

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE
DI	DETAILS
EC1-EC3	EROSION CONTROL PLANS
P1-P3	STREET PLAN & PROFILES
U1-U3	UTILITY PLAN & PROFILES
U4	SANITARY SEWER SCHEDULES
W1-W3	WATER PLAN & PROFILES
W4	WATER SYSTEM IMPACT PLAN
W5	WATER ESTIMATE OF MATERIALS
X1-X8	CROSS SECTIONS

CENTER AVENUE AND SOMMERS AVENUE RECONSTRUCTION ASSESSMENT DISTRICT-2015

CITY PROJECT NO. 53W1836 MUNIS NO. 10205

CITY CONTRACT NO. 7451

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	
STORM SEWER	
SANITARY SEWER	
WATER	
OVERHEAD ELECTRIC	
POWER POLE	
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

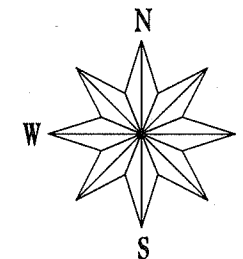
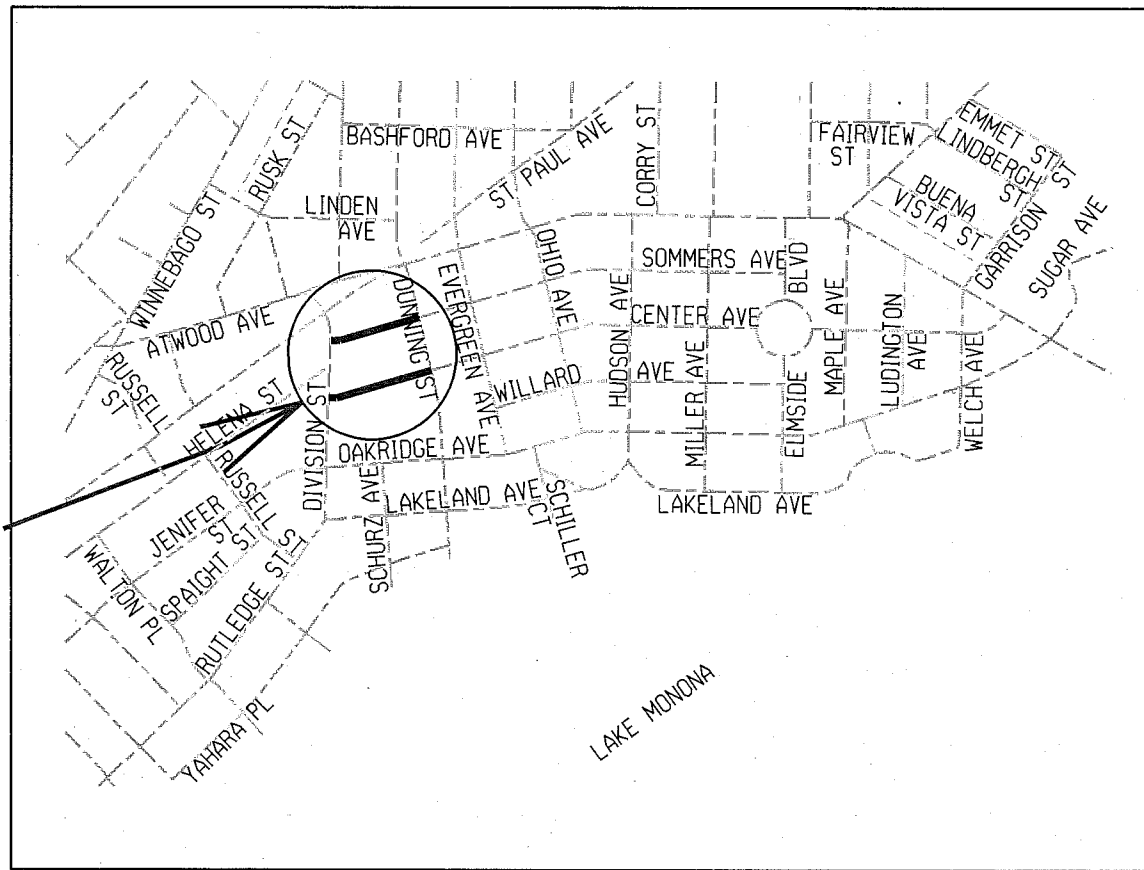
CONSTRUCTION PROJECT LOCATION

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)..... 970 C.Y.
 ESTIMATED UNDISTRIBUTED UNDERCUT..... 158 C.Y.
 TOTAL UNCLASSIFIED EXCAVATION CUT..... 1128 C.Y.

PUBLIC IMPROVEMENT PROJECT APPROVED

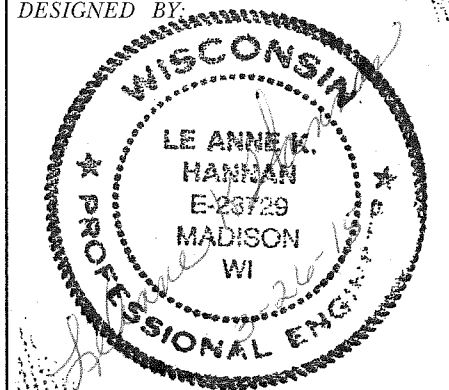
MARCH 17, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

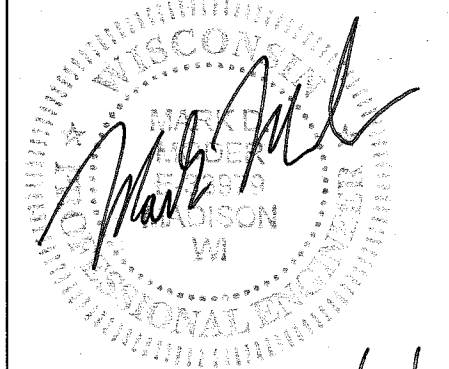
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

for City Engineer Date 3-27-15

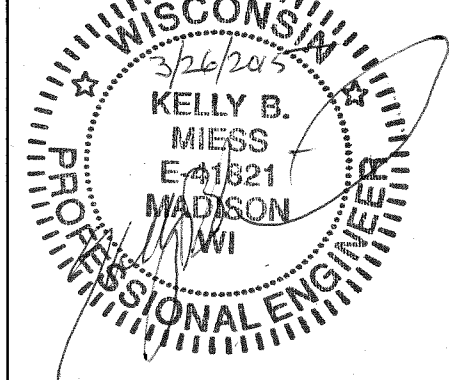
STREET DESIGNED BY:



SANITARY SEWER DESIGNED BY:



WATER DESIGNED BY:

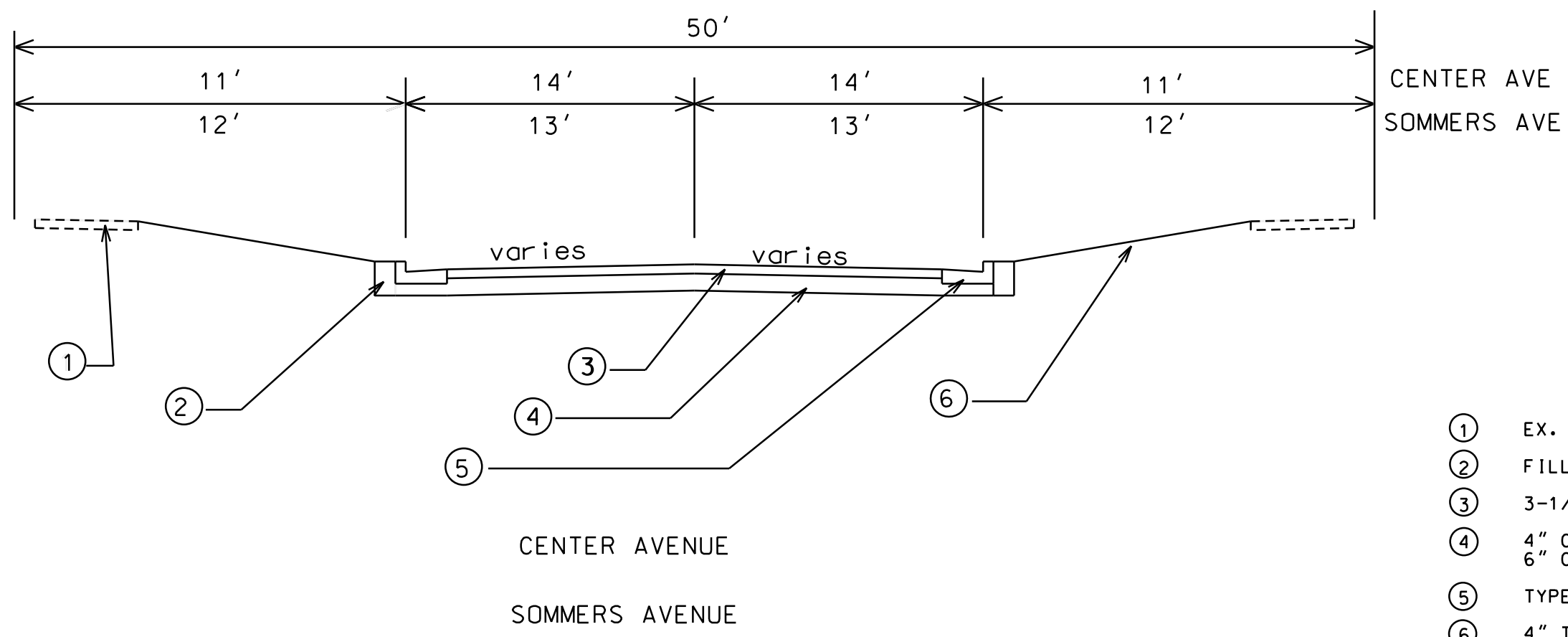


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

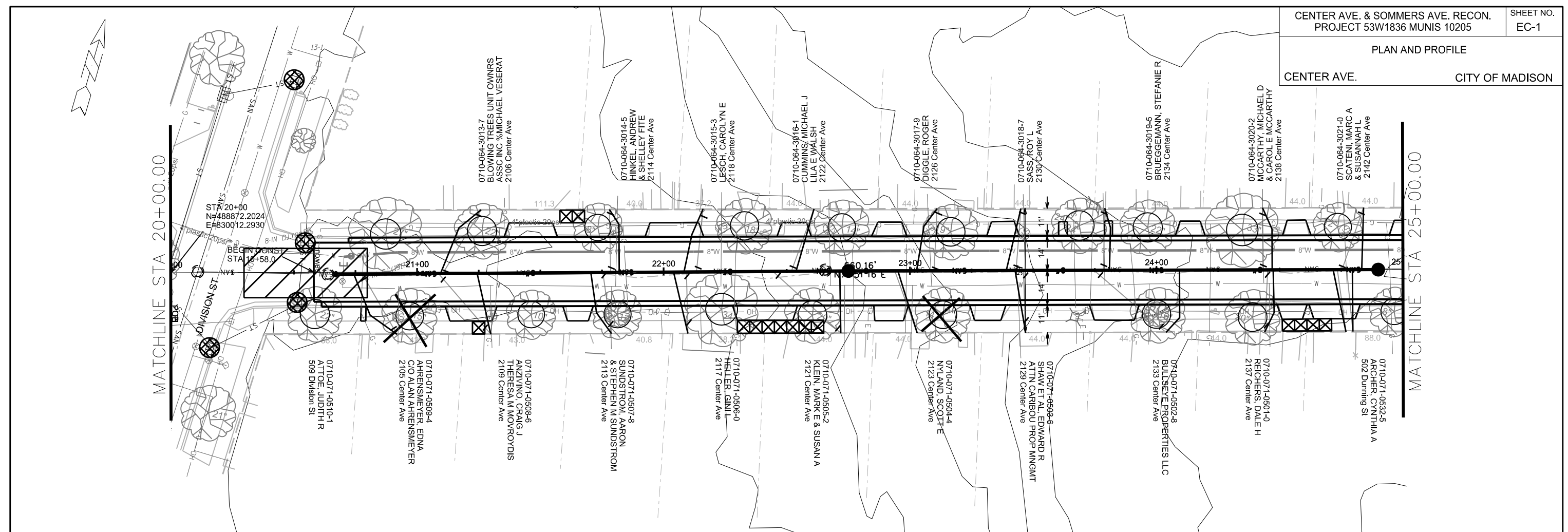


- ① EX. 5" CONC. SW
- ② FILL
- ③ 3-1/2" HMA PAV'T TYPE 0.3
- ④ 4" C.A.B.C.GR. 2
6" C.A.B.C.GR. 1
- ⑤ TYPE A CONC. C&G
- ⑥ 4" TOPSOIL, SEED & MATTING

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

ORIGINATOR: _____



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.

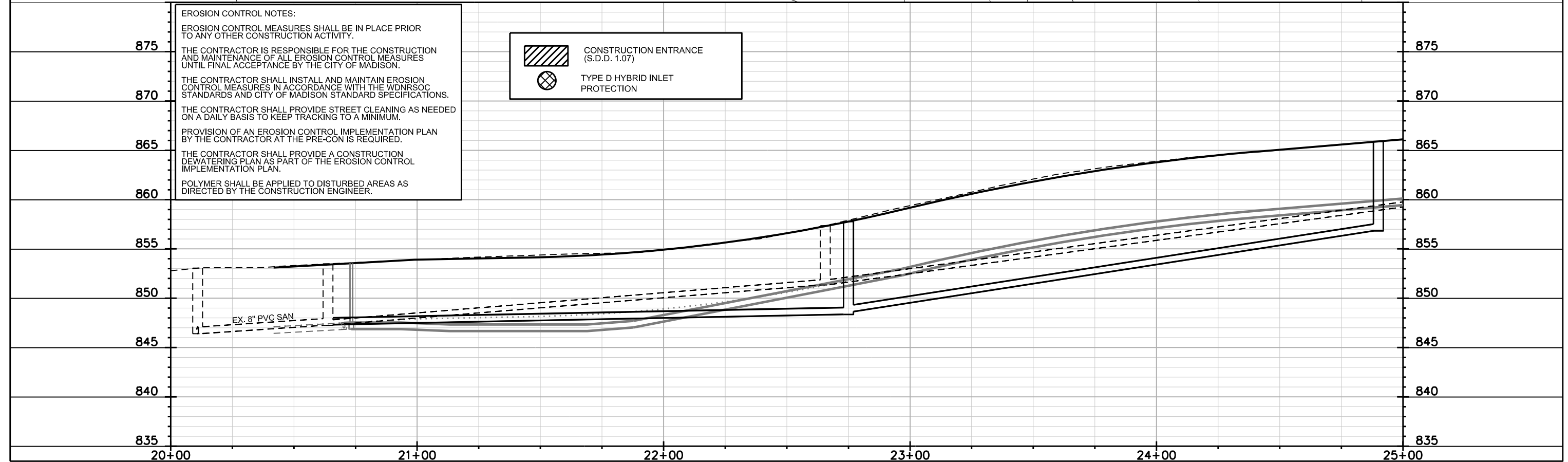
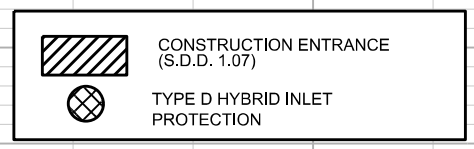
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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

