



Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

## 686 GRAND CANYON DRIVE

CITY PROJECT NO. 14937  
CONTRACT NO. 9148

### INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. D 1	STANDARD NOTES
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SHEET NO. X 1-X 2	CROSS SECTIONS
NO MAINTENANCE PLAN REQUIRED	

**REVISION 1 - 05/21/2024:**  
UPDATED SHEETS: P1, P2, P3, P4, U3, U4

**REVISION 2 - 07/15/2024:**  
UPDATED SHEETS: U1-U3, U4

PROJECT LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: MARCH 5, 2024

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Chris Petrykowski Apr 16, 2024

City Engineer Date

STREET DESIGNED BY:



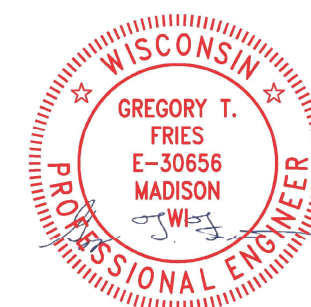
Apr 16, 2024

SANITARY SEWER DESIGNED BY:



Apr 16, 2024

STORM SEWER DESIGNED BY:



Apr 16, 2024

WATER DESIGNED BY:

LATERAL ONLY

PLOT SCALE: 1"=0' = 1"=0" XREF

PLOT NAME: ----

REV. DATE: 4/10/2024 11:24 AM

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, NASHALY GUTIERREZ, AT NGUTIERREZ@CITYOFMADISON.COM FOR CAD FILES AND ALIGNMENT DATA PRIOR TO STAKING.

**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>	

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.

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.

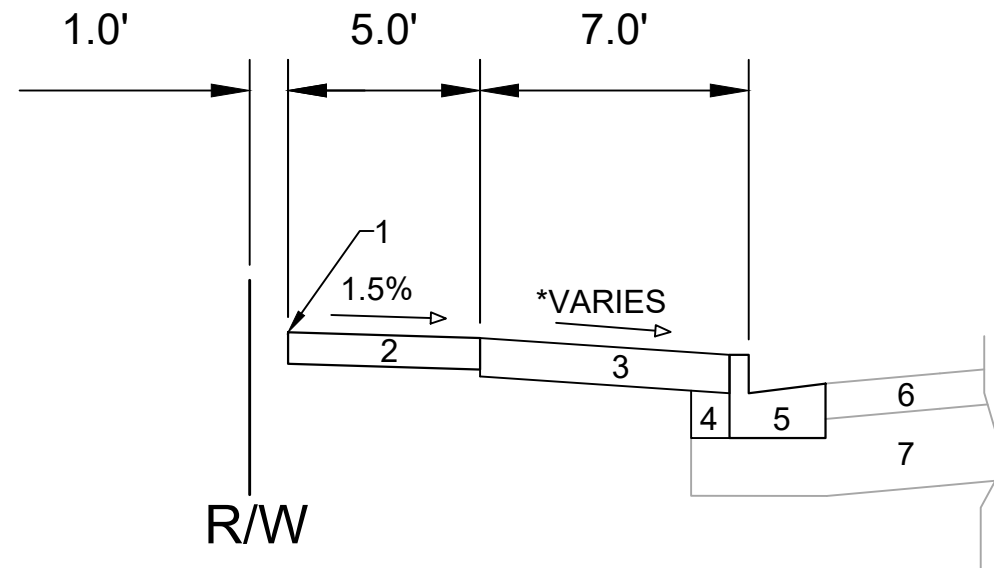
ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION.

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.

IN LOCATIONS WHERE PAVEMENT RESTORATION IS NOT IDENTIFIED ADJACENT TO CURB AND GUTTER REPLACEMENT, IT IS ASSUMED THAT CURB AND GUTTER WILL BE REPLACED WITHOUT DAMAGING ADJACENT PAVEMENT. IF DAMAGED, THE MILL AND OVERLAY LIMITS SHALL BE EXTENDED BY THE CITY CONSTRUCTION ENGINEER AS NECESSARY TO MEET THE STANDARD PATCHING CRITERIA.

14937	MADISON, WI	9148	D-1
STANDARD NOTES		CONTRACT NO:	
686 GRAND CANYON DRIVE		14937	
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14937		D-1	



TYPICAL SECTION  
GRAND CANYON DR

SPECIAL NOTES:

\*SEE X-SHEETS FOR CROSS SLOPES

- 1 POINT REFERRED TO ON PROFILE FOR B.W.
- 2 5" CONCRETE SIDEWALK
- 3 6" TOPSOIL, SEED & MAT
- 4 EX. FILL TO REMAIN, INSTALL AT CURB REPLACEMENT LOCATIONS
- 5 EX. TYPE "A" CONCRETE CURB & GUTTER, REPLACE AT LOCATIONS IDENTIFIED ON P-SHEETS
- 6 EX. PAVEMENT TO REMAIN
- 7 EX. ROAD BASE TO REMAIN

MARK	REVISION	DATE	BY
14937	4/16/2024 10:42 AM		

14937  
MADISON, WI  
14937  
9148  
CONTRACT NO:

TYPICAL SECTIONS  
686 GRAND CANYON DRIVE  
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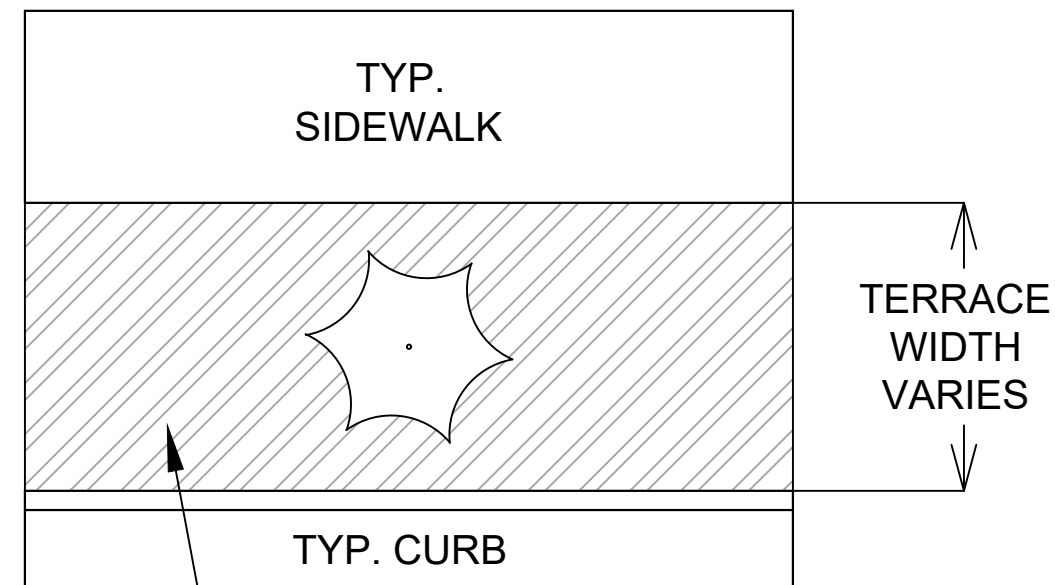
**TERRACE EXCAVATION FOR TREE PLANTING:**

THIS INCLUDES ALL WORK NECESSARY TO EXCAVATE AREAS WITHIN GRASS TERRACES TO AN APPROPRIATE DEPTH SUITABLE FOR NEW TREE PLANTINGS. ALL WORK SHALL BE IN ACCORDANCE WITH ARTICLE 201 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND FORESTRY REPRESENTATIVE TO SELECT THE APPROPRIATE LOCATIONS FOR TREE PLANTINGS TO BE COMPLETED.

ONCE THE LOCATIONS MARKED, THE CONTRACTOR SHALL EXCAVATE THE TERRACE AREA TO A SUITABLE DEPTH FOR NEW TREE PLANTINGS, APPROXIMATELY TWENTY (20) INCHES TO TWENTY-FOUR (24) INCHES. THE TERRACE SHALL BE EXCAVATED TO A MINIMUM LENGTH OF TWENTY (20) FEET, BUT THAT MAY BE REDUCED BY THE CONSTRUCTION ENGINEER TO FIT SITE CONSTRAINTS AS NECESSARY. THE WIDTH OF THE TERRACE SHALL ALSO BE EXCAVATED TO AS CLOSE TO THE SIDEWALK/PATH AND CURB AS IS REASONABLE. WHILE PERFORMING THE EXCAVATION, THE CONTRACTOR SHALL TAKE CARE TO NOT UNDERMINE OR DAMAGE THE ADJACENT CURB OR SIDEWALK. IF DAMAGED DURING THE EXCAVATION PROCESS, THE DEVELOPER SHALL REPLACE CURB OR SIDEWALK/PATH AT THEIR COST.

