

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

#### PLAN OF PROPOSED IMPROVEMENT

#### WESTVIEW HILLS SEWER AND WATER

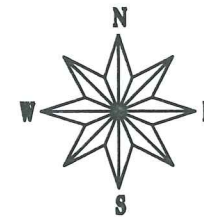
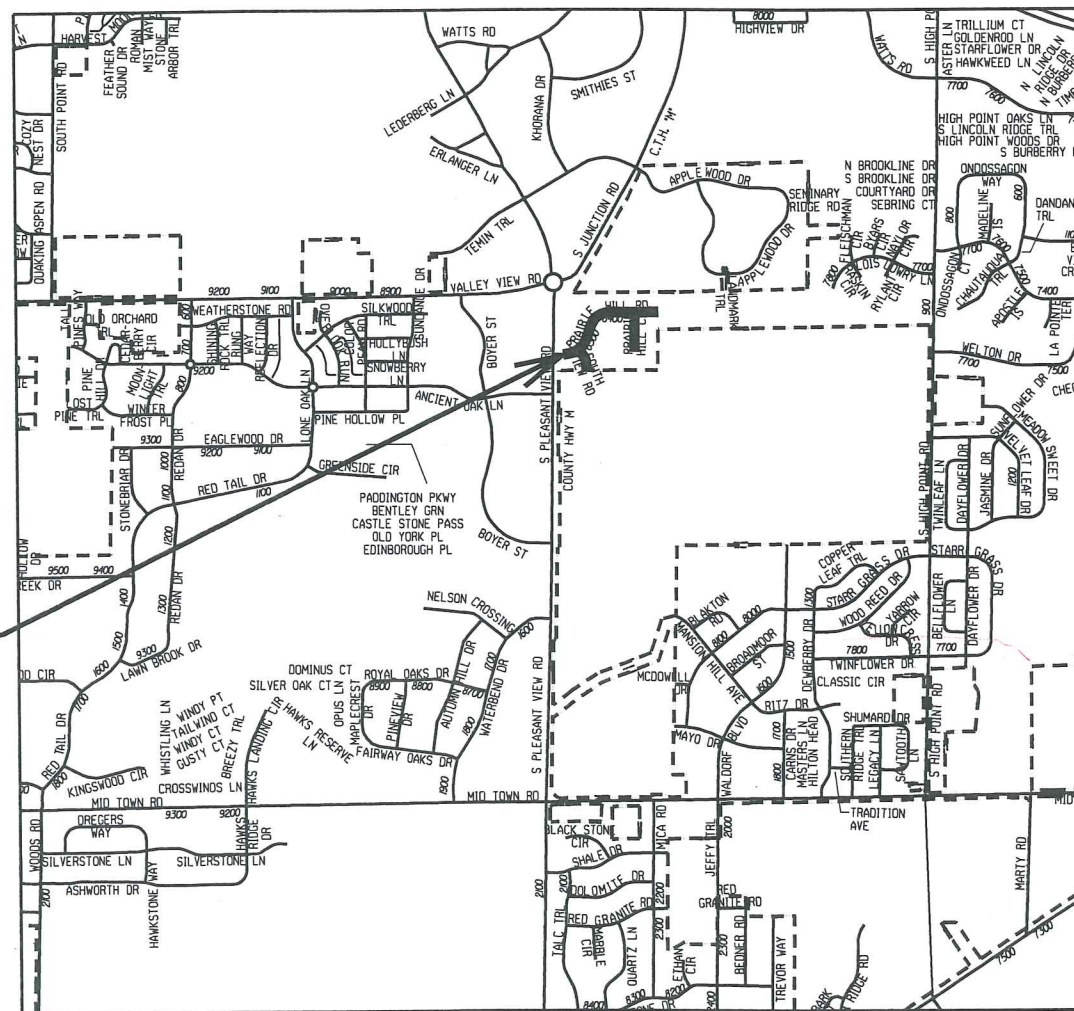
#### ASSESSMENT DISTRICT 2018

MUNIS NO. 11767  
CONTRACT NO. 8184

#### INDEX OF SHEETS

SHEET NO.	TITLE
SHEET NO. 1	TITLE
SHEET NO. D1	TYPICAL SECTIONS AND DETAILS
SHEET NO. EC1-EC5	EROSION CONTROL PLANS
SHEET NO. P1-P3	PRAIRIE HILL ROAD PLAN & PROFILES
SHEET NO. P4	SOUTH VIEW ROAD PLAN & PROFILES
SHEET NO. P5	PRAIRIE HILL COURT PLAN & PROFILES
SHEET NO. U1-U3	PRAIRIE HILL ROAD SEWER PLAN & PROFILES
SHEET NO. U4	SOUTH VIEW ROAD SEWER PLAN & PROFILES
SHEET NO. U5	PRAIRIE HILL COURT SEWER PLAN & PROFILES
SHEET NO. U6	SANITARY SEWER SCHEDULE
SHEET NO. U7	STORM SEWER SCHEDULE
SHEET NO. W1-W3	PRAIRIE HILL ROAD WATER PLAN & PROFILES
SHEET NO. W4	SOUTH VIEW ROAD WATER PLAN & PROFILES
SHEET NO. W5	PRAIRIE HILL COURT WATER PLAN & PROFILES
SHEET NO. W6	WATER ESTIMATE OF MATERIALS/DETAILS
SHEET NO. X1-X10	PRAIRIE HILL ROAD CROSS SECTIONS
SHEET NO. X11-X12	SOUTH VIEW ROAD CROSS SECTIONS
SHEET NO. X13-X16	PRAIRIE HILL COURT CROSS SECTIONS

### PROJECT LOCATION



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

#### NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

EARTH WORK SUMMARY:  
EXCAVATION CUT (MEASURED PLAN QUANTITY).....2064 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT.....262 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT.....2326 C.Y.

PUBLIC IMPROVEMENT PROJECT APPROVED

MAY 15, 2018

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 6/15/18  
City Engineer Date

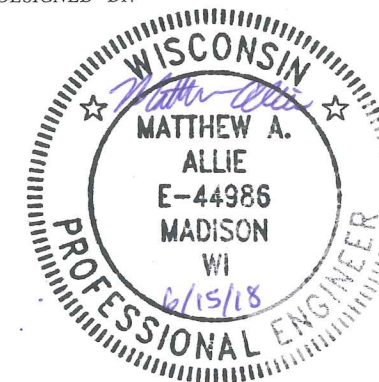
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DESIGNED BY:



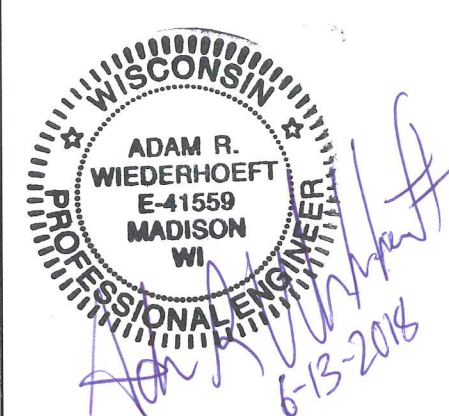
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DESIGNED BY:

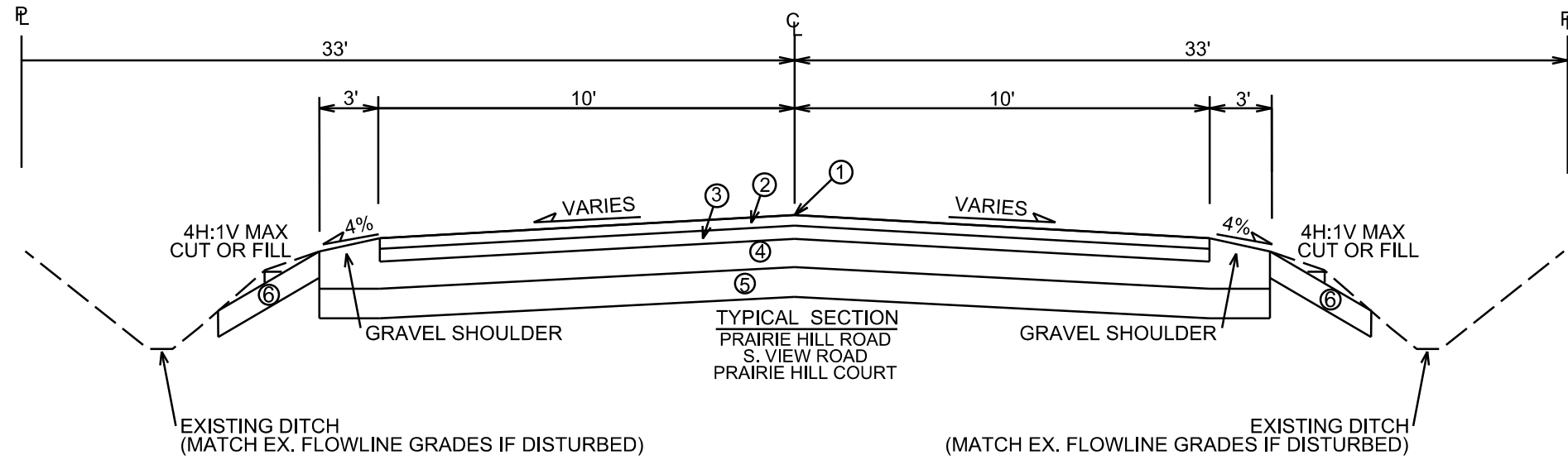


STORM SEWER  
DESIGNED BY:



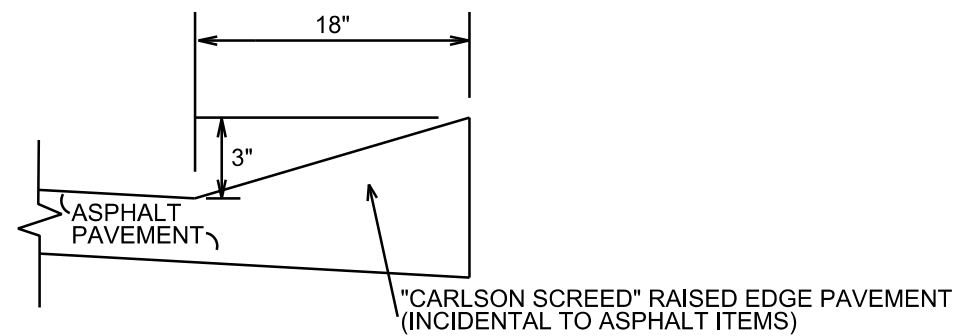
WATER MAIN  
DESIGNED BY:





- ① POINT REFERRED TO ON PROFILE
- ② 1.75" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 1.75" BITUMINOUS LOWER LAYER, 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ 6" TOPSOIL, SEED & MAT

TYPICAL SECTIONS NOT TO SCALE



NOTE: TO BE USED FROM STA 2+65 TO STA 3+30 ONLY, OR AS DIRECTED BY CONSTRUCTION ENGINEER. SEE PLANS FOR LOCATION.

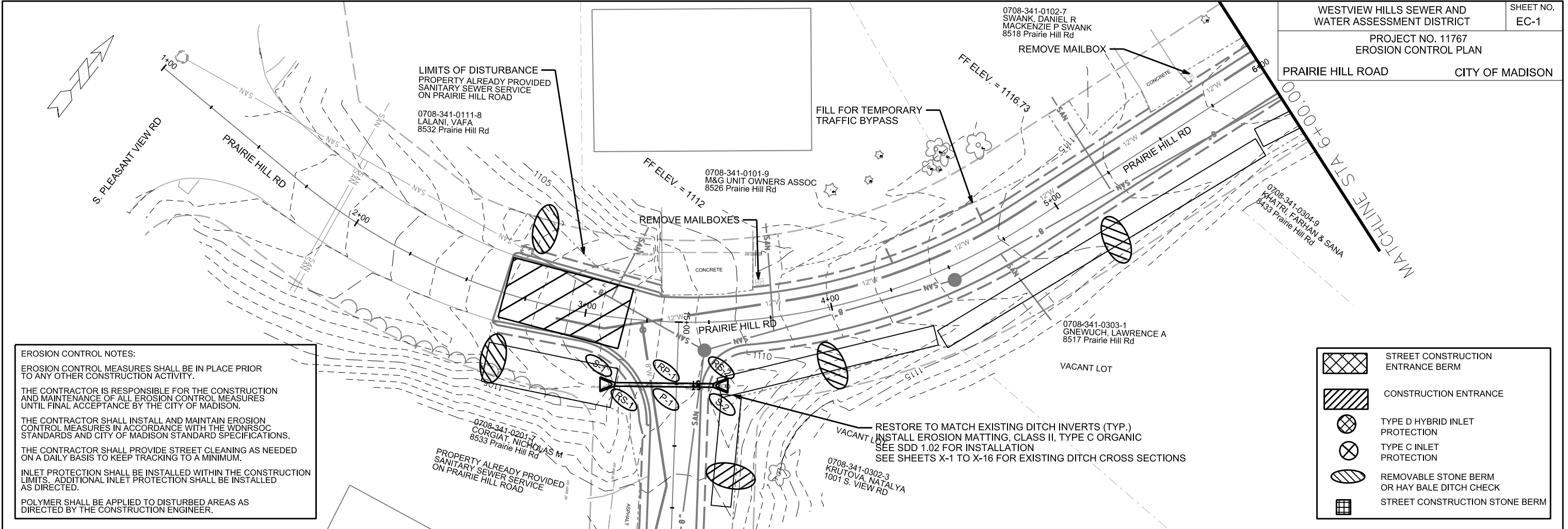
CARLSON CURB DETAIL  
PRAIRIE HILL ROAD

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

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

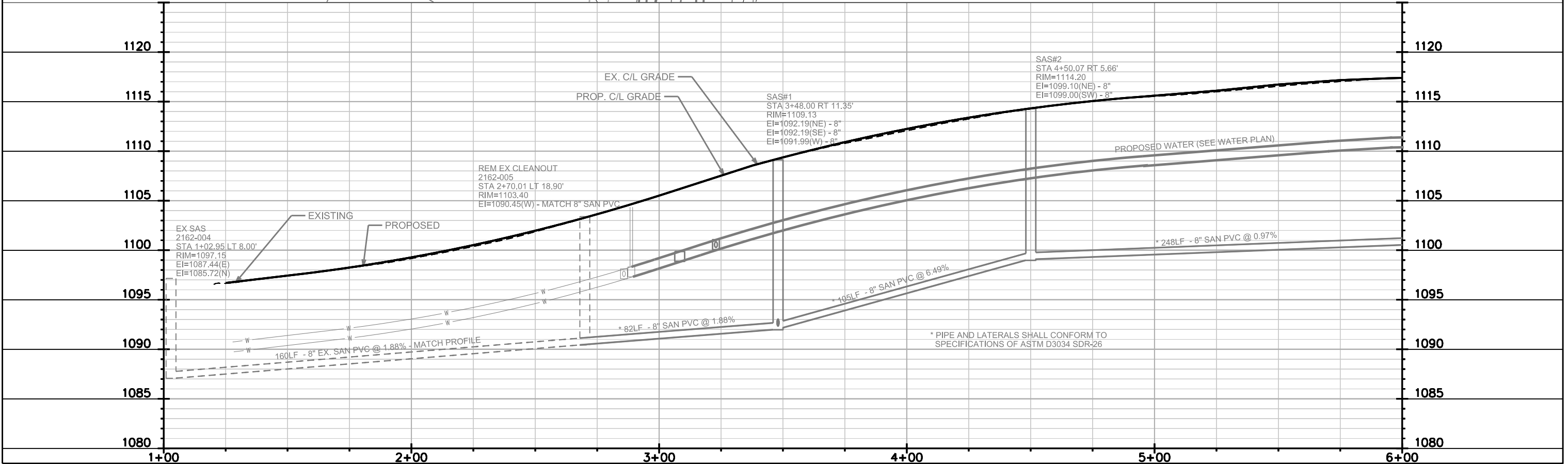
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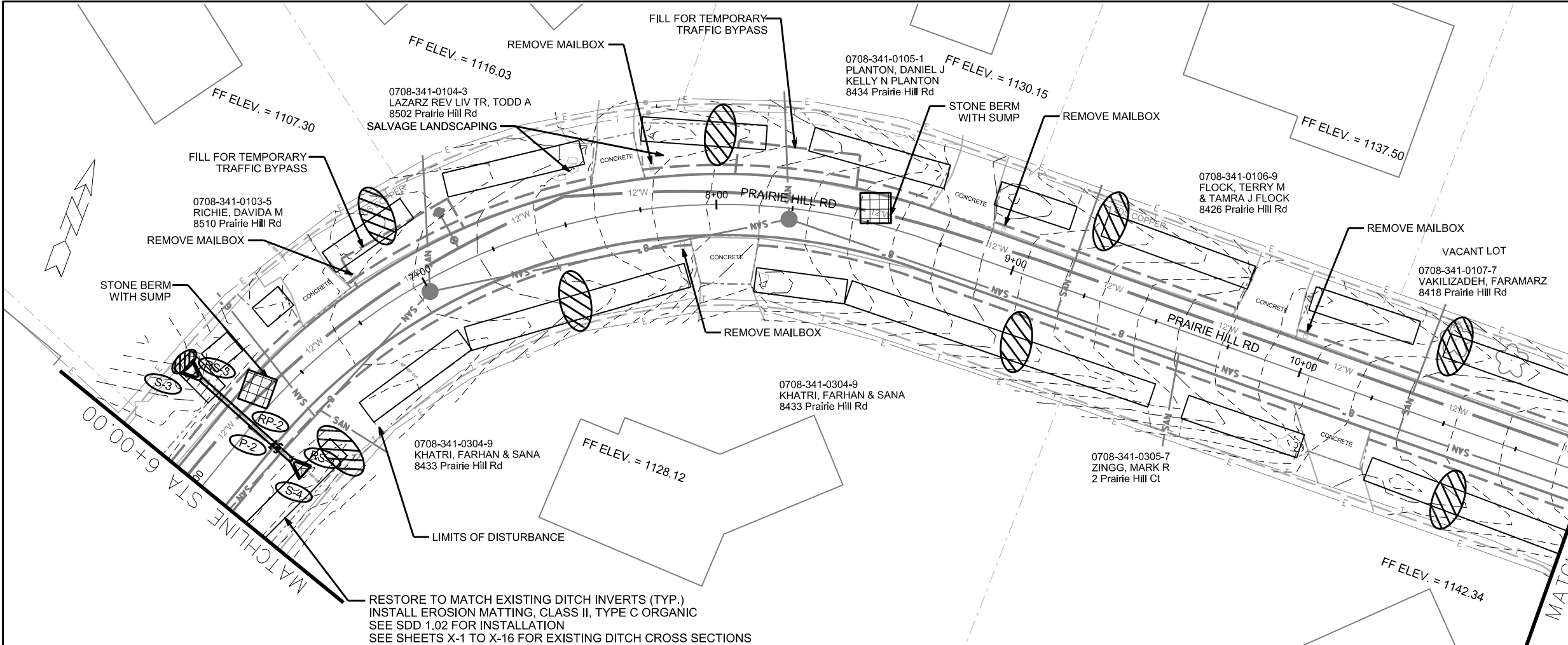
**EROSION CONTROL NOTES:**  
 EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.  
 THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.  
 THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.  
 THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.  
 INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.  
 POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- REMOVABLE STONE BERM OR HAY BALE DITCH CHECK
- STREET CONSTRUCTION STONE BERM



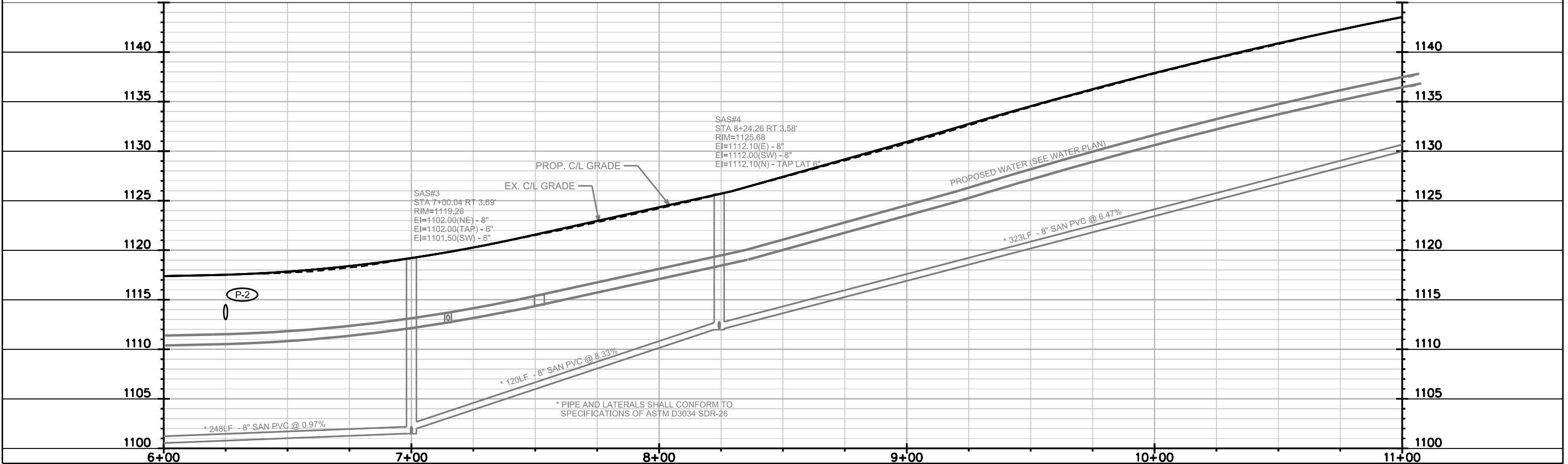
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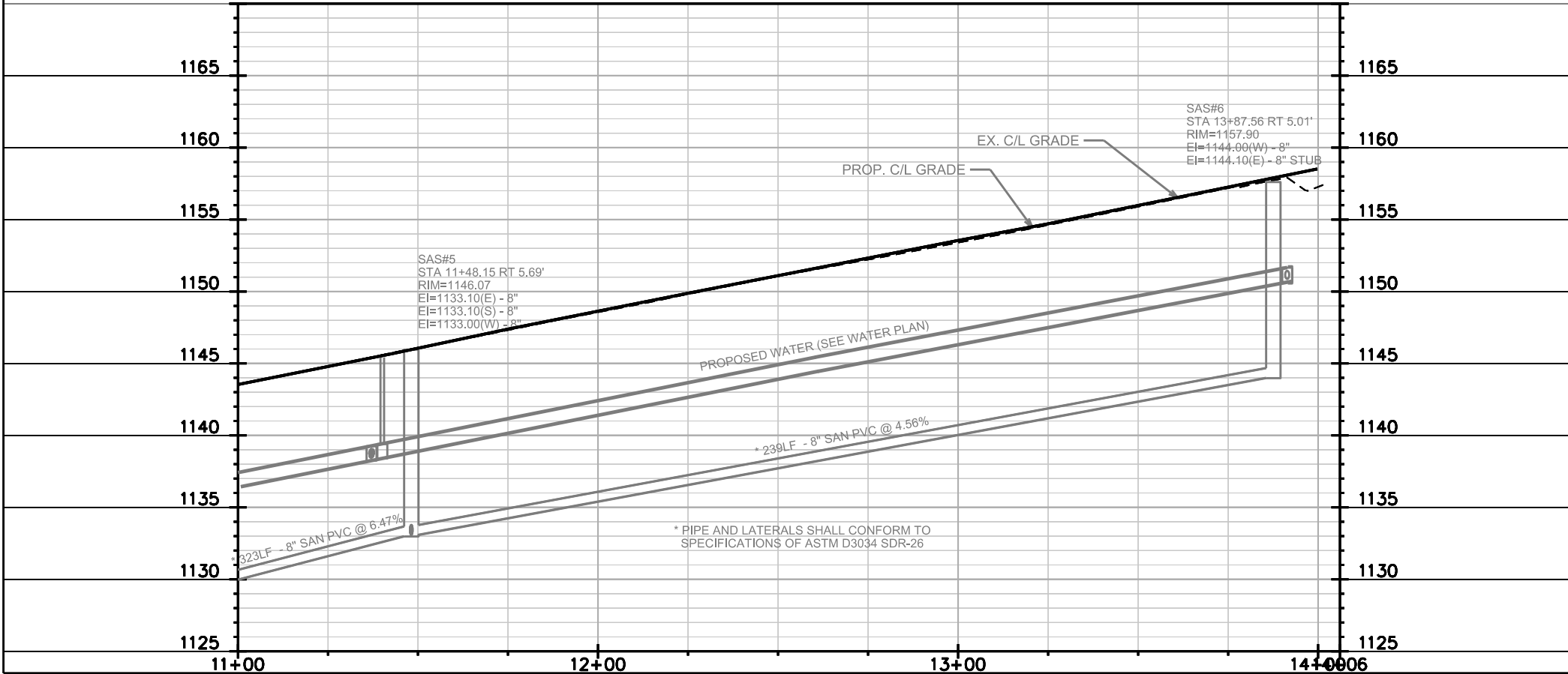
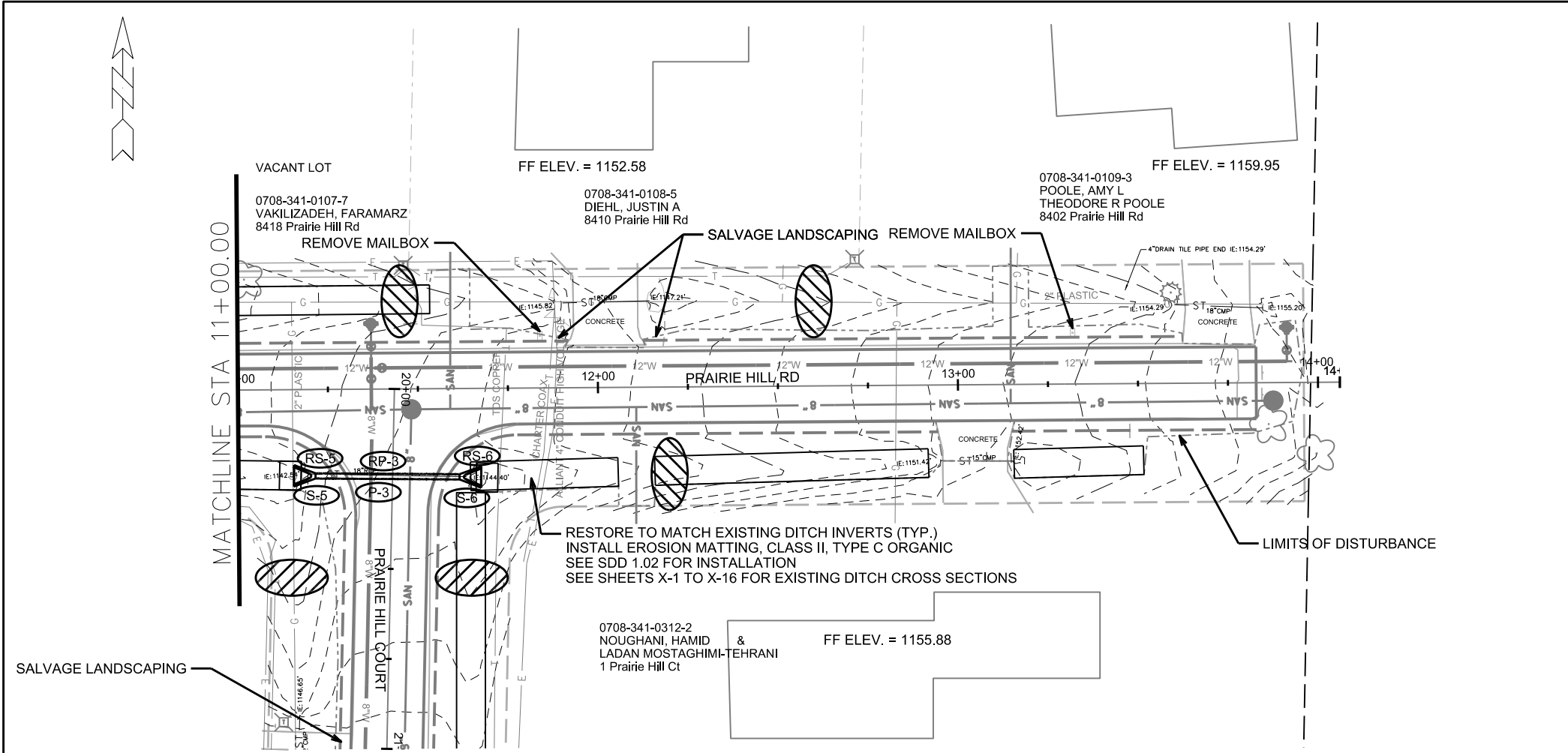
RESTORE TO MATCH EXISTING DITCH INVERTS (TYP.)  
 INSTALL EROSION MATTING, CLASS II, TYPE C ORGANIC  
 SEE SDD 1.02 FOR INSTALLATION  
 SEE SHEETS X-1 TO X-16 FOR EXISTING DITCH CROSS SECTIONS



