

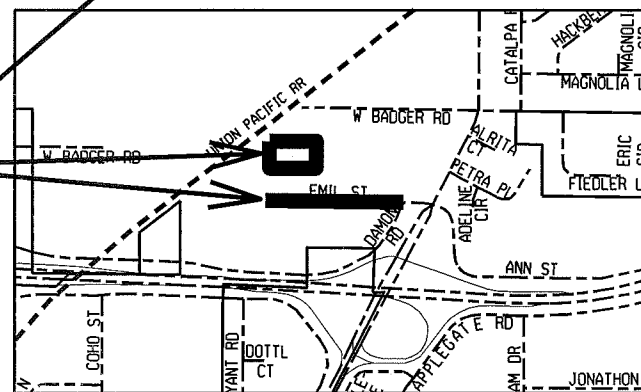
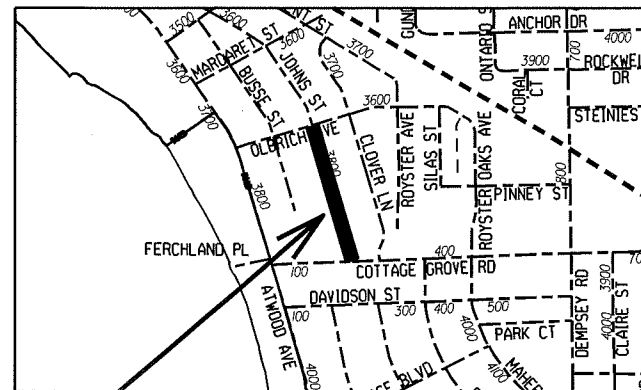
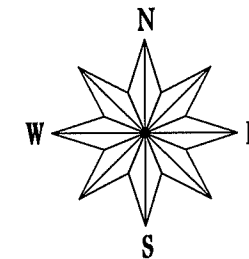
CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

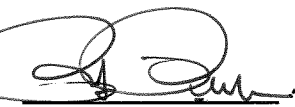
JOHNS STREET AND EMIL STREET UTILITIES WITH RESURFACING

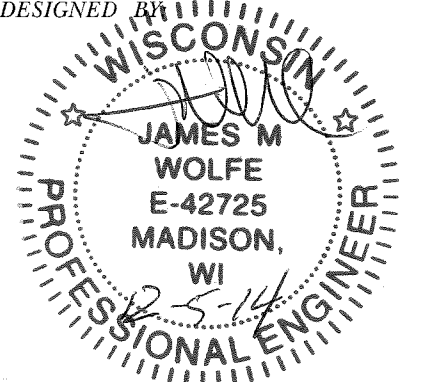
CITY PROJECT NO. 53W1792
CITY CONTRACT NO. 7381

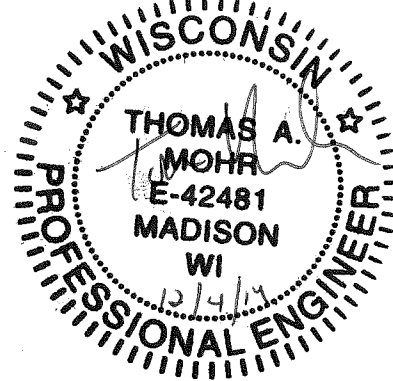


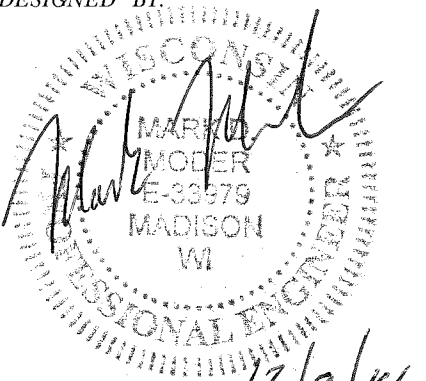
EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 2,875C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT..... 230C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 3,105C.Y.

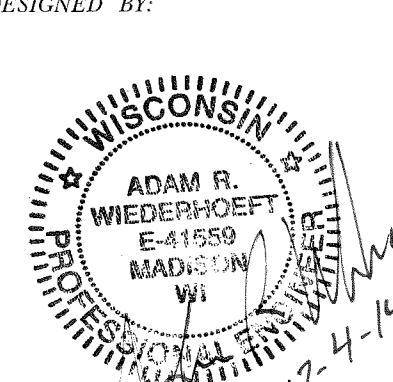
PUBLIC IMPROVEMENT PROJECT APPROVED
DECEMBER 2, 2014
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

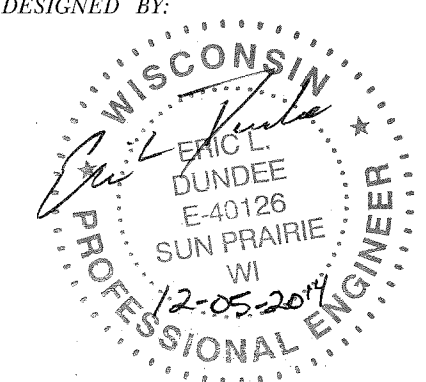
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer Date 12/9/14

STREET DESIGNED BY:

12-5-14

TRAFFIC CONTROL BY:

12/4/14

SANITARY SEWER DESIGNED BY:

12/9/14

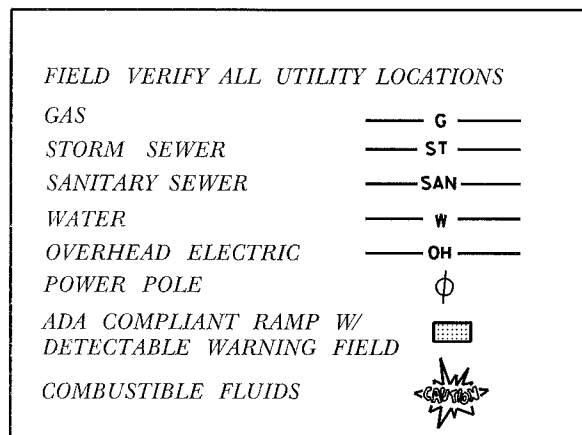
WATER DESIGNED BY:

12-4-14

STORM SEWER DESIGNED BY:

12-05-2014

INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
D1	JOHNS EROSION CONTROL PLANS
EC1-EC3	EMIL EROSION CONTROL PLANS
EC4-EC6	BADGER YARD EROSION CONTROL PLAN
EC7	JOHNS STREET PLAN & PROFILES
P1-P3	EMIL STREET PLAN & PROFILES
P4-P6	JOHNS UTILITY PLAN & PROFILES
U1-U3	JOHNS SEWER SCHEDULES
U4-U5	EMIL UTILITY PLAN & PROFILES
U6-U8	EMIL SEWER SCHEDULES
U9-U10	BADGER YARD UTILITY PLAN & SCHEDULE
U11-U18	JOHNS WATER PLAN & PROFILES
W1-W3	EMIL WATER PLAN & PROFILES
W4-6	WATER ESTIMATE OF MATERIALS
W7	WATER SYSTEM IMPACT PLANS
W8-W9	TRAFFIC CONTROL PLANS
TC1-TC4	JOHNS CROSS SECTIONS
X1-X7	EMIL CROSS SECTIONS
X8-X14	

CONVENTIONAL SIGNS



CONSTRUCTION PROJECT LOCATION

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%.

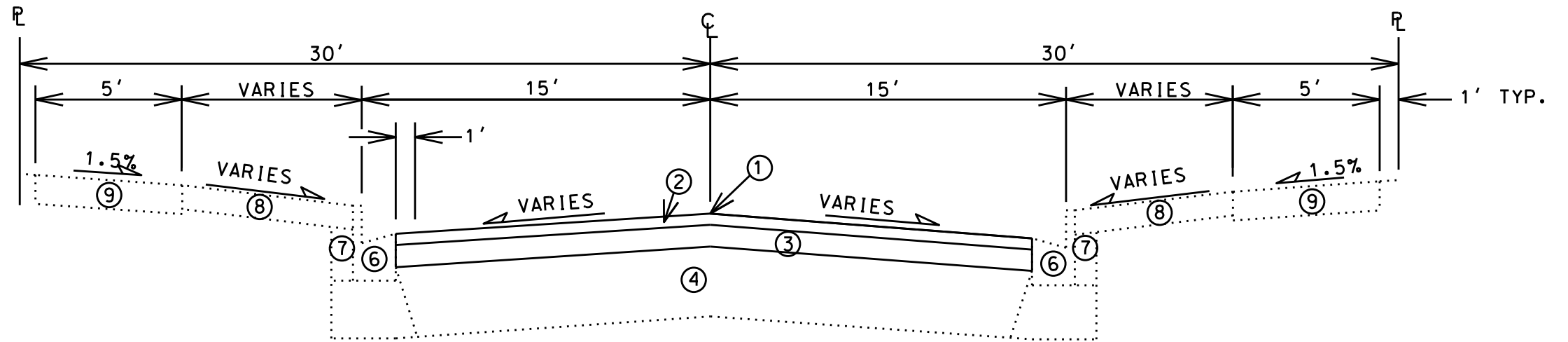
PLOT SCALE:

PLOT NAME:

REV. DATE:

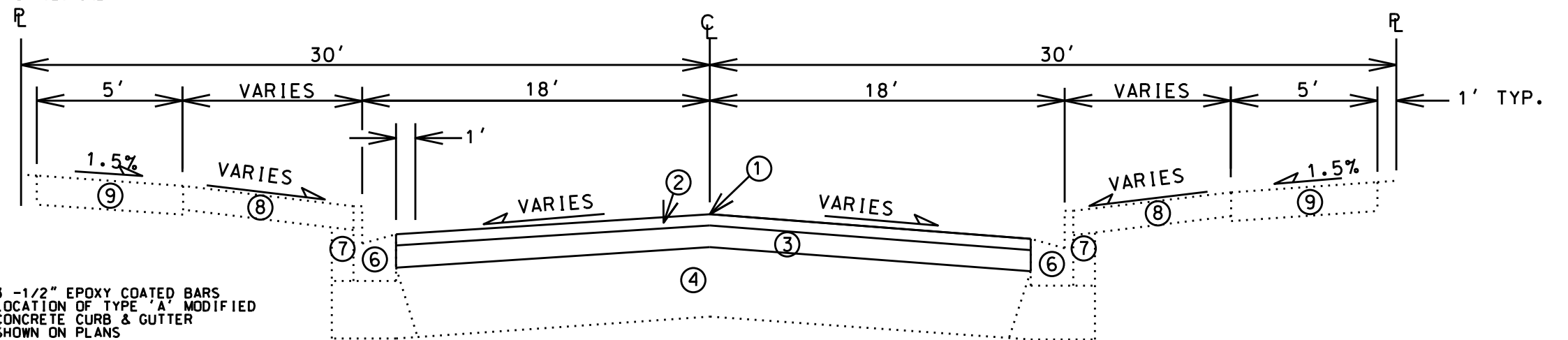
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

- ① POINT REFERRED TO ON PROFILE
- ② 1.75" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ③ 1.75" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ④ 10" GRADATION 2 OR GRADATION 3 (TOP 2" FOR LEVELING PURPOSES ONLY)
CRUSHED AGGREGATE BASE COURSE
- ⑥ TYPE 'A', 'G' OR 'X' CONCRETE CURB & GUTTER
- ⑦ FILL
- ⑧ 4" TOPSOIL & SEED & MATTING
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN

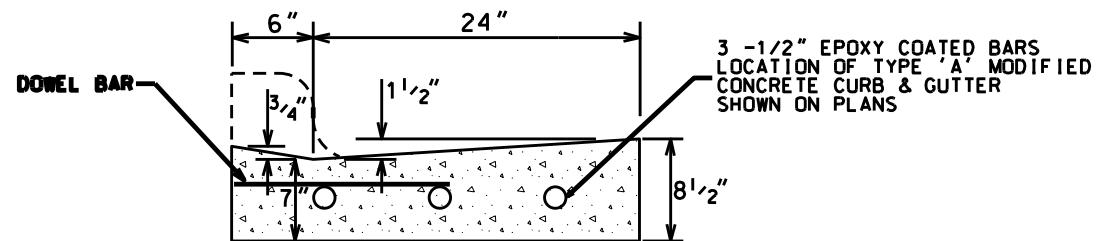


TYPICAL FINISHED SECTION
JOHNS STREET - STA. 53+50 - STA. 63+95

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ③ 2.25" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ④ 10" GRADATION 2 OR GRADATION 3 (TOP 2" FOR LEVELING PURPOSES ONLY)
CRUSHED AGGREGATE BASE COURSE
- ⑥ TYPE 'A', 'G' OR 'X' CONCRETE CURB & GUTTER
- ⑦ FILL
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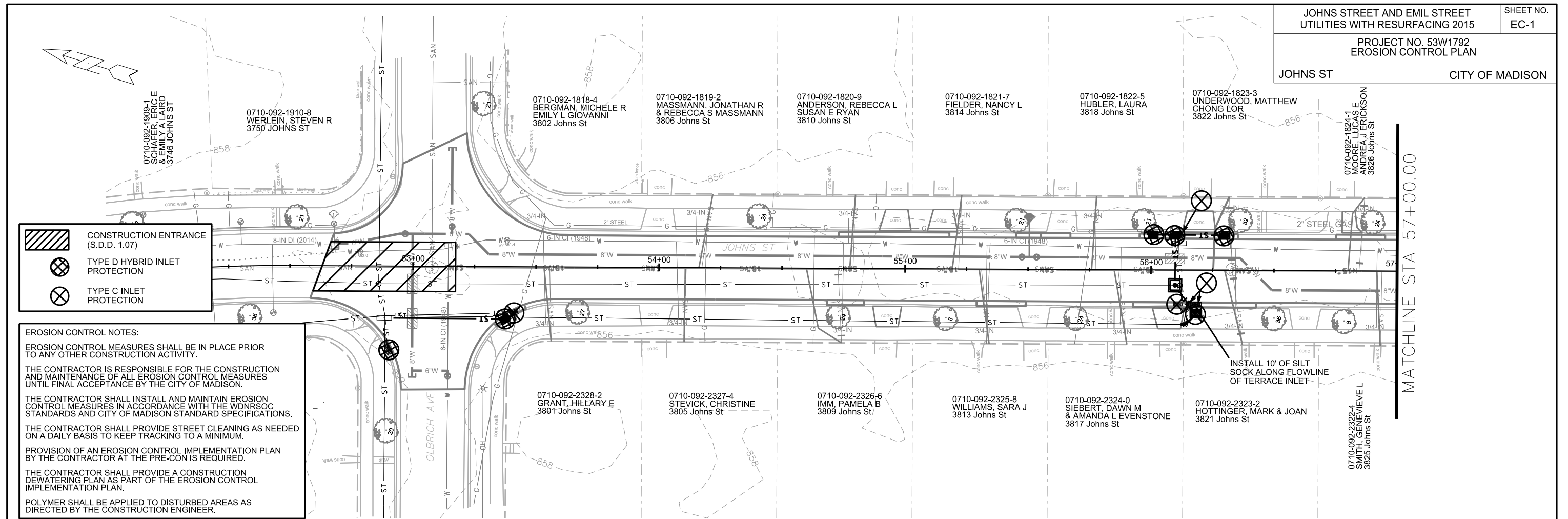


TYPICAL FINISHED SECTION
EMIL STREET - STA. 10+80 - STA. 21+25



DRIVEWAY SECTION TYPE 'A' MODIFIED
CONCRETE CURB & GUTTER
(PAY AS TYPE 'A' MODIFIED CURB AND GUTTER)

TYPICAL SECTIONS NOT TO SCALE



CONSTRUCTION ENTRANCE (S.D.D. 1.07)

TYPE D HYBRID INLET PROTECTION

TYPE C 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 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.

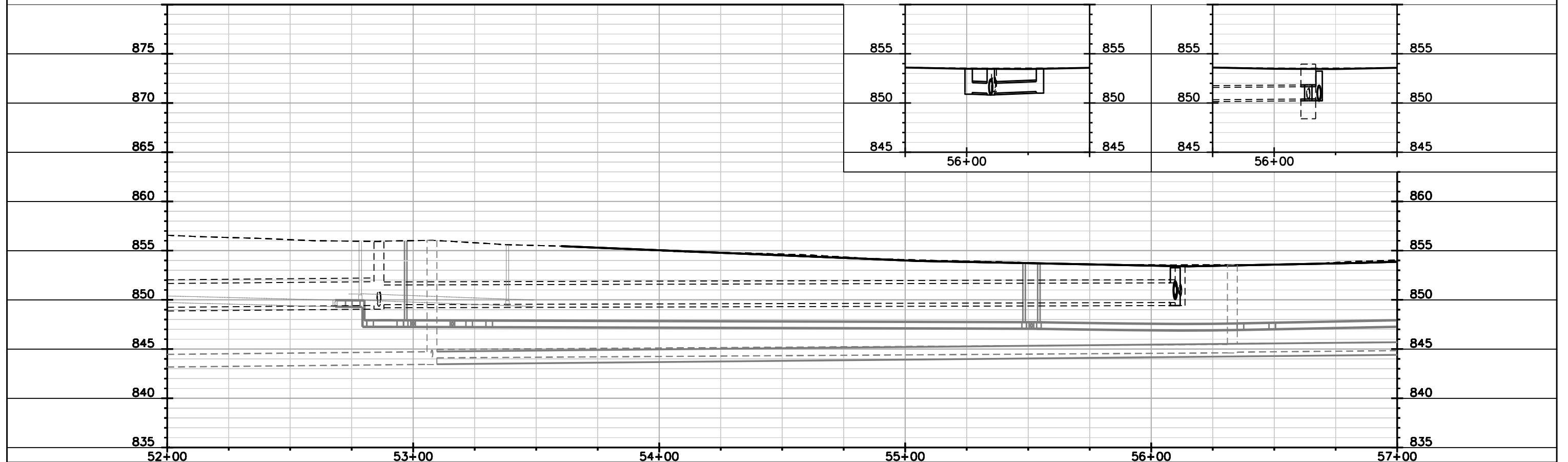
PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

INSTALL 10' OF SILT SOCK ALONG FLOWLINE OF TERRACE INLET

MATCHLINE STA 57+00.00

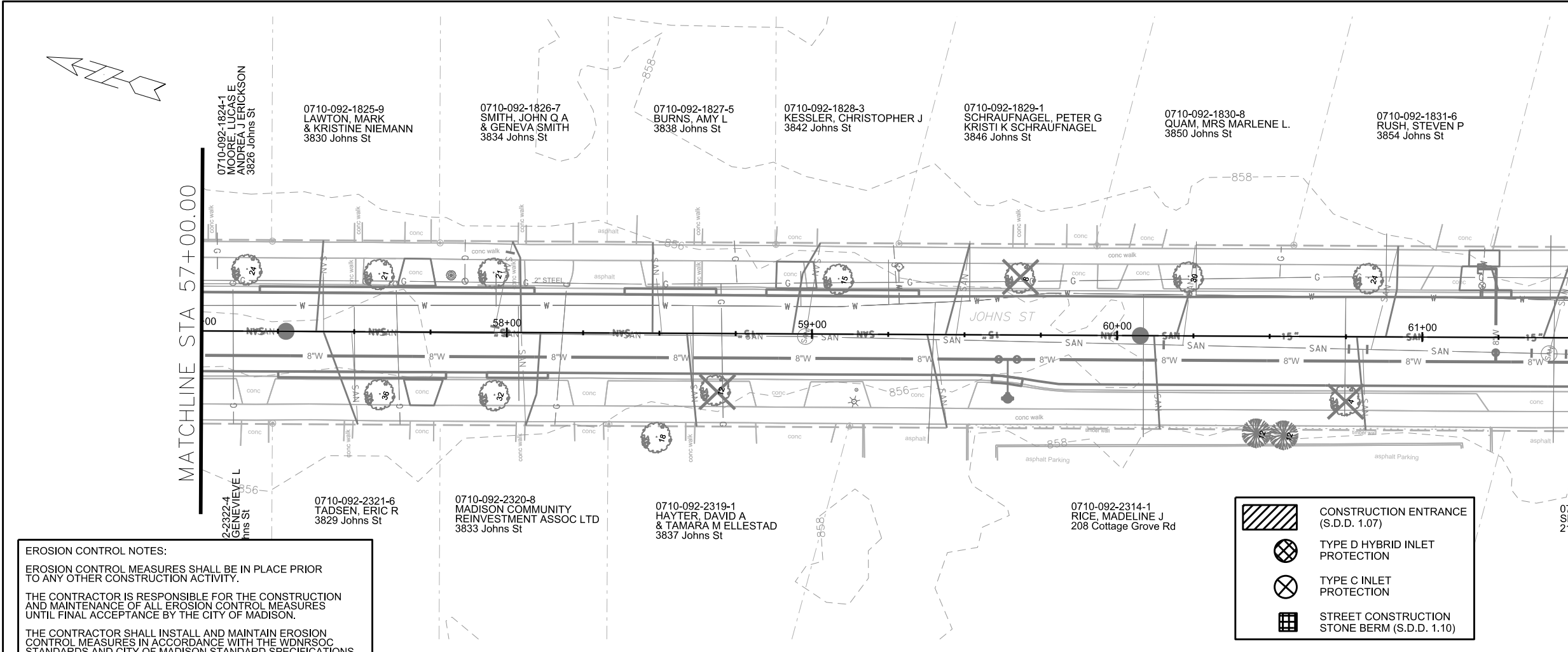


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PLOT NAME: _____

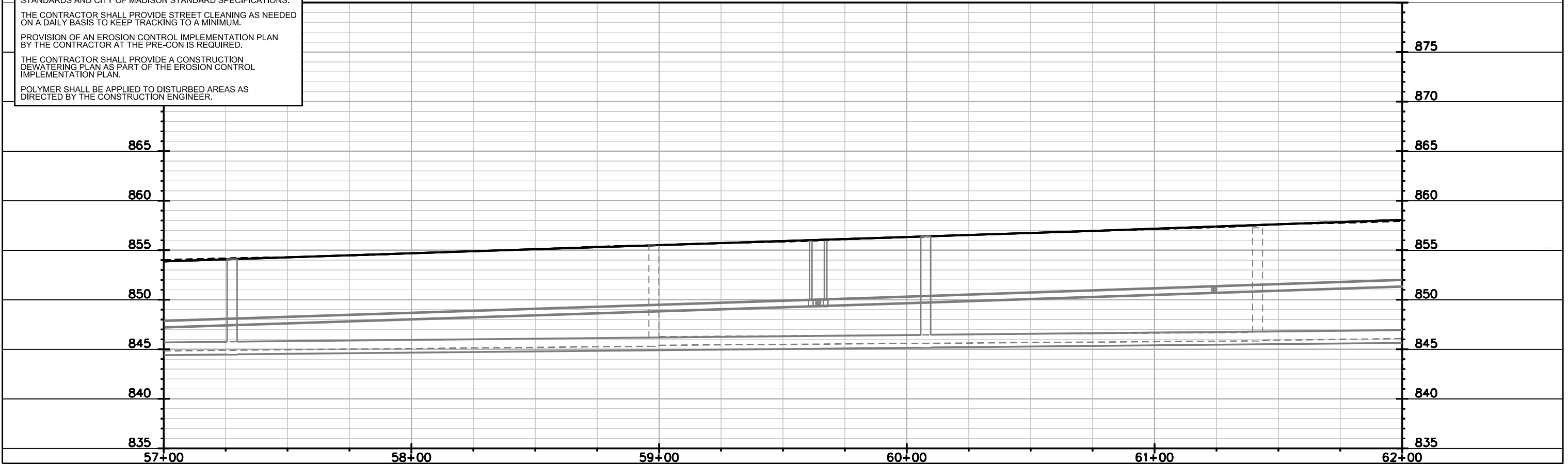
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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	CONSTRUCTION ENTRANCE (S.D.D. 1.07)
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)



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

EROSION CONTROL NOTES:

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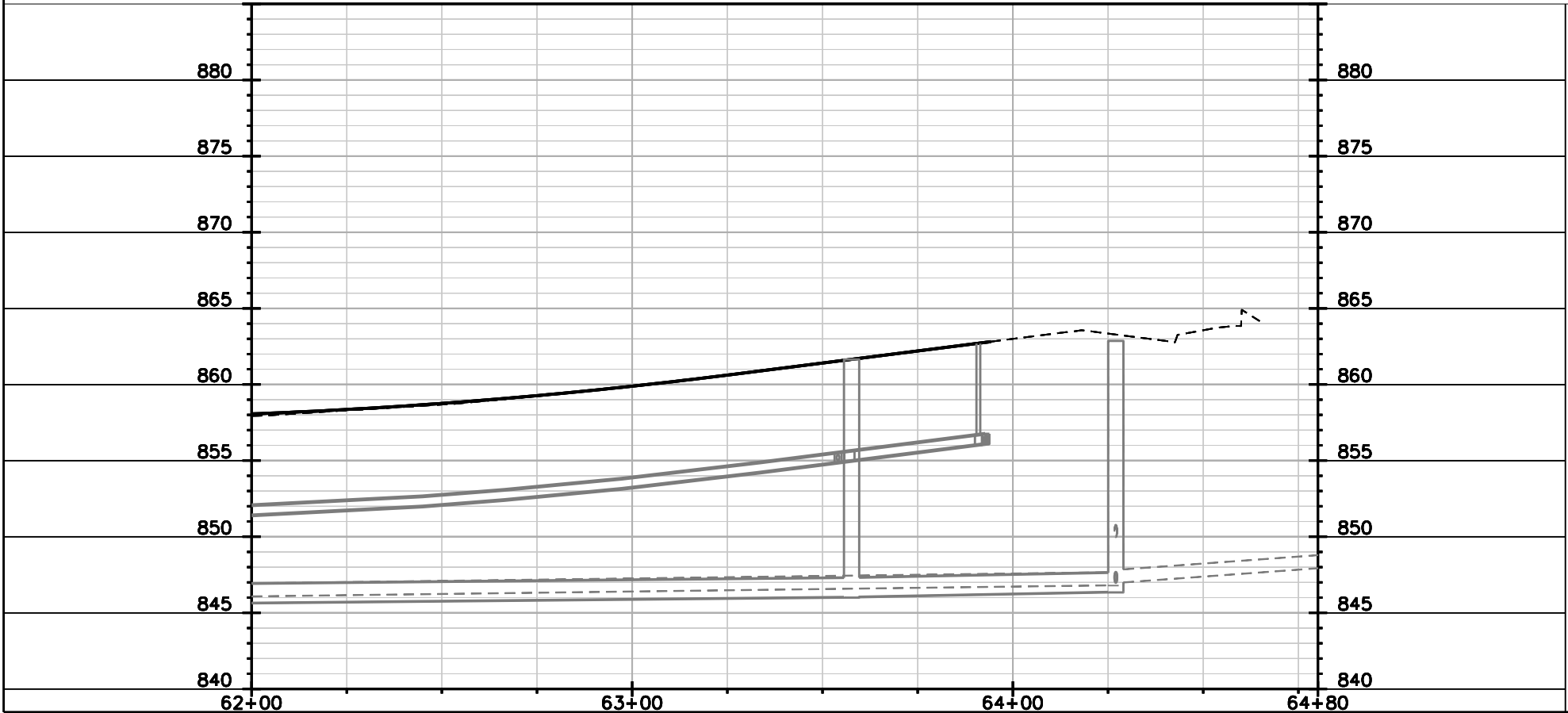
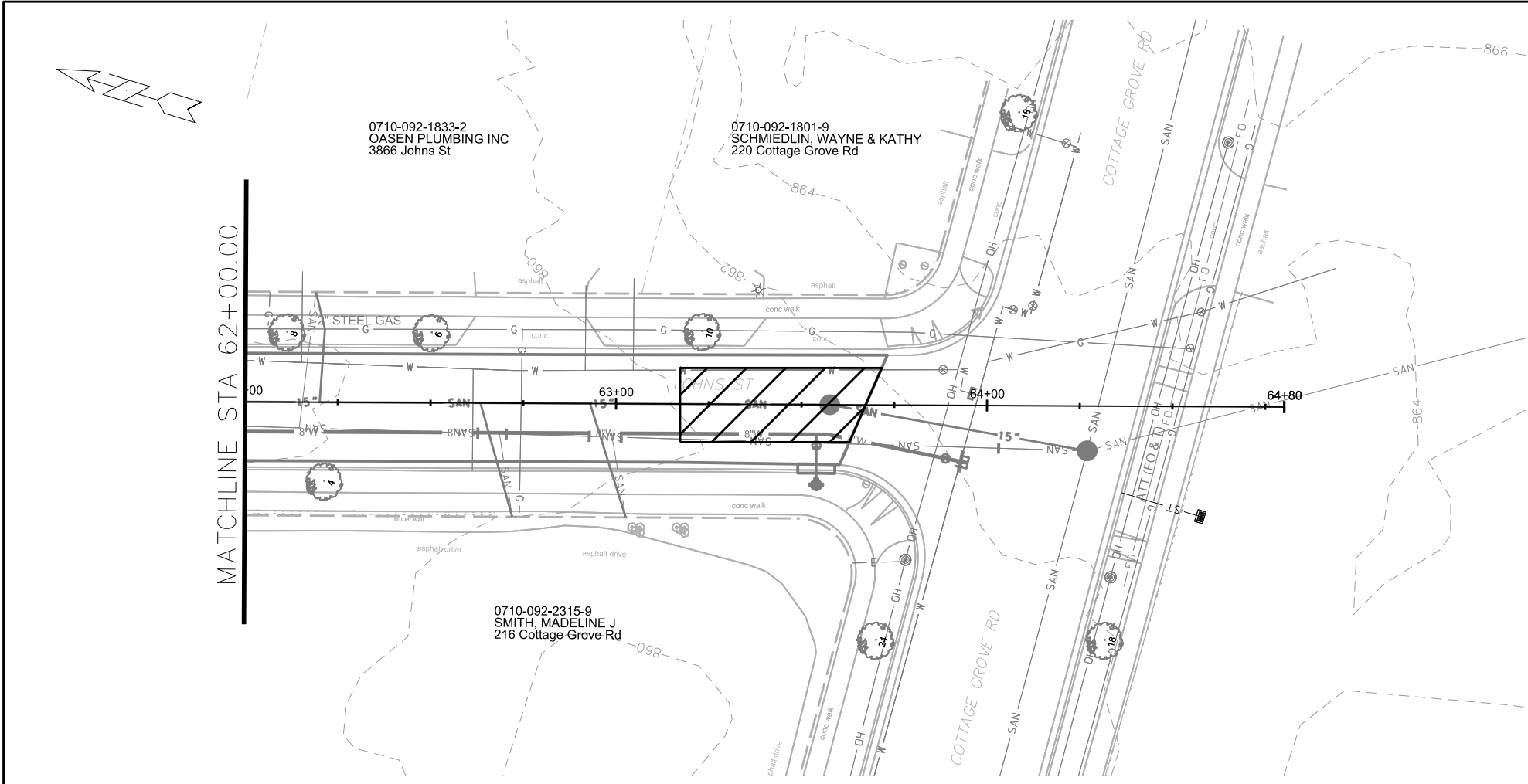
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- | | |
|---|--|
|  | CONSTRUCTION ENTRANCE (S.D.D. 1.07) |
|  | TYPE D HYBRID INLET PROTECTION |
|  | TYPE C INLET PROTECTION |
|  | STREET CONSTRUCTION STONE BERM (S.D.D. 1.10) |






PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

-  CONSTRUCTION ENTRANCE (S.D.D. 1.07)
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C MODIFIED INLET PROTECTION

0709-344-0505-6
LIVESEY MDC LLC
1800 W BELTLINE HWY

0709-344-0101-2
CITY OF MADISON ENGINEER
ENGINEERING SERVICE BLDG
1602 EMIL ST

COORDINATE SIDEWALK
REPLACEMENT WITH
ENGINEERING OPERATIONS

10" CONCRETE PAVEMENT

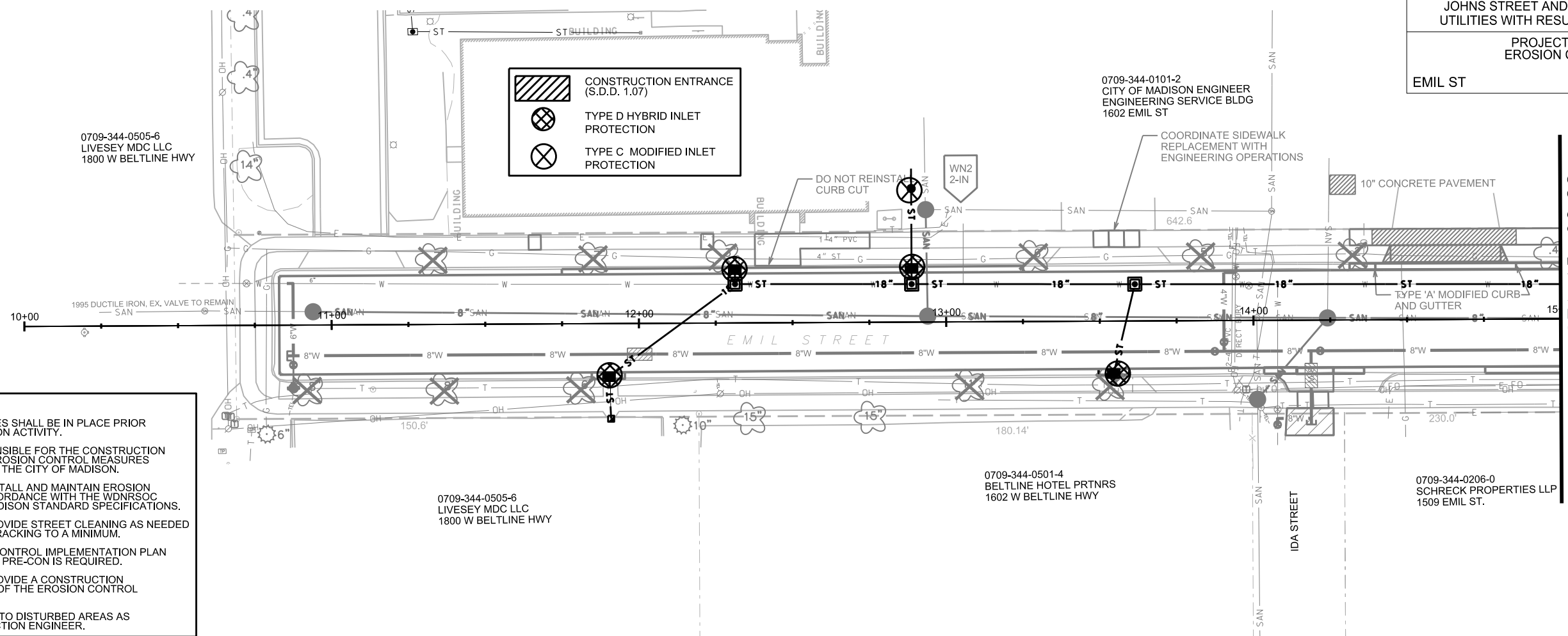
MATCHLINE STA 15+00.00

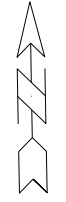
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0709-344-0505-6
LIVESEY MDC LLC
1800 W BELTLINE HWY

0709-344-0501-4
BELTLINE HOTEL PRTRNS
1602 W BELTLINE HWY

0709-344-0206-0
SCHRECK PROPERTIES LLP
1509 EMIL ST.





 TYPE D HYBRID INLET PROTECTION

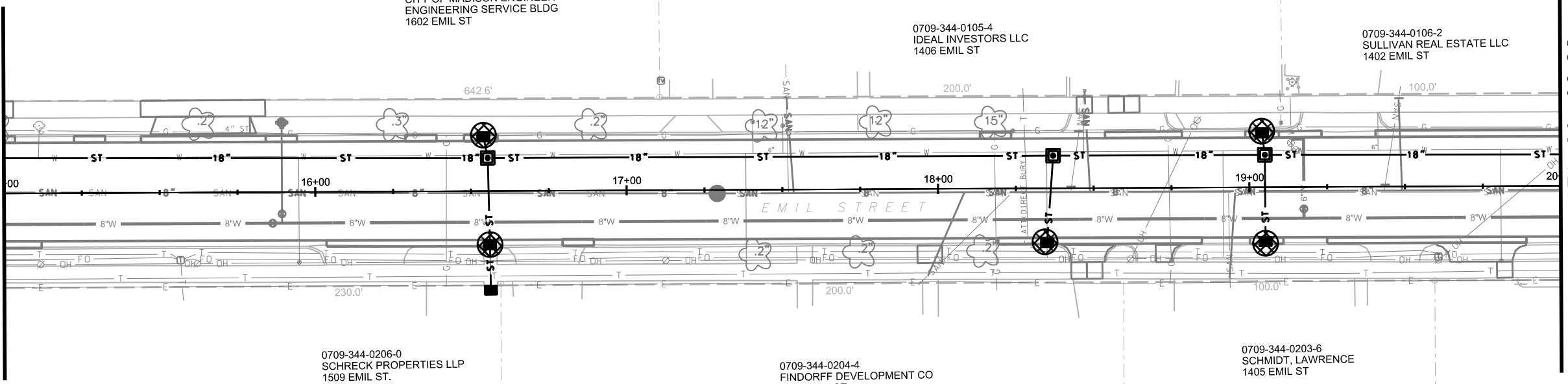
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CITY OF MADISON ENGINEER
ENGINEERING SERVICE BLDG
1602 EMIL ST

0709-344-0105-4
IDEAL INVESTORS LLC
1406 EMIL ST

0709-344-0106-2
SULLIVAN REAL ESTATE LLC
1402 EMIL ST

MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00



0709-344-0206-0
SCHRECK PROPERTIES LLP
1509 EMIL ST.

0709-344-0204-4
FINDORFF DEVELOPMENT CO
1409 EMIL ST.

