

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

SHEPARD TERRACE, CHAMBERLAIN AVEUNE, VAN HISE AVENUE AND MASON STREET

ASSESSMENT DISTRICT - 2018

CITY PROJECT NO. 11742


CONTRACT NO. 8104

PUBLIC IMPROVEMENT PROJECT APPROVED

SEPTEMBER 25, 2018

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

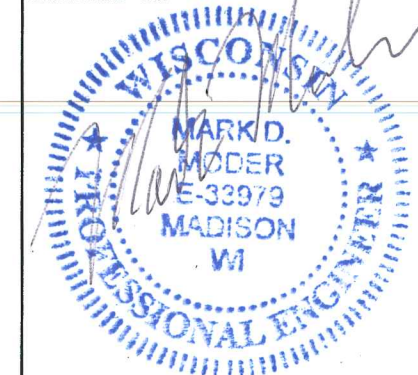
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:


City Engineer 10/19/18
Date

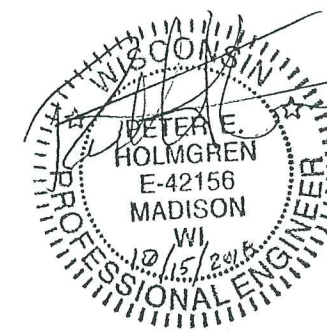
STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:



WATER MAIN
DESIGNED BY:



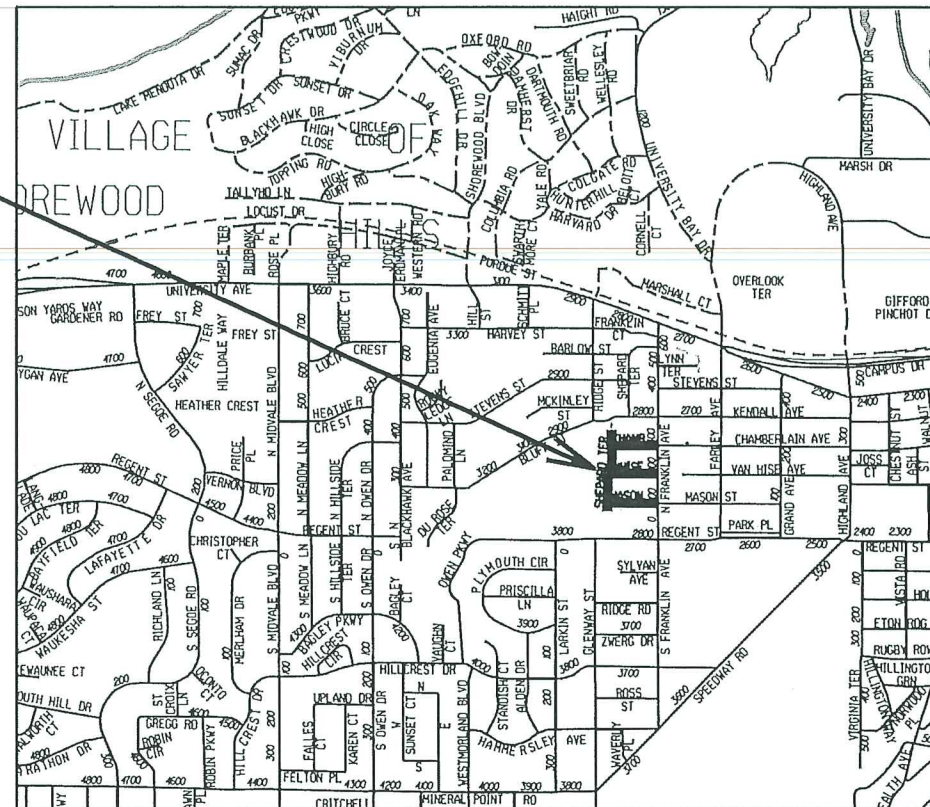
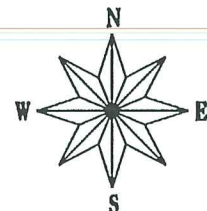
STORM SEWER
DESIGNED BY:



INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTIONS & DETAILS
D1-D4	EROSION CONTROL PLANS
EC1-EC5	STREET PLAN & PROFILES
P1-P8	SEWERS PLAN & PROFILES
U1-U5	SEWER SCHEDULES
U6-U7	WATER PLAN & PROFILES
W1-W5	EXISTING WATER SYSTEM IMPACT PLANS
W6	WATER ESTIMATE OF MATERIALS
W7	SHEPARD TERRACE CROSS SECTIONS
X1-X5	CHAMBERLAIN AVENUE CROSS SECTIONS
X6-X8	VAN HISE AVENUE CROSS SECTIONS
X9-X11	MASON STREET CROSS SECTIONS
X12-X14	

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%

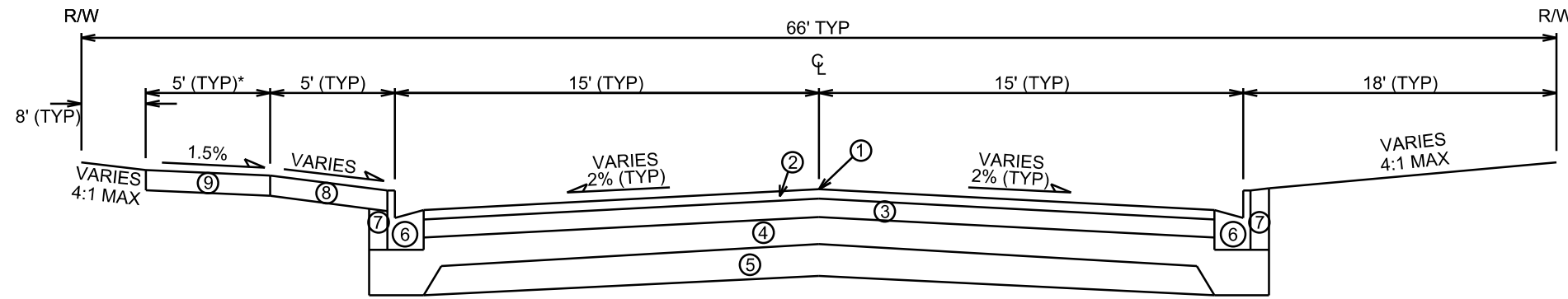
EARTH WORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY).....3,830 C.Y.

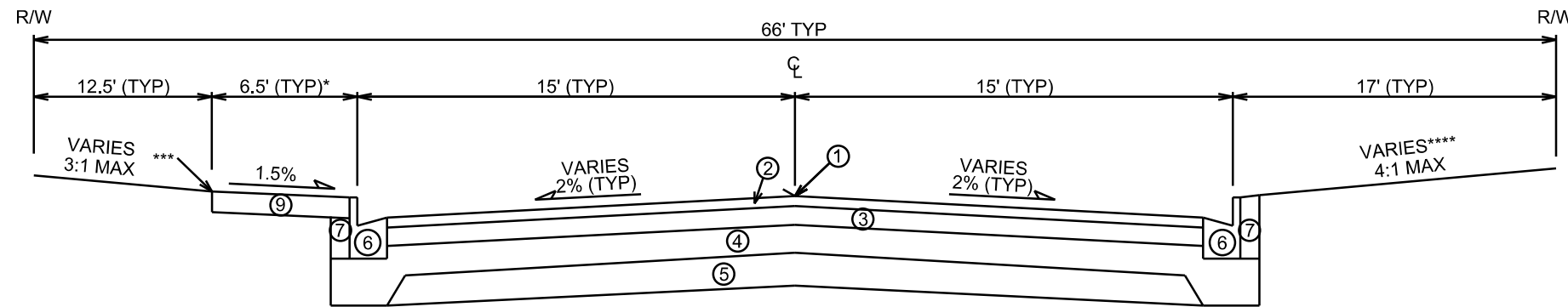
ESTIMATED UNDISTRIBUTED UNDERCUT.....570 C.Y.

TOTAL UNCLASSIFIED EXCAVATION CUT.....4,400 C.Y.

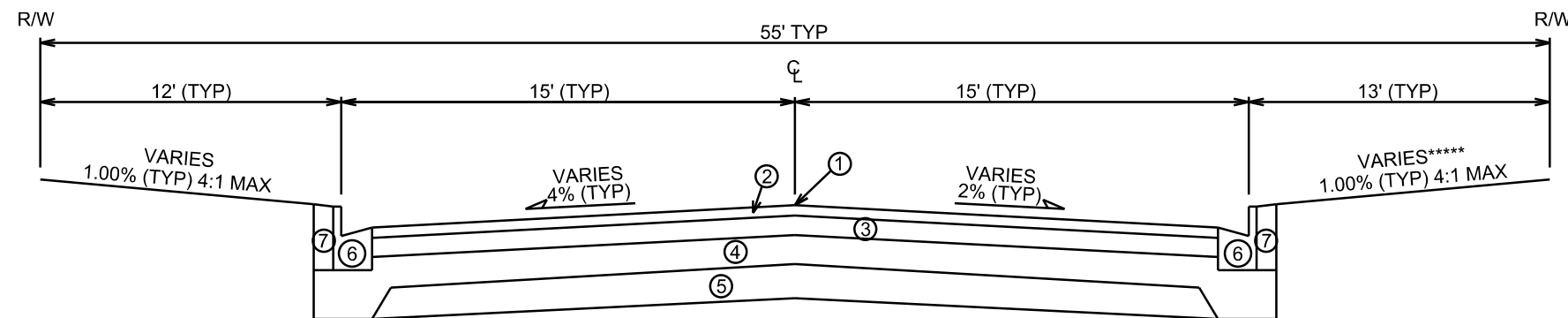
PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____ ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL FINISHED SECTION
 SHEPARD TERRACE
 STA 100+62.32 TO STA 104+06.40



TYPICAL FINISHED SECTION
 SHEPARD TERRACE
 STA 104+06.40 TO STA 109+25.56



TYPICAL FINISHED SECTION
 CHAMBERLAIN AVENUE
 STA 400+73.50 TO STA 405+36.80

- ① POINT REFERRED TO ON PROFILE
- ② 1.3/4" BITUMINOUS UPPER LAYER, 3 LT 58-28 S
- ③ 1 3/4" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 6" TOPSOIL, TERRACE SEED AND EROSION MAT
- ⑨ 5" CONCRETE SIDEWALK, INSTALL NEW OR REPLACE AS NOTED ON PLANS

NOTE:
 - SEE PLAN/PROFILE SHEETS FOR TOP OF CURB ELEVATIONS.
 - TYPICAL SECTION NOT TO SCALE.

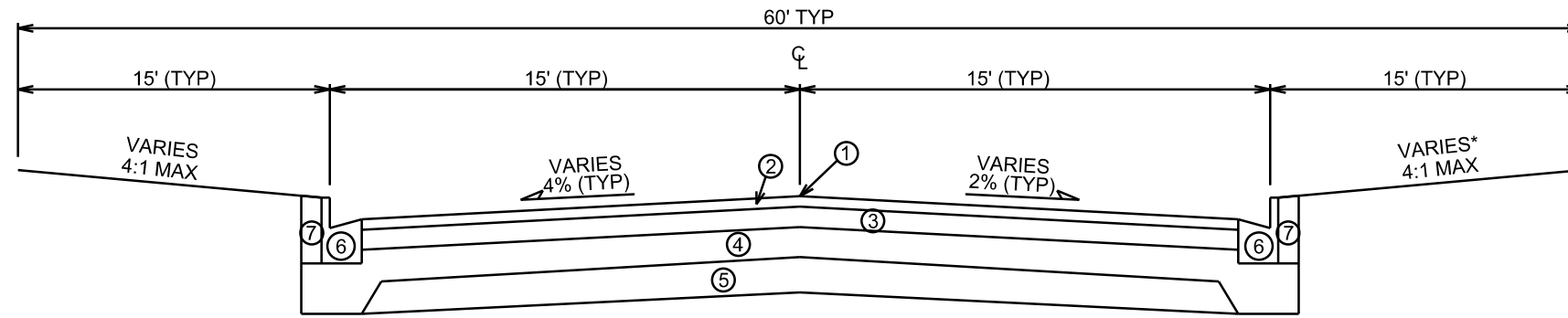
*NO SIDEWALK FROM STA 100+62 LT TO STA 101+50 LT.
 **7.5' SIDEWALK FROM STA 105+50 LT TO STA 106+08 LT ALONG PROPOSED RETAINING WALL.
 ***PROP. RETAINING WALL FROM STA 105+50 LT TO STA 106+08 LT (3' MAX HEIGHT).
 ****EX. SIDEWALK FROM STA 106+36 RT TO STA 107+67 RT TO REMAIN.
 *****EX. SIDEWALK FROM STA 400+94 RT TO STA 401+70 RT TO REMAIN.

PLOT SCALE: _____

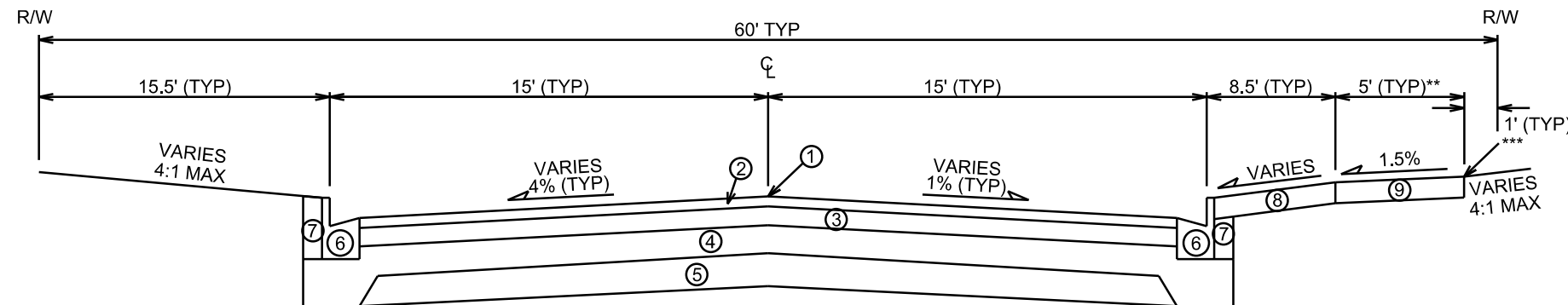
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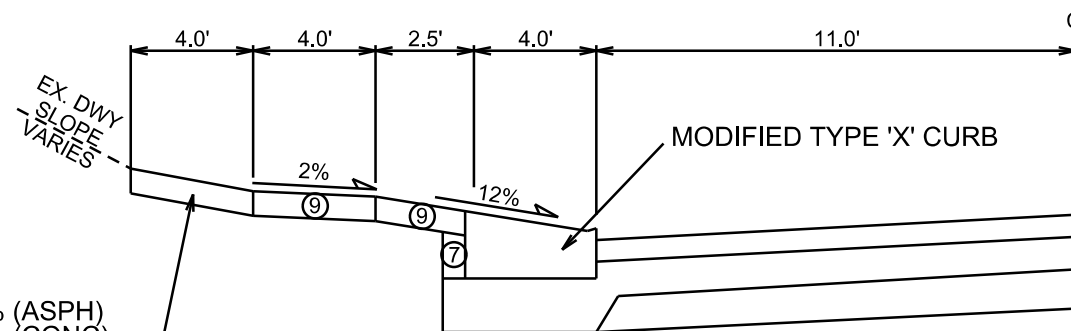
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL FINISHED SECTION
VAN HISE AVENUE
STA 300+69.52 TO STA 305+71.23



TYPICAL FINISHED SECTION
MASON STREET
STA 200+55.37 TO STA 205+73.90



EX. DWY SLOPE VARIES
 STA 105+42 LT SLOPE = 18.25% (ASPH)
 STA 106+46 LT SLOPE = 11.75% (CONC)
 STA 107+27 LT SLOPE = 19.75% (CONC)

MODIFIED TYPE 'X' CURB
PAY AS TYPE 'X' CURB
NOT TO SCALE
202 SHEPARD TERRACE
210 SHEPARD TERRACE
214 SHEPARD TERRACE

- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" BITUMINOUS UPPER LAYER, 3 LT 58-28 S
- ③ 1 3/4" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
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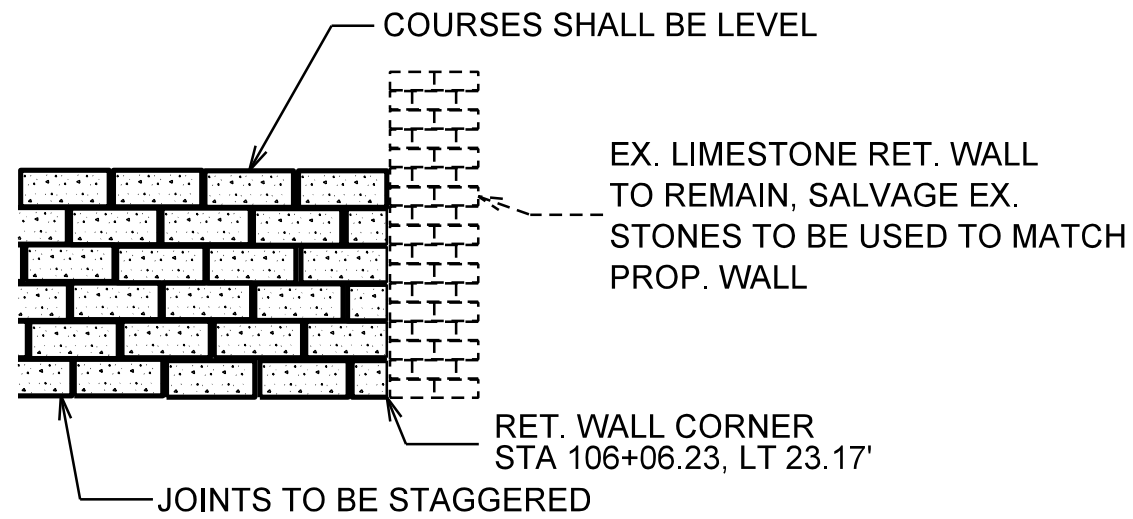
NOTE:
 - SEE PLAN/PROFILE SHEETS FOR TOP OF CURB ELEVATIONS.
 - TYPICAL SECTION NOT TO SCALE.
 *EX. SIDEWALK FROM STA 301+50 RT TO STA 303+27 RT TO REMAIN.
 **EX. SIDEWALK FROM STA 202+58 RT TO 205+44 RT TO REMAIN.
 ***SIDEWALK CURB FROM STA 200+84 RT TO STA 201+50 RT

PLOT SCALE: _____

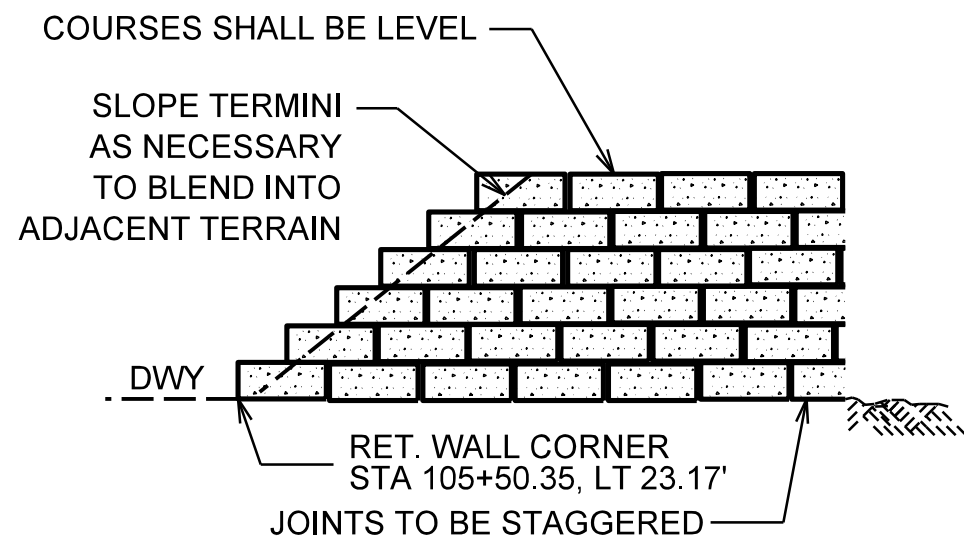
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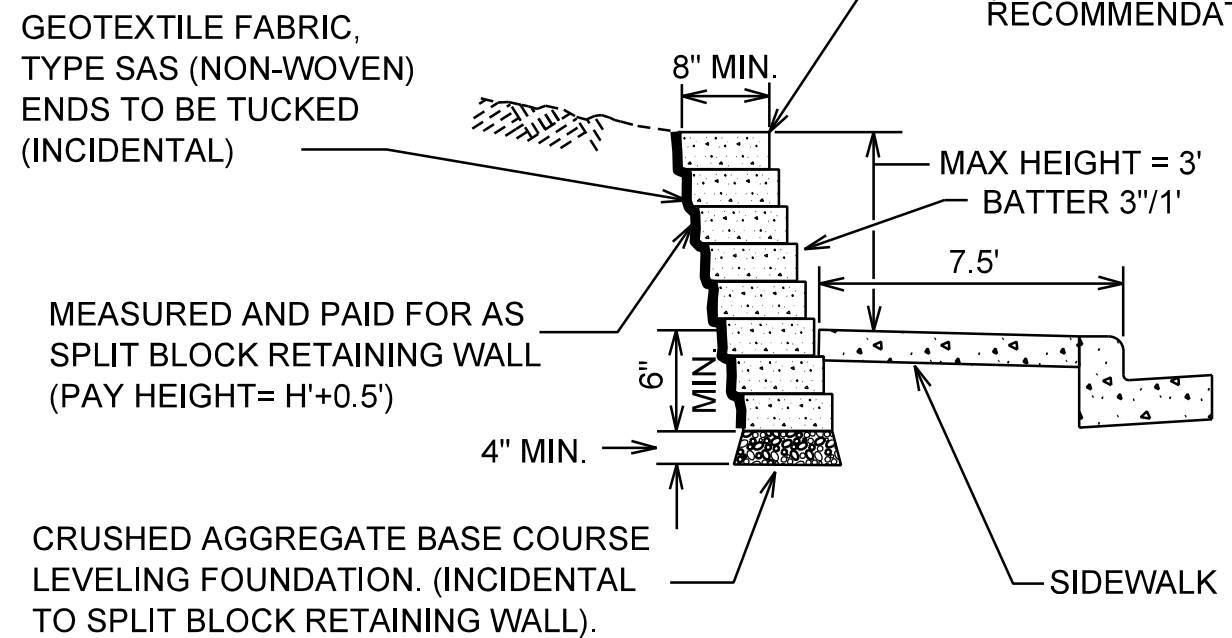
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SIDE VIEW
PROP. RET. WALL MATCH INTO EX. WALL



FRONT VIEW



SIDE VIEW

NOTE: BACKFILL BEHIND WALL WITH GRANULAR MATERIAL OR CRUSHED AGGREGATE BASE COURSE. (INCIDENTAL TO SPLIT BLOCK RETAINING WALL).

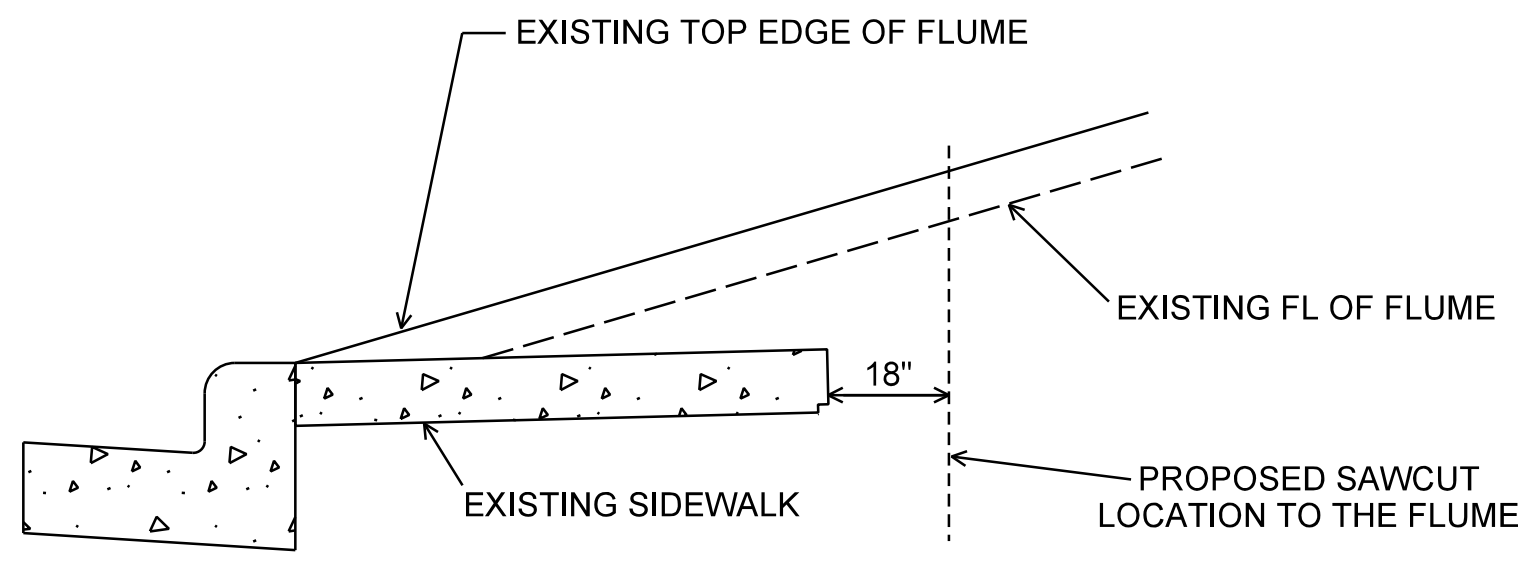
SPLIT BLOCK RETAINING WALL DETAIL

PLOT SCALE: _____

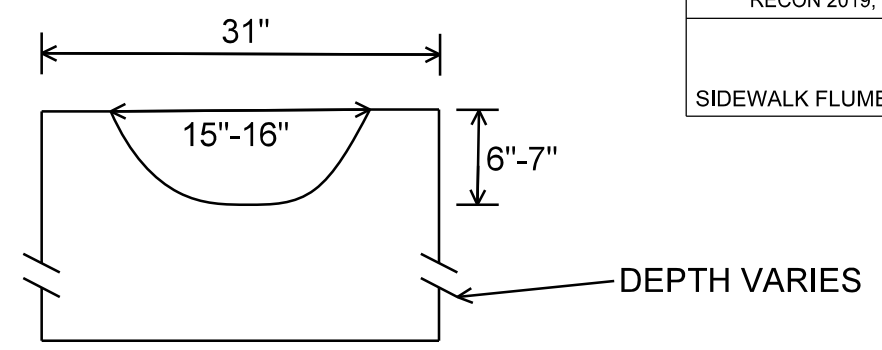
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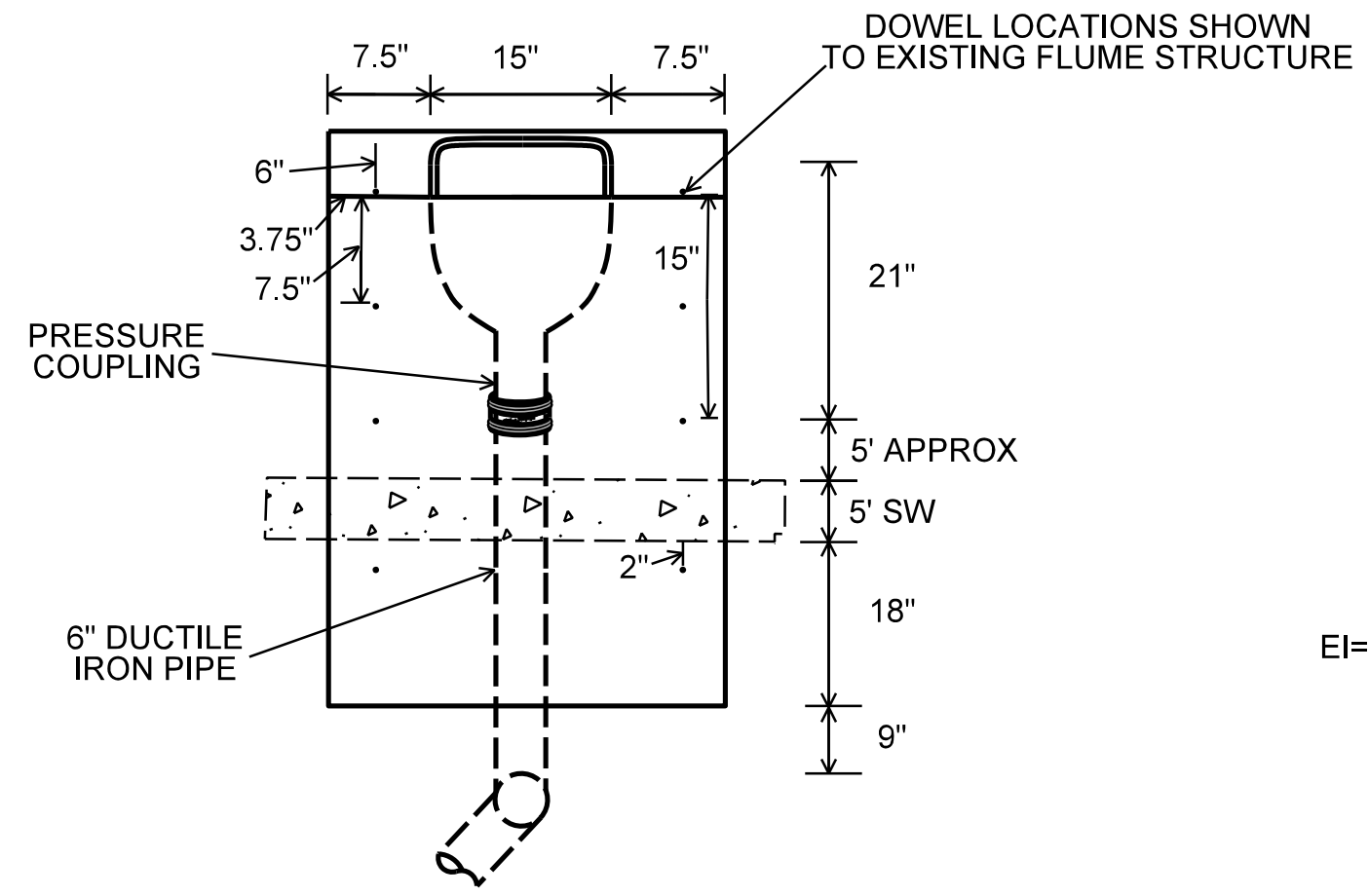
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