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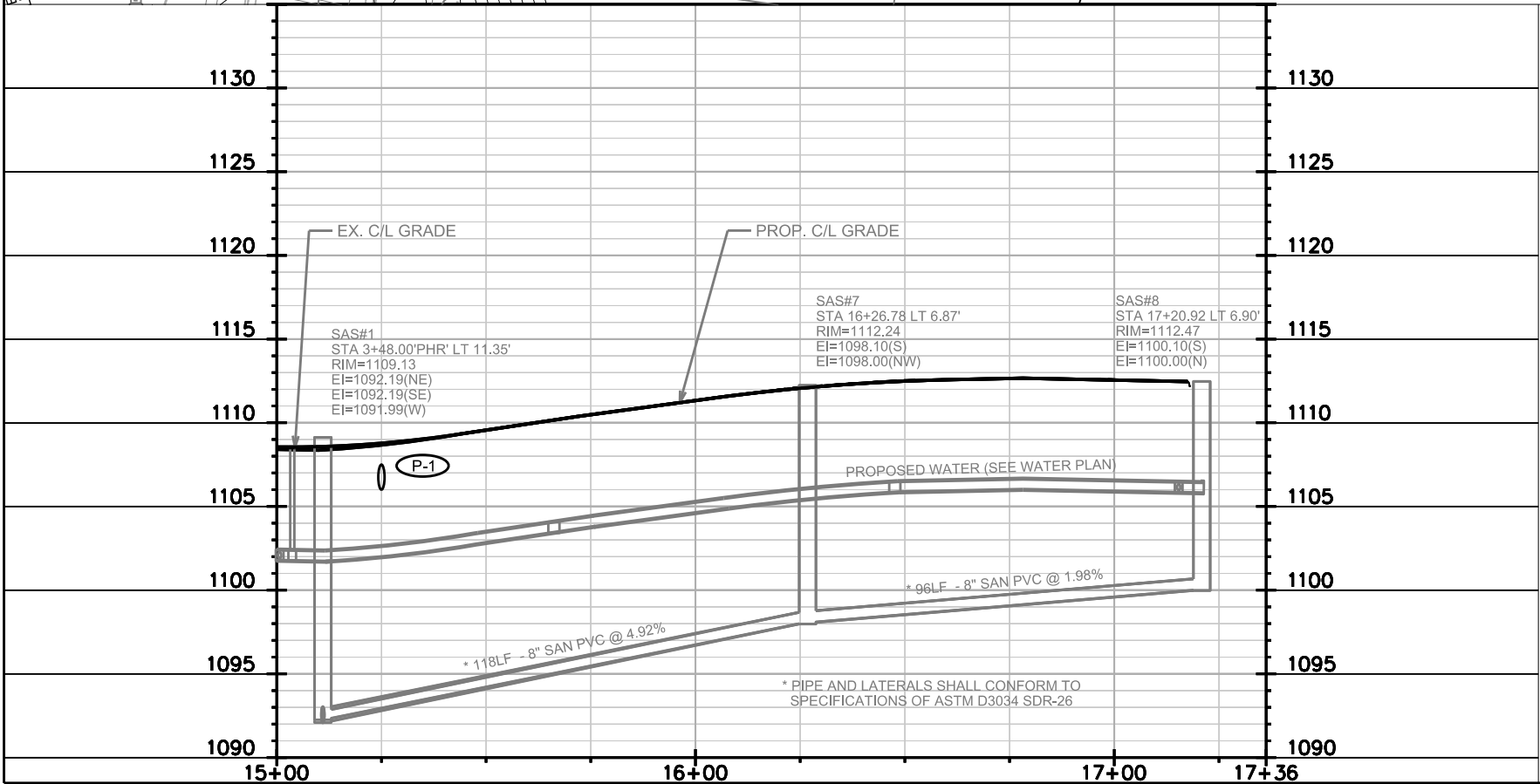
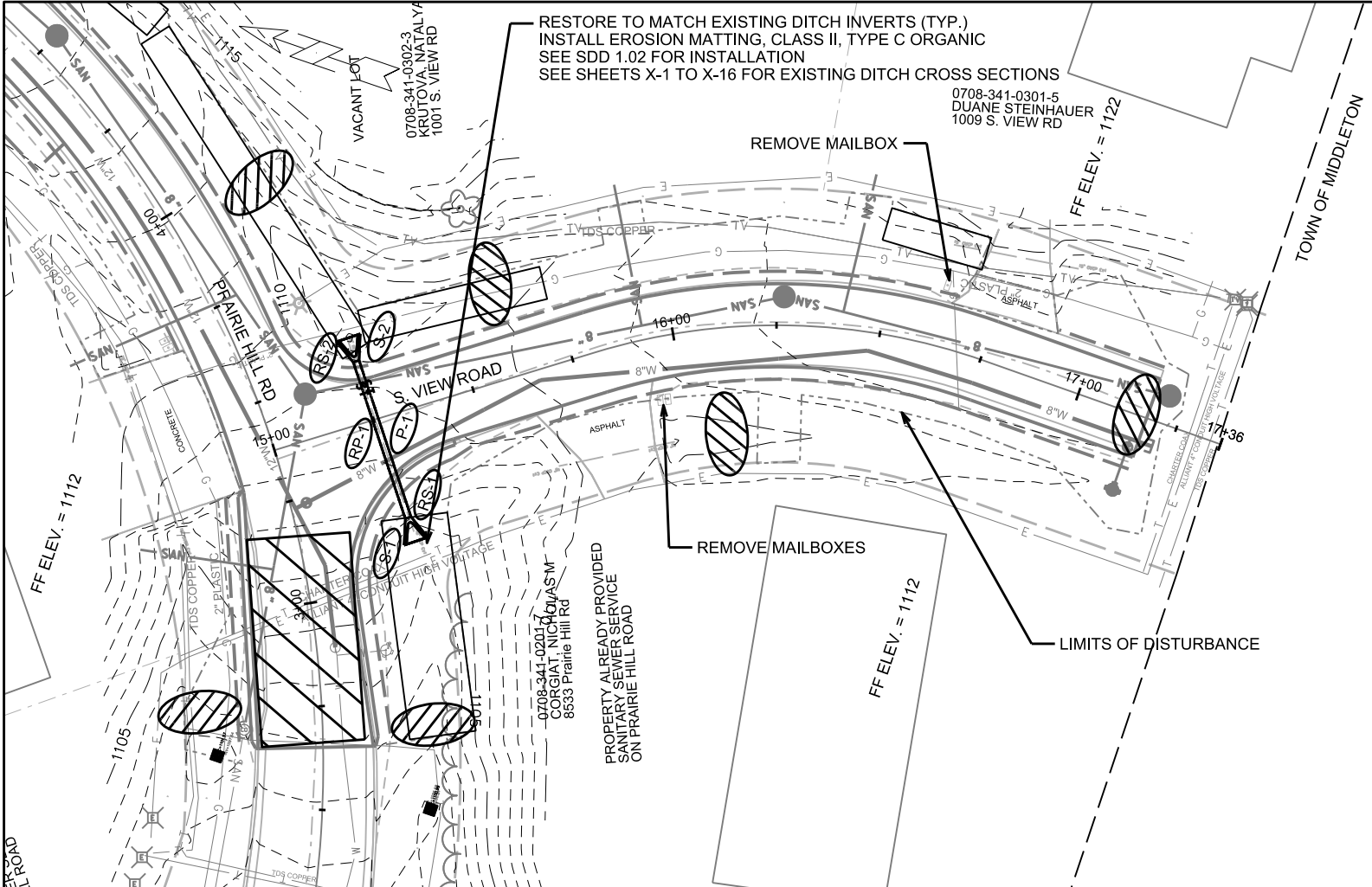
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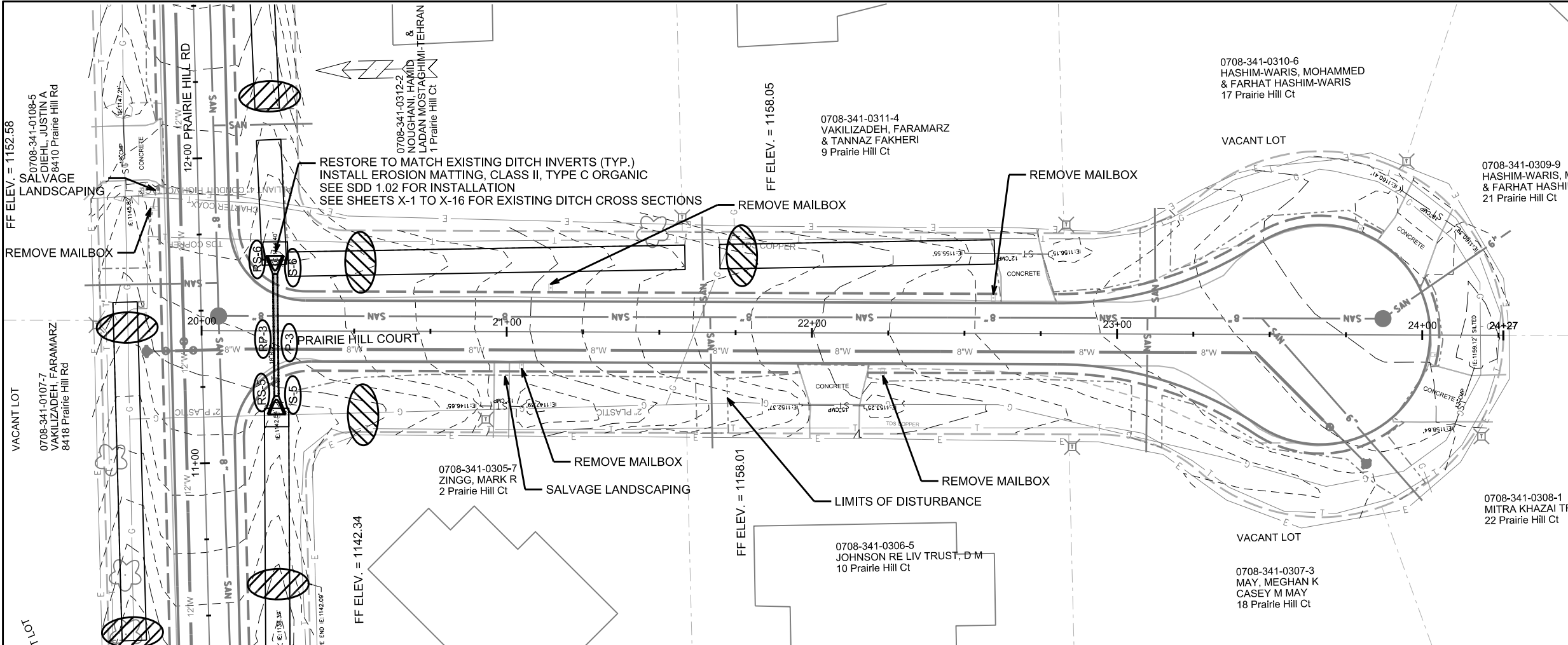


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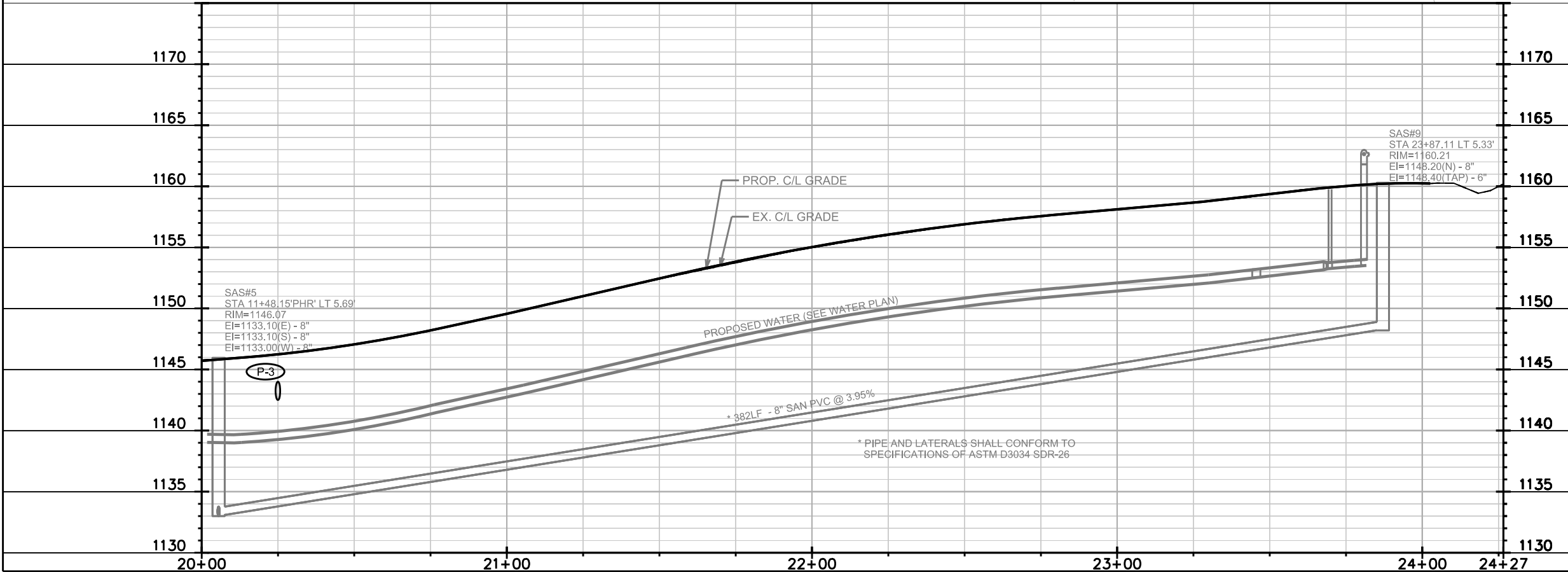
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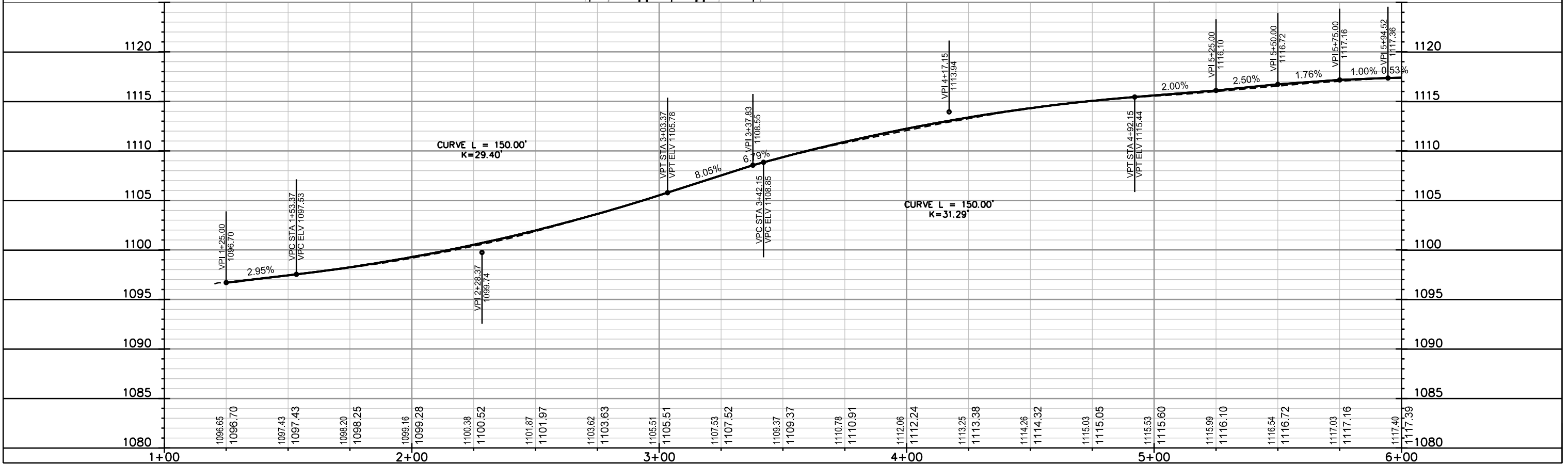
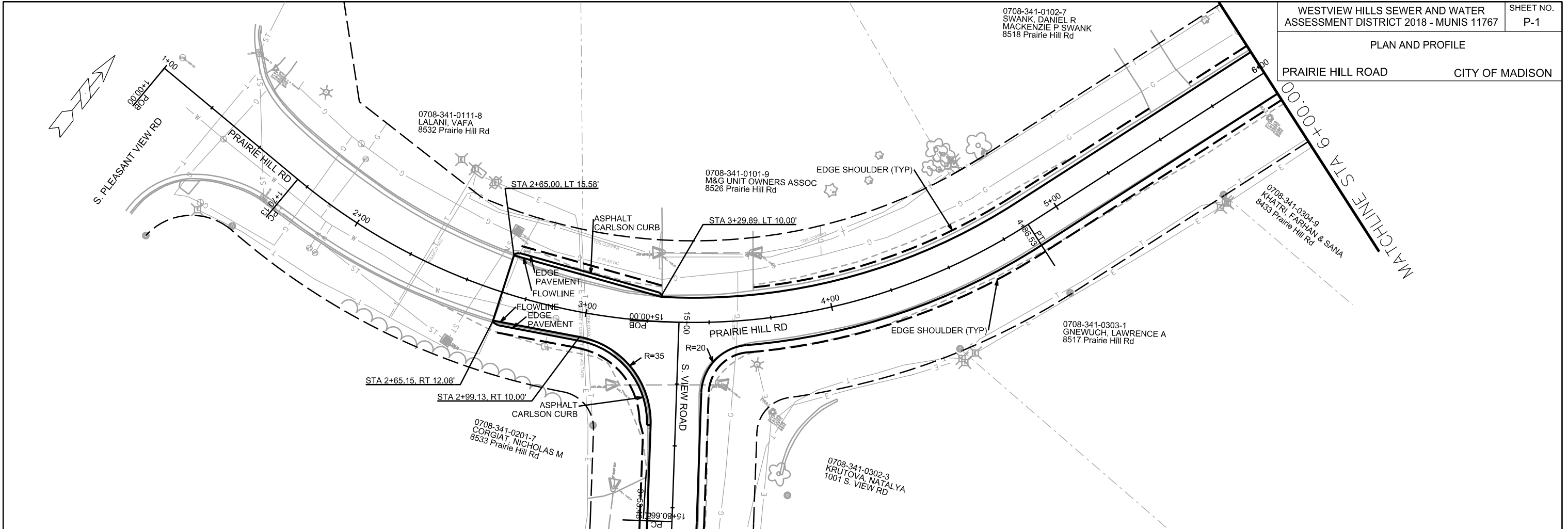


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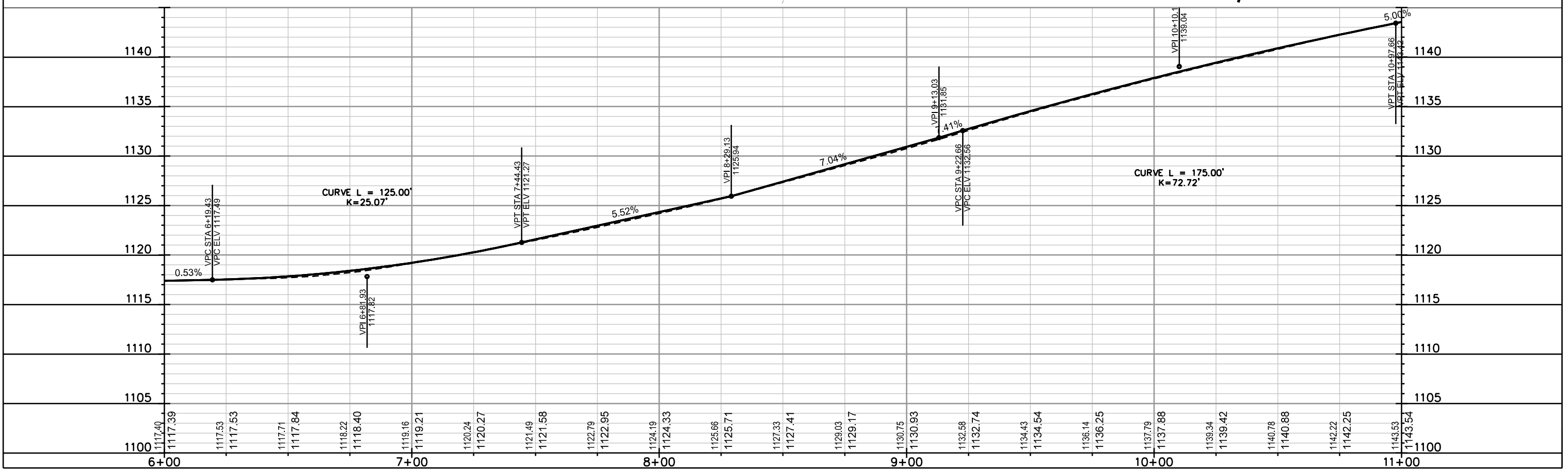
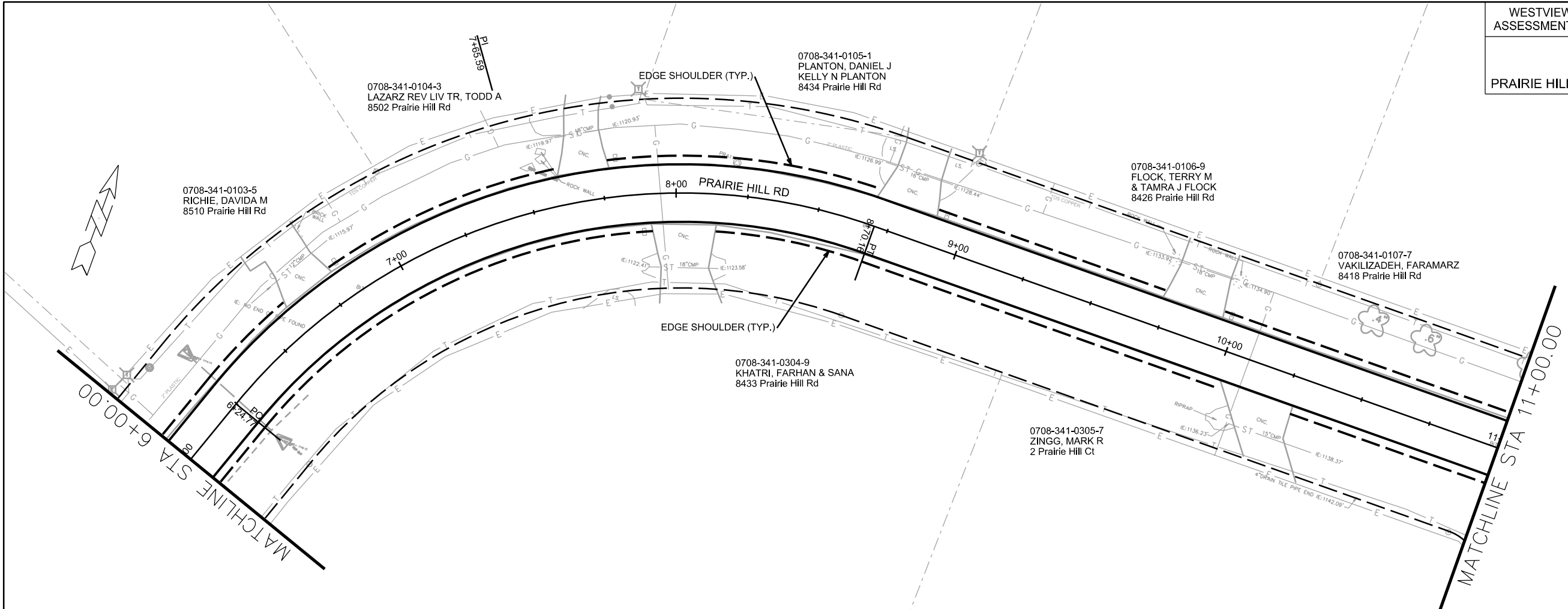
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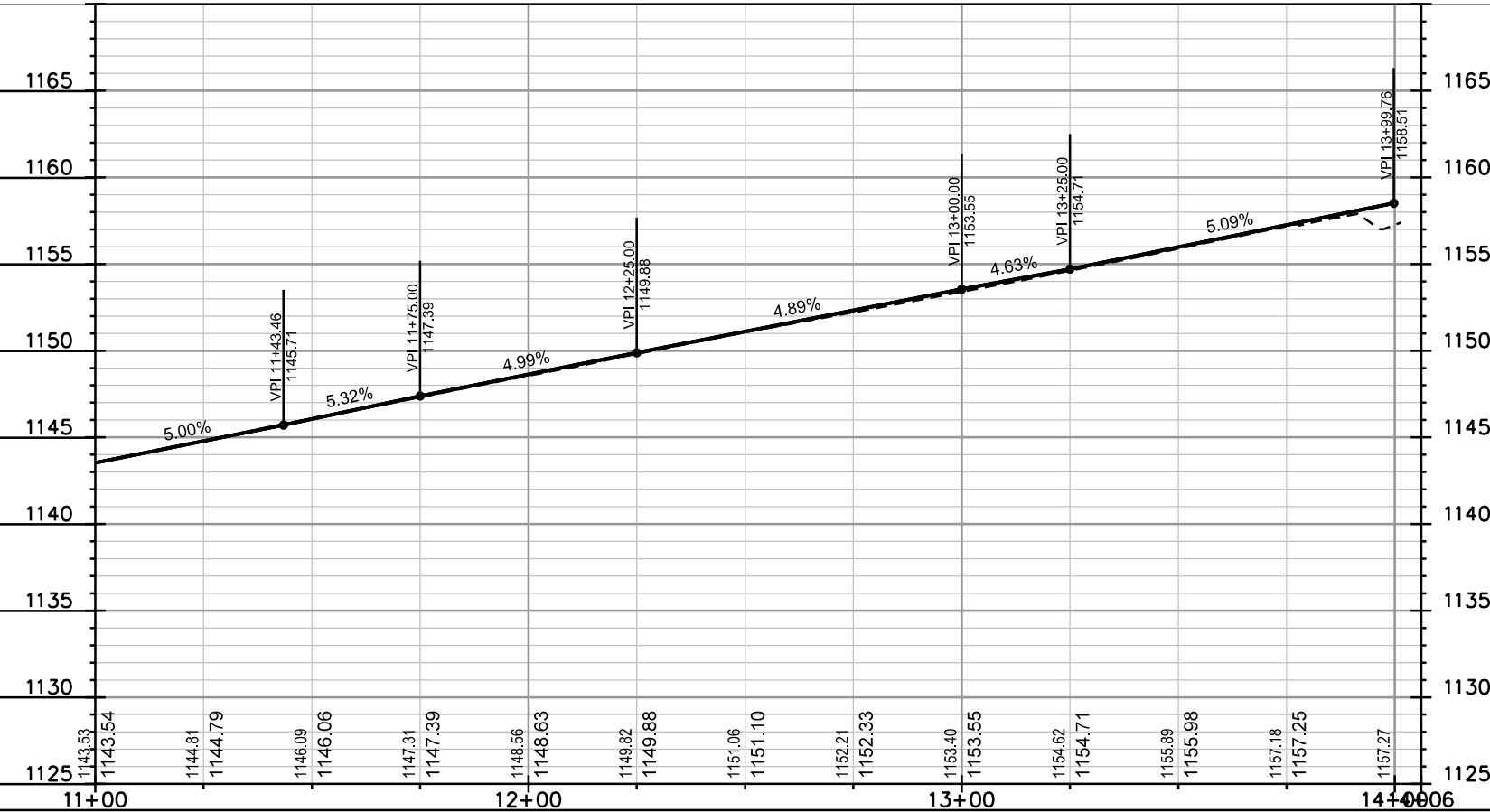
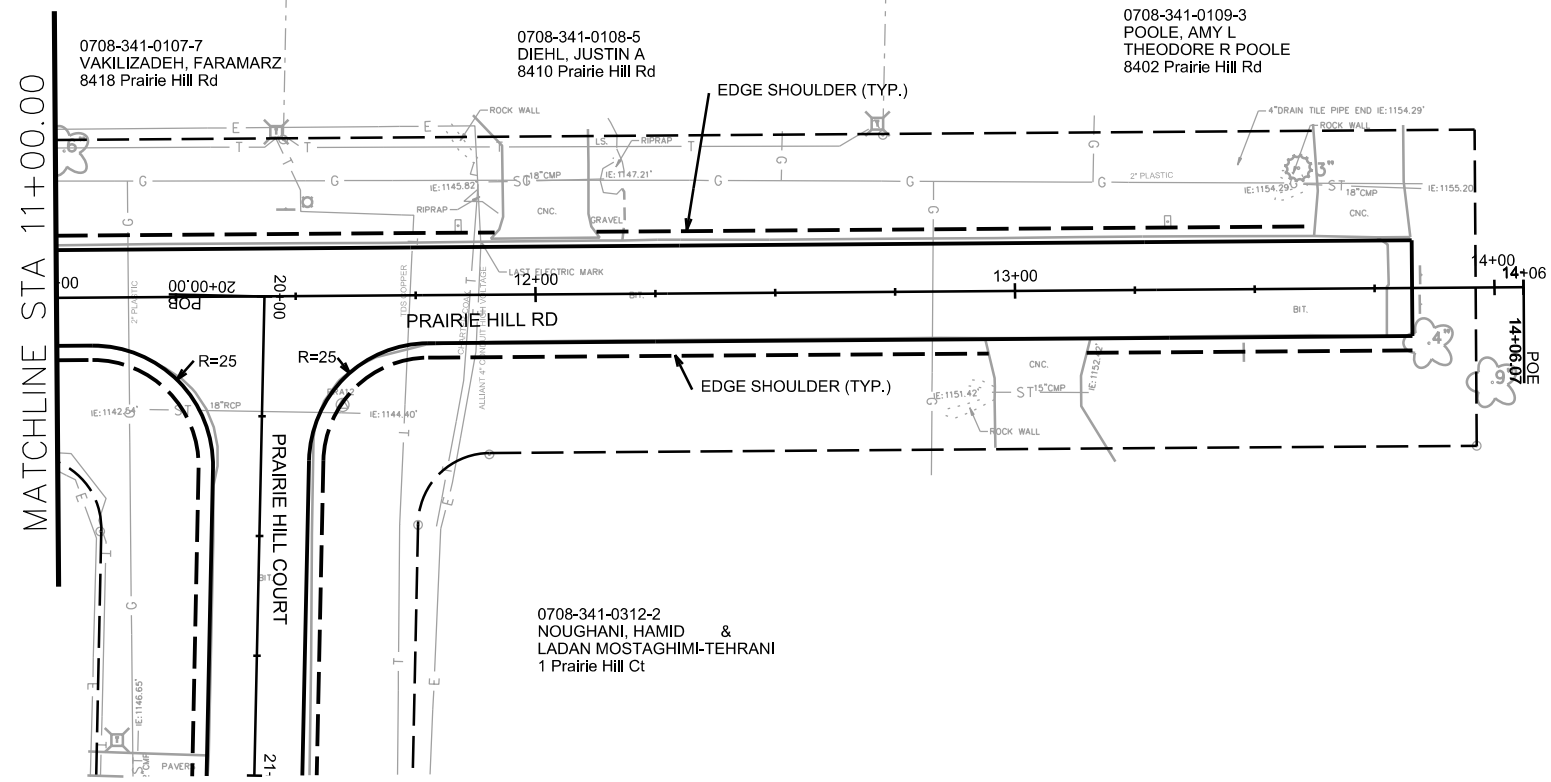
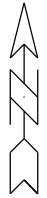