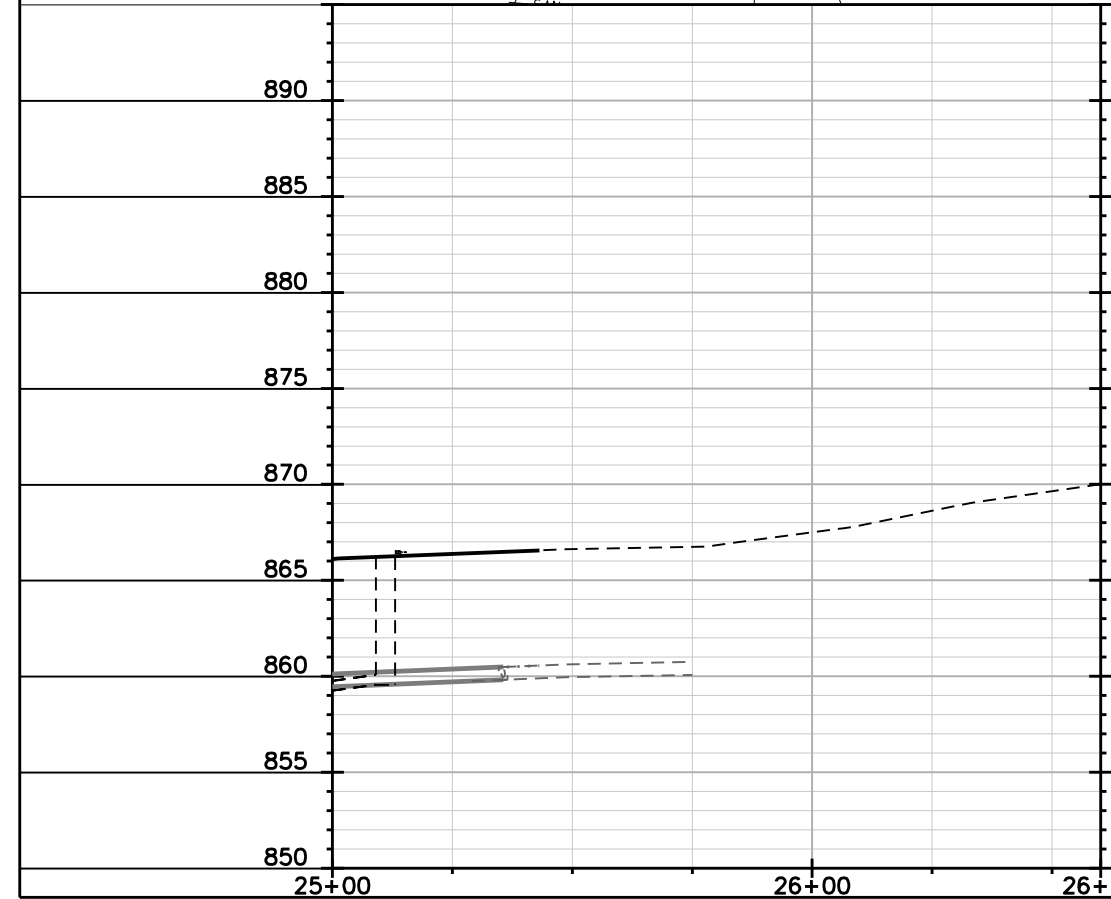
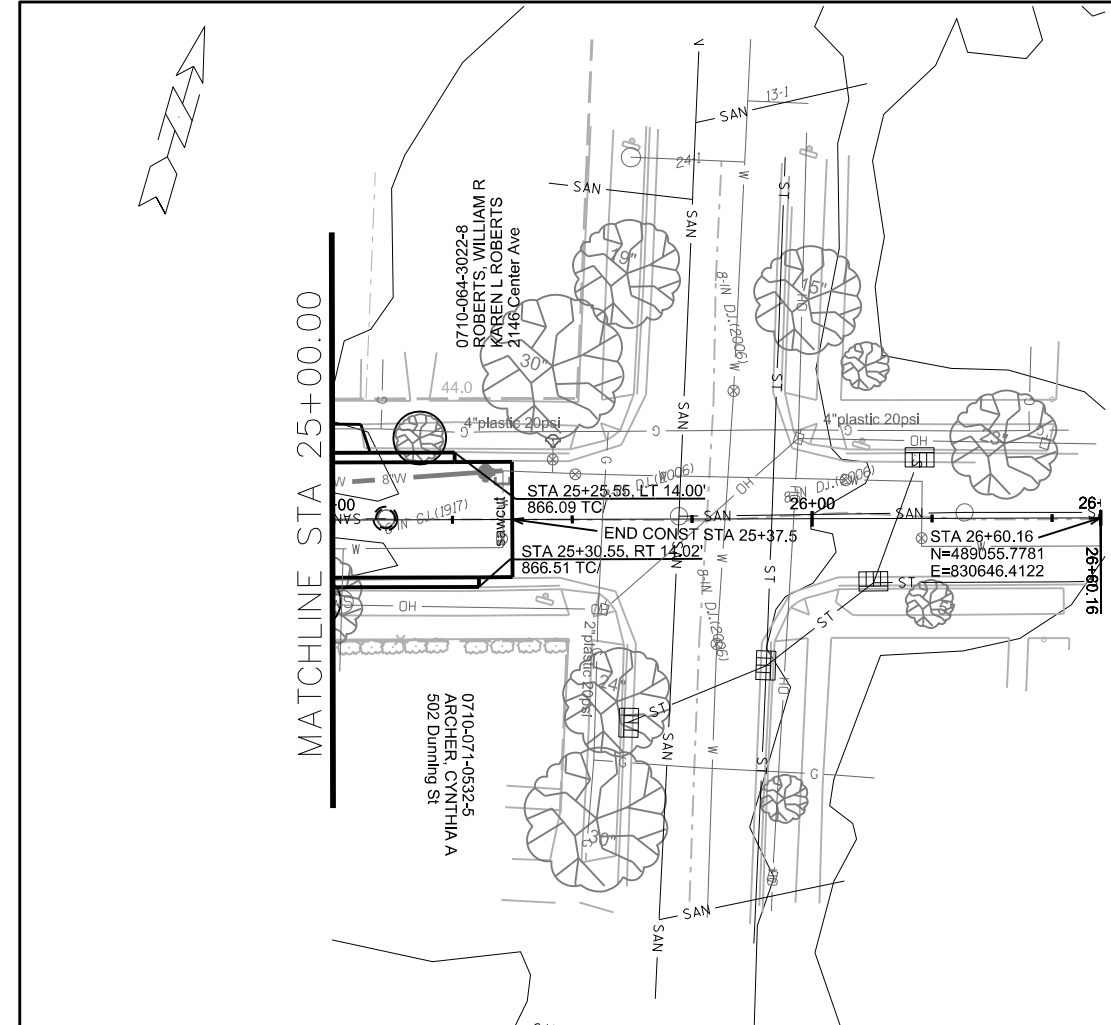
PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

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: 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

PLOT SCALE:

PLOT NAME:

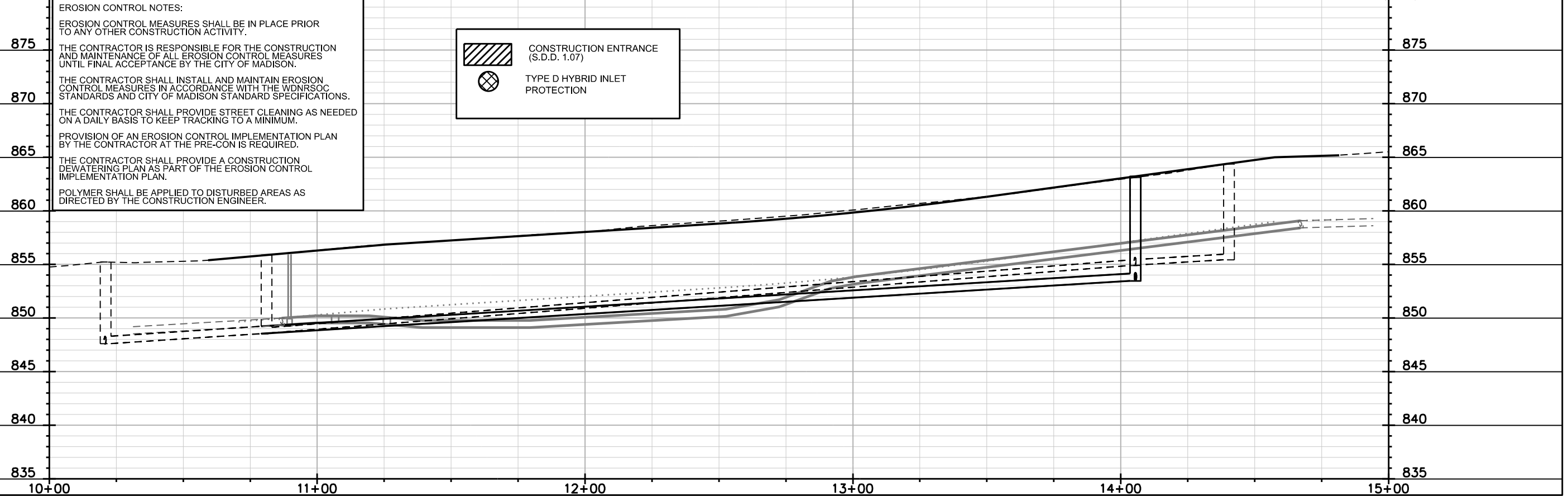
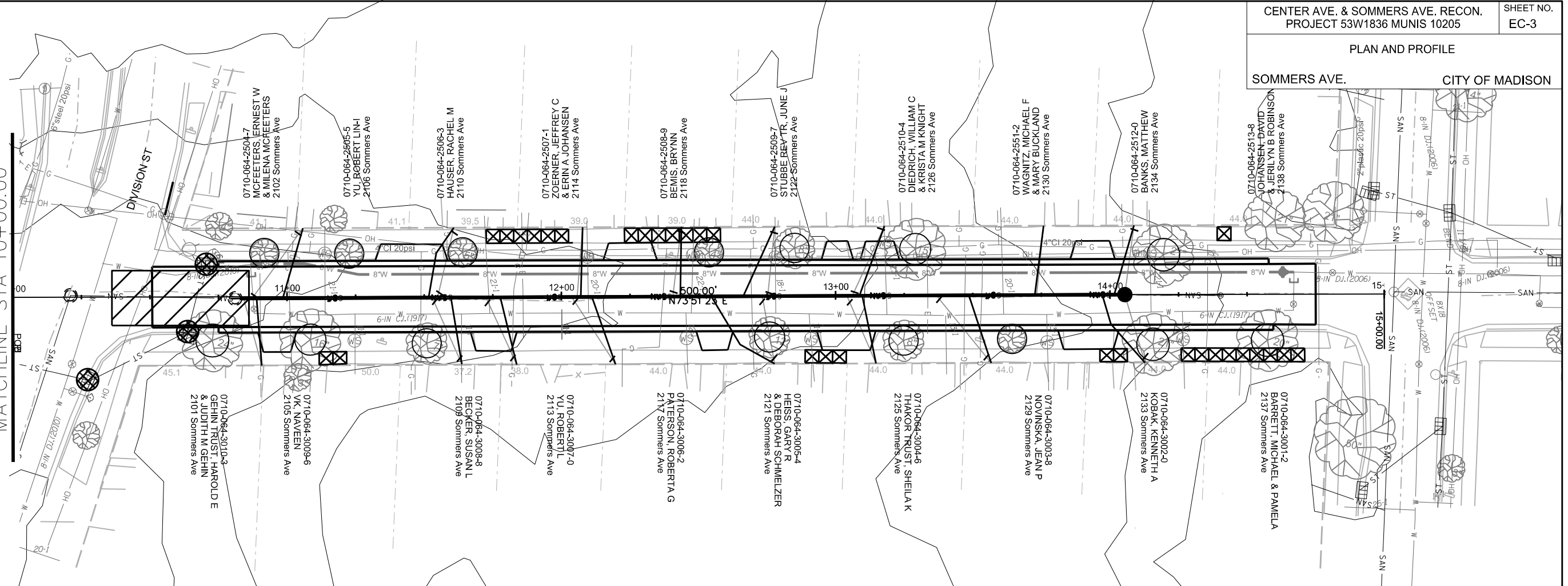
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

SOMMERS AVE. CITY OF MADISON

MATCHLINE STA 10+00.00



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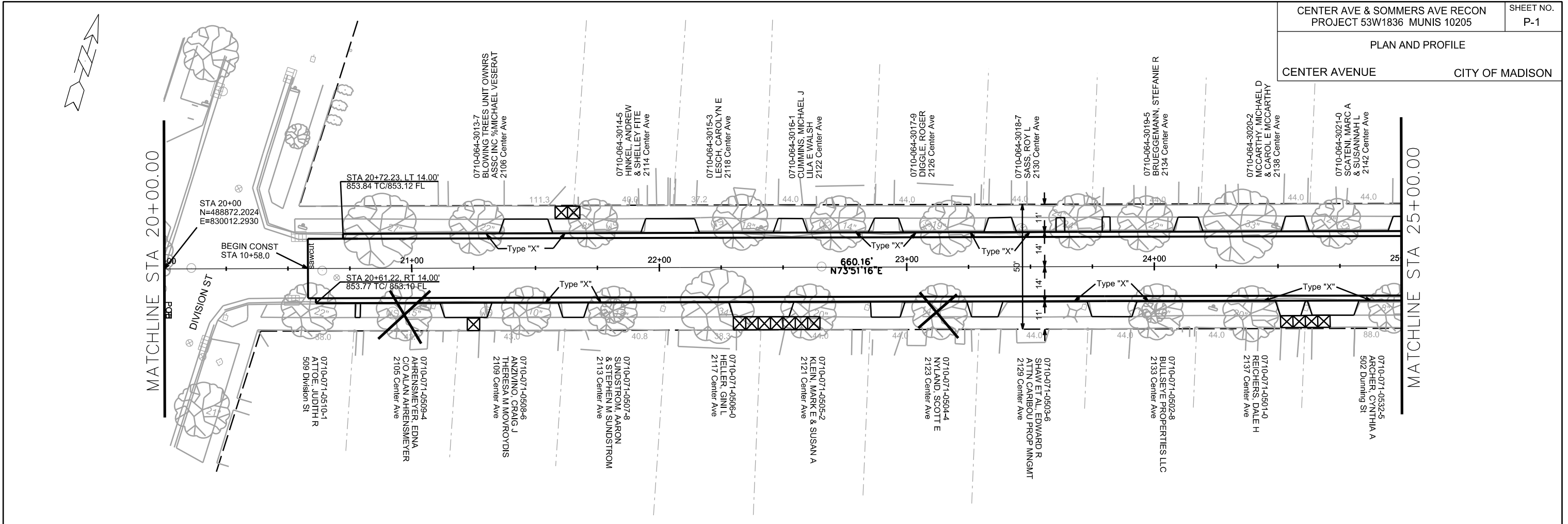
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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

PLOT SCALE: _____

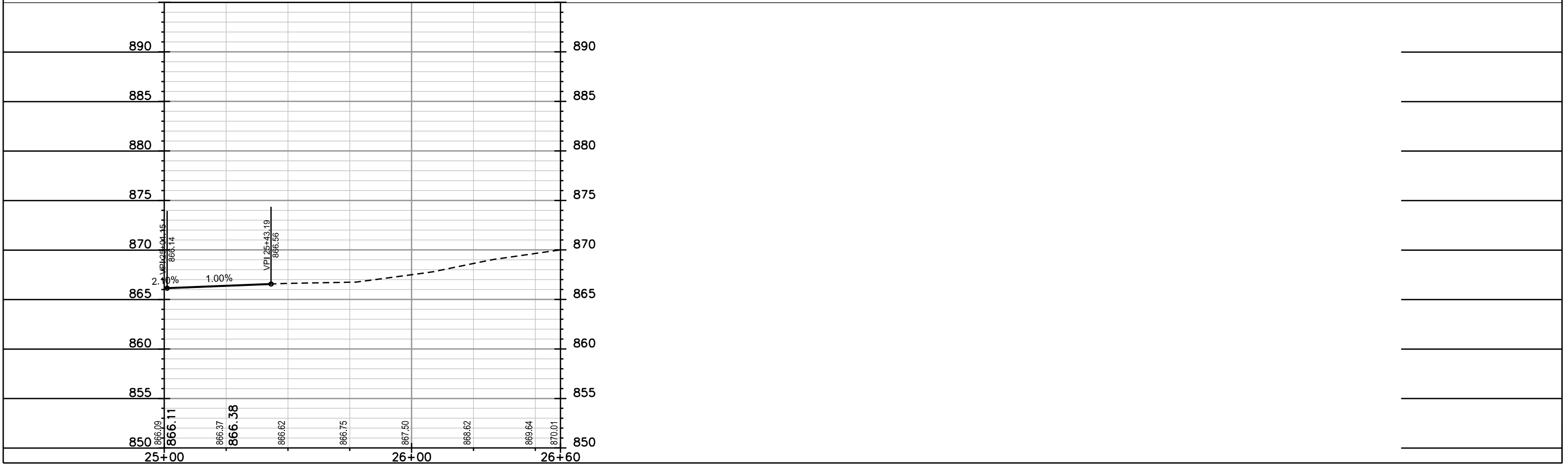
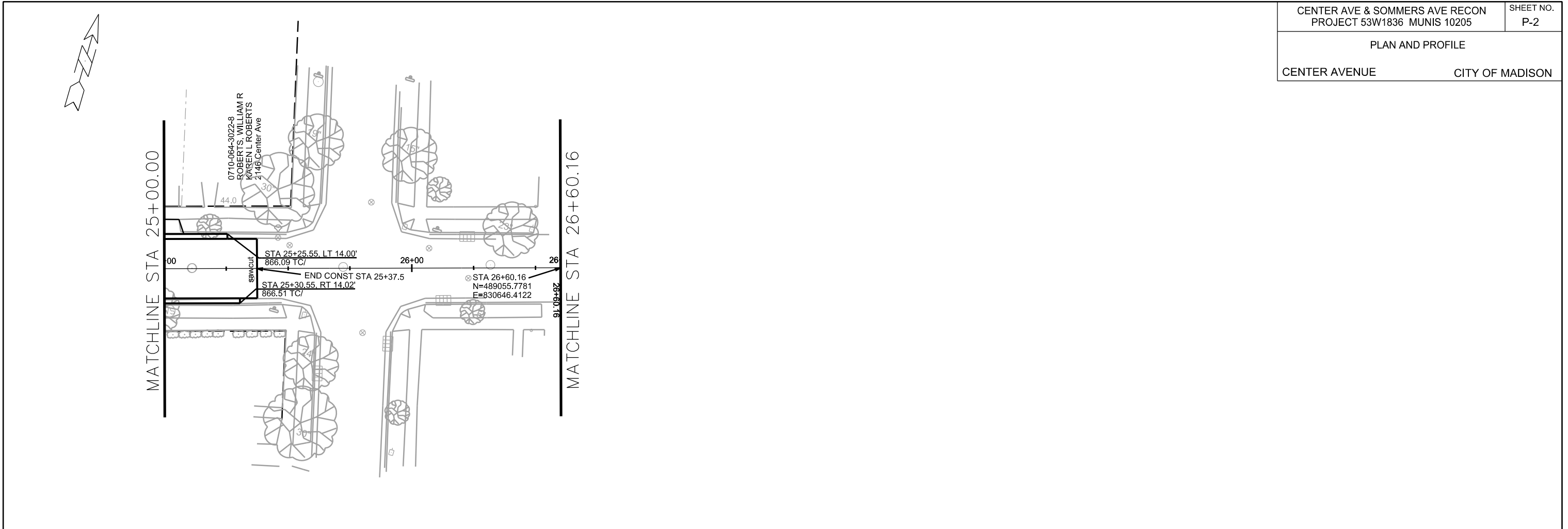
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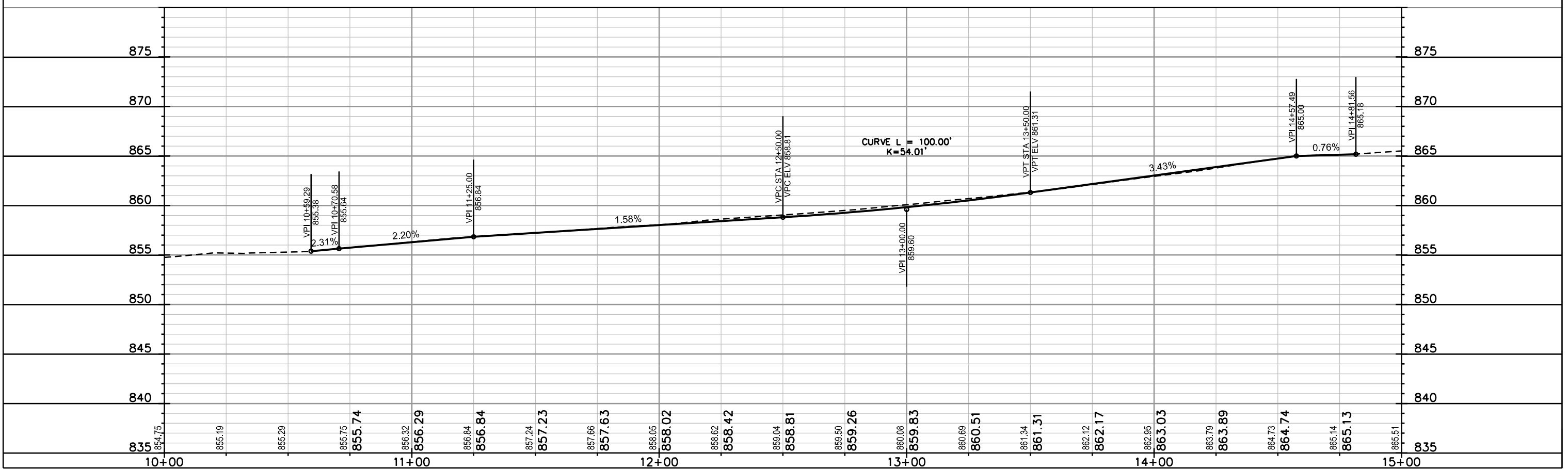
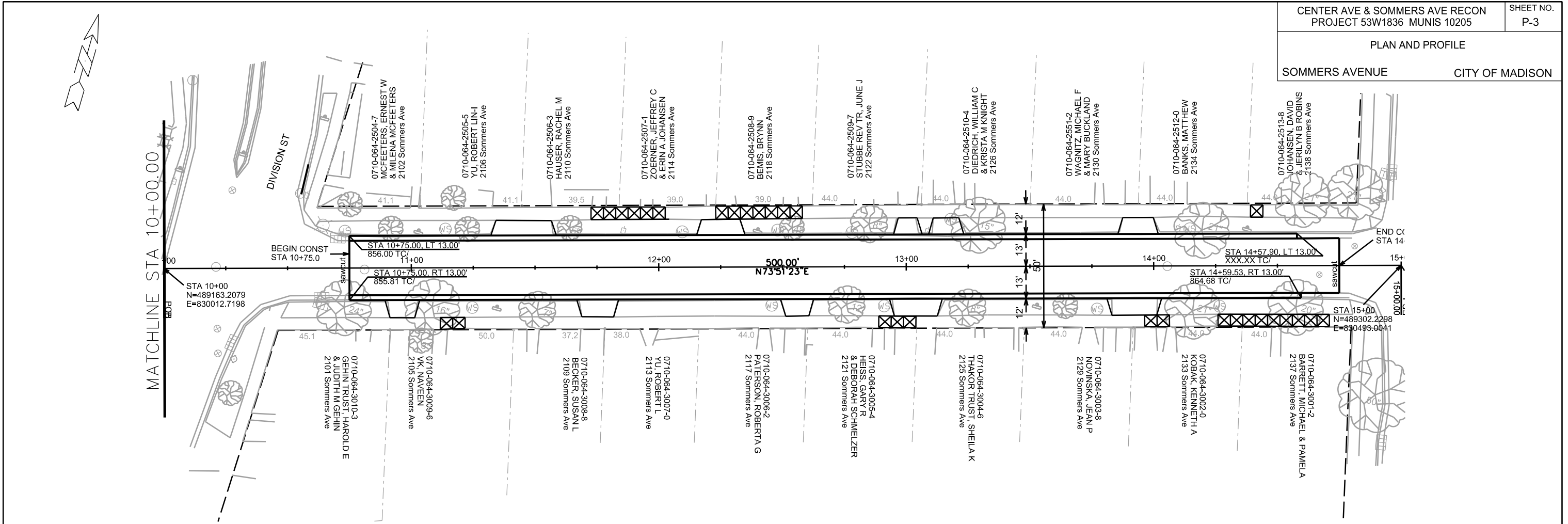


