

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

ELDERBERRY ROAD, PLEASANT VIEW ROAD & SAMUEL DRIVE ASSESSMENT DISTRICT-2012

400' West of Pleasant View to 130' East of Samuel,
Elderberry Rd. Intersection, Elderberry Rd to Wild Indigo Ln

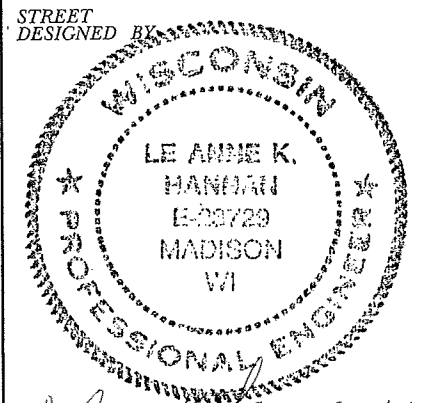
PROJECT NO. 53W0977
CONTRACT NO. 6782

STREET PROJECT APPROVED
NOV. 27, 2012
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

DESIGN APPROVED BY:

City Engineer Date

STREET DESIGNED BY



LeAnne K Hanner
12/6/12

CONVENTIONAL SIGNS

COMBUSTIBLE FLUIDS



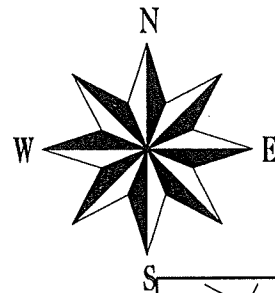
UNDERGROUND UTILITIES

NOTE: FIELD VERIFY UTILITIES

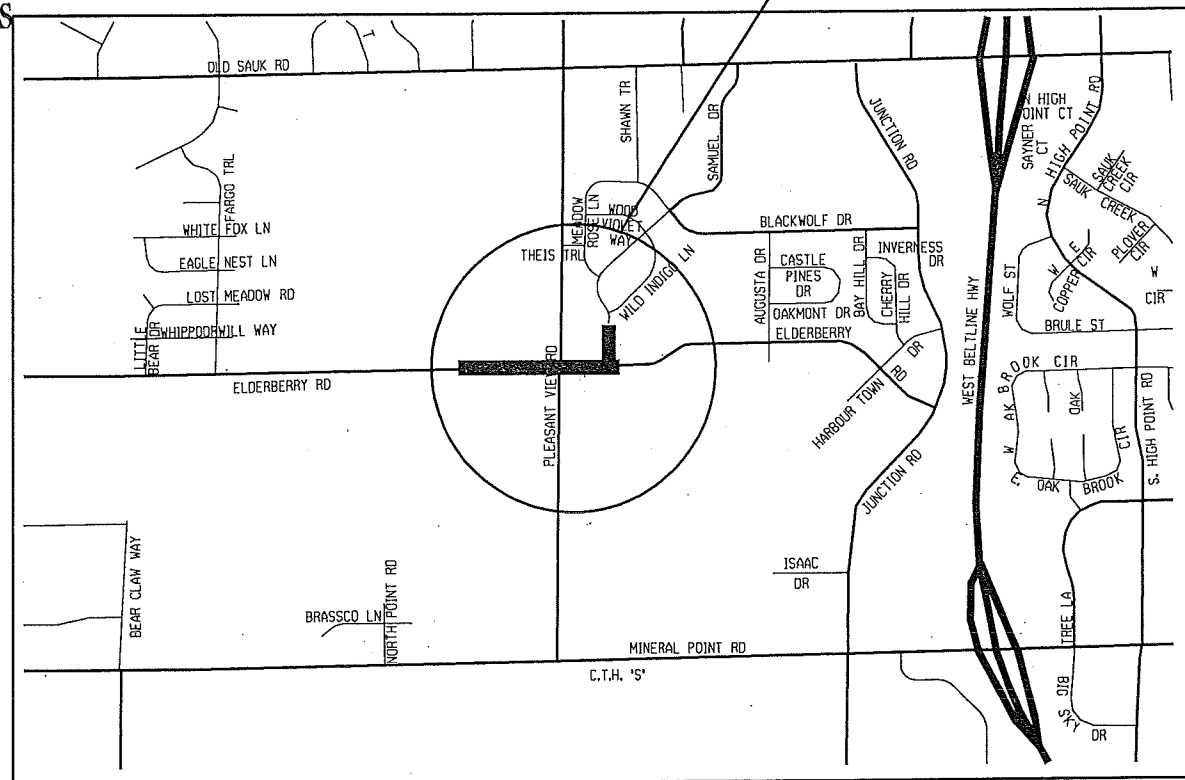
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
POWER POLE	□
RAILROAD	=====

INDEX OF SHEETS

SHEET NO. D1	TYPICAL SECTIONS
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SHEET NO. P4	PLAN/PROFILE-SAMUEL DR
SHEET NO. U1-U4	UTILITIES
SHEET NO. U5	STORM SEWER SCHEDULE
SHEET NO. U6	STORM SEWER SCHEDULE
SHEET NO. U6	SANITARY SCHEDULE
SHEET NO. W1-W4	WATER
SHEET NO. W5	WATER IMPACT PLAN
SHEET NO. W5	WATER ESTIMATE OF MATERIALS
SHEET NO. X1-X6	CROSS-SECTIONS



PROJECT LOCATION



EARTHWORK SUMMARY

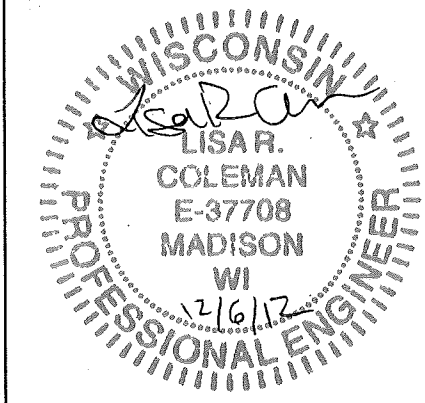
EXCAVATION CUT	3972 CY
(PAID AS PLAN QUANTITY)	
UNDERCUT (EST.)	972 CY
TOTAL	4948 CY

NOTES:

THE CROSS SLOPE OF SIDEWALK AND BARRIER FREE WALK RAMP SHALL NOT EXCEED 2%. THE LONGITUDINAL GRADE OF BARRIER FREE WALK RAMP SHALL NOT EXCEED 8.33%.

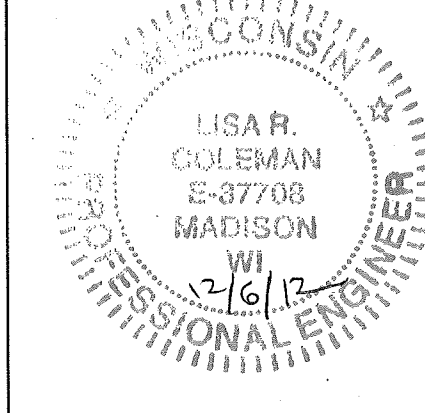
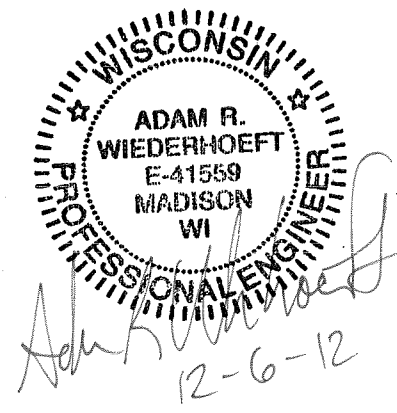
ELECTRIC DESIGNED BY:

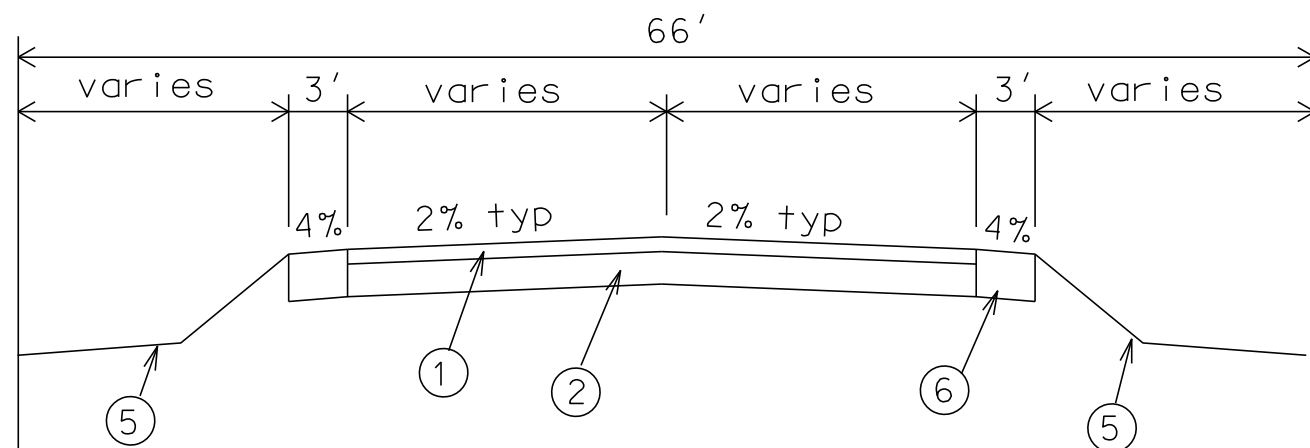
STORM SEWER DESIGNED BY:



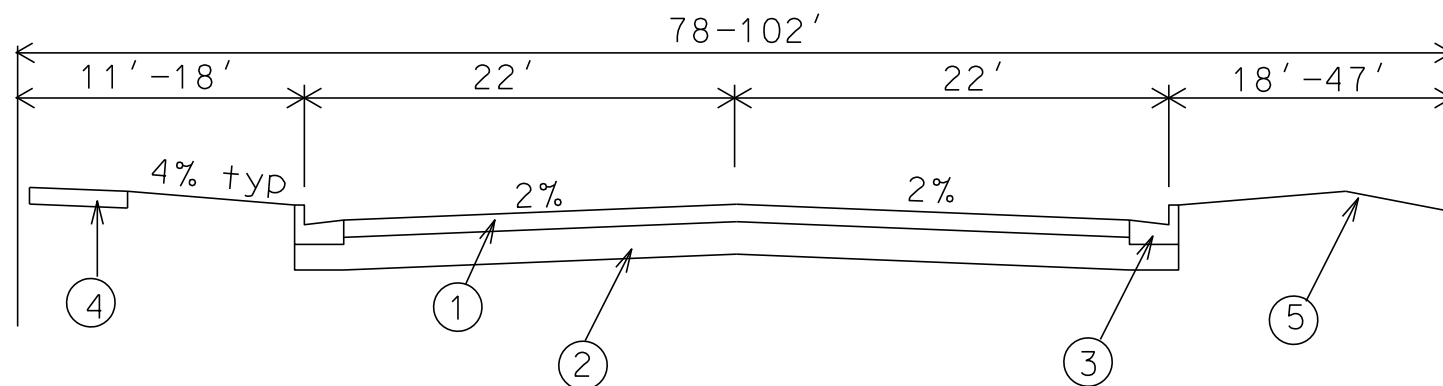
SANITARY SEWER DESIGNED BY:

WATER DESIGNED BY:

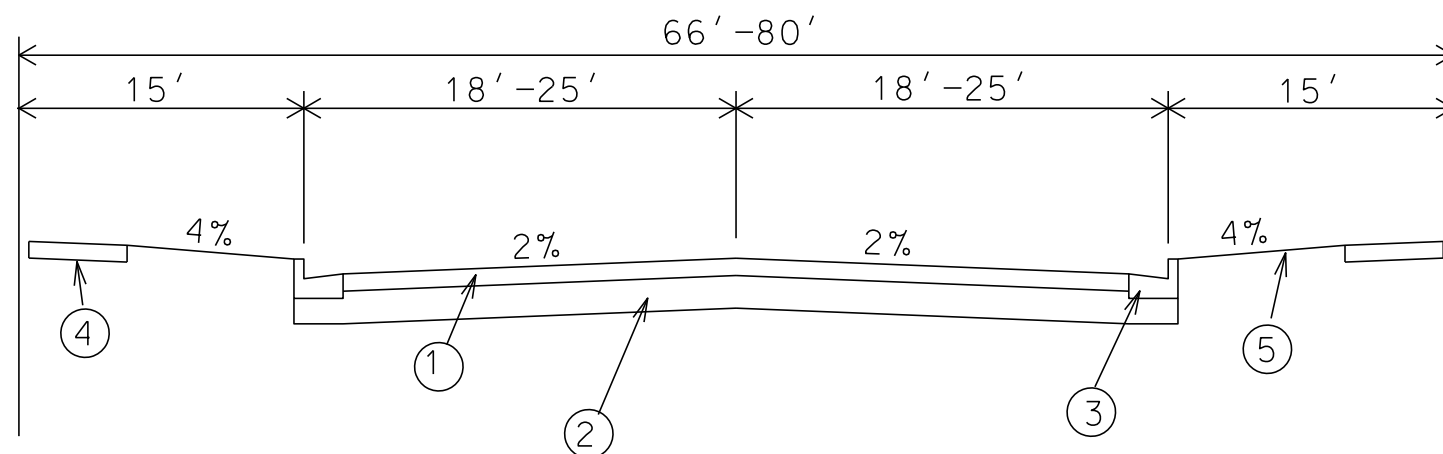




ELDERBERRY ROAD
Sta. 47+57.49 - Sta. 50+97.73



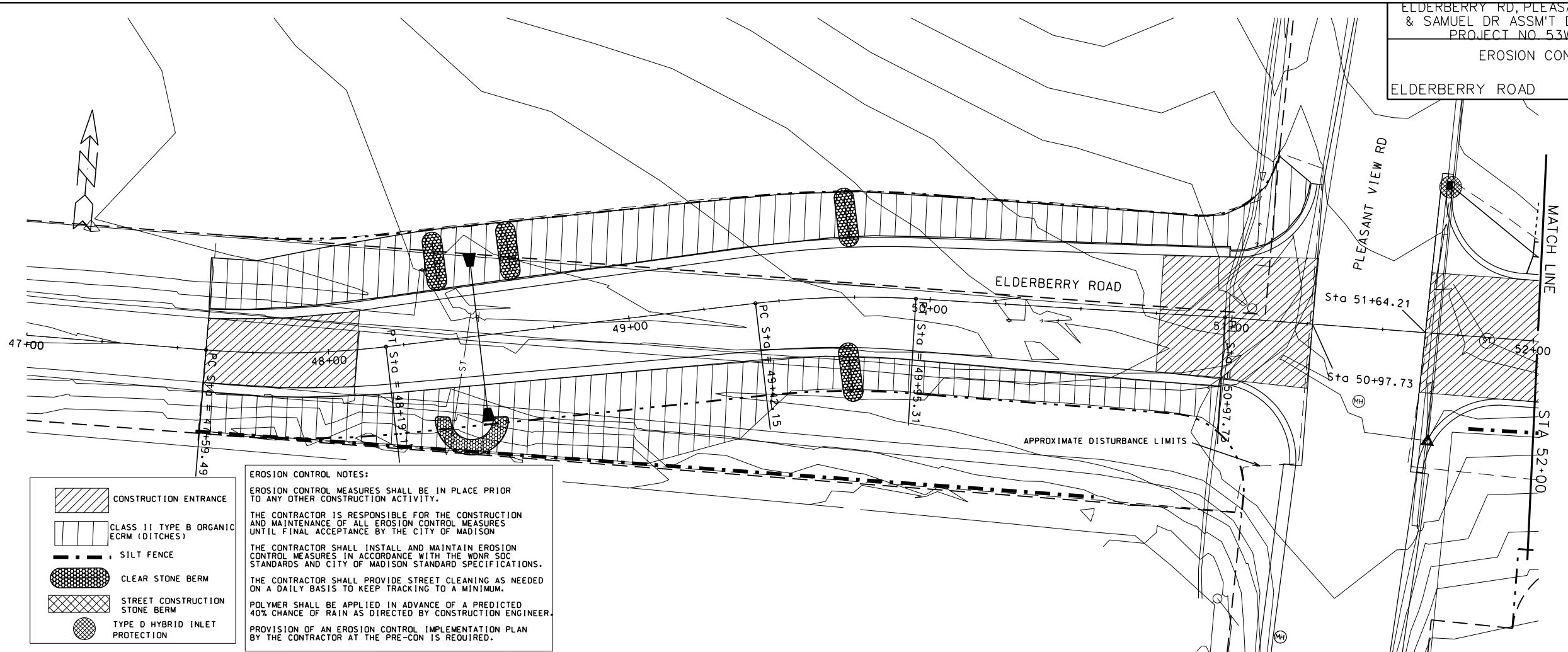
ELDERBERRY ROAD
Sta. 51+64.21 - Sta 57+53.95