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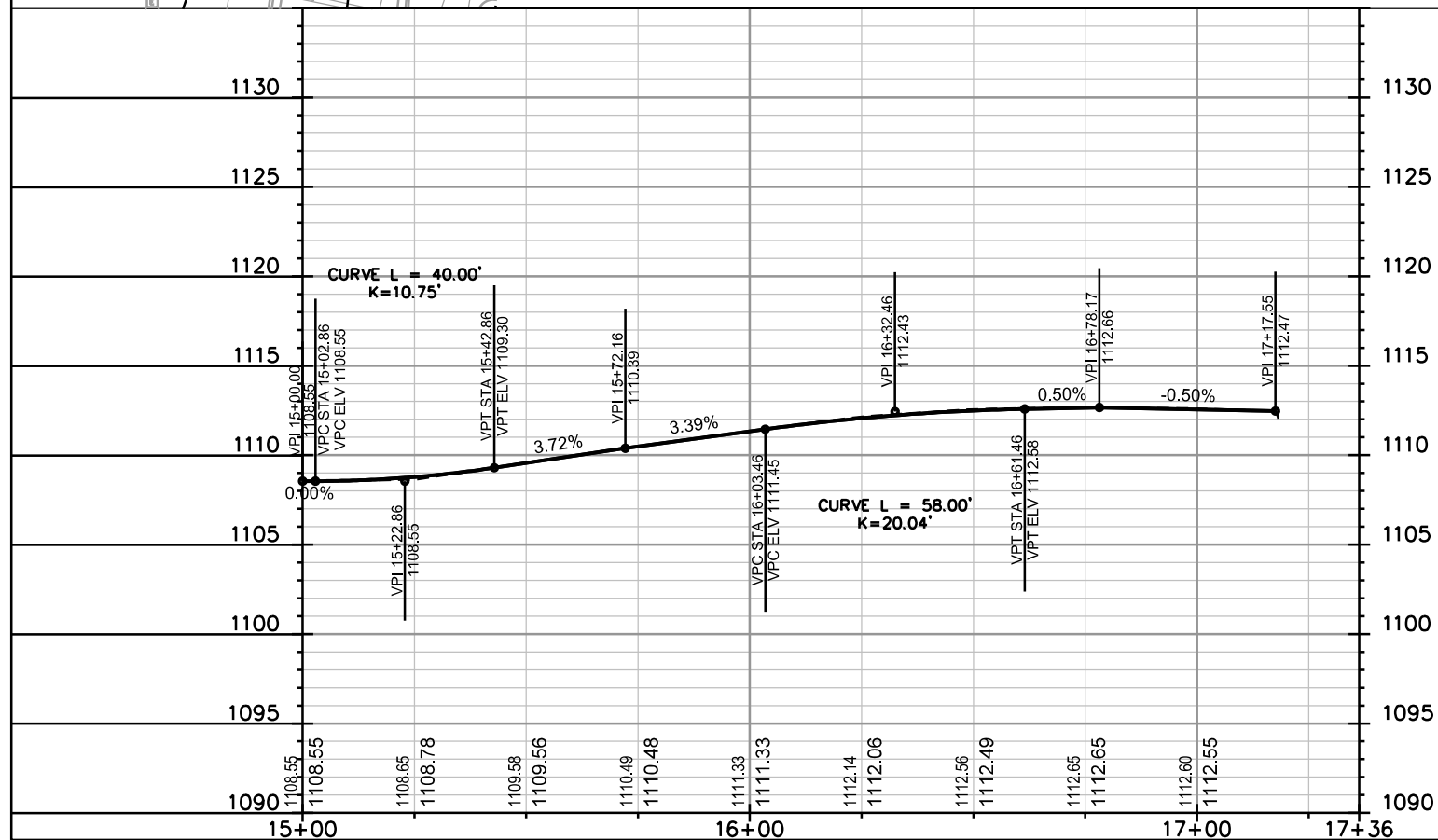
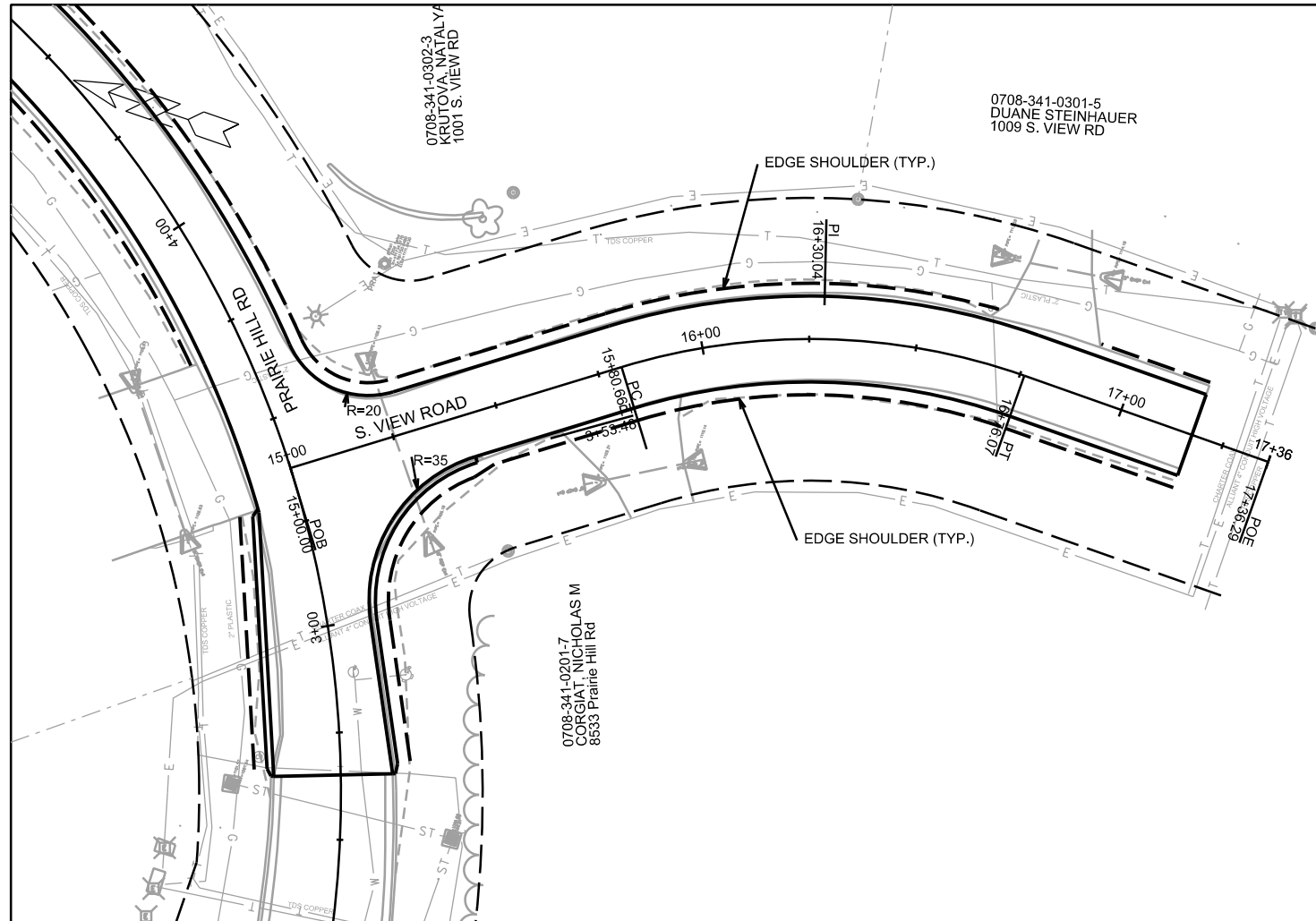


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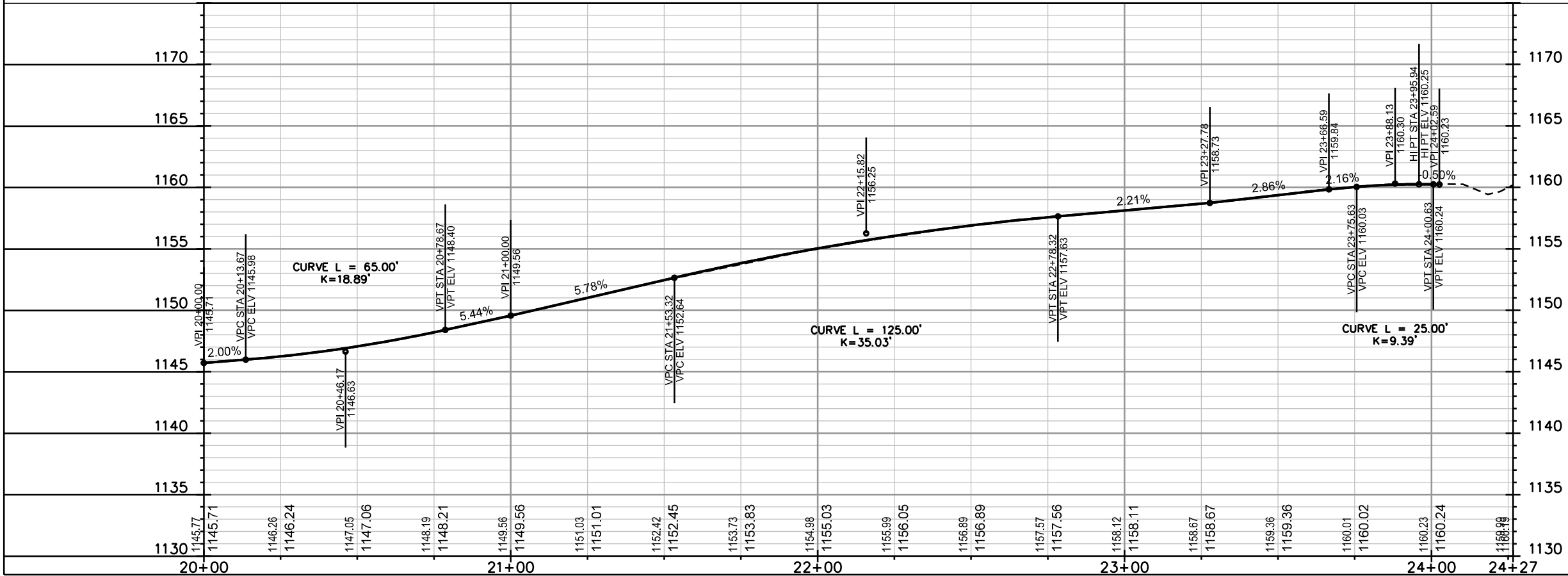
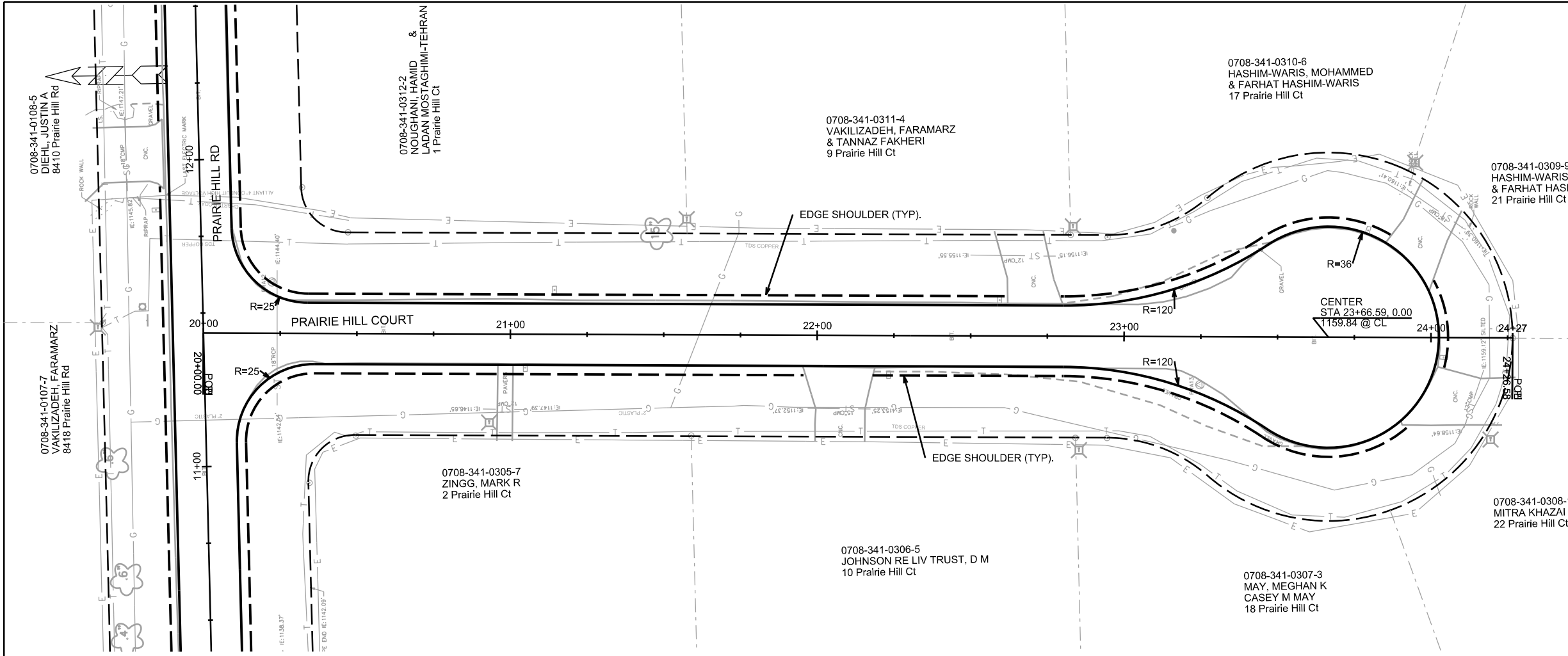


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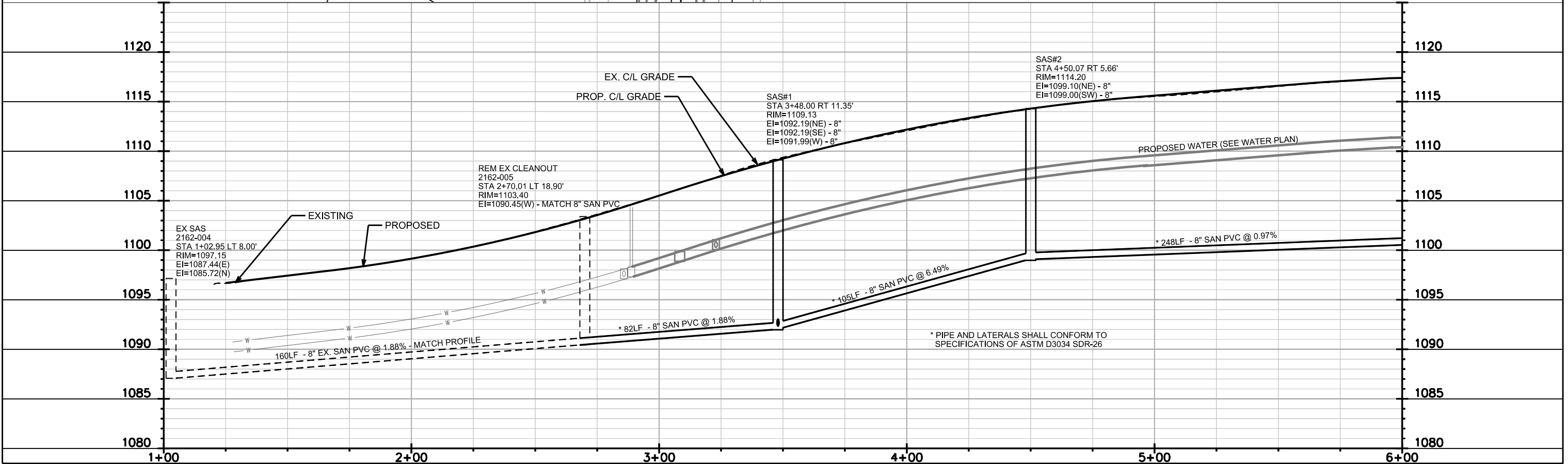
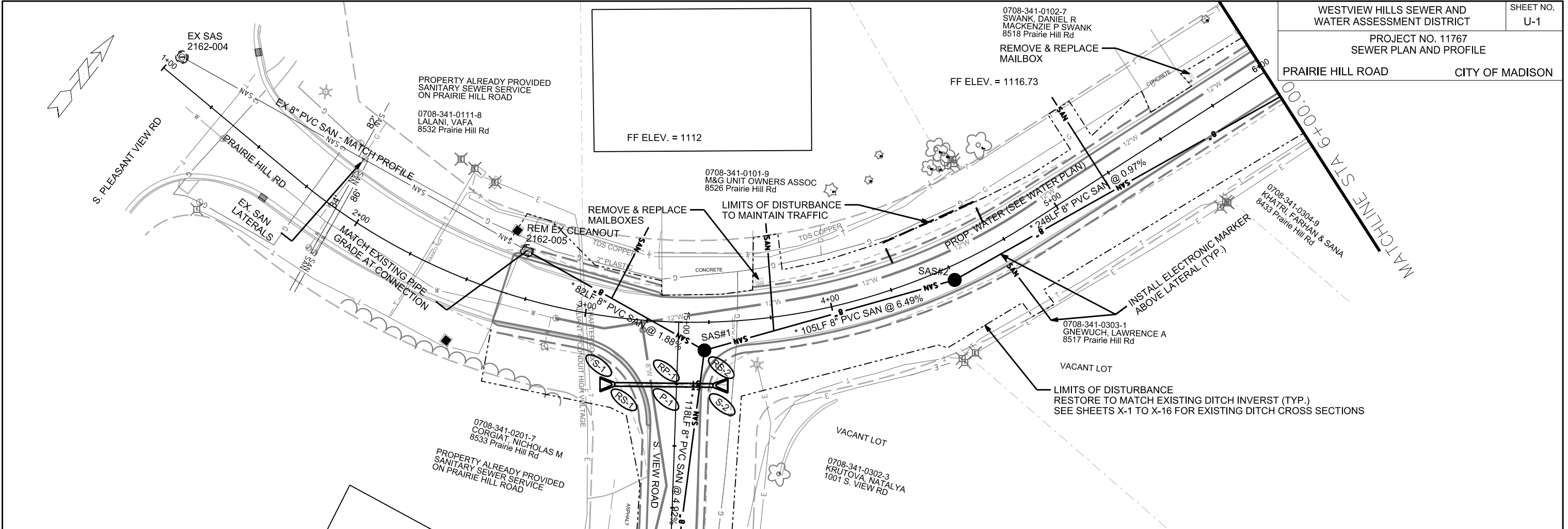
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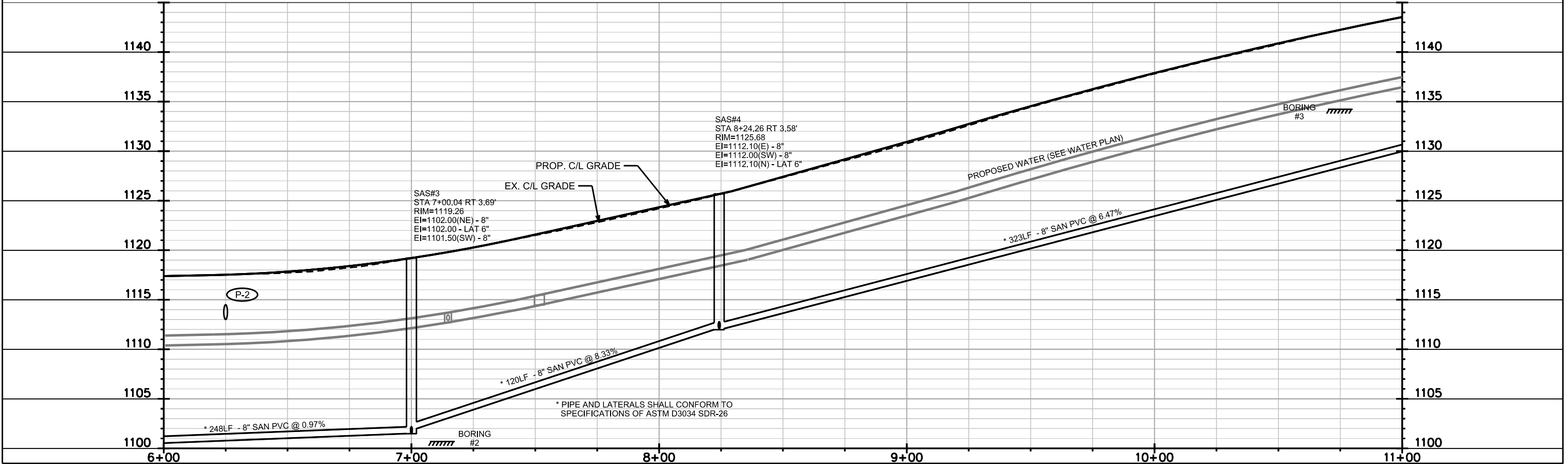
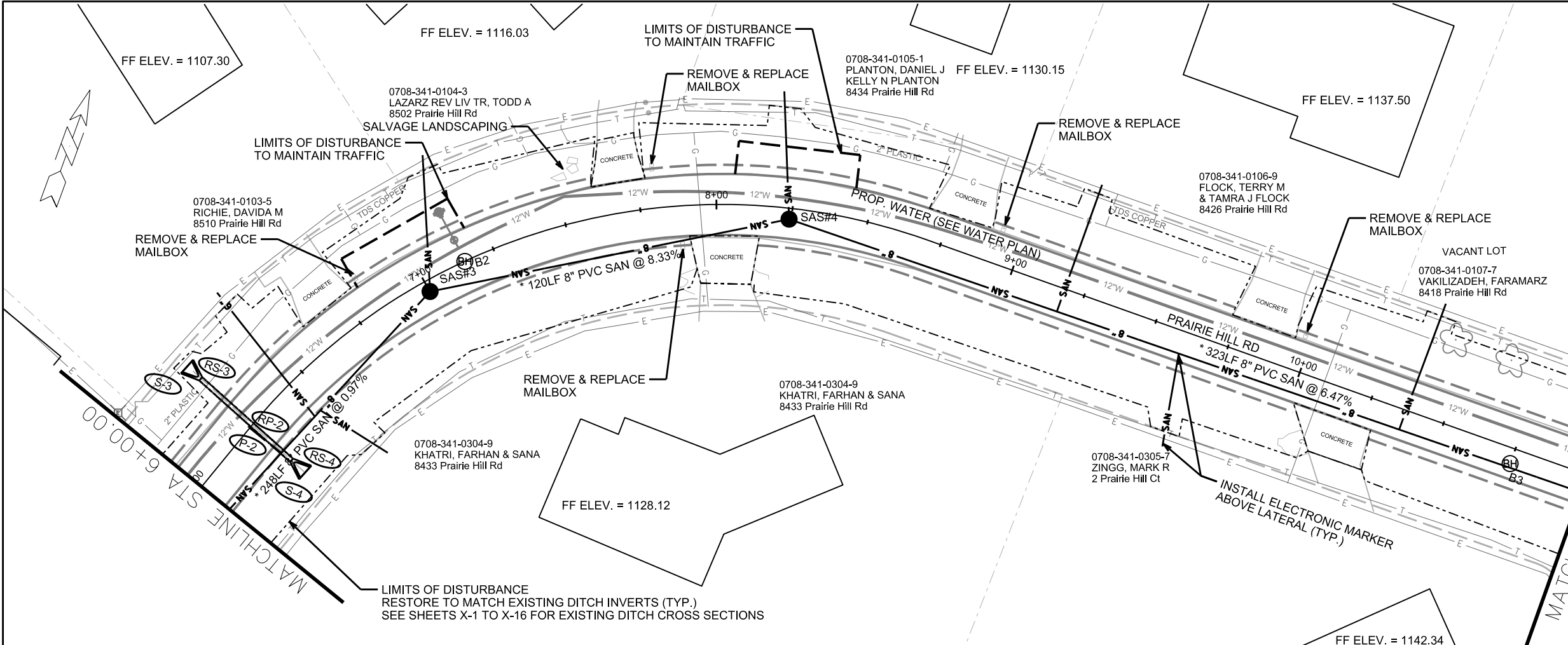
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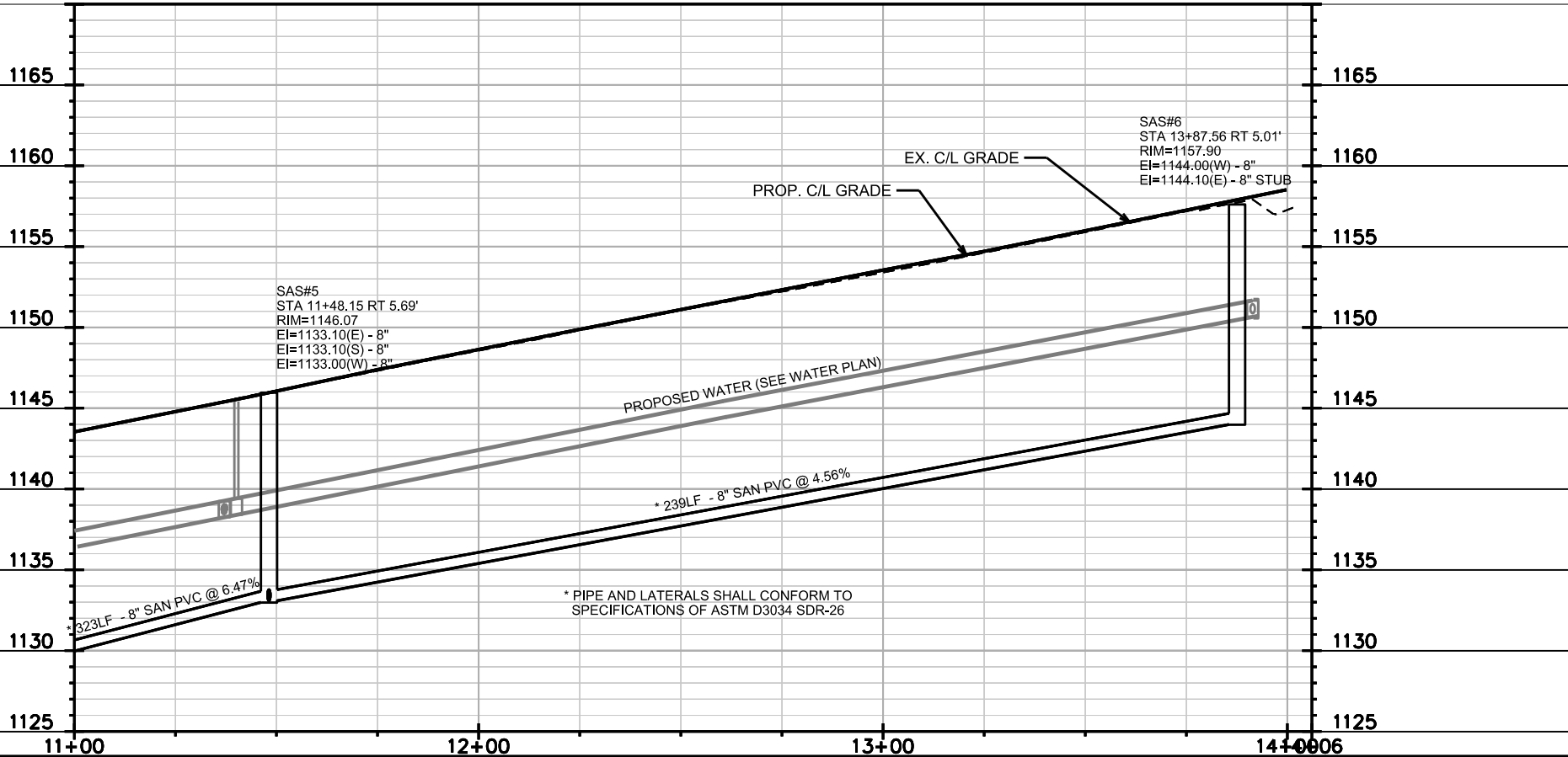
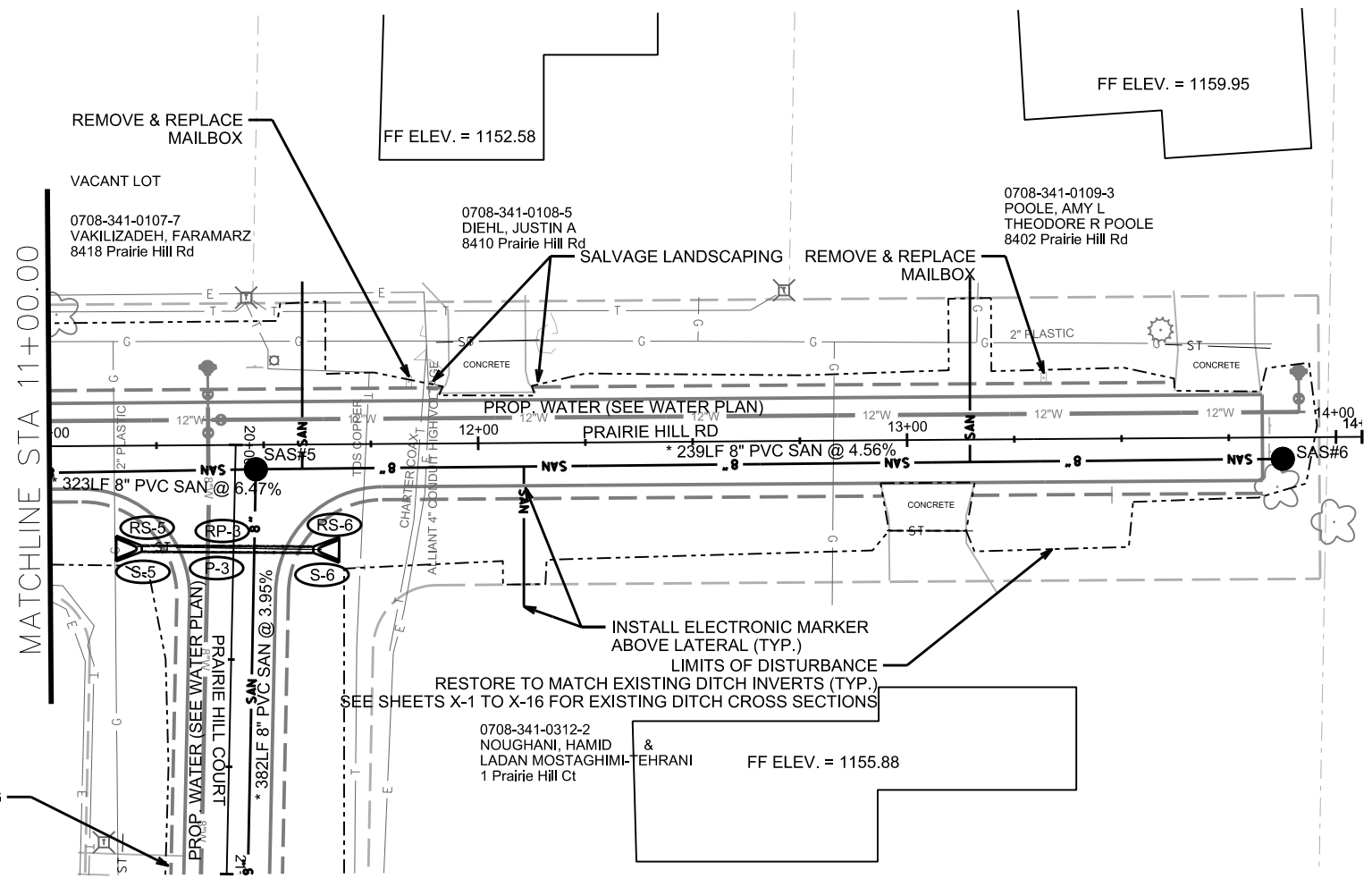
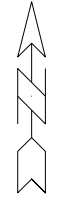
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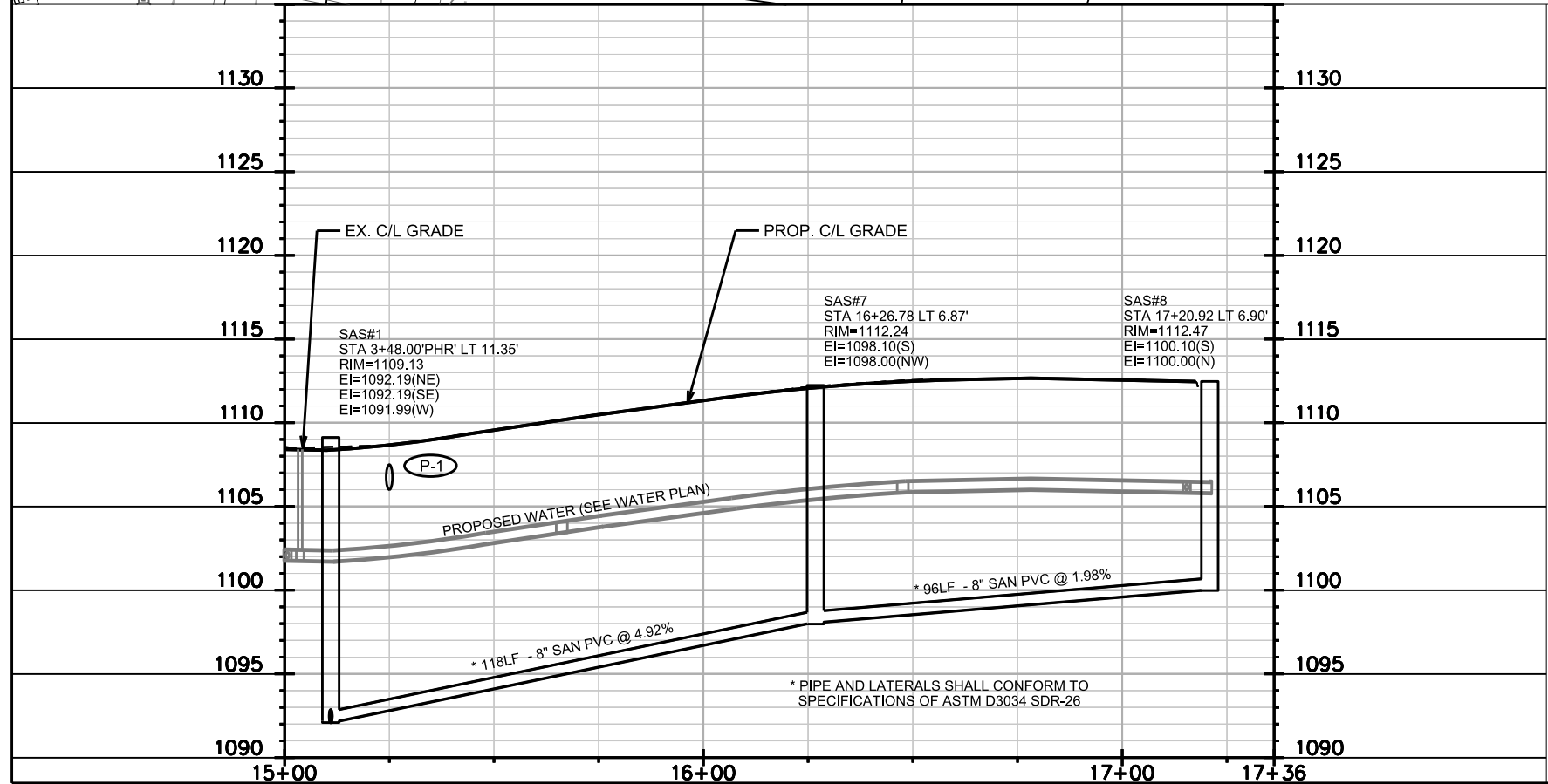
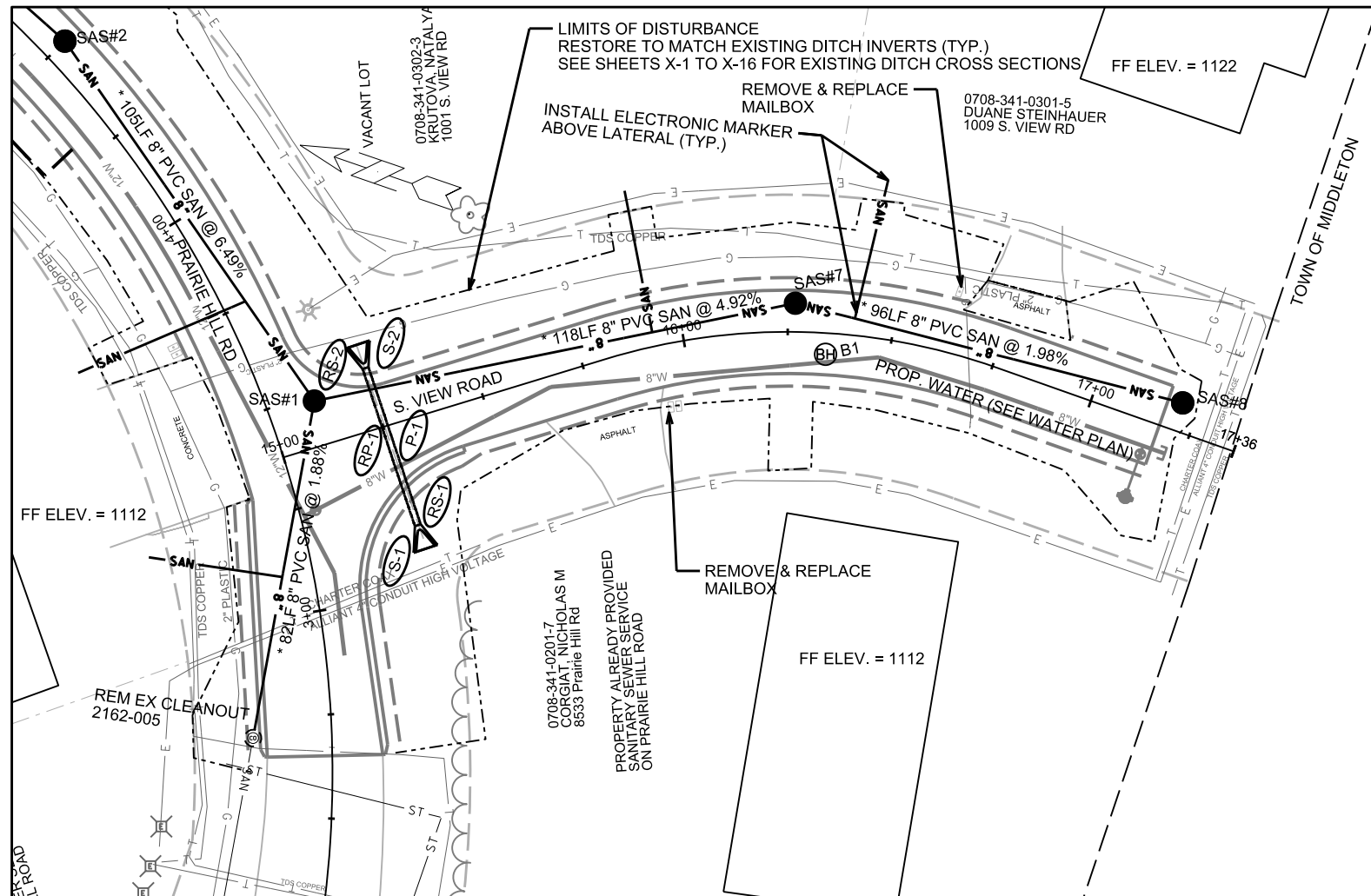
\* PIPE AND LATERALS SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