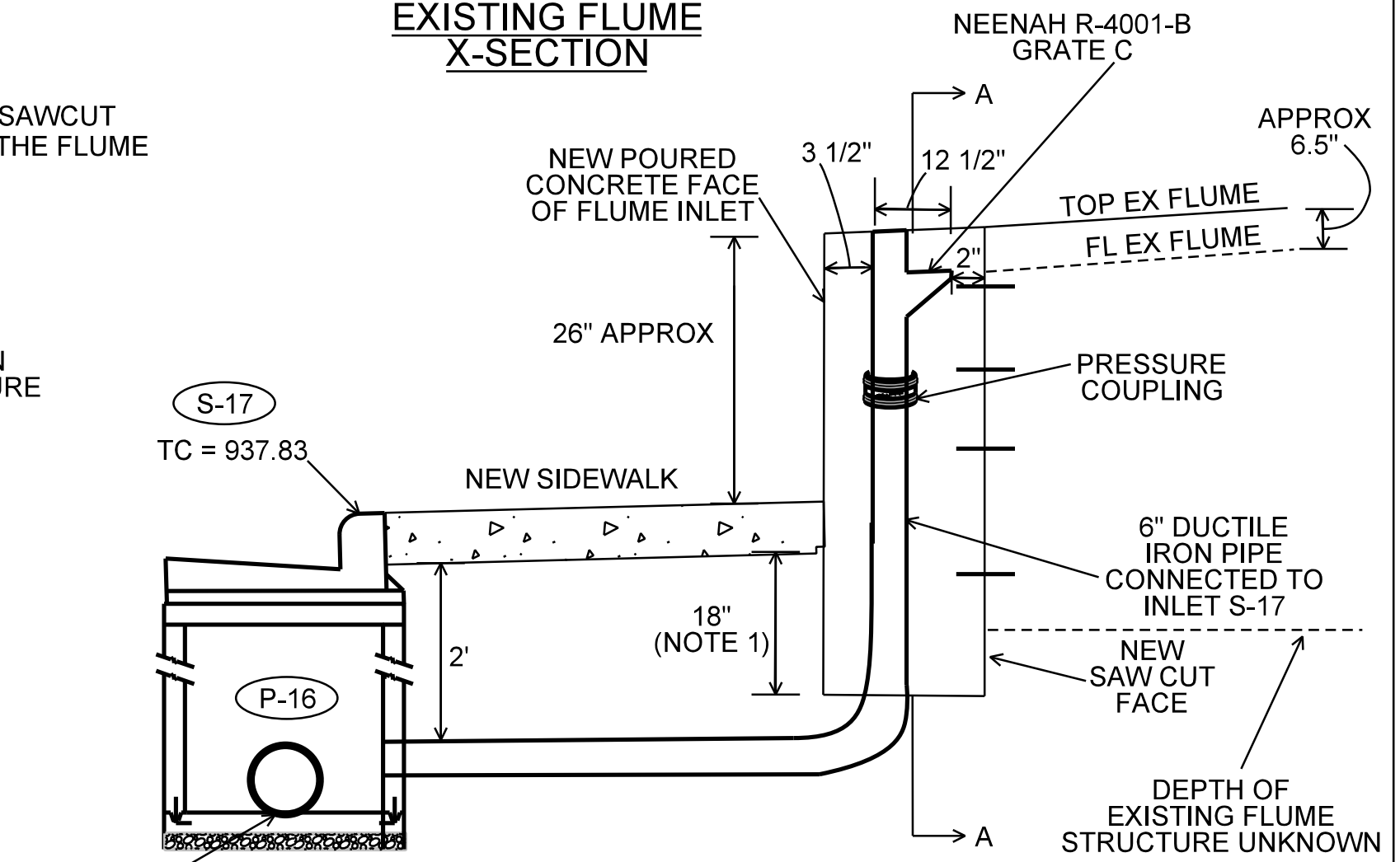
SAWCUT LOCATION



EXISTING FLUME X-SECTION



SECTION A-A

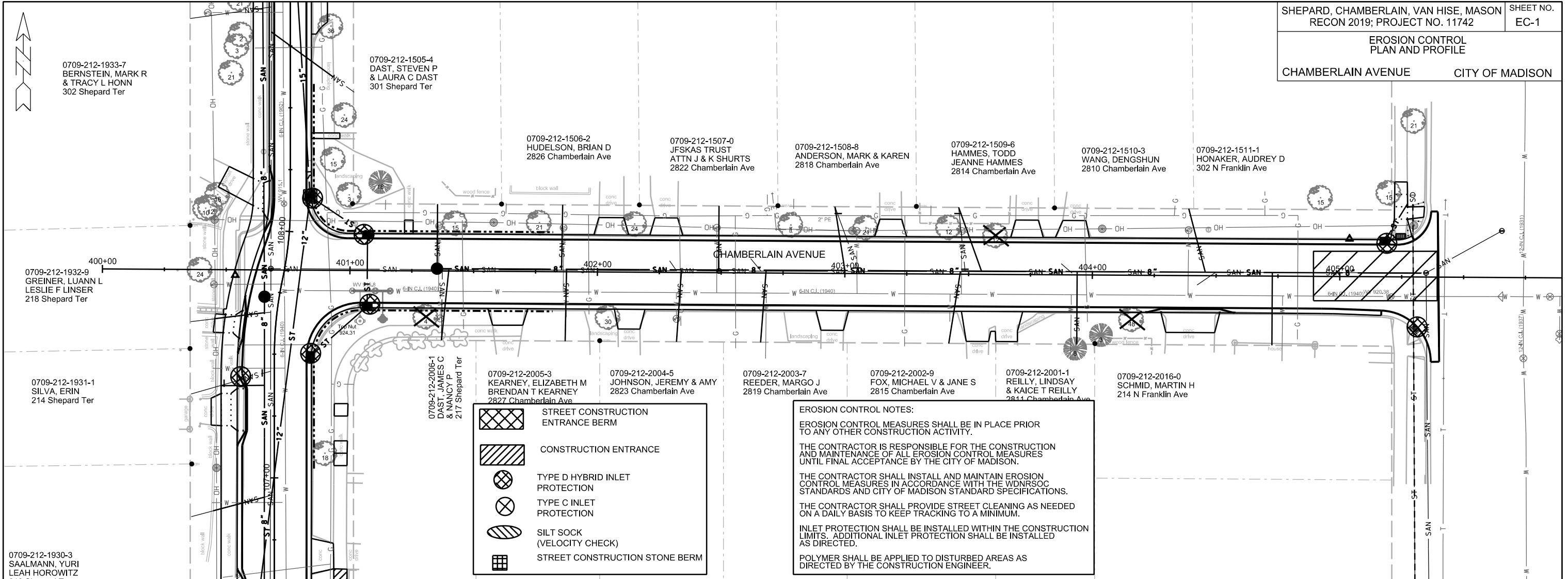


SIDE VIEW

**SIDEWALK FLUME / INLET
 NOT TO SCALE**

NOTE 1:
 THE NEW INLET / FLUME WALL SHALL EXTEND 18" BELOW THE BOTTOM OF ADJACENT SIDEWALK REGARDLESS OF THE DEPTH OF THE EXISTING FLUME THAT IS BEING REMOVED.

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 (VELOCITY CHECK)
- STREET CONSTRUCTION STONE BERM

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

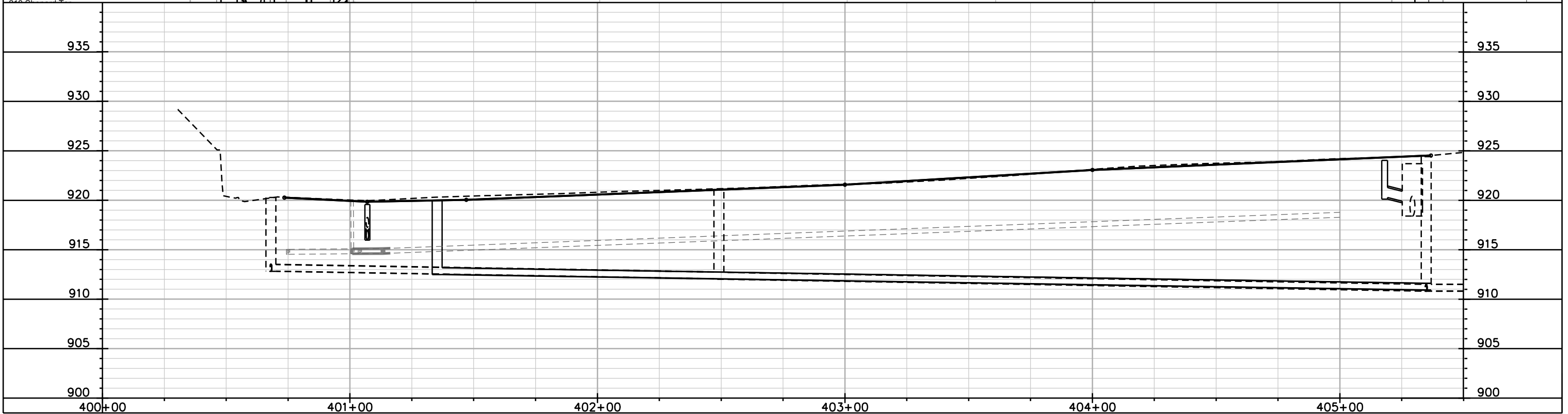
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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.

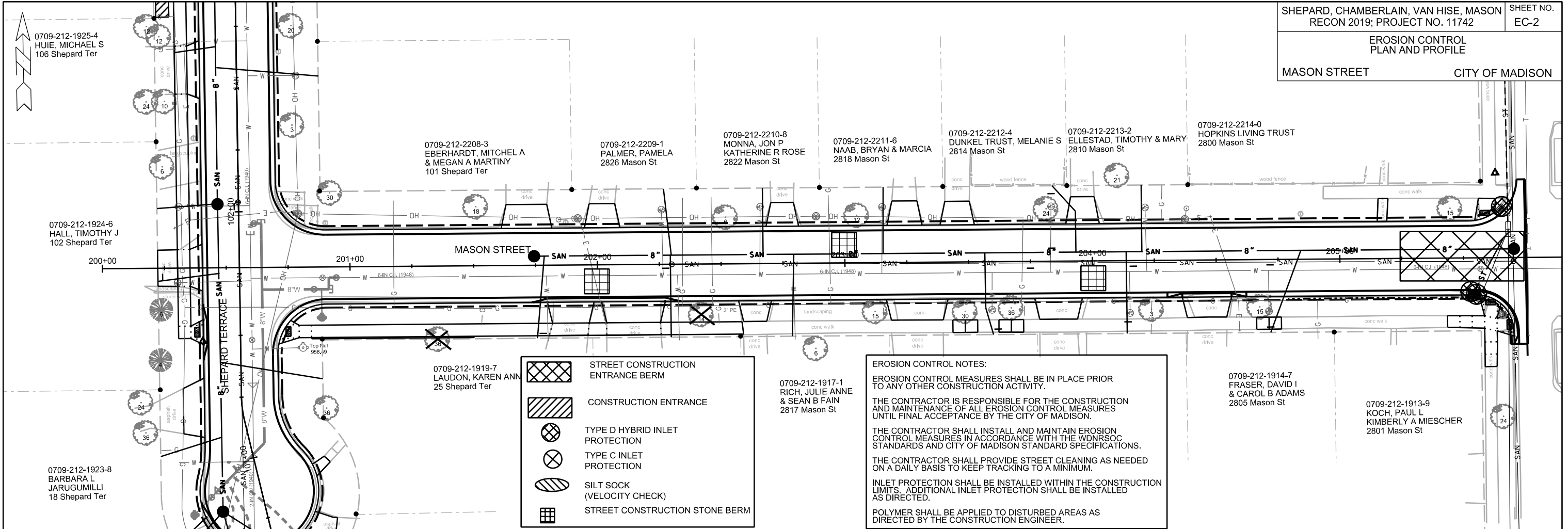


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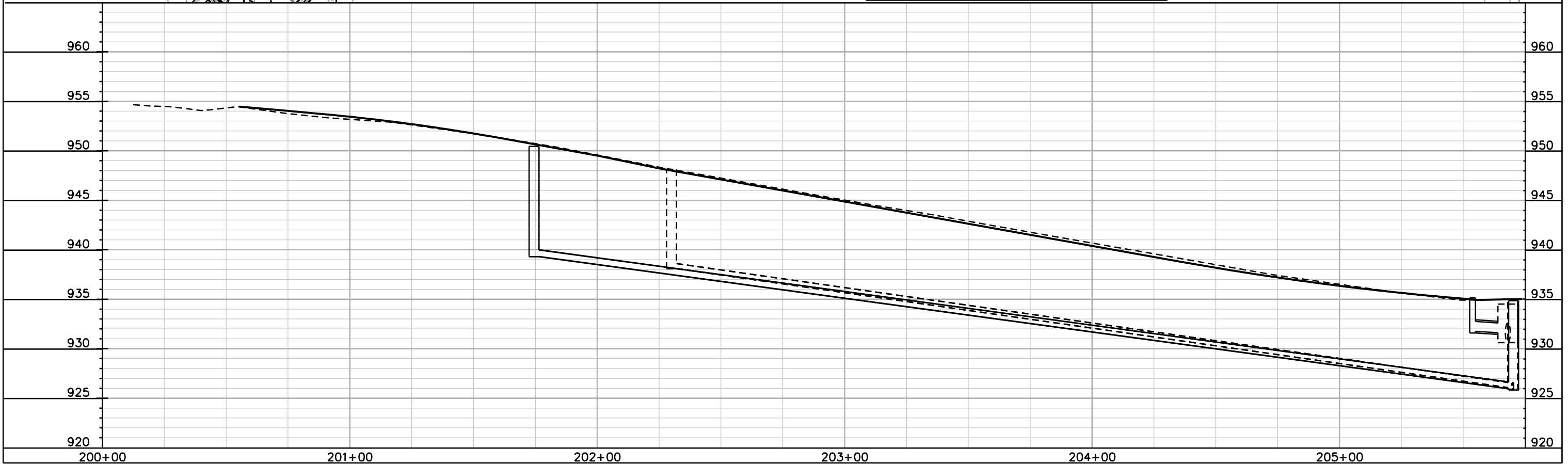
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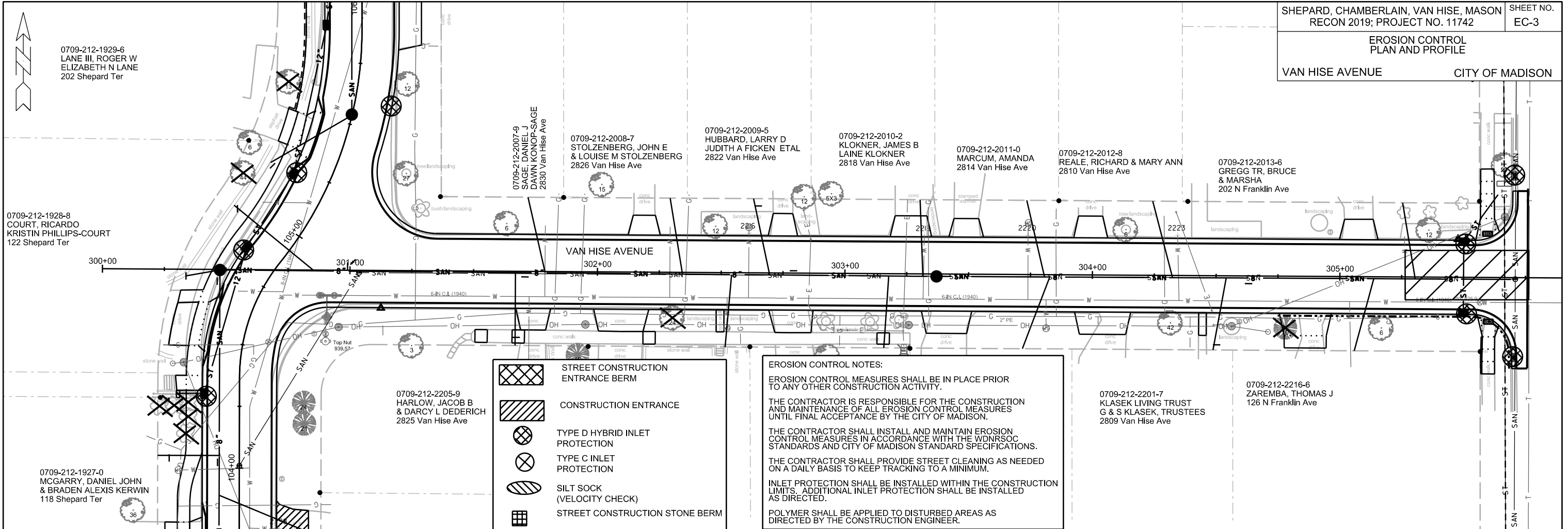
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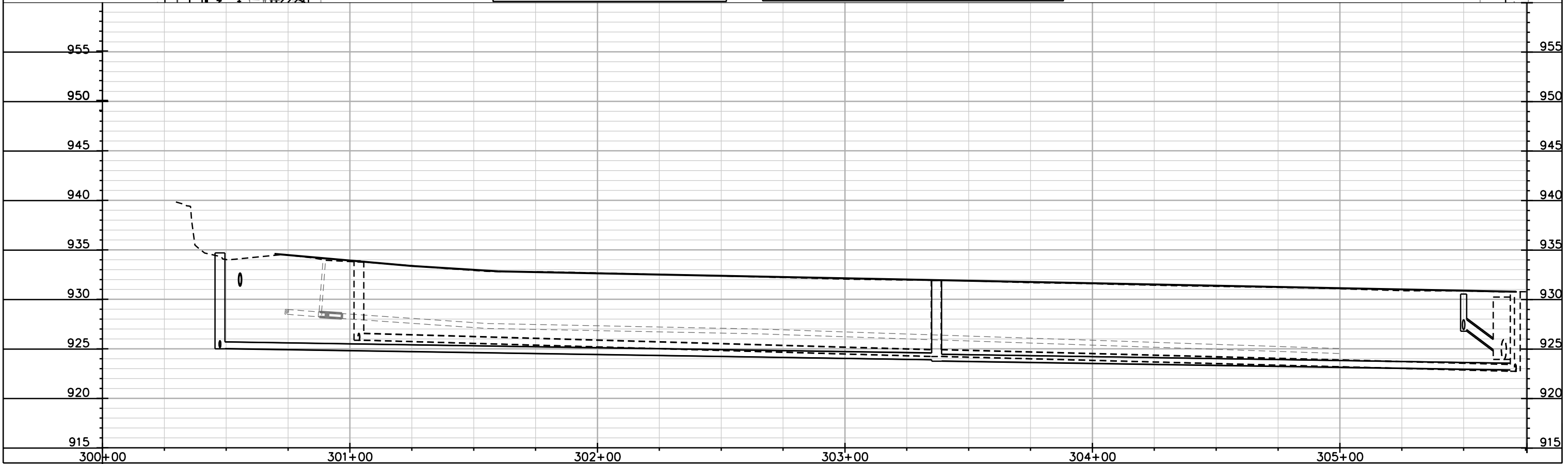
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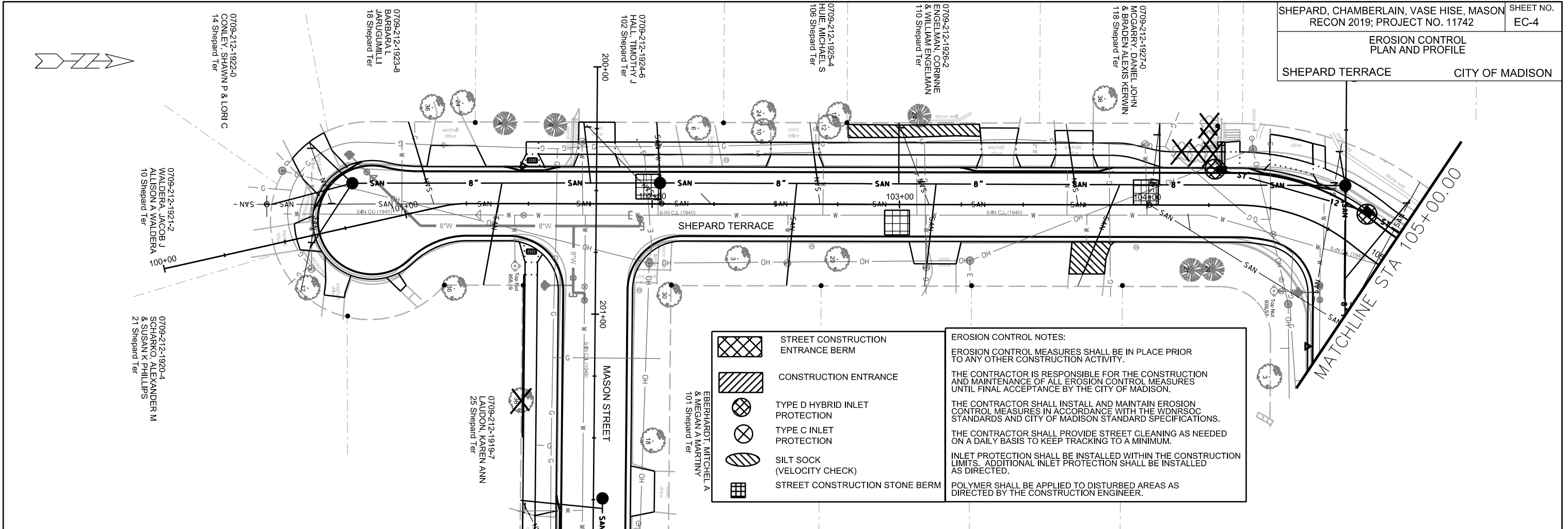
PLOT SCALE: _____







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EROSION CONTROL PLAN AND PROFILE
SHEPARD TERRACE CITY OF MADISON



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



0709-212-1929-6
LANE III, ROGER W
ELIZABETH N LANE
702 Shepard Ter

0709-212-1930-3
SAALMANN, YJRI
LEAH HOROWITZ
210 Shepard Ter

0709-212-1931-1
SILVA, ERIN
214 Shepard Ter

0709-212-1932-9
GREINER, LUANN L
LESLIE F LINSER
218 Shepard Ter

0709-212-1933-7
BERNSTEIN, MARK R
& TRACY L HONN
302 Shepard Ter

0709-212-1934-5
MACAULAY, STEWART
314 Shepard Ter

0709-212-1504-6

0709-212-2007-9
SAGE, DANIEL J
DAWN KONOP-SAGE
2830 Van Hise Ave

0709-212-2006-1
DAST, JAMES C
& NANCY P
217 Shepard Ter

0709-212-2827-0
KEARN, BREND
2827 C

	STREET CONSTRUCTION ENTRANCE BERM
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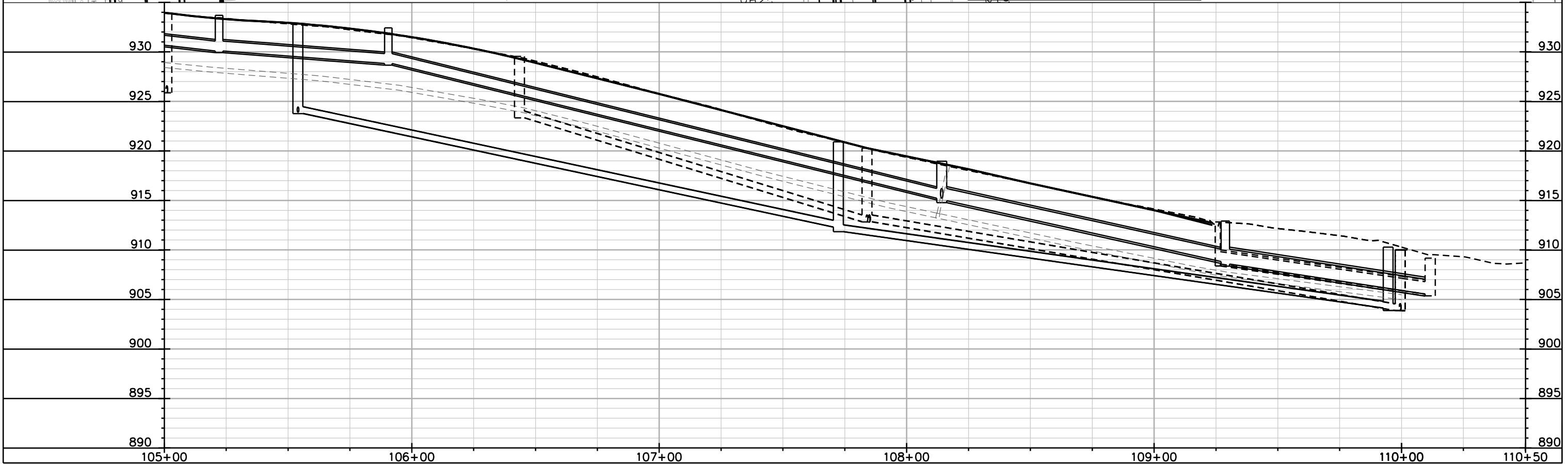
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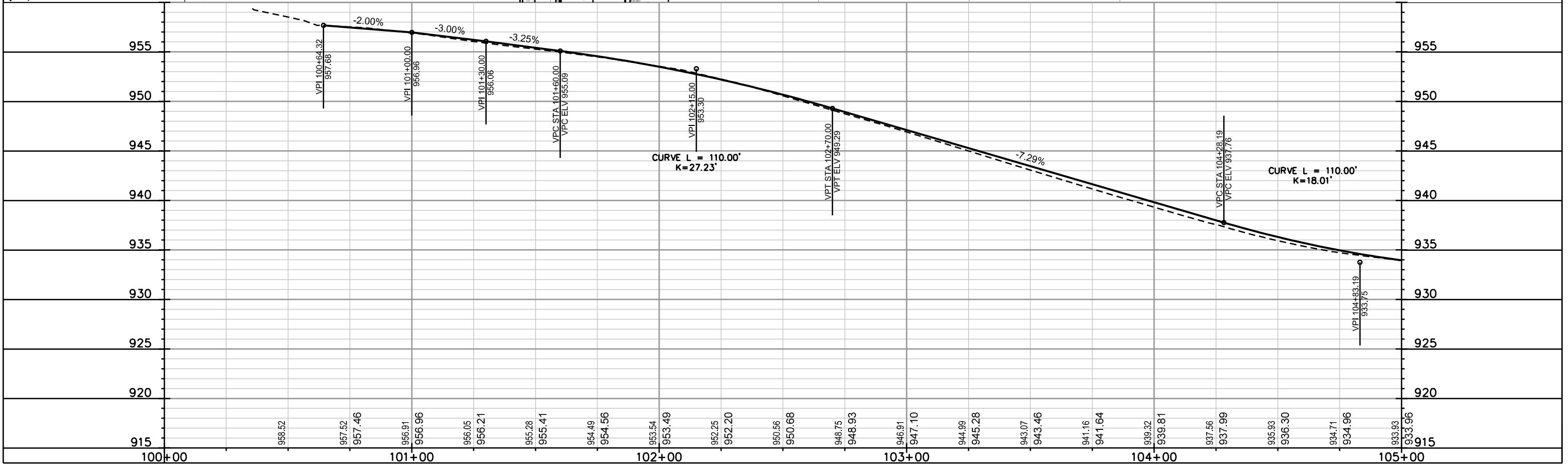
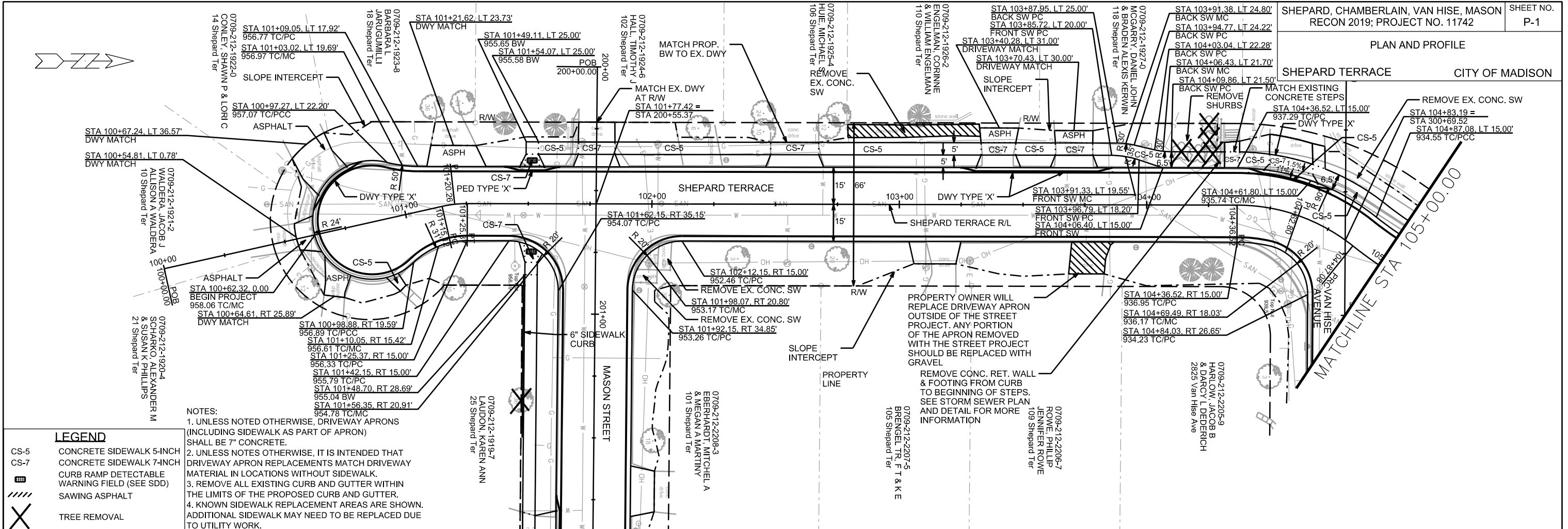
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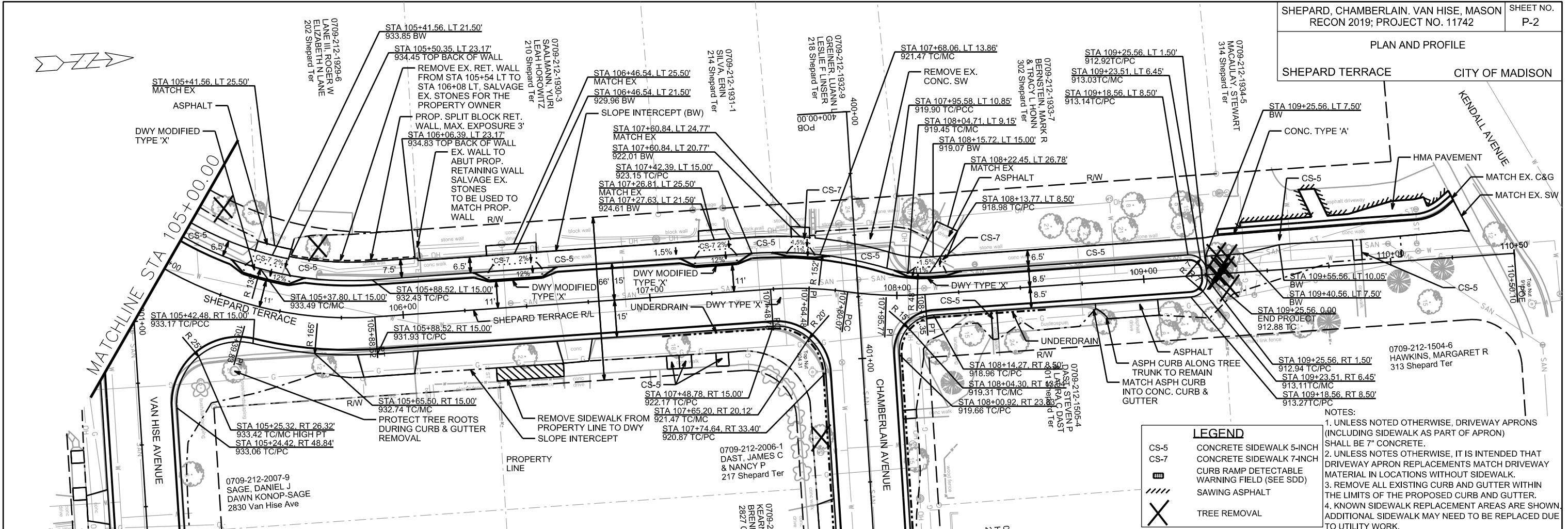
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE



PLAN AND PROFILE

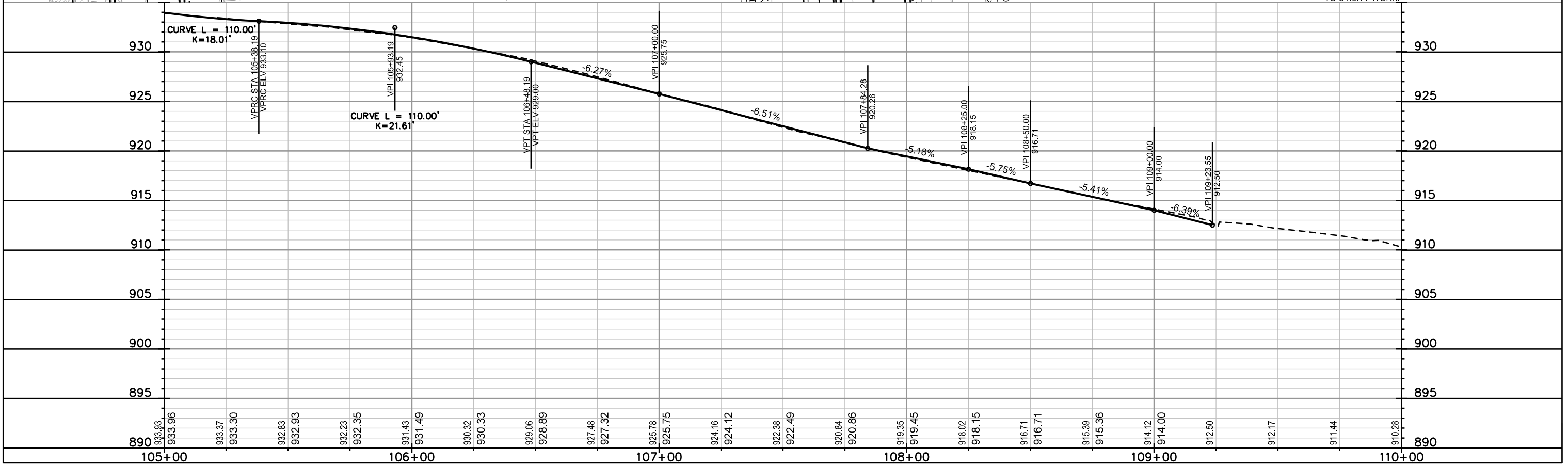


LEGEND

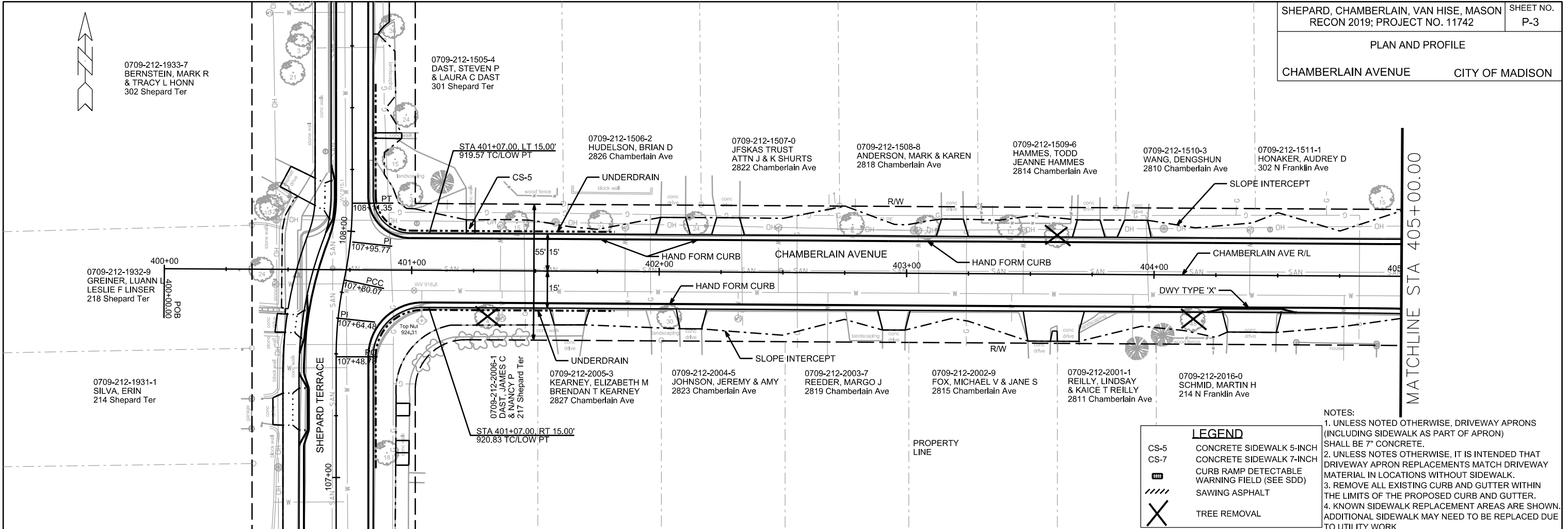
- CS-5 CONCRETE SIDEWALK 5-INCH
- CS-7 CONCRETE SIDEWALK 7-INCH
- CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
- SAWING ASPHALT
- TREE REMOVAL

NOTES:

1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS (INCLUDING SIDEWALK AS PART OF APRON) SHALL BE 7" CONCRETE.
2. UNLESS NOTES OTHERWISE, IT IS INTENDED THAT DRIVEWAY APRON REPLACEMENTS MATCH DRIVEWAY MATERIAL IN LOCATIONS WITHOUT SIDEWALK.
3. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.
4. KNOWN SIDEWALK REPLACEMENT AREAS ARE SHOWN. ADDITIONAL SIDEWALK MAY NEED TO BE REPLACED DUE TO UTILITY WORK.



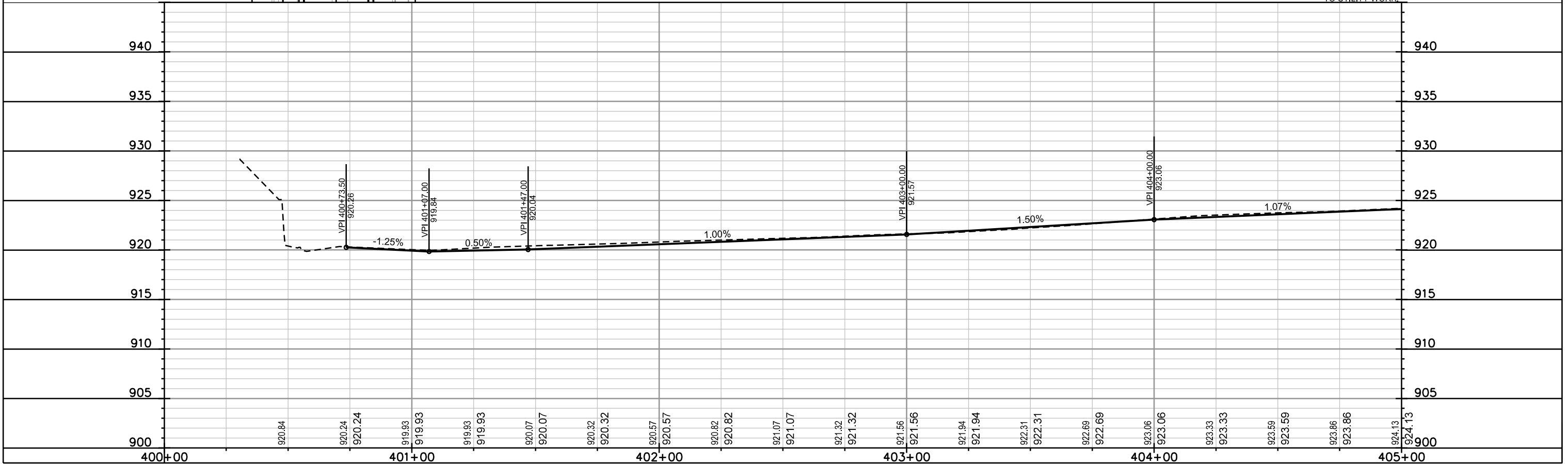
PLOT SCALE: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION



LEGEND

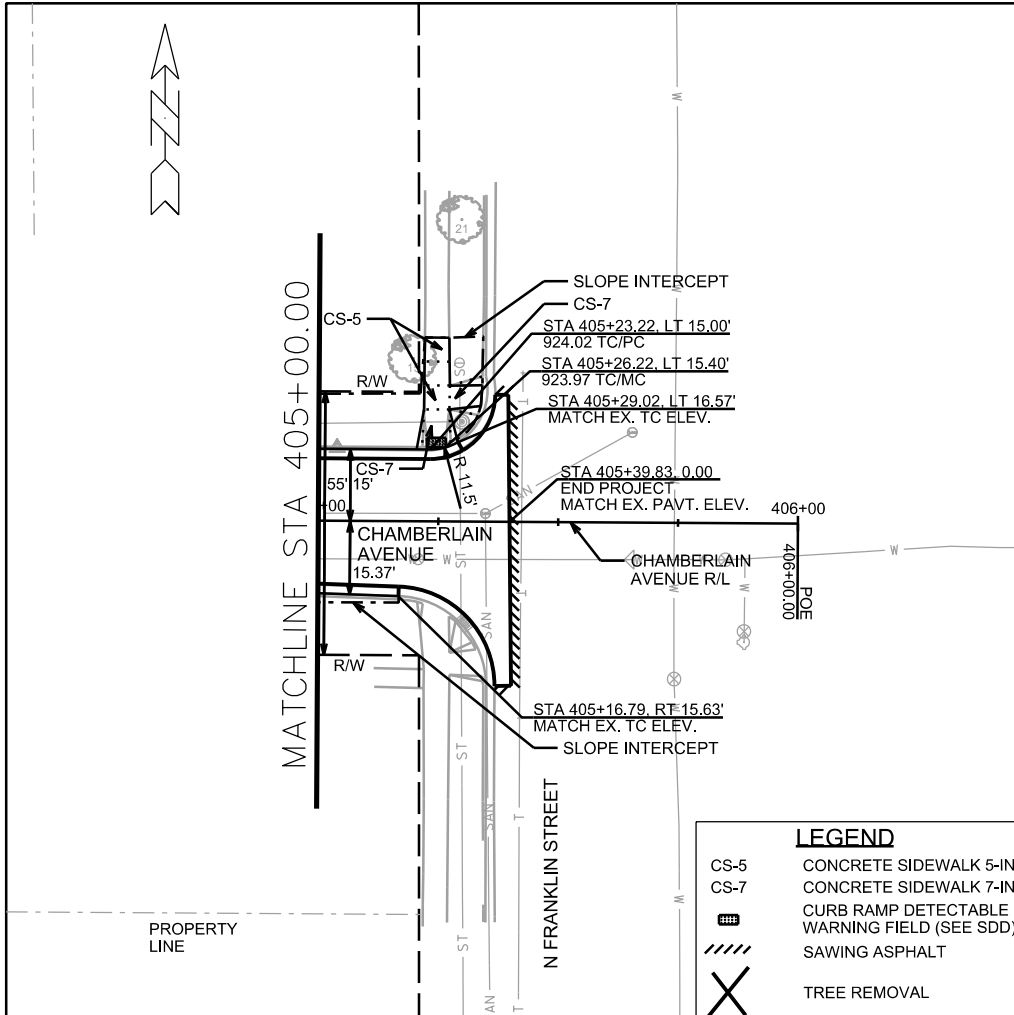
CS-5	CONCRETE SIDEWALK 5-INCH
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- NOTES:**
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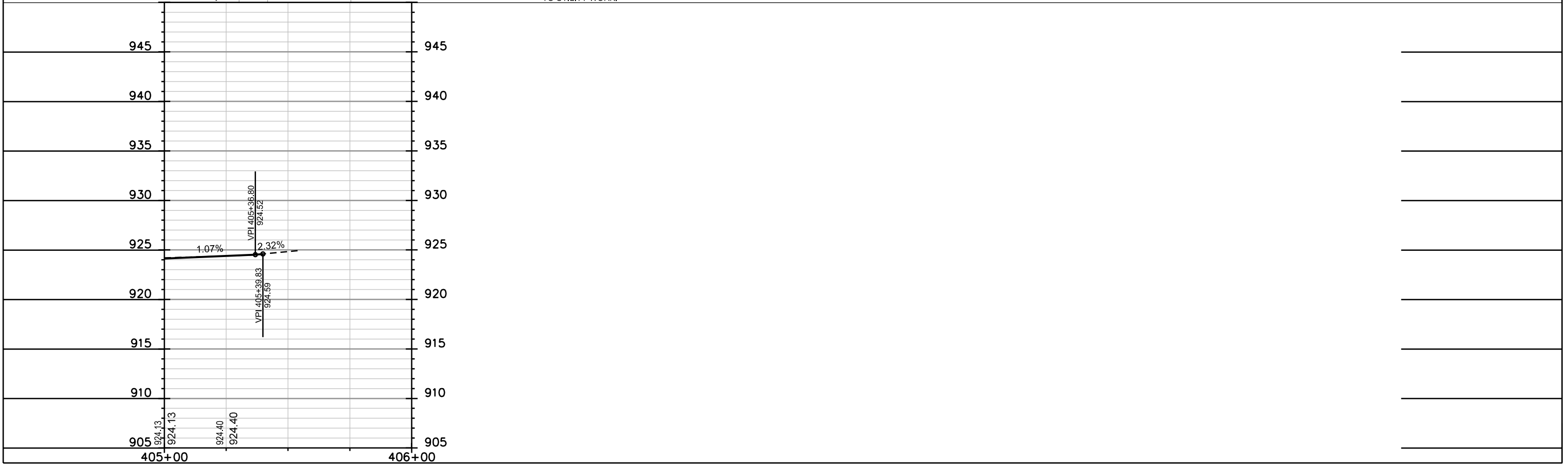
PLAN AND PROFILE
 CHAMBERLAIN AVENUE CITY OF MADISON



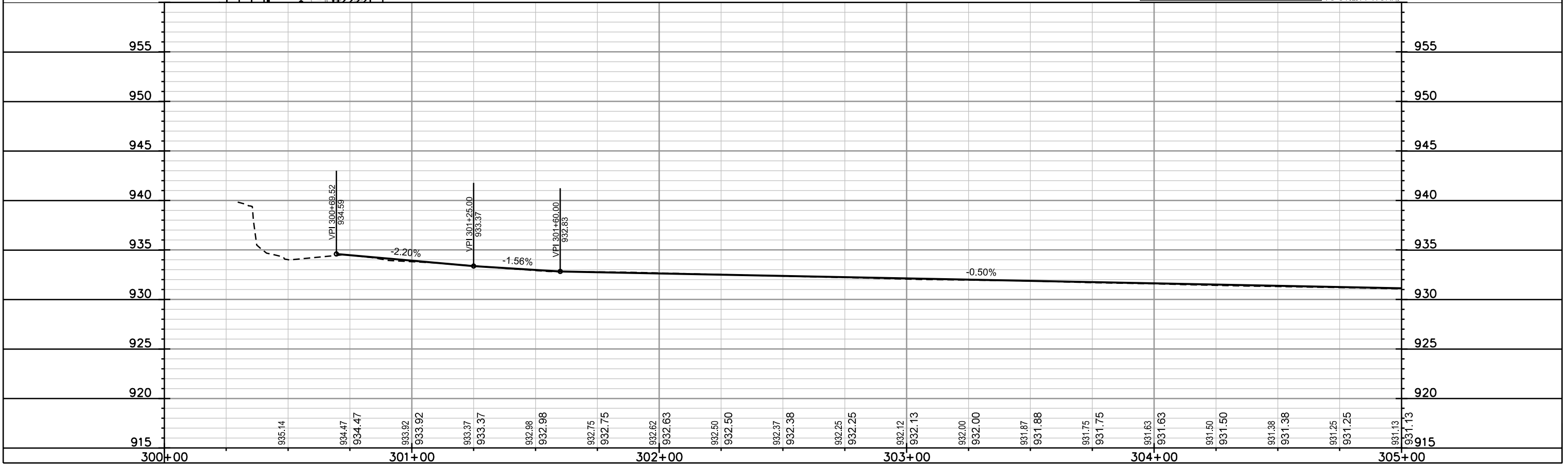
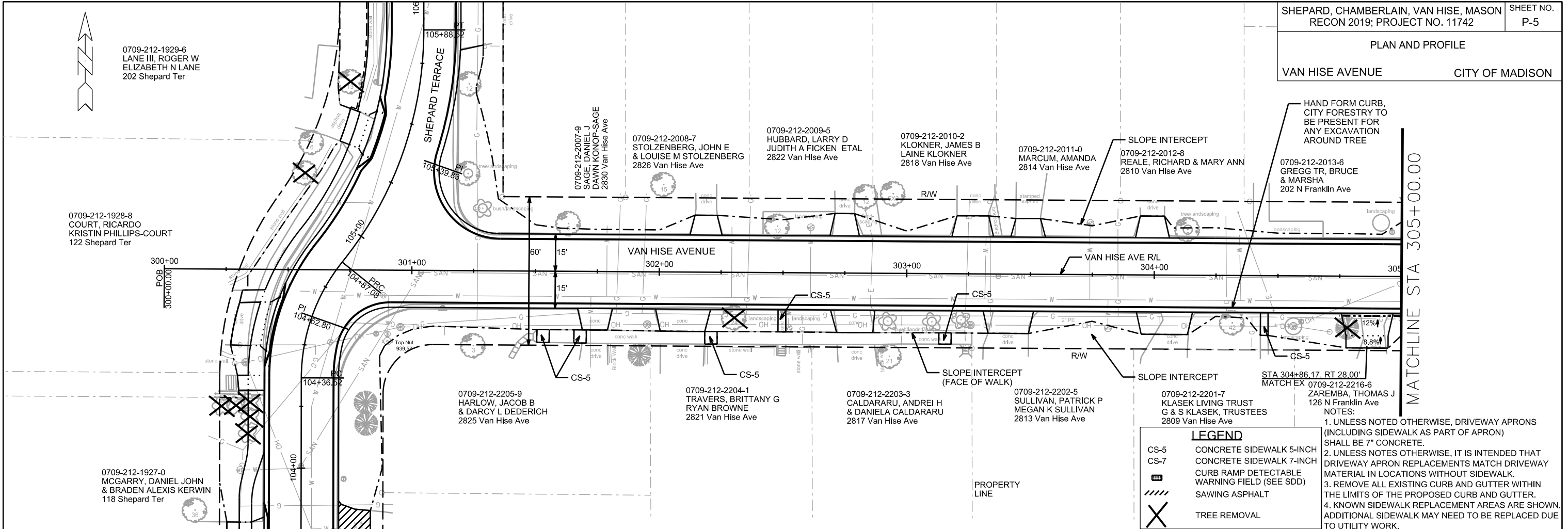
LEGEND

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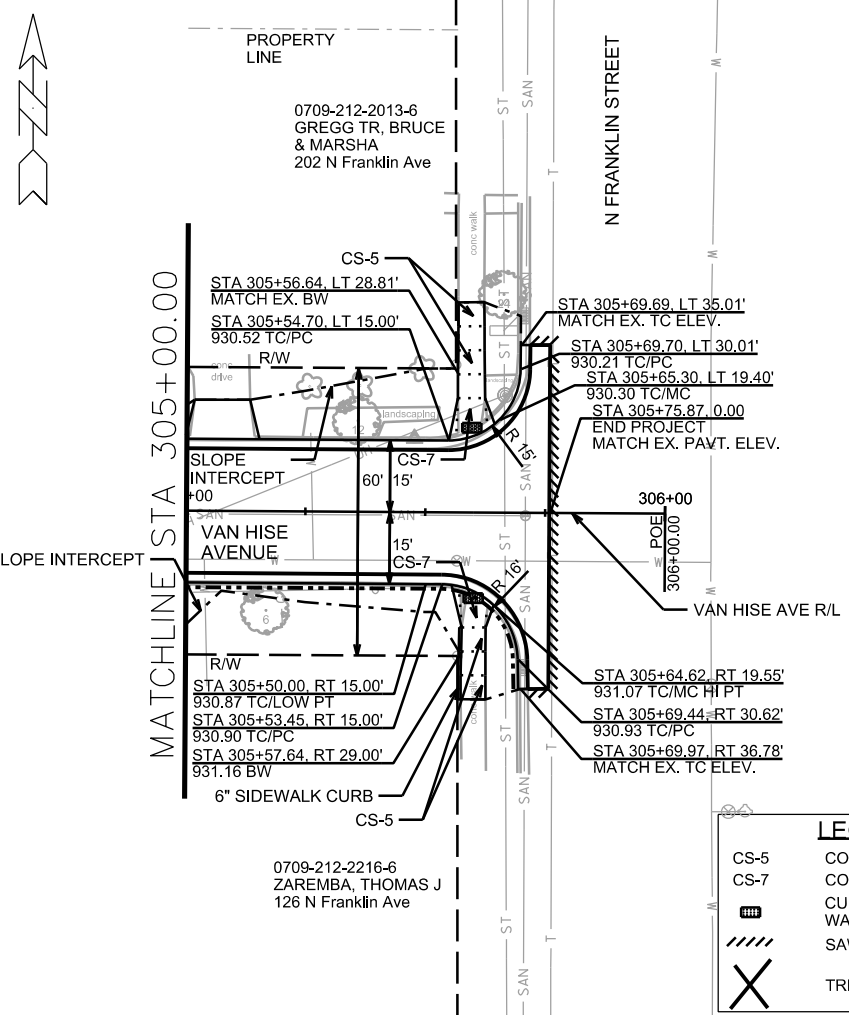
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 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



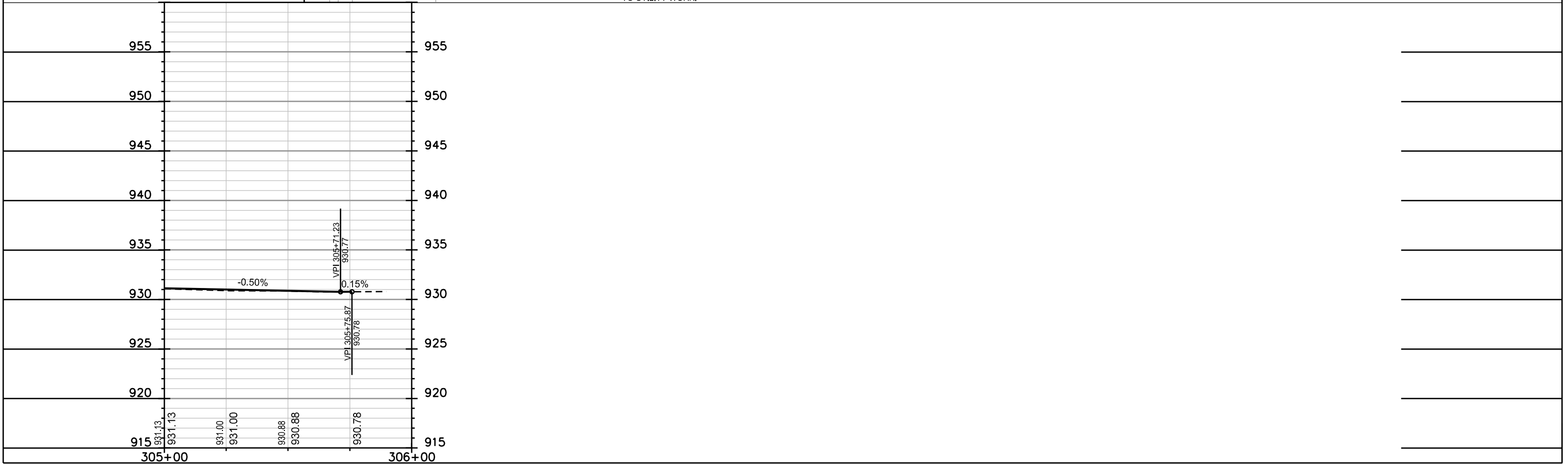
PLAN AND PROFILE
 VAN HISE AVENUE CITY OF MADISON

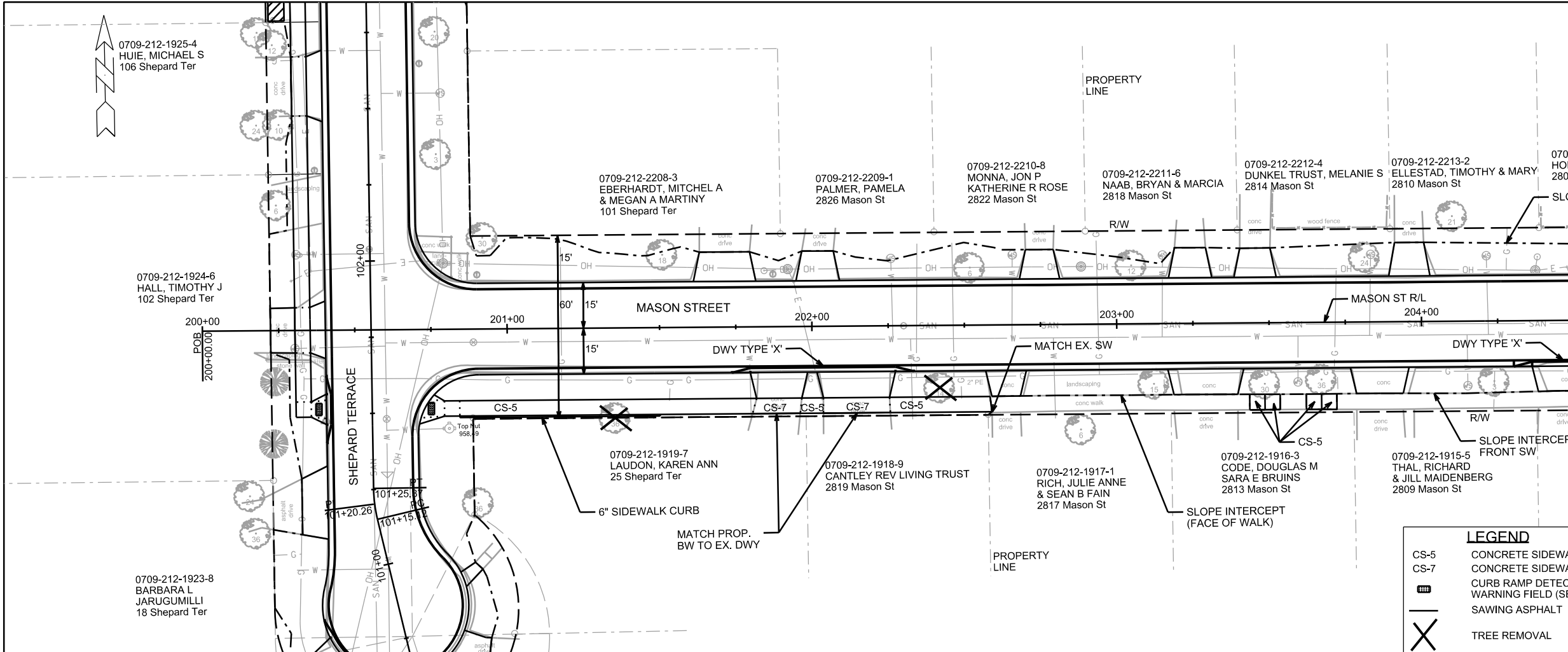


LEGEND

CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
[Symbol]	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
[Symbol]	SAWING ASPHALT
[Symbol]	TREE REMOVAL

- NOTES:**
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS (INCLUDING SIDEWALK AS PART OF APRON) SHALL BE 7" CONCRETE.
 2. UNLESS NOTES OTHERWISE, IT IS INTENDED THAT DRIVEWAY APRON REPLACEMENTS MATCH DRIVEWAY MATERIAL IN LOCATIONS WITHOUT SIDEWALK.
 3. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.
 4. KNOWN SIDEWALK REPLACEMENT AREAS ARE SHOWN. ADDITIONAL SIDEWALK MAY NEED TO BE REPLACED DUE TO UTILITY WORK.