0709-344-0203-6
SCHMIDT, LAWRENCE
1405 EMIL ST

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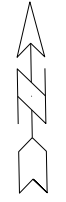


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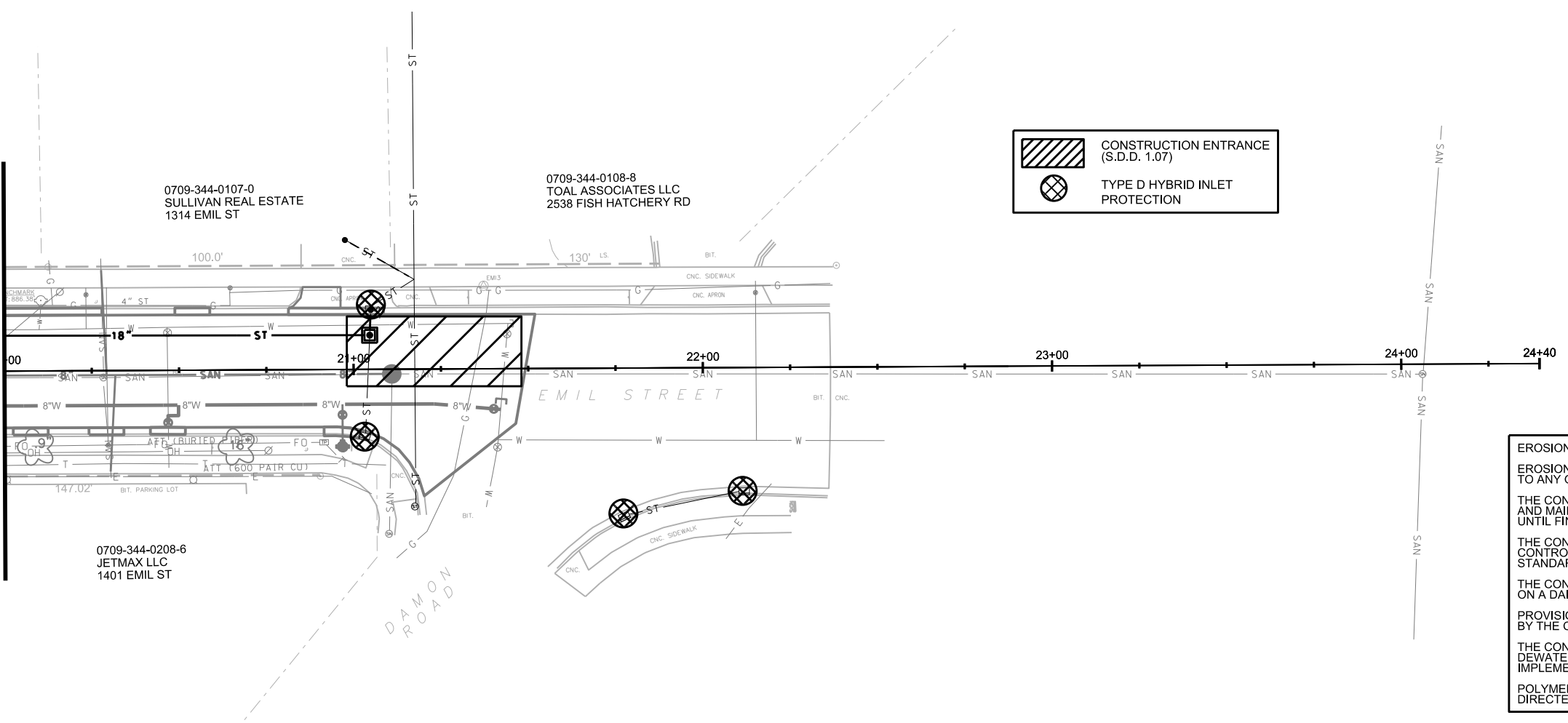
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 20+00.00



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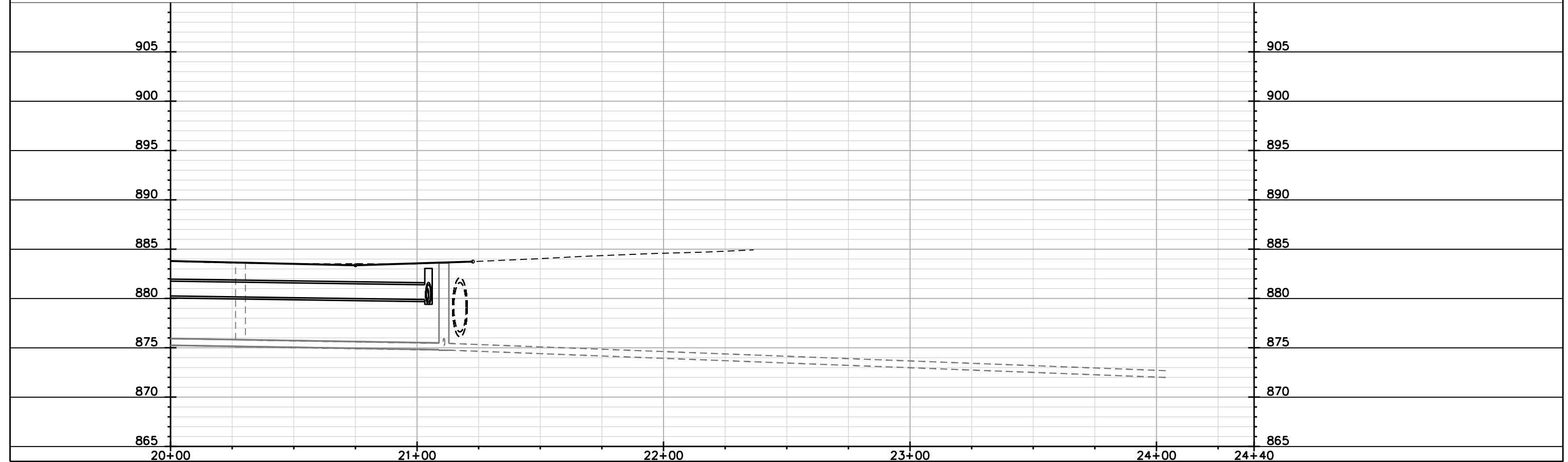
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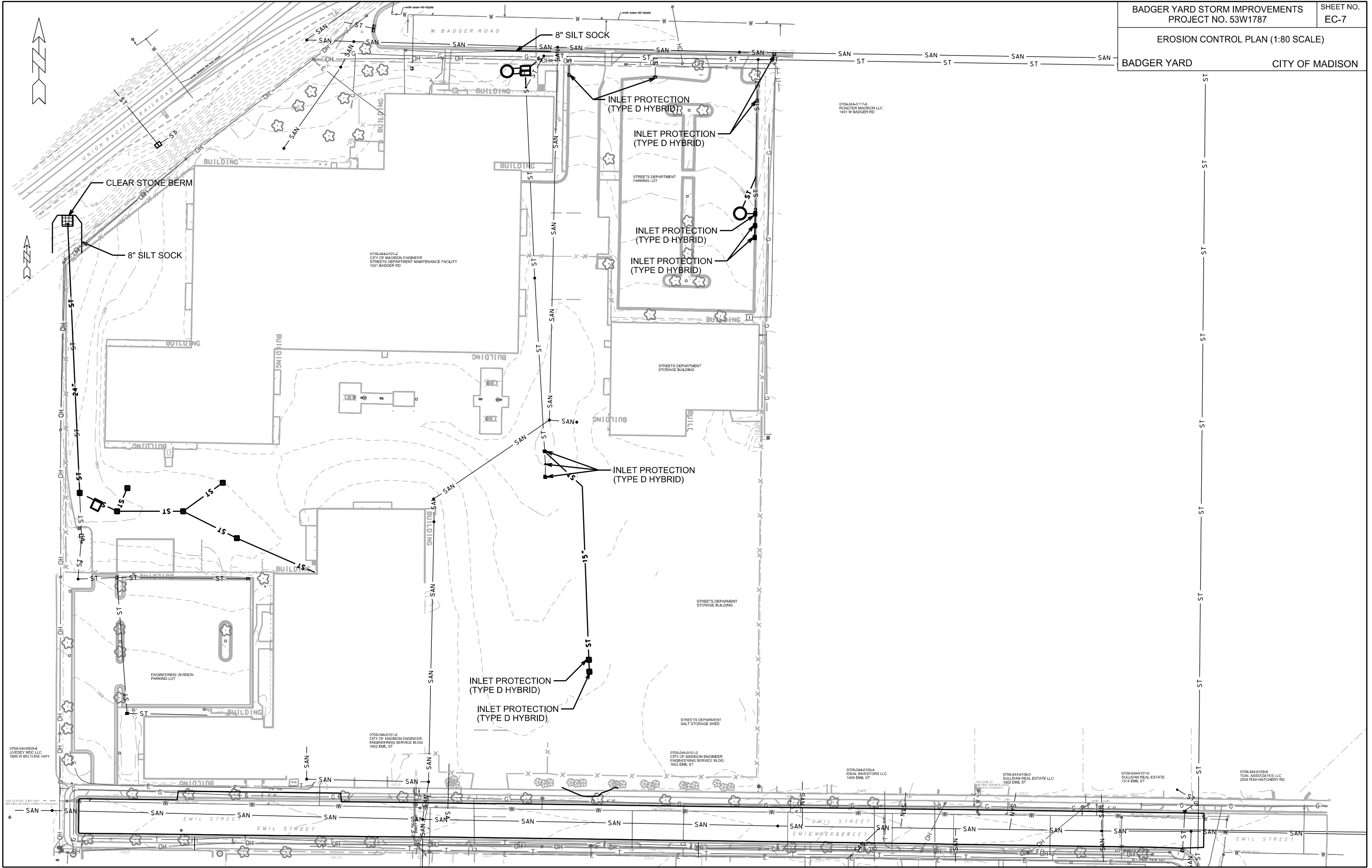


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

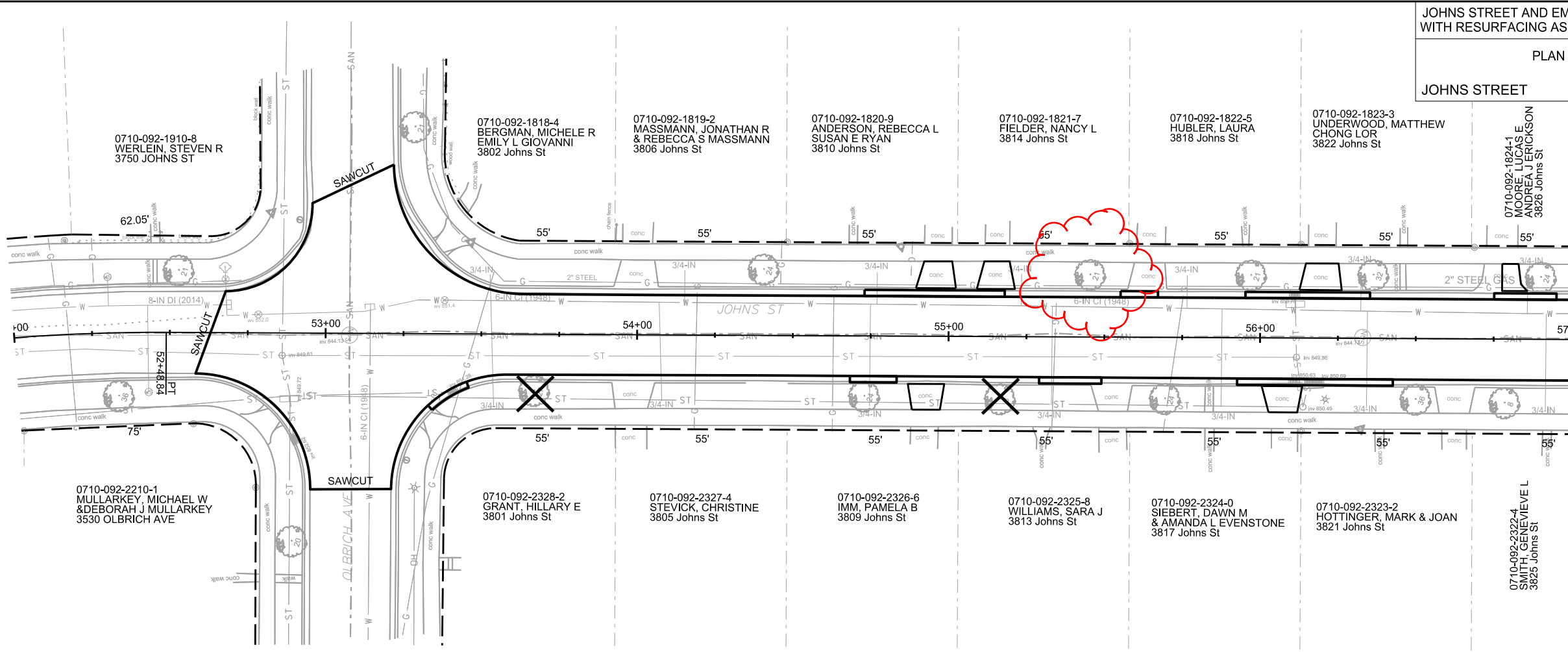
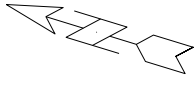


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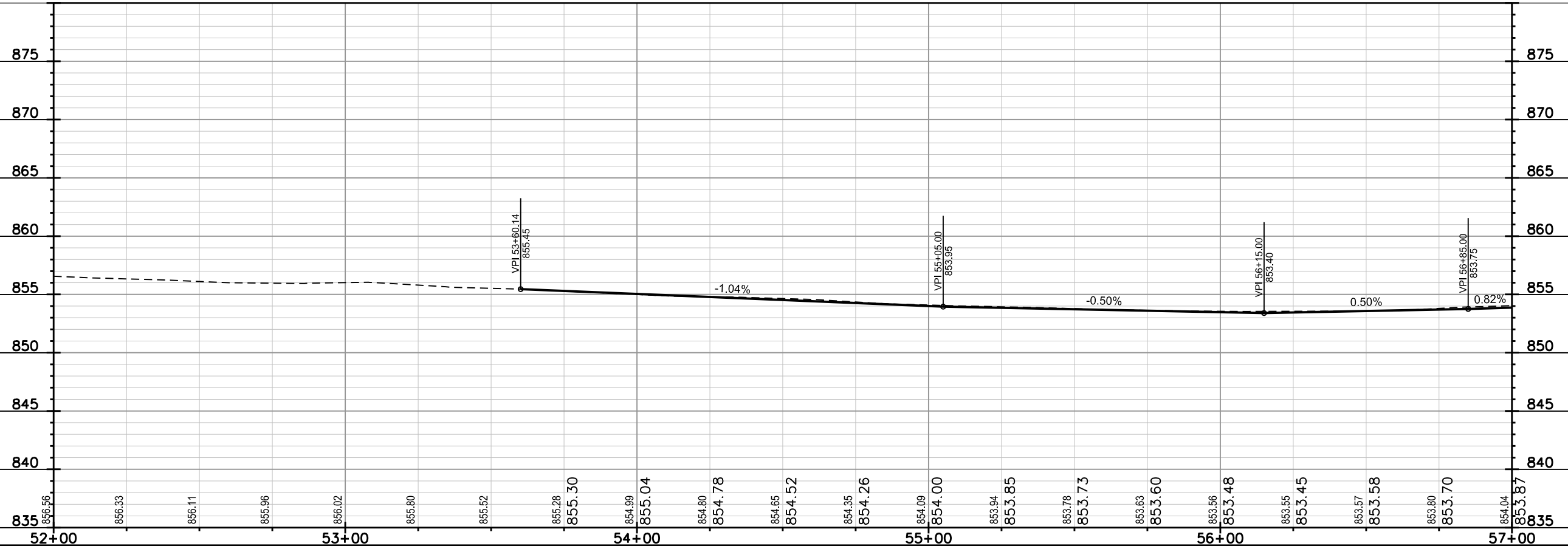
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 57+00.00

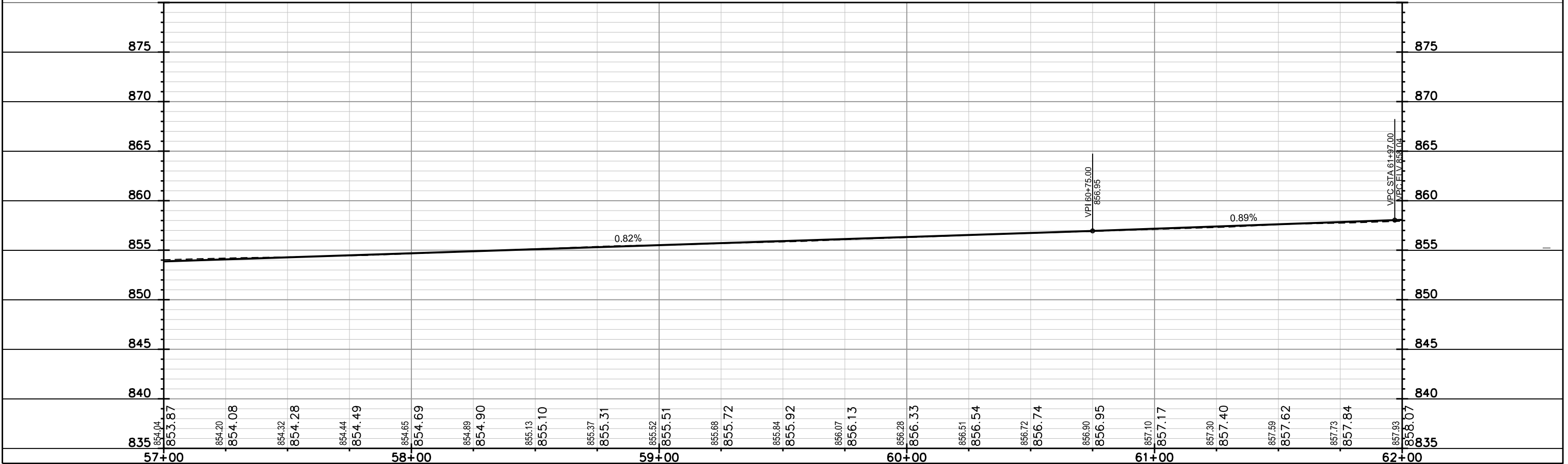
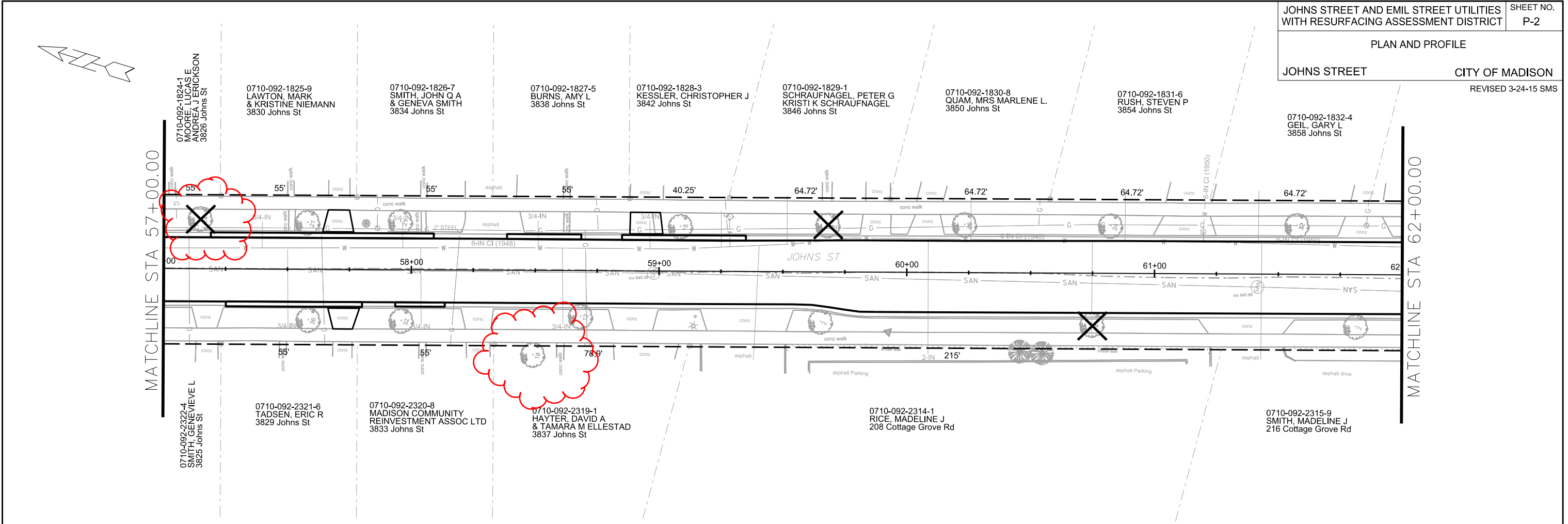


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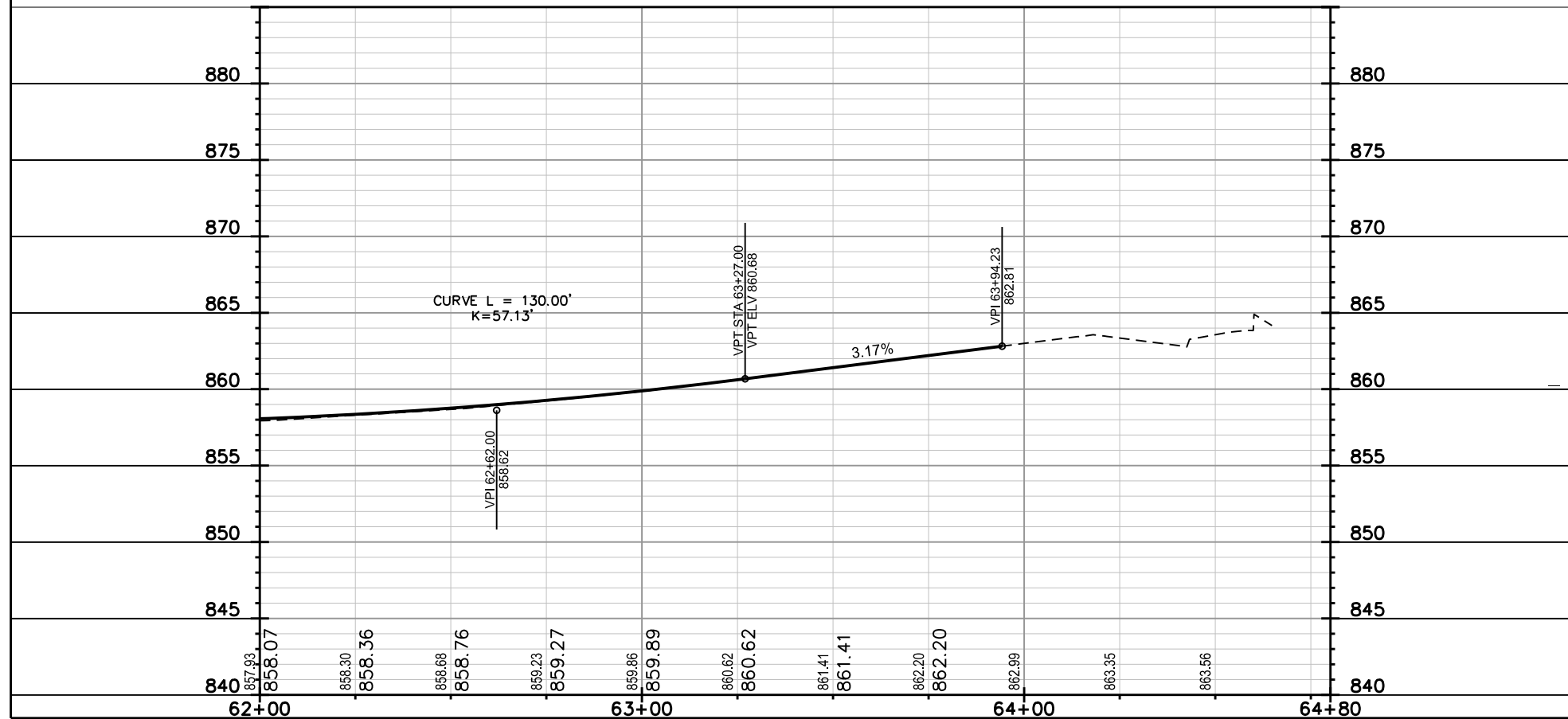
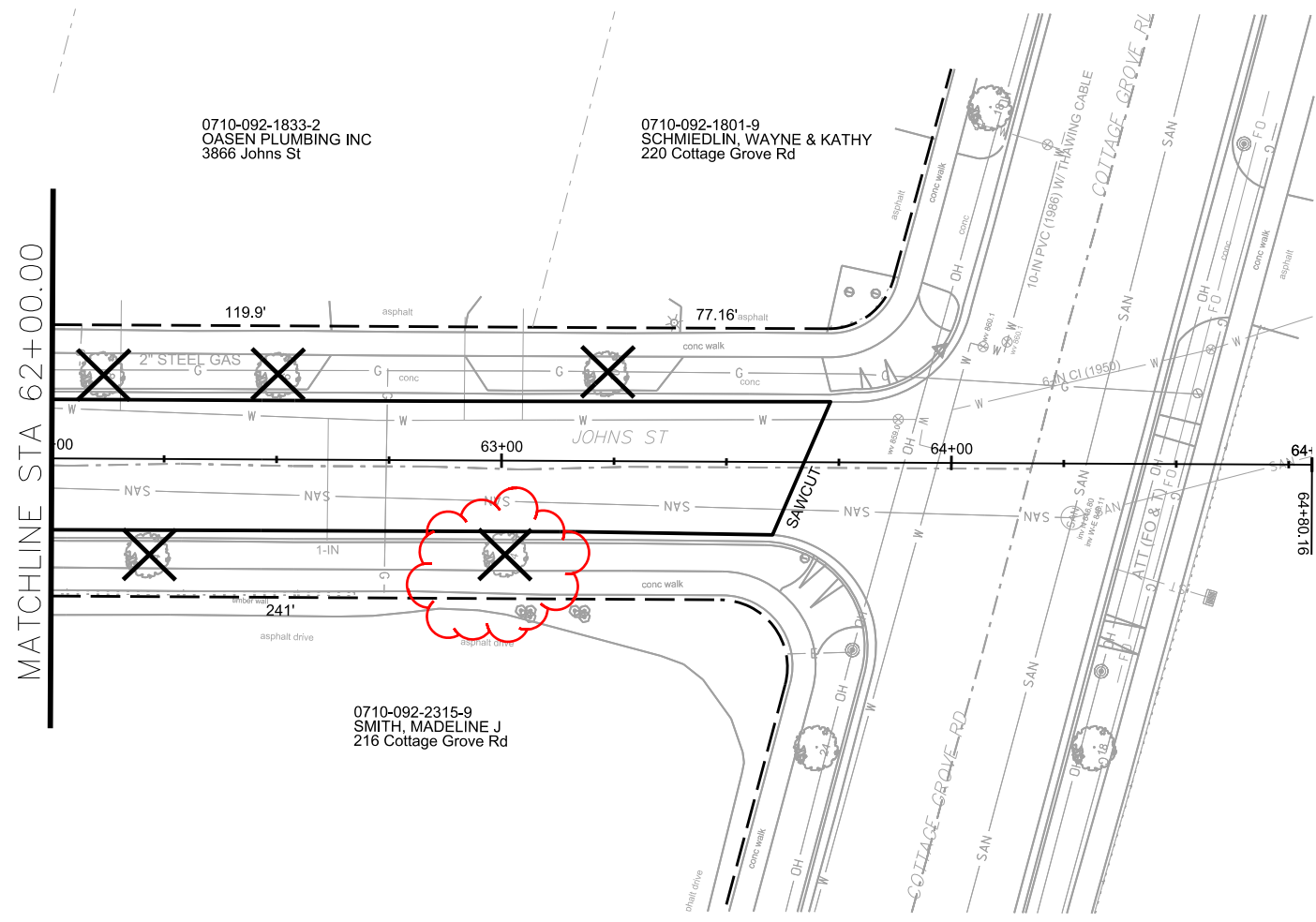
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____
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PLAN AND PROFILE

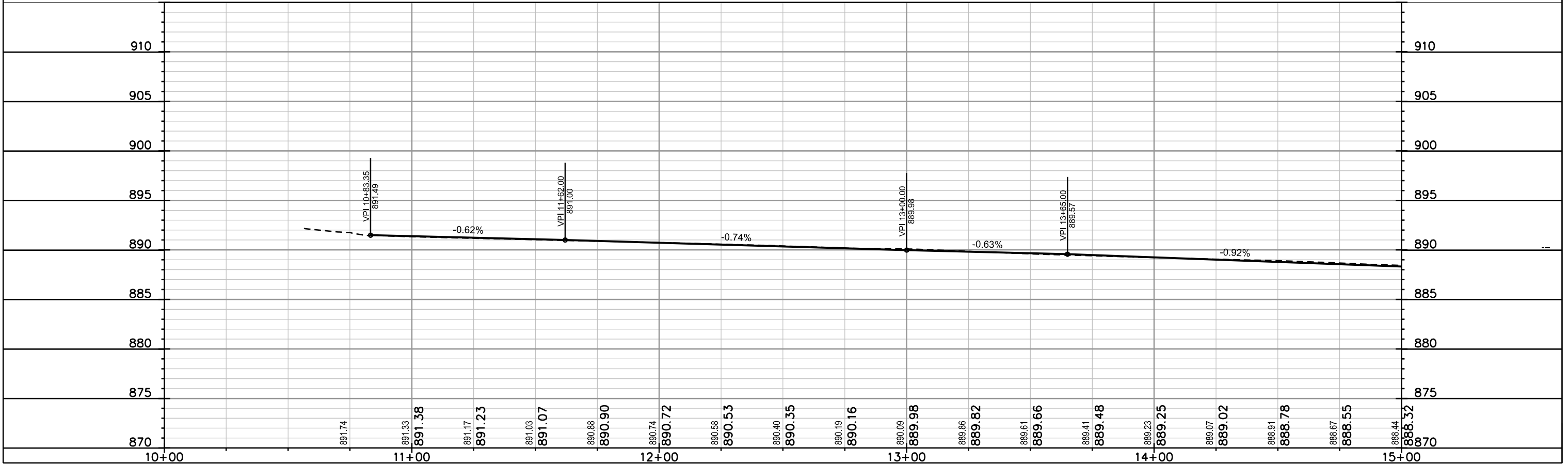
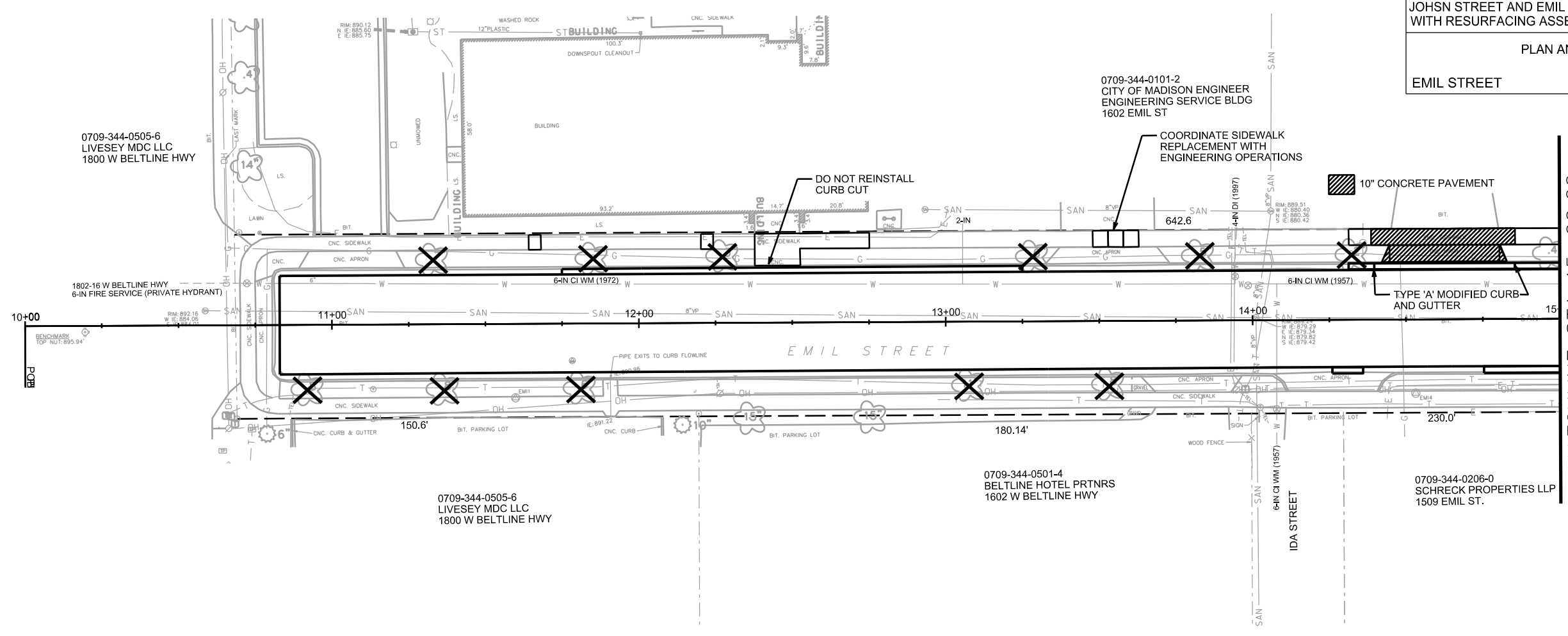


PLOT SCALE: _____

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



0709-344-0101-2
CITY OF MADISON ENGINEER
ENGINEERING SERVICE BLDG
1602 EMIL ST

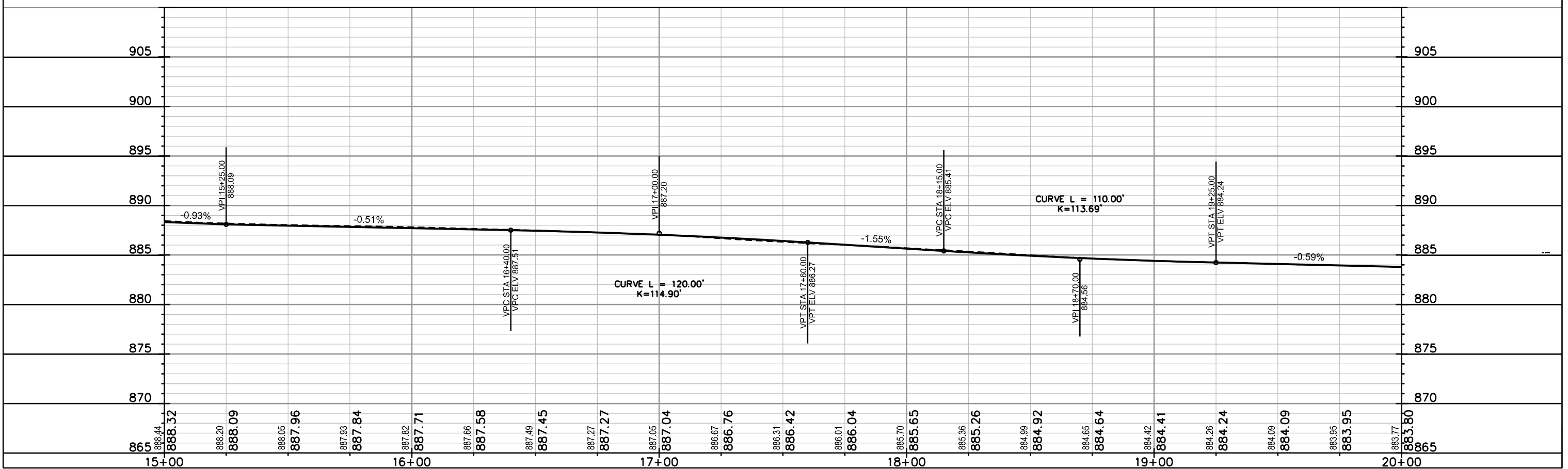
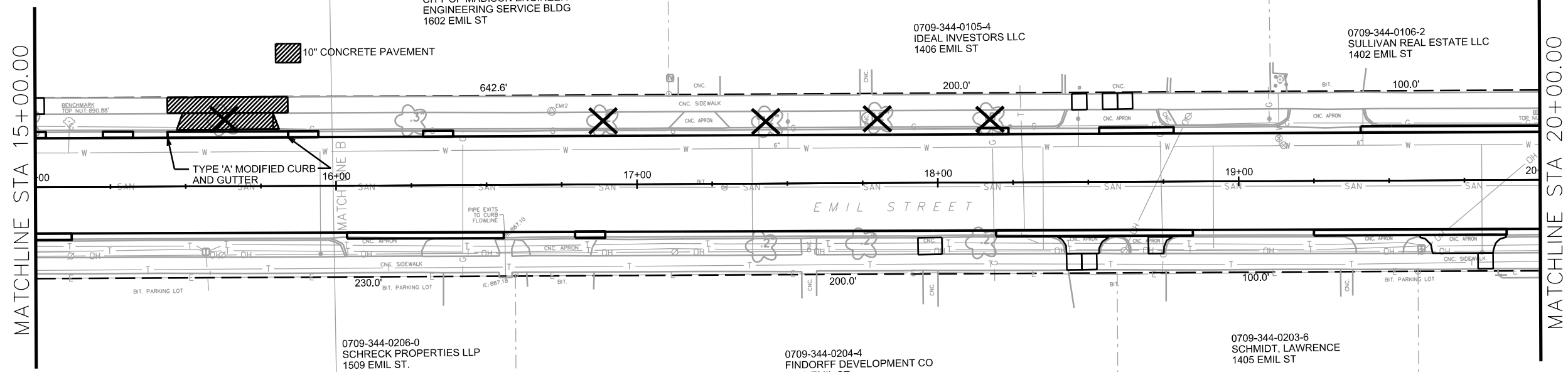
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1406 EMIL ST

0709-344-0106-2
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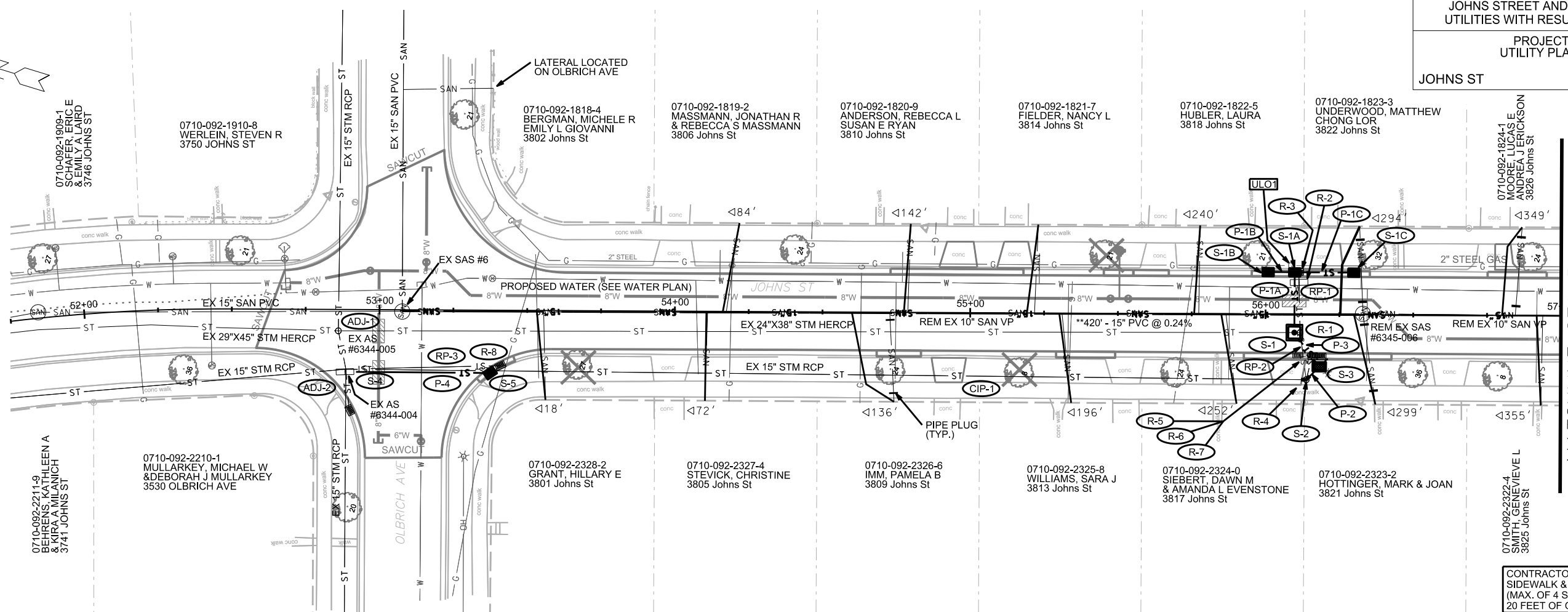
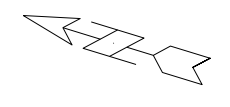


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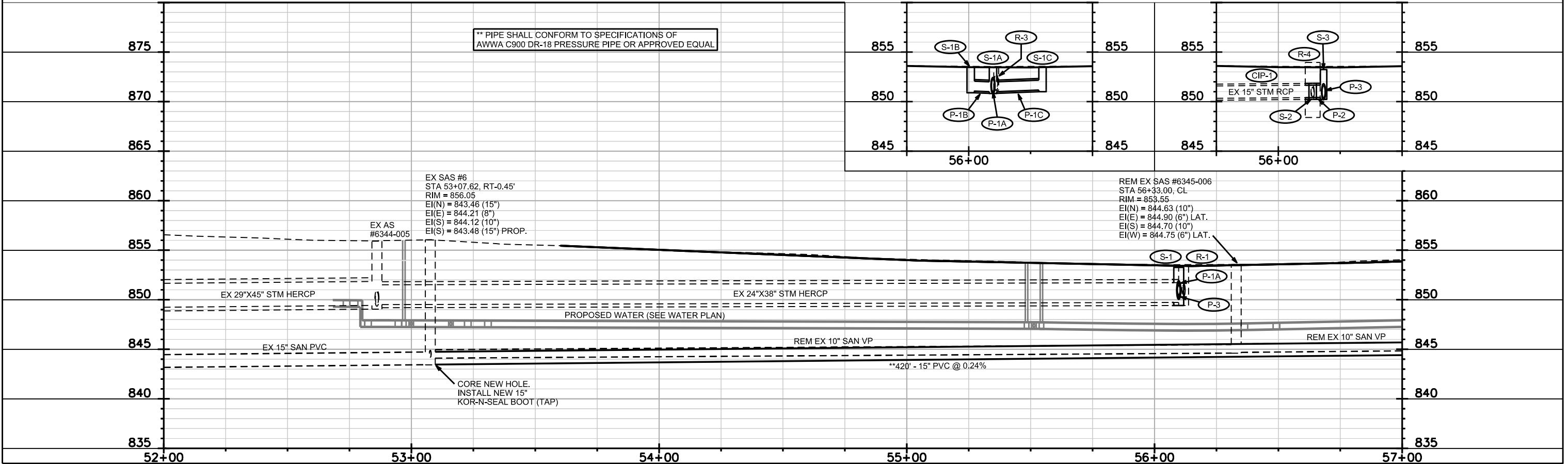
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)

