

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

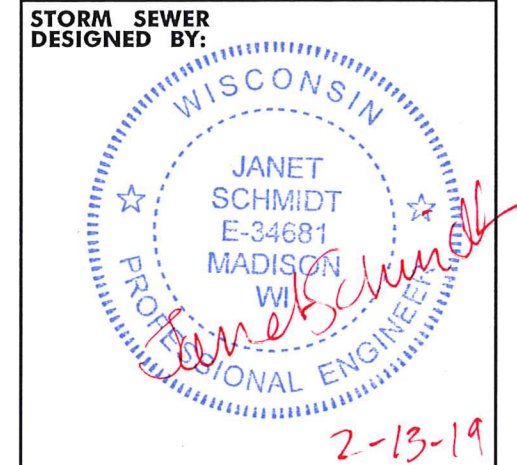
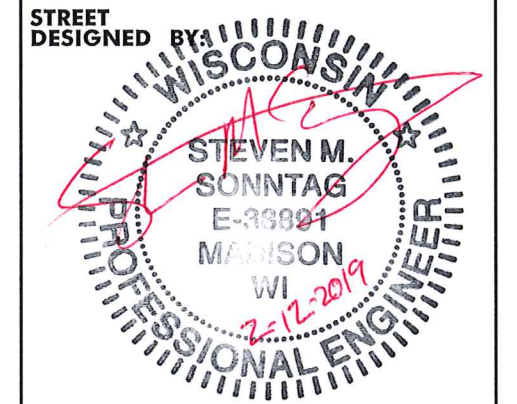
PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 5, 2019

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 2/14/19
City Engineer Date

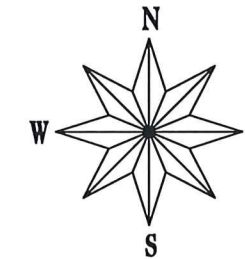


INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAIL
D-1	EROSION CONTROL
EC1-EC7	PLAN & PROFILE
P1-P7	SEWER PLAN & PROFILE
U1-U3	SEWER SCHEDULES
U4	PAVEMENT MARKING
PM1-PM6	CROSS SECTIONS
X1-X11	

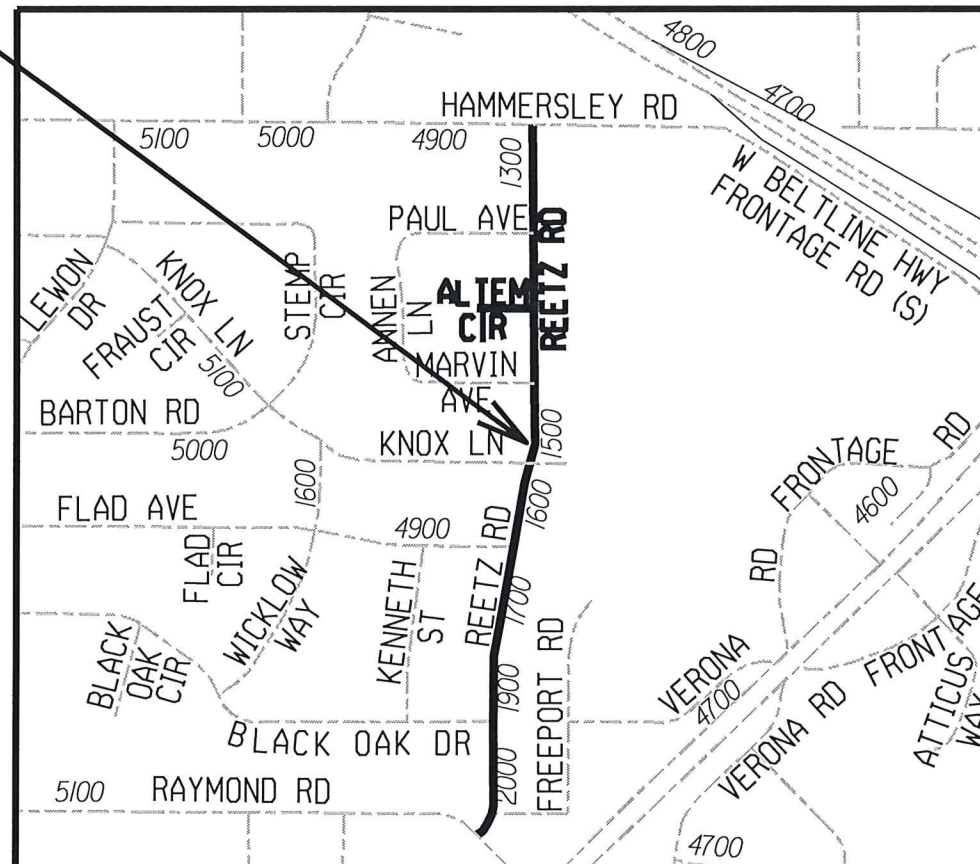
REETZ ROAD & ALTEM CIRCLE RESURFACING ASSESSMENT DISTRICT - 2019

CITY PROJECT NO. 11963
8301



CONSTRUCTION PROJECT LOCATION

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊥
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣



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% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

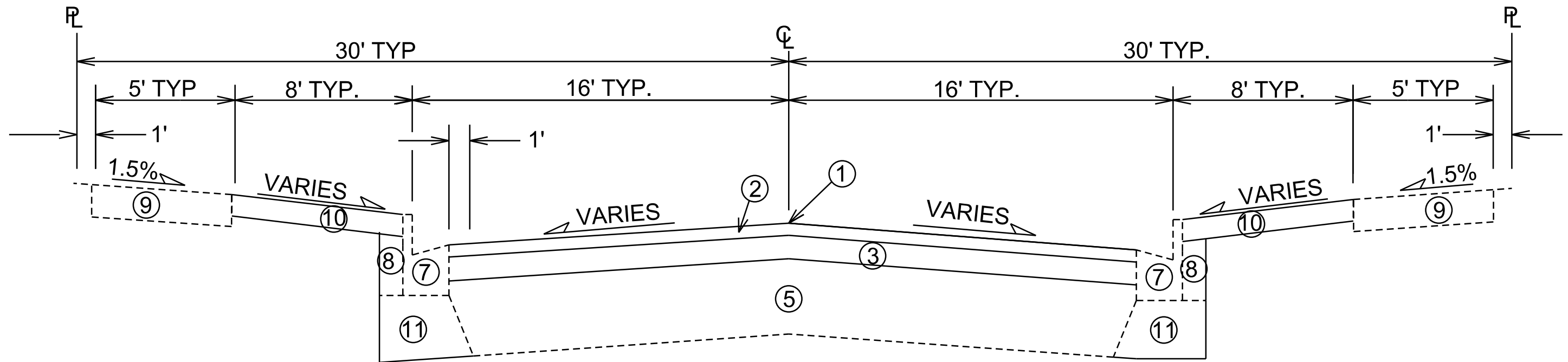
EARTH WORK SUMMARY	
ESTIMATED UNDISTRIBUTED UNDERCUT.....	1000.00 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....	1000.00 C.Y.

PLOT SCALE: _____

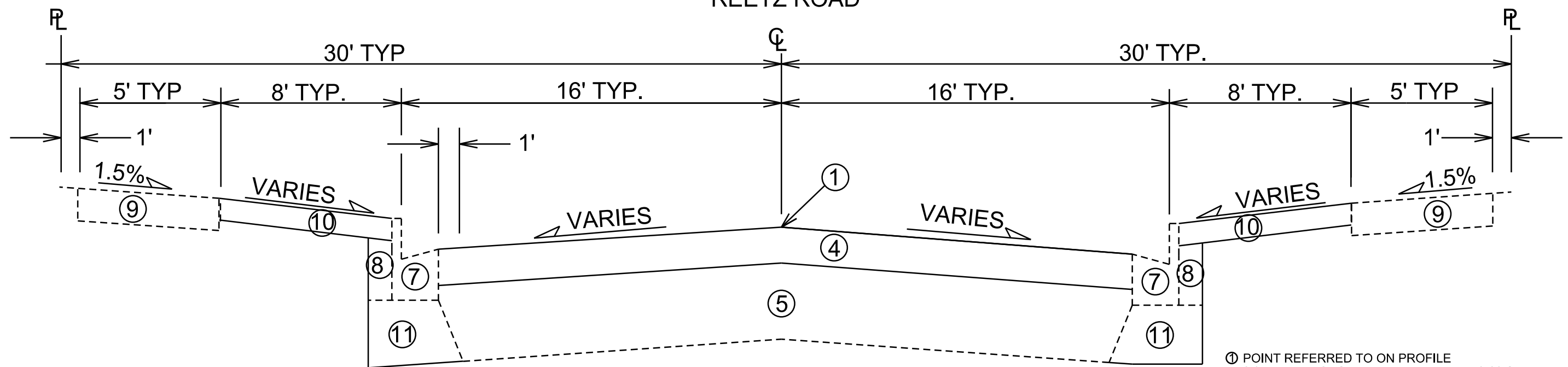
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



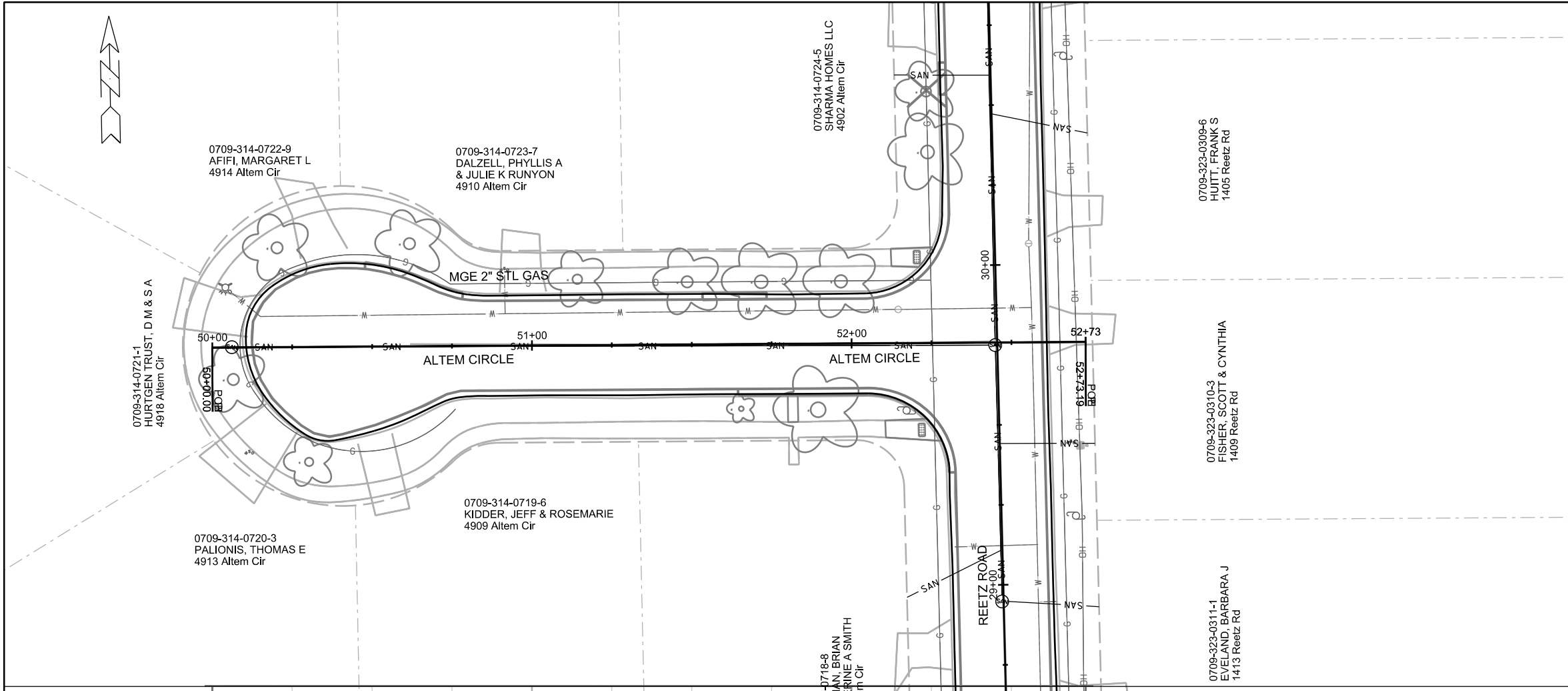
TYPICAL SECTION
REETZ ROAD



TYPICAL SECTION
ALTEM CIRCEE

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 2.5" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 3.0" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ⑤ PULVERIZED ASPHALT AND EXISTING BASE
- ⑦ REMOVE & REPLACE CONCRETE CURB & GUTTER AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑧ FILL, INCIDENTAL WHERE CURB IS REPLACED
- ⑨ 5" CONCRETE SIDEWALK, REMOVE & REPLACE OR INSTALL NEW AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑩ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED & MAT
- ⑪ 4" MIN GRADATION 2 CRUSHED AGGREGATE AS NECESSARY FOR CURB REPLACEMENT

TYPICAL SECTION NOT TO SCALE









PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK
-  STREET CONSTRUCTION STONE BERM

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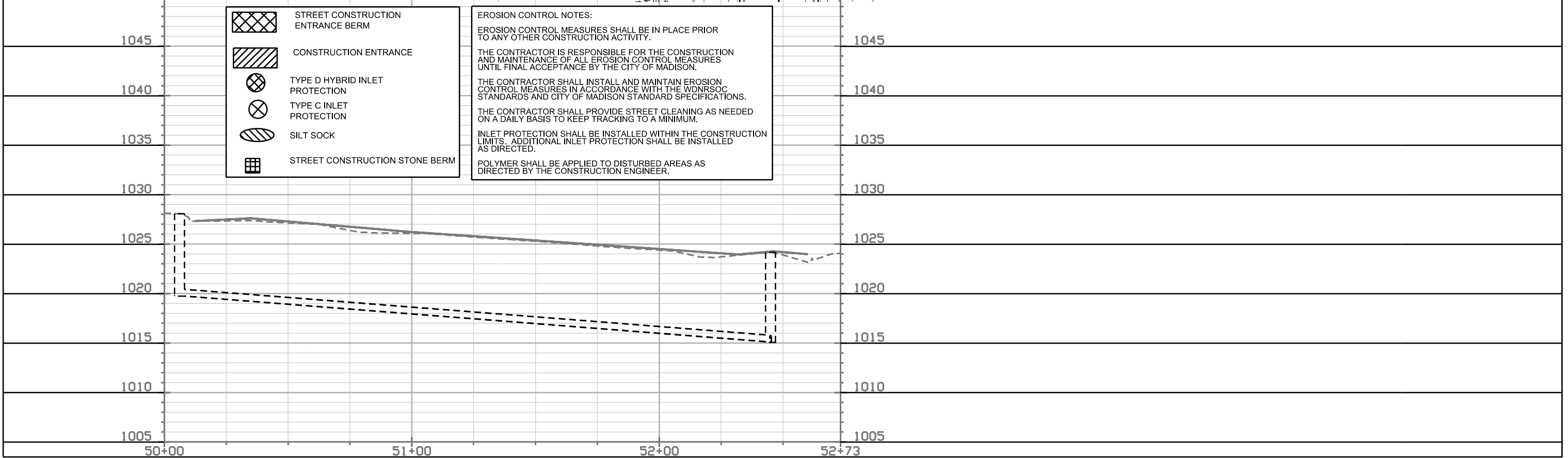
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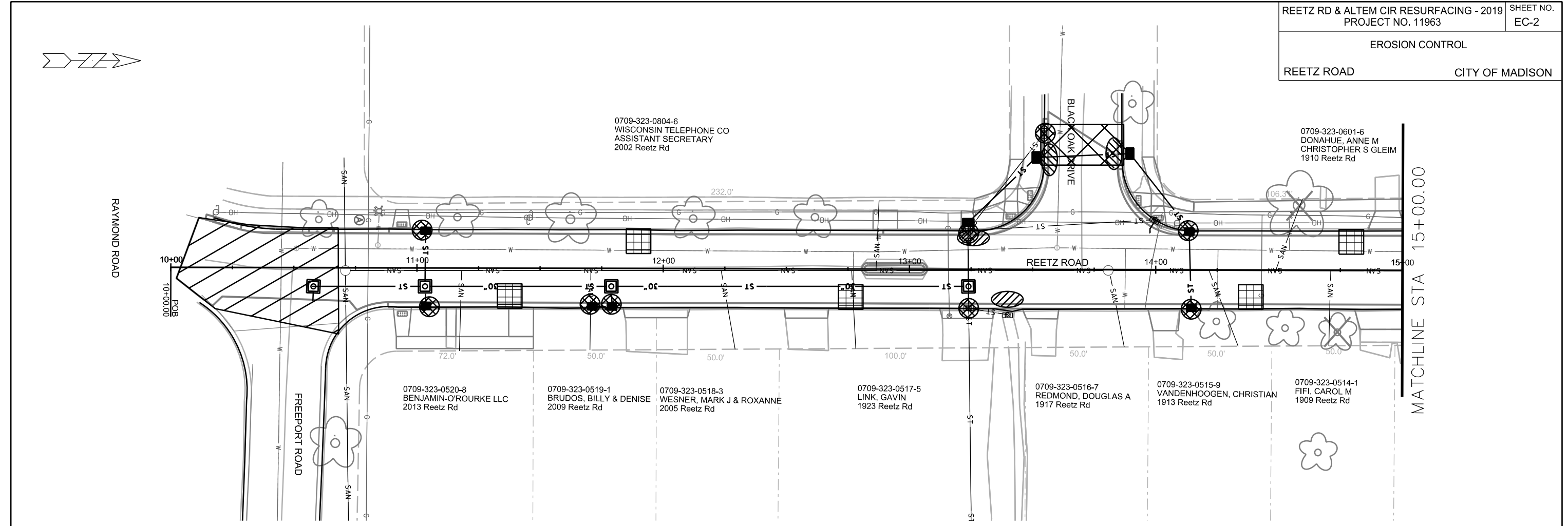
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EROSION CONTROL
REETZ ROAD CITY OF MADISON



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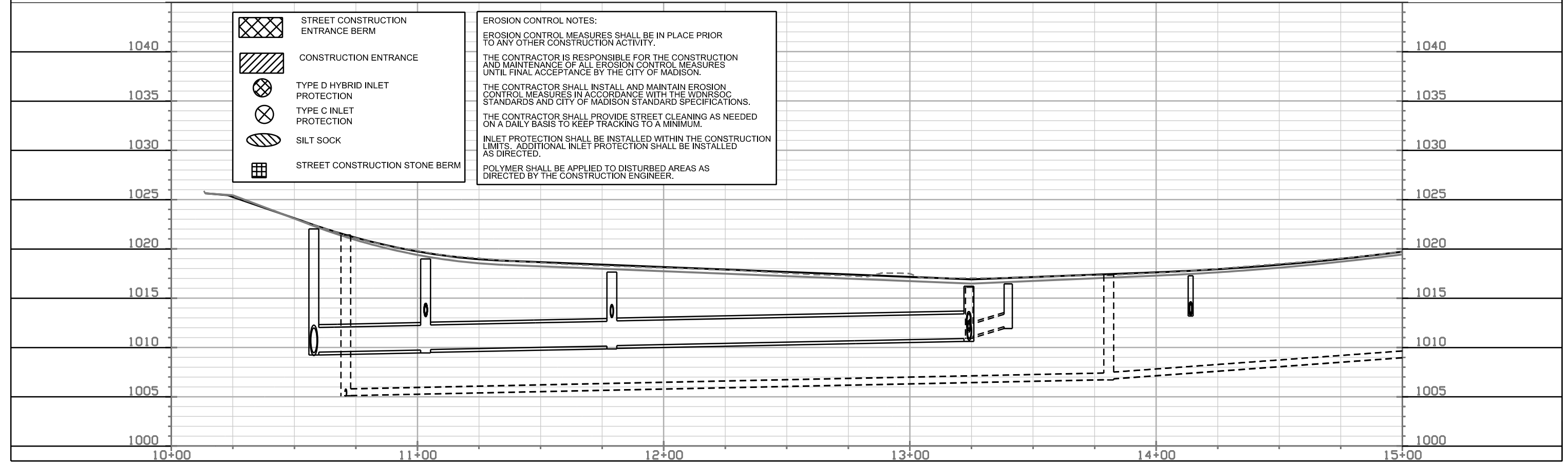
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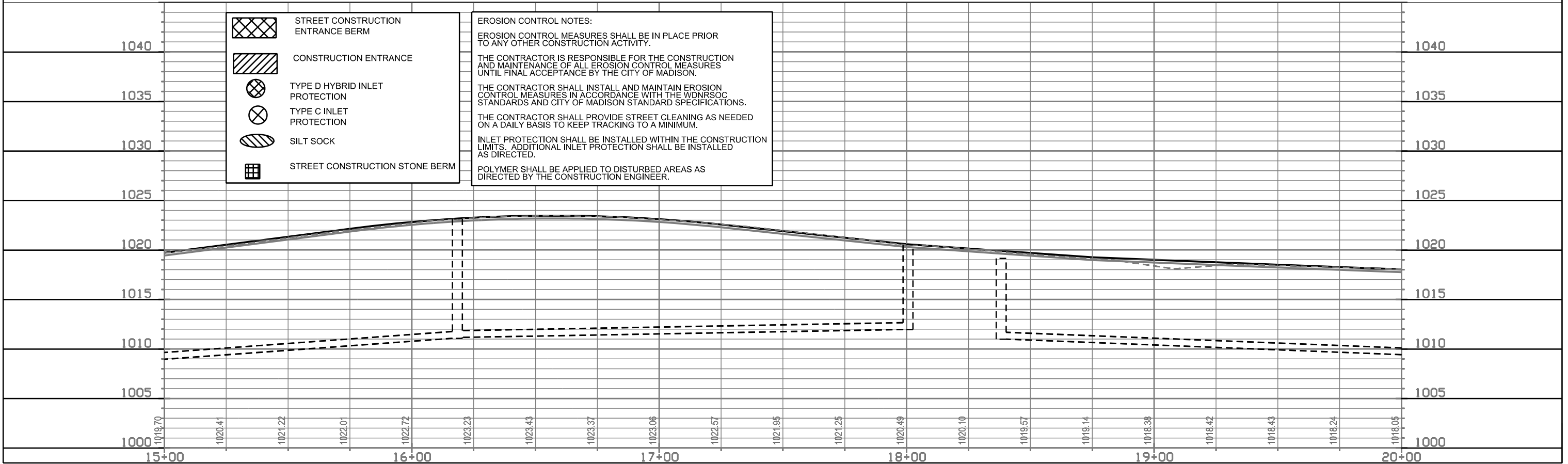
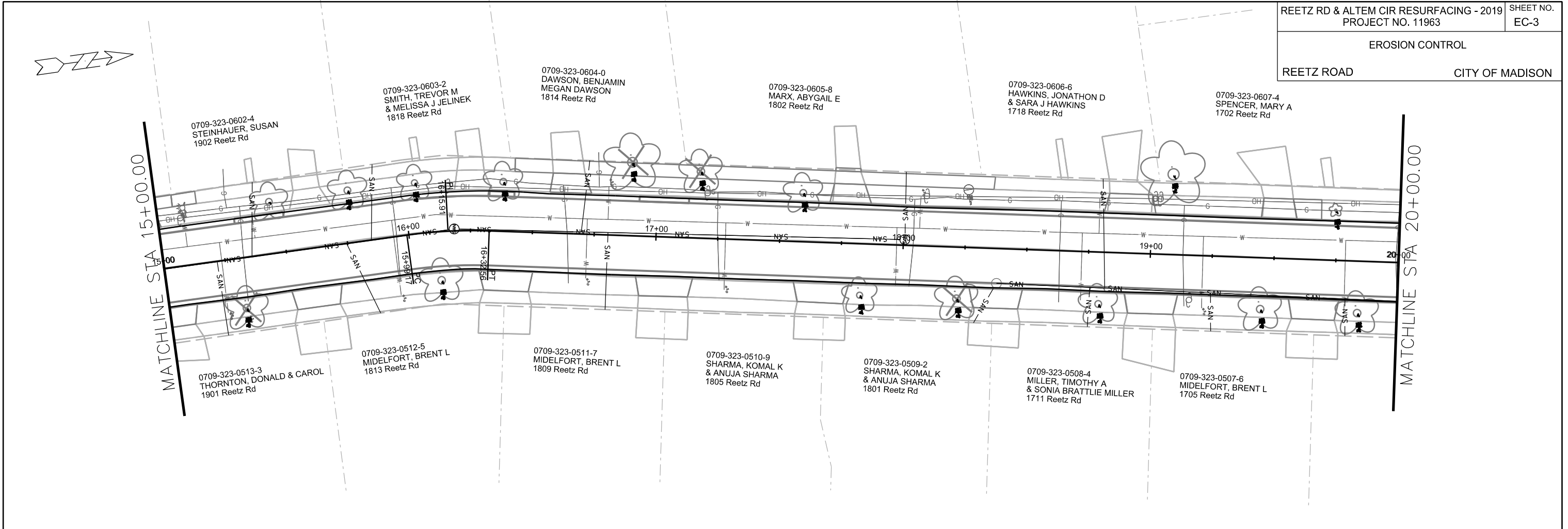