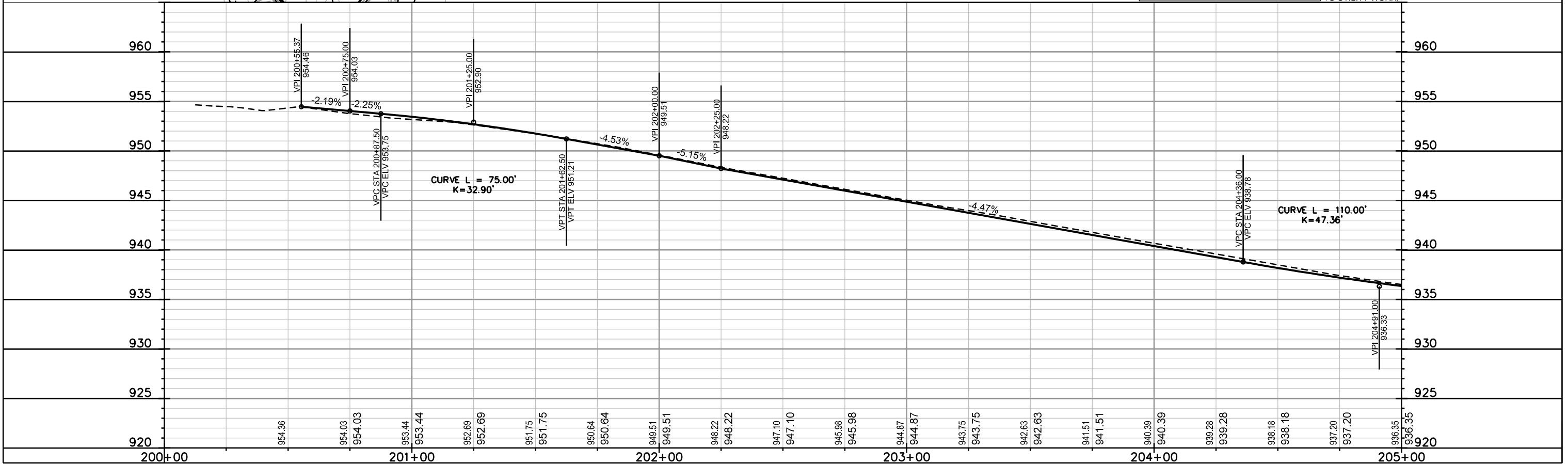




LEGEND

- CS-5 CONCRETE SIDEWALK 5-INCH
- CS-7 CONCRETE SIDEWALK 7-INCH
- CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
- SAWING ASPHALT
- TREE REMOVAL

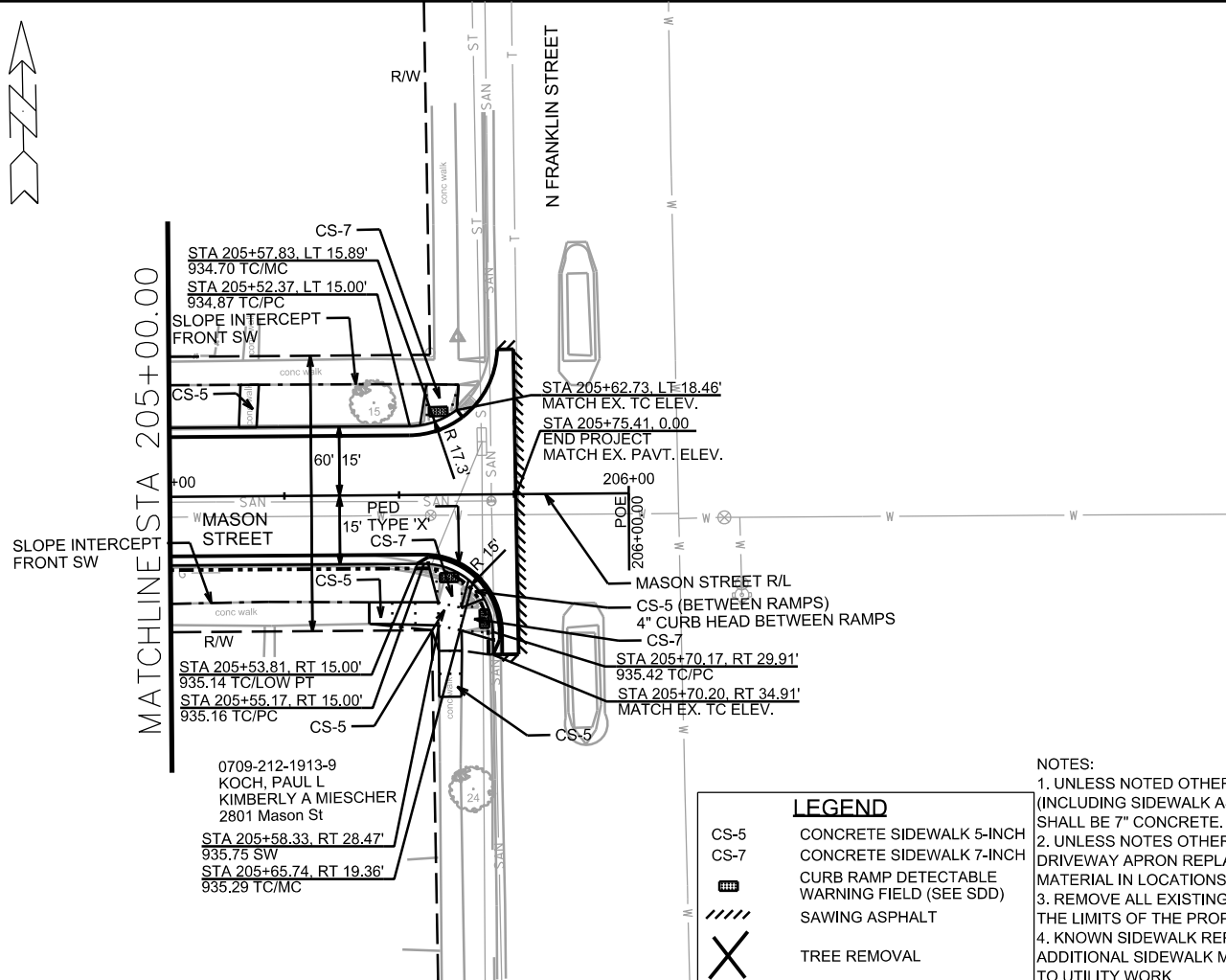
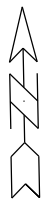
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PLAN AND PROFILE

MASON STREET

CITY OF MADISON

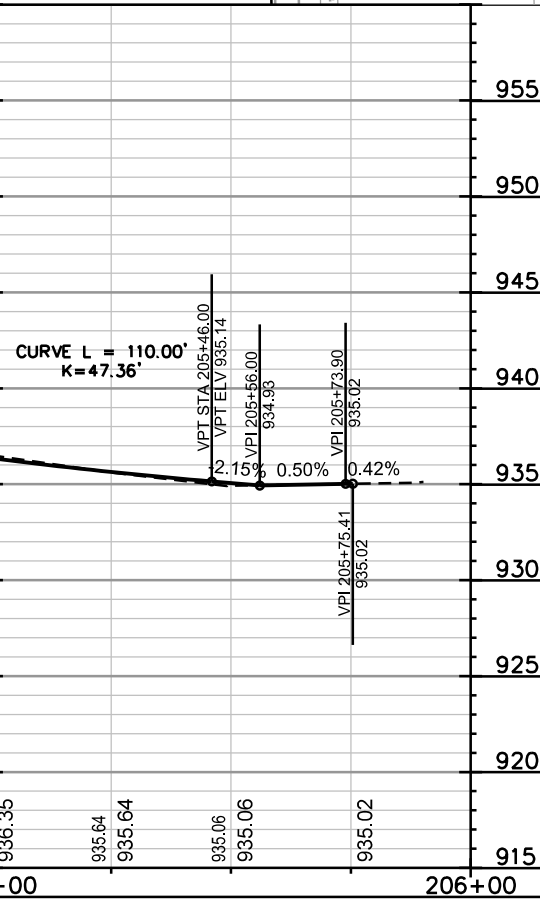


MATCHLINE STA 205+00.00

LEGEND

CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
	SAWING ASPHALT
	TREE REMOVAL

- NOTES:**
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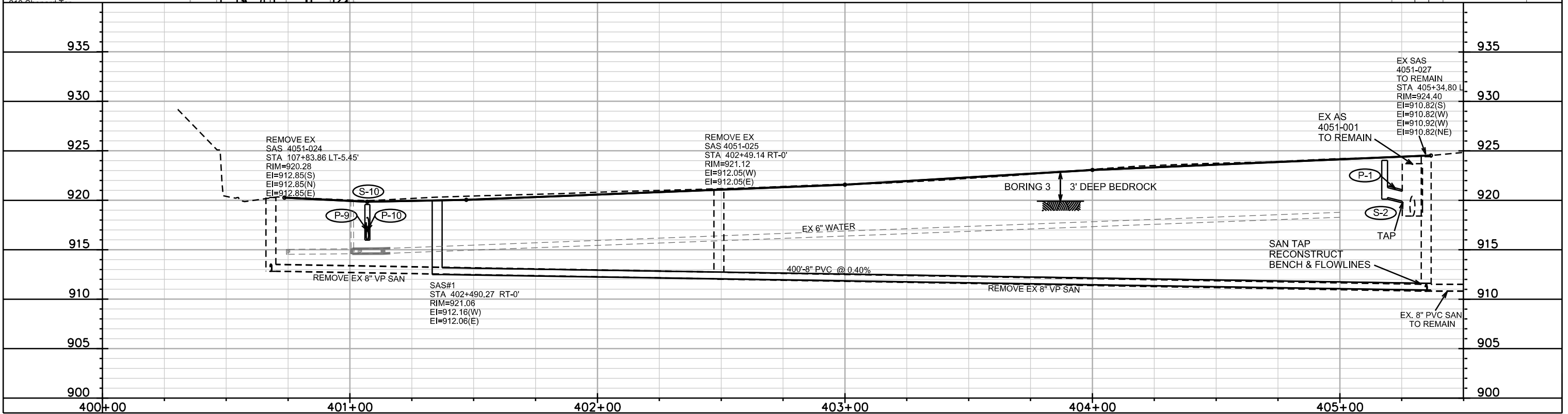
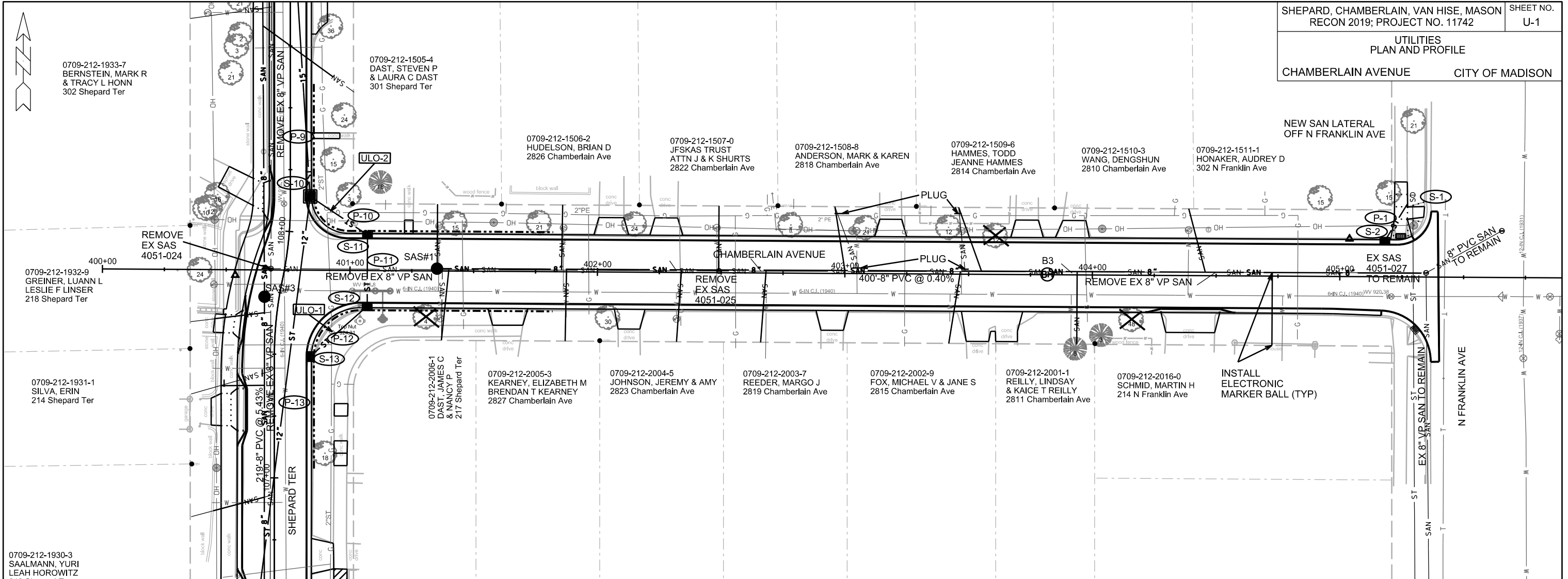


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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

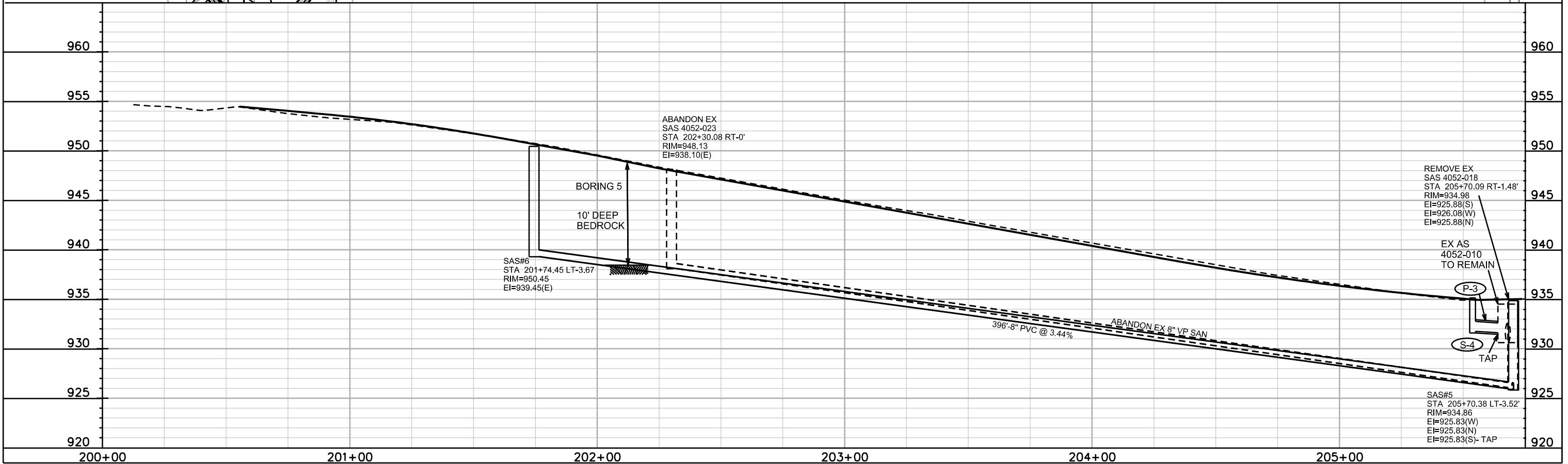
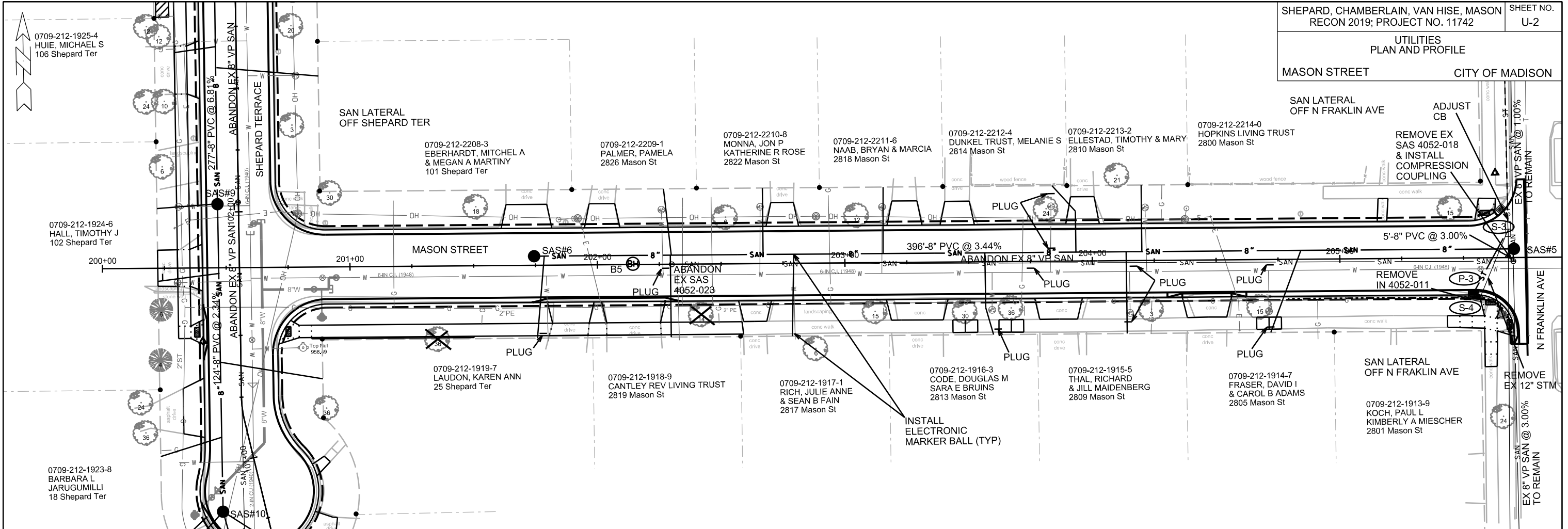


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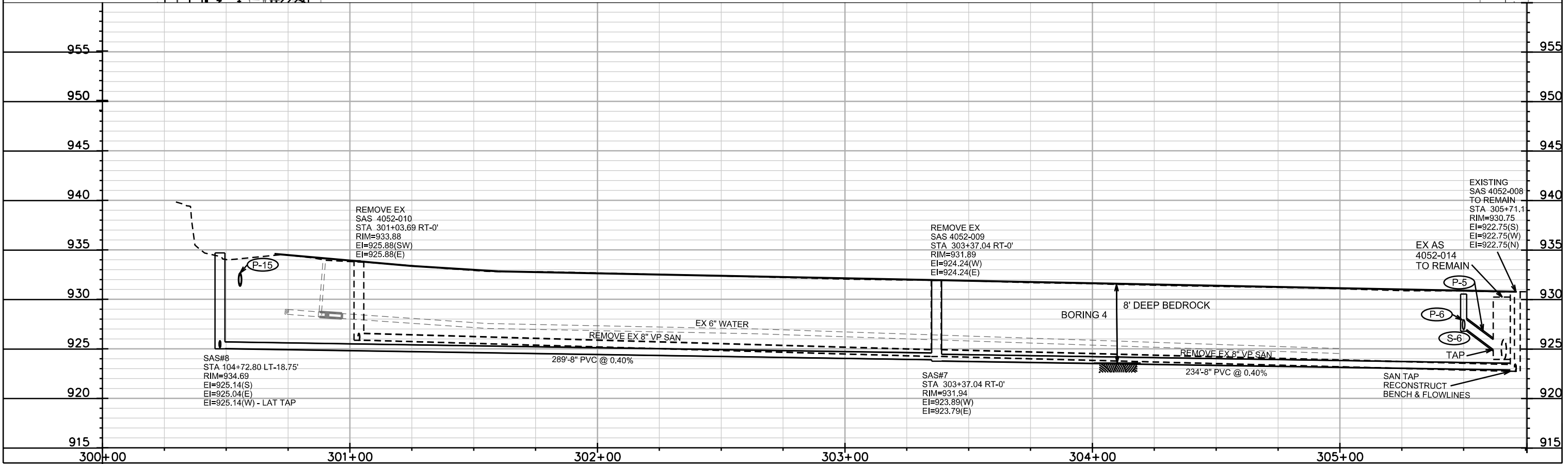
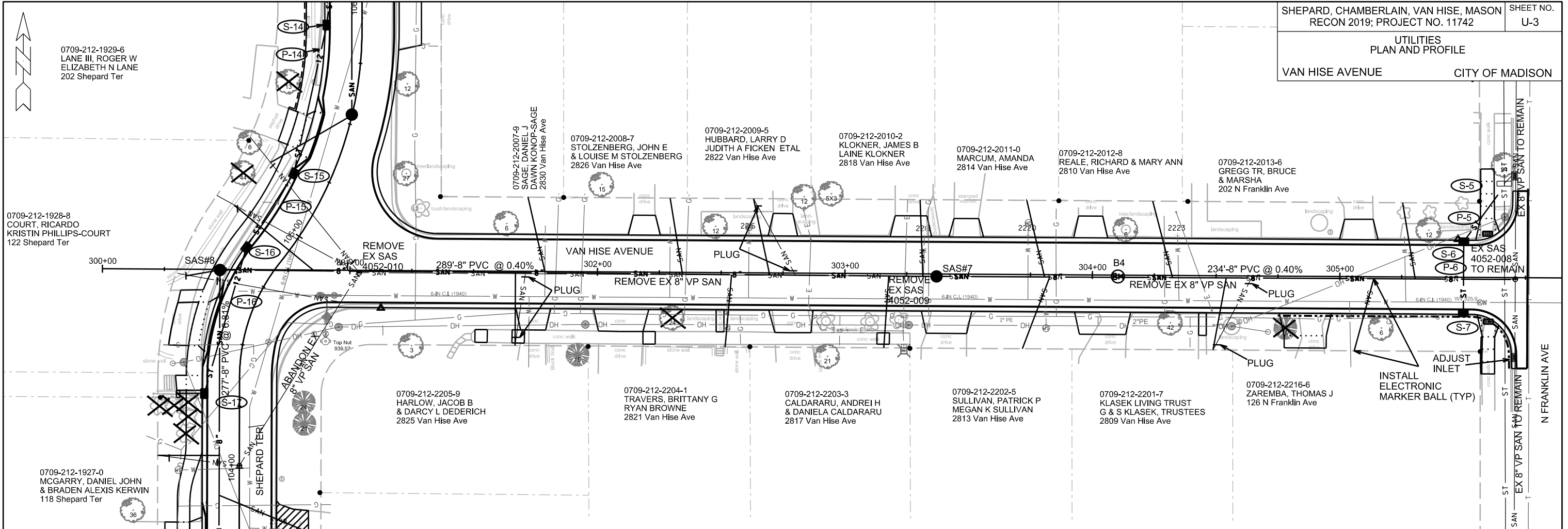
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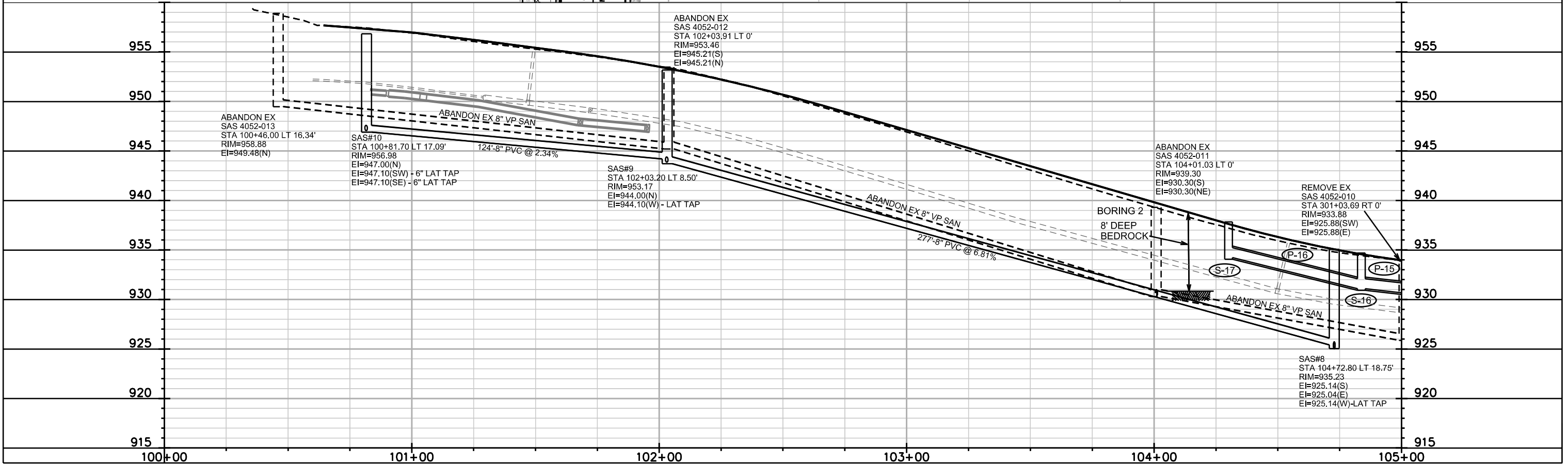
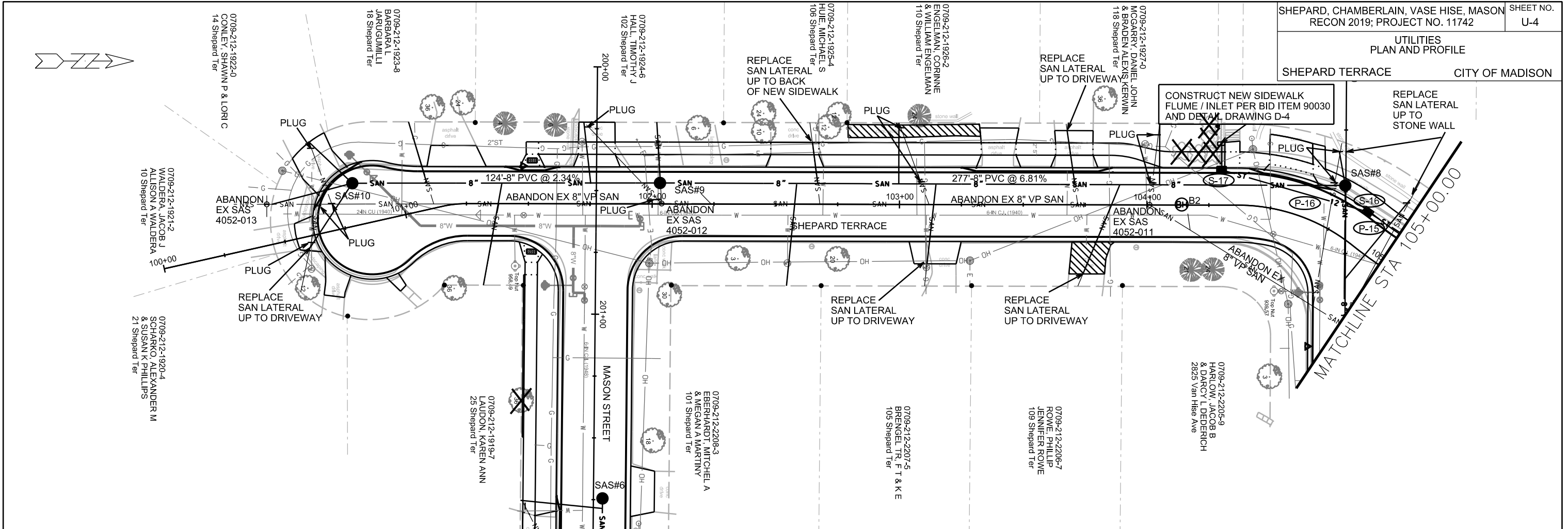
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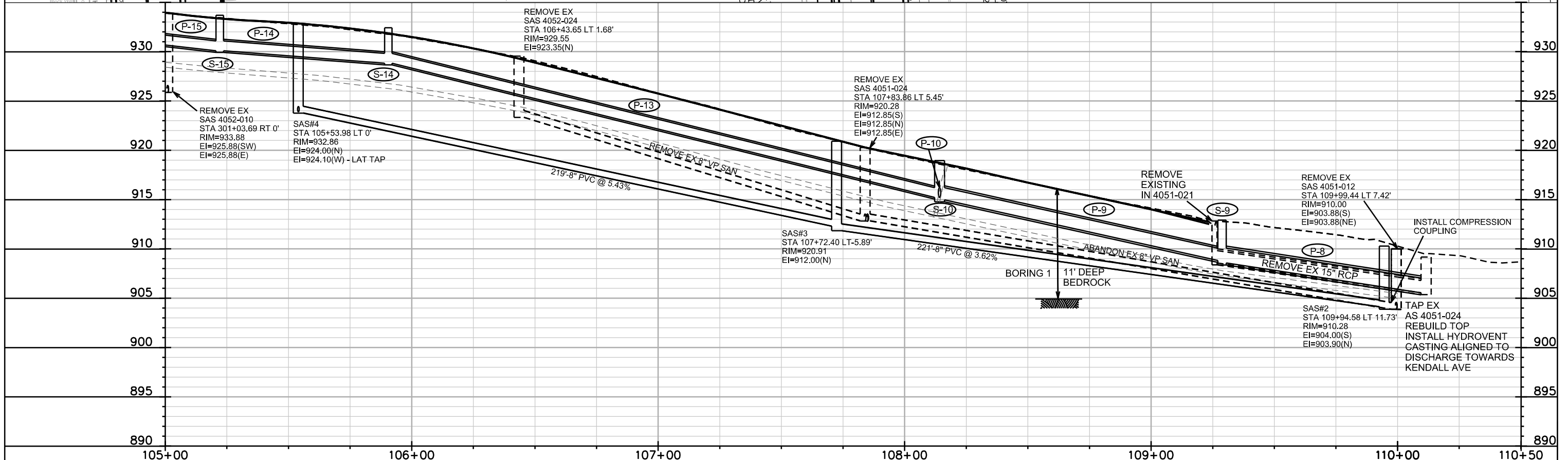
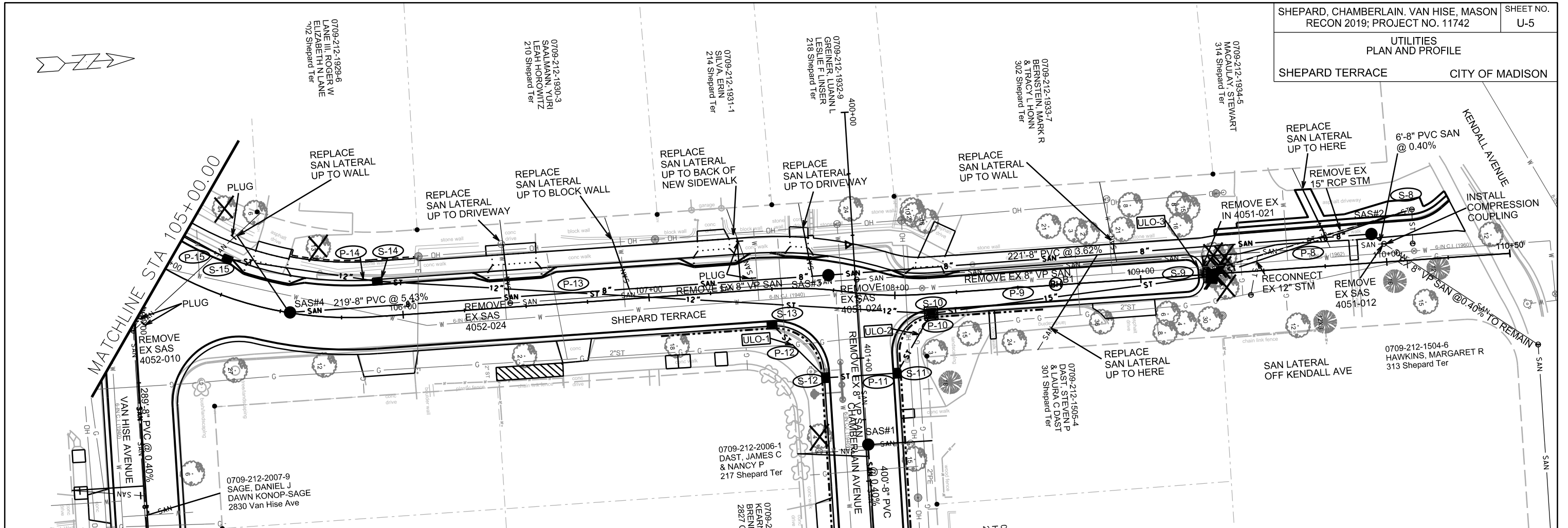
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES
PLAN AND PROFILE
SHEPARD TERRACE CITY OF MADISON