SAMUEL DRIVE

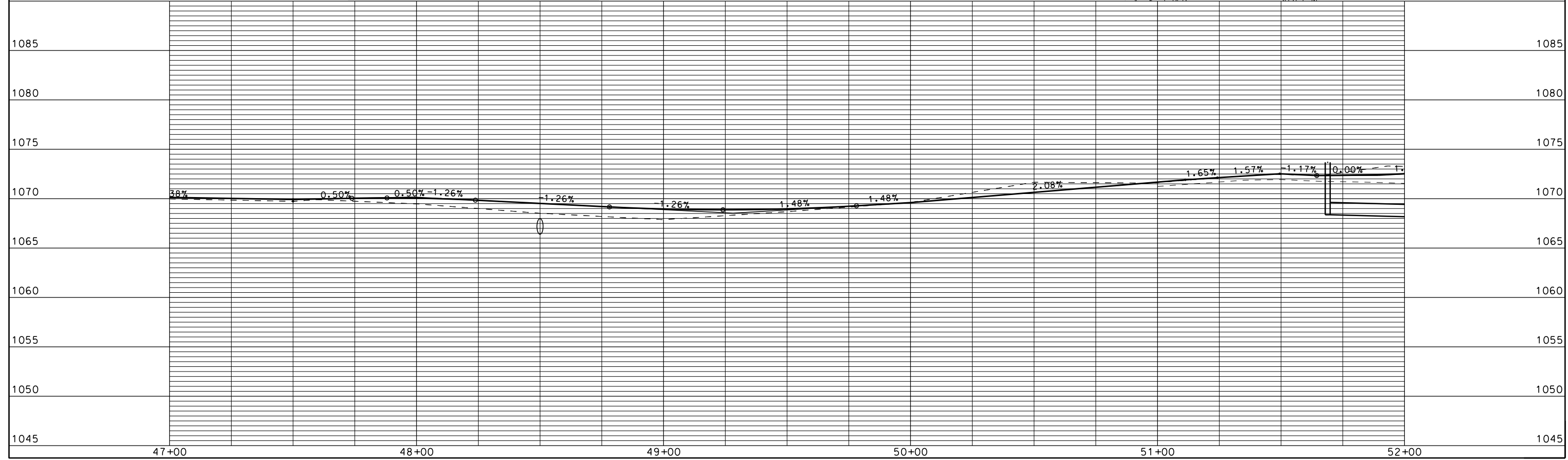
- ① 5 1/4" HMA PAV'T TYPE E-3
- ② 4" C.A.B.C. GRAD. 2
6" C.A.B.C. GRAD. 1
- ③ TYPE "A" CONCRETE CURB & GUTTER
- ④ 5" CONCRETE SIDEWALK
- ⑤ TOPSOIL, SEED, MULCH & EROSION MATTING
- ⑥ C.A.B.C. SHOULDER

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



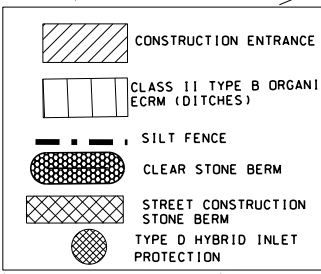
-  CONSTRUCTION ENTRANCE
-  CLASS II TYPE B ORGANIC ECRM (DITCHES)
-  SILT FENCE
-  CLEAR STONE BERM
-  STREET CONSTRUCTION STONE BERM
-  TYPE D HYBRID INLET PROTECTION

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 WDR 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.
 POLYMER SHALL BE APPLIED IN ADVANCE OF A PREDICTED 40% CHANCE OF RAIN AS DIRECTED BY CONSTRUCTION ENGINEER.
 PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

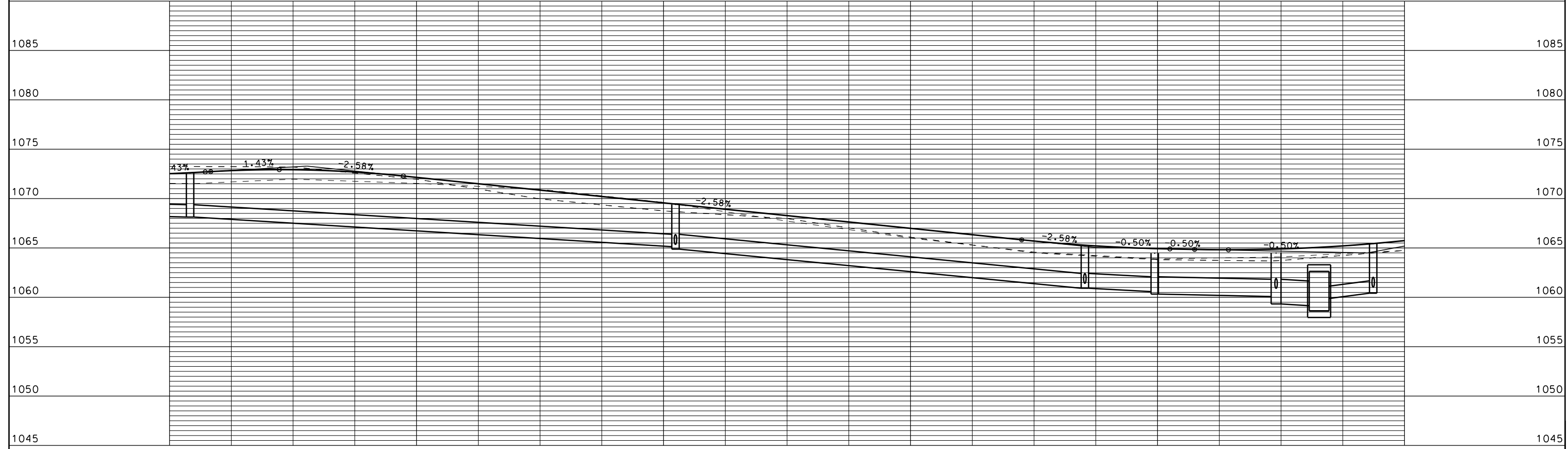
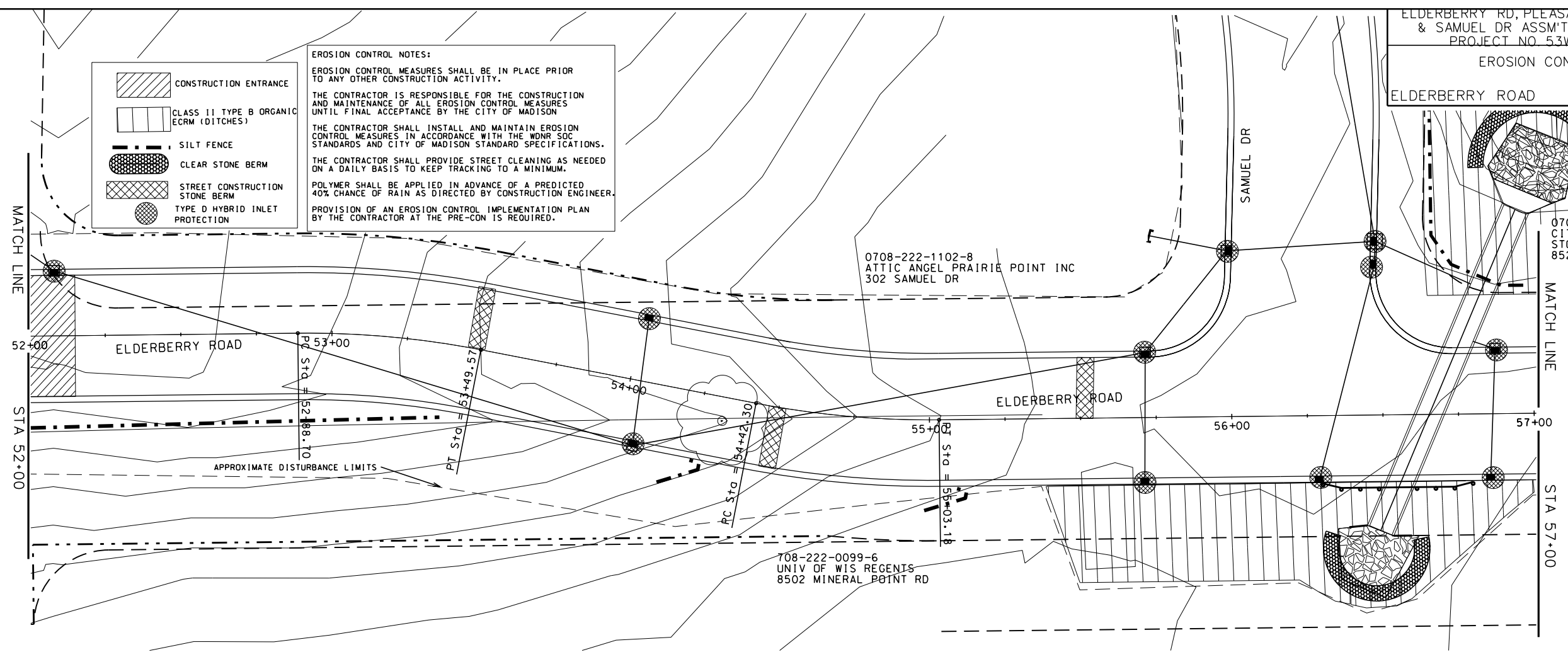


PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

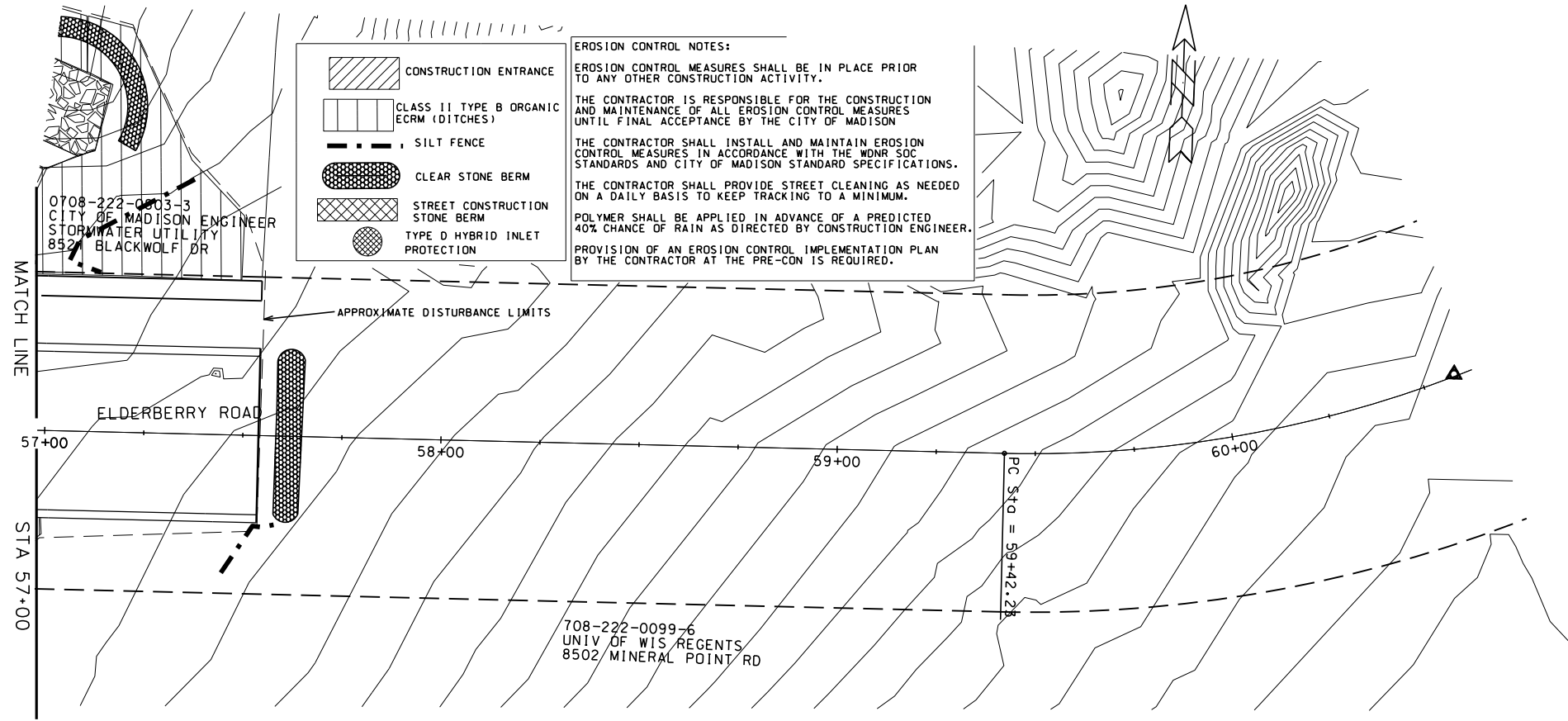


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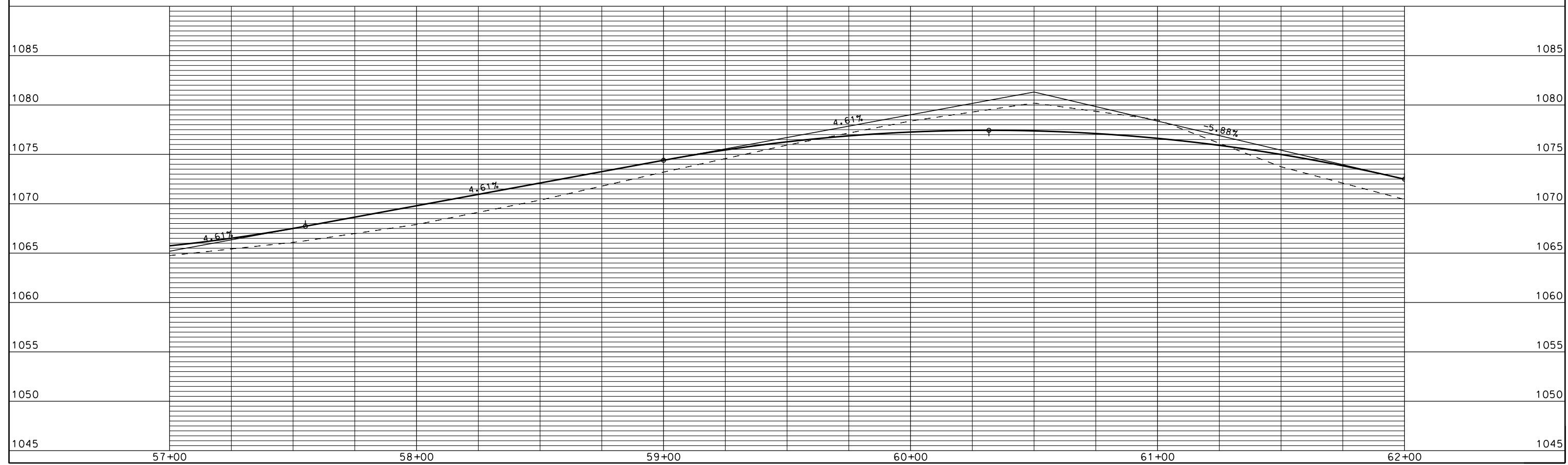
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