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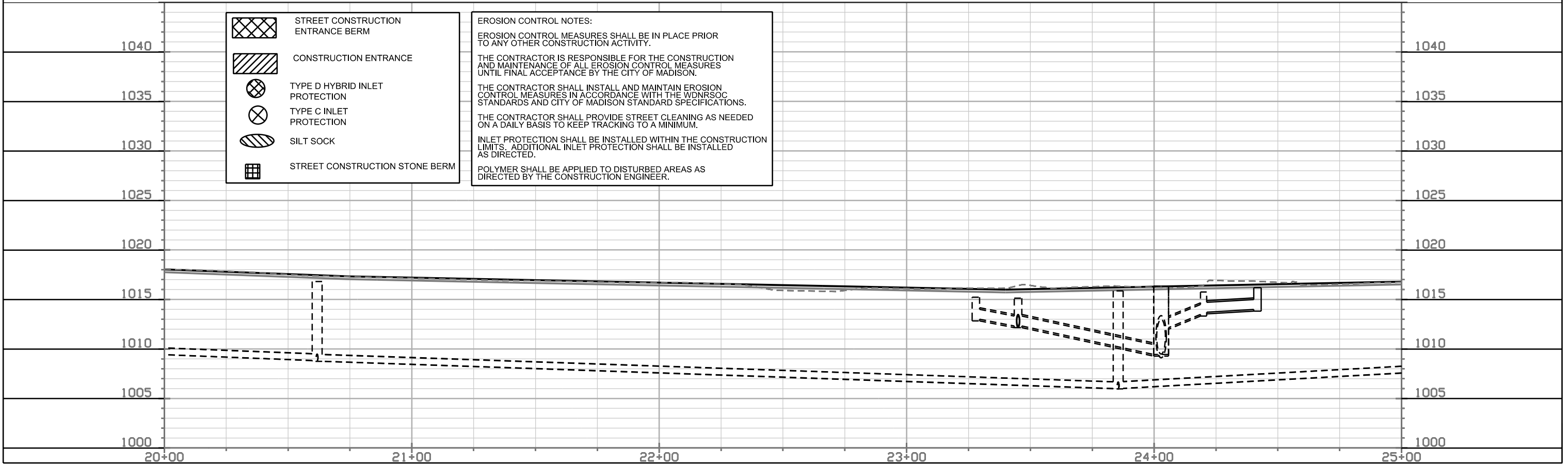
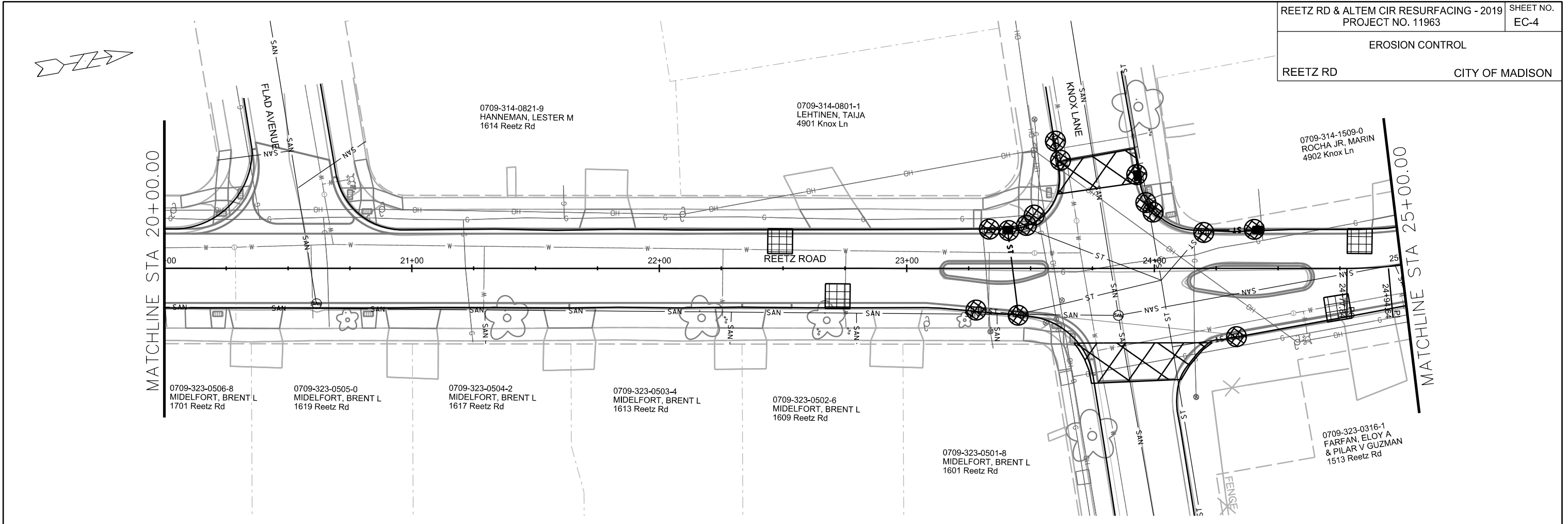


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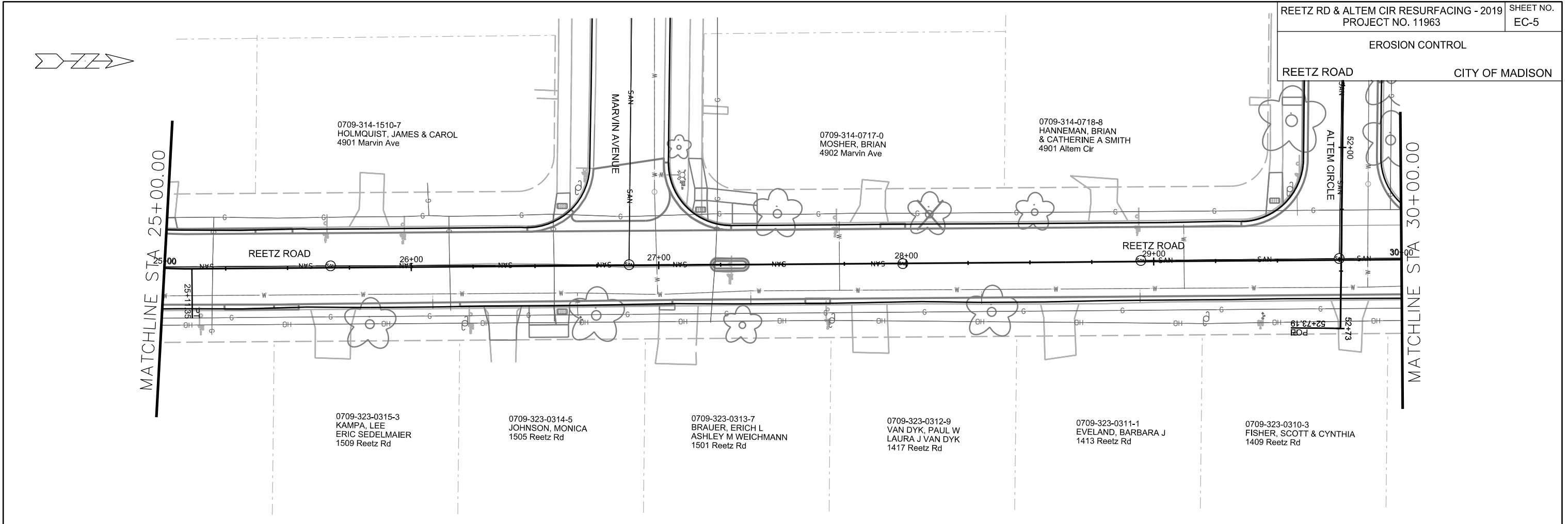
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EROSION CONTROL

CITY OF MADISON



MATCHLINE STA 25+00.00

MATCHLINE STA 30+00.00

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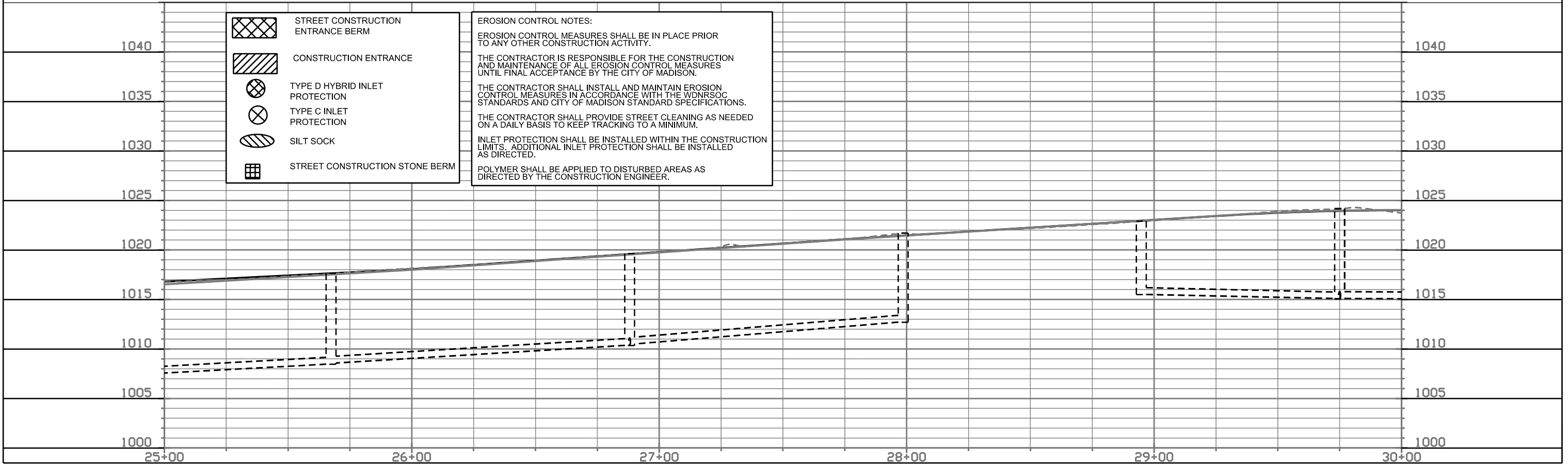
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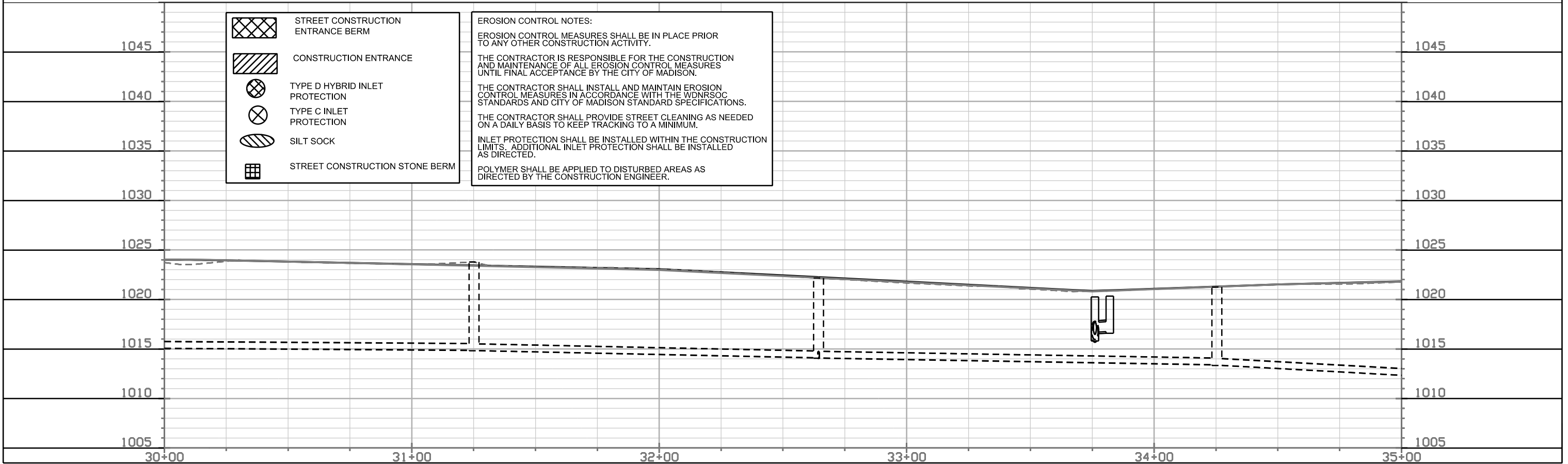
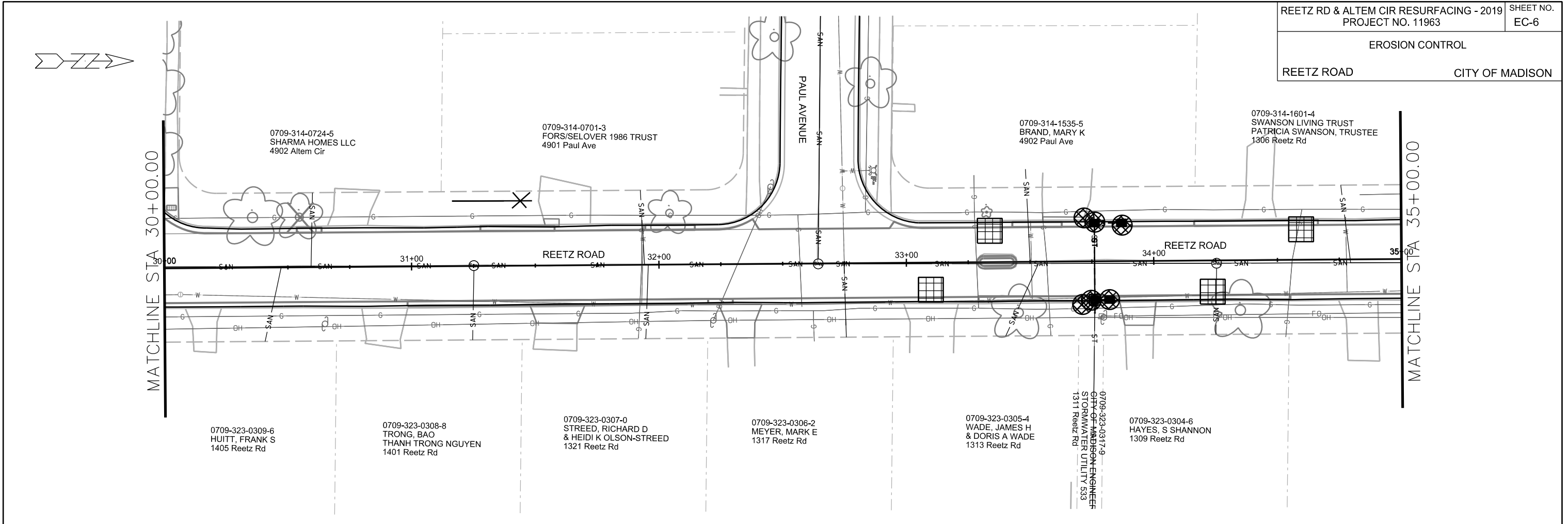


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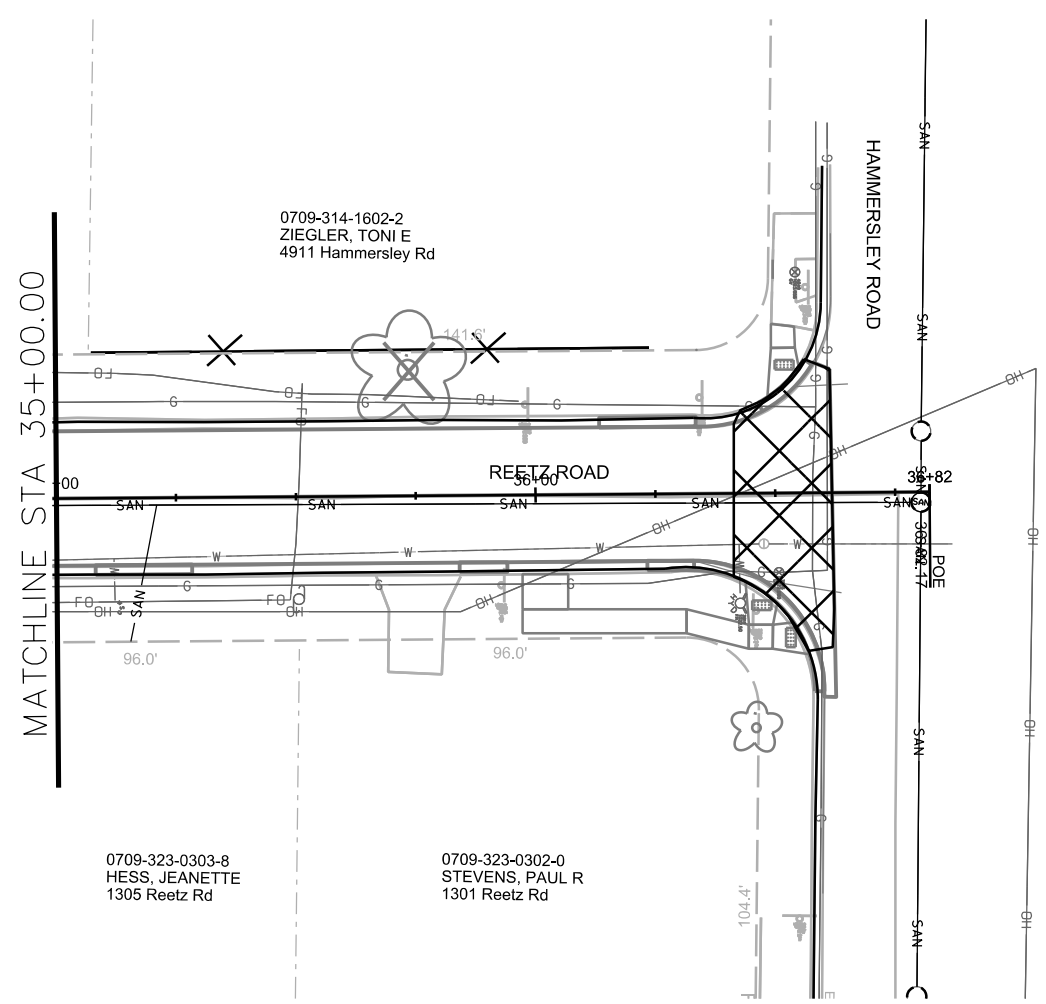
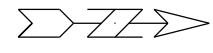


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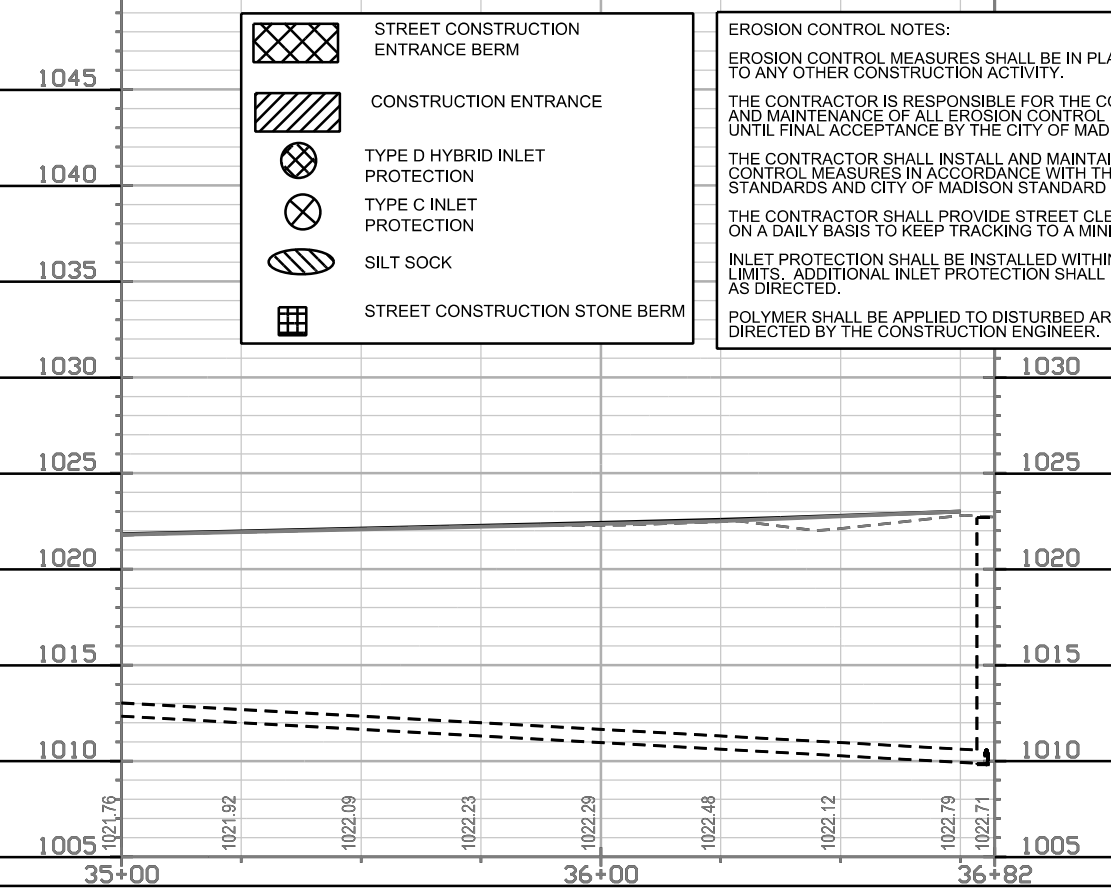
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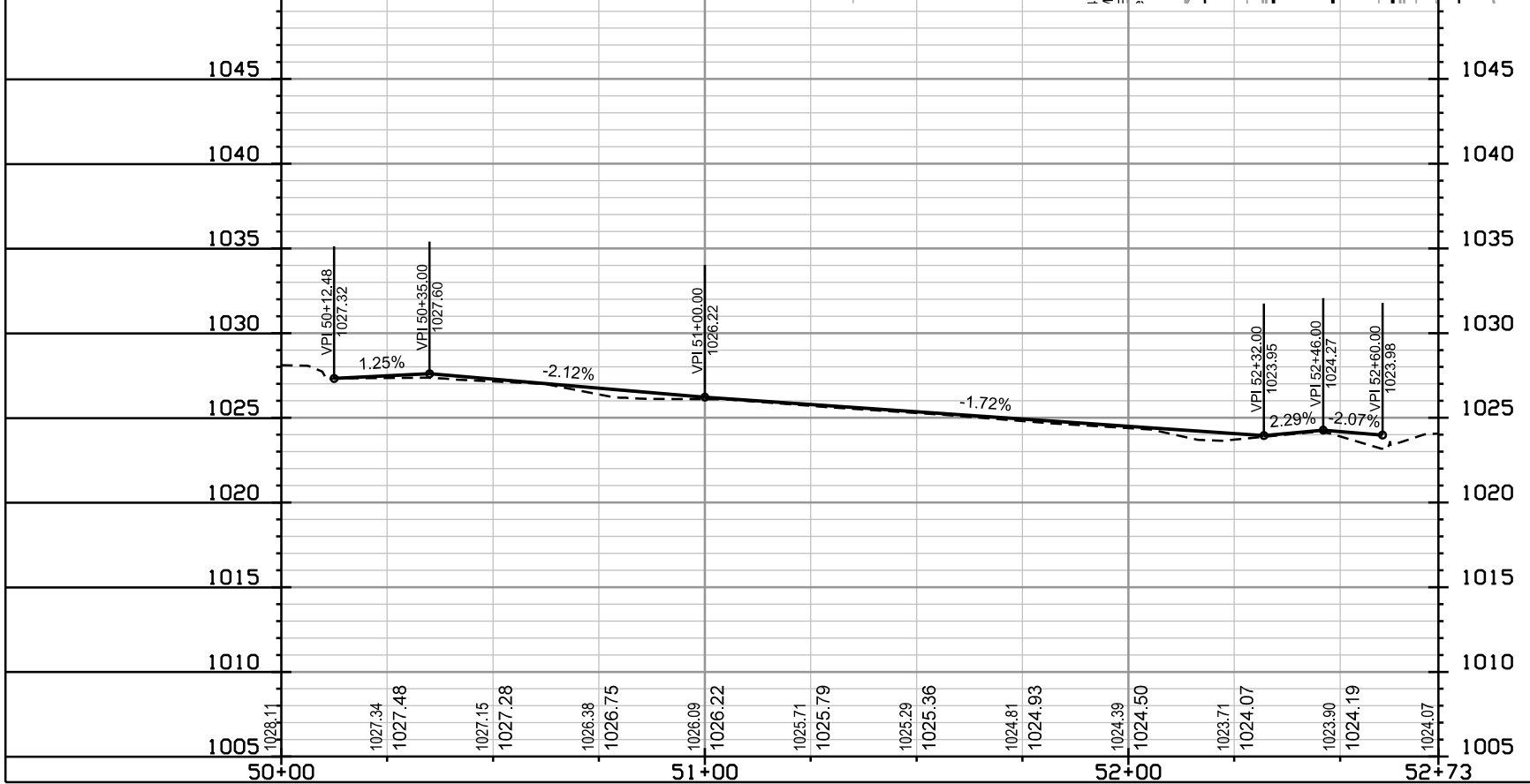
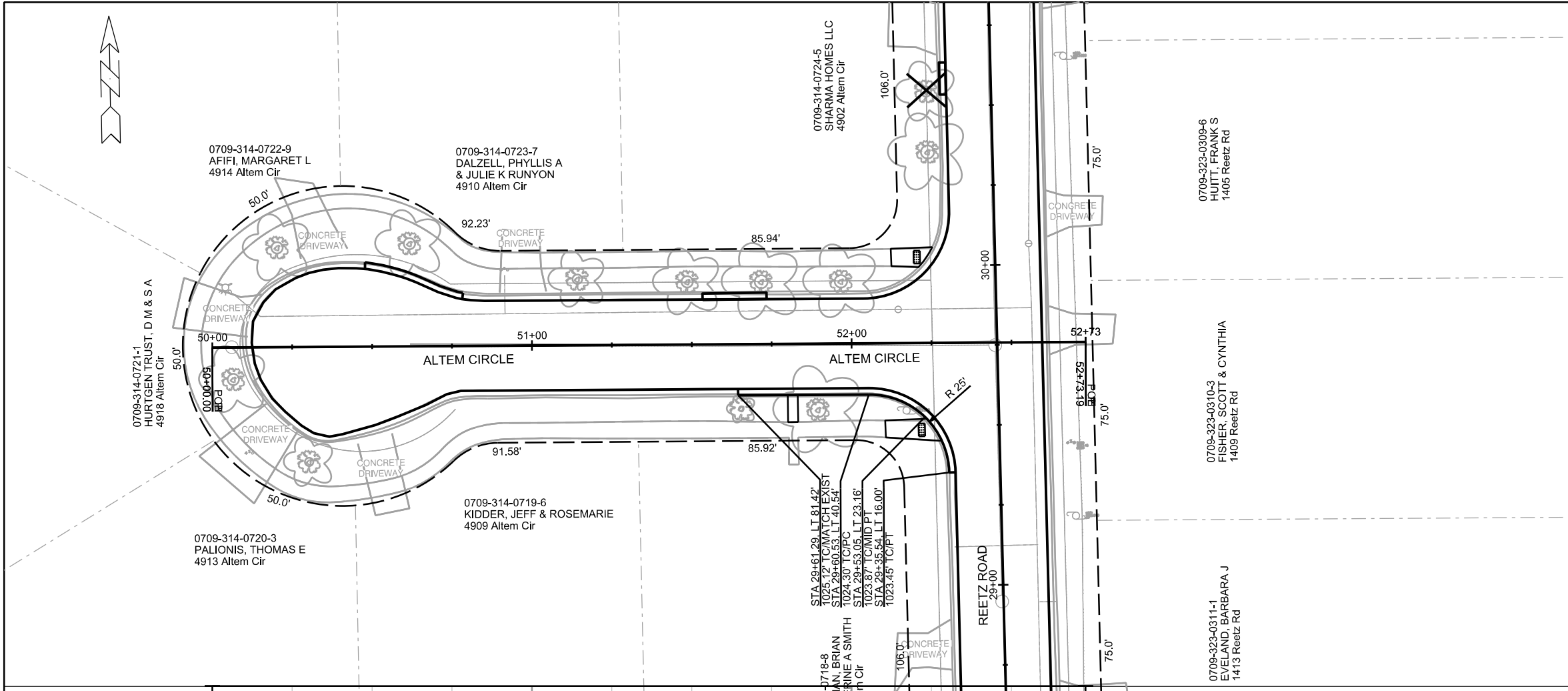
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PLAN AND PROFILE
ALTEM CIRCLE CITY OF MADISON