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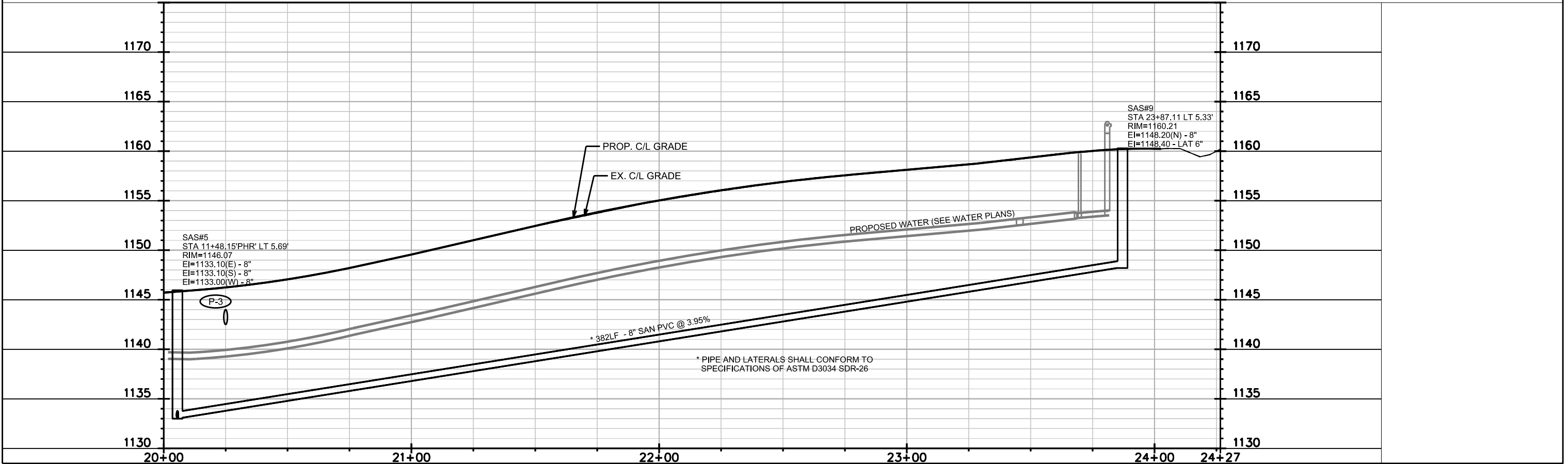
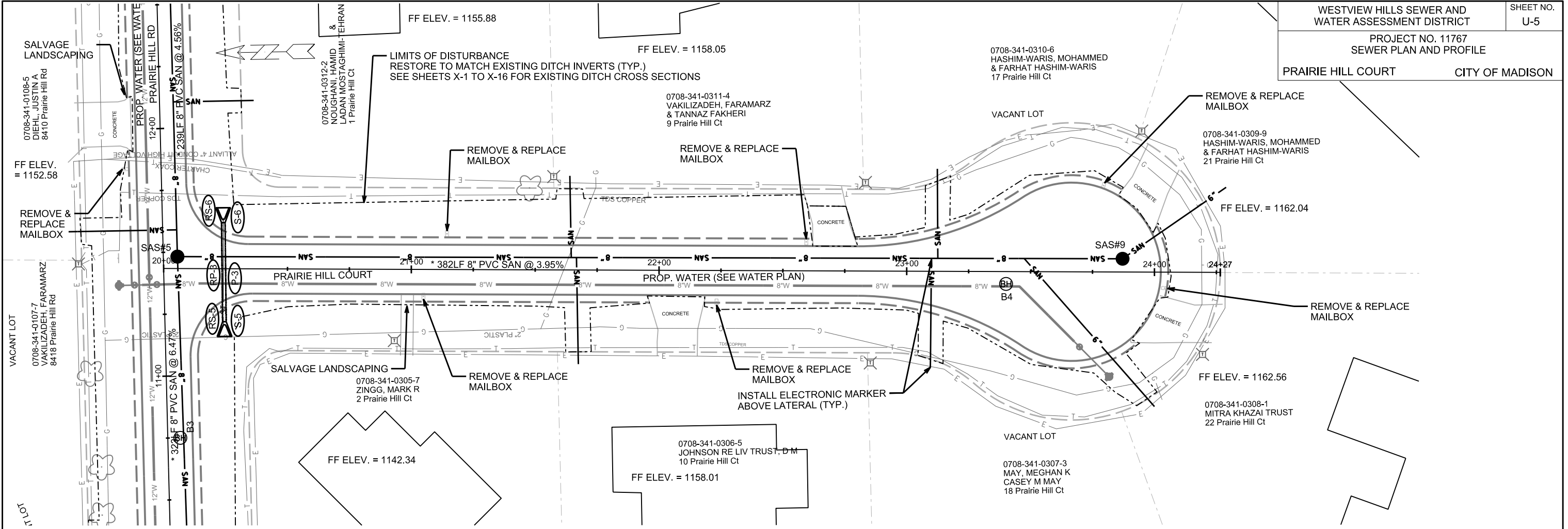
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# STORM SEWER SCHEDULE

WESTVIEW HILLS SEWER AND  
WATER ASSESSMENT DISTRICT

SHEET NO.  
U-6

PROJECT NO. 11767  
STORM SEWER SCHEDULE  
CITY OF MADISON

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>S. VIEW ROAD</b>							
S-1	15+25.44	RT-24.9	18" ENDWALL		1104.33	-	
S-2	15+25.44	LT-15.1	18" ENDWALL		1106.72	-	
<b>PRAIRIE HILL ROAD</b>							
S-3	6+22.60	LT-22.8	21" ENDWALL		1112.30	-	
S-4	6+22.60	RT-17.2	21" ENDWALL		1114.43	-	
S-5	6+29.70	LT-22.8	21" ENDWALL		1112.30	-	
S-6	6+29.70	RT-17.2	21" ENDWALL		1114.43	-	
<b>PRAIRIE HILL COURT</b>							
S-7	20+24.36	RT-21.4	21" ENDWALL		1142.54	-	
S-8	20+24.36	LT-18.6	21" ENDWALL		1144.40	-	

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>S. VIEW ROAD</b>										
P-1	S-1	S-2	1104.33	1106.72	40	40	5.98%	18"	RCP	-
<b>PRAIRIE HILL ROAD</b>										
P-2	S-3	S-4	1112.30	1114.43	40	40	5.33%	21"	RCP	-
P-3	S-5	S-6	1112.30	1114.43	40	40	5.33%	21"	RCP	-
<b>PRAIRIE HILL COURT</b>										
P-4	S-7	S-8	1142.54	1144.40	40	40	4.65%	21"	RCP	-

## SPECIFIC NOTES

(1) SEE CITY OF MADISON SDD 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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

# SANITARY SEWER SCHEDULE

WESTVIEW HILLS SEWER AND  
WATER ASSESSMENT DISTRICT

SHEET NO.  
U-7

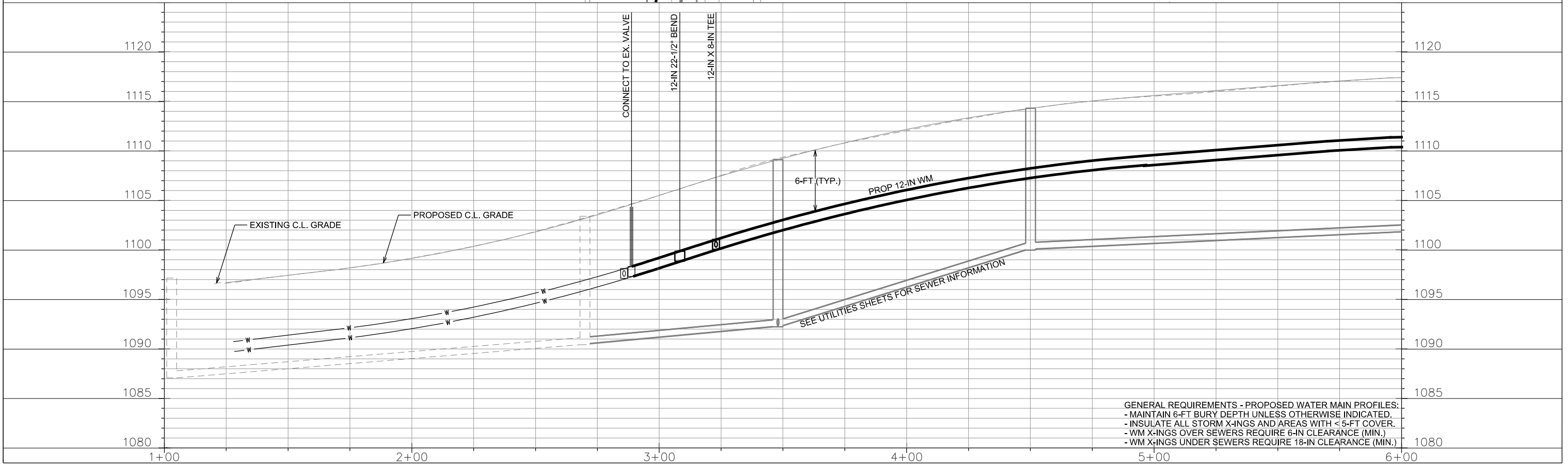
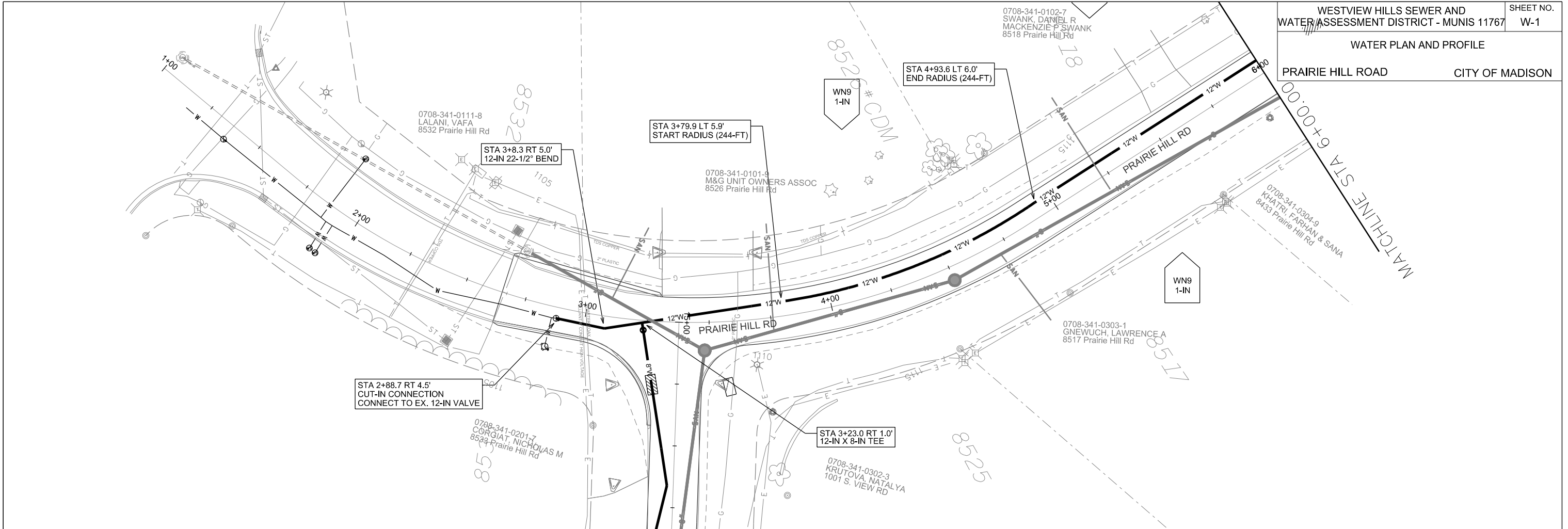
PROJECT NO. 11767  
SANITARY SEWER SCHEDULE  
CITY OF MADISON

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>PRAIRIE HILL ROAD</b>						
SAS#1	3+48.00	RT-11.35	1109.13	1091.99	17.14	-
SAS#2	4+50.07	RT-5.66	1114.20	1099.00	15.20	-
SAS#3	7+00.04	RT-3.69	1119.26	1101.50	17.76	-
SAS#4	8+24.26	RT-3.58	1125.68	1112.00	13.68	-
SAS#5	11+48.15	RT-5.69	1146.07	1133.00	13.07	-
SAS#6	13+87.56	RT-5.01	1157.90	1144.00	13.90	-
<b>S. VIEW ROAD</b>						
SAS#7	16+26.78	LT-6.87	1112.24	1098.00	14.24	-
SAS#8	17+20.92	LT-6.90	1112.47	1100.00	12.47	-
<b>PRAIRIE HILL COURT</b>						
SAS#9	23+87.11	LT-5.33	1160.21	1148.20	12.01	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>PRAIRIE HILL ROAD</b>								
EX SAS 2162-005	SAS#1	1090.45	1091.99	82	1.88%	8"	SDR-26	-
SAS#1	SAS#2	1092.19	1099.00	105	6.49%	8"	SDR-26	-
SAS#2	SAS#3	1099.10	1101.50	248	0.97%	8"	SDR-26	-
SAS#3	SAS#4	1102.00	1112.00	120	8.33%	8"	SDR-26	-
SAS#4	SAS#5	1112.10	1133.00	323	6.47%	8"	SDR-26	-
SAS#5	SAS#6	1133.10	1144.00	239	4.56%	8"	SDR-26	-
<b>S. VIEW ROAD</b>								
SAS#1	SAS#7	1092.19	1098.00	118	4.92%	8"	SDR-26	-
SAS#7	SAS#8	1098.10	1100.00	96	1.98%	8"	SDR-26	-
<b>PRAIRIE HILL COURT</b>								
SAS#5	SAS#9	1133.10	1148.20	382	3.95%	8"	SDR-26	-

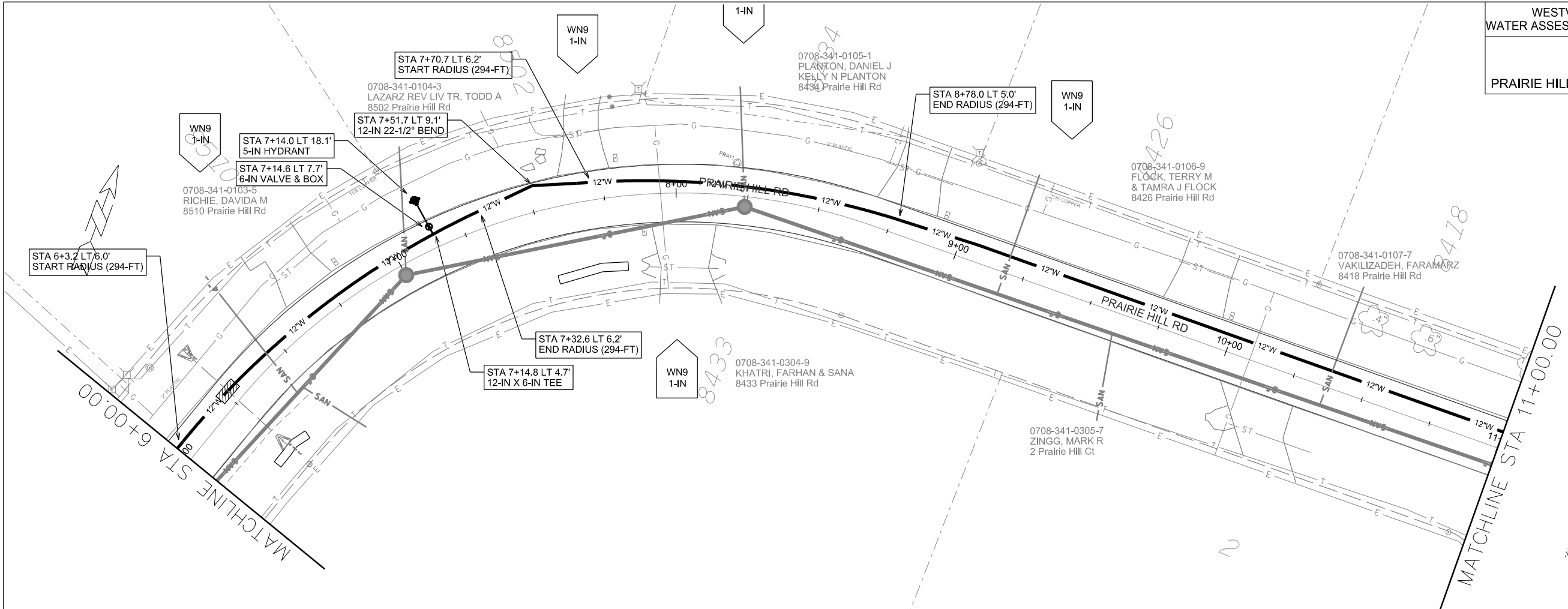


PLOT SCALE:

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



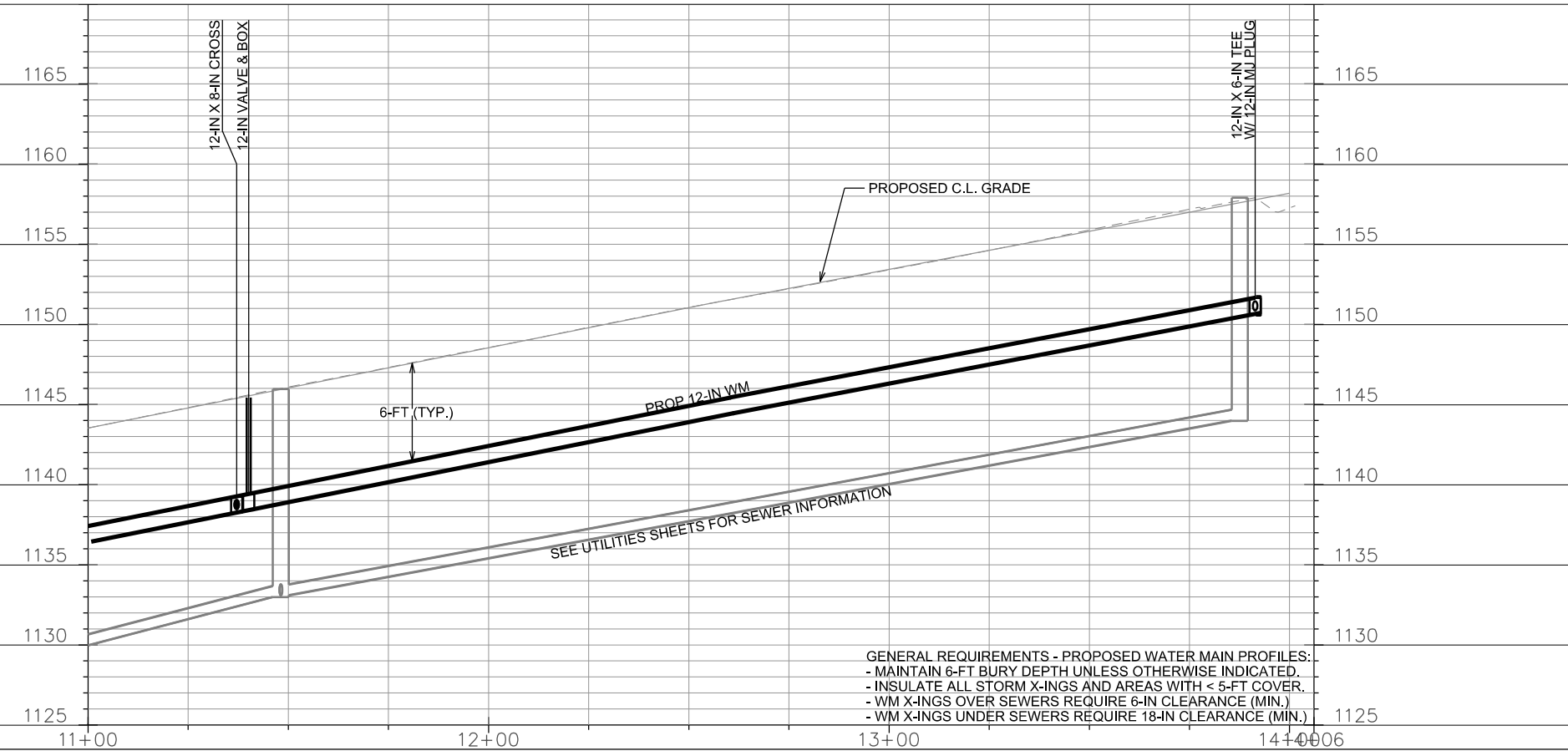
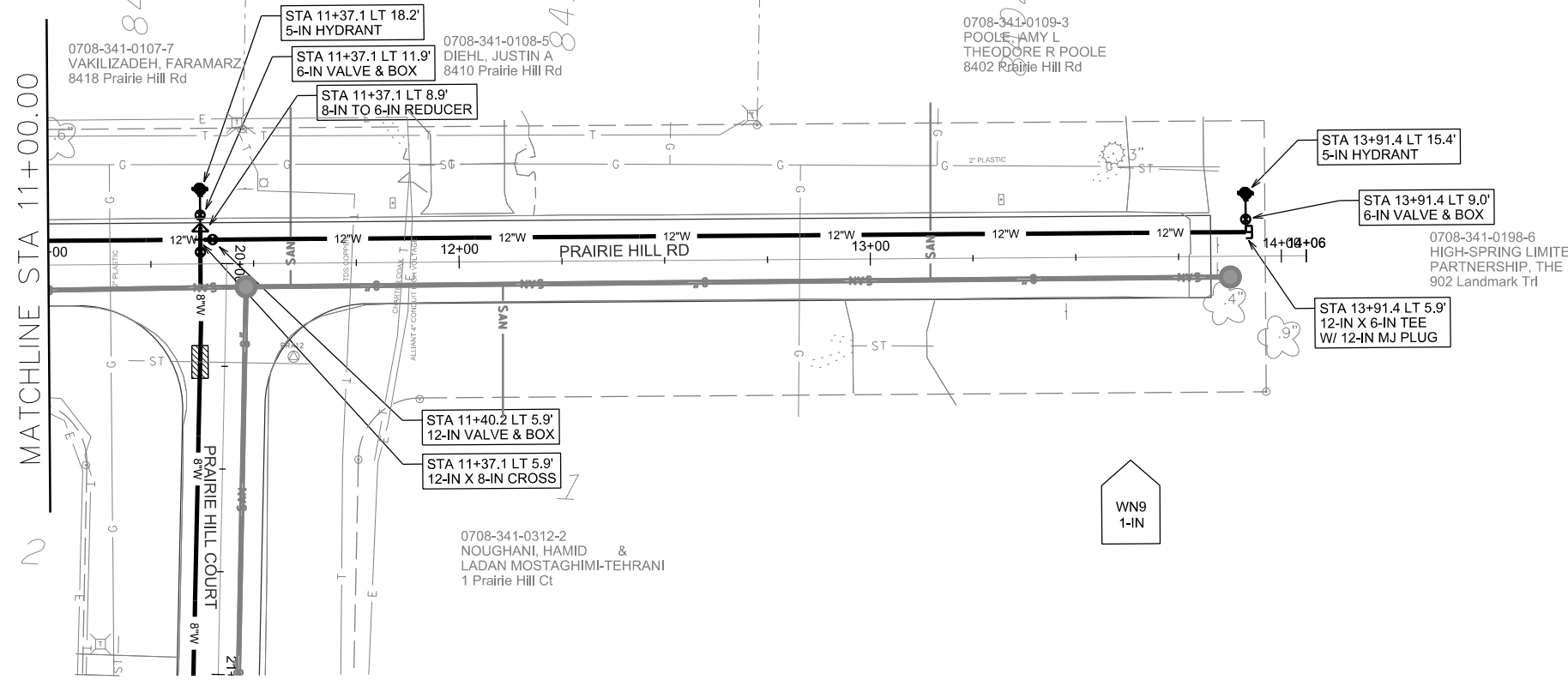
GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:  
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.  
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.  
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)  
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