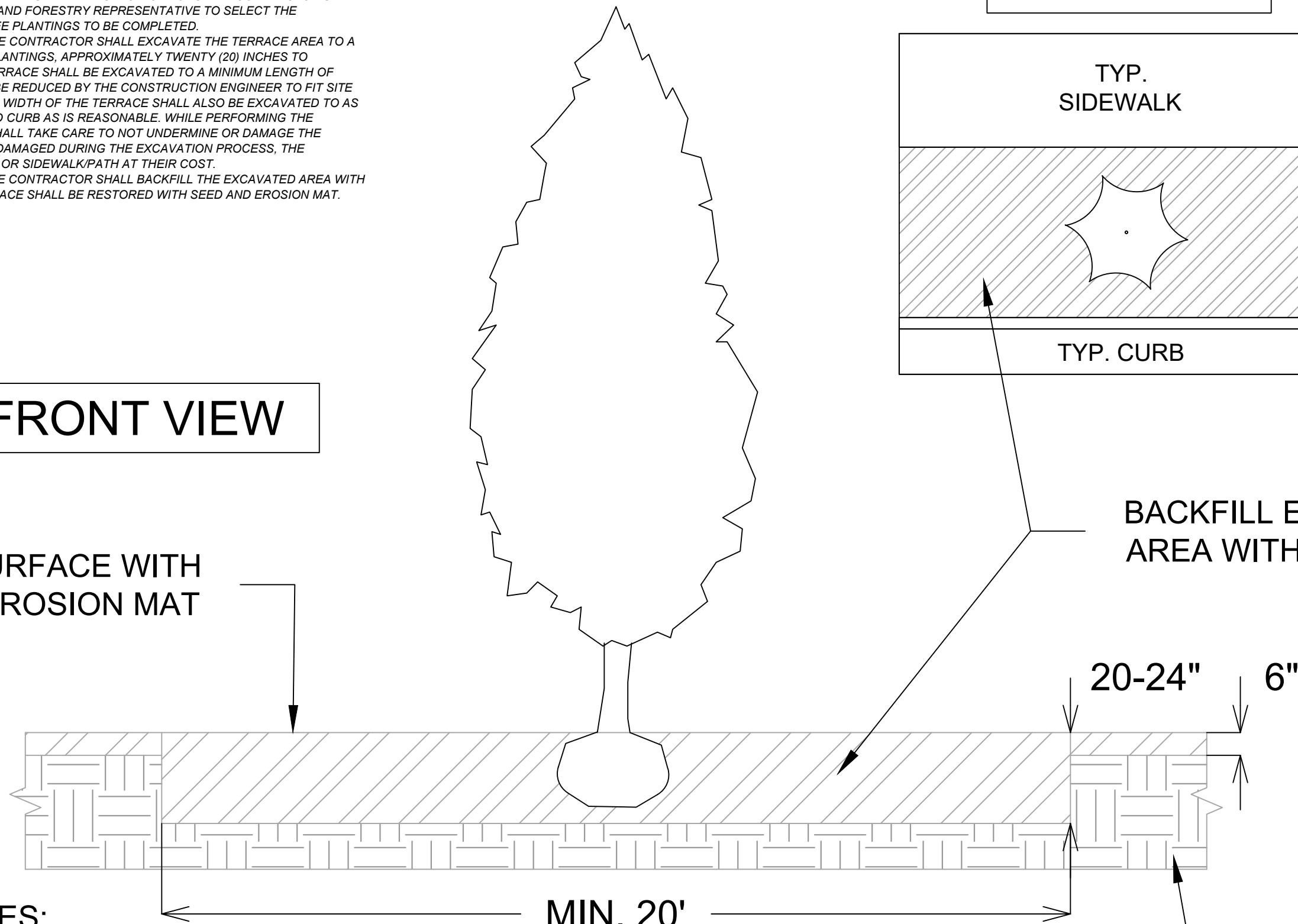
ONCE THE AREA IS EXCAVATED, THE CONTRACTOR SHALL BACKFILL THE EXCAVATED AREA WITH REGULAR TOPSOIL, AND THE SURFACE SHALL BE RESTORED WITH SEED AND EROSION MAT.

**TOP VIEW**



**FRONT VIEW**

RESTORE SURFACE WITH SEED AND EROSION MAT



BACKFILL EXCAVATED AREA WITH TOPSOIL

**SPECIAL NOTES:**

REFER TO S.D.D. 2.01 FOR STANDARD PLANTING TECHNIQUE FOR TREES IN TURF AREAS.

DATE	BY
REVISION	DATE
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14937	DATE: 4/16/2024 10:42 AM
14937	SCALE:

14937  
MADISON, WI  
9148  
CONTRACT NO:

TERRACE EXCAVATION FOR TREE PLANTING  
686 GRAND CANYON DRIVE  
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14937  
D-3

W PLATTE DRIVE

686 GRAND CANYON DRIVE

GRAND CANYON DRIVE

PROPOSED 2" LONDON PLANETREE EXCLAMATION

PROPOSED 2" SWAMP WHITE OAK

PROPOSED 2" HACKBERRY

PROPOSED 2" LINDEN "SWEET STREET"

PROPOSED 2" STREETKEEPER HONEY LOCUST

NOTES:


1. CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER AT LEAST ONE WEEK PRIOR TO STREET PLANTING.
2. FOR NEW TREE PLANTINGS REFER TO SHEET D-3 FOR TERRACE EXCAVATION FOR TREE PLANTING DETAILS.



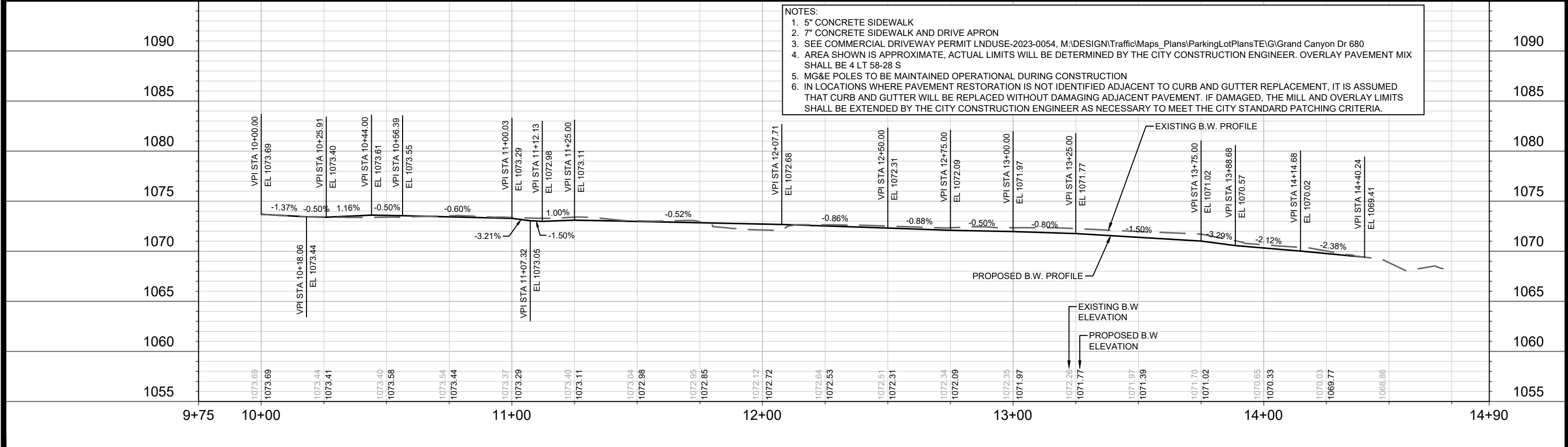
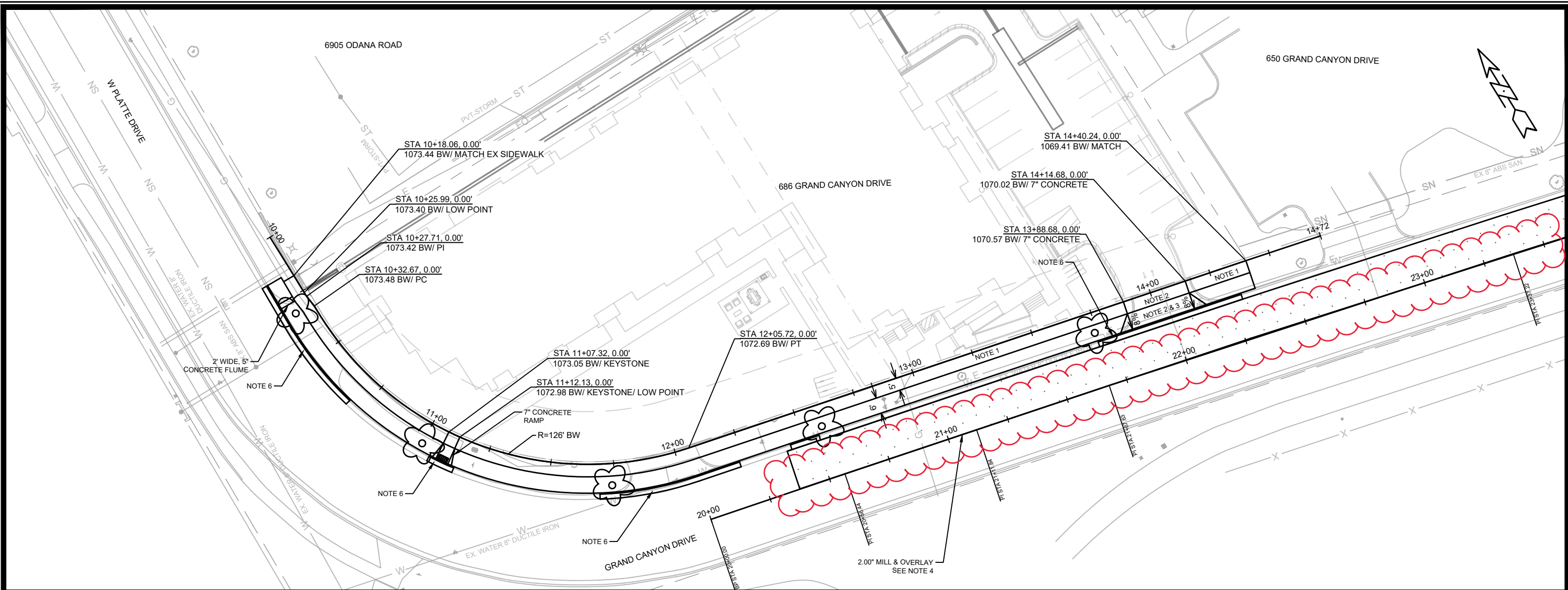
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14937  
MADISON, WI  
CONTRACT NO: 9148

LANDSCAPING PLAN  
686 GRAND CANYON DRIVE  
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L-1