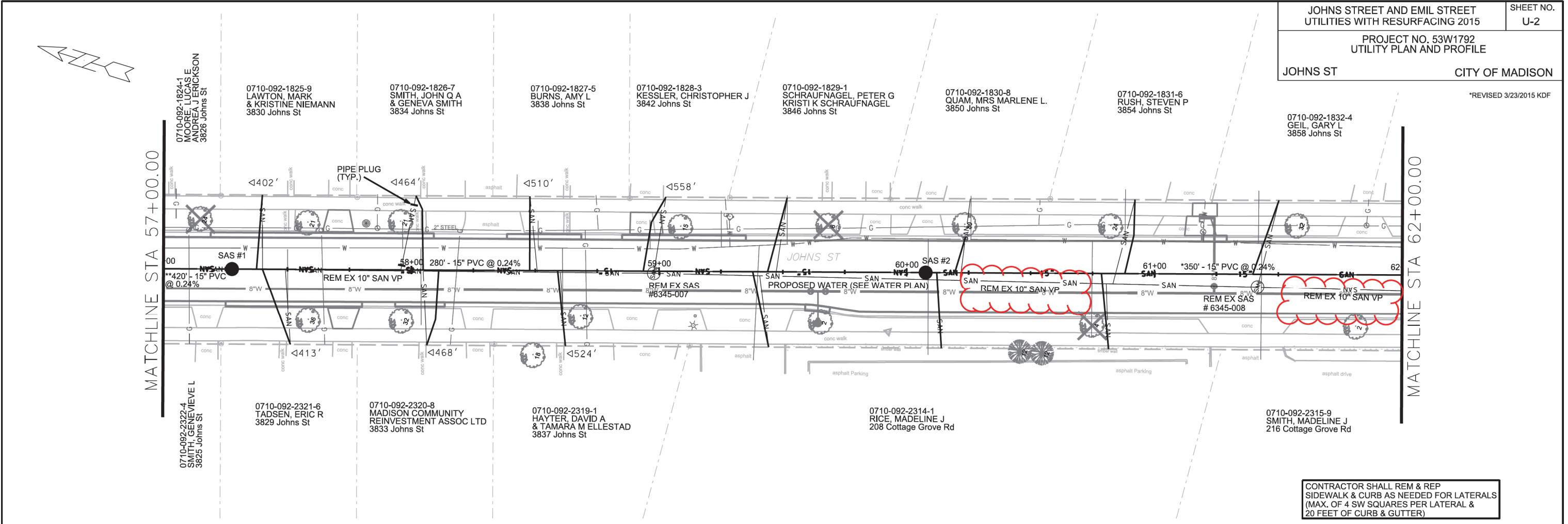


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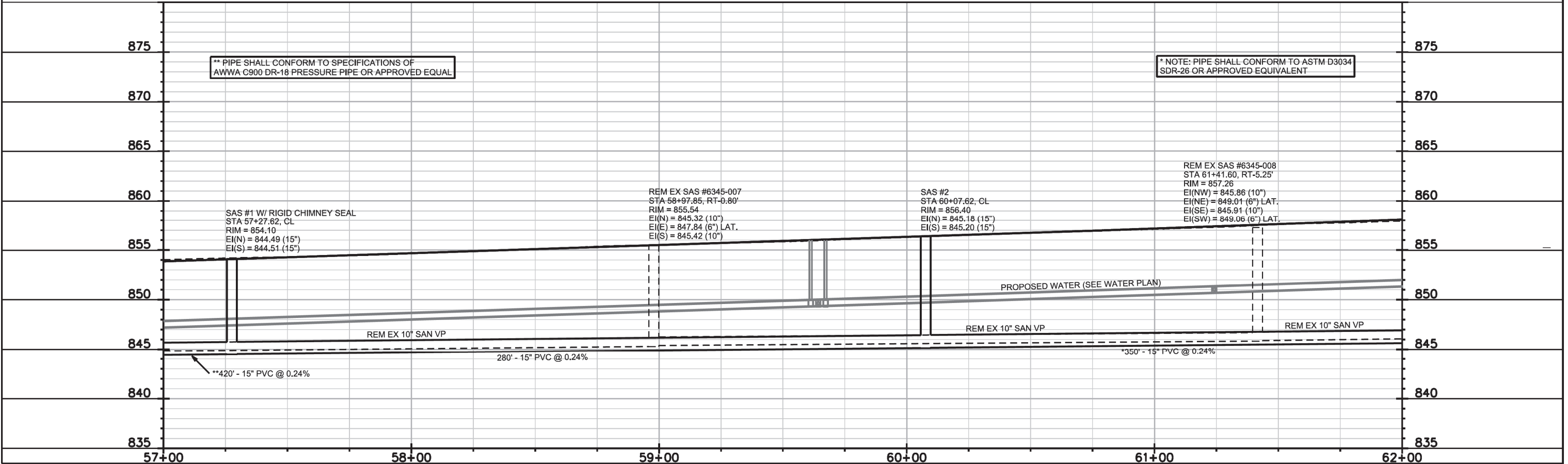
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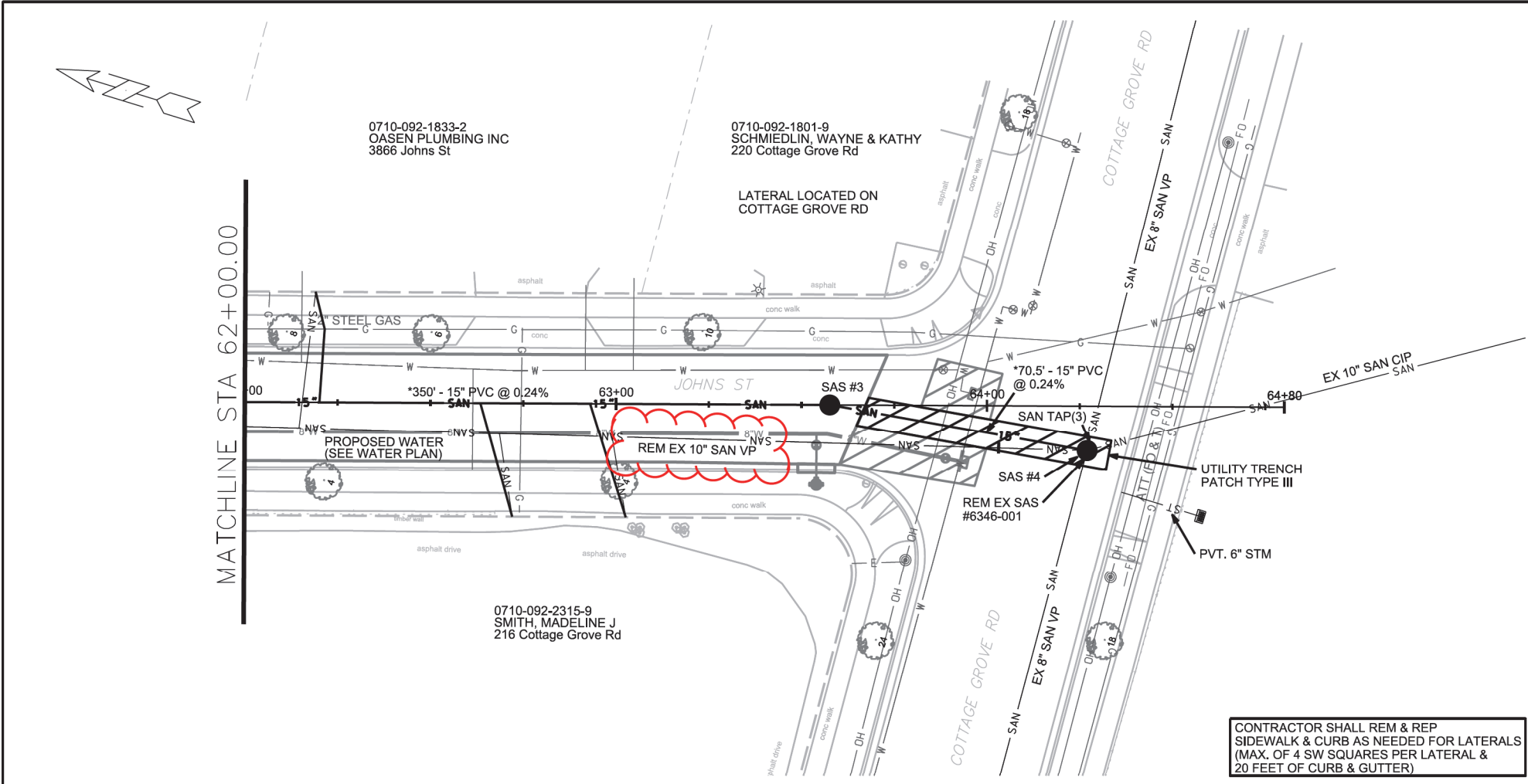
CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)



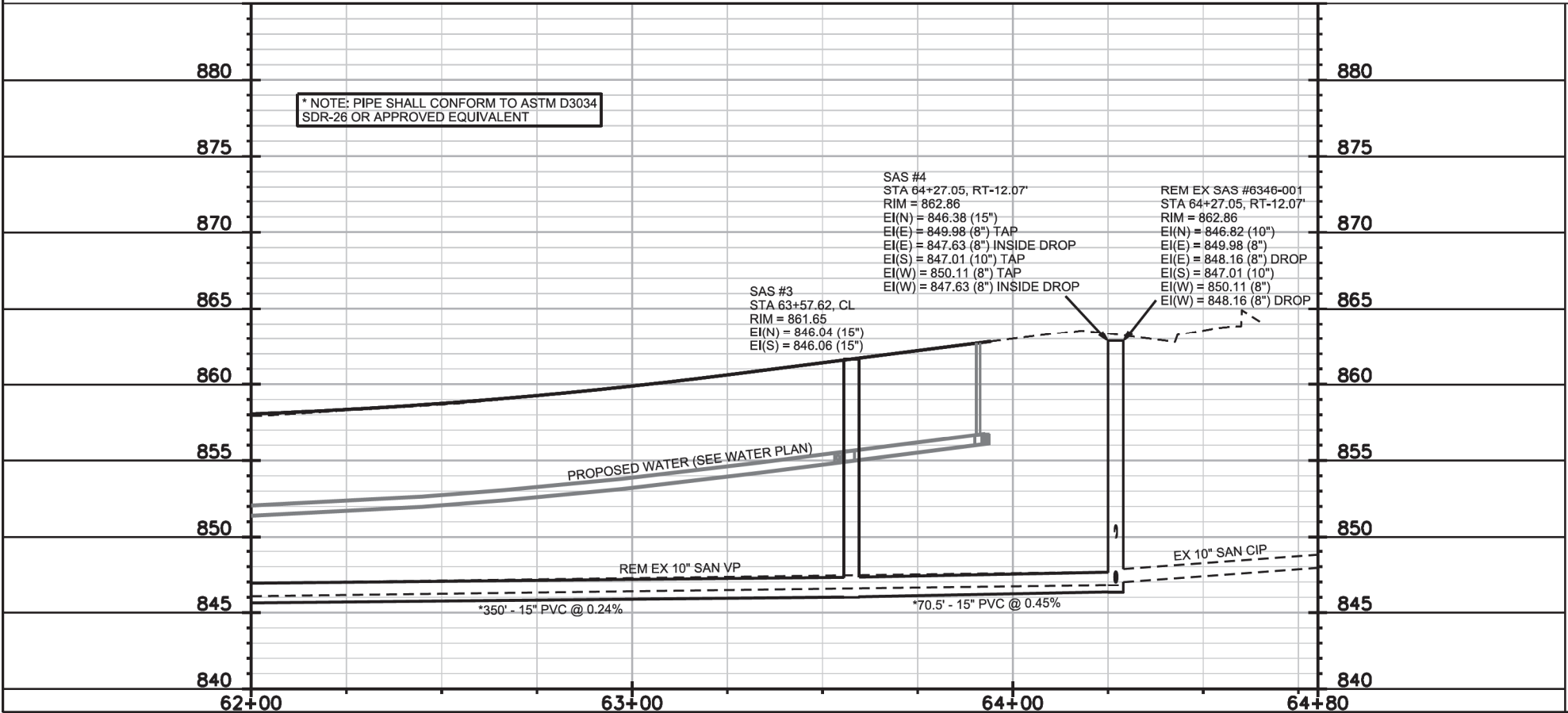
** PIPE SHALL CONFORM TO SPECIFICATIONS OF AWWA C900 DR-18 PRESSURE PIPE OR APPROVED EQUAL

* NOTE: PIPE SHALL CONFORM TO ASTM D3034 SDR-26 OR APPROVED EQUIVALENT

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



CONTRACTOR SHALL REM & REP
SIDEWALK & CURB AS NEEDED FOR LATERALS
(MAX. OF 4 SW SQUARES PER LATERAL &
20 FEET OF CURB & GUTTER)



SANITARY SEWER SCHEDULE

*REVISED 3/23/2015 KDF

JOHNS STREET AND EMIL STREET UTILITIES WITH RESURFACING 2015	SHEET NO. U-4
PROJECT NO. 53W1792 SANITARY SEWER SCHEDULE	
JOHNS ST	CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
JOHNS ST						
SAS #1	57+27.62	CL	854.10	844.49	9.61	W/ LD POLY CHIMNEY SEAL PER S.D.D. 5.7.17
SAS #2	60+07.62	CL	856.40	845.18	11.22	-
SAS #3	63+57.62	CL	861.65	846.04	15.61	-
SAS #4	64+27.05	RT-12.07	862.86	846.38	16.48	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
JOHNS ST								
EX SAS #6	SAS #1	843.48	844.49	420	0.24%	15"	AWWA C900	-
SAS #1	SAS #2	844.51	845.18	280	0.24%	15"	SDR-35	-
SAS #2	SAS #3	845.20	846.04	350	0.24%	15"	SDR-26	MAIN AND LATERALS
SAS #3	SAS #4	846.06	846.38	70.5	0.45%	15"	SDR-26	MAIN AND LATERALS

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
JOHNS ST						
6345-006	56+33.00	CL	853.55	844.63	8.92	-
6345-007	58+97.85	RT-0.80	855.54	845.32	10.22	-
6345-008	61+41.60	RT-5.25	857.26	845.86	11.40	-
6346-001	64+27.05	RT-12.07	862.86	846.82	16.04	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
JOHNS ST						
EX SAS #6	EX SAS #6345-006	321.5	VP	10"	N	-
EX SAS #6345-006	EX SAS #6345-007	261	VP	10"	N	-
EX SAS #6345-007	SAS #2	110	VP	10"	N	-
* SAS #2	EX SAS #6345-008	135	VP	10"	Y	-
* EX SAS #6345-008	EX SAS #6346-001	282	VP	10"	Y	-

SANITARY SEWER ABANDONMENTS

FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES
JOHNS ST						
SAS #2	EX SAS #6345-008	135	10"	VP	Y	FOUR (4) PIPE PLUGS PAID UNDER BID ITEM 20336
EX SAS #6345-008	EX SAS #6346-001	282	10"	VP	Y	SIX (6) PIPE PLUGS PAID UNDER BID ITEM 20336

STORM SEWER SCHEDULE

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
JOHNS ST							
S-1	56+09.77	RT-6.15	4X4 SAS	853.26	849.73	3.53	W/R-1550-0054
S-1A	56+09.80	LT-14.25	H INLET	853.47	851.00	2.47	W/R-3067-7004-VB, LP
S-1B	56+00.80	LT-14.25	H INLET	853.46	851.06	2.40	W/R-3067-7004-V
S-1C	56+29.80	LT-14.25	H INLET	853.48	851.17	2.31	W/R-3067-7004-V
S-2	56+13.88	RT-22.09	FIELD BEND	-	850.41	-	-
S-3	56+18.28	RT-17.72	TERRACE INLET TYPE III	853.23	850.37	2.86	-
S-4	52+88.41	RT-21.05	STORM TAP	-	849.79	-	-
S-5	53+37.53	RT-21.21	H INLET	855.40	849.88	5.52	W/R-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
JOHNS ST										
P-1A	S-1	S-1A	850.48	851.00	20.5	17.5	2.97%	15"	RCP	-
P-1B	S-1A	S-1B	851.00	851.06	9	6	1.00%	12"	RCP	-
P-1C	S-1A	S-1C	851.00	851.17	20	17	1.00%	12"	RCP	-
P-2	S-2	S-3	850.41	850.42	5	5	0.20%	15"	RCP	-
P-3	S-1	S-3	850.22	850.37	14.5	11	1.36%	15"	RCP	-
P-4	S-4	S-5	849.79	849.88	49	44	0.20%	15"	RCP	-

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	AS 6345-006	56+11.75	RT-6.15	4X4 SAS	-
R-2	-	56+11.25	LT-10.85	3X5 SAS	-
R-3	IN 6345-007	56+11.10	LT-14.50	H INLET	-
R-4	AS 6345-005	56+13.90	RT-22.10	4X6 SAS	-
R-5	-	56+10.85	RT-13.80	TUB INLET	-
R-6	IN 6345-008	56+16.05	RT-14.25	TUB INLET	-
R-7	-	56+18.90	RT-14.25	TUB INLET	-
R-8	IN 6344-025	RT-5341.02	18.75	TUB INLET	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	R-1	R-3	18	12	RCP	N	-
RP-2	R-1	R-4	13	12	RCP	N	-
RP-3	S-4	S-5	46	15	RCP	N	-

ADJUST STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ADJ-1	AS 6344-005	52+86.09	RT-7.20	SAS	-
ADJ-2	6344-004	52+88.41	RT-21.05	CATCHBASIN	-

PROPOSED CIPP STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	NOTES
CIP-1	S-5	S-3	280	15"	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO 1	56+09.80	LT-16.50	GAS	-

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.

SPECIFIC NOTES

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.

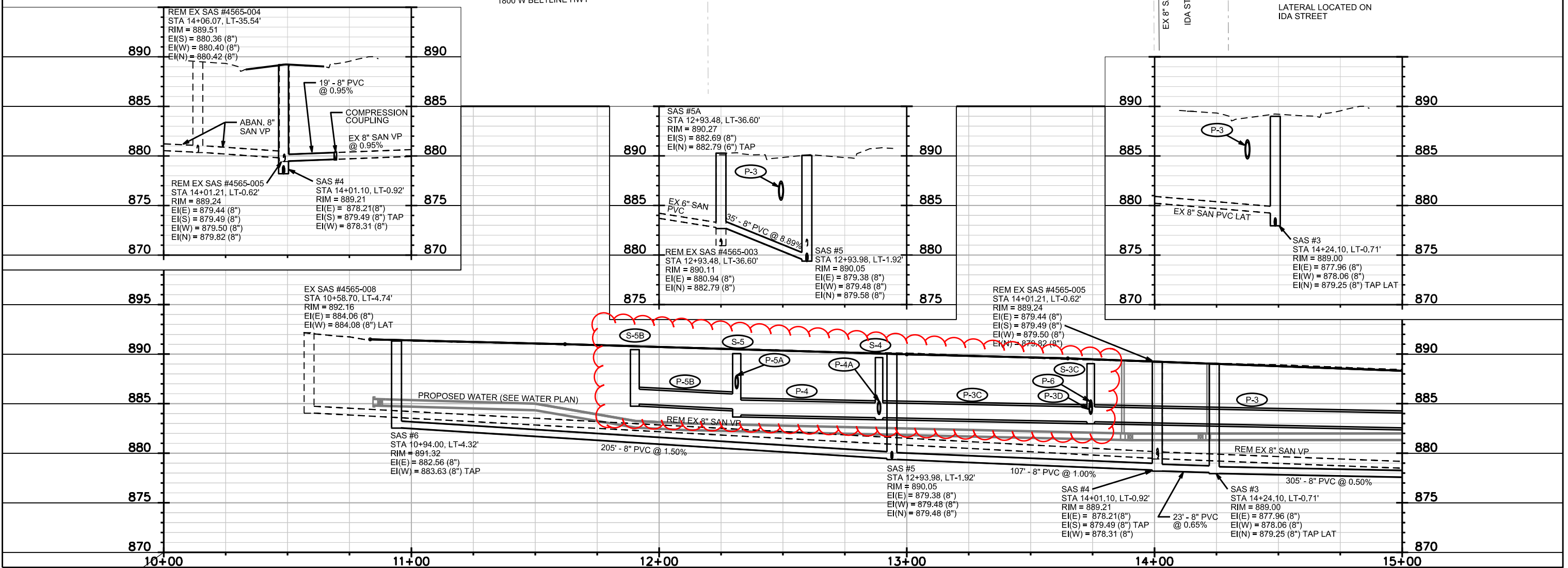
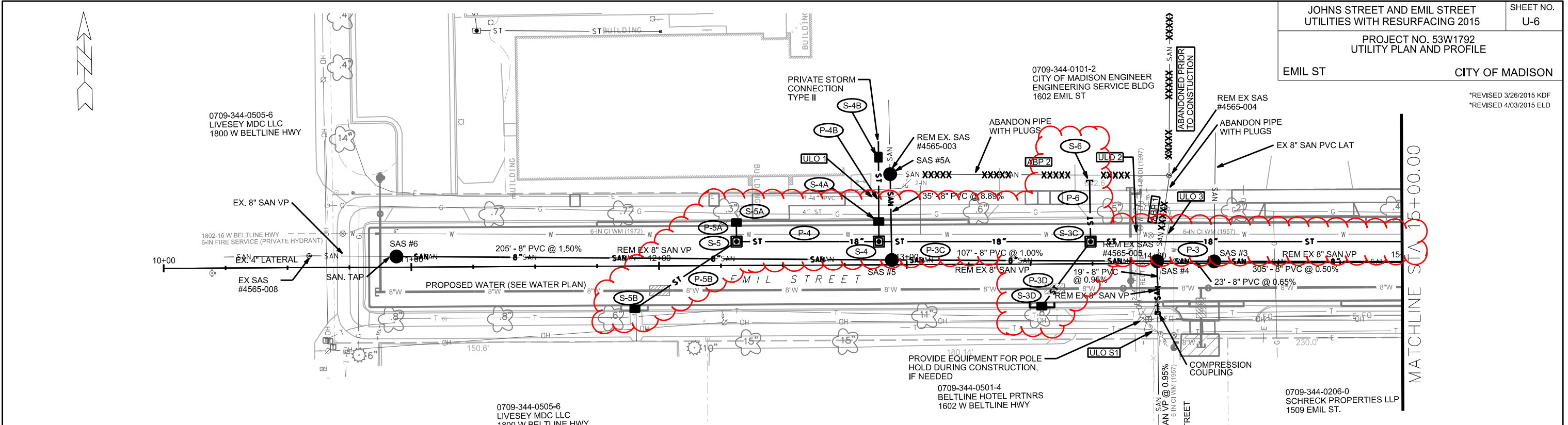
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- 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.

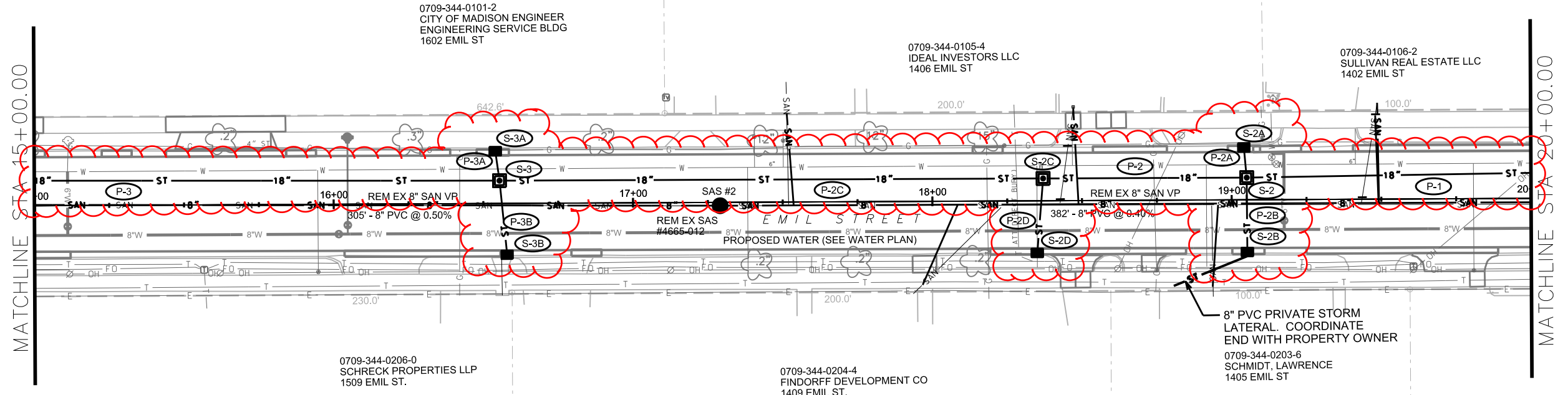
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KRANK@CITYOFMADISON.COM.



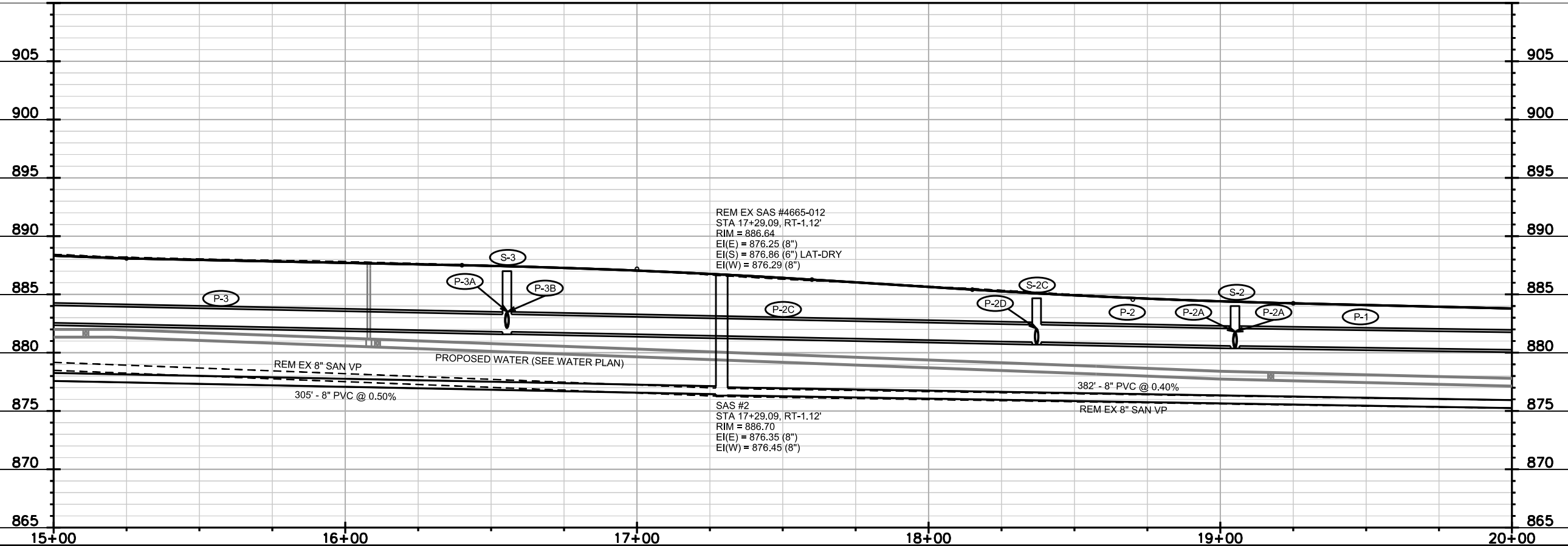
PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

*REV 03/26/2015 KDF

JOHNS STREET AND EMIL STREET UTILITIES WITH RESURFACING 2015	SHEET NO. U-9
PROJECT NO. 53W1792 SANITARY SEWER SCHEDULE	
EMIL ST	CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
EMIL ST						
SAS #1	21+10.92	RT-1.36	883.59	874.77	8.82	-
SAS #2	17+29.09	RT-1.12	886.70	876.35	10.35	-
SAS #3	14+24.10	LT-0.71	889.00	877.96	11.04	-
* SAS #4	14+01.10	LT-0.92	889.21	878.21	11.00	-
SAS #5	12+93.98	LT-1.92	890.05	879.38	10.67	-
SAS #5A	12+93.48	LT-36.60	890.27	882.69	7.58	-
SAS #6	10+94.00	LT-4.32	891.32	882.56	8.76	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
EMIL ST								
SAS #1	SAS #2	874.82	876.35	382	0.40%	8"	SDR-35	-
SAS #2	SAS #3	876.45	877.96	305	0.50%	8"	SDR-35	-
* SAS #3	SAS #4	878.06	878.21	23	0.65%	8"	SDR-35	-
* SAS #4	SAS #5	878.31	879.38	107	1.00%	8"	SDR-35	-
* SAS #4	COMP. COUP.	879.49	879.67	19	0.95%	8"	SDR-35	(1)
SAS #5	SAS #5A	879.58	882.69	35	8.89%	8"	SDR-35	-
SAS #5	SAS #6	879.48	882.56	205	1.50%	8"	SDR-35	-

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
EMIL ST						
4565-003	12+93.48	LT-36.60	890.11	880.94	9.17	-
4565-004	14+06.07	LT-35.54	889.51	880.46	9.05	-
4565-005	14+01.21	LT-0.62	889.24	879.44	9.80	-
4665-010	21+10.92	RT-1.36	883.59	874.77	8.82	-
4665-011	20+28.37	RT-1.98	883.63	875.10	8.53	-
4665-012	17+29.09	RT-1.12	886.64	876.25	10.39	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
EMIL ST						
4665-010	4665-011	83	VP	8"	N	-
4665-011	4665-012	299	VP	8"	N	-
4665-012	4565-005	328	VP	8"	N	-
4565-005	SAS #6	307	VP	8"	N	-
* 4565-005	COMP. COUP.	29	VP	8"	Y	-

SANITARY SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO S1	14+01.22	RT-25.67	TELEPHONE	-

SANITARY SEWER ABANDONMENT

ABANDON NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	NOTES
ABP 1	4565-005	4565-004	32	VP	8"	ABANDON WITH PLUGS
ABP 2	4565-004	4565-003	110	VP	8"	ABANDON WITH PLUGS

SPECIFIC NOTES

(1) COMPRESSION COUPLE LOCATION IS STA. 14+01.21, RT-20'

STORM SEWER SCHEDULE

*REV 03/26/2015 KDF
**REV 04/03/2015 ELD

JOHNS STREET AND EMIL STREET
UTILITIES WITH RESURFACING 2015

SHEET NO.
U-10

PROJECT NO. 53W1792
STORM SEWER SCHEDULE

EMIL ST CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
EMIL ST							
S-0	21+04.93	LT-16.55	TAP	-	879.24	-	-
S-1	21+04.65	LT-9.78	3X3 SAS	883.05	879.64	3.41	W/R-1550-0054
** S-2	19+05.05	LT-7.42	3X3 SAS	884.10	880.58	3.52	W/R-1550-0054
** S-2A	19+04.13	LT-17.50	H INLET	884.13	880.62	3.51	W/R-3067-7004-V
S-2B	19+05.15	RT-17.50	H INLET	884.40	880.71	3.69	W/R-3067-7004-V
** S-2C	18+37.03	LT-7.47	3X3 SAS	884.80	880.90	3.90	W/R-1550-0054
S-2D	18+34.97	RT-17.50	H INLET	885.36	881.03	4.33	W/R-3067-7004-V
** S-3	16+55.43	LT-7.61	3X3 SAS	887.10	881.79	5.31	W/R-1550-0054
S-3A	16+54.05	LT-17.50	H INLET	887.15	882.31	4.84	W/R-3067-7004-V
** S-3B	16+57.87	RT-17.50	H INLET	887.09	882.42	4.67	(1), W/R-1878-B7G
** S-3C	13+74.26	LT-8.94	3X3 SAS	889.16	883.18	5.98	W/R-1550-0054
** S-3D	13+54.45	RT-17.00	H INLET	889.75	884.25	5.50	W/R-3067-7004-V
** S-4	12+88.79	LT-9.38	3X3 SAS	889.77	883.59	6.18	W/R-1550-0054
S-4A	12+88.80	LT-17.50	H INLET	889.90	884.12	5.78	W/R-3067-7004-V
S-4B	12+88.80	LT-43.50	24" STANDPIPE	890.25	884.59	5.66	SPECIAL ITEM 90031
** S-5	12+31.33	LT-9.65	3X3 SAS	890.15	883.86	6.29	W/R-1550-0054
S-5A	12+31.30	LT-17.50	H INLET	890.33	884.92	5.41	W/R-3067-7004-V
** S-5B	11+90.18	RT-17.50	H INLET	890.45	884.95	5.50	(1), W/R-1878-B7G
** S-6	13+74.00	LT-33.44	PLUG	-	884.88	-	(2)

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
EMIL ST										
P-0	S-0	S-1	879.24	879.64	7	4.3	9.30%	21"	RCP	-
P-1	S-1	S-2	879.89	880.58	200	196.6	0.35%	18"	RCP	-
P-2	S-2	S-2C	880.58	880.90	68	65	0.50%	18"	RCP	-
** P-2A	S-2	S-2A	880.58	880.62	10	7.6	0.53%	12"	RCP	NCM
** P-2B	S-2	S-2B	880.58	880.71	25	22.4	0.58%	12"	RCP	NCM
P-2C	S-2C	S-3	880.90	881.79	181.5	178.6	0.50%	18"	RCP	-
** P-2D	S-2C	S-2D	880.90	881.03	25	22.5	0.58%	12"	RCP	NCM
** P-3	S-3	S-3C	881.79	883.18	281	278.2	0.50%	18"	RCP	-
** P-3A	S-3	S-3A	882.29	882.33	10	7.5	0.53%	12"	RCP	NCM
** P-3B	S-3	S-3B	882.29	882.42	25	22.5	0.58%	12"	RCP	NCM
** P-3C	S-3C	S-4	883.18	883.59	85.5	82.5	0.50%	18"	RCP	-
** P-3D	S-3C	S-3D	884.10	884.25	33	29.5	0.51%	12"	RCP	NCM
P-4	S-4	S-5	883.59	883.86	57.5	54.5	0.50%	18"	RCP	-
** P-4A	S-4	S-4A	884.09	884.12	8	5.5	0.55%	12"	RCP	NCM
P-4B	S-4A	S-4B	884.12	884.59	26	23.5	2.00%	8"	PVC	-
** P-5A	S-5	S-5A	886.68	886.71	8	5.5	0.55%	12"	RCP	NCM
** P-5B	S-5	S-5B	884.48	884.95	49	45.5	1.03%	18"	RCP	-
** P-6	S-3C	S-6	884.68	884.88	21.50	20	1.00%	8"	STORM	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF ELEV	NOTES
** ULO 1A	12+88.80	LT-28.65	ELEC / TELEPHONE	887.20	4" CONDUIT, CLEAR
** ULO 2A	13+94.80	LT-11.50	TELEPHONE	885.50	6" CONDUIT, CLEAR
** ULO 2B	13+91.90	LT-11.65	TELEPHONE	885.40	6" CONDUIT, CLEAR
** ULO 2C	13+92.00	LT-11.65	ELECTRIC	885.70	6" CONDUIT, CLEAR
** ULO 2D	13+92.40	LT-11.65	TELEPHONE	885.40	6" CONDUIT, CLEAR
** ULO 3A	14+05.70	LT-11.60	TELEPHONE	-	NO UTILITY FOUND
** ULO101A	12+93.80	LT-20.20	GAS	887.15	4" STEEL, CLEAR
** ULO102A	16+54.05	LT-17.45	GAS	883.00	4" STEEL, CONFLICT-MGE TO RELOCATE
** ULO103A	19+03.95	LT-18.70	GAS	880.30	4" STEEL, CONFLICT-MGE TO RELOCATE
** ULO104A	16+52.50	RT-19.55	TELEPHONE	885.60	3 - 2" CONDUITS STACKED, CLEAR
** ULO105A	16+43.03	LT-9.65	GAS	884.93	2" STEEL, CLEAR
** ULO106A	17+09.95	LT-10.85	TELEPHONE	884.20	4" CONDUIT, CLEAR
** ULO107A	16+52.95	RT-28.85	TELEPHONE	883.60	2" CONDUIT, CLEAR
** ULO107B	16+52.85	RT-28.75	TELEPHONE	883.60	2" CONDUIT, CLEAR
** ULO107C	16+52.80	RT-24.75	FIBER OPTIC	883.10	2 - 2" CONDUIT SIDE BY SIDE, CLEAR

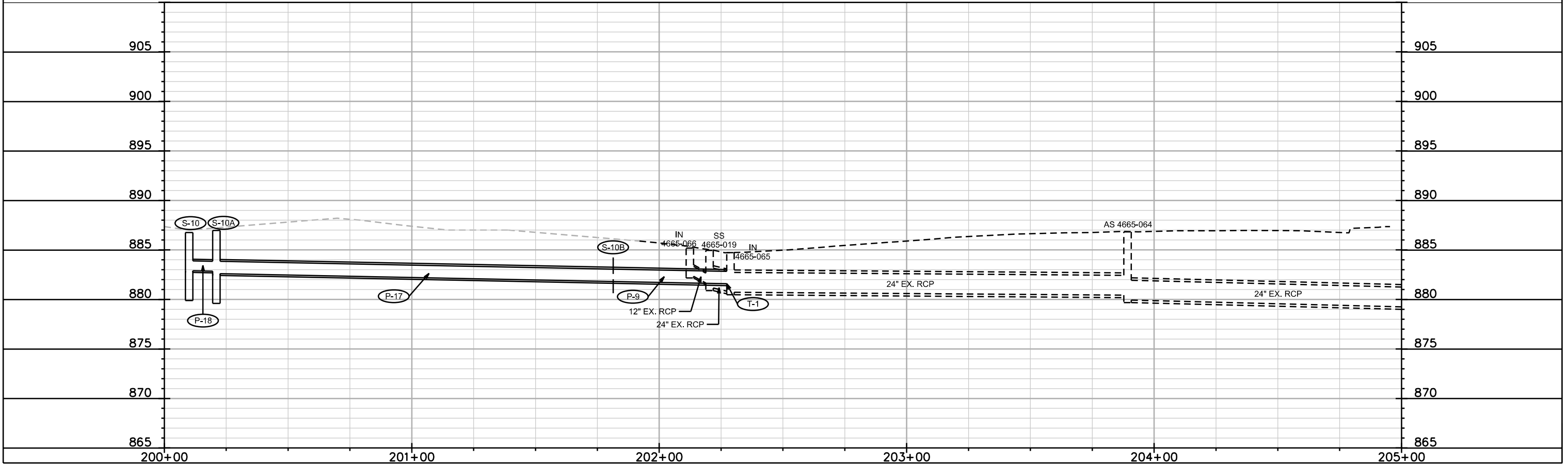
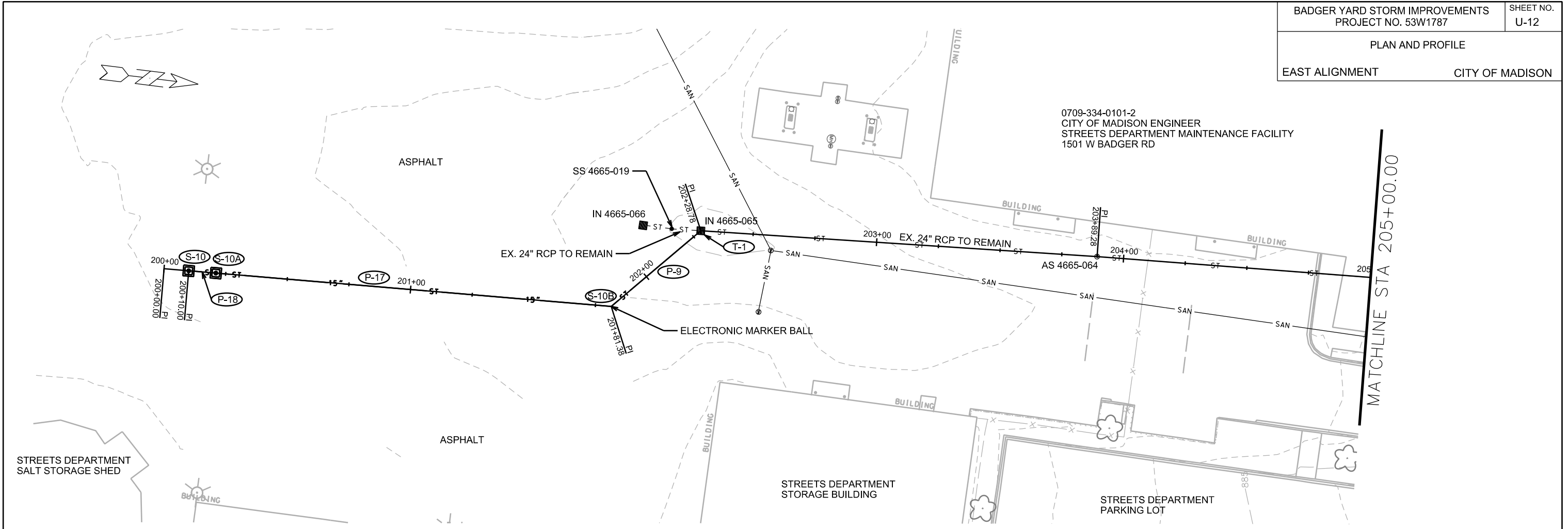
NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

SPECIFIC NOTES

- (1) FORM CURB TO TIE INTO EXISTING FLUME
** (2) PIPE PLUG INCIDENTAL TO PIPE (LESS THAN 10")

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 ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EDUNDEE@CITYOFMADISON.COM.

