

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

MAY 5, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Michael Daley 5/21/2015
City Engineer Date

INDEX OF SHEETS

SHEET NO.	TITLE
1	
DI	DETAILS
EC1-EC2	EROSION CONTROL PLAN
PI-P2	STREET PLAN & PROFILES
UI-U2	UTILITY PLAN & PROFILES
U3	SANITARY SEWER SCHEDULE
U4	STORM SEWER SCHEDULE
WI-W3	WATER PLAN & PROFILES
W4	WATER SYSTEM IMPACT PLAN
W5	WATER ESTIMATE OF MATERIALS
XI-X6	CROSS SECTIONS

WIRTH COURT RECONSTRUCTION ASSESSMENT DISTRICT-2015

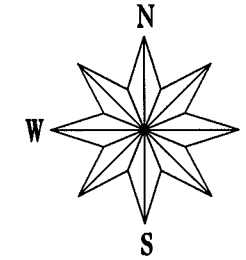
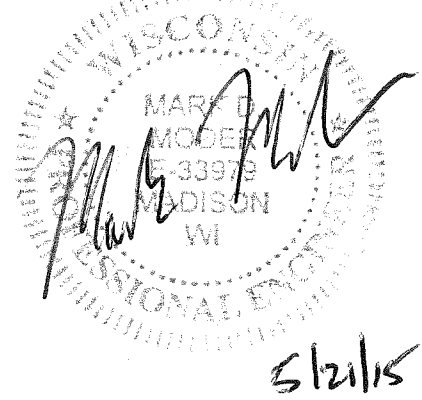
CITY PROJECT NO. 53W1515 MUNIS NO. 10212

CITY CONTRACT NO. 7448

STREET DESIGNED BY:

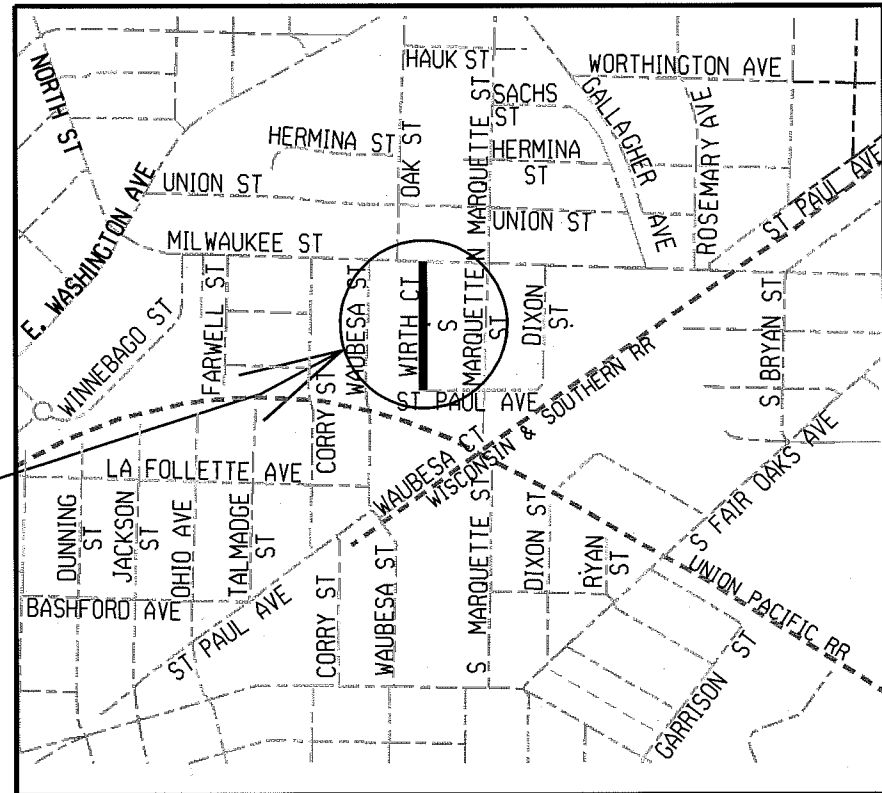


SANITARY SEWER DESIGNED BY:



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



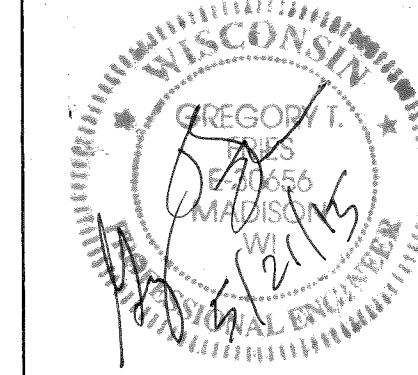
NOTES:

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

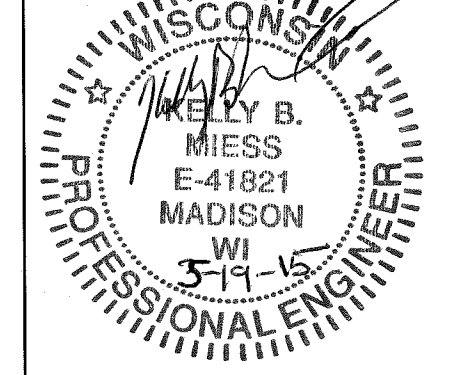
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 743 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT..... 280 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 1023 C.Y.

STORM SEWER DESIGNED BY:



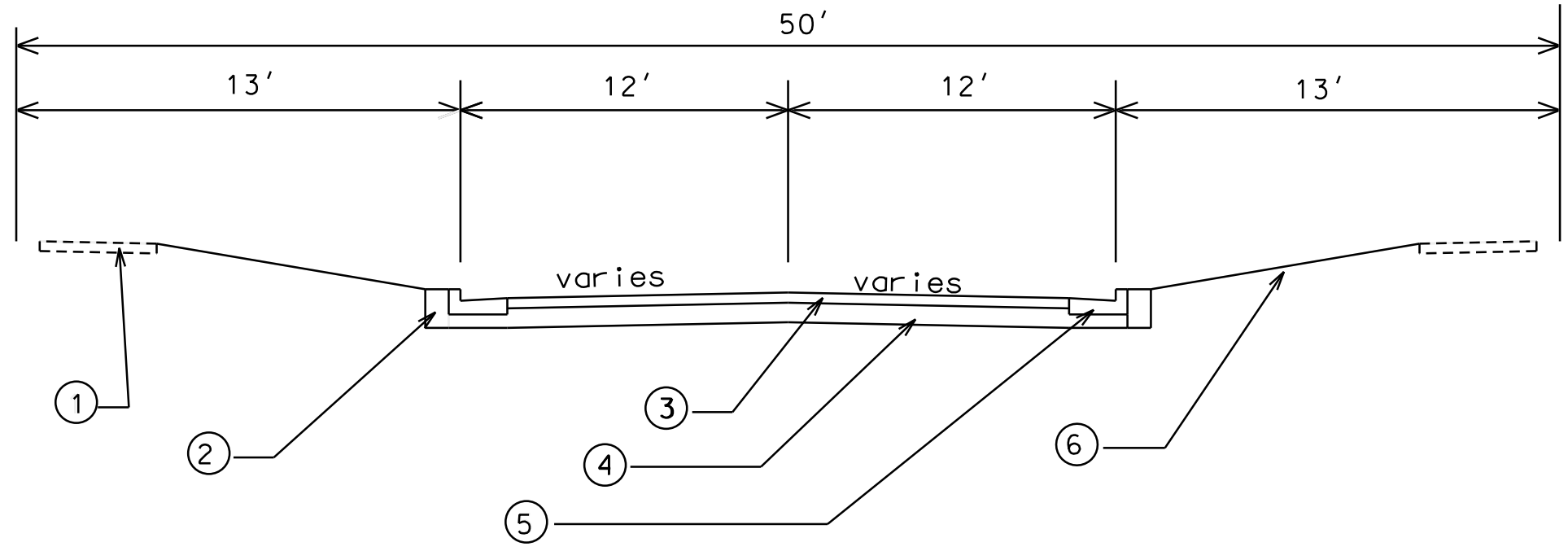
WATER DESIGNED BY:



PLOT SCALE:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



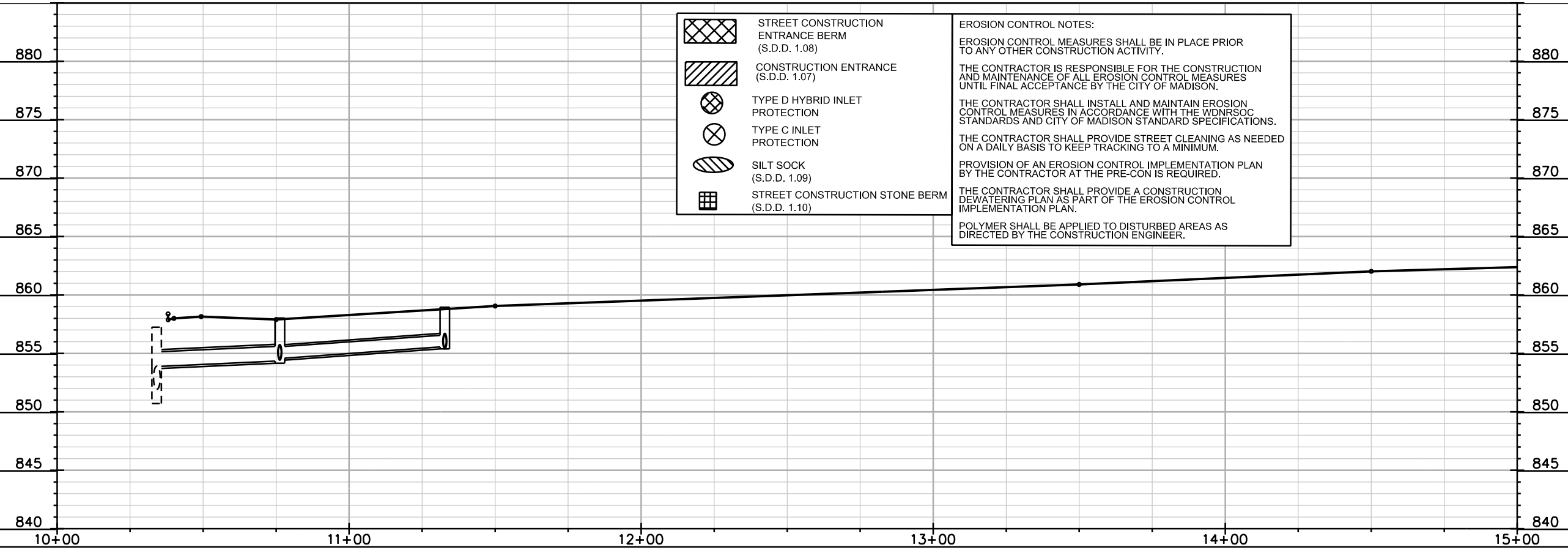
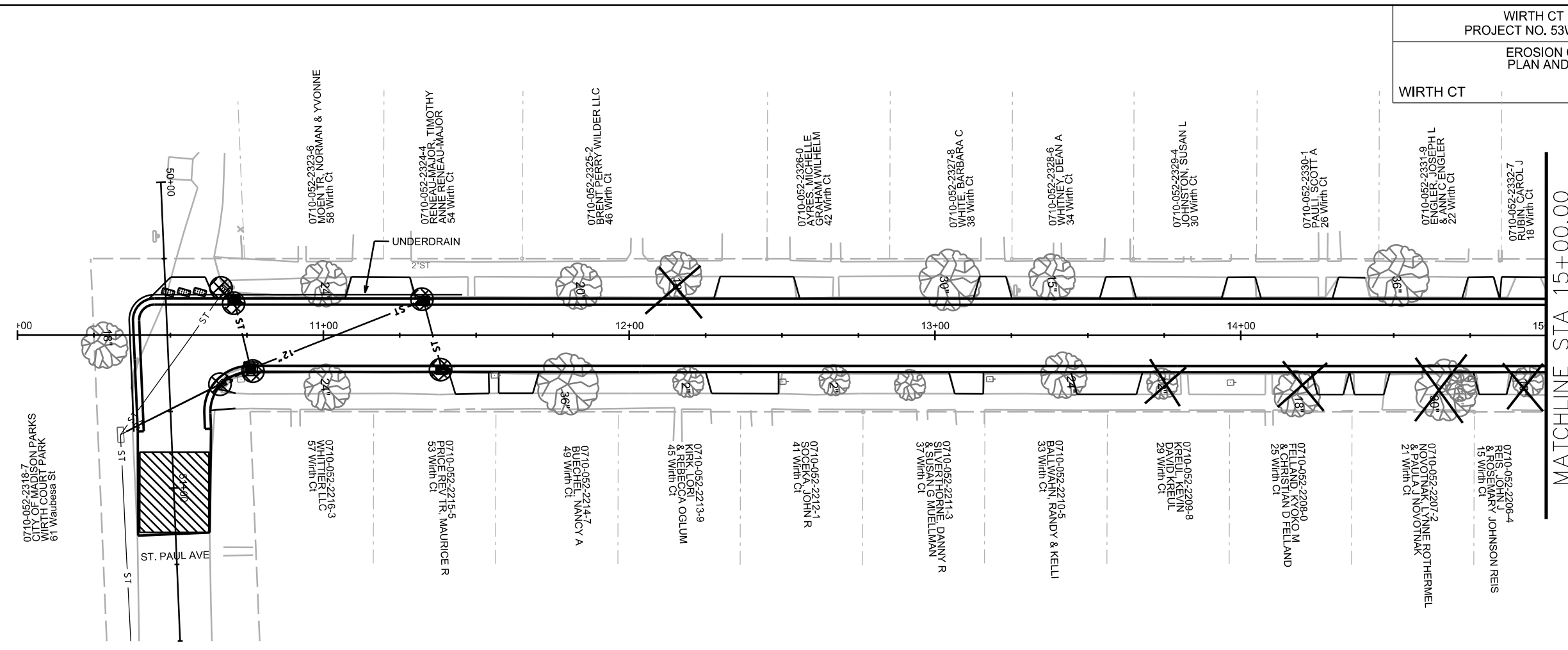
TYPICAL SECTION







- ① EX. 5" CONC. SW
- ② FILL
- ③ 3-1/2" HMA PAV'T TYPE 0.3
- ④ 4" C.A.B.C.GR. 2
6" C.A.B.C.GR. 1
- ⑤ TYPE A CONC. C&G
- ⑥ 4" TOPSOIL, SEED & MATTING

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

PLOT NAME: _____ PLOT SCALE: _____

ORIGINATOR: _____ REV. DATE: _____



-  STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
-  CONSTRUCTION ENTRANCE (S.D.D. 1.07)
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (S.D.D. 1.09)
-  STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

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.