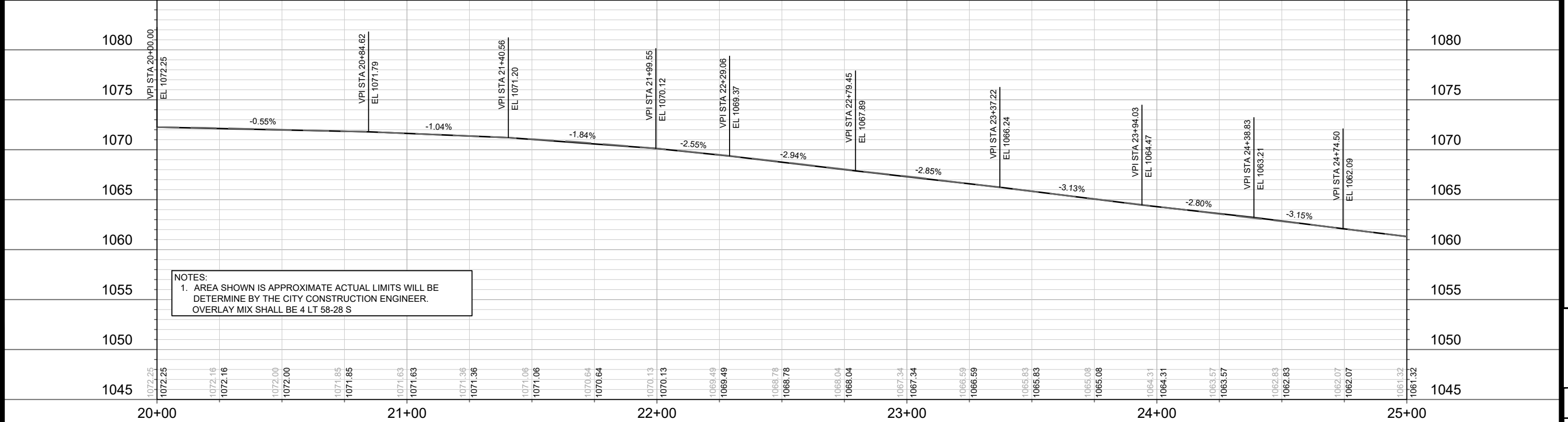
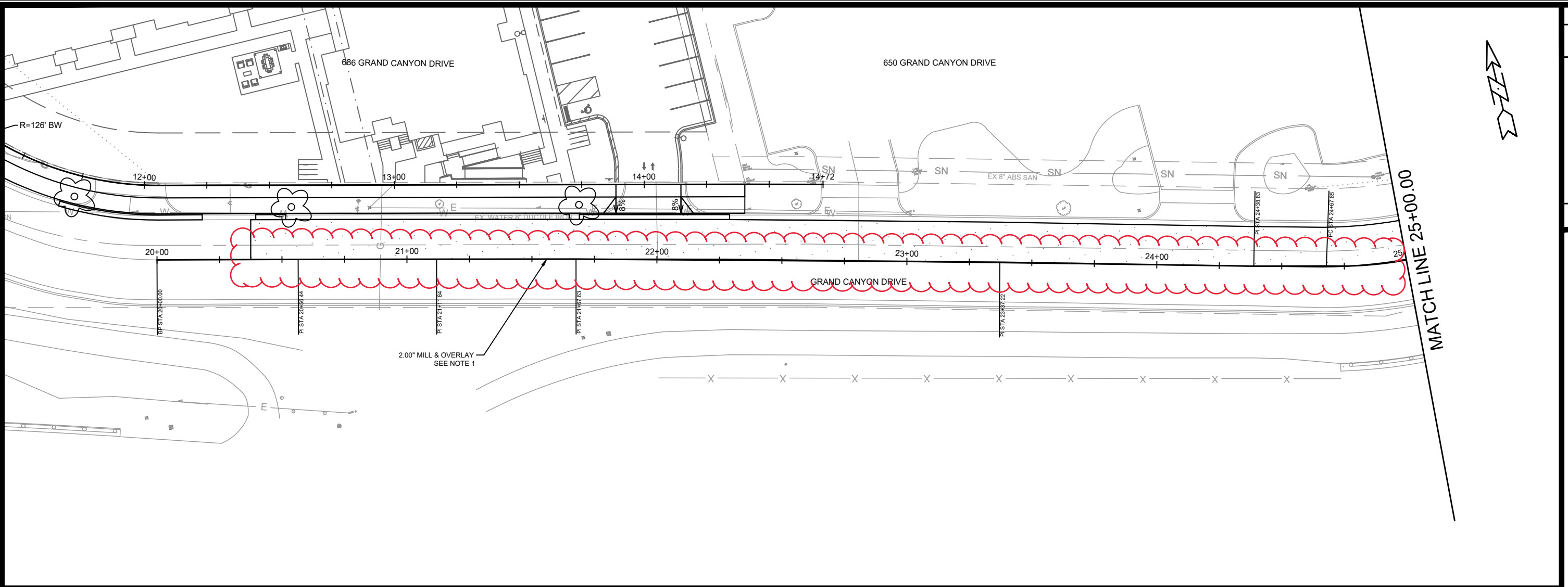
NOTES:  
 1. 5" CONCRETE SIDEWALK  
 2. 7" CONCRETE SIDEWALK AND DRIVE APRON  
 3. SEE COMMERCIAL DRIVEWAY PERMIT LNDUSE-2023-0054, M:\DESIGN\Traffic\Maps\_Plans\ParkingLotPlans\TE\G\Grand Canyon Dr 680  
 4. AREA SHOWN IS APPROXIMATE, ACTUAL LIMITS WILL BE DETERMINED BY THE CITY CONSTRUCTION ENGINEER. OVERLAY PAVEMENT MIX SHALL BE 4 LT 58-28 S  
 5. MG&E POLES TO BE MAINTAINED OPERATIONAL DURING CONSTRUCTION  
 6. IN LOCATIONS WHERE PAVEMENT RESTORATION IS NOT IDENTIFIED ADJACENT TO CURB AND GUTTER REPLACEMENT, IT IS ASSUMED THAT CURB AND GUTTER WILL BE REPLACED WITHOUT DAMAGING ADJACENT PAVEMENT. IF DAMAGED, THE MILL AND OVERLAY LIMITS SHALL BE EXTENDED BY THE CITY CONSTRUCTION ENGINEER AS NECESSARY TO MEET THE CITY STANDARD PATCHING CRITERIA.

DATE	BY
REVISION	DATE
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14937	P-1

14937  
 MADISON, WI  
 9148  
 CONTRACT NO:

PLAN & PROFILE - GRAND CANYON DR  
 686 GRAND CANYON DRIVE  
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14937  
 P-1



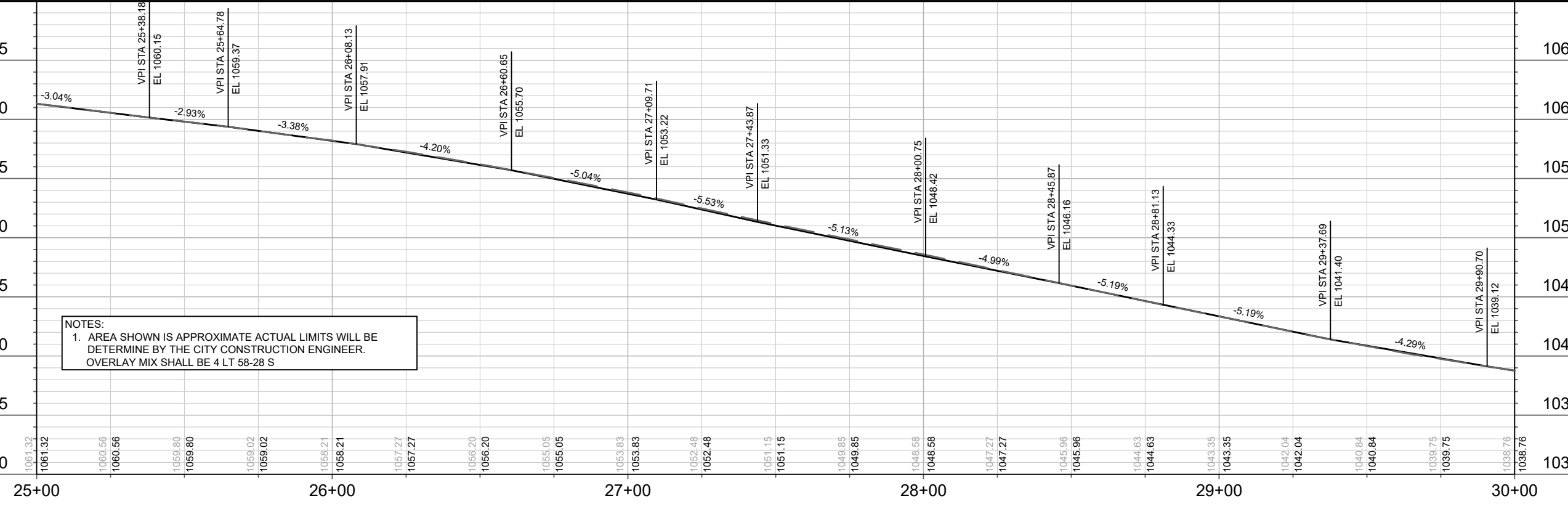
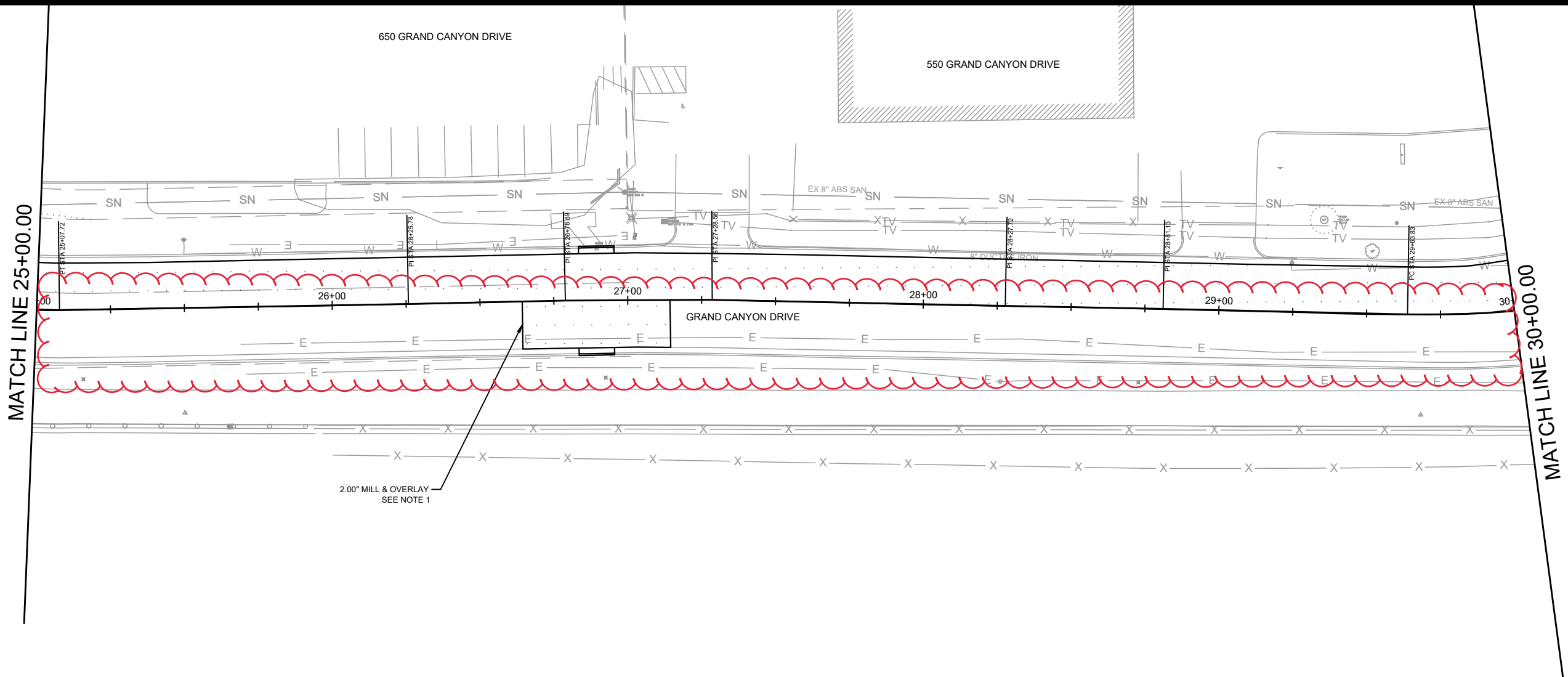
NOTES:  
 1. AREA SHOWN IS APPROXIMATE ACTUAL LIMITS WILL BE DETERMINE BY THE CITY CONSTRUCTION ENGINEER.  
 OVERLAY MIX SHALL BE 4 LT 58-28 S