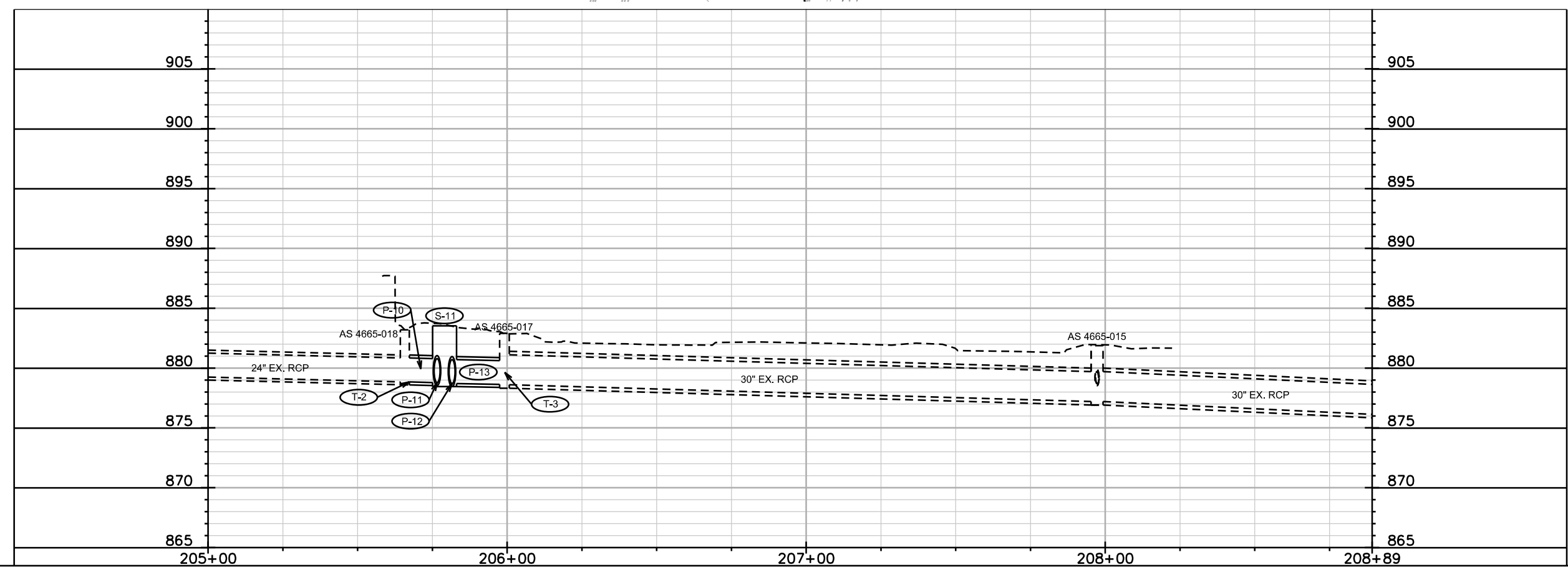
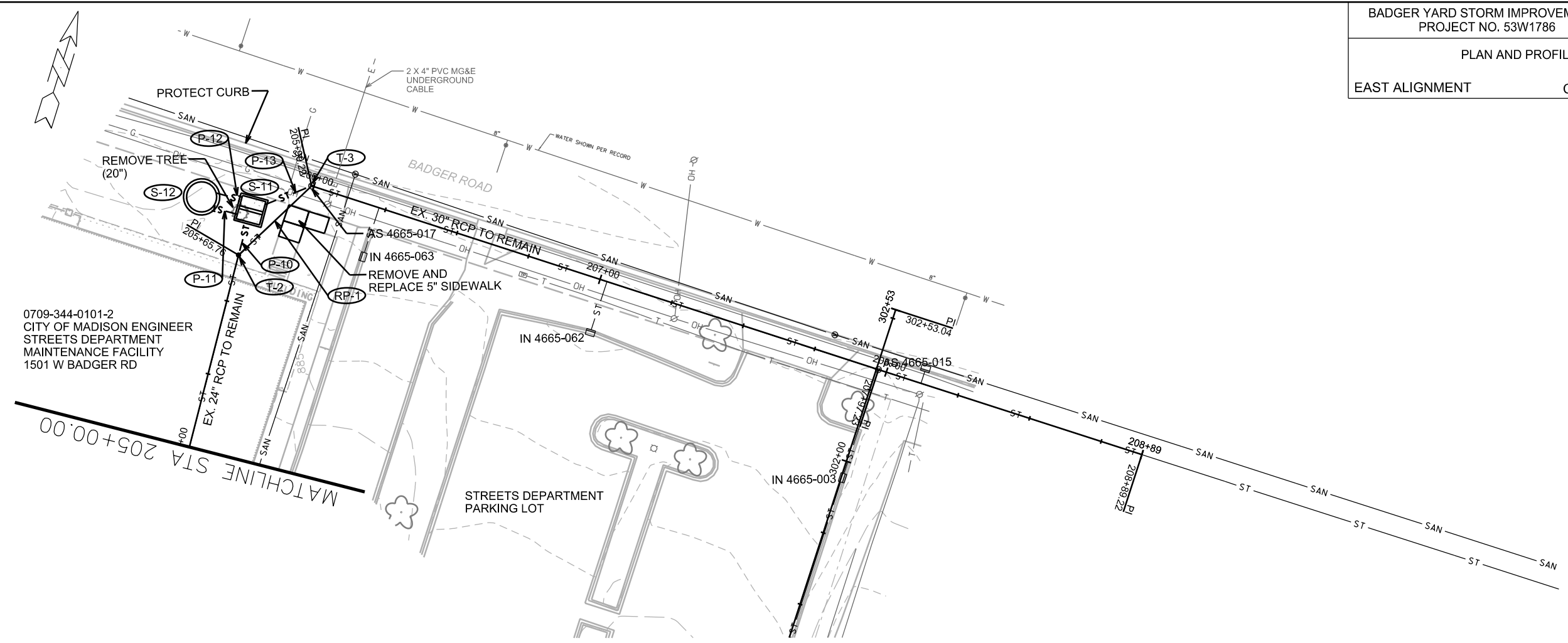


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

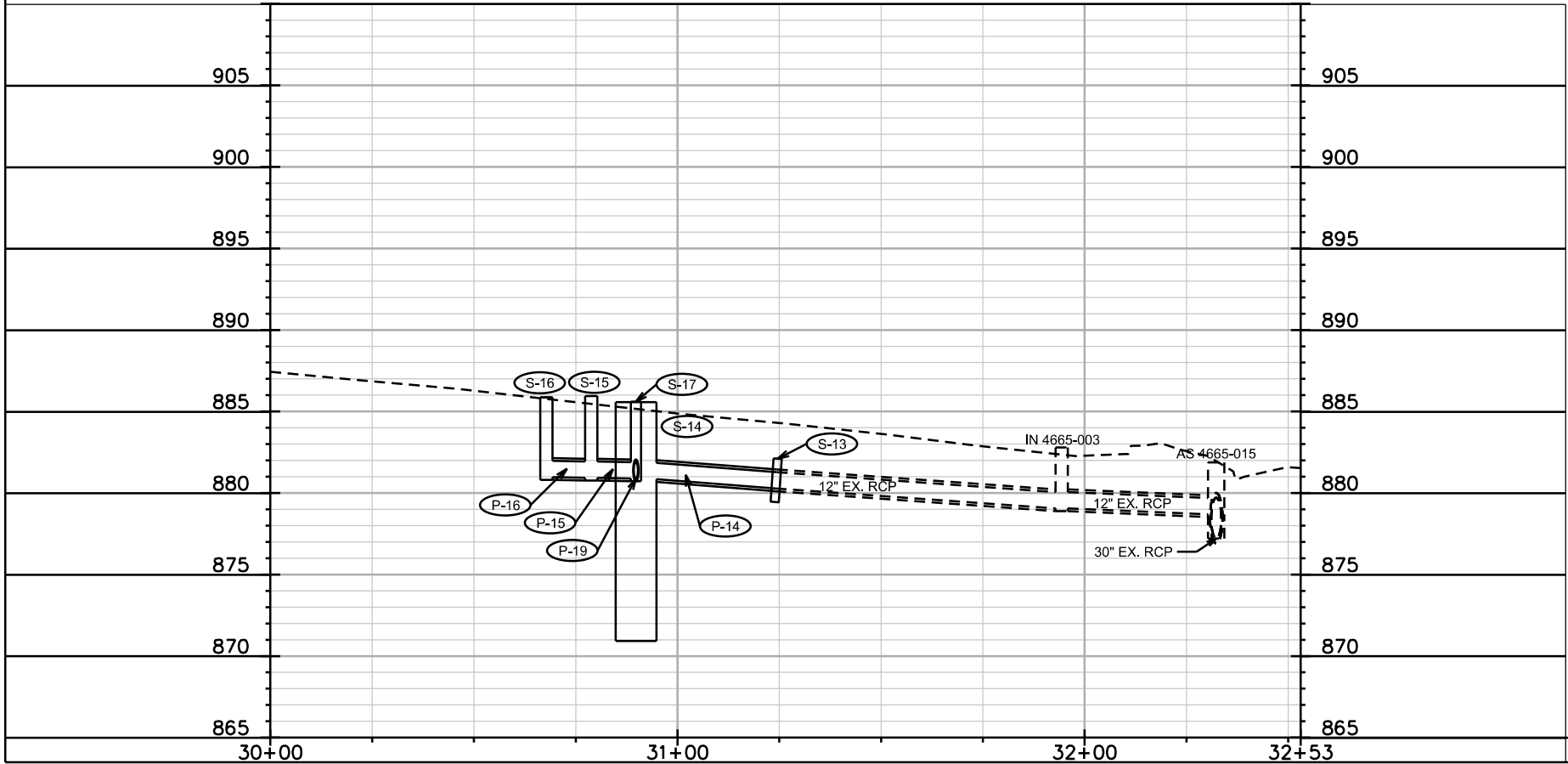
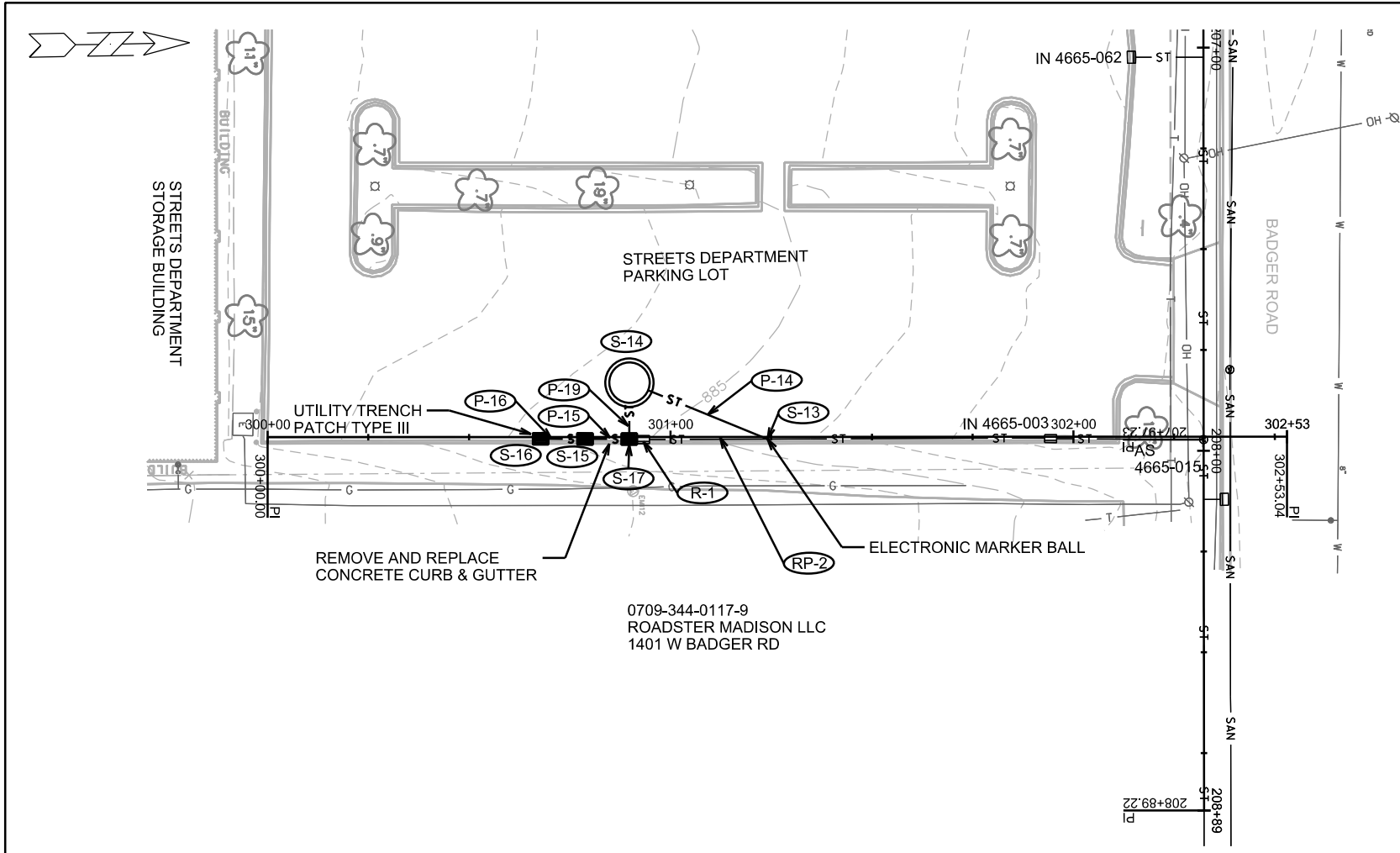


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



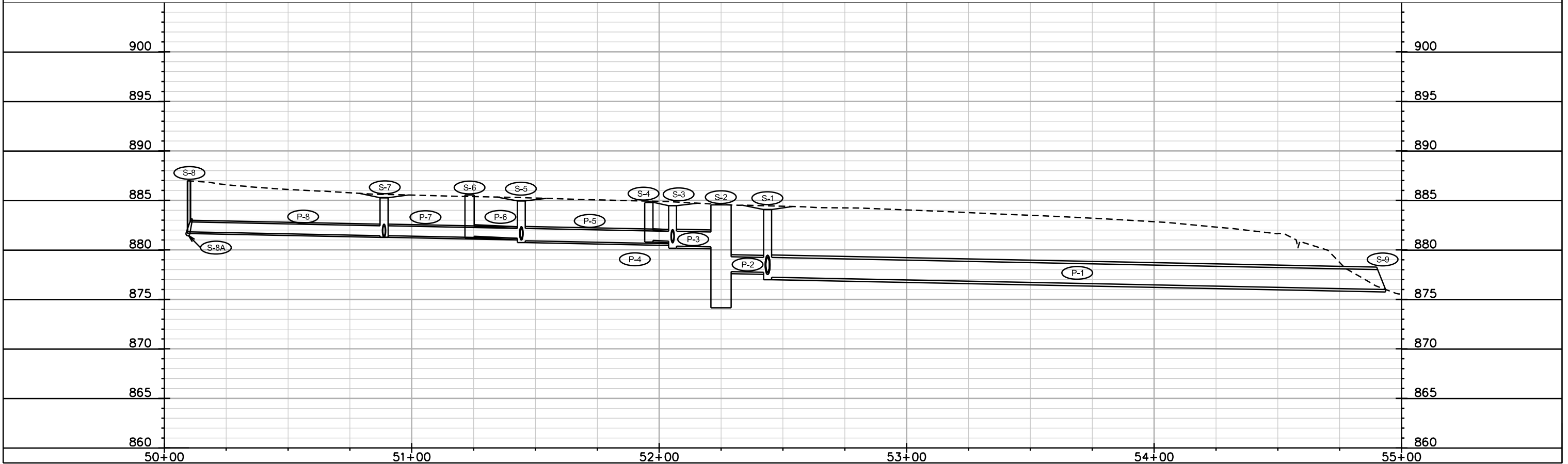
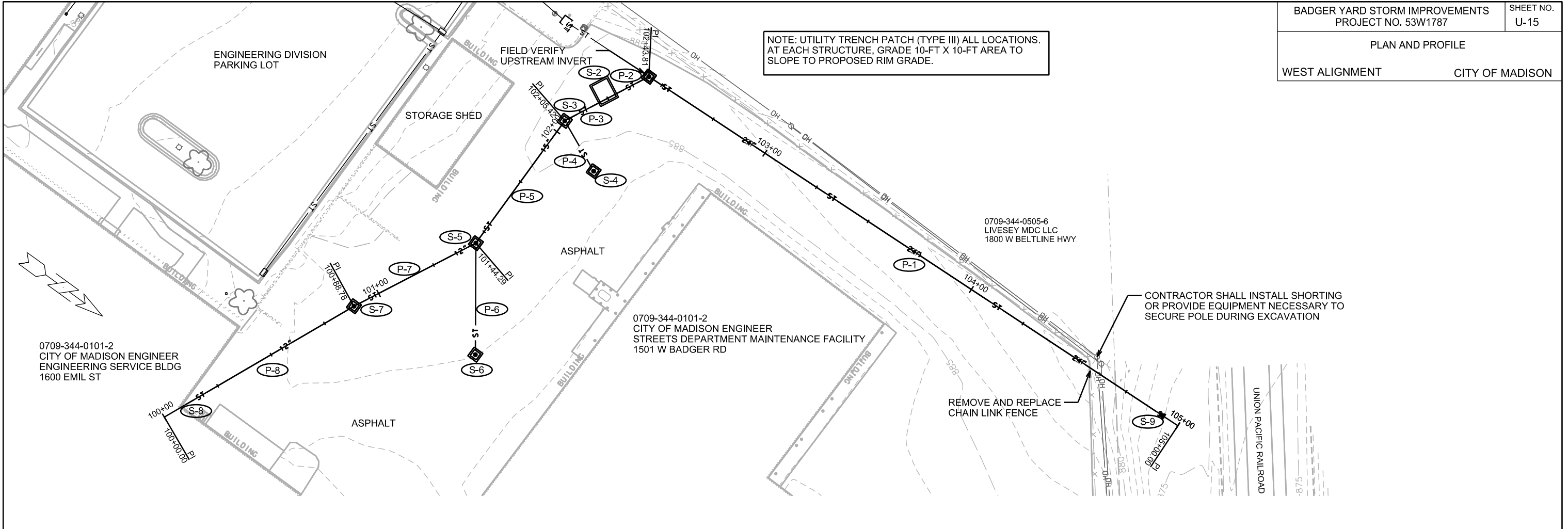
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

NOTE: UTILITY TRENCH PATCH (TYPE III) ALL LOCATIONS.
AT EACH STRUCTURE, GRADE 10-FT X 10-FT AREA TO
SLOPE TO PROPOSED RIM GRADE.



PLOT SCALE: _____

PLOT NAME: _____

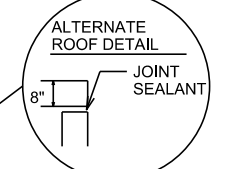
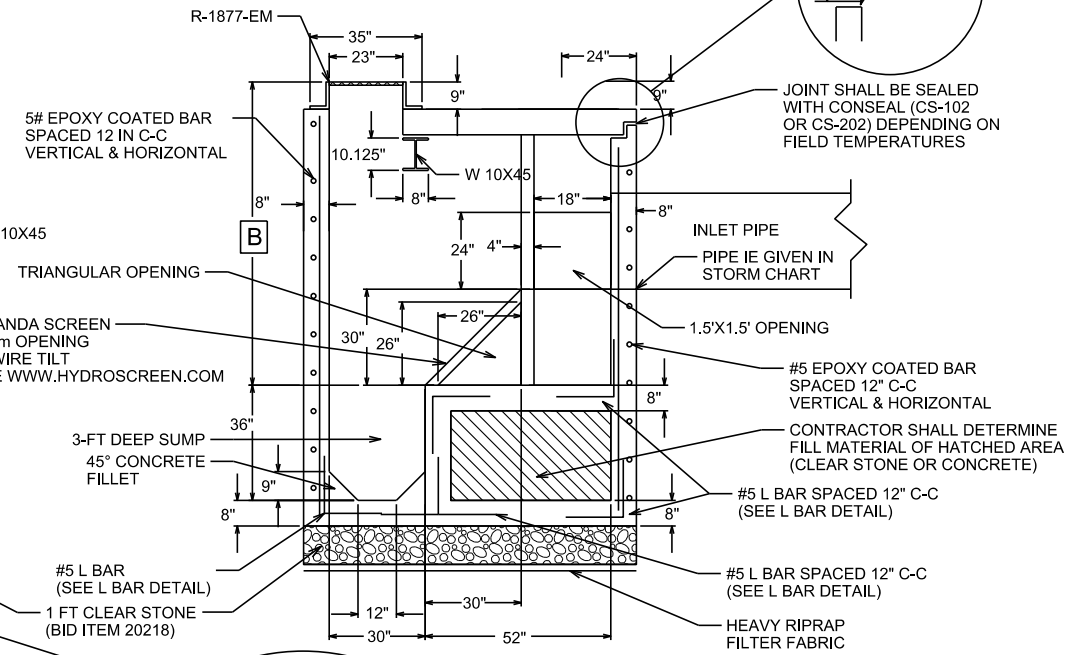
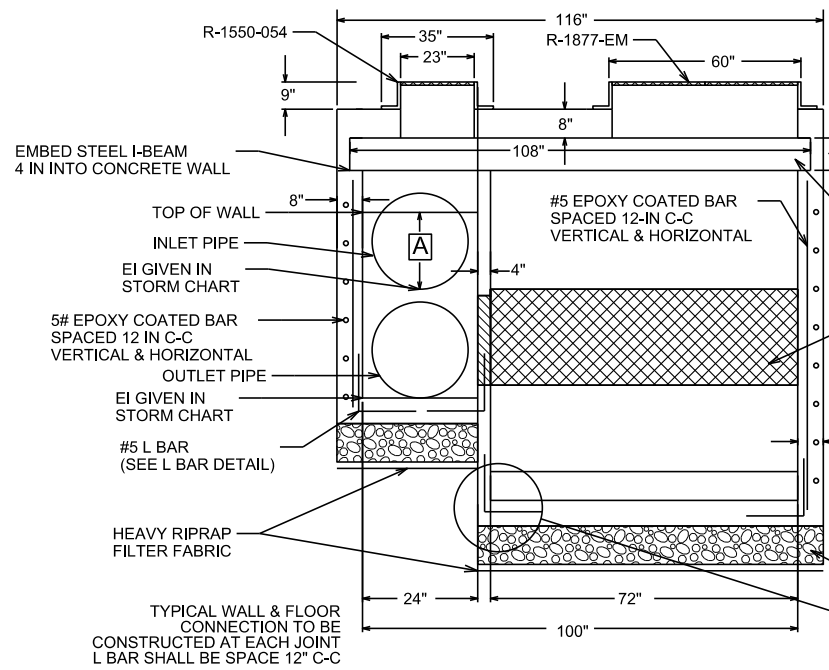
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

NOT TO SCALE

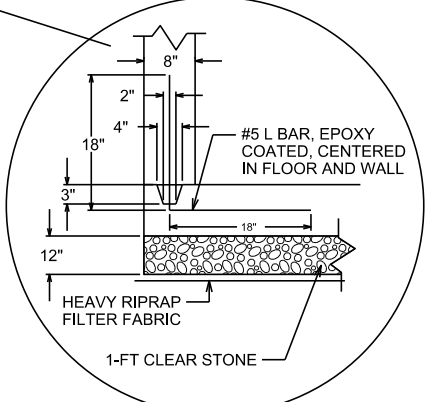
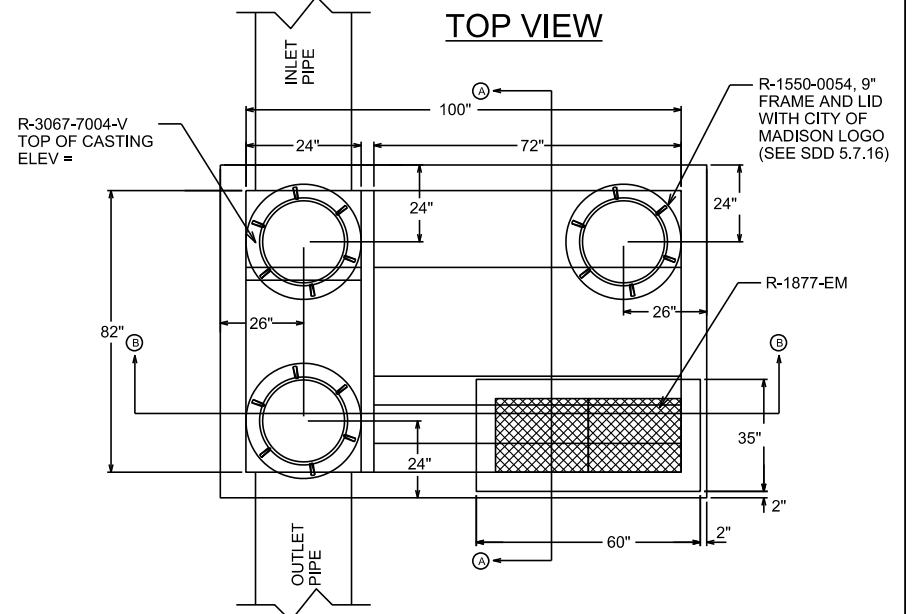
SECTION B-B

SECTION A-A



JOINT SHALL BE SEALED WITH CONSEAL (CS-102 OR CS-202) DEPENDING ON FIELD TEMPERATURES

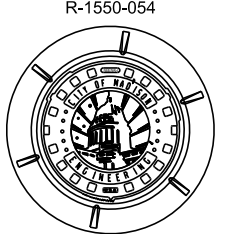
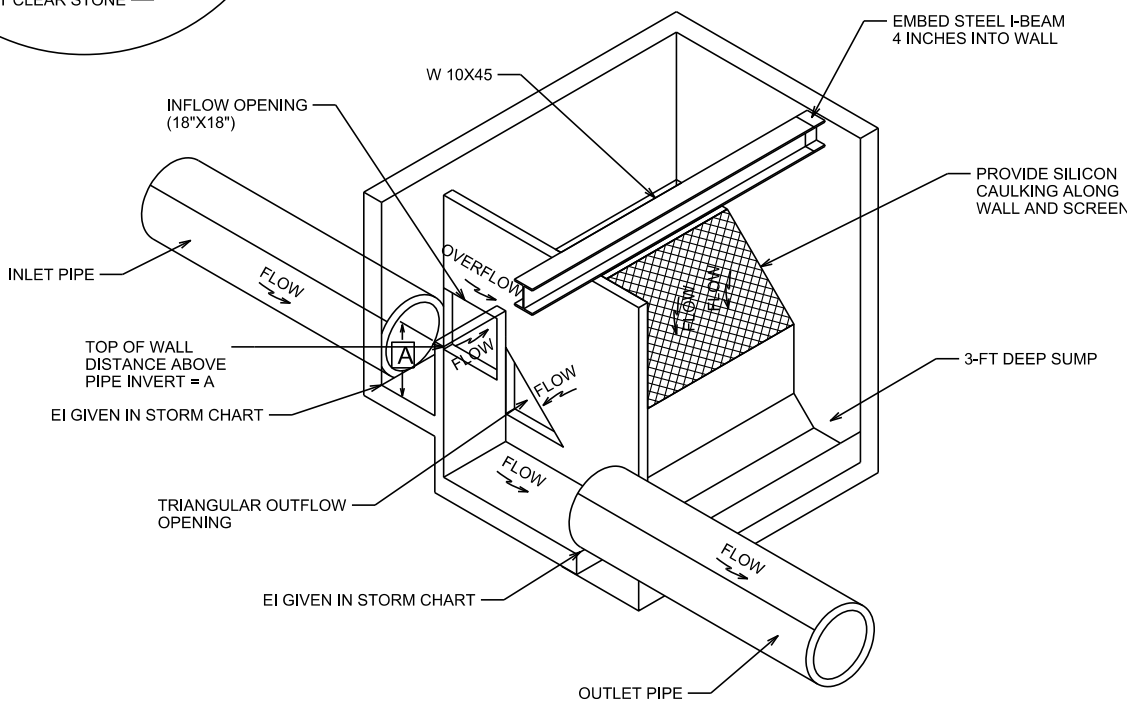
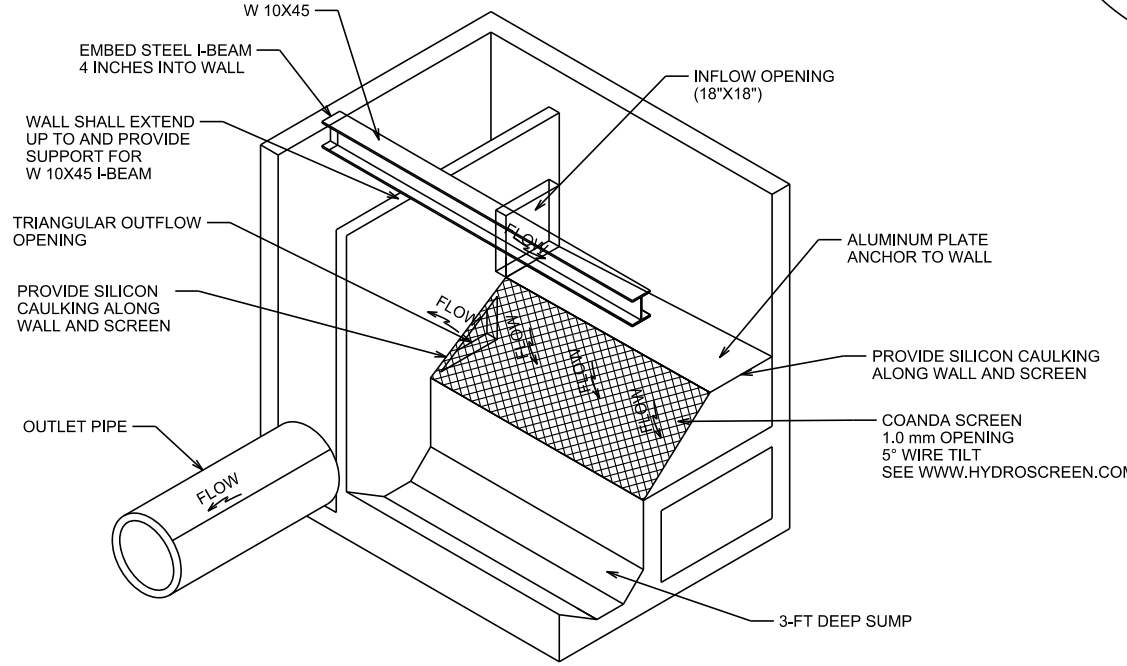
TOP VIEW



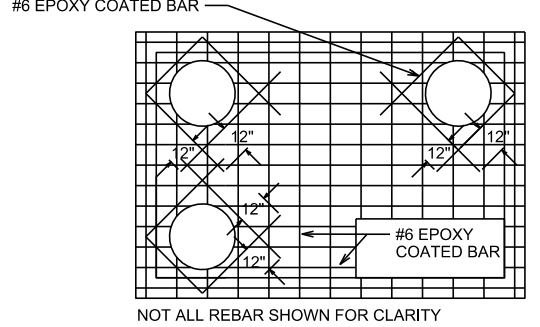
PIPE SIZE	DIMENSION A	DIMENSION B (MINIMUM)
18"	15"	82"

NE ISOMETRIC VIEW (SIDEWALLS & ROOF NOT SHOWN)

NW ISOMETRIC VIEW (SIDEWALLS & ROOF NOT SHOWN)



ROOF REINFORCEMENT



- ROOF REINFORCEMENT NOTES:
1. EPOXY COATED REBARS SHALL BE USED IN ALL CASES
 2. #6 REBARS PLACED ON 4" CENTERS
 3. 3" CLEAR SHALL BE MAINTAINED
 4. ROOF THICKNESS SHALL BE 8" MINIMUM

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

STORM SEWER SCHEDULE

REVISED LES 3/26/2015

PROPOSED STORM STRUCTURES

STRUC NO.	STATION	LOCATION TYPE (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* S-1	102+43.81	RT-0.00	3'X3' STORM SAS	884.08	877.24	6.84	W/ R-1550; OPEN GRATE
S-2	102+25.00	LT-3.27	SCREEN TREATMENT STRUCTURE	884.55	877.81	9.74	SEE SHEET U-16 AND BID ITEM 90030
* S-3	102+05.42	RT-0.00	3'X3' STORM SAS	884.46	880.38	4.08	W/ R-1550; OPEN GRATE
* S-4	101+95.81	RT-21.40	3'X3' STORM SAS	884.78	880.98	3.80	W/ R-1550; OPEN GRATE
* S-5	101+44.29	RT-0.00	3'X3' STORM SAS	884.95	880.92	4.03	W/ R-1550; OPEN GRATE
* S-6	101+23.36	RT-39.97	3'X3' STORM SAS	885.55	881.38	4.17	W/ R-1550; OPEN GRATE
* S-7	100+88.78	RT-0.00	3'X3' STORM SAS	885.27	881.43	3.84	W/ R-1550; OPEN GRATE
S-8	100+10.00	RT-0.00	CLEANOUT (12")	886.97	881.82	5.15	EXTEND TO GROUND SURFACE
S-8A	100+10.00	RT-0.00	90° BEND	--	881.82	--	FP; PER S.D.D. 5.4.5
S-9	104+93.57	LT-0.00	24-INCH RCP APRON ENDWALL W/ GATE	--	876.00	--	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-10	200+10.00	RT-0.00	3'X3' STORM SAS	886.75	882.89	3.86	W/ R-1550; OPEN GRATE; SEE SPEC. NOTE 1
S-10A	200+21.02	RT-0.00	3'X3' STORM SAS	886.97	882.60	4.37	W/ R-1550; OPEN GRATE; SEE SPEC. NOTE 1
S-10B	201+81.38	RT-0.00	45° BEND	--	881.81	--	FP; PER S.D.D. 5.4.5
S-11	205+79.04	LT-7.99	8'X8' STORM SAS W/ WEIR	883.53	878.70	4.83	FP; SEE SHEET U-17
S-12	205+70.17	LT-22.49	HYDRODYNAMIC TREATMENT DEVICE 1	883.25	878.75	17.08	CDS 5678-D; SEE BID ITEM 90031
S-13	301+24.09	RT-0.54	22.5° BEND	--	880.28	--	FP; PER S.D.D. 5.4.5
S-14	300+89.84	LT-13.50	HYDRODYNAMIC TREATMENT DEVICE 2	885.58	880.85	14.65	CDS 5653-D; SEE BID ITEM 90032
S-15	300+78.78	RT-0.46	TYPE 'H' INLET	885.90	880.93	4.97	W/ R-3067-7004-V
S-16	300+67.78	RT-0.41	TYPE 'H' INLET	886.21	880.97	5.24	W/ R-3067-7004-V
S-17	300+89.78	RT-0.50	TYPE 'H' INLET	885.60	880.89	4.71	W/ R-3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
P-1	S-9	S-1	876.00	877.24	248	250	0.50%	24"	RCP	
P-2	S-1	S-2	877.74	877.81	14	19	0.50%	18"	RCP	
P-3	S-2	S-3	880.31	880.38	14	20	0.50%	18"	RCP	
P-4	S-3	S-4	880.88	880.98	20	23	0.50%	12"	RCP	
P-5	S-3	S-5	880.63	880.92	58	61	0.50%	15"	RCP	
P-6	S-5	S-6	881.17	881.38	41	45	0.50%	12"	RCP	
P-7	S-5	S-7	881.17	881.43	52	56	0.50%	12"	RCP	
P-8	S-7	S-8	881.43	881.82	77	79	0.50%	12"	RCP	
P-9	IN 4665-065	S-10B	881.58	881.81	45	47	0.50%	15"	RCP	
P-10	S-11	AS 4665-018	878.79	878.84	10	16	0.50%	24"	RCP	
P-11	S-12	S-11	878.75	878.79	9	9	0.50%	24"	RCP	
P-12	S-11	S-12	878.70	878.75	9	9	0.50%	24"	RCP	
P-13	AS 4665-017	S-11	878.63	878.70	15	22	0.50%	24"	RCP	
P-14	S-13	S-14	880.28	880.85	32	37	1.78%	12"	RCP	
P-15	S-17	S-15	880.89	880.93	8	11	0.50%	12"	RCP	
P-16	S-15	S-16	880.93	880.97	8	11	0.50%	12"	RCP	
P-17	S-10B	S-10A	881.81	882.60	159	160	0.50%	15"	RCP	
P-18	S-10A	S-10	882.85	882.89	8	11	0.50%	12"	RCP	
P-19	S-14	S-17	880.85	880.89	8	14	0.50%	12"	RCP	

STORM STRUCTURE TAP

STRUC ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
T-1	AS 4665-065	202+28.78	RT-0.00	ACCESS STRUCTURE
T-2	AS 4665-018	205+65.76	RT-0.00	ACCESS STRUCTURE
T-3	AS 4665-017	205+99.22	RT-0.00	ACCESS STRUCTURE

STORM PIPE REMOVAL

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	AS 4665-018	AS 4665-017	33	N	30"	RCP	
RP-2	IN 4665-061	STA 301+24.09	29	N	12"	RCP	

STORM STRUCTURE REMOVAL

STRUC ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	IN 4665-061	300+93.29	RT-0.64	TYPE 'H' INLET

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.

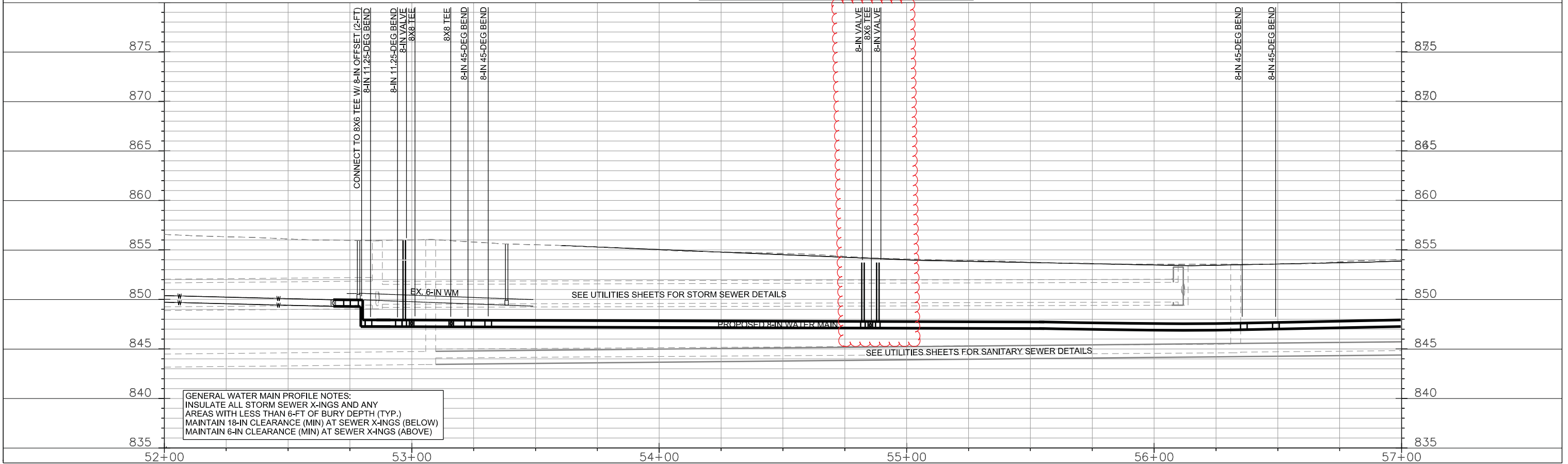
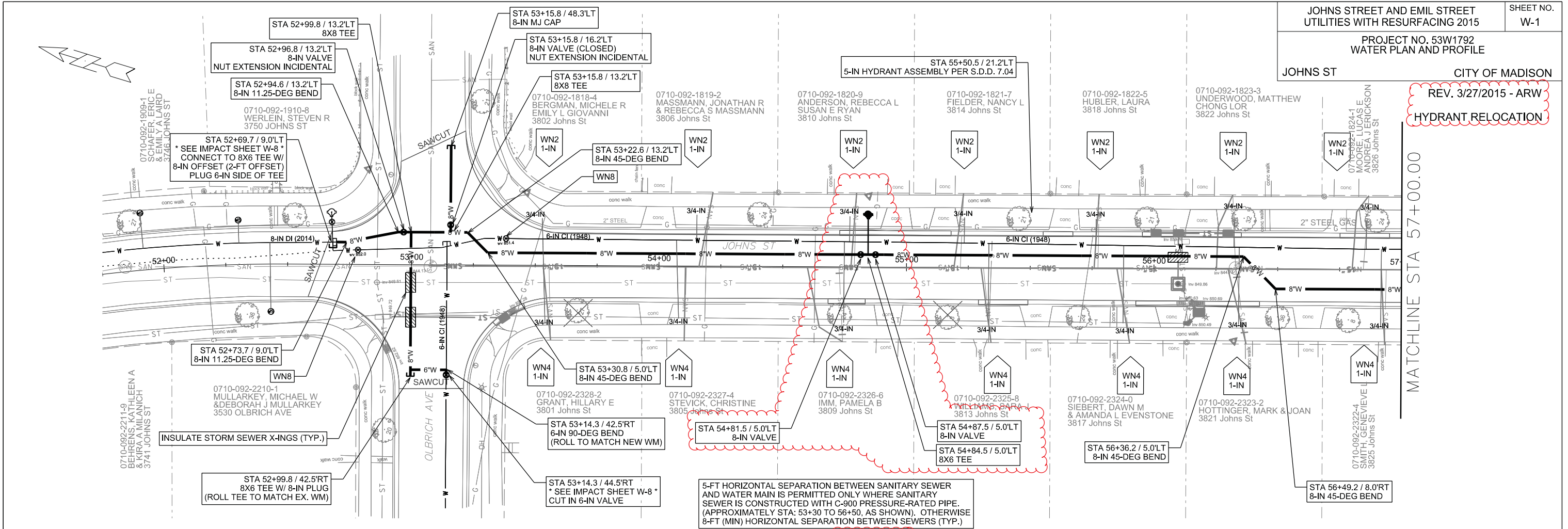
SPECIAL NOTES:

1) STRUCTURE INCLUDES 3-FOOT SUMP BELOW LISTED INVERT (BID ITEM 90038)

STANDARD NOTES:

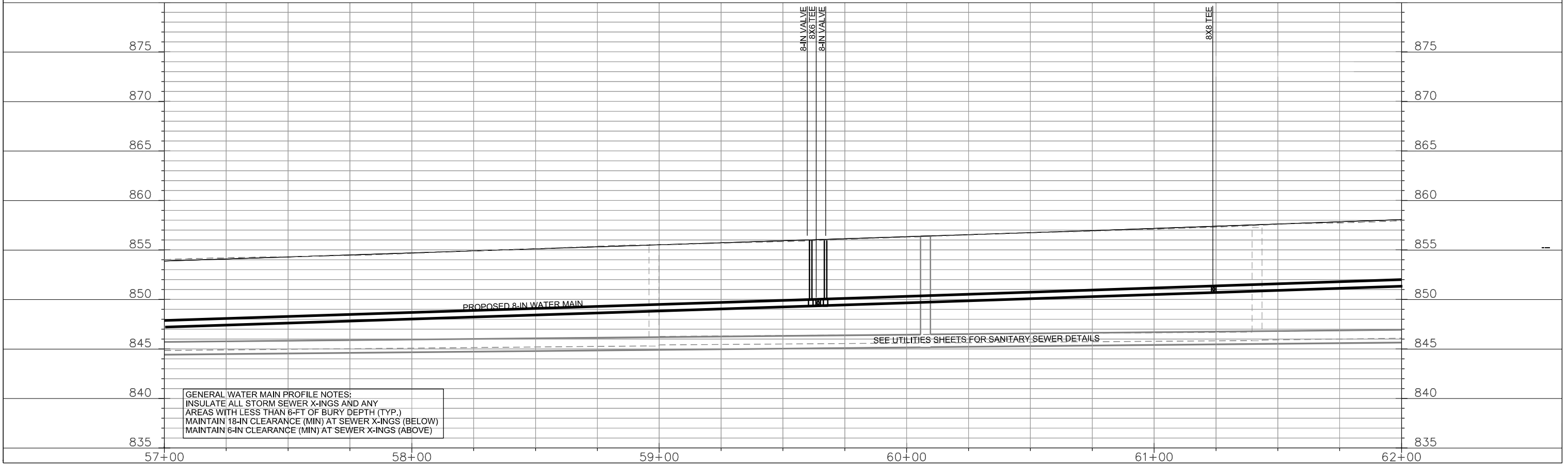
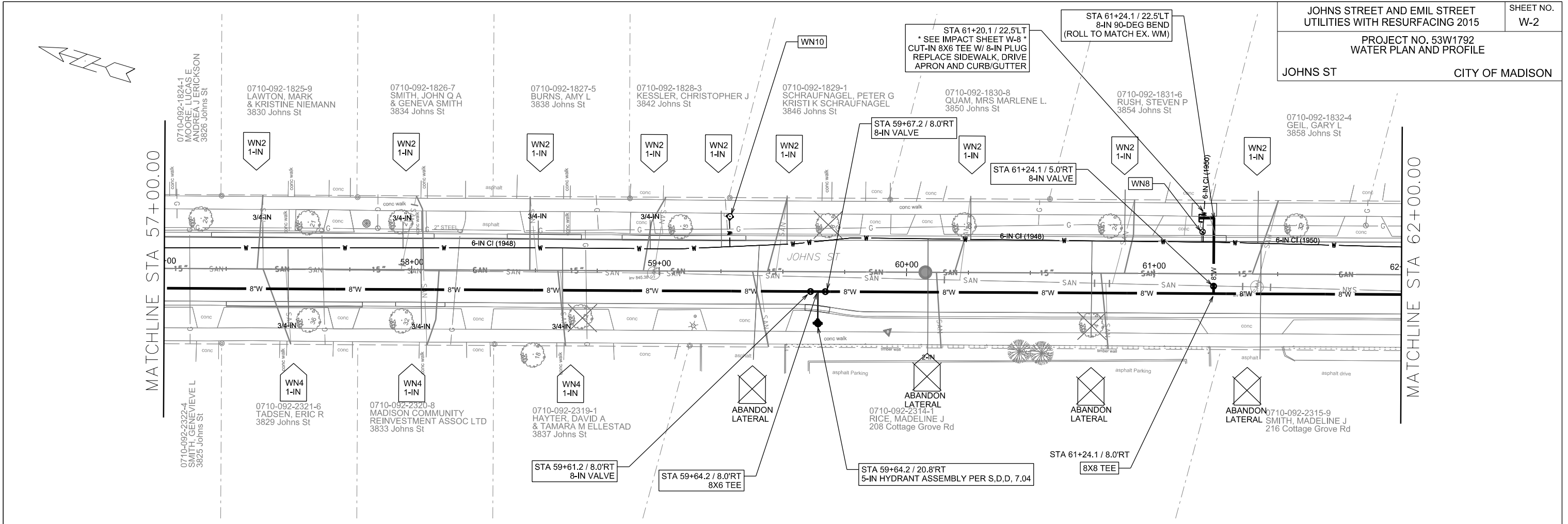
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = 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 LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275.