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

SHEPARD, CHAMBERLAIN, VAN HISE, MASON PROJECT NO. 11742	SHEET NO. U-6
SANITARY SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
CHAMBERLAIN AVE						
SAS#1	401+35.25	CL	919.98	912.52	7.46	-
MASON ST						
SAS#5	205+70.38	LT-3.52	934.86	925.83	9.03	-
SAS#6	201+74.45	LT-3.67	950.45	939.45	11.00	-
SHEPARD TERRACE						
SAS#2	109+94.58	LT-11.73	910.28	903.90	6.38	-
SAS#3	107+72.40	LT-5.89	920.91	912.00	8.91	-
SAS#4	105+53.98	CL	932.86	924.00	8.86	-
SAS#8	104+72.80	LT-18.75	935.23	925.04	10.19	-
SAS#9	102+03.20	LT-8.50	953.17	944.00	9.17	-
SAS#10	100+81.70	LT-17.09	956.98	947.00	9.98	-
VAN HISE AVE						
SAS#7	303+37.04	CL	931.94	923.79	8.15	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
CHAMBERLAIN AVE								
EX SAS 4051-027	SAS#1	910.92	912.52	400	0.40%	8"	SDR-35	-
MASON ST								
SAS #5	SAS #6	925.83	939.45	396	3.44%	8"	SDR-35	-
SAS #5	EX SAS 4052-018	925.83	925.98	5	3.00%	8"	SDR-35	INSTALL COMPRESSION COUPLING
SHEPARD TERRACE								
EX SAS 4051-012	SAS#2	903.88	903.90	6	0.40%	8"	SDR-35	INSTALL COMPRESSION COUPLING
SAS #2	SAS #3	904.00	912.00	221	3.62%	8"	SDR-35	-
SAS#3	SAS#4	912.10	924.00	219	5.43%	8"	SDR-35	-
SAS#8	SAS#9	925.14	944.00	277	6.81%	8"	SDR-35	-
SAS#9	SAS#10	944.10	947.00	124	2.34%	8"	SDR-35	-
VAN HISE AVE								
EX SAS 4052-008	SAS#7	922.85	923.79	234	0.40%	8"	SDR-35	-
SAS#7	SAS#8	923.89	925.04	289	0.40%	8"	SDR-35	-

REMOVE SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
CHAMBERLAIN AVE				
4051-025	402+49.14	CL	48"	-
MASON ST				
4052-018	205+70.09	RT-1.48	48"	-
SHEPARD TERRACE				
4051-012	109+99.42	LT-7.42	48"	INSTALL COMPRESSION COUPLING
4051-024	107+83.86	LT-5.45	48"	-
4052-024	106+43.65	LT-1.68	48"	-
VAN HISE AVE				
4052-010	301+03.69	CL	48"	-
4052-009	303+37.04	CL	48"	-

REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	PAY LGTH (FT)	NOTES
CHAMBERLAIN AVE							
4051-027	4051-025	286	8"	VP	N	0	-
4051-025	4051-024	181	8"	VP	Y	65	-
SHEPARD TERRACE							
4051-024	4052-024	141	8"	VP	N	0	-
4051-012	4051-024	214	8"	VP	Y	214	-
VAN HISE AVE							
4052-008	4052-009	234	8"	VP	N	0	-
4052-009	4052-010	234	8"	VP	N	0	-

ABANDON SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
MASON ST				
4052-023	202+30.08	CL	48"	-
SHEPARD TERRACE				
4052-013	100+46.10	LT-16.34	48"	-
4052-012	102+03.86	CL	48"	-
4052-011	104+01.03	CL	48"	-

ABANDON SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
MASON ST						
4052-018	4052-023	340	8"	VP	Y	W/ SLURRY
SHEPARD TERRACE						
4052-012	4052-013	160	8"	VP	Y	W/ SLURRY
4052-011	4052-012	197	8"	VP	Y	W/ SLURRY
4052-010	4052-011	92	8"	VP	Y	W/ SLURRY

STORM SEWER SCHEDULE

SHEPARD, CHAMBERLAIN, VAN HISE, MASON	SHEET NO.
PROJECT NO. 11742	U-7
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
CHAMBERLAIN AVE							
S-1	405+29.24	LT-33.14	STORM TAP	-	919.40	-	EX AS 4051-001
S-2	405+18.08	LT-14.50	H INLET	923.98	920.42	3.56	W/ R-3067-7004-V
S-11	401+07.00	LT-14.50	H INLET	919.57	915.97	3.60	LP; W/ R-3067-7004-VB
S-12	401+07.00	RT-14.50	H INLET	920.83	917.23	3.60	LP; W/ R-3067-7004-VB
MASON							
S-3	205+68.21	LT-11.50	STORM TAP	-	931.61	-	EX AS 4052-010
S-4	205+53.81	RT-14.50	H INLET	935.14	931.75	3.39	LP; W/ R-3067-7004-VB
VAN HISE AVE							
S-5	305+66.23	LT-37.00	STORM TAP	-	924.93	-	EX AS 4052-014
S-6	305+50.00	LT-14.50	H INLET	930.54	926.94	3.60	W/ R-3067-7004-V
S-7	305+50.00	RT-14.50	H INLET	930.87	927.27	3.60	LP; W/ R-3067-7004-VB
SHEPARD TERRACE							
S-8	110+11.64	LT-20.54	STORM TAP & REBUILD	-	905.55	-	EX AS 4051-024; (1)
S-9	109+28.77	CL	TERRACE INLET TYPE II	912.68	908.57	4.11	FP
S-10	108+14.27	RT-8.00	4X4 SAS	918.96	914.96	4.00	FP; W/ R-3067-7004-V
S-13	107+48.78	RT-14.50	H INLET	922.17	918.57	3.60	FP; W/ R-3067-7004-V
S-14	105+88.52	LT-14.50	H INLET	932.43	928.83	3.60	FP; W/ R-3067-7004-V
S-15	105+22.10	LT-14.50	H INLET	933.69	930.09	3.60	FP; W/ R-3067-7004-V
S-16	104+83.76	LT-14.50	H INLET	934.69	931.09	3.60	W/ R-3067-7004-V
S-17	104+28.90	LT-14.50	H INLET	937.83	934.23	3.60	W/ R-3067-7004-V; (2)

ULO SCHEDULE

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
SHEPARD TERRACE				
ULO-1	107+57.98	RT-22.72	GAS	-
ULO-2	108+08.90	RT-16.00	GAS	-
ULO-3	109+23.37	LT-3.05	WATER	-

SPECIFIC NOTES

- REBUILD TOP; INSTALL HYDROVENT CASTING R-1550 HYDROVENT CASTING TO BE ALIGNED TO DISCHARGE TOWARDS KENDALL AVE
- CONSTRUCT NEW SIDEWALK FLUME / INLET PER BID ITEM 90030 AND DETAIL DRAWING D-4

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
P-1	S-1	S-2	919.40	920.42	22	17	6.00%	12"	TYPE II	-
P-3	S-3	S-4	931.61	931.75	29	24	0.58%	12"	TYPE I	-
P-5	S-5	S-6	924.93	926.94	28	22	9.14%	12"	TYPE II	-
P-6	S-6	S-7	926.94	927.27	29	27	1.22%	12"	TYPE I	-
P-8	S-8	S-9	905.55	908.57	86	82	3.68%	18"	TYPE I	-
P-9	S-9	S-10	908.82	914.96	115	112	5.48%	15"	TYPE II	-
P-10	S-10	S-11	915.21	915.97	28	25	3.04%	12"	TYPE I	-
P-11	S-11	S-12	915.97	917.23	29	27	4.67%	12"	TYPE II	-
P-12	S-12	S-13A	917.23	918.57	31	28	4.79%	12"	TYPE I	-
P-13	S-10	S-14	915.21	928.83	225	222	6.14%	12"	TYPE I	-
P-14	S-14	S-15	928.83	930.09	62	58	2.17%	12"	TYPE II	-
P-15	S-15	S-16	930.09	931.09	36	32	3.13%	12"	TYPE II	-
P-16	S-16	S-17	931.09	934.23	63	60	5.23%	12"	TYPE II	-

STORM STRUCTURE REMOVALS

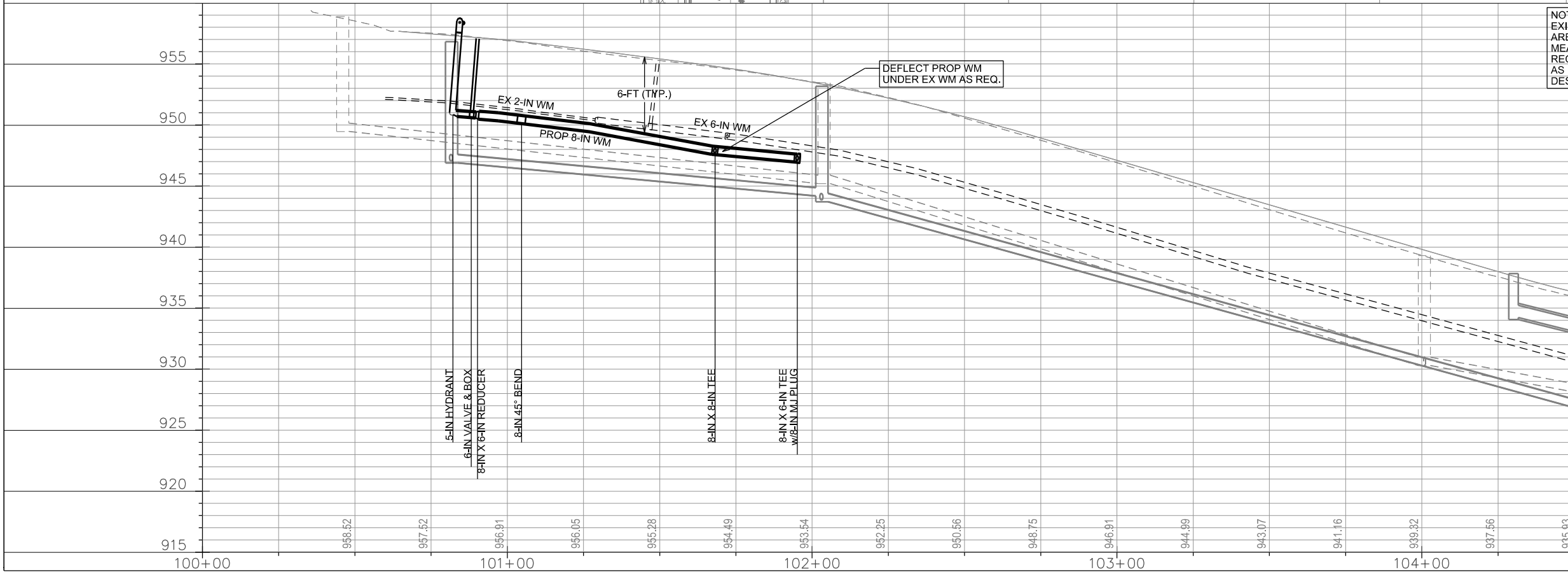
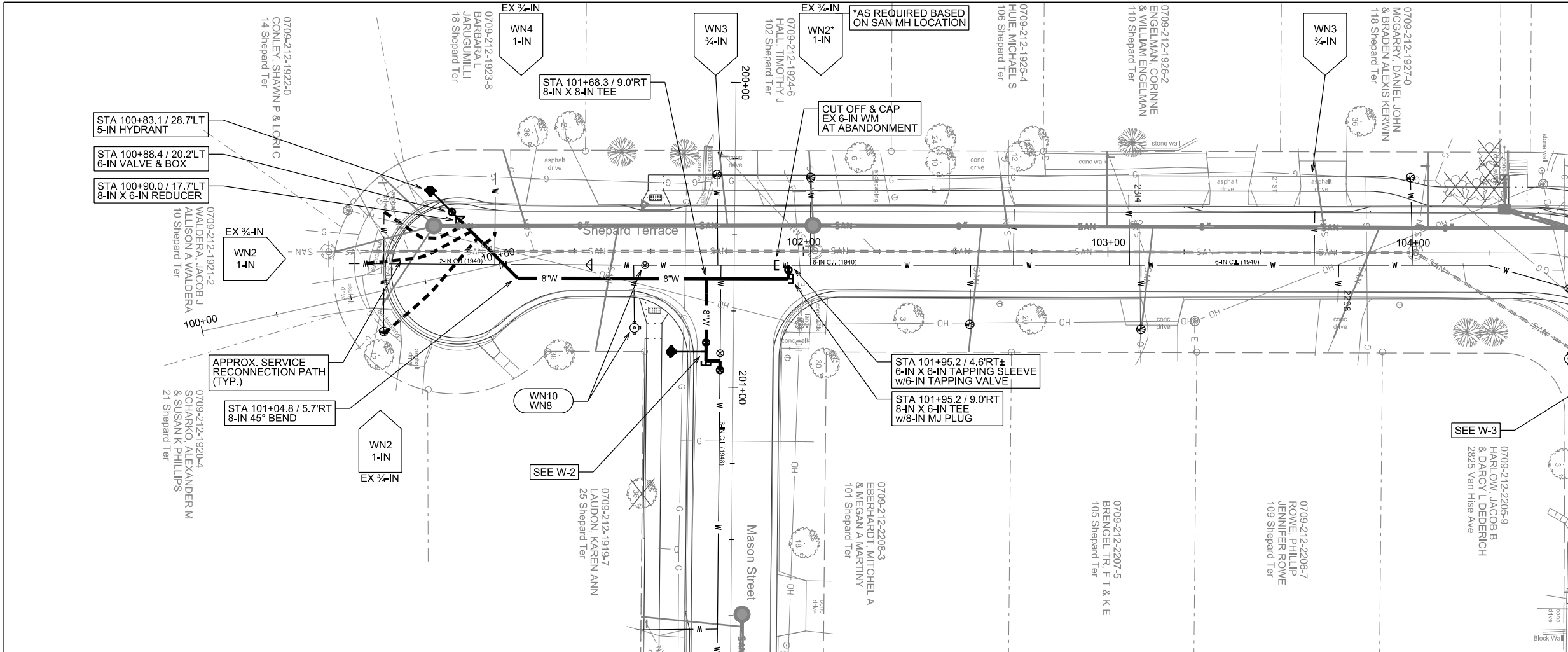
ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
MASON				
IN 4052-011	205+55.61	RT-17.43	H INLET	-
SHEPARD TERRACE				
IN 4051-021	109+25.72	CL	H INLET (2)	-

STORM PIPE REMOVALS

REMOVE FROM	REMOVE TO	LENGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
IN 4052-011	S-3	27	12"	VP	N	-
IN 4051-021	S-8	88	15"	RCP	N	-

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.



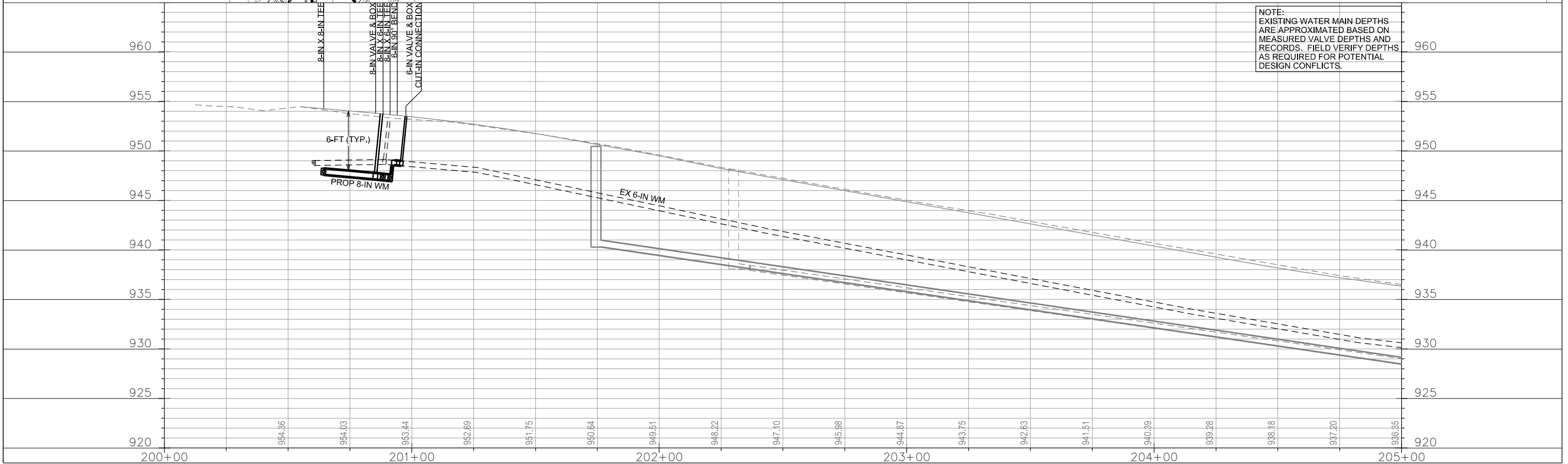
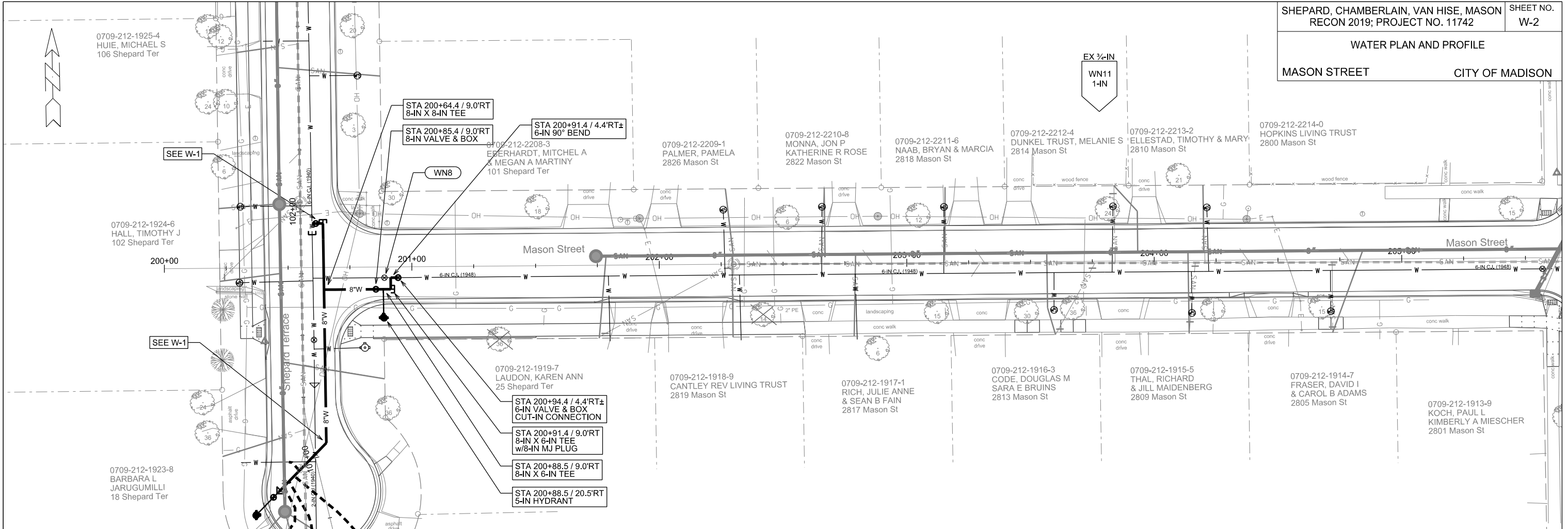
NOTE:
 EXISTING WATER MAIN DEPTHS
 ARE APPROXIMATED BASED ON
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 RECORDS. FIELD VERIFY DEPTHS
 AS REQUIRED FOR POTENTIAL
 DESIGN CONFLICTS.

PLOT SCALE:

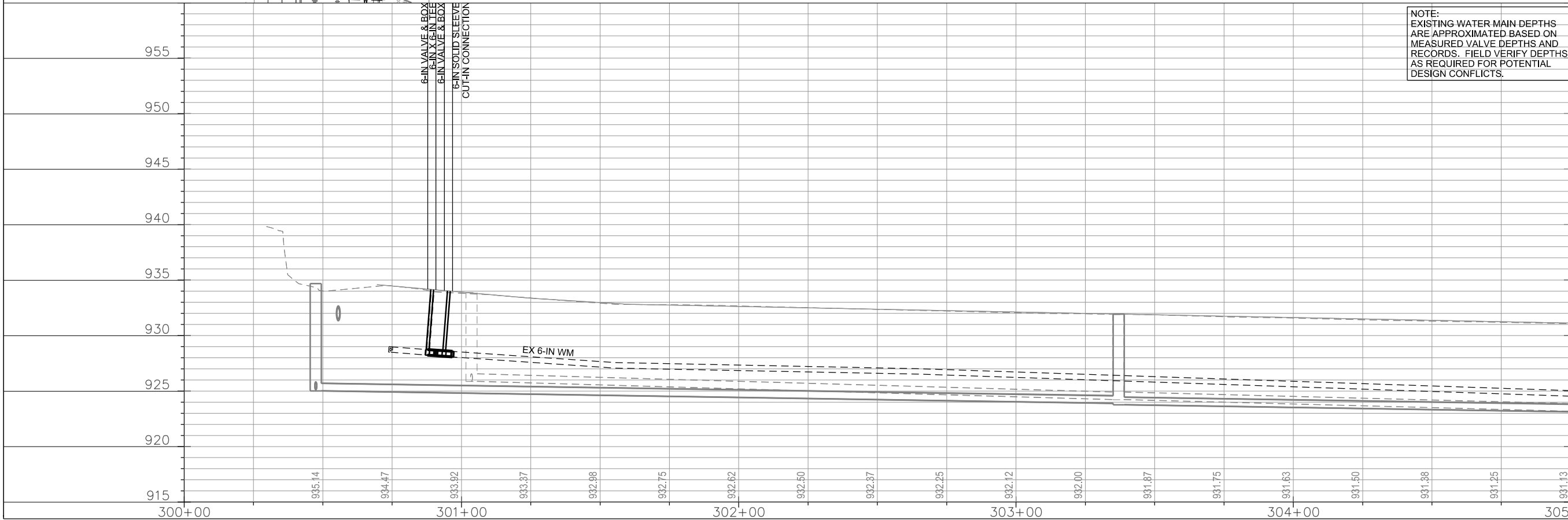
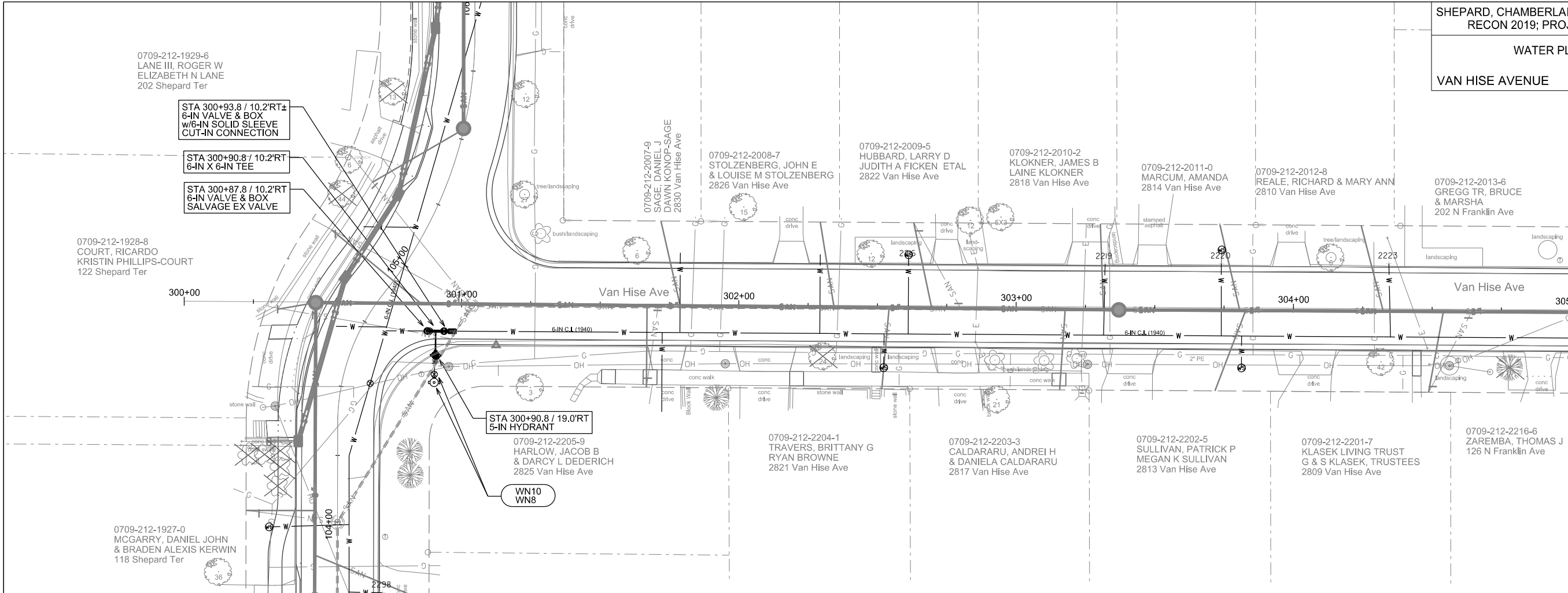
PLOT NAME:

REV. DATE:

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MATCHLINE STA 305+00.00

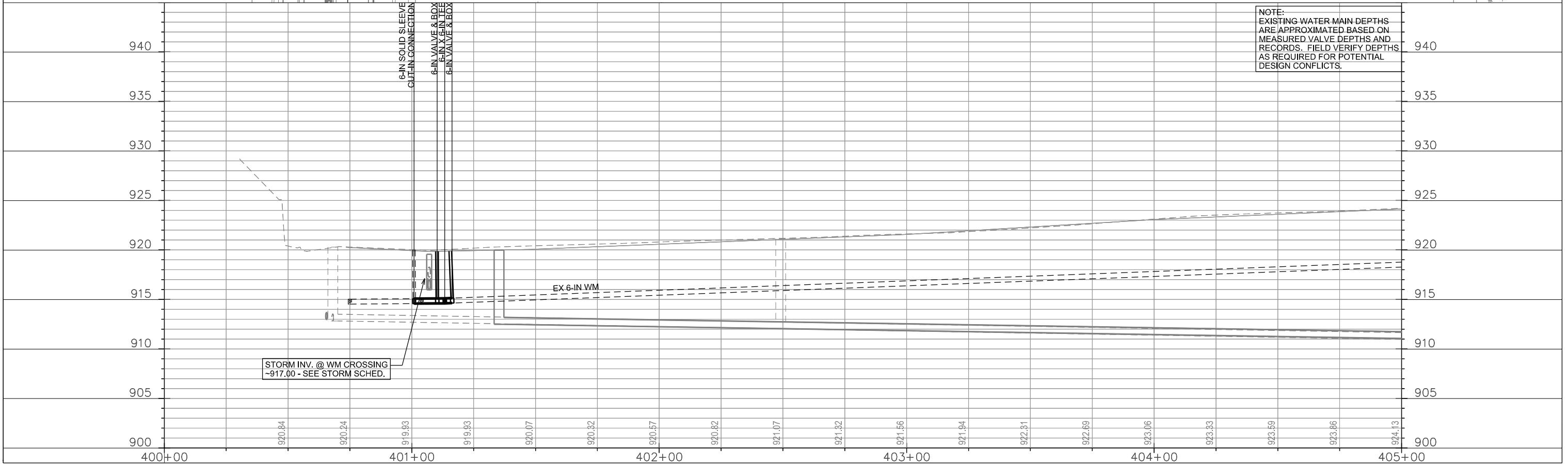
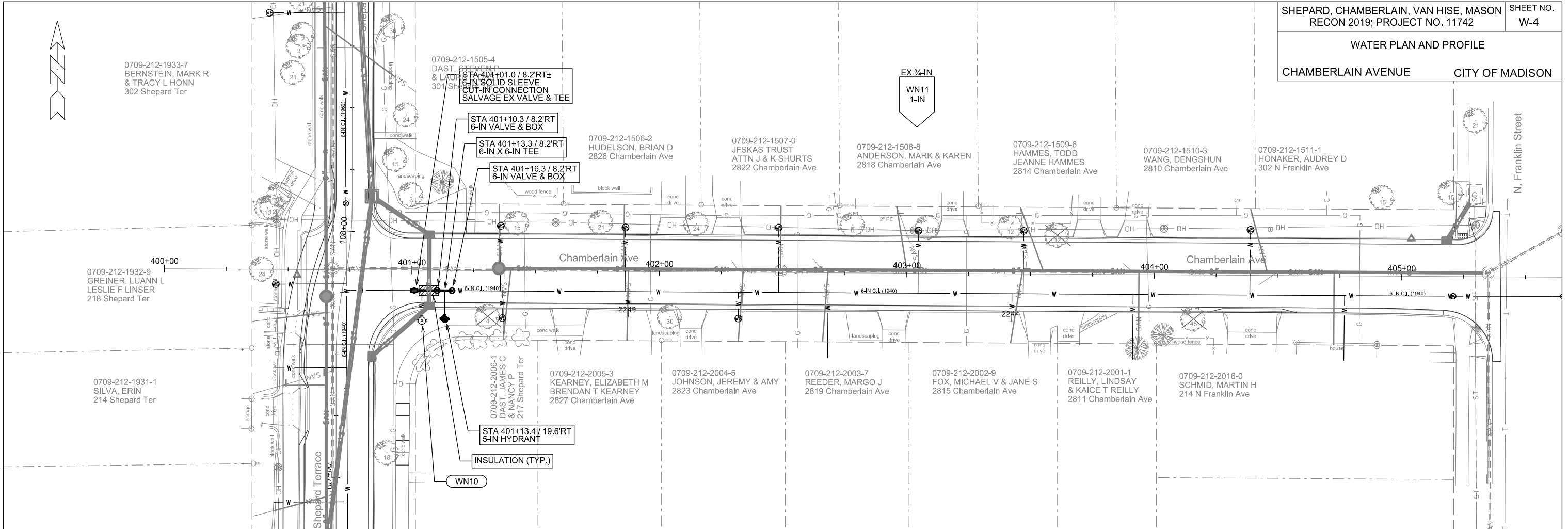


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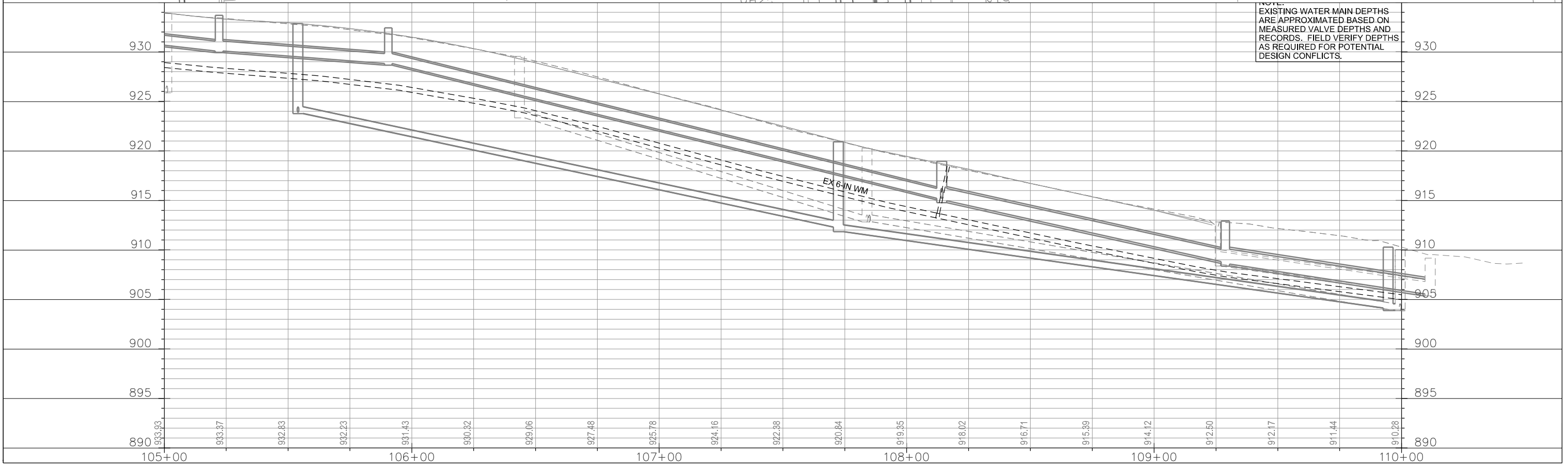
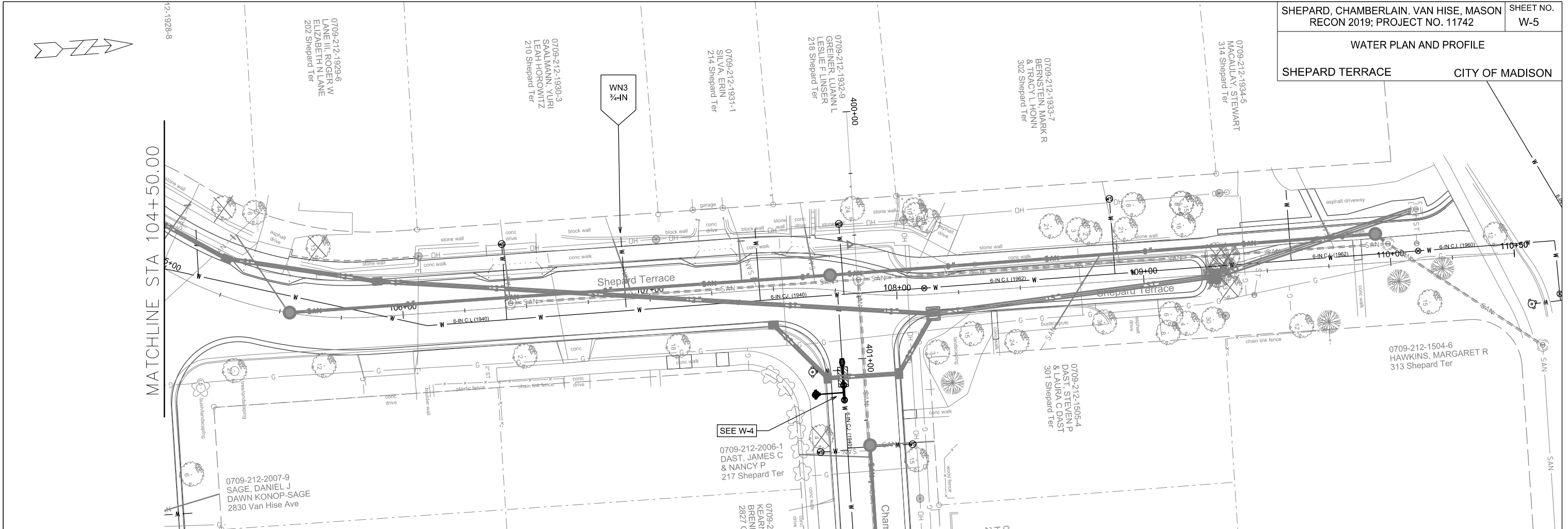
STORM INV. @ WM CROSSING
 ~917.00 - SEE STORM SCHED.