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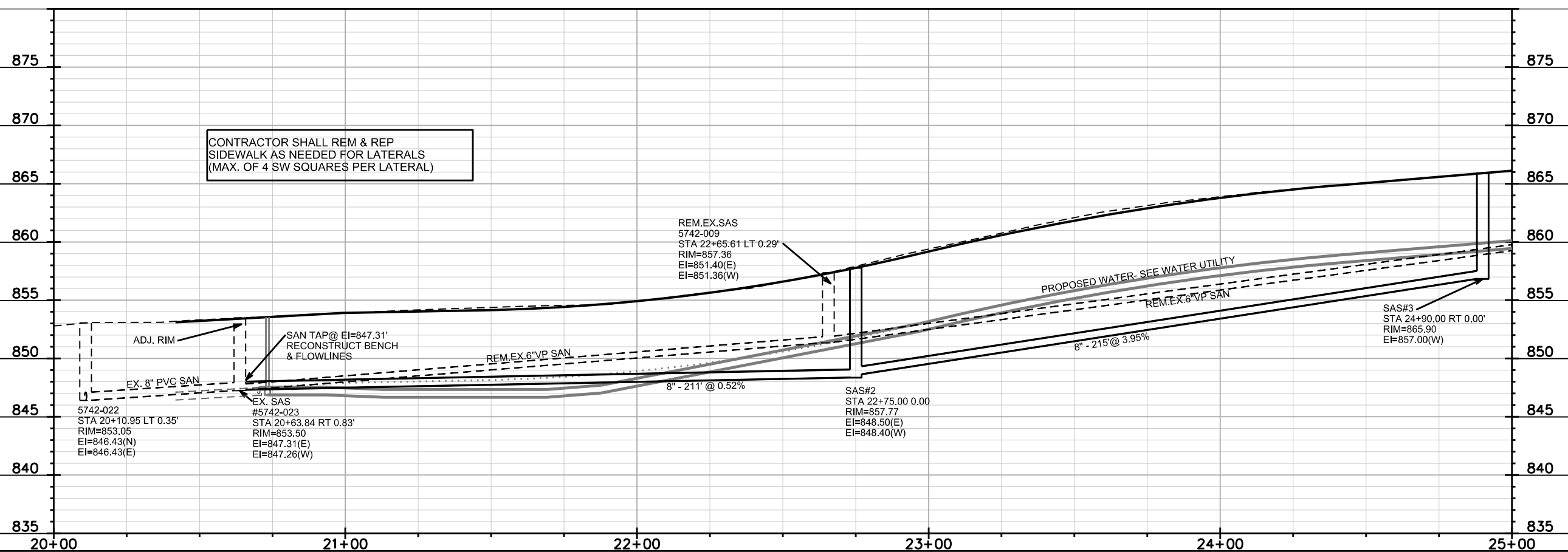
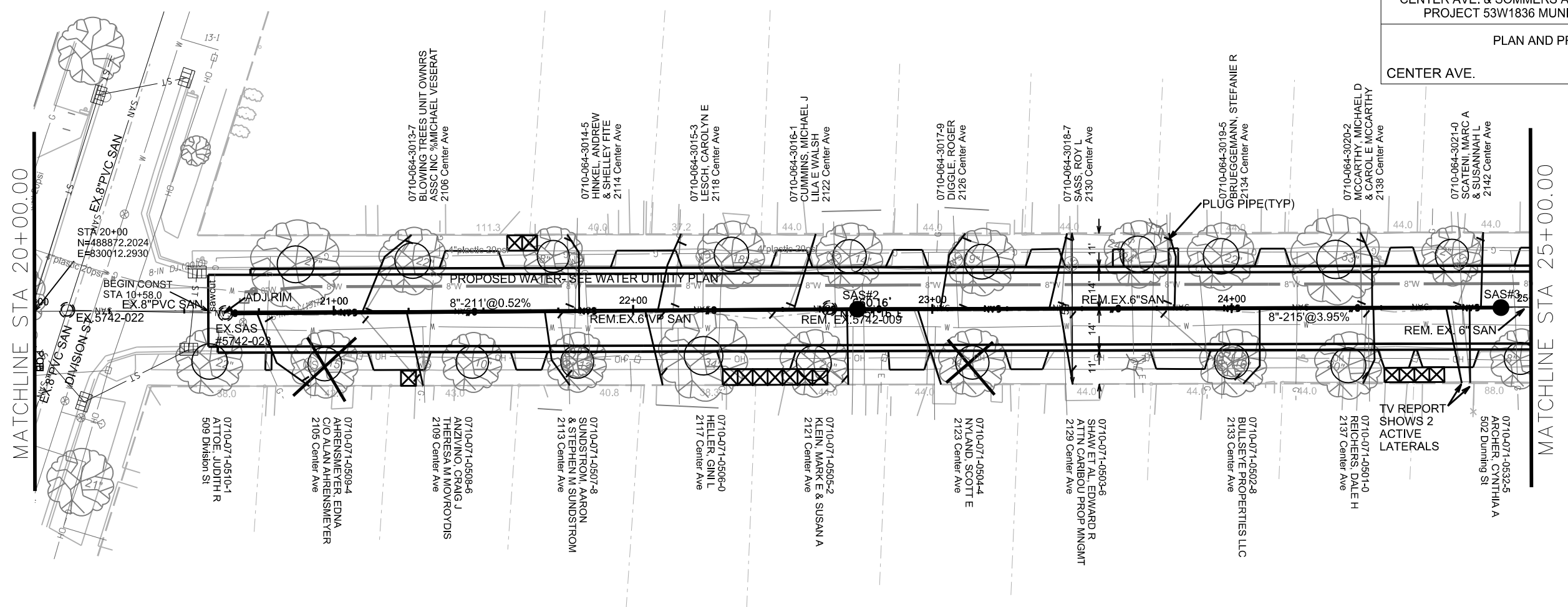


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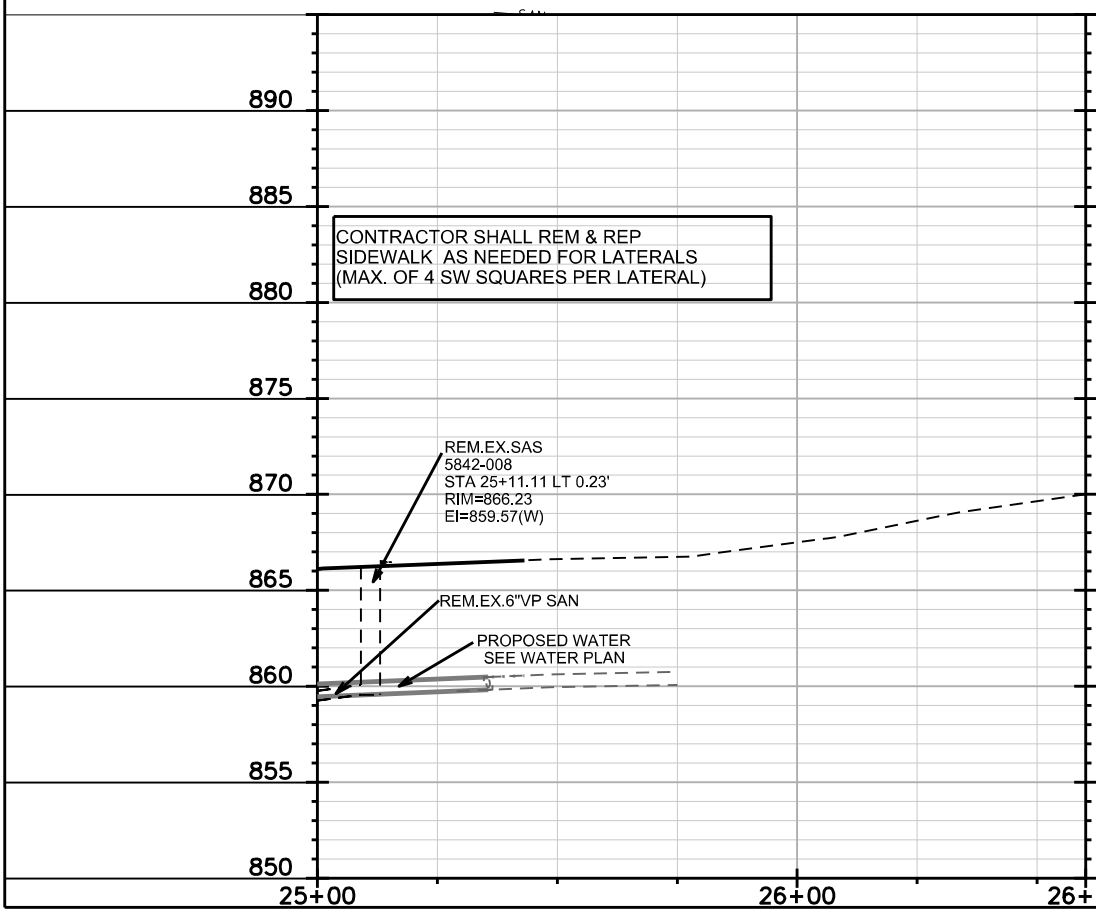
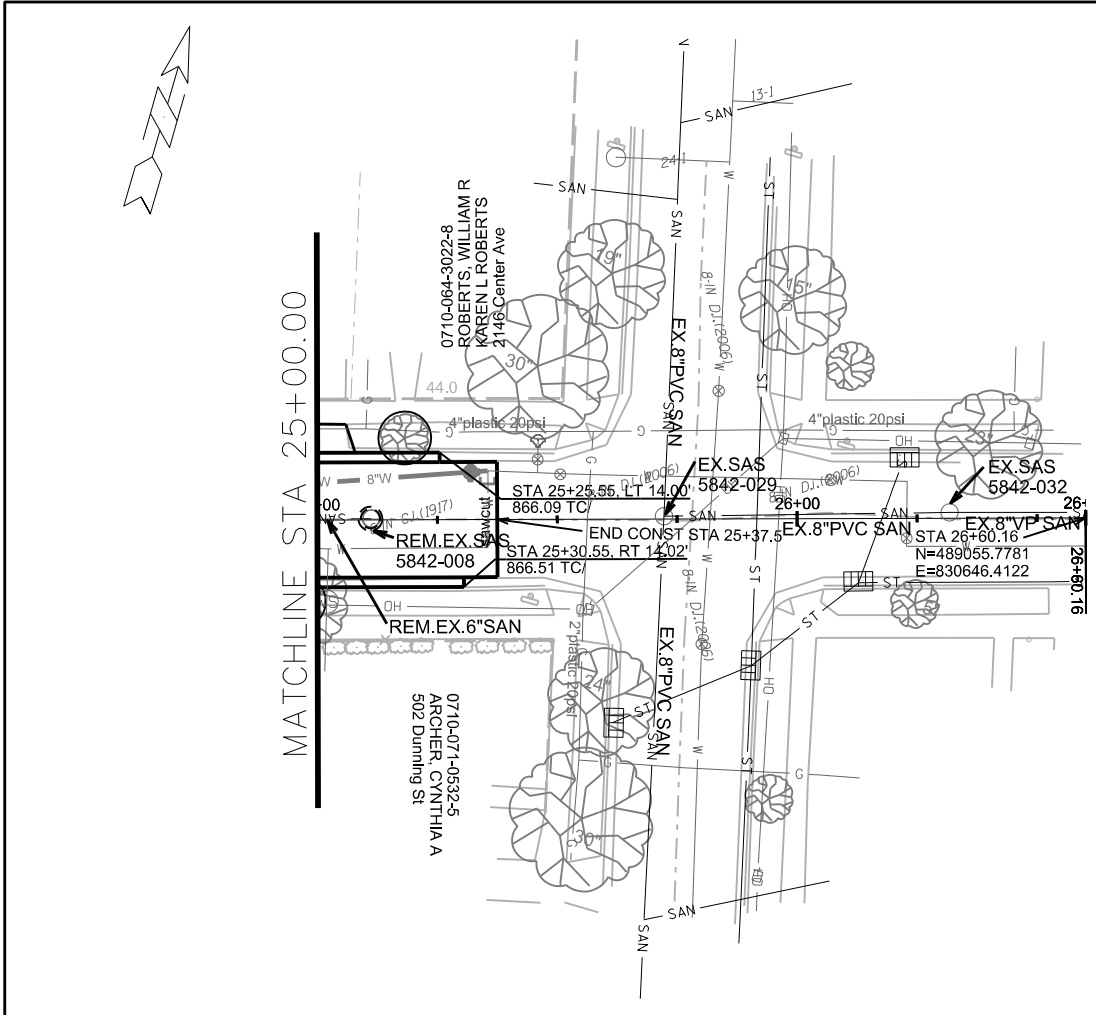
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

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



PLOT SCALE:

PLOT NAME:

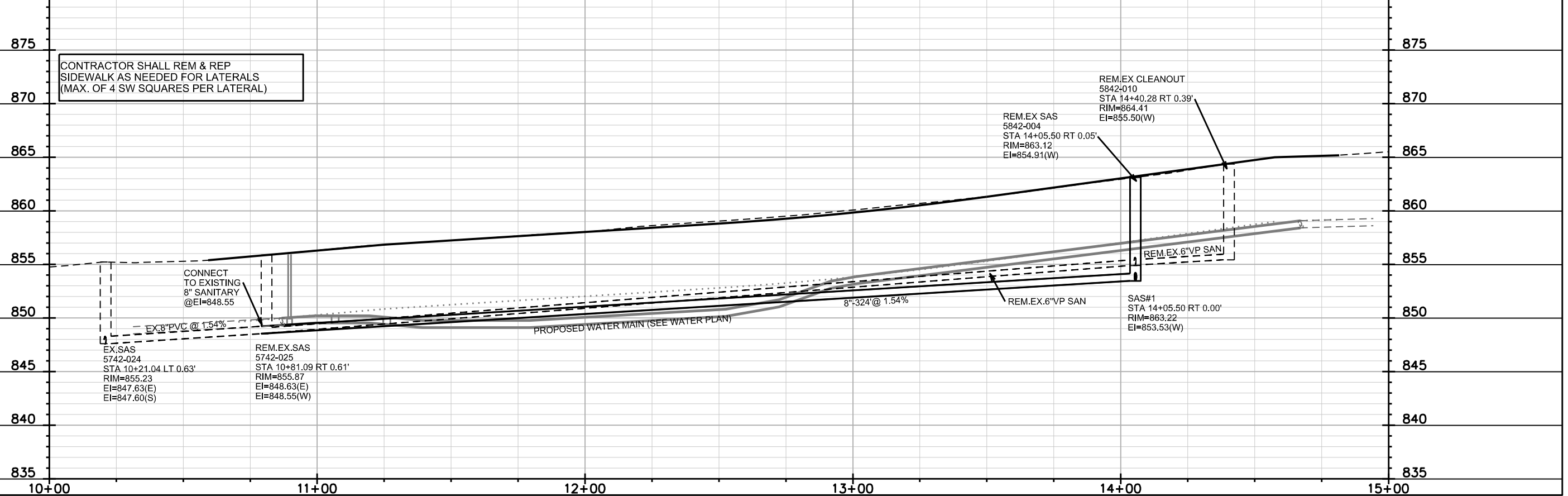
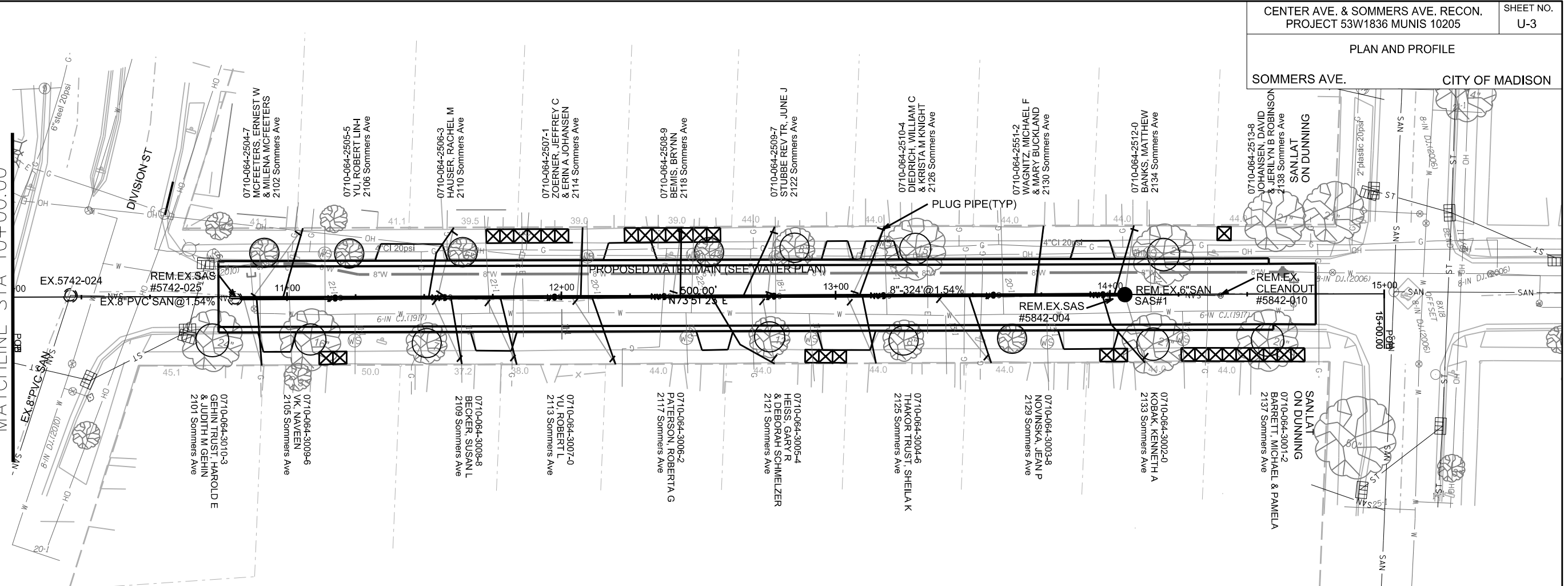
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

