

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

JUNE 3, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*Christy Be...* 6-6-14  
City Engineer Date

INDEX OF SHEETS

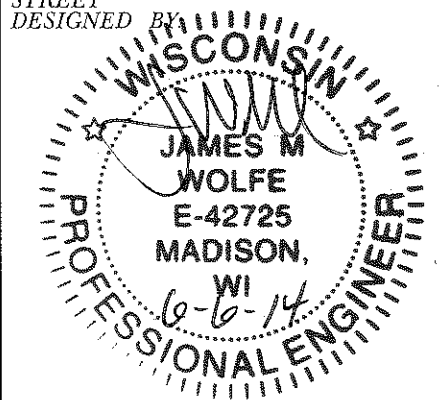
SHEET NO.	TITLE
1	
D1	DETAILS
EC1-EC3	EROSION CONTROL PLANS
P1-P2	STREET PLAN & PROFILES
U1-U3	UTILITY PLAN & PROFILES
U4-U5	SEWER SCHEDULES
W1-W3	WATER PLAN & PROFILES
W4	WATER IMPACT PLAN
W5A-W5B	WATER LATERAL DETAILS
W6	WATER ESTIMATE OF MATERIALS
X1-X3	CROSS SECTIONS

## BITTERSWEET PLACE ASSESSMENT DISTRICT - 2014

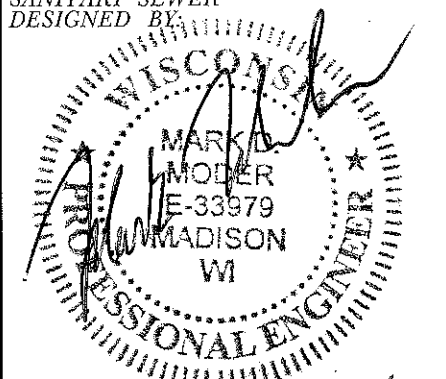
CITY PROJECT NO. 53W1775

CITY CONTRACT NO. ~~5304~~ 7356

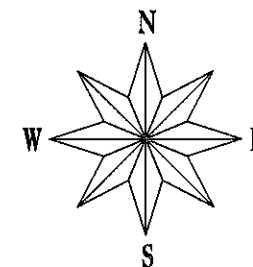
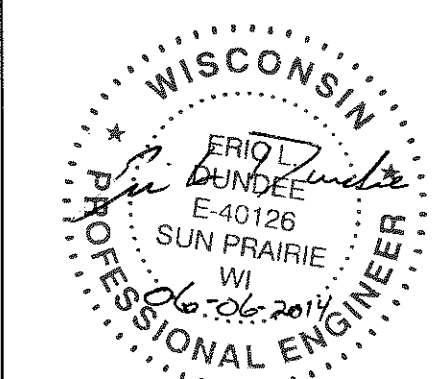
STREET DESIGNED BY:



SANITARY SEWER DESIGNED BY:



STORM SEWER DESIGNED BY:



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

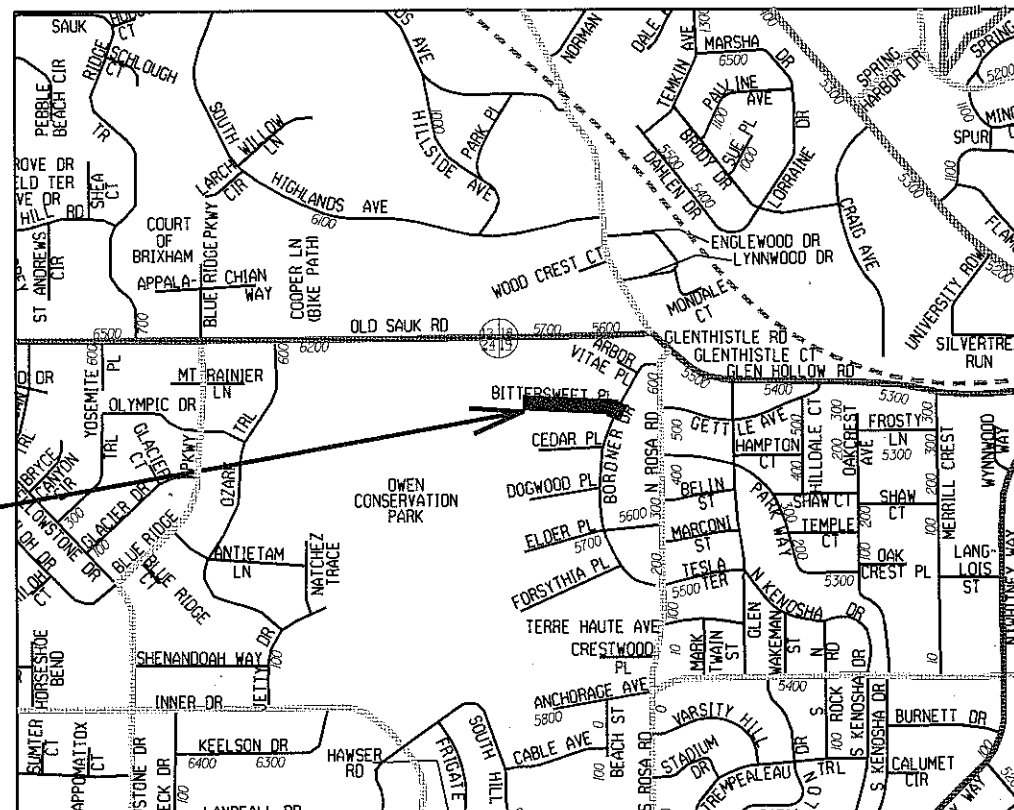
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

## CONSTRUCTION PROJECT LOCATION

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

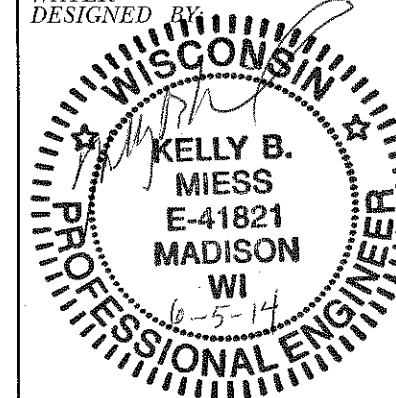
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.



EARTH WORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY).....	1,330 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....	400 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....	1,730 C.Y.

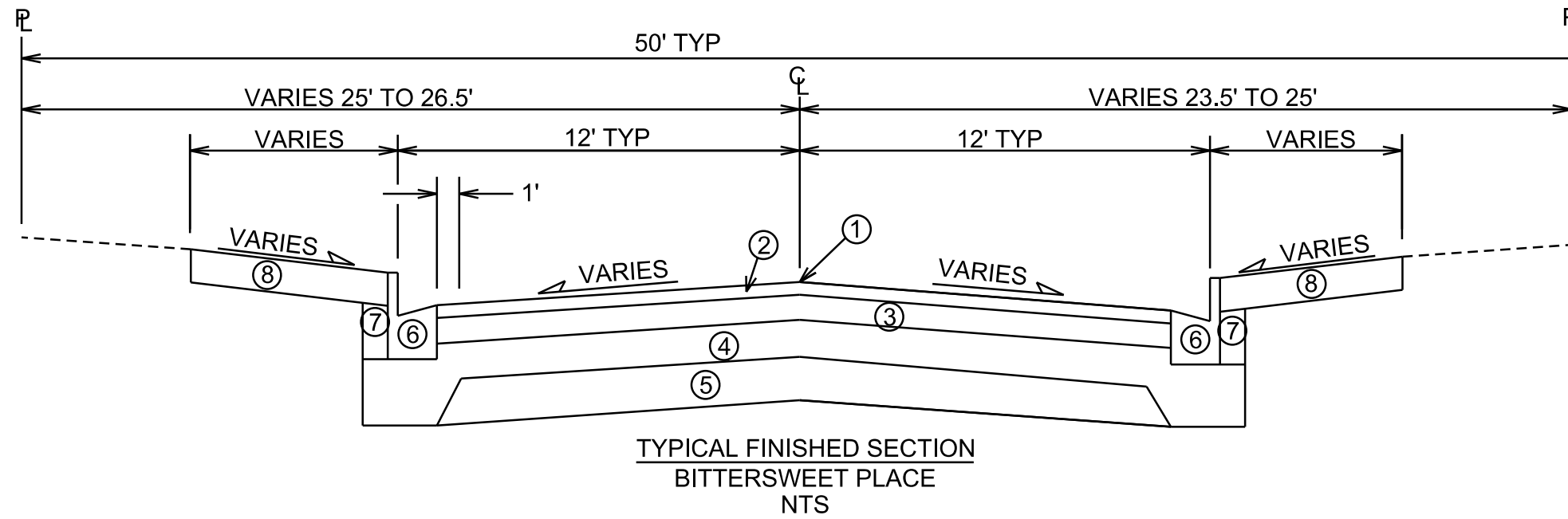
WATER DESIGNED BY:



PLOT SCALE:

REV. DATE:

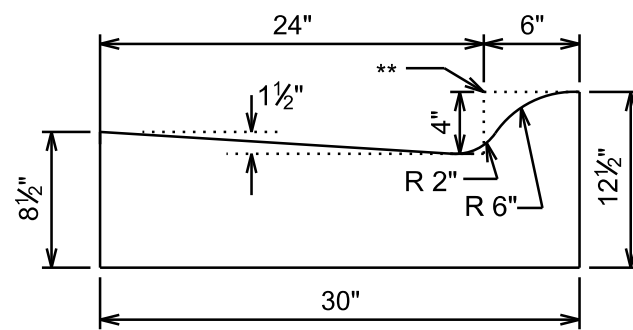
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ③ 1 3/4" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ MODIFIED TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL, SEED & EROSION MAT

\* SEE CROSS SECTION SHEETS FOR  
CROSS SLOPES AND TOP OF CURB ELEVATIONS.

TYPICAL SECTIONS NOT TO SCALE



\*\* POINT REFERRED TO ON CROSS SECTIONS AND  
POINT MEASURED TO FOR DIMENSIONS & STA/OFF

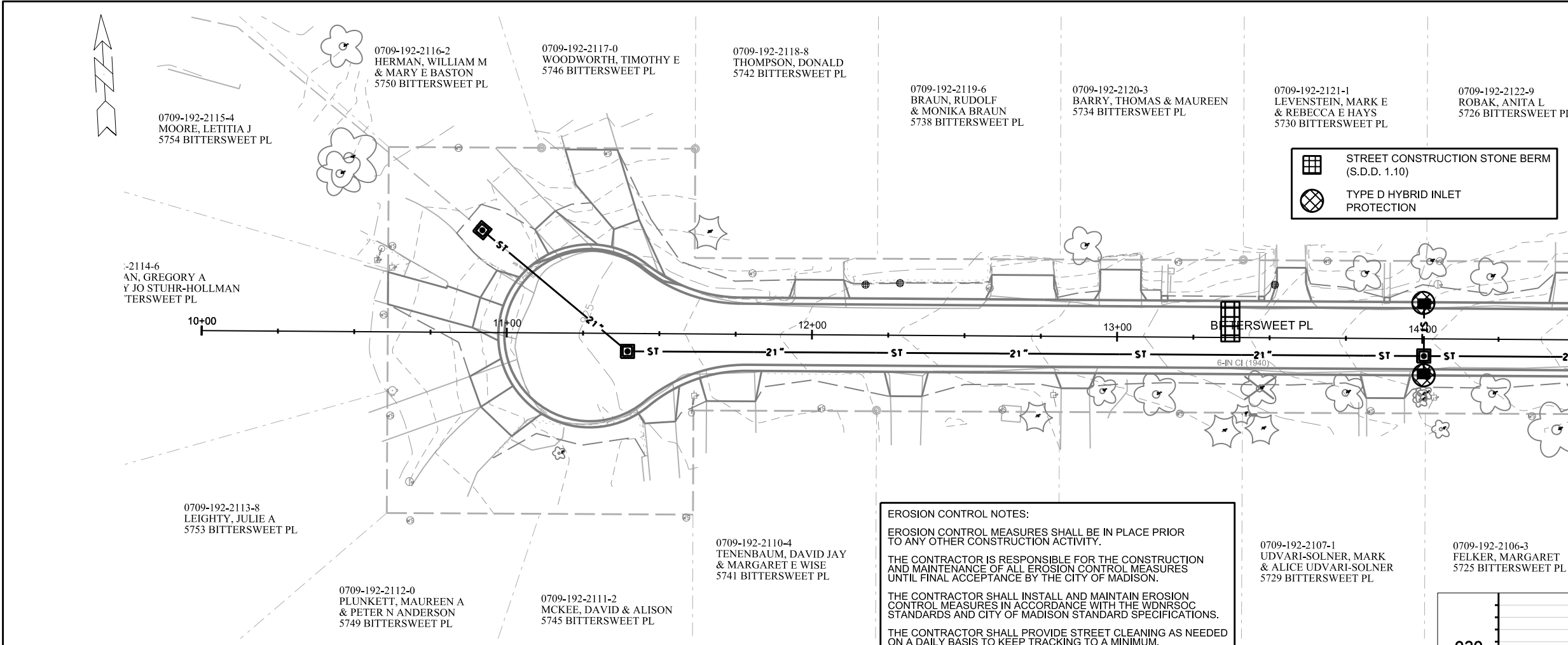
MODIFIED TYPE 'A' CURB DETAIL  
PAY AS TYPE 'A' CURB  
NTS

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

TYPE D HYBRID INLET PROTECTION

**EROSION CONTROL NOTES:**

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

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

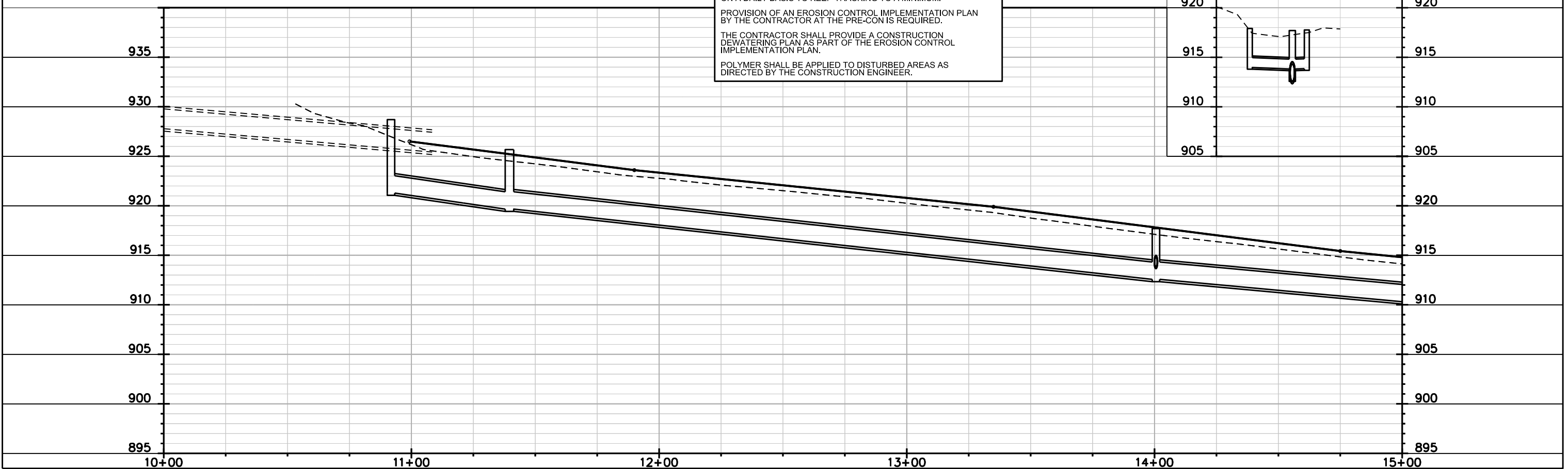
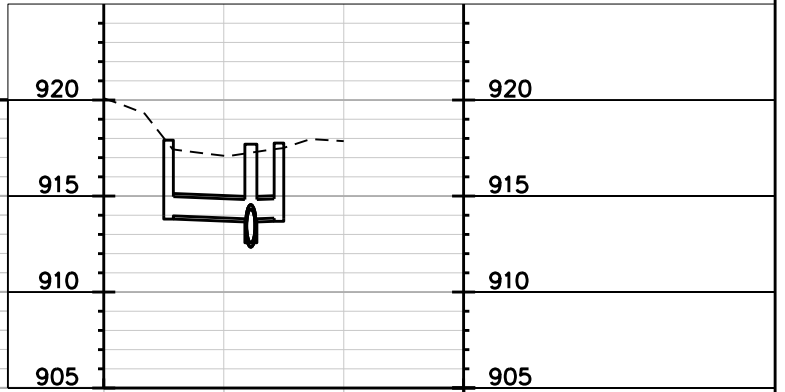
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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.