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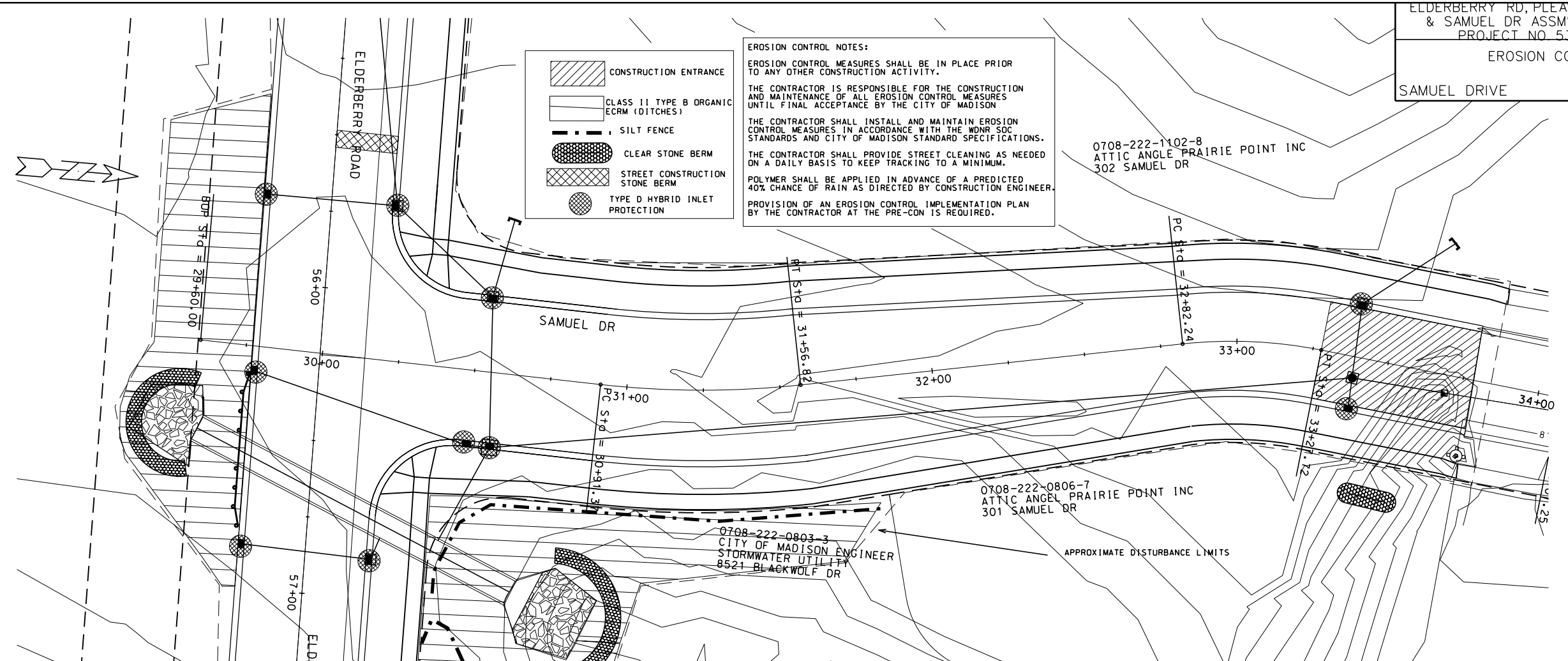
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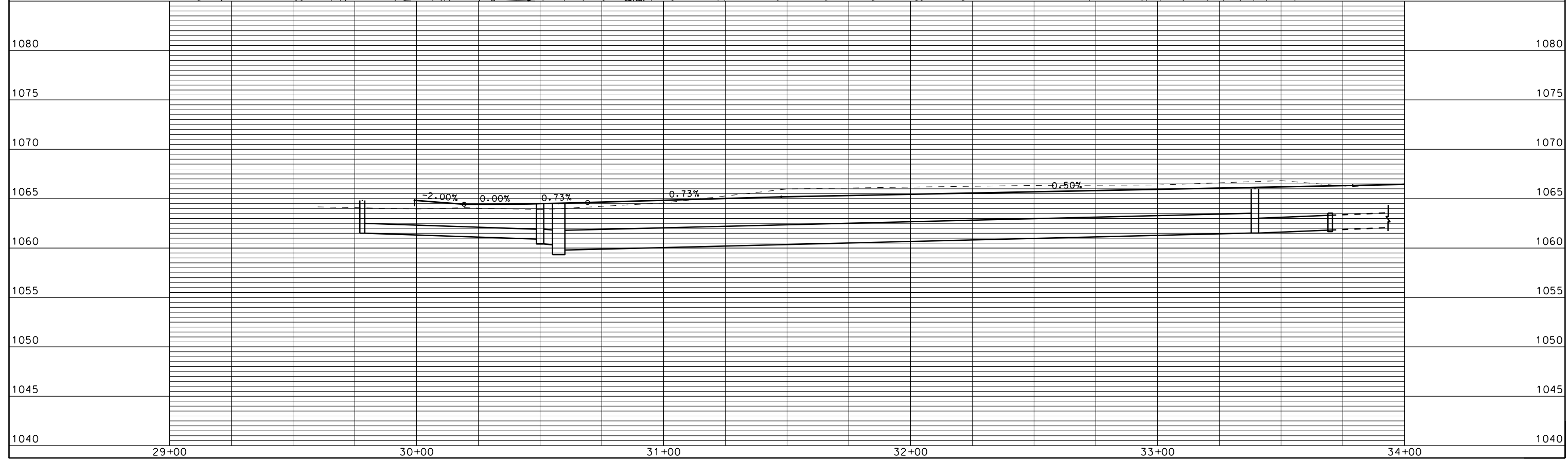


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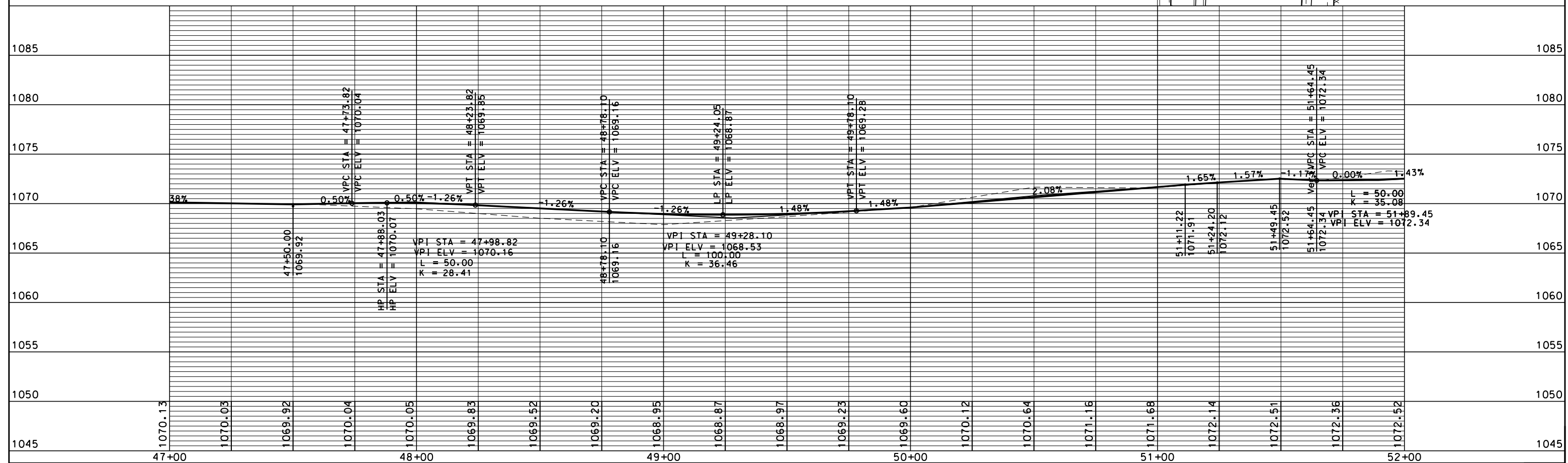
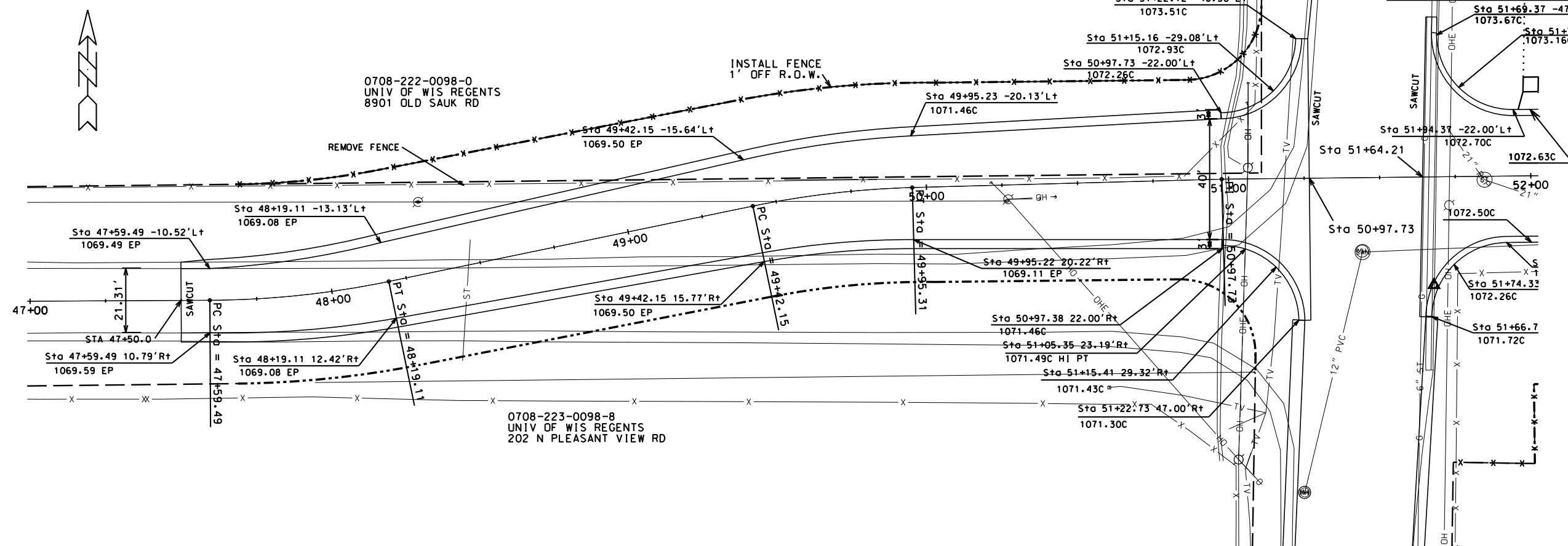
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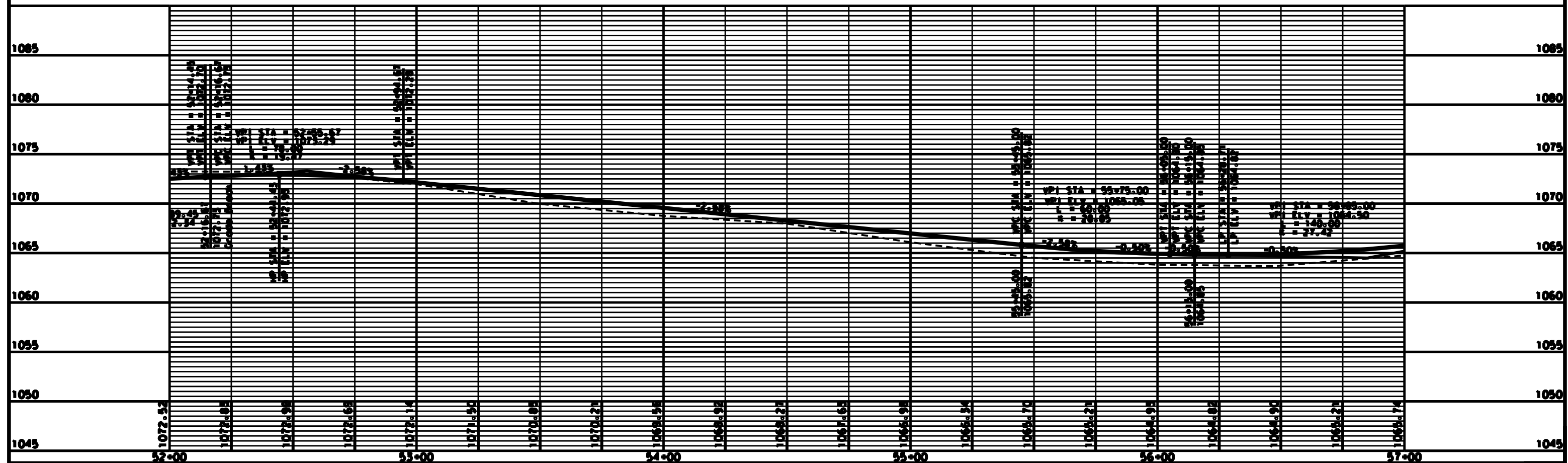
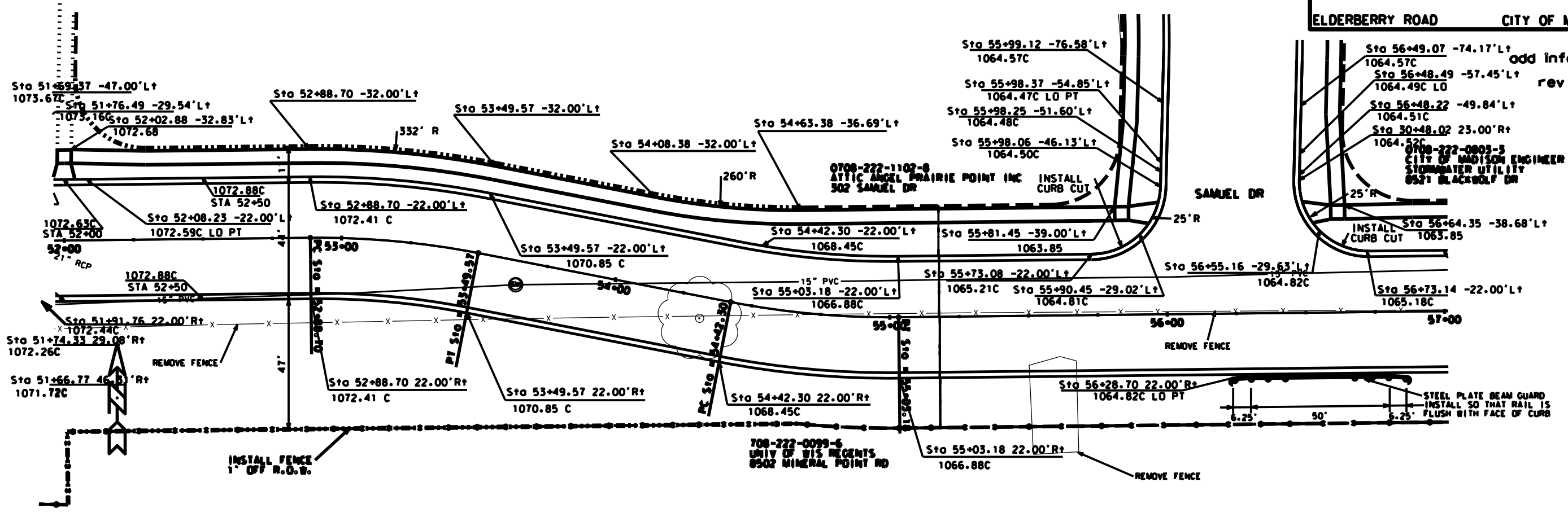