REV. 3/27/2015 - ARW
HYDRANT RELOCATION



GENERAL WATER MAIN PROFILE NOTES:
 INSULATE ALL STORM SEWER X-INGS AND ANY AREAS WITH LESS THAN 6-FT OF BURY DEPTH (TYP.)
 MAINTAIN 18-IN CLEARANCE (MIN) AT SEWER X-INGS (BELOW)
 MAINTAIN 6-IN CLEARANCE (MIN) AT SEWER X-INGS (ABOVE)

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



GENERAL WATER MAIN PROFILE NOTES:
 INSULATE ALL STORM SEWER X-INGS AND ANY AREAS WITH LESS THAN 6-FT OF BURY DEPTH (TYP.)
 MAINTAIN 18-IN CLEARANCE (MIN) AT SEWER X-INGS (BELOW)
 MAINTAIN 6-IN CLEARANCE (MIN) AT SEWER X-INGS (ABOVE)

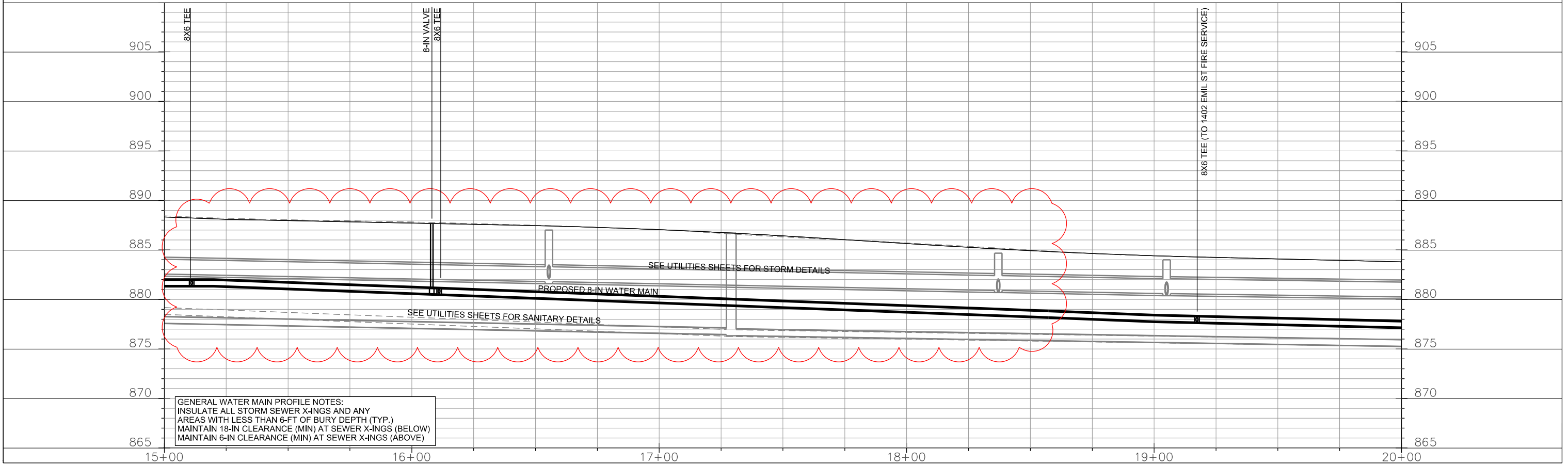
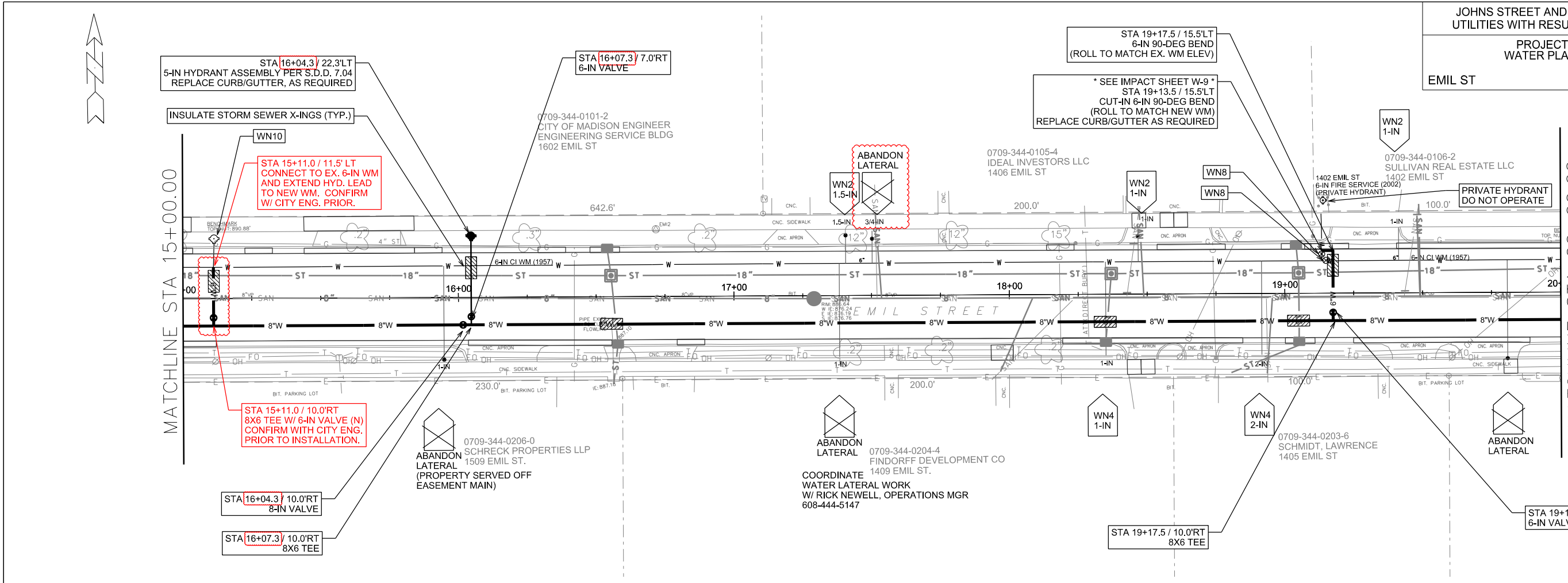
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. 3/27/2015 - ARW
 HYDRANT RELOCATION
 REV. 4/3/2015 - ARW
 WM PROFILE ADJUSTMENT
 EX. HYD RECONNECT.
 STATIONING CORRECTION
 ABANDON LATERAL



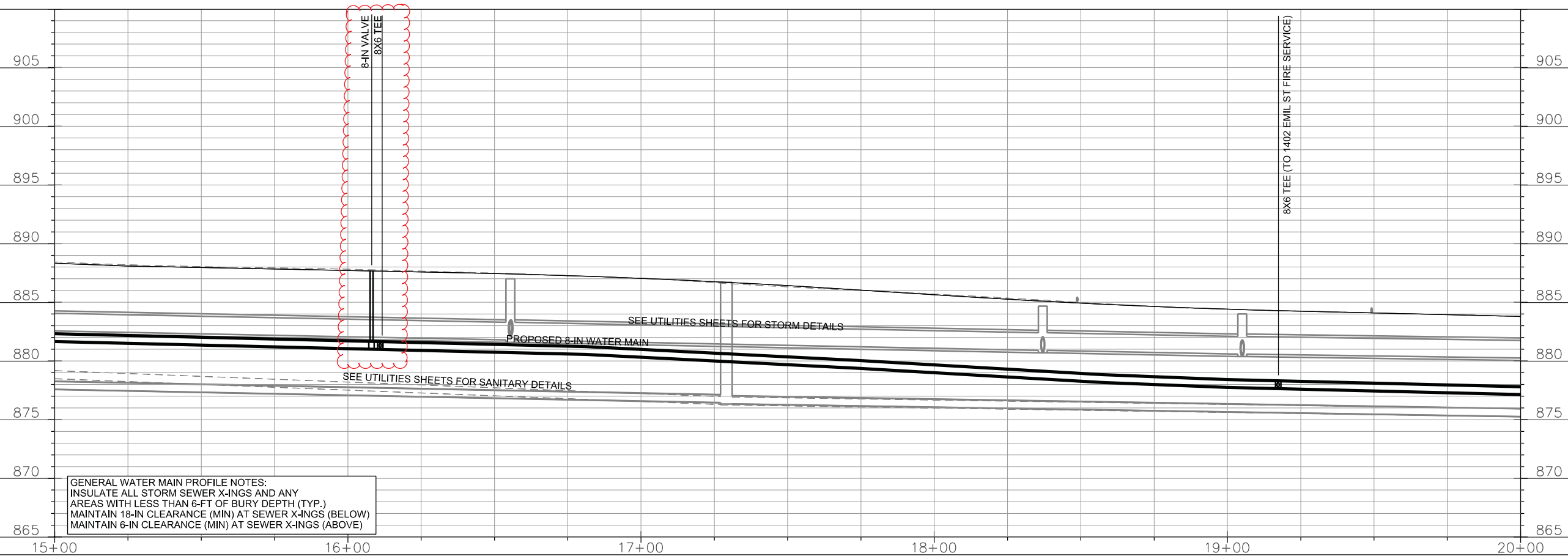
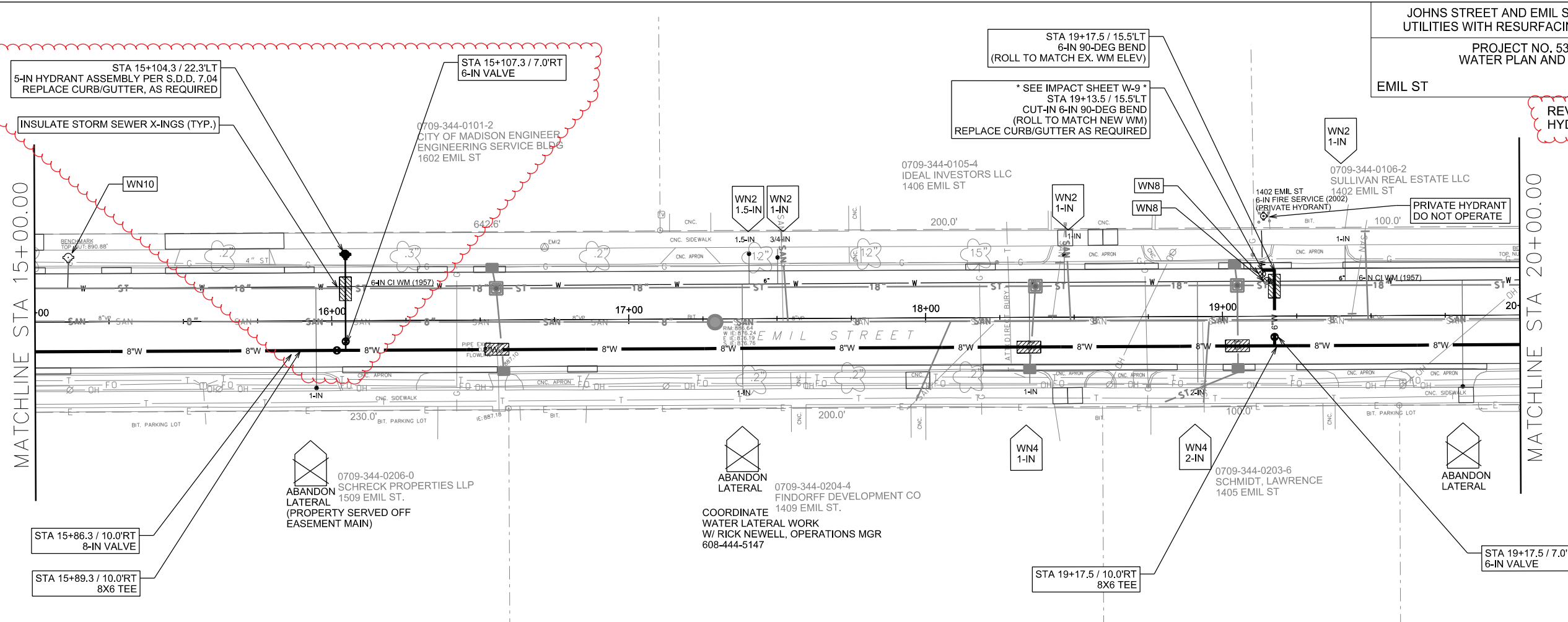
GENERAL WATER MAIN PROFILE NOTES:
 INSULATE ALL STORM SEWER X-INGS AND ANY AREAS WITH LESS THAN 6-FT OF BURY DEPTH (TYP.)
 MAINTAIN 18-IN CLEARANCE (MIN) AT SEWER X-INGS (BELOW)
 MAINTAIN 6-IN CLEARANCE (MIN) AT SEWER X-INGS (ABOVE)

PLOT SCALE:

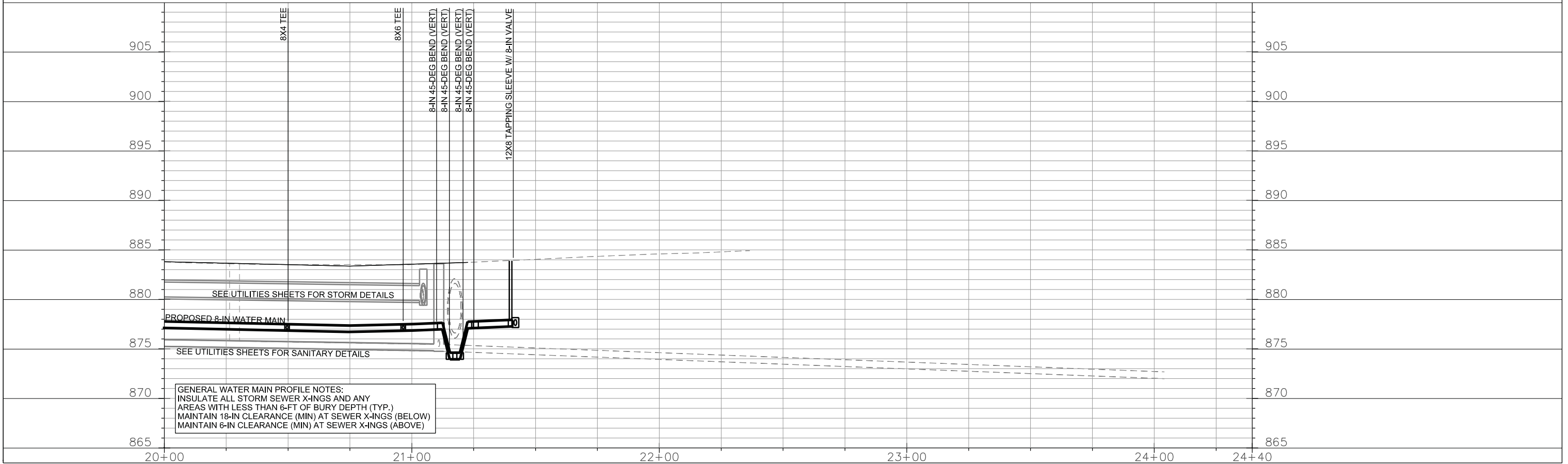
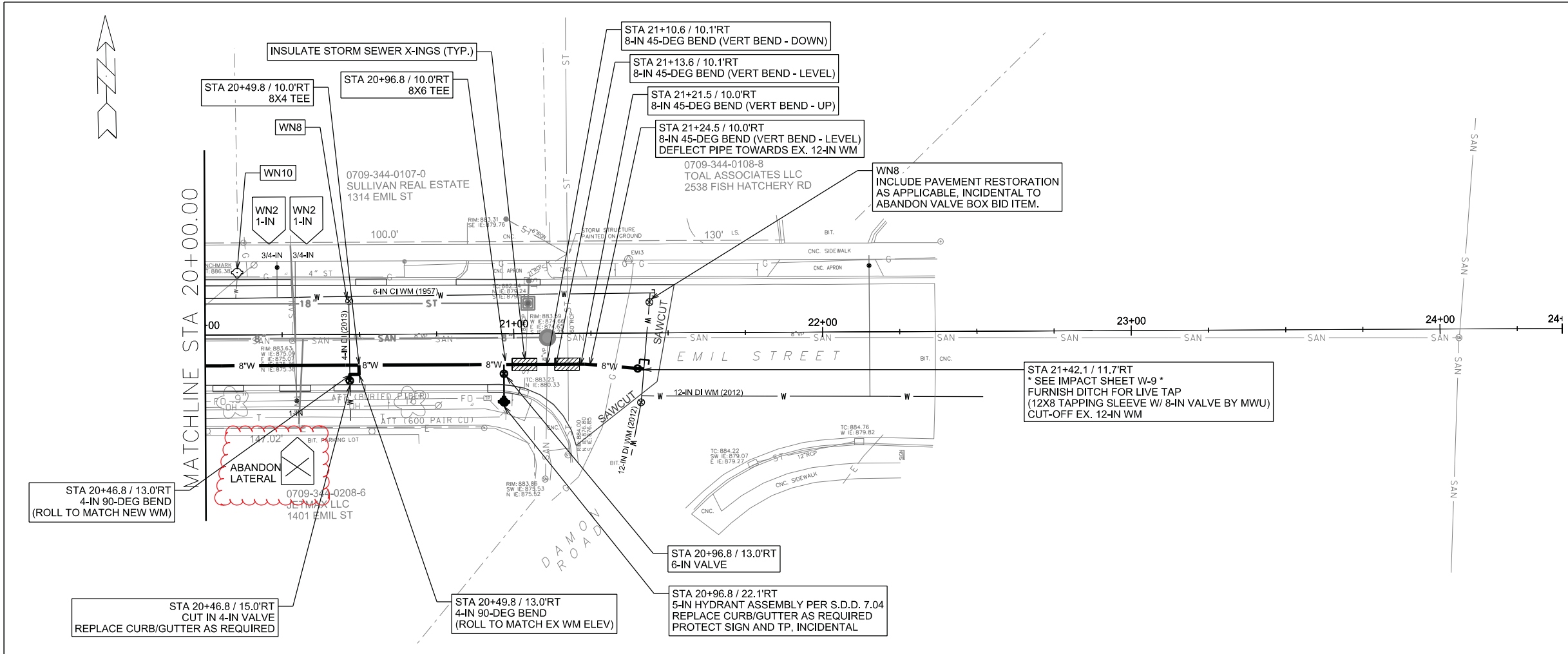
PLOT NAME:

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PLOT SCALE: _____
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GENERAL WATER MAIN PROFILE NOTES:
 INSULATE ALL STORM SEWER X-INGS AND ANY AREAS WITH LESS THAN 6-FT OF BURY DEPTH (TYP.)
 MAINTAIN 18-IN CLEARANCE (MIN) AT SEWER X-INGS (BELOW)
 MAINTAIN 6-IN CLEARANCE (MIN) AT SEWER X-INGS (ABOVE)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. 3/27/2015 - ARW
 REVISED EMIL ST MATERIAL ESTIMATE

ESTIMATE OF MATERIALS:

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

JOHNS STREET:

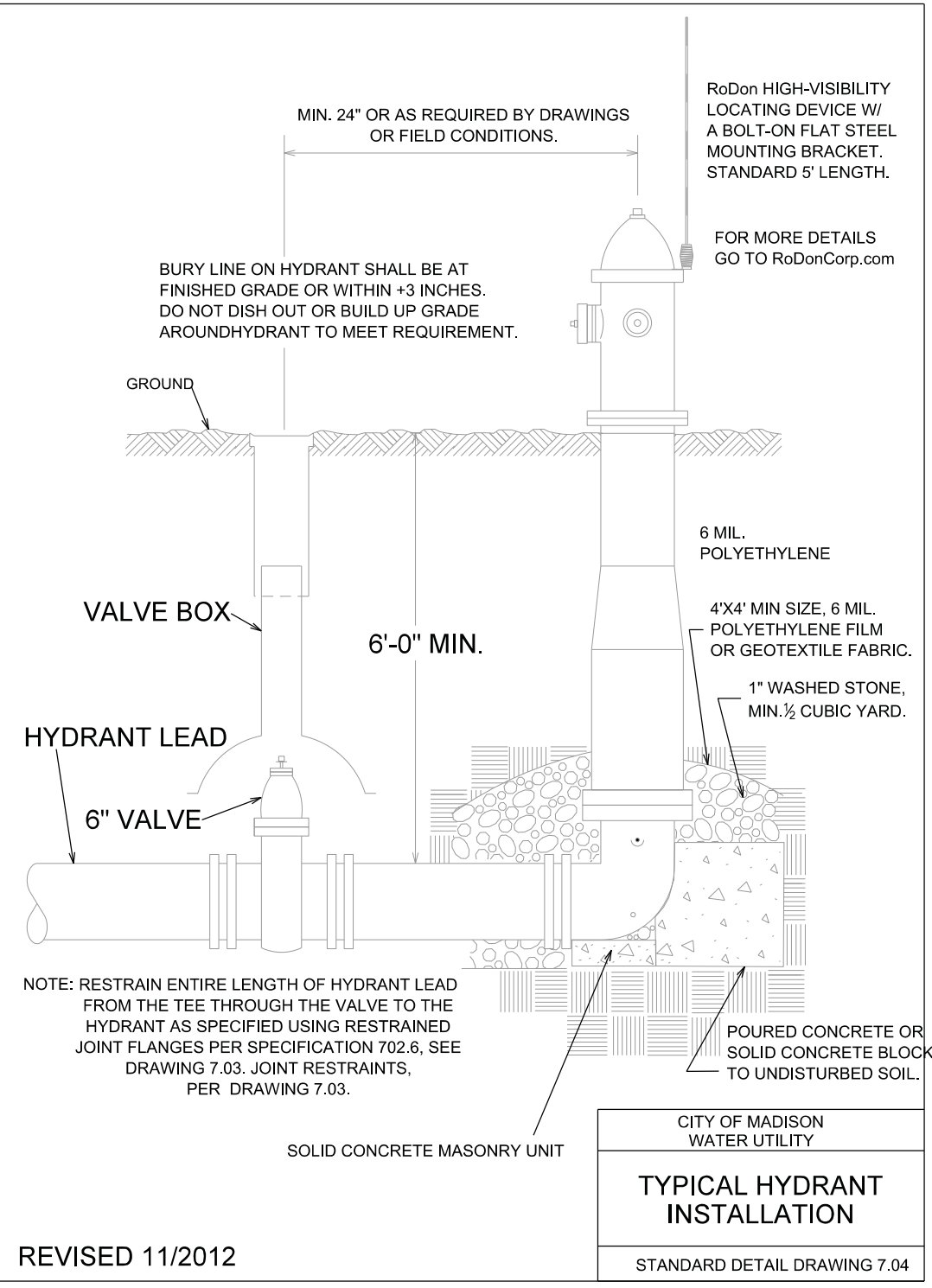
- 65-FT - 6-IN PIPE
- 1,240-FT - 8-IN PIPE
- 1,450-FT - POLYWRAP
- 2 - 6-IN VALVE & BOX
- 8 - 8-IN VALVE & BOX
- 3 - 5-IN HYDRANT
- 24-FT STYROFOAM INSULATION
- COPPER SERVICE PIPING (AS REQUIRED)
- 1 - 6-IN 90° BEND
- 3 - 8-IN 11.25° BEND
- 4 - 8-IN 45° BEND
- 1 - 8-IN 90° BEND
- 5 - 8-IN x 6-IN TEE
- 3 - 8-IN x 8-IN TEE
- 1 - 8-IN x 6-IN CROSS
- 1 - 8-IN OFFSET (24-IN OFFSET)
- 1 - 6-IN MJ PLUG
- 1 - 6-IN CAP
- 3 - 8-IN MJ PLUG
- 1 - 8-IN MJ CAP

EMIL STREET:

- 20-FT - 4-IN PIPE
 - 140-FT - 6-IN PIPE
 - 1,120-FT - 8-IN PIPE
 - 1,500-FT - POLYWRAP
 - 1 - 4-IN VALVE & BOX
 - 5 - 6-IN VALVE & BOX
 - 4 - 8-IN VALVE & BOX
 - 3 - 5-IN HYDRANT
 - 72-FT STYROFOAM INSULATION
 - COPPER SERVICE PIPING (AS REQUIRED)
 - 3 - 4-IN 90° BEND
 - 3 - 6-IN 90° BEND
 - 4 - 8-IN 45° BEND
 - 2 - 8-IN x 4-IN TEE
 - 6 - 8-IN x 6-IN TEE
 - 2 - 8-IN x 8-IN TEE
 - 0 - 8-IN x 6-IN CROSS
 - 8-IN OFFSET (24-IN OFFSET)
 - 3 - 8-IN MJ PLUG
 - 1 - 12-IN MJ CAP
- (NOTE: 12-IN x 8-IN TAPPING SLEEVE W/ 8-IN VALVE BY MWU)
 (NOTE: (1) 2-IN CURB STOP AND VALVE BOX FURNISHED BY MWU)

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
- WN:J# / WN:H# / WN:L# / WN:G#** - SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.



CITY OF MADISON WATER UTILITY
TYPICAL HYDRANT INSTALLATION
 STANDARD DETAIL DRAWING 7.04

REVISED 11/2012

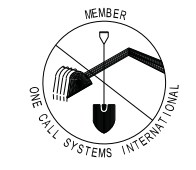
PLOT SCALE:

PLOT NAME:

REV. DATE:

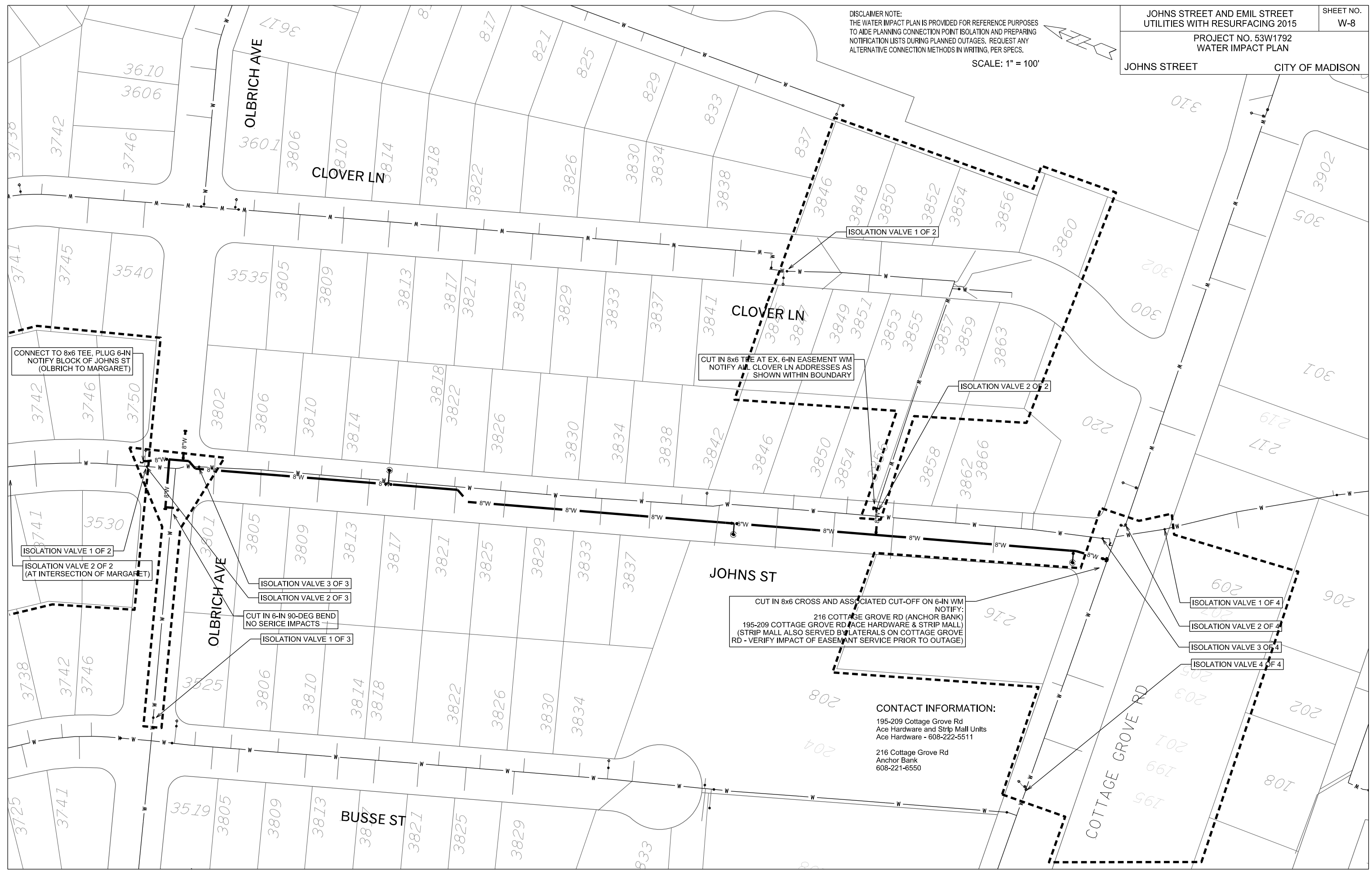
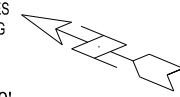
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
 CALL DIGGERS HOTLINE TOLL FREE
 811 OR 1-800-242-8511
 FAX-A-LOCATE 1-800-338-3860
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289
 WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE:
 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.

SCALE: 1" = 100'



CONNECT TO 8x6 TEE, PLUG 6-IN
 NOTIFY BLOCK OF JOHN'S ST
 (OLBRICH TO MARGARET)

CUT IN 8x6 TEE AT EX. 6-IN EASEMENT WM
 NOTIFY ALL CLOVER LN ADDRESSES AS
 SHOWN WITHIN BOUNDARY

ISOLATION VALVE 1 OF 2
 ISOLATION VALVE 2 OF 2
 (AT INTERSECTION OF MARGARET)

ISOLATION VALVE 3 OF 3
 ISOLATION VALVE 2 OF 3
 CUT IN 6-IN 90-DEG BEND
 NO SERVICE IMPACTS
 ISOLATION VALVE 1 OF 3

CUT IN 8x6 CROSS AND ASSOCIATED CUT-OFF ON 6-IN WM
 NOTIFY:
 216 COTTAGE GROVE RD (ANCHOR BANK)
 195-209 COTTAGE GROVE RD (ACE HARDWARE & STRIP MALL)
 (STRIP MALL ALSO SERVED BY LATERALS ON COTTAGE GROVE
 RD - VERIFY IMPACT OF EASEMENT SERVICE PRIOR TO OUTAGE)

ISOLATION VALVE 1 OF 4
 ISOLATION VALVE 2 OF 4
 ISOLATION VALVE 3 OF 4
 ISOLATION VALVE 4 OF 4

CONTACT INFORMATION:
 195-209 Cottage Grove Rd
 Ace Hardware and Strip Mall Units
 Ace Hardware - 608-222-5511
 216 Cottage Grove Rd
 Anchor Bank
 608-221-6550

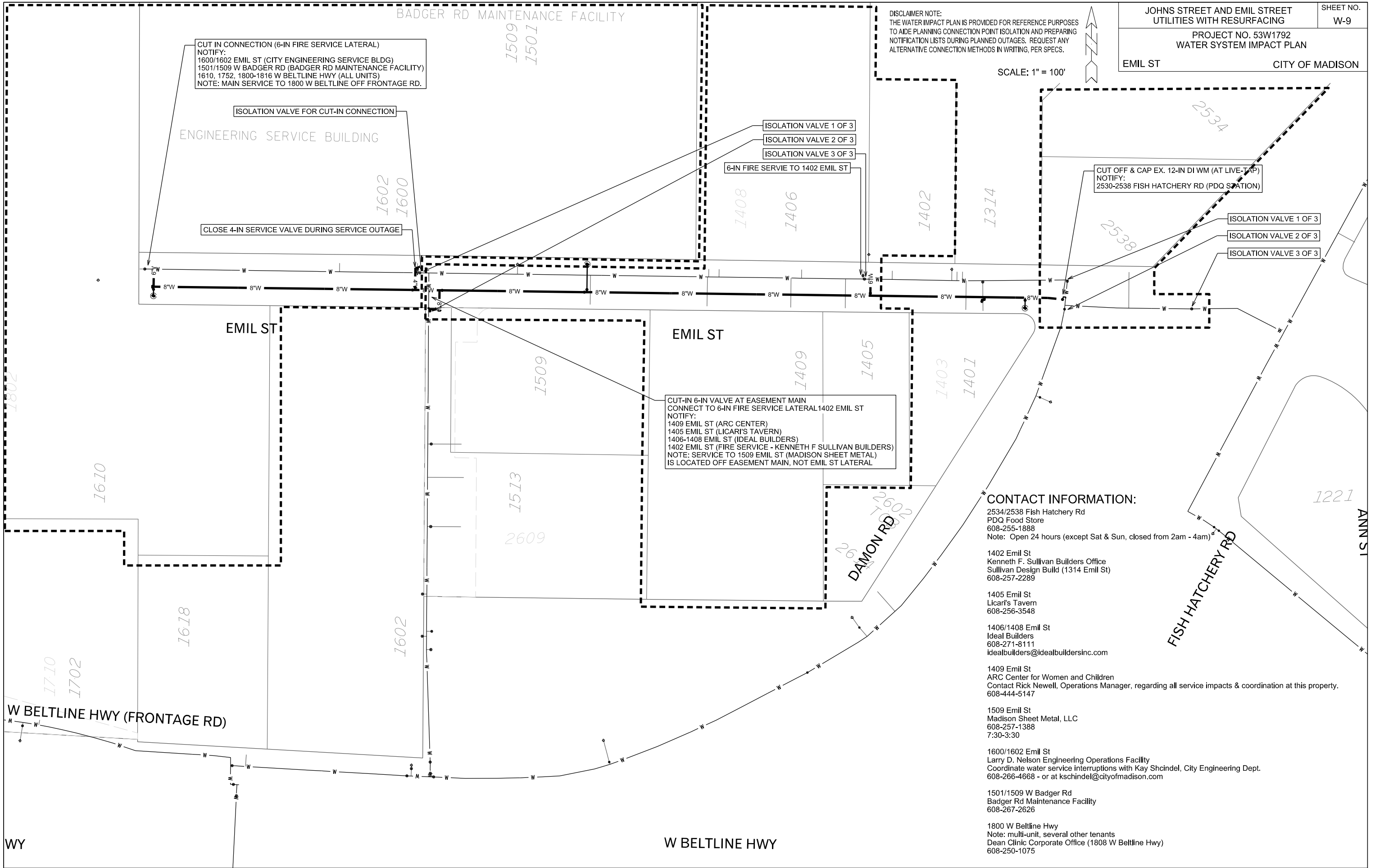
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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



CUT IN CONNECTION (6-IN FIRE SERVICE LATERAL)
NOTIFY:
1600/1602 EMIL ST (CITY ENGINEERING SERVICE BLDG)
1501/1509 W BADGER RD (BADGER RD MAINTENANCE FACILITY)
1610, 1752, 1800-1816 W BELTLINE HWY (ALL UNITS)
NOTE: MAIN SERVICE TO 1800 W BELTLINE OFF FRONTAGE RD.