MARK	REVISION	DATE	BY
Designed By: ##	Date: 5/15/2024 9:28 AM	Scale: 1" = 40'	
14937	14937		P-2

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 MADISON, WI  
 686 GRAND CANYON DRIVE  
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 CONTRACT NO.: 9148

CITY OF MADISON  
 WISCONSIN

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 P-2



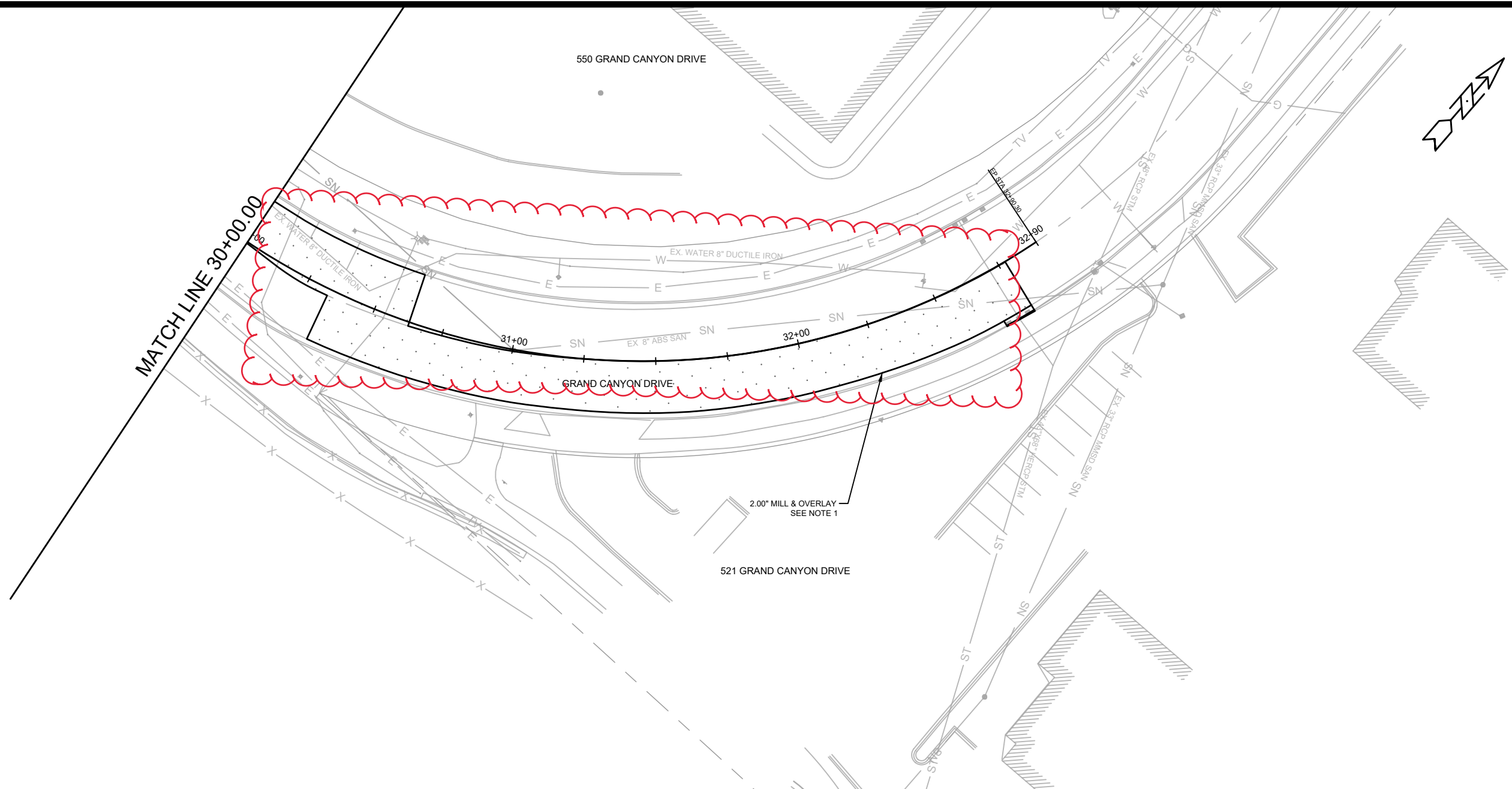
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 OVERLAY MIX SHALL BE 4 LT 58-28 S

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Designated By: #	14937
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14937  
 MADISON, WI  
 686 GRAND CANYON DRIVE  
 CONTRACT NO: 9148

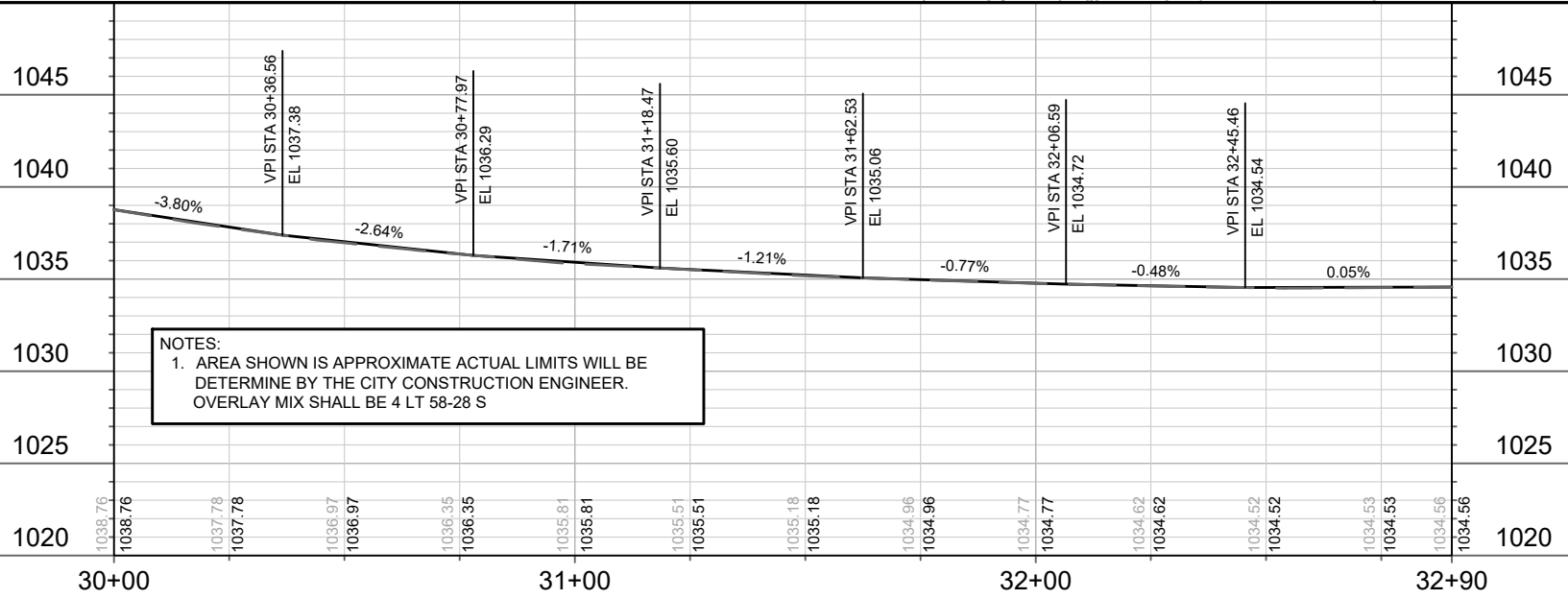
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 P-3