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ORIGINAL: CITY OF MADISON, STREETS DIVISION

add info 4/3/13
rev 5/14/13

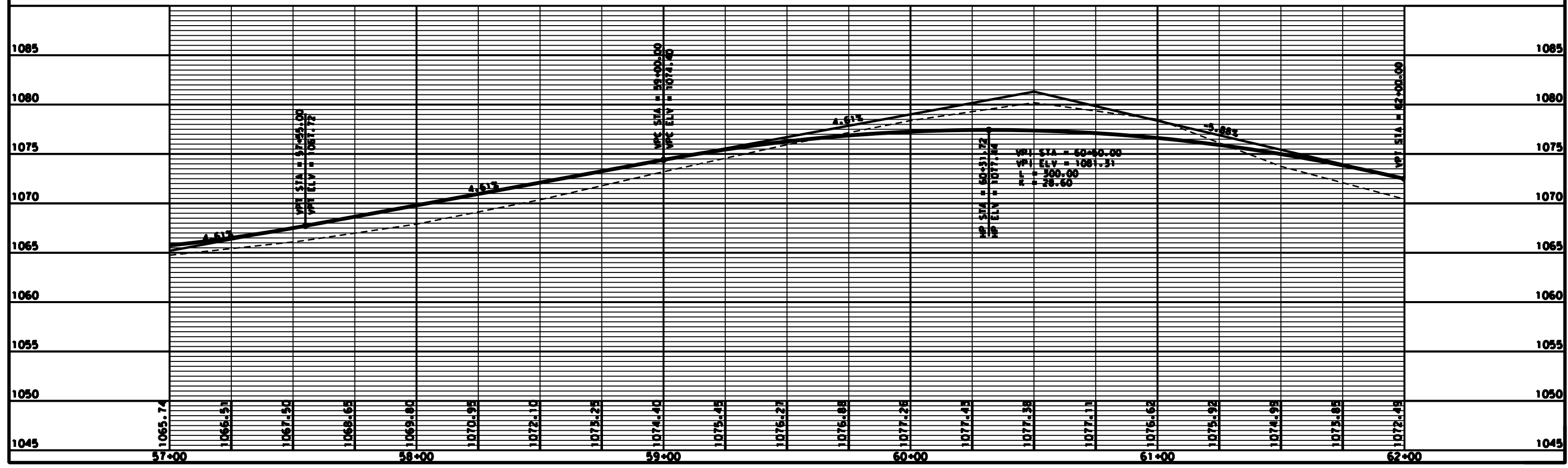
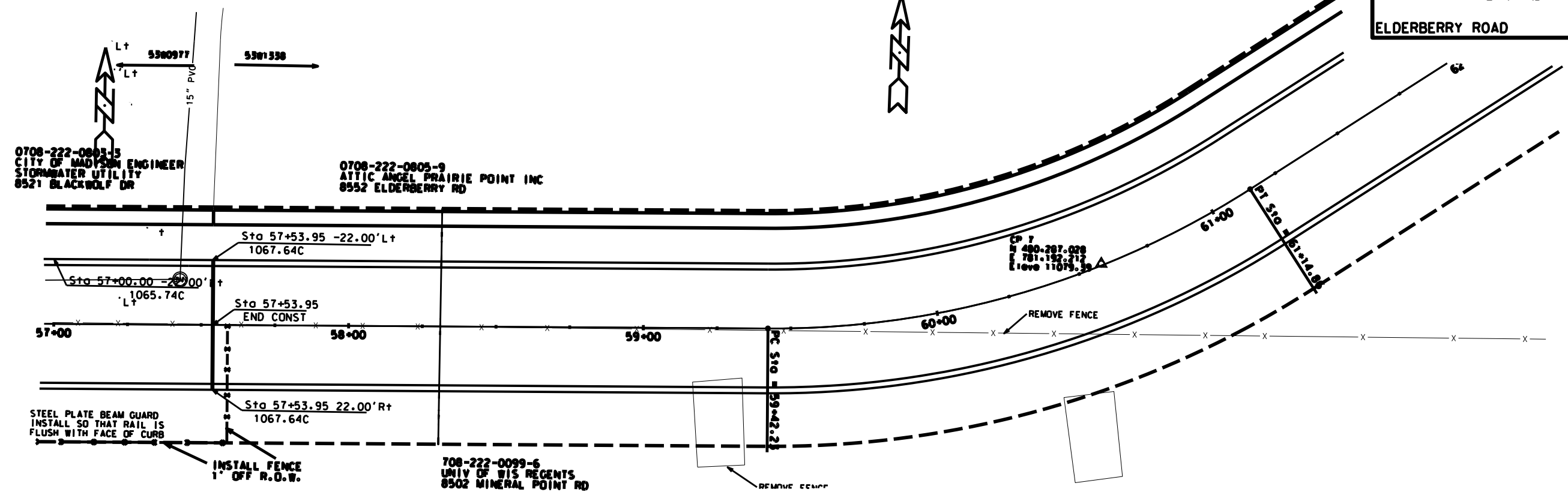
0700-222-0803-3
CITY OF MADISON ENGINEER
STORMWATER UTILITY
6521 BLACKWOLF DR



ORIGINALS: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____

add info 4/3/13
rev 5/14/13



PLOT SCALE: _____

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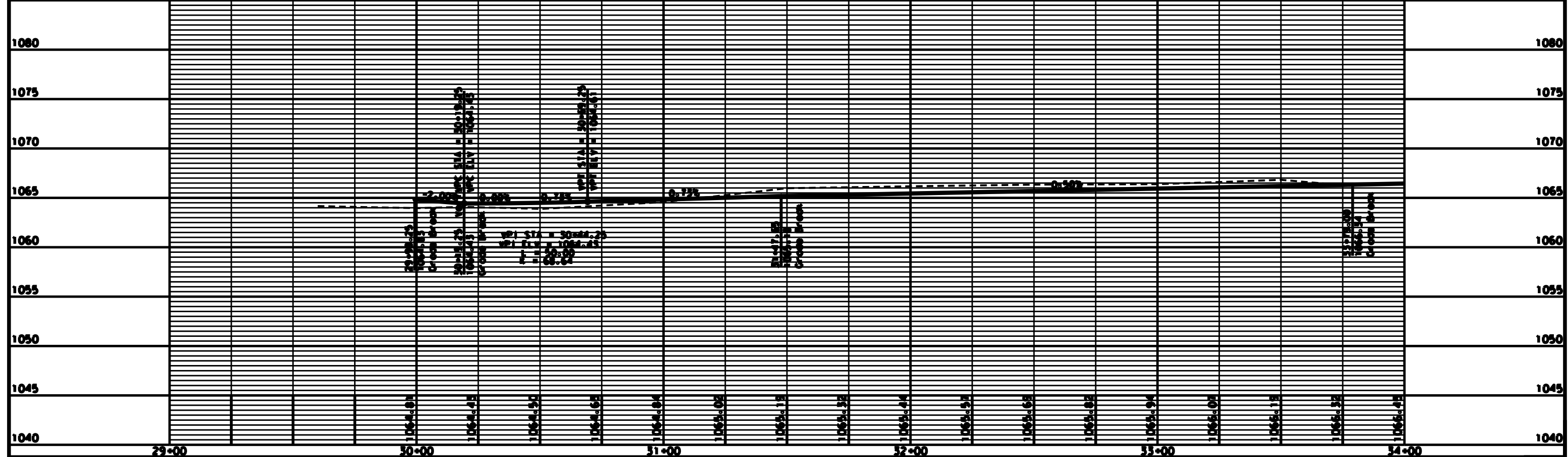
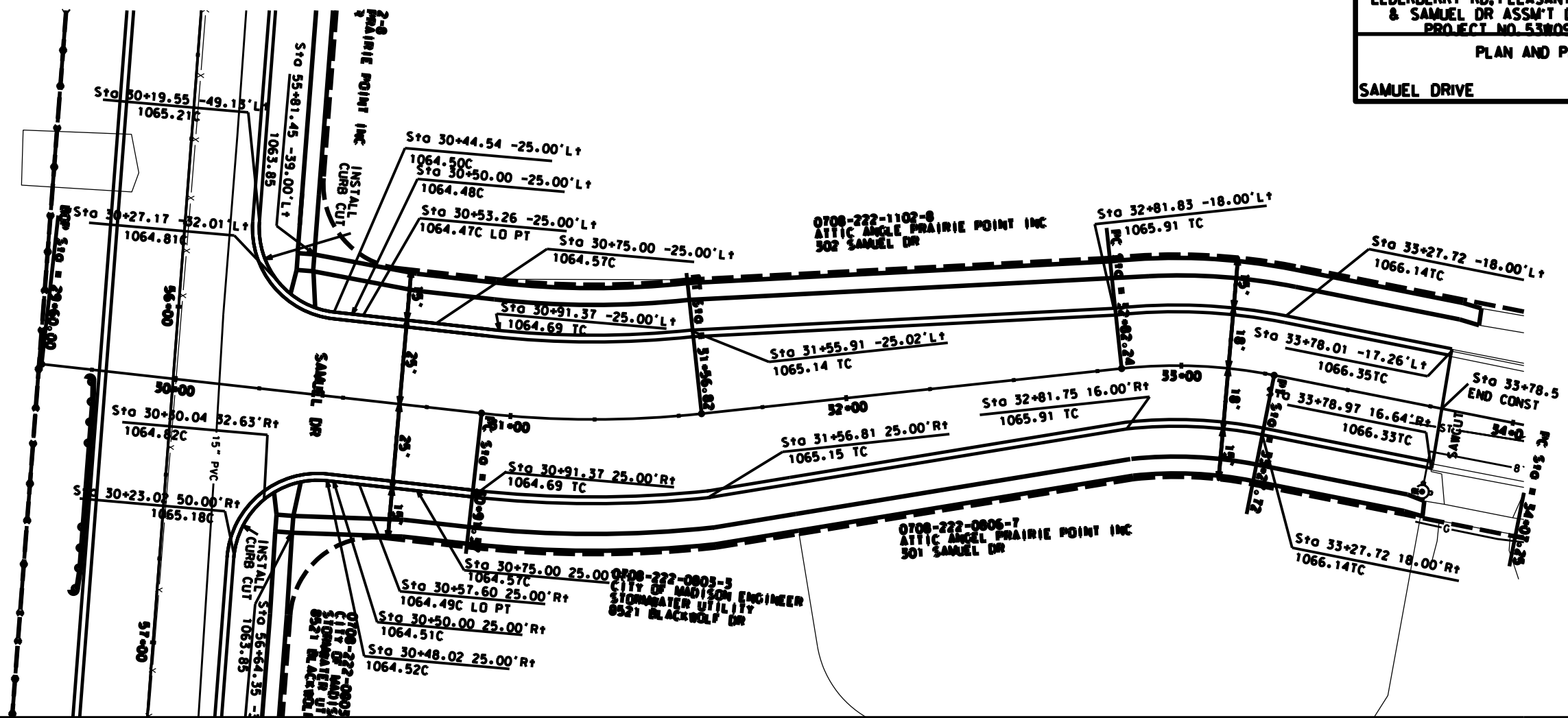
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

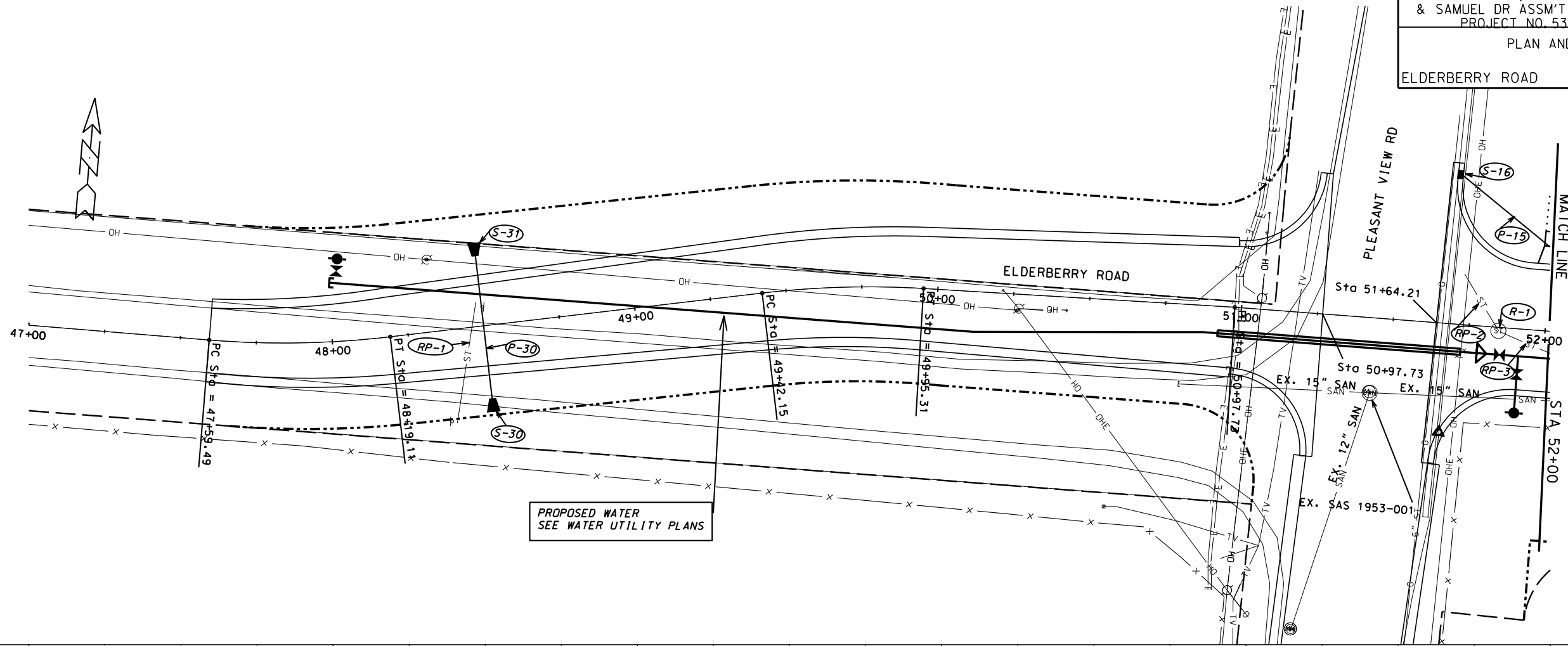
SAMUEL DRIVE CITY OF MADISON

add info 4/3/13
rev 5/14/13

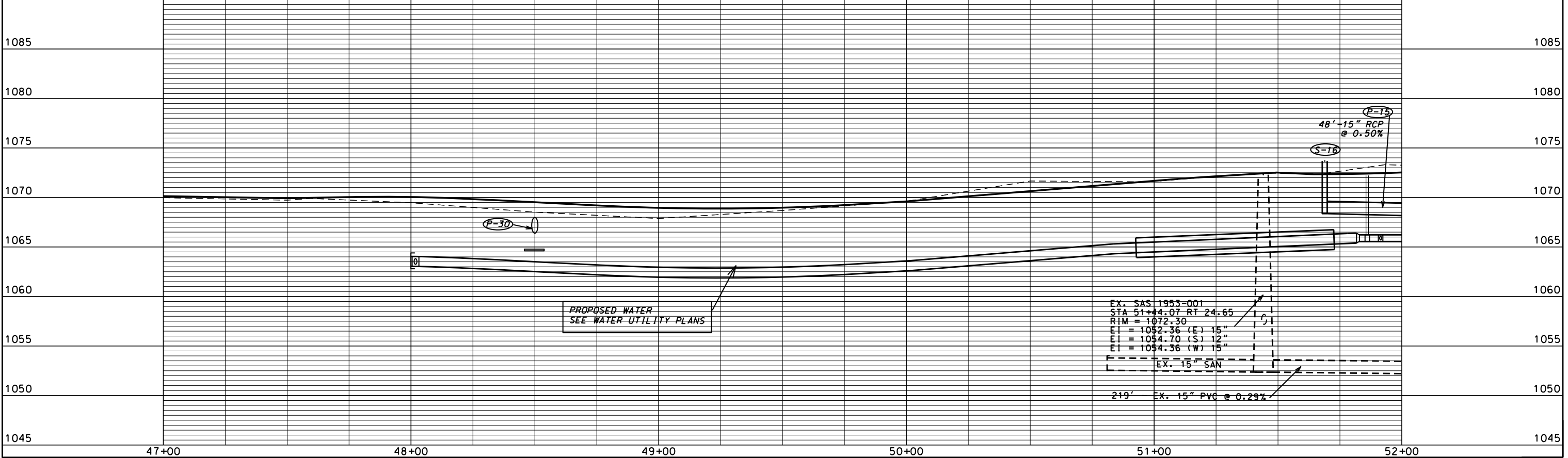


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____



PROPOSED WATER
 SEE WATER UTILITY PLANS



PROPOSED WATER
 SEE WATER UTILITY PLANS

EX. SAS 1953-001
 STA 51+44.07 RT 24.65
 RIM = 1072.30
 EI = 1052.36 (E) 15"
 EI = 1054.70 (S) 12"
 EI = 1054.36 (W) 15"
 EX. 15" SAN
 219' EX. 15" PVC @ 0.29%