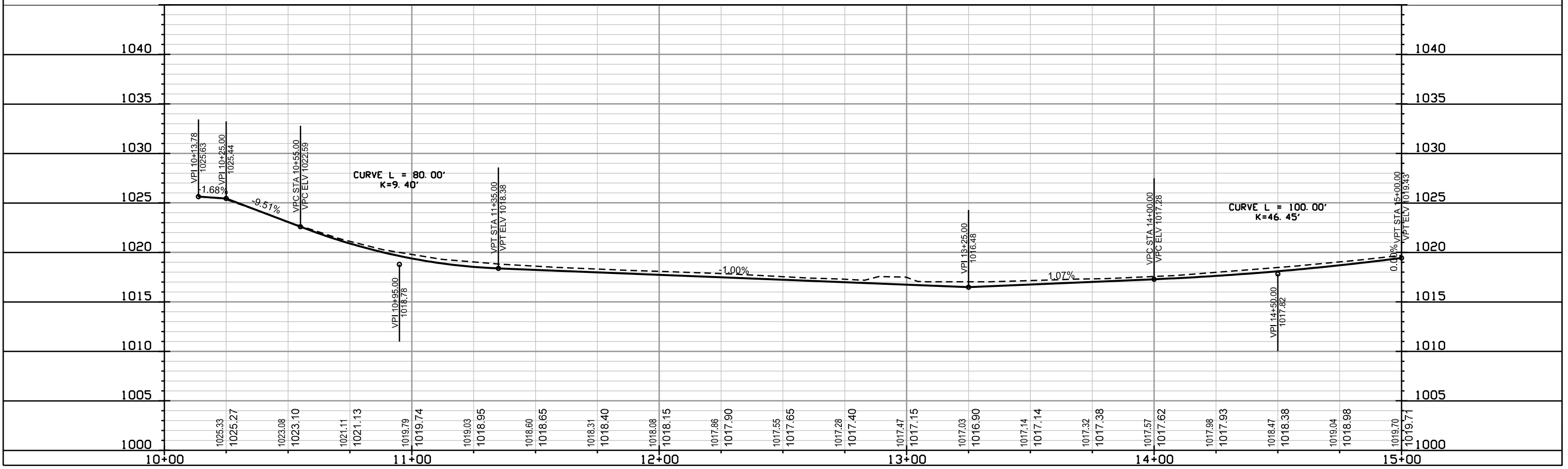
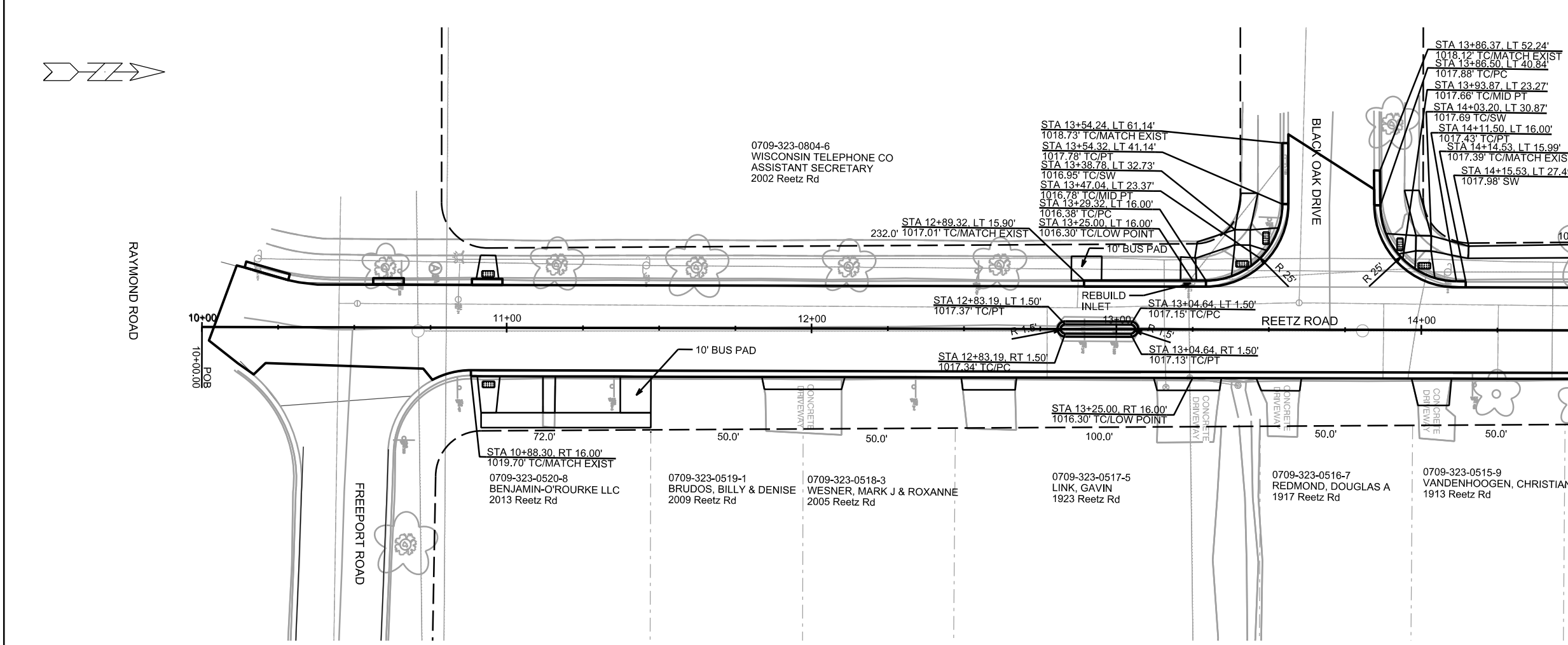


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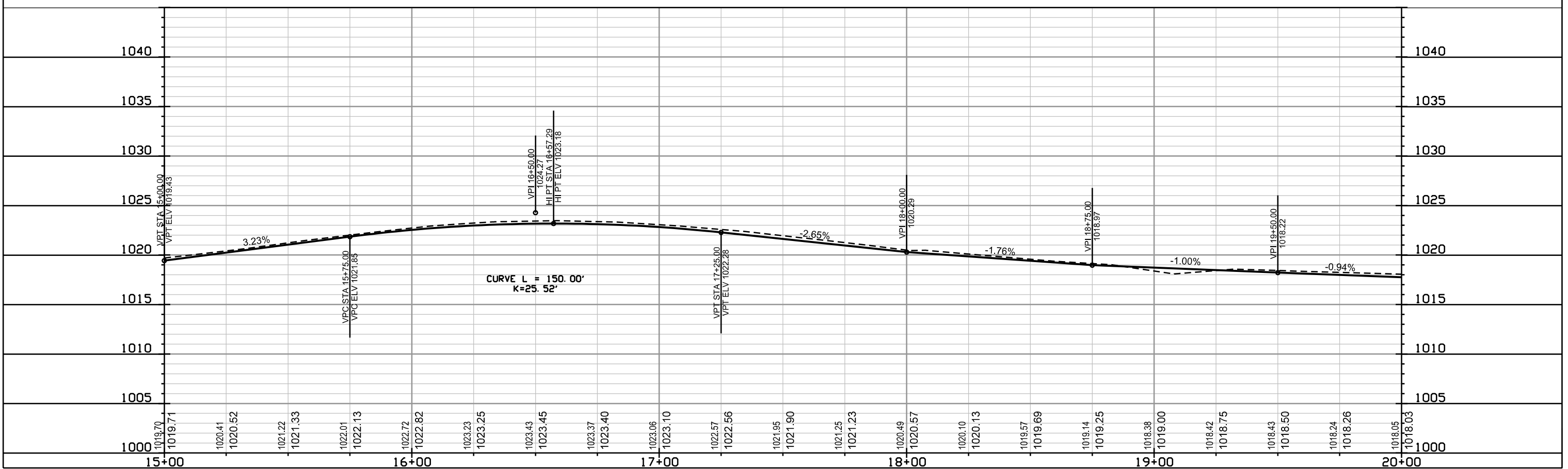
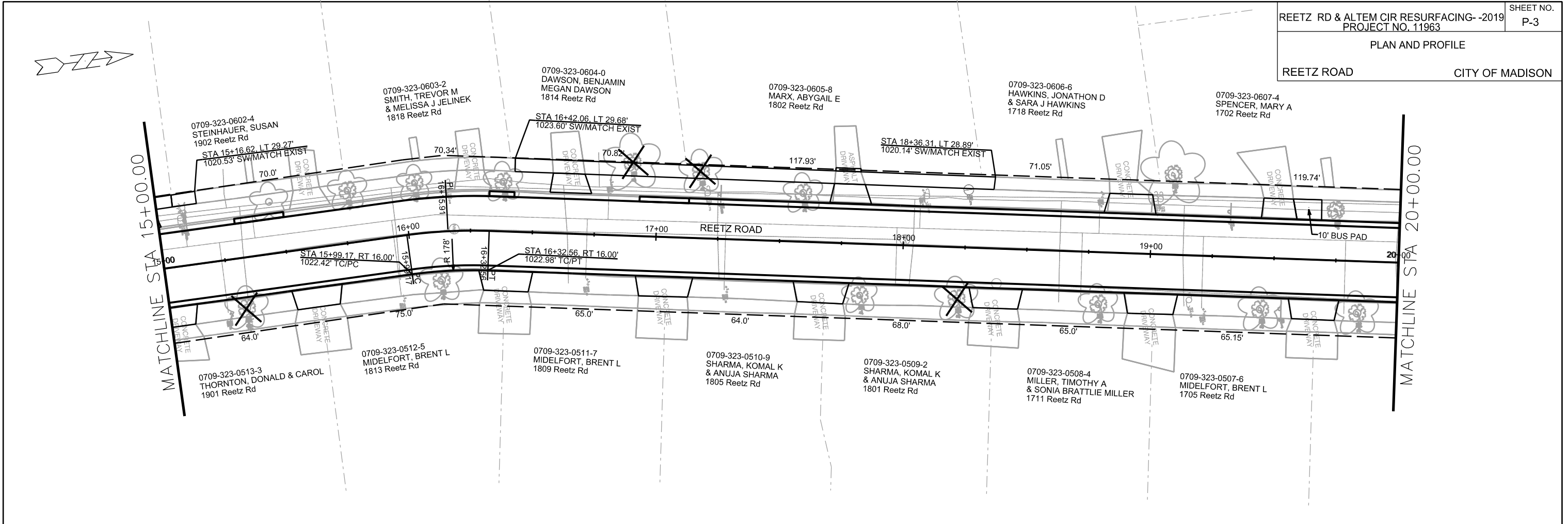


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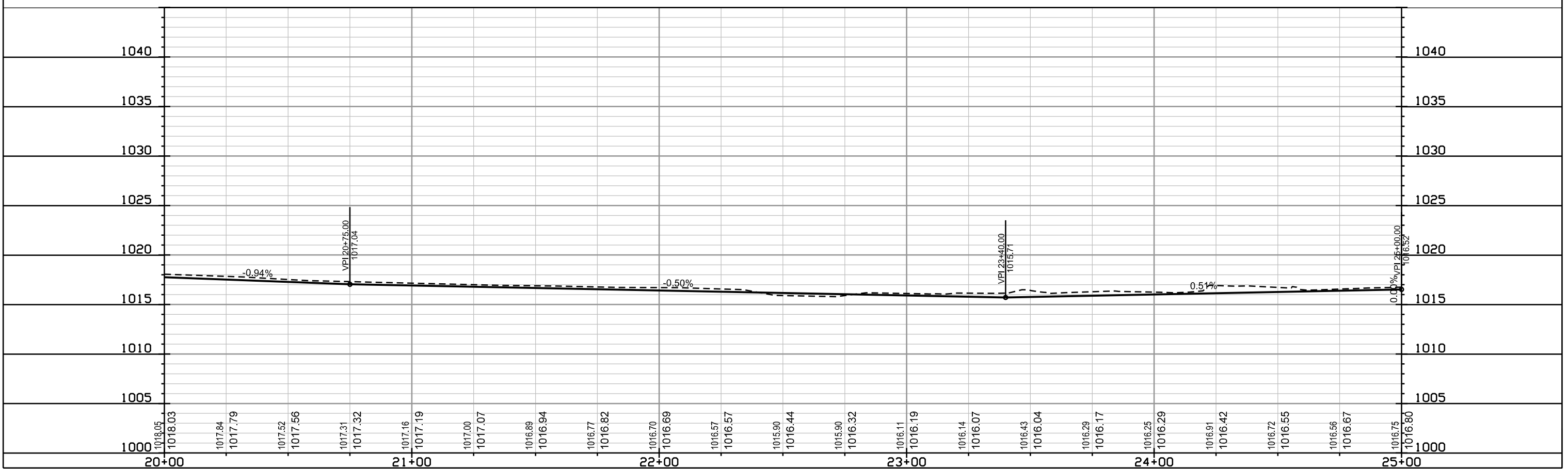
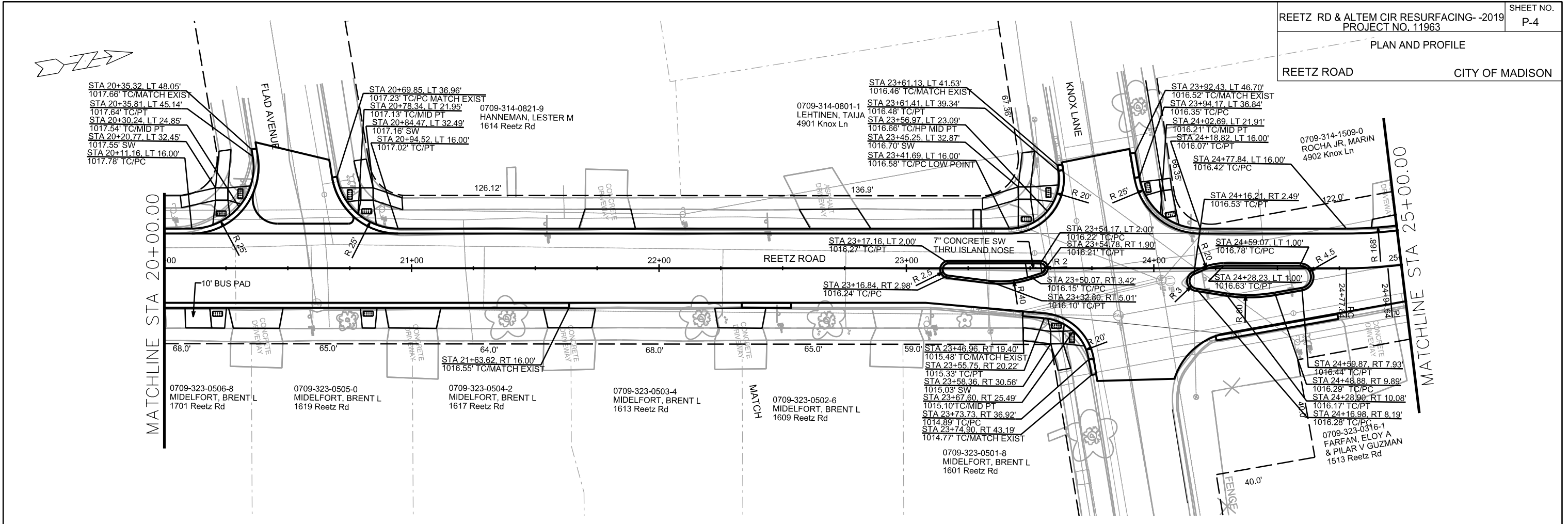


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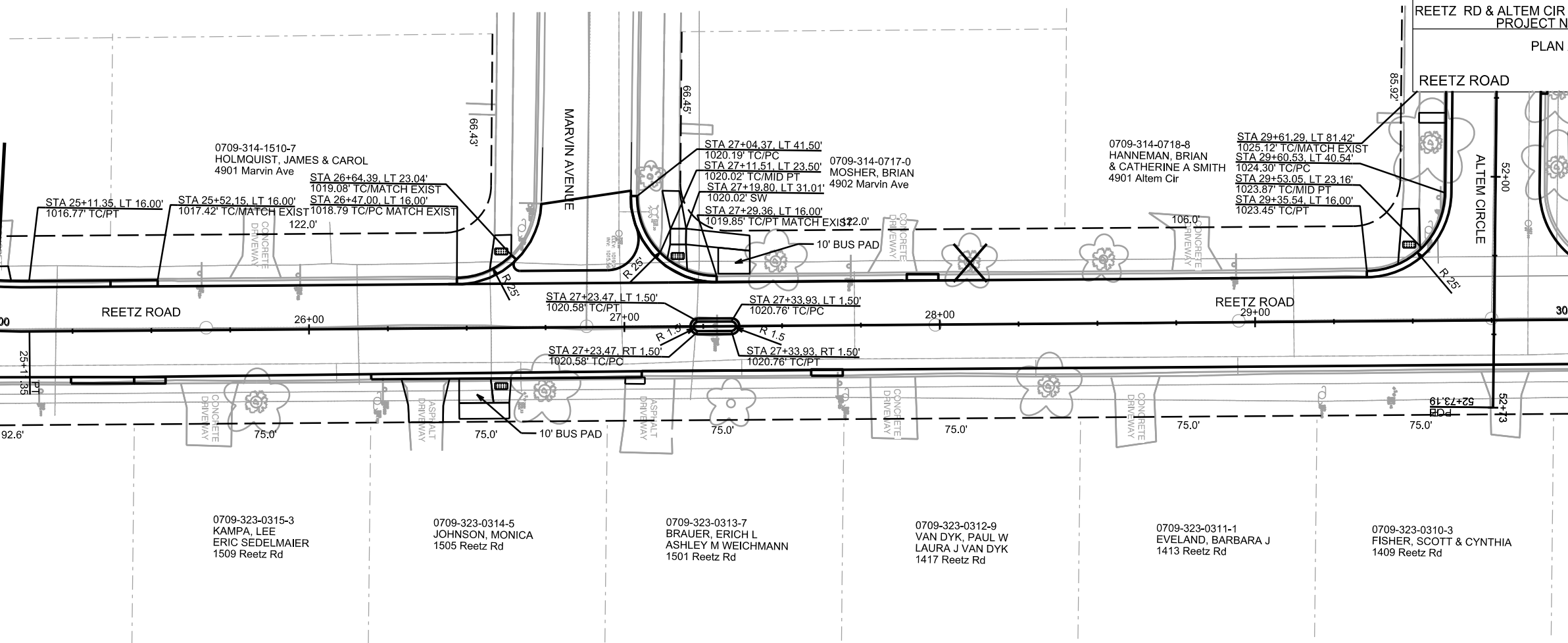
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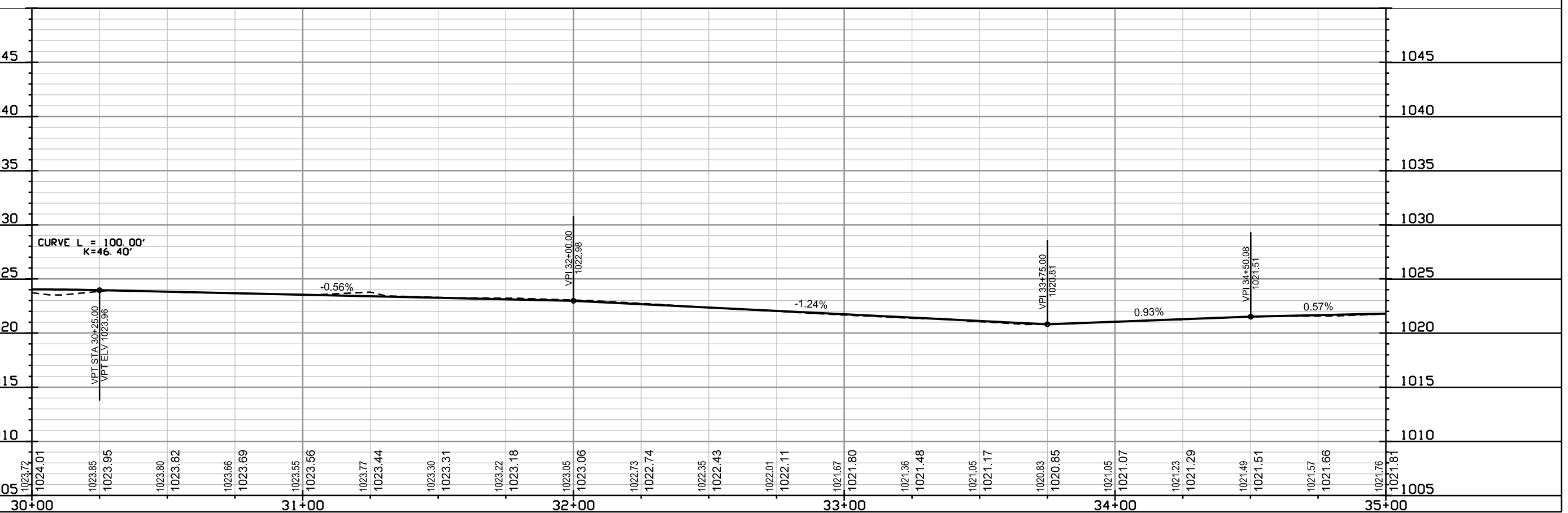
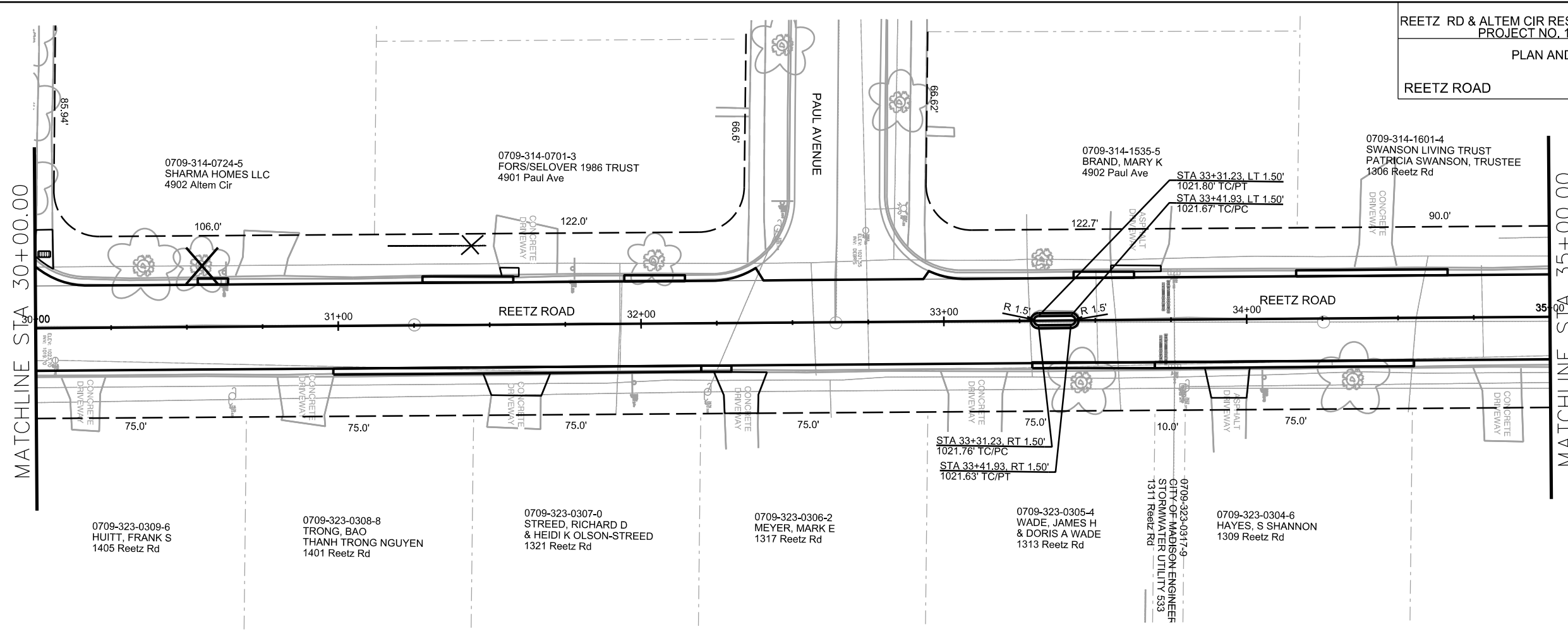
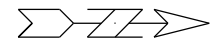