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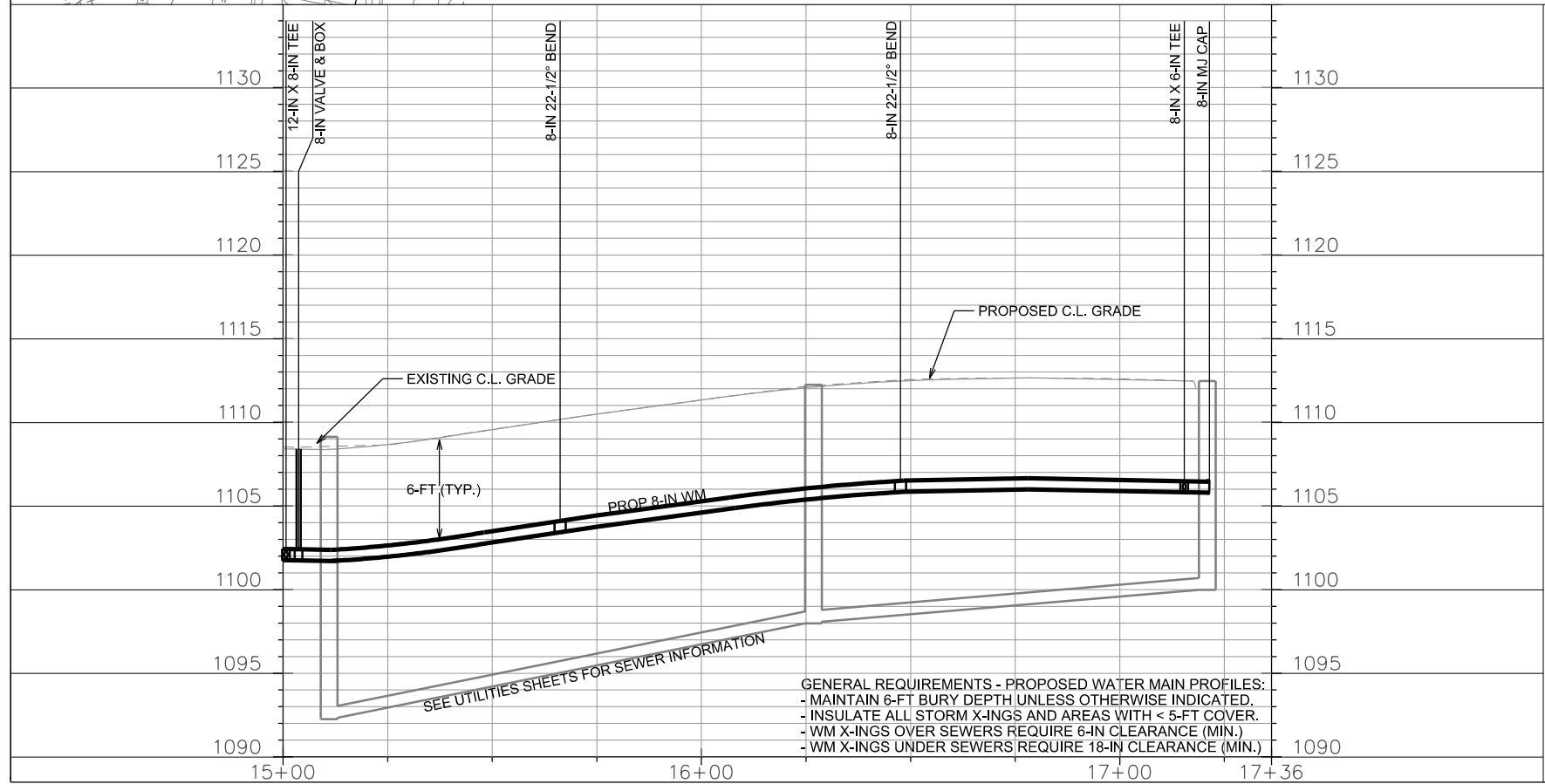
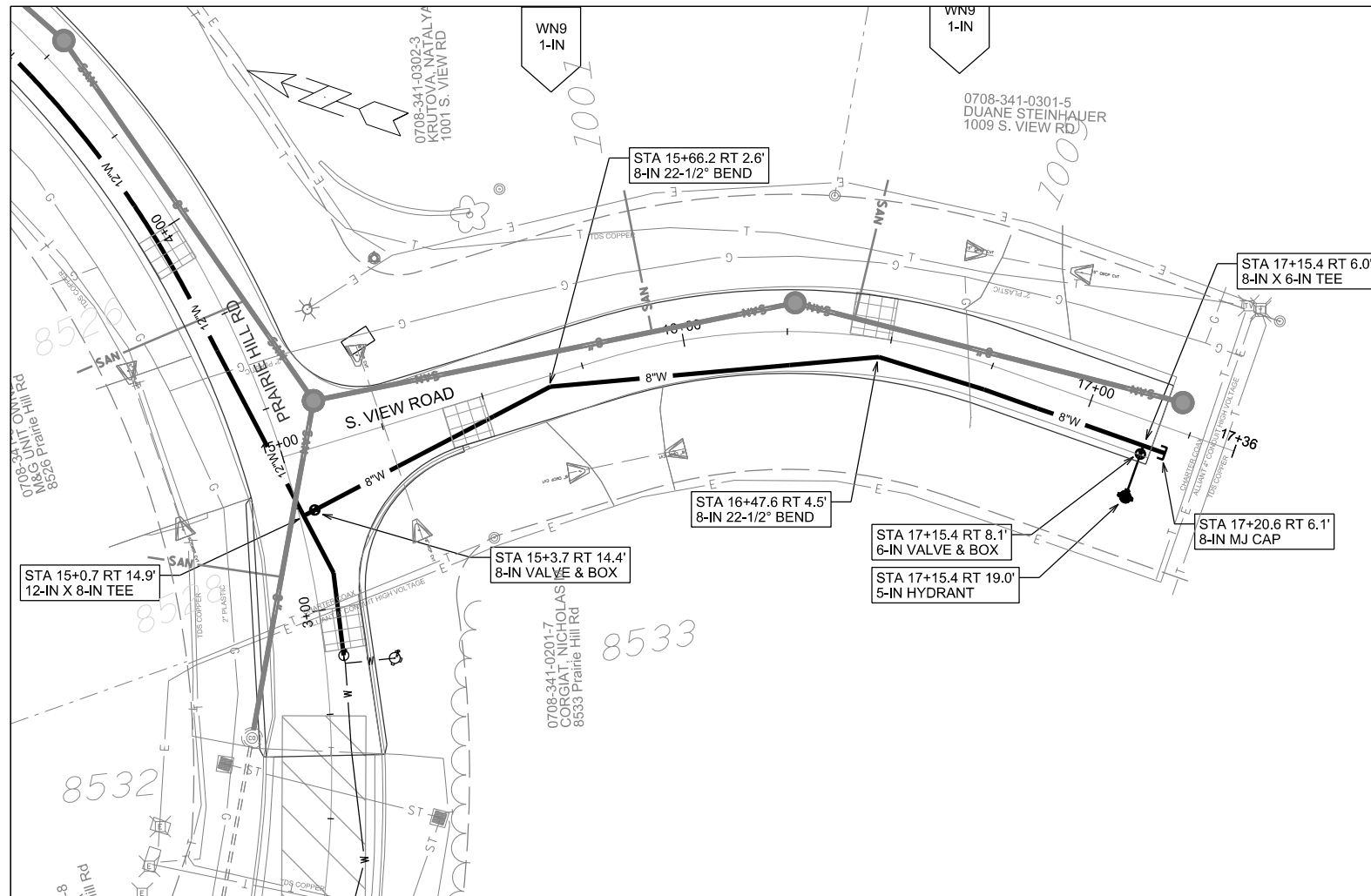
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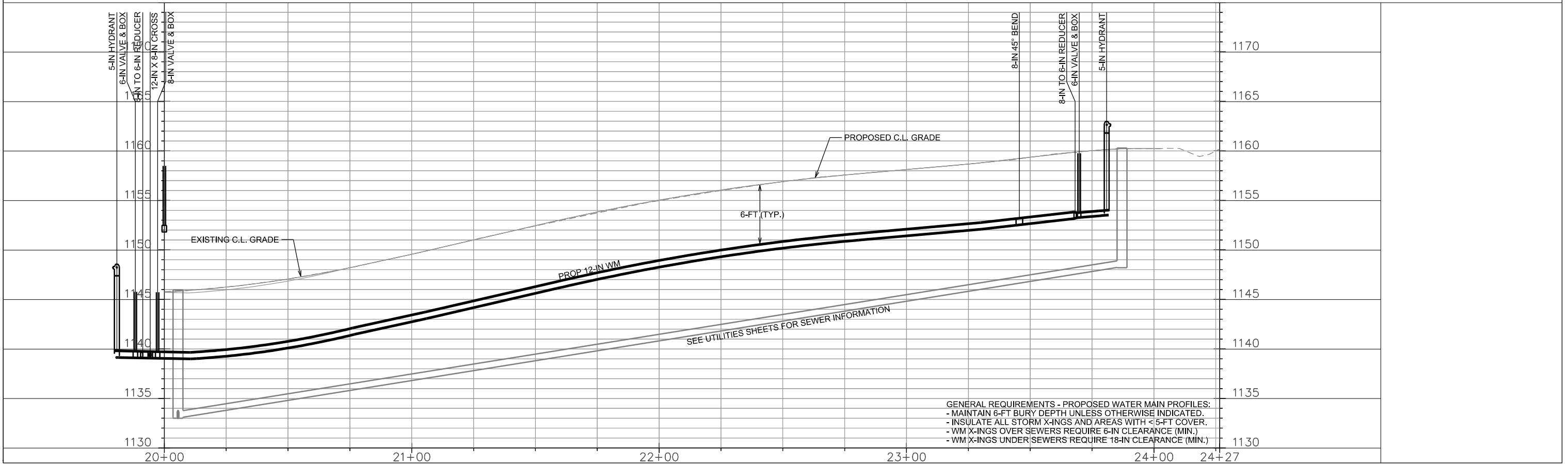
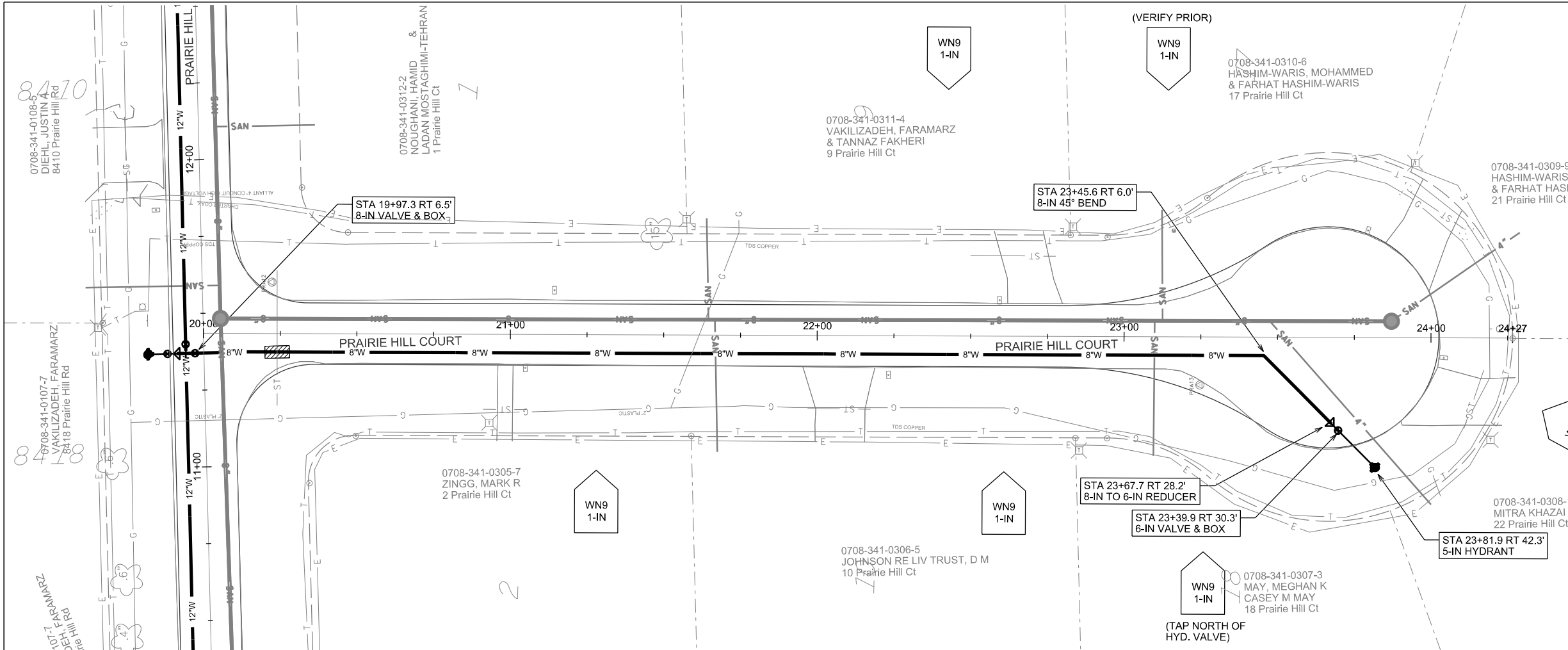


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PLOT SCALE:

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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
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

- \* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*
- |                        |                                   |
|------------------------|-----------------------------------|
| 60-FT - 6-IN PIPE      | 1 - 8-IN 45° BEND                 |
| 620-FT - 8-IN PIPE     | 2 - 8-IN X 6-IN REDUCER           |
| 1120-FT - 12-IN PIPE   | 1 - 12-IN MJ PLUG                 |
| 5 - 6-IN VALVE & BOX   | 1 - 8-IN MJ CAP                   |
| 2 - 8-IN VALVE & BOX   | 5 - 5-IN HYDRANT                  |
| 1 - 12-IN VALVE & BOX  | 24-FT - 2-IN STYROFOAM INSULATION |
| 1 - 8-IN X 6-IN TEE    | 2100-FT - POLY WRAP               |
| 2 - 12-IN X 6-IN TEE   | 1-IN TO 2-IN COPPER (AS REQ'D)    |
| 2 - 12-IN X 8-IN TEE   |                                   |
| 1 - 12-IN X 8-IN CROSS |                                   |
| 2 - 8-IN 22-1/2° BEND  |                                   |
| 2 - 12-IN 22-1/2° BEND |                                   |

**MATERIALS SUPPLIED BY CITY:**

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

NONE

**ESTIMATE OF MATERIALS REUSED:**

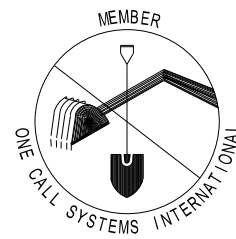
*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

NONE

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.

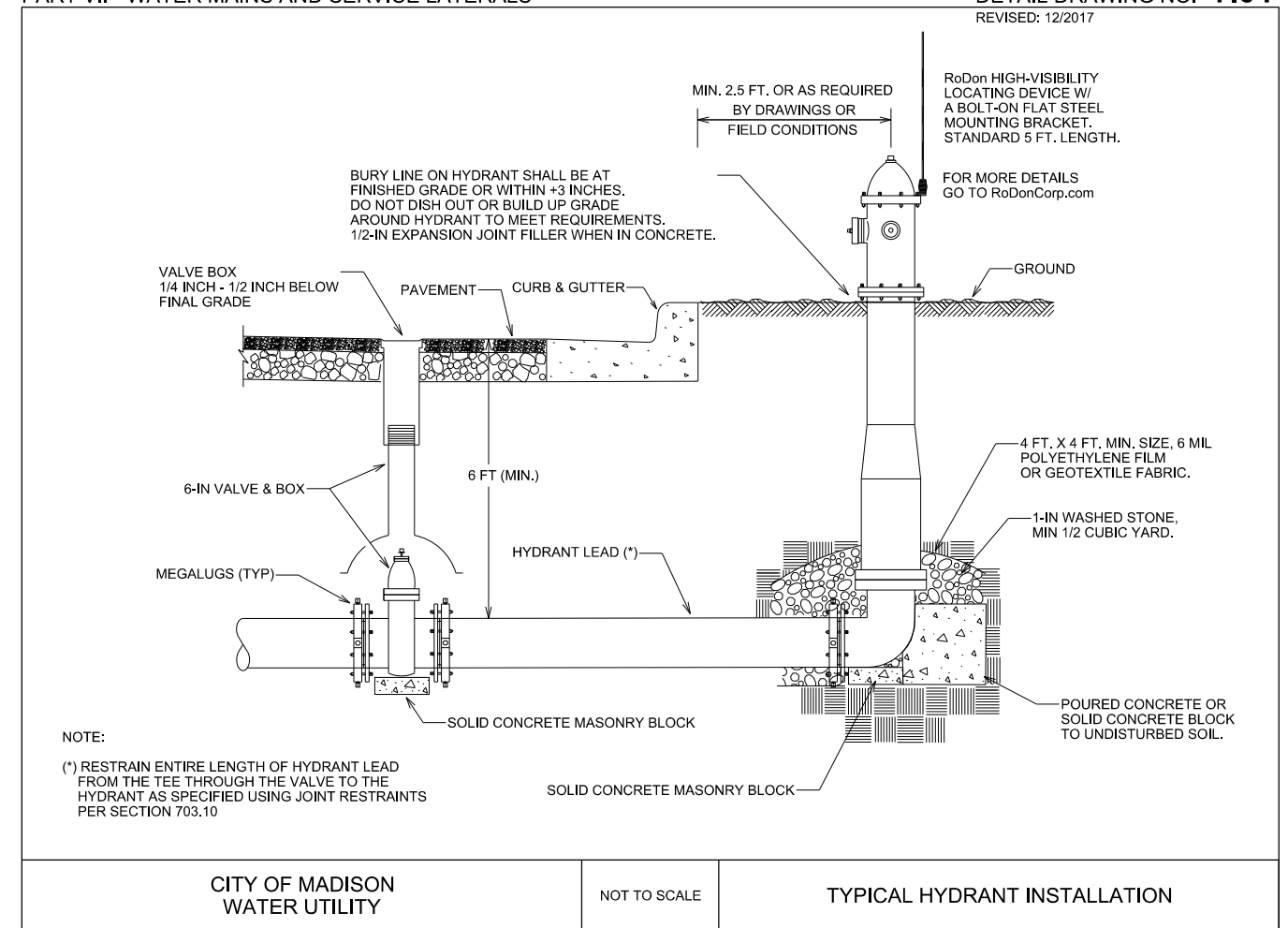


**DISCLAIMER NOTE:**  
 UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

**PART VII - WATER MAINS AND SERVICE LATERALS**

**DETAIL DRAWING NO. 7.04**

REVISED: 12/2017



CITY OF MADISON  
 WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

PRAIRIE HILL ROAD

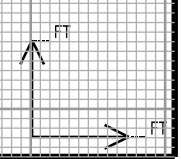
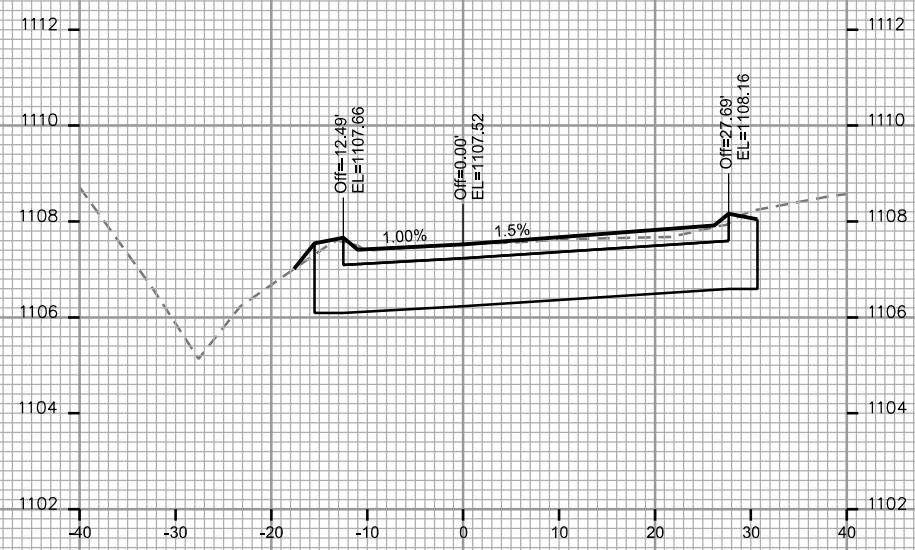
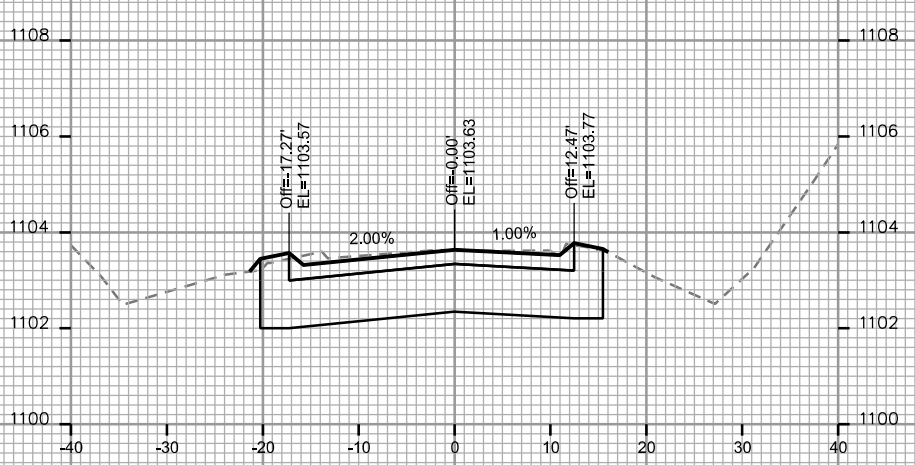
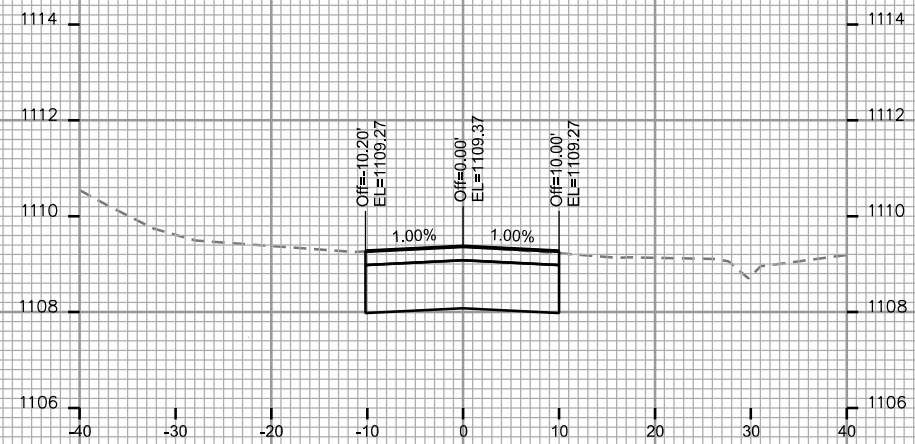
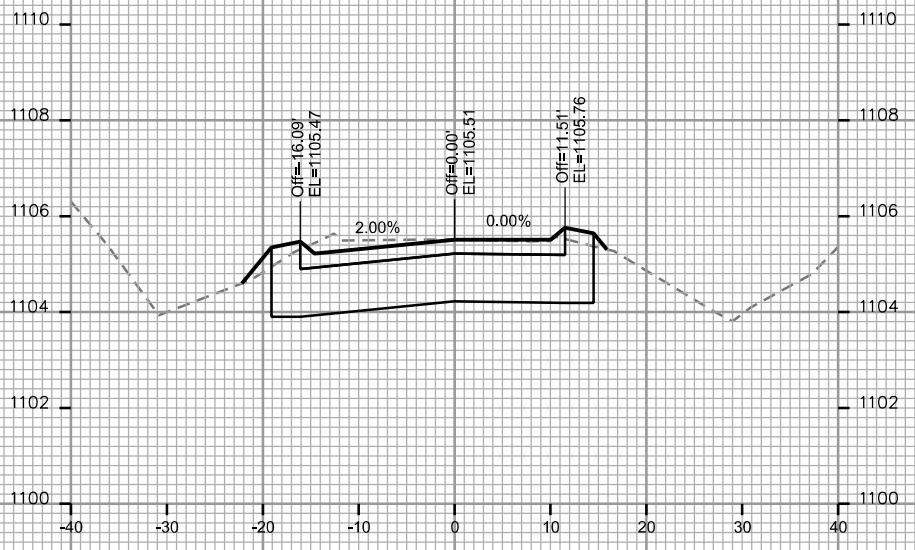
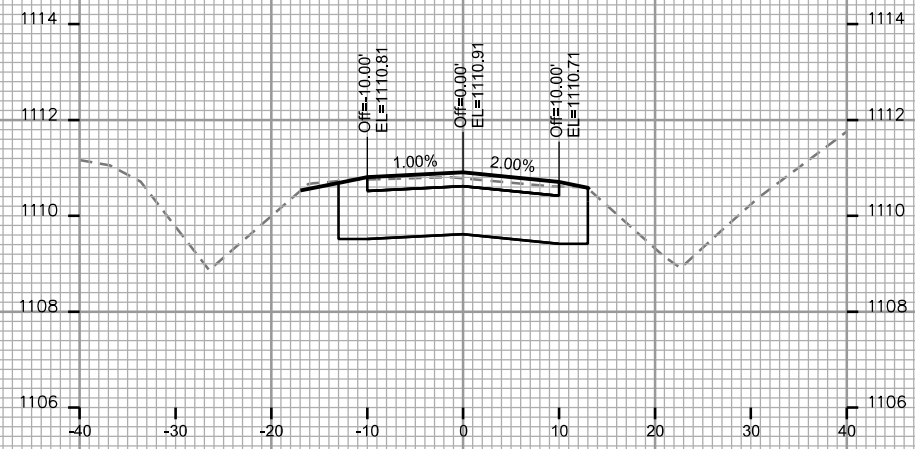
CITY OF MADISON