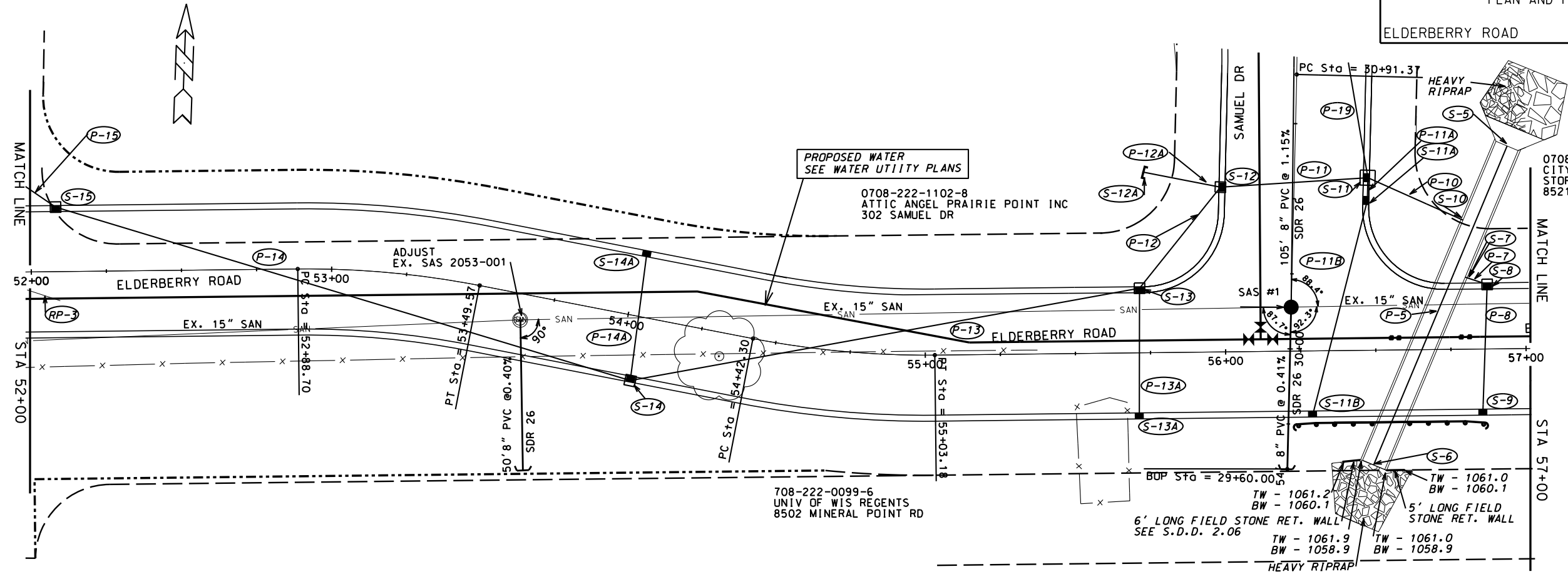
48'-15" RCP
 @ 0.50%

PLOT SCALE: _____

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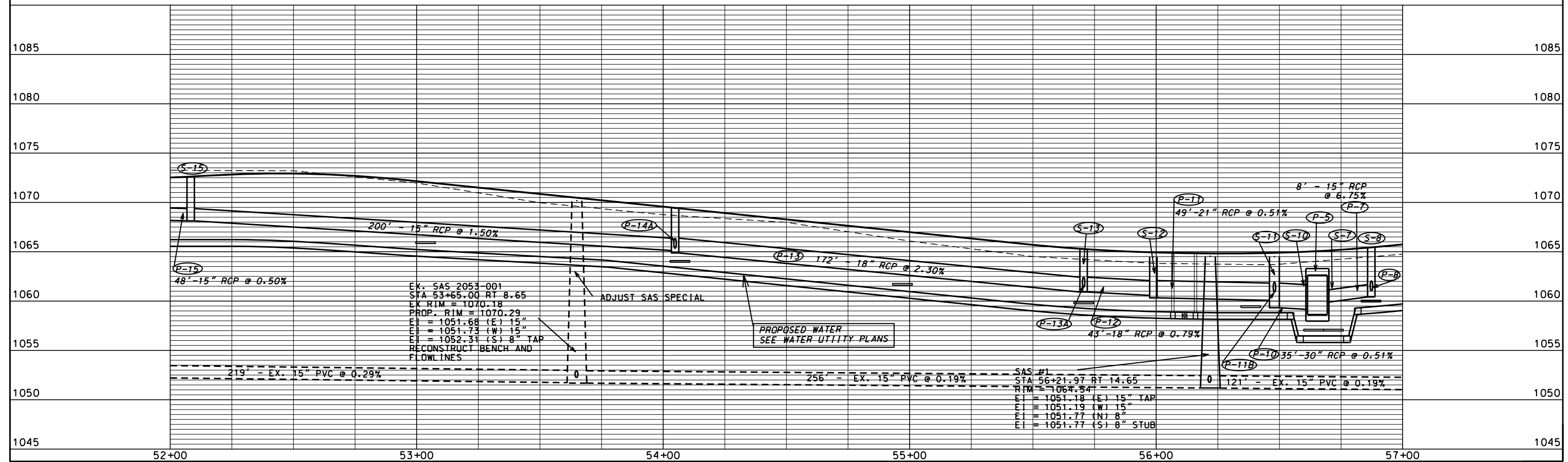
ORIGINATOR: CITY OF MADISON, STREET'S DIVISION



0708-222-0803-3
 CITY OF MADISON ENGINEER
 STORMWATER UTILITY
 8521 BLACKWOLF DR

708-222-0099-6
 UNIV OF WIS REGENTS
 8502 MINERAL POINT RD

6' LONG FIELD STONE RET. WALL
 SEE S.D.D. 2.06
 TW - 1061.9
 BW - 1058.9
 TW - 1061.0
 BW - 1060.1
 TW - 1061.0
 BW - 1058.9

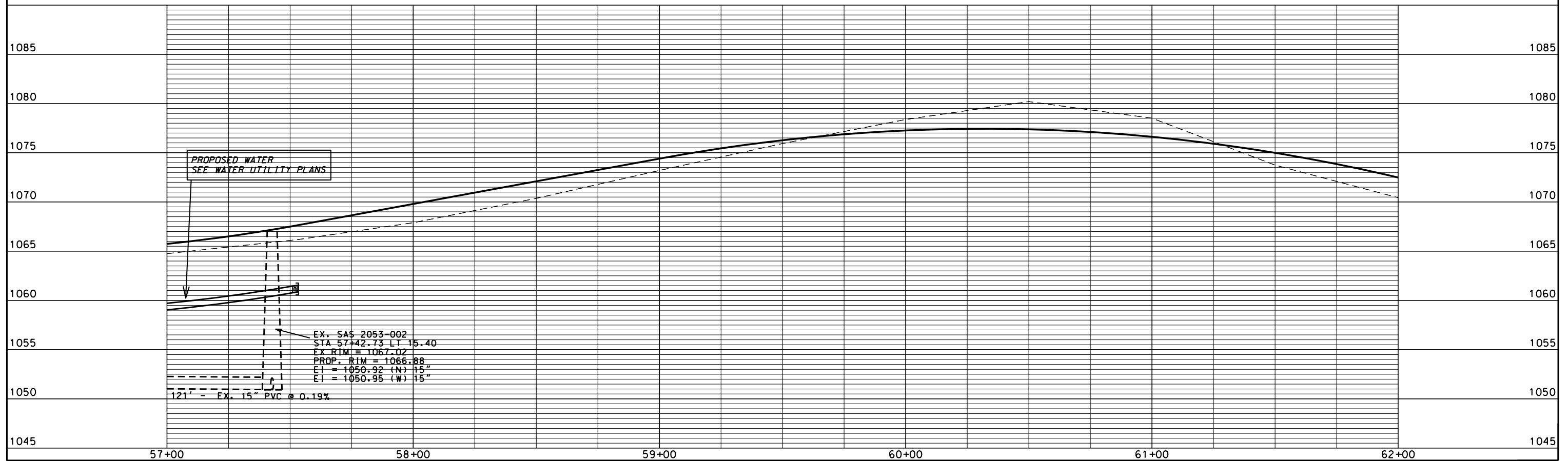
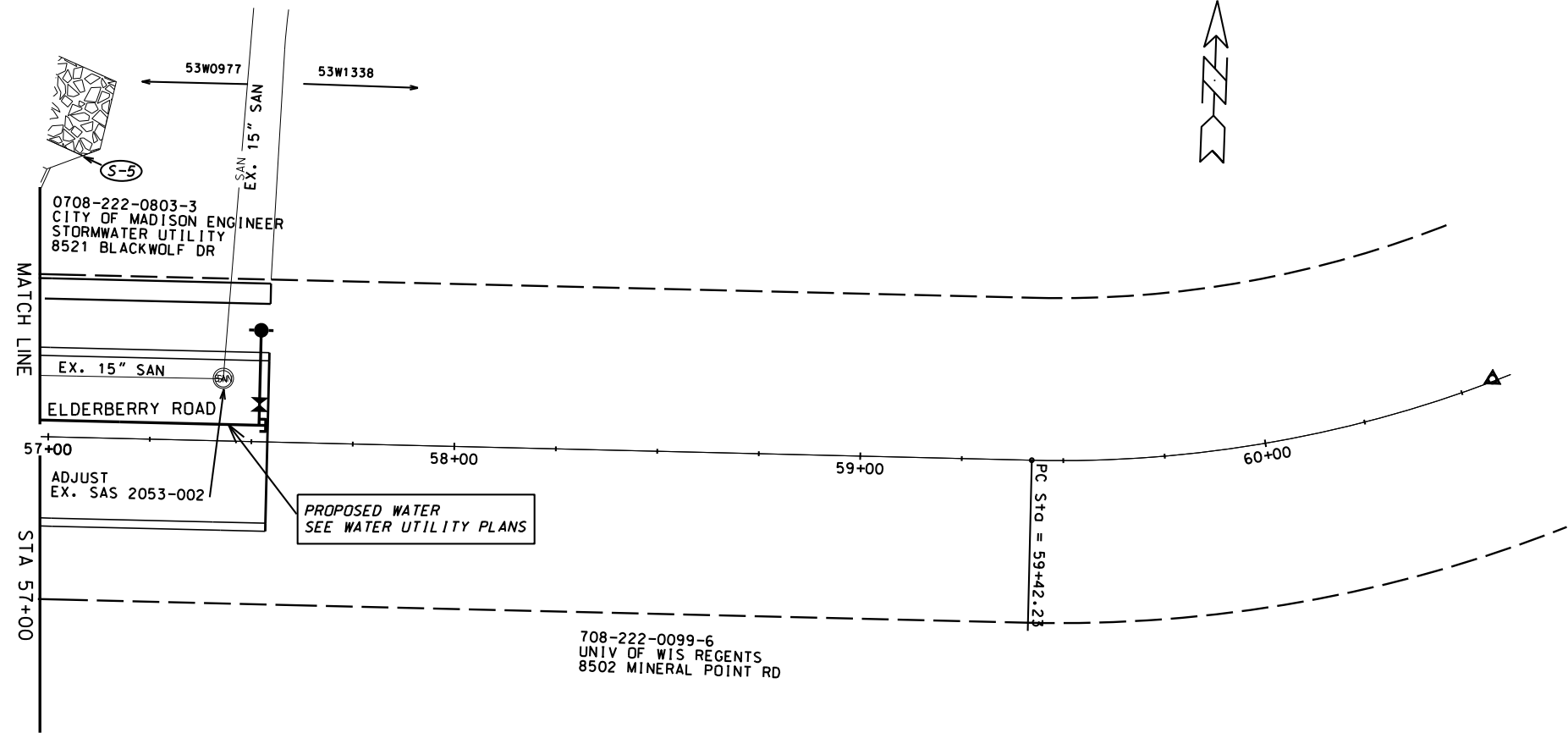


EX. SAS 2053-001
 STA 53+65.00 RT 8.65
 EX RIM = 1070.18
 PROP. RIM = 1070.29
 EI = 1051.68 (E) 15"
 EI = 1051.73 (W) 15"
 EI = 1052.31 (S) 8" TAP
 RECONSTRUCT BENCH AND
 FLOW LINES

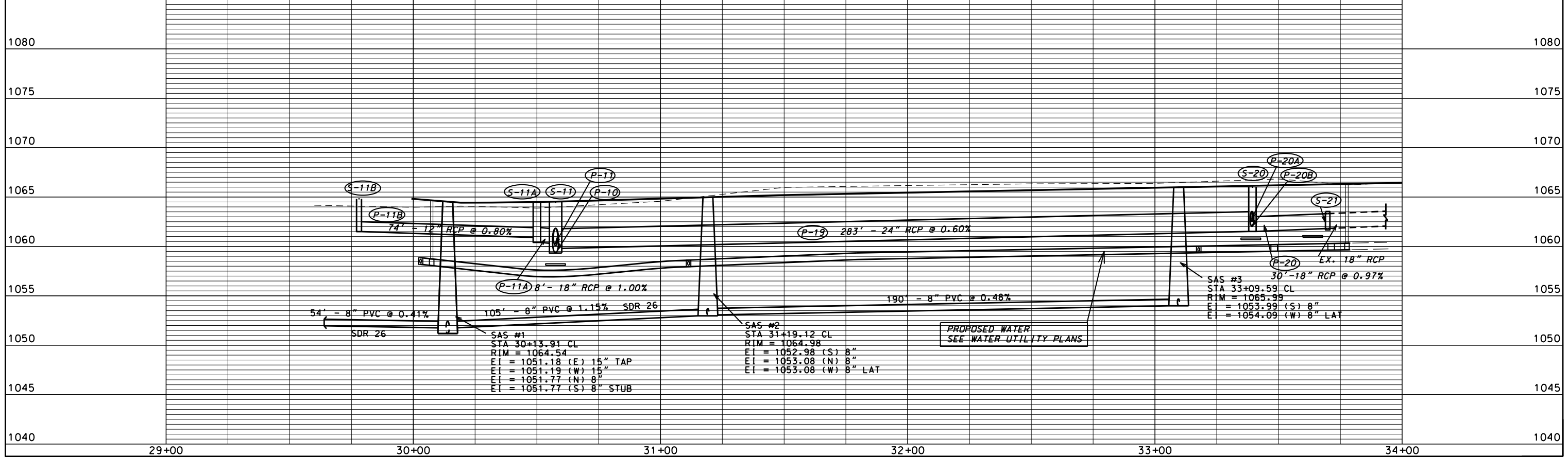
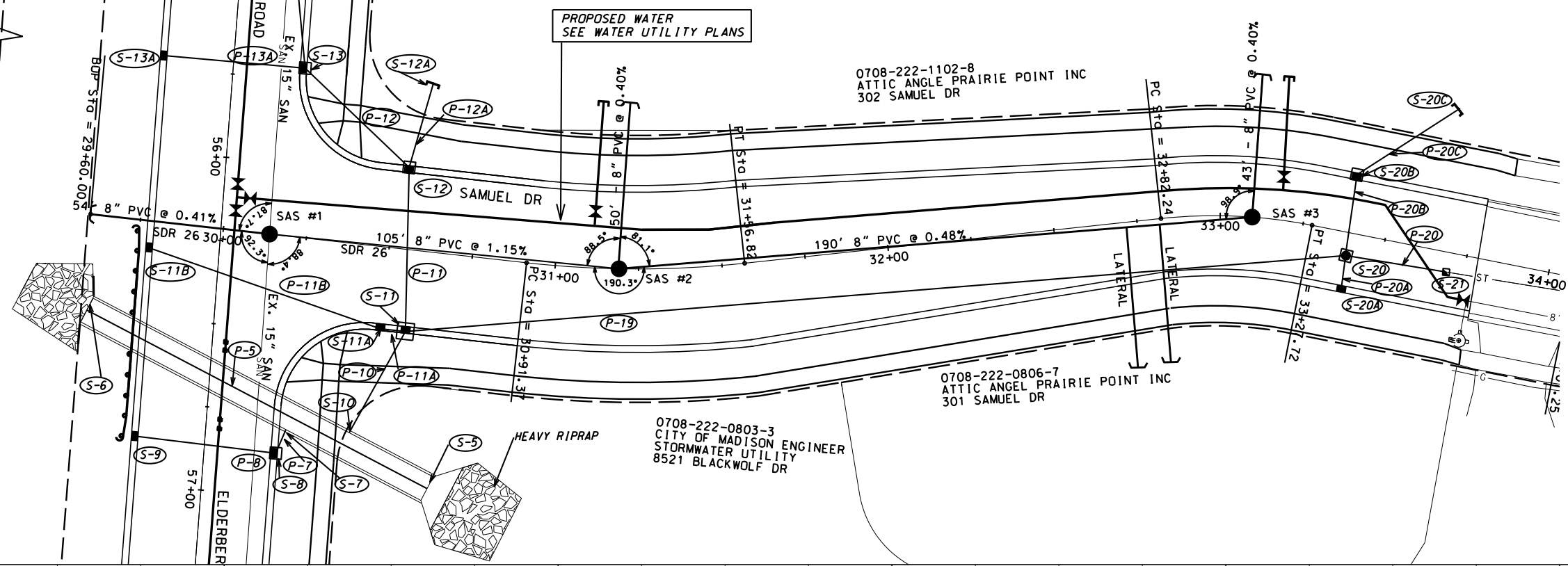
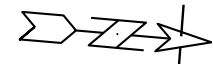
SAS #1
 STA 56+21.97 RT 14.65
 RIM = 1067.54
 EI = 1051.18 (E) 15" TAP
 EI = 1051.19 (W) 15"
 EI = 1051.77 (N) 8"
 EI = 1051.77 (S) 8" STUB

