70101	FURNISH AND INSTALL STYROFOAM	22	EACH
71125	12-IN 45° BEND	4	EACH
71149	12-IN 11-1/4° BEND	1	EACH
71159	8X6-IN REDUCER	2	EACH
71164	12X6-IN REDUCER	1	EACH
71165	12X8-IN REDUCER	2	EACH
71210	8X6-IN TEE	1	EACH
71217	12X6-IN TEE	2	EACH
71218	12X8-IN TEE	1	EACH
71220	12X12-IN TEE	2	EACH

**\*ESTIMATE OF MATERIALS SUPPLIED BY WATER UTILITY:**  
N/A

**\*ESTIMATE OF MATERIALS SALVAGED:**

RELOCATED HYDRANT	2	EACH
12-IN MJ PLUG	1	EACH
RELOCATED 12X6-IN TEE	1	EACH

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

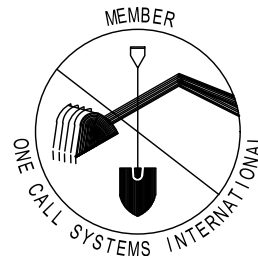
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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

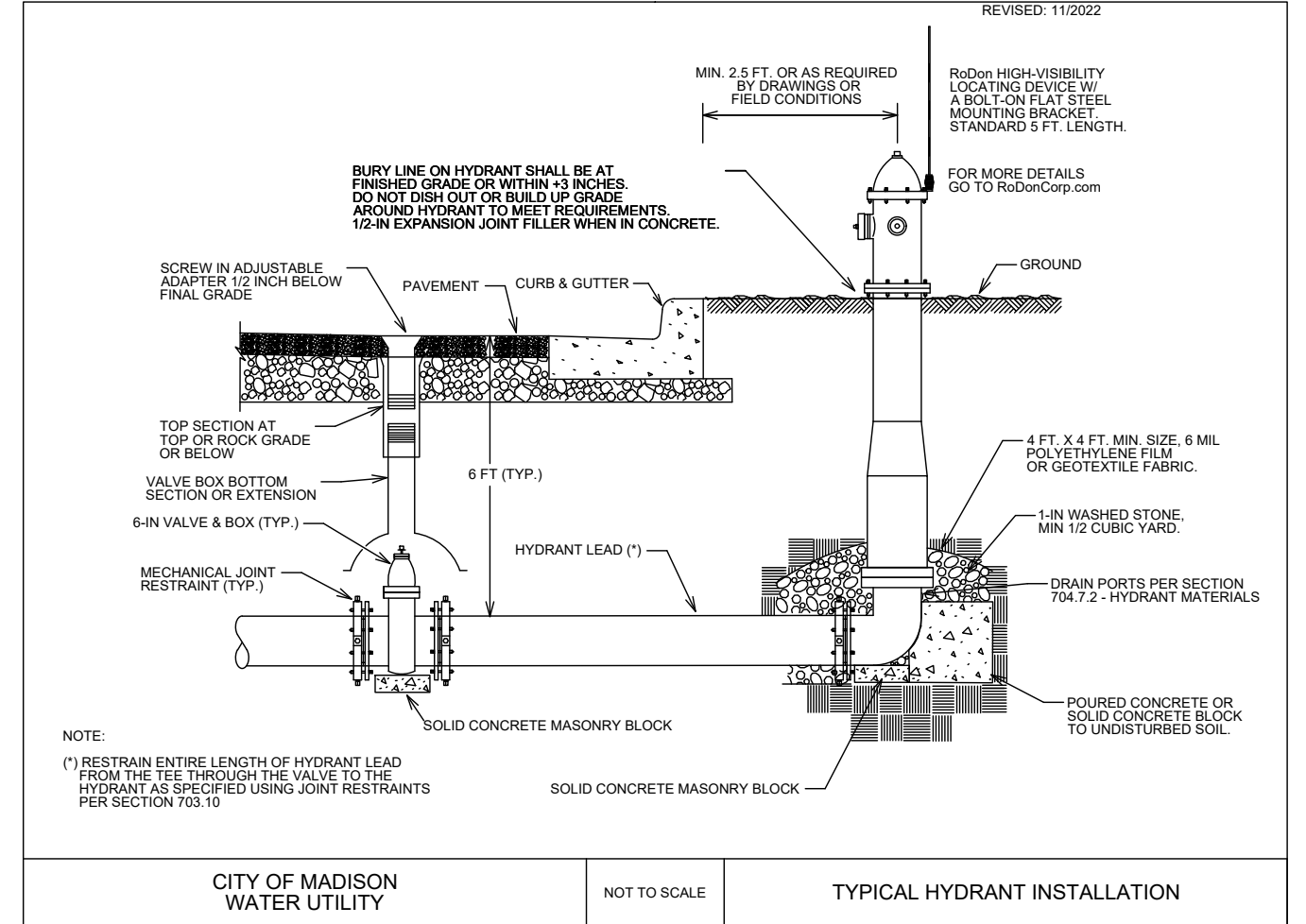
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



**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: 11/2022



CITY OF MADISON WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

SCALE: #####  
DESIGNED BY: NGM  
MADISON WATER UTILITY  
119 E OLIN AVE, MADISON, WI 53713  
PRINTING DATE: 2/9/23

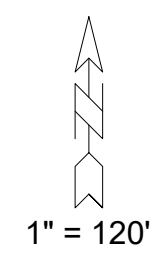
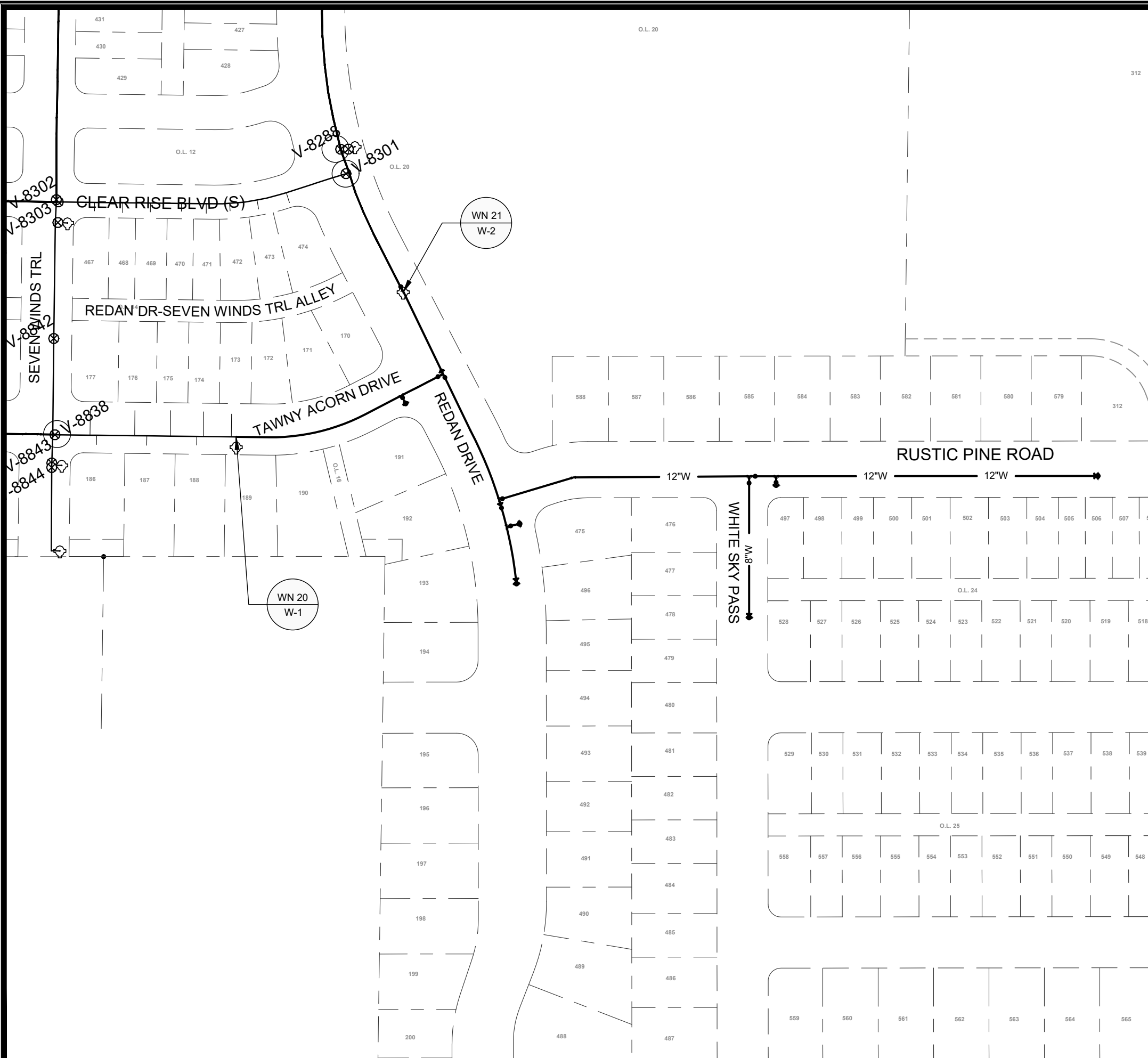
CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
WATER ESTIMATE OF MATERIALS  
CITY OF MADISON, WISCONSIN



14342

W-6



WN20: CUT-IN CONNECTION  
TAWNY ACORN DRIVE

ISOLATION VALVES:  
- V-8838 (12-IN)

WN21: CUT-IN CONNECTION  
REDAN DRIVE

ISOLATION VALVES:  
- V-8301 (8-IN)  
- V-8288 (8-IN)