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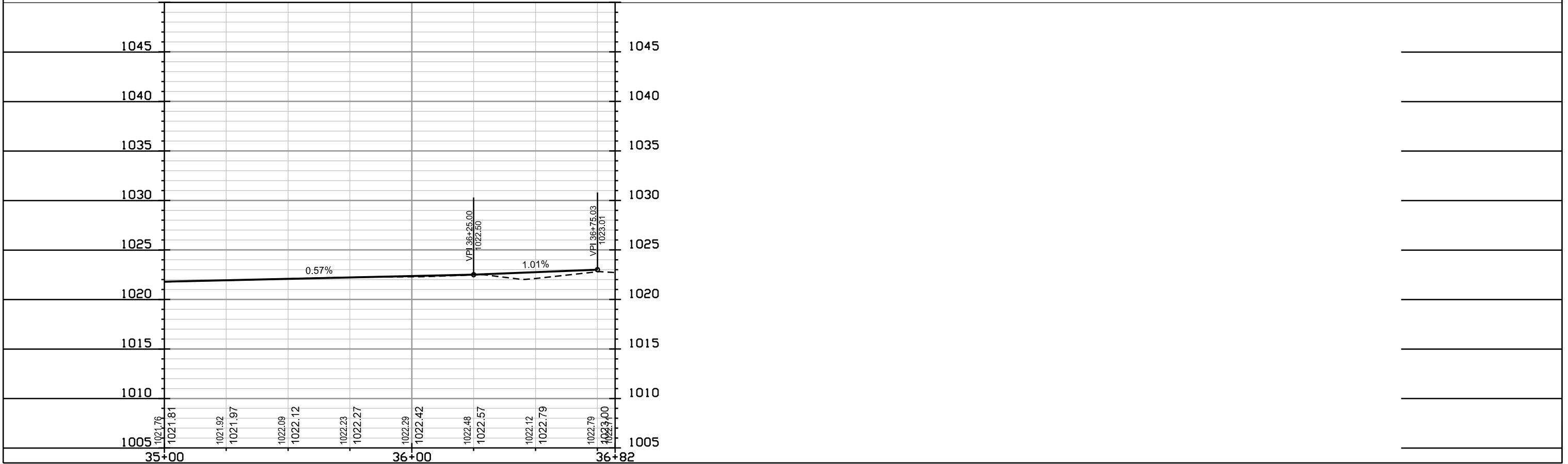
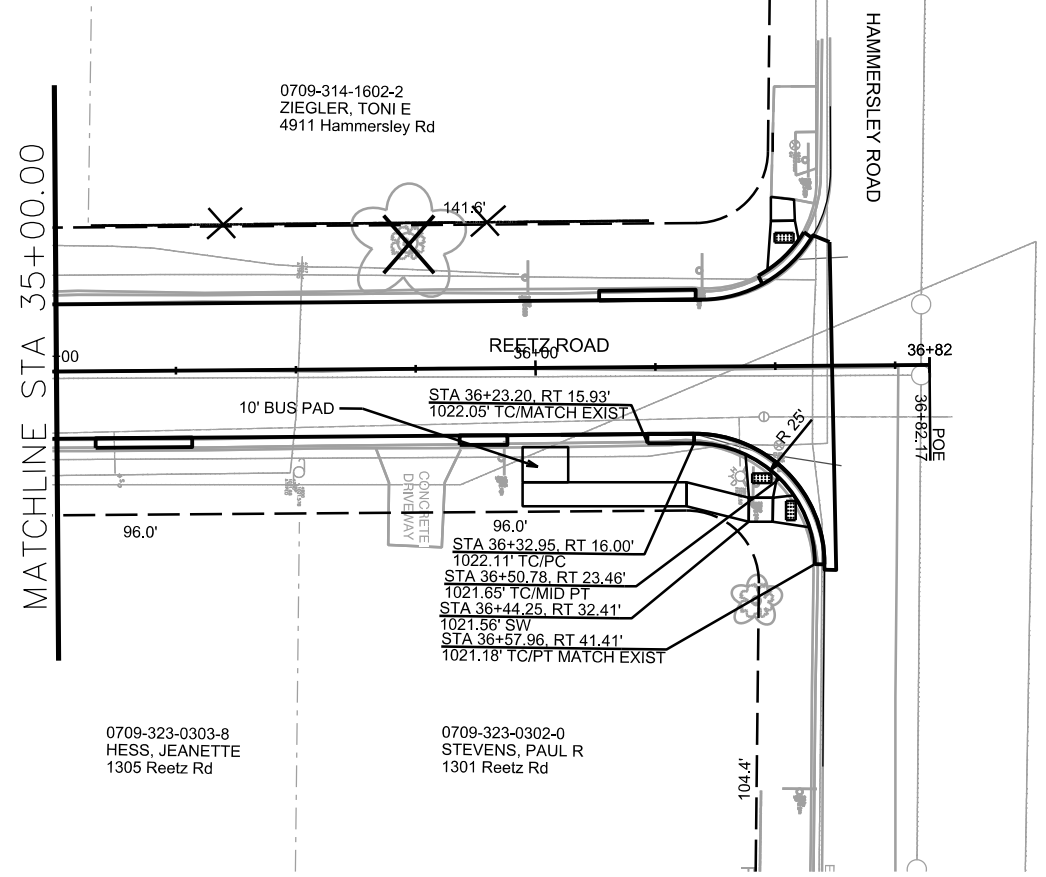


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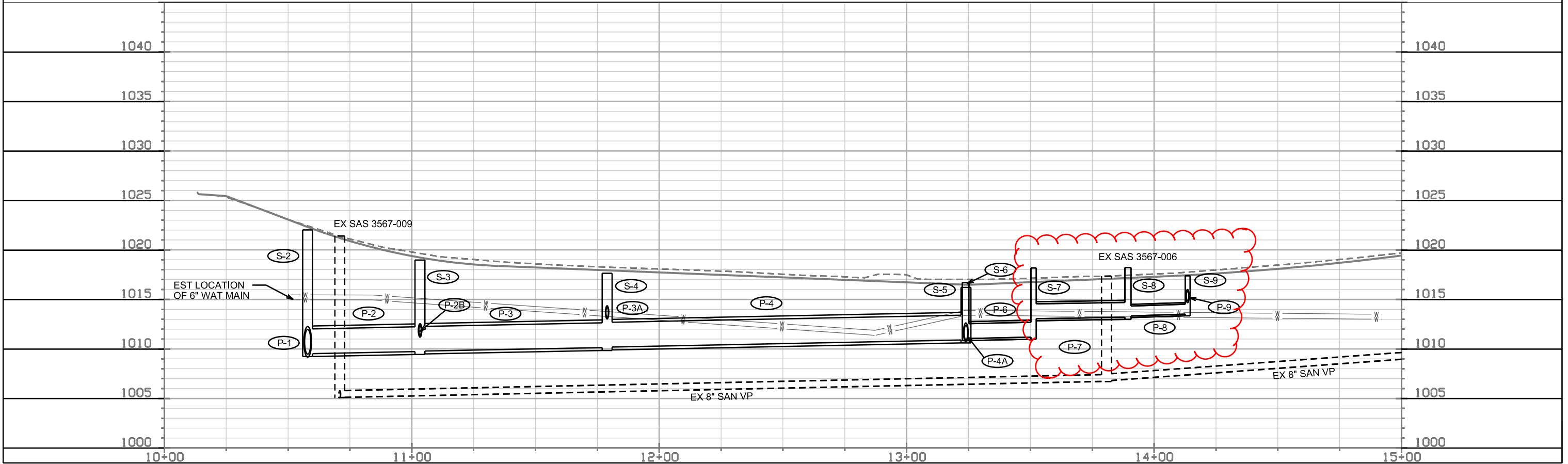
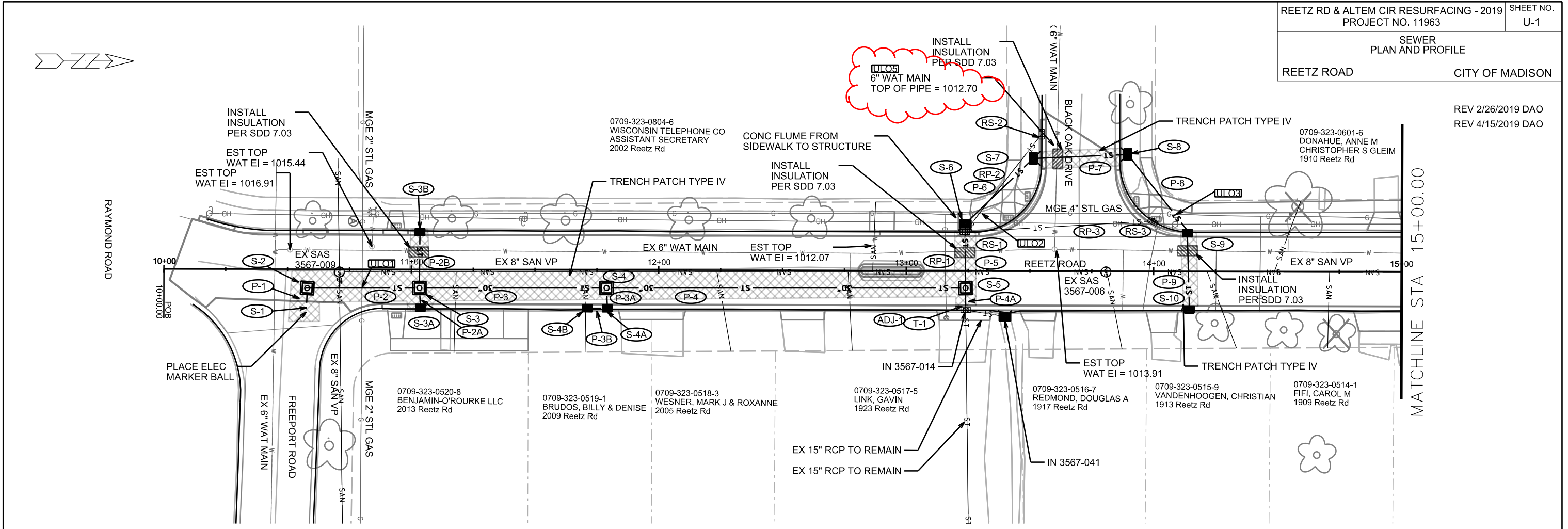
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SEWER PLAN AND PROFILE
REETZ ROAD CITY OF MADISON

REV 2/26/2019 DAO
REV 4/15/2019 DAO



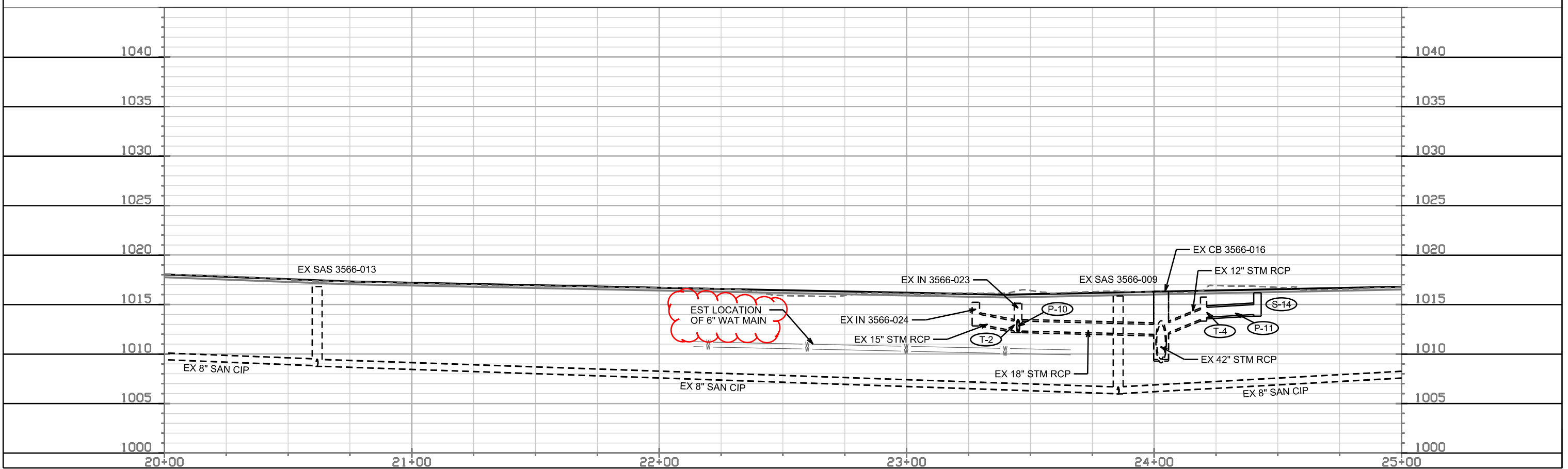
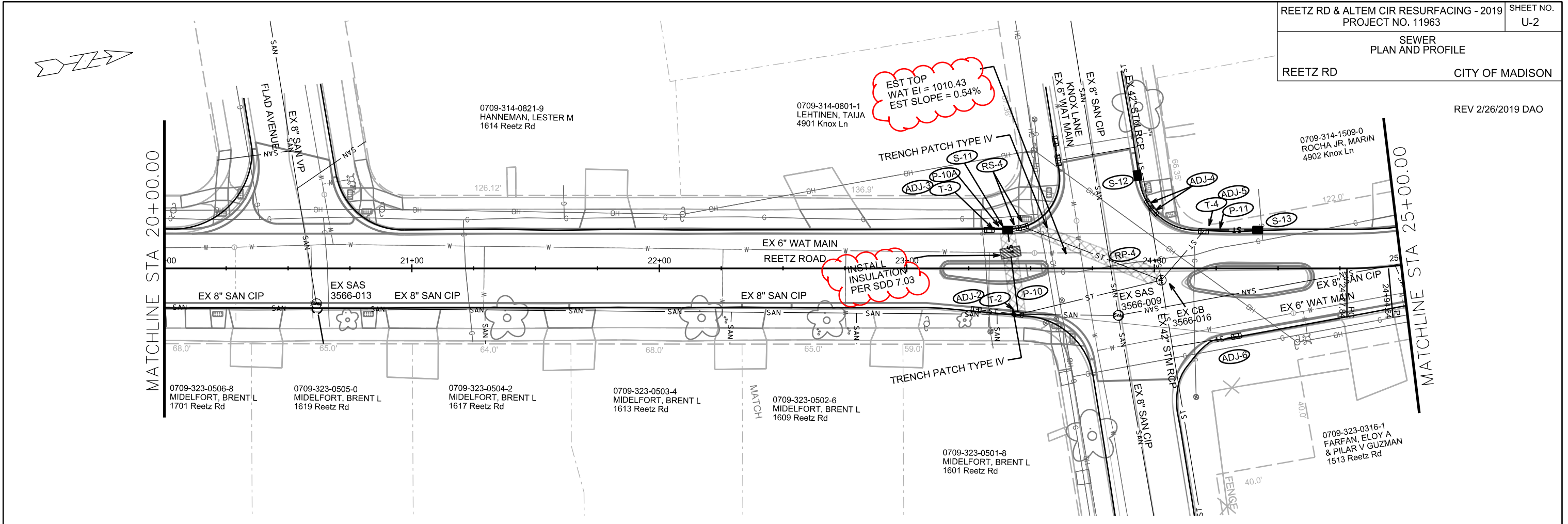
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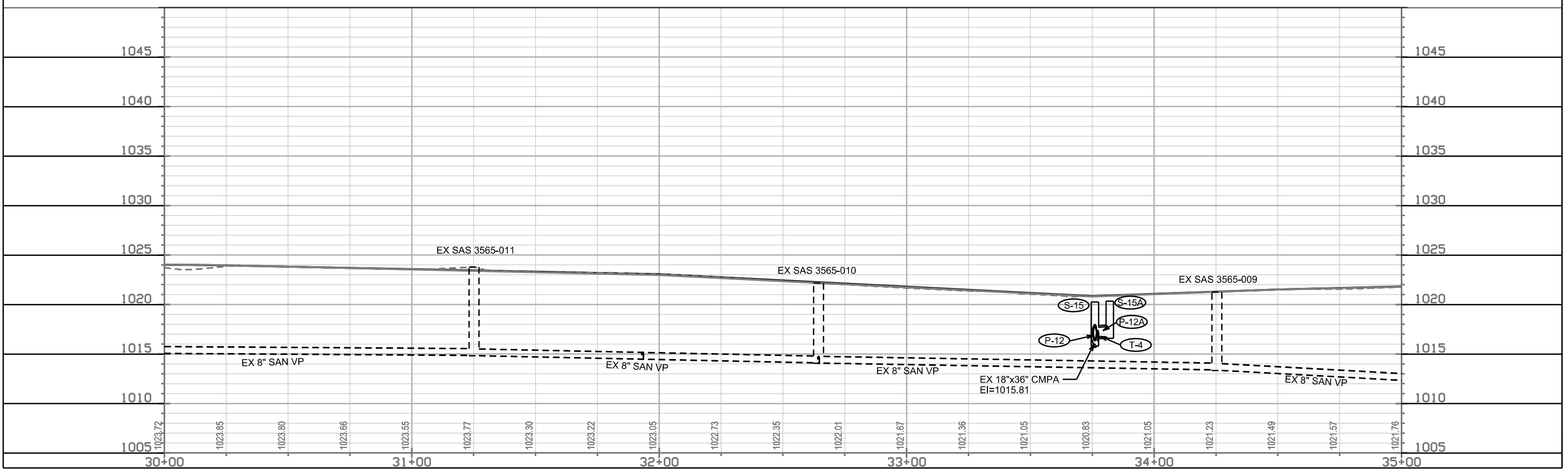
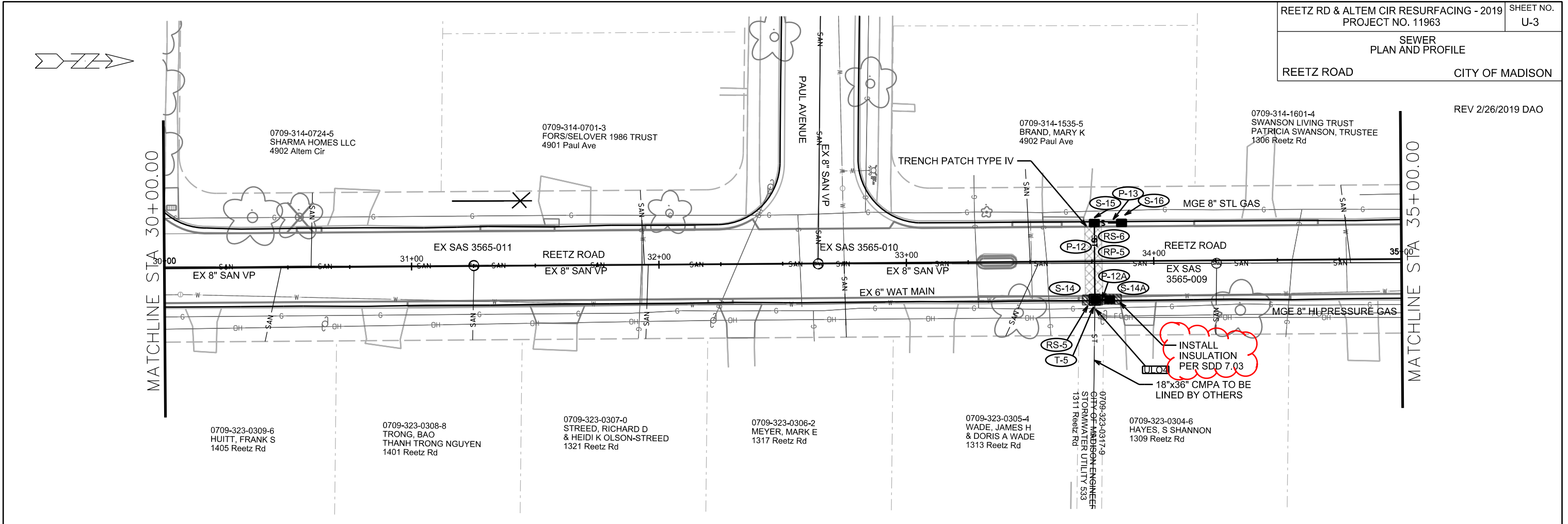
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REV 2/26/2019 DAO



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STORM SEWER SCHEDULE

* REV 2/26/2019 DAO
 ** REV 4/15/2019 DAO

REETZ RD & ALTEM CIR RESURFACING - 2019	SHEET NO.
PROJECT NO. 11963	U-4
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
REETZ RD							
S-1	10+57.50	RT-15.62	30" PIPE END	-	1009.44	-	PLUG
S-2	10+57.94	RT-7.61	4X4 SAS	1022.02	1009.47	12.55	W/1550-0054
S-3	11+03.28	RT-7.51	4X4 SAS	1018.97	1009.73	9.24	W/1550-0054
S-3A	11+03.68	RT-15.50	H INLET	1019.02	1013.30	5.72	W/3067-7004-V
S-3B	11+03.45	LT-15.08	H INLET	1019.26	1011.65	7.61	W/3067-7004-V
S-4	11+78.94	RT-7.32	4X4 SAS	1017.65	1010.14	7.51	W/1550-0054
S-4A	11+79.20	RT-15.50	H INLET	1017.75	1013.25	4.50	W/3067-7004-V
S-4B	11+71.21	RT-15.50	H INLET	1017.83	1013.33	4.50	W/3067-7004-V
S-5	13+23.96	RT-6.97	4X4 SAS	1016.21	1010.90	5.31	W/1550-0054
T-1	13+24.09	RT-15.50	EX IN 3567-014	-	1010.93	-	(5)
** S-6	13+23.78	LT-18.99	Terrace Inlet 3	1016.30	1011.00	5.30	FP; (1)
** S-7	13+51.30	LT-45.47	Terrace Inlet 3	1017.98	1011.19	6.79	FP; (1)
** S-8	13+89.43	LT-47.11	Terrace Inlet 3	1018.01	1013.20	4.81	FP; (1)
** S-9	14+13.58	LT-15.50	H INLET	1017.43	1013.52	3.91	FP; W/3067-7004-V
* S-10	14+14.45	RT-15.50	H INLET	1017.27	1014.97	2.30	FP; W/3067-7004-V
T-2	23+45.02	RT-18.59	EX IN 3566-023	-	1012.32	-	(5)
S-11	23+40.75	LT-15.50	H INLET	1016.58	1012.84	3.74	LP; W/3067-7004-VB
T-3	23+33.33	LT-15.84	EX IN 3556-022	-	1013.42	-	(5)
S-12	23+93.22	LT-37.51	H INLET	1016.35	1010.36	5.99	W/3067-7004-V; (2)
T-4	24+19.97	LT-15.50	EX IN 3566-019	-	1013.71	-	(5)
S-13	24+41.77	LT-15.50	H INLET	1016.18	1013.80	2.38	FP; W/3067-7004-V
T-5	33+76.09	LT-15.50	EX 18"x36" CMPA	-	1015.81	-	(5)
S-14	33+76.07	RT-15.50	3X3 SAS	1020.25	1015.81	4.44	LP; FP; W/3067-7004-VB; (3)
S-14A	33+82.06	RT-15.50	H INLET	1020.34	1016.75	3.59	W/3067-7004-V
S-15	33+76.08	LT-15.50	H INLET	1020.83	1016.61	4.22	LP; W/3067-7004-VB
S-16	33+87.09	LT-15.50	H INLET	1020.90	1016.90	4.00	W/3067-7004-V

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
REETZ RD										
P-1	S-1	S-2	1009.44	1009.47	8	6	0.50%	30"	RCP	
P-2	S-2	S-3	1009.52	1009.73	46	41	0.51%	30"	RCP	
P-2A	S-3	S-3A	1013.20	1013.30	7	5	2.00%	12"	RCP	NCM
* P-2B	S-3	S-3B	1011.26	1011.65	22	20	1.99%	12"	RCP	
P-3	S-3	S-4	1009.78	1010.14	76	72	0.50%	30"	RCP	
P-3A	S-4	S-4A	1013.20	1013.25	8	5	0.96%	12"	RCP	NCM
P-3B	S-4A	S-4B	1013.30	1013.33	7	5	0.60%	12"	RCP	
P-4	S-4	S-5	1010.19	1010.90	145	141	0.50%	30"	RCP	
P-4A	S-5	T-1	1010.90	1010.93	9	5	0.60%	18"	RCP	
* P-5	S-5	S-6	1010.90	1011.00	26	23	0.43%	18"	RCP	
* P-6	S-6	S-7	1011.05	1011.19	39	36	0.39%	18"	RCP	
** P-7	S-7	S-8	1013.05	1013.20	39	36	0.41%	18"	RCP	NCM
** P-8	S-8	S-9	1013.33	1013.52	39	38	0.51%	12"	RCP	NCM
* P-9	S-9	S-10	1014.83	1014.97	29	29	0.48%	12"	RCP	
P-10	T-2	S-11	1012.32	1012.84	35	32	1.61%	12"	RCP	
P-10A	S-11	T-3	1012.84	1013.42	8	4	13.18%	12"	RCP	
P-11	T-4	S-13	1013.71	1013.80	19	19	0.48%	12"	RCP	
P-12	S-14	S-15	1016.45	1016.61	29	29	0.56%	15"	RCP	
P-12A	S-14	S-14A	1016.70	1016.75	5	3	1.67%	12"	RCP	
P-13	S-15	S-16	1016.86	1016.90	8	8	0.50%	12"	RCP	

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	T-1	RS-1	31	12"	RCP	N	
RP-2	RS-1	RS-2	51	12"	RCP	N	
RP-3	RS-1	RS-3	75	12"	RCP	Y	
RP-4	RS-4	STA 24+02.82, RT 4.80'	74	18"	RCP	Y	REMOVE TO EX AS 3566-016
RP-5	RS-6	RS-7	31	18"x36"	CMPA	N	

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	IN 3567-015	13+23.63	LT-15.07	EX INLET	
RS-2	IN 3567-012	13+55.18	LT-55.26	EX INLET	
RS-3	IN 3567-013	13+99.86	LT-20.11	EX INLET	(4)
RS-4	IN 3566-011	23+45.18	LT-15.88	EX DOUBLE INLET	
RS-5	IN 3565-005	33+76.09	RT-15.38	EX INLET	
RS-6	IN 3565-006	33+76.08	LT-15.48	EX INLET	

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
** ULO1	10+80.09	RT-7.56'	2" STL GAS	TOP @ 1015.25
** ULO2	13+33.18	LT-28.03'	4" STL GAS	TOP @ 1012.81
** ULO3	14+.07.97	LT-23.07'	4" STL GAS	TOP @ 1015.08
** ULO4	33+76.03	RT-18.99'	8" HP GAS	TOP @ 1015.02
** ULO5	13+60.76	LT-45.88'	6" WATER	TOP @ 1012.70

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.