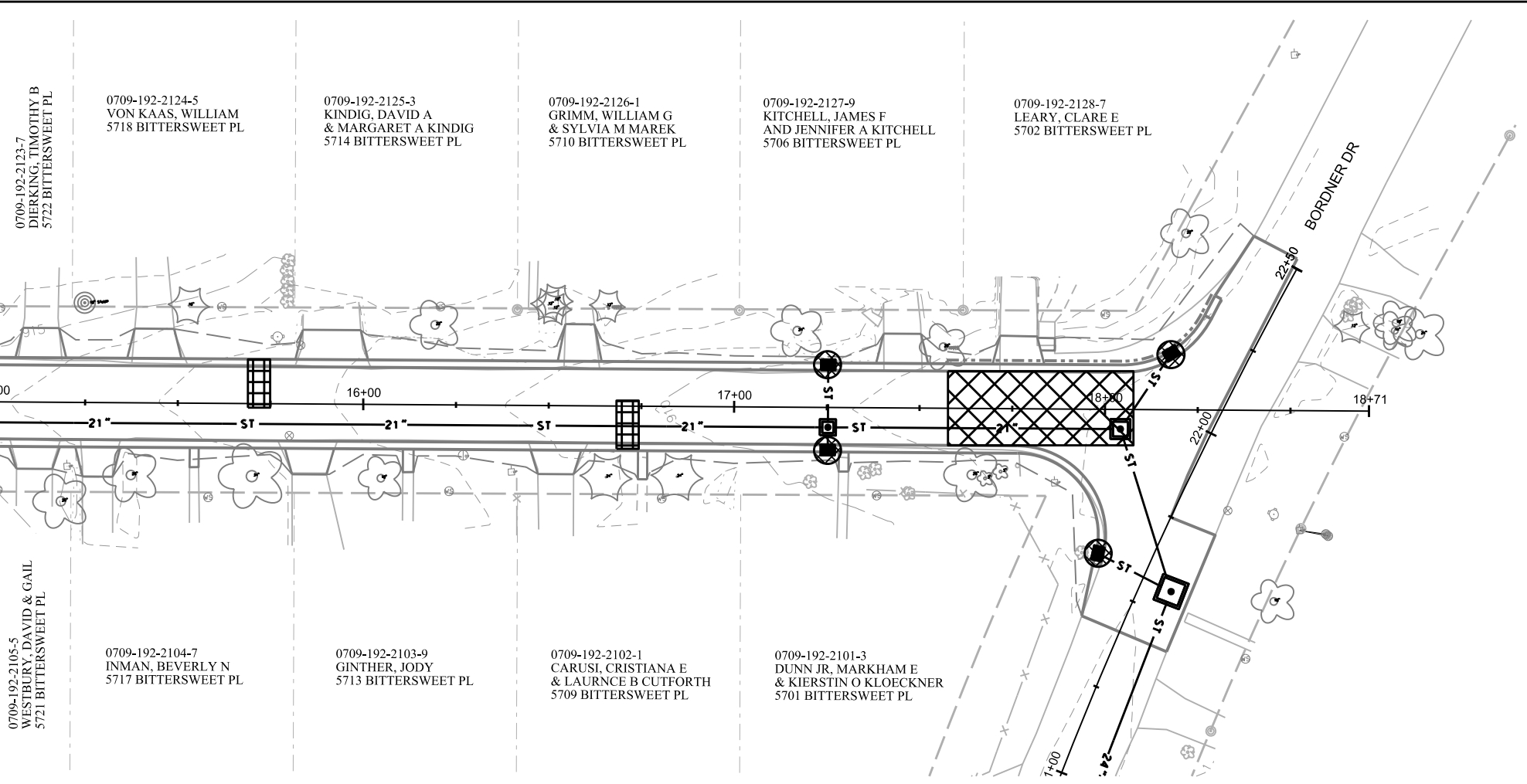


MATCHLINE STA 15+00.00

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



MATCHLINE STA 15+00.00



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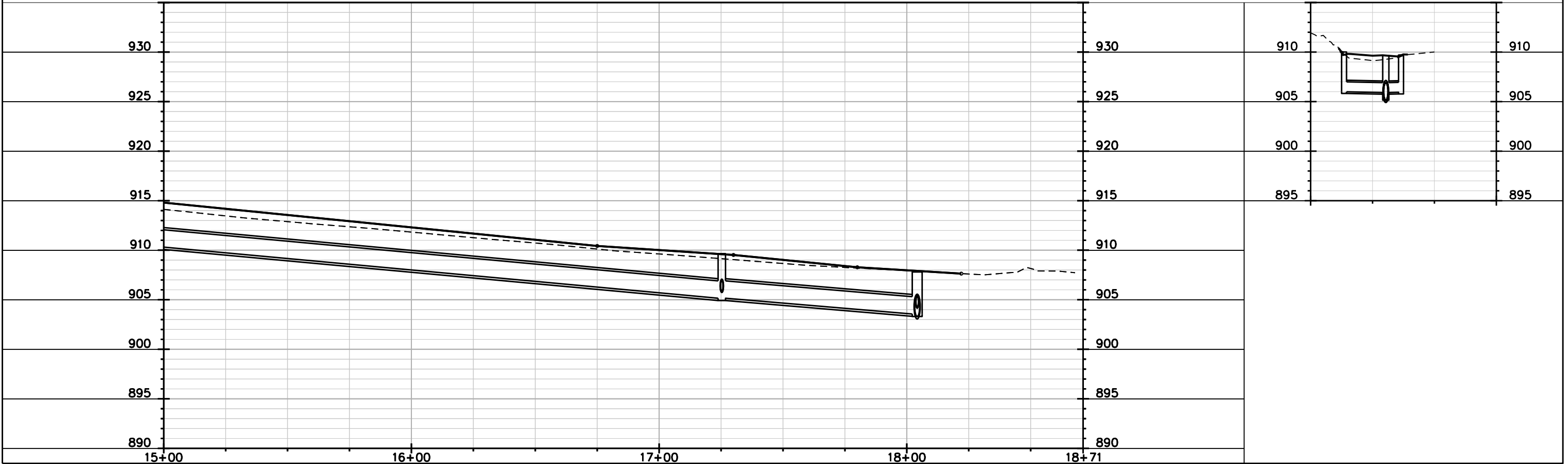
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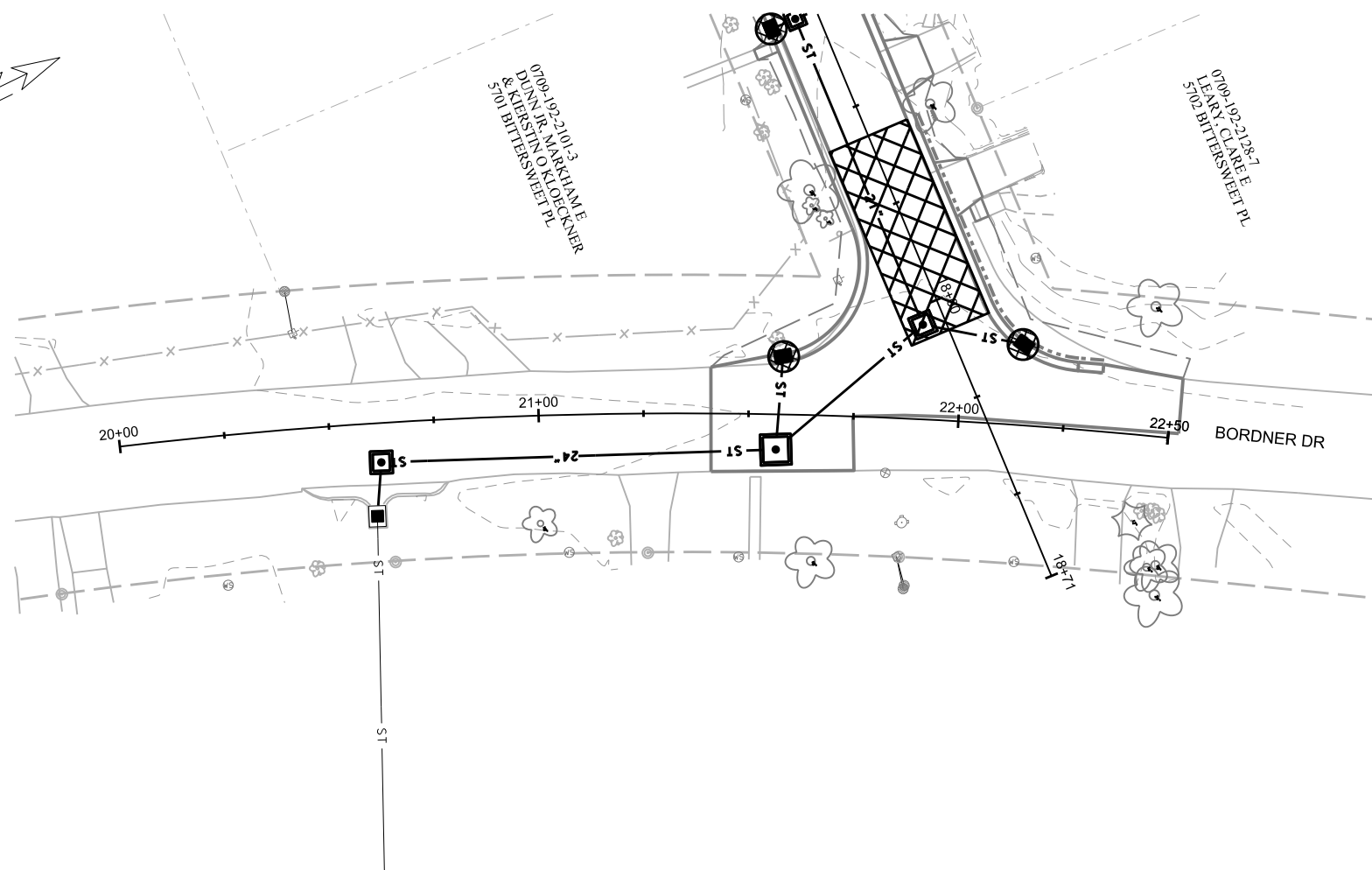
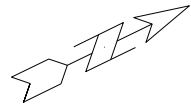
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PLOT SCALE:  
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 STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)

 TYPE D HYBRID INLET PROTECTION

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THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

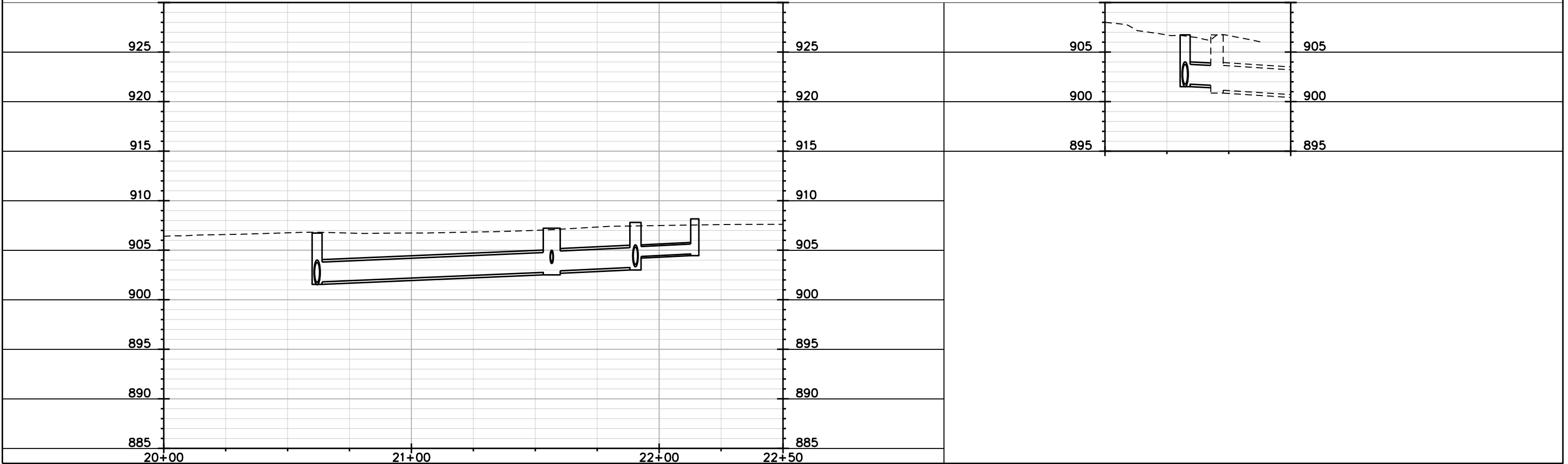
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

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.

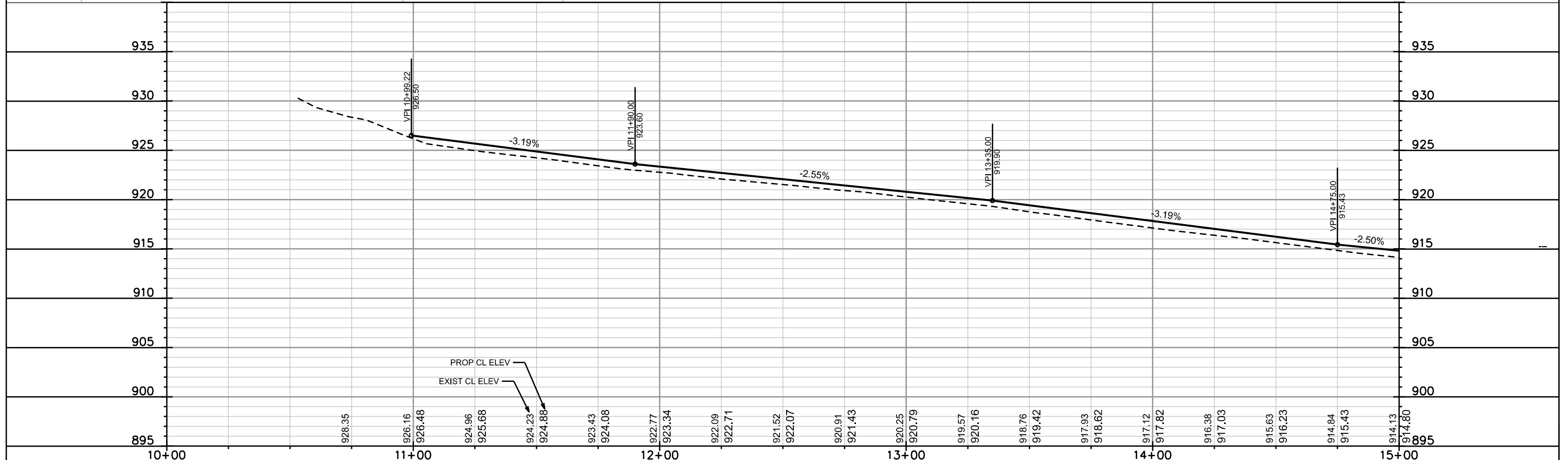
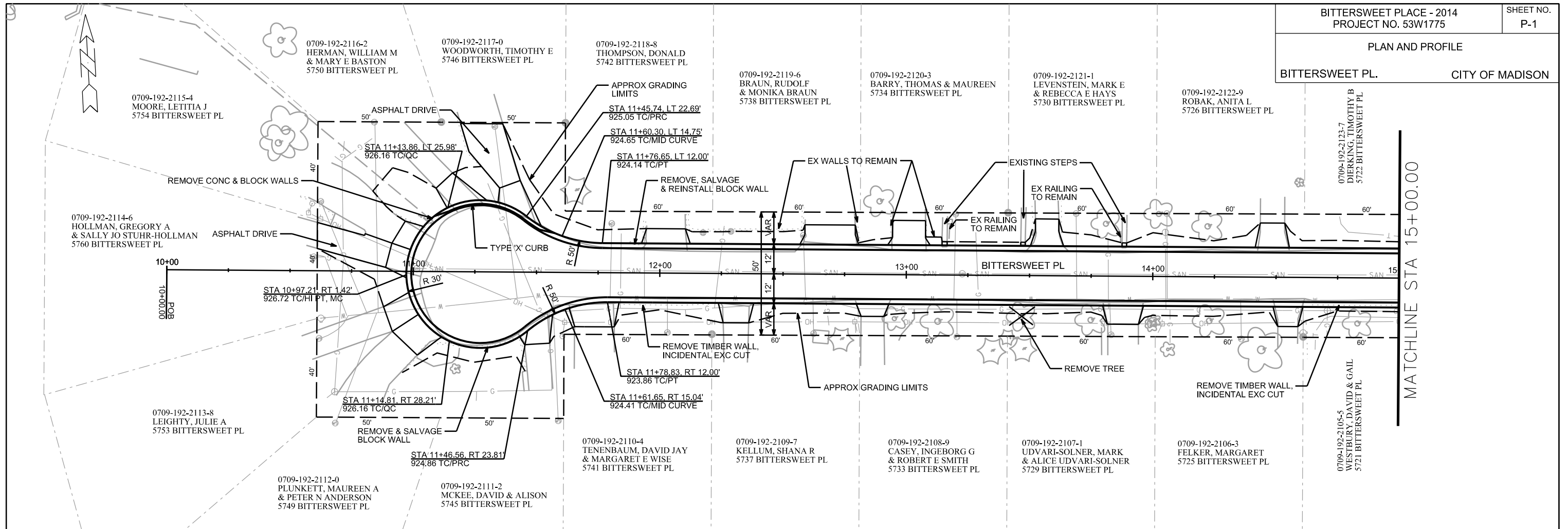
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PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLAN AND PROFILE

BITTERSWEET PL. CITY OF MADISON



PLOT SCALE: \_\_\_\_\_

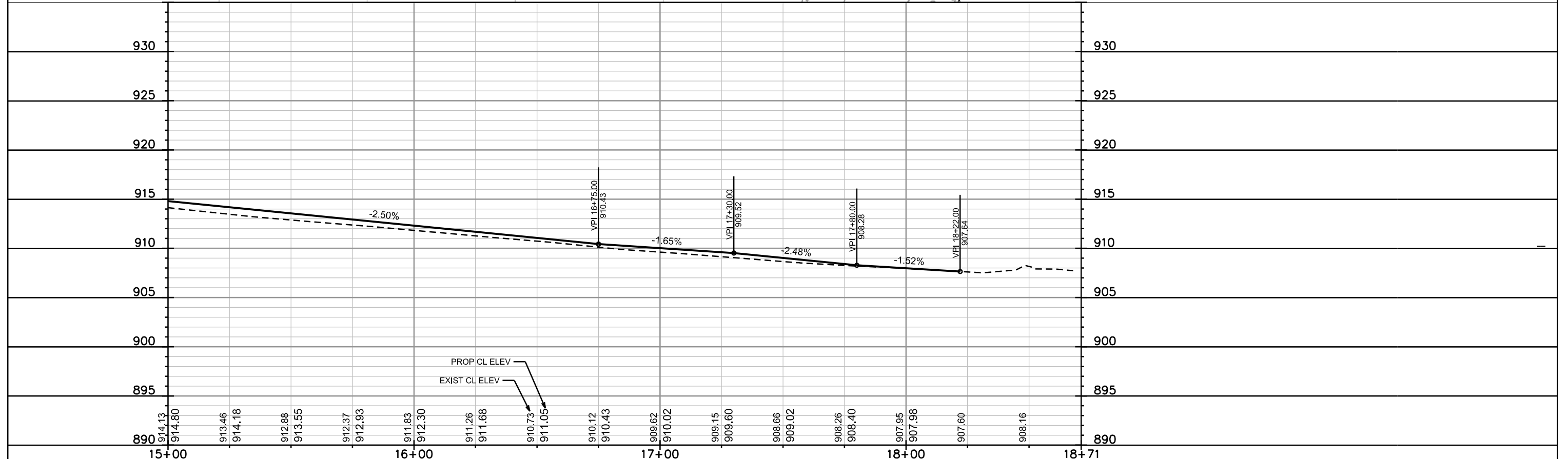
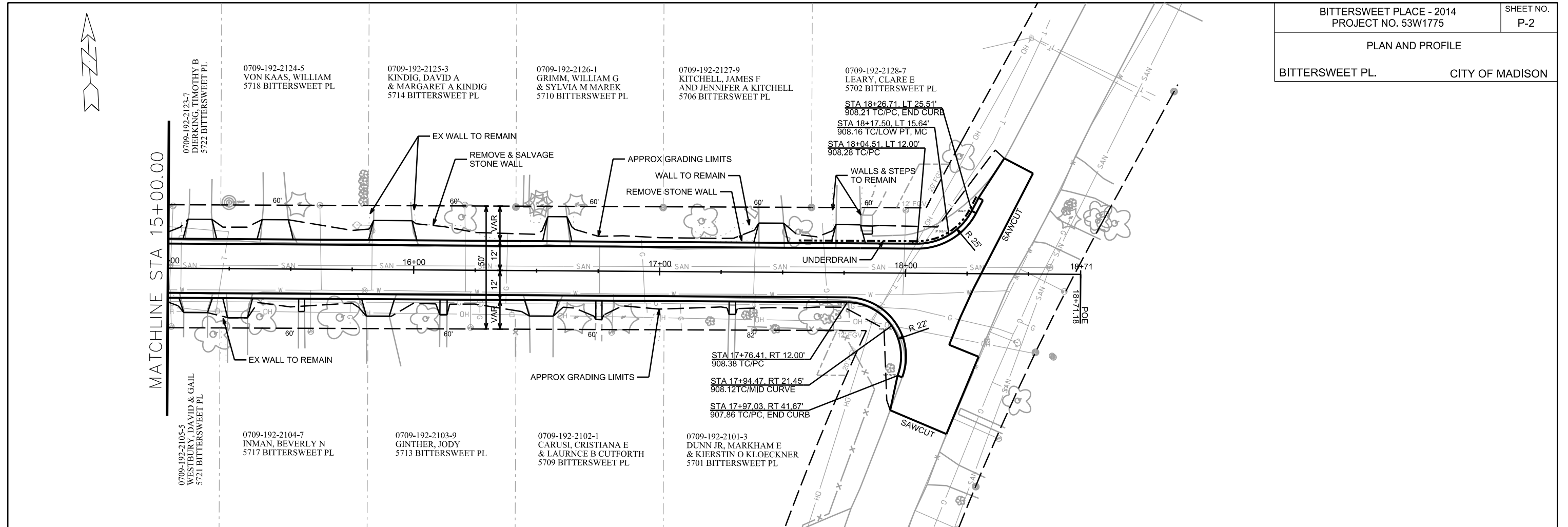
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

BITTERSWEET PL. CITY OF MADISON

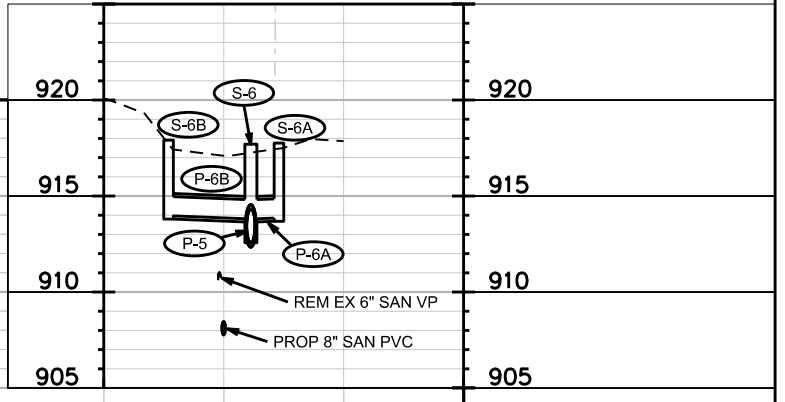
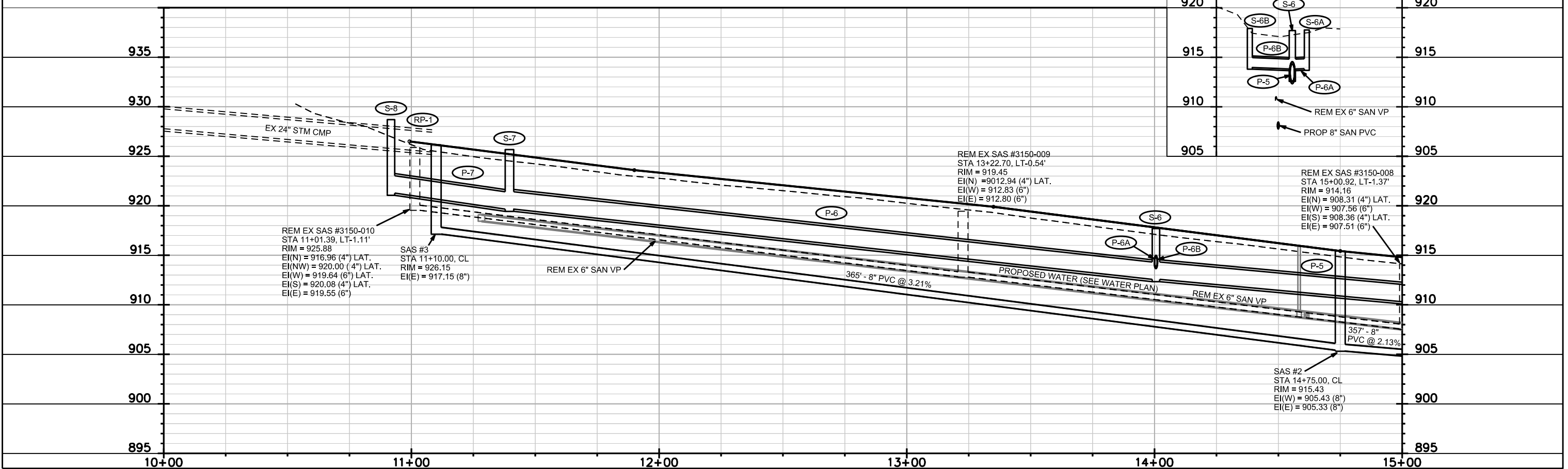
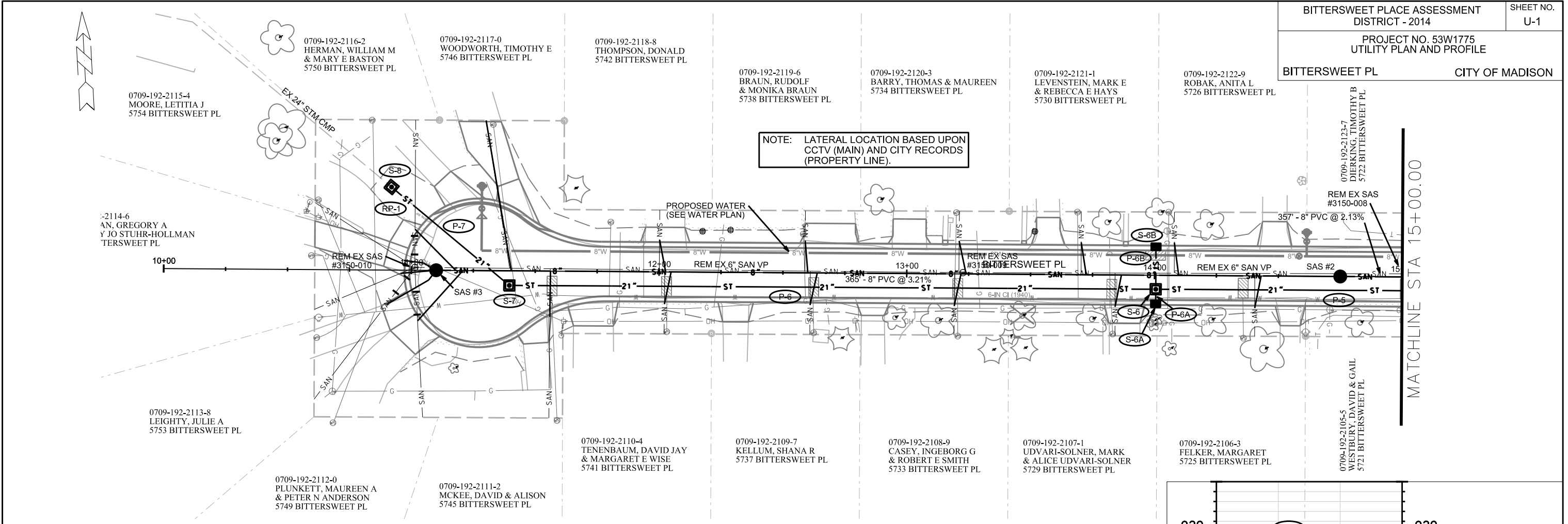


PLOT SCALE: \_\_\_\_\_

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REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

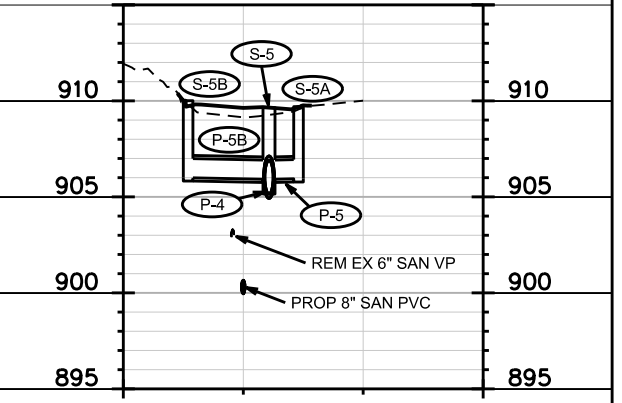
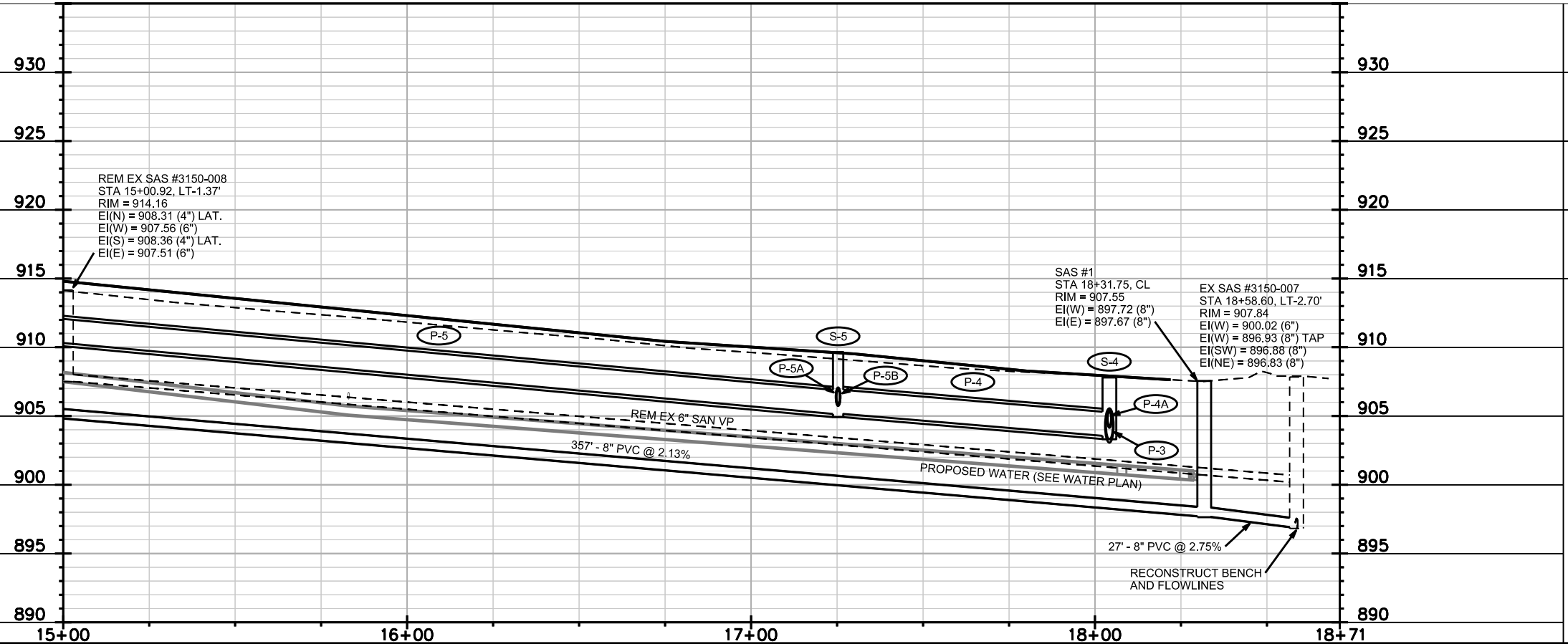
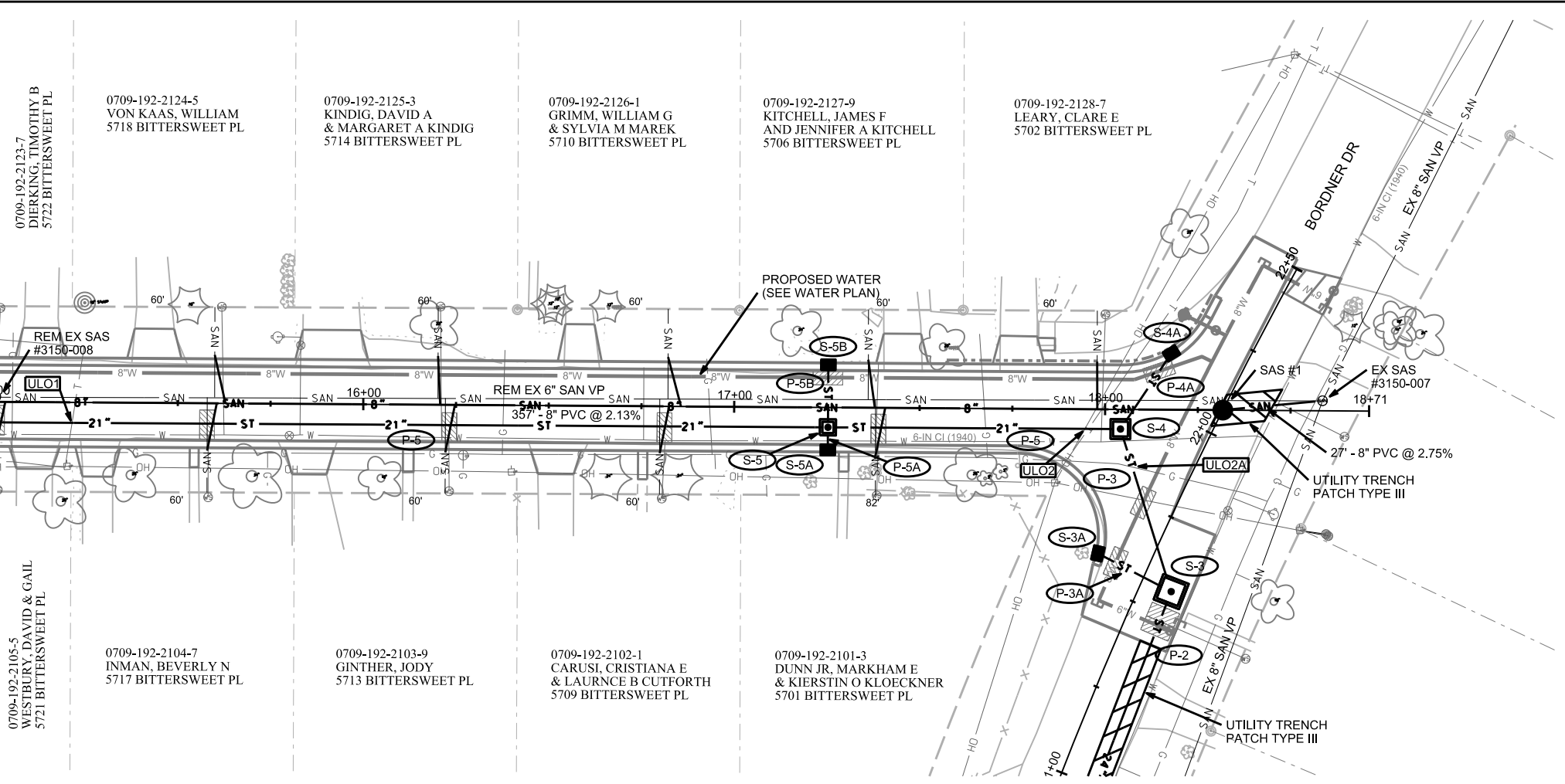


PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION

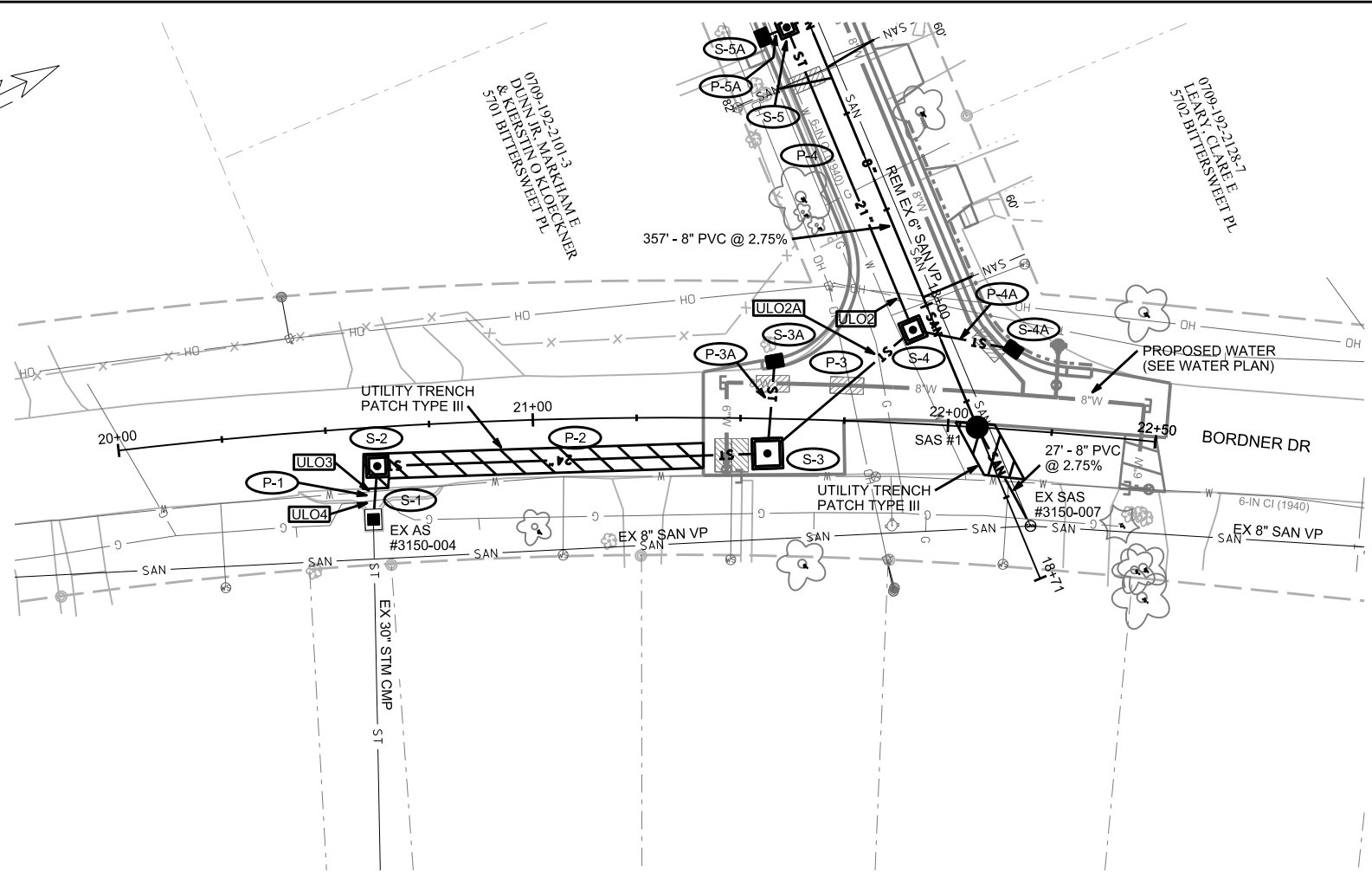
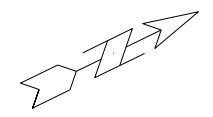


NOTE: LATERAL LOCATION BASED UPON CCTV (MAIN) AND CITY RECORDS (PROPERTY LINE).

MATCHLINE STA 15+00.00



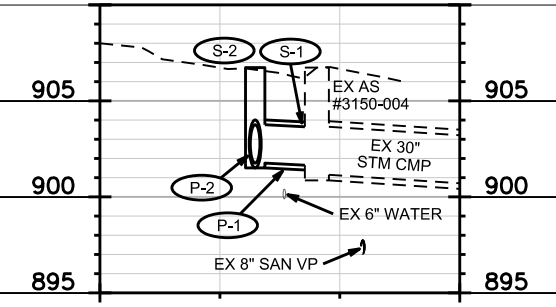
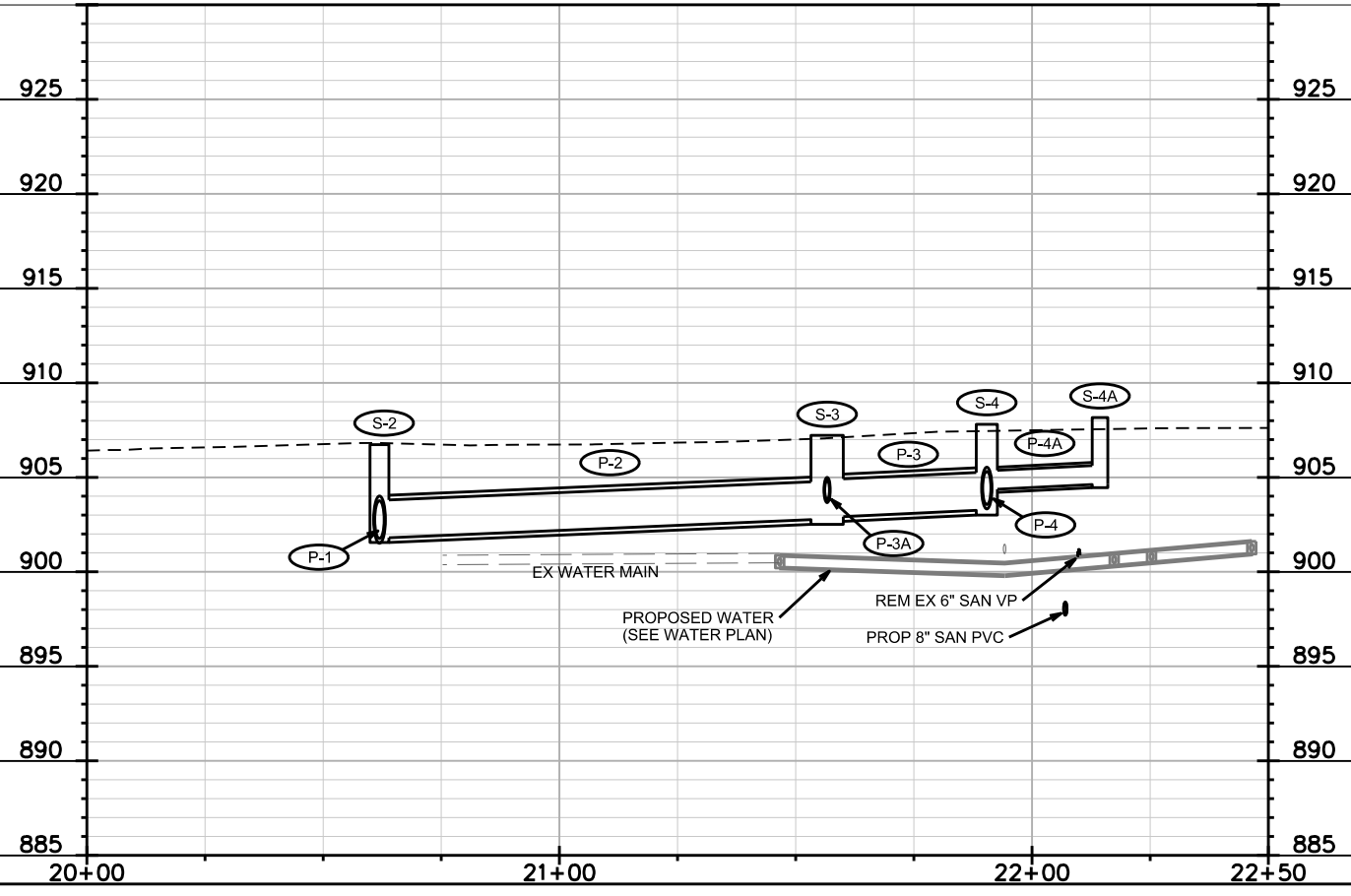
PLOT SCALE:  
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:  
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



# SANITARY SEWER SCHEDULE

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>BITTERSWEET PL</b>						
SAS#1	18+31.75	CL	907.55	897.67	9.88	-
SAS#2	14+75.00	CL	915.43	905.33	10.10	-
SAS#3	11+10.00	CL	926.15	917.15	9.00	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>BITTERSWEET PL</b>								
EX SAS 3150-007	SAS#1	896.93	897.67	27	2.74%	8"	SDR-35	-
SAS #1	SAS #2	897.72	905.33	357	2.13%	8"	SDR-35	-
SAS #2	SAS #3	905.43	917.15	365	3.21%	8"	SDR-35	-

## SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>BITTERSWEET PL</b>						
3150-008	15+00.95	LT-1.40	914.16	907.51	6.65	-
3150-009	13+22.70	LT-0.55	919.45	912.80	6.65	-
3150-010	11+01.40	LT-1.10	925.88	919.55	6.33	-

## SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
<b>BITTERSWEET PL</b>						
EX SAS 3150-007	EX SAS 3150-008	358	VP	6"	N	-
EX SAS 3150-008	EX SAS 3150-009	178	VP	6"	N	-
EX SAS 3150-009	EX SAS 3150-010	221	VP	6"	N	-

## SPECIFIC NOTES

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# STORM SEWER SCHEDULE

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>BORDNER DR</b>							
S-1	20+60.50	RT-19.65	TAP	DNA	901.65	DNA	-
S-2	20+61.92	RT-9.38	4X4 SAS	906.73	901.76	4.97	W/R-1550-0054
S-3	21+56.64	RT-8.39	6X6 CATCHBASIN	907.22	902.83	4.39	(1), FP, W/TWIN R-1550-0054
S-3A	21+57.96	LT-13.85	H INLET	907.91	904.20	3.71	W/R-3067-7009-V
<b>BITTERSWEET PL</b>							
S-4	18+04.18	RT-5.30	4X4 SAS	907.81	903.31	4.50	FP, W/R-1550-0054
S-4A	18+17.76	LT-15.22	H INLET	908.16	904.66	3.50	(3), FP, W/R-3067-7004-VB, LP, UD
S-5	17+25.30	RT-5.37	3X3 SAS	909.65	905.15	4.50	W/R-1550-0054
S-5A	17+25.30	RT-11.50	H INLET	909.61	905.95	3.66	W/R-3067-7009-V
S-5B	17+25.30	LT-11.50	H INLET	910.00	906.00	4.00	W/R-3067-7009-V
S-6	14+00.55	RT-5.65	3X3 SAS	917.70	912.57	5.13	W/R-1550-0054
S-6A	14+00.55	RT-11.50	H INLET	917.76	913.85	3.91	W/R-3067-7009-V
S-6B	14+00.55	LT-11.50	H INLET	917.91	913.97	3.94	W/R-3067-7009-V
S-7	11+39.57	RT-5.87	3X3 SAS	925.67	919.67	6.00	FP, W/R-1550-0054
S-8	10+91.77	LT-33.51	3X3 SAS	928.81	921.28	7.53	(2), FP, W/R-1689-0054

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>BITTERSWEET PL</b>				
ULO1	15+21.52	RT-5.55	TELEPHONE	-
ULO2	17+95.53	RT-5.31	TELEPHONE	-
ULO2A	18+07.44	RT-15.54	GAS	-
<b>BORDNER DR</b>				
ULO3	20+61.09	RT-15.40	WATER	-
ULO4	20+60.78	RT-17.60	GAS	-

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>BORDNER DR</b>										
P-1	S-1	S-2	901.65	901.76	13	8.5	1.29%	24"	RCP	-
P-2	S-2	S-3	901.76	902.83	94	89	1.20%	24"	RCP	-
P-3A	S-3	S-3A	903.83	904.20	22.5	18.5	2.00%	12"	RCP	-
<b>BITTERSWEET PL</b>										
P-3	S-3	S-4	902.83	903.31	46	40	1.20%	24"	RCP	-
P-4	S-4	S-5	903.56	905.15	79	75.5	2.11%	21"	RCP	-
P-4A	S-4	S-4A	904.31	904.66	25	20.5	1.71%	12"	RCP	-
P-5	S-5	S-6	905.15	912.57	325	322	2.30%	21"	RCP	-
P-5A	S-5	S-5A	905.90	905.95	6.5	4	1.25%	12"	RCP	-
P-5B	S-5	S-5B	905.90	906.00	17	14.5	0.69%	12"	RCP	-
P-6	S-6	S-7	912.57	919.67	261	258	2.75%	21"	RCP	-
P-6A	S-6	S-6A	913.82	913.85	6	3.5	0.86%	12"	RCP	-
P-6B	S-6	S-6B	913.82	913.97	17.5	15	1.00%	12"	RCP	-
P-7	S-7	S-8	919.67	921.28	62	58.5	2.75%	21"	RCP	-

## REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	FREE END	S-8	23	24"	CMP	N	-

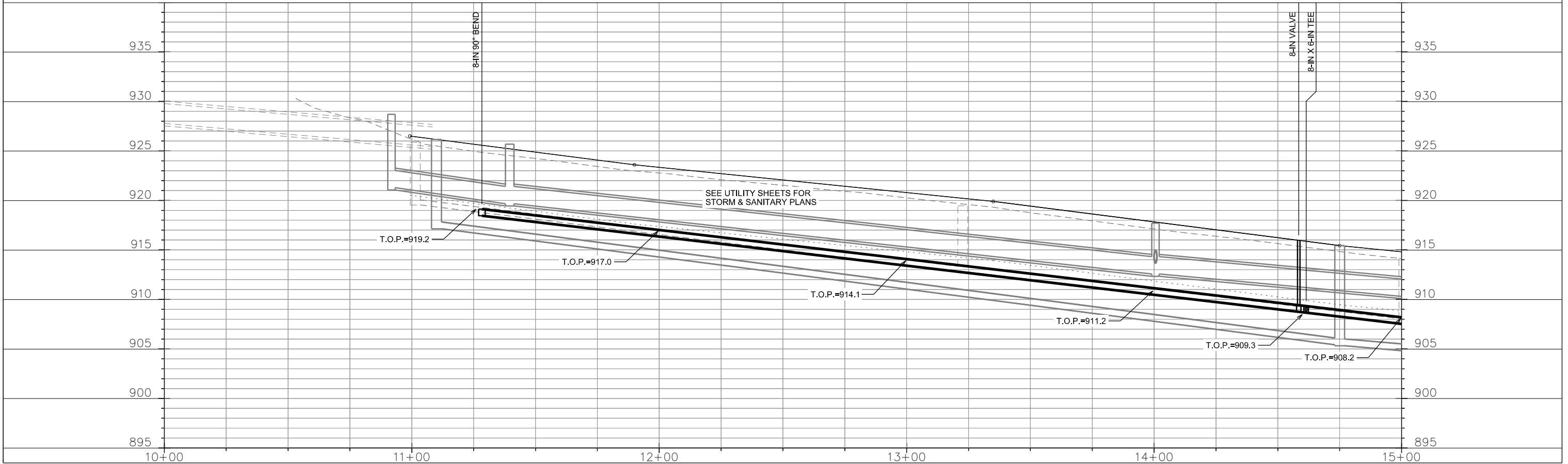
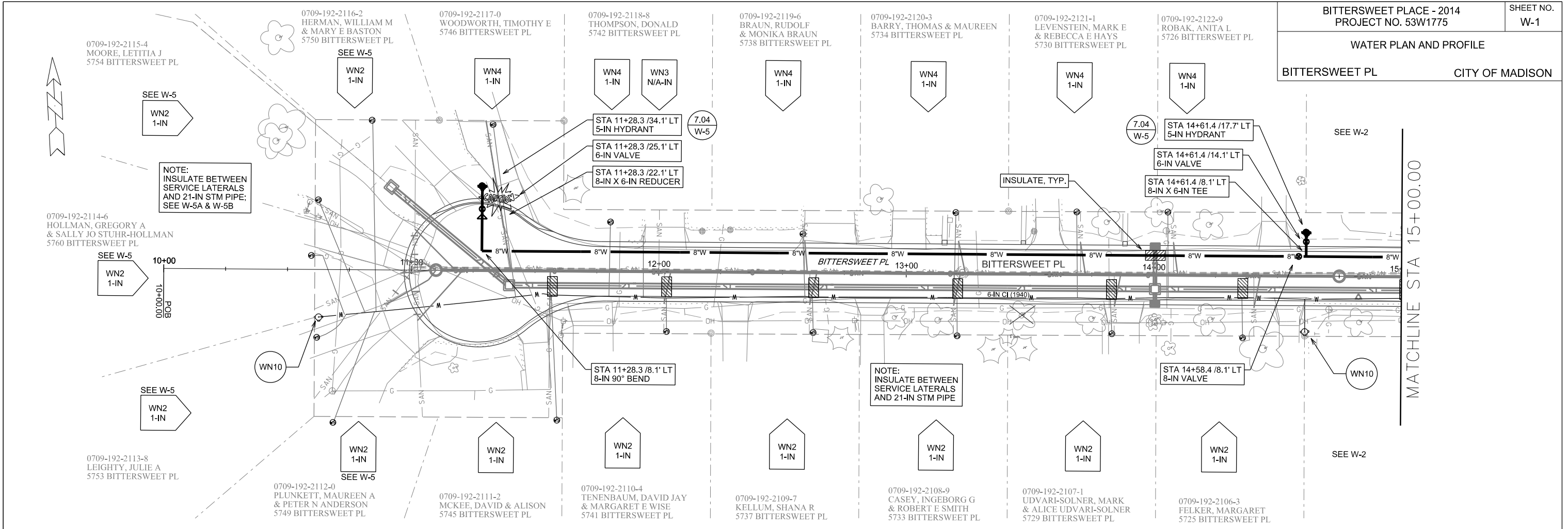
**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

## STANDARD NOTES:

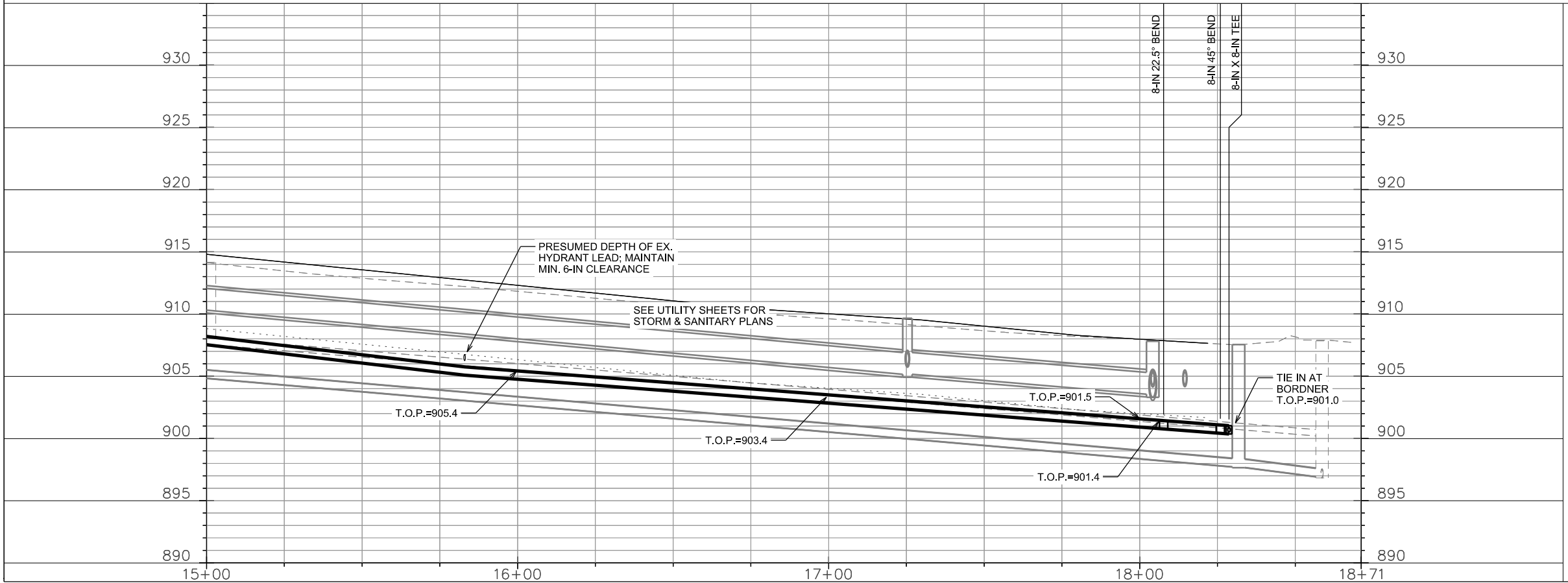
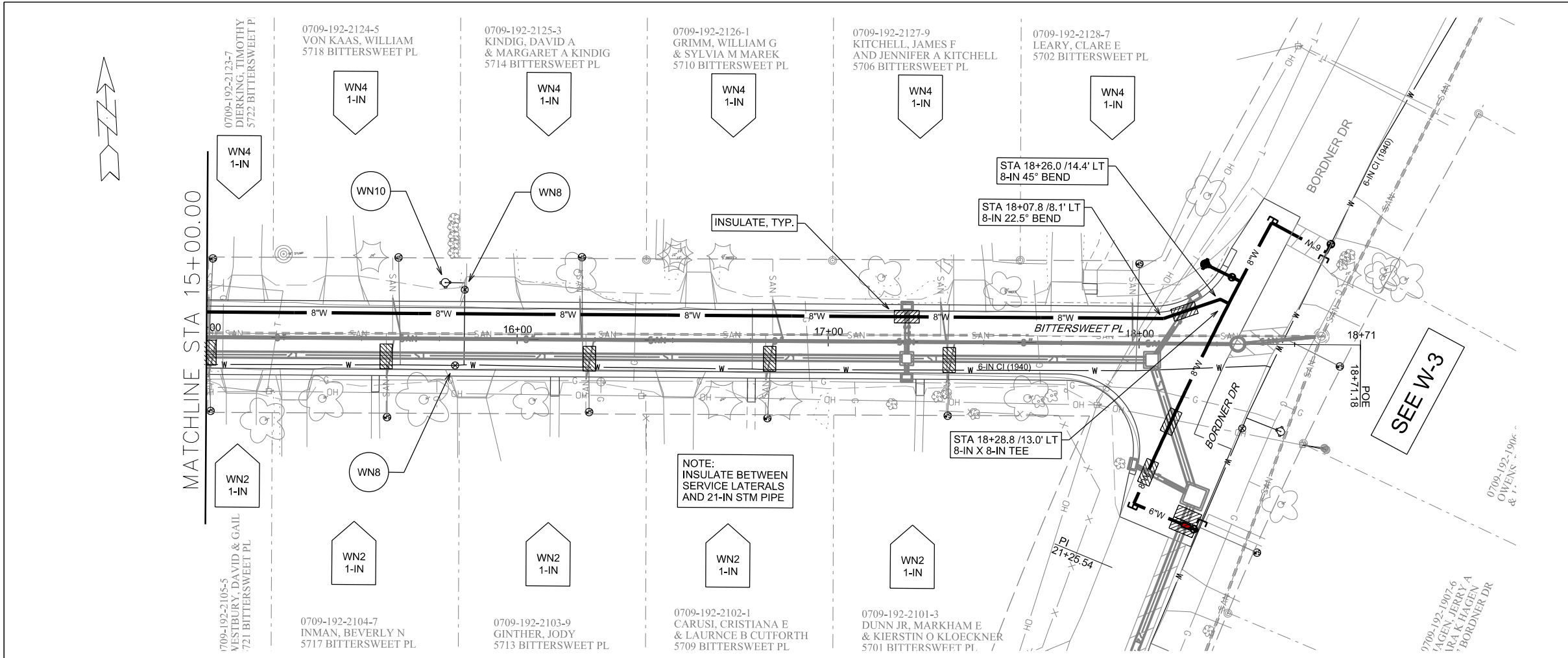
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = 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 KFRANK@CITYOFMADISON.COM.

## SPECIFIC NOTES

- (1) W/ 3' SUMP BELOW LISTED E.I. PER S.D.D 5.7.4
- (2) TAP EXISTING 24" CMP @ 925.81
- (3) ADJUST CASTING CURB BOX TO MATCH PROPOSED 4" CURB HEAD



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

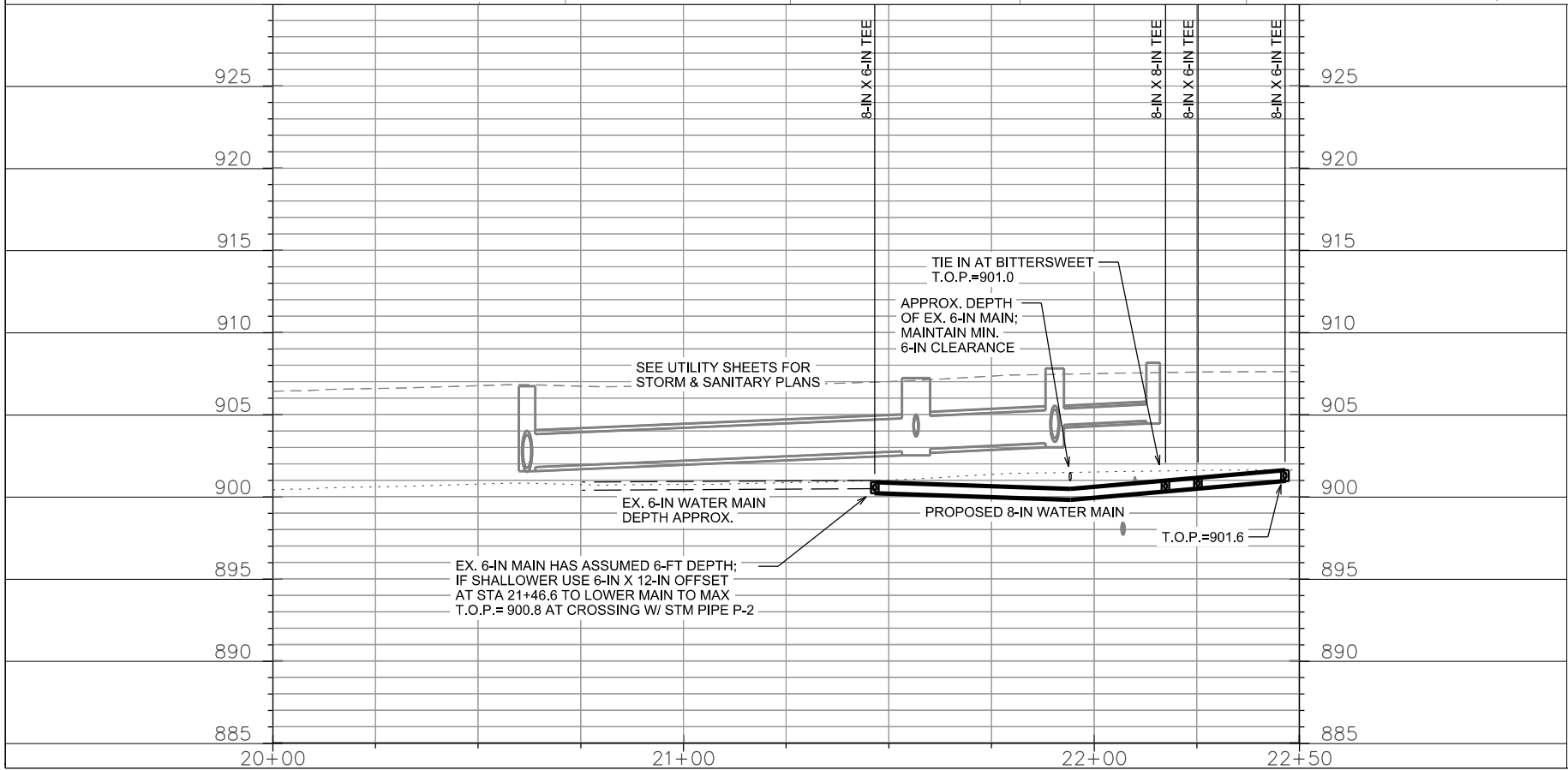
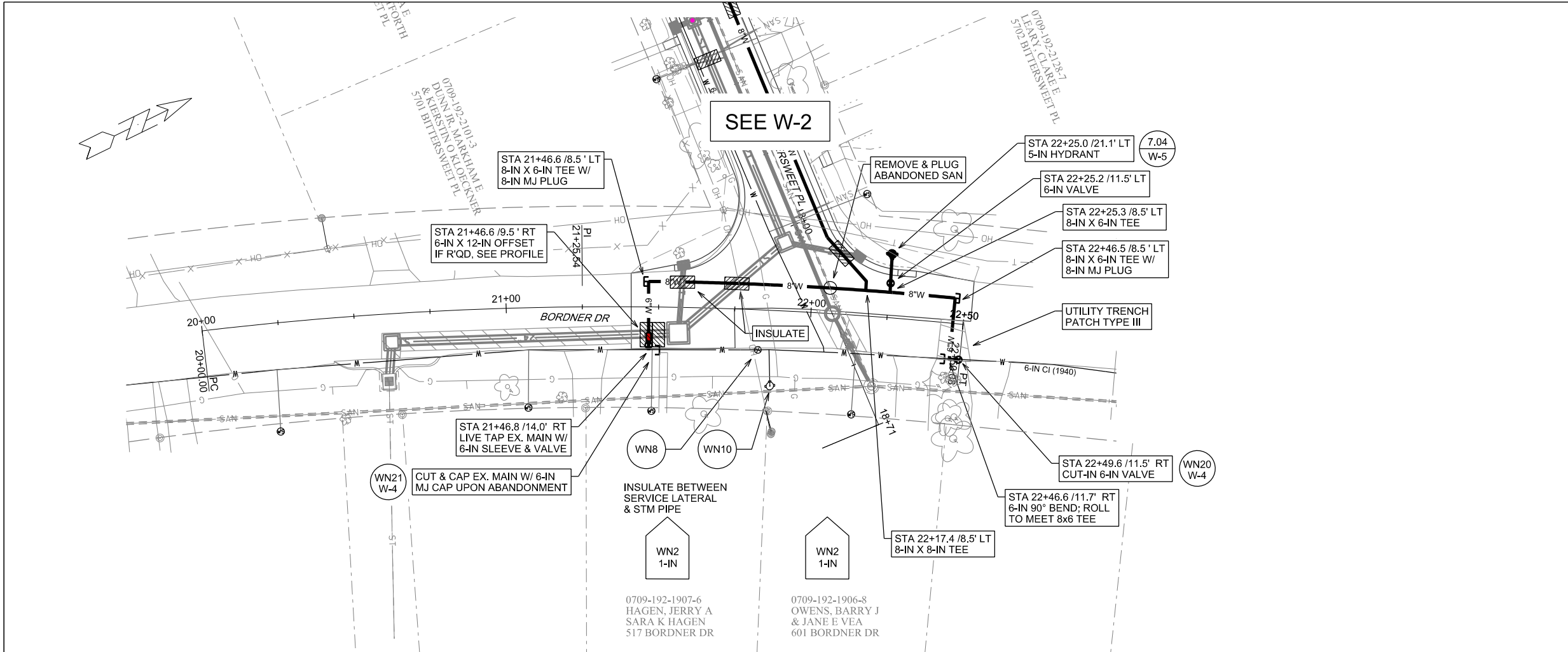


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



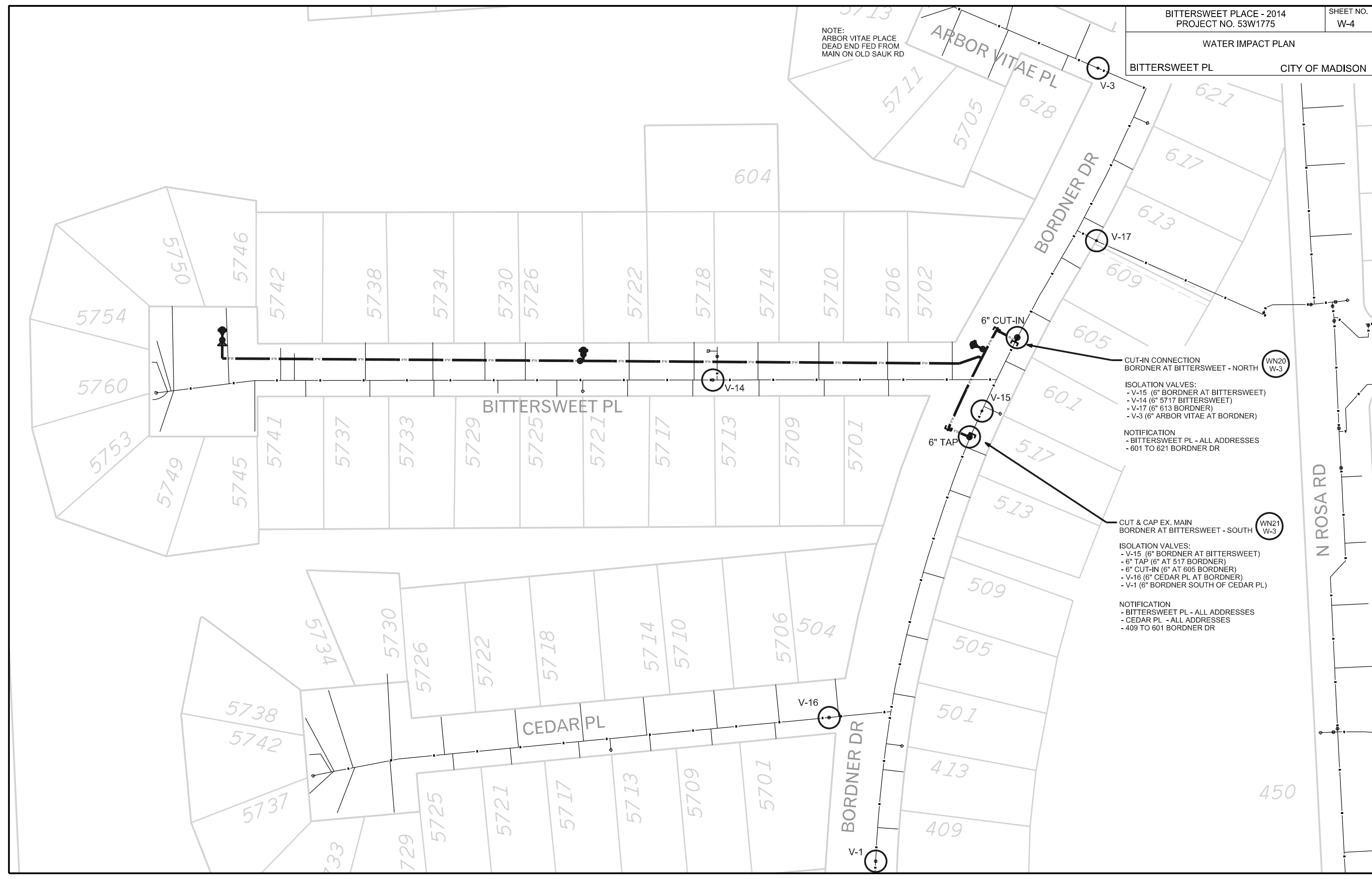
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

NOTE:  
ARBOR VITAE PLACE  
DEAD END FED FROM  
MAIN ON OLD SAUK RD



CUT-IN CONNECTION  
BORDNER AT BITTERSWEET - NORTH (WN20 W-3)

- ISOLATION VALVES:
- V-15 (6" BORDNER AT BITTERSWEET)
  - V-14 (6" 5717 BITTERSWEET)
  - V-17 (6" 613 BORDNER)
  - V-3 (6" ARBOR VITAE AT BORDNER)

NOTIFICATION  
- BITTERSWEET PL - ALL ADDRESSES  
- 601 TO 621 BORDNER DR

CUT & CAP EX. MAIN  
BORDNER AT BITTERSWEET - SOUTH (WN21 W-3)

- ISOLATION VALVES:
- V-15 (6" BORDNER AT BITTERSWEET)
  - 6" TAP (6" AT 517 BORDNER)
  - 6" CUT-IN (6" AT 605 BORDNER)
  - V-16 (6" CEDAR PL AT BORDNER)
  - V-1 (6" BORDNER SOUTH OF CEDAR PL)

NOTIFICATION  
- BITTERSWEET PL - ALL ADDRESSES  
- CEDAR PL - ALL ADDRESSES  
- 409 TO 601 BORDNER DR

PLOT SCALE: \_\_\_\_\_

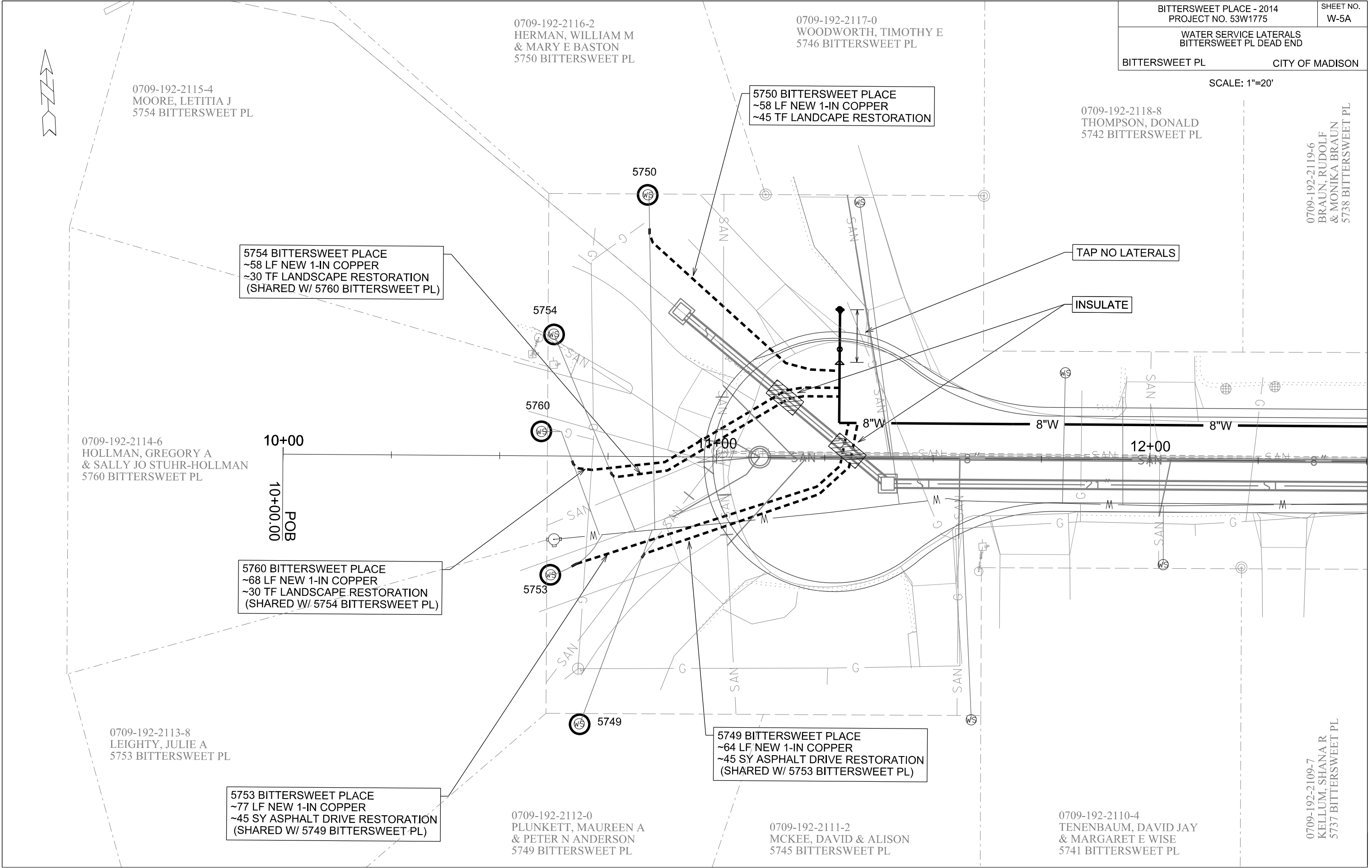
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SCALE: 1"=20'



5754 BITTERSWEET PLACE  
~58 LF NEW 1-IN COPPER  
~30 TF LANDSCAPE RESTORATION  
(SHARED W/ 5760 BITTERSWEET PL)

5750 BITTERSWEET PLACE  
~58 LF NEW 1-IN COPPER  
~45 TF LANDSCAPE RESTORATION

5760 BITTERSWEET PLACE  
~68 LF NEW 1-IN COPPER  
~30 TF LANDSCAPE RESTORATION  
(SHARED W/ 5754 BITTERSWEET PL)

5749 BITTERSWEET PLACE  
~64 LF NEW 1-IN COPPER  
~45 SY ASPHALT DRIVE RESTORATION  
(SHARED W/ 5753 BITTERSWEET PL)

5753 BITTERSWEET PLACE  
~77 LF NEW 1-IN COPPER  
~45 SY ASPHALT DRIVE RESTORATION  
(SHARED W/ 5749 BITTERSWEET PL)

TAP NO LATERALS

INSULATE

10+00  
10+00.00  
POB

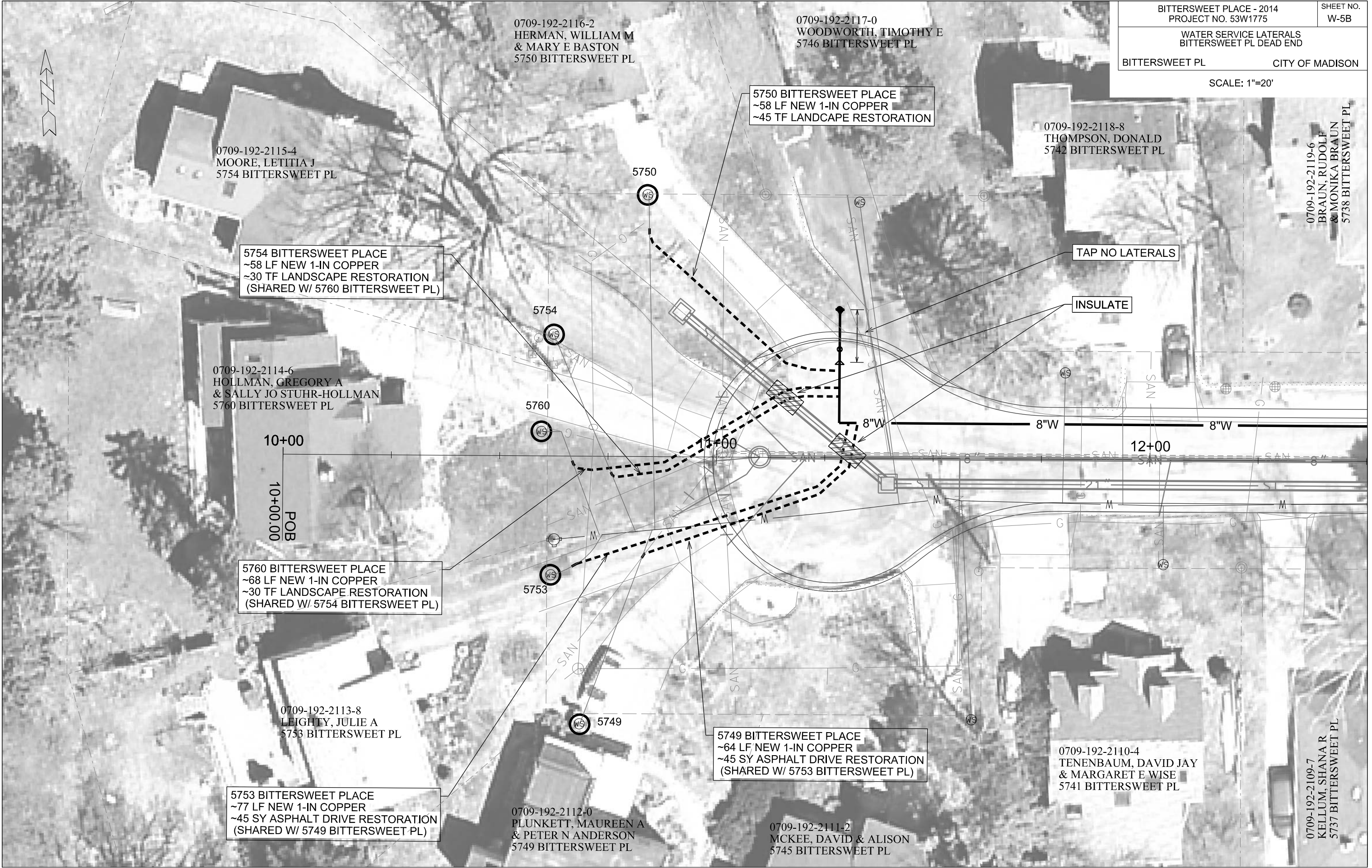
12+00

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



0709-192-2116-2  
HERMAN, WILLIAM M  
& MARY E BASTON  
5750 BITTERSWEET PL

0709-192-2117-0  
WOODWORTH, TIMOTHY E  
5746 BITTERSWEET PL

0709-192-2115-4  
MOORE, LETITIA J  
5754 BITTERSWEET PL

0709-192-2118-8  
THOMPSON, DONALD  
5742 BITTERSWEET PL

0709-192-2119-6  
BRAUN, RUDOLF  
& MONIKA BRAUN  
5738 BITTERSWEET PL

5754 BITTERSWEET PLACE  
~58 LF NEW 1-IN COPPER  
~30 TF LANDSCAPE RESTORATION  
(SHARED W/ 5760 BITTERSWEET PL)

TAP NO LATERALS

INSULATE

0709-192-2114-6  
HOLLMAN, GREGORY A  
& SALLY JO STUHR-HOLLMAN  
5760 BITTERSWEET PL

10+00  
10+00.00  
POB

5760 BITTERSWEET PLACE  
~68 LF NEW 1-IN COPPER  
~30 TF LANDSCAPE RESTORATION  
(SHARED W/ 5754 BITTERSWEET PL)

0709-192-2113-8  
LEIGHTY, JULIE A  
5753 BITTERSWEET PL

5749 BITTERSWEET PLACE  
~64 LF NEW 1-IN COPPER  
~45 SY ASPHALT DRIVE RESTORATION  
(SHARED W/ 5753 BITTERSWEET PL)

0709-192-2110-4  
TENENBAUM, DAVID JAY  
& MARGARET E WISE  
5741 BITTERSWEET PL

5753 BITTERSWEET PLACE  
~77 LF NEW 1-IN COPPER  
~45 SY ASPHALT DRIVE RESTORATION  
(SHARED W/ 5749 BITTERSWEET PL)

0709-192-2112-0  
PLUNKETT, MAUREEN A  
& PETER N ANDERSON  
5749 BITTERSWEET PL

0709-192-2111-2  
MCKEE, DAVID & ALISON  
5745 BITTERSWEET PL

0709-192-2109-7  
KELLUM, SHANA R  
5737 BITTERSWEET PL

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 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
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTFICATION INFORMATION.

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

85-FT - 6-IN PIPE	1 - 6-IN 90° BEND
825-FT - 8-IN PIPE	1 - 8-IN 90° BEND
1090-FT - POLYWRAP	1 - 8-IN 45° BEND
4 - 6-IN VALVE & BOX	1 - 8-IN 22.5° BEND
1 - 8-IN VALVE & BOX	2 - 8-IN MJ PLUG
4 - 8-IN X 6-IN TEE	2 - 6-IN MJ CAP
1 - 8-IN X 8-IN TEE	3 - 5-IN HYDRANT
1 - 6-IN X 12-IN OFFSET	168-FT - 2-IN STYROFOAM INSULATION
1 - 8-IN X 6-IN REDUCER	1-IN COPPER (AS R'QD)

**MATERIALS SUPPLIED BY CITY:**

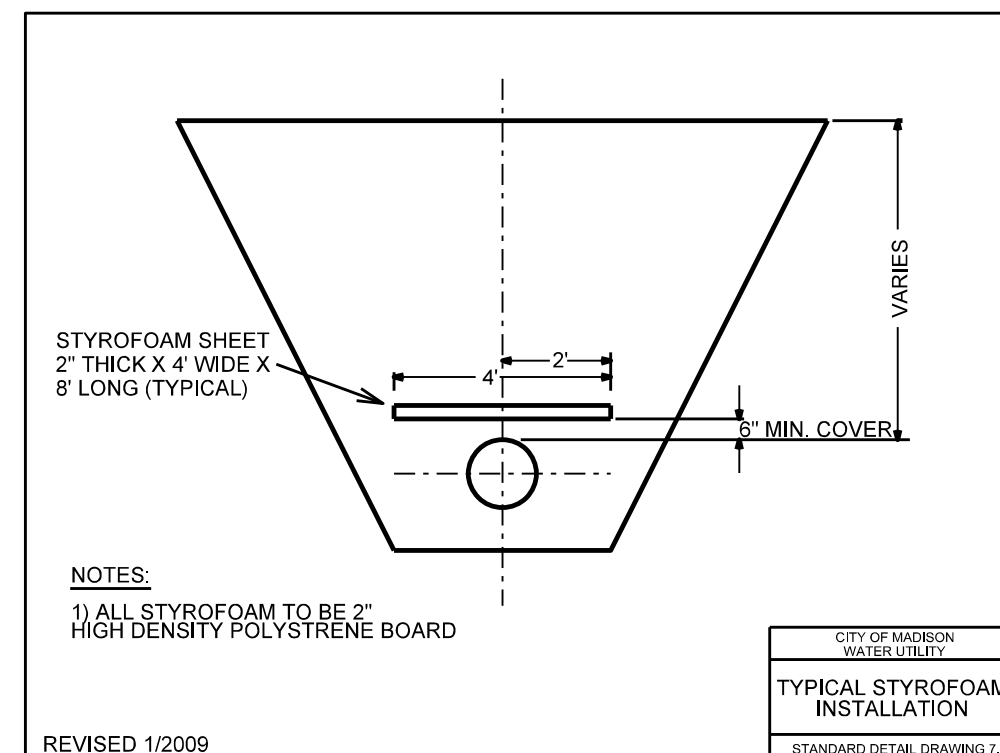
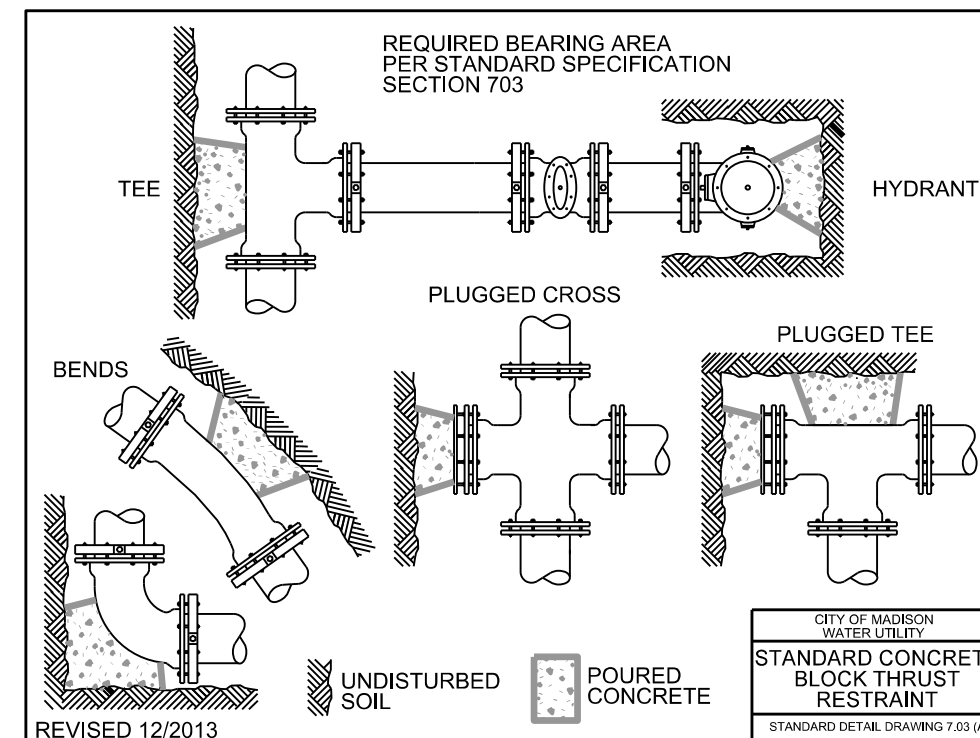
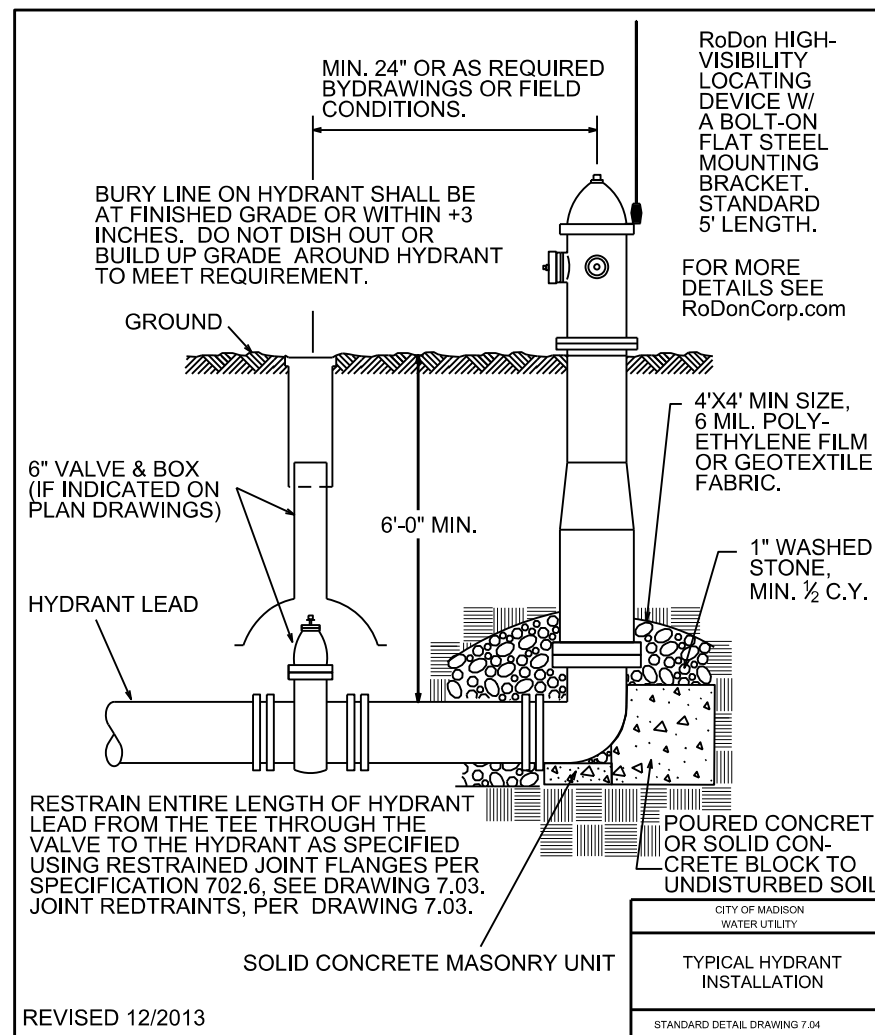
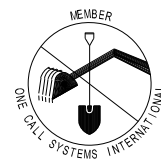
- 1 - 6-IN X 6-IN TAPPING SLEEVE & VALVE

**REUSED MATERIALS**

NONE

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.



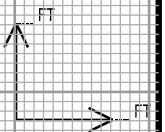
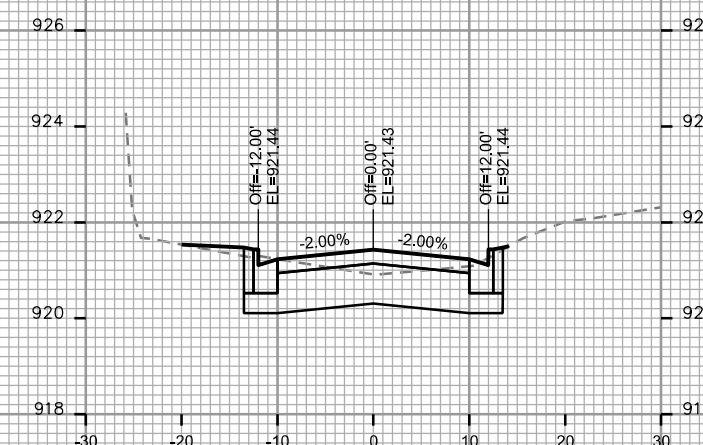
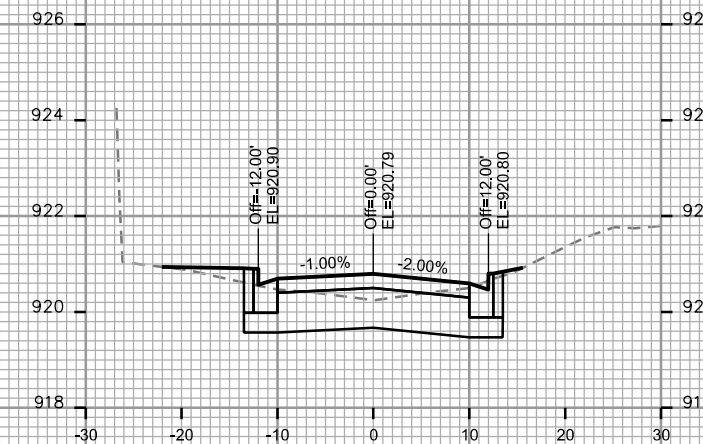
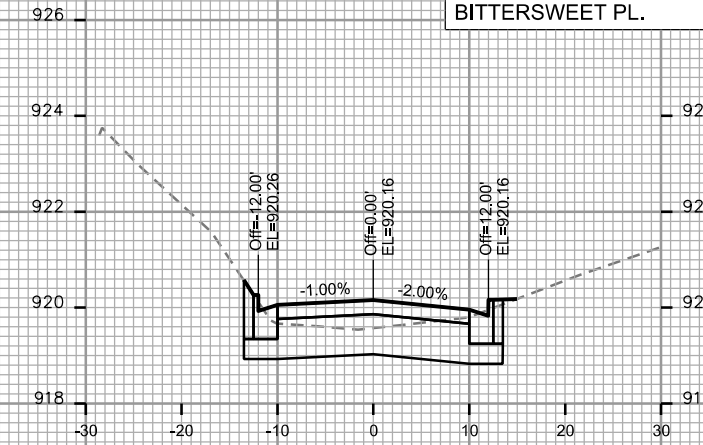
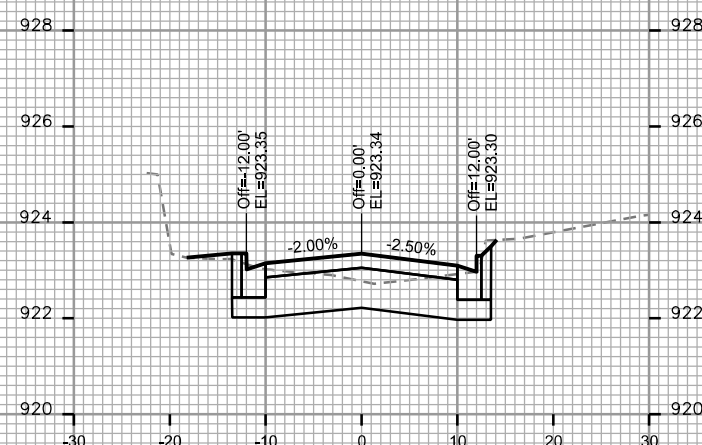
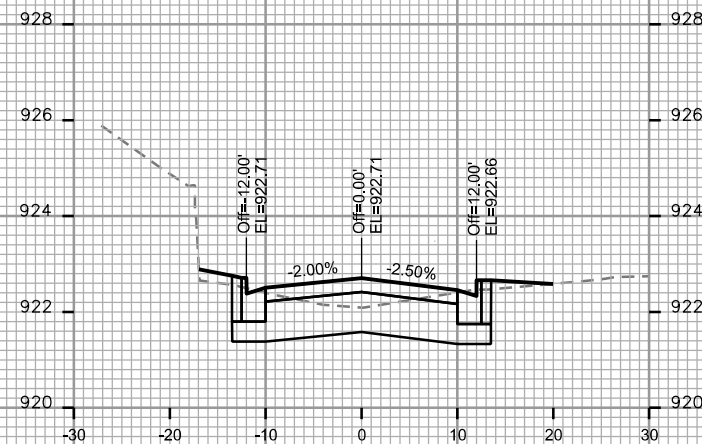
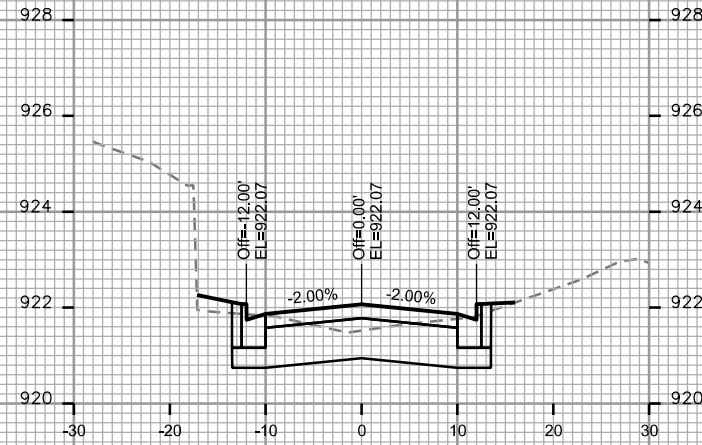
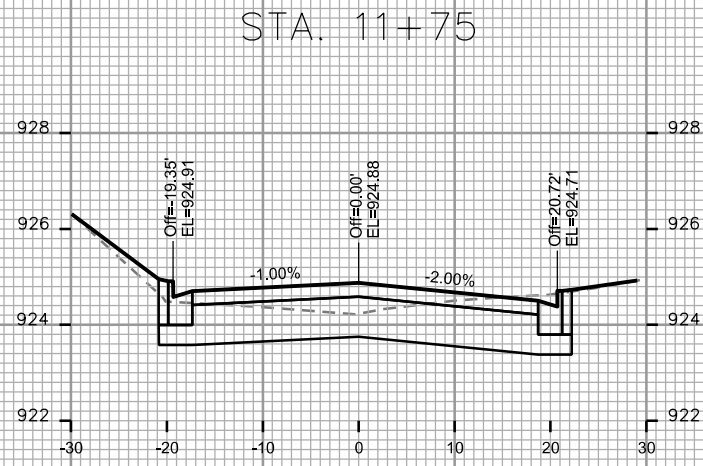
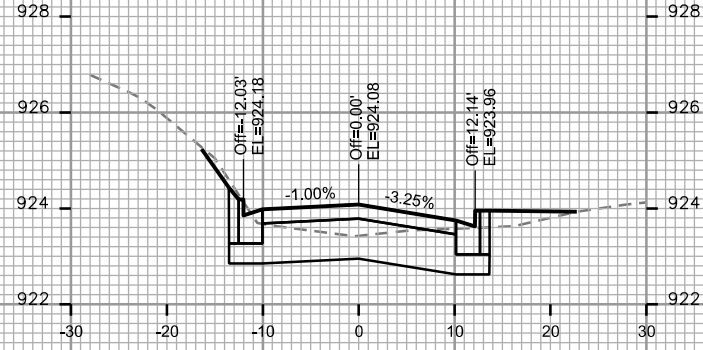
CROSS SECTIONS  
BITTERSWEET PL. CITY OF MADISON

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

BITTERSWEET PL.

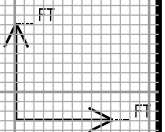
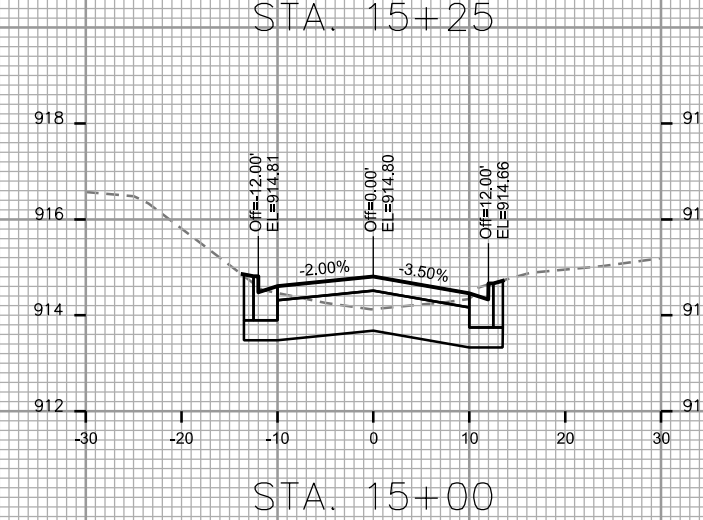
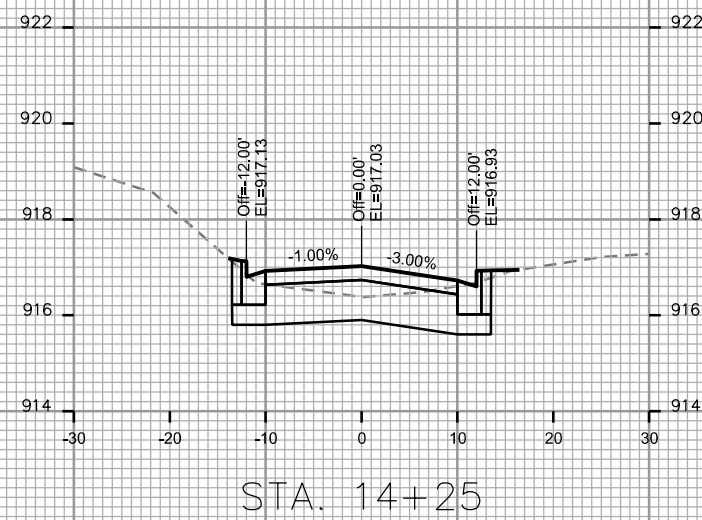
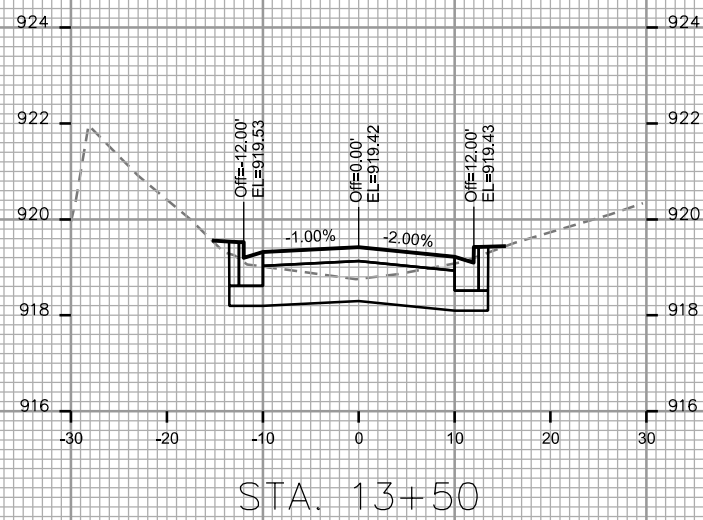
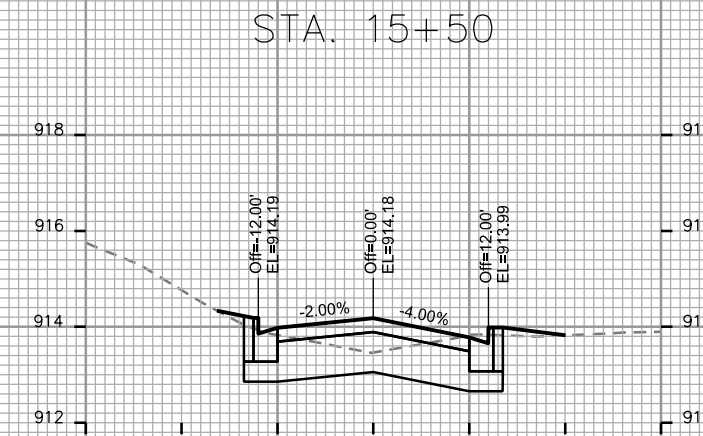
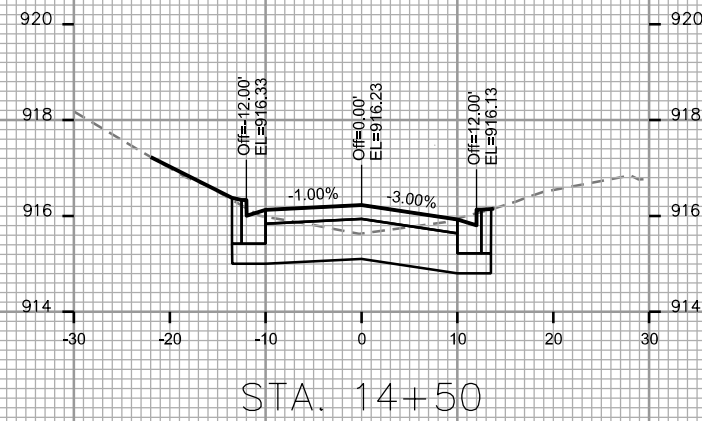
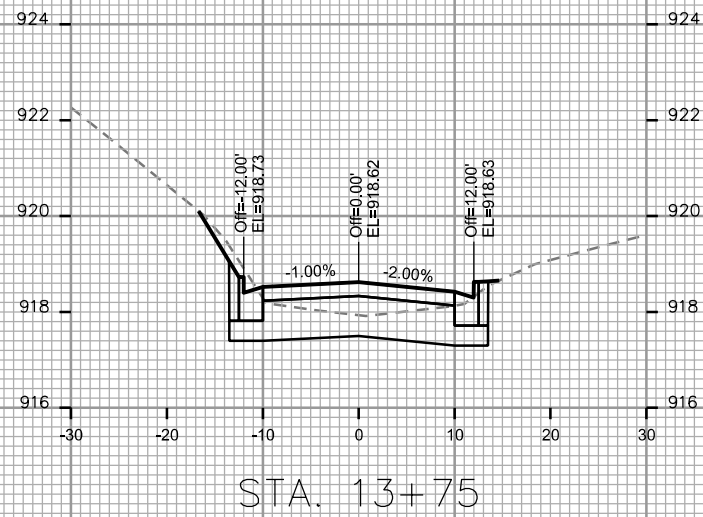
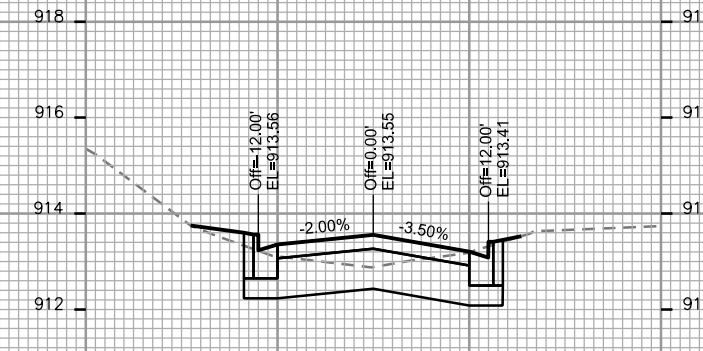
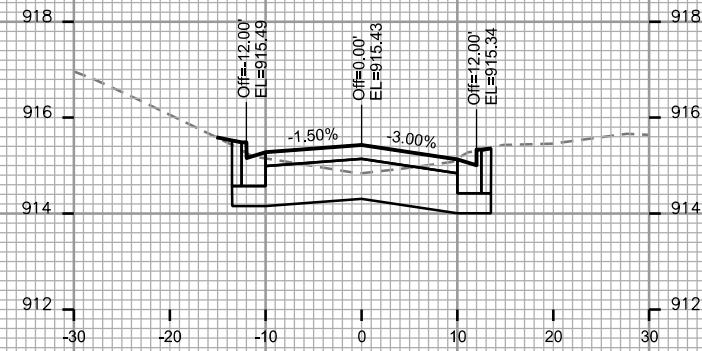
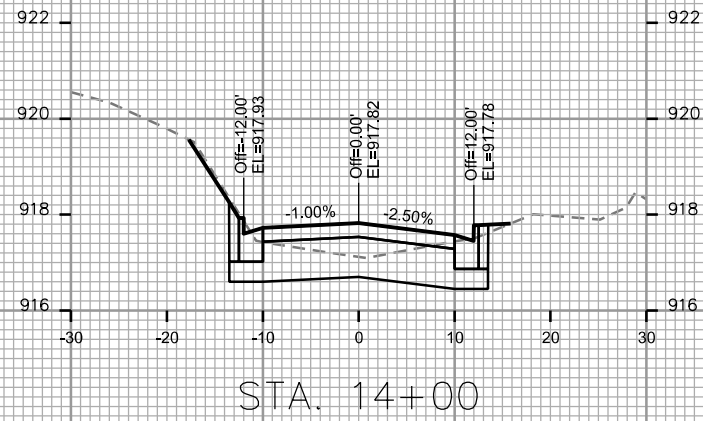
CITY OF MADISON

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





CROSS SECTIONS

BITTERSWEET PL.

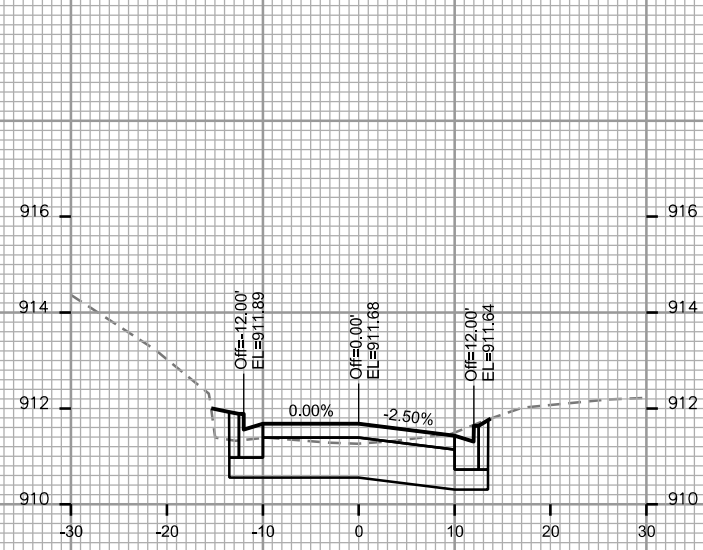
CITY OF MADISON

PLOT SCALE: \_\_\_\_\_

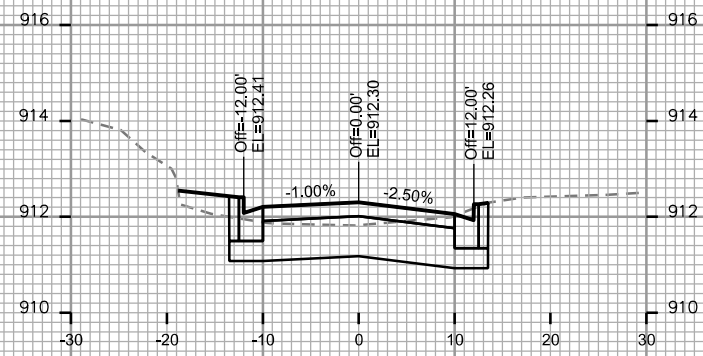
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REV. DATE: \_\_\_\_\_

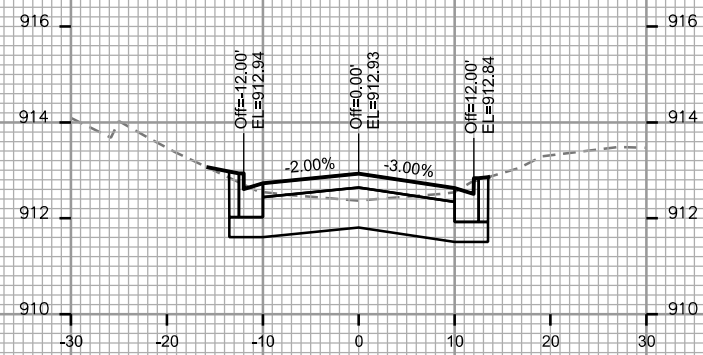
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



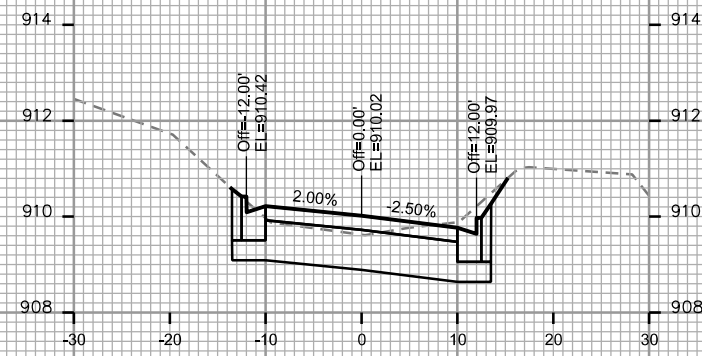
STA. 16+25



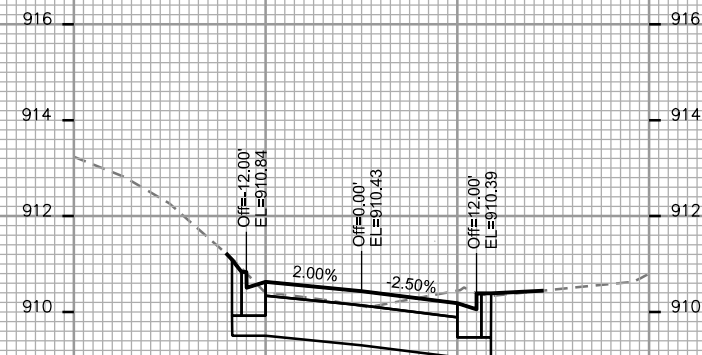
STA. 16+00



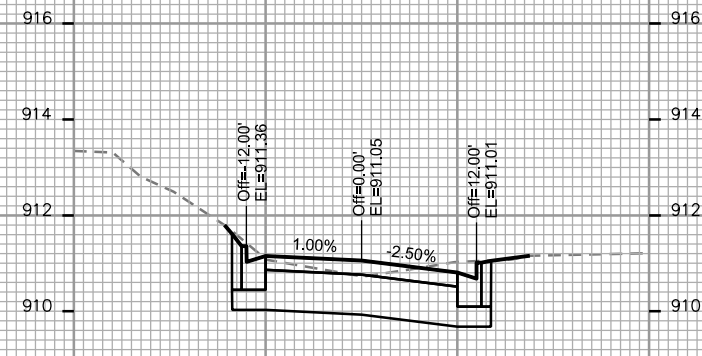
STA. 15+75



STA. 17+00



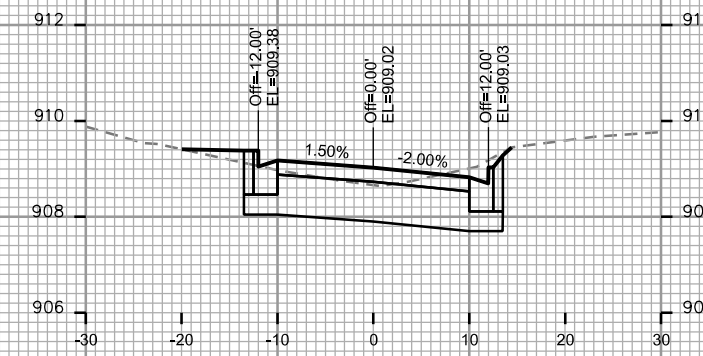
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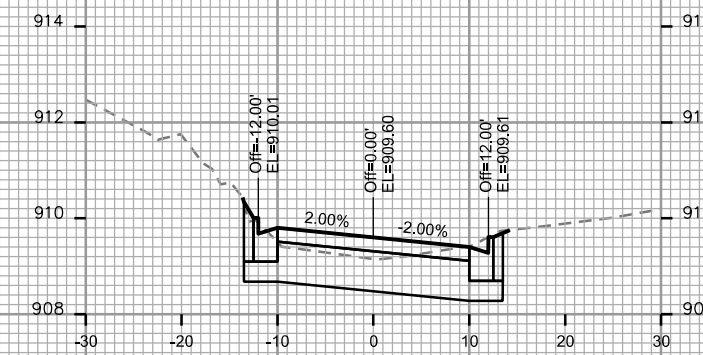
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STA. 17+75



STA. 17+50



STA. 17+25