**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.

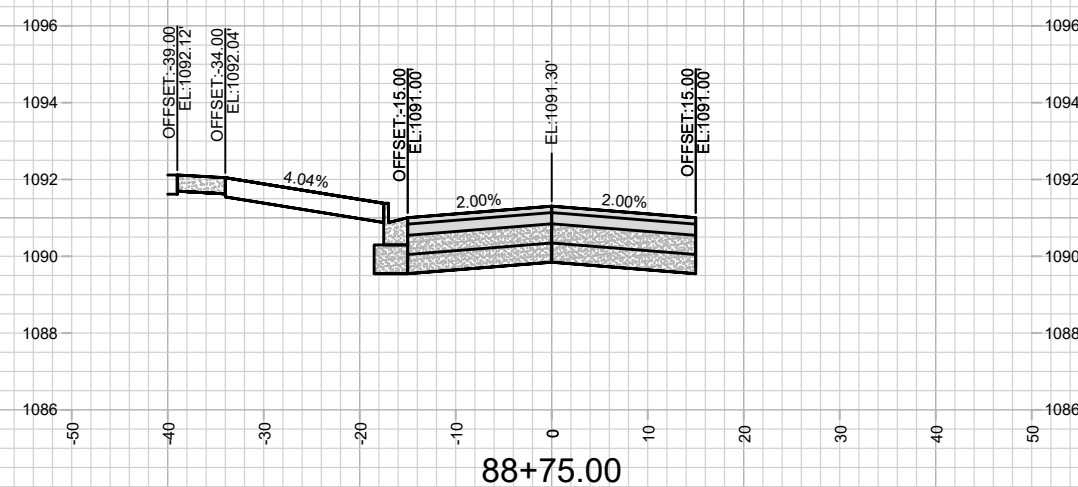
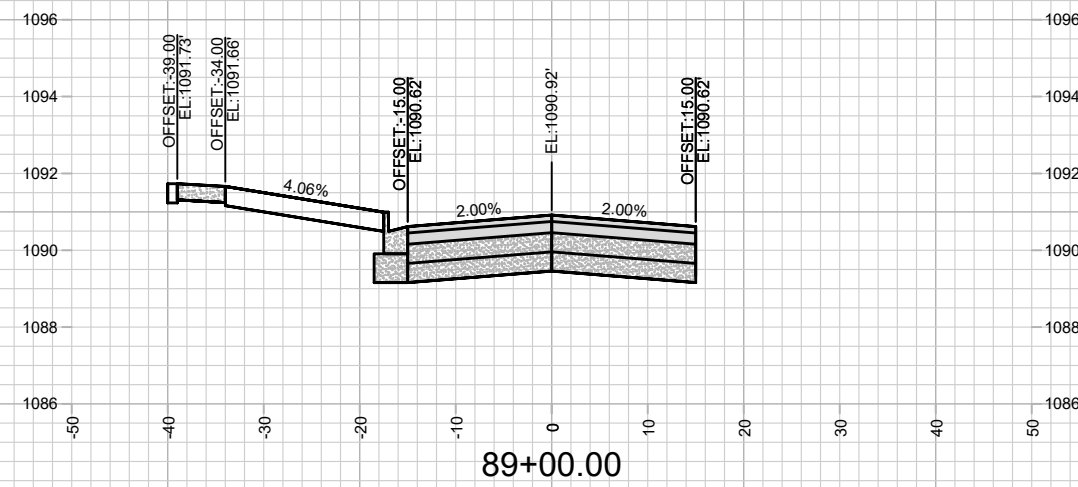
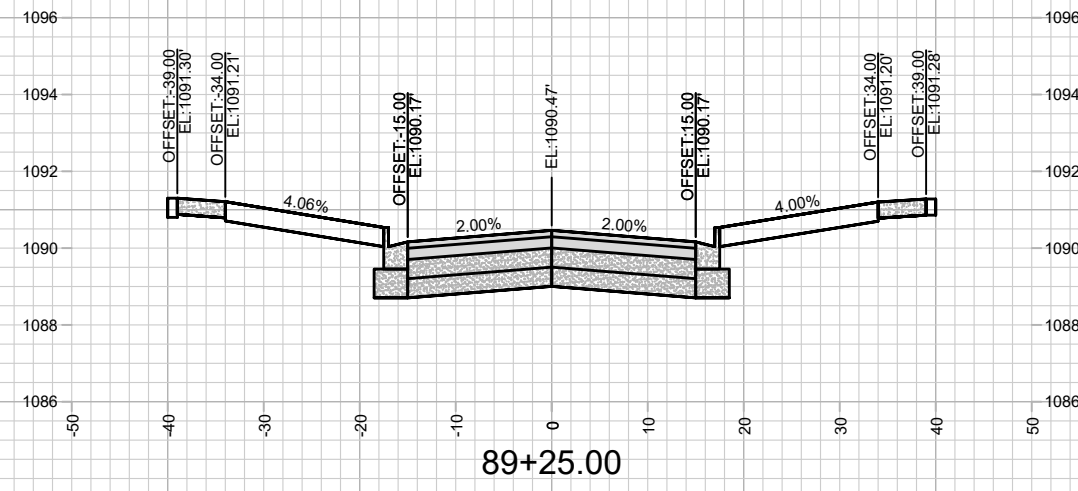
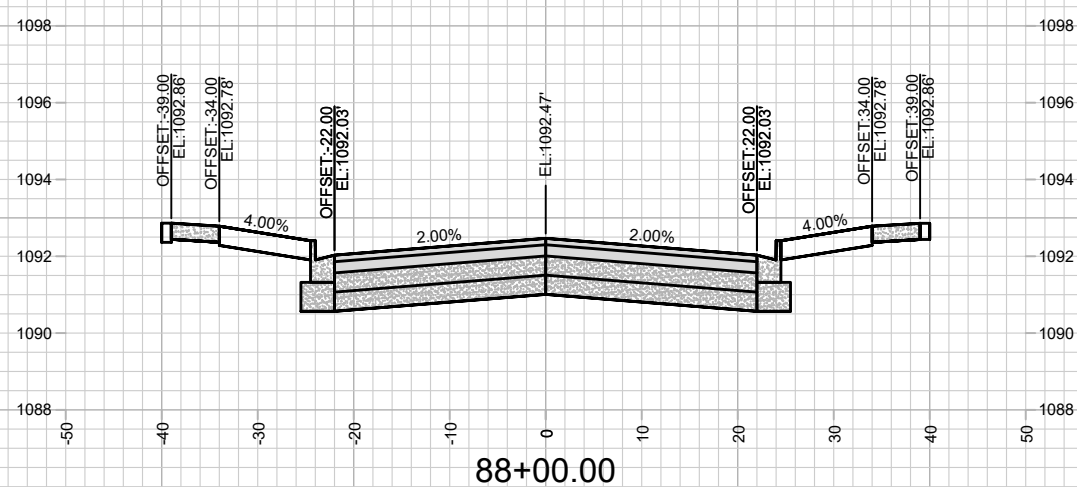
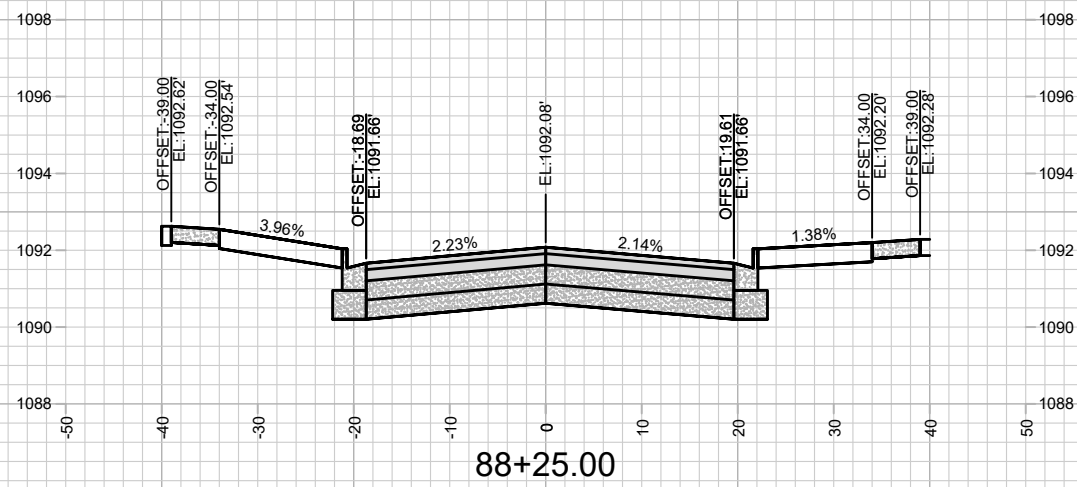
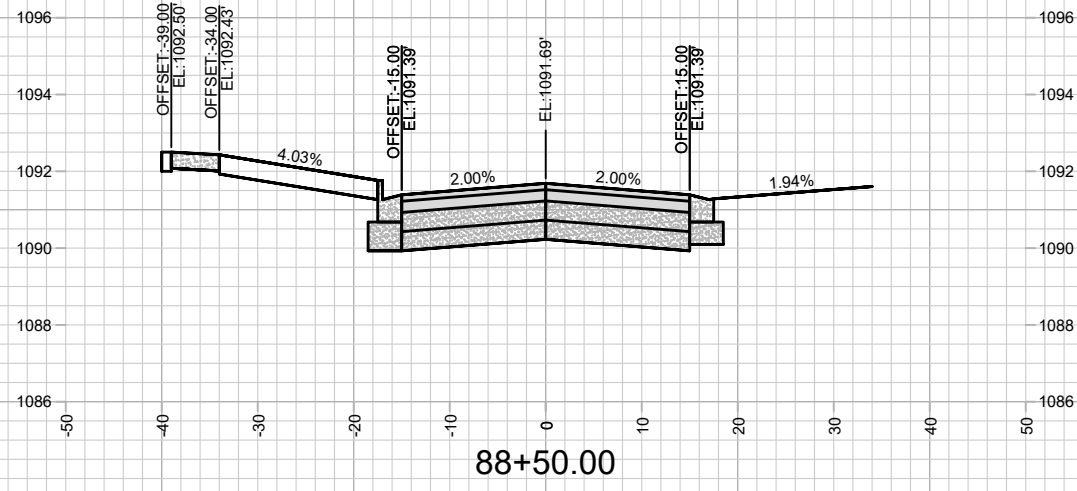
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DESIGNED BY: NGM  
MADISON WATER UTILITY  
119 E OLIN AVE, MADISON, WI 53713  
PRINTING DATE: 4/26/23