ADJUST OR REMOVE STORM STRUCTURES

STRUC. NO.	TYPE	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP TOC	ADJ (FT)	NOTES
ADJ-1	IN 3567-014	13+24.09	RT-15.50	1016.13	1016.30	0.17	
ADJ-2	IN 3566-023	23+45.03	RT-18.60	1015.12	1015.48	0.36	(6)
ADJ-3	IN 3566-022	23+33.35	LT-15.50	1015.12	1015.24	0.12	
ADJ-4	IN 3566-010	23+99.79	LT-23.01	1015.60	1016.21	0.61	
ADJ-5	IN 3566-019	24+19.86	LT-14.96	1015.75	1016.07	0.32	
ADJ-6	IN 3566-018	24+33.02	RT-26.63	1014.86	1015.38	0.52	

SPECIFIC NOTES

- (1) GRATE ELEVATION 0.2 FT BELOW TOC ELEVATION
- (2) SADDLED INLET TYPE 2 OR PRECAST SADDLED INLET TYPE B
- (3) CONNECT 18"x36" CMPA (T-5) TO S-14
- (4) PAID AS 2 REMOVALS
- (5) FIELD TAP
- (6) EX DOUBLE SADDLED INLET; PAID AS 2 CASTING ADJUSTMENTS

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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

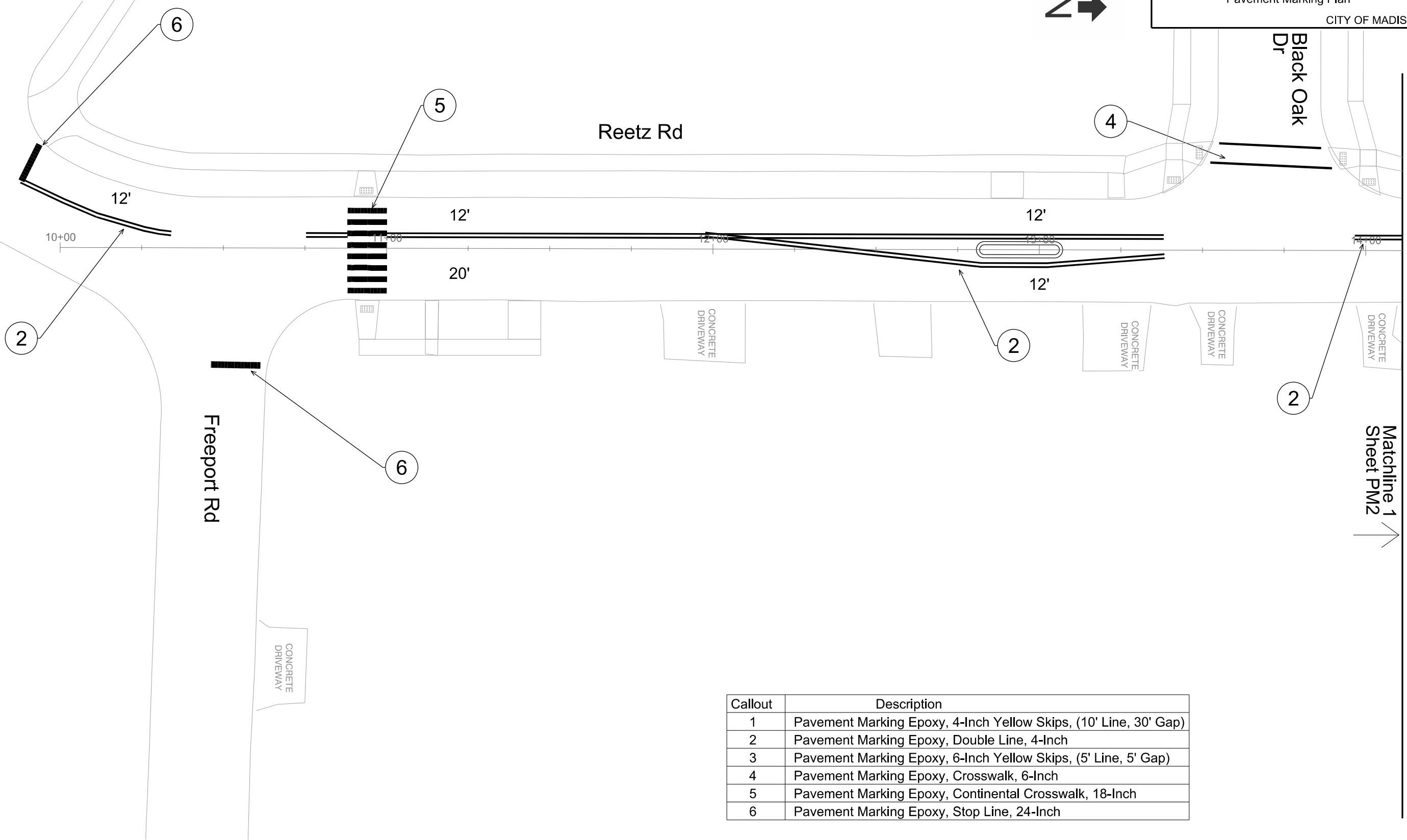


Black Oak Dr

Reetz Rd

Freepoint Rd

Matchline 1
Sheet PM2



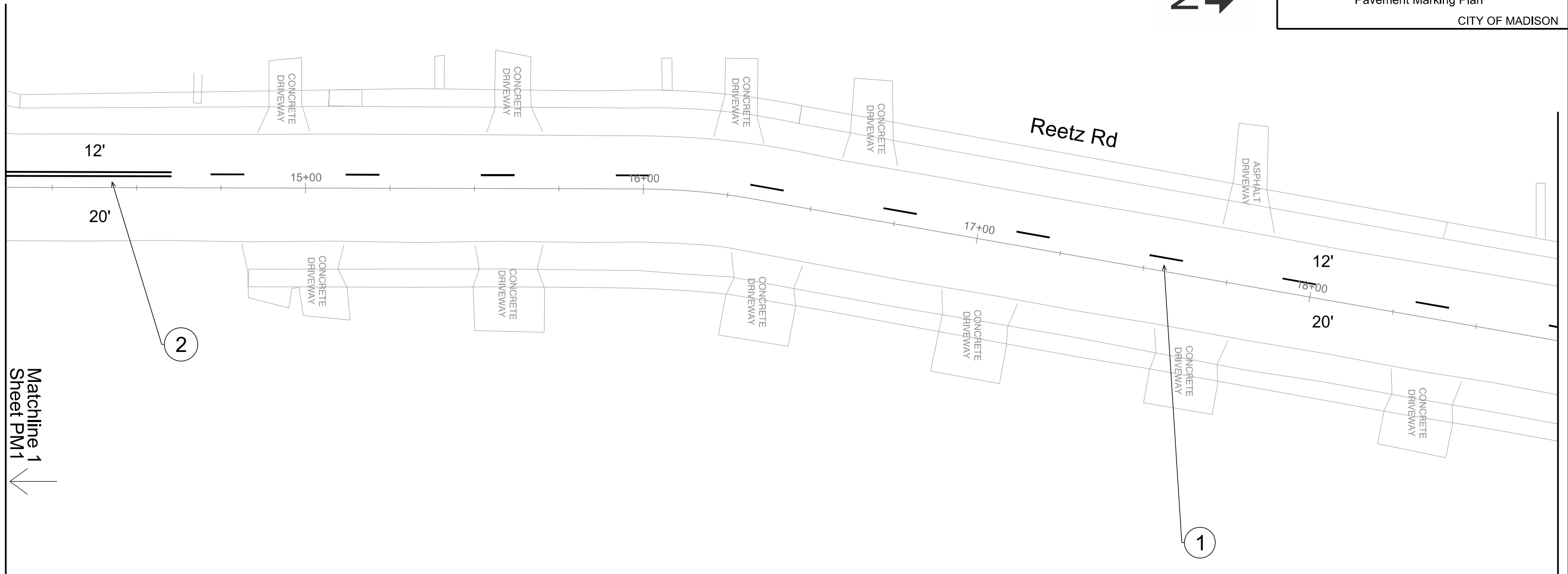
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2	Pavement Marking Epoxy, Double Line, 4-Inch
3	Pavement Marking Epoxy, 6-Inch Yellow Skips, (5' Line, 5' Gap)
4	Pavement Marking Epoxy, Crosswalk, 6-Inch
5	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
6	Pavement Marking Epoxy, Stop Line, 24-Inch

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Matchline 1
Sheet PM1

Matchline 2
Sheet PM3

Callout	Description
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5	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
6	Pavement Marking Epoxy, Stop Line, 24-Inch

PLOT SCALE:

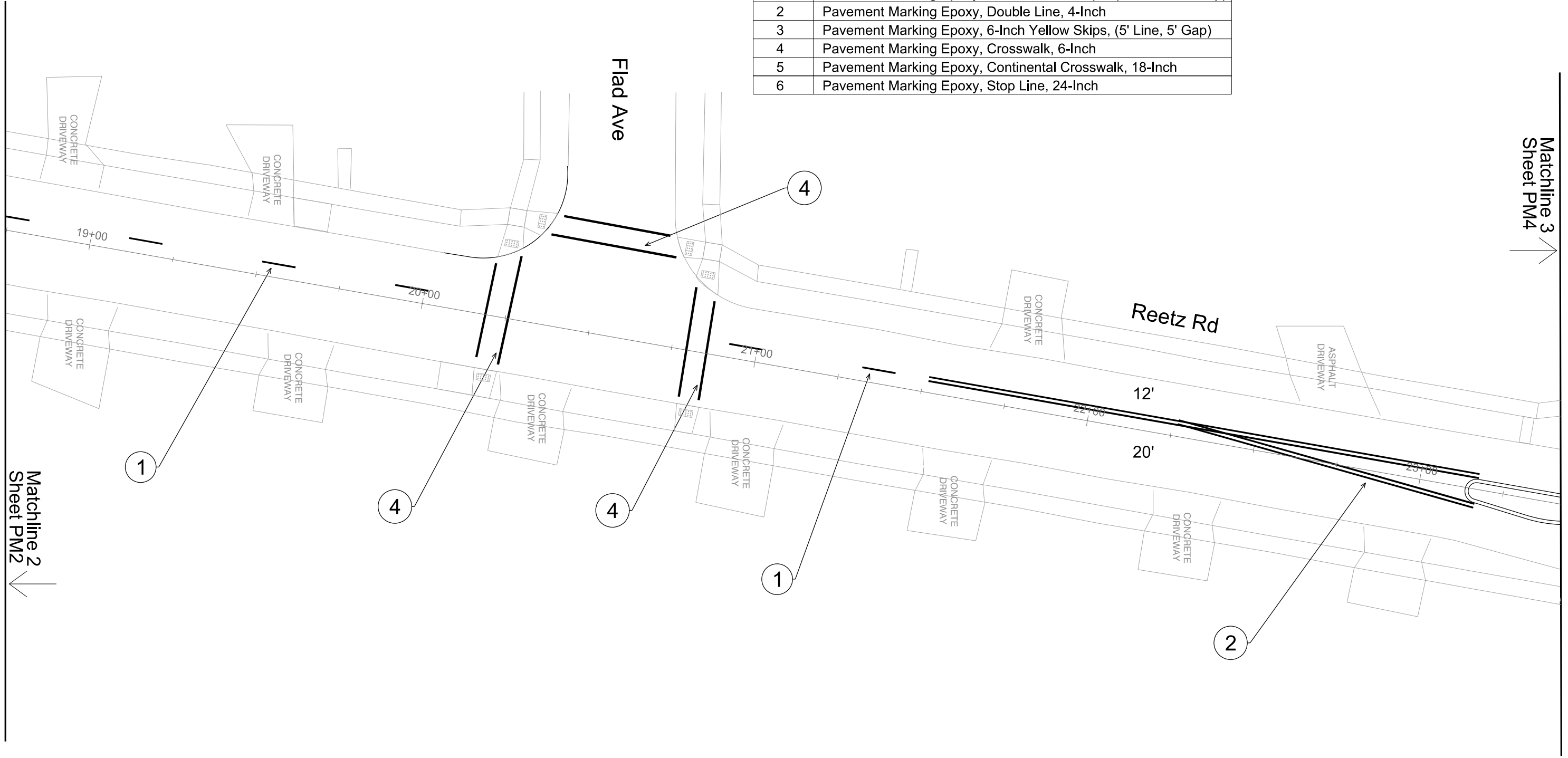
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PLOT SCALE:

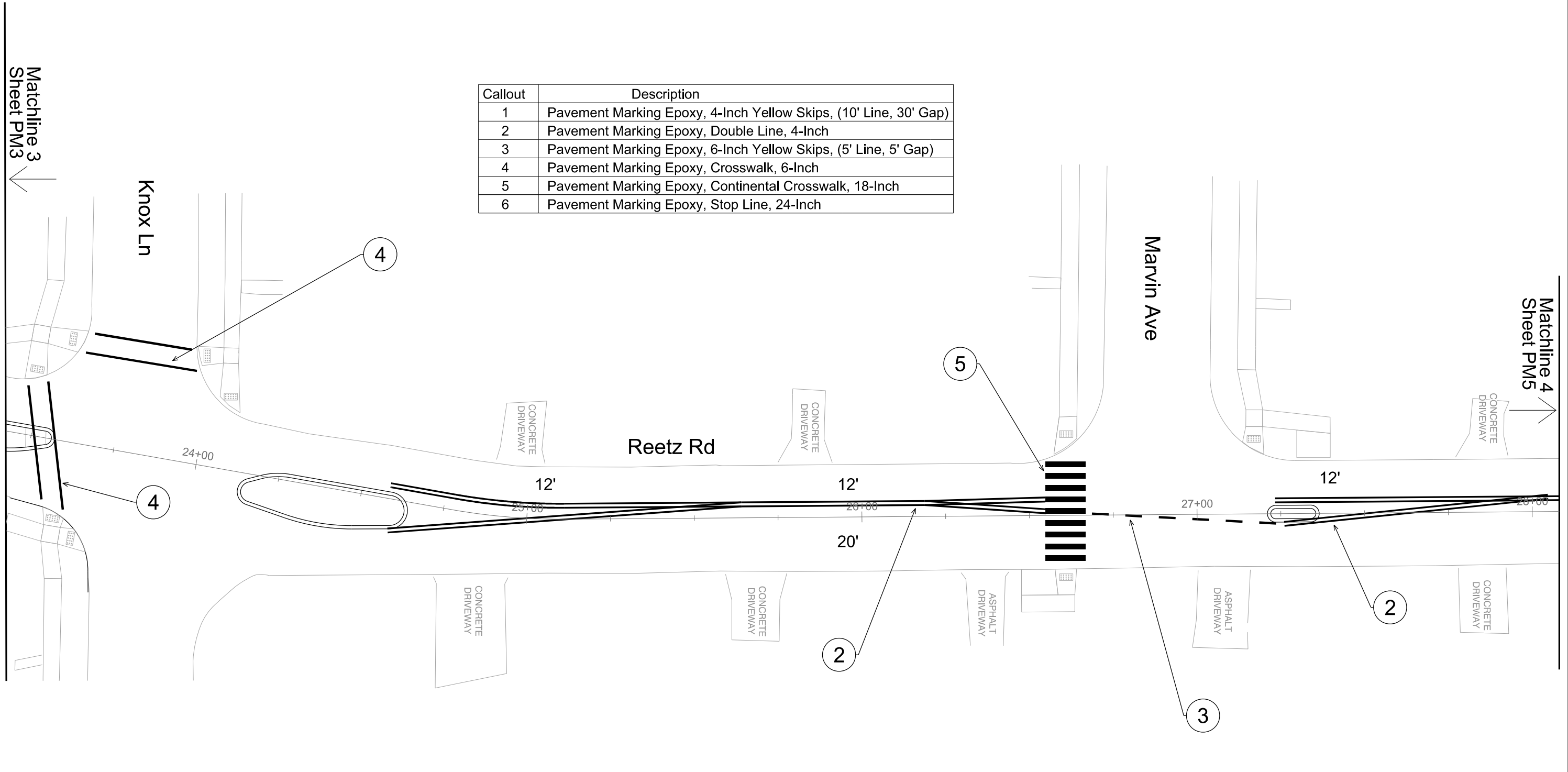
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PLOT SCALE:

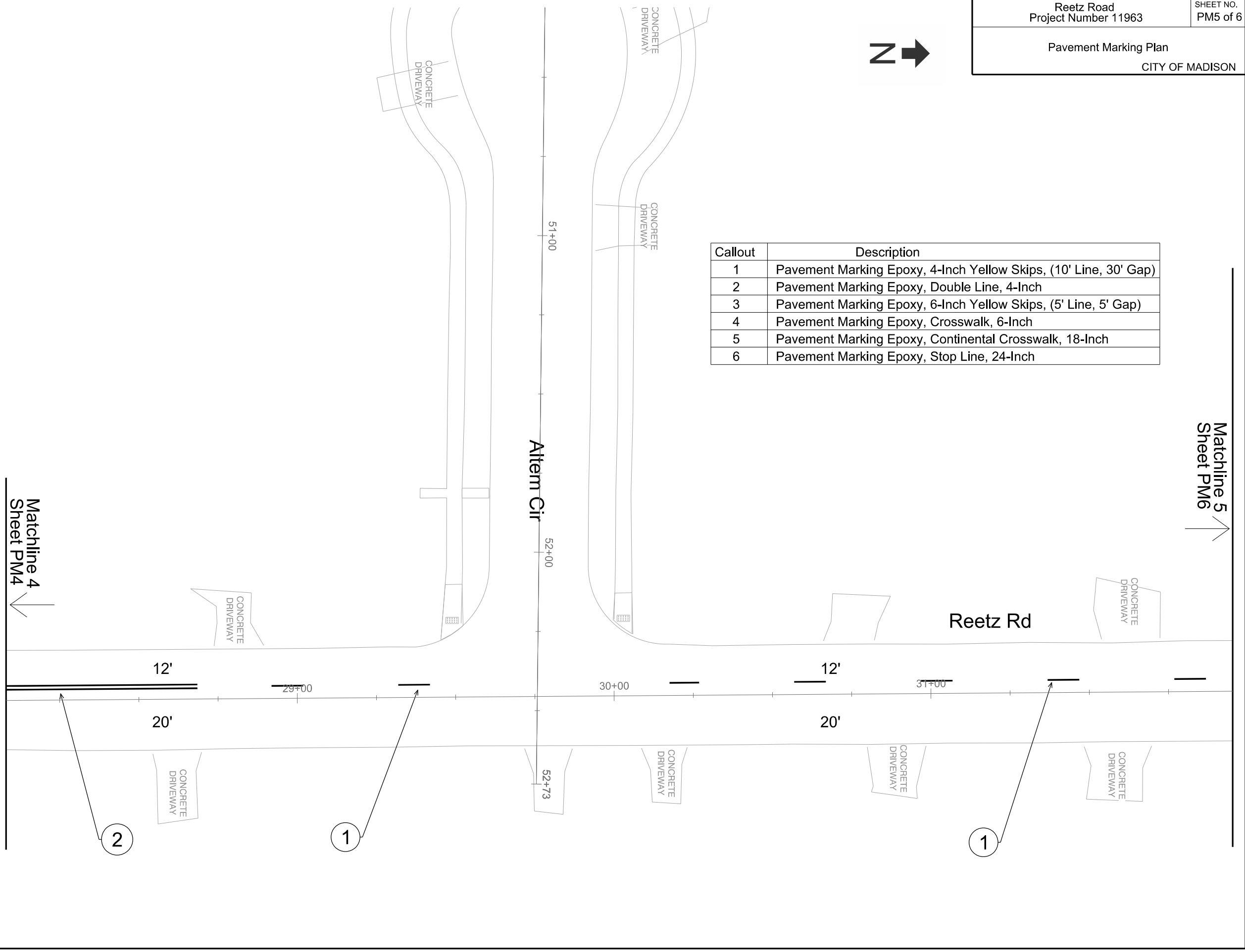
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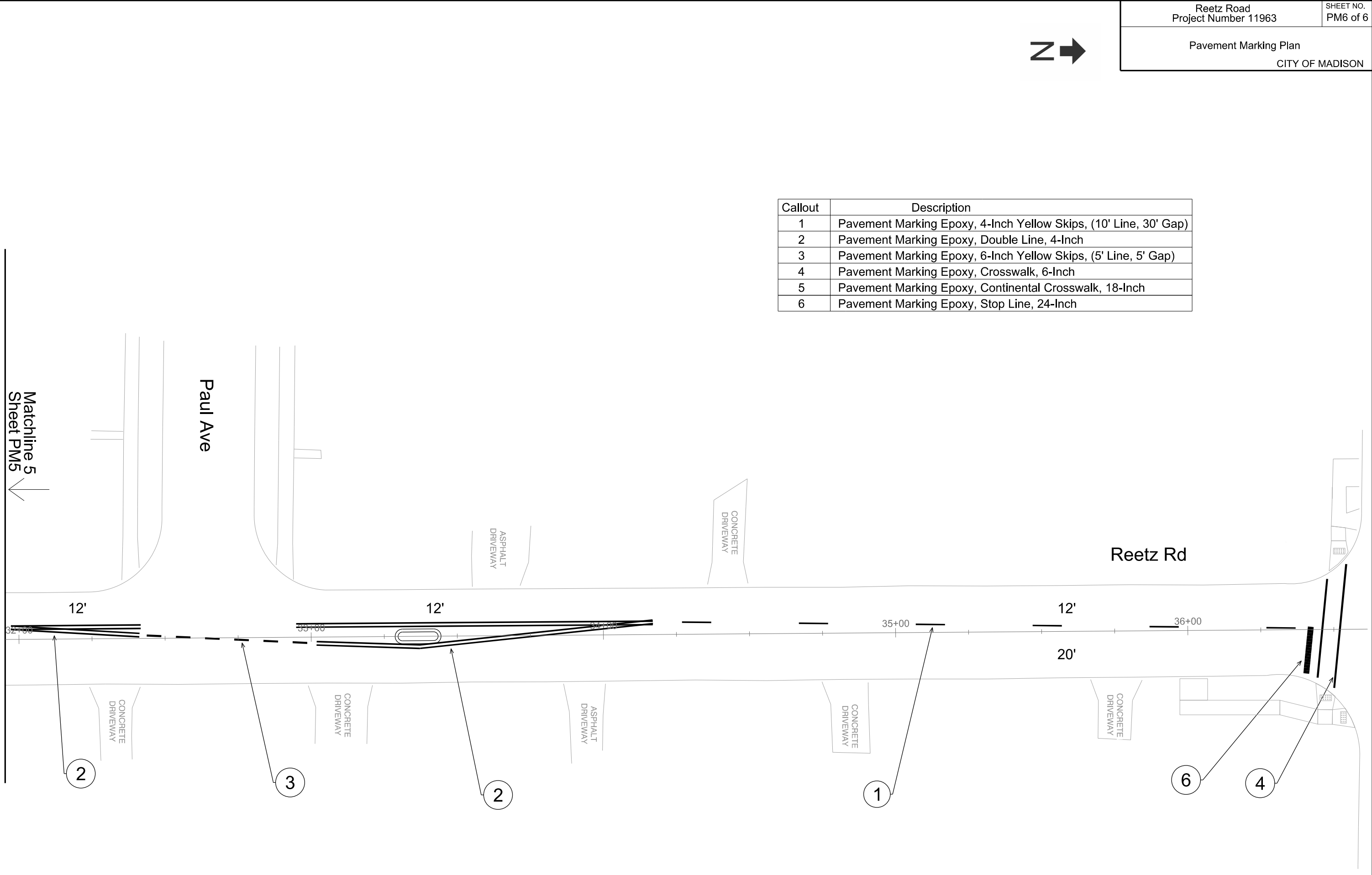
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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