SOMMERS AVE. CITY OF MADISON

MATCHLINE STA 10+00.00



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	14+05.50	RT 0'	863.22	853.53	9.69	
SAS#2	22+75.00	RT 0'	857.77	848.4	9.37	
SAS#3	24+90.00	RT 0'	865.9	857	8.90	

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PIPE TYPE
5742-025	SAS#1	848.55	853.53	324	1.54%	8	SDR-35 PVC
5742-023	SAS#2	847.31	848.40	211	0.52%	8	SDR-35 PVC
SAS#2	SAS#3	848.50	857.00	215	3.95%	8	SDR-35 PVC

REMOVE SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	EX. RIM (FT)	EI	DEPTH	NOTES
5742-025	10+81.09	RT-0.61	855.87	848.55	7.32	
5842-004	14+05.50	RT-0.05	863.12	854.91	8.21	
5842-010	14+40.28	RT-0.39	864.41	855.5	8.91	CLEANOUT
5742-023	20+63.84	RT-0.83	853.5	847.26	6.24	
5742-009	22+65.61	LT-0.29	857.36	851.36	6.00	
5842-008	25+11.11	LT-0.23	866.23	859.57	6.66	

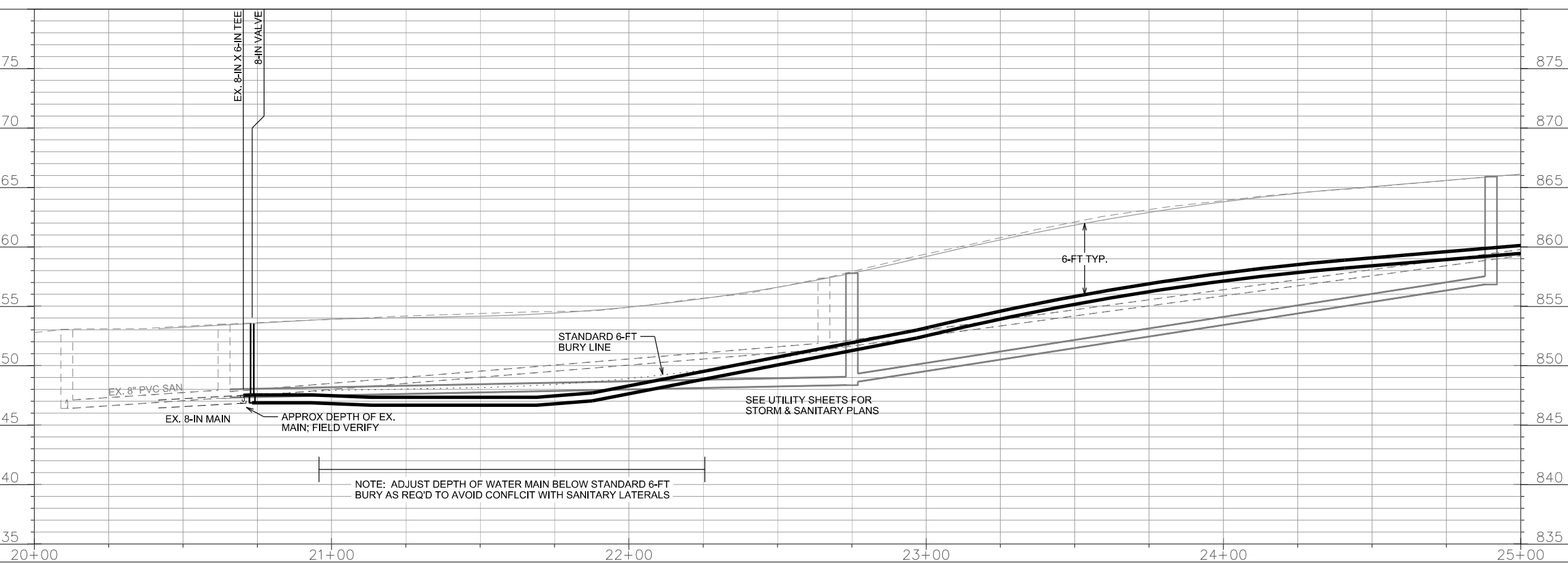
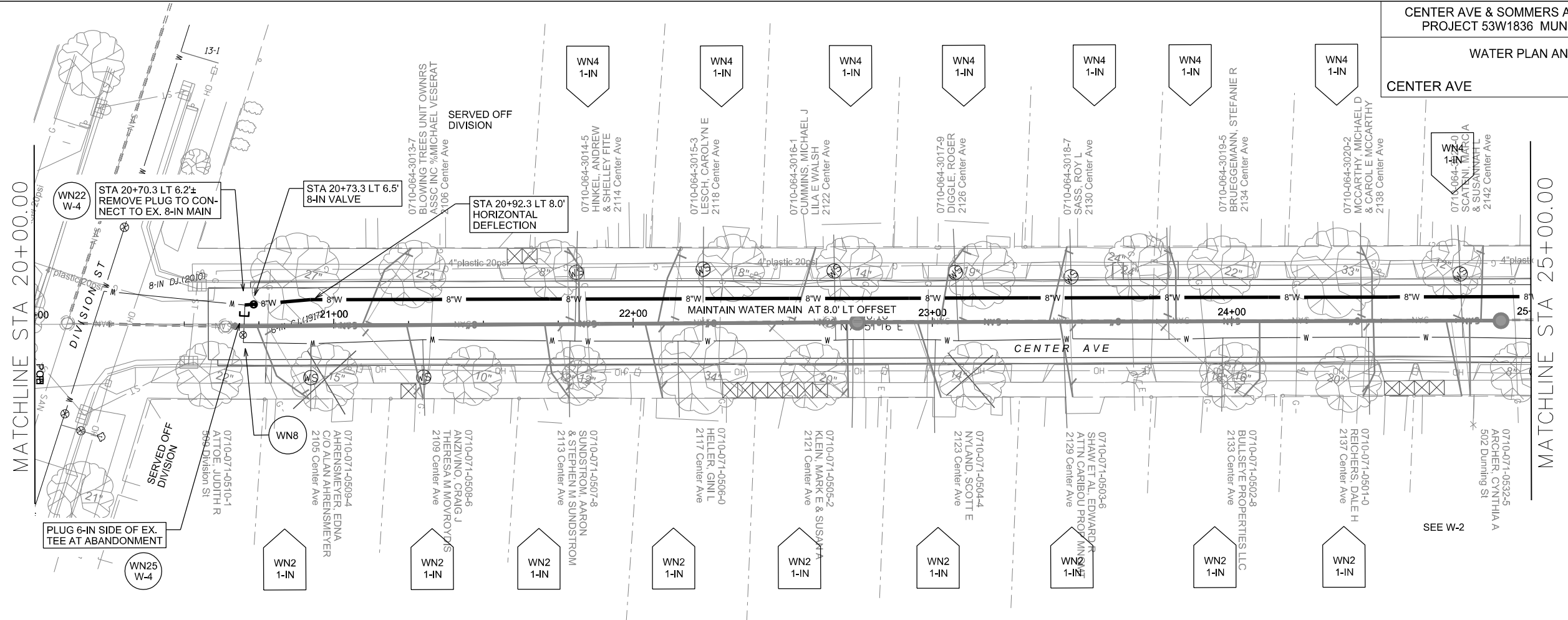
REMOVE SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	OVERALL LENGTH (FT)	PAY LENGTH (FT)	SIZE (DIA) INCH	PIPE TYPE	PAYABLE (Yes/No)	NOTES
5742-025	5842-004	324	0	6"	VP	NO	(1)
5842-004	5842-010	35	35	6"	VP	YES	(1)
5742-023	SAS#2	211	0	6"	VP	NO	(1)
SAS#2	SAS#3	215	0	6"	VP	NO	(1)
SAS#3	5842-008	21	21	6"	VP	YES	(1)

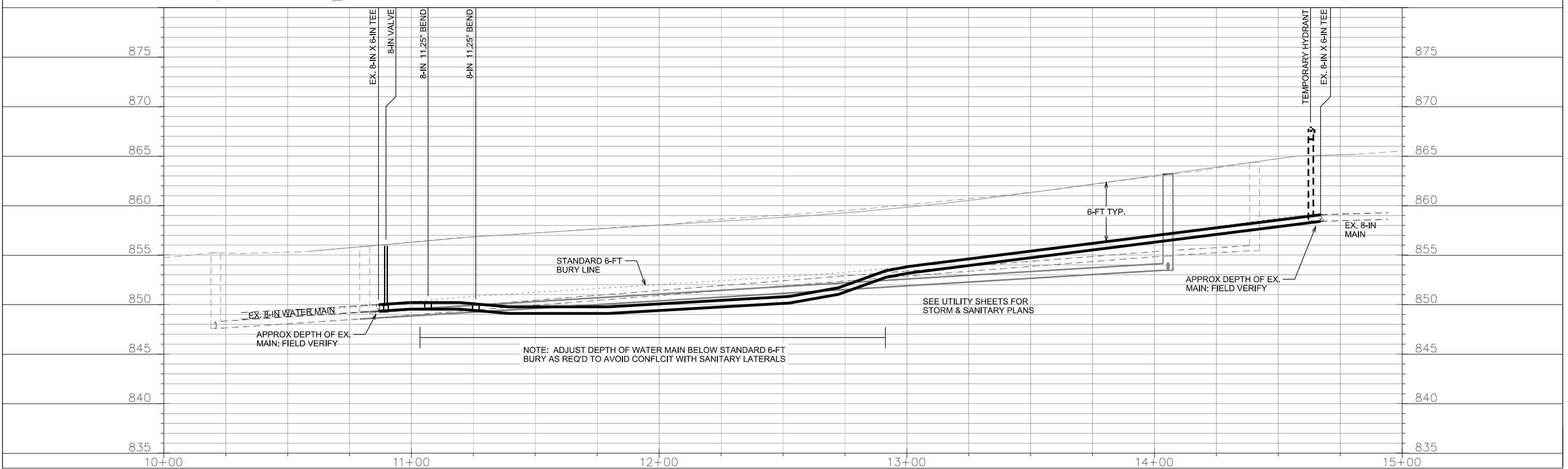
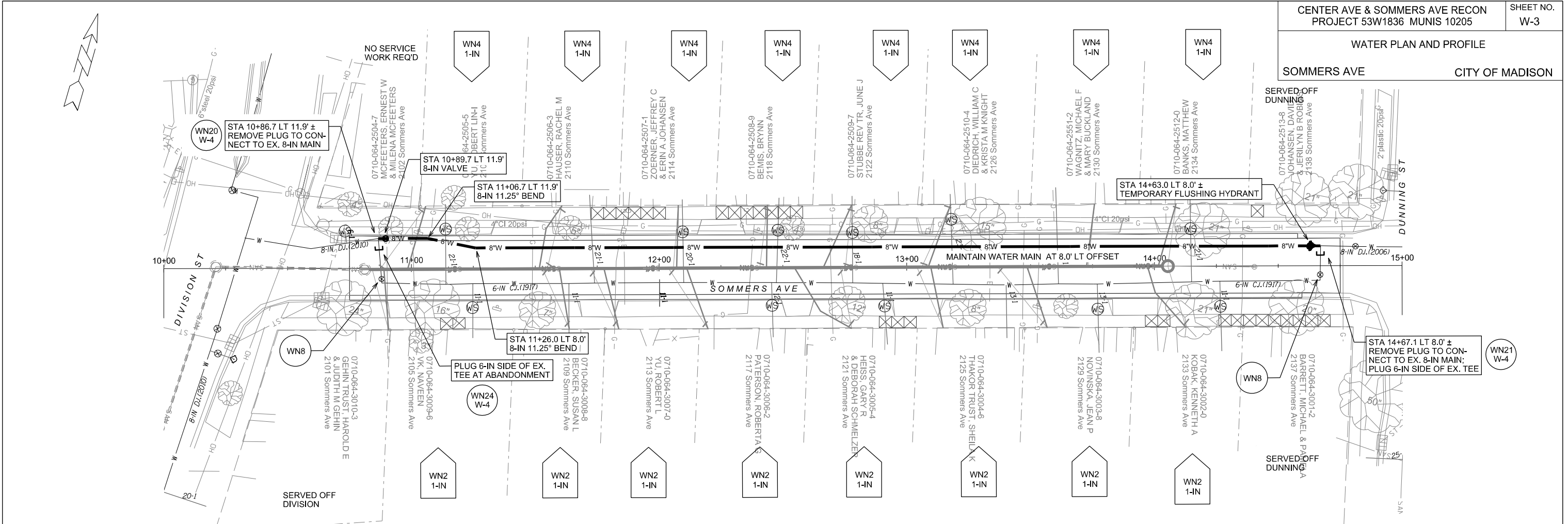
NOTE: (1) PIPE REMOVAL WITHIN 3' OF PROPOSED SANITARY SEWER MAIN CONSIDERED INCIDENTAL TO NEW SEWER MAIN

ADJUST SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	STRUCTURE TYPE/SIZE	EX. ADJ.HT (FT)	EX. RIM	PROP. RIM	NOTES
5742-023	20+63.84	RT-0.83	4' DIAMETER SAS	0.83	853.41	853.31	



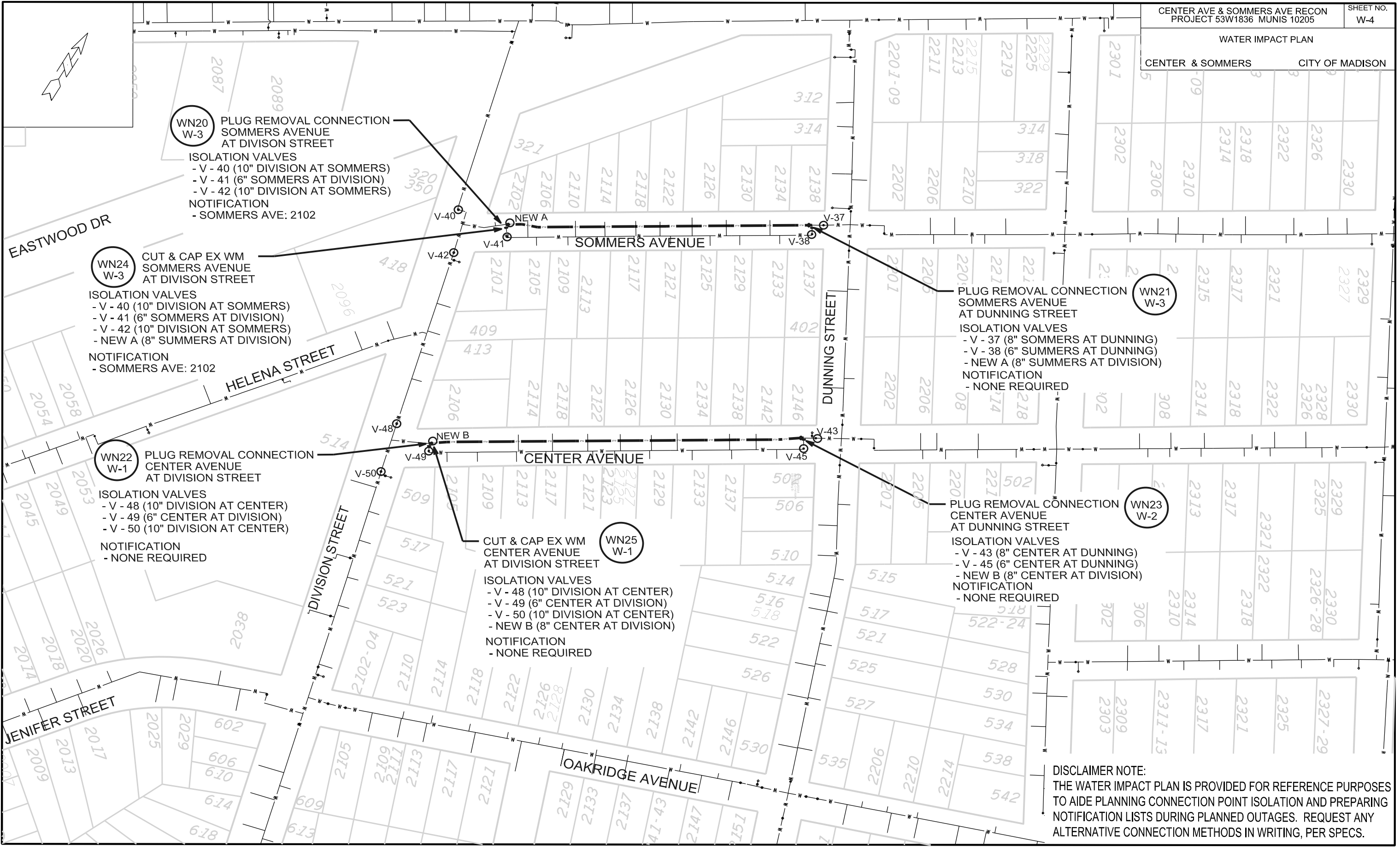
PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