CONTRACT NO: 9215

ACACIA RIDGE - PHASE 8  
WATER IMPACT PLAN  
CITY OF MADISON, WISCONSIN



14342  
W-7



MARK	REVISION	DATE	BY

14342  
MADISON, WI  
9215  
CONTRACT NO:

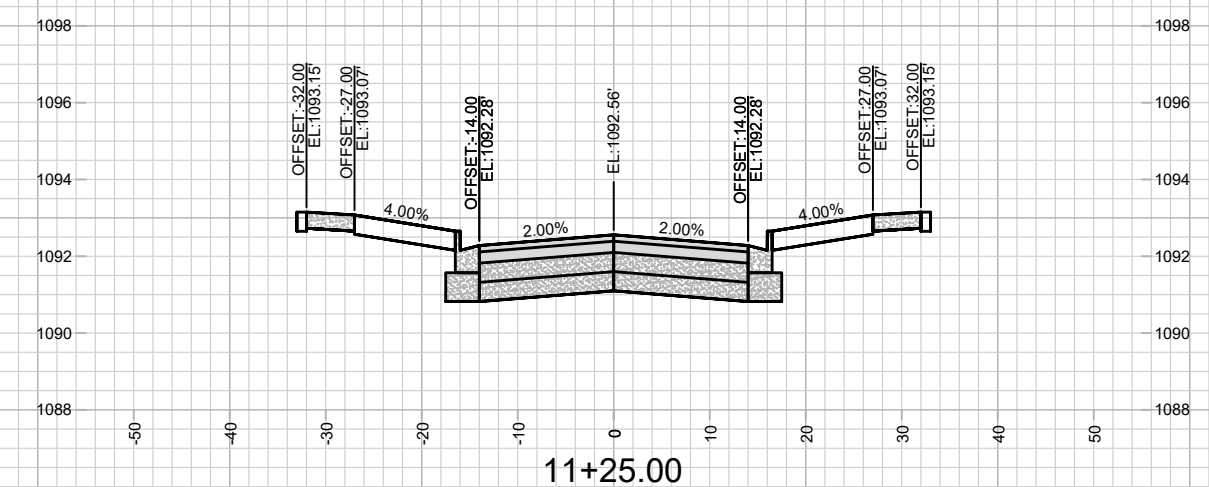
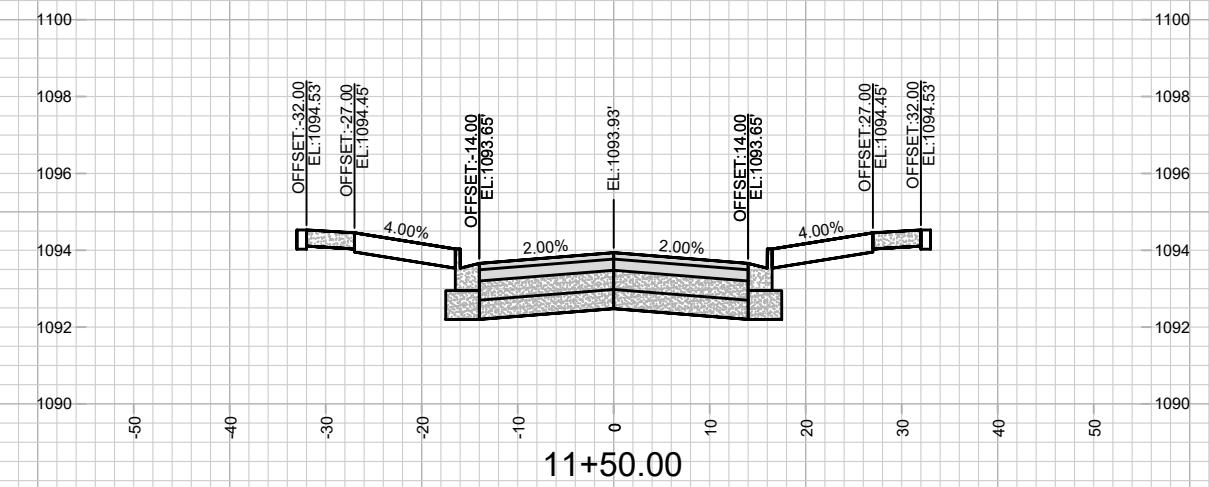
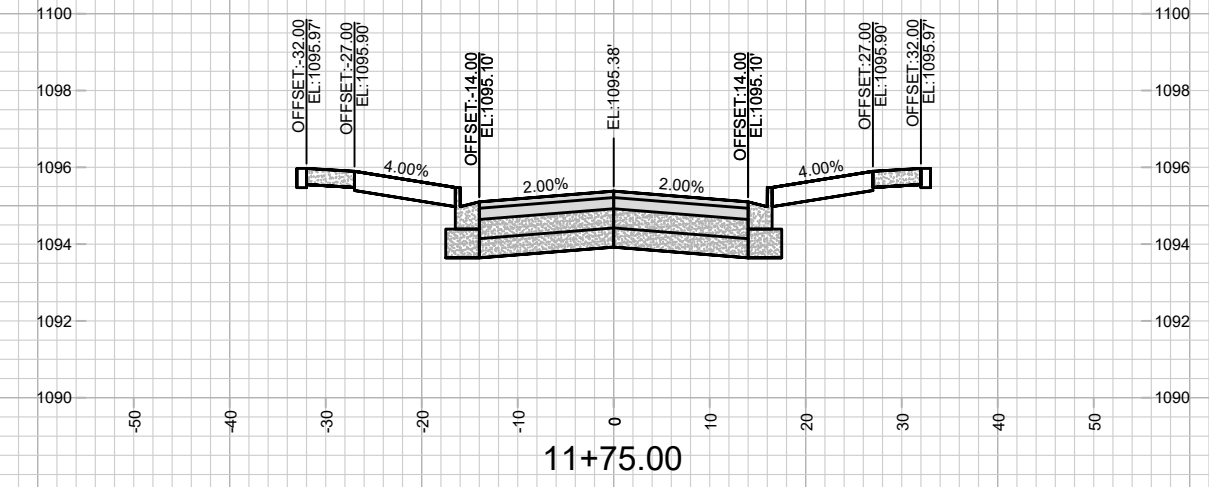
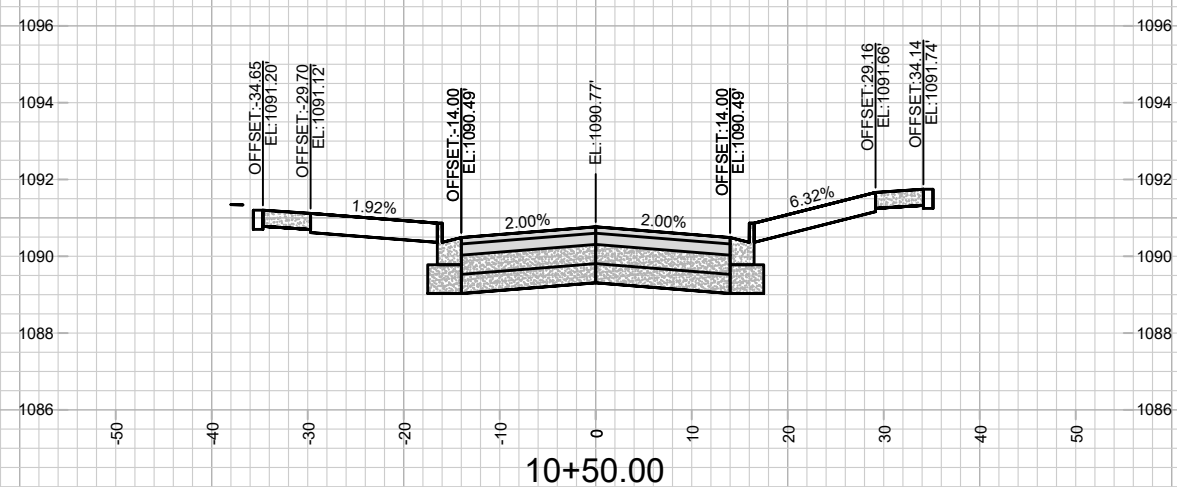
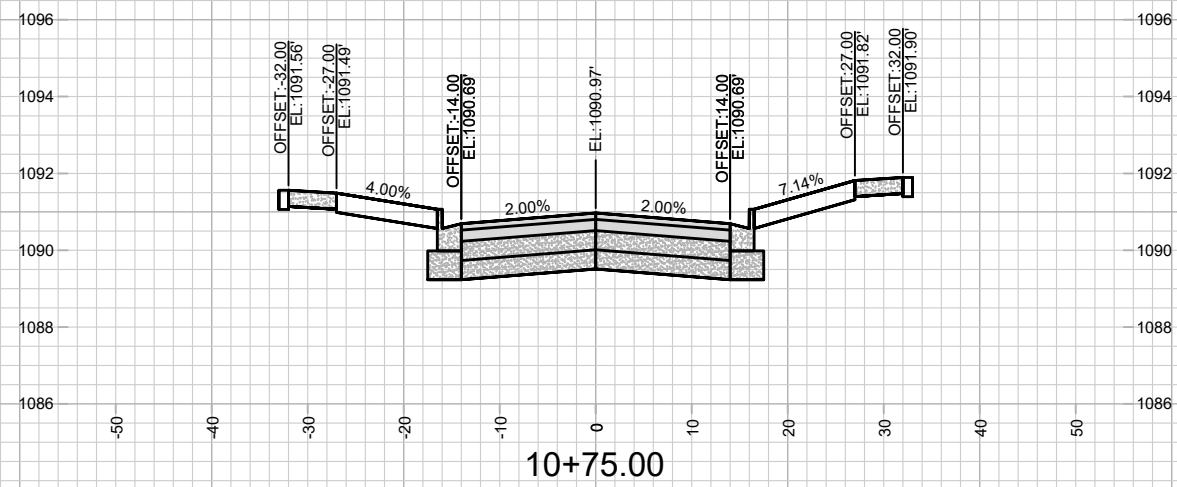
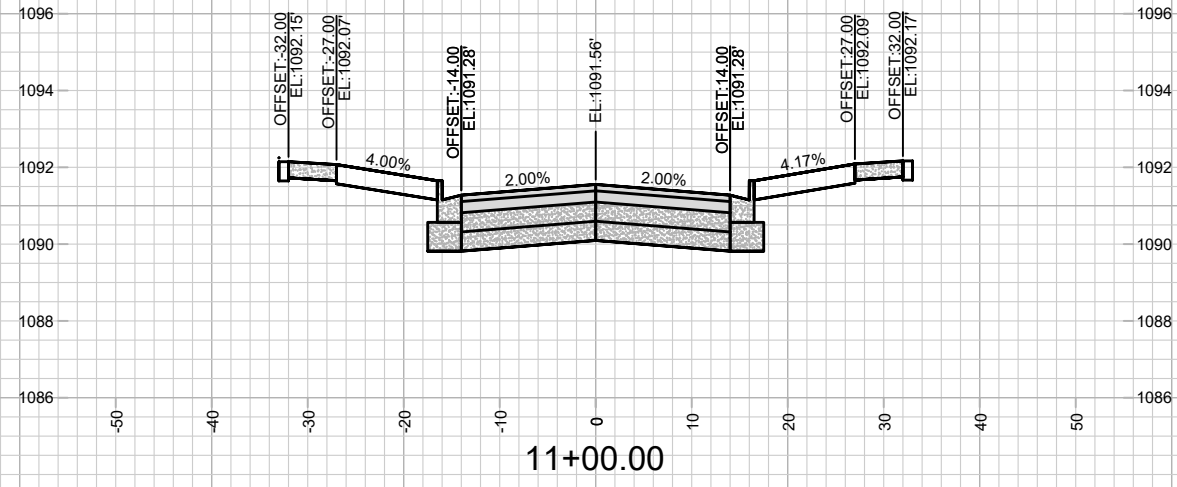