CROSS SECTIONS

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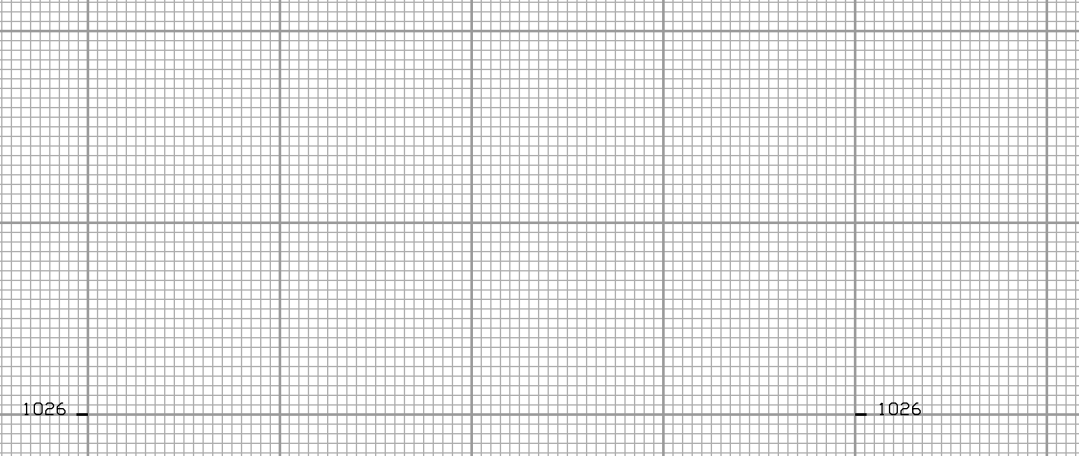
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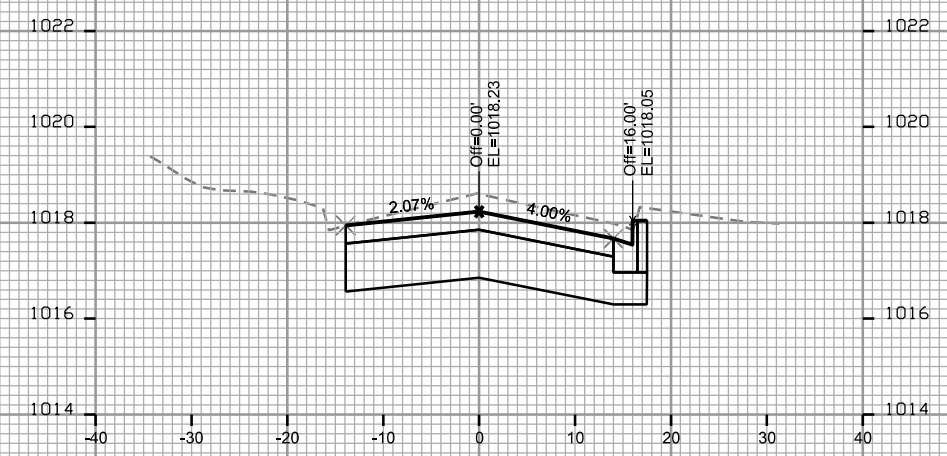
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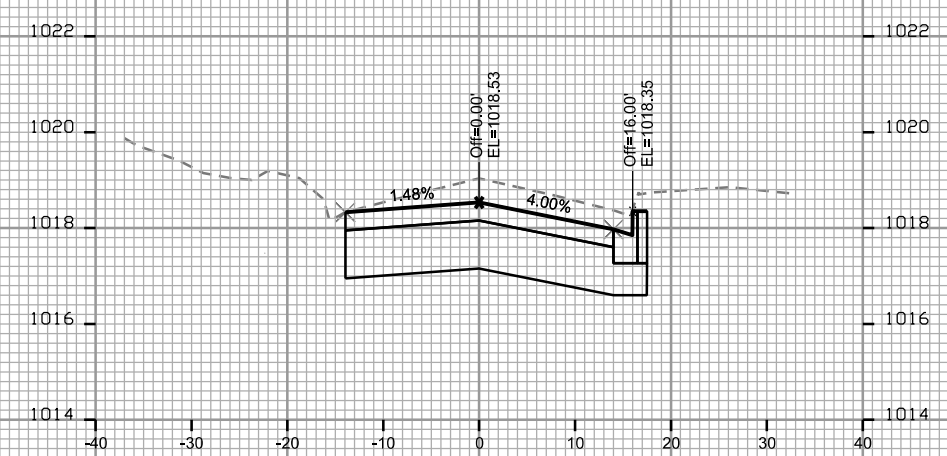
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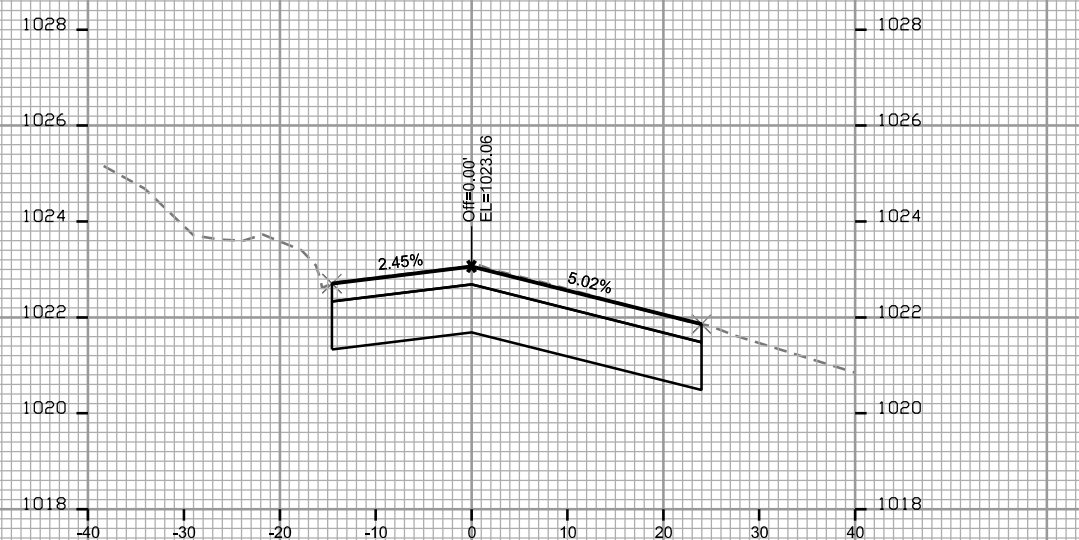
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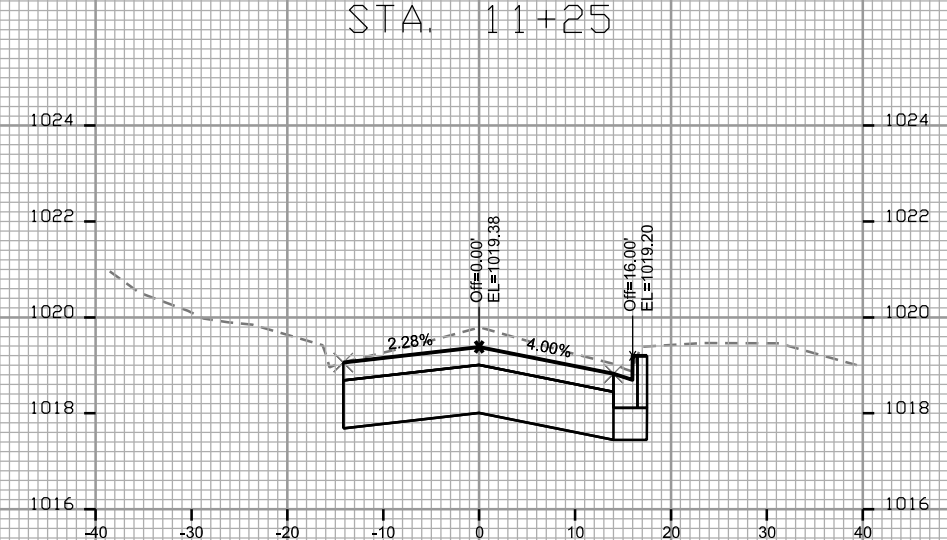
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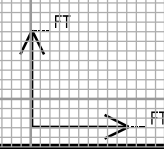
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STA. 10+50



STA. 11+00



CROSS SECTIONS

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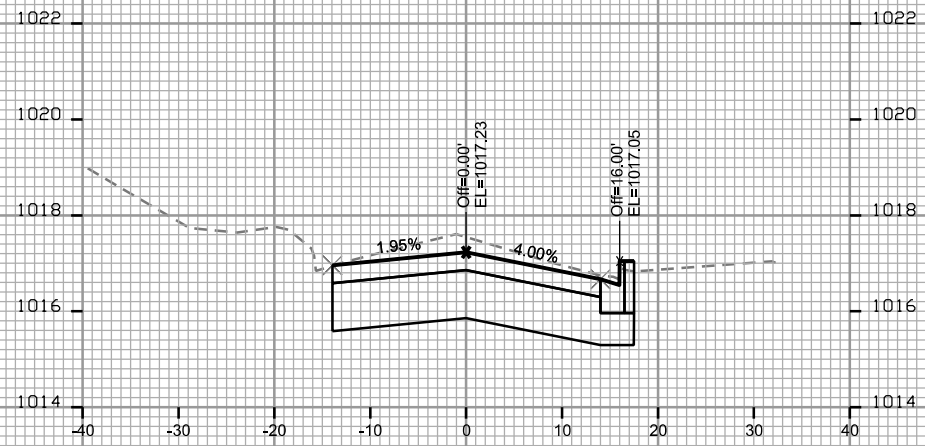
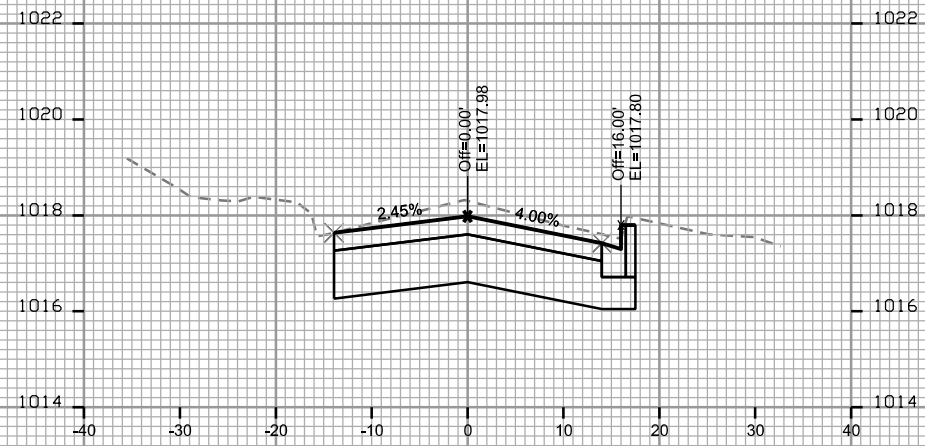
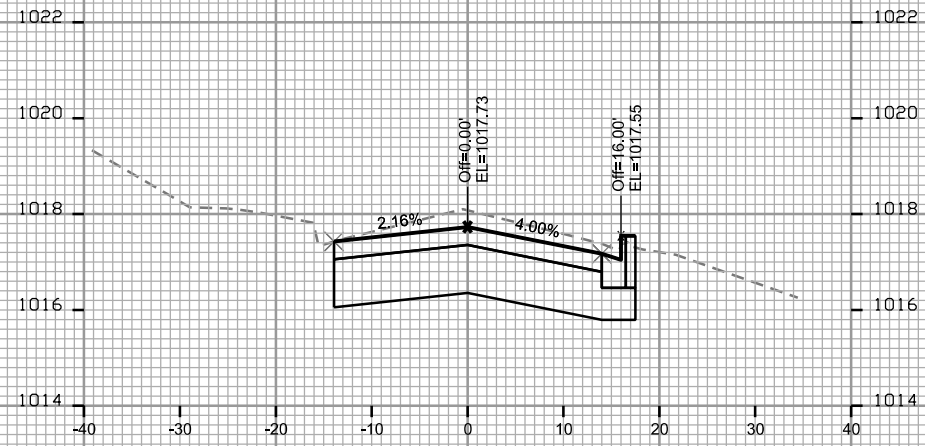
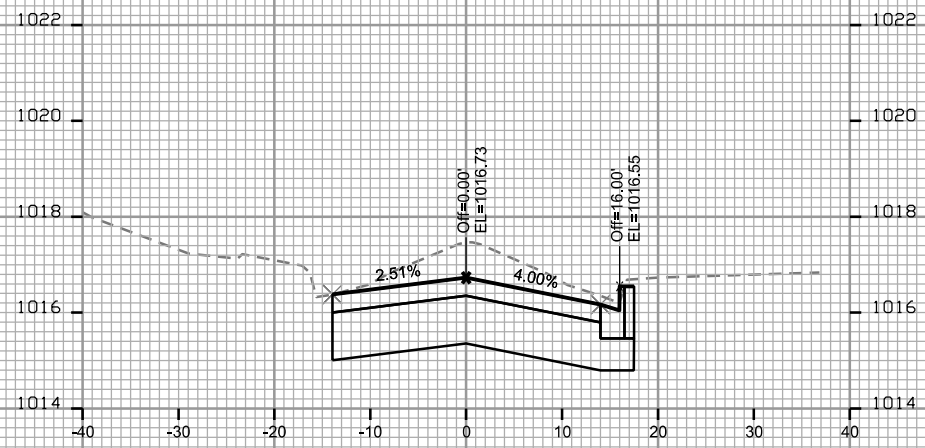
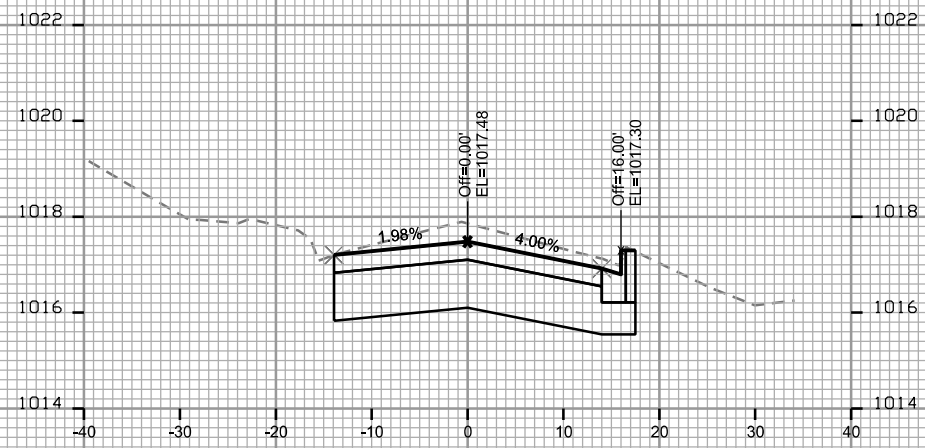
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CROSS SECTIONS

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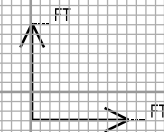
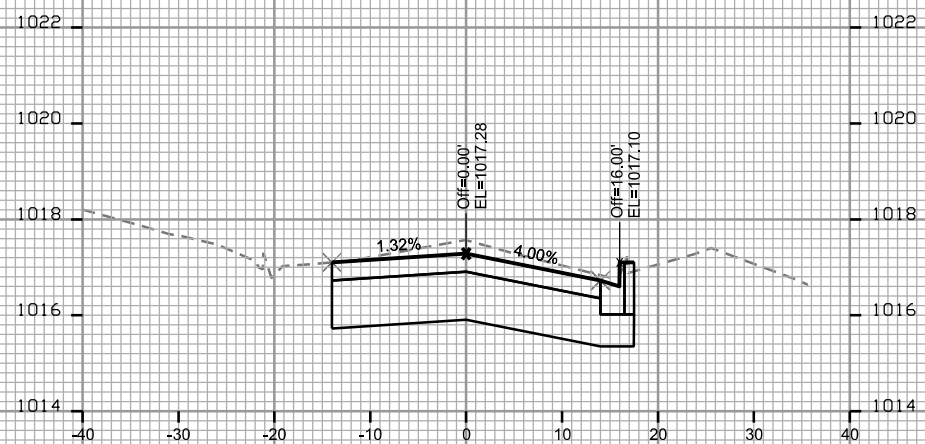
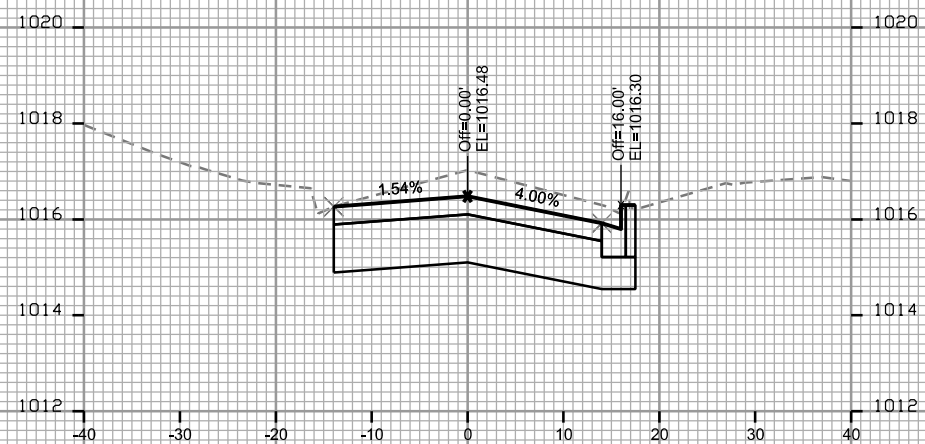
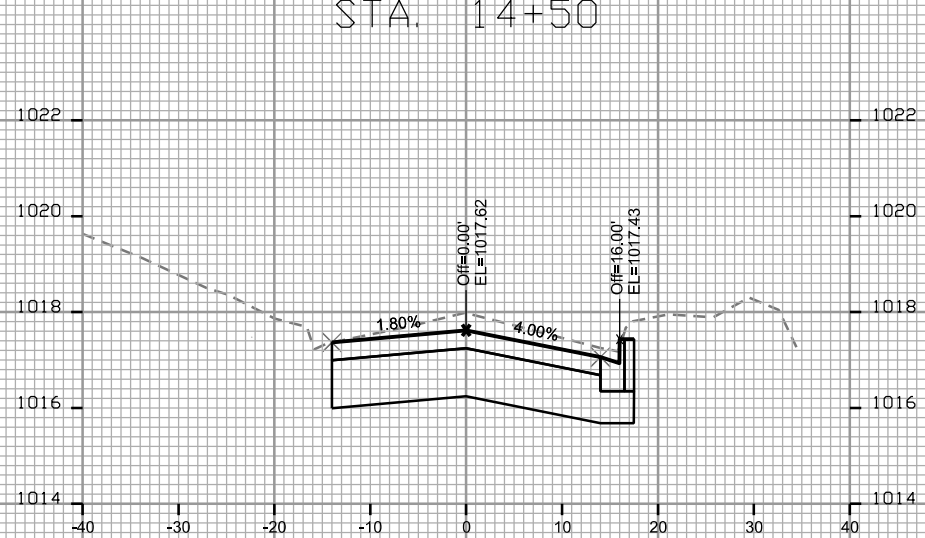
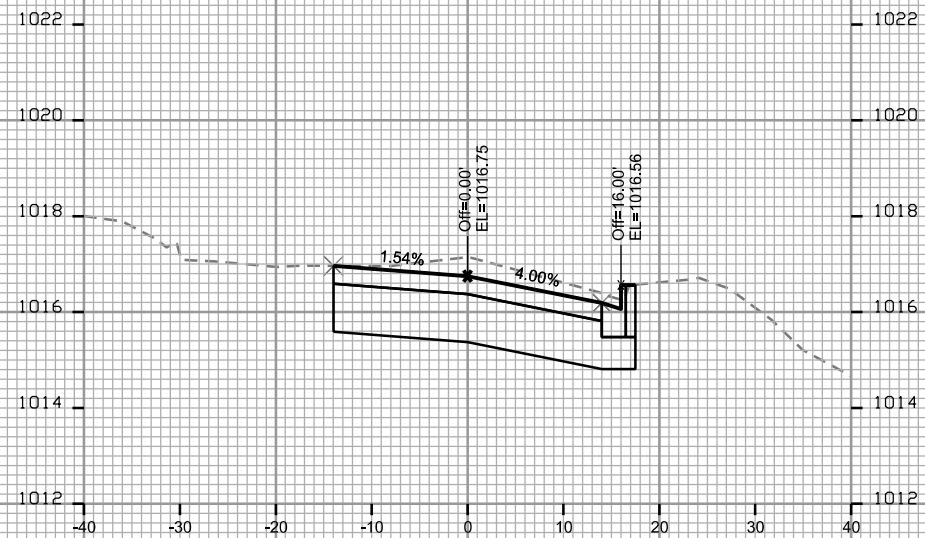
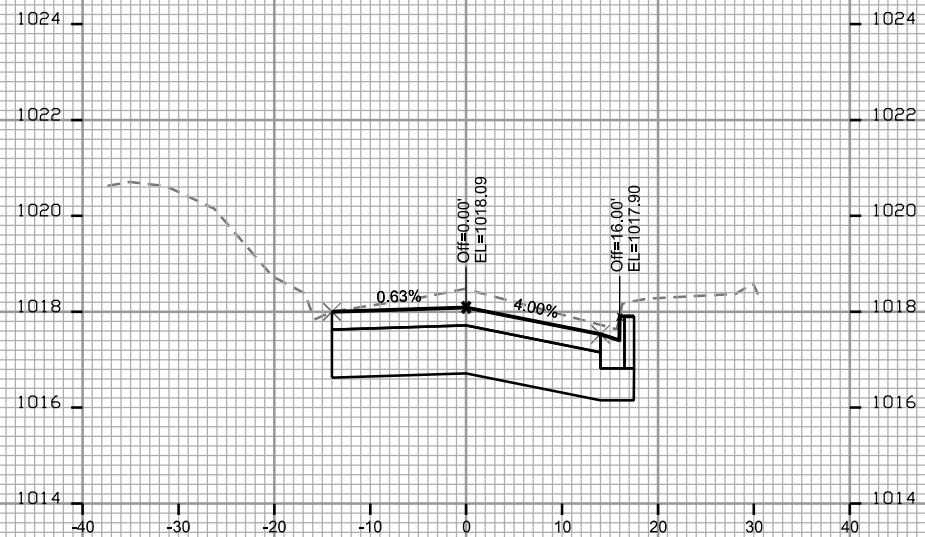
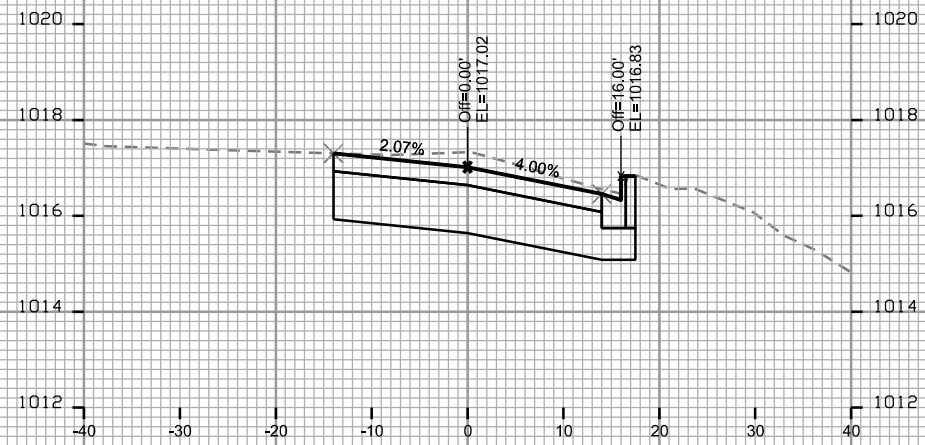
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CROSS SECTIONS

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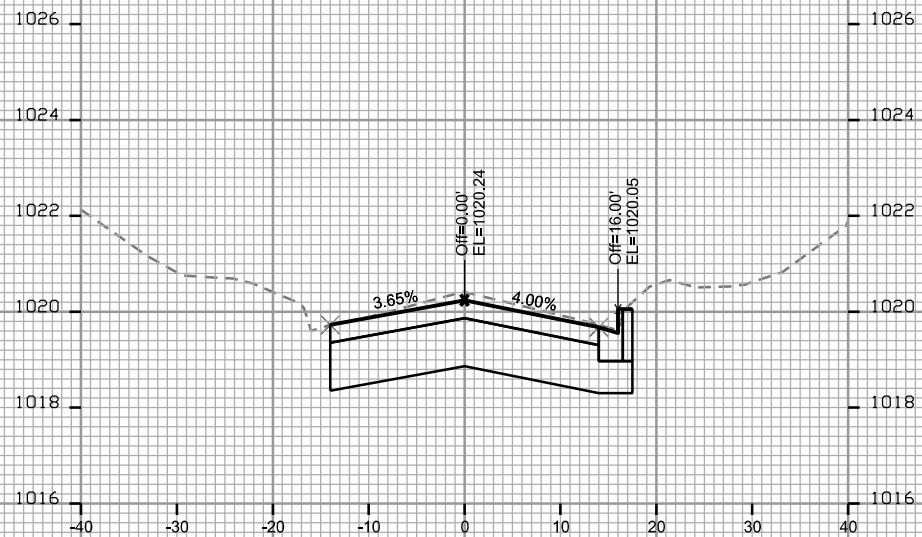
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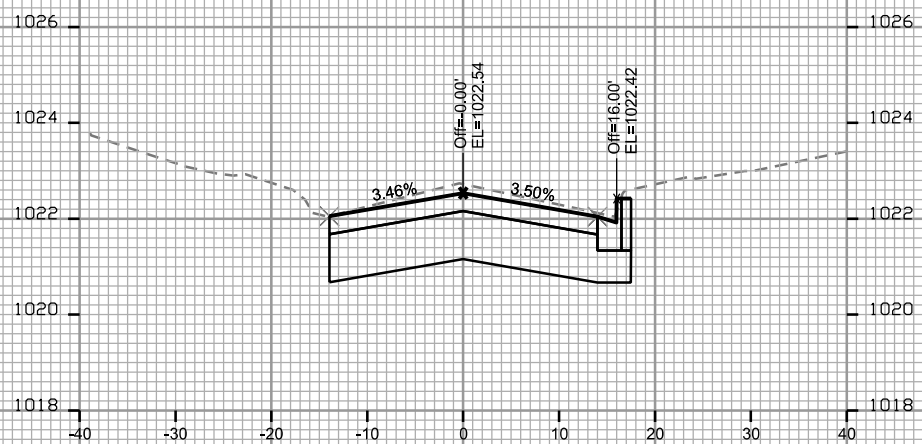
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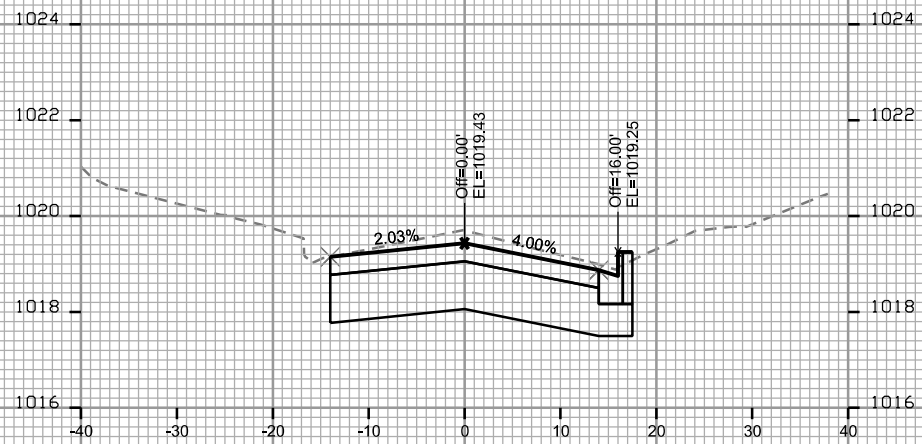
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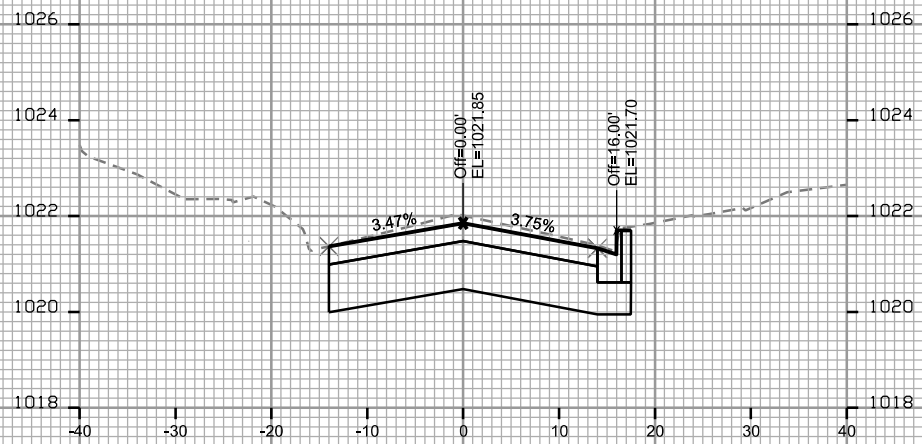
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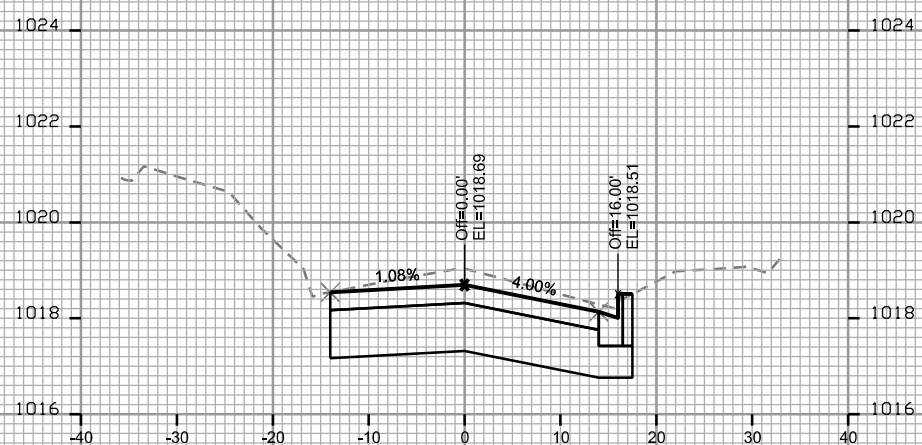
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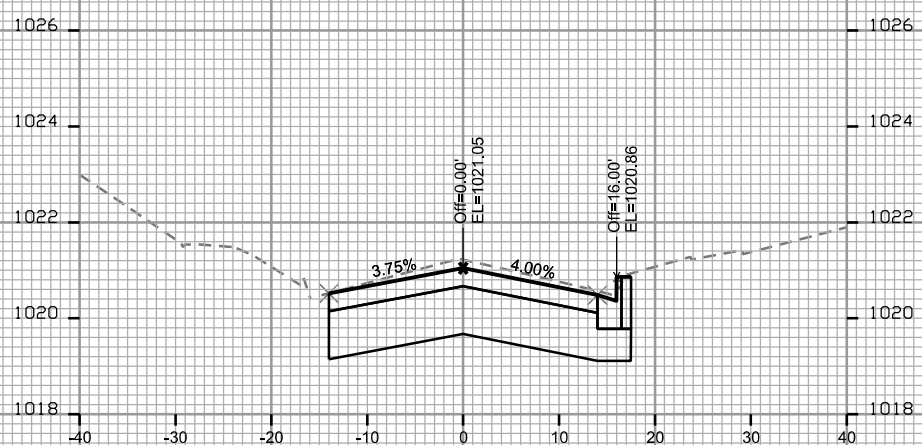
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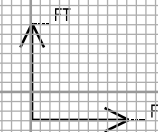
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STA. 14+75