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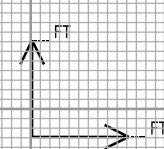
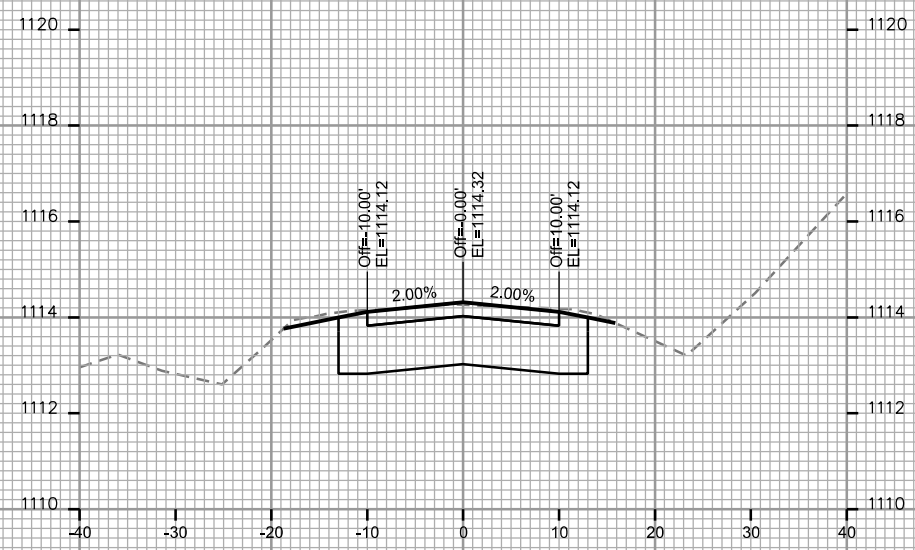
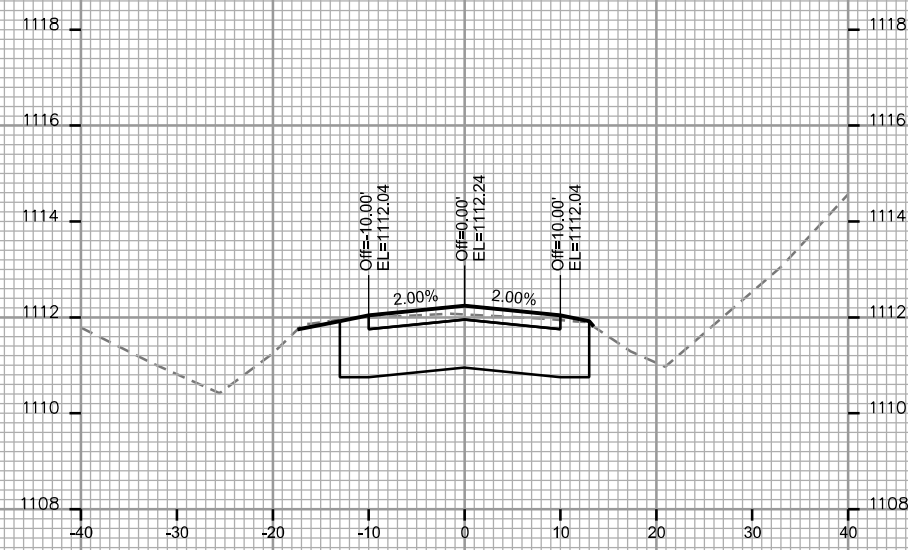
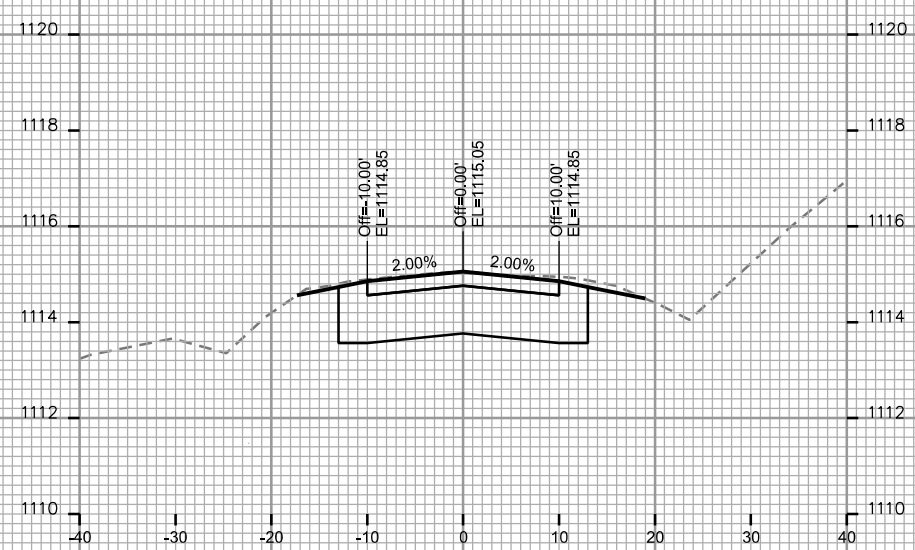
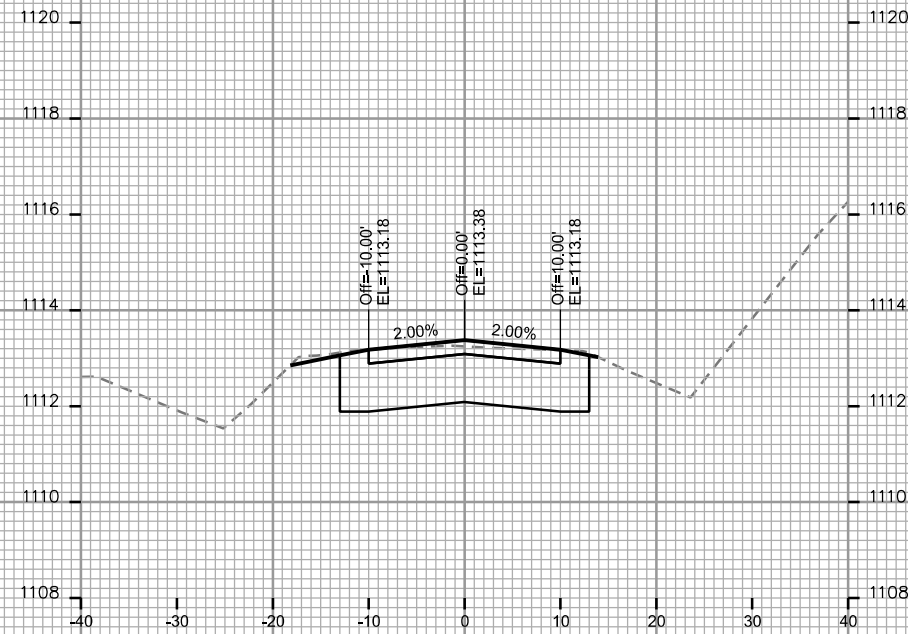
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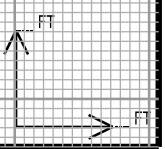
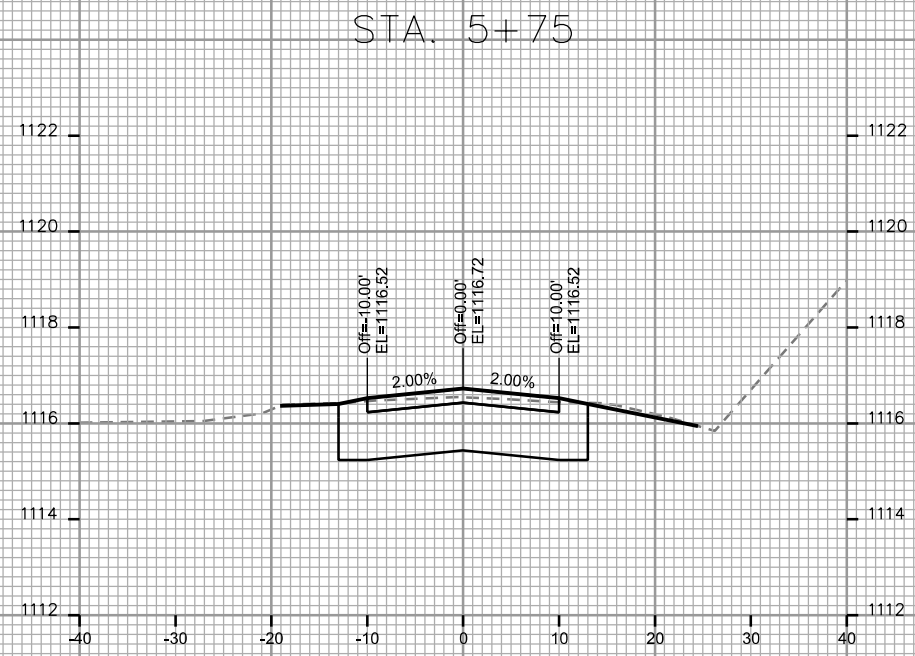
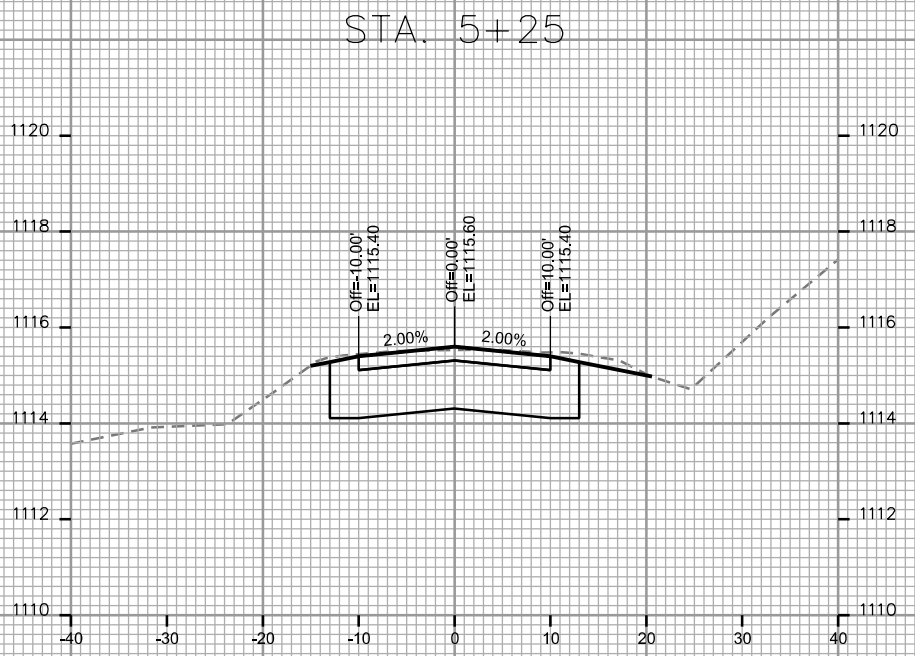
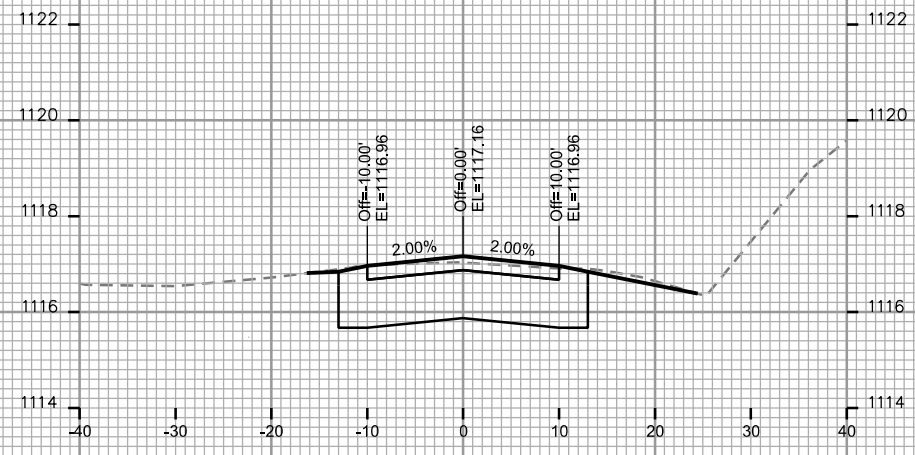
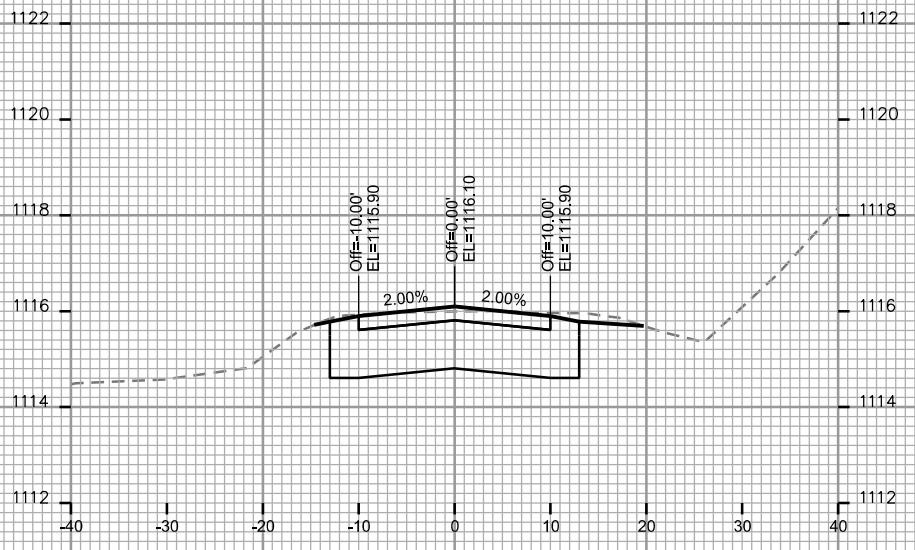
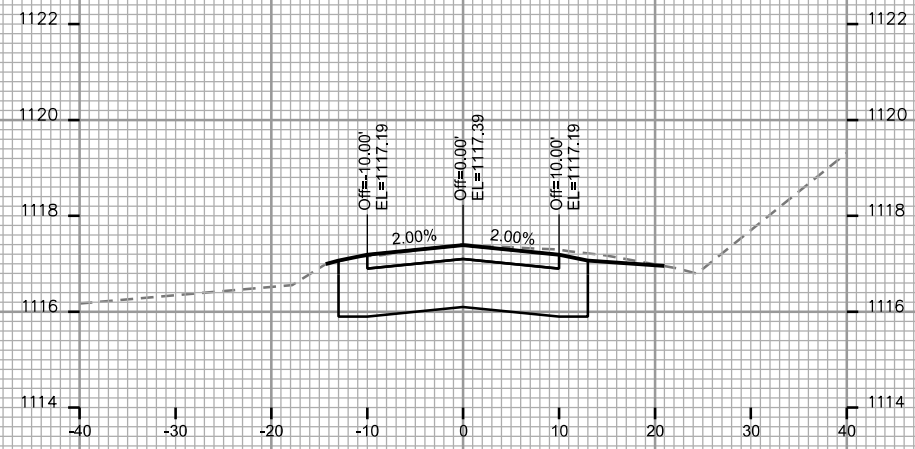
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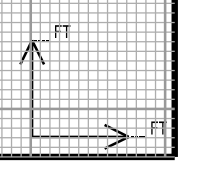
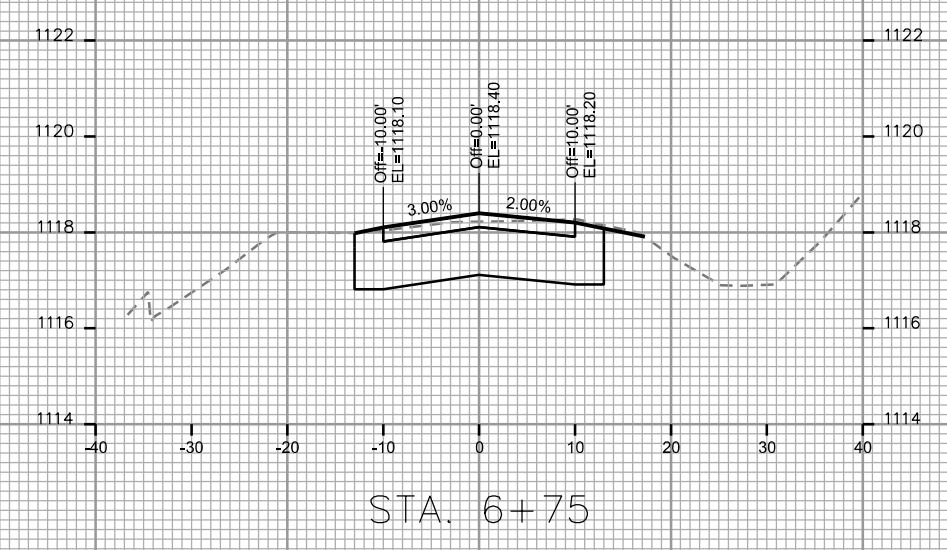
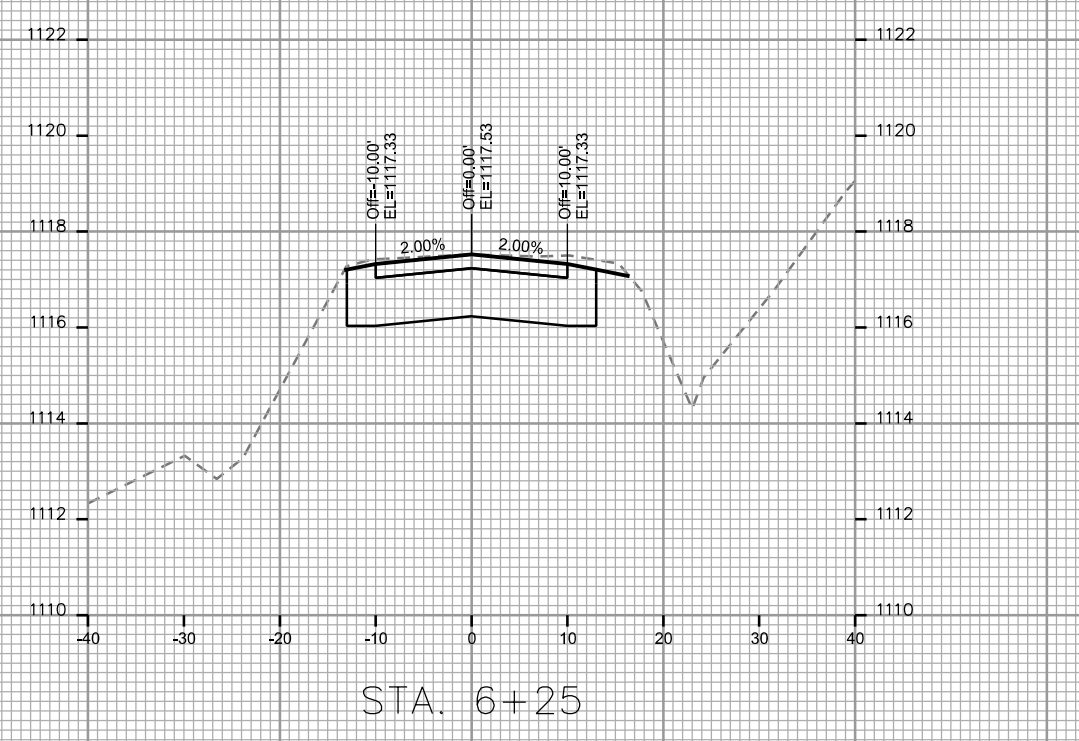
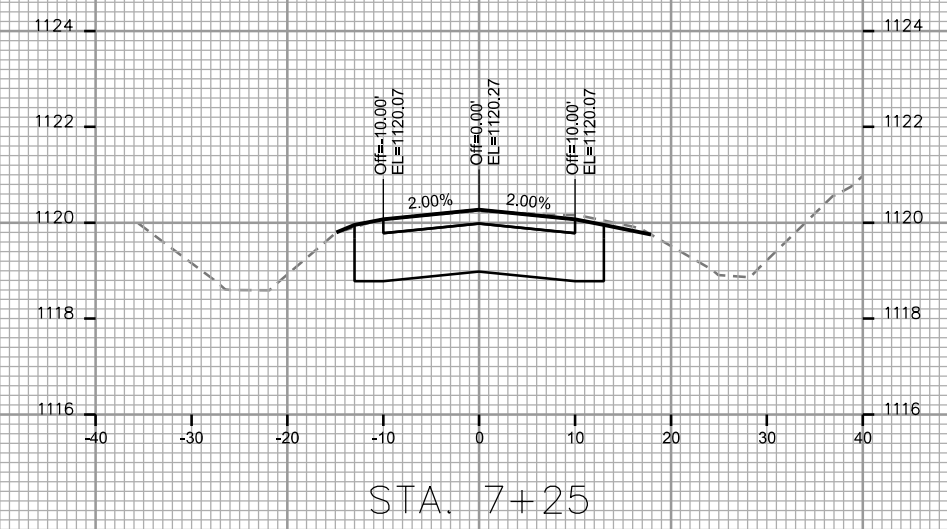
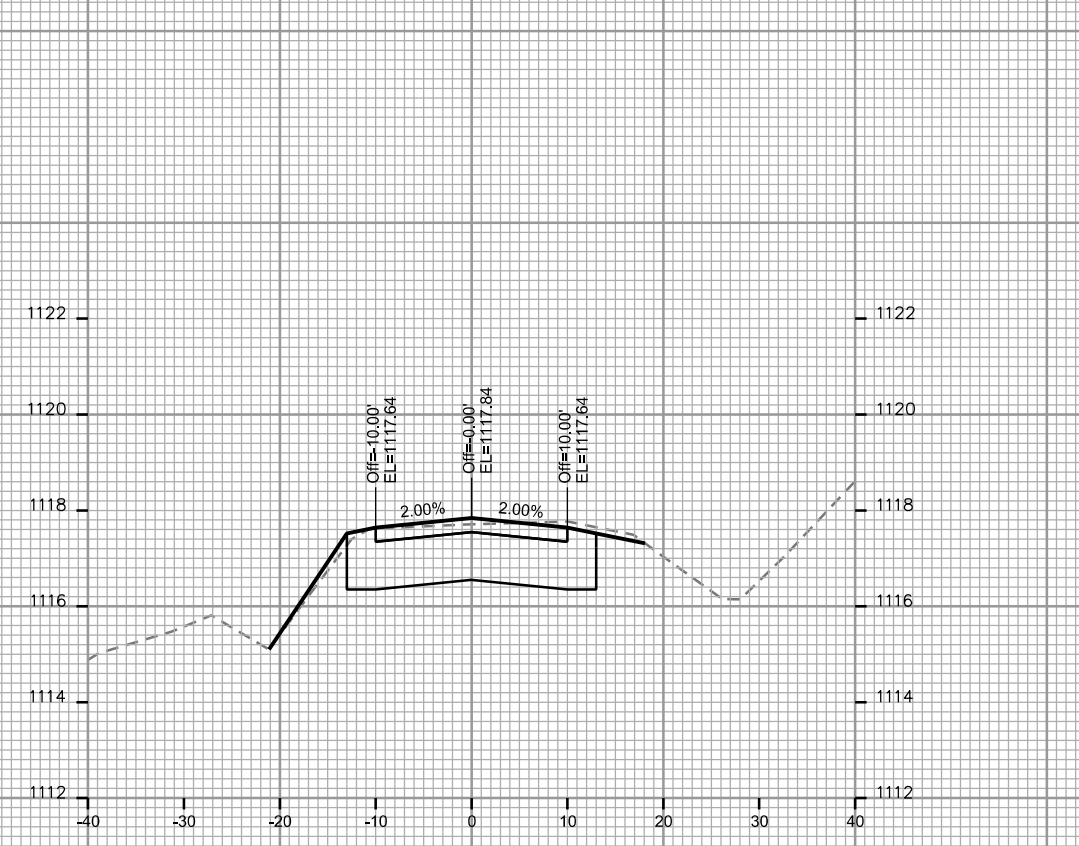
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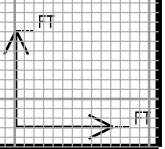
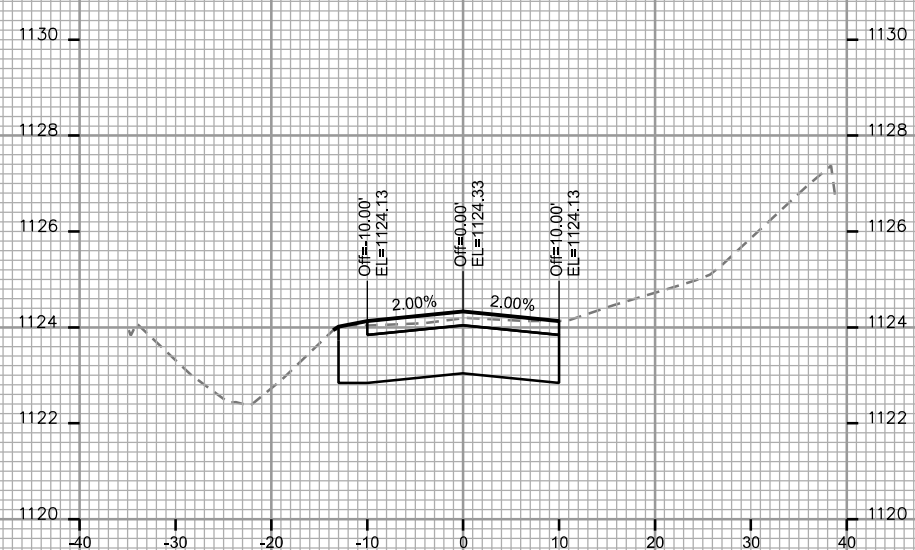
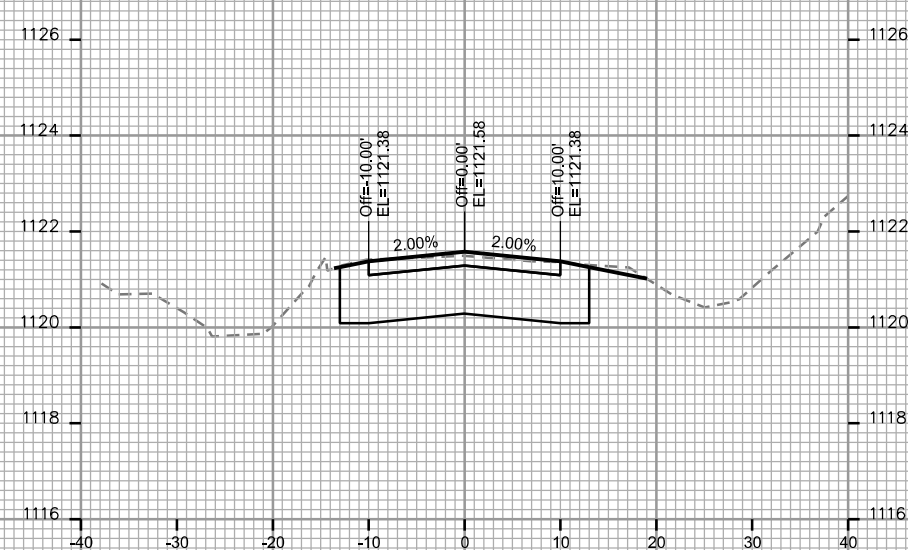
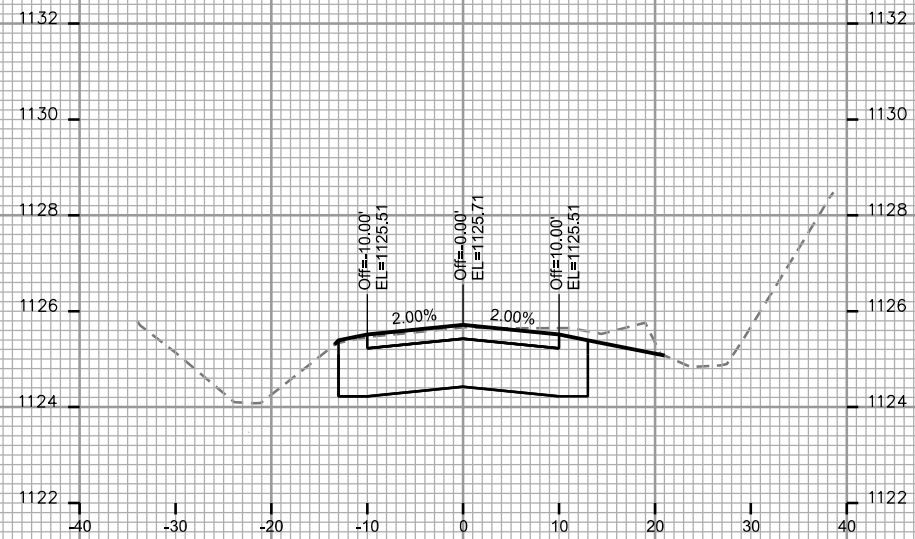
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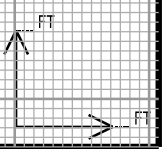
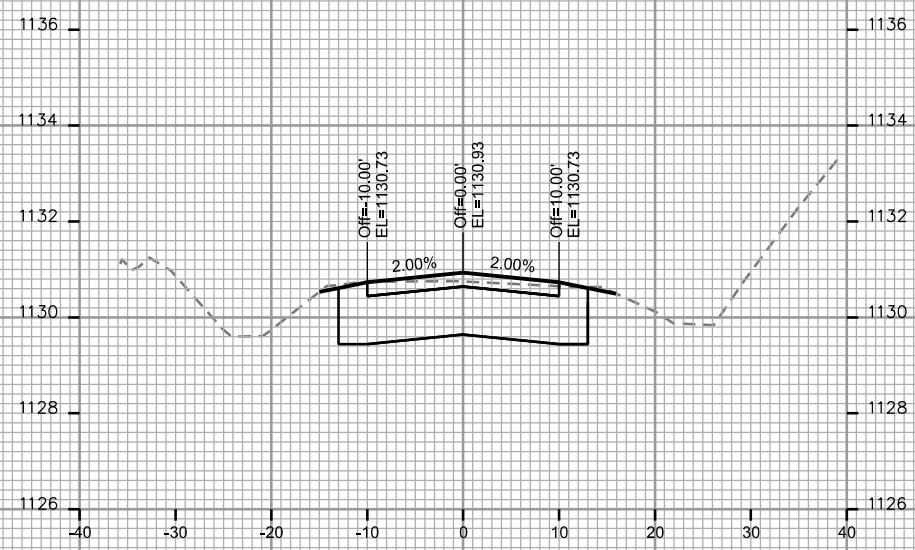
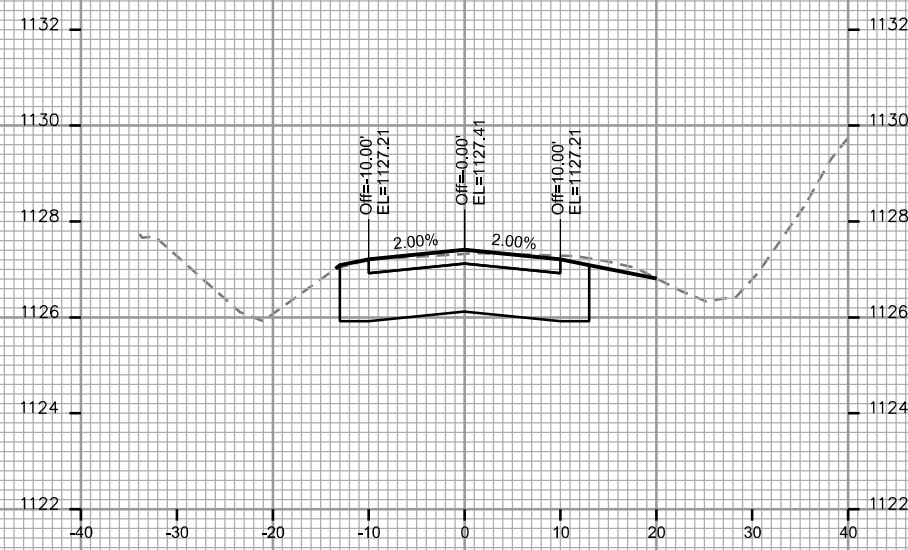
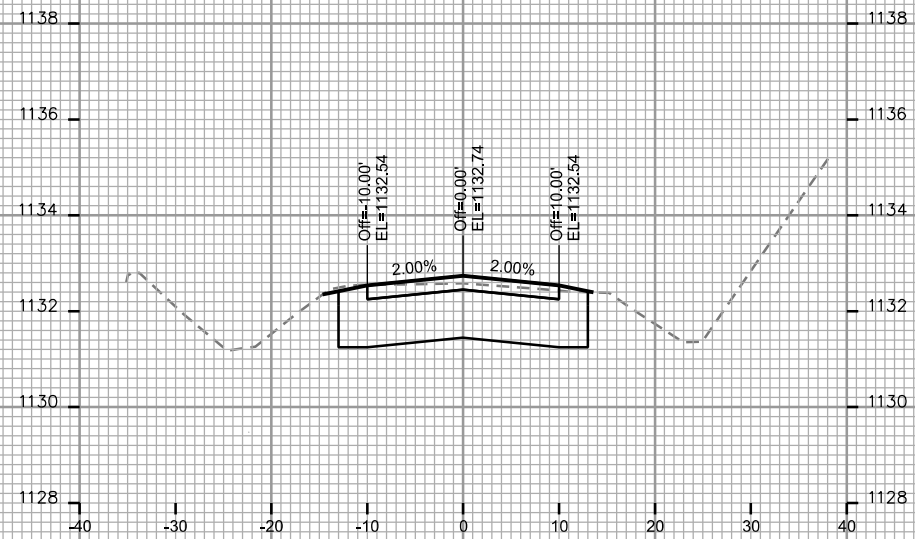
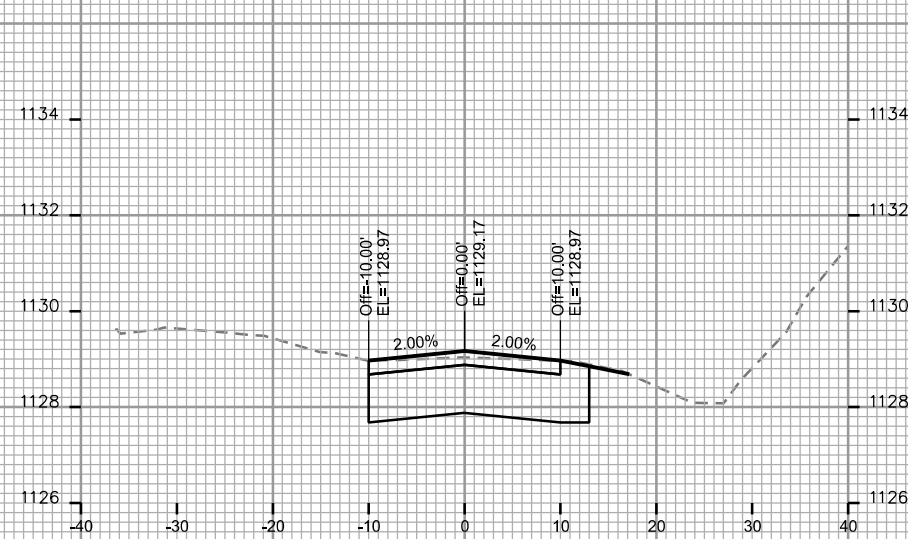
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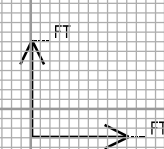
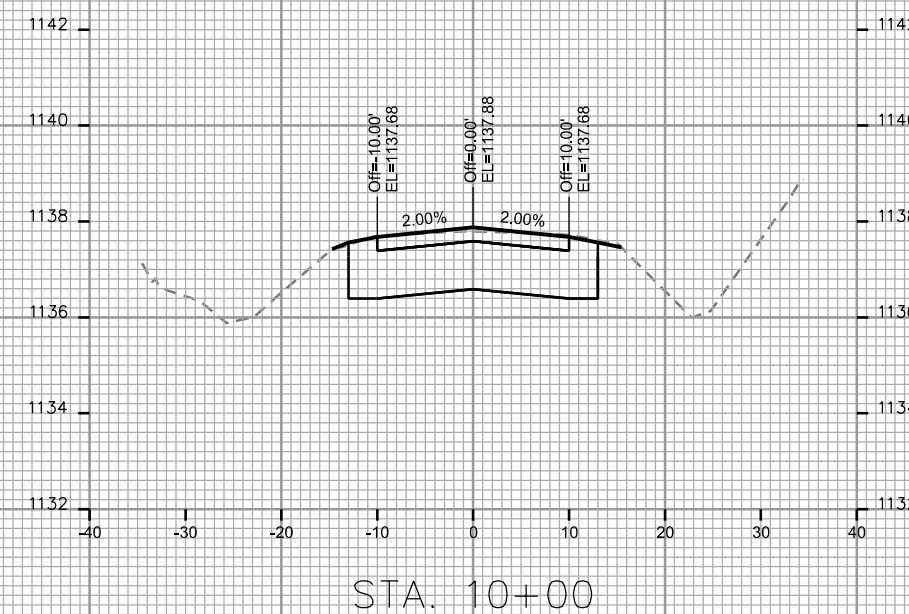
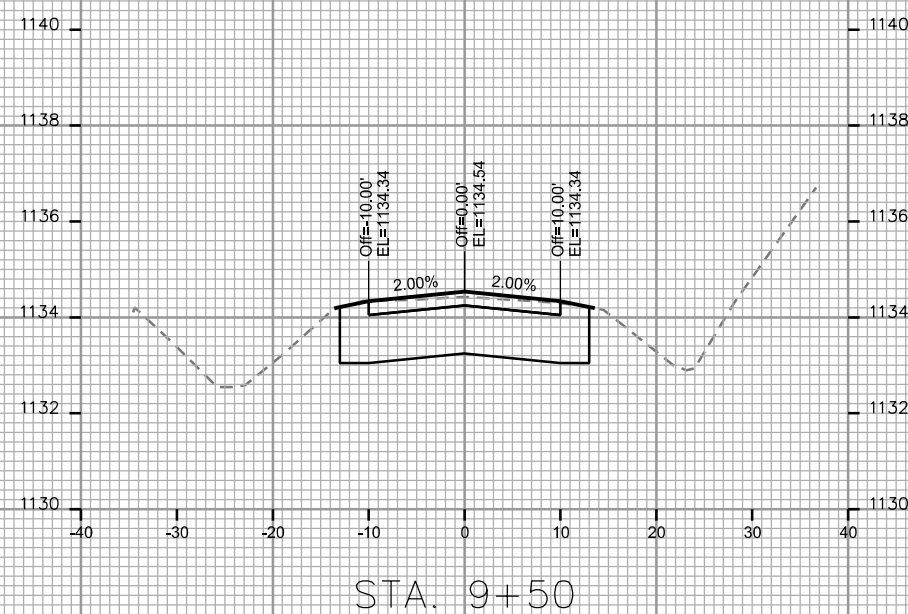
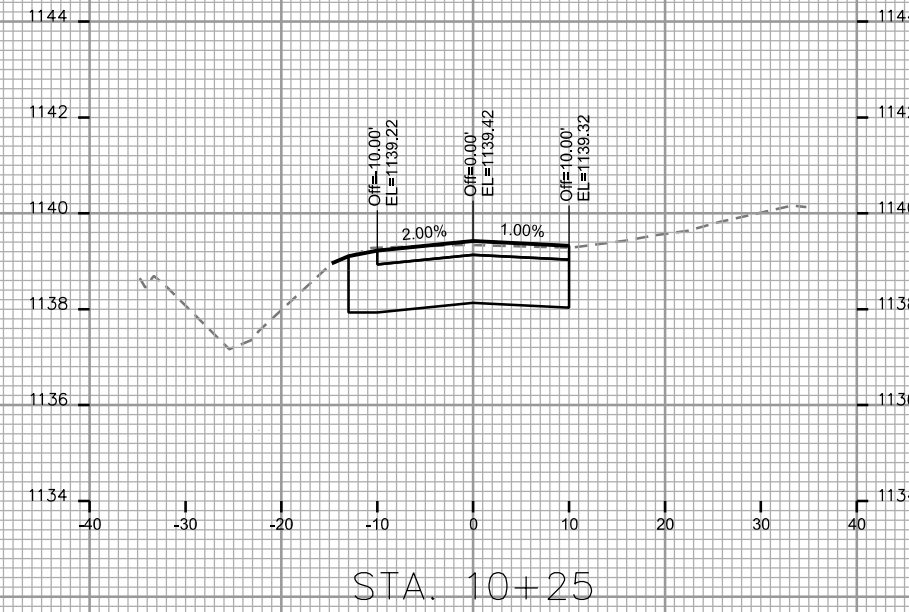
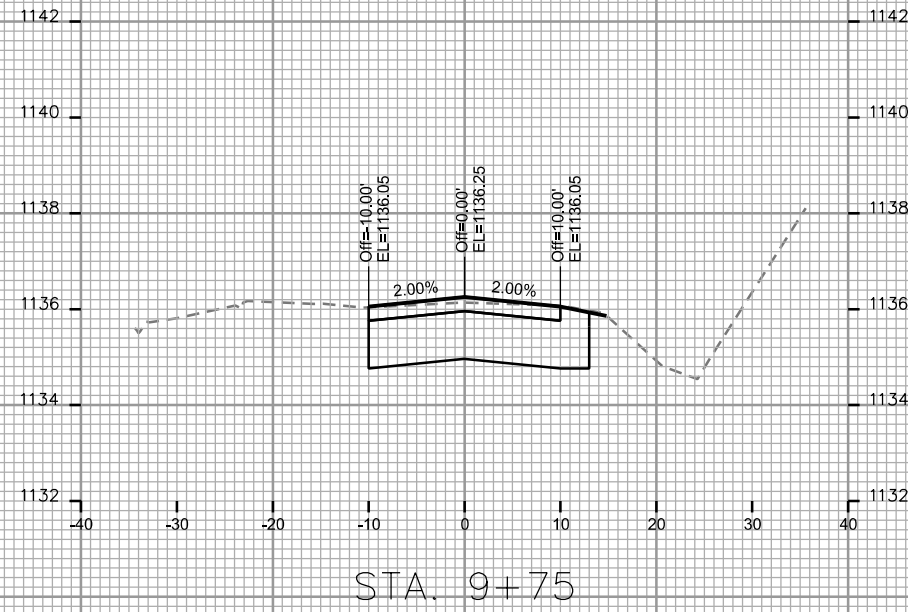
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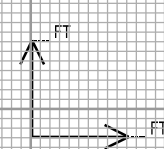
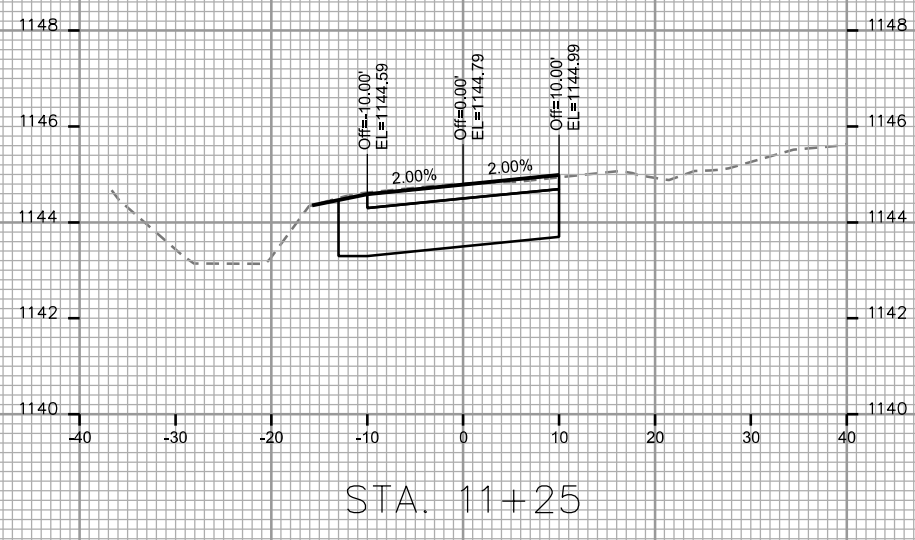
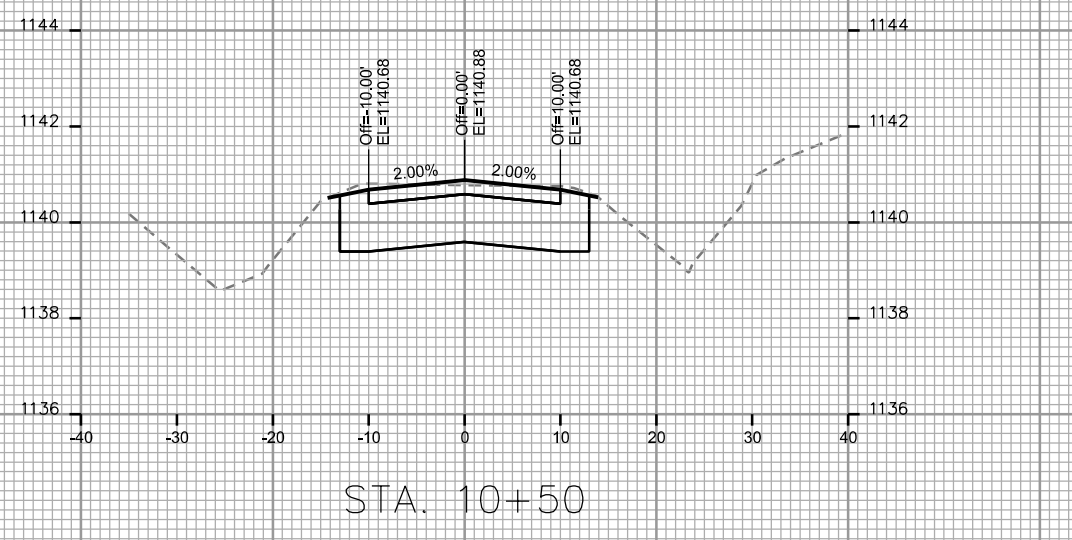
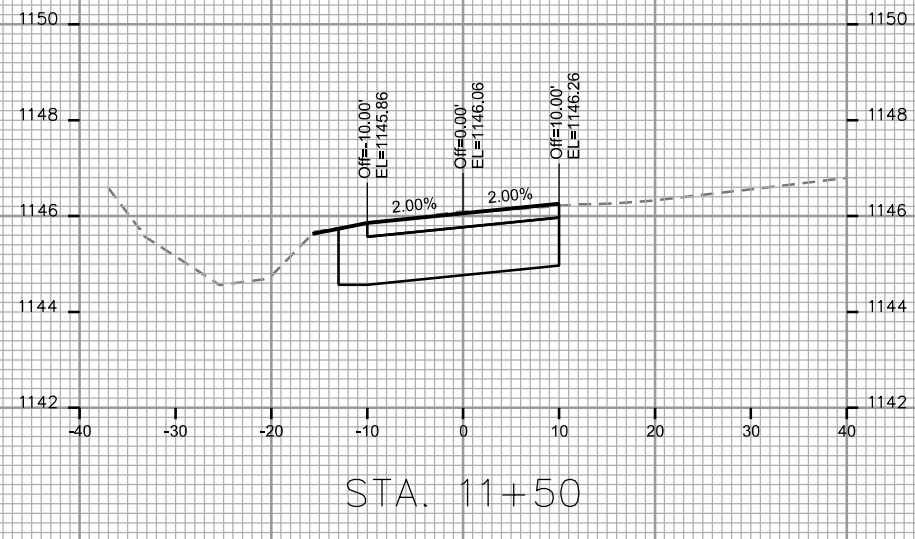
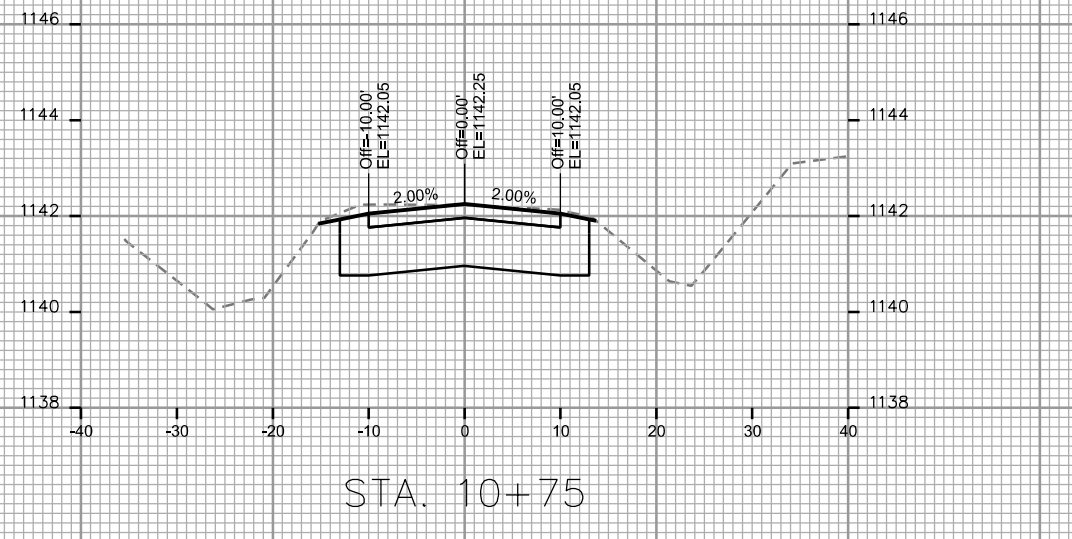
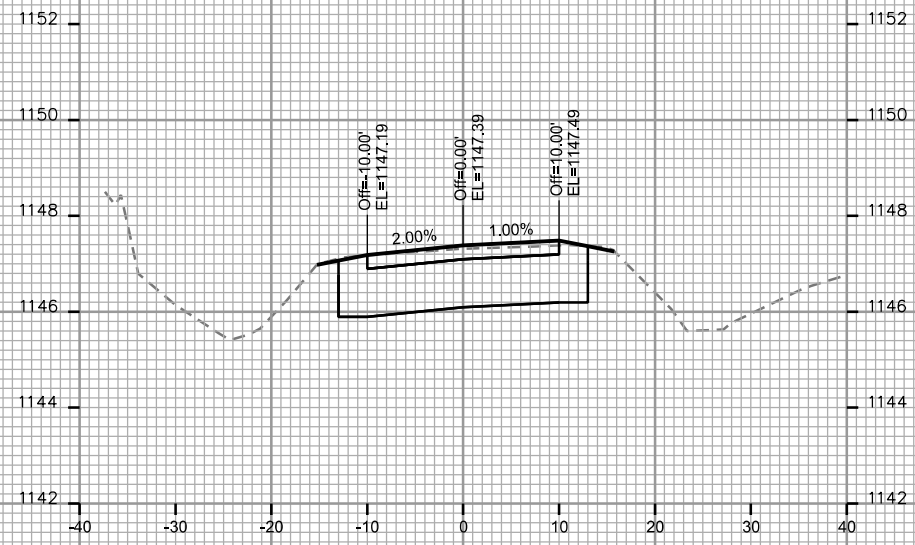
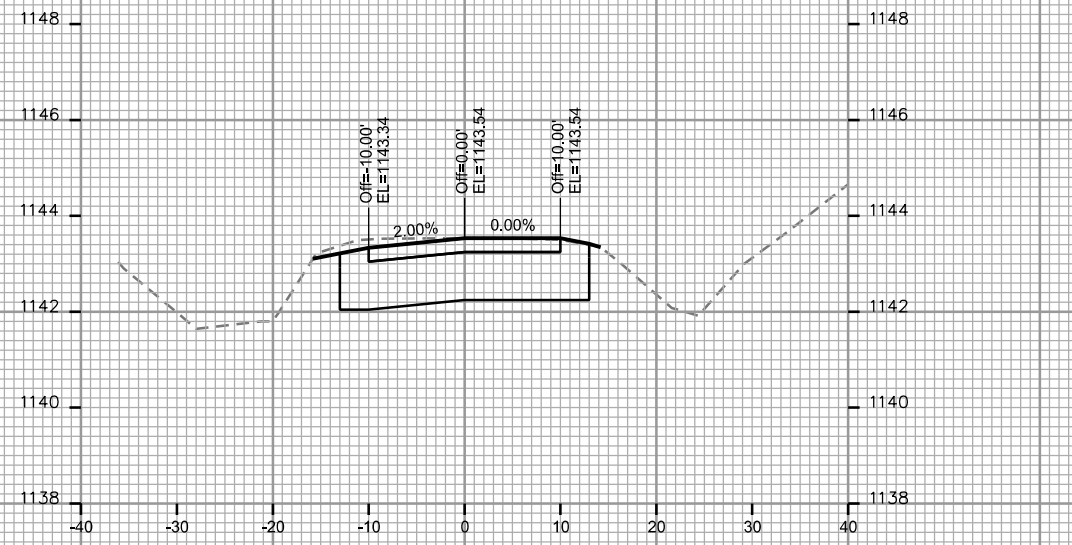
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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