CROSS SECTIONS - REDAN DRIVE  
ACACIA RIDGE - PHASE 8  
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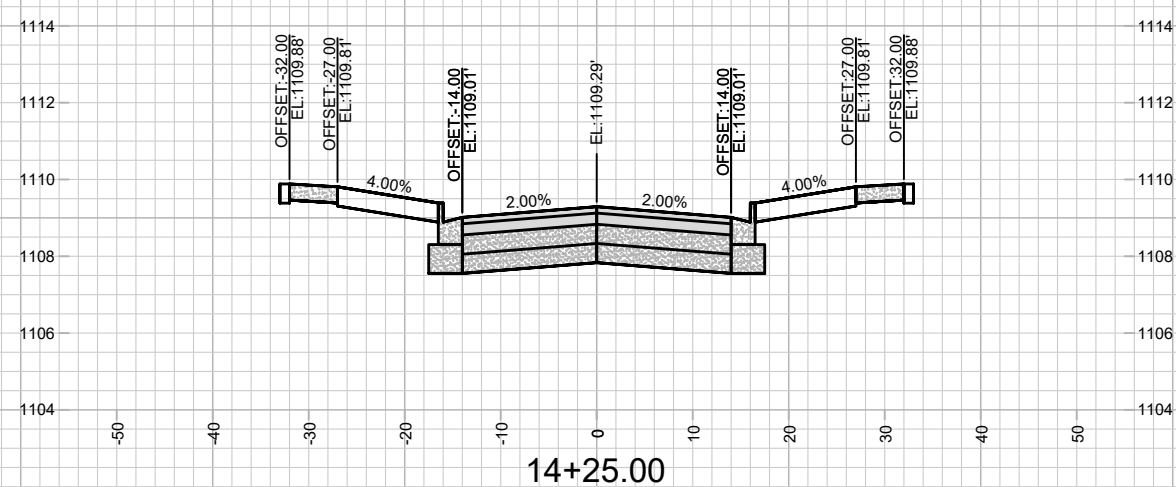
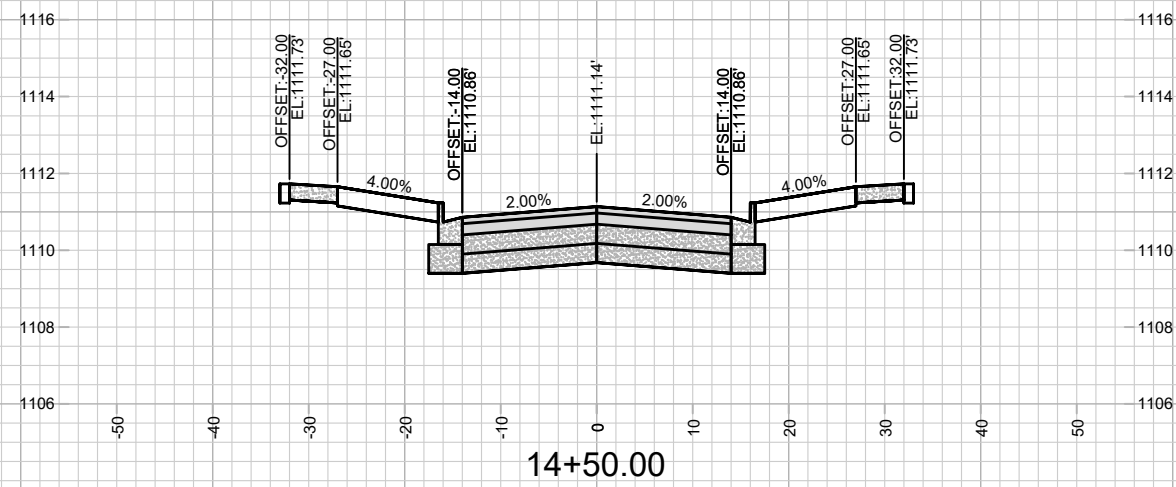
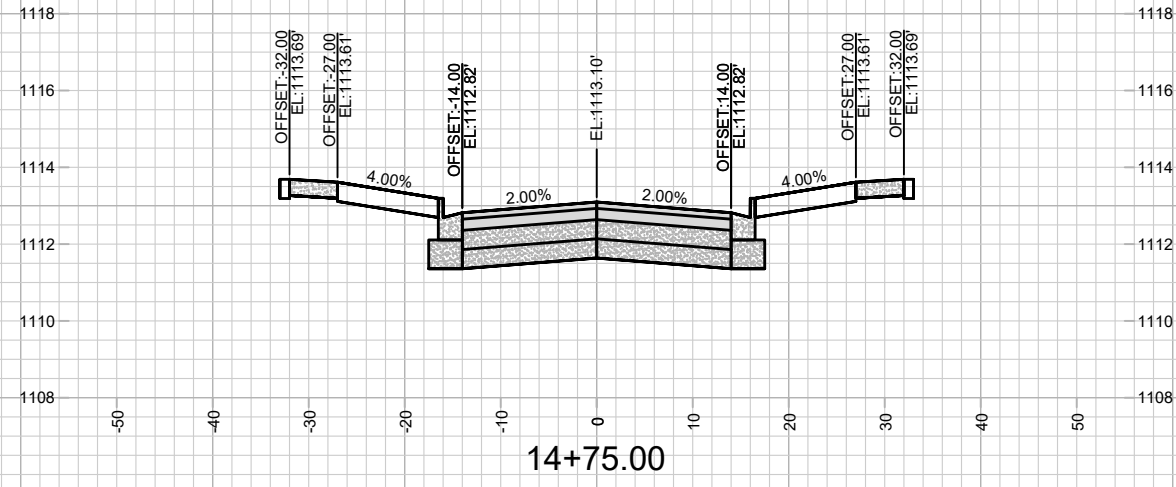
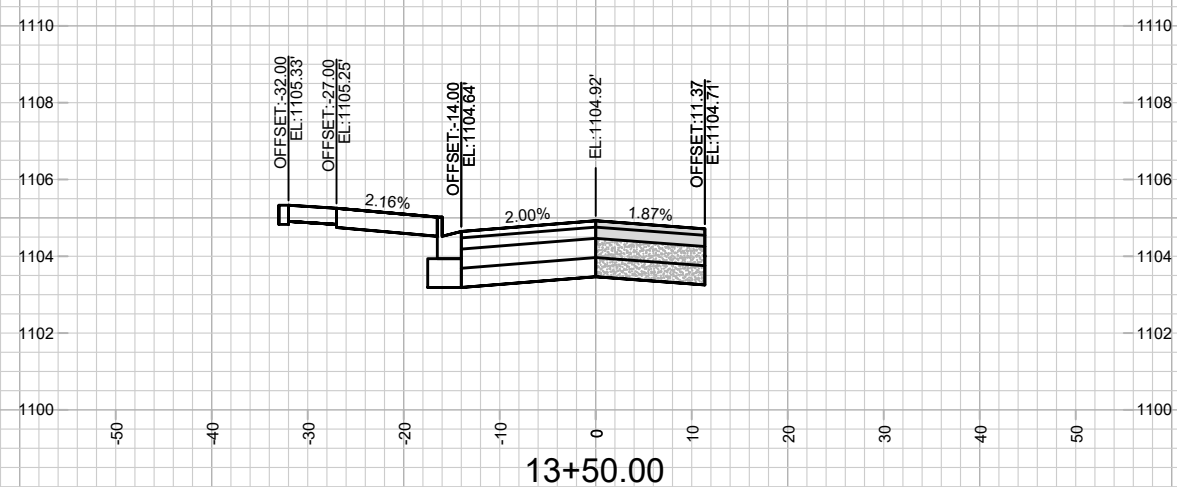
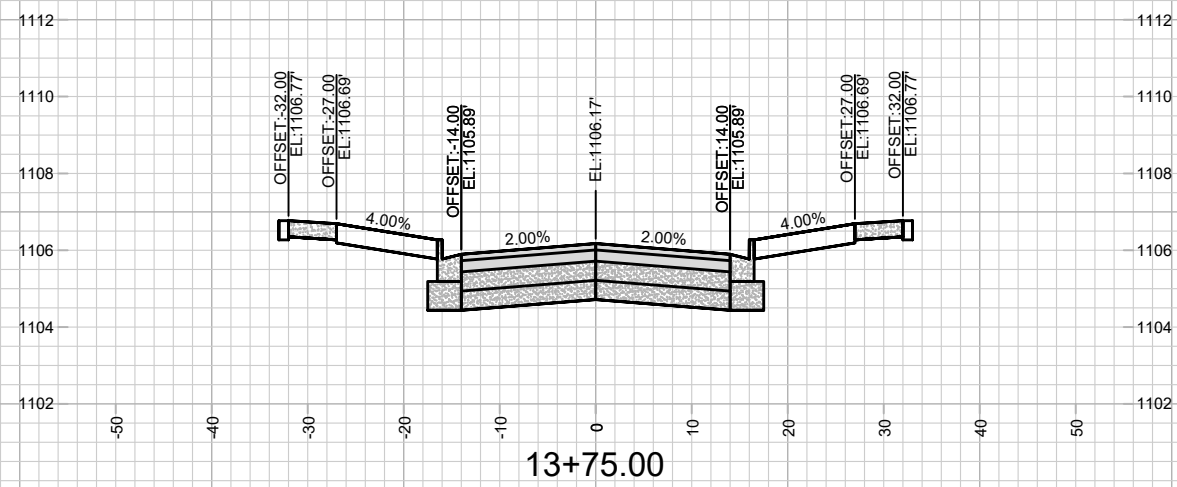
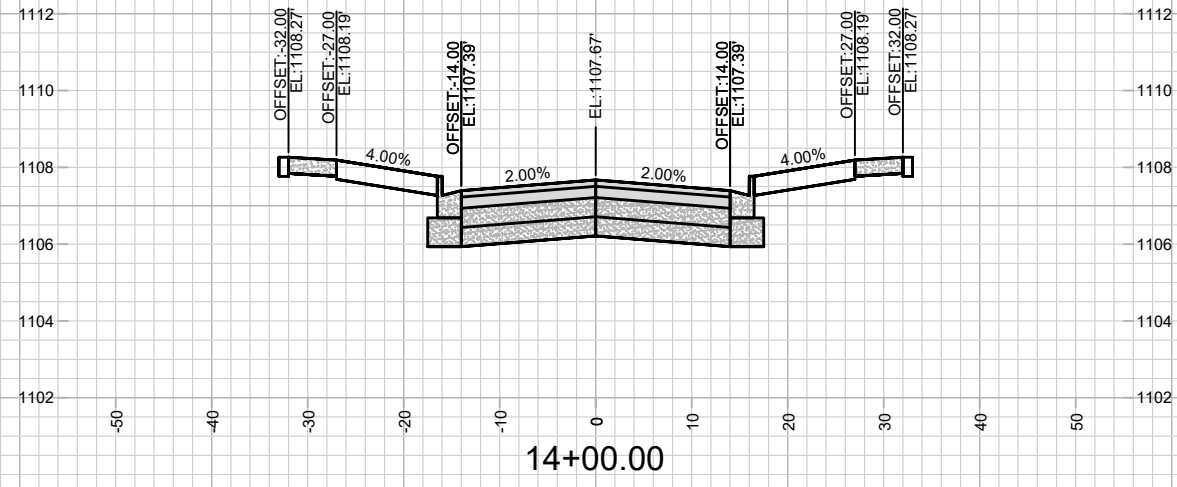
14342  
MADISON, WI  
9215  
CONTRACT NO:

CROSS SECTIONS - RUSTIC PINE ROAD  
ACACIA RIDGE - PHASE 8  
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14342  
X-4



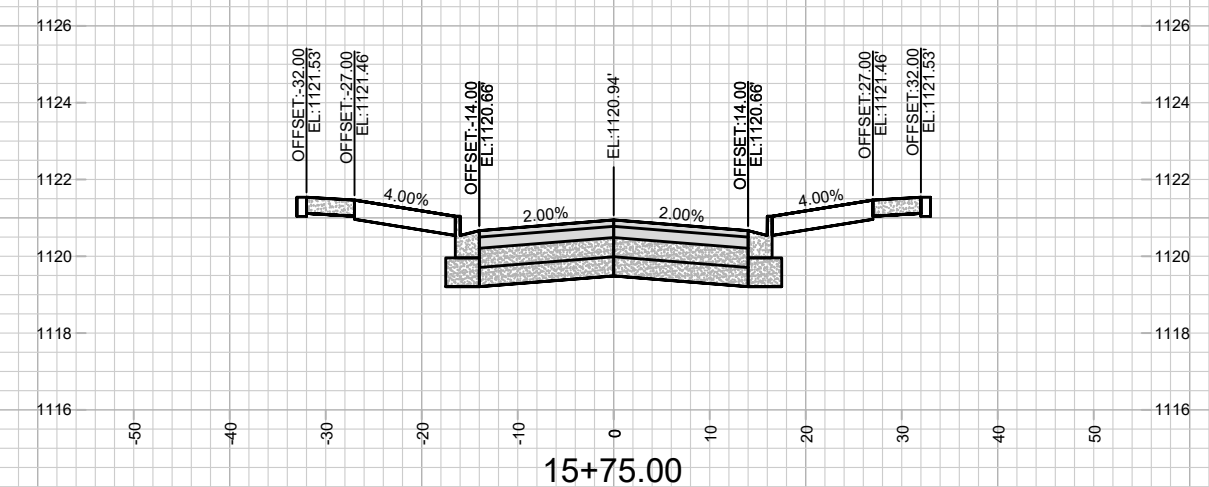
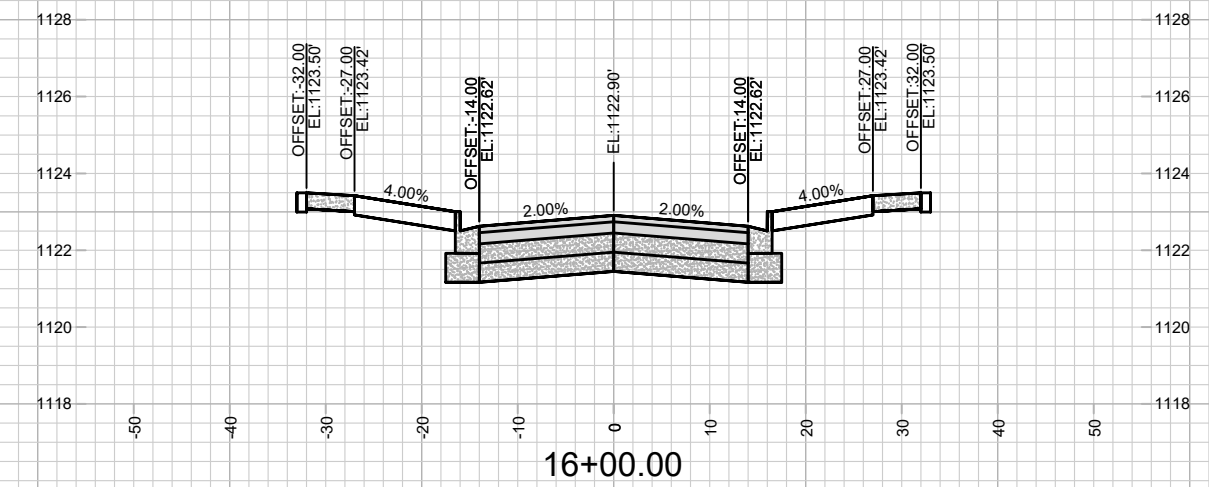
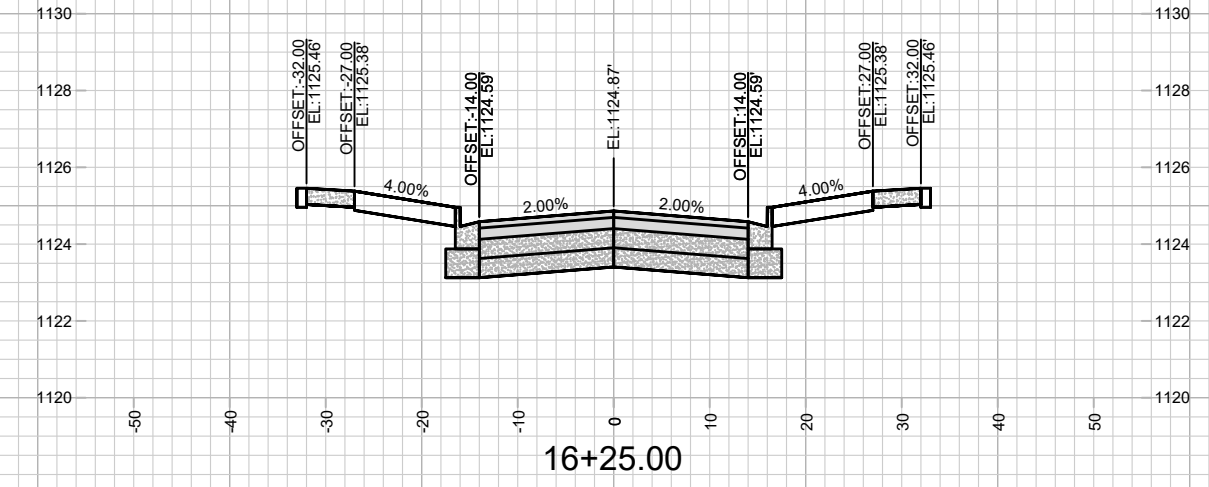
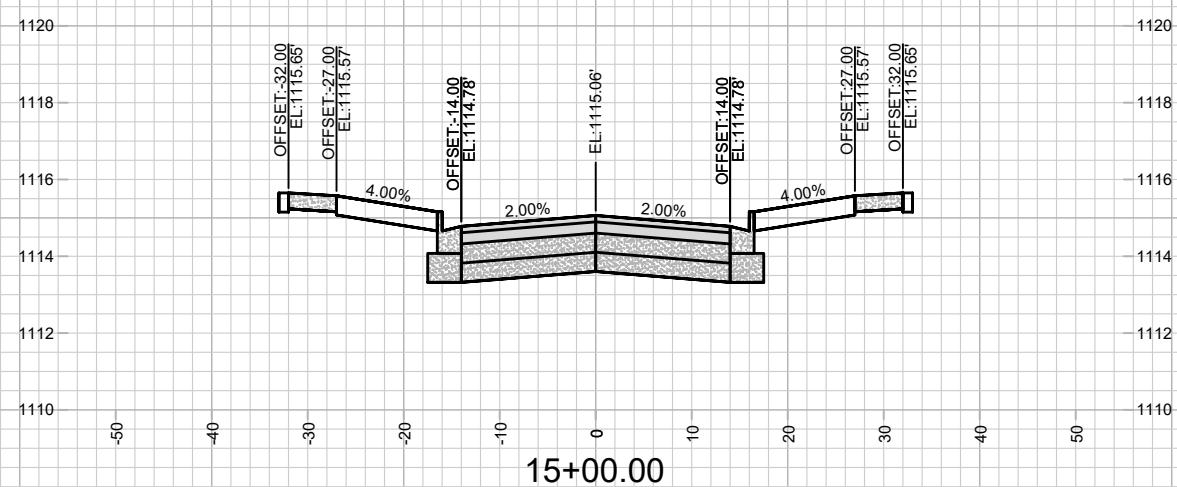
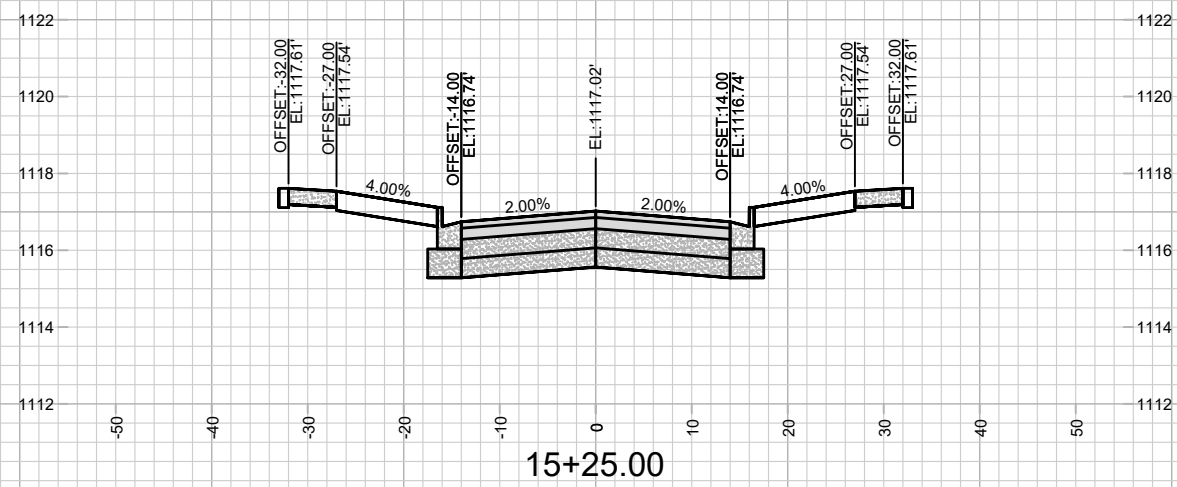
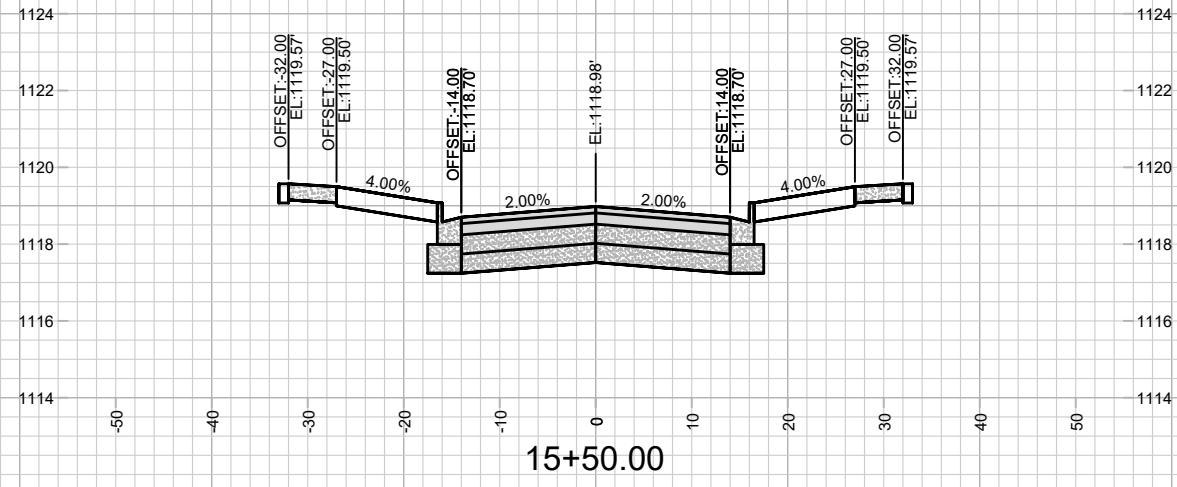


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14342  
MADISON, WI  
9215  
CONTRACT NO:

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ACACIA RIDGE - PHASE 8  
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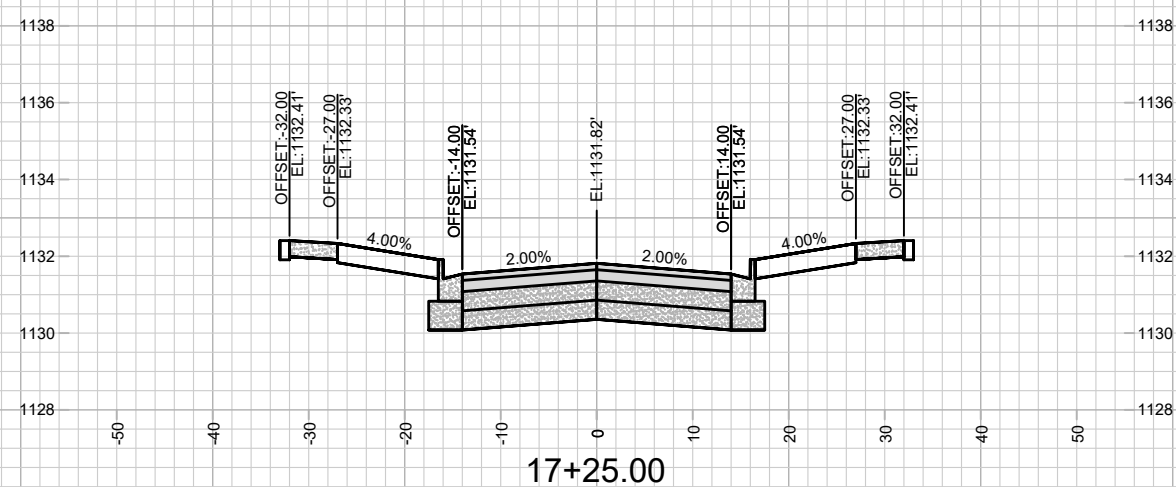
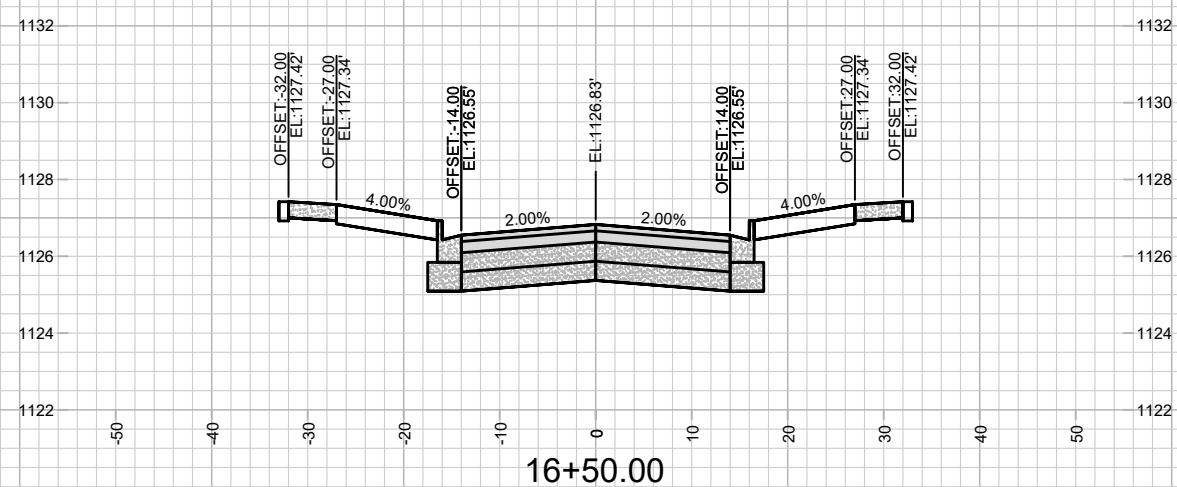
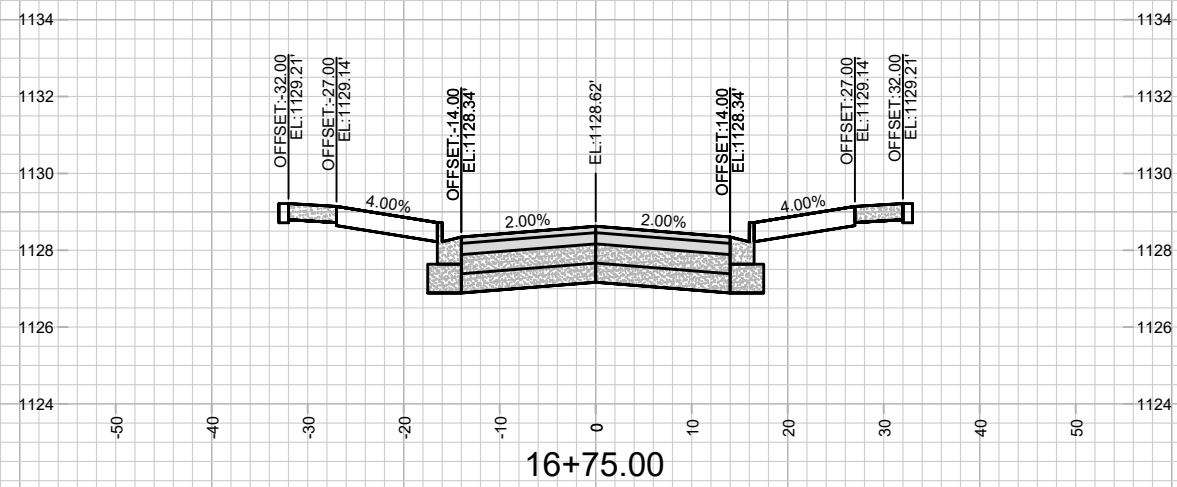
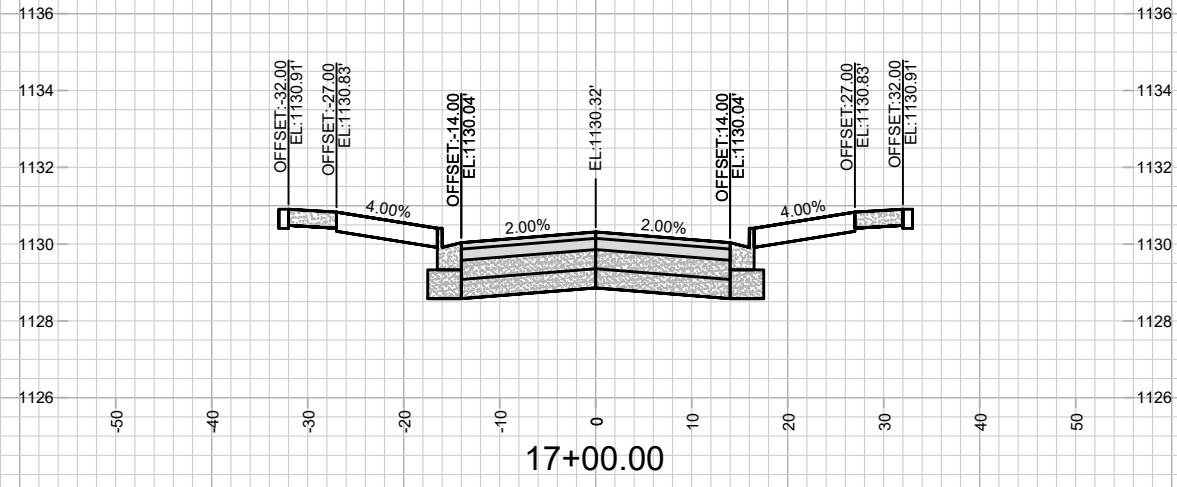