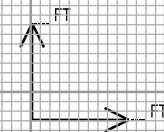
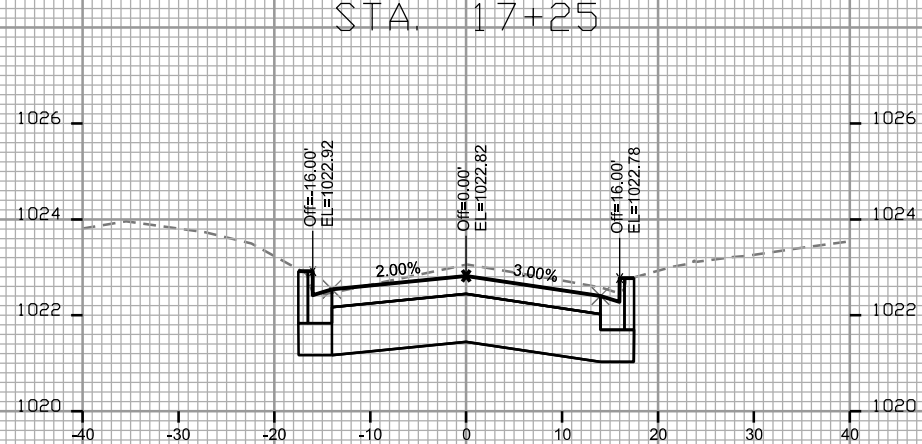
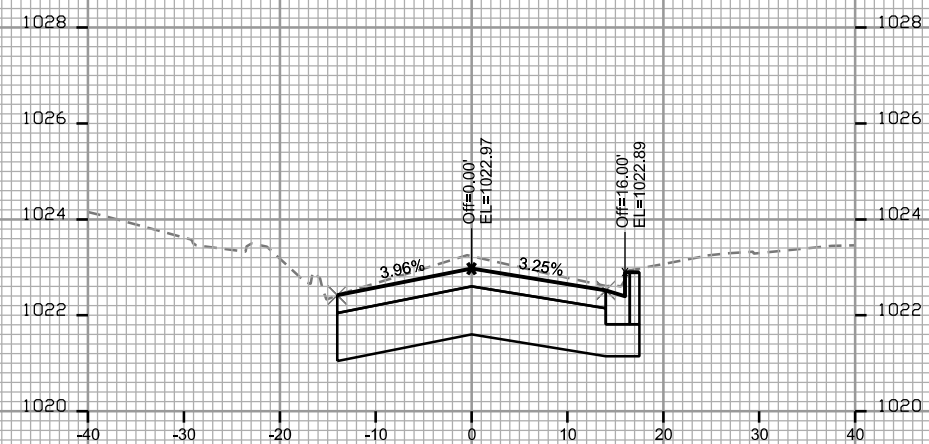
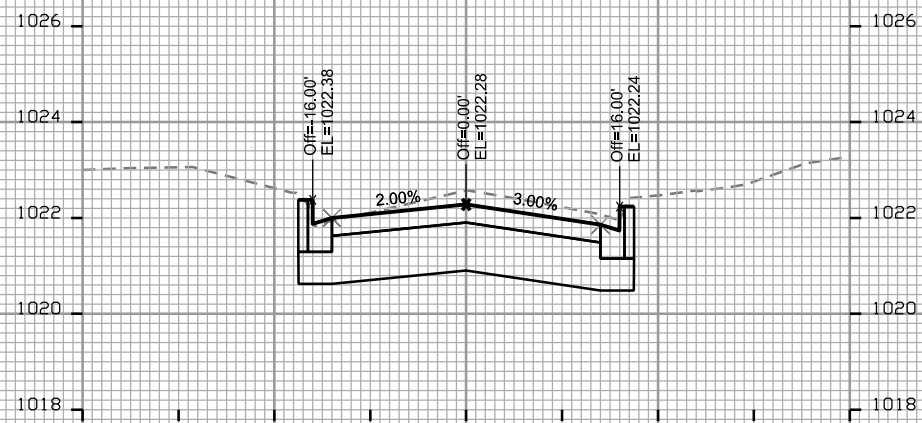
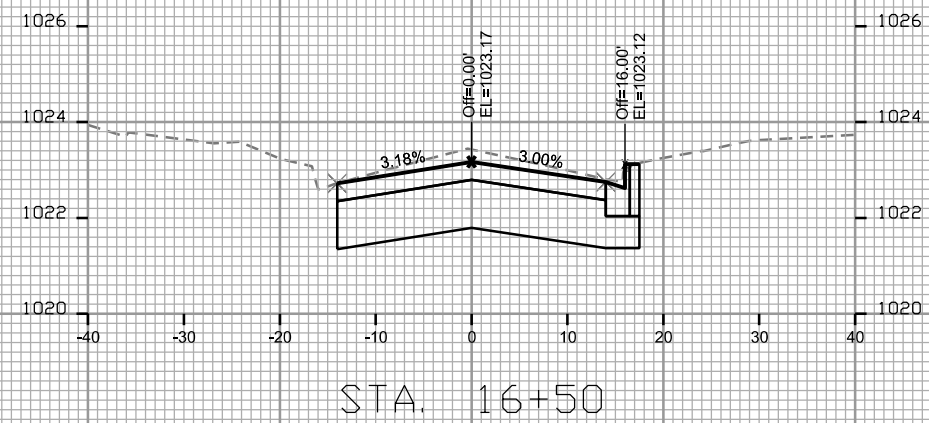
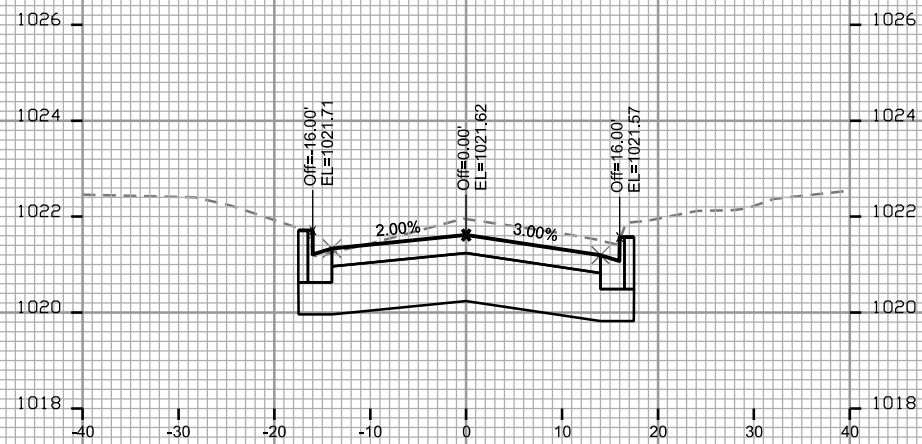
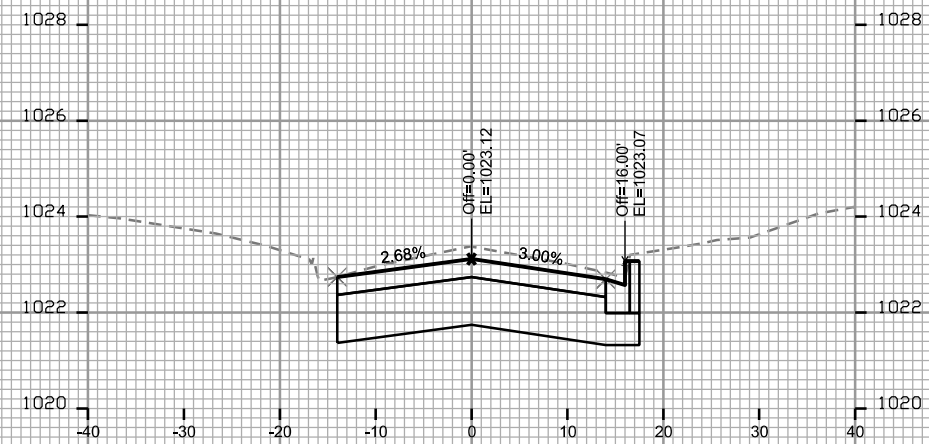
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CROSS SECTIONS

REETZ ROAD

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PLOT NAME: _____

REV. DATE: _____

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CROSS SECTIONS

REETZ ROAD

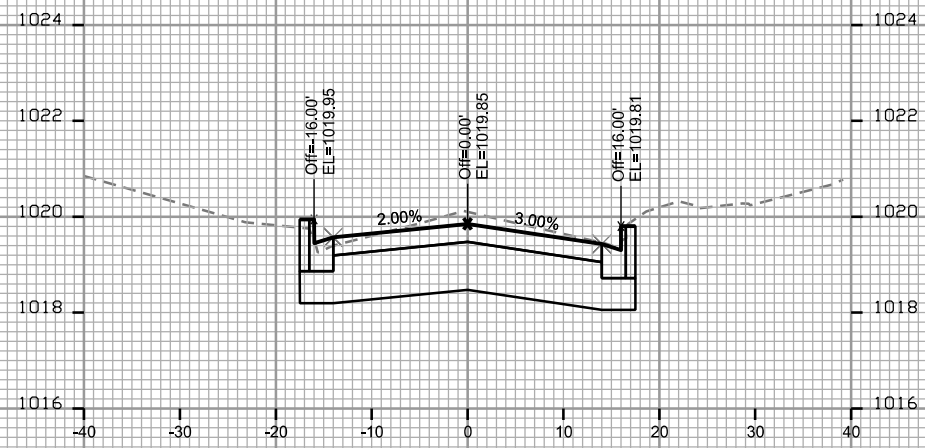
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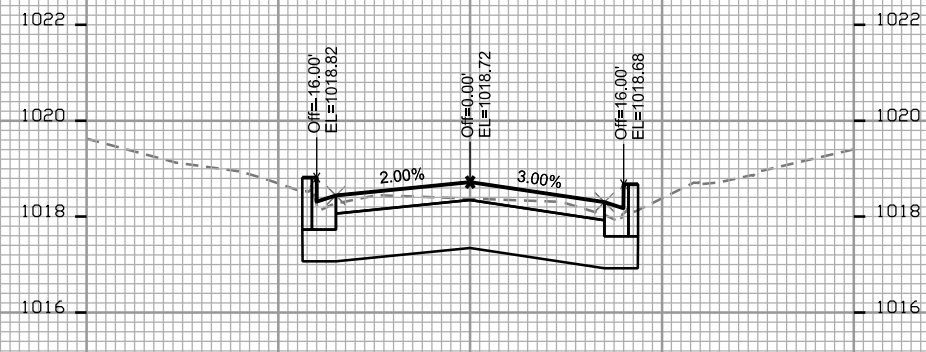
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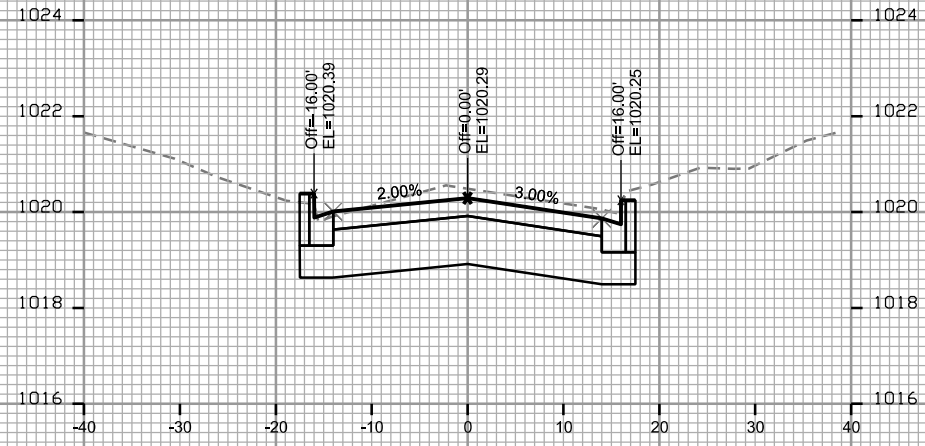
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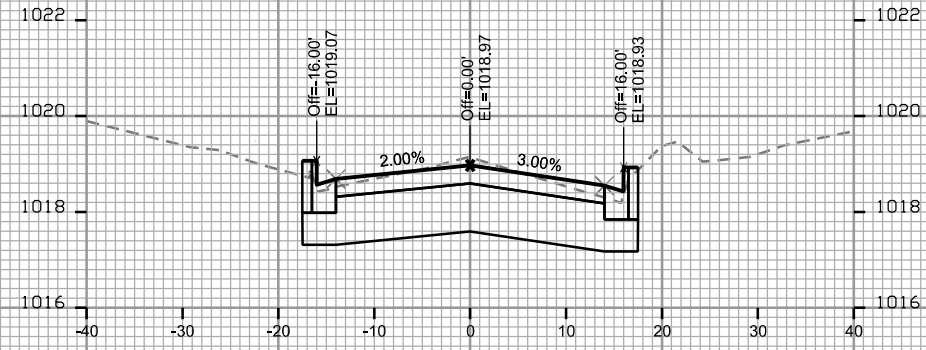
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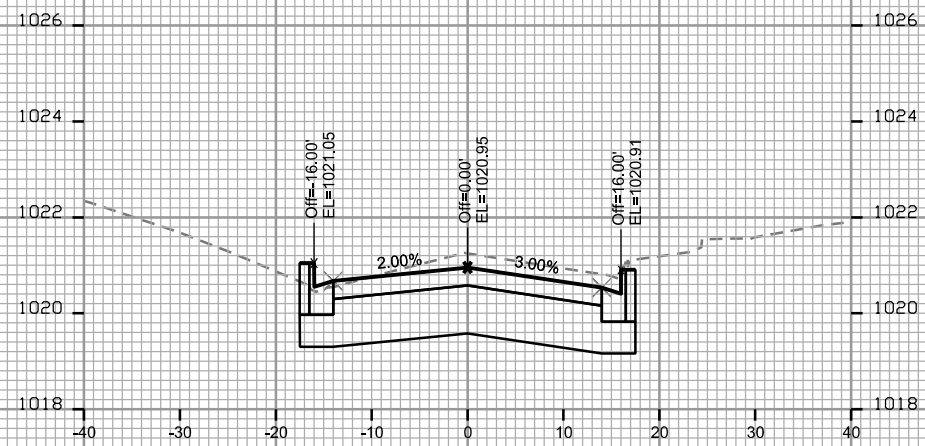
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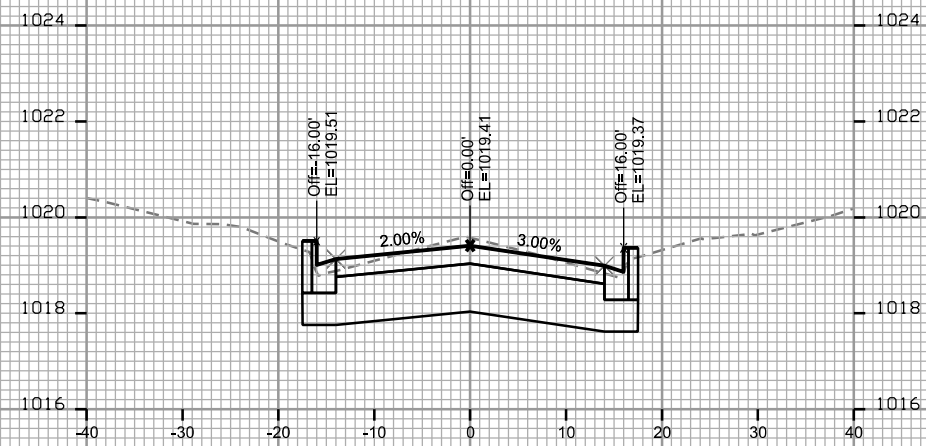
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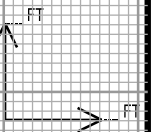
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STA. 17+75



STA. 18+50



CROSS SECTIONS

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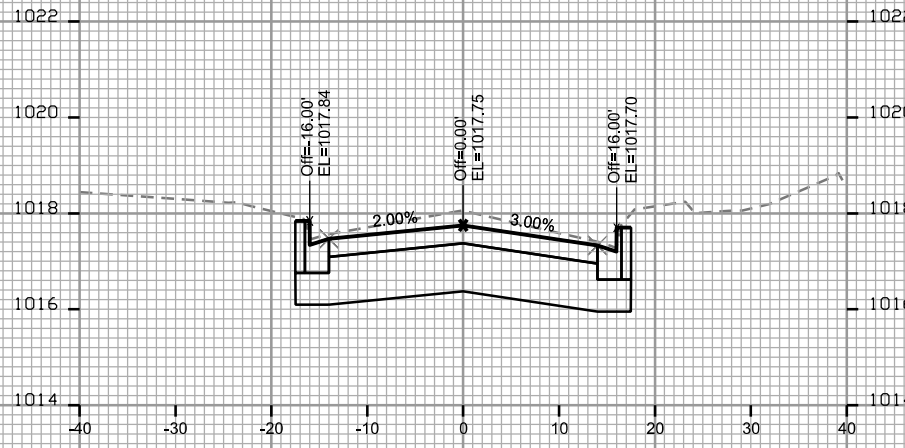
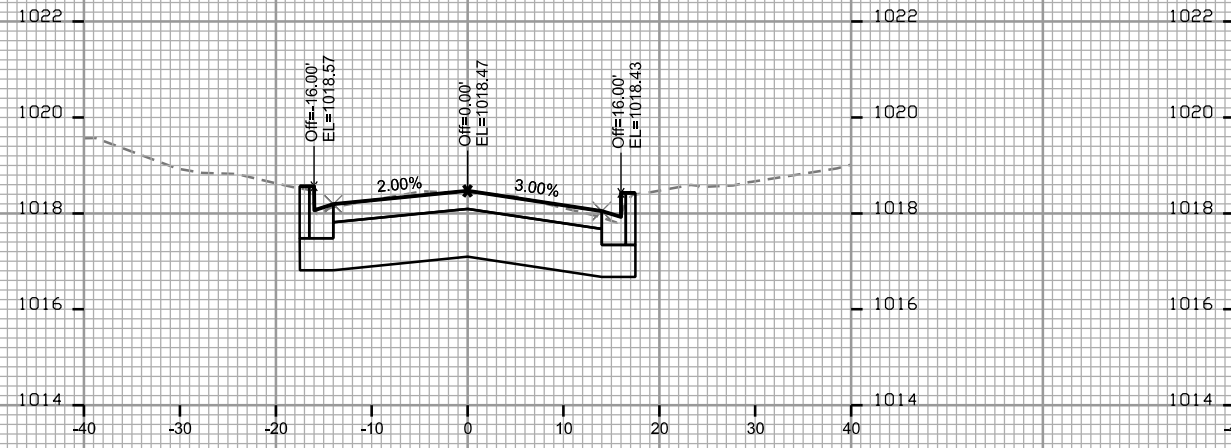
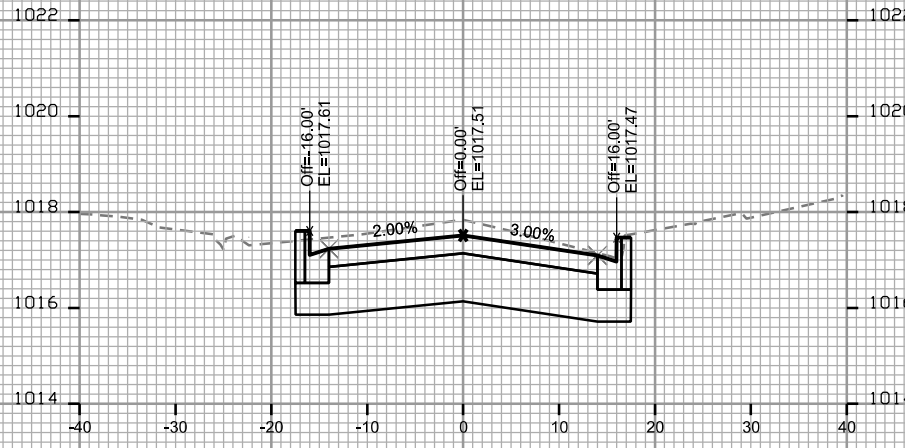
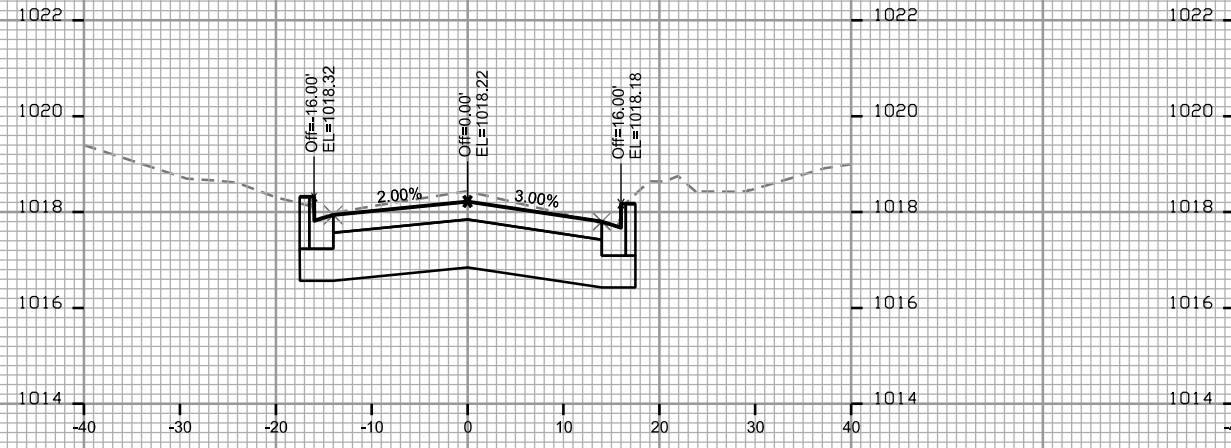
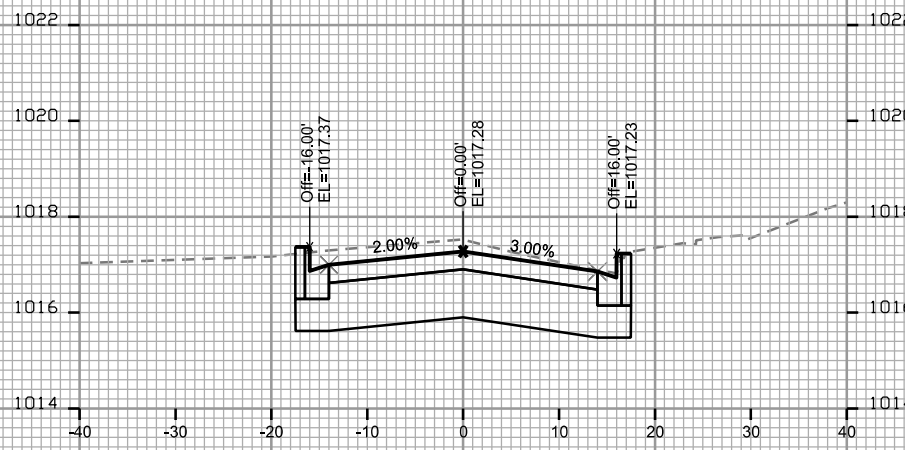
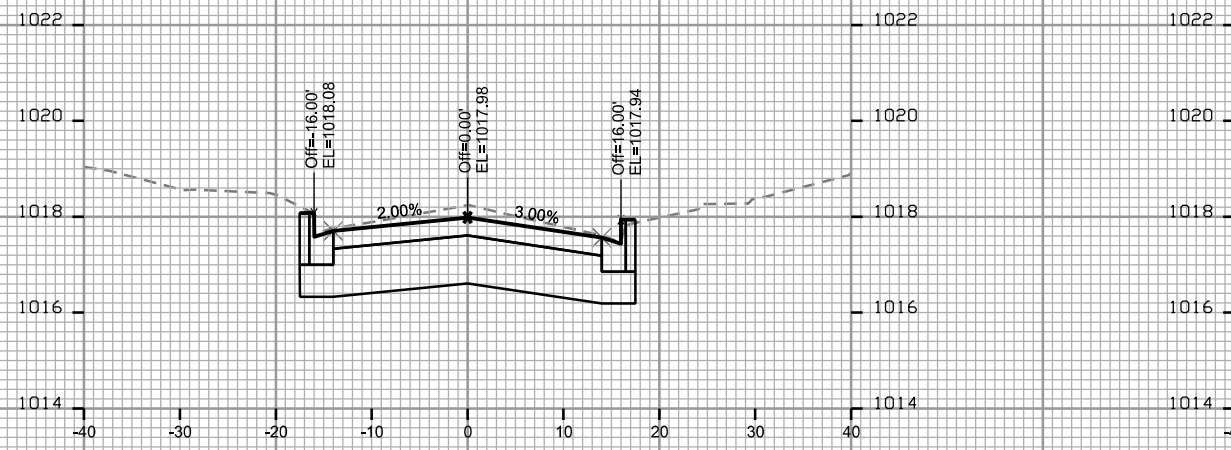
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

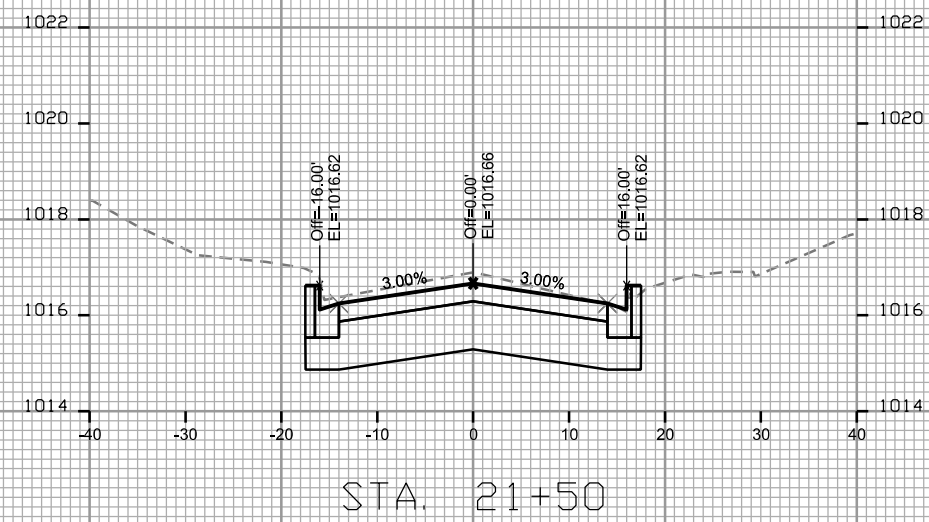
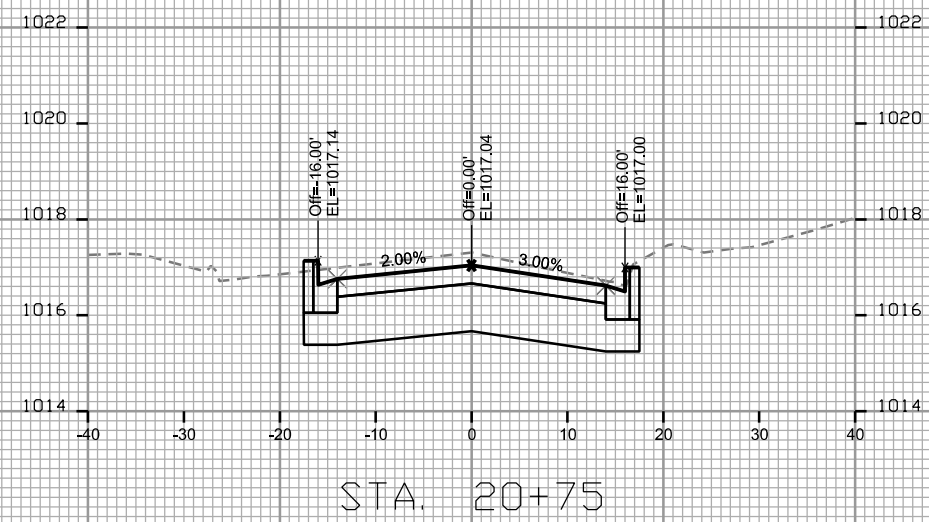
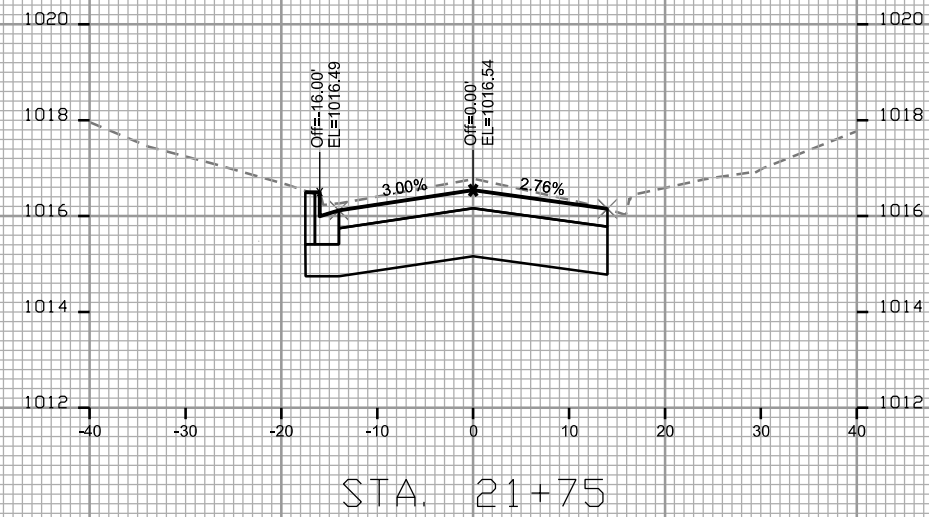
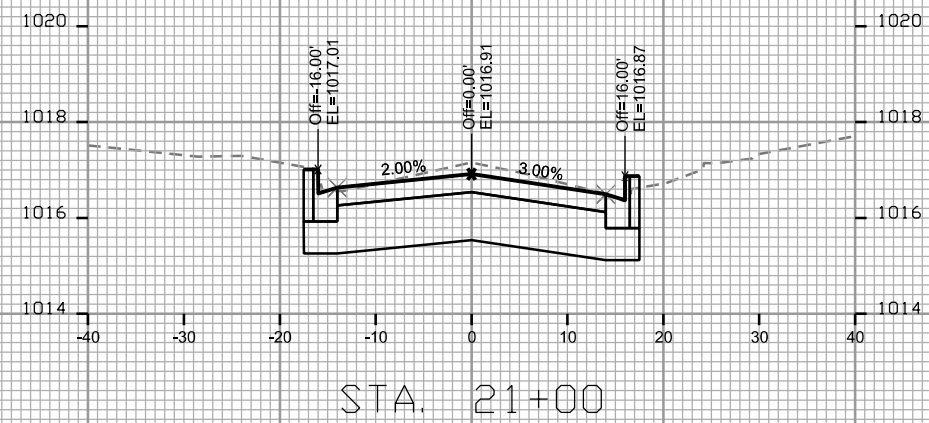
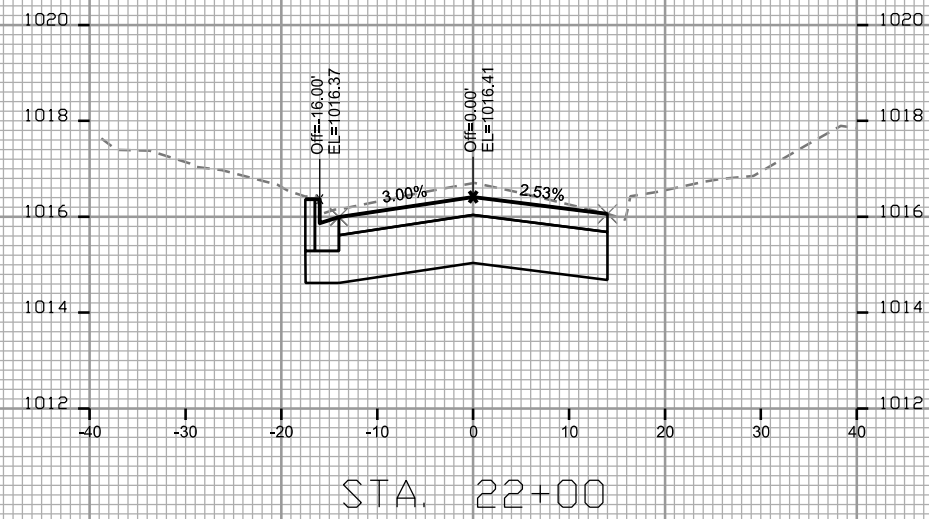
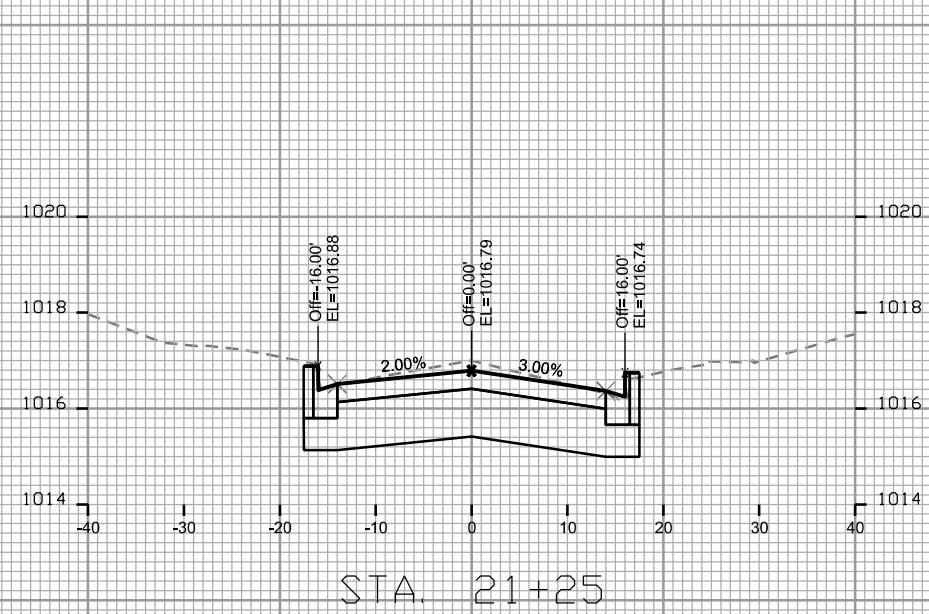
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

REETZ ROAD

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

REETZ ROAD

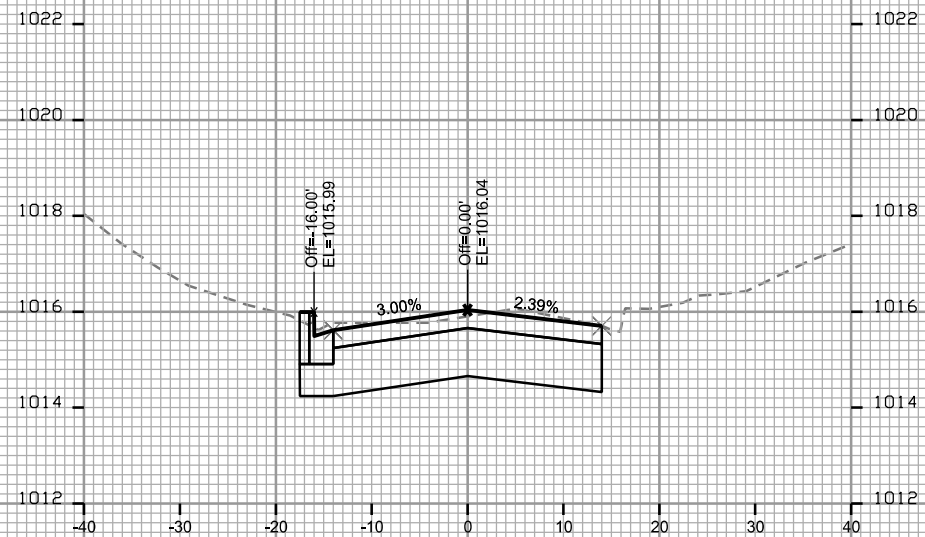
CITY OF MADISON

PLOT SCALE: _____

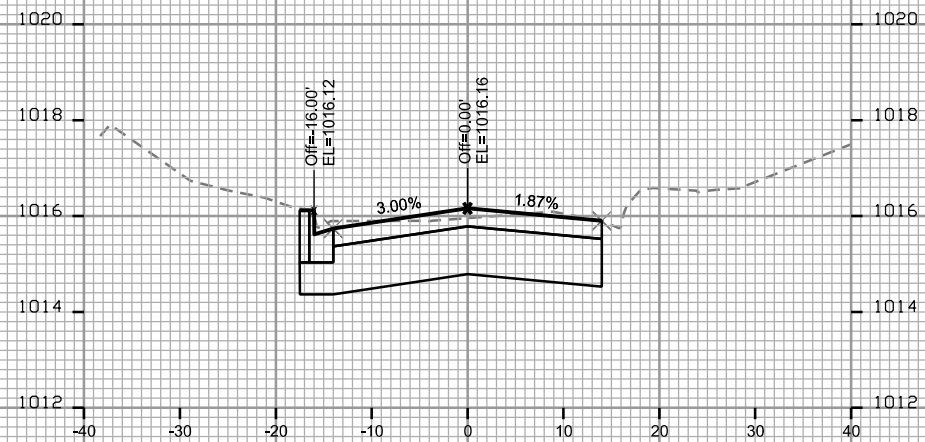
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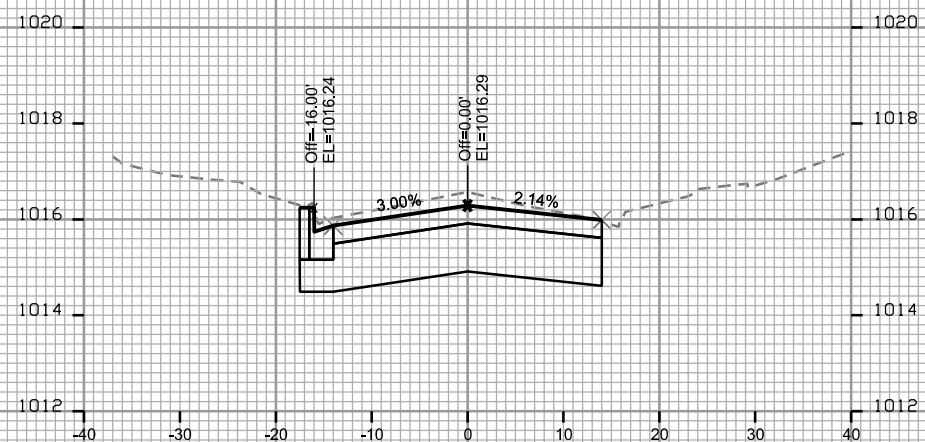
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



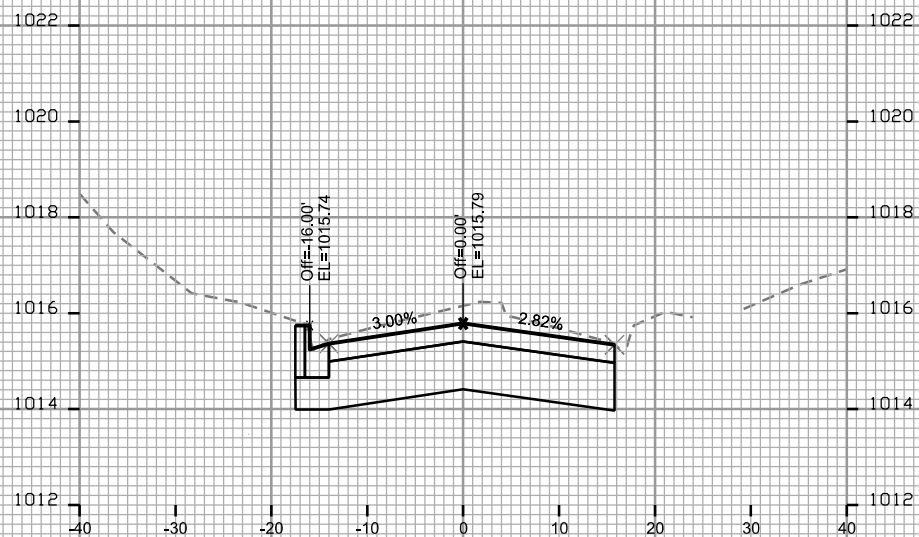
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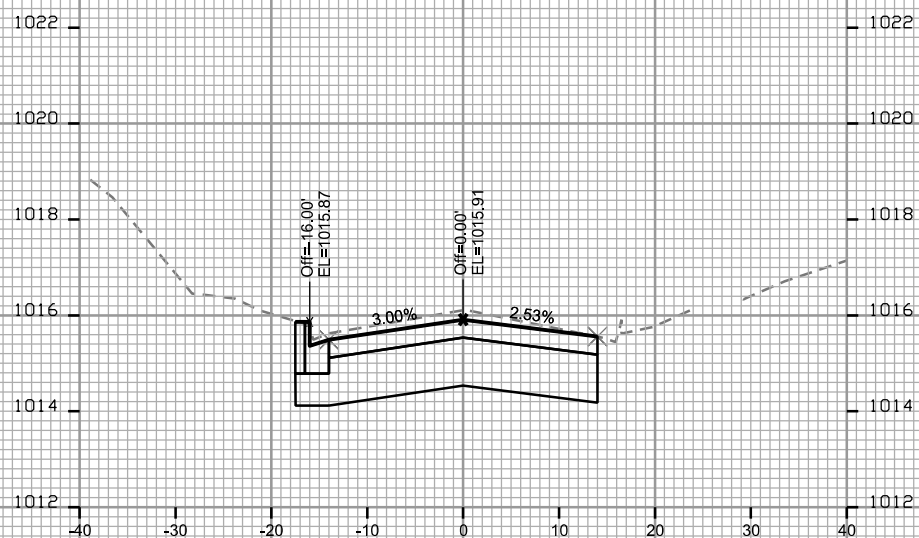
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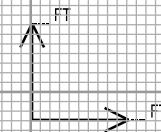
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STA. 23+25



STA. 23+00



CROSS SECTIONS

REETZ ROAD

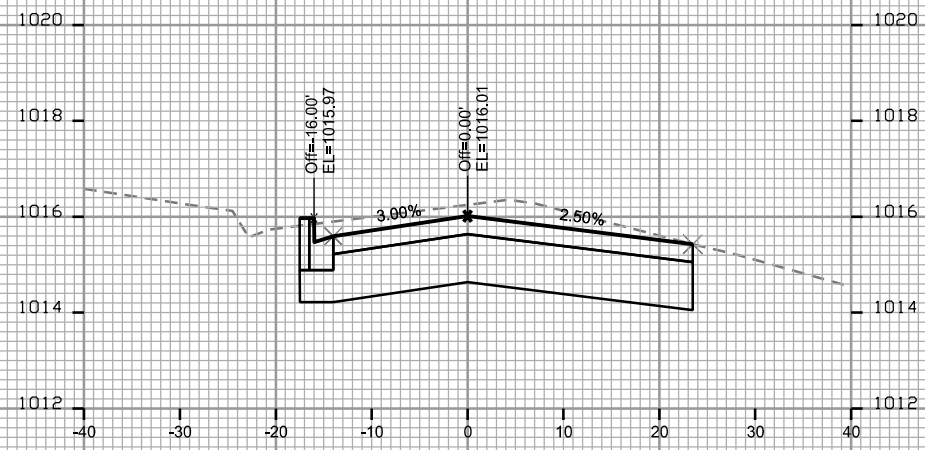
CITY OF MADISON

PLOT SCALE: _____

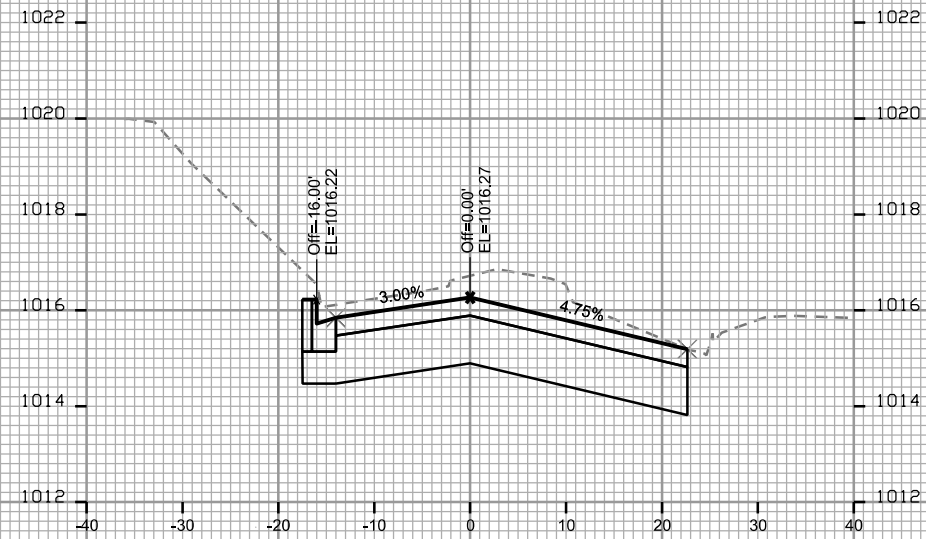
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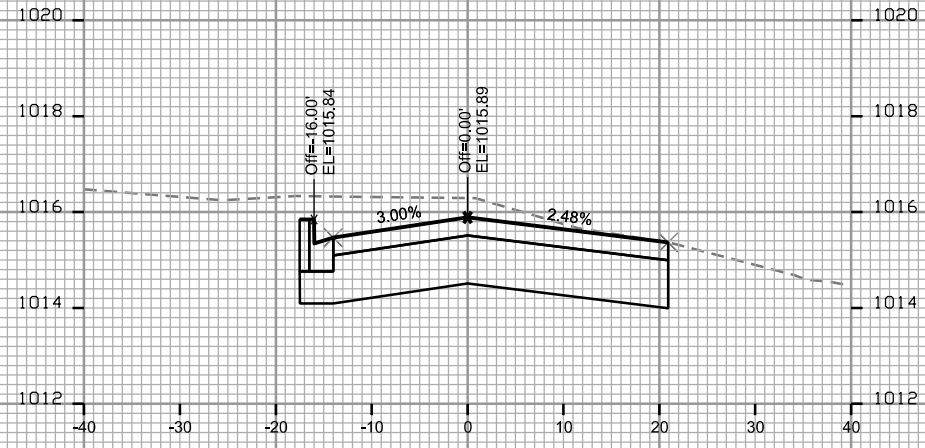
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



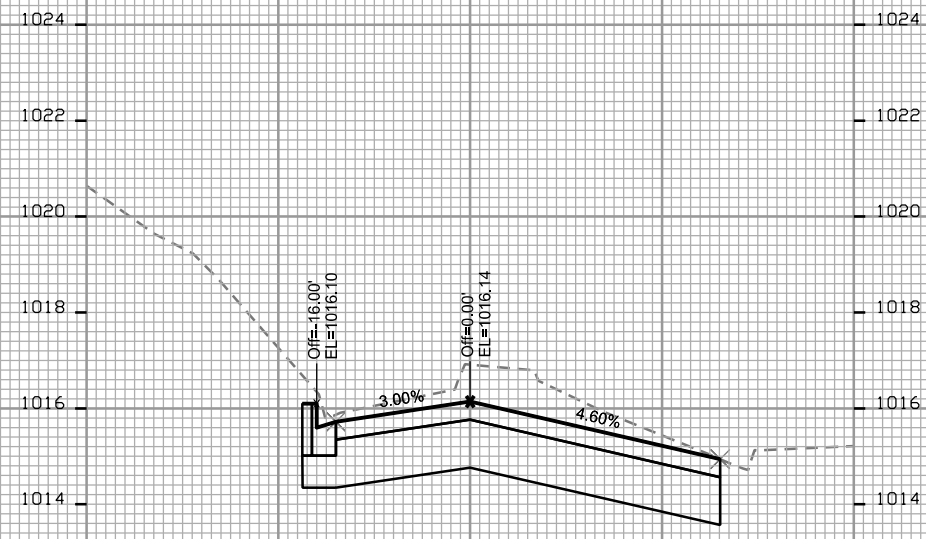
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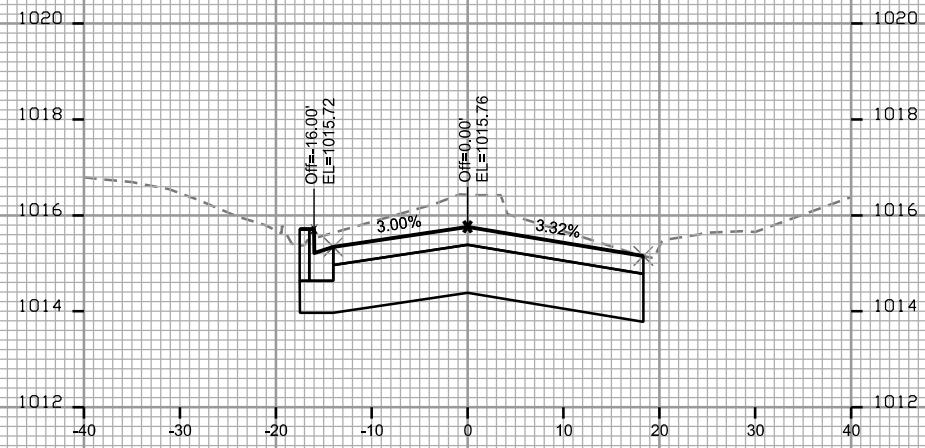
STA. 24+50



STA. 23+75



STA. 24+25



STA. 23+50



CROSS SECTIONS

REETZ ROAD

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