PLOT SCALE: _____

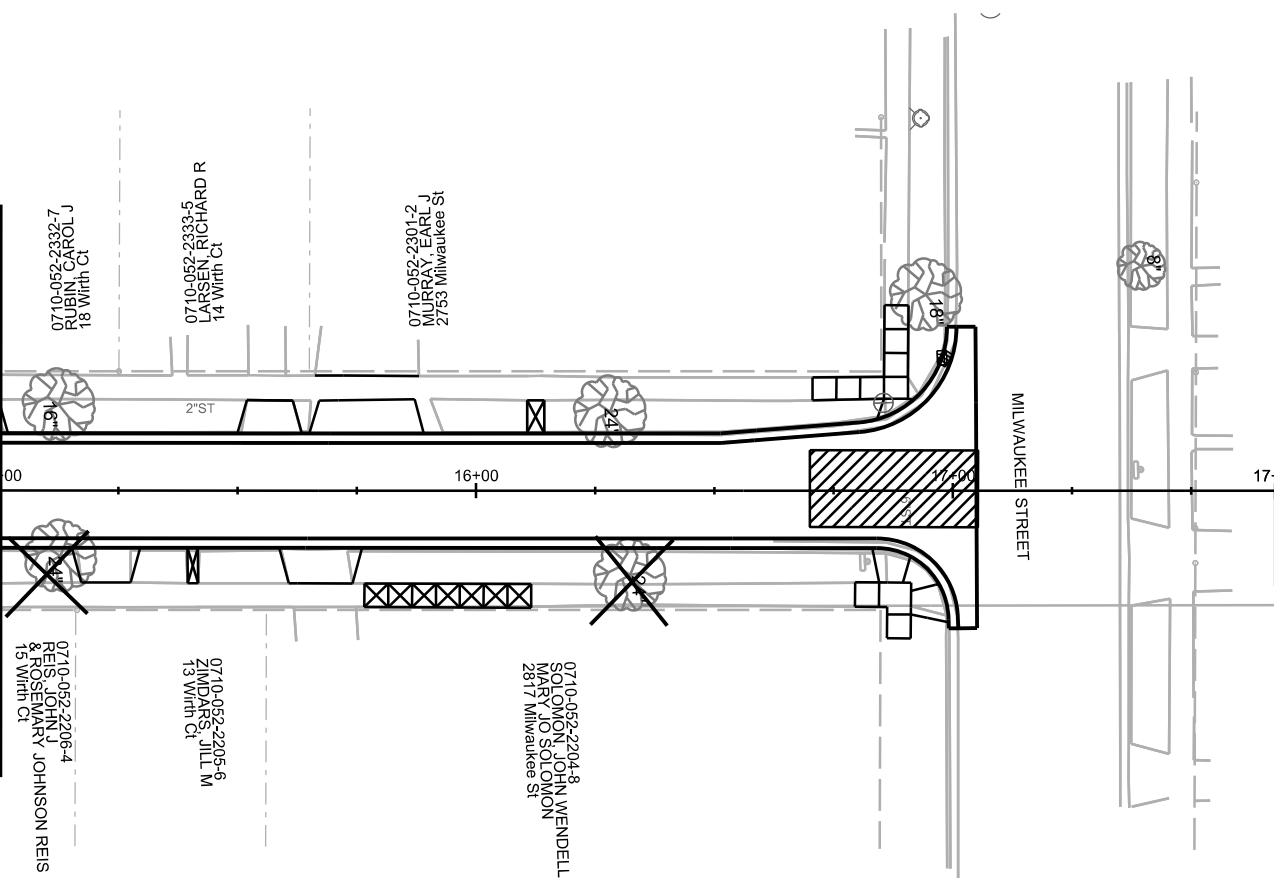
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 15+00.00



	STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
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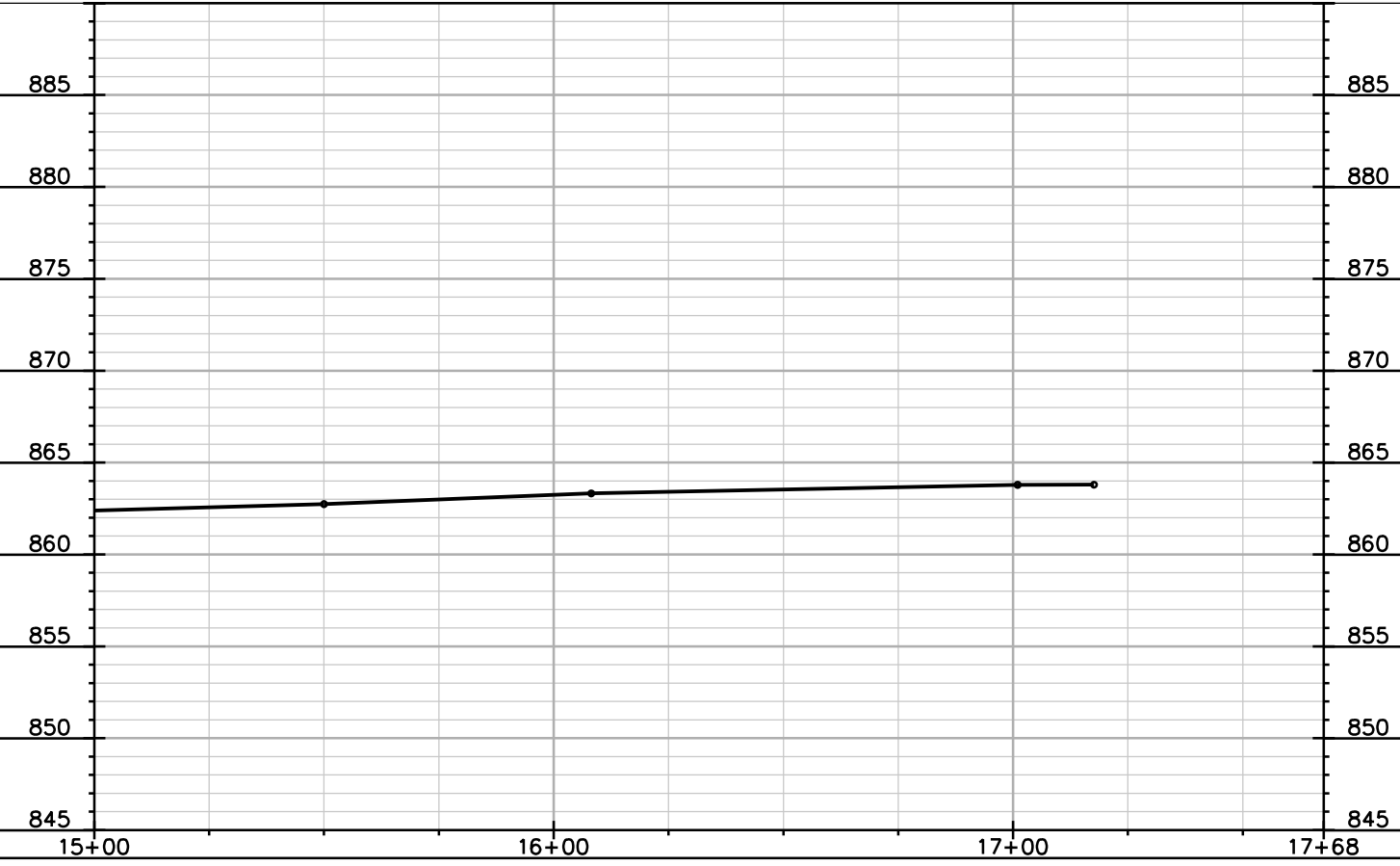
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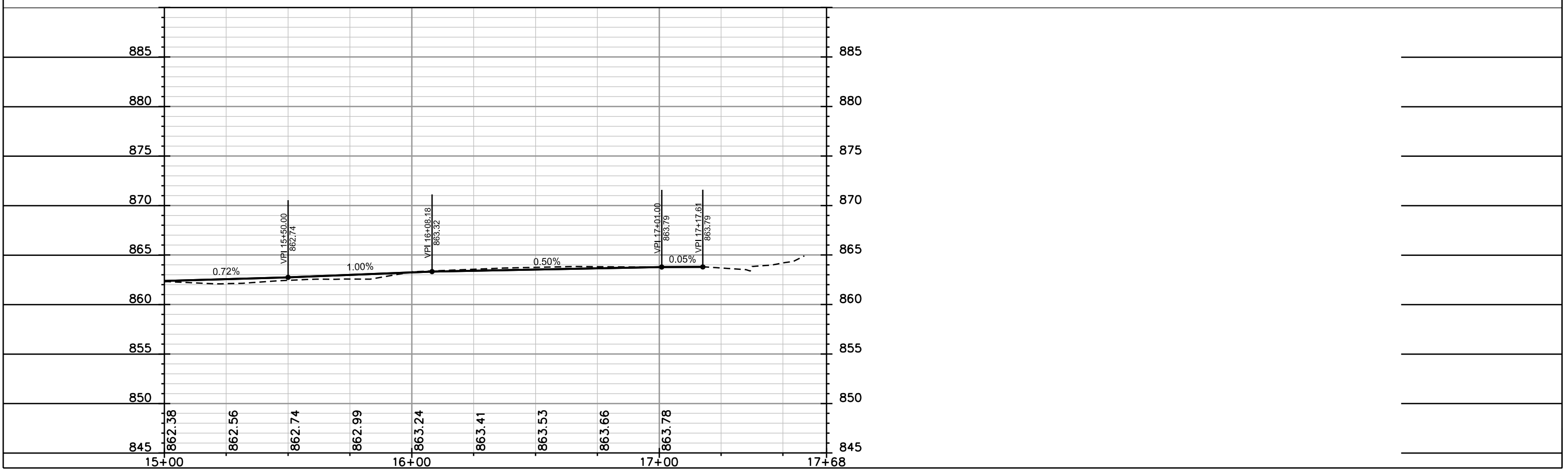
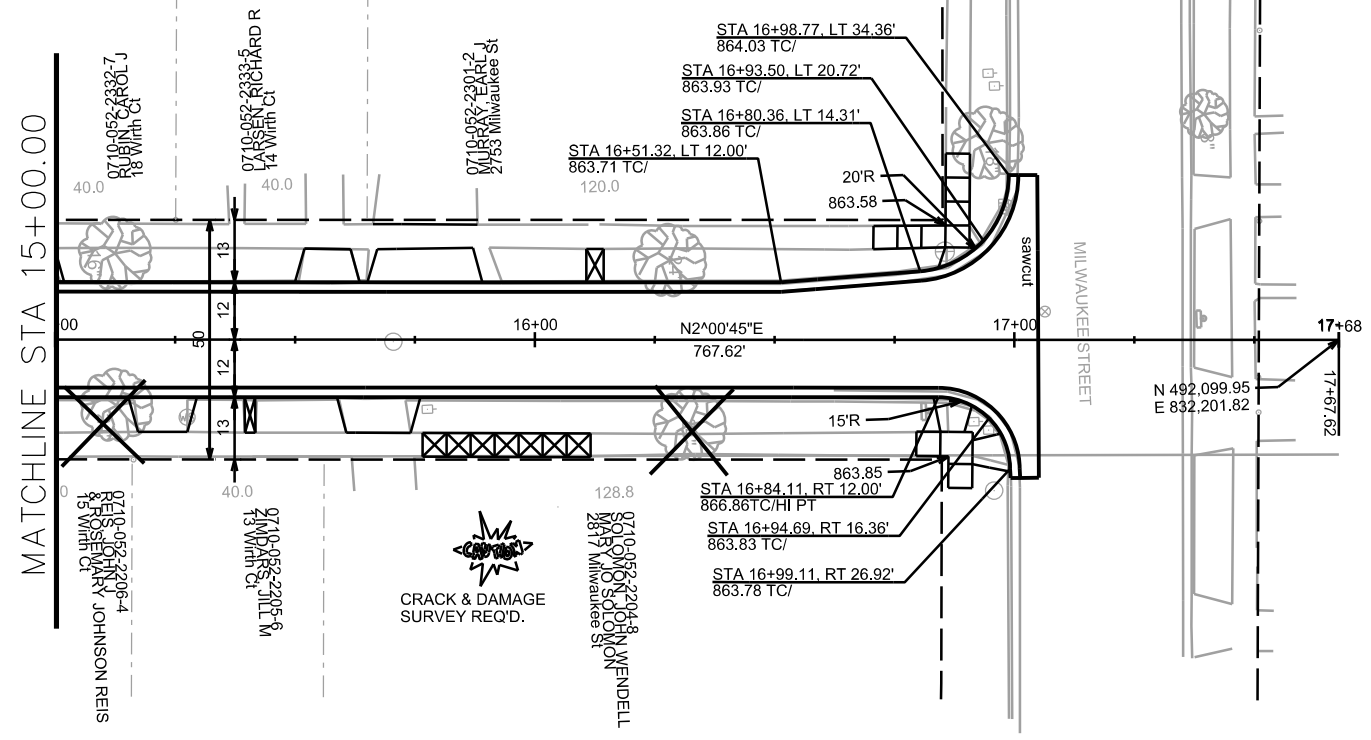
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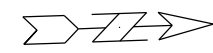
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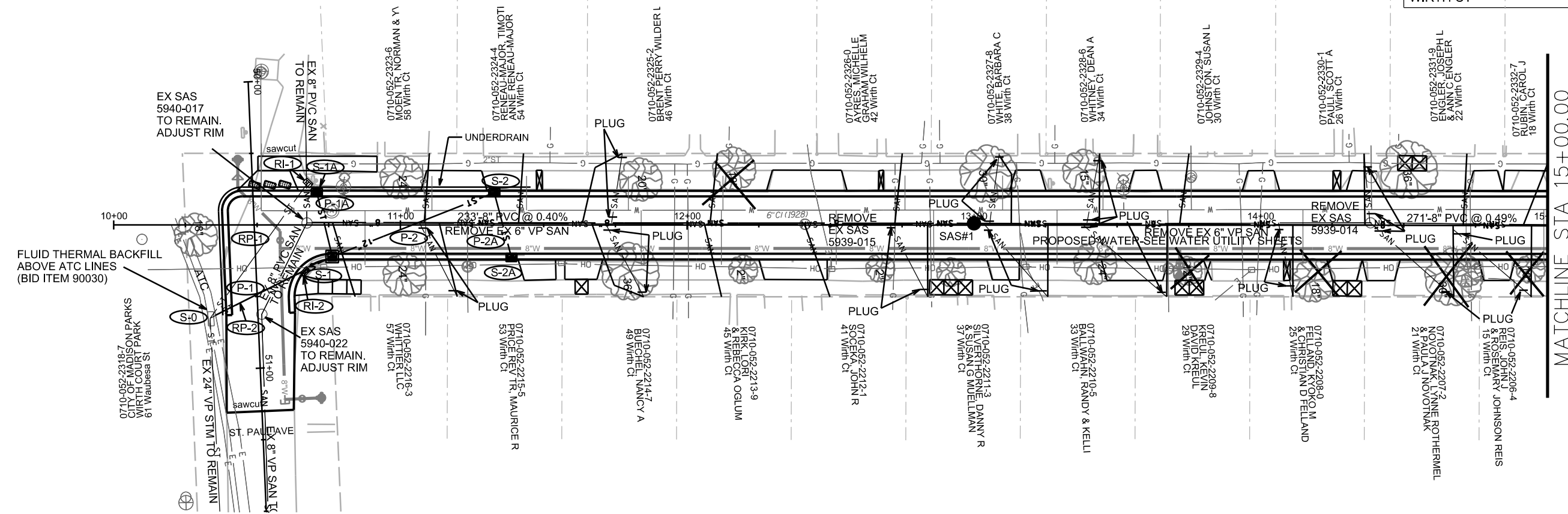
CONTRACTOR SHALL REM & REP
SIDEWALK AS NEEDED FOR LATERALS
(MAX. OF 4 SW SQUARES PER LATERAL)



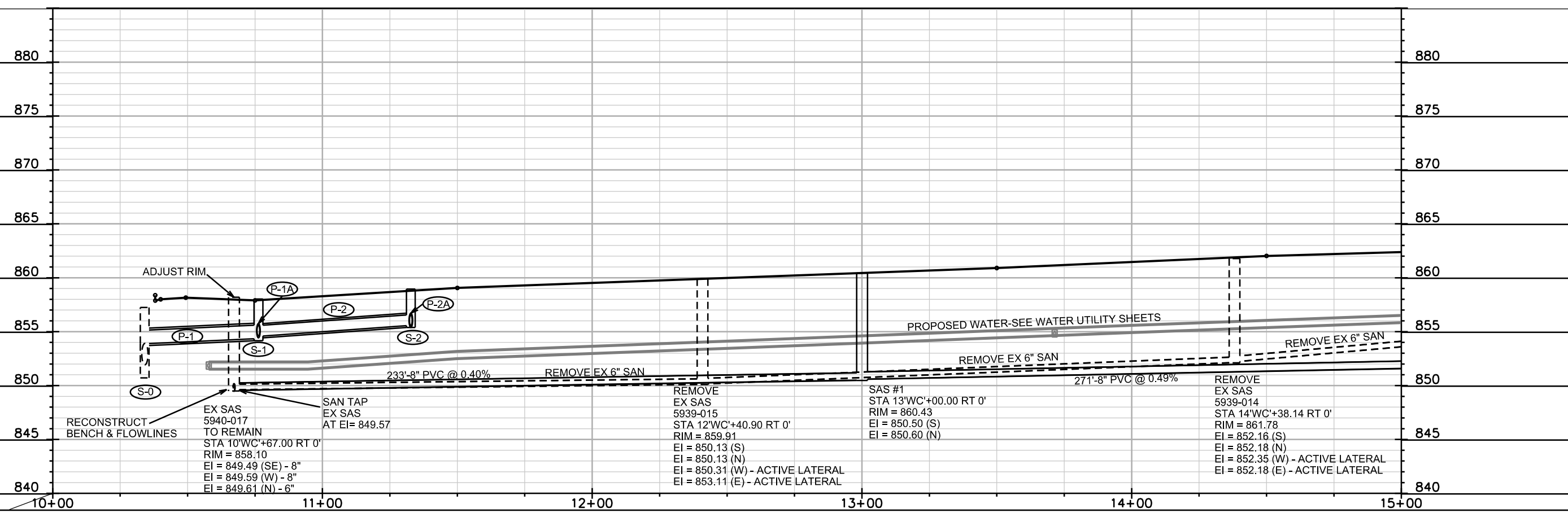
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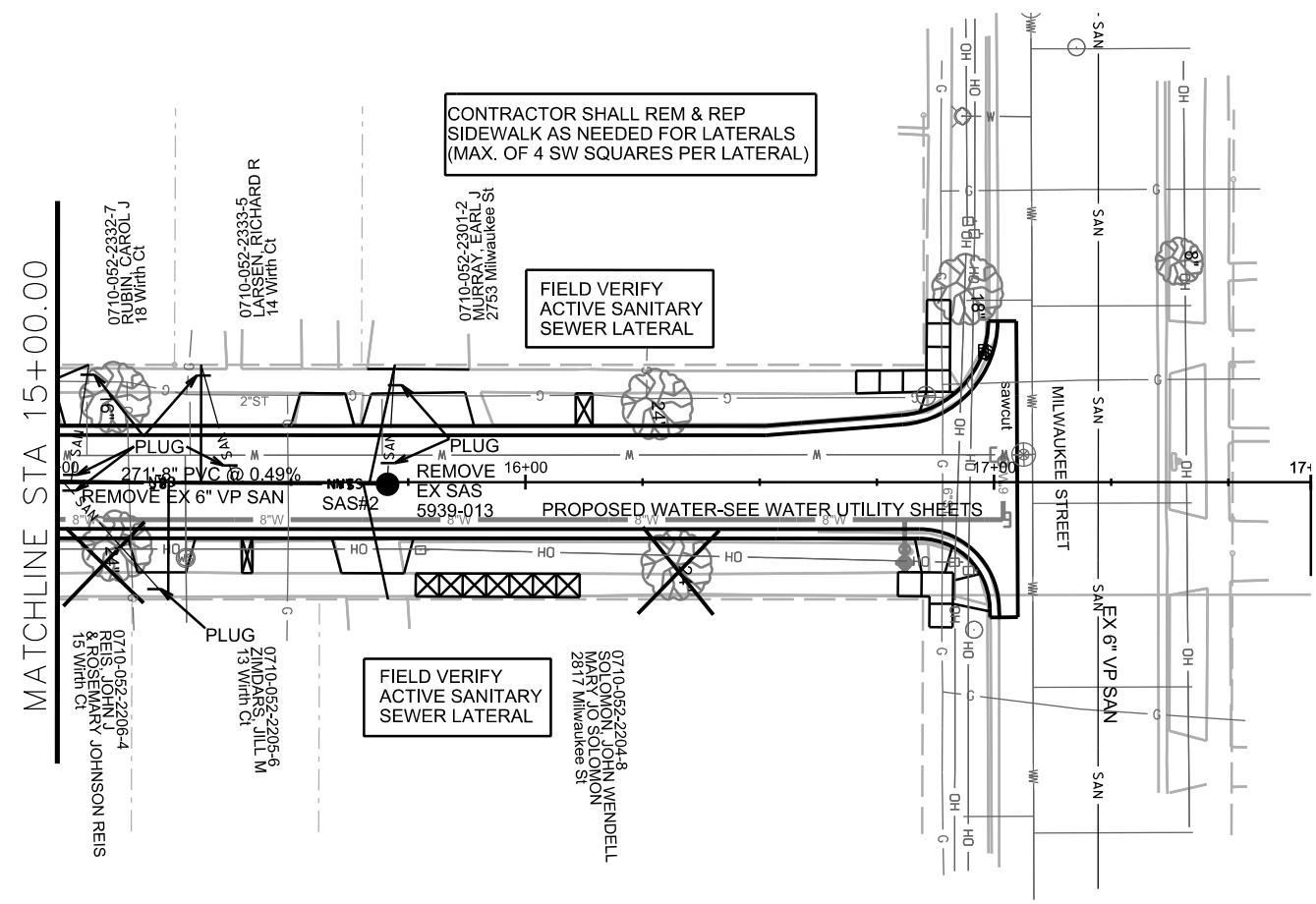
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MATCHLINE STA 15+00.00





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

FIELD VERIFY
ACTIVE SANITARY
SEWER LATERAL

FIELD VERIFY
ACTIVE SANITARY
SEWER LATERAL

MATCHLINE STA 15+00.00

0710-052-2332-7
RUBIN, CAROL J
18 Wirth Ct

0710-052-2333-5
LARSEN, RICHARD R
14 Wirth Ct

0710-052-2904-2
LARS, M
2755 Milwaukee St

0710-052-2204-8
SOLOMON, WENDELL
2817 Milwaukee St

0710-052-2206-4
REIS, JOHN J
& ROSEMARY JOHNSON REIS
15 Wirth Ct

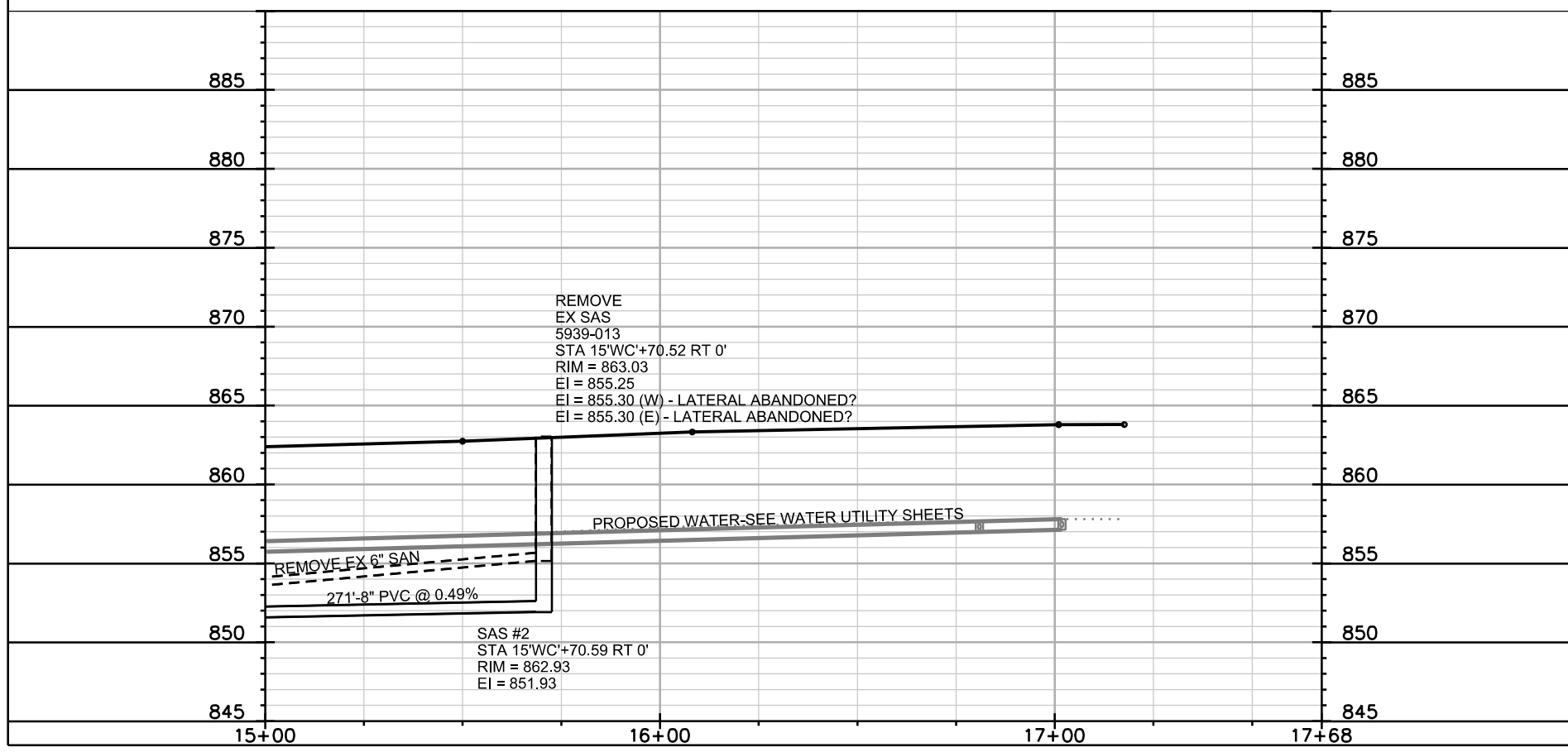
0710-052-2205-6
ZIMMERS, JILL M
13 Wirth Ct

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



REMOVE
EX SAS
5939-013
STA 15'WC'+70.52 RT 0'
RIM = 863.03
EI = 855.25
EI = 855.30 (W) - LATERAL ABANDONED?
EI = 855.30 (E) - LATERAL ABANDONED?

PROPOSED WATER-SEE WATER UTILITY SHEETS

REMOVE EX 6" SAN
271'-8" PVC @ 0.49%

SAS #2
STA 15'WC'+70.59 RT 0'
RIM = 862.93
EI = 851.93

SANITARY SCHEDULE

ALIGNMENT CODES:

"WC"= WIRTH CT

WIRTH CT
PROJECT NO. 53W1515

SHEET NO.
U-3

SANITARY SEWER SCHEDULE CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	13'WC'+00.00	CL	860.43	850.50	9.93	-
SAS#2	15'WC'+70.59	CL	862.93	851.93	11.00	-

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
EX SAS	SAS#1	849.57	850.50	233	0.40%	8"	SDR-35	-
SAS#1	SAS#2	850.60	851.93	271	0.49%	8"	SDR-35	-

SANITARY SEWER STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
5939-015	12'WC'+40.90	CL	859.91	850.13	9.78	-
5939-014	14'WC'+38.14	CL	861.78	852.16	9.62	-
5939-013	15'WC'+70.52	CL	863.03	855.25	7.78	-

SANITARY SEWER PIPE REMOVALS

REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
5940-017	5939-015	173	N	6	VP	-
5939-015	5939-014	195	N	6	VP	-
5939-014	5939-013	130	N	6	VP	-

ADJUST SANITARY STRUCTURES

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	EX. RIM	PROP. RIM	EX. ADJ (IN)	NOTES
5940-017	10'WC'+67.00	CL	858.10	857.97	8.00	EXISTING SPECTRA SHIELD LINED MANHOLE
5940-022	10'WC'+51.60	RT-30.96	857.61	857.69		-

STORM SEWER SCHEDULE

WIRTH CT PROJECT NO. 53W1515 MUNIS		SHEET NO. U-4
STORM SEWER SCHEDULE		CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-0	50+81.96	RT-16.70	TAP	-	853.90	-	TAP EX AS 5940-039
S-1	10+66.69	RT-11.50	3X3 SAS	858.14	854.34	3.80	W/ R-3067-7004-V
S-1A	10+70.60	LT-11.50	H INLET	858.19	854.71	3.48	LP; W/ R-3067-7004-VB
S-2	11+32.75	LT-11.50	H INLET	858.95	855.55	3.40	W/ R-3067-7004-V
S-2A	11+38.88	RT-11.50	H INLET	859.06	855.66	3.40	W/ SALVAGED CASTING

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	PLAN LGTH (FT)	PIPE LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-0	S-1	47	44	853.90	854.34	1.00%	15"	RCP	-
P-1A	S-1	S-1A	23	20	854.59	854.71	0.59%	12"	RCP	-
P-2	S-1	S-2	61	57	854.59	855.55	1.67%	12"	RCP	-
P-2A	S-2	S-2A	23	21	855.55	855.66	0.52%	12"	RCP	-

STORM SEWER STRUCTURE REMOVALS

STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RI-1	10+68.00	LT-15.30	H INLET	SALVAGE CASTING
RI-2	10+67.46	RT-15.93	TUB INLET	-

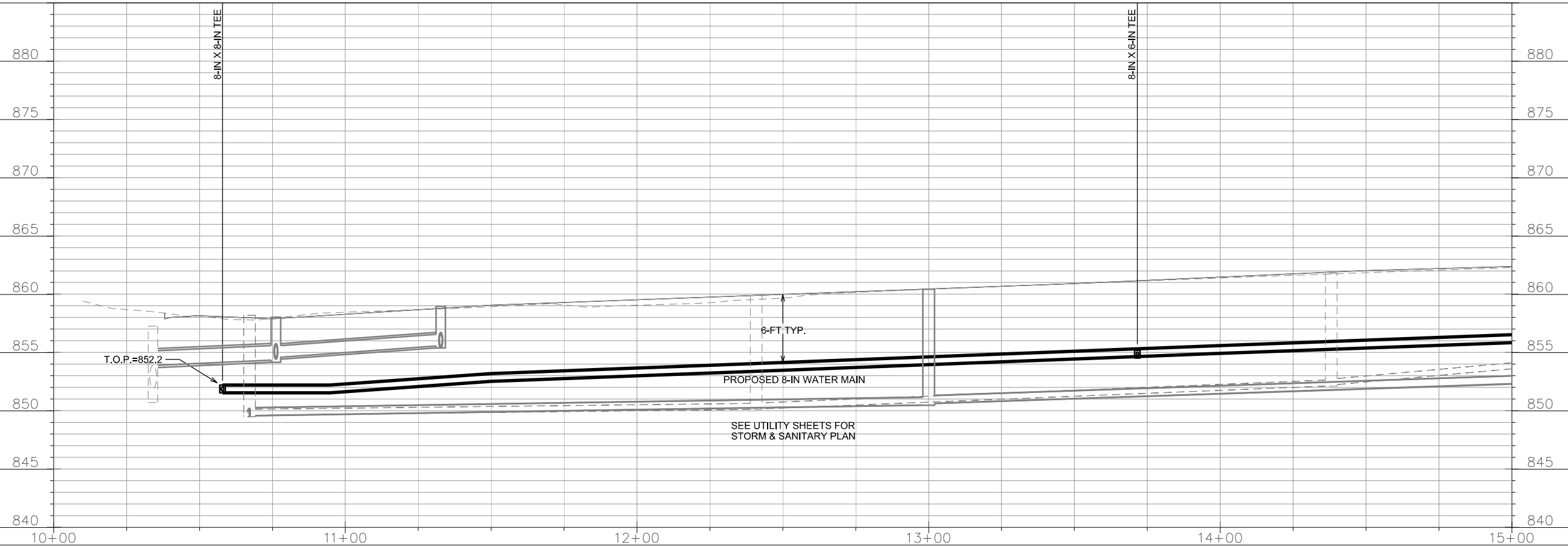
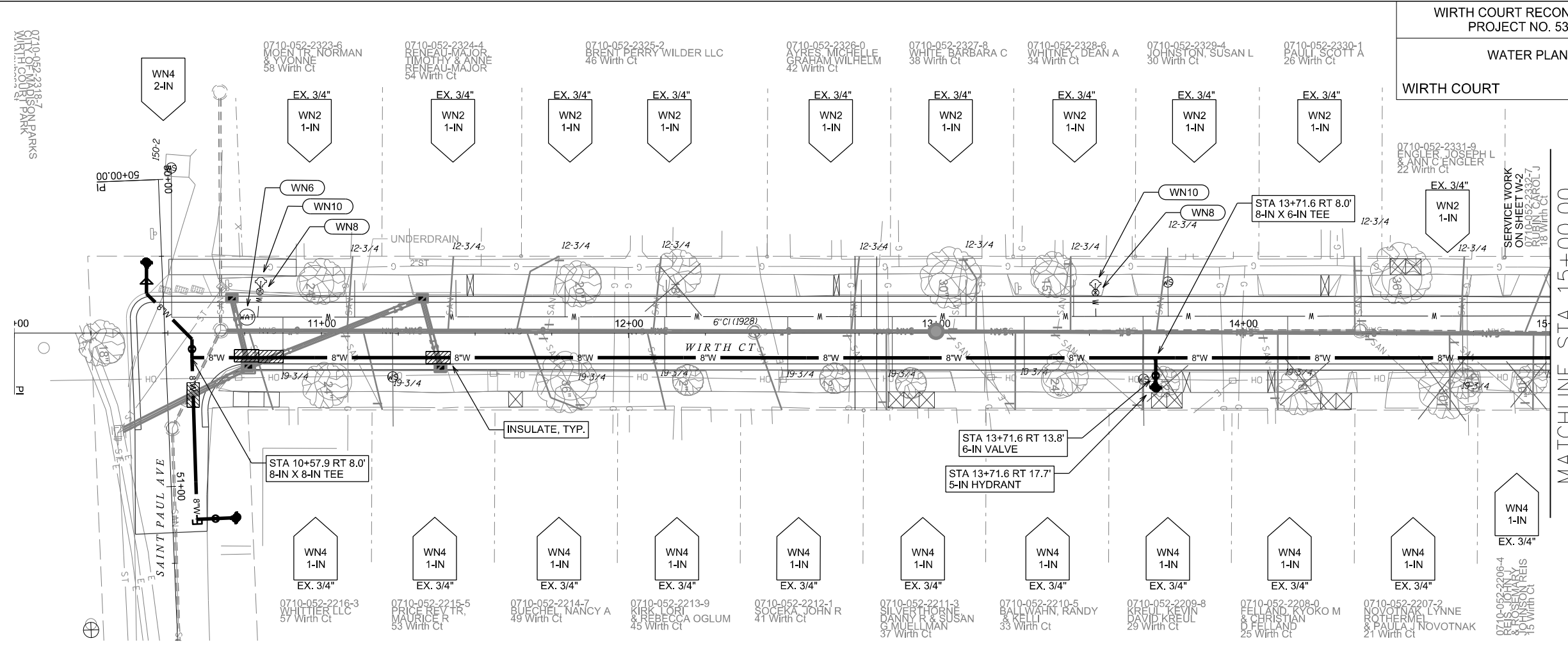
STORM SEWER PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	S-0	RI-1	58	Y	12"	VP	-
RP-2	S-0	RI-2	37	N	12"	VP	-

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
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

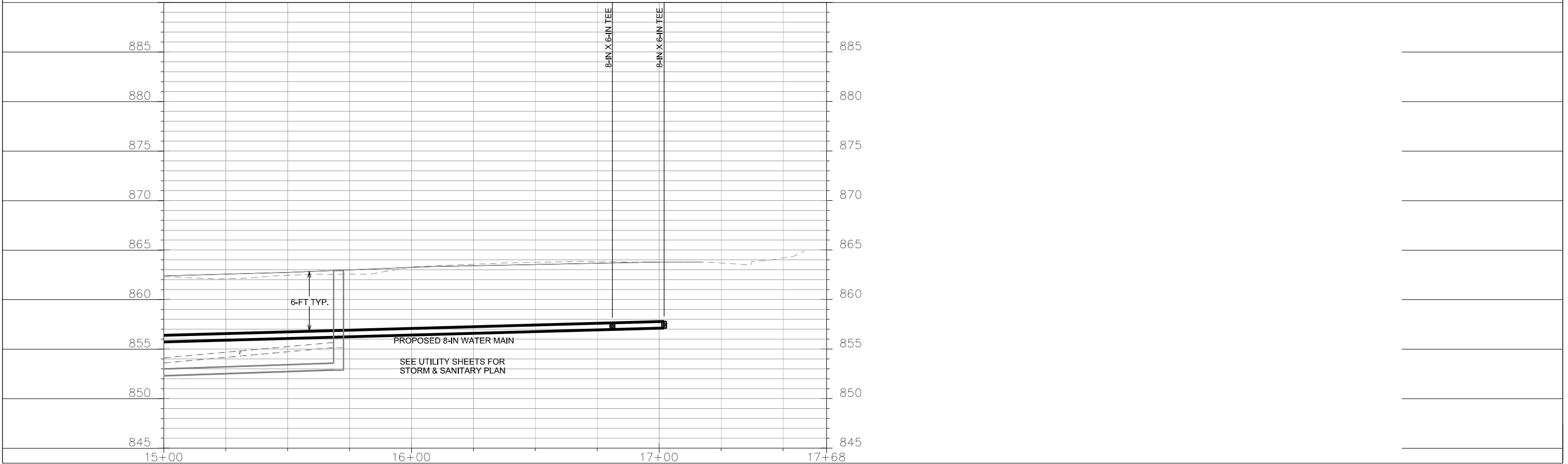
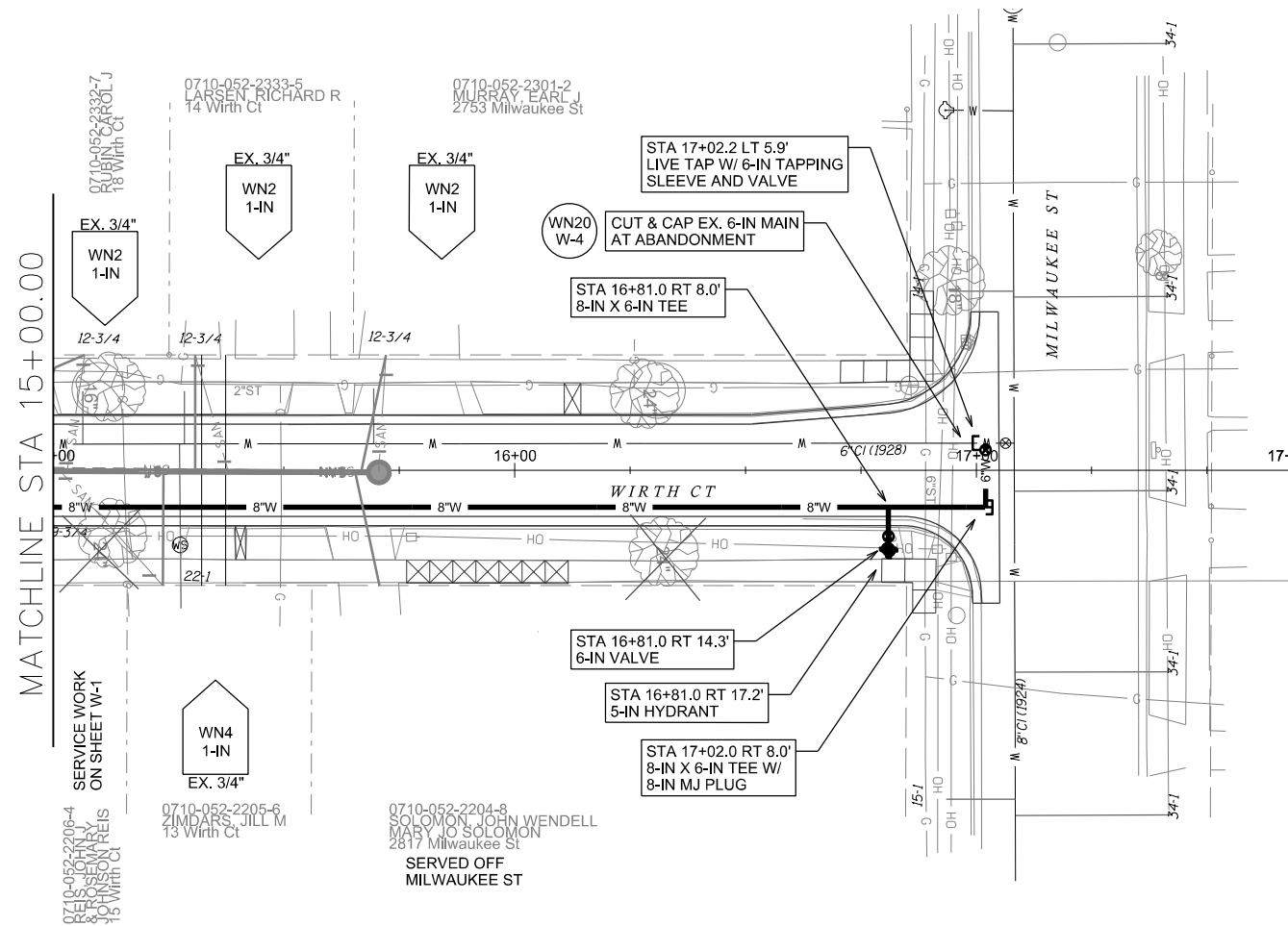


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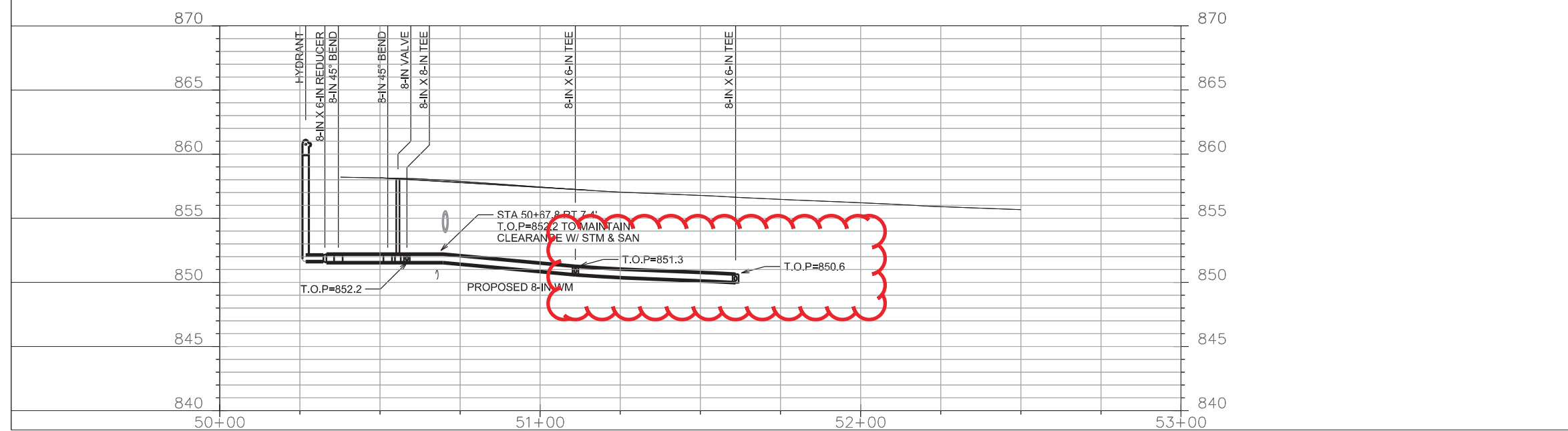
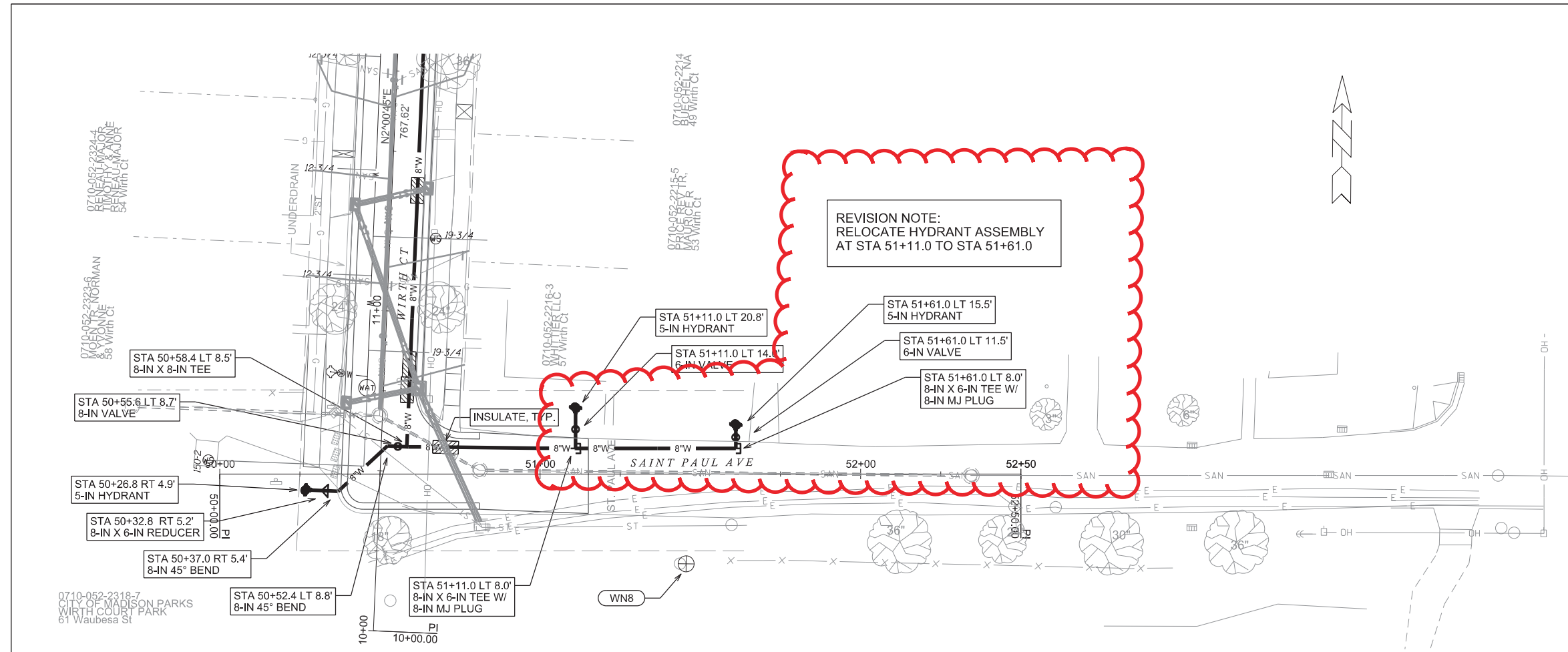
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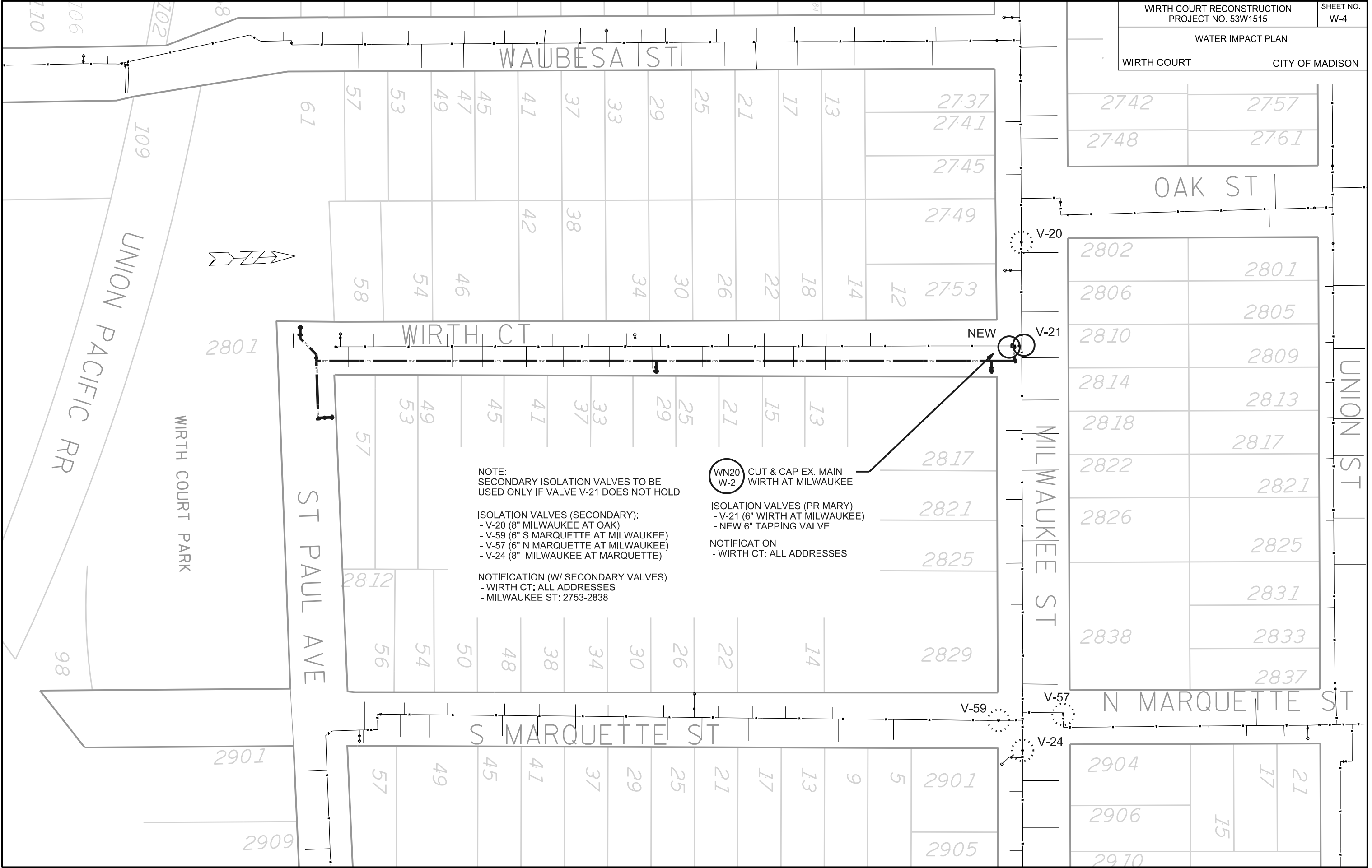
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NOTE:
SECONDARY ISOLATION VALVES TO BE
USED ONLY IF VALVE V-21 DOES NOT HOLD

- ISOLATION VALVES (SECONDARY):
- V-20 (8" MILWAUKEE AT OAK)
 - V-59 (6" S MARQUETTE AT MILWAUKEE)
 - V-57 (6" N MARQUETTE AT MILWAUKEE)
 - V-24 (8" MILWAUKEE AT MARQUETTE)

- NOTIFICATION (W/ SECONDARY VALVES)
- WIRTH CT: ALL ADDRESSES
 - MILWAUKEE ST: 2753-2838

WN20 CUT & CAP EX. MAIN
W-2 WIRTH AT MILWAUKEE

- ISOLATION VALVES (PRIMARY):
- V-21 (6" WIRTH AT MILWAUKEE)
 - NEW 6" TAPPING VALVE

- NOTIFICATION
- WIRTH CT: ALL ADDRESSES

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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

CONSTRUCTION NOTES:

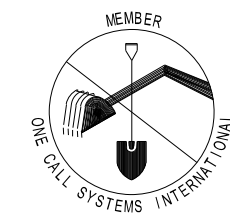
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE 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 NOTIFICATION INFORMATION

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

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|-------------------------|---|
| 60-FT - 6-IN PIPE | 1 - 6-IN MJ CAP |
| 740-FT - 8-IN PIPE | 2 - 8-IN MJ PLUG |
| 920-FT - POLYWRAP | 4 - 5-IN HYDRANT |
| 3 - 6-IN VALVE & BOX | 32 - LF 2-IN FOAM INSULATION |
| 1 - 8-IN VALVE & BOX | COPPER SERVICE TUBING & COUPLINGS (AS REQ'D) |
| 4 - 8-IN X 6-IN TEE | HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQ'D) |
| 1 - 8-IN X 8-IN TEE | |
| 2 - 8-IN 45° BEND | |
| 1 - 8-IN X 6-IN REDUCER | |

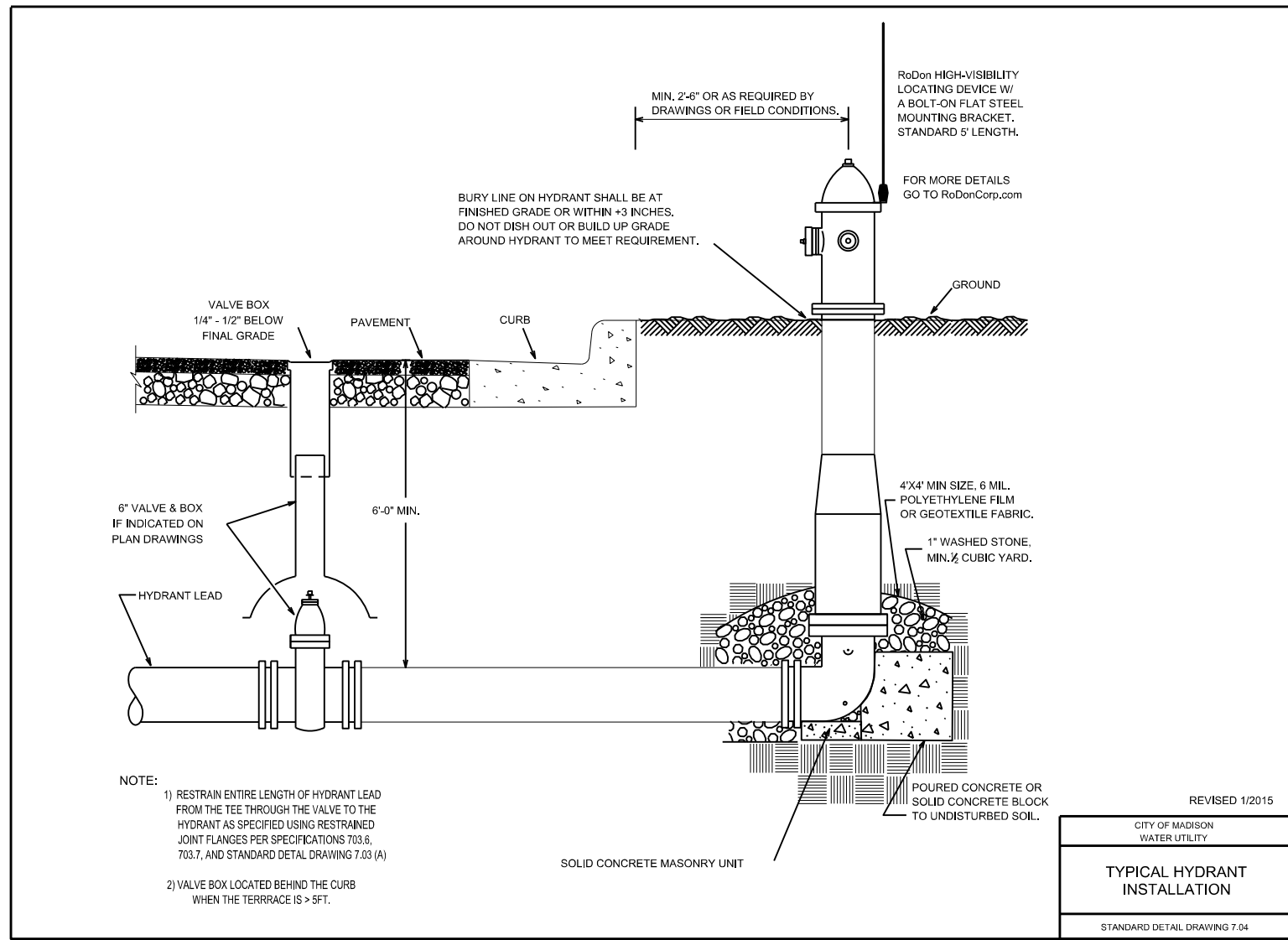
ESTIMATE OF MATERIALS SUPPLIED BY CITY:

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

ESTIMATE OF MATERIALS SALVAGED:

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



REVISED 1/2015

CITY OF MADISON
WATER UTILITY

**TYPICAL HYDRANT
INSTALLATION**

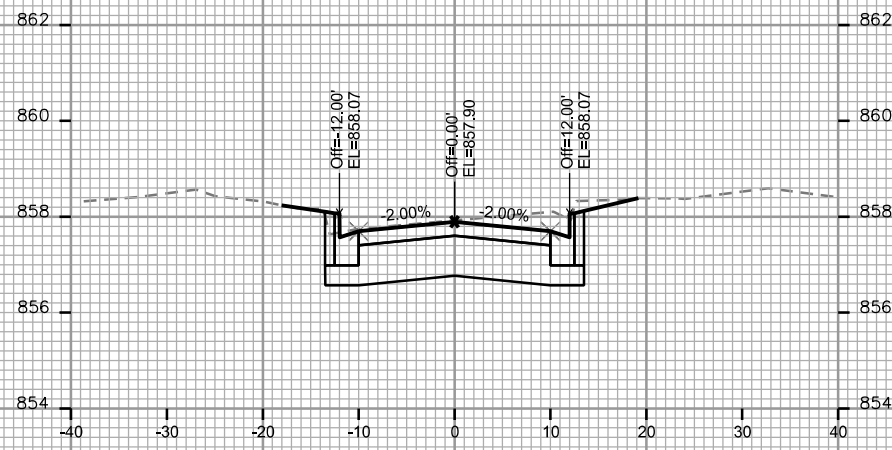
STANDARD DETAIL DRAWING 7.04

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

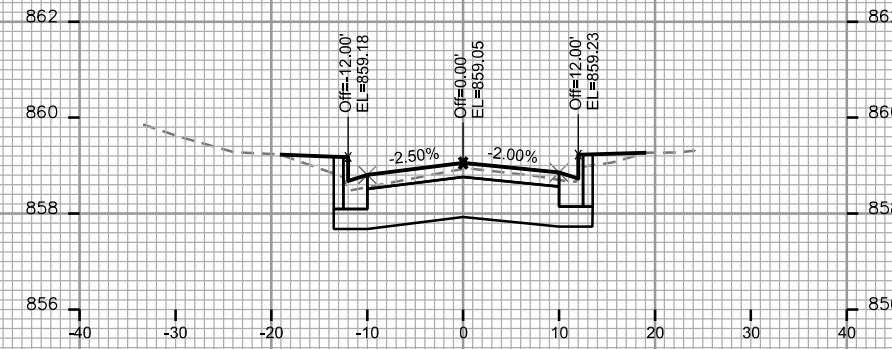
CROSS SECTIONS

WIRTH COURT

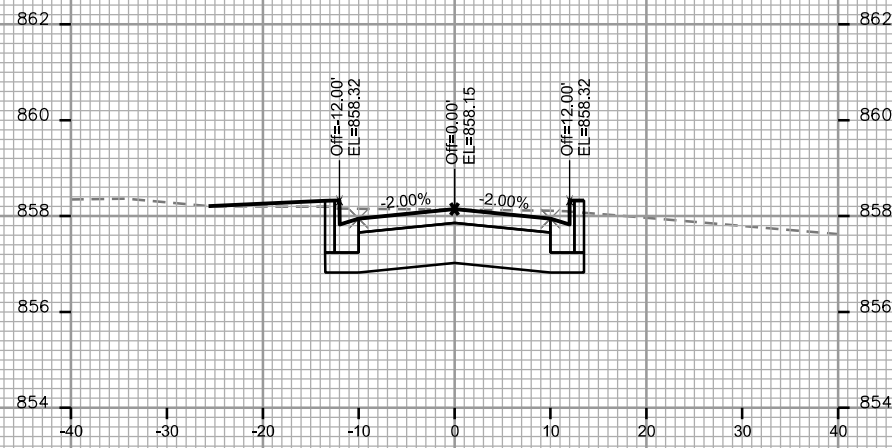
CITY OF MADISON



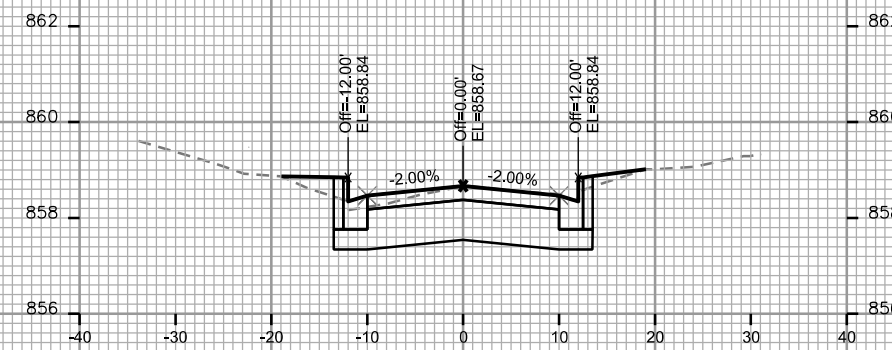
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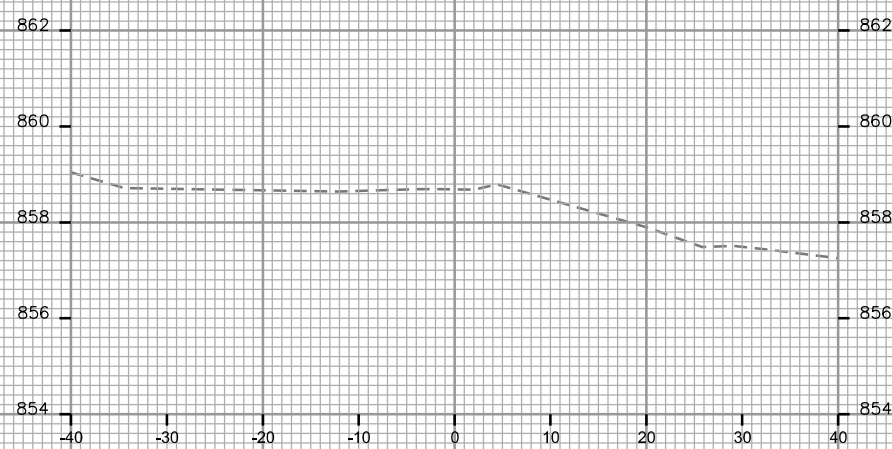
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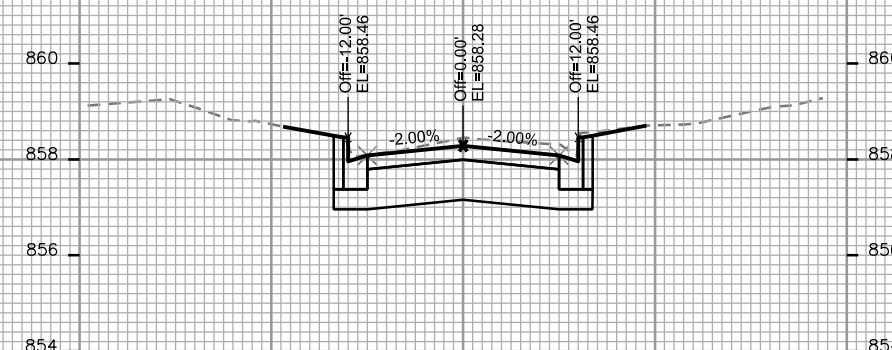
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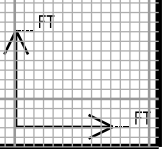
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STA. 10+25



STA. 11+00



PLOT SCALE: _____

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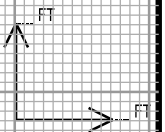
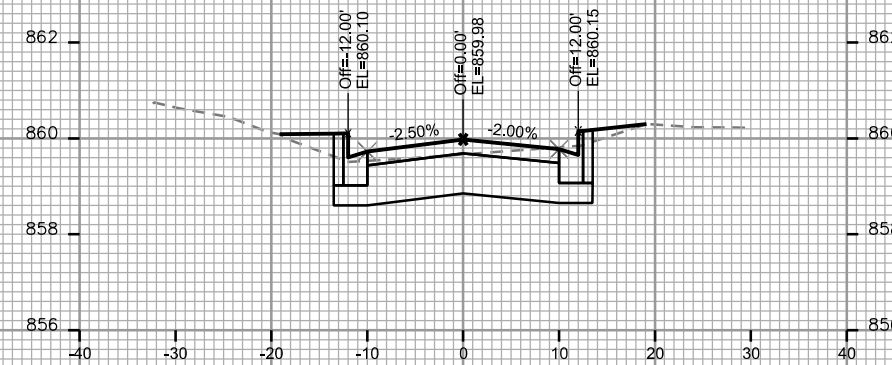
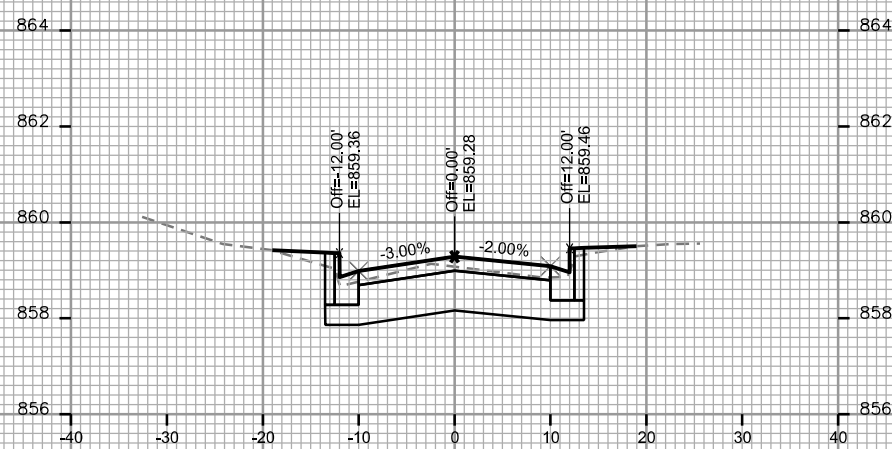
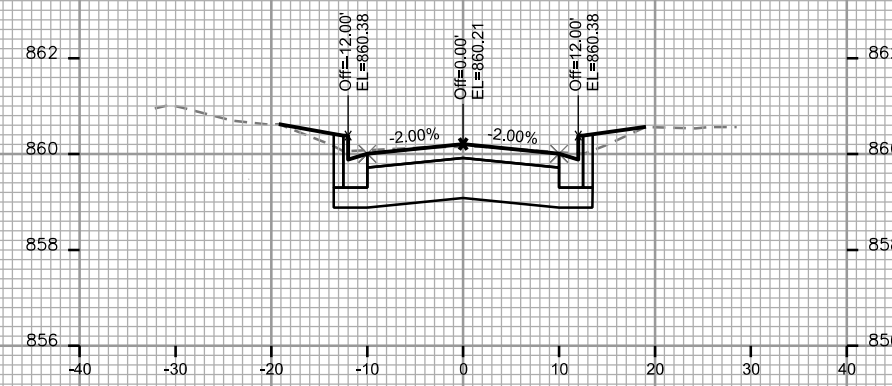
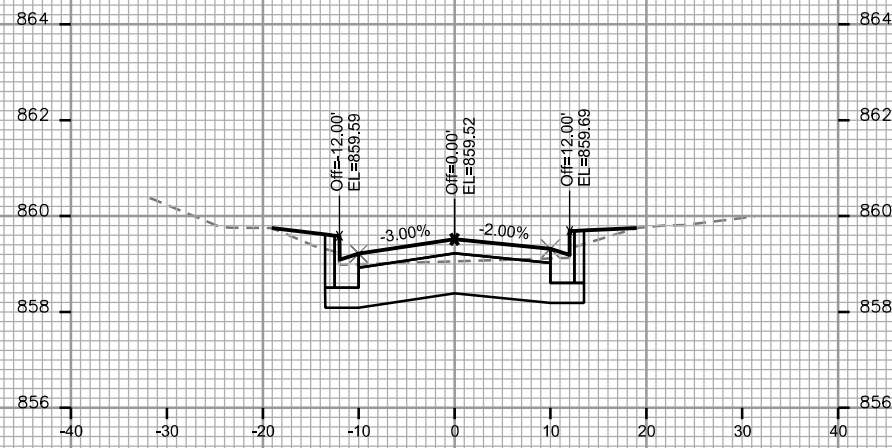
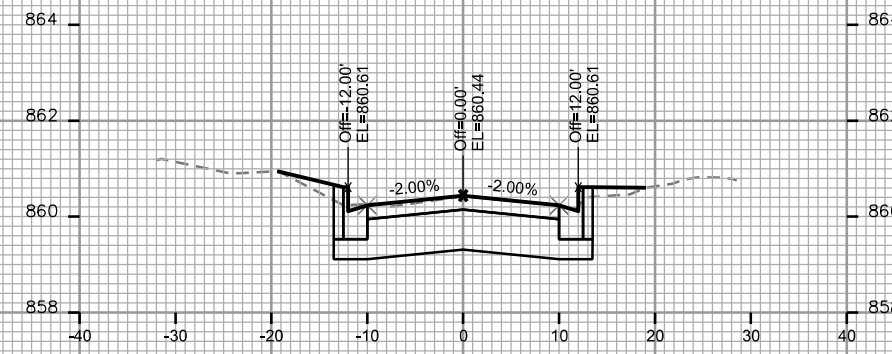
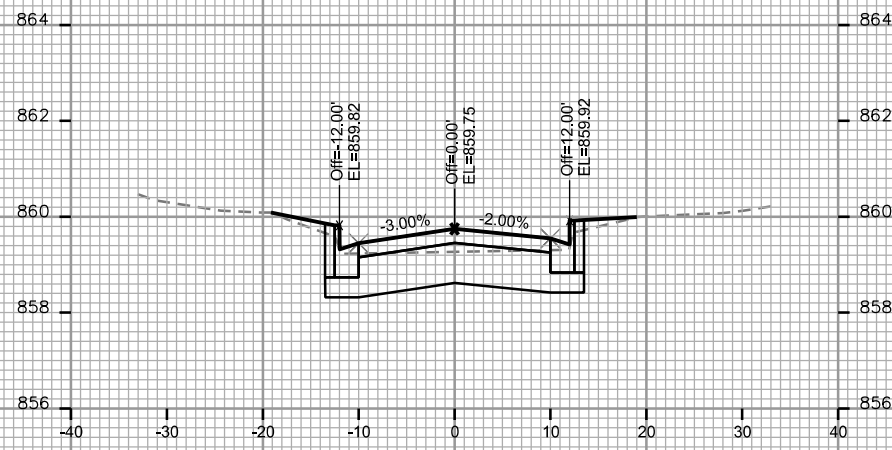
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ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

WIRTH COURT

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

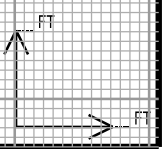
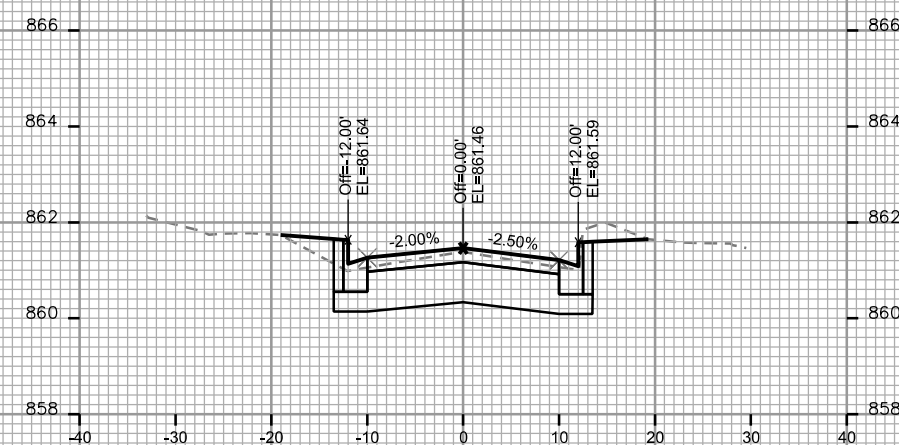
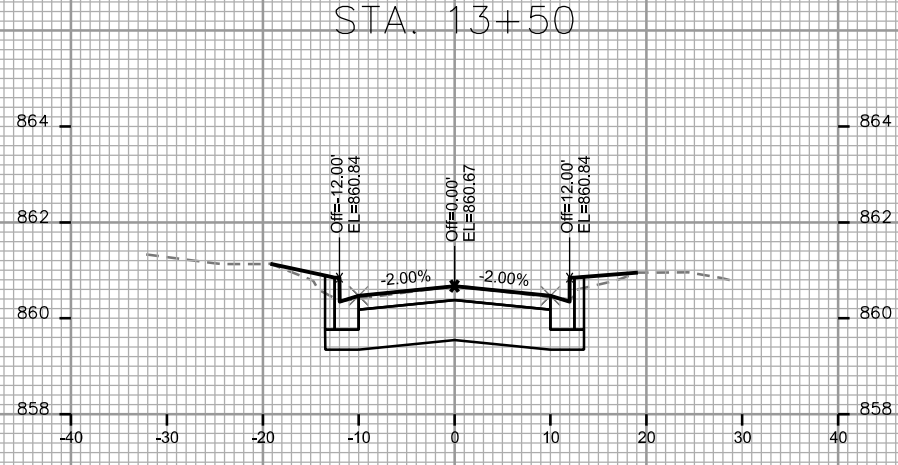
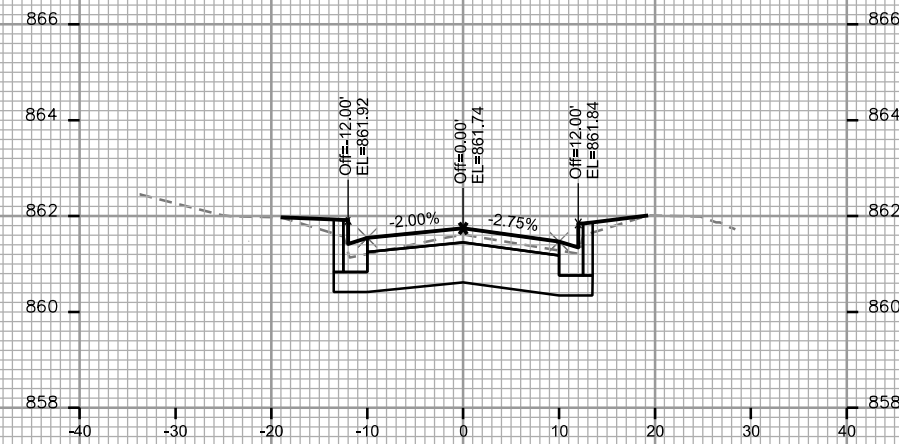
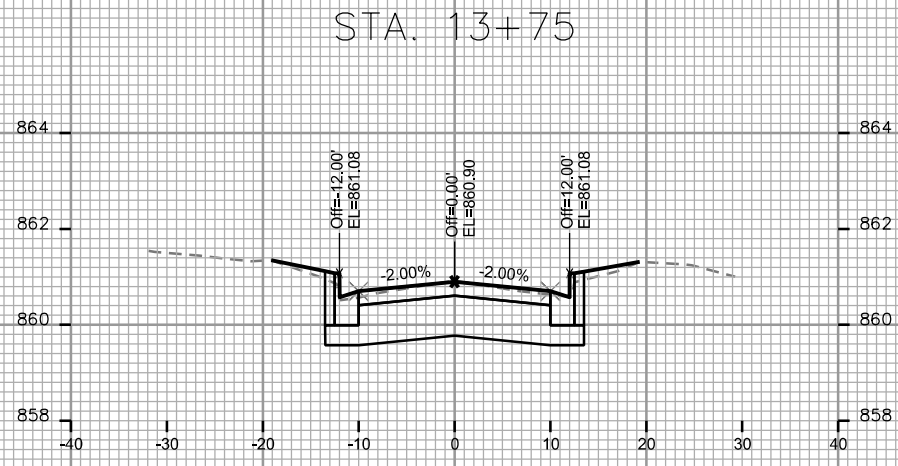
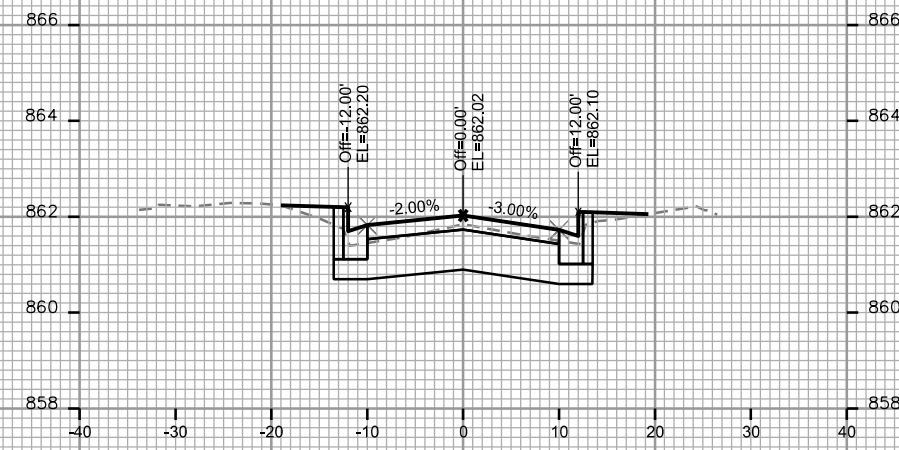
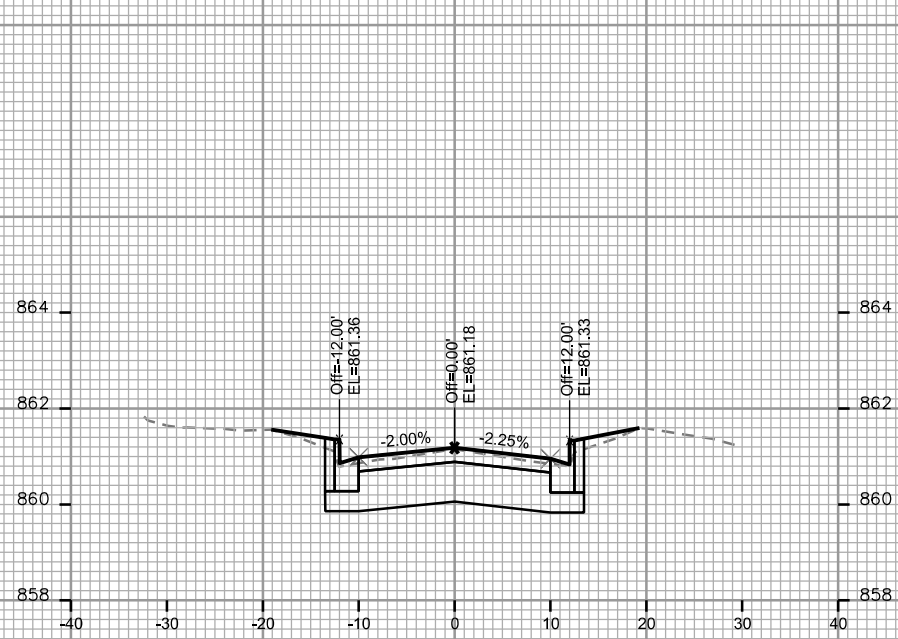
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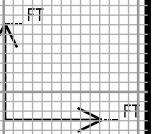
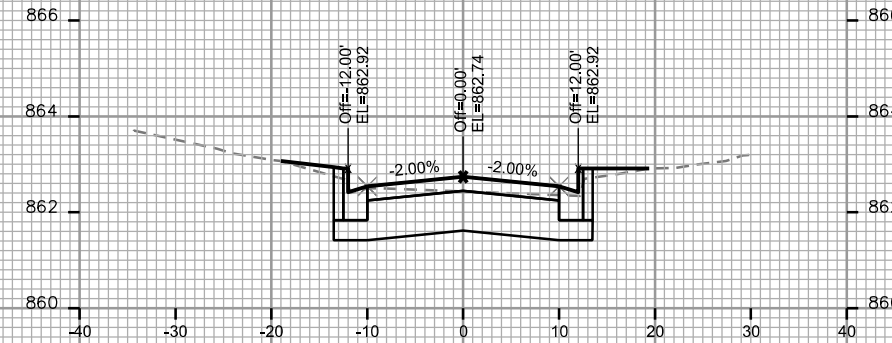
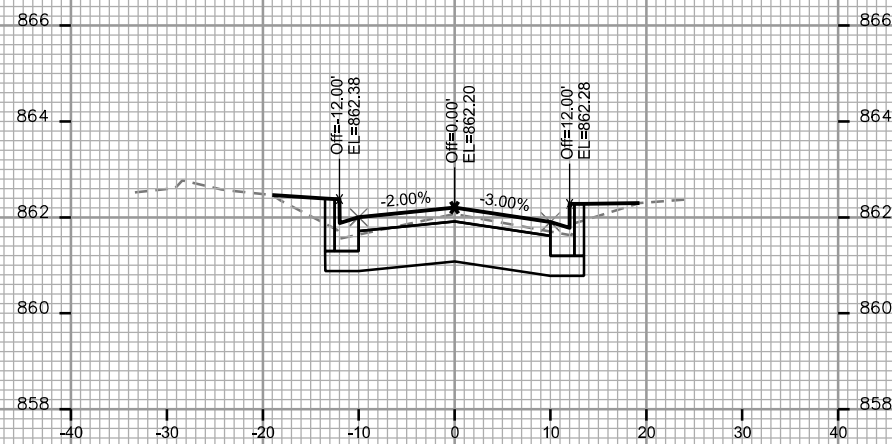
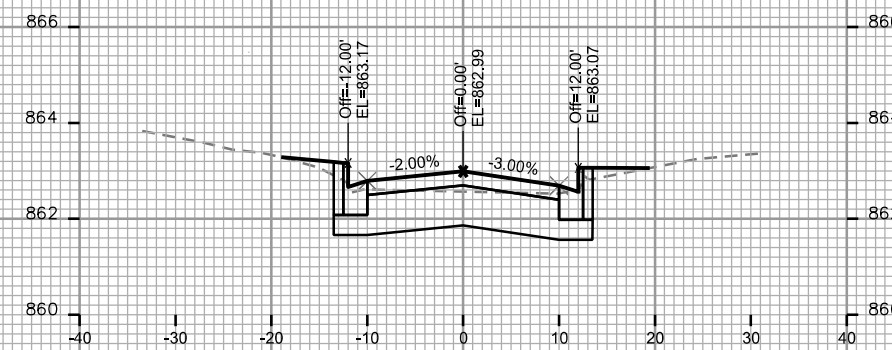
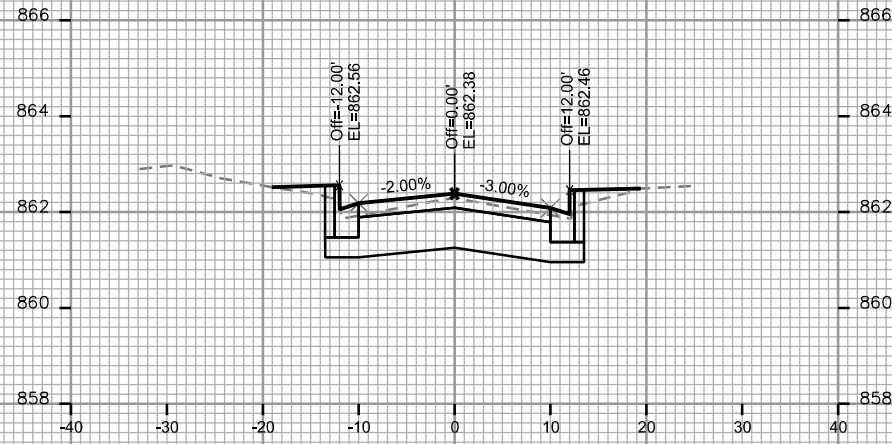
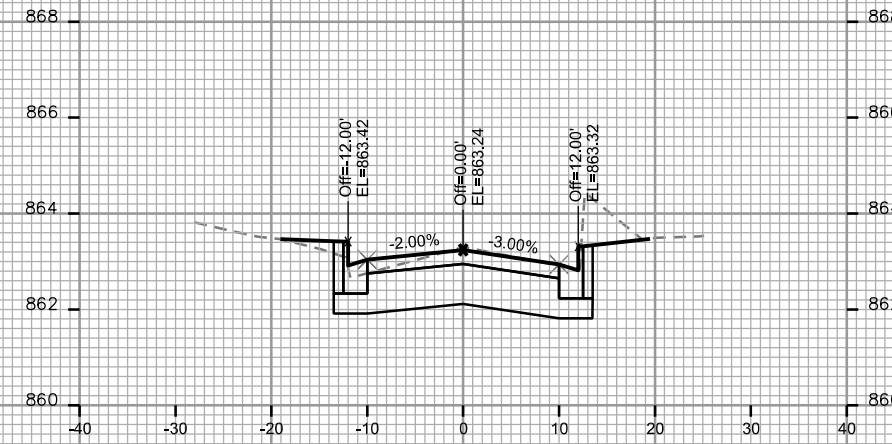
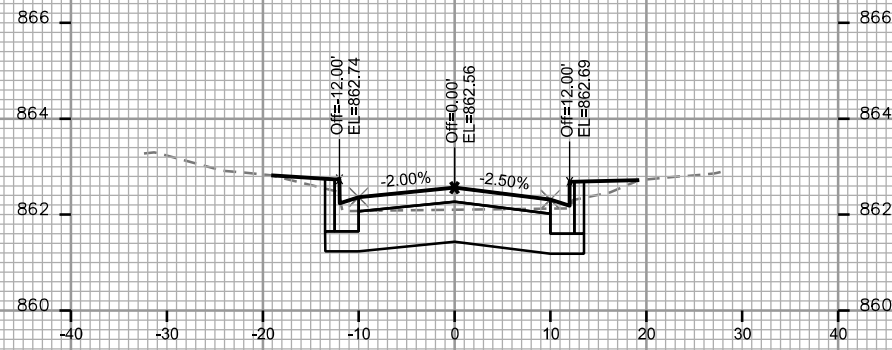
CITY OF MADISON

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WIRTH COURT

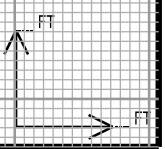
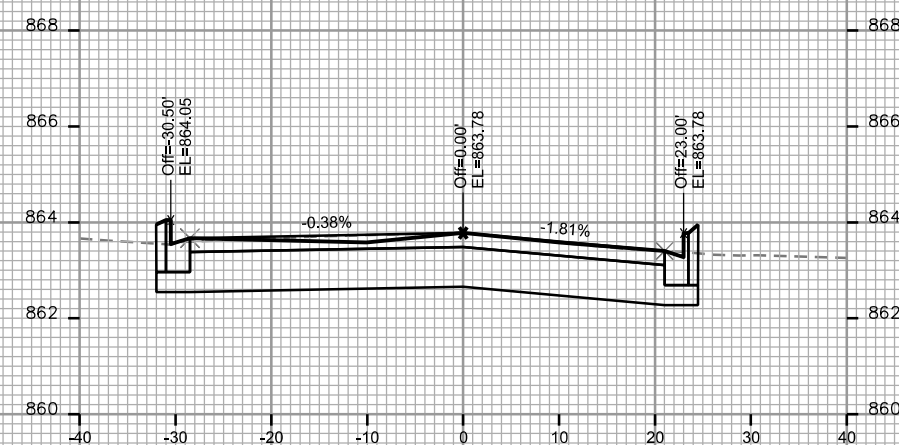
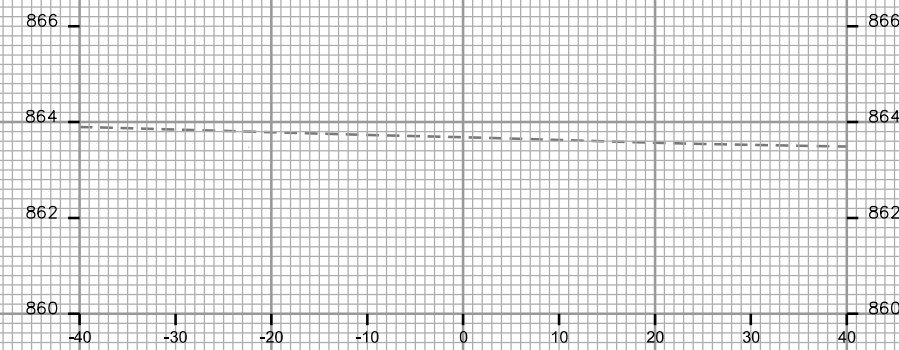
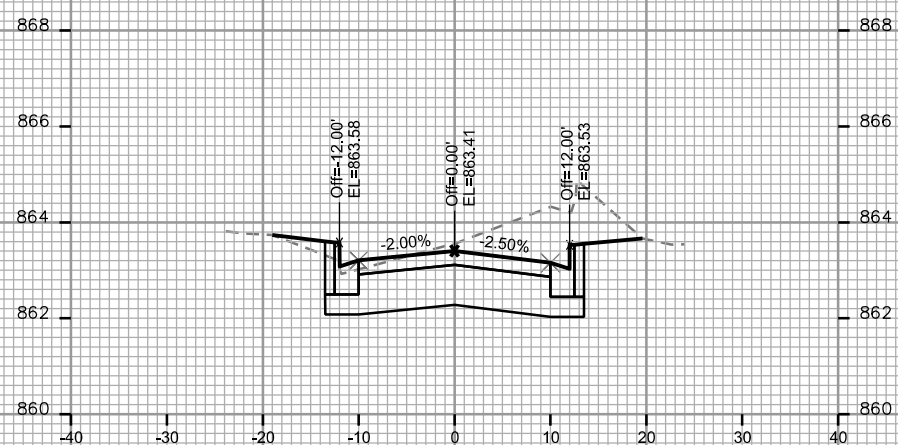
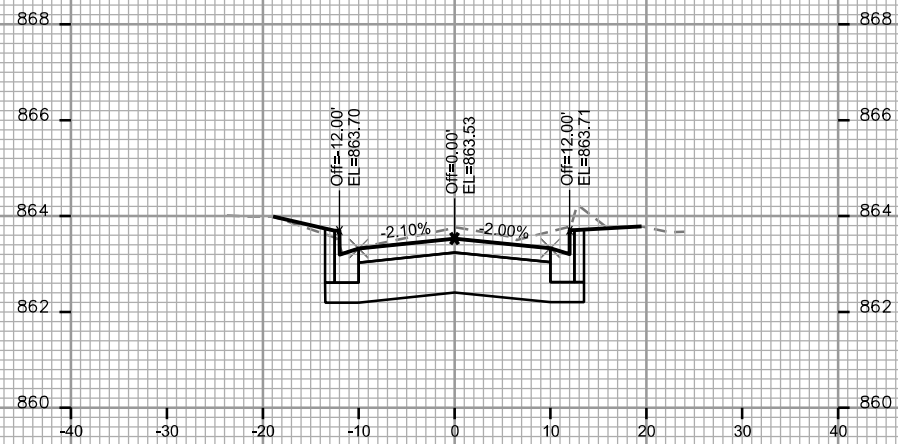
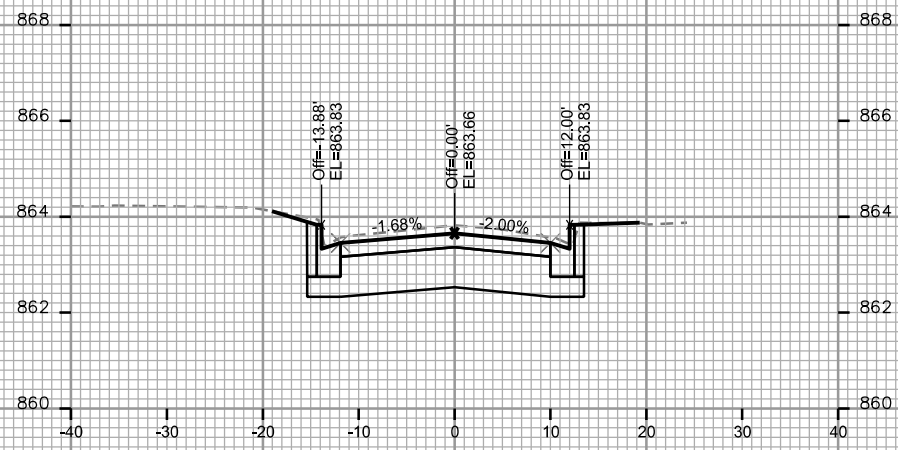
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CROSS SECTIONS

ST. PAUL AVENUE

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