MATCH LINE 30+00.00

2.00" MILL & OVERLAY  
SEE NOTE 1

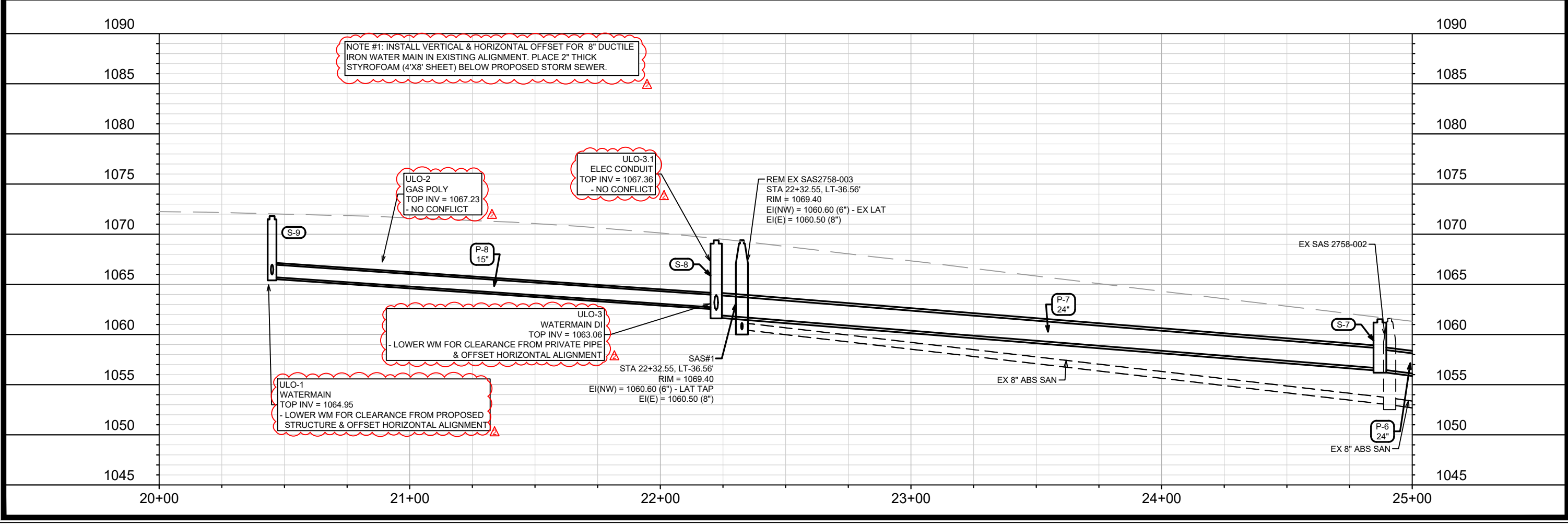
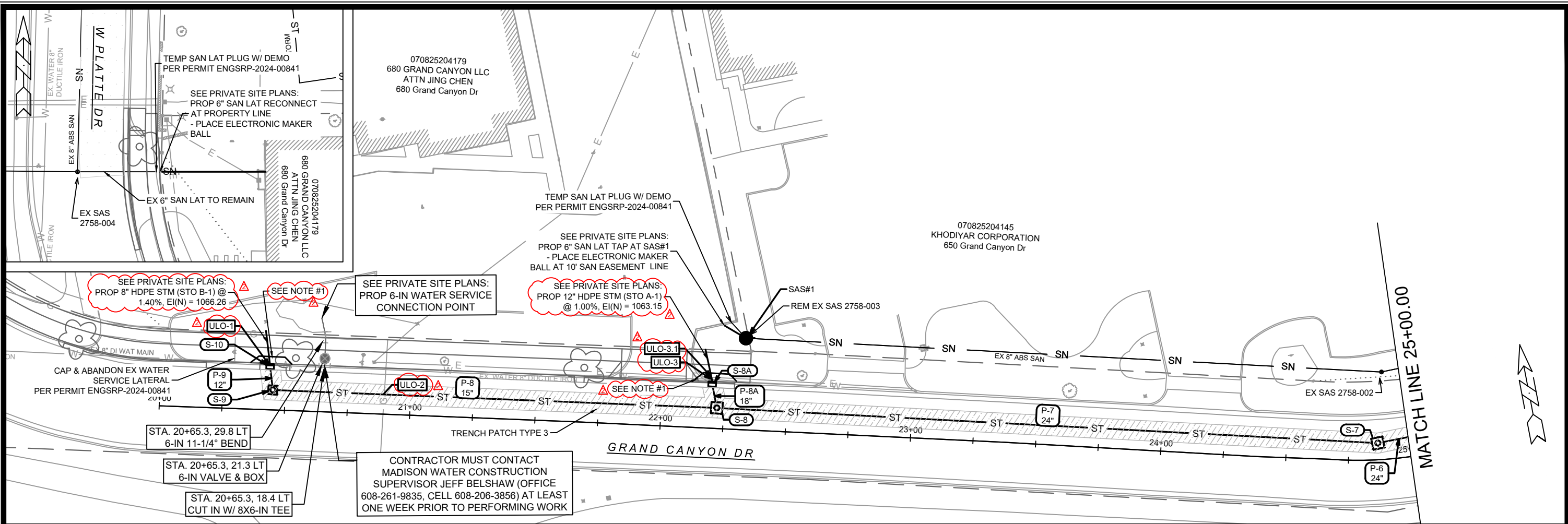


NOTES:  
1. AREA SHOWN IS APPROXIMATE ACTUAL LIMITS WILL BE DETERMINE BY THE CITY CONSTRUCTION ENGINEER.  
OVERLAY MIX SHALL BE 4 LT 58-28 S

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MADISON, WI  
686 GRAND CANYON DRIVE  
CONTRACT NO: 9148  
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P-4



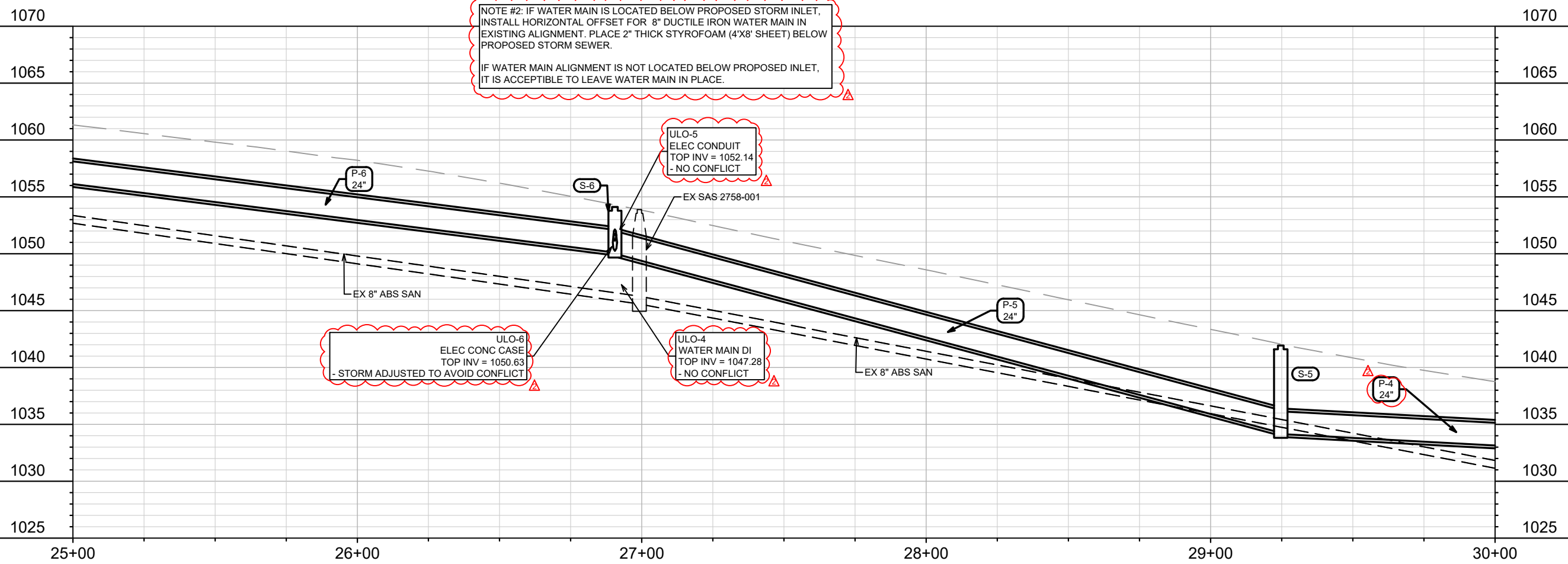
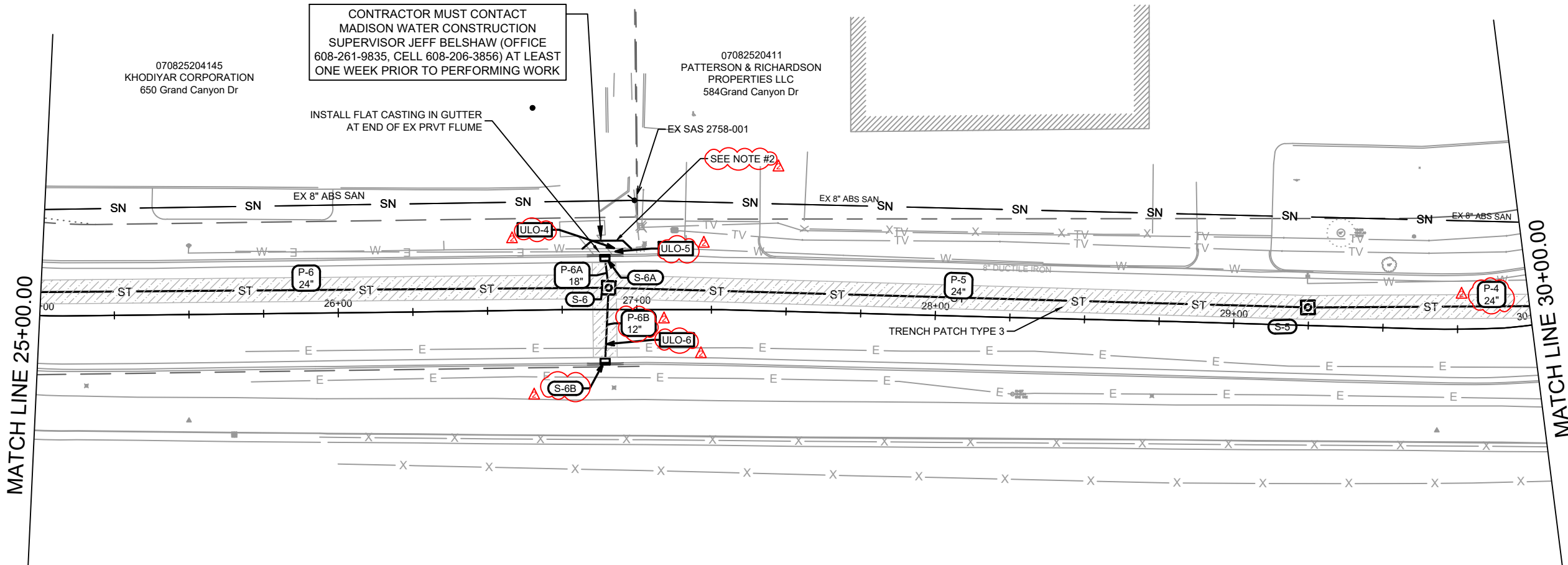
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6/25/24	DAO
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MADISON, WI  
9148  
CONTRACT NO:

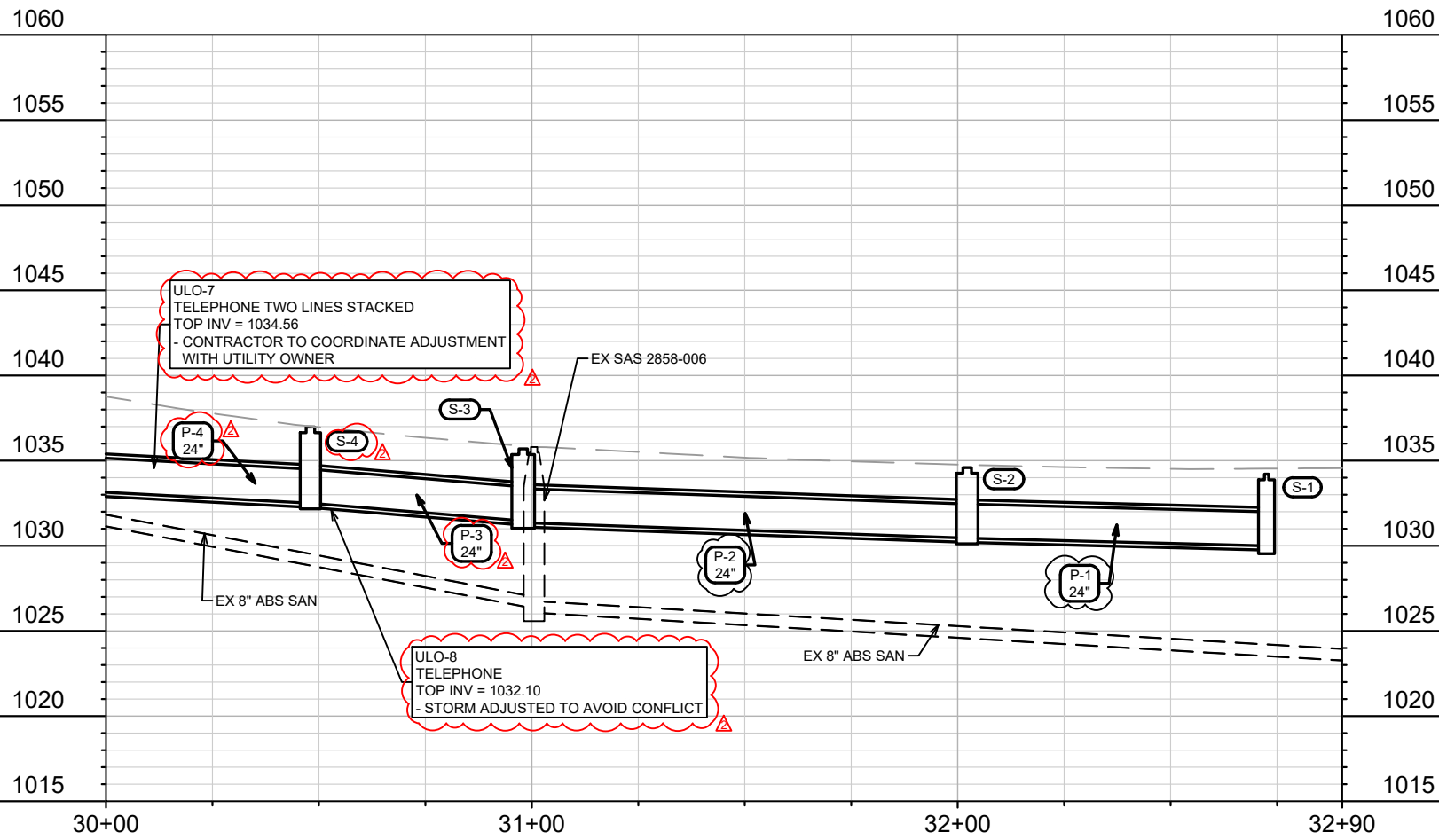
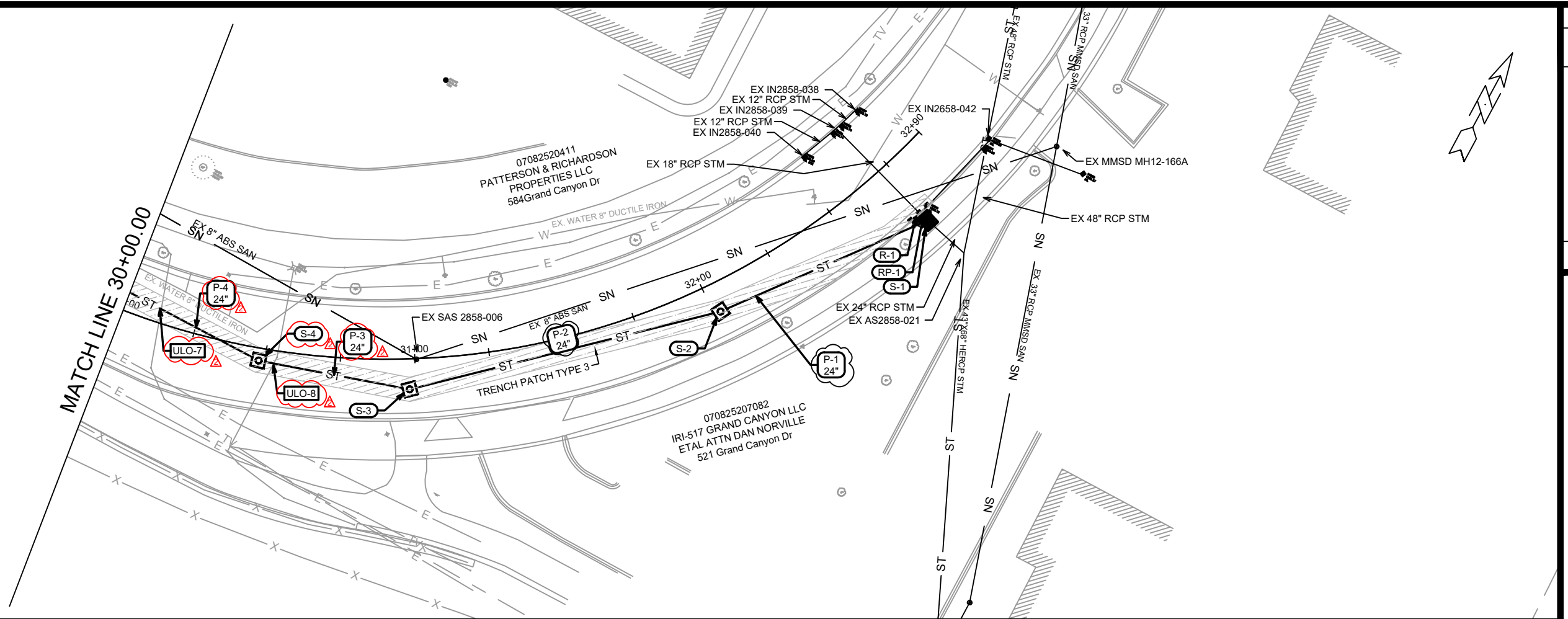
SEWER PLAN & PROFILE - GRAND CANYON DR  
686 GRAND CANYON DRIVE

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14937	14937	U-2
MADISON, WI	REVISION	DATE
686 GRAND CANYON DRIVE	U-2	6/25/24
SEWER PLAN & PROFILE - GRAND CANYON DR	U-2	6/25/24
686 GRAND CANYON DRIVE	U-2	6/25/24
CONTRACT NO: 9148	U-2	6/25/24
Scale: 1" = 40'	U-2	6/25/24
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CITY OF MADISON WISCONSIN	U-2	6/25/24
14937	U-2	6/25/24
U-2	U-2	6/25/24



ULO-7  
TELEPHONE TWO LINES STACKED  
TOP INV = 1034.56  
- CONTRACTOR TO COORDINATE ADJUSTMENT  
WITH UTILITY OWNER

ULO-8  
TELEPHONE  
TOP INV = 1032.10  
- STORM ADJUSTED TO AVOID CONFLICT

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SEWER PLAN & PROFILE - GRAND CANYON DR  
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14937  
U-3

# SEWER SCHEDULE

\* REVISION 1 - 4/25/2024 DAO  
 Δ REVISION 2 - 6/25/2024 DAO

PROJECT NAME	SHEET NO.	U-4
PROJECT NO. 14937	U-4	
SEWER SCHEDULE		
CITY OF MADISON		

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GRAND CANYON DR</b>							
S-1	32+72.55	RT-23.30	TERR. INLET TYPE	1034.41	1029.87	4.54	FP; [1]
S-2	32+02.22	RT-9.69	4X4 STORM SAS	1034.59	1030.45	4.14	FP; W/R-1050-1550-0054
S-3	30+97.96	RT-10.26	4X4 STORM SAS	1035.69	1031.36	4.33	W/R-1050-1550-0054
Δ S-4	30+48.01	RT-4.20	4X4 STORM SAS	1036.98	<b>1032.50</b>	<b>4.48</b>	W/R-1050-1550-0054
S-5	29+24.67	LT-6.05	4X4 STORM SAS	1039.99	1034.15	5.84	W/R-1050-1550-0054
S-6	26+90.56	LT-7.30	4X4 STORM SAS	1054.12	1050.00	4.12	W/R-1050-1550-0054
S-6A	26+89.30	LT-17.29	H INLET	1053.90	1050.35	3.55	W/R-3290-A; [4]
Δ S-6B	26+89.42	RT-17.39	H INLET	1054.29	<b>1051.29</b>	<b>3.00</b>	W/R-3067-7004-V
S-7	24+87.10	LT-6.66	4X4 STORM SAS	1061.53	1056.53	5.00	W/R-1050-1550-0054
S-8	22+22.28	LT-8.22	4X4 STORM SAS	1069.39	1061.94	7.45	W/R-1050-1550-0054
S-8A	22+19.99	LT-17.65	H INLET	1069.22	1062.54	6.68	W/R-3067-7004-V; [2]
S-9	20+45.07	LT-7.95	3X3 STORM SAS	1071.81	1065.73	6.08	W/R-1050-1550-0054
S-10	20+43.67	LT-17.28	H INLET	1072.78	1066.07	6.71	W/R-3067-7004-V; [3]

## 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>GRAND CANYON DR</b>										
* P-1	S-1	S-2	1030.00	1030.45	76	72	0.62%	24"	RCP	-
* P-2	S-2	S-3	1030.45	1031.36	108	104	0.88%	24"	RCP	-
Δ P-3	S-3	S-4	1031.46	<b>1032.50</b>	52	48	<b>2.19%</b>	24"	RCP	-
Δ P-4	S-4	S-5	<b>1032.50</b>	1034.15	123	119	<b>1.39%</b>	24"	RCP	-
P-5	S-5	S-6	1034.25	1050.00	234	231	6.82%	24"	RCP	-
P-6	S-6	S-7	1050.10	1056.53	203	199	3.24%	24"	RCP	-
P-6A	S-6	S-6A	1050.25	1050.35	10	7	1.42%	18"	RCP	NCM
Δ P-6B	S-6	S-6B	<b>1051.14</b>	<b>1051.29</b>	25	22	0.69%	12"	RCP	NCM
P-7	S-7	S-8	1056.63	1061.94	264	260	2.04%	24"	RCP	-
P-8	S-8	S-9	1062.69	1065.73	177	174	1.75%	15"	RCP	-
P-8A	S-8	S-8A	1062.44	1062.54	10	7	1.51%	18"	RCP	-
P-9	S-9	S-10	1065.98	1066.07	9	7	1.30%	12"	RCP	-

## STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
<b>GRAND CANYON DR</b>						
R-1	IN2858-041	32+72.17	RT-19.03	HHH INLET	3.69	-

## STORM PIPE REMOVALS

PIPE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
<b>GRAND CANYON DR</b>						
RP-1	S-1	R-1	5	24"	RCP	-

## SANITARY STRUCTURE REMOVALS

STRUC ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GRAND CANYON DR</b>						
SAS2758-003	62+67.25	LT-36.17	1069.40	1060.50	8.90	-

## ULO SCHEDULE

ID NO.	STATION (OFFSET)	LOCATION (OFFSET)	TYPE	NOTES
<b>GRAND CANYON DR</b>				
Δ ULO-1	20+43.63	LT-17.57	8" WAT MAIN	TOP EI = 1064.95, INSTALL VERTICAL & HORIZONTAL OFFSET
Δ ULO-2	20+89.02	LT-7.94	GAS	TOP EI = 1067.23, NO CONFLICT
Δ ULO-3	22+19.63	LT-19.53	8" WAT MAIN	TOP EI = 1063.06, INSTALL VERTICAL & HORIZONTAL OFFSET
Δ ULO-3.1	22+19.71	LT-2036.00	UG ELEC	TOP EI = 1067.36, NO CONFLICT
Δ ULO-4	26+92.83	LT-20.47	8" WAT MAIN	TOP EI = 1047.28, NO CONFLICT
Δ ULO-5	26+92.32	LT-19.39	UG ELEC, CONC DUCT	TOP EI = 1052.14, NO CONFLICT
Δ ULO-6	26+89.51	RT-11.62	UG ELEC	TOP EI = 1050.63, PROP STM ADJUSTED
Δ ULO-7	30+11.31	LT-5.05	UG TEL, 2 STACKED	TOP EI = 1034.56, COORDINATE ADJUSTMENT W/UTILITY OWNER
Δ ULO-8	30+52.89	RT-4.56	UG TEL	TOP EI = 1032.10, PROP STM ADJUSTED

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>GRAND CANYON DR</b>						
SAS#1	62+67.25	LT-36.17	1069.40	1060.50	8.90	-

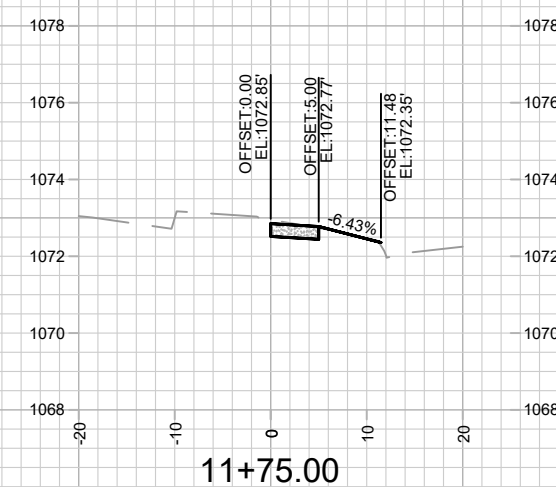
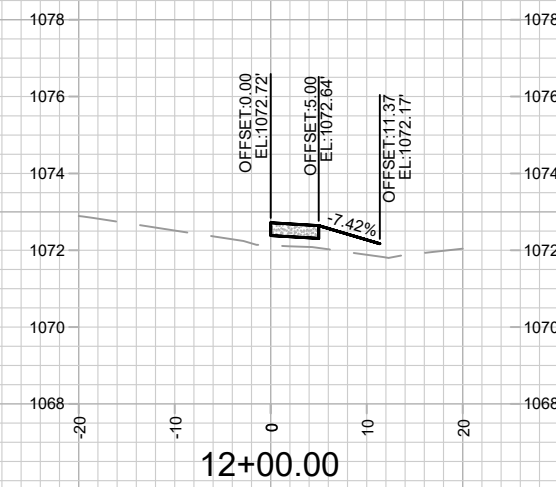
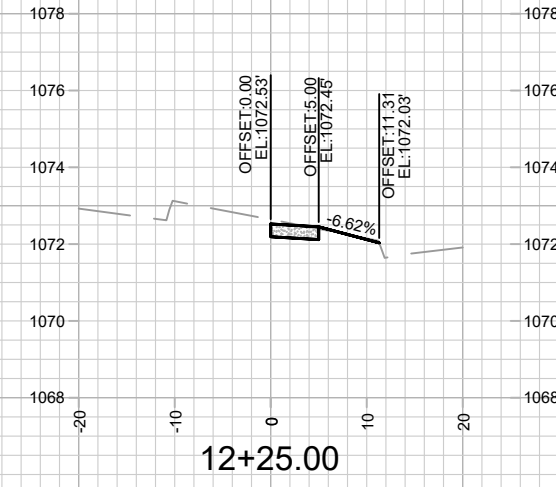
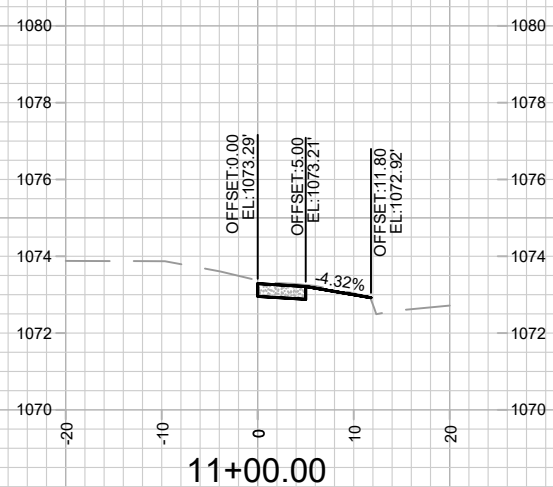
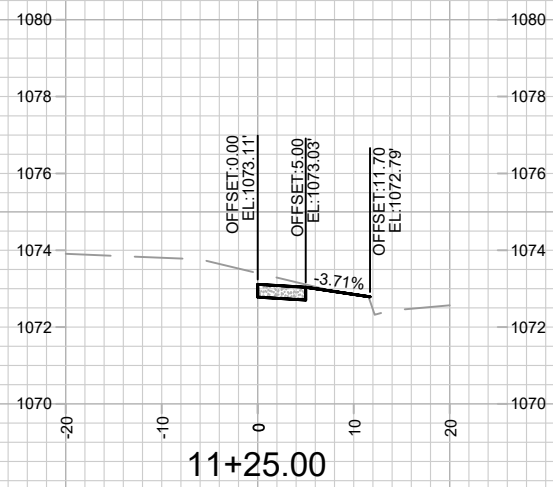
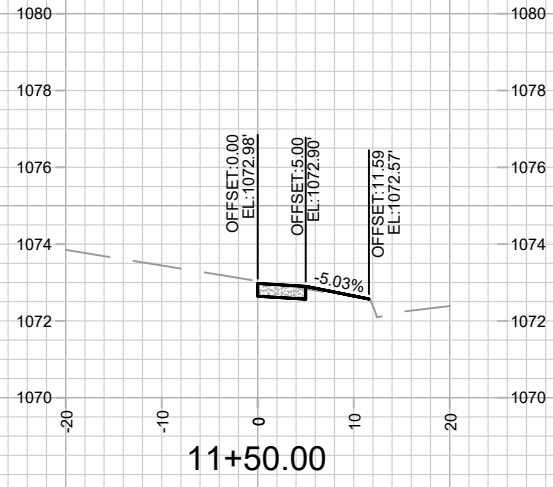
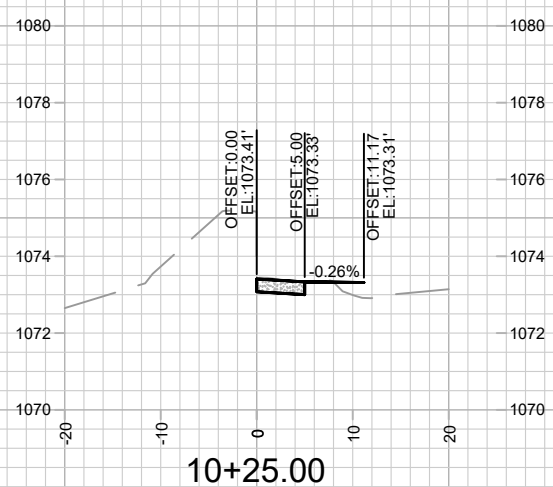
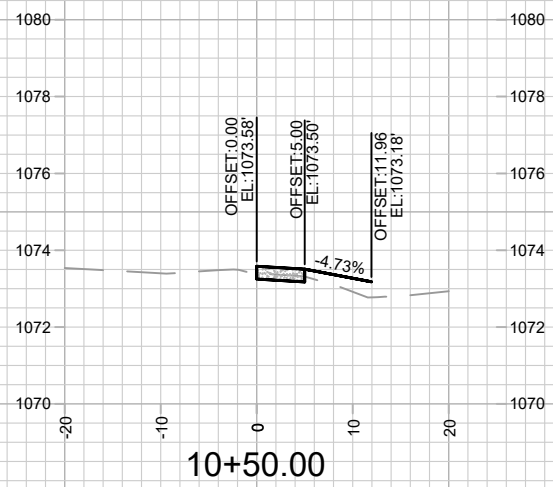
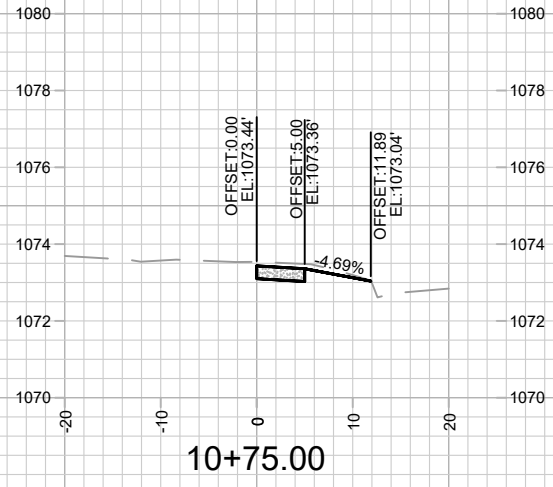
## SPECIFIC NOTES:

- [1] TOP OF CURB GIVEN IN TABLE; SET CASTING 0.2' BELOW TOP OF CURB; RECONNECT EXISTING 24" RCP AT EI(SE) = 1029.87
- [2] CONNECT PRIVATE 12" STORM AT EI(N) = 1063.04
- [3] CONNECT PRIVATE 12" STORM AT EI(N) = 1066.17
- [4] TOC AT CENTER OF STRUCTURE GIVEN IN CHART; FLAT CASTING FOR END OF EX PRVT FLUME

## 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.
- 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 REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECORDED.

- 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 3 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.



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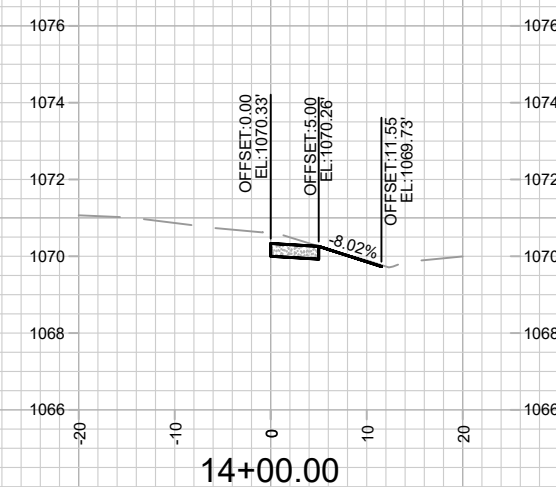
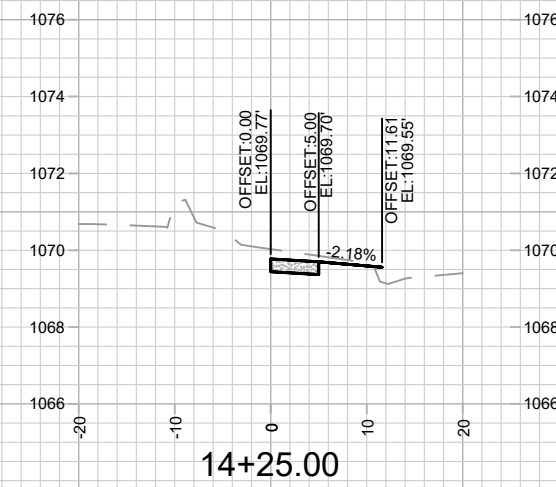
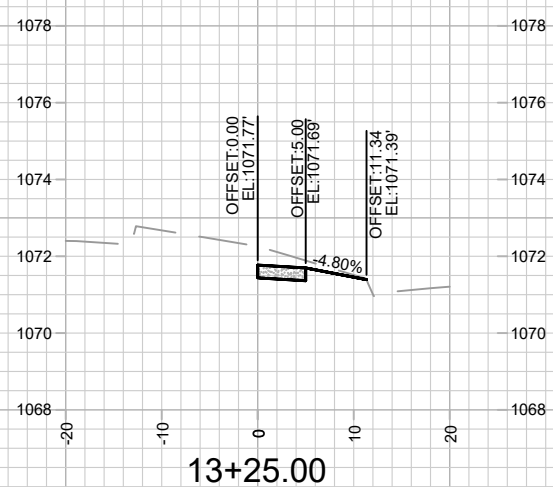
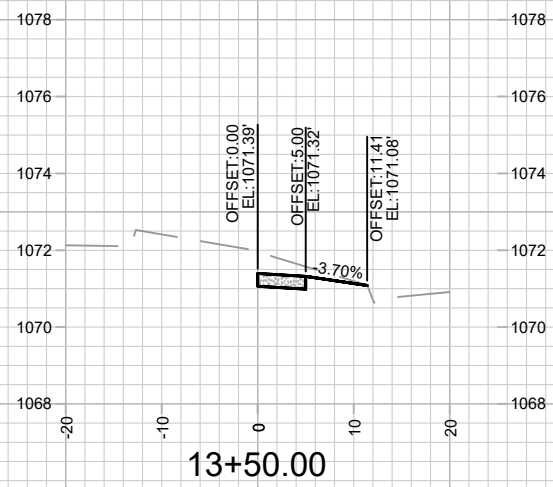
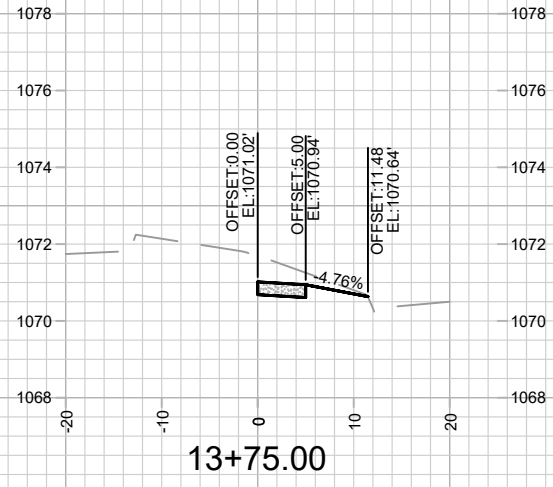
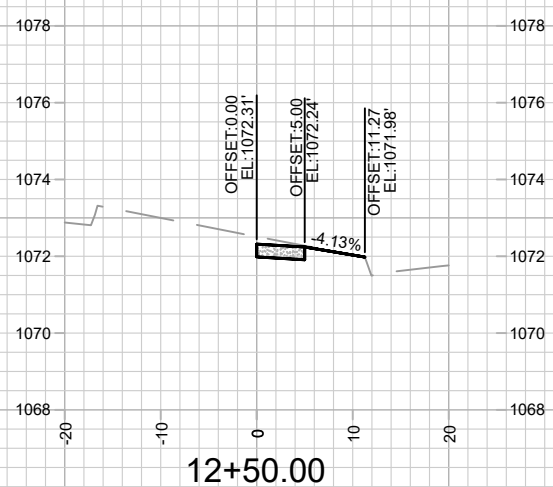
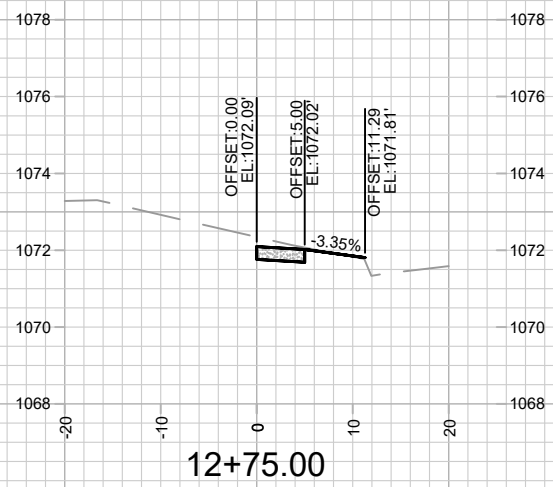
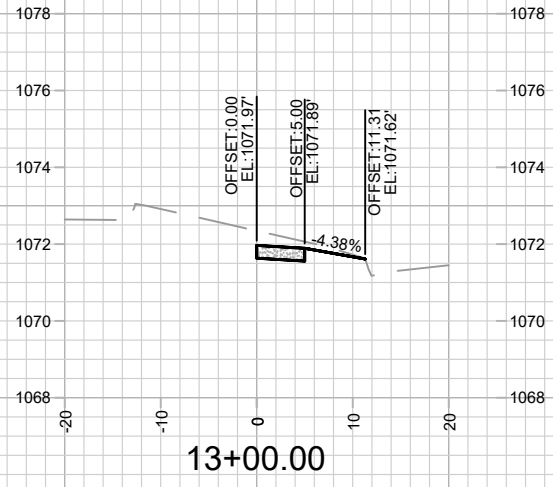
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MADISON, WI  
9148  
CONTRACT NO:

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686 GRAND CANYON DRIVE  
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CROSS SECTION - GRAND CANYON DRIVE  
686 GRAND CANYON DRIVE

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MADISON, WI  
CONTRACT NO: 9148

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