ORIGINATOR: CITY OF MADISON, STREEBEE'S DIVISION

PLOT SCALE: _____
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'ER' =ELDERBERRY ROAD
'SD' =SAMUEL DRIVE

ELDERBERRY, PLEASANT VIEW & SAMUEL
PROJECT NO 53W0977

SHEET NO.
U-5

STORM SEWER SCHEDULE CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-5	56'ER'+94.43	LT-67.50	WINGWALL	---	1058.27	---	REFER TO S.D.D. 5.5.1 AND 5.5.2, (1)
S-6	56'ER'+48.86	RT-38.15	END BOX	---	1058.85	---	NO WINGWALL
S-7	56'ER'+80.02	LT-24.00	TAP	---	1059.88	---	---
S-8	56'ER'+87.30	LT-21.50	3X3 SAS	1065.42	1060.42	5.00	W/ R-3067-7004-V
S-9	56'ER'+85.38	RT-21.50	H INLET	1065.38	1061.88	3.50	W/ R-3067-7004-V
S-10	56'ER'+79.49	LT-42.98	TAP	---	1059.15	---	---
S-11	30'SD'+57.56	RT-24.50	5x5 SAS	1064.49	1059.33	5.16	W/ R-3067-7004
S-11A	30'SD'+50.00	RT-24.50	H INLET	1064.51	1060.41	4.10	W/ R-3067-7004
S-11B	56'ER'+28.70	RT-21.50	H INLET	1064.82	1061.50	3.32	W/ R-3067-7004
S-12	30'SD'+53.27	LT-24.50	3X3 SAS	1064.47	1060.33	4.14	W/ R-3067-7004
S-12A	30'SD'+57.71	RT-50.64	PIPE PLUG	---	1060.47	---	---
S-13	55'ER'+70.58	LT-21.50	3X3 SAS	1065.21	1060.92	4.29	W/ R-3067-7004
S-13A	55'ER'+71.02	RT-21.50	H INLET	1065.24	1061.68	3.56	W/ R-3067-7004
S-14	54'ER'+04.84	RT-21.50	3X3 SAS	1069.41	1064.88	4.53	W/ R-3067-7004-V
S-14A	54'ER'+02.18	LT-21.50	H INLET	1069.48	1065.81	3.67	W/ R-3067-7004-V
S-15	52'ER'+08.31	LT-21.50	3X3 SAS	1072.59	1068.13	4.46	W/ R-3067-7004-V
S-16	51'ER'+68.89	LT-49.13	H INLET	1073.68	1068.37	5.31	FP, W/ R-3067-7004-V
S-20	33'SD'+39.44	RT-6.93	3X3 SAS	1066.00	1061.52	4.48	W/ R-1550 W/ LOGO LID 1550-0054
S-20A	33'SD'+40.02	RT-17.50	H INLET	1066.20	1062.58	3.62	W/ R-3067-7004-V
S-20B	33'SD'+37.96	LT-17.50	3X3 SAS	1066.19	1062.17	4.02	W/ R-3067-7004-V
S-20C	33'SD'+64.39	LT-43.00	PIPE PLUG	---	1062.35	---	---
S-21	33'SD'+69.84	RT-5.93	CONCRETE COLLAR	---	1061.81	---	CONNECT TO EX. 18" RCP, (3)
S-30	48'ER'+50.00	RT-28.50	APRON ENDWALL	---	1066.10	---	19"X30" HERCP, (4)
S-31	48'ER'+50.00	LT-27.50	APRON ENDWALL	---	1066.40	---	19"X30" HERCP, (4)

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-5	S-5	S-6	115	1058.27	1058.85	0.50%	8'X4'	RC BOX	(2)
P-7	S-7	S-8	8	1059.88	1060.42	6.75%	15"	RCP	
P-8	S-8	S-9	43	1061.02	1061.88	2.00%	12"	RCP	NCM
P-10	S-10	S-11	35	1059.15	1059.33	0.51%	30"	RCP	
P-11A	S-11	S-11A	8	1060.33	1060.41	1.00%	18"	RCP	
P-11B	S-11A	S-11B	74	1060.91	1061.50	0.80%	12"	RCP	
P-11	S-11	S-12	49	1060.08	1060.33	0.51%	21"	RCP	
P-12A	S-12	S-12A	27	1060.33	1060.47	0.52%	18"	RCP	NCM
P-12	S-12	S-13	43	1060.58	1060.92	0.79%	18"	RCP	
P-13A	S-13	S-13A	43	1061.42	1061.68	0.60%	12"	RCP	
P-13	S-13	S-14	172	1060.92	1064.88	2.30%	18"	RCP	
P-14A	S-14	S-14A	43	1065.38	1065.81	1.00%	12"	RCP	
P-14	S-13	S-15	200	1065.13	1068.13	1.50%	15"	RCP	
P-15	S-15	S-16	48	1068.13	1068.37	0.50%	15"	RCP	
P-19	S-11	S-20	283	1059.83	1061.52	0.60%	24"	RCP	
P-20A	S-20	S-20A	10	1062.52	1062.58	0.60%	12"	RCP	
P-20B	S-20	S-20B	24	1062.02	1062.17	0.63%	18"	RCP	
P-20C	S-20B	S-20C	37	1062.17	1062.35	0.49%	18"	RCP	
P-20	S-20	S-21	30	1061.52	1061.81	0.97%	18"	RCP	NCM
P-30	S-30	S-31	56	1066.10	1066.40	0.54%	19"X30"	HERCP	

STORM SEWER STRUCTURE REMOVALS

STRUCTURE REMOVAL ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	AS 2052-015	50'ER'+85 RT-1	SAS	4' DIA

PIPE REMOVALS

PIPE REMOVAL N	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	PIPE SIZE	TYPE	NOTES
RP-1	END	END	40	Y	18"	CMP	48'ER'+50.00
RP-2	R-1	END	25	Y	21"	RCP	
RP-3	R-1	END	25	Y	21"	RCP	

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
- 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 LISA COLEMAN OF CITY ENGINEERING AT (608) 266-4093 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

SPECIFIC NOTES:

- (1) STATION AND OFFSET GIVEN IS TO CENTER OF END OF BOX
- (2) LENGTH MEASURED FROM END BOX TO END BOX (NOT SPLASH PAD)
- (3) FIELD VERIFY INVERT ELEV.
- (4) STATION AND AND OFFSET TO END AE, SEE S.D.D. 5.4.1 AND S.D.D. 5.4.3

SANITARY SCHEDULE

ALIGNMENT CODES:

'ER' =ELDERBERRY ROAD
'SD' =SAMUEL DRIVE

ELDERBERRY, PLEASANT VIEW & SAMUEL PROJECT NO. 53W0977	SHEET NO. U-6
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS #1	30'SD'+13.91	CL	1064.54	1051.18	13.36	4' DIA. W/ R-1550 LOGO LID, (1)
SAS #2	31'SD'+19.12	CL	1064.98	1052.98	12.00	4' DIA. W/ R-1550 LOGO LID
SAS #3	33'SD'+09.59	CL	1065.99	1053.99	12.00	4' DIA. W/ R-1550 LOGO LID
PLUG	29'SD'+59.91	CL	---	1051.99	---	MARK W/ MARKER BALL
PLUG	31'SD'+22.13	LT-50.00	---	1053.28	---	MARK W/ MARKER BALL
PLUG	33'SD'+09.59	LT-43.00	---	1054.26	---	MARK W/ MARKER BALL
PLUG	53'ER'+72.37	RT-43.00	---	1052.51	---	MARK W/ MARKER BALL

PROPOSED SANITARY PIPES

FROM SAS (DOWNSTREAM)	TO SAS (UPSTREAM)	EI (DOWN)	EI (UP)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES:
SAS #1	SAS #2	1051.77	1052.98	105	1.15%	8"	SDR-26 PVC	
SAS #2	SAS #3	1053.08	1053.99	190	0.48%	8"	SDR-35 PVC	
SAS #1	PLUG	1051.77	1051.99	54	0.41%	8"	SDR-26 PVC	
SAS #2	PLUG	1053.08	1053.28	50	0.40%	8"	SDR-35 PVC	FOR CONNECTION OF PRIVATE SEWER
SAS #3	PLUG	1054.09	1054.26	43	0.40%	8"	SDR-35 PVC	FOR CONNECTION OF PRIVATE SEWER
SAS 2053-001	PLUG	1052.31	1052.51	50	0.40%	8"	SDR-26 PVC	

ADJUST SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	EX. RIM ELEV.	PROP RIM SIZE ELEV. (DIA)	EX. ADJ. NOTES HEIGHT
SAS 2053-001	53'ER'+65.00	RT-8.65	1070.18	1070.29 4' DIA	10" ADJUST SAS SPECIAL
SAS 2053-002	57'ER'+42.73	LT-15.40	1067.02	1066.88 4' DIA	10" ADJUST SAS

SPECIFIC NOTES:

(1) INSTALL INTERNAL CHIMNEY SEAL

REV: ARW 4.15.13 (SAMUEL DR SEE W-4)

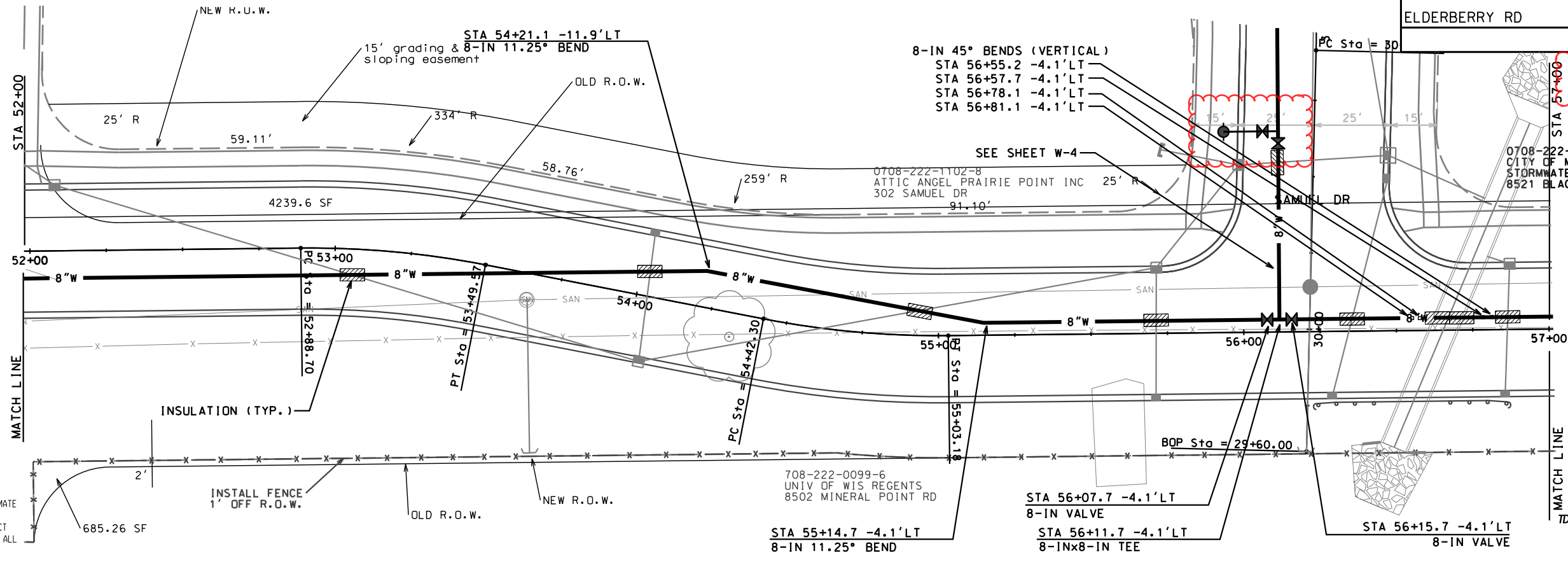
0708-222-0803-3 CITY OF MADISON ENGINEER STORMWATER UTILITY 8521 BLACKWOLF DR



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

CALL DIGGERS HOTLINE 811
or 1-800-242-8511
TOLL FREE
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.



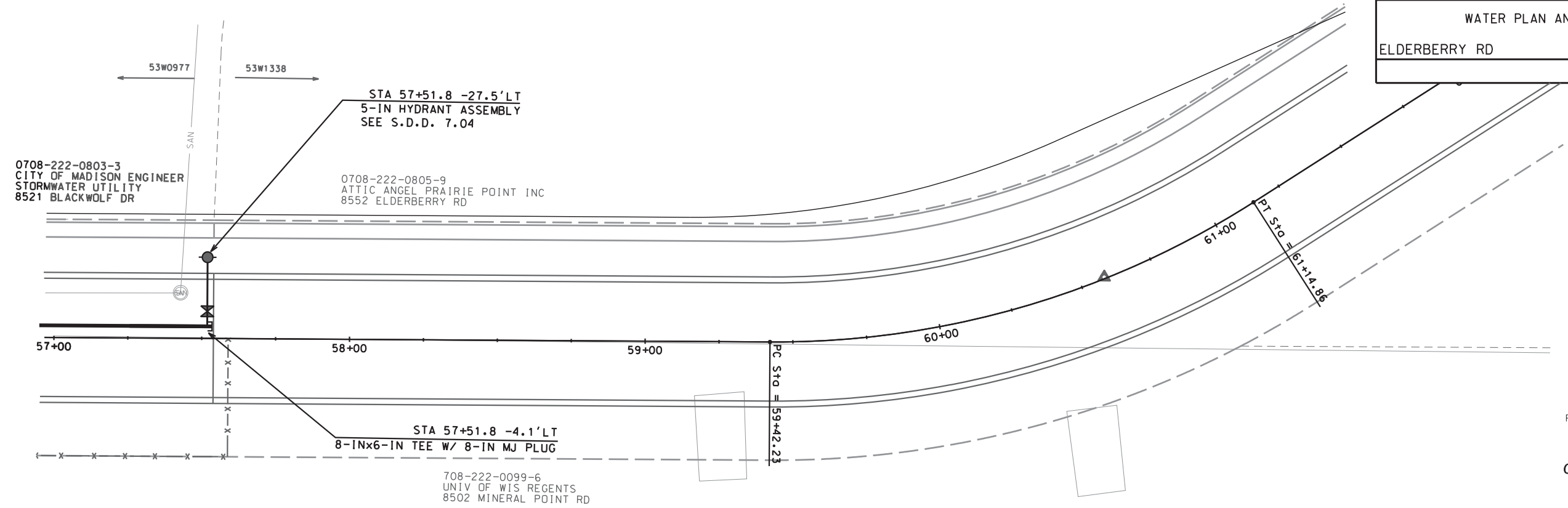
DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

1085	NOTE 1: 18-IN CLEARANCE (MIN.) REQ'D AT SEWER CROSSING	1085
1080		1080
1075	TYPICAL 6-FT BURY DEPTH (REFERENCE LINE)	1075
1070	INSULATION (TYP.)	1070
1065	END VERTICAL DEFLECTION (APPROXIMATE LOCATION)	1065
1060	8-IN WATER MAIN	1060
1055	BEGIN VERTICAL DEFLECTION TO ELIMINATE HIGH-POINT (APPROXIMATE LOCATION)	1055
1050	8-IN 45° BEND (TOP) ELEV = 1.058.9FT 8-IN 45° BEND (TOP) ELEV = 1.056.4-FT 8-IN 45° BEND (TOP) ELEV = 1.056.4-FT 8-IN 45° BEND (TOP) ELEV = 1.059.4-FT	1050
1045		1045

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1"=40'

REV. DATE: 4/15/2013

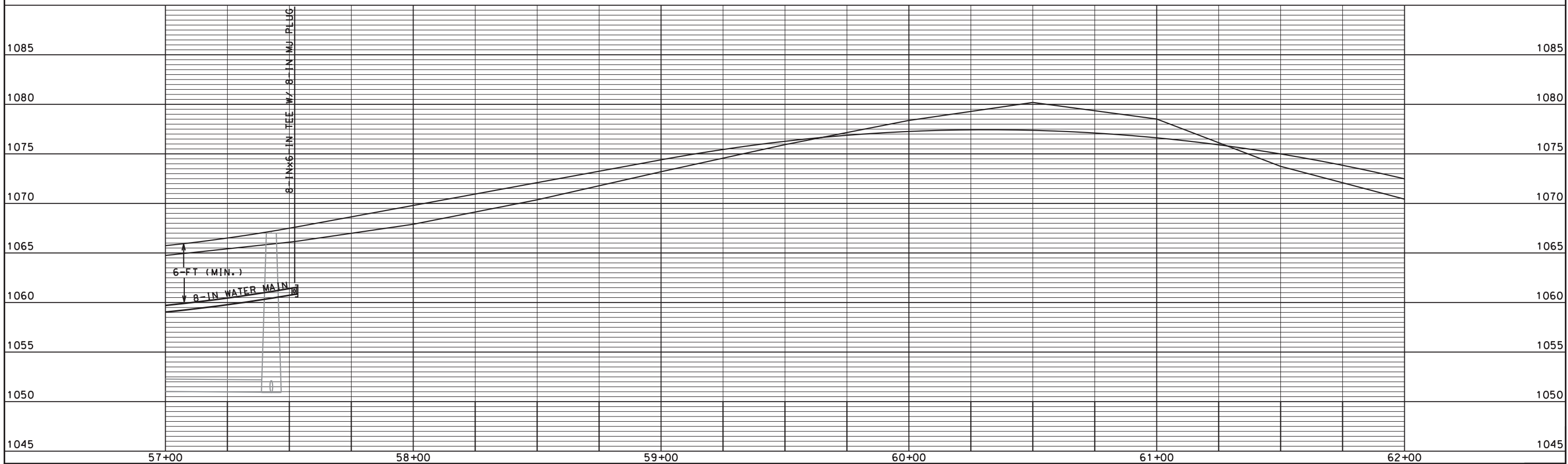


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION
 REV. DATE:
 PLOT NAME:
 PLOT SCALE:

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 DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
 4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
 5. 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

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 54' - 6" PIPE
- 980' - 8" PIPE
- 382' - 12" PIPE
- 1,540' - POLYWRAP
- 96' - INSULATION
- 80' - 24" STEEL CASING
- 3 - 5" HYDRANTS
- 3 - 6" VALVES AND BOXES
- 7 - 8" VALVES AND BOXES
- 2 - 8"X6" TEES
- 3 - 8"X8" TEES
- 1 - 12"X6" TEE
- 1 - 12"X8" REDUCER
- 2 - 8" 11.25° BENDS
- 6 - 8" 45° BENDS
- 2 - 8" MJ CAPS
- 1 - 8" MJ PLUG
- 1 - 12" MJ PLUG
- 110' - 1-IN COPPER TUBING

MATERIALS SUPPLIED BY CITY:

NONE

REMOVED/SALVAGED MATERIALS:

NONE

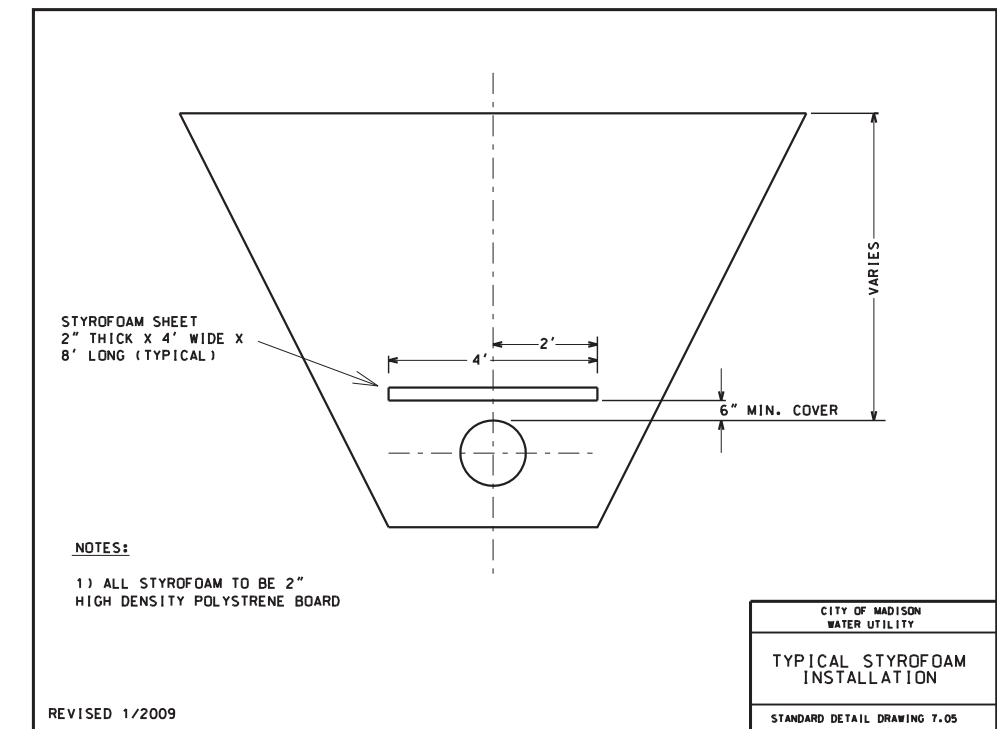
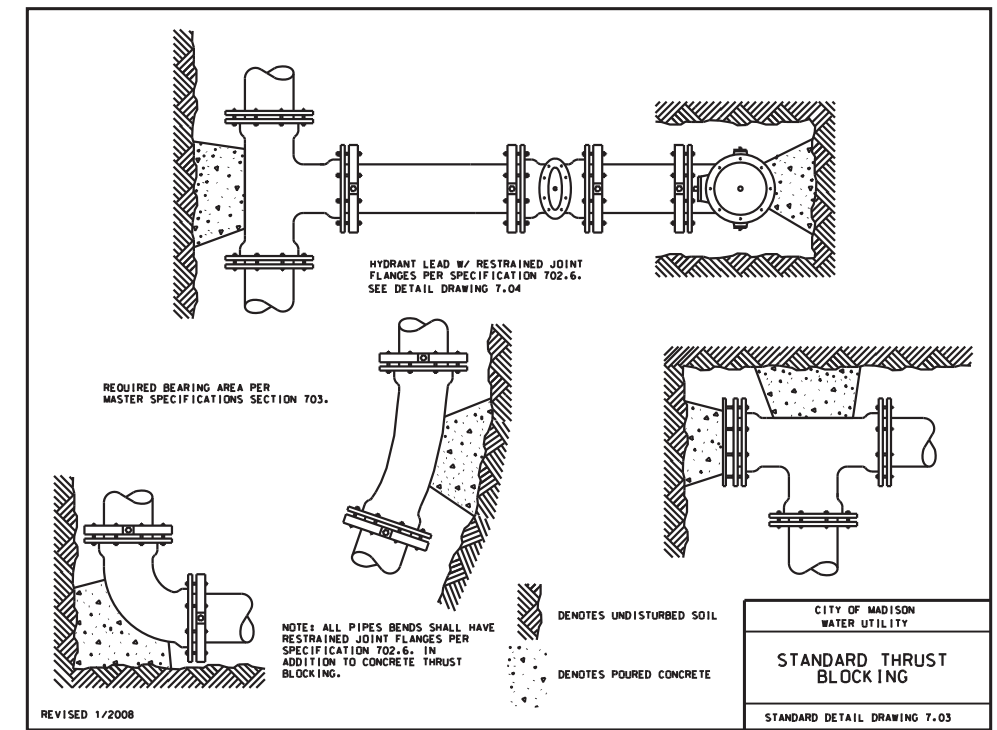
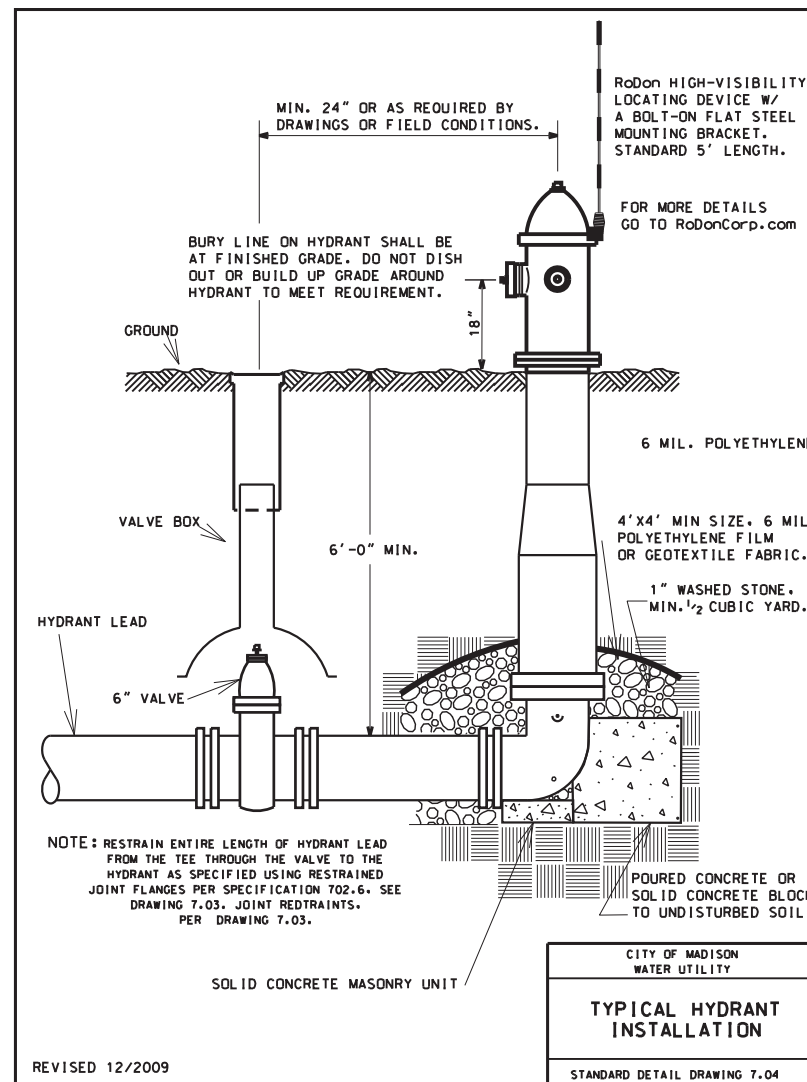
REUSED MATERIALS:

NONE



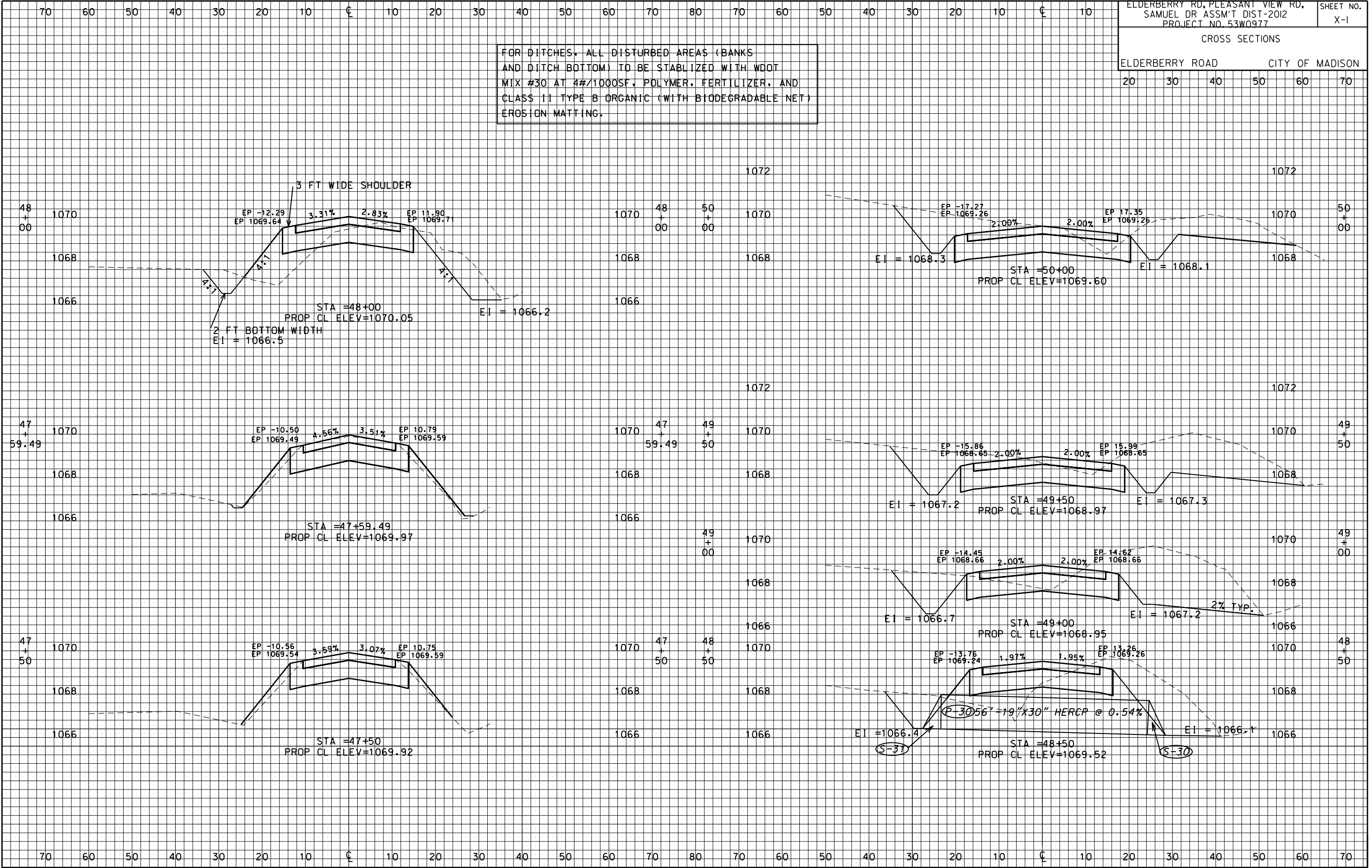
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CROSS SECTIONS
ELDERBERRY ROAD CITY OF MADISON

FOR DITCHES, ALL DISTURBED AREAS (BANKS
AND DITCH BOTTOM) TO BE STABILIZED WITH WOOL
MIX #30 AT 4#/1000SF, POLYMER, FERTILIZER, AND
CLASS II TYPE B ORGANIC (WITH BIODEGRADABLE NET)
EROSION MATTING.