ISOLATION VALVE FOR CUT-IN CONNECTION

ENGINEERING SERVICE BUILDING

CLOSE 4-IN SERVICE VALVE DURING SERVICE OUTAGE

ISOLATION VALVE 1 OF 3
ISOLATION VALVE 2 OF 3
ISOLATION VALVE 3 OF 3

6-IN FIRE SERVICE TO 1402 EMIL ST

CUT OFF & CAP EX. 12-IN DI WM (AT LIVE-TAP)
NOTIFY:
2530-2538 FISH HATCHERY RD (PDQ STATION)

ISOLATION VALVE 1 OF 3

ISOLATION VALVE 2 OF 3

ISOLATION VALVE 3 OF 3

CUT-IN 6-IN VALVE AT EASEMENT MAIN
CONNECT TO 6-IN FIRE SERVICE LATERAL 1402 EMIL ST
NOTIFY:
1409 EMIL ST (ARC CENTER)
1405 EMIL ST (LICARI'S TAVERN)
1406-1408 EMIL ST (IDEAL BUILDERS)
1402 EMIL ST (FIRE SERVICE - KENNETH F SULLIVAN BUILDERS)
NOTE: SERVICE TO 1509 EMIL ST (MADISON SHEET METAL)
IS LOCATED OFF EASEMENT MAIN, NOT EMIL ST LATERAL

CONTACT INFORMATION:

2534/2538 Fish Hatchery Rd
PDQ Food Store
608-255-1888
Note: Open 24 hours (except Sat & Sun, closed from 2am - 4am)

1402 Emil St
Kenneth F. Sullivan Builders Office
Sullivan Design Build (1314 Emil St)
608-257-2289

1405 Emil St
Licari's Tavern
608-256-3548

1406/1408 Emil St
Ideal Builders
608-271-8111
idealbuilders@idealbuildersinc.com

1409 Emil St
ARC Center for Women and Children
Contact Rick Newell, Operations Manager, regarding all service impacts & coordination at this property.
608-444-5147

1509 Emil St
Madison Sheet Metal, LLC
608-257-1388
7:30-3:30

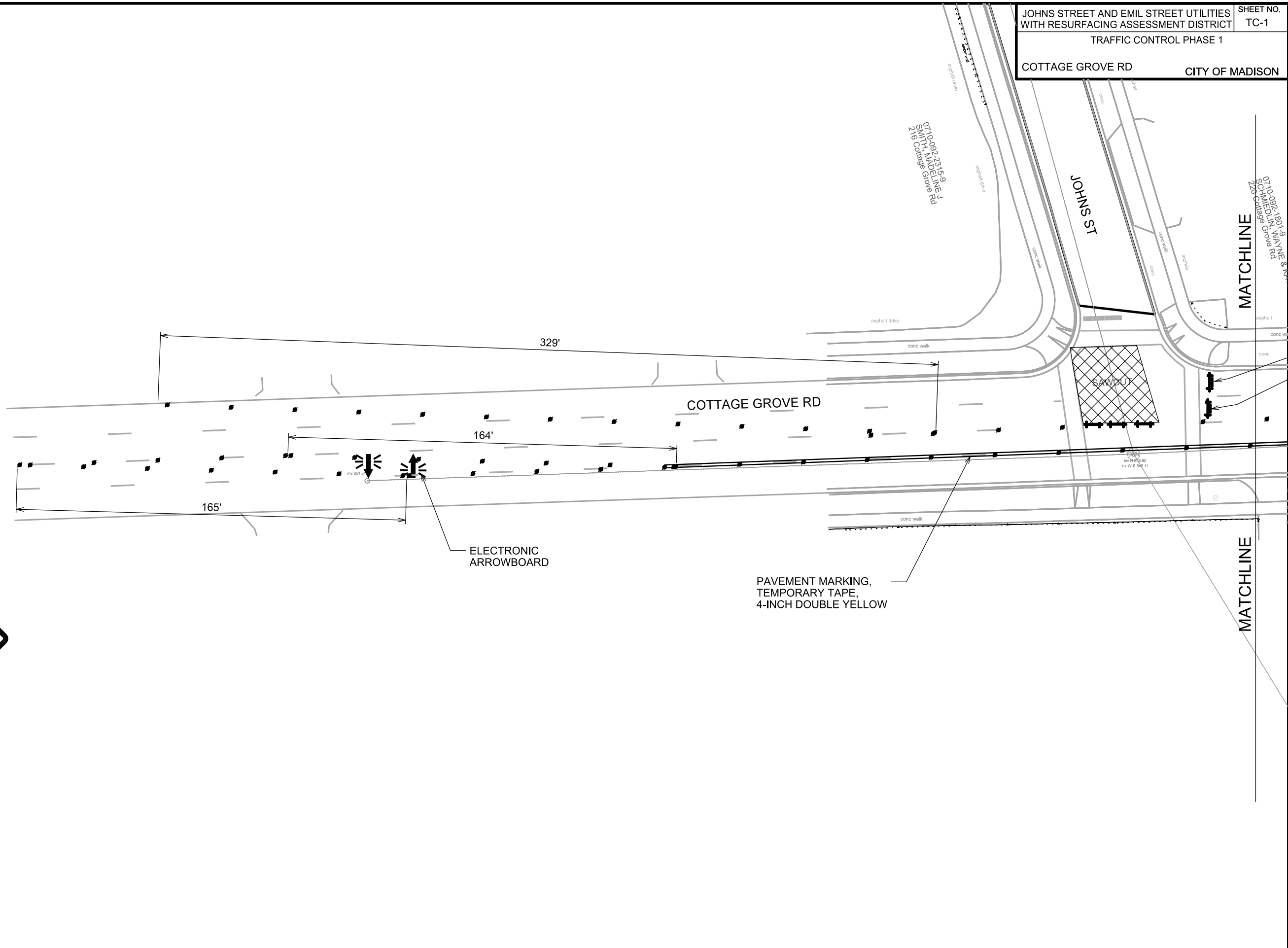
1600/1602 Emil St
Larry D. Nelson Engineering Operations Facility
Coordinate water service interruptions with Kay Schindel, City Engineering Dept.
608-266-4668 - or at kschindel@cityofmadison.com

1501/1509 W Badger Rd
Badger Rd Maintenance Facility
608-267-2626

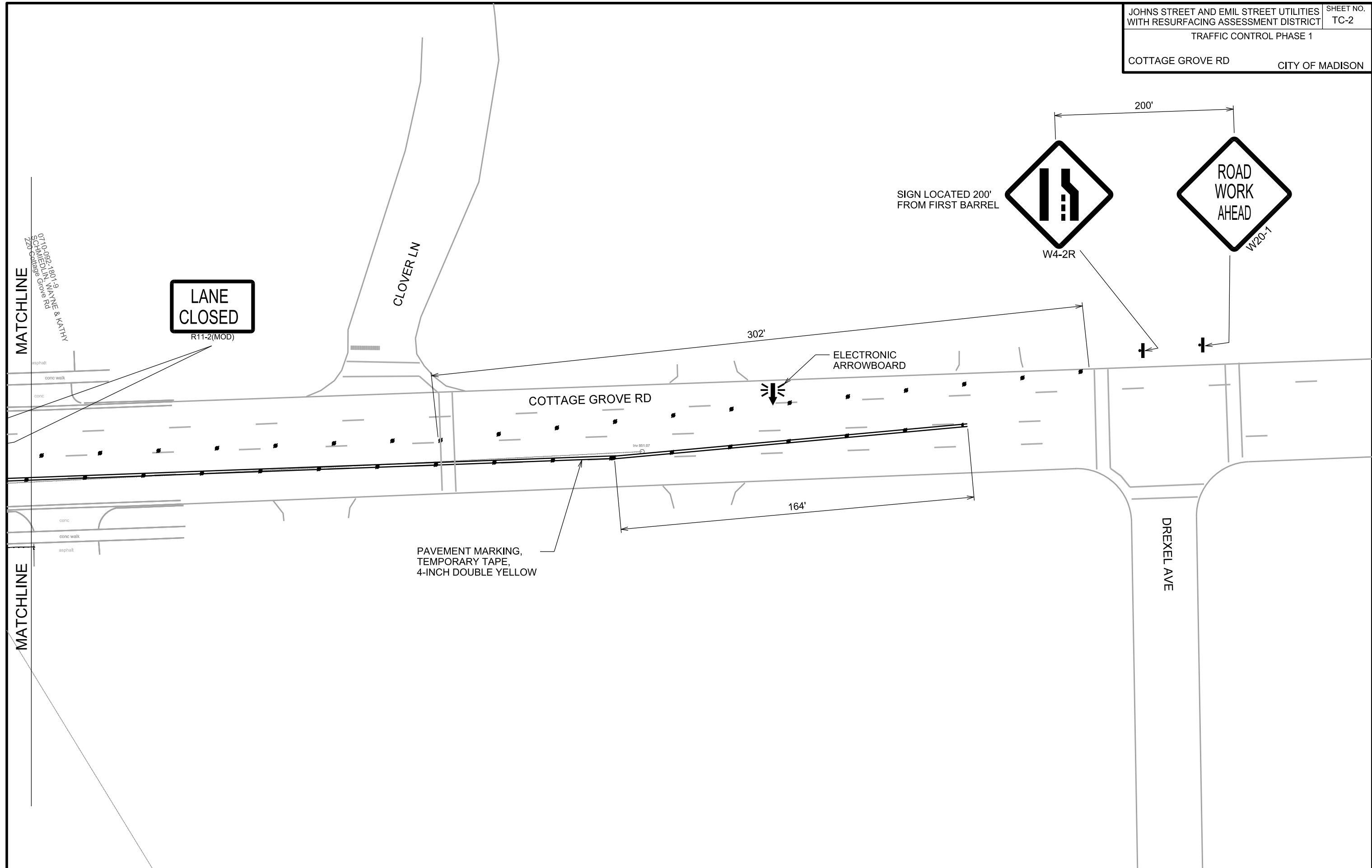
1800 W Beltline Hwy
Note: multi-unit, several other tenants
Dean Clinic Corporate Office (1808 W Beltline Hwy)
608-250-1075

DATE:

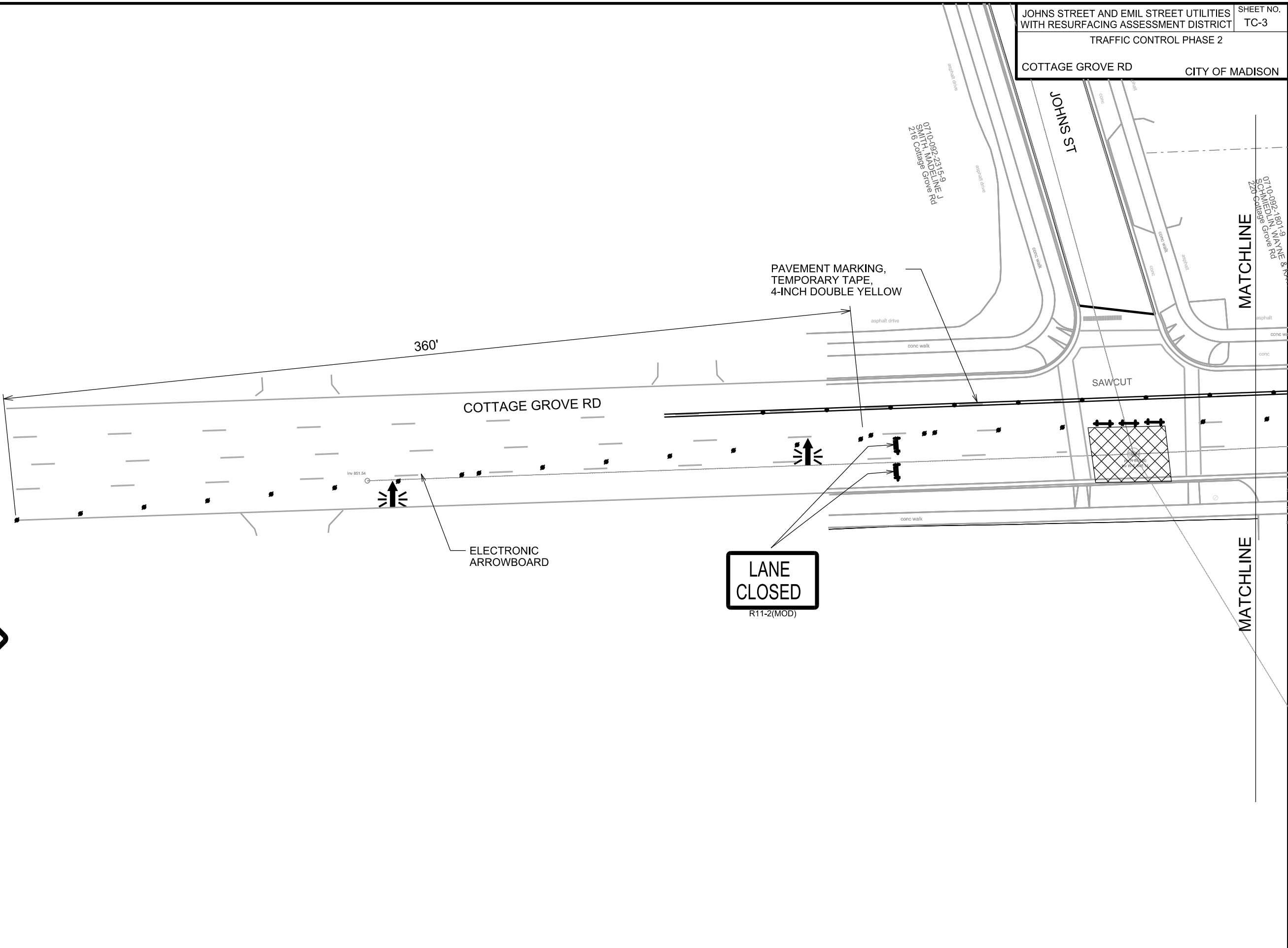
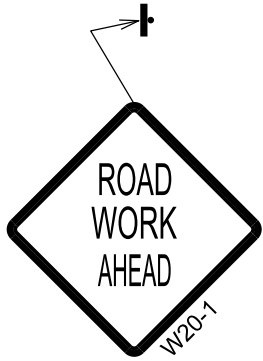
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PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



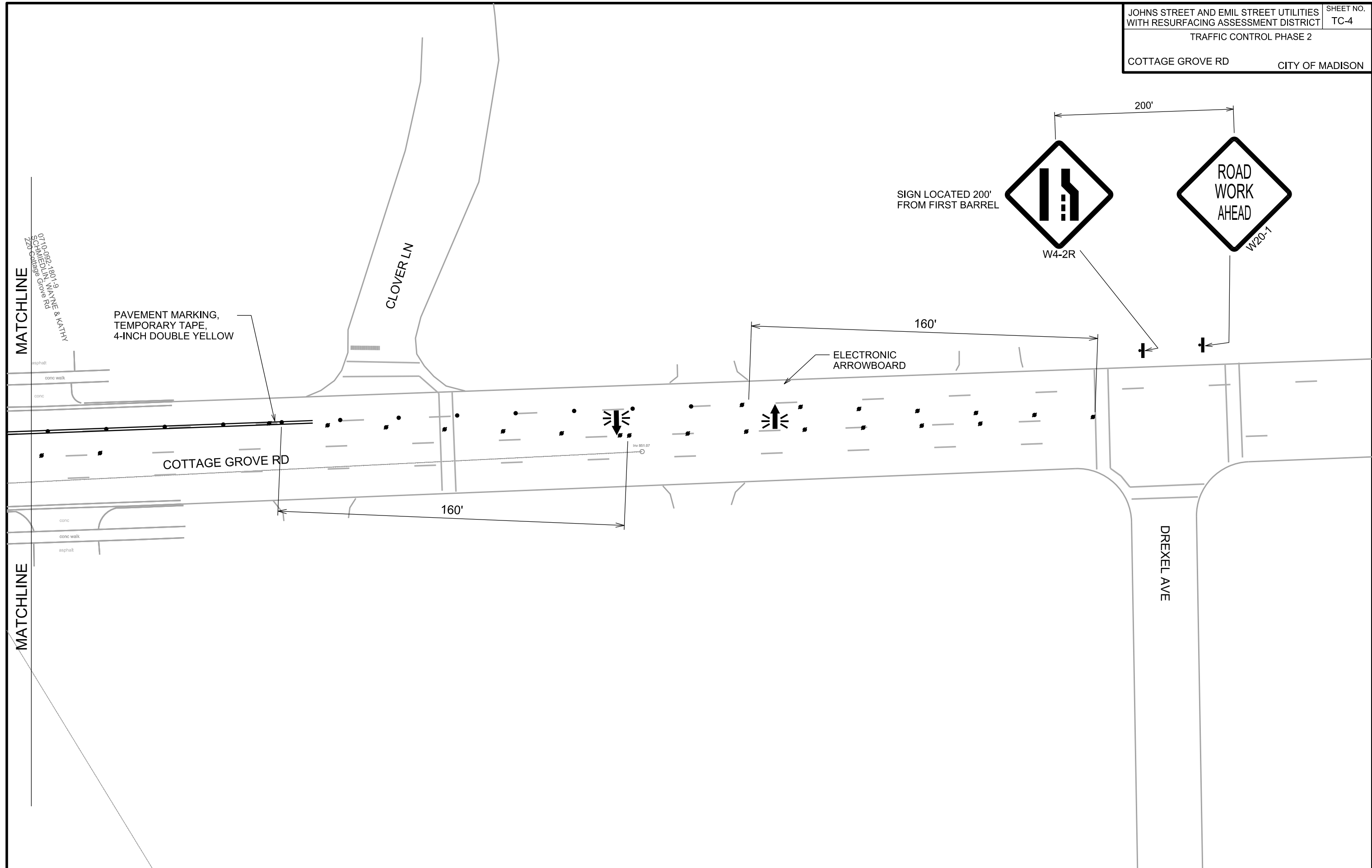
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PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



CROSS SECTIONS

JOHNS STREET

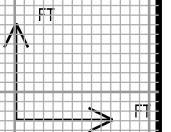
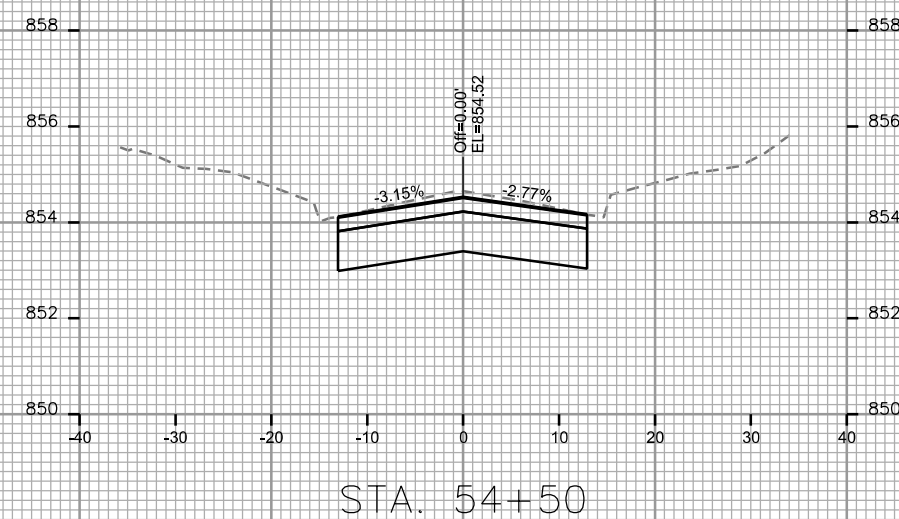
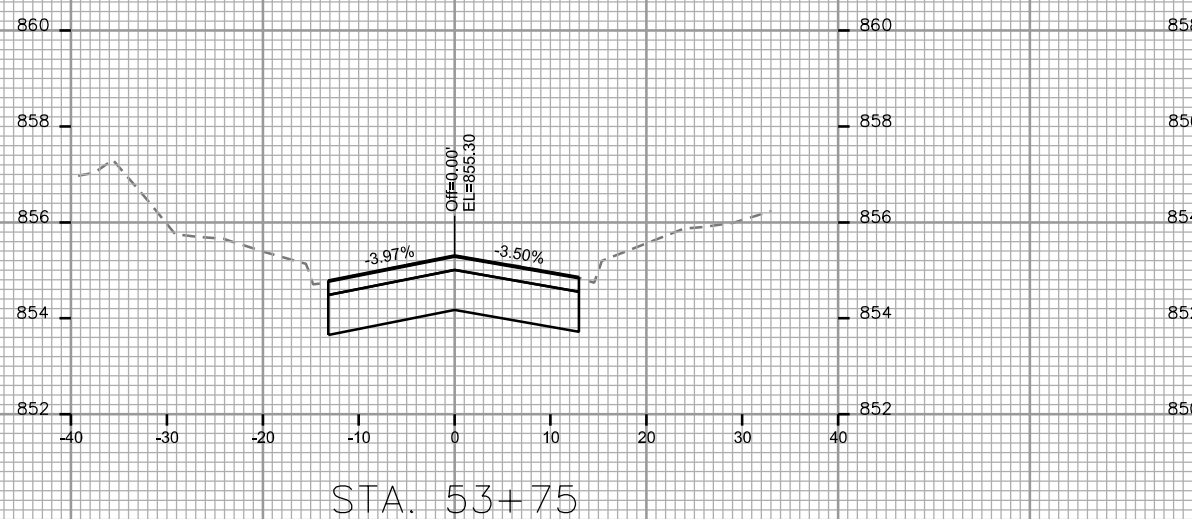
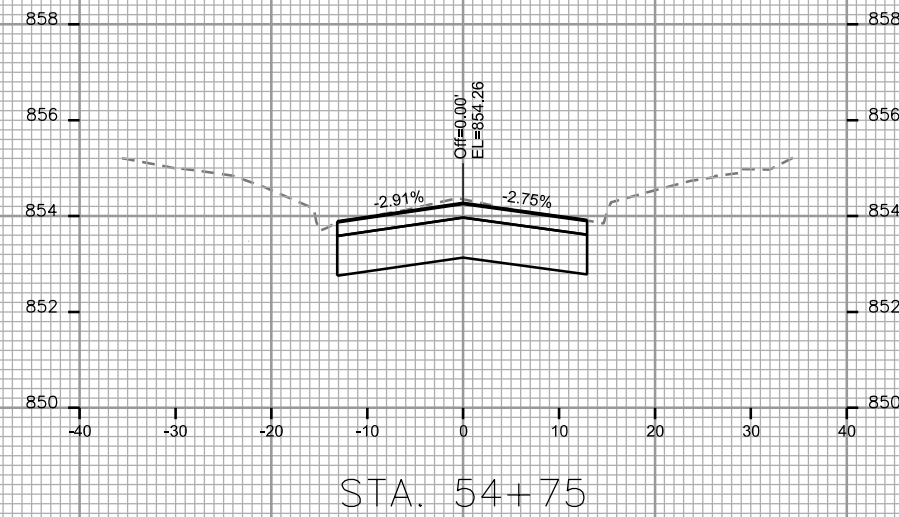
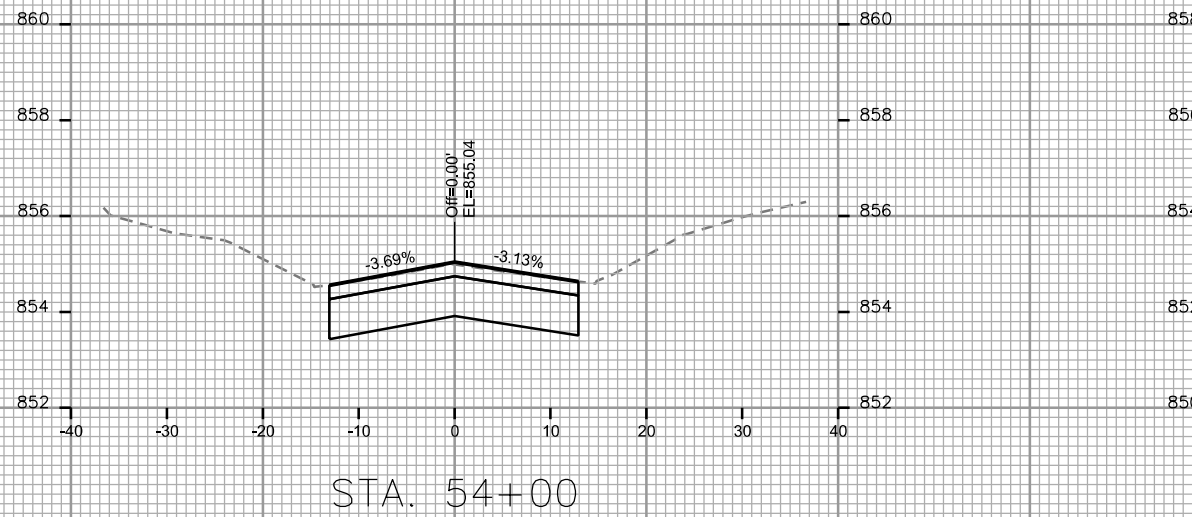
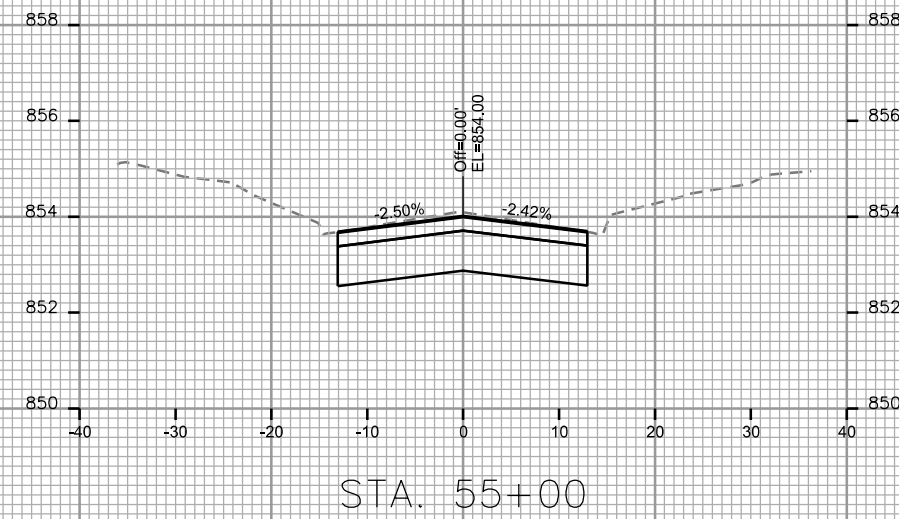
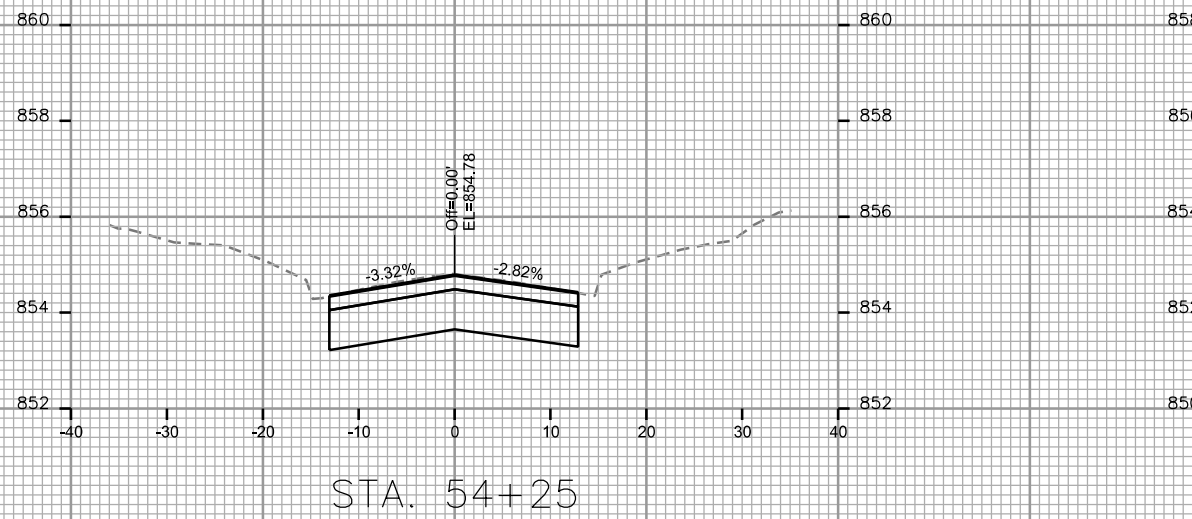
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

JOHNS STREET

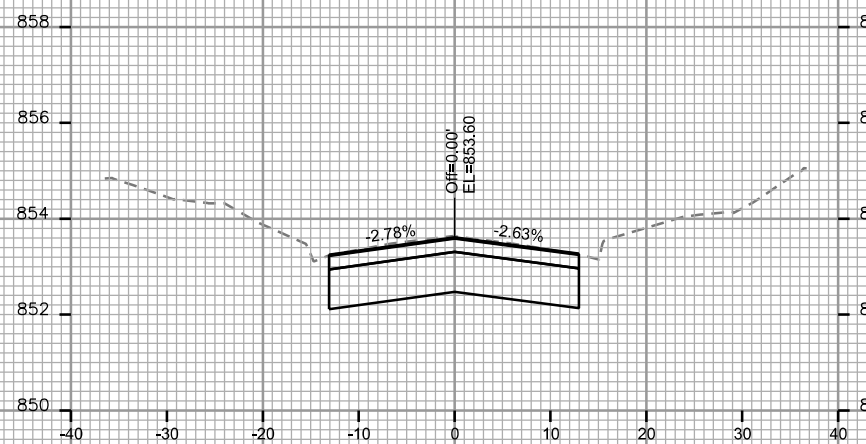
CITY OF MADISON

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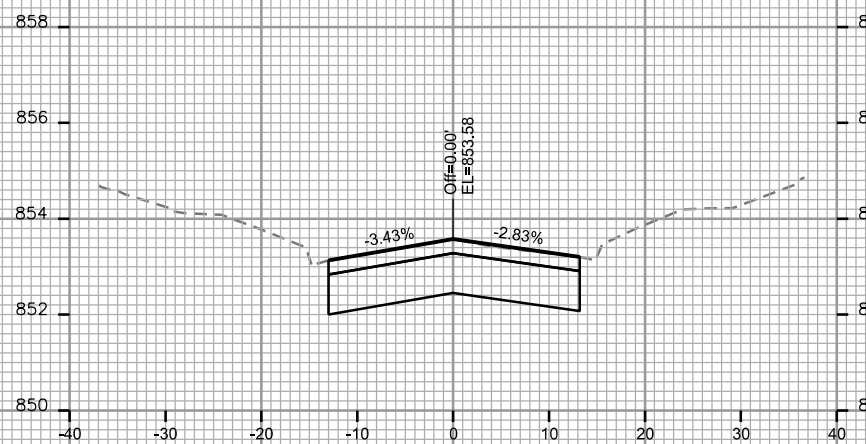
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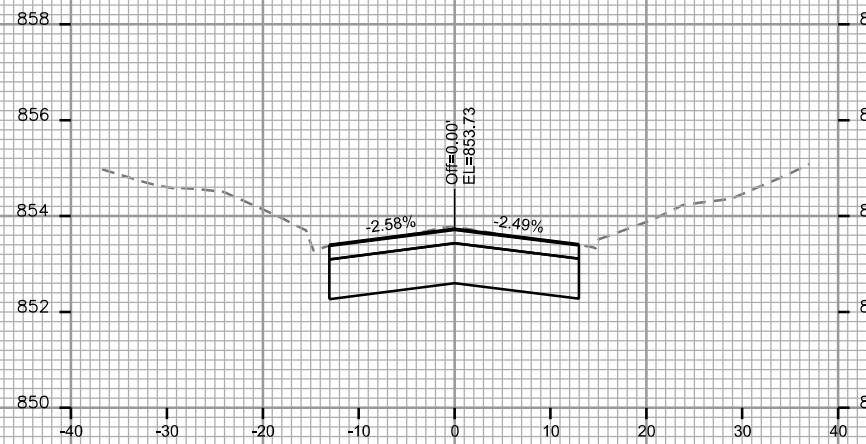
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



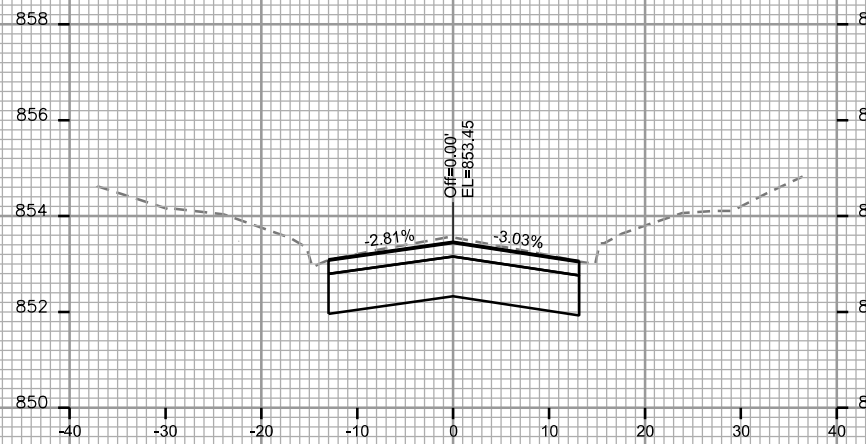
STA. 55+75



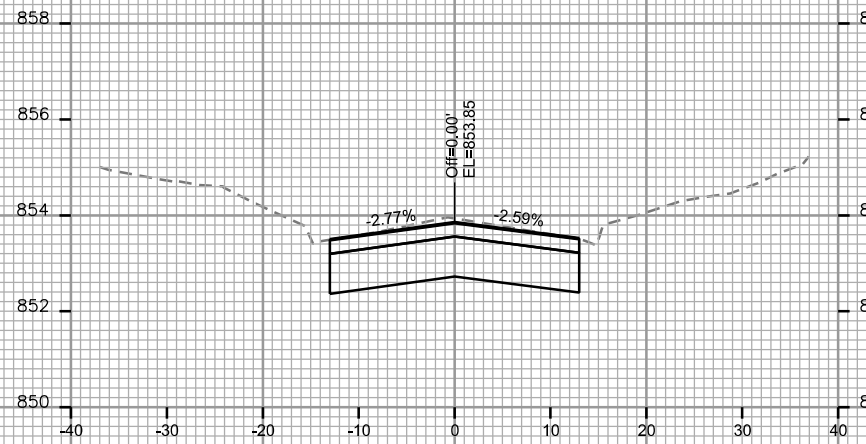
STA. 56+50



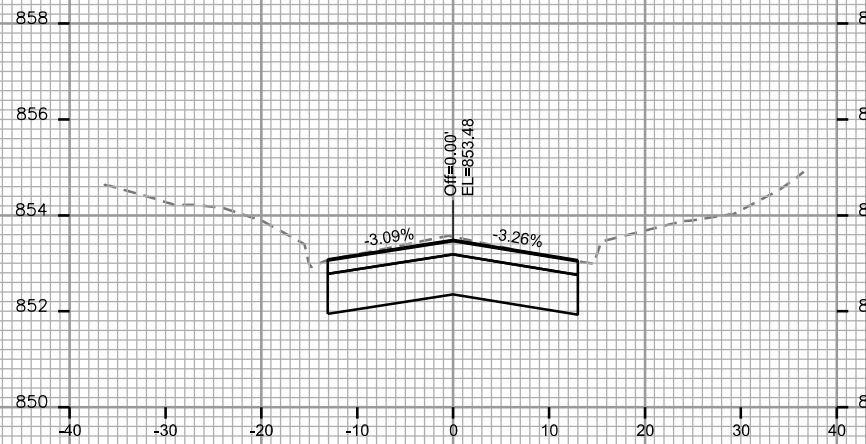
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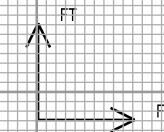
STA. 56+25



STA. 55+25



STA. 56+00



CROSS SECTIONS

JOHNS STREET

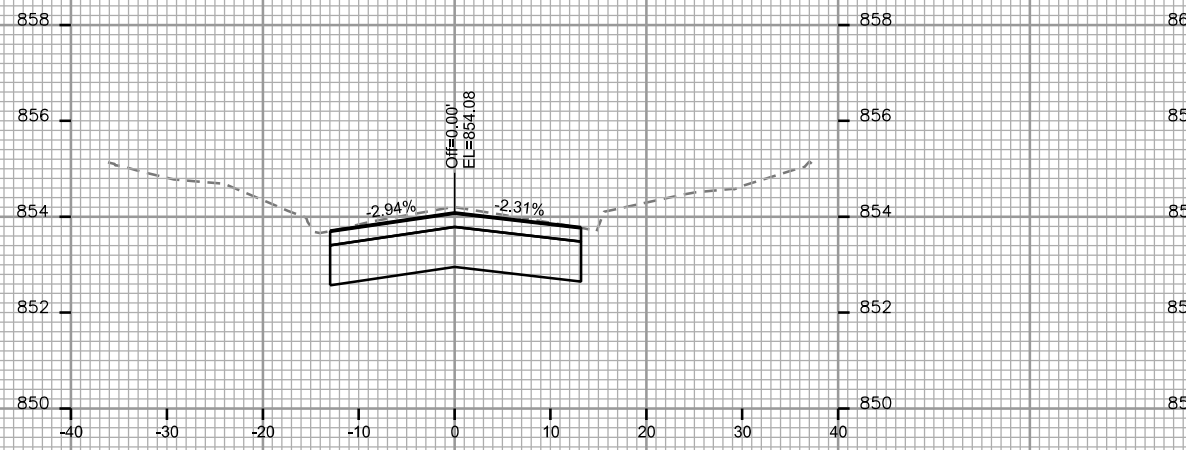
CITY OF MADISON

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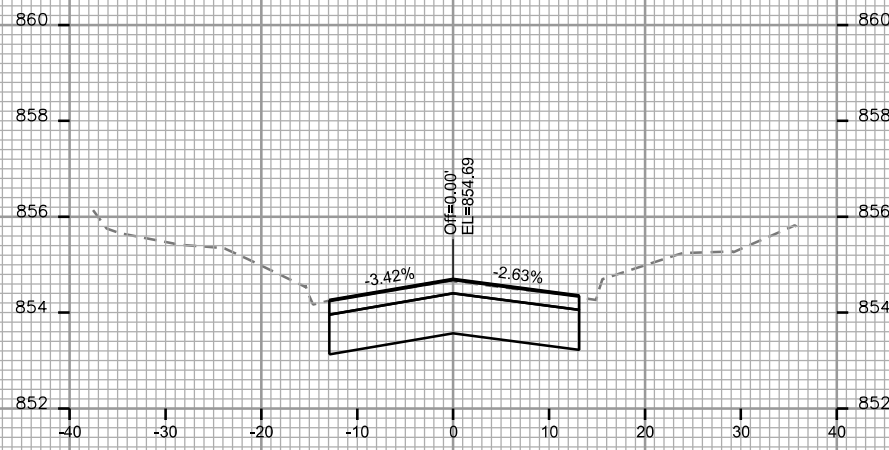
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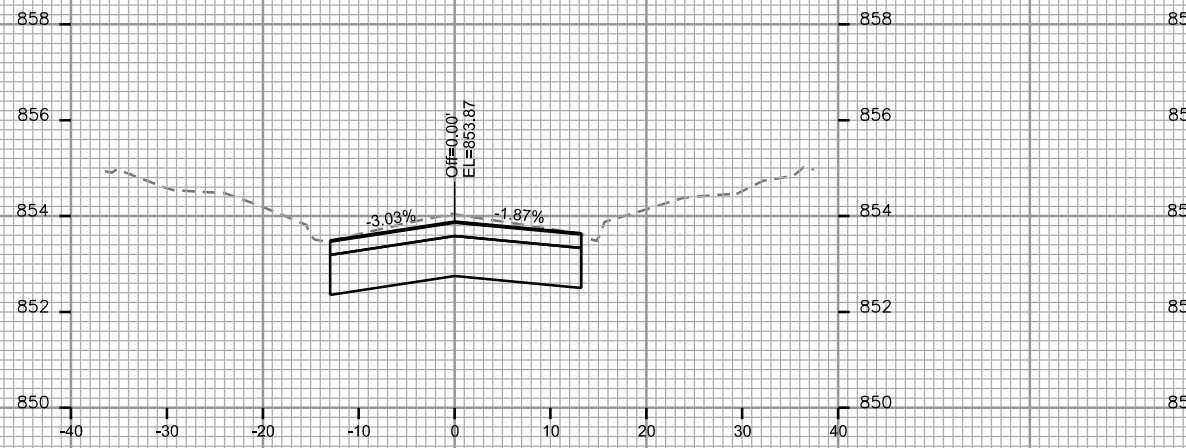
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



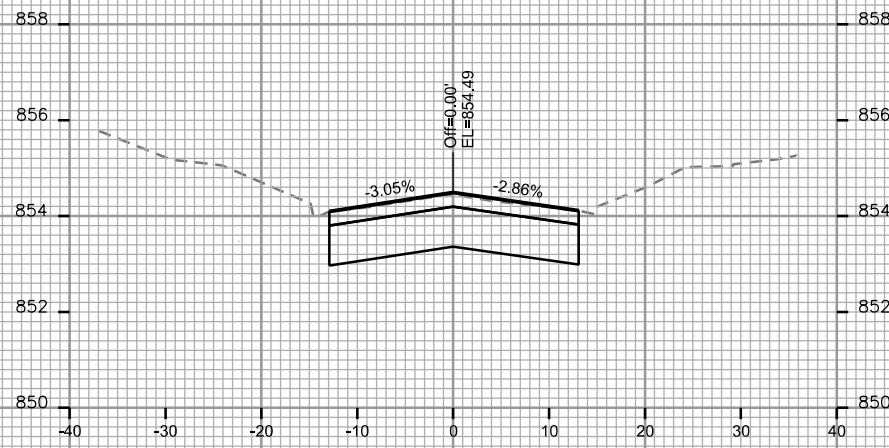
STA. 57+25



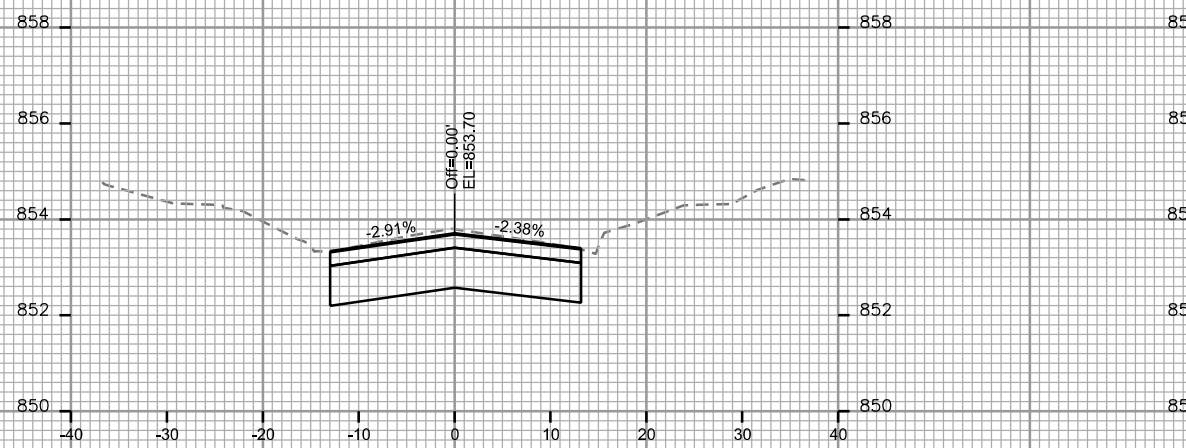
STA. 58+00



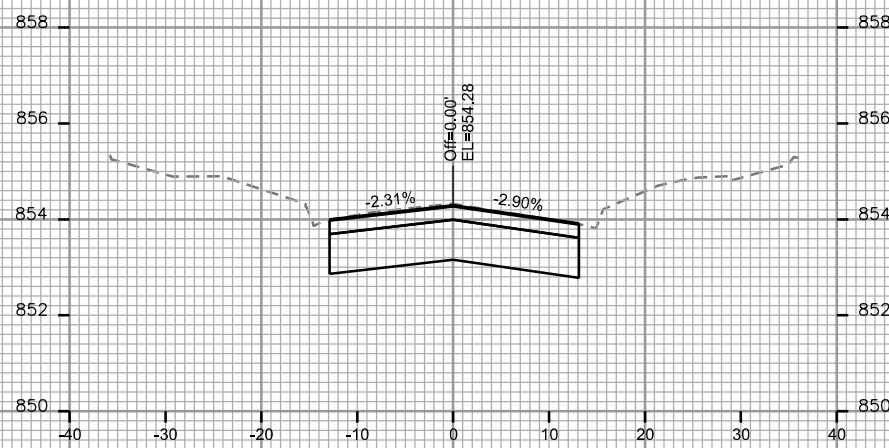
STA. 57+00



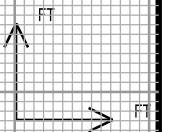
STA. 57+75



STA. 56+75



STA. 57+50



CROSS SECTIONS

JOHNS STREET

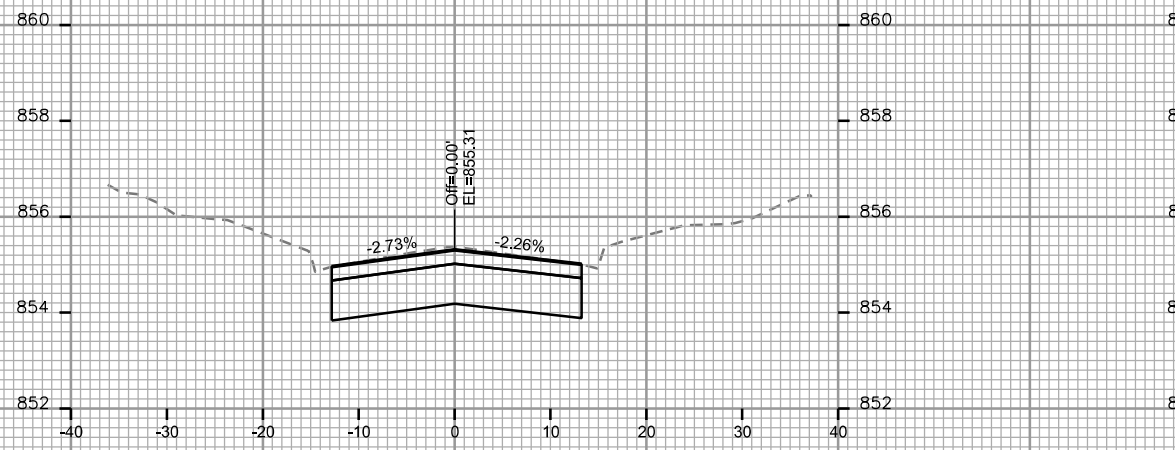
CITY OF MADISON

PLOT SCALE:

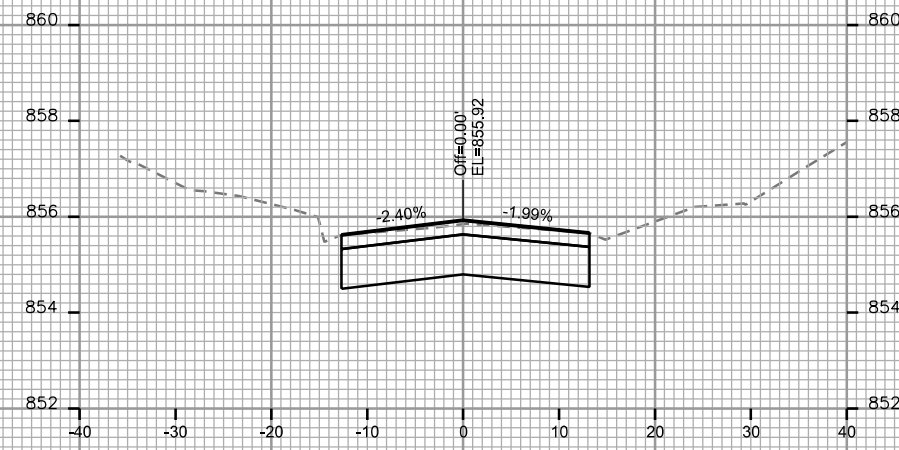
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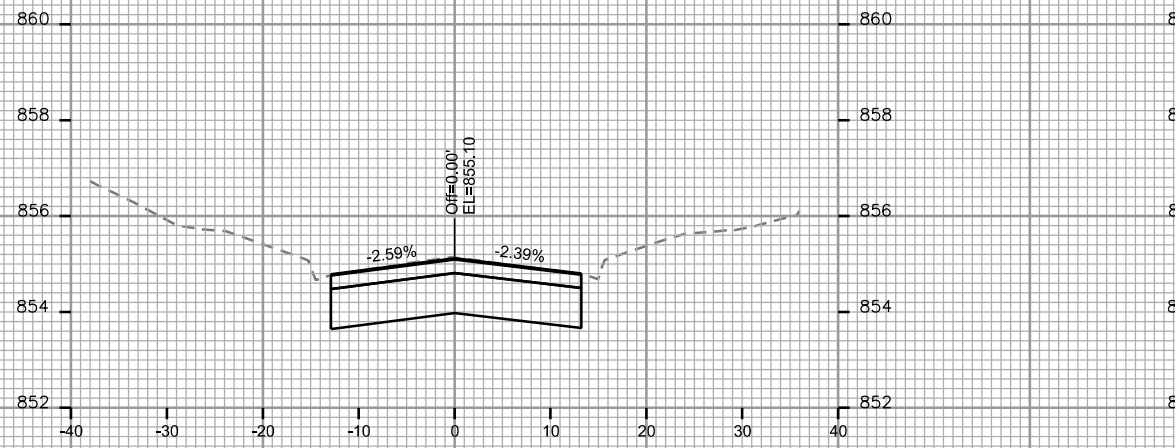
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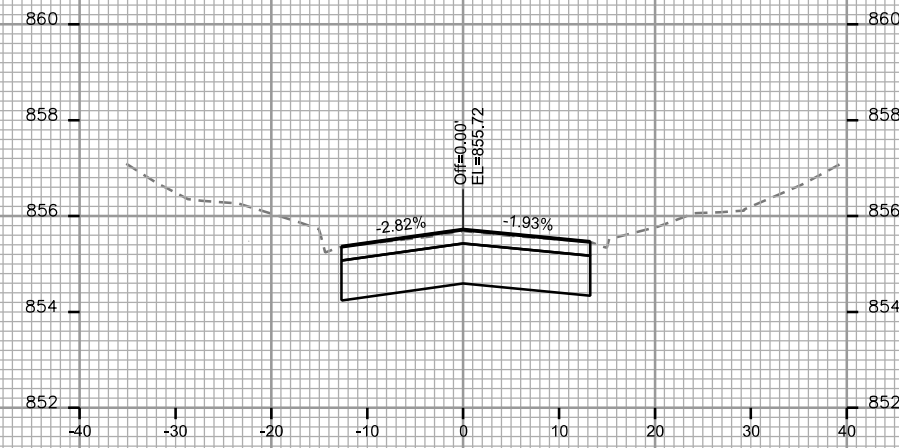
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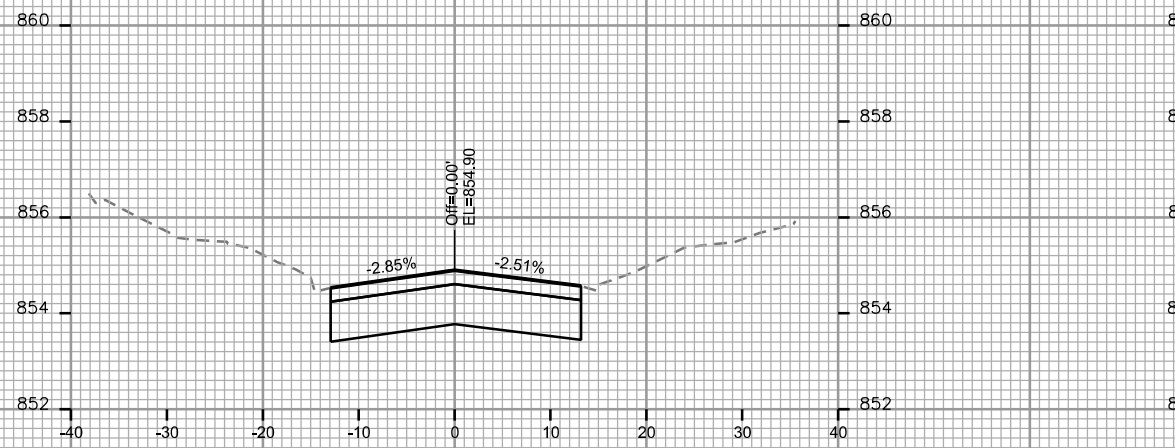
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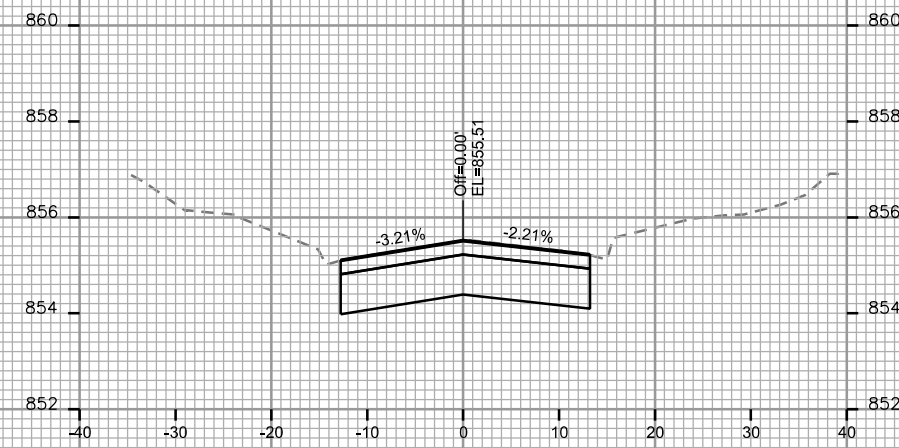
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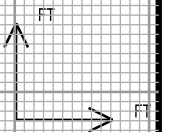
STA. 59+25



STA. 58+25



STA. 59+00



CROSS SECTIONS

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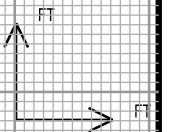
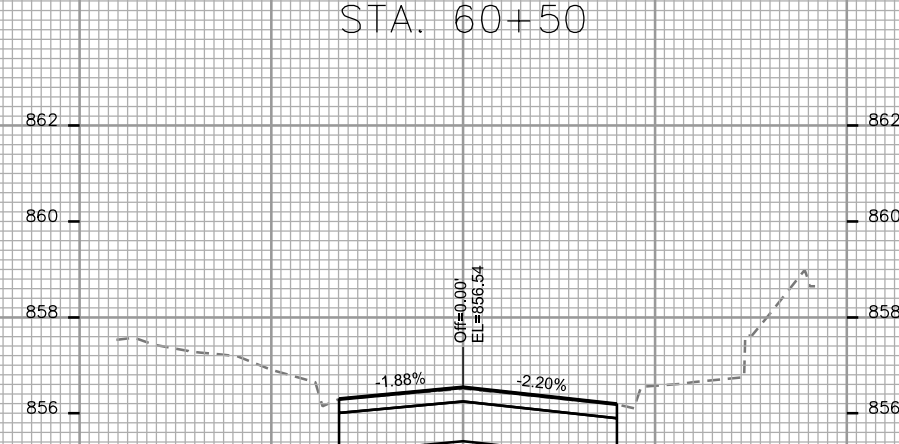
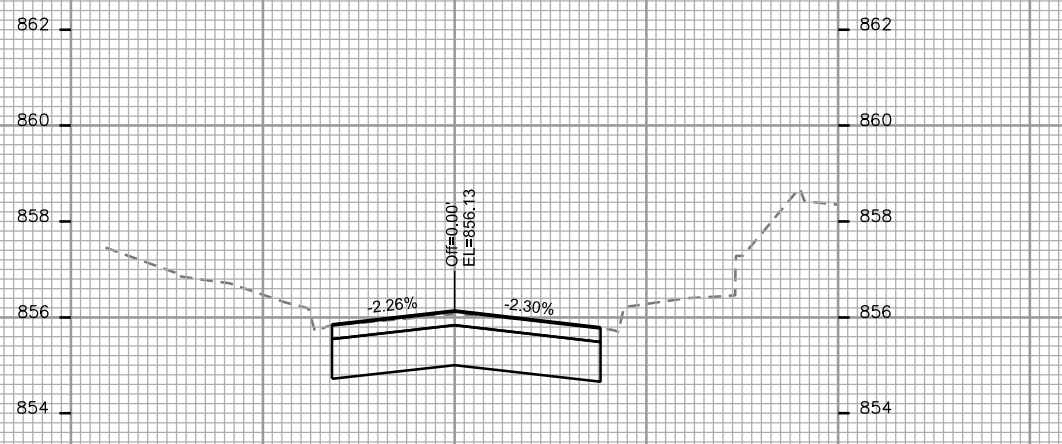
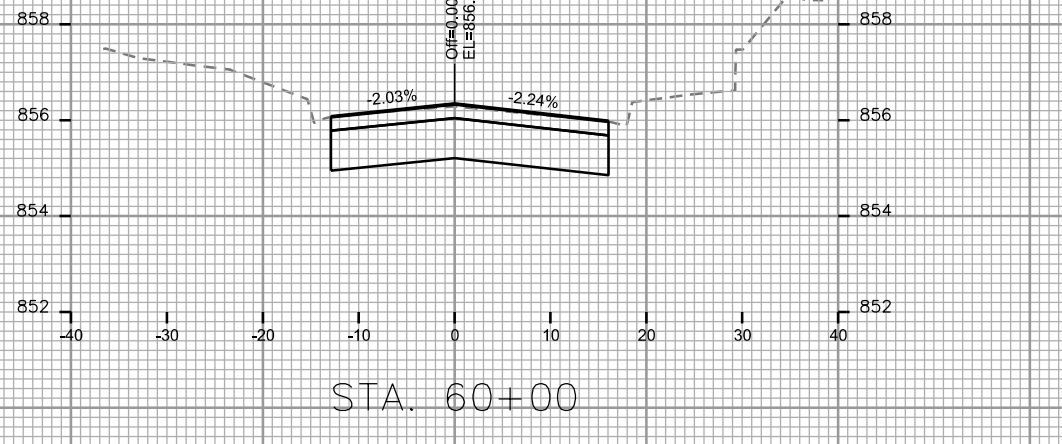
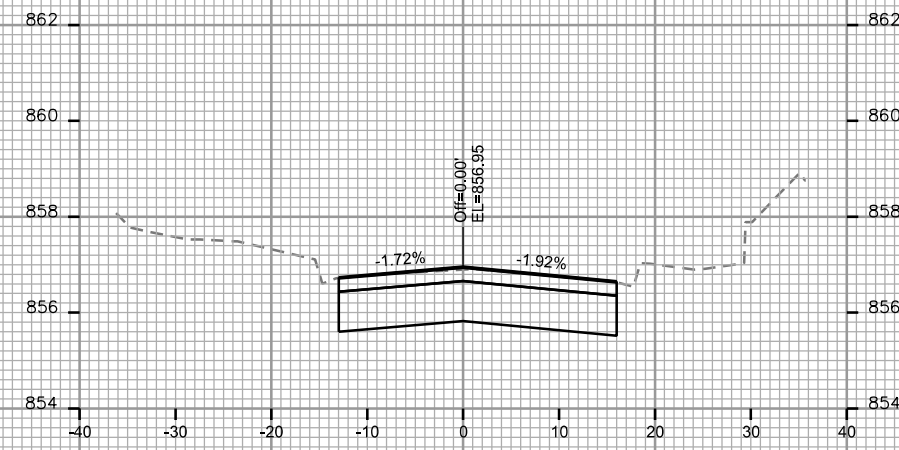
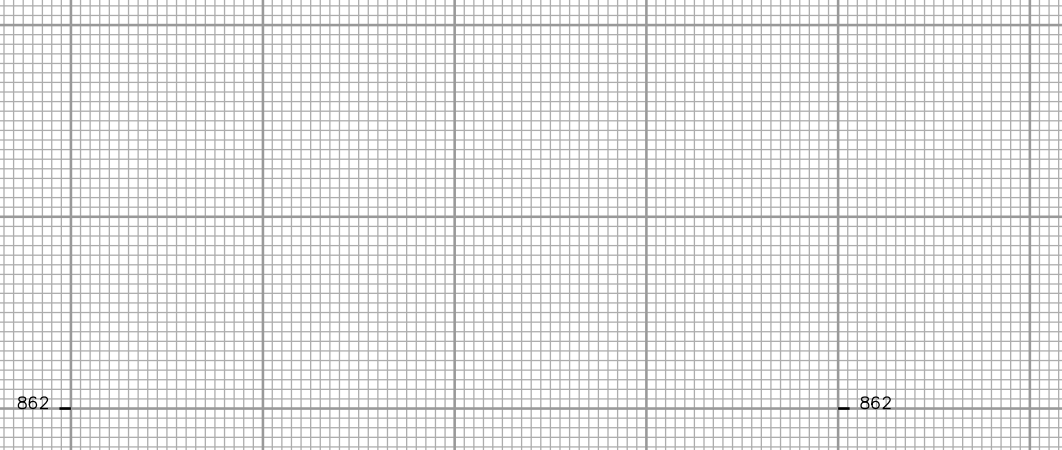
CITY OF MADISON

PLOT SCALE:

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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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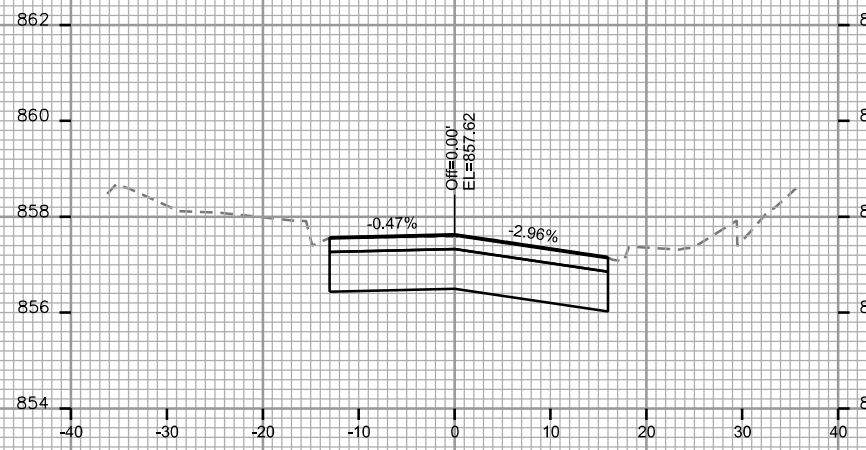
CITY OF MADISON

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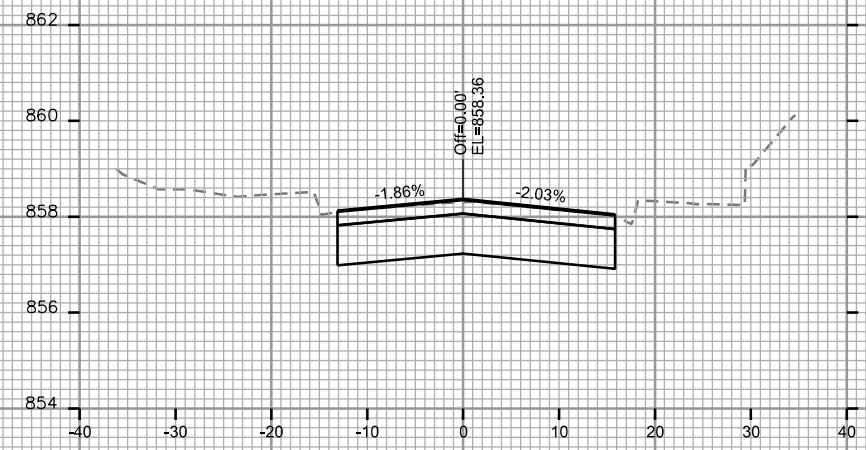
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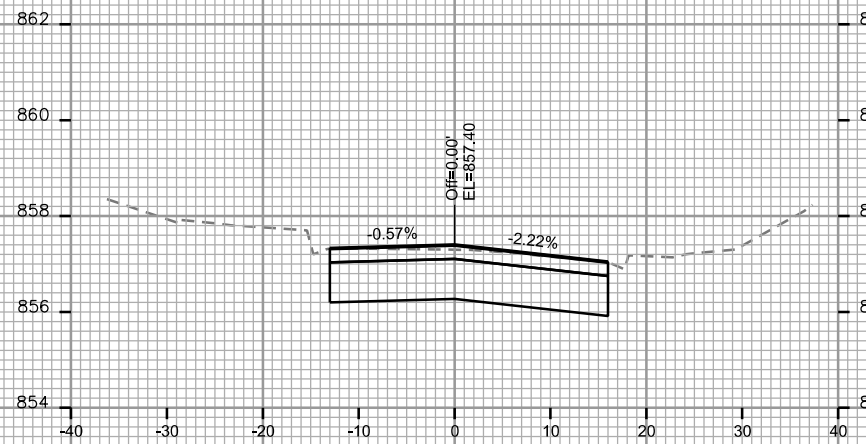
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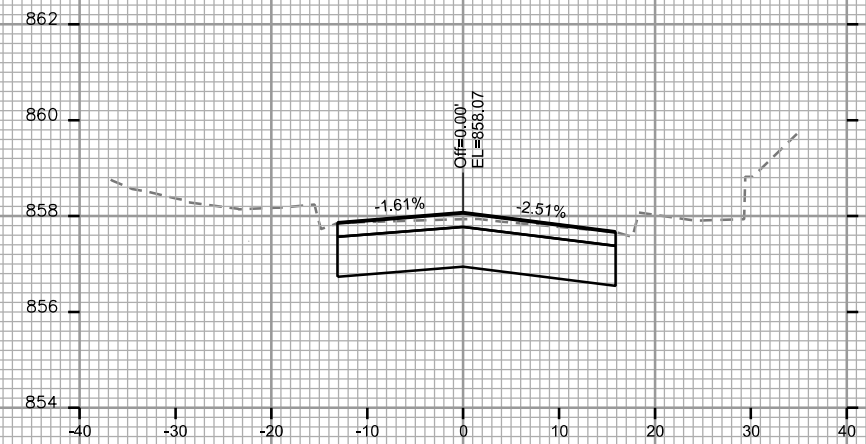
STA. 61+50



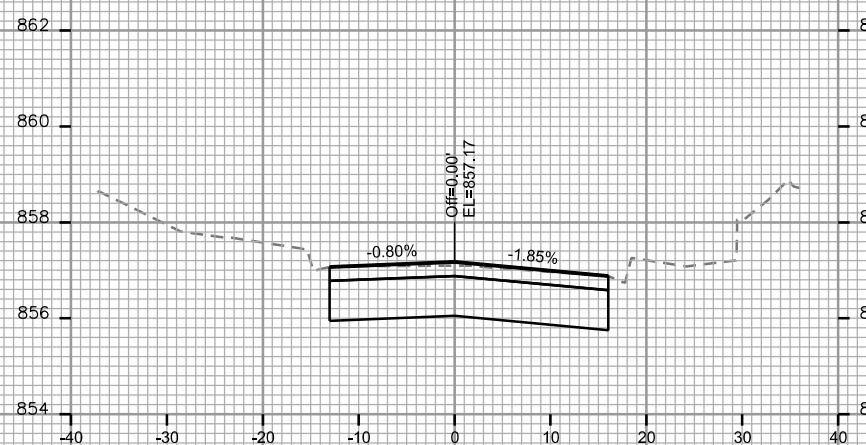
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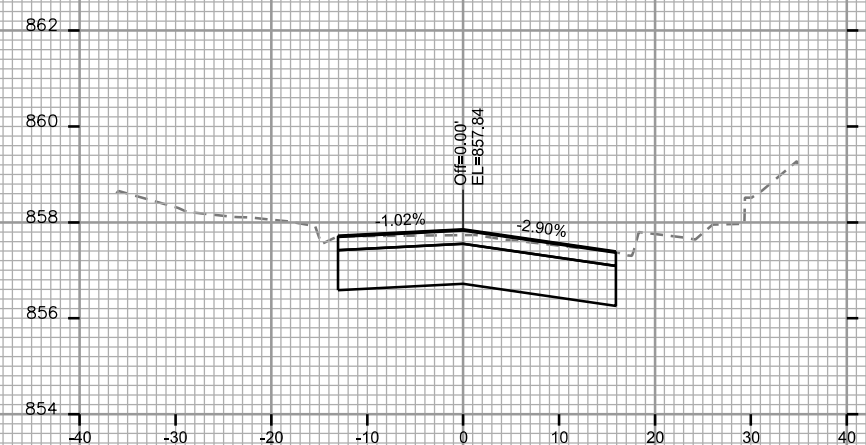
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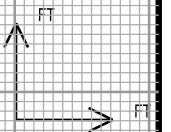
STA. 62+00



STA. 61+00



STA. 61+75



CROSS SECTIONS

JOHNS STREET

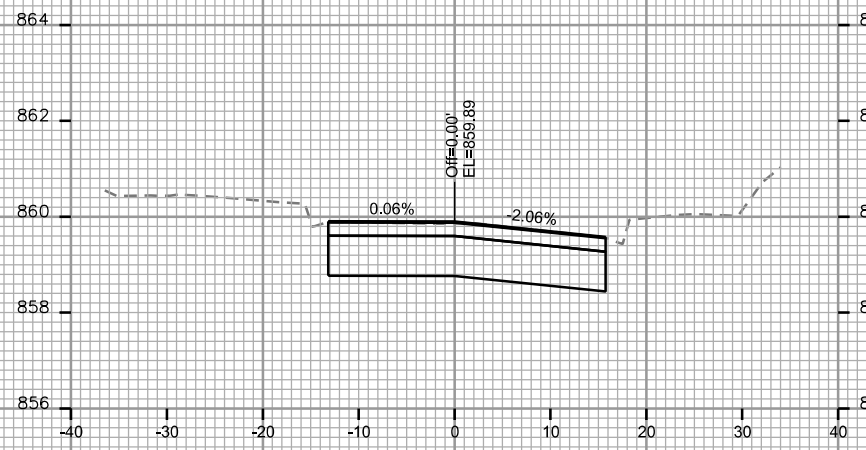
CITY OF MADISON

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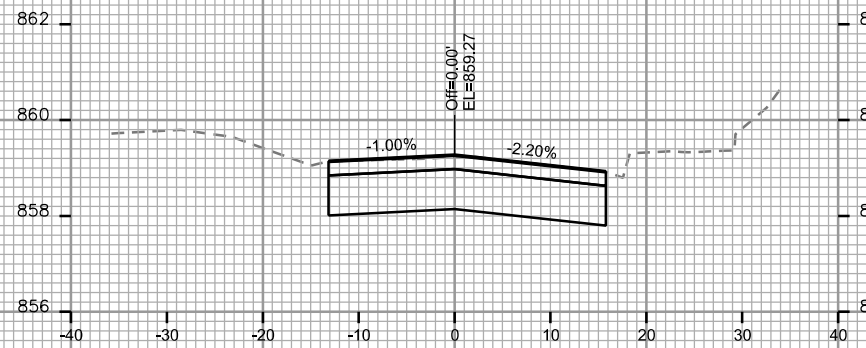
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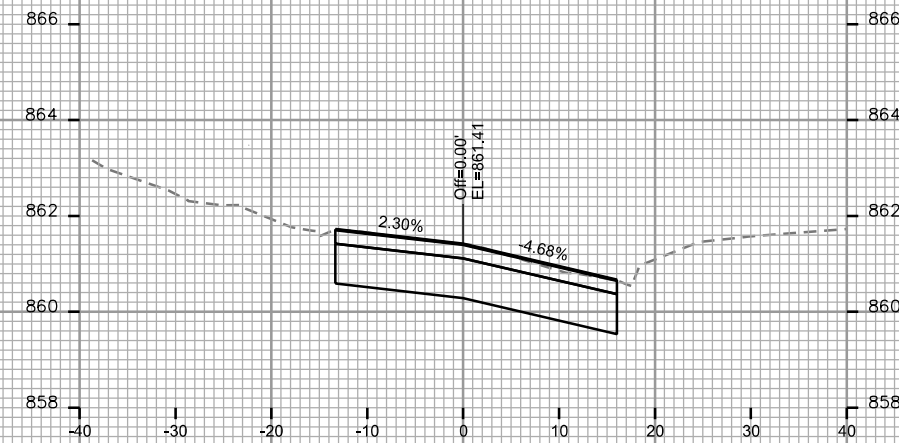
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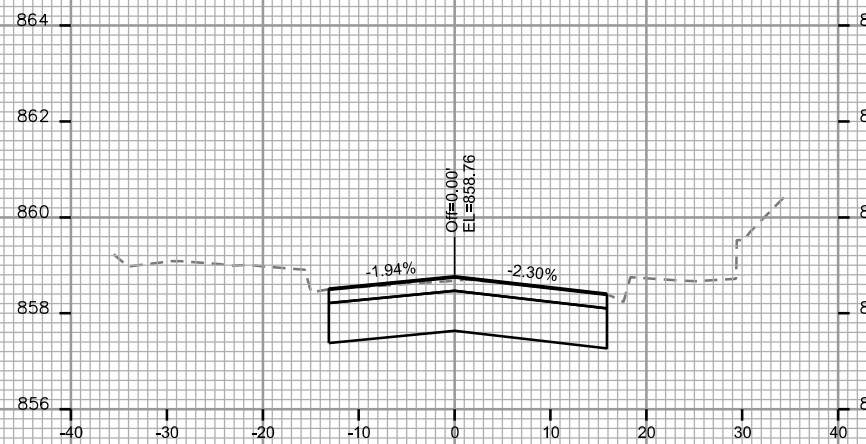
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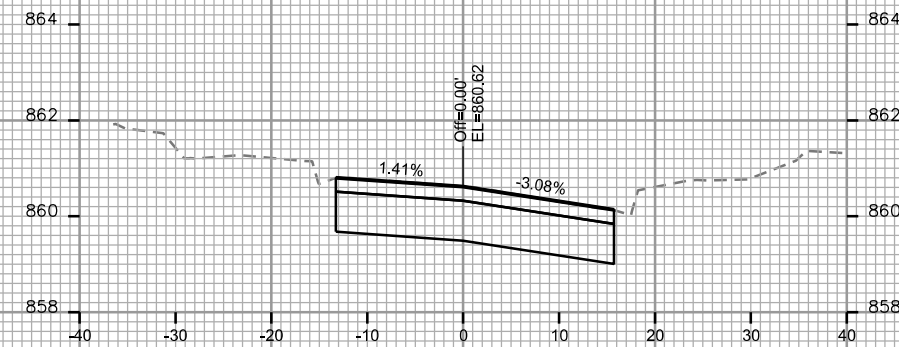
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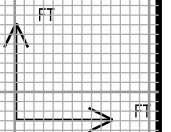
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STA. 62+50



STA. 63+25



CROSS SECTIONS

EMIL STREET

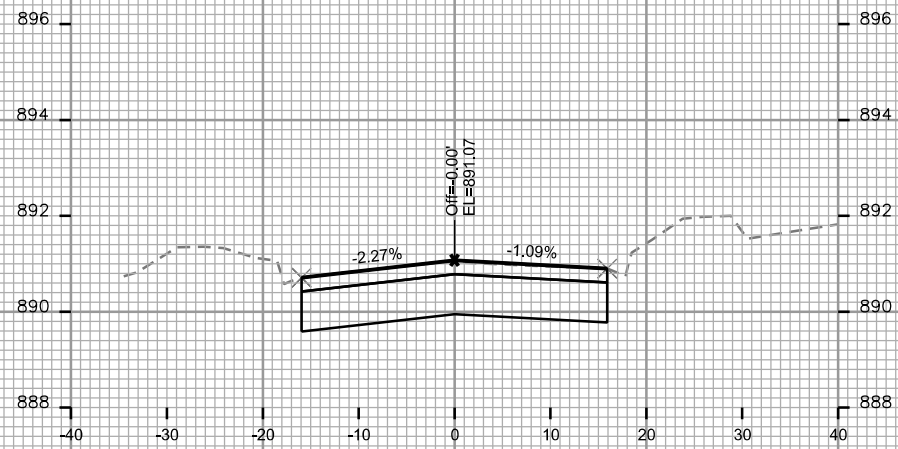
CITY OF MADISON

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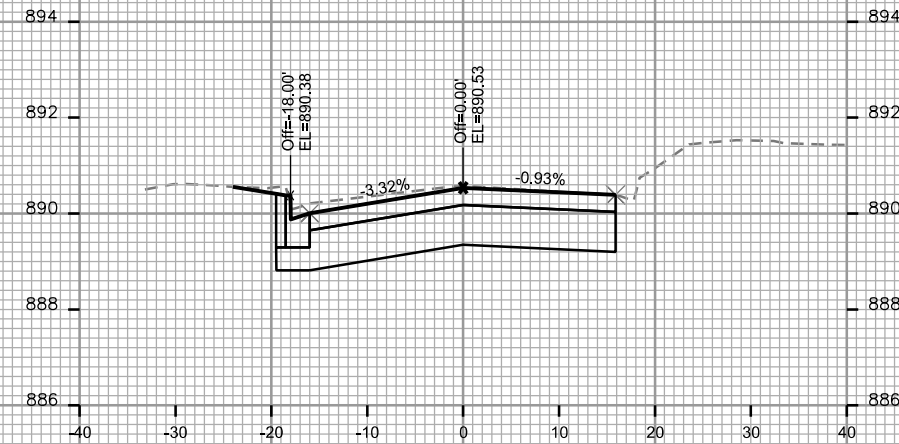
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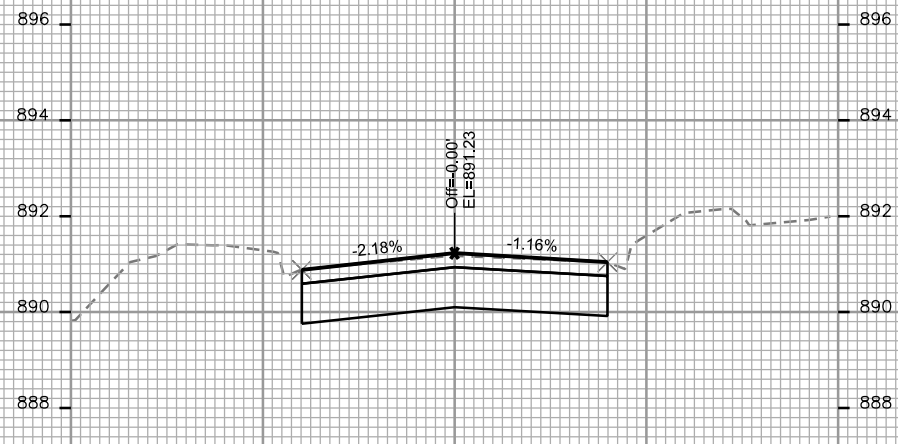
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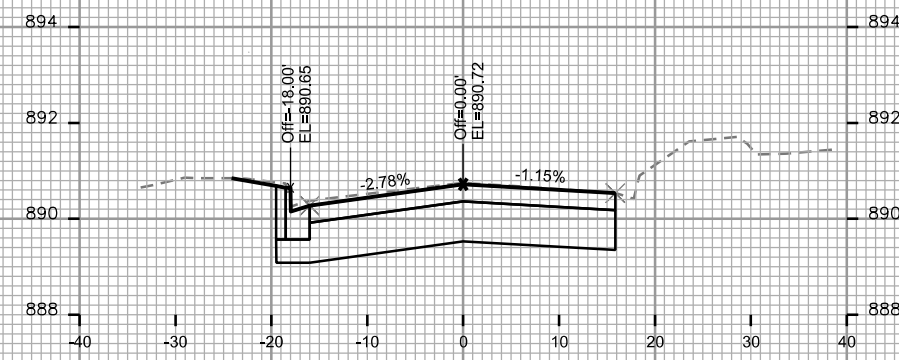
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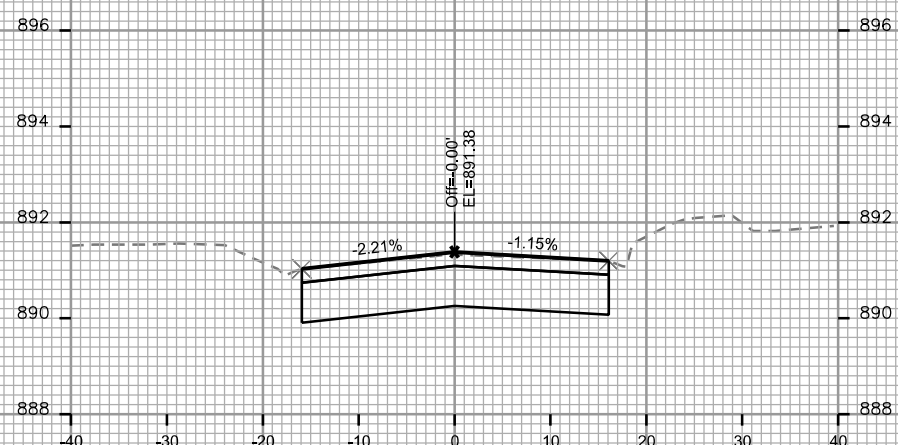
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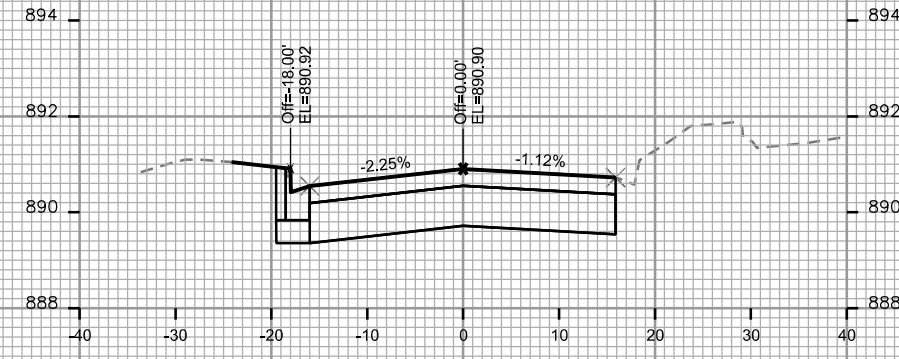
STA. 11+25



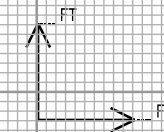
STA. 12+00



STA. 11+00



STA. 11+75



CROSS SECTIONS

EMIL STREET

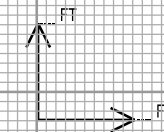
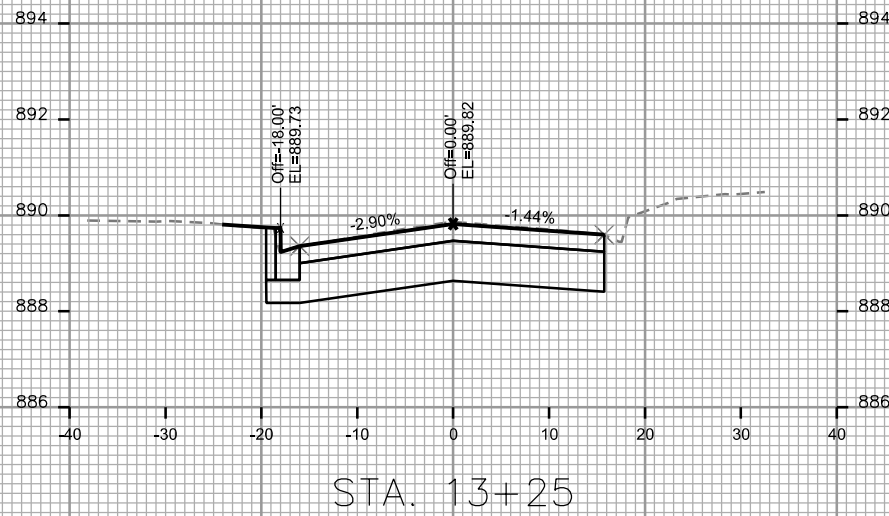
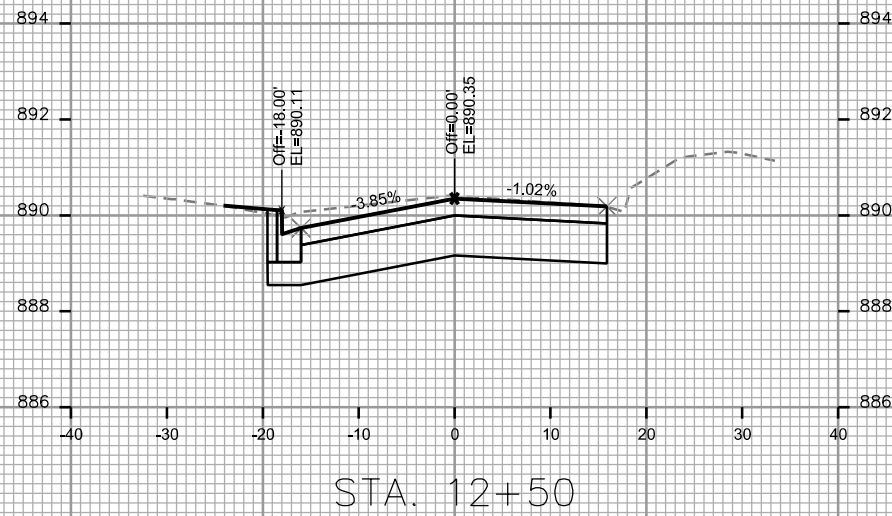
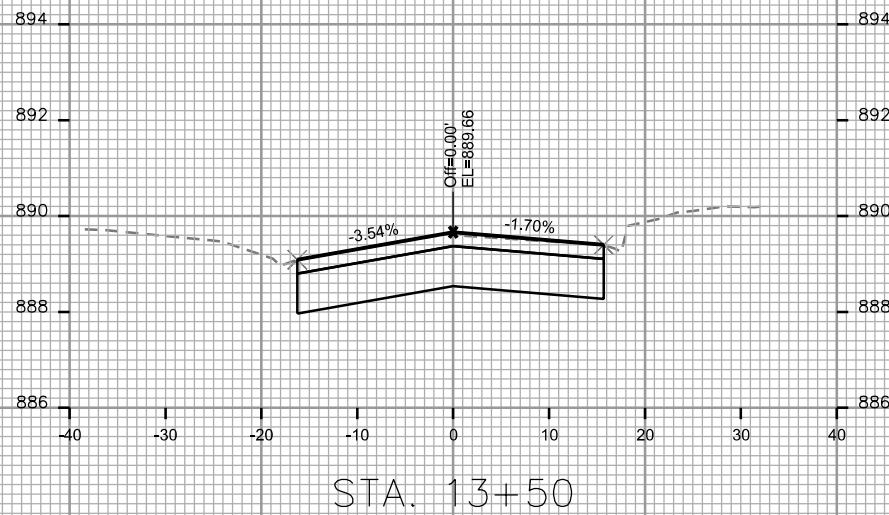
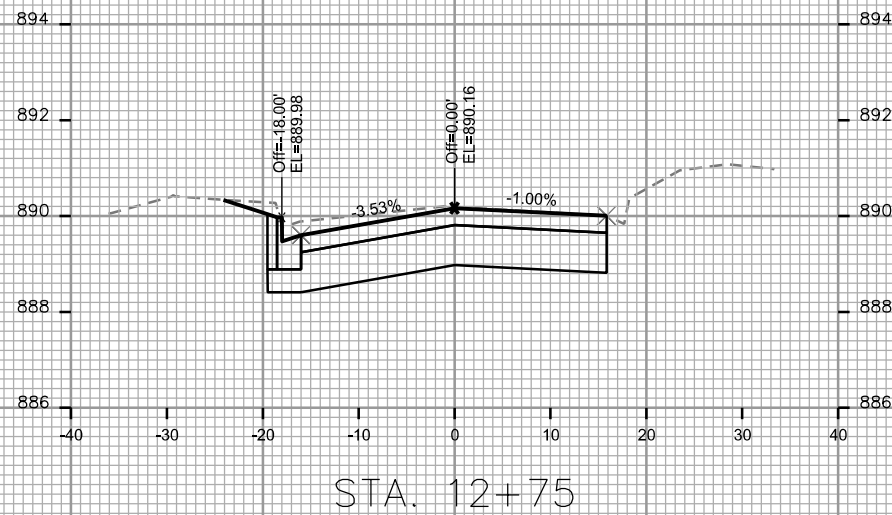
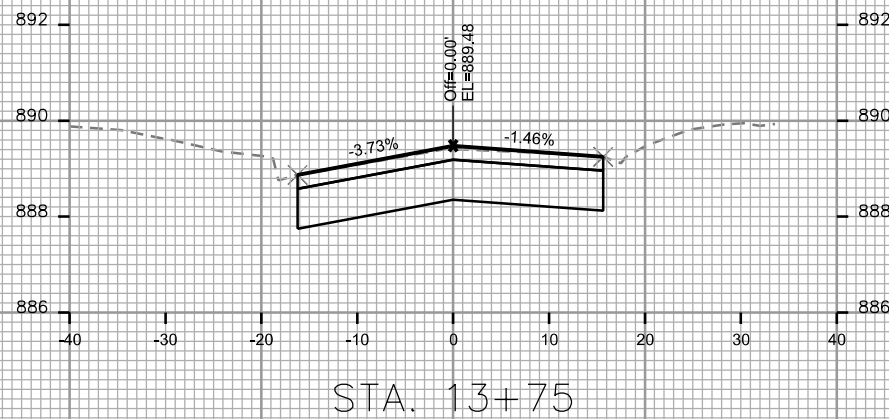
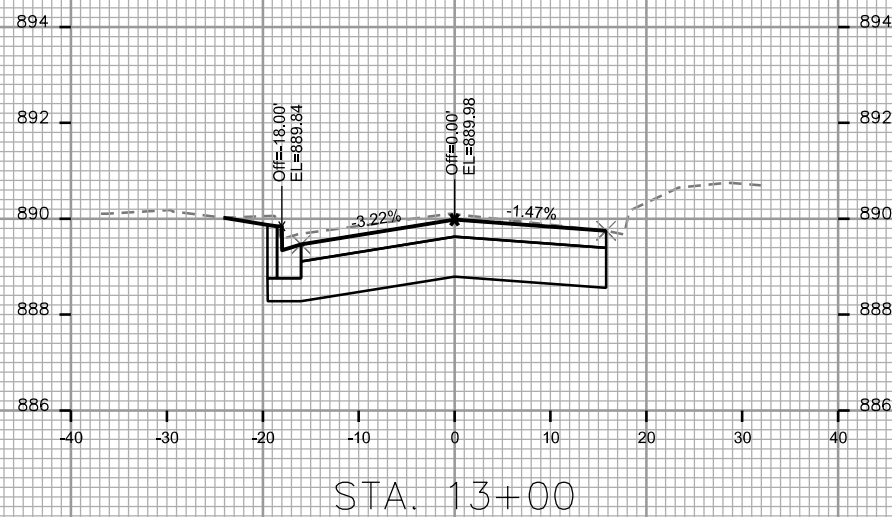
CITY OF MADISON

PLOT SCALE: _____

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CROSS SECTIONS

EMIL STREET

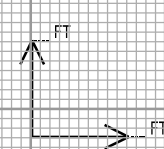
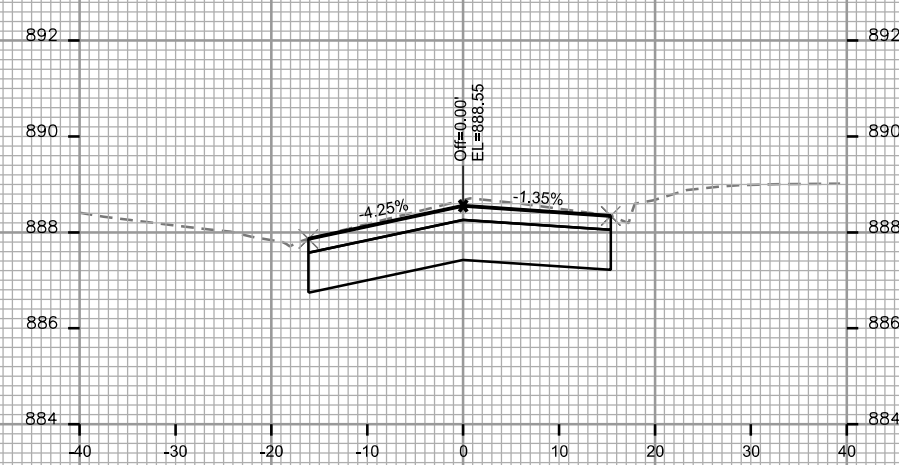
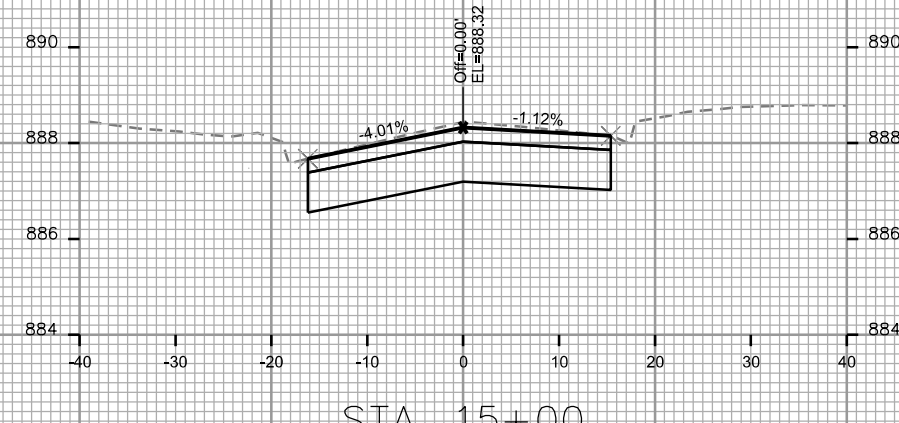
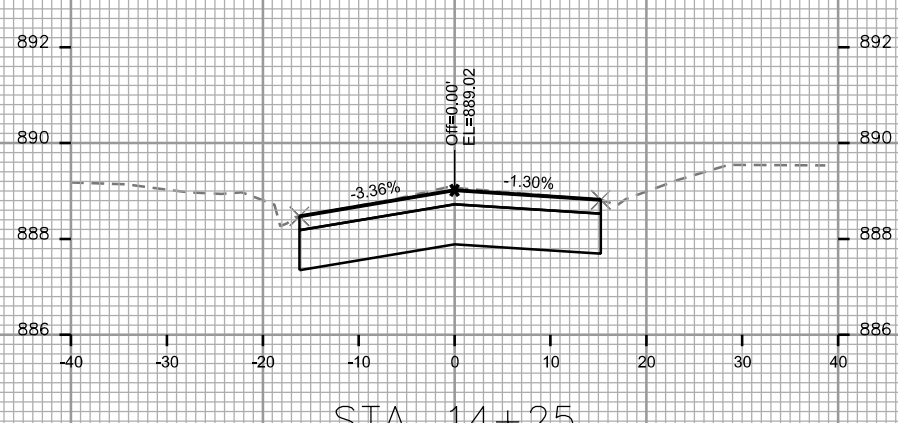
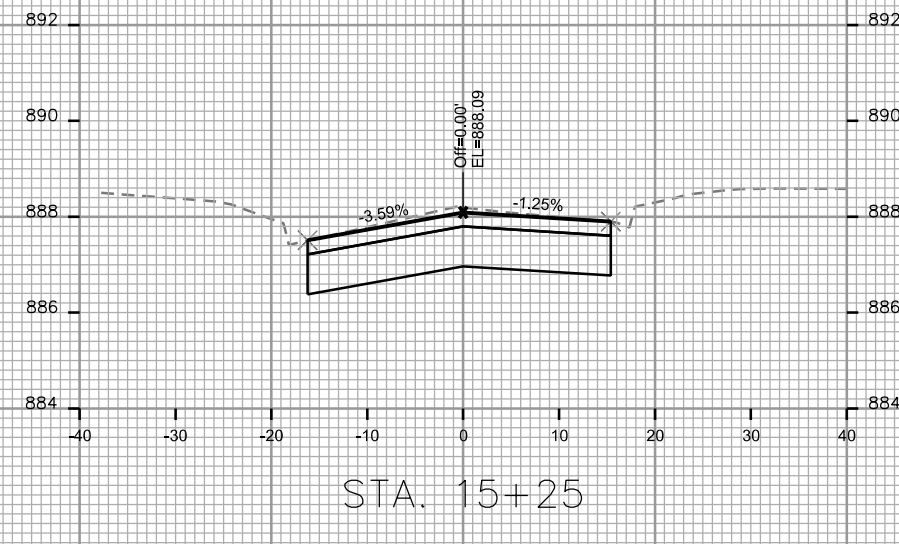
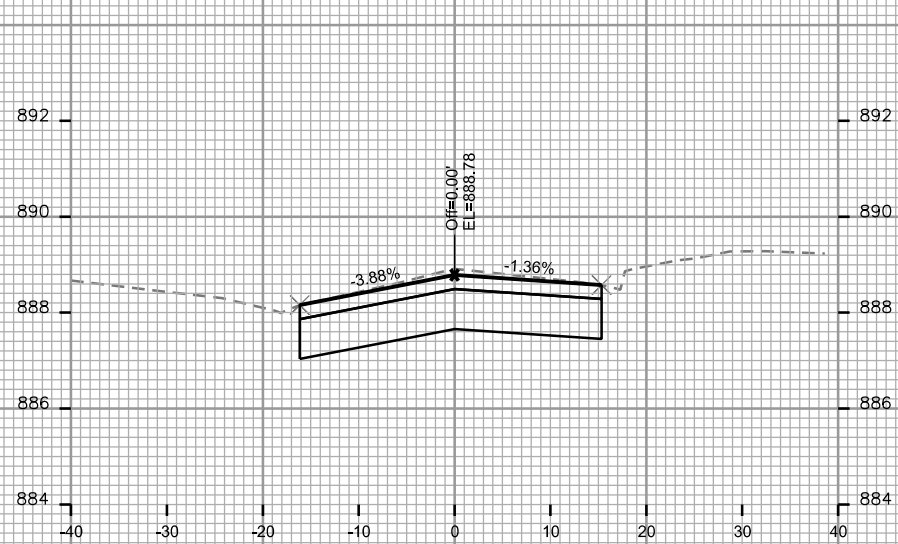
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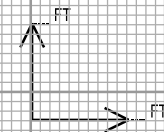
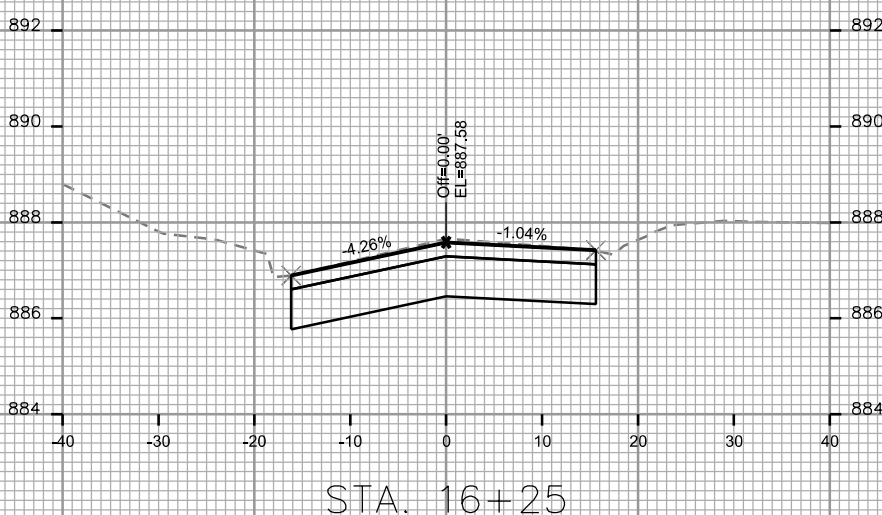
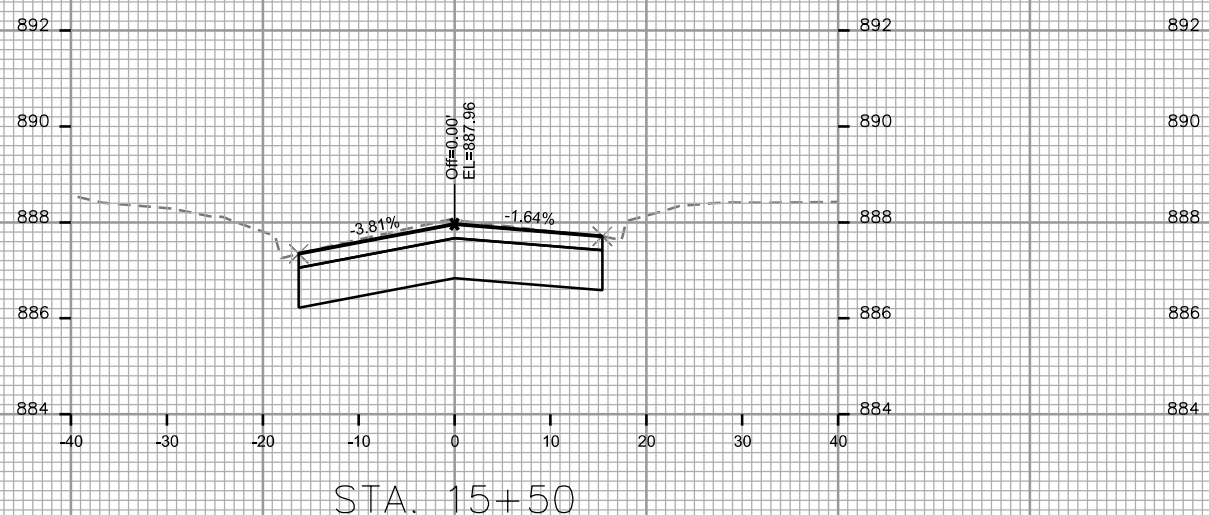
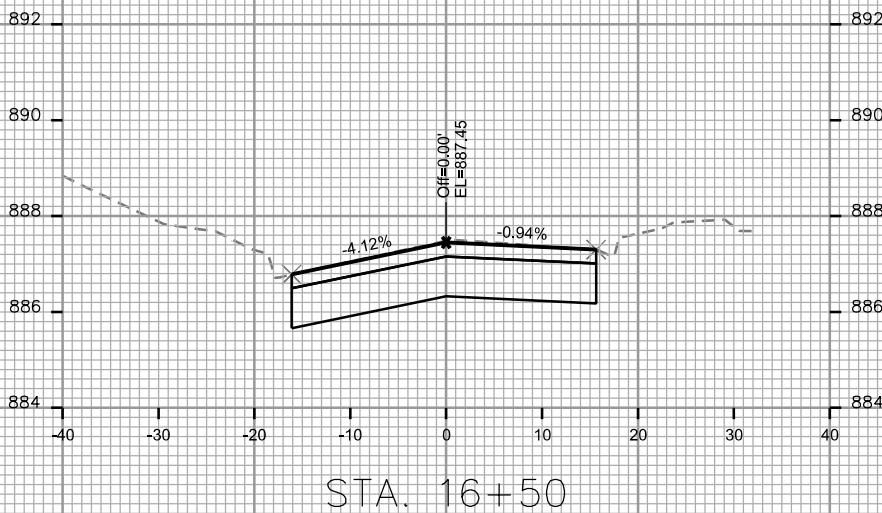
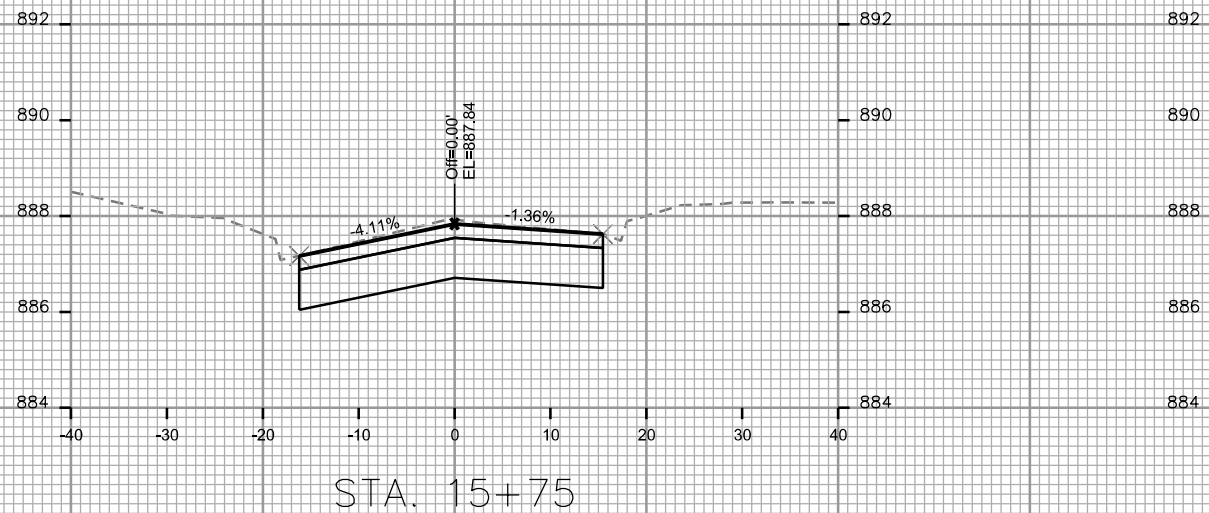
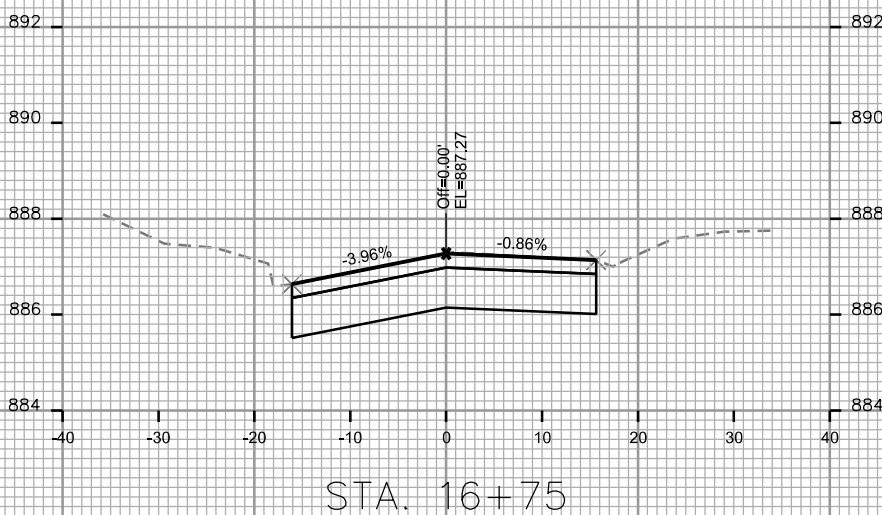
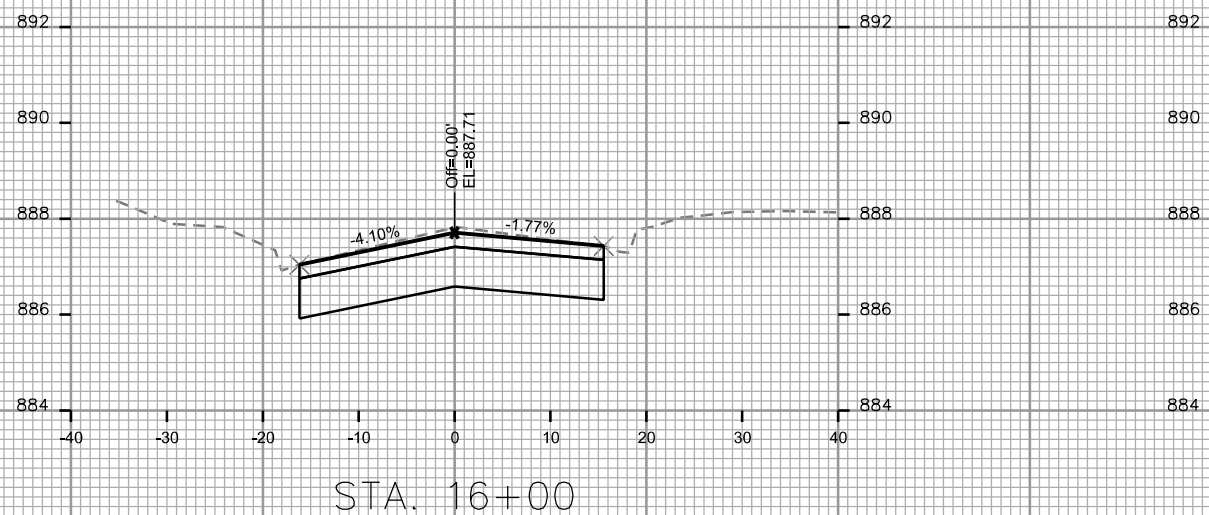
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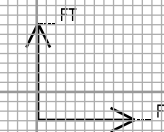
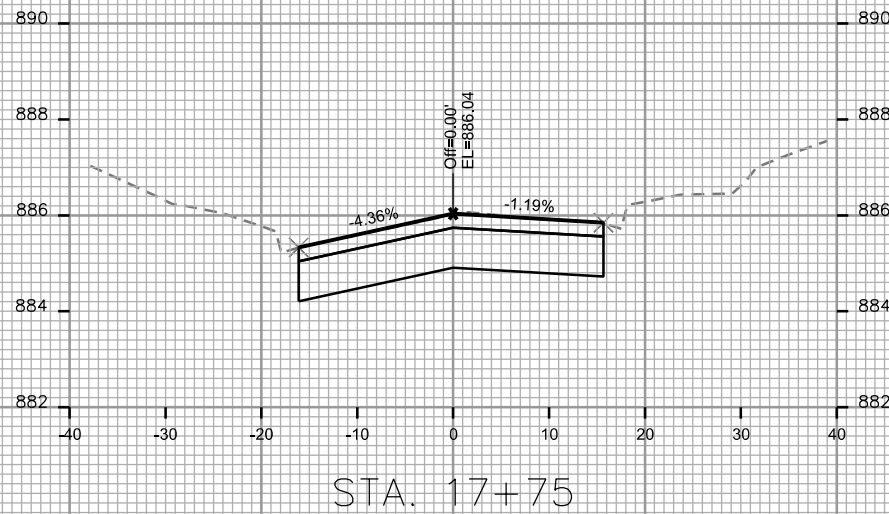
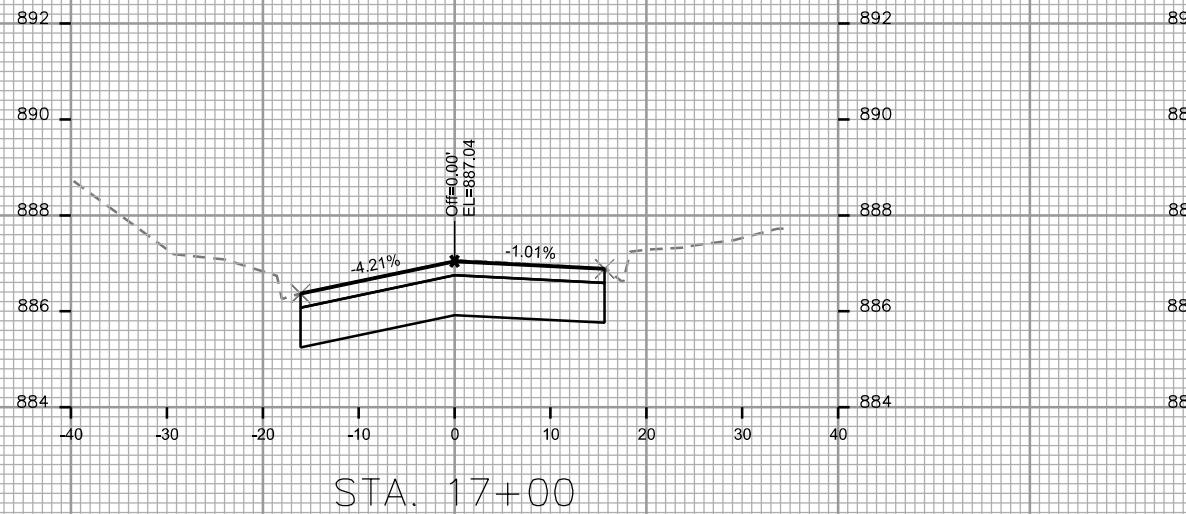
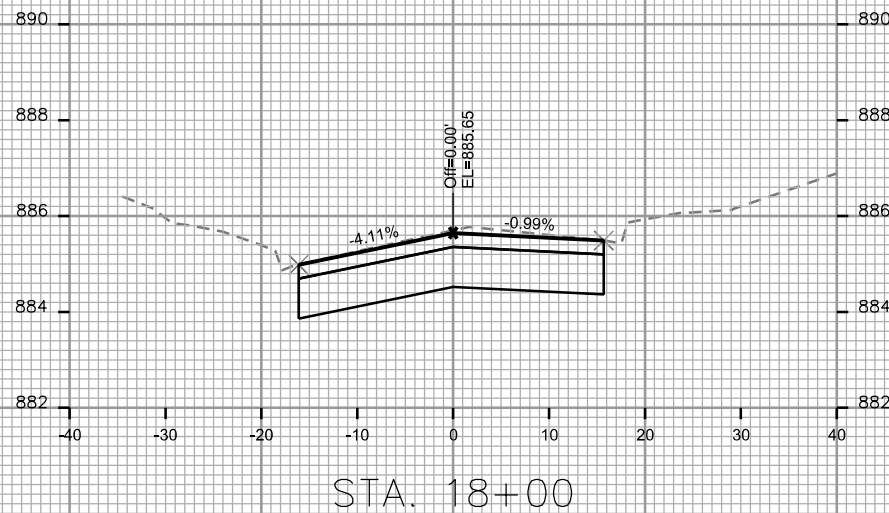
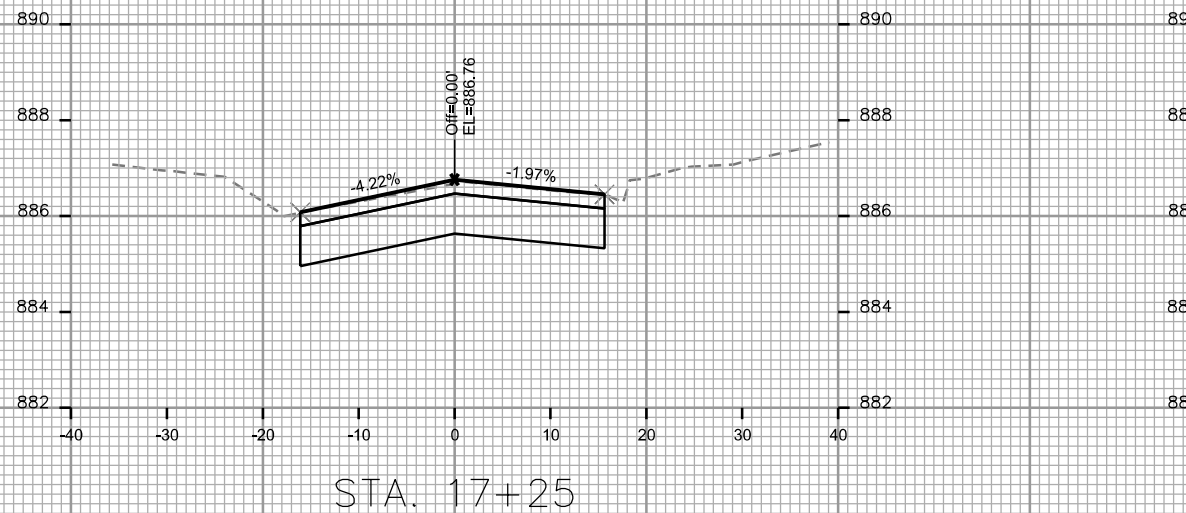
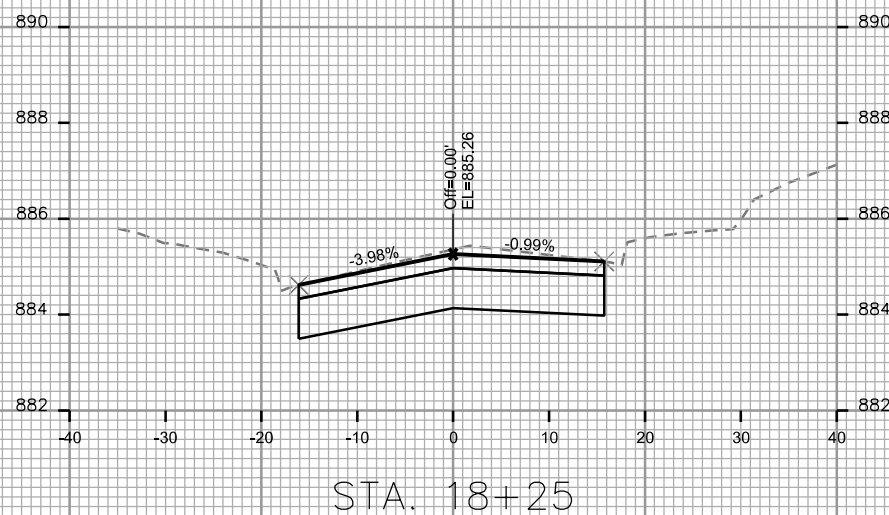
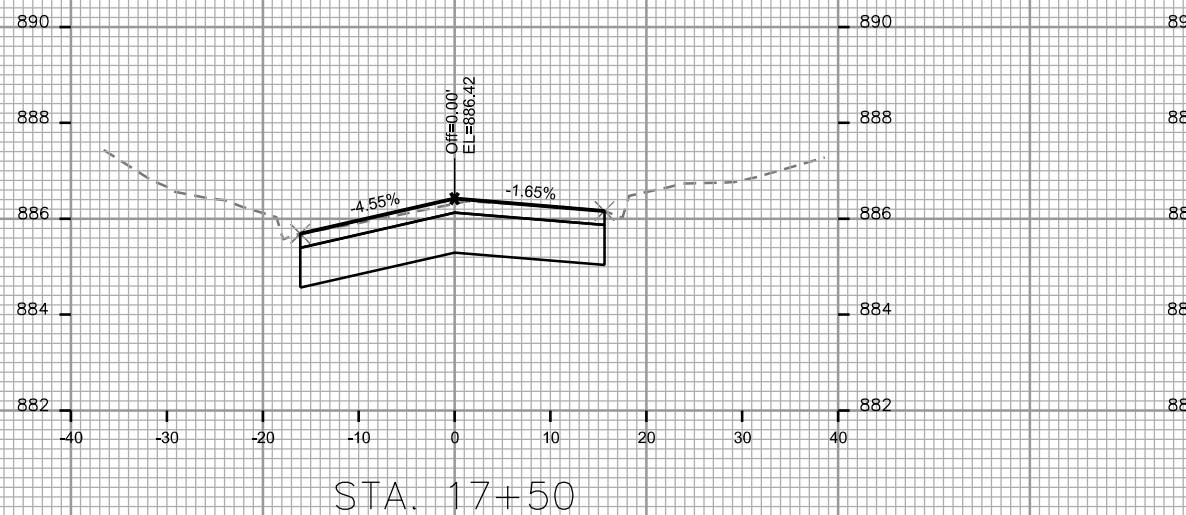
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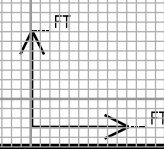
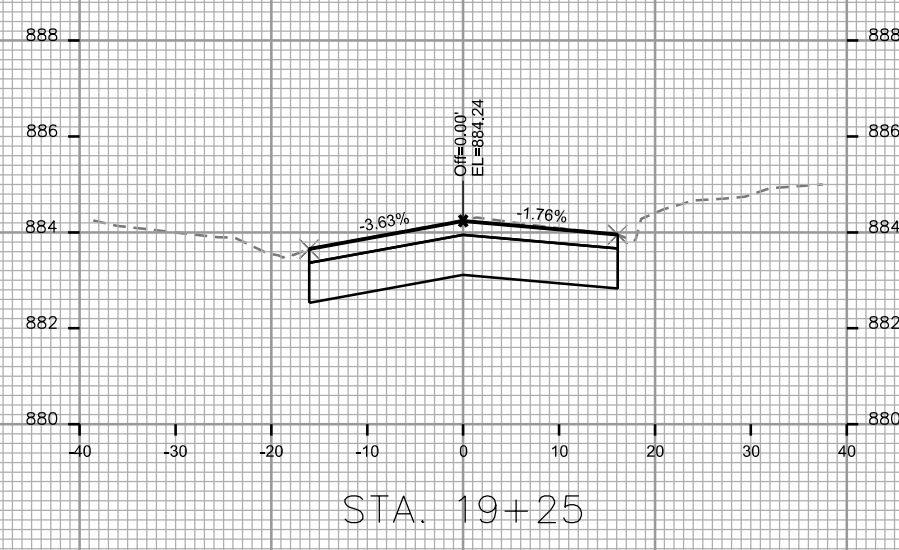
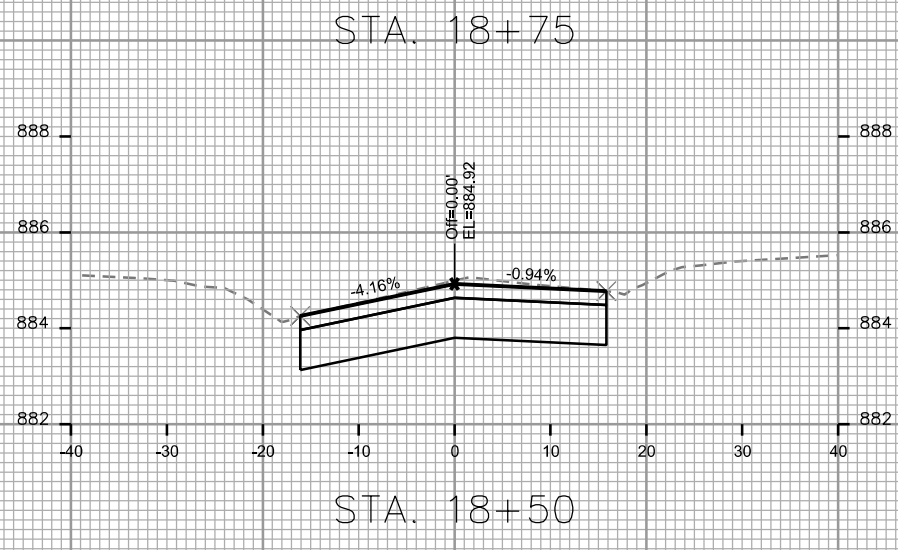
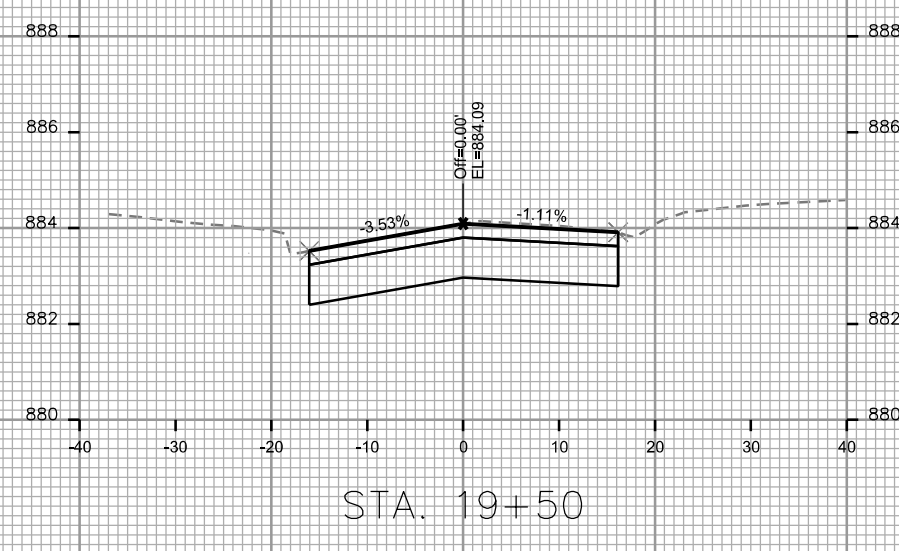
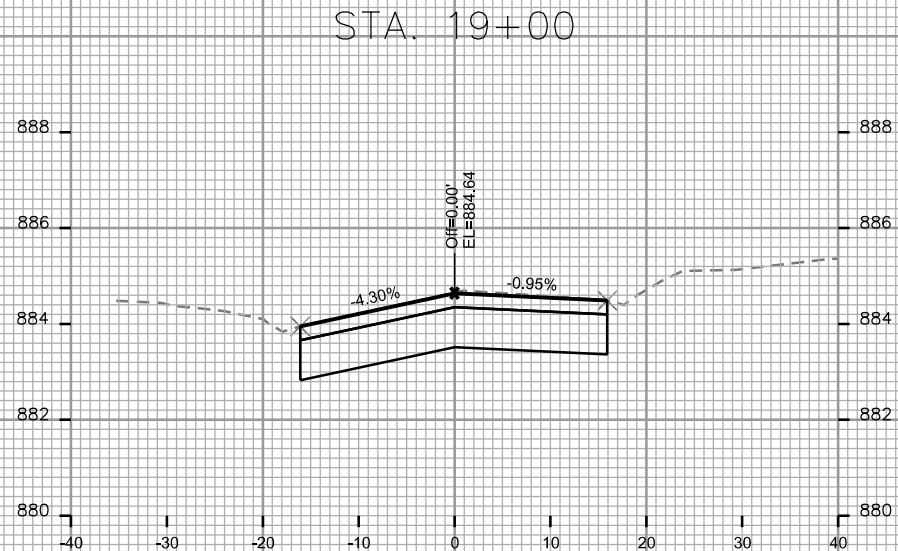
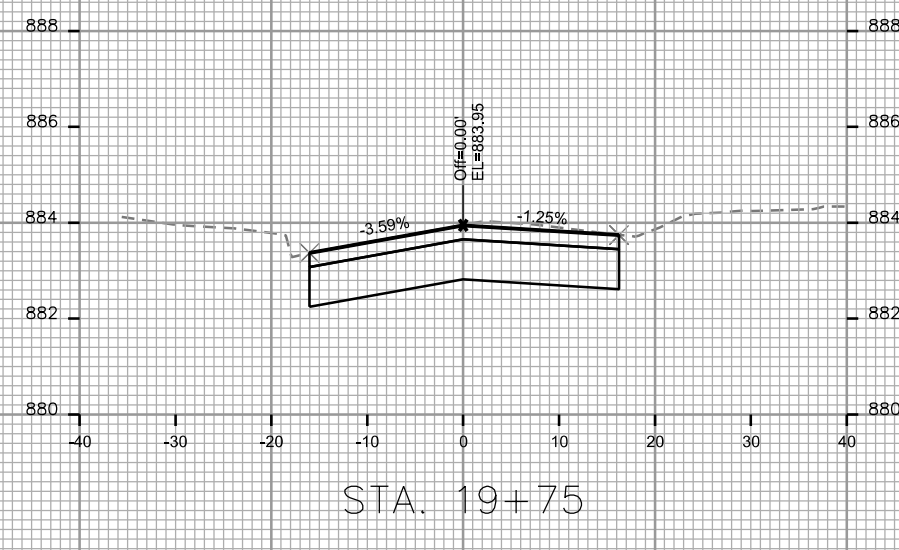
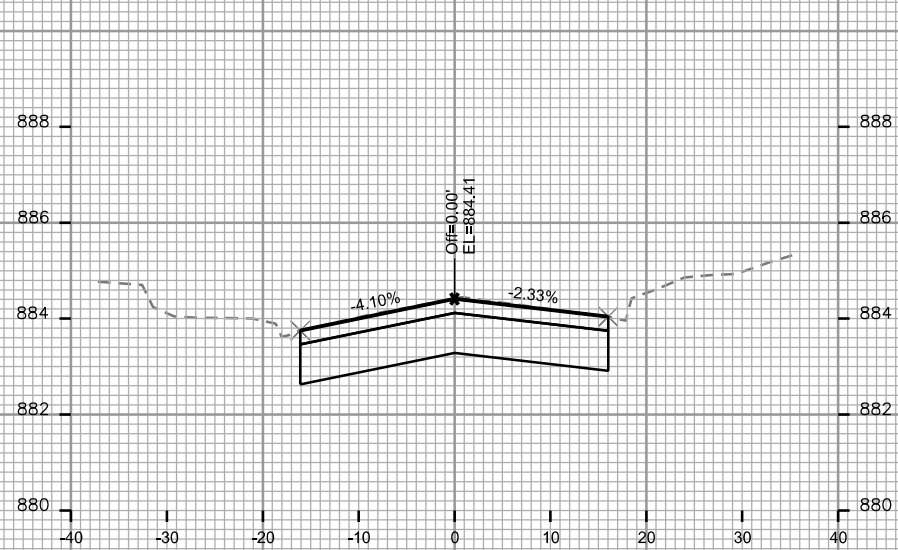
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