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 MADISON, WI  
 CONTRACT NO: 9215  
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 ACACIA RIDGE - PHASE 8  
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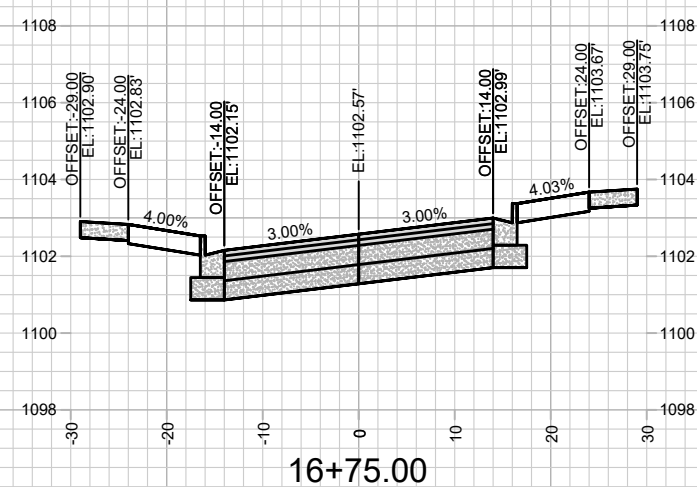
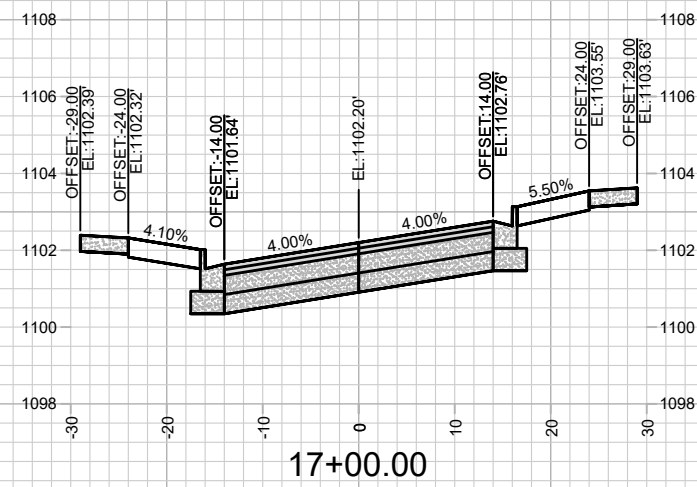
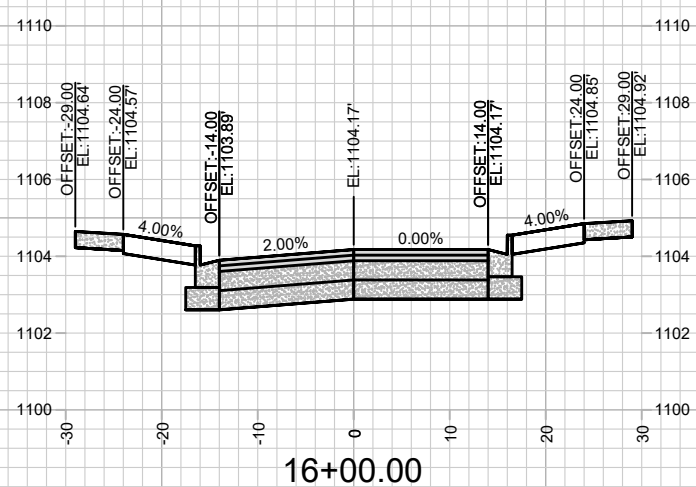
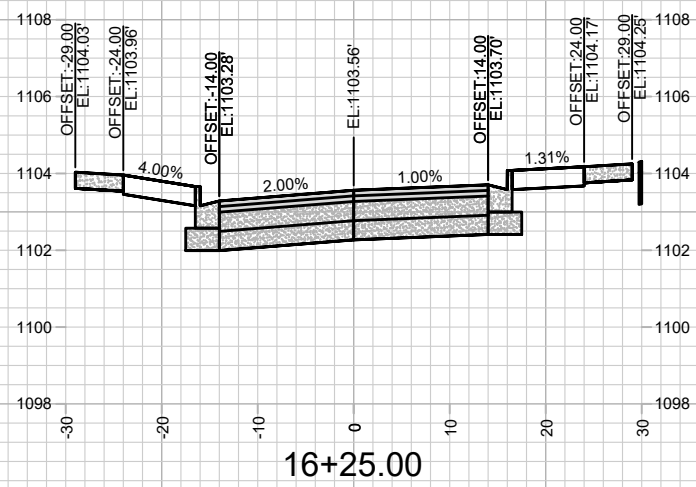
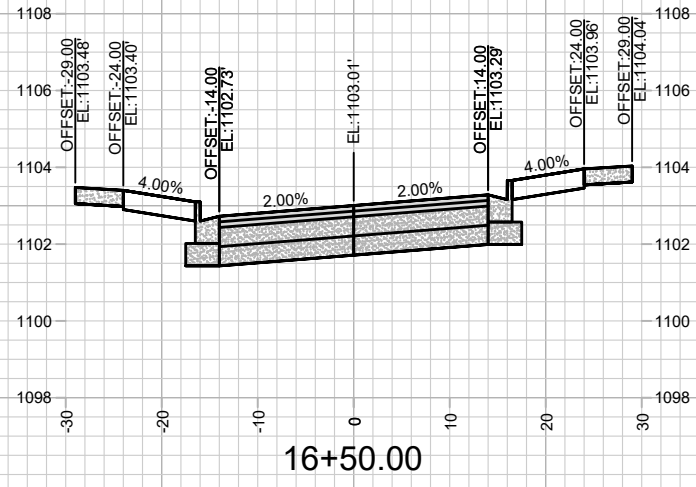
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MADISON, WI  
9215  
CONTRACT NO:

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ACACIA RIDGE - PHASE 8  
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MARK	REVISION	DATE	BY