PLOT SCALE:

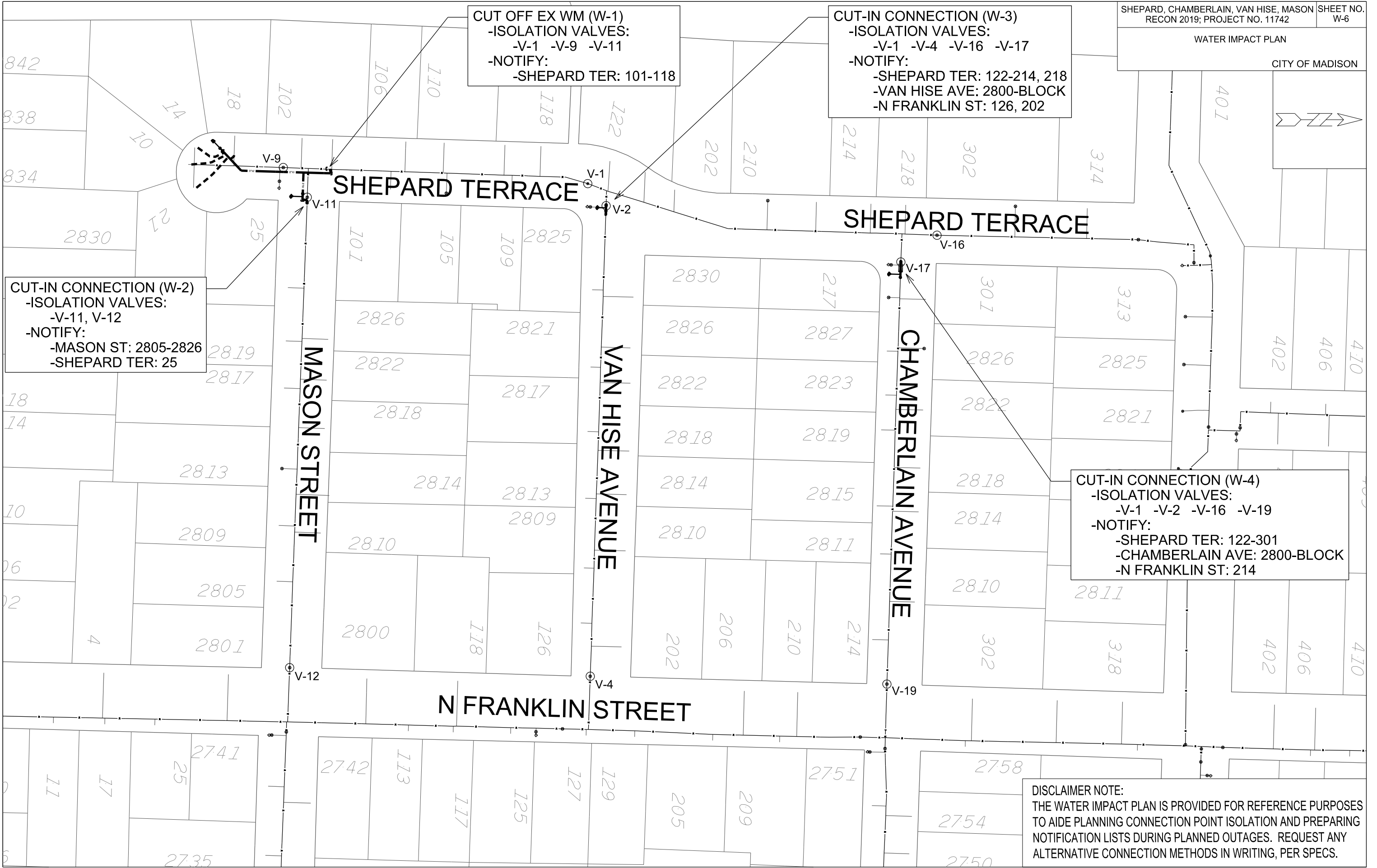
PLOT NAME:

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PLOT SCALE:
 PLOT NAME:
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DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

PLOT SCALE:

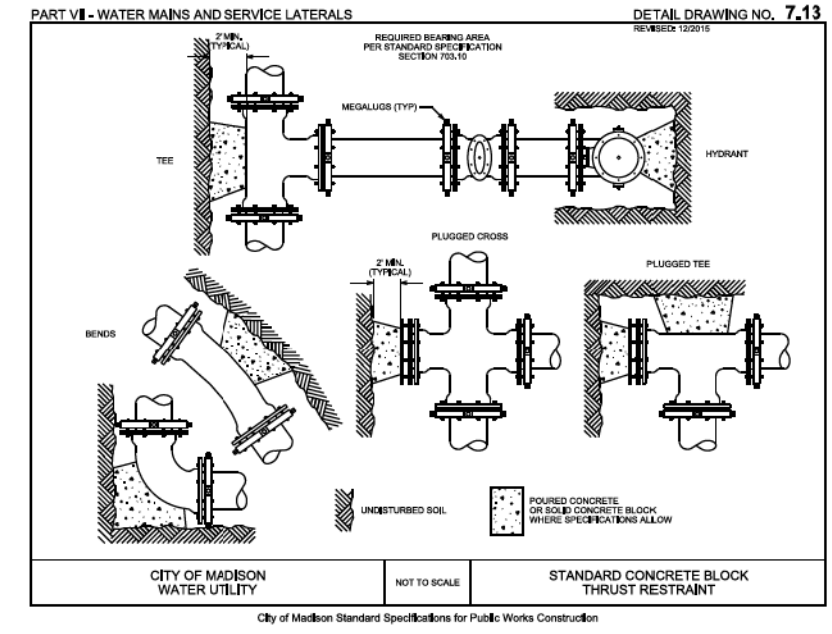
PLOT NAME:

REV. DATE:

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 FROM THE OLDER WATER MAIN TO THE NEWER WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF; ABANDON CURB BOX AS REQUIRED.
- WN4 DISCONNECT FROM THE OLDER WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEWER 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 PROJECT WATER MATERIALS FROM CONTRACTOR:

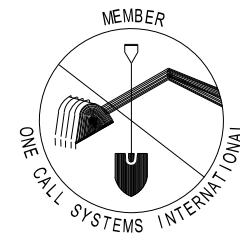
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.*

- 80 FT - 6-IN PIPE
- 150 FT - 8-IN PIPE
- 6 - 6-IN VALVE & BOX
- 1 - 8-IN VALVE & BOX
- 2 - 6-IN X 6-IN TEE
- 2 - 8-IN X 6-IN TEE
- 1 - 8-IN X 8-IN TEE
- 1 - 6-IN 90° BEND
- 1 - 8-IN 45° BEND
- 1 - 6-IN MJ CAP
- 2 - 8-IN MJ PLUG
- 2 - 6-IN SOLID SLEEVE
- 1 - 8-IN X 6-IN REDUCER
- 4 - 5-IN HYDRANT
- 260 FT - POLYWRAP
- 8 FT - STYROFOAM
- 1-IN COPPER TUBING (AS REQ)

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.

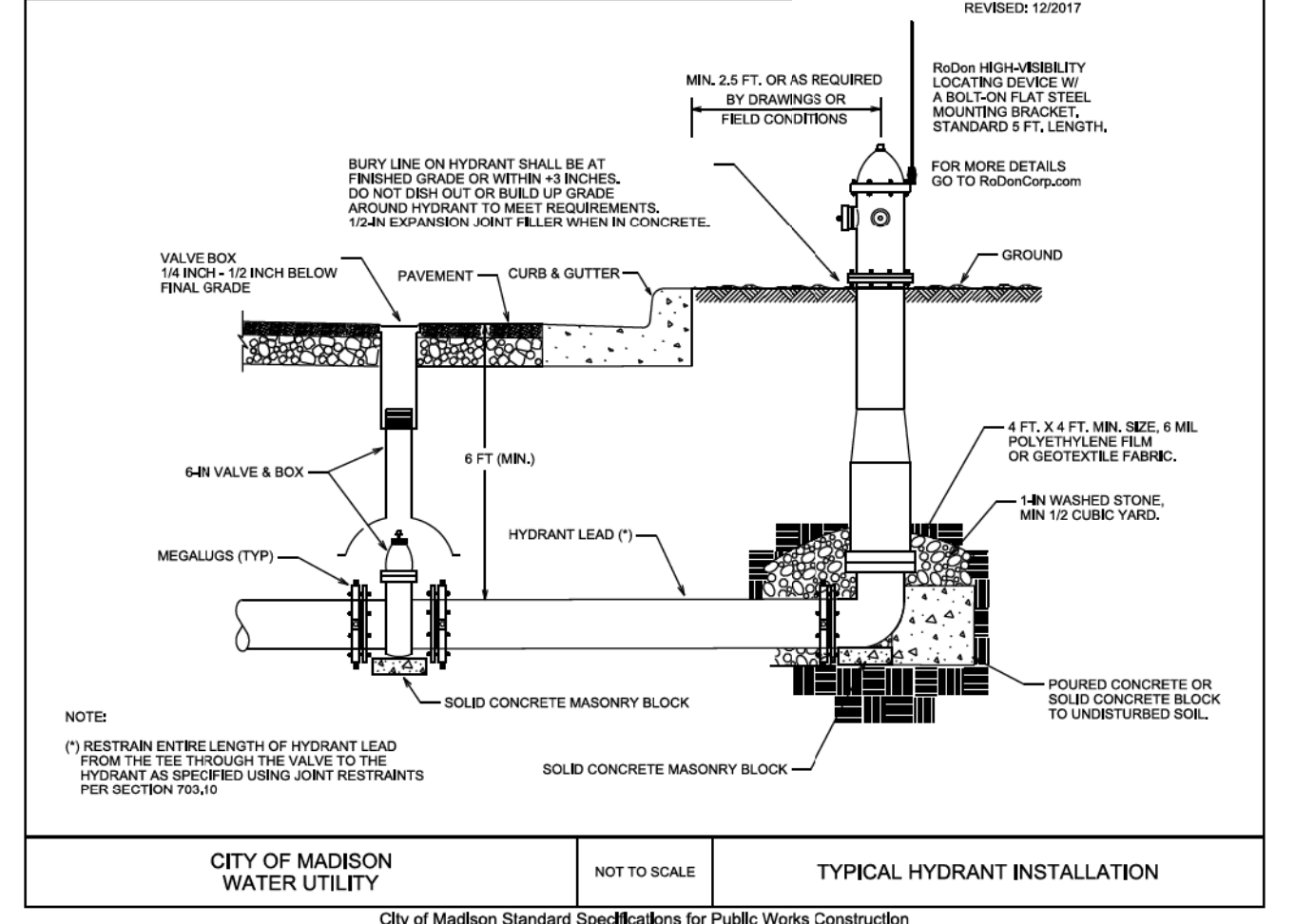


ESTIMATE OF PROJECT WATER MATERIALS FROM CITY:

- 1 - 6-IN X 6-IN TAPPING SLEEVE
- 1 - 6-IN TAPPING VALVE & BOX

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



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

CROSS SECTIONS

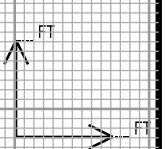
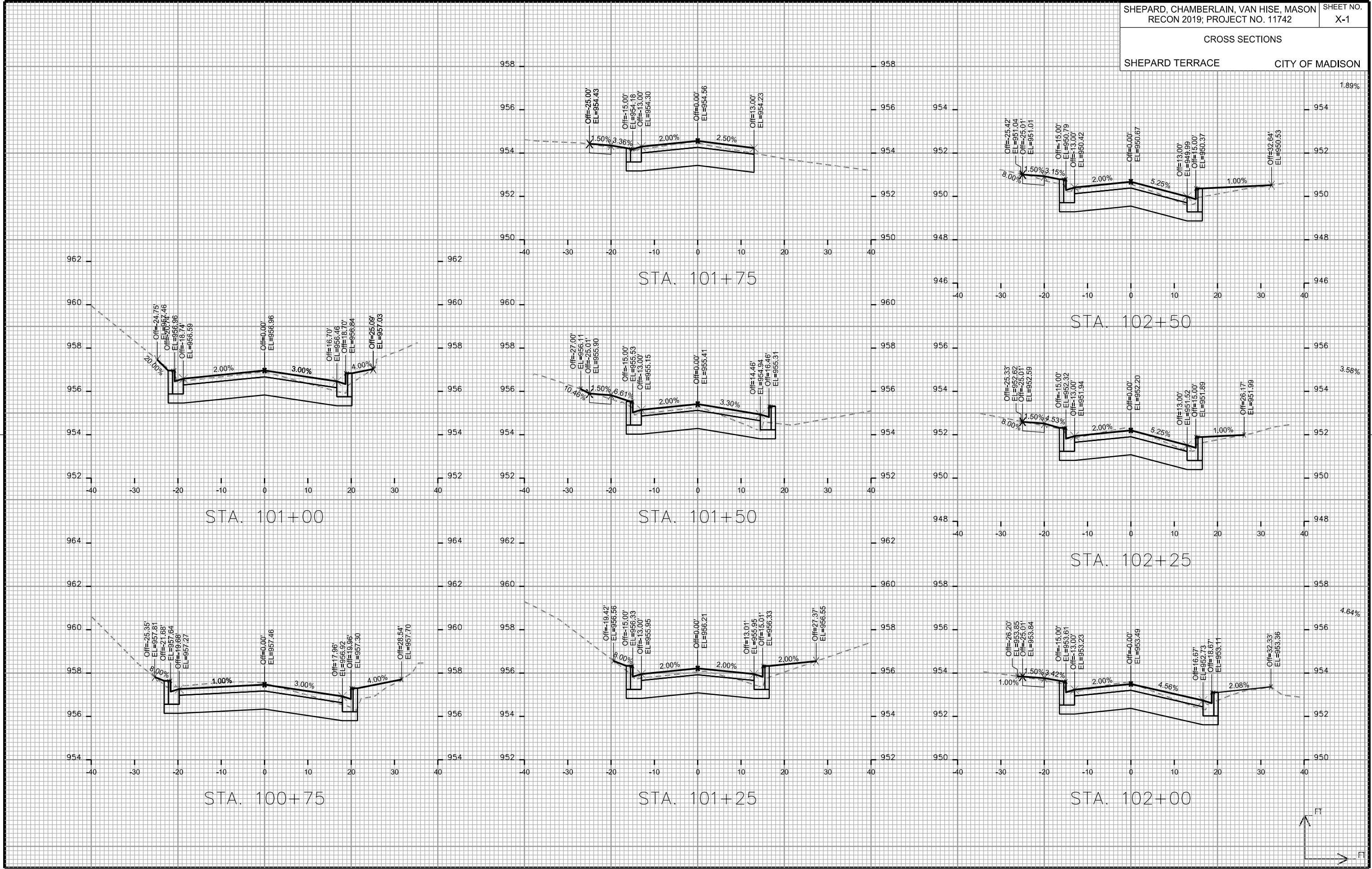
SHEPARD TERRACE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

SHEPARD TERRACE

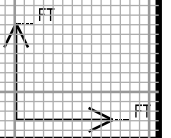
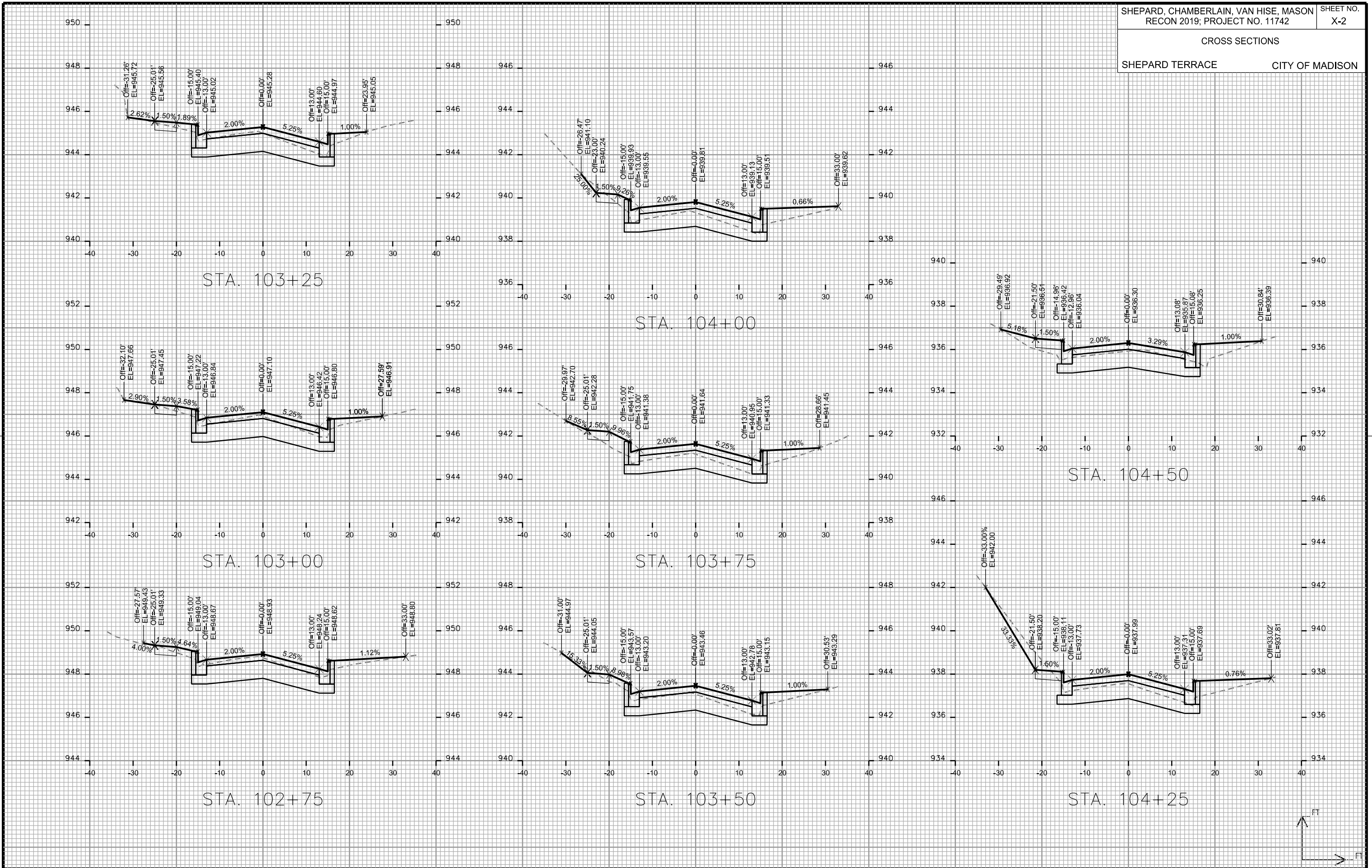
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

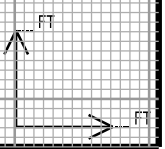
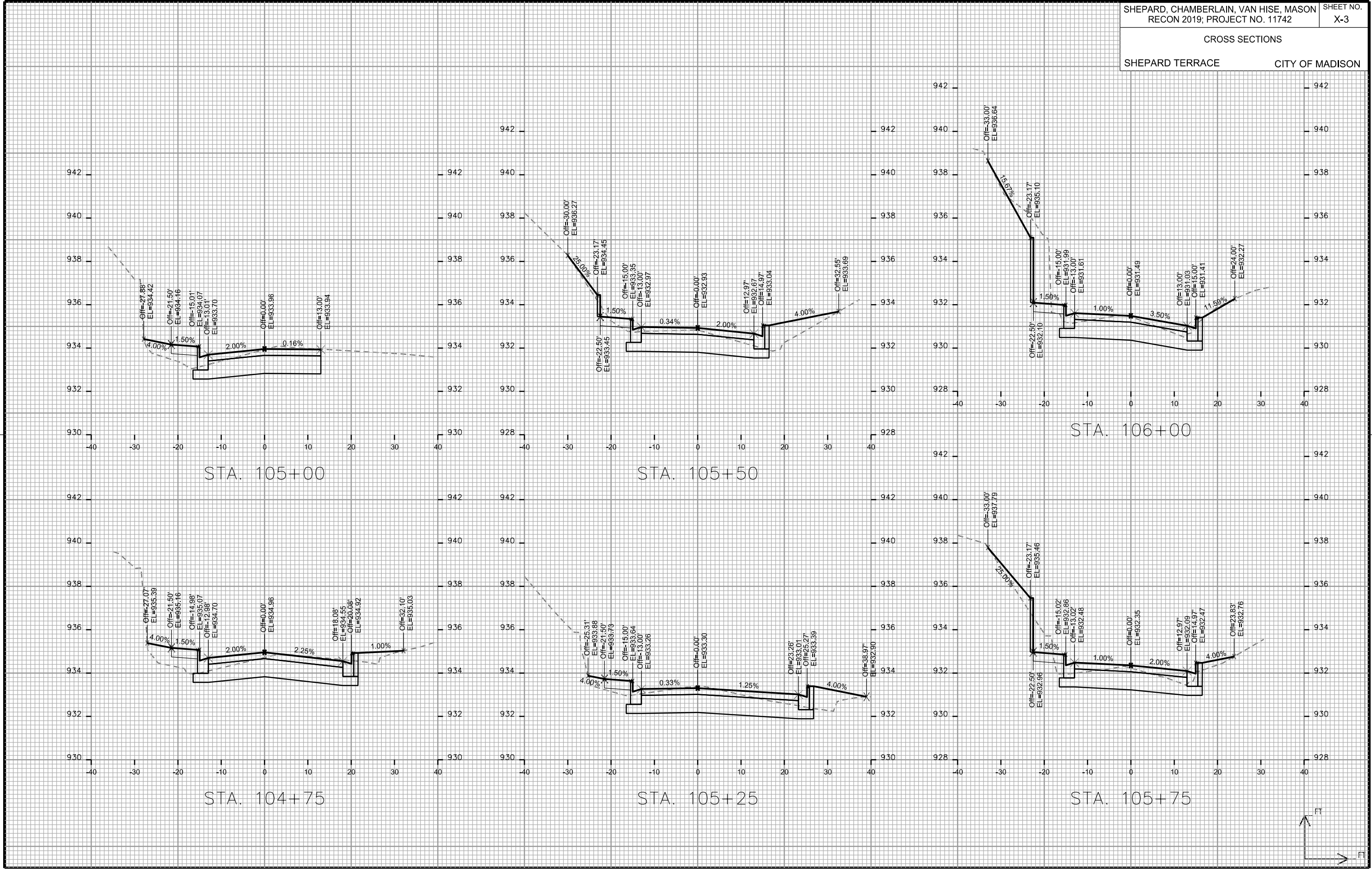
SHEPARD TERRACE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

SHEPARD TERRACE

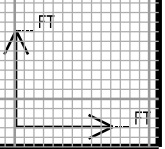
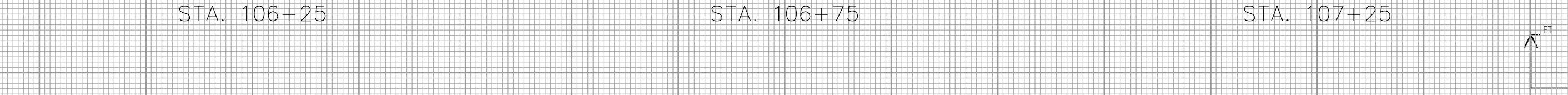
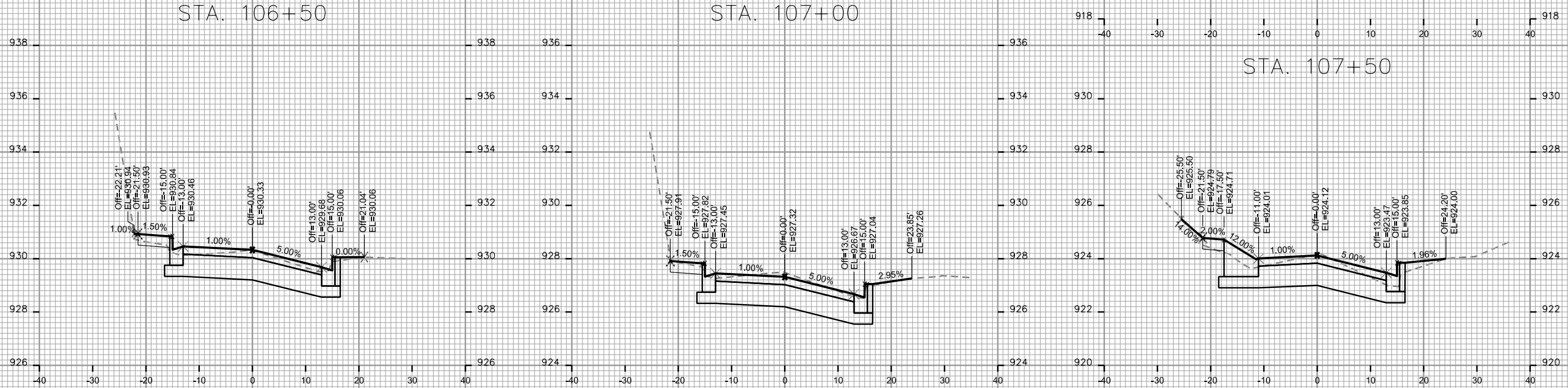
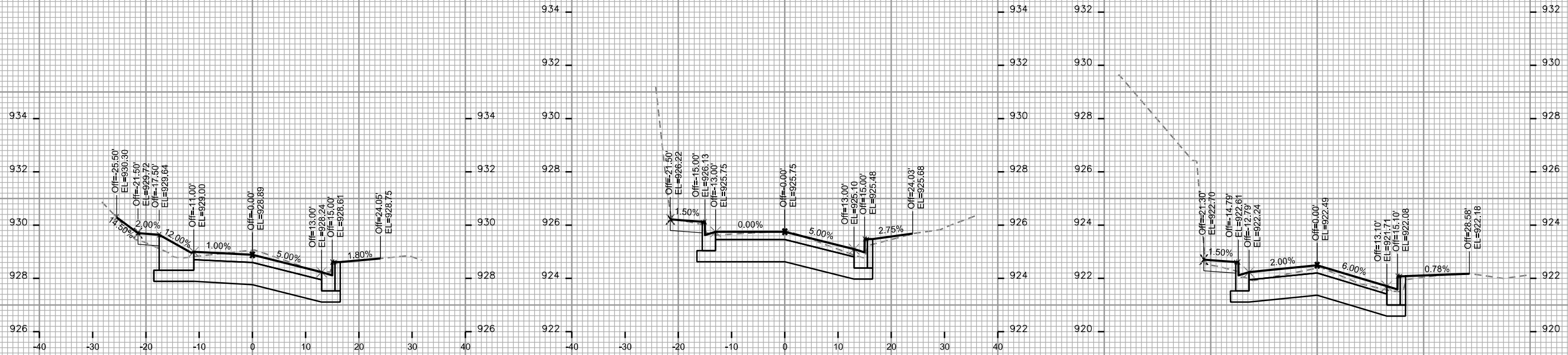
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