PRAIRIE HILL ROAD

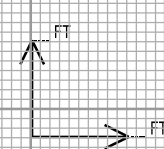
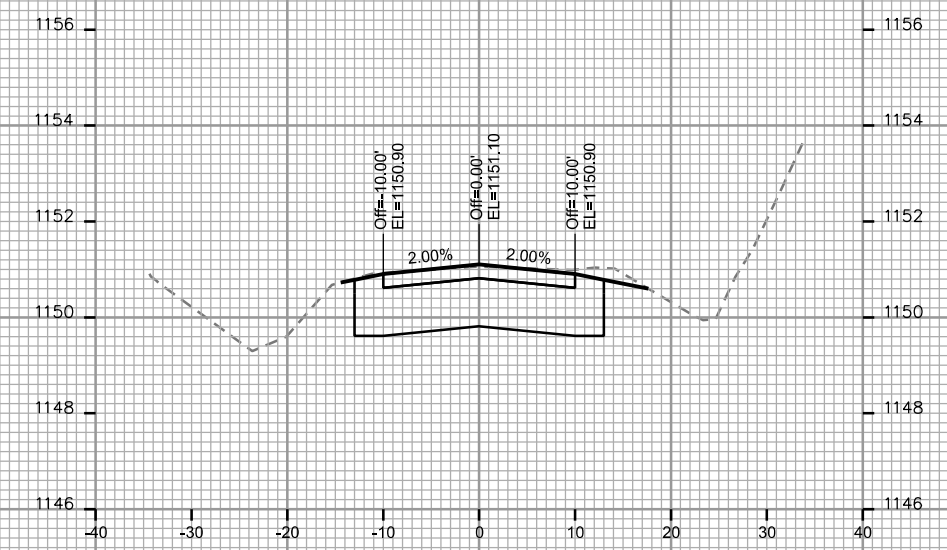
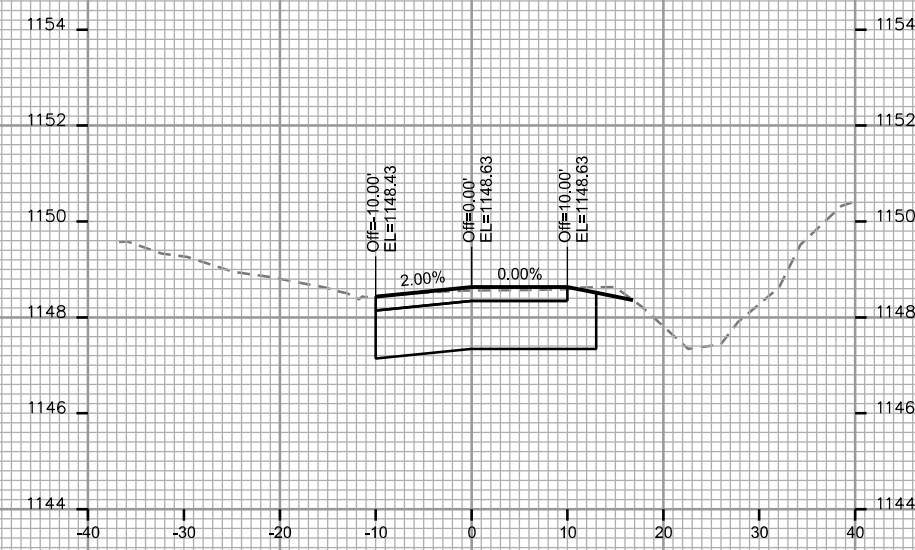
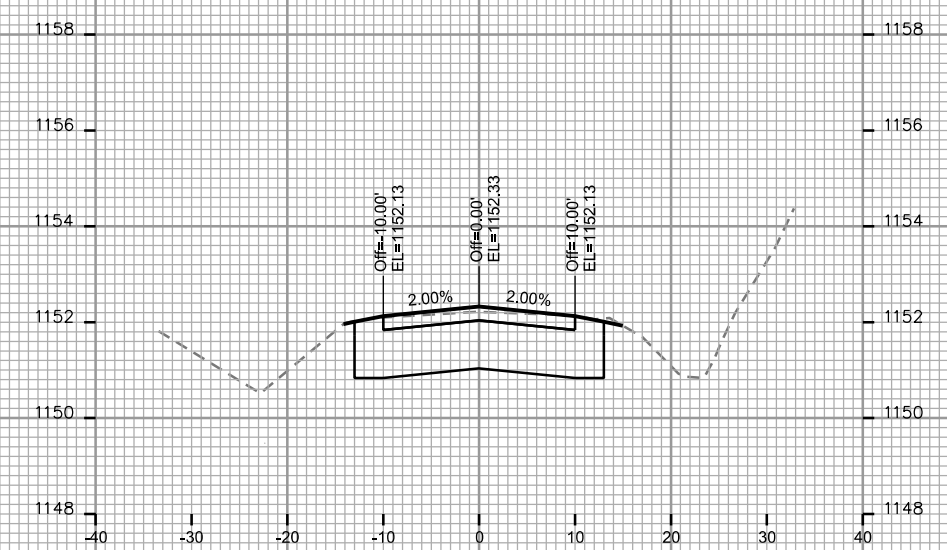
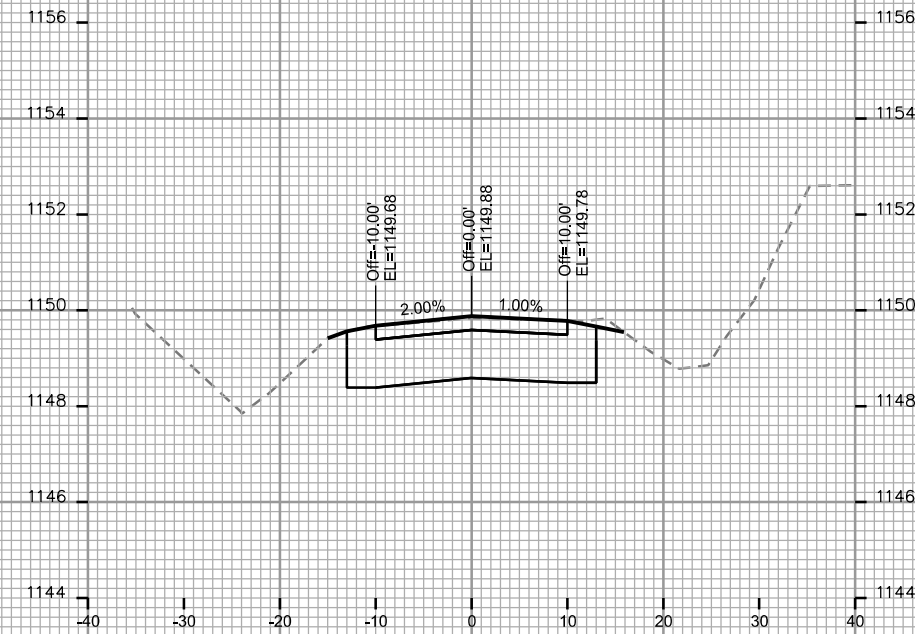
CITY OF MADISON

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

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CROSS SECTIONS

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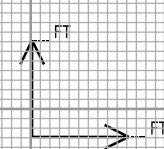
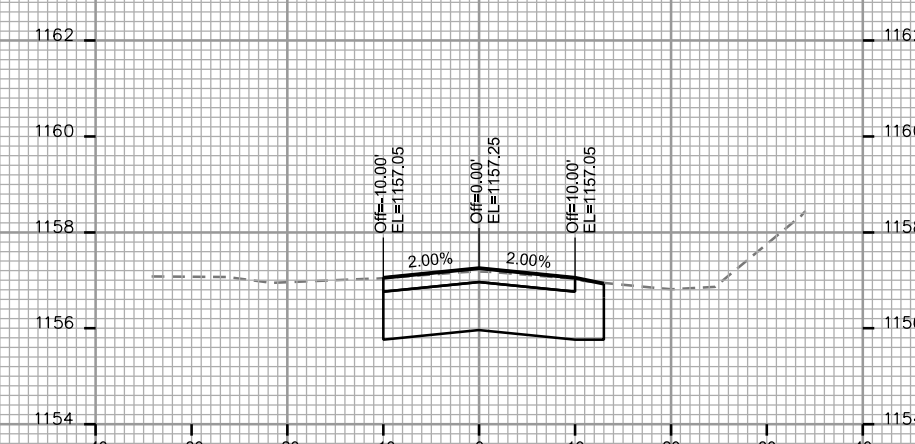
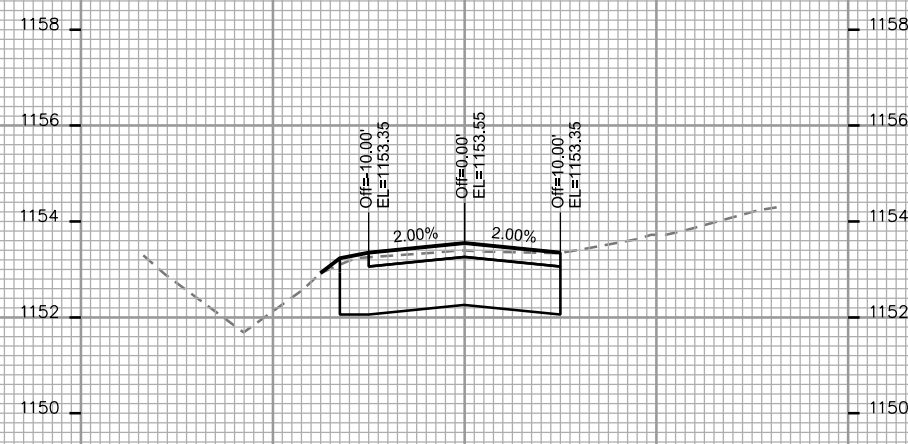
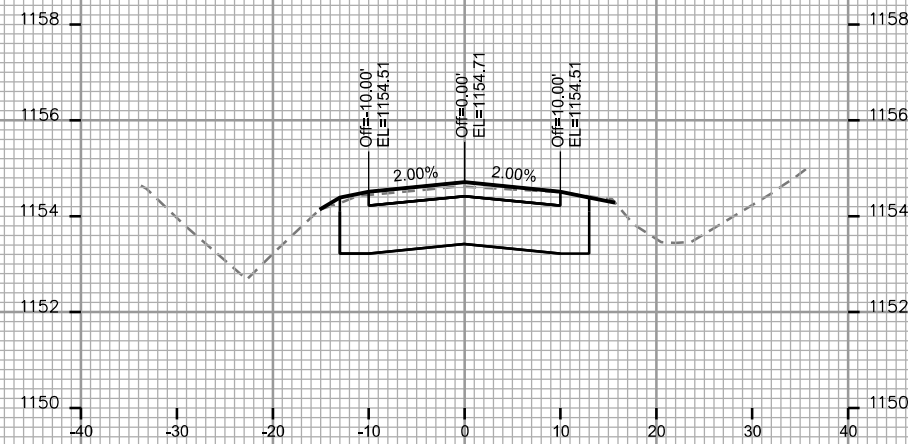
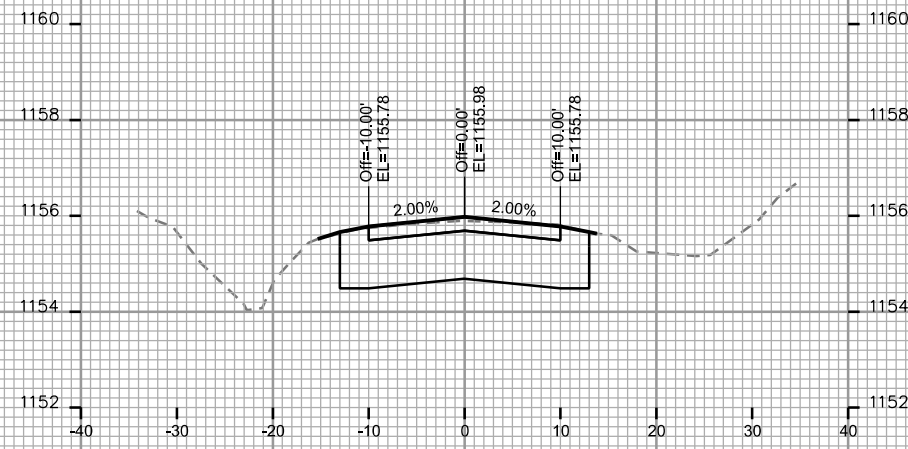
CITY OF MADISON