WN20
W-3
PLUG REMOVAL CONNECTION
SOMMERS AVENUE
AT DIVISION STREET
ISOLATION VALVES
- V - 40 (10" DIVISION AT SOMMERS)
- V - 41 (6" SOMMERS AT DIVISION)
- V - 42 (10" DIVISION AT SOMMERS)
NOTIFICATION
- SOMMERS AVE: 2102

WN24
W-3
CUT & CAP EX WM
SOMMERS AVENUE
AT DIVISION STREET
ISOLATION VALVES
- V - 40 (10" DIVISION AT SOMMERS)
- V - 41 (6" SOMMERS AT DIVISION)
- V - 42 (10" DIVISION AT SOMMERS)
- NEW A (8" SOMMERS AT DIVISION)
NOTIFICATION
- SOMMERS AVE: 2102

WN22
W-1
PLUG REMOVAL CONNECTION
CENTER AVENUE
AT DIVISION STREET
ISOLATION VALVES
- V - 48 (10" DIVISION AT CENTER)
- V - 49 (6" CENTER AT DIVISION)
- V - 50 (10" DIVISION AT CENTER)
NOTIFICATION
- NONE REQUIRED

WN25
W-1
CUT & CAP EX WM
CENTER AVENUE
AT DIVISION STREET
ISOLATION VALVES
- V - 48 (10" DIVISION AT CENTER)
- V - 49 (6" CENTER AT DIVISION)
- V - 50 (10" DIVISION AT CENTER)
- NEW B (8" CENTER AT DIVISION)
NOTIFICATION
- NONE REQUIRED

WN21
W-3
PLUG REMOVAL CONNECTION
SOMMERS AVENUE
AT DUNNING STREET
ISOLATION VALVES
- V - 37 (8" SOMMERS AT DUNNING)
- V - 38 (6" SOMMERS AT DUNNING)
- NEW A (8" SOMMERS AT DIVISION)
NOTIFICATION
- NONE REQUIRED

WN23
W-2
PLUG REMOVAL CONNECTION
CENTER AVENUE
AT DUNNING STREET
ISOLATION VALVES
- V - 43 (8" CENTER AT DUNNING)
- V - 45 (6" CENTER AT DUNNING)
- NEW B (8" CENTER AT DIVISION)
NOTIFICATION
- NONE REQUIRED

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

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

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:

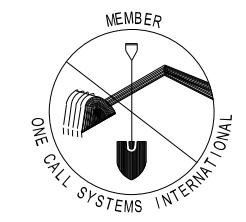
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION 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.*

- 860-FT - 8-IN PIPE
- 960-FT - POLYWRAP
- 2 - 8-IN VALVE & BOX
- 2 - 8-IN 11.25° BEND
- 4 - 6-IN MJ PLUG
- 2 - FLUSHING HYDRANT (TEMPORARY)
- COPPER SERVICE TUBING/COUPLINGS (AS REQUIRED)
- HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQUIRED)

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

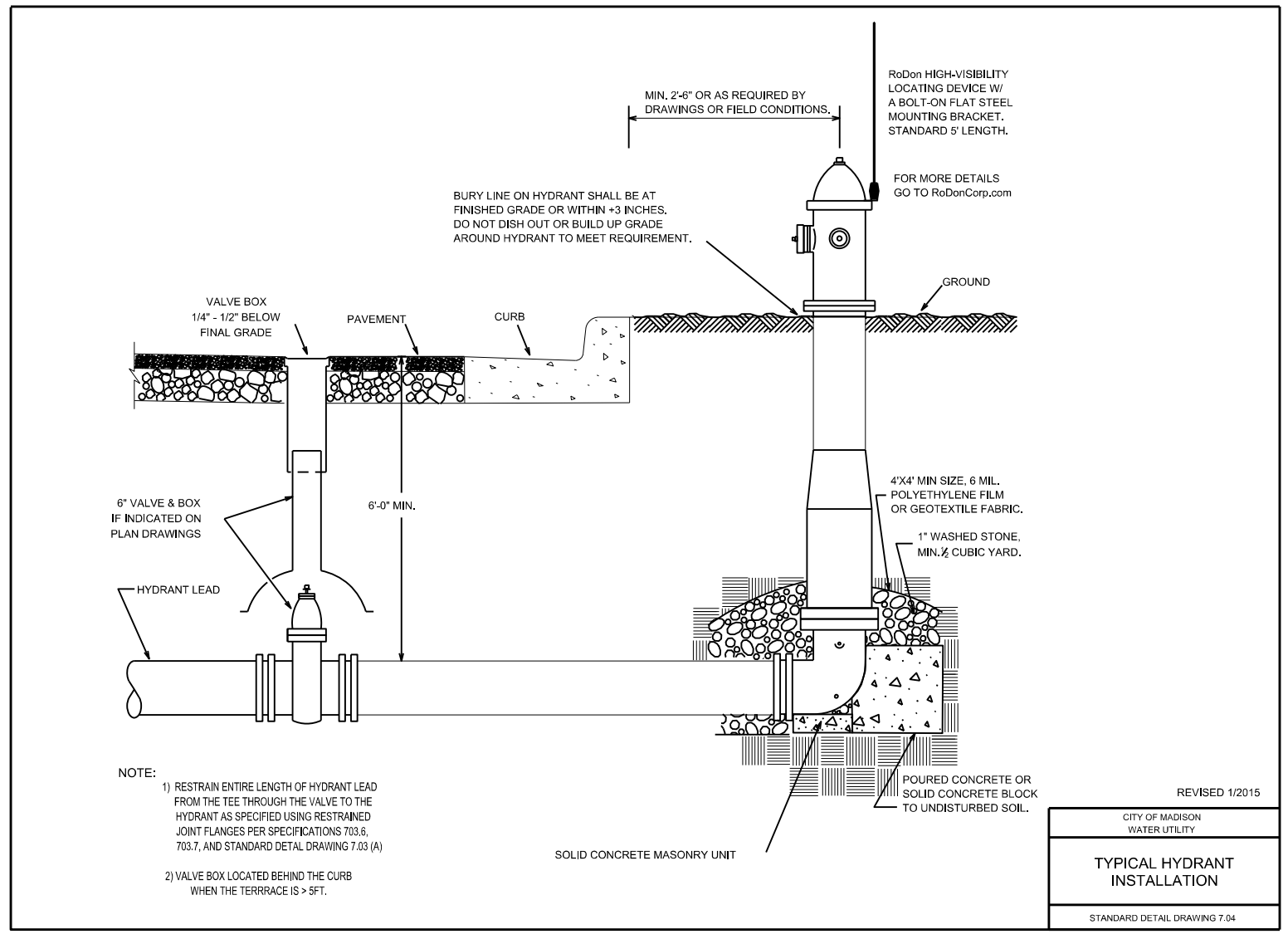
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

NONE

ESTIMATE OF MATERIALS SALVAGED:

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- 4 - 8-IN MJ CAPS



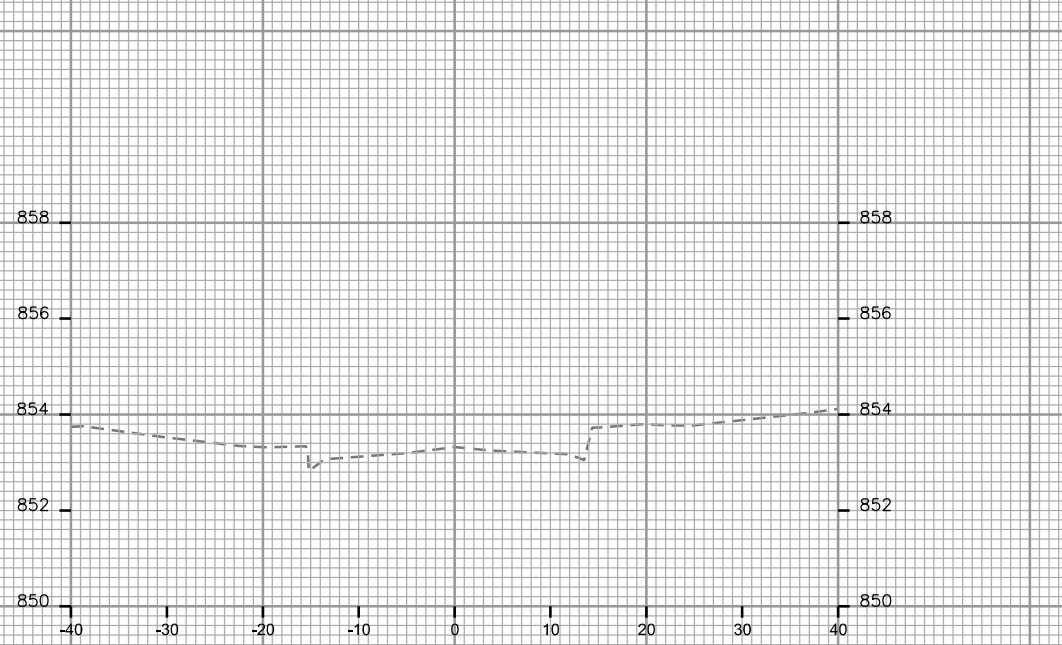
PLOT SCALE: _____ REV. DATE: _____ ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

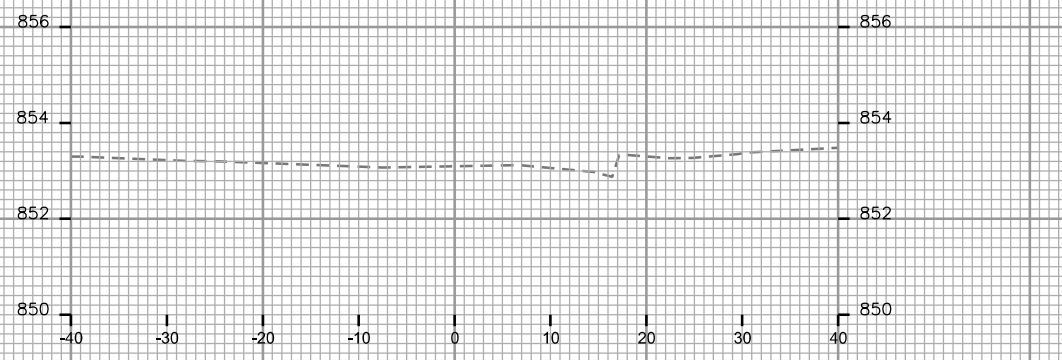
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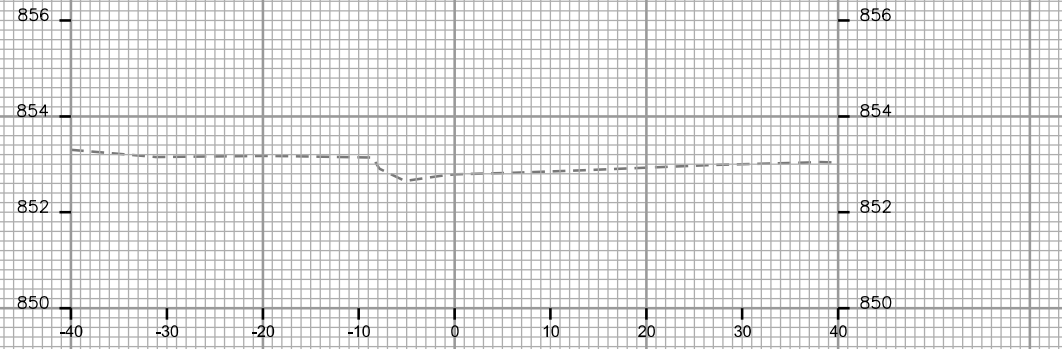
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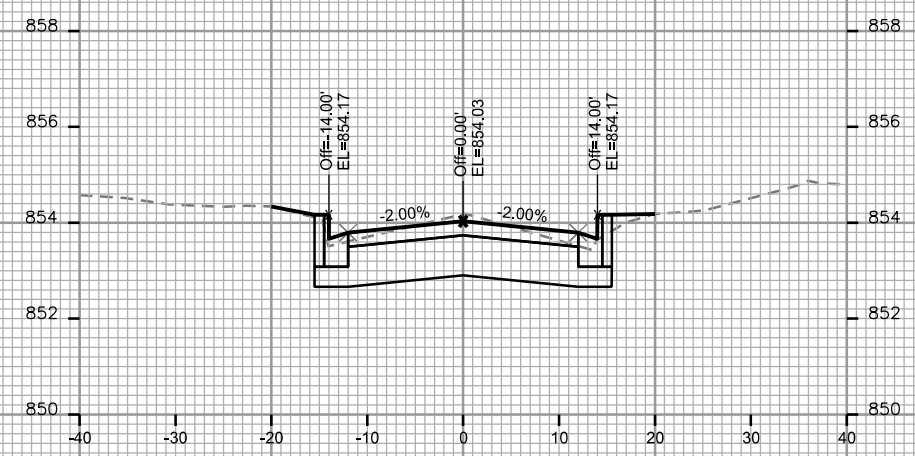
STA. 20+50



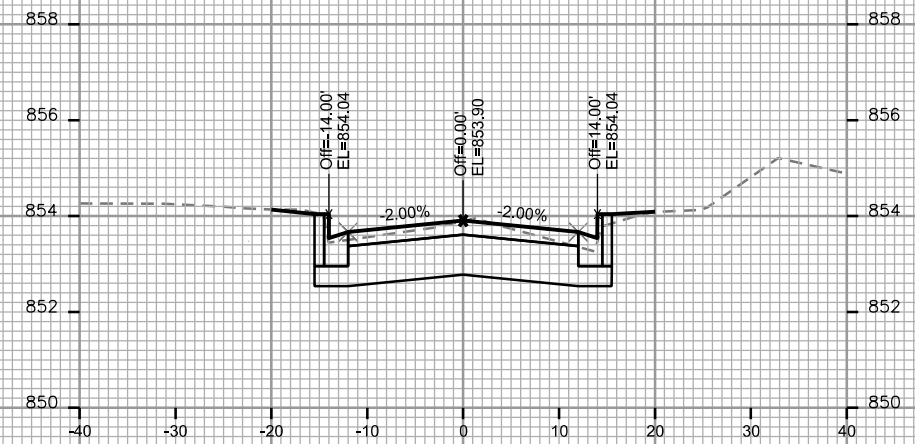
STA. 20+25



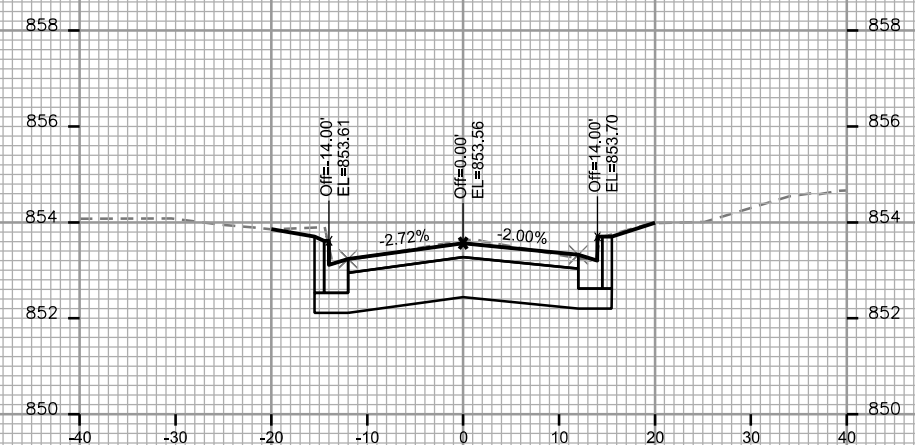
STA. 20+00



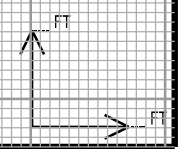
STA. 21+25



STA. 21+00



STA. 20+75



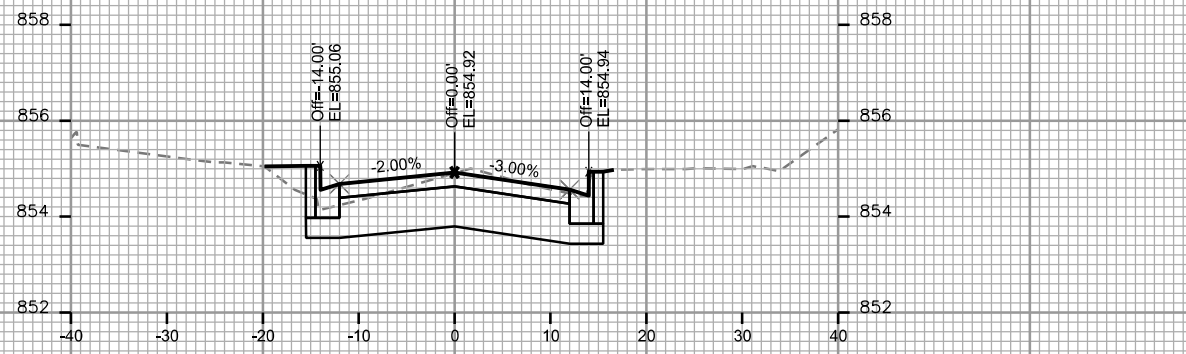
CROSS SECTIONS
CENTER AVENUE CITY OF MADISON

PLOT SCALE: _____

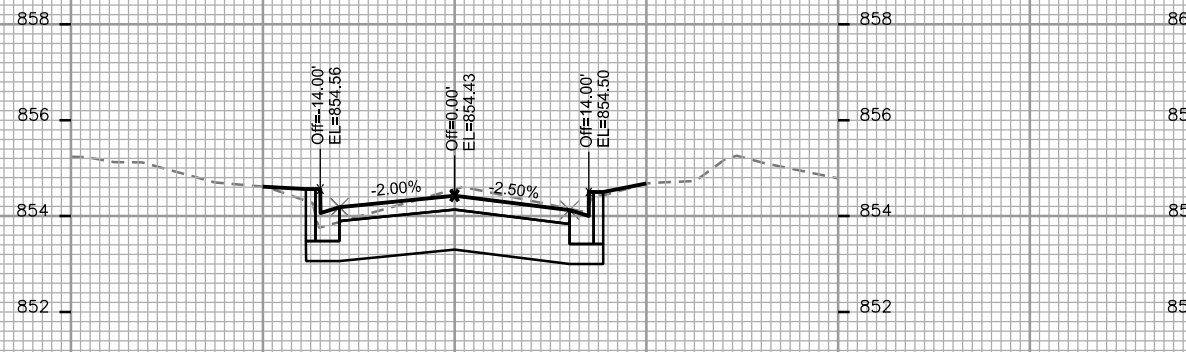
PLOT NAME: _____

REV. DATE: _____

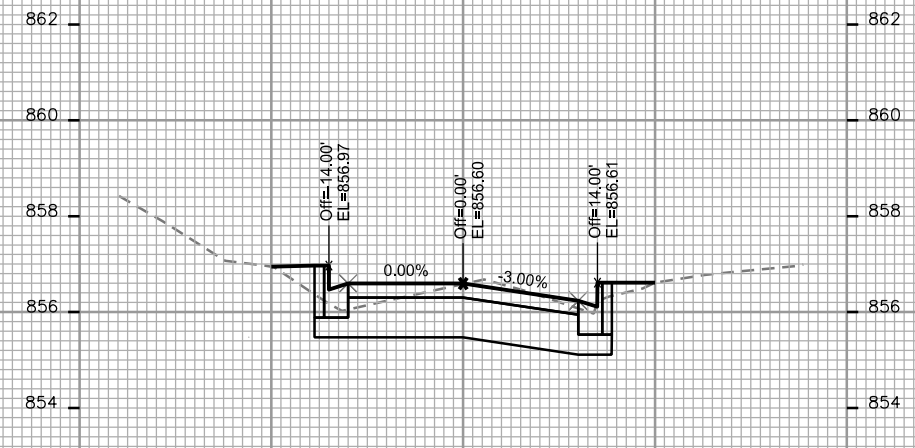
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



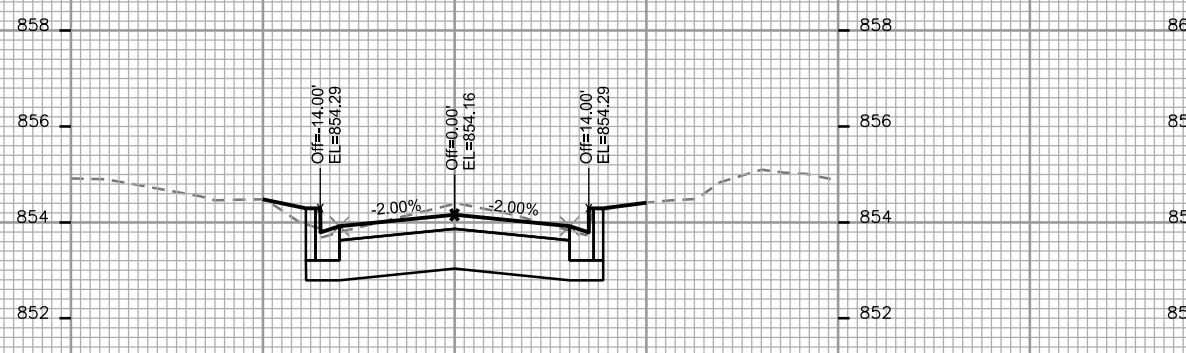
STA. 22+00



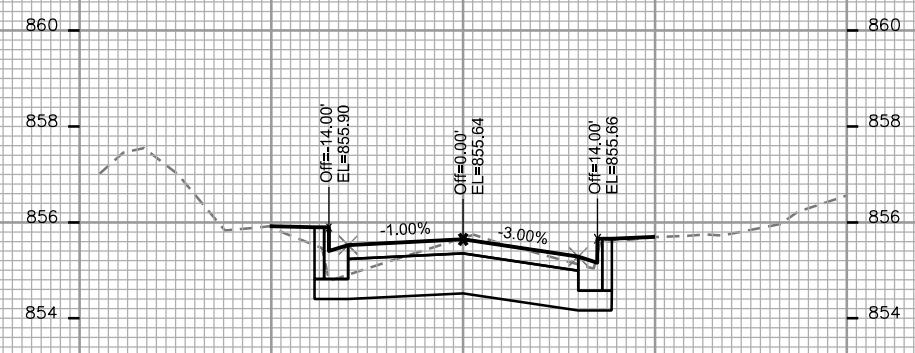
STA. 21+75



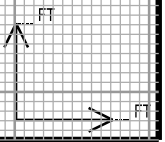
STA. 22+50



STA. 21+50



STA. 22+25

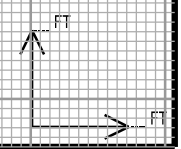
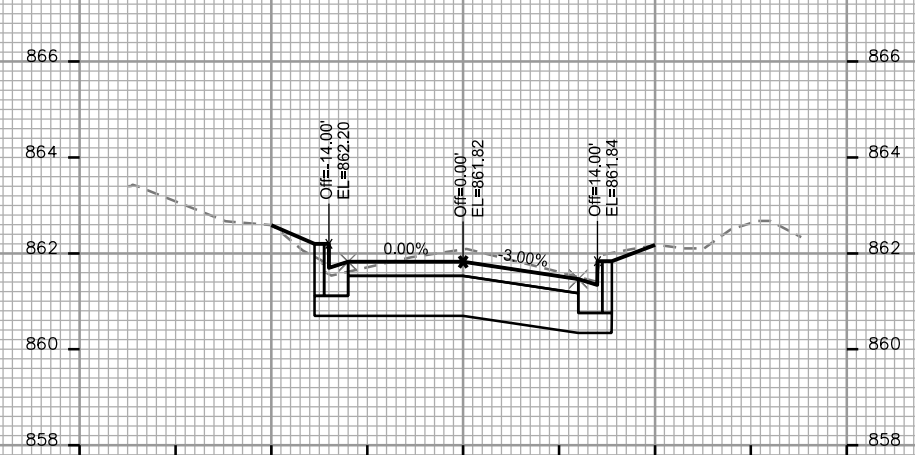
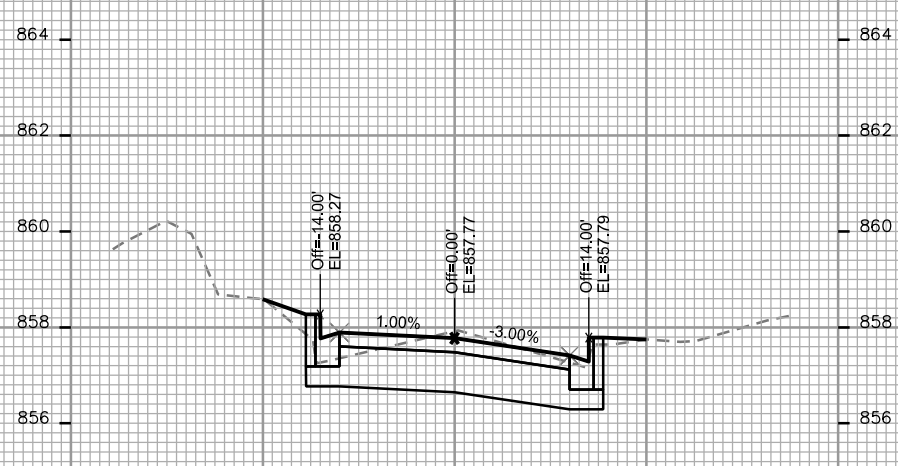
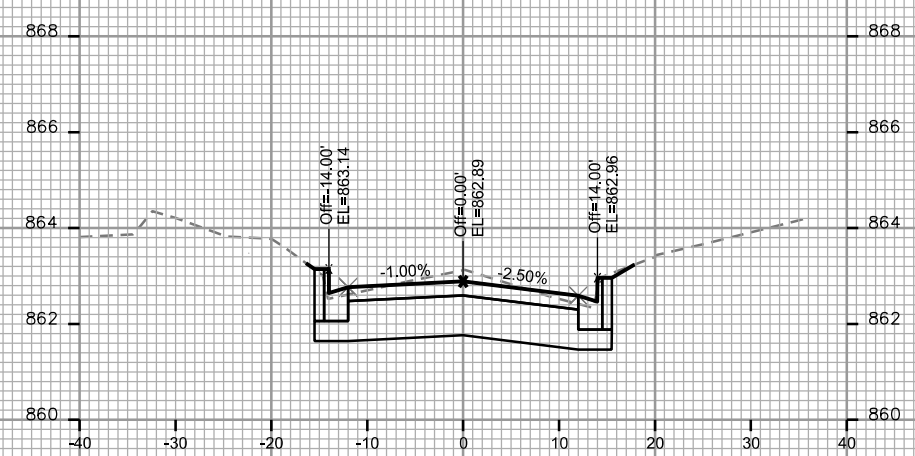
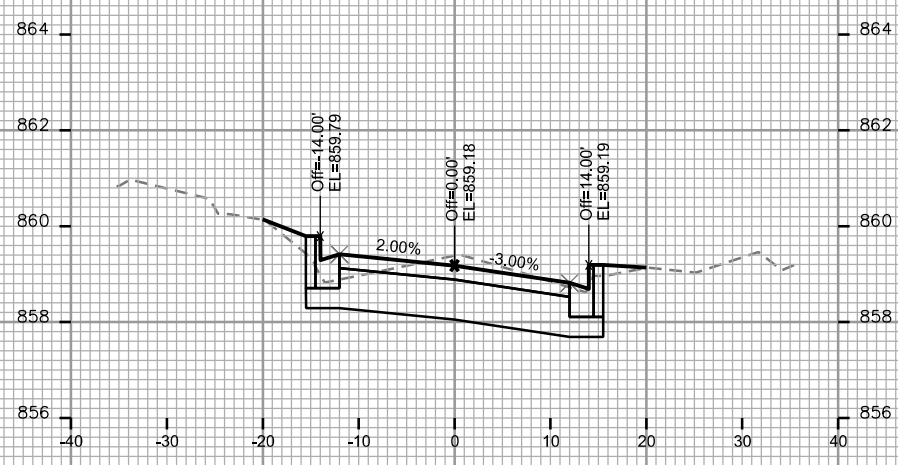
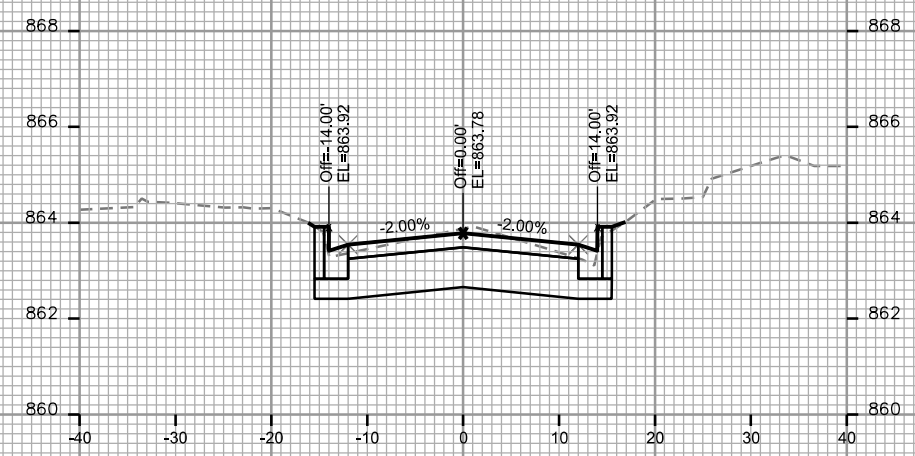
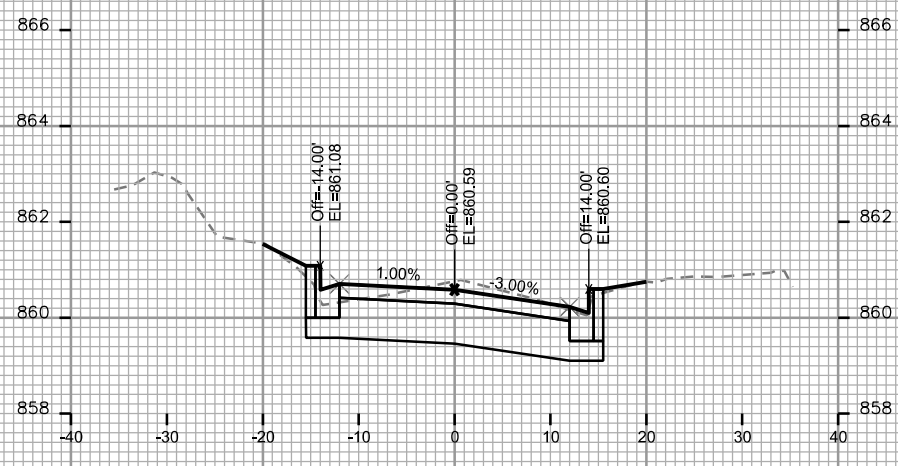


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

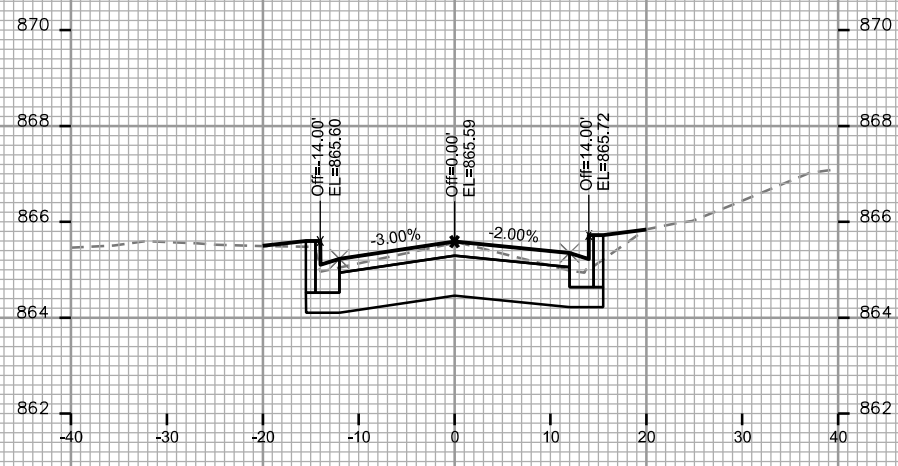


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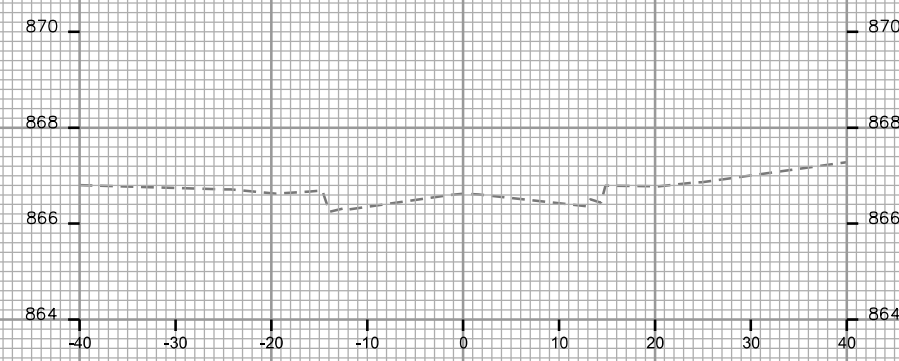
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REV. DATE: _____

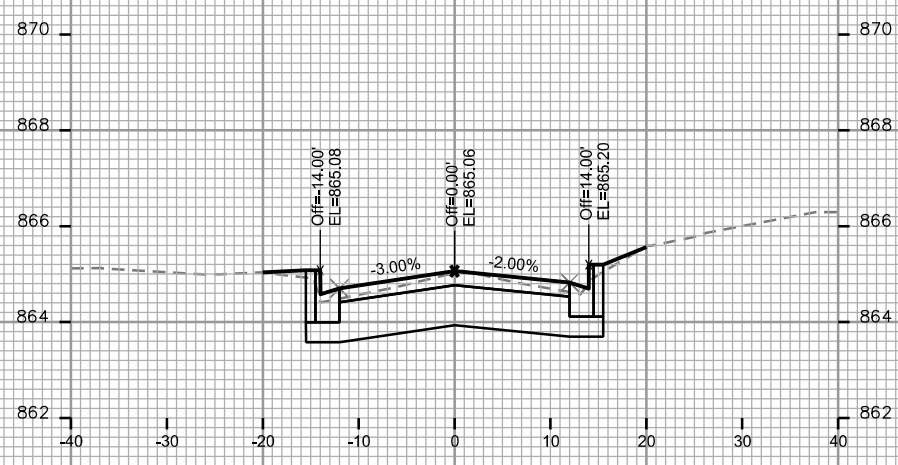
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



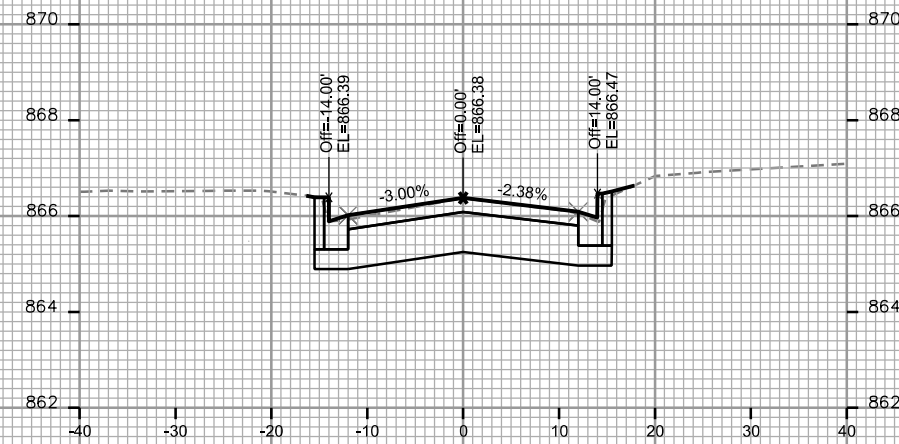
STA. 24+75



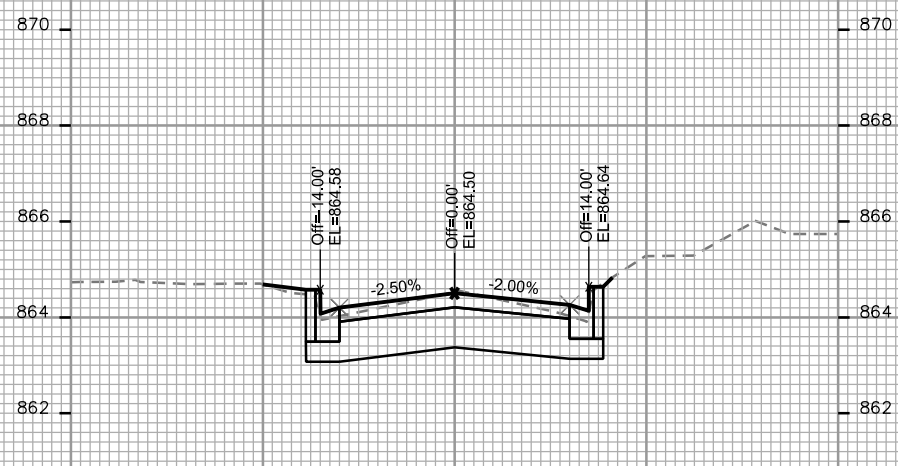
STA. 25+50



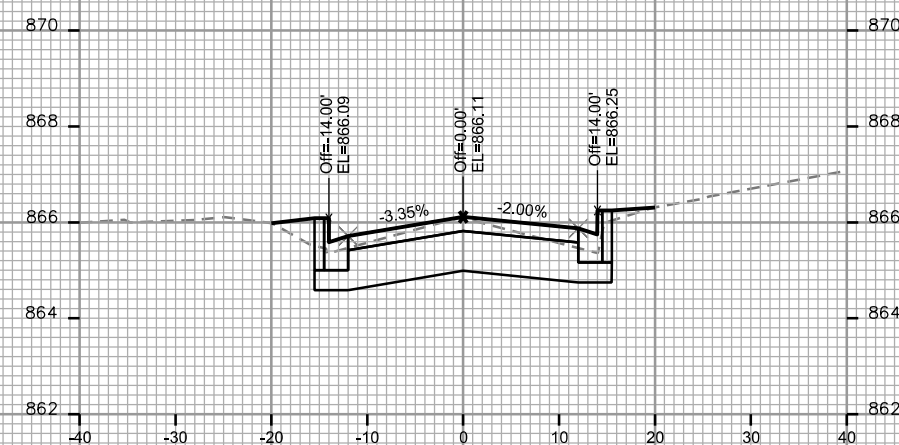
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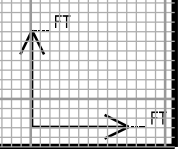
STA. 25+25



STA. 24+25



STA. 25+00

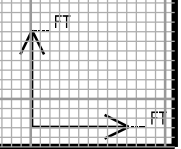
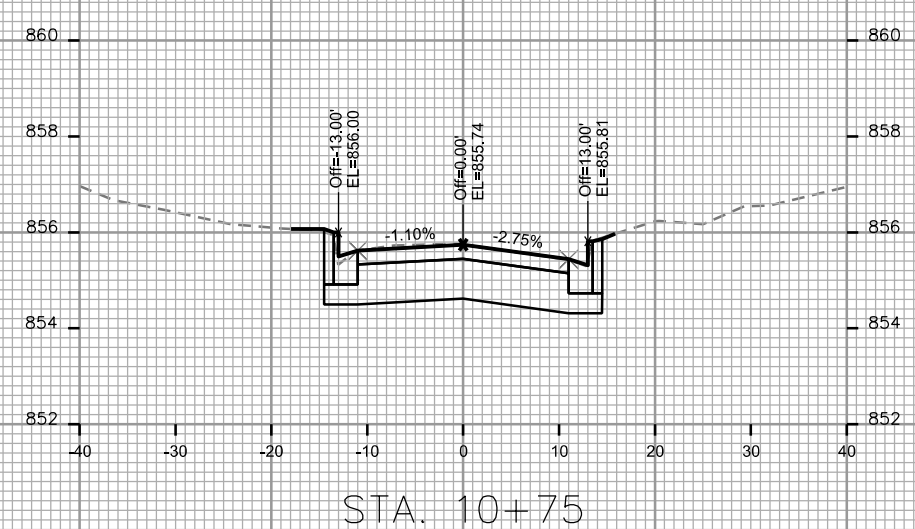
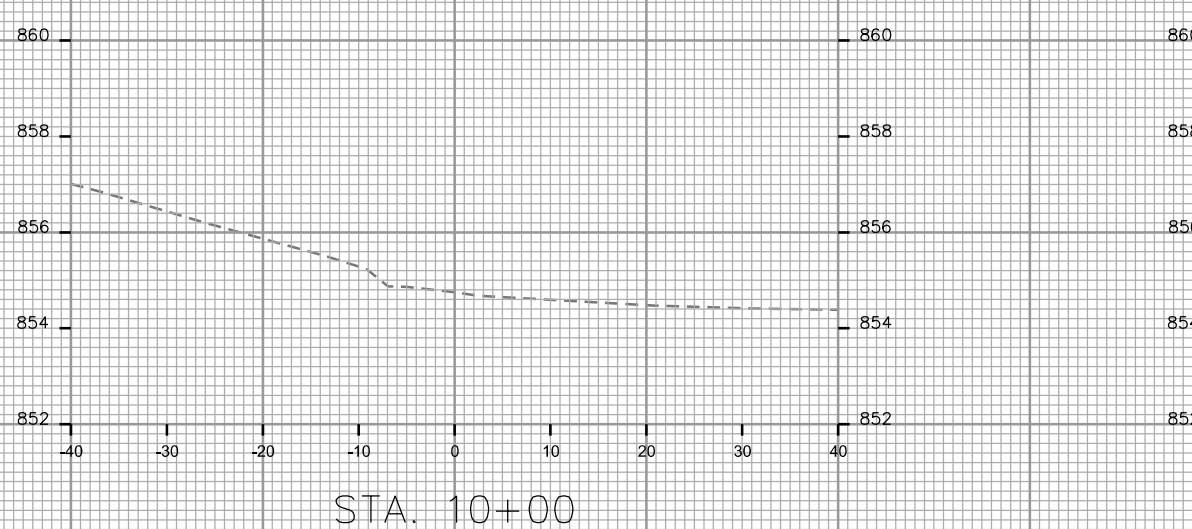
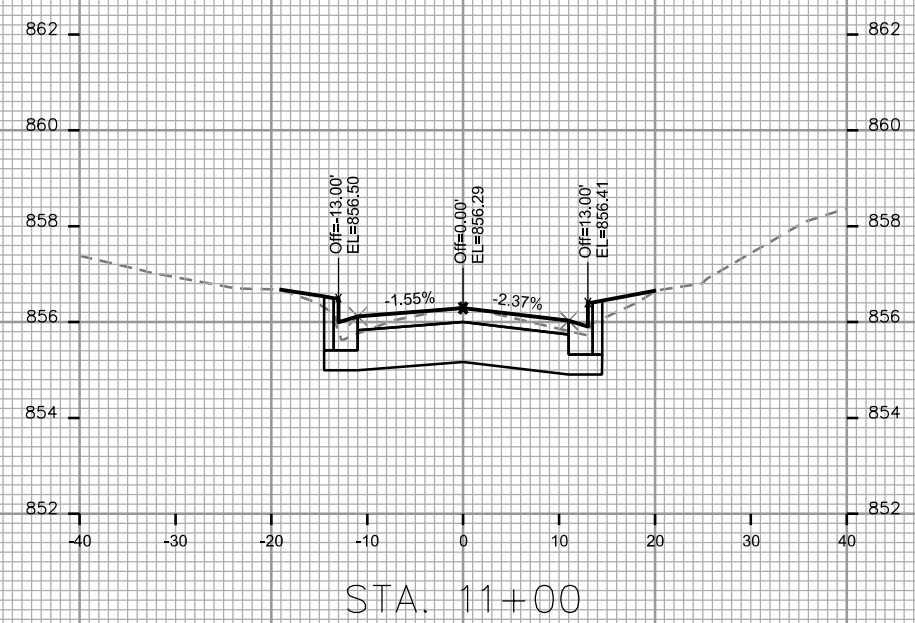
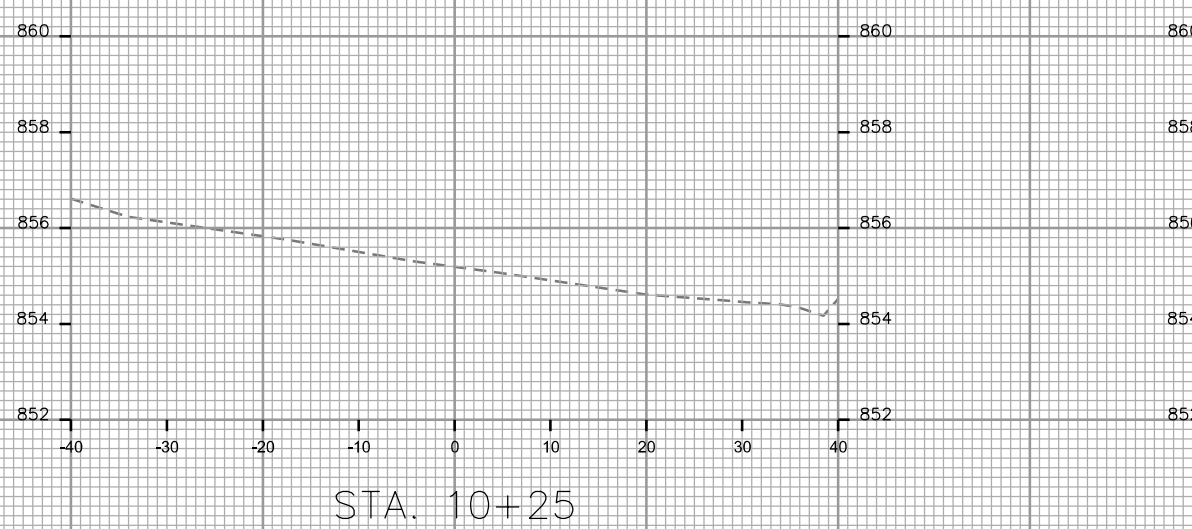
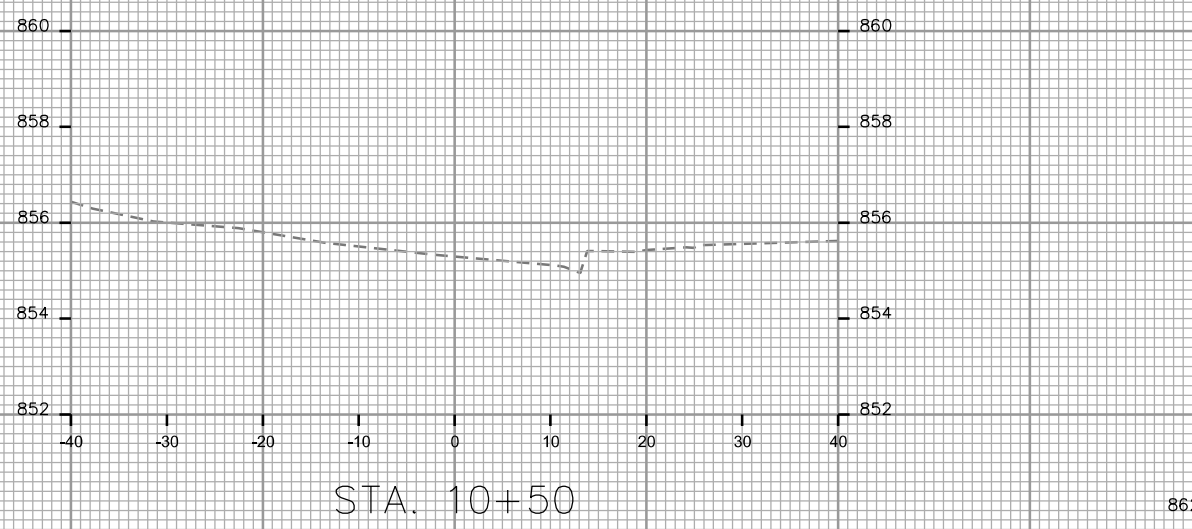


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

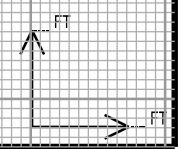
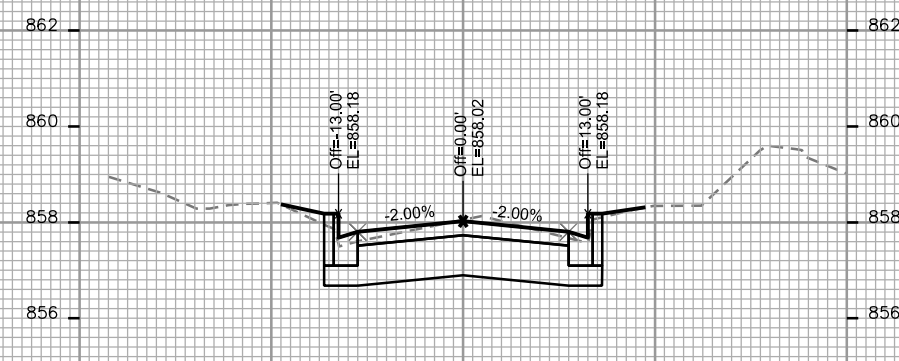
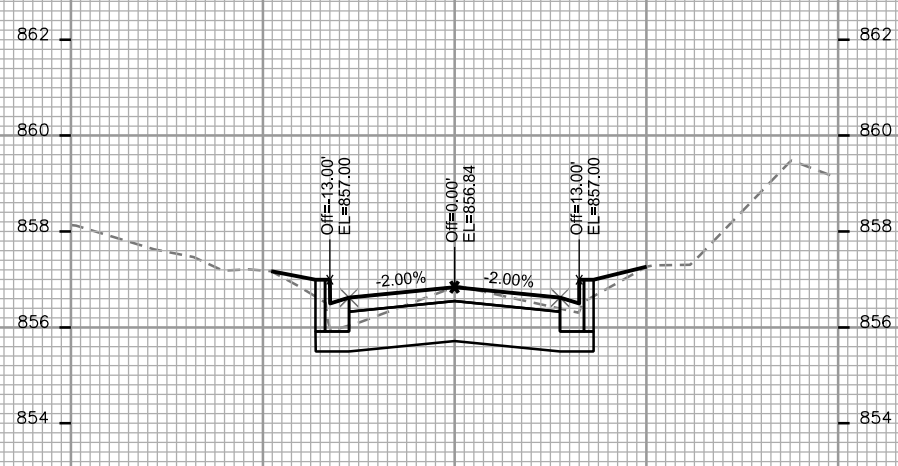
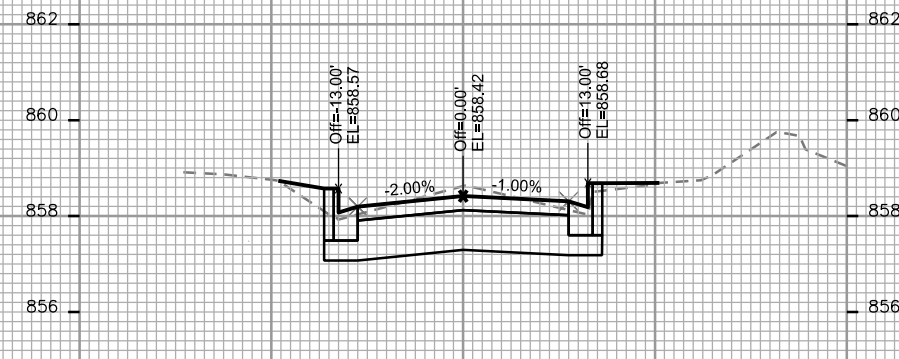
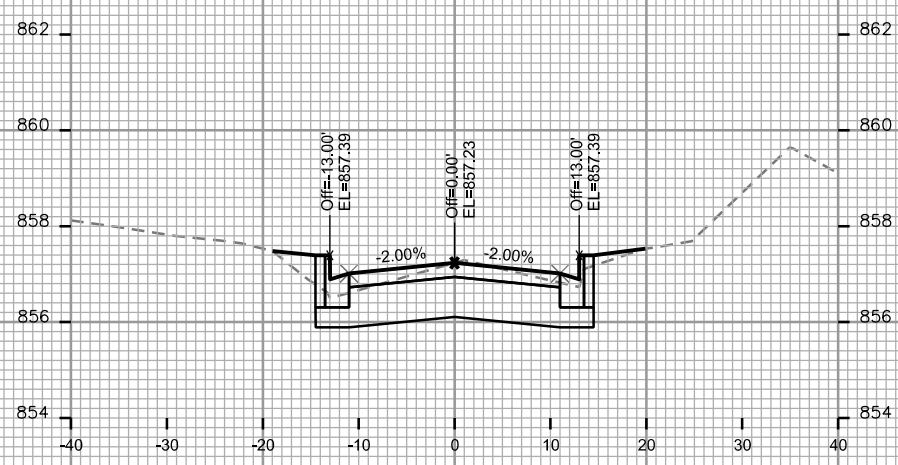
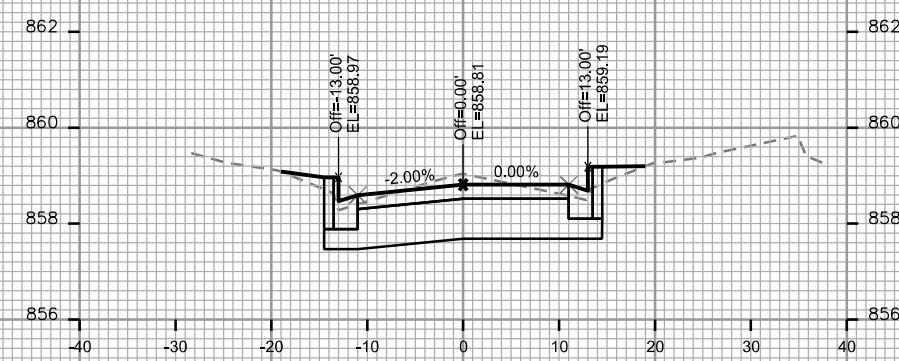
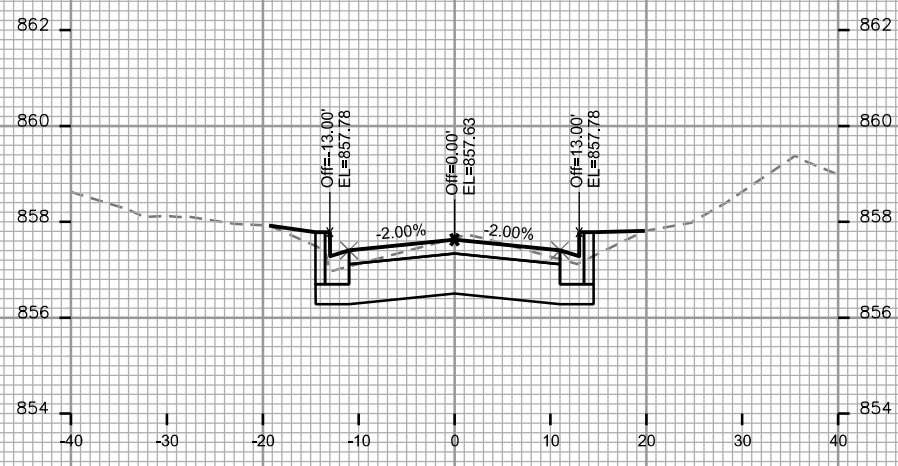