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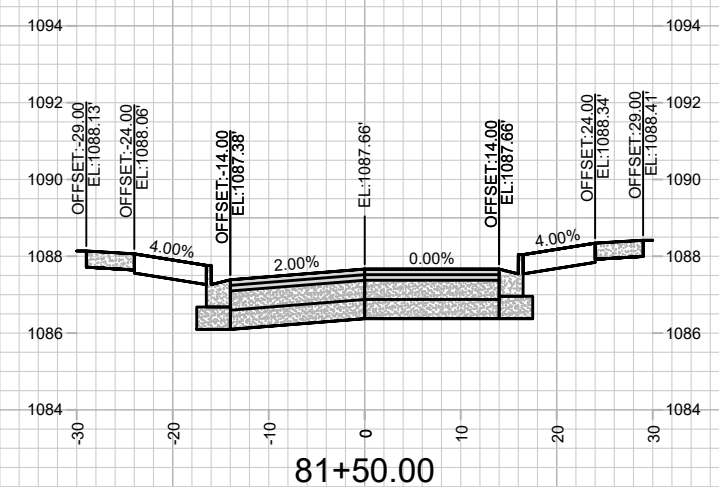
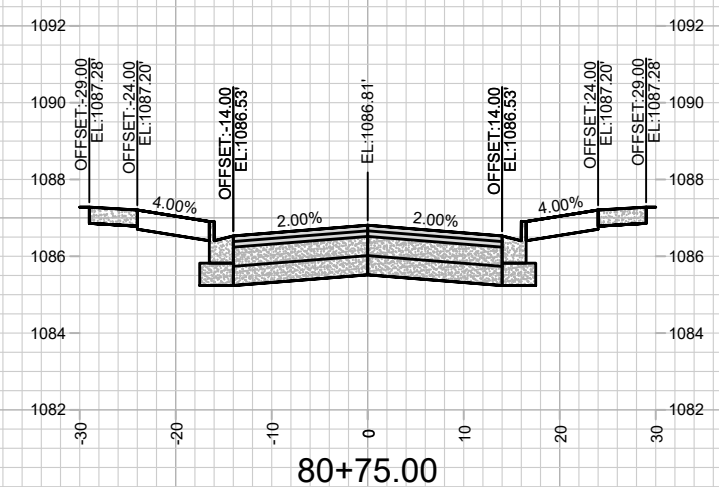
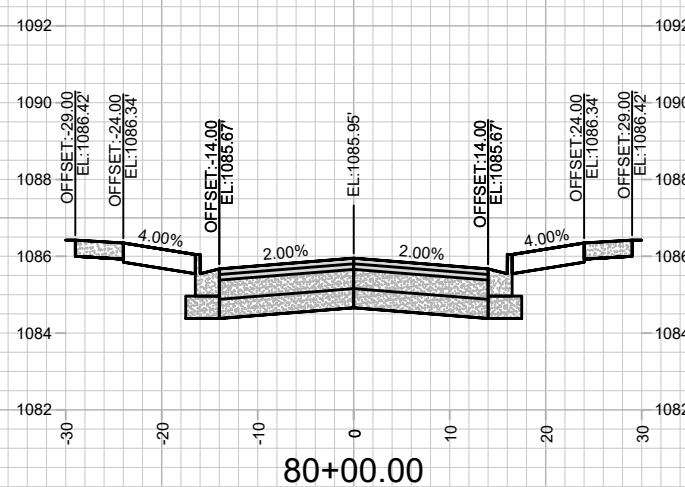
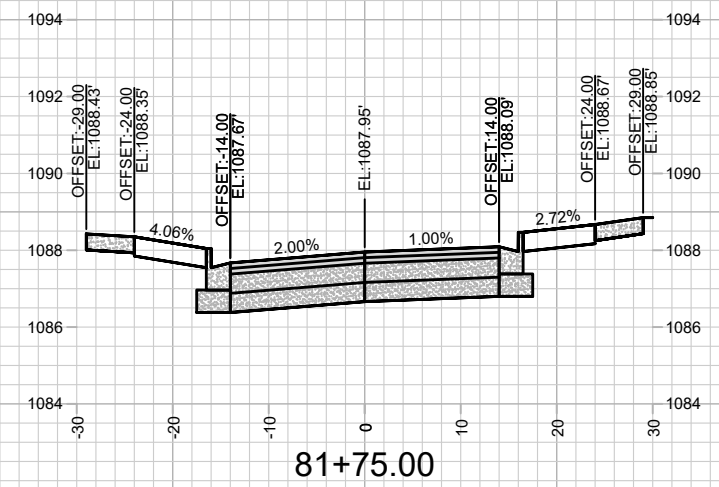
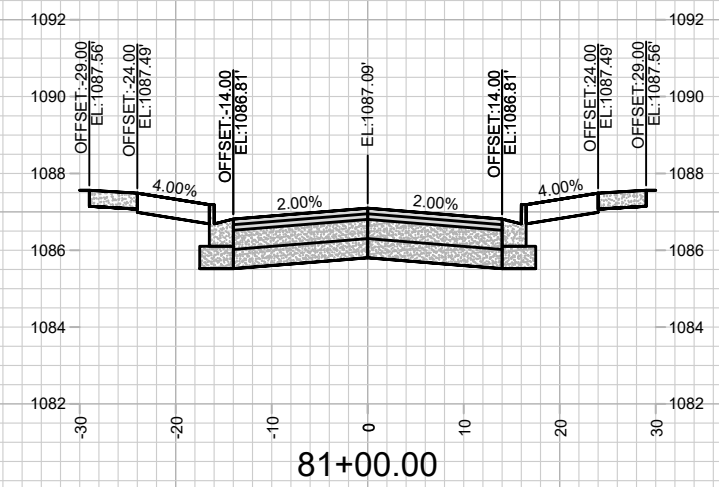
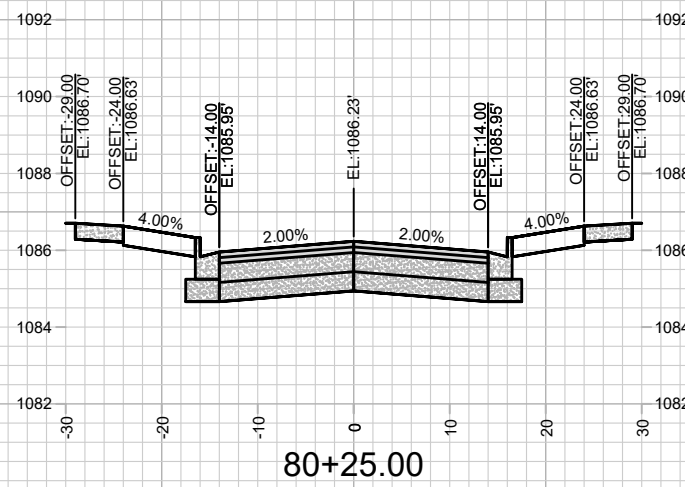
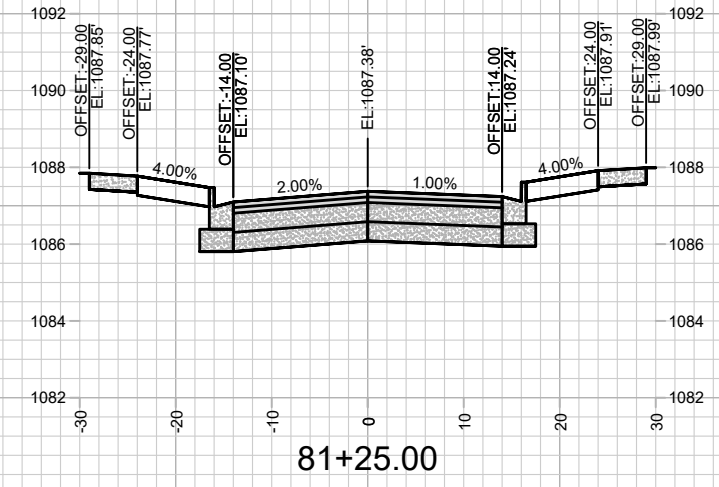
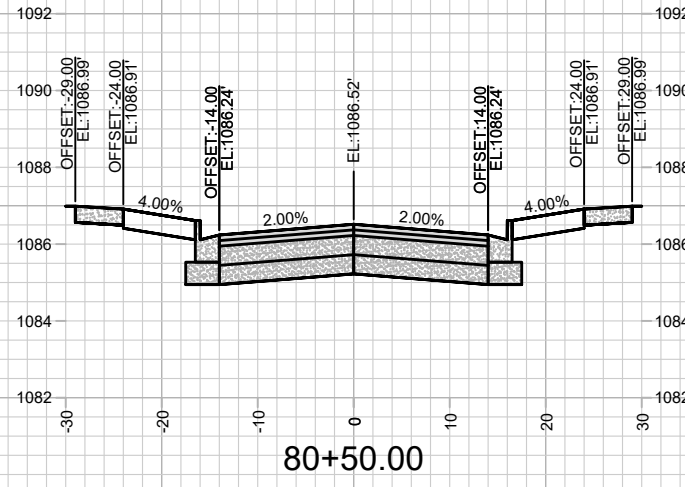
14342  
MADISON, WI  
9215  
CONTRACT NO:

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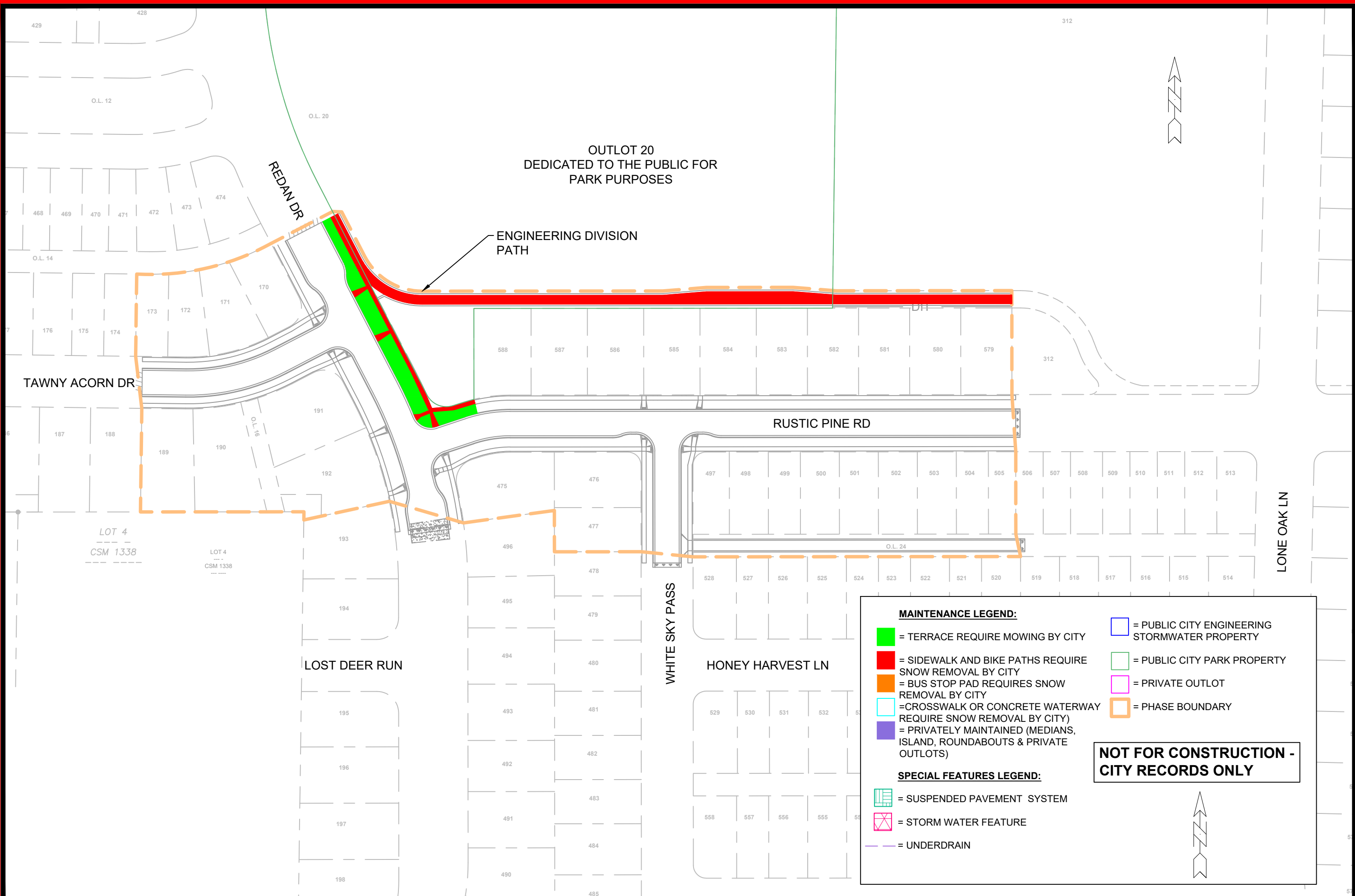
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14342  
MADISON, WI  
9215  
CONTRACT NO:

CROSS SECTIONS - TAWNY ACORN DRIVE  
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14342  
X-10



OUTLOT 20  
DEDICATED TO THE PUBLIC FOR  
PARK PURPOSES

ENGINEERING DIVISION  
PATH

**MAINTENANCE LEGEND:**

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

**SPECIAL FEATURES LEGEND:**

- = SUSPENDED PAVEMENT SYSTEM
- = STORM WATER FEATURE
- = UNDERDRAIN

**NOT FOR CONSTRUCTION -  
CITY RECORDS ONLY**

MARK	REVISION	DATE	BY

14342  
MADISON, WI  
9215  
CONTRACT NO:

MAINTENANCE PLAN  
ACACIA RIDGE - PHASE 8  
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14342  
MN-1