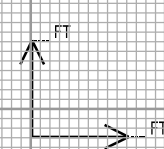
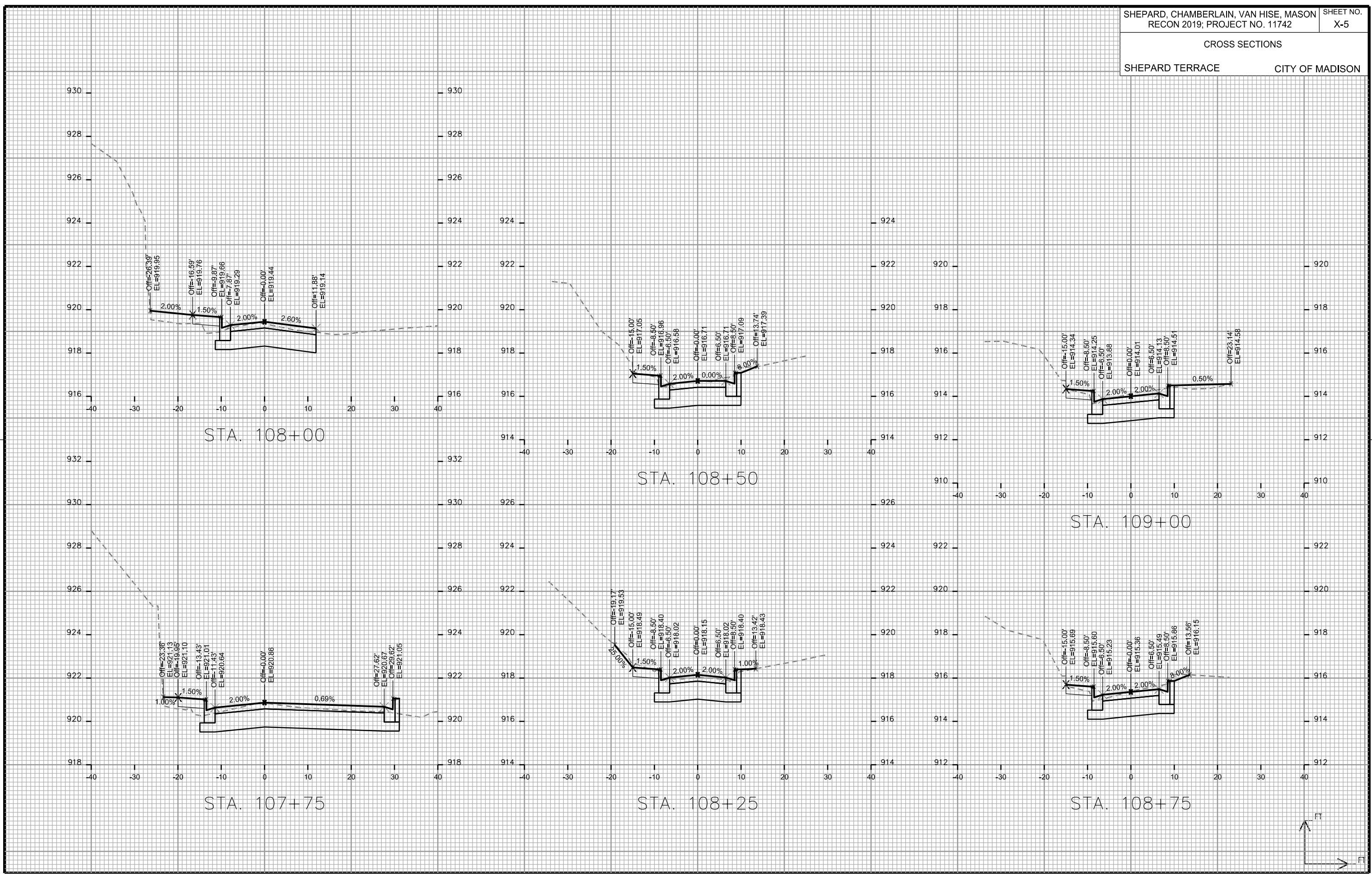
CROSS SECTIONS
 SHEPARD TERRACE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



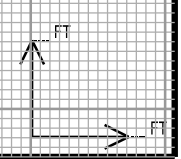
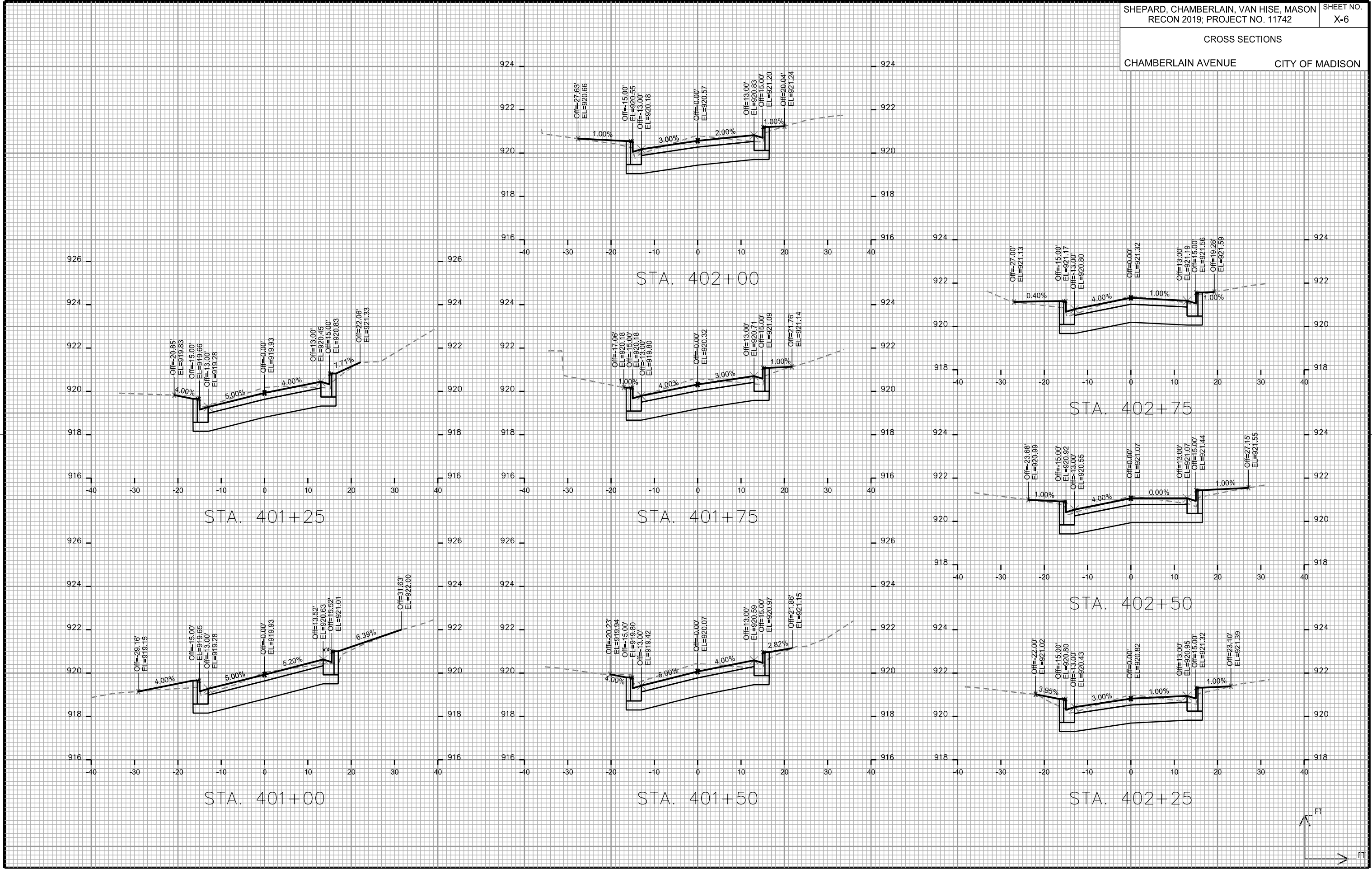
CROSS SECTIONS
 CHAMBERLAIN AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



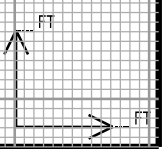
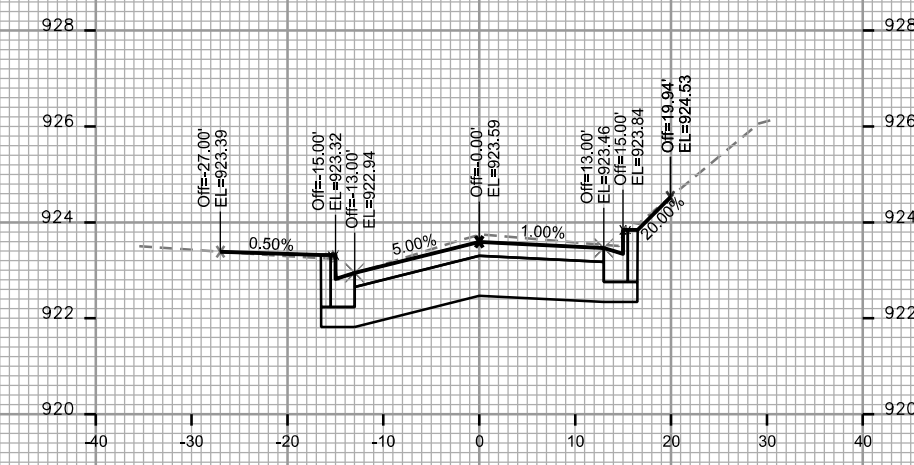
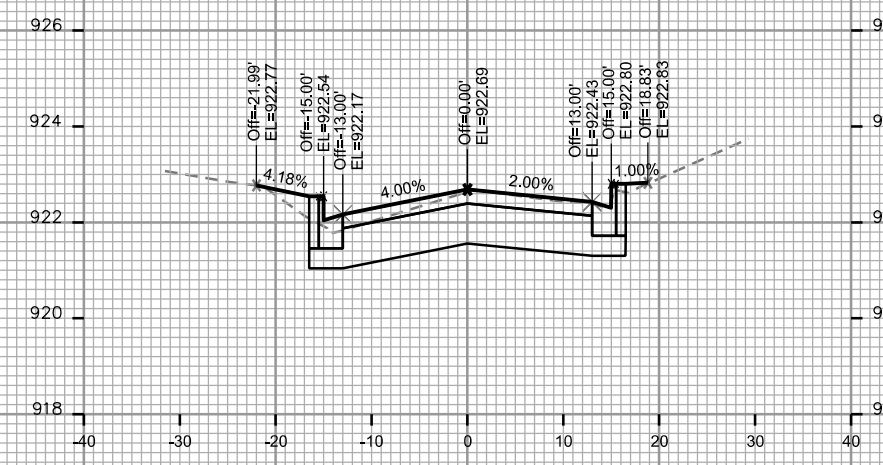
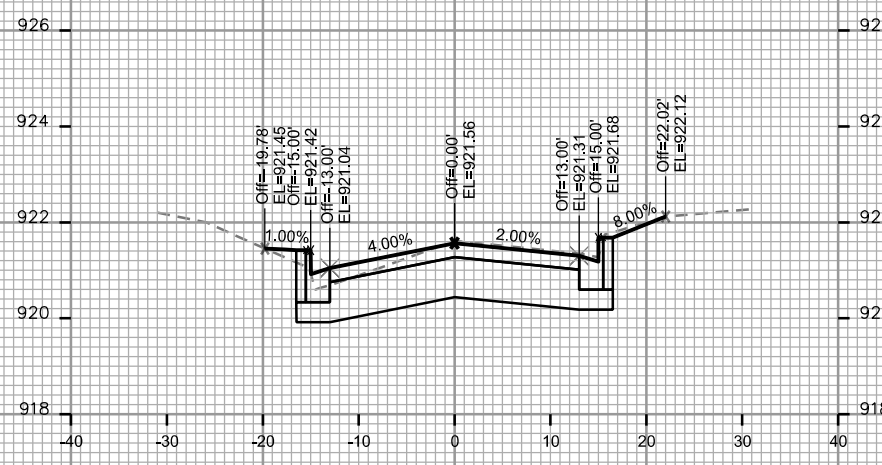
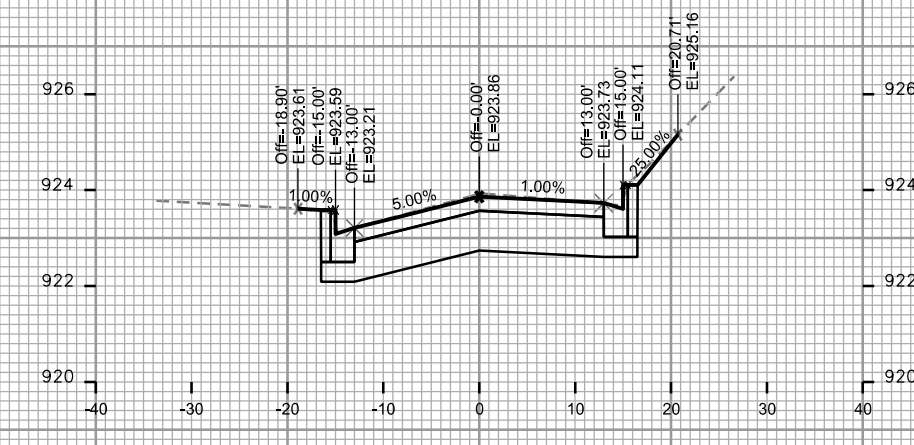
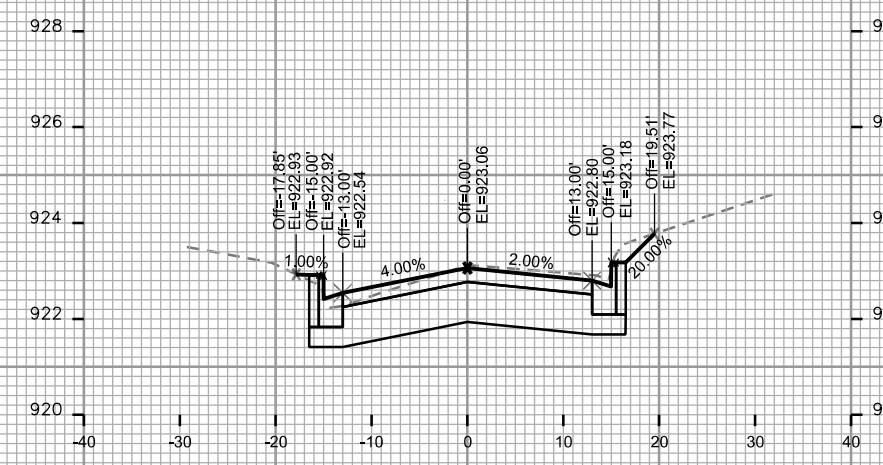
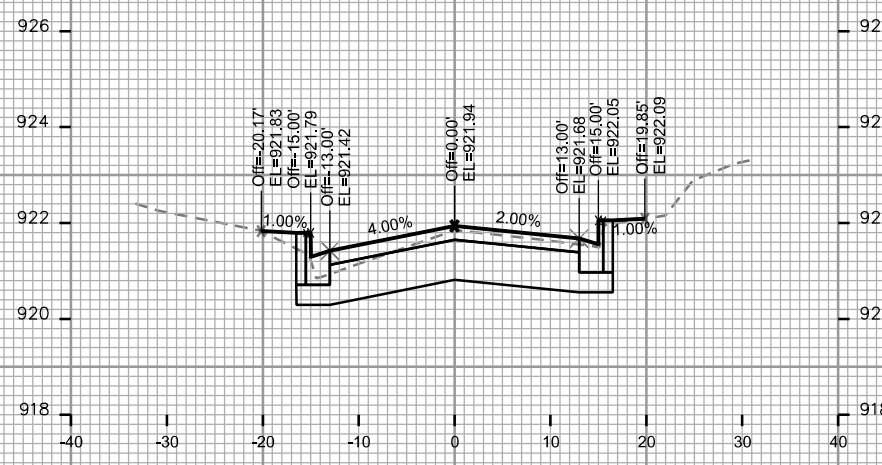
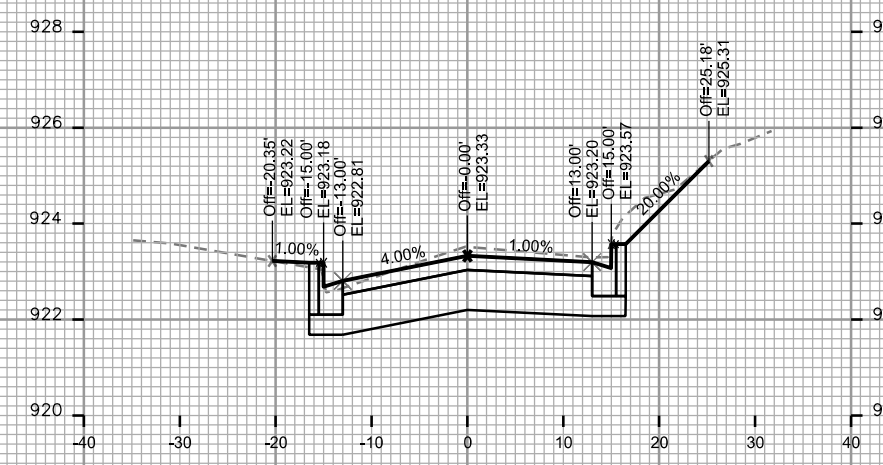
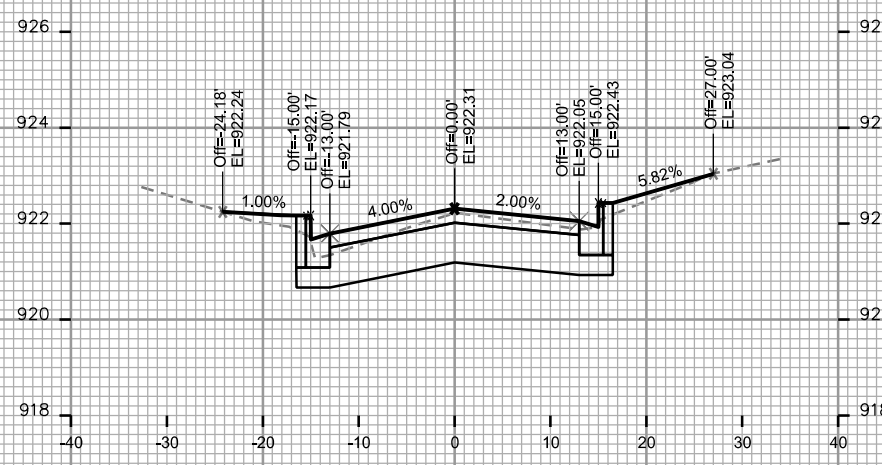
CROSS SECTIONS
 CHAMBERLAIN AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

CHAMBERLAIN AVENUE

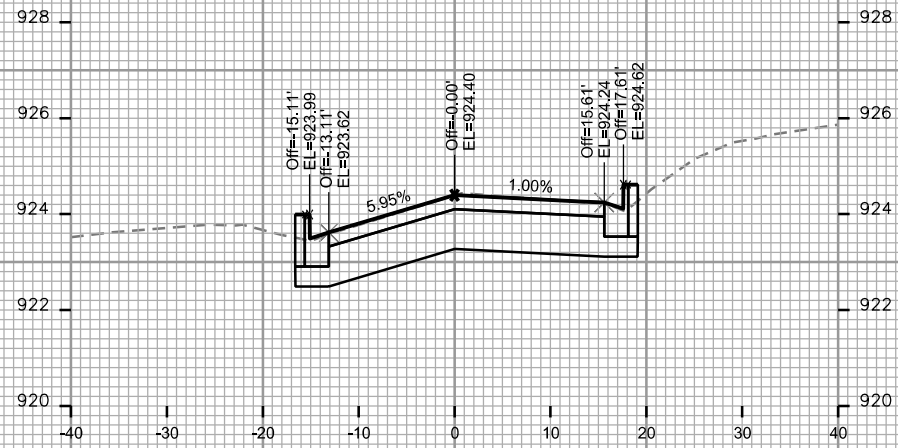
CITY OF MADISON

PLOT SCALE: _____

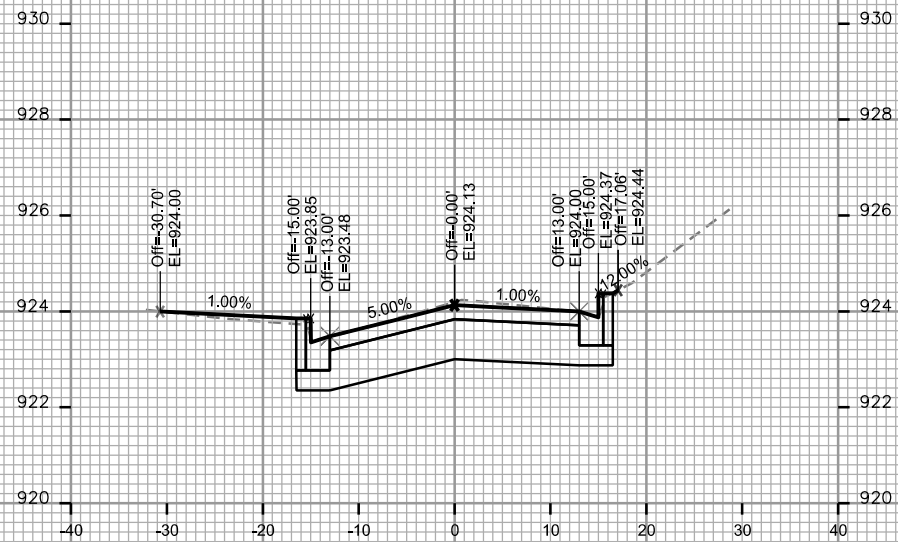
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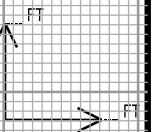
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



STA. 405+25



STA. 405+00



CROSS SECTIONS

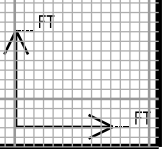
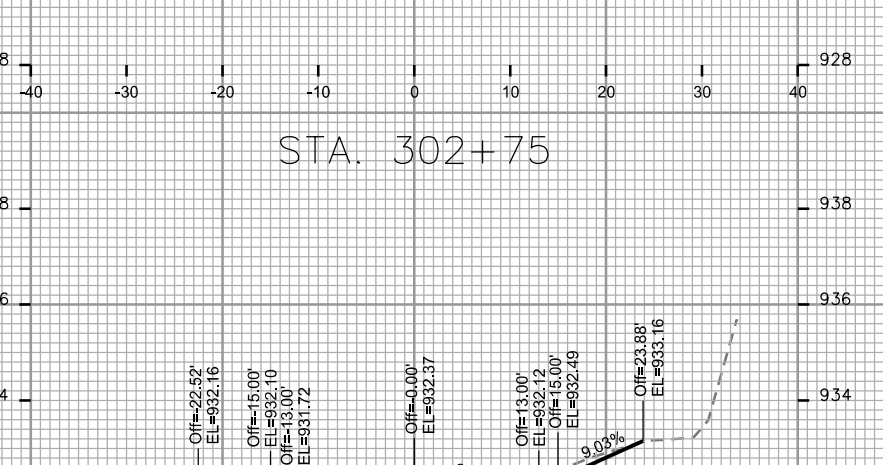
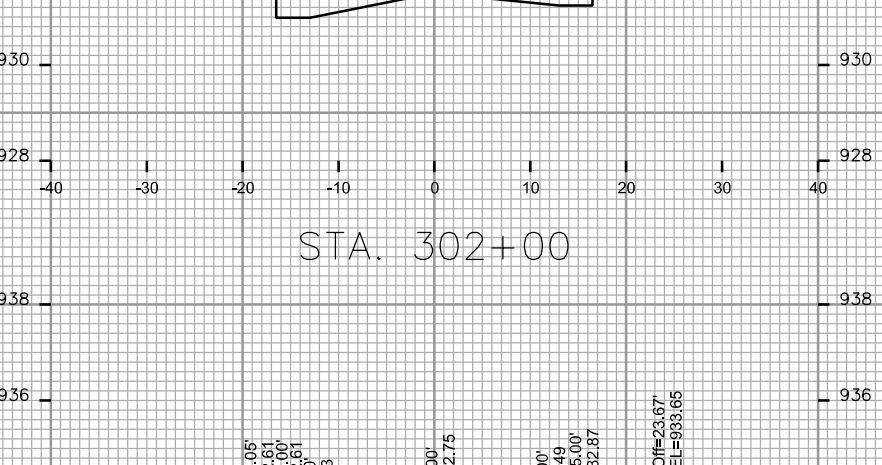
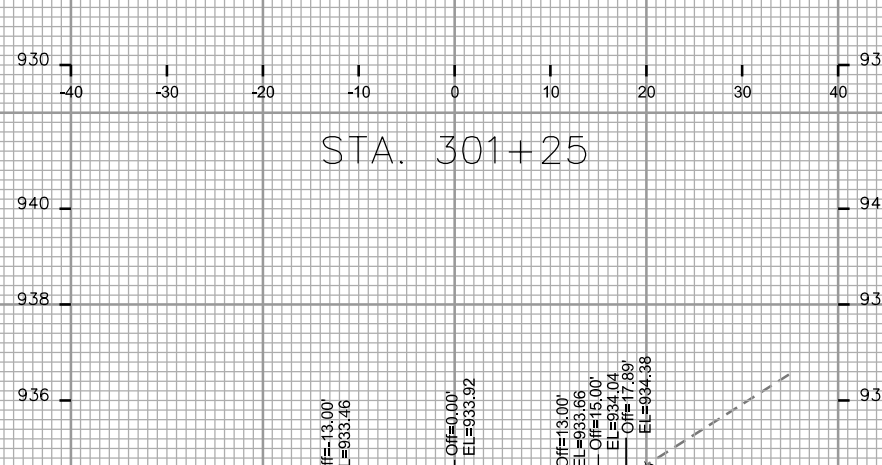
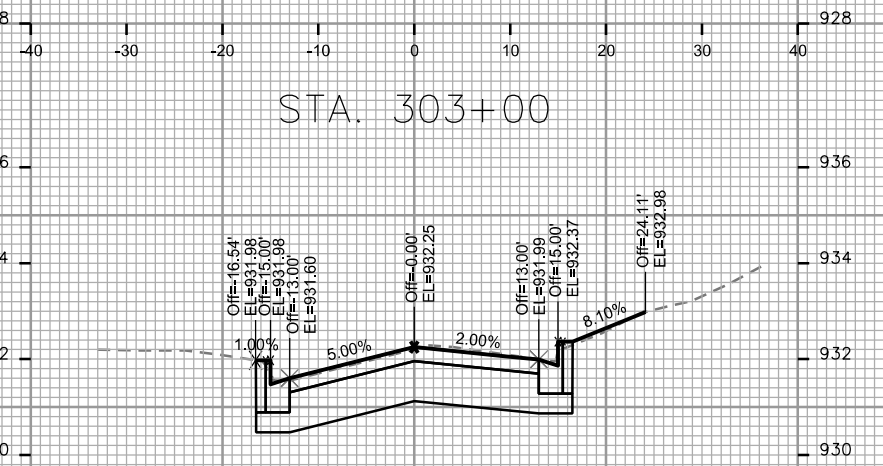
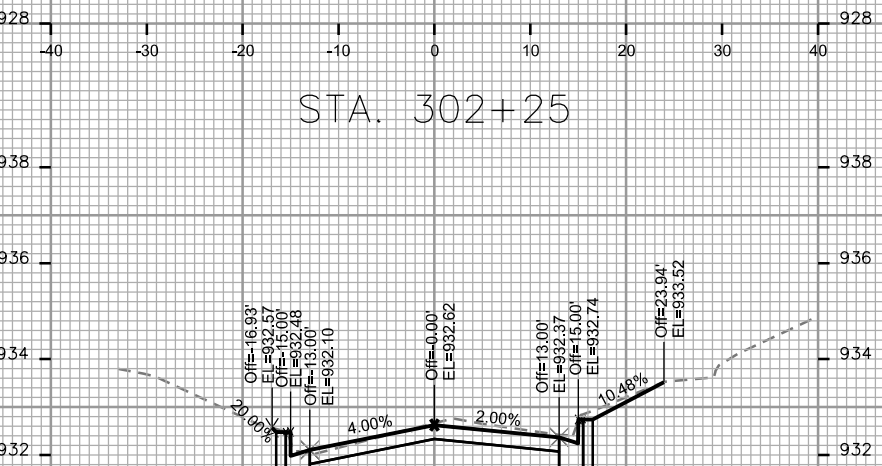
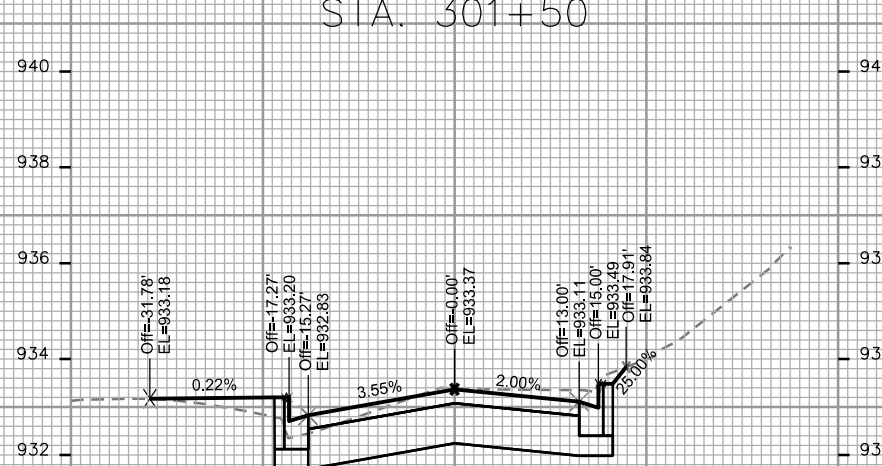
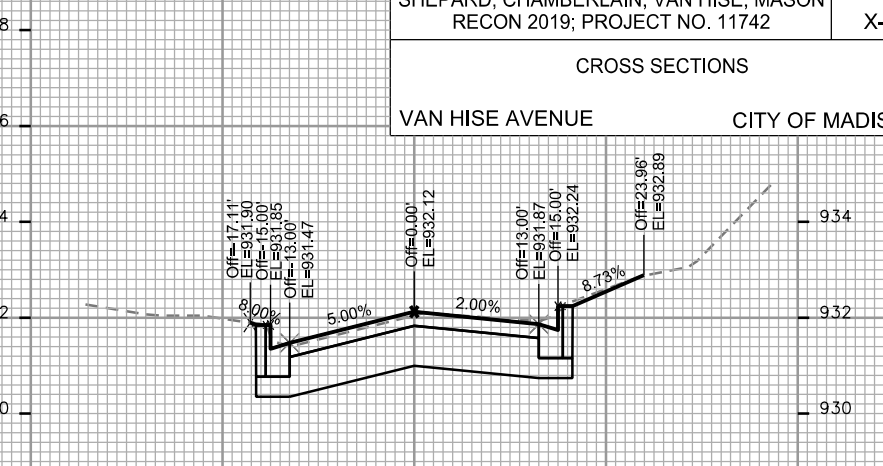
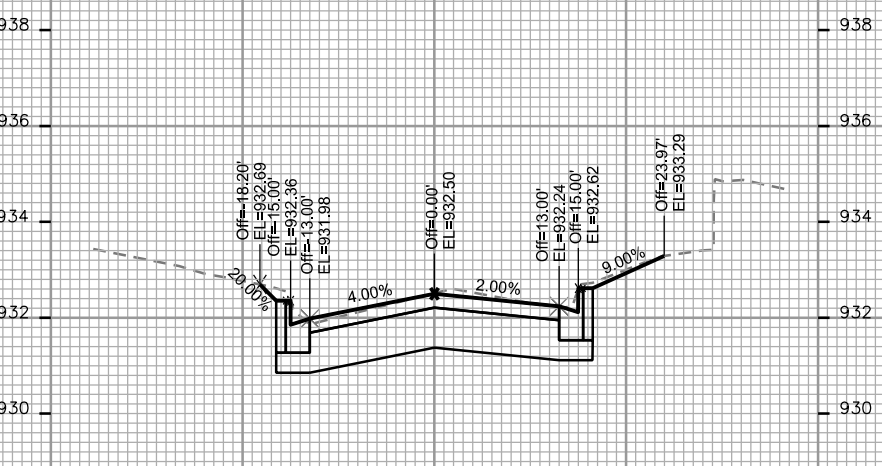
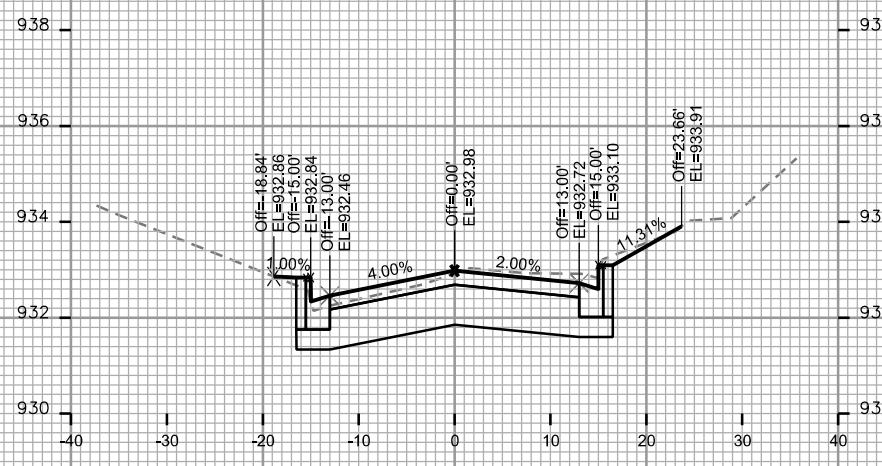
VAN HISE AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

VAN HISE AVENUE

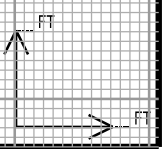
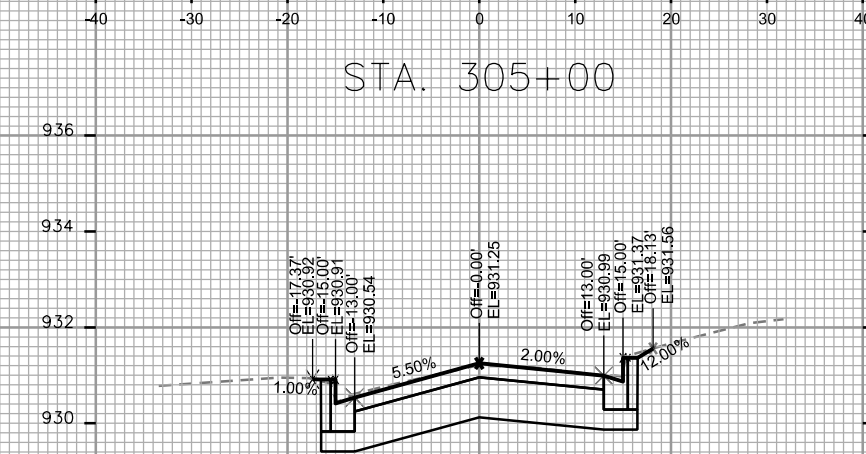
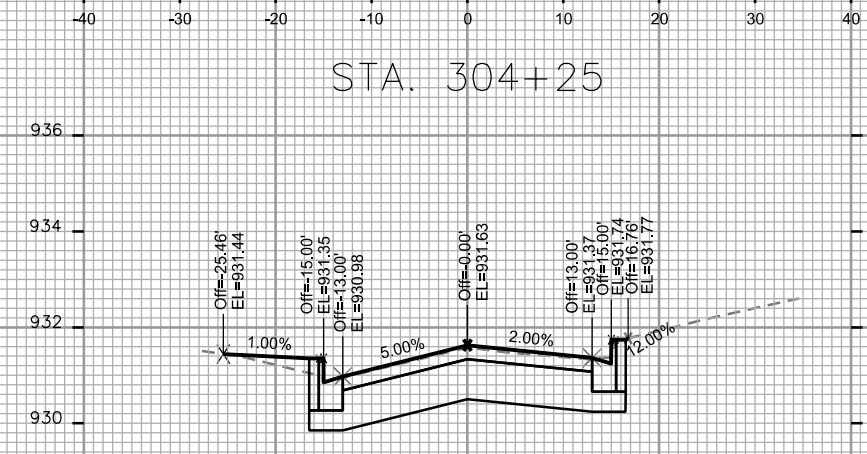
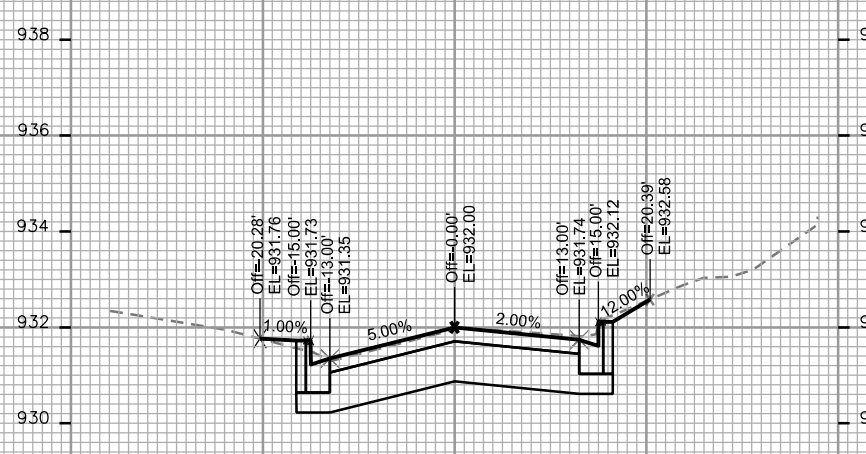
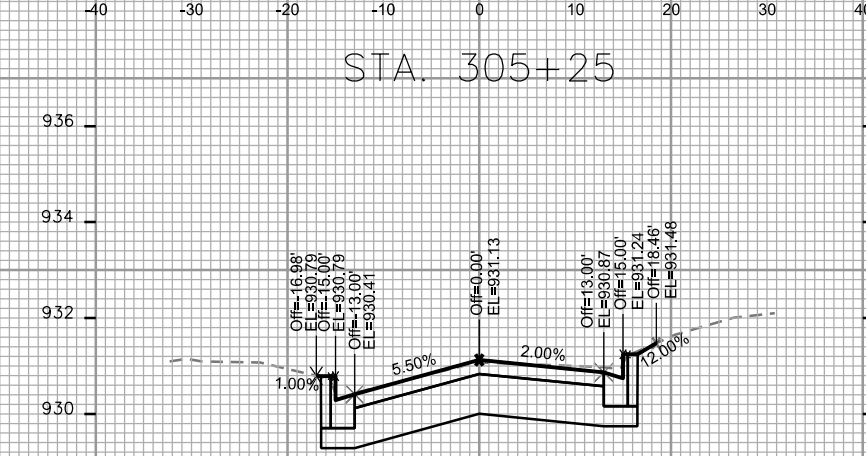
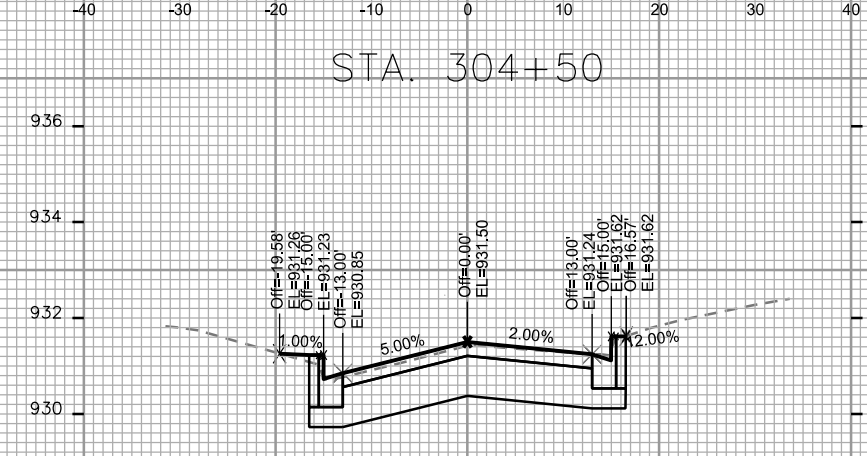
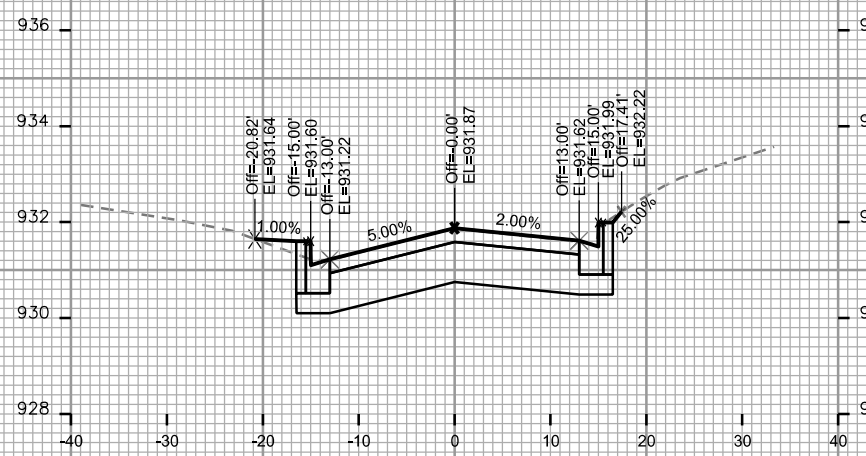
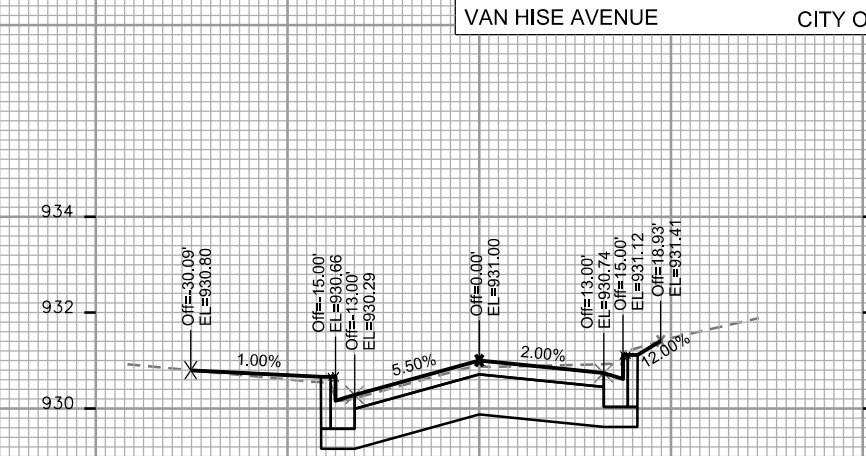
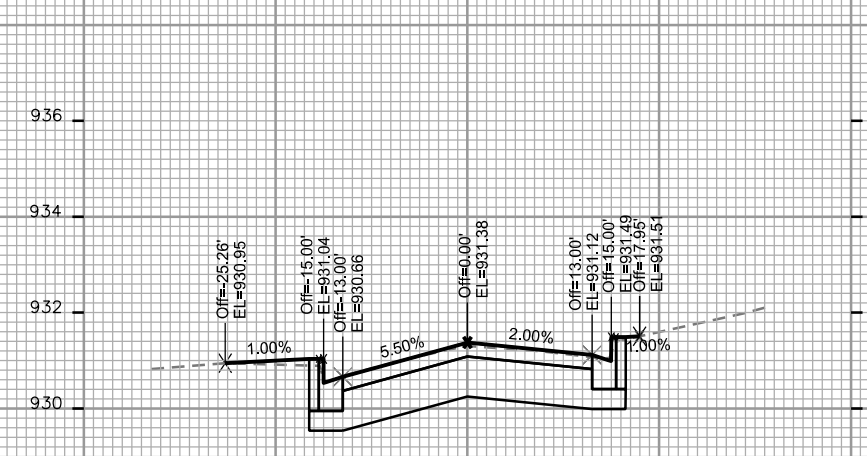
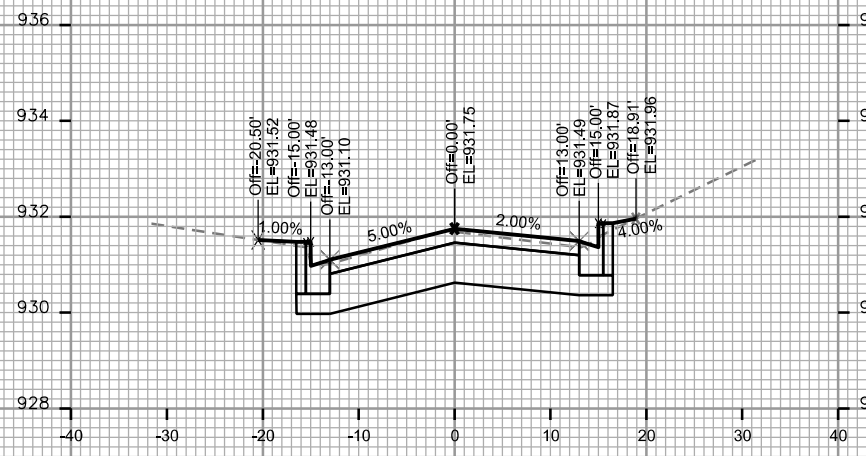
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

VAN HISE AVENUE

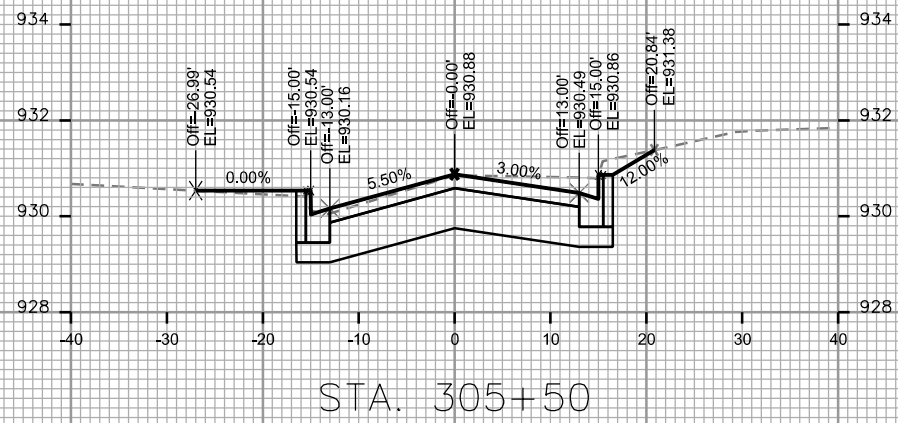
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

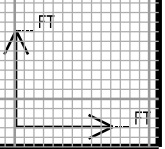
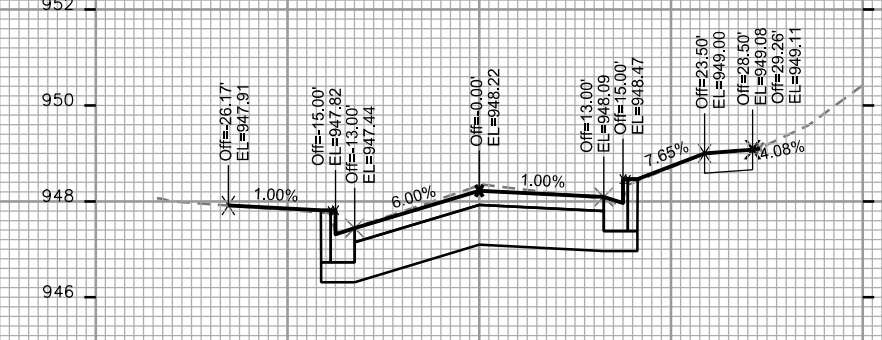
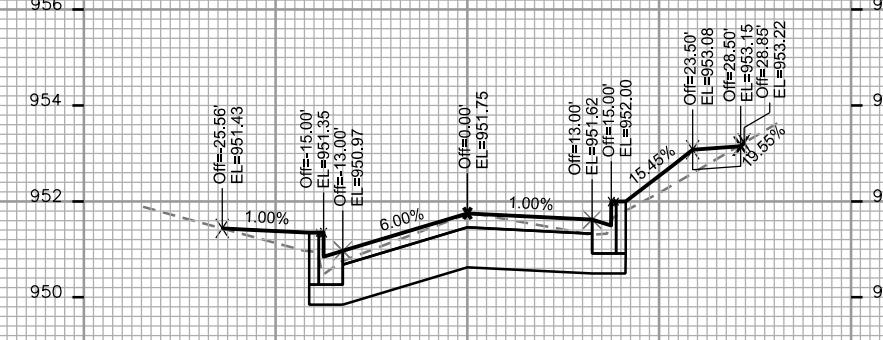
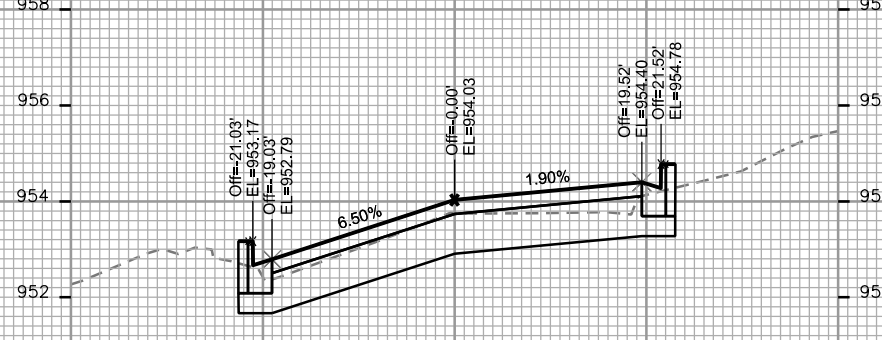
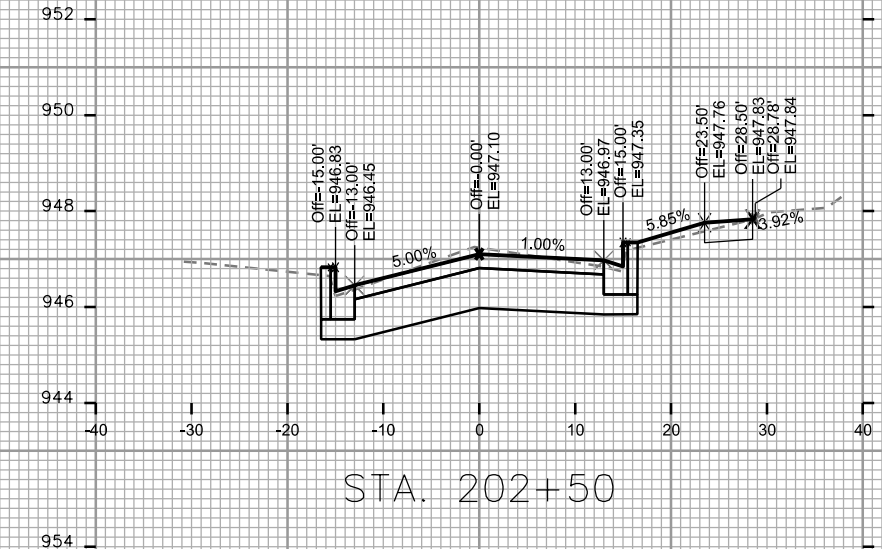
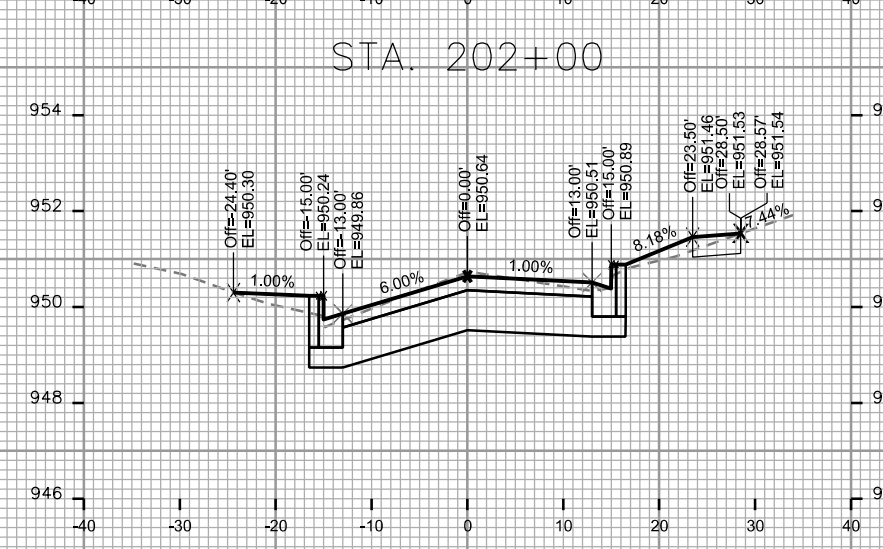
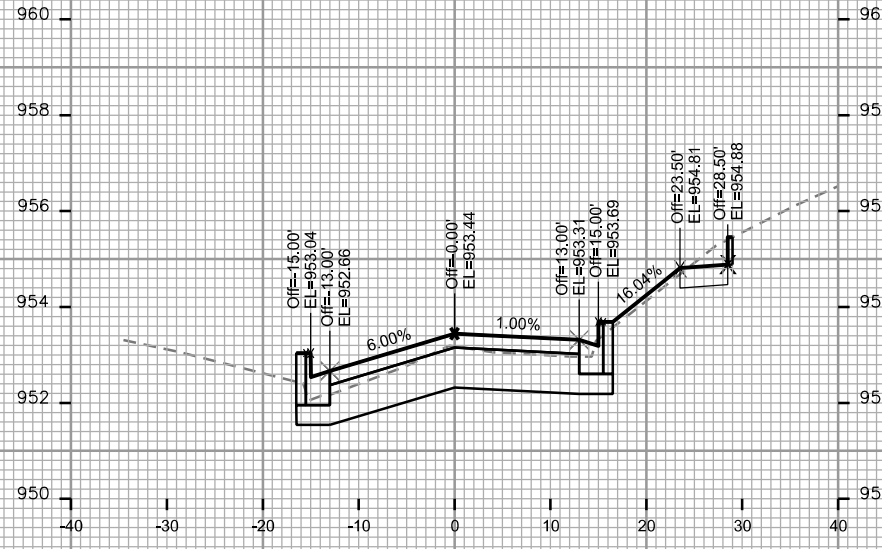
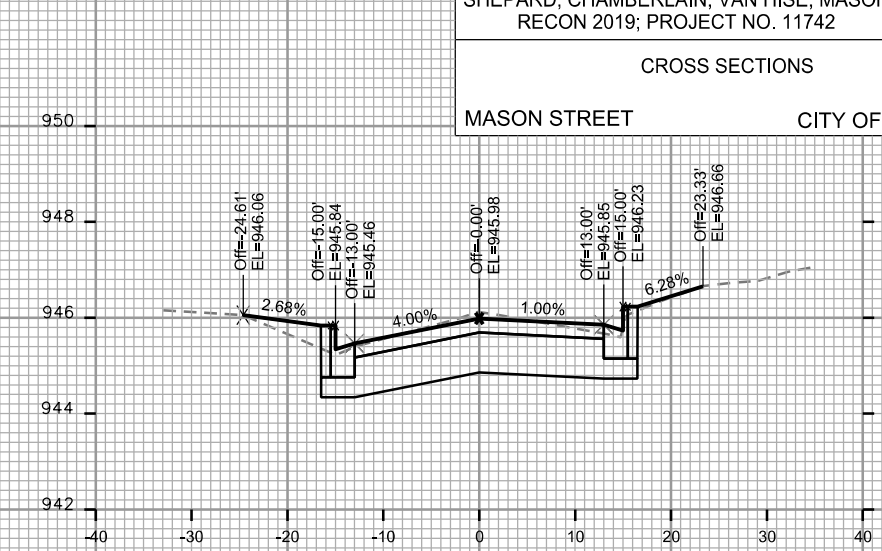
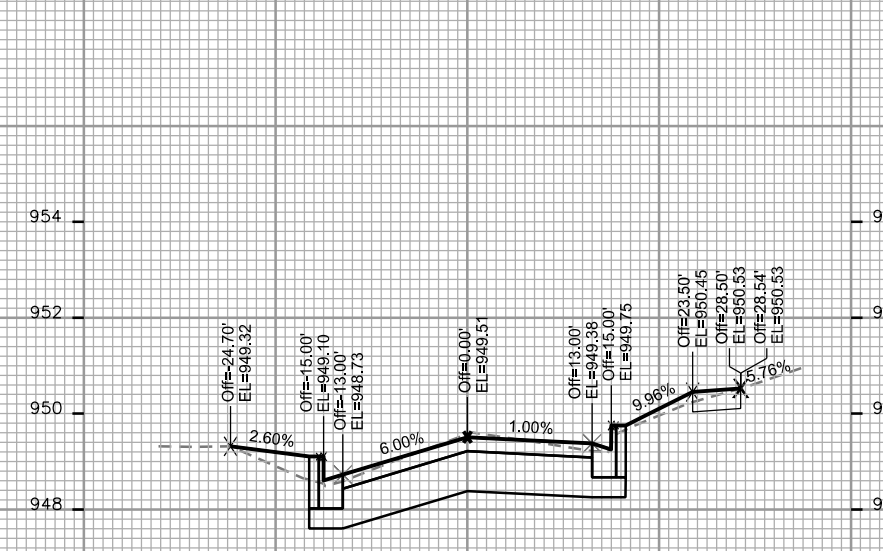
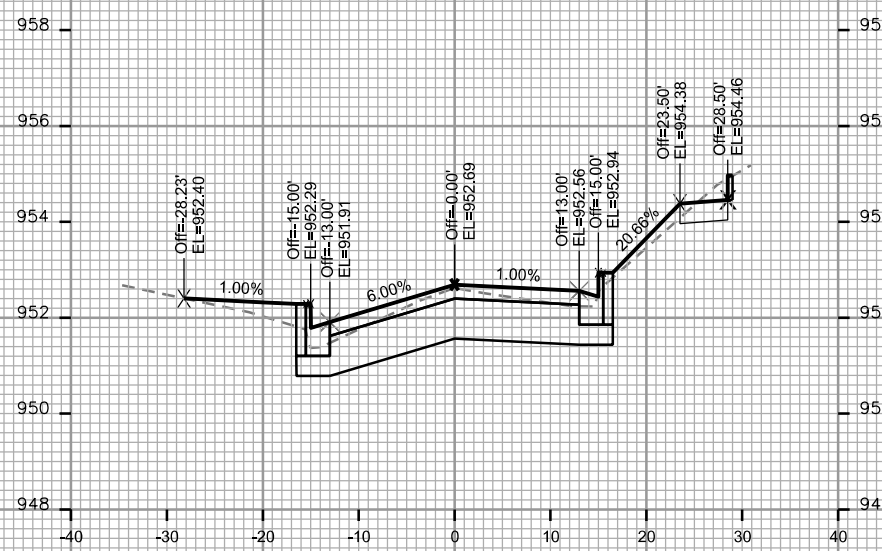


STA. 305+50



CROSS SECTIONS
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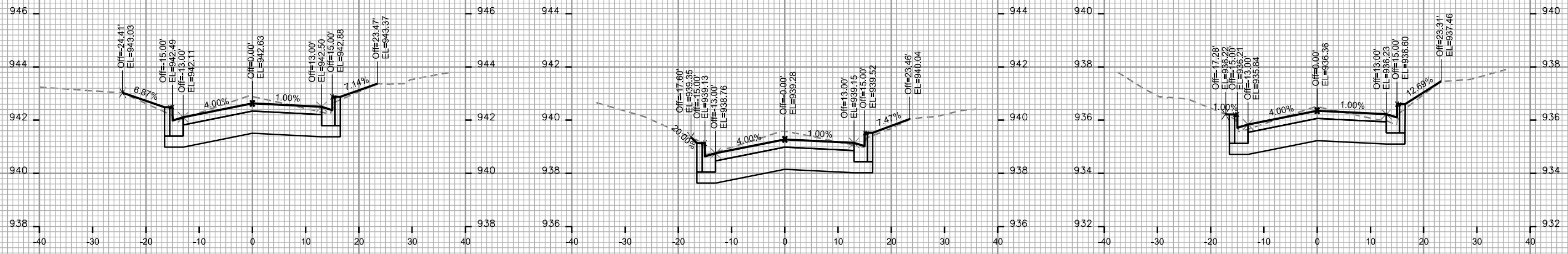
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REV. DATE: _____
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

MASON STREET

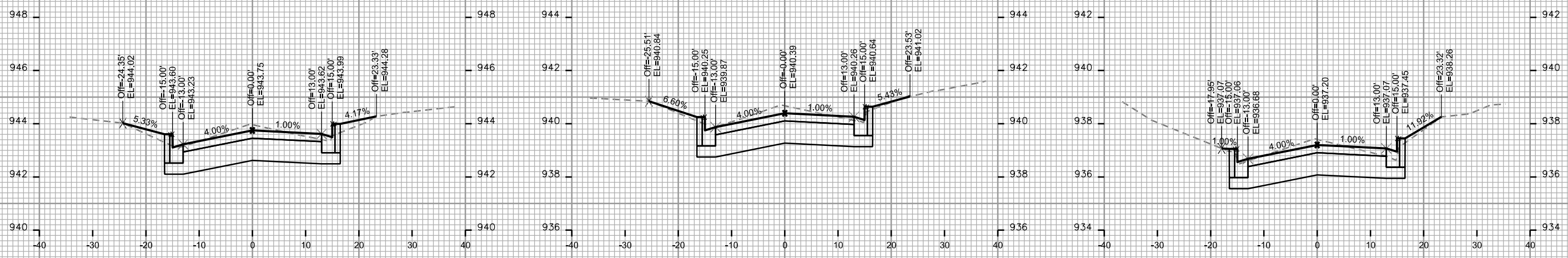
CITY OF MADISON



STA. 203+50

STA. 204+25

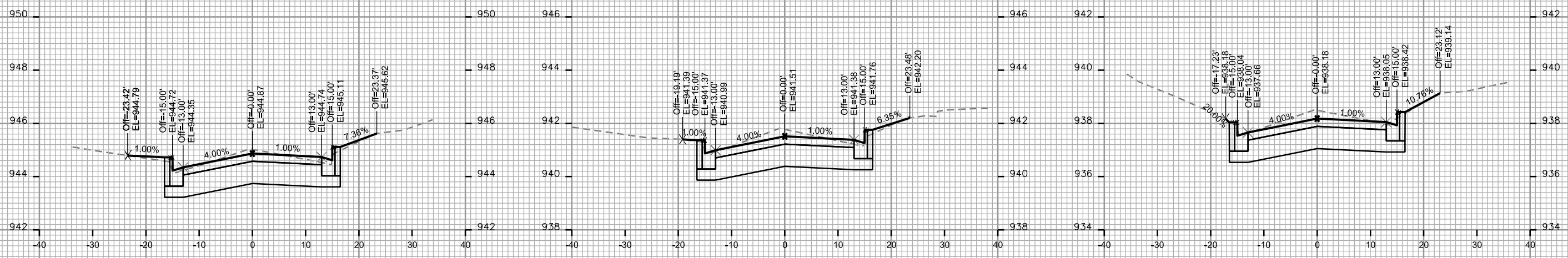
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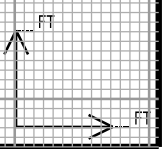
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STA. 203+00

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STA. 204+50



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

MASON STREET

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