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



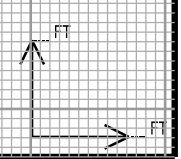
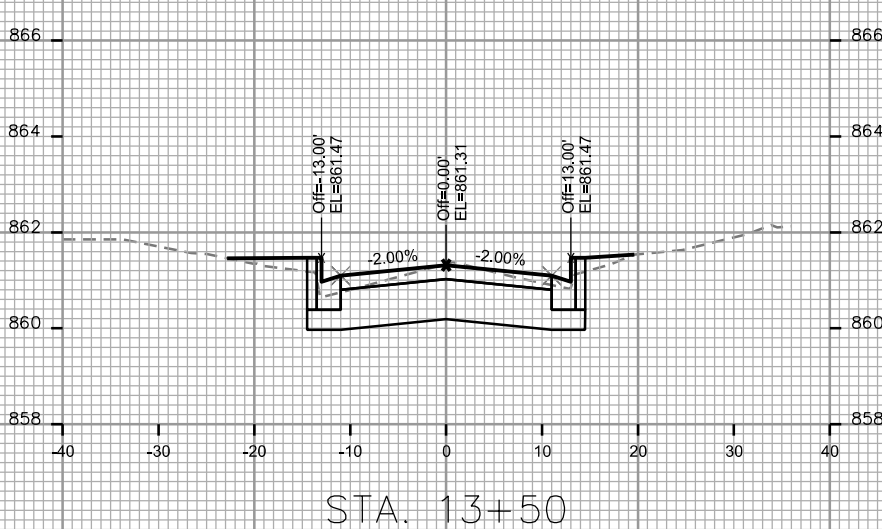
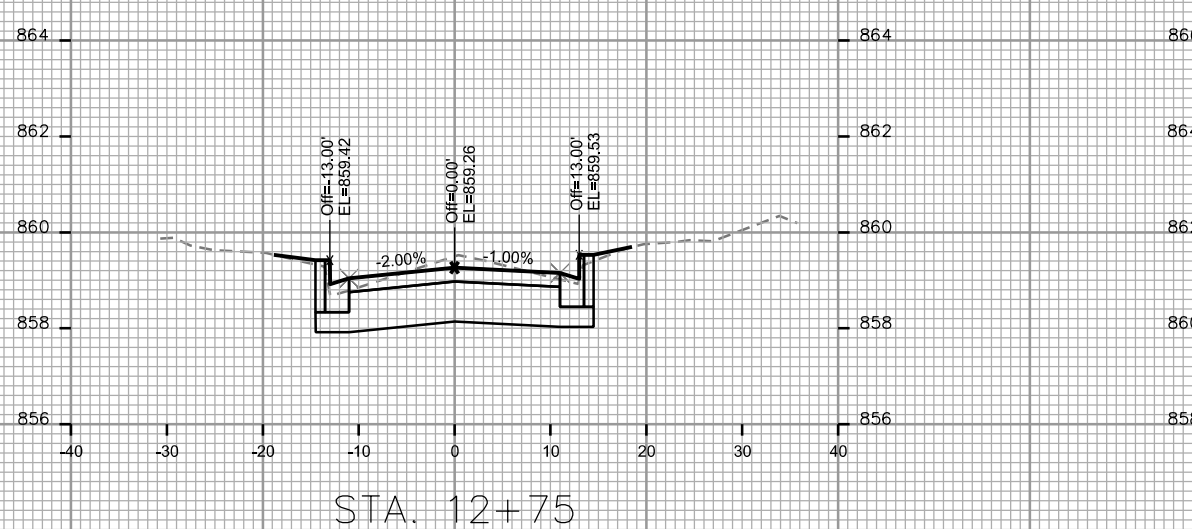
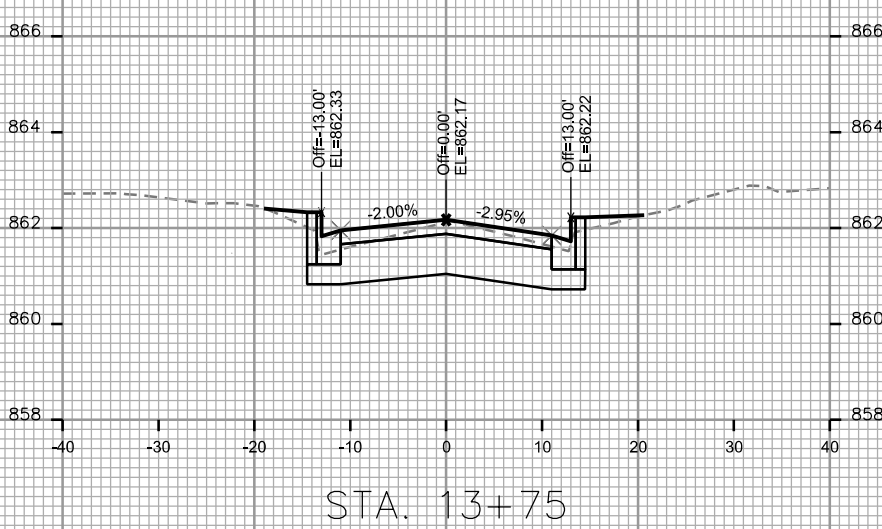
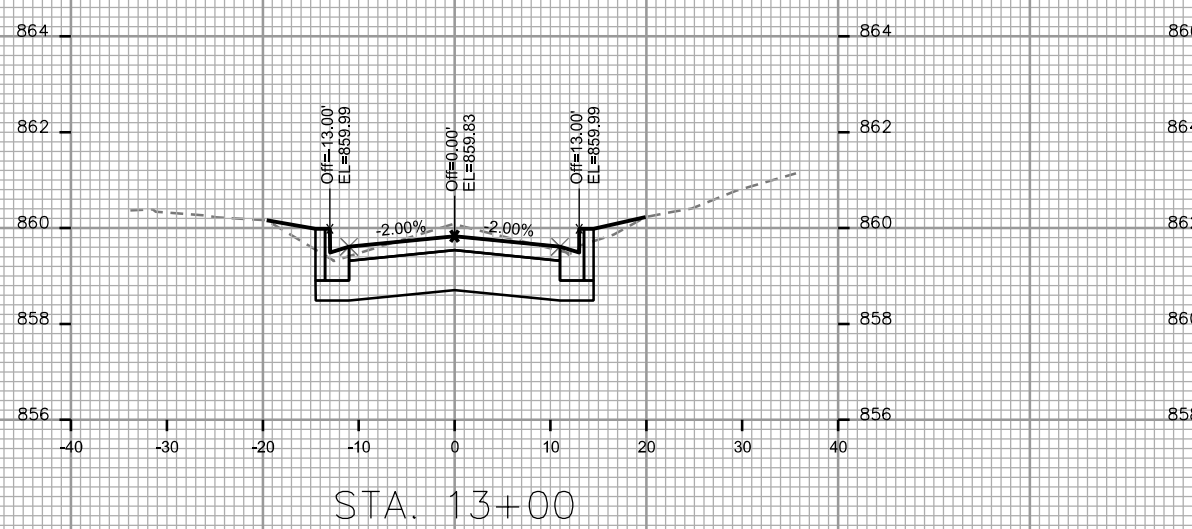
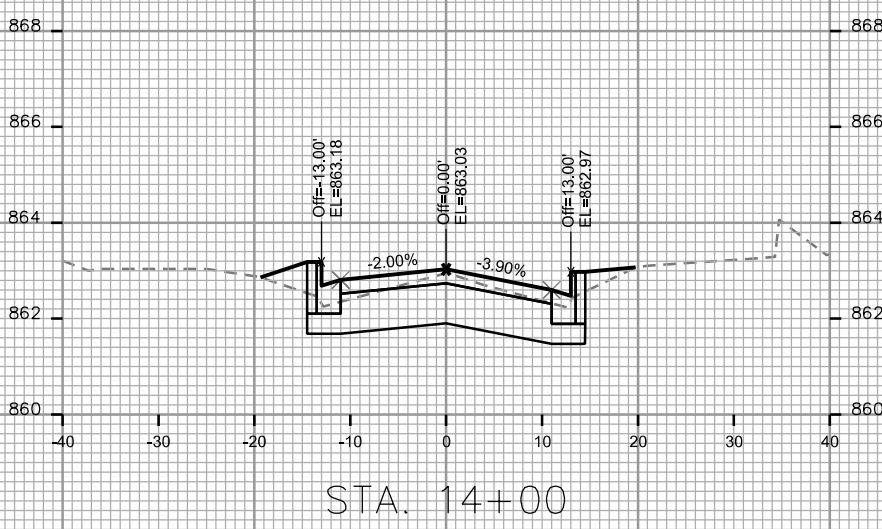
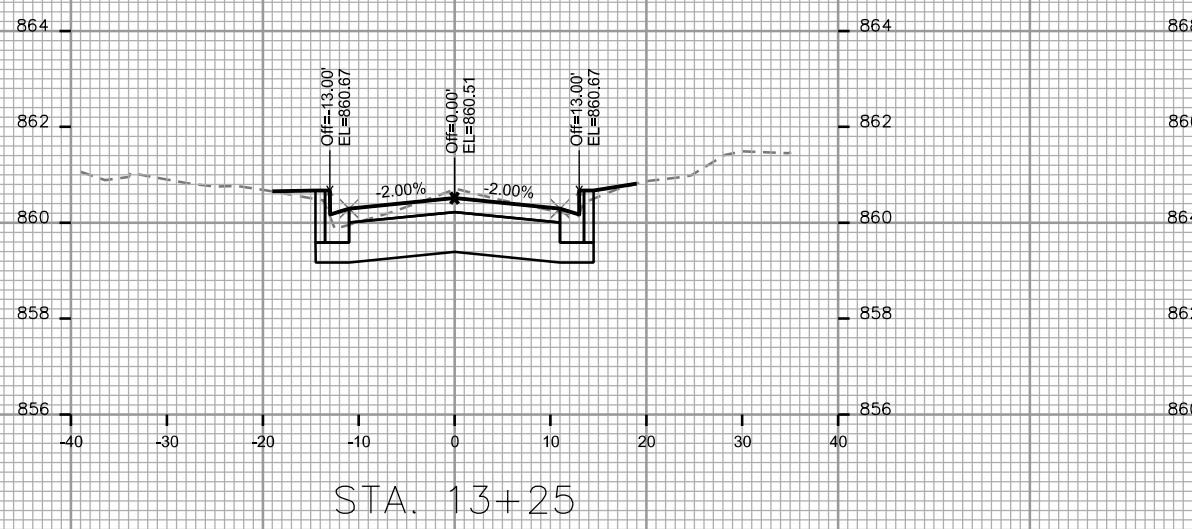
CROSS SECTIONS
SOMMERS AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

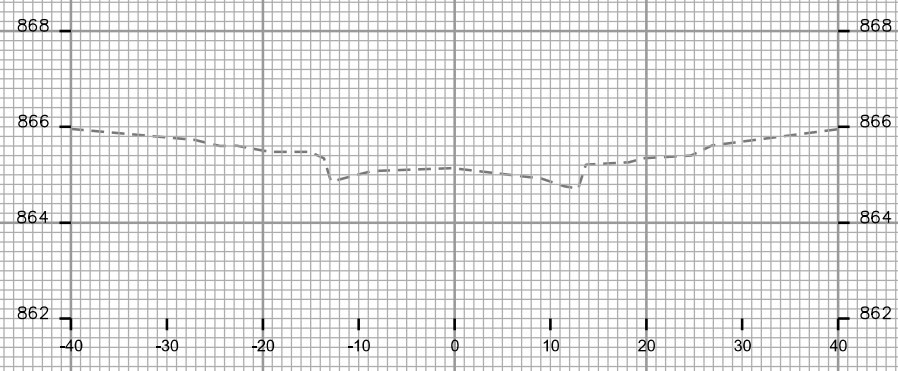


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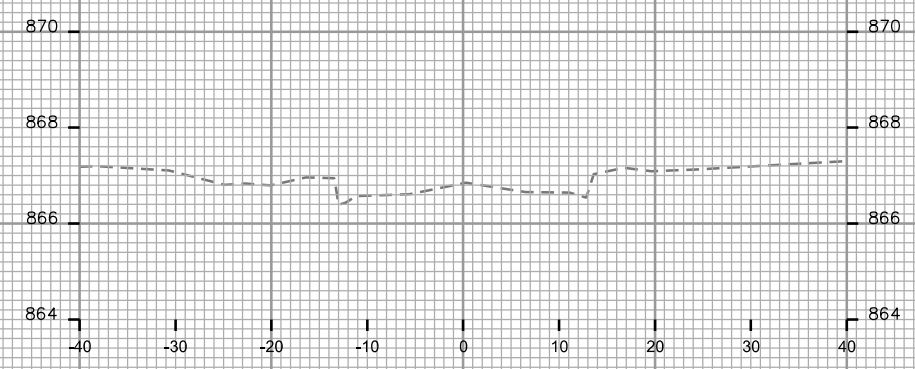
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REV. DATE: _____

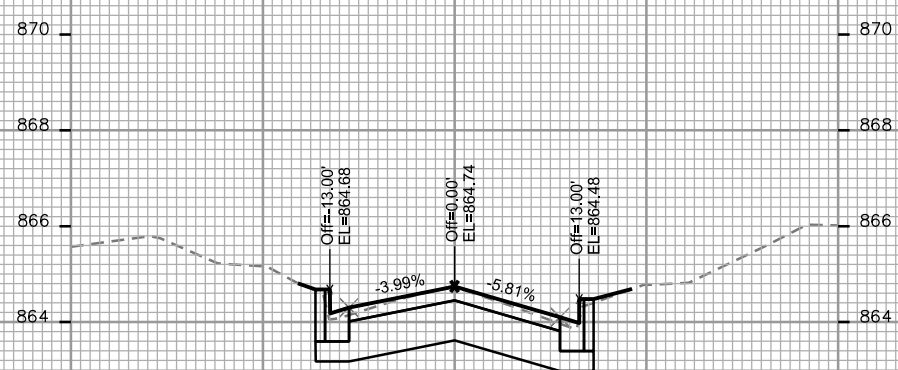
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



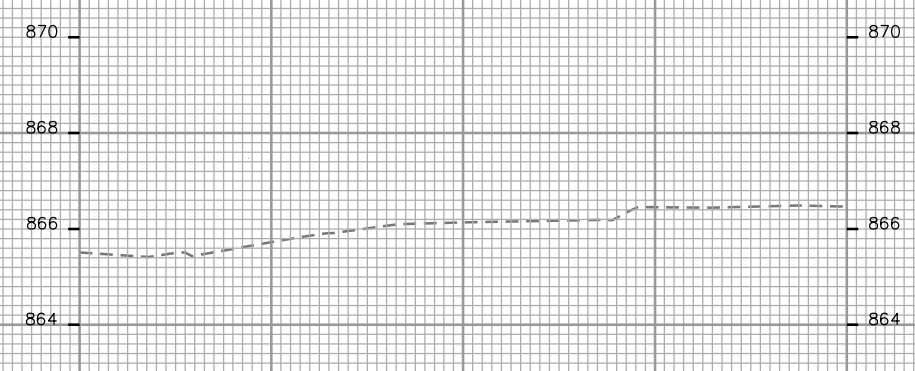
STA. 14+75



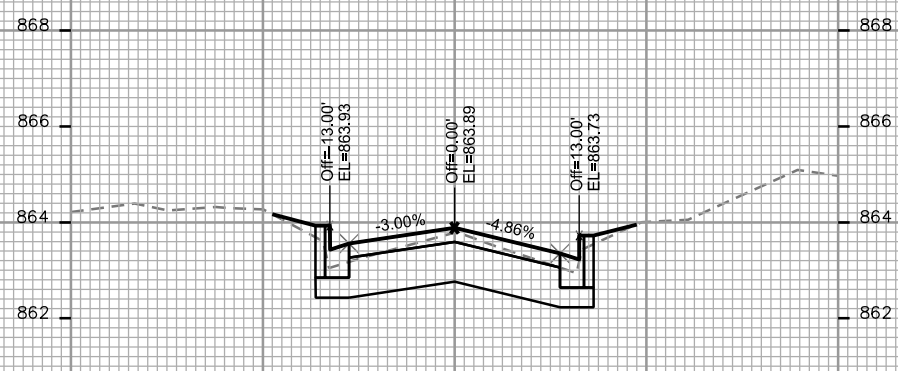
STA. 15+50



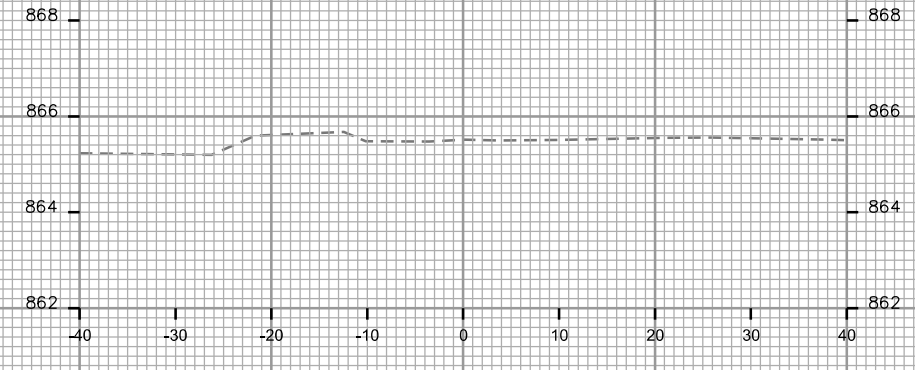
STA. 14+50



STA. 15+25



STA. 14+25



STA. 15+00