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CROSS SECTIONS

S. VIEW ROAD

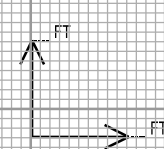
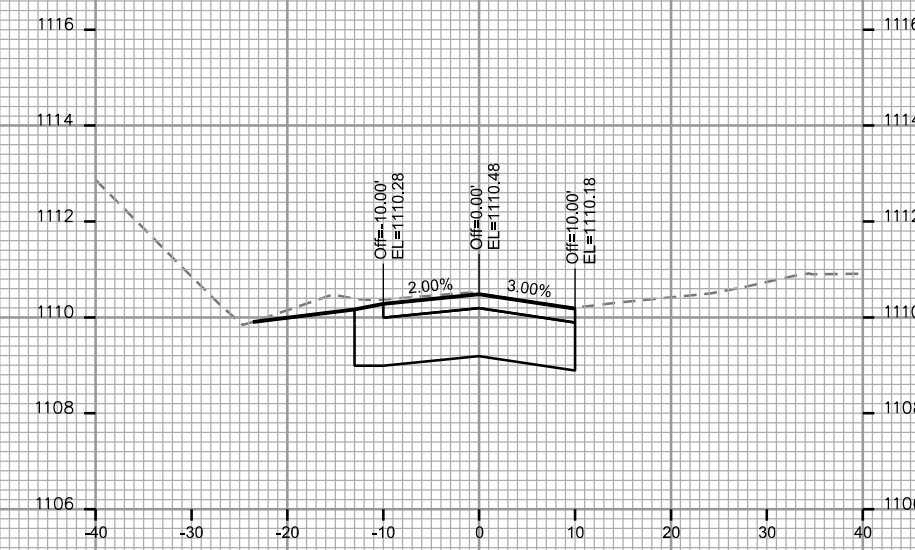
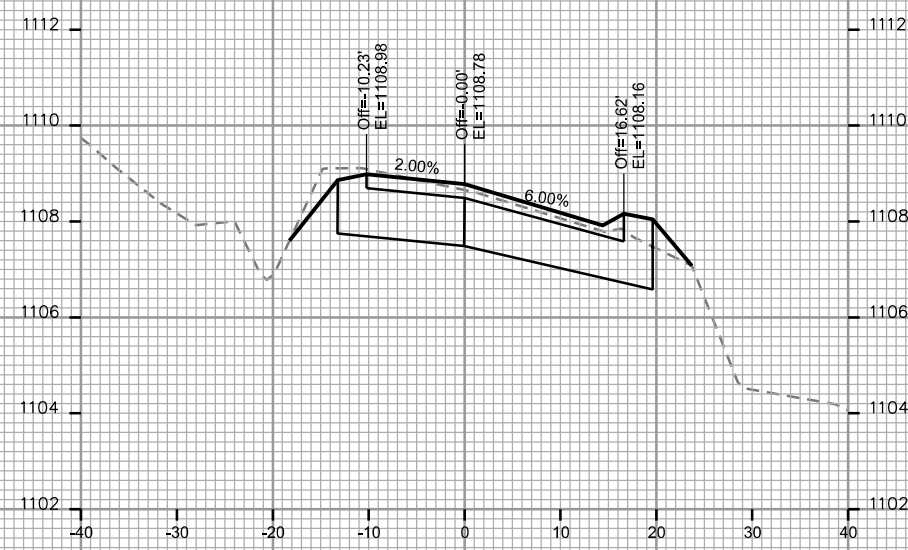
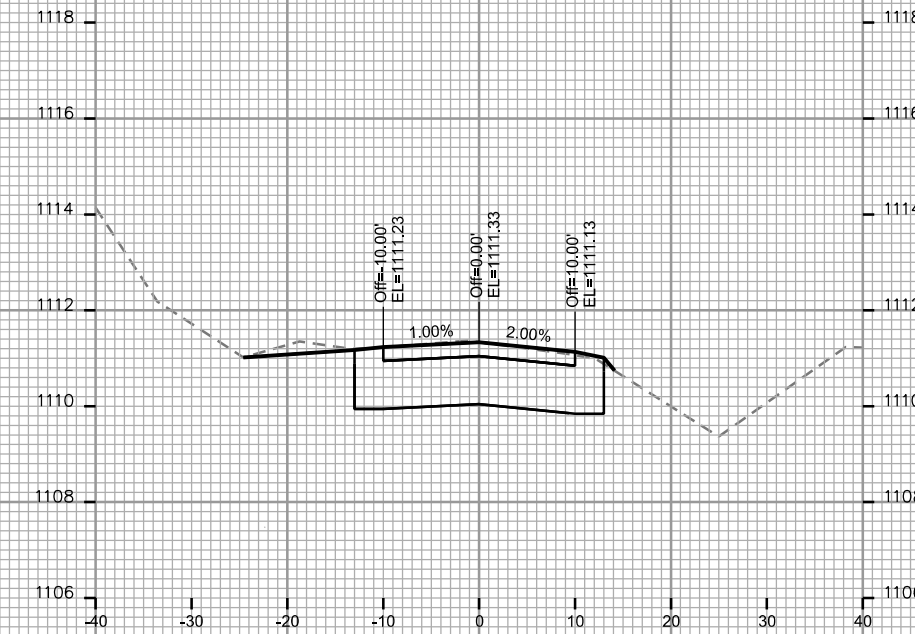
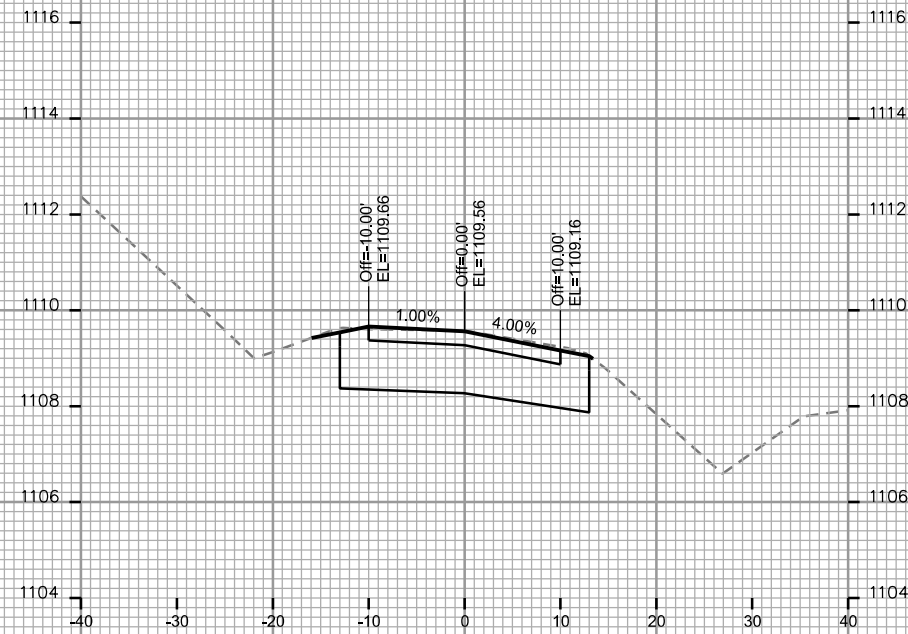
CITY OF MADISON

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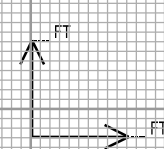
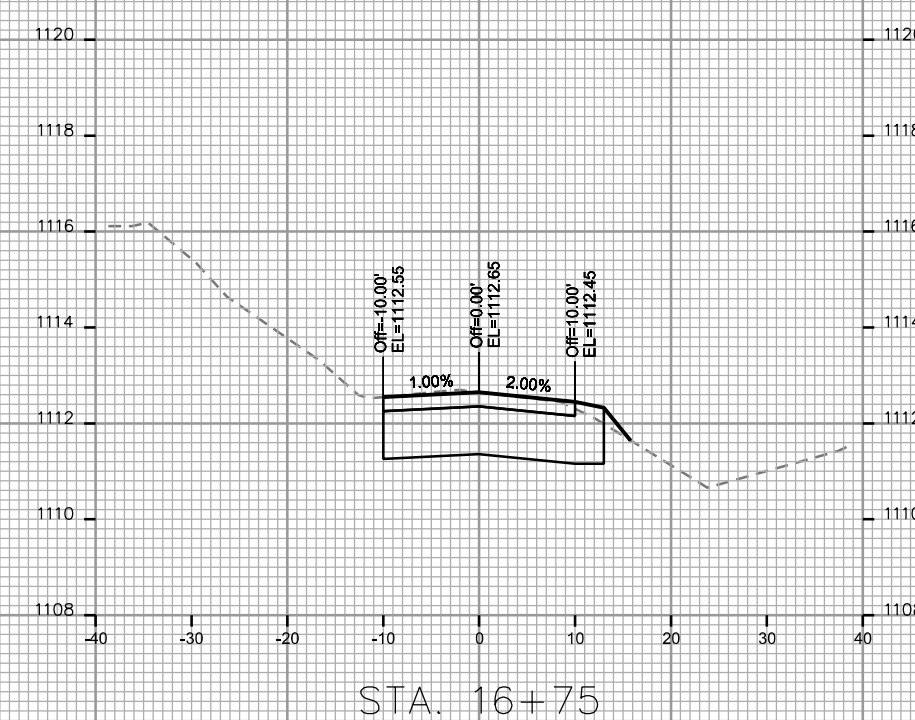
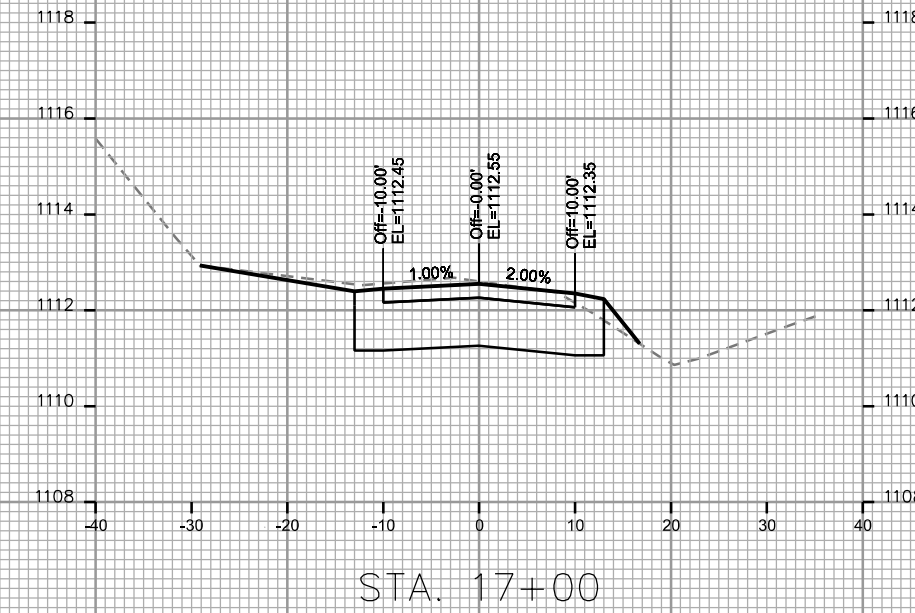
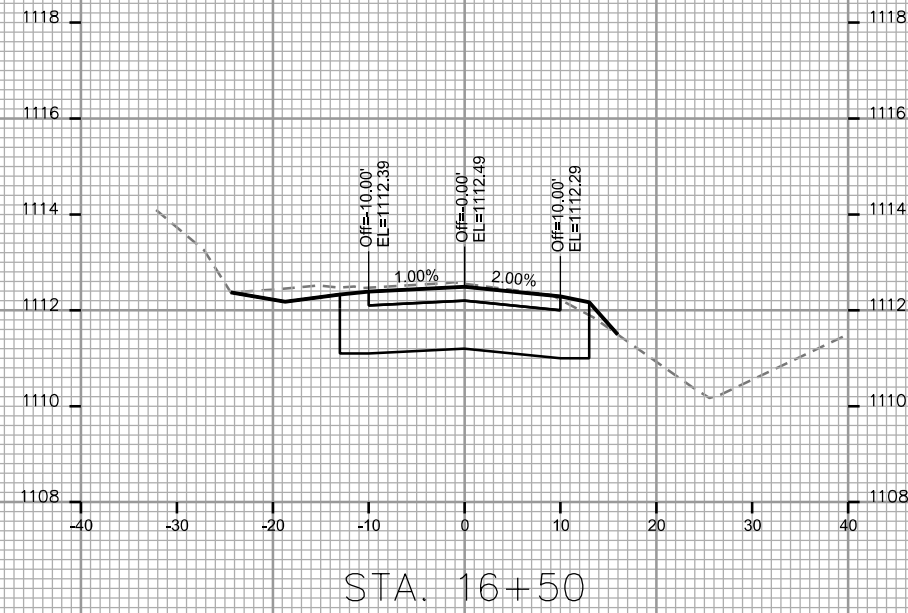
CITY OF MADISON

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

PRAIRIE HILL COURT

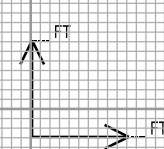
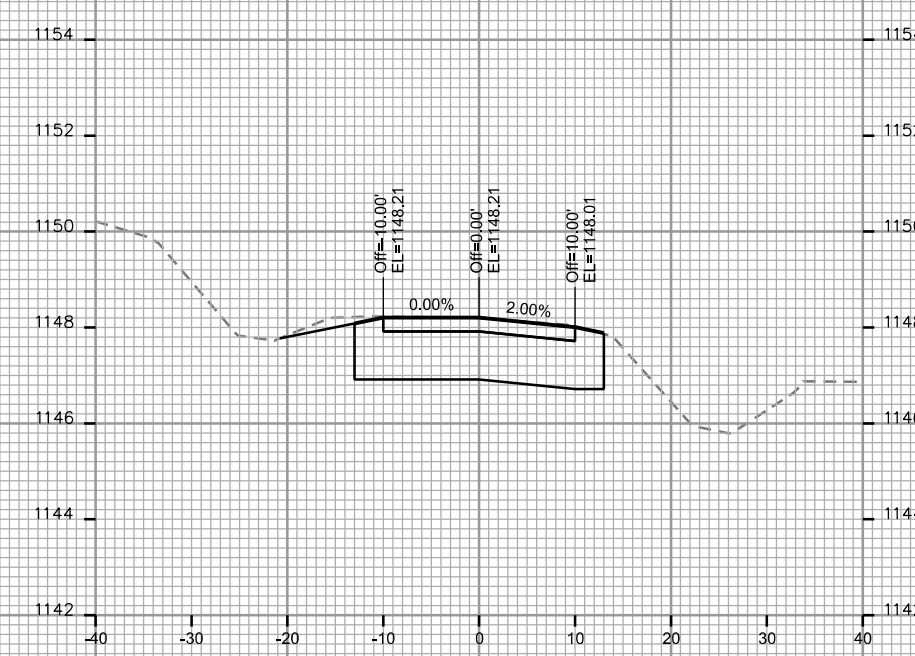
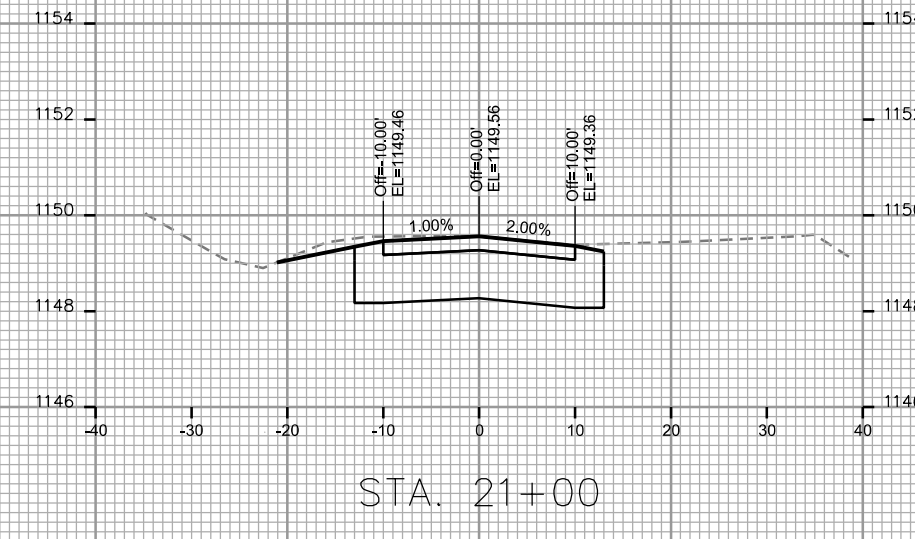
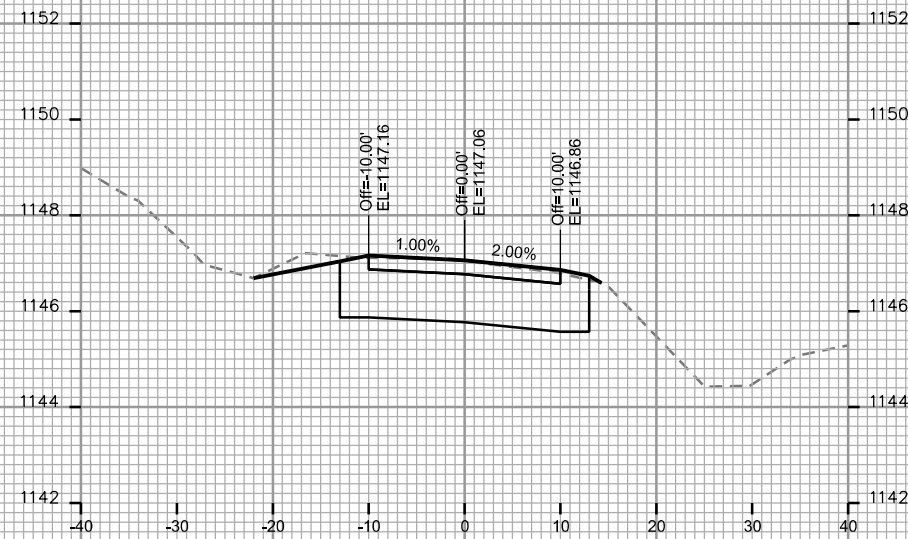
CITY OF MADISON

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CROSS SECTIONS

PRAIRIE HILL COURT

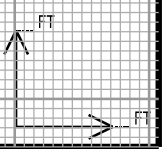
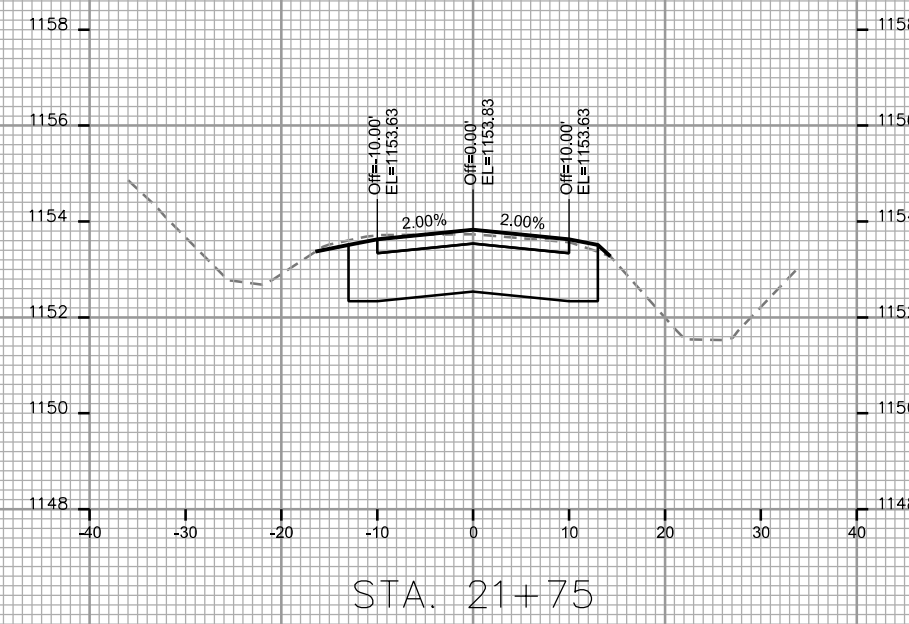
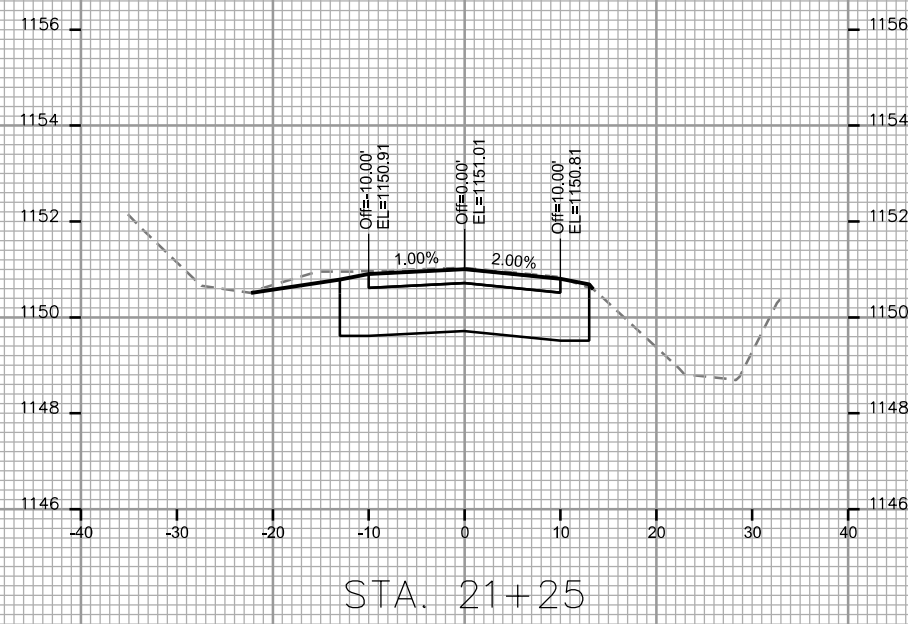
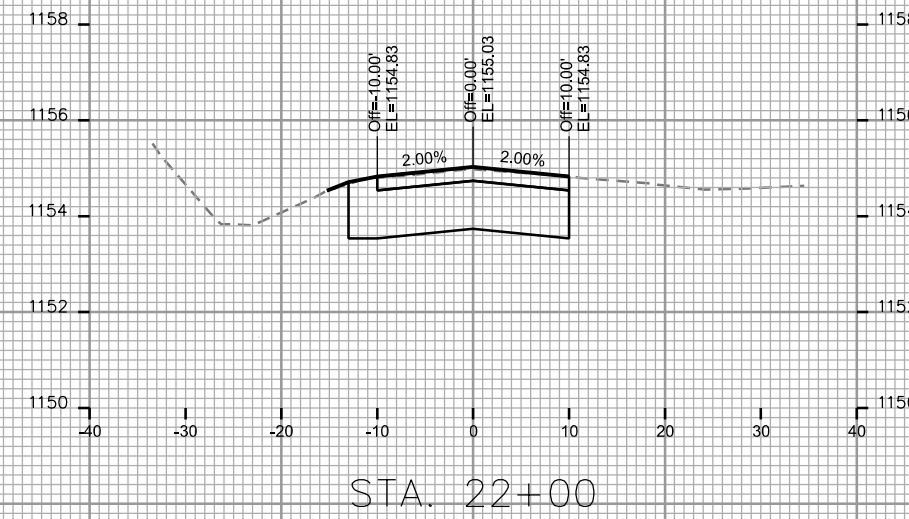
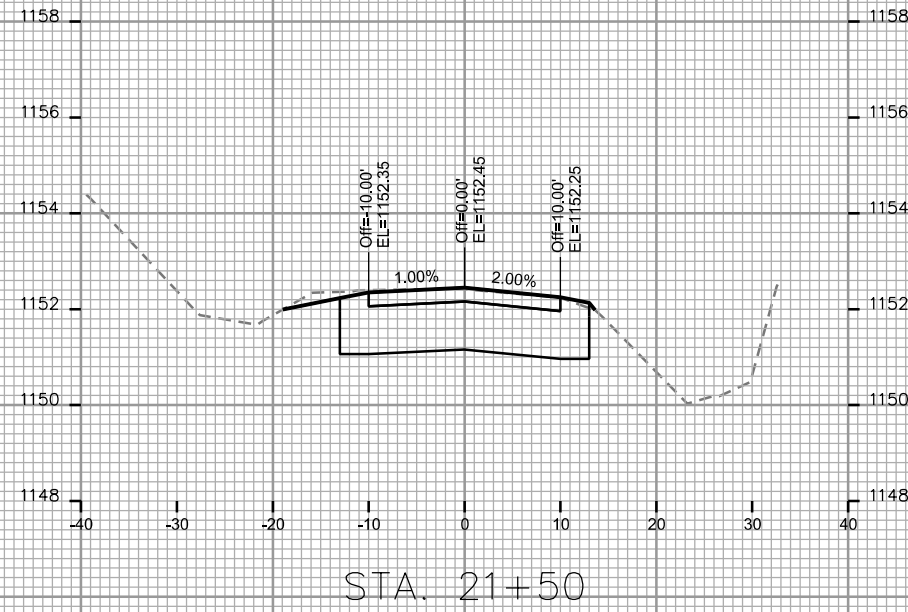
CITY OF MADISON

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CROSS SECTIONS

PRAIRIE HILL COURT

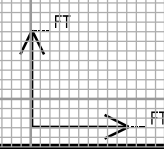
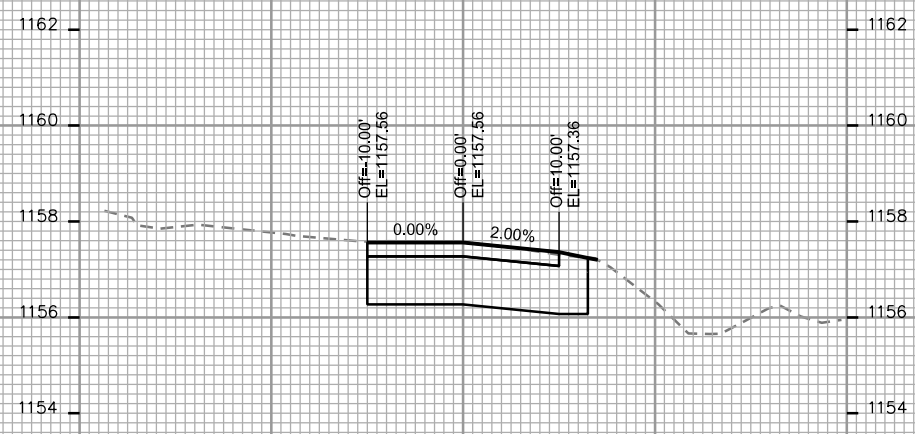
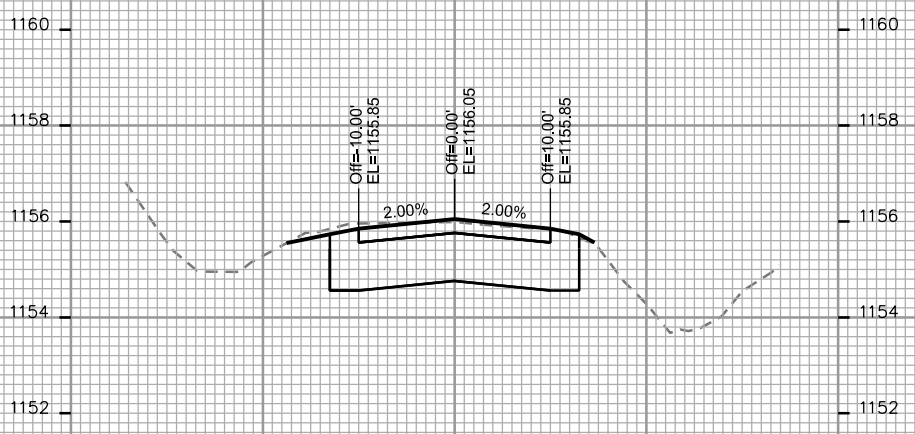
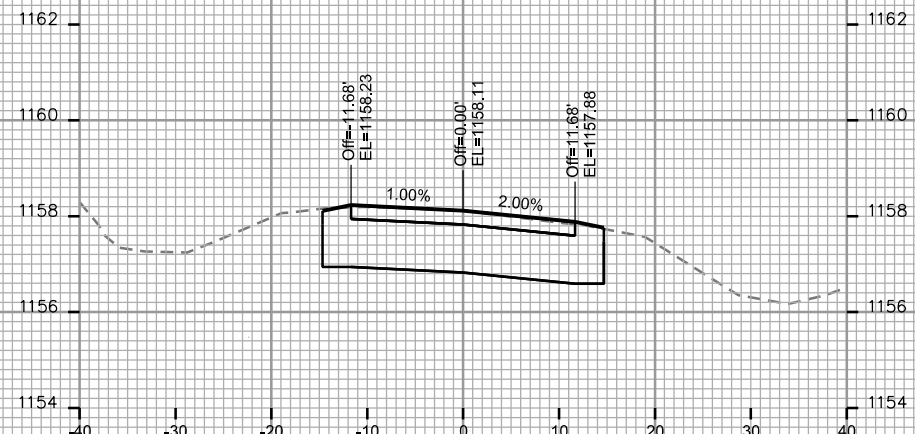
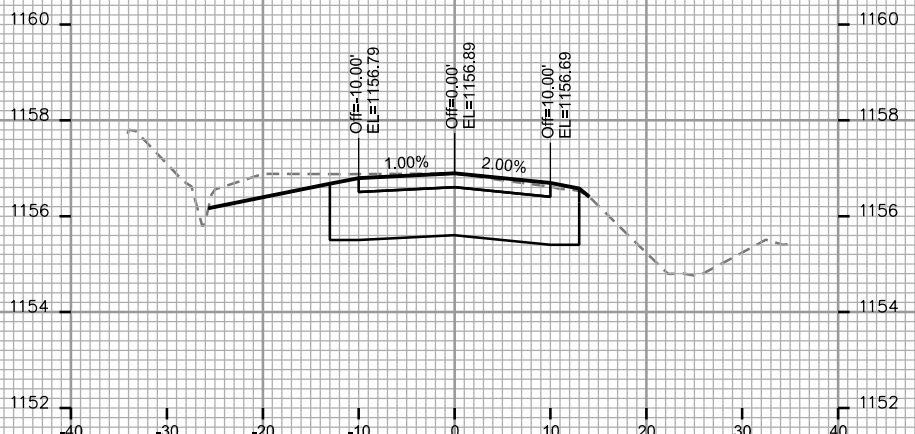
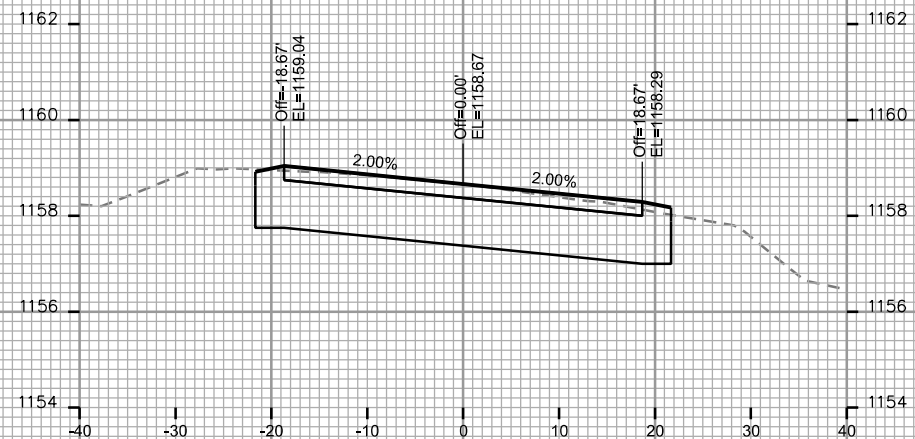
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