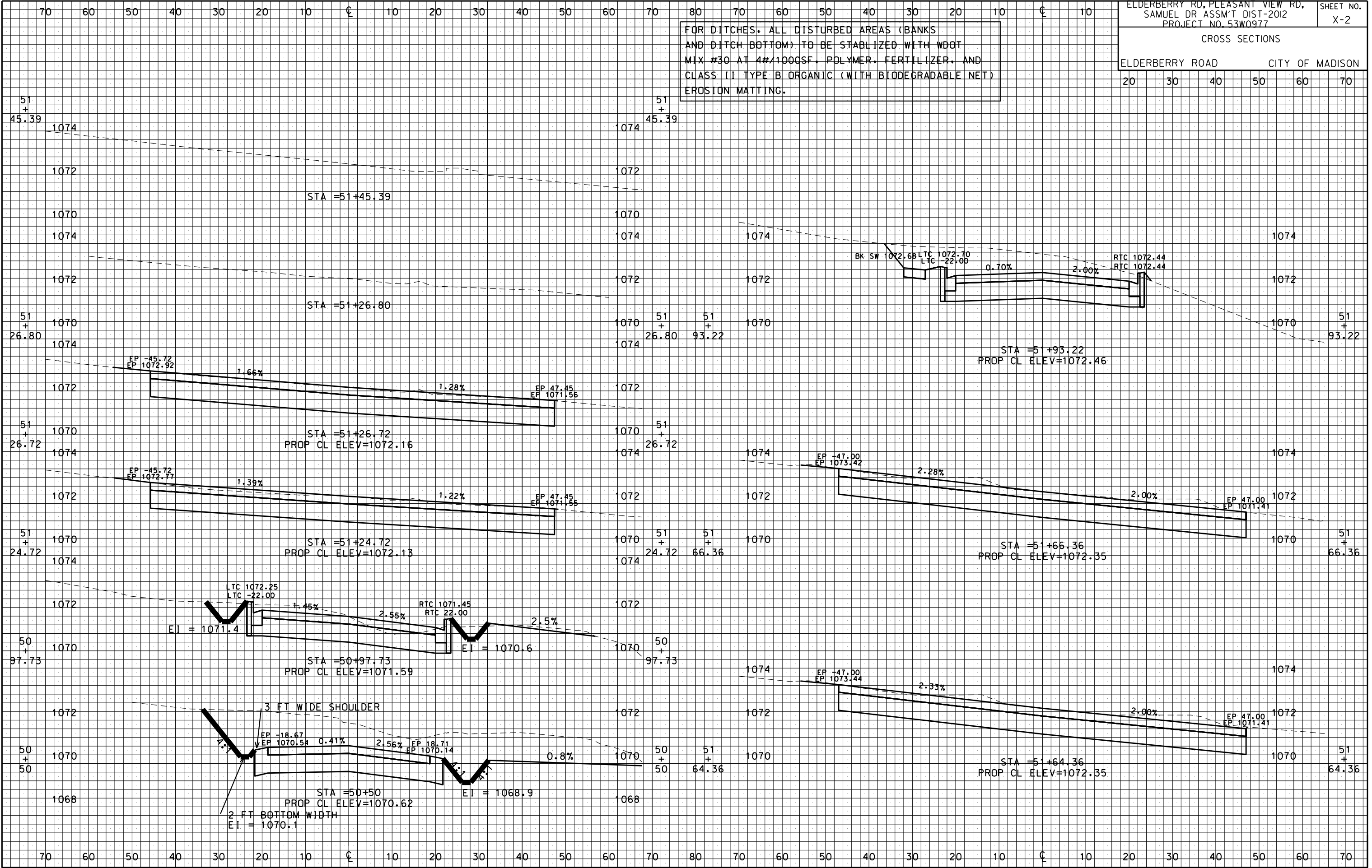


PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

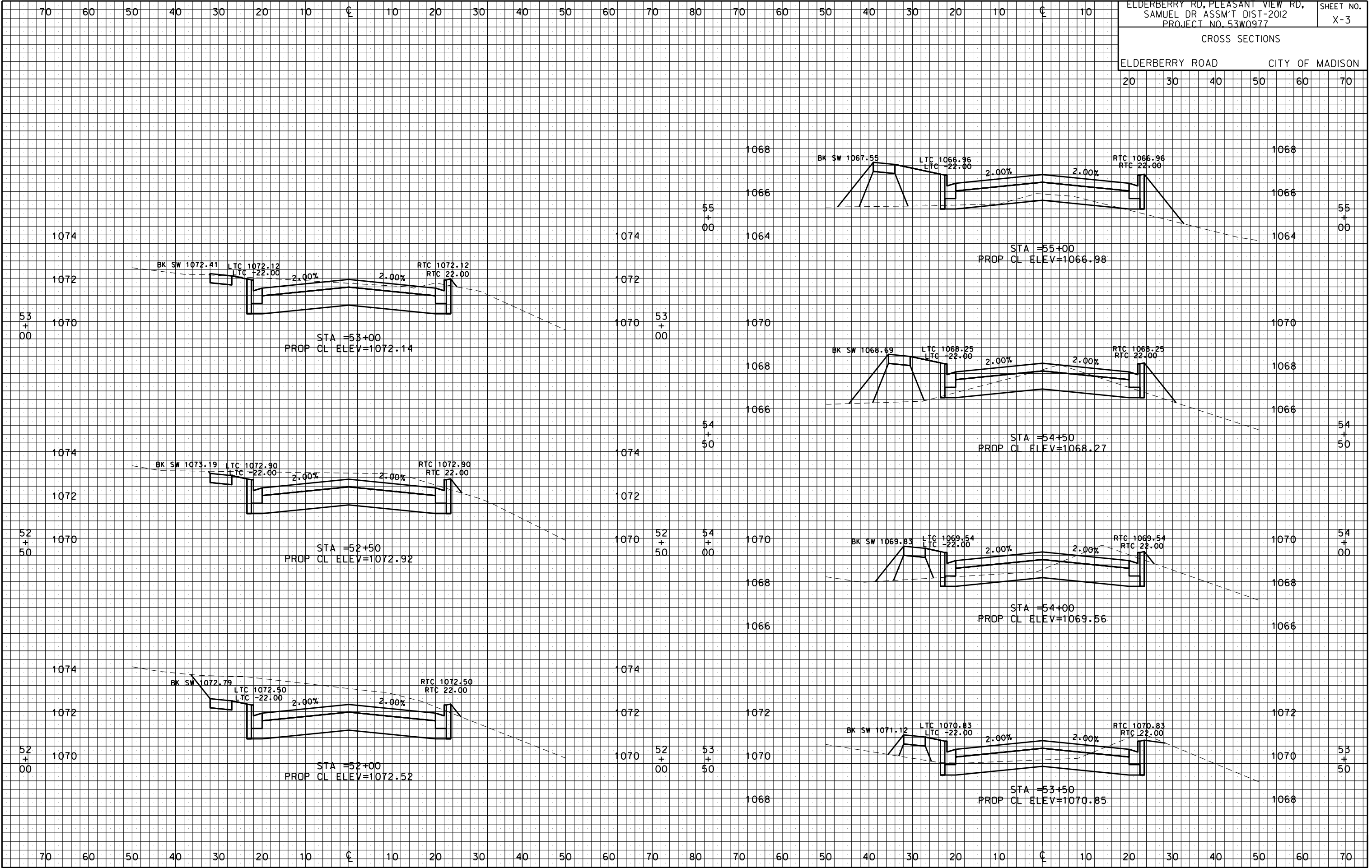
CROSS SECTIONS
ELDERBERRY ROAD CITY OF MADISON

FOR DITCHES. ALL DISTURBED AREAS (BANKS AND DITCH BOTTOM) TO BE STABILIZED WITH WDOT MIX #30 AT 4#/1000SF. POLYMER, FERTILIZER, AND CLASS II TYPE B ORGANIC (WITH BIODEGRADABLE NET) EROSION MATTING.



PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____

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PLOT SCALE: _____

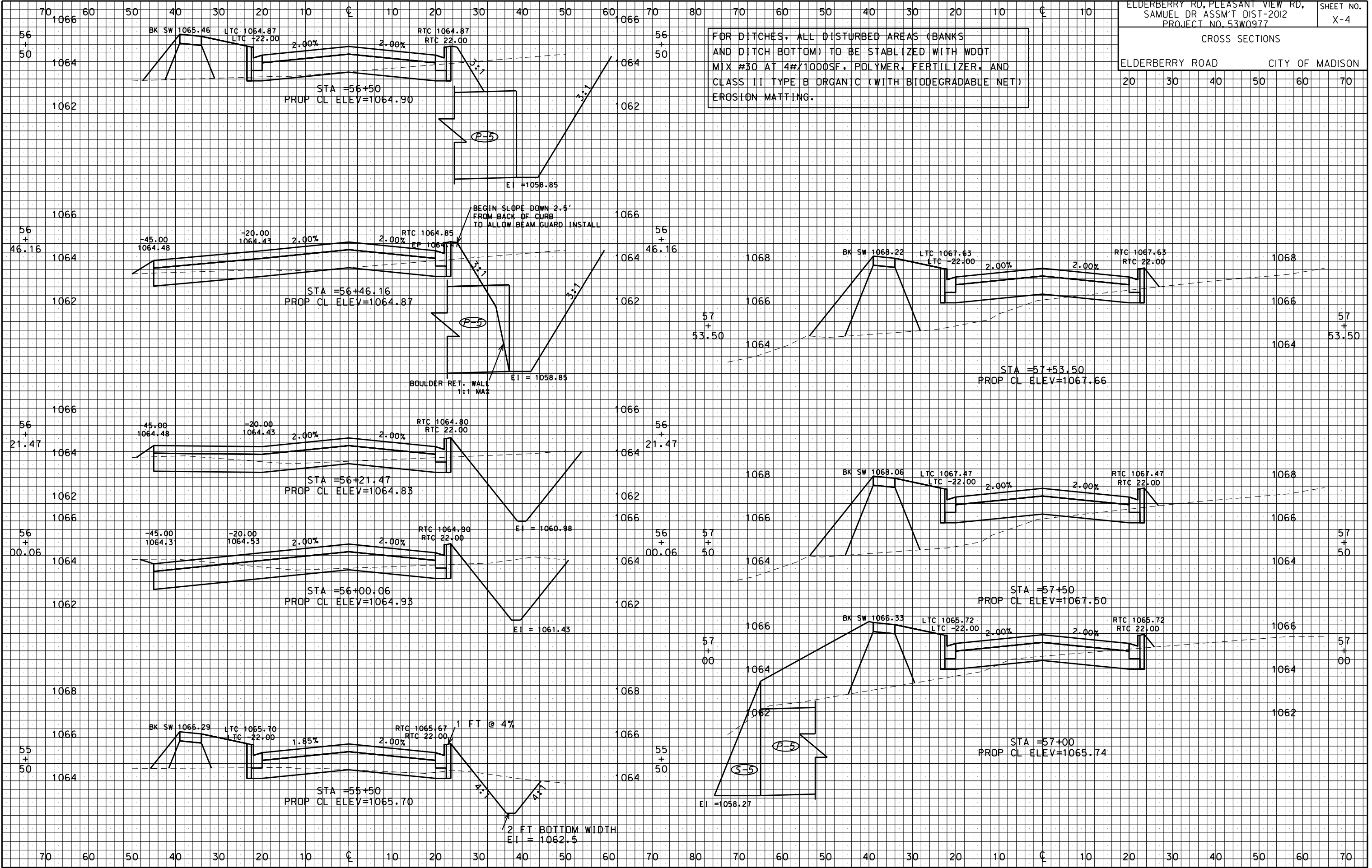
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CROSS SECTIONS
ELDERBERRY ROAD CITY OF MADISON

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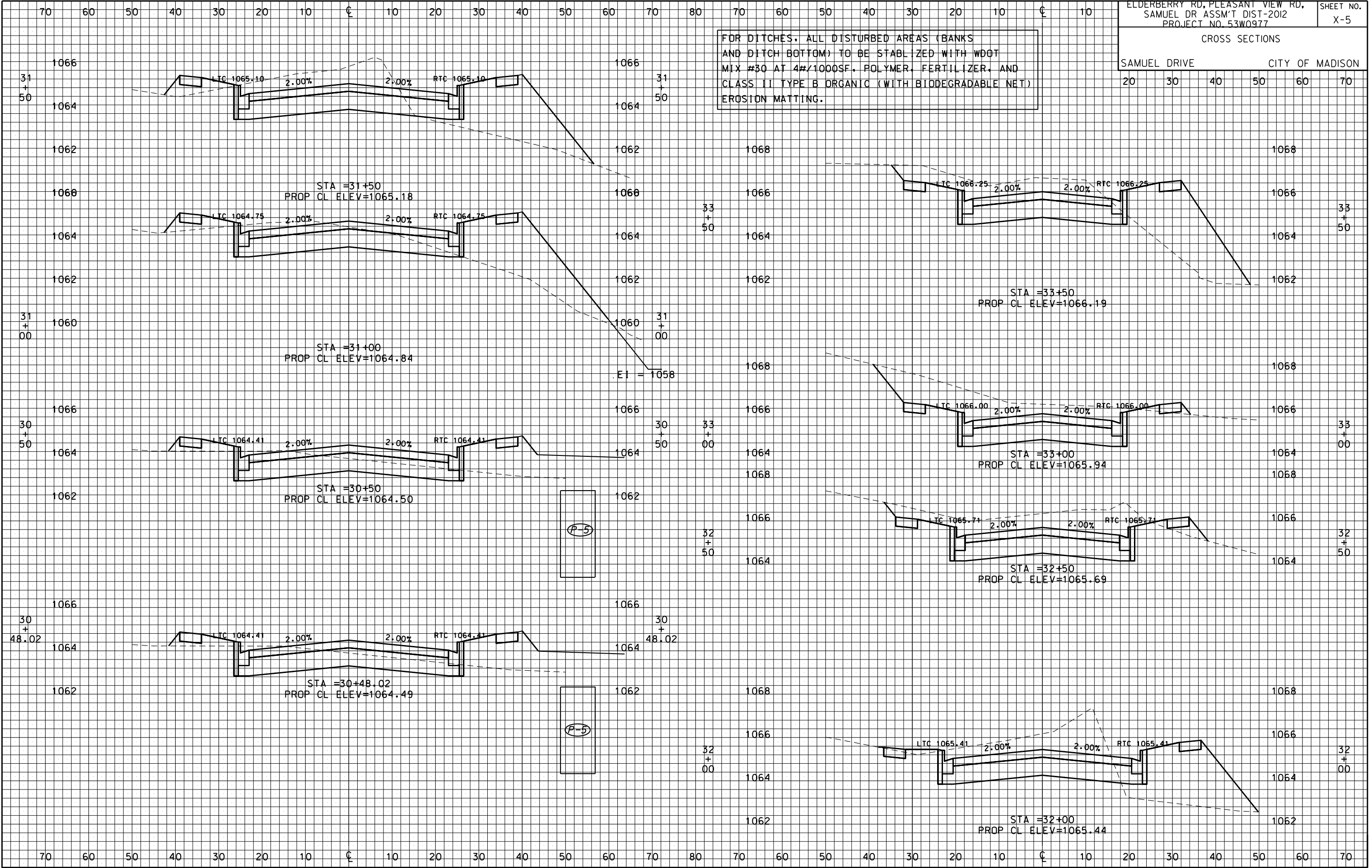
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

SAMUEL DRIVE CITY OF MADISON

FOR DITCHES, ALL DISTURBED AREAS (BANKS AND DITCH BOTTOM) TO BE STABILIZED WITH WDOT MIX #30 AT 4#/1000SF. POLYMER, FERTILIZER, AND CLASS II TYPE B ORGANIC (WITH BIODEGRADABLE NET) EROSION MATTING.

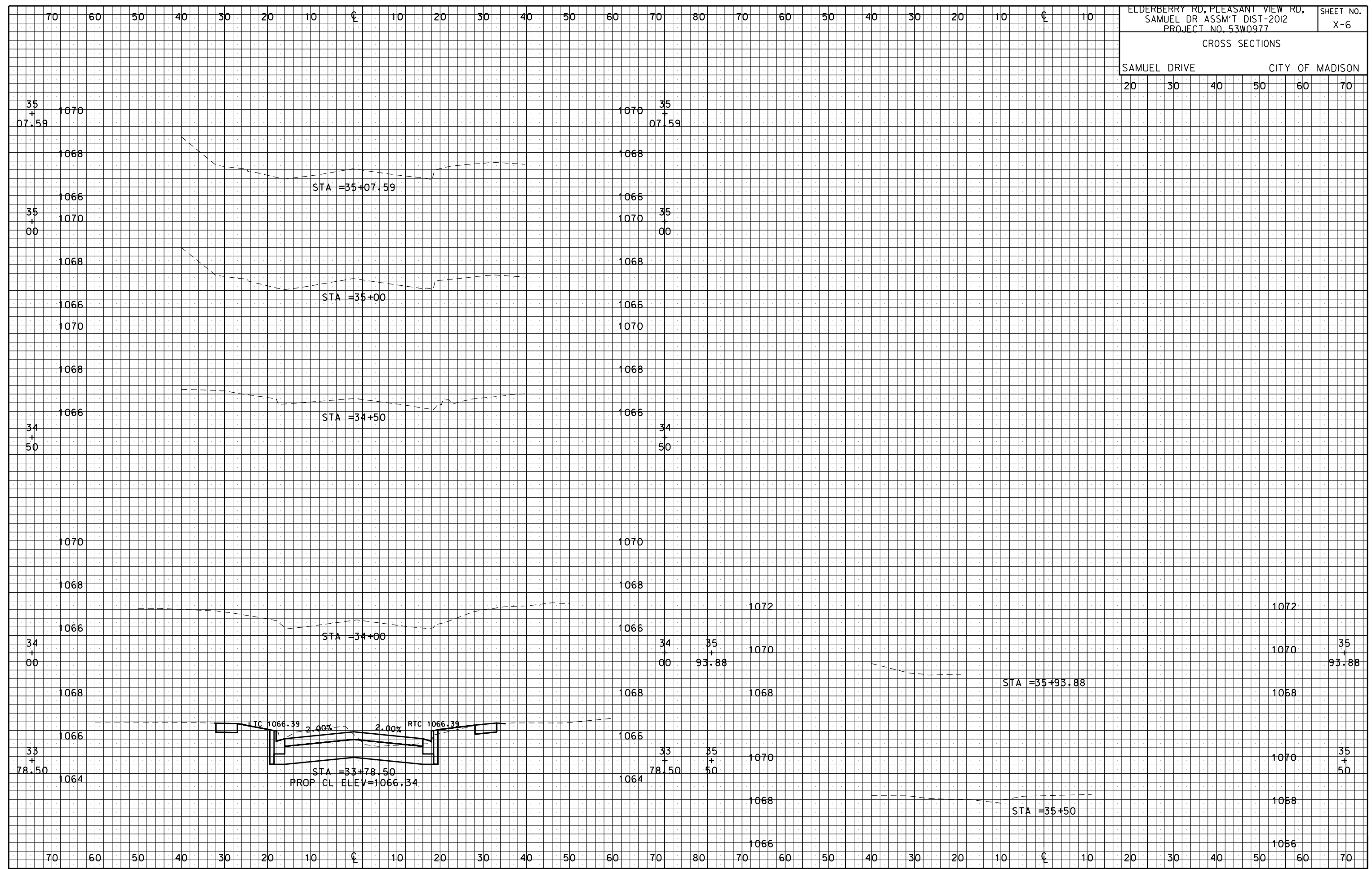


PLOT NAME: _____
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

SAMUEL DRIVE CITY OF MADISON
 20 30 40 50 60 70



PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION