

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 24, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 3/13/15
City Engineer Date

INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
DI	EROSION CONTROL PLANS
EC1-EC.7	STREET PLAN & PROFILES
PI-P8	UTILITY PLAN & PROFILES
U1-U8	UTILITY SCHEDULES
U9-U10	WATER PLAN & PROFILES
W1-W8	WATER SYSTEM IMPACT PLAN
W9-W12	TEMPORARY WATER SYSTEM PLAN
W13-W14	WATER DETAILS/ESTIMATE OF MATERIALS
W15	

SHEET NO. RG1 RAIN GARDENS

ADAMS ST., RANDALL AVE. AND MOUND ST. RESURFACING ASSESSMENT DISTRICT-2015

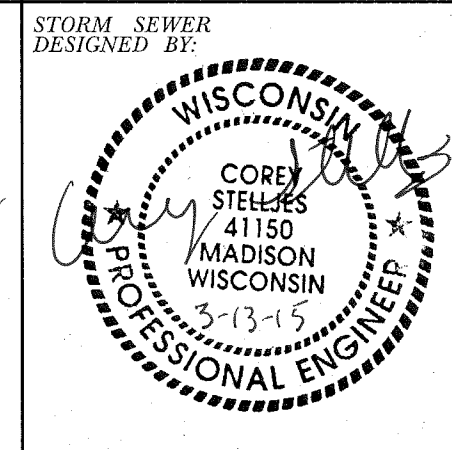
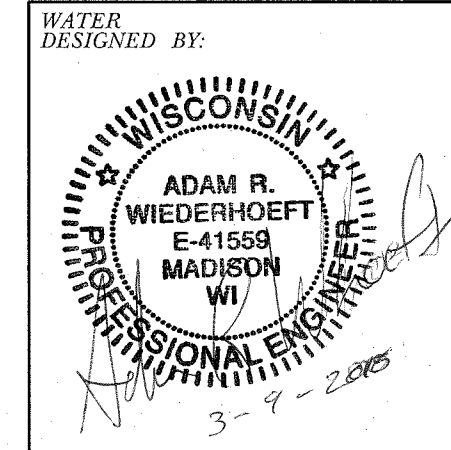
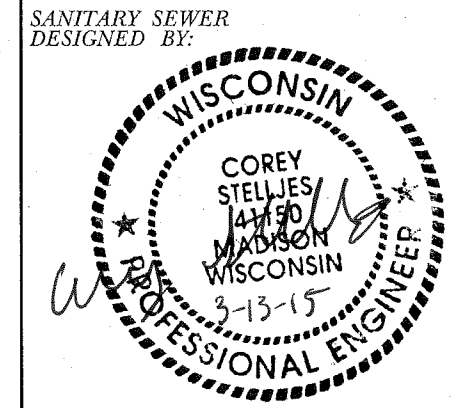
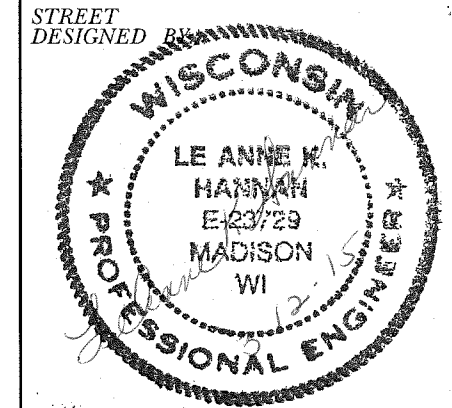
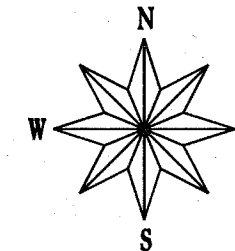
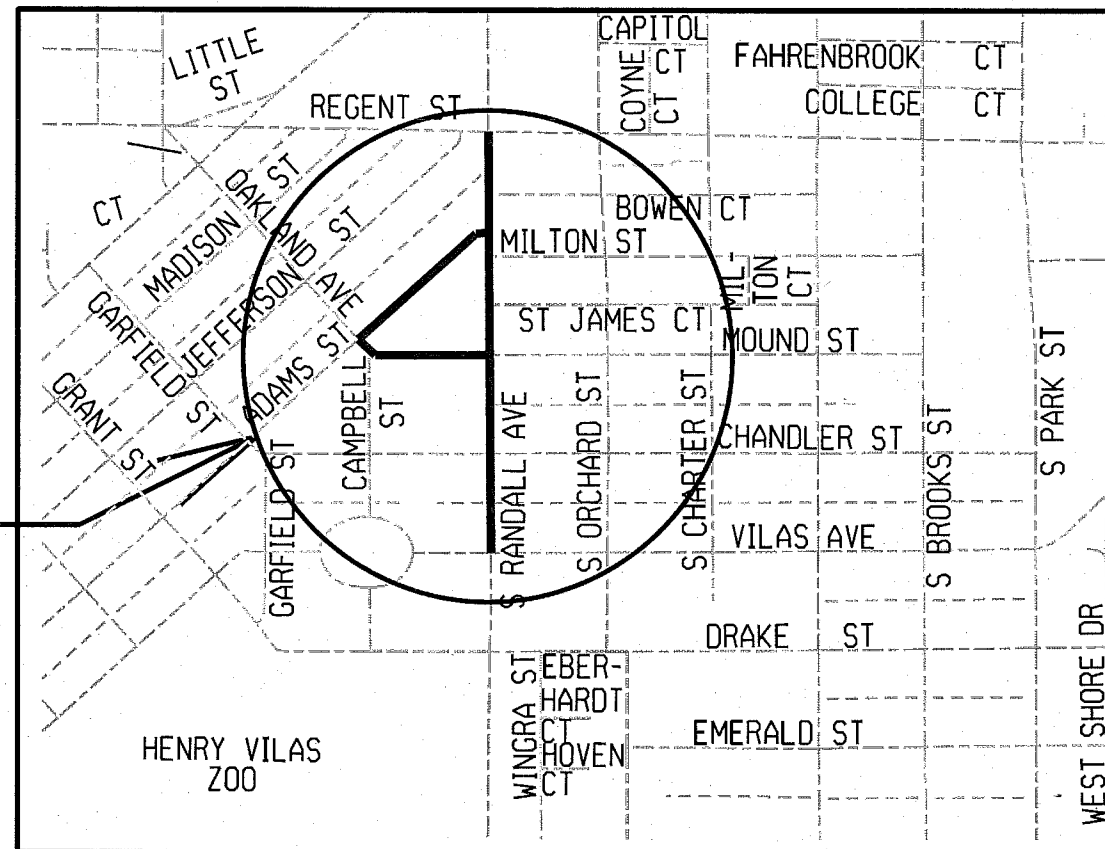
CITY PROJECT NO. 53W1847 MUNIS NO. 10258

CITY CONTRACT NO. 7428

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

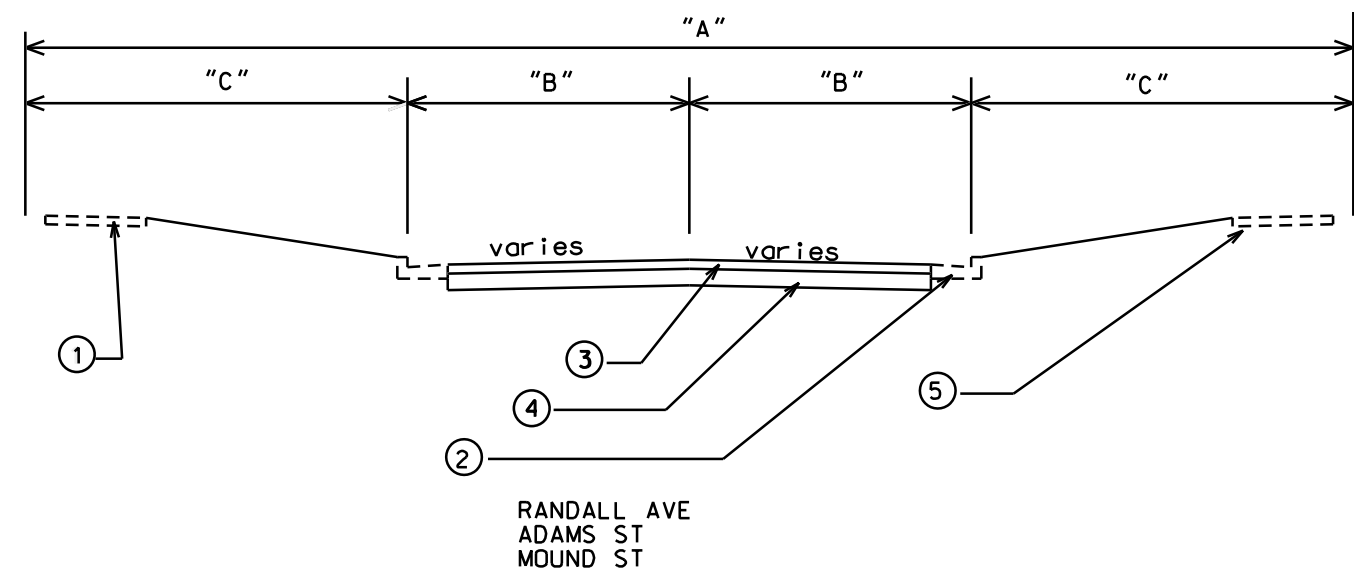
NOTES:

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).....3605 C.Y.
 ESTIMATED UNDISTRIBUTED UNDERCUT.....478 C.Y.
 TOTAL UNCLASSIFIED EXCAVATION CUT.....4083 C.Y.



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

STREET	"A"	"B"	"C"
RANDALL AVE (STA 11+13 - STA 20+92)	66'	15'	18'
RANDALL AVE (STA 22+50 - STA 27+33.5)	66'	17'	16'
ADAMS ST	66'	16'	17'
MOUND ST	80'	15'	25'

PLOT SCALE: _____

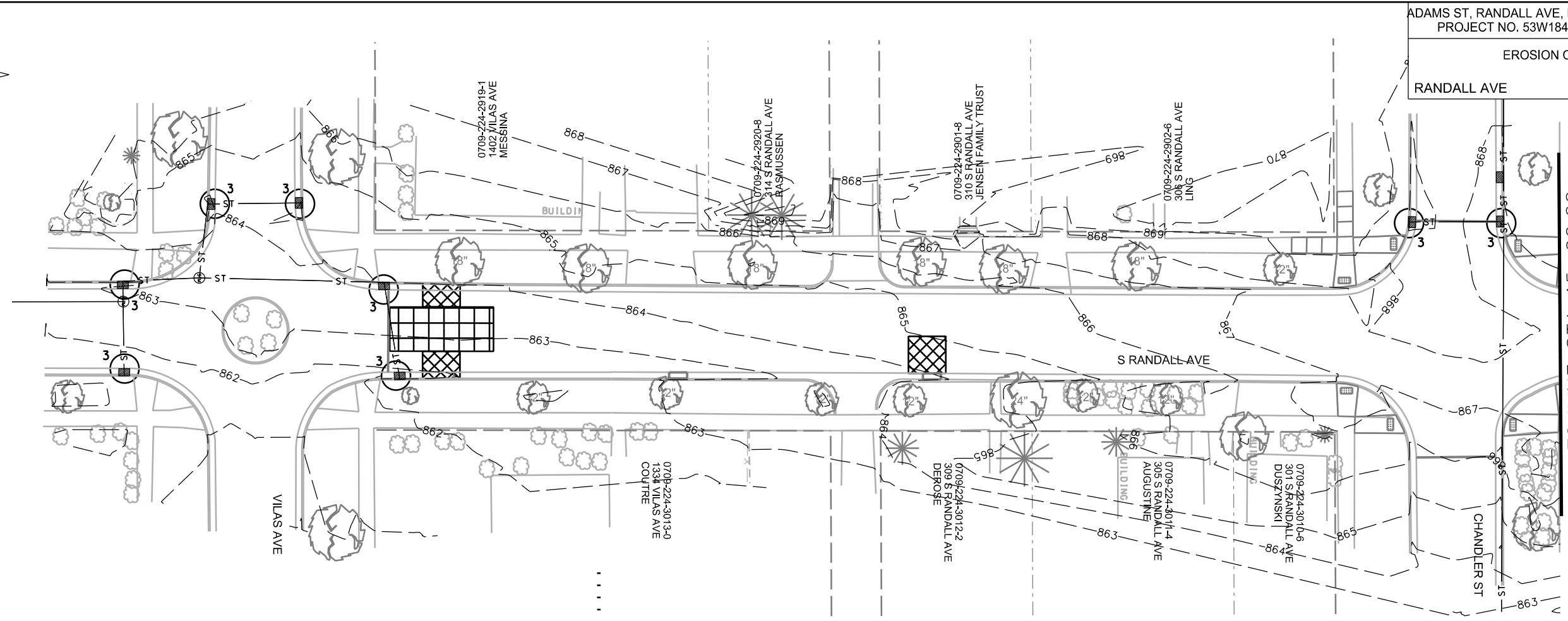
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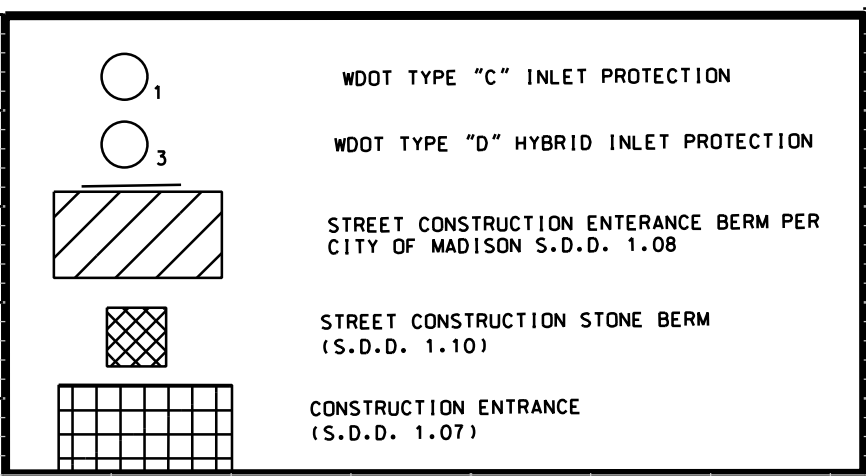
ORIGINATOR: _____

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

EROSION CONTROL PLAN
RANDALL AVE CITY OF MADISON



MATCHLINE STA 15+00.00



EROSION CONTROL NOTES:

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.

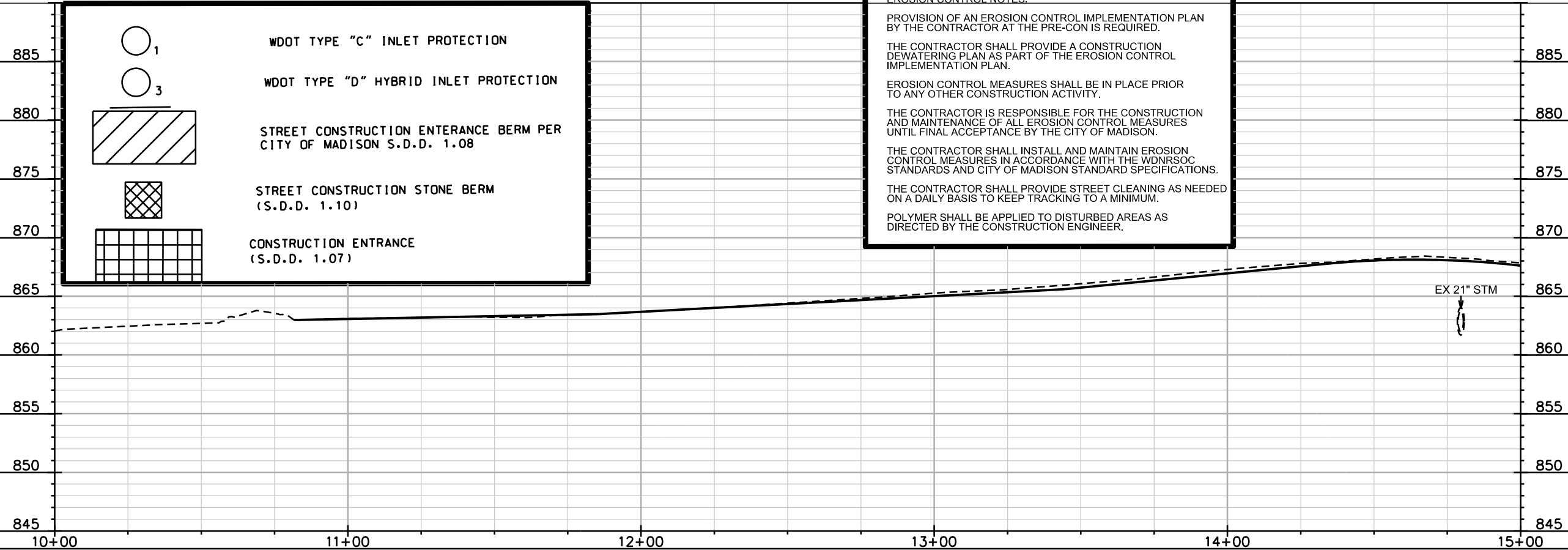
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

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.

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

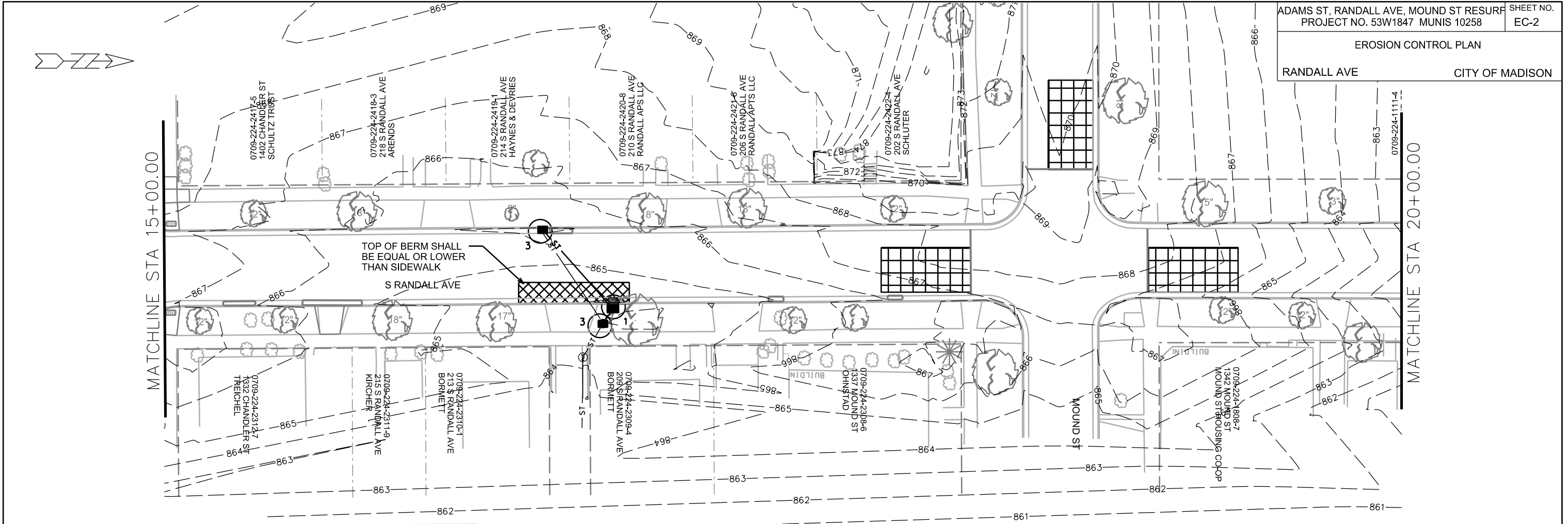


PLOT SCALE: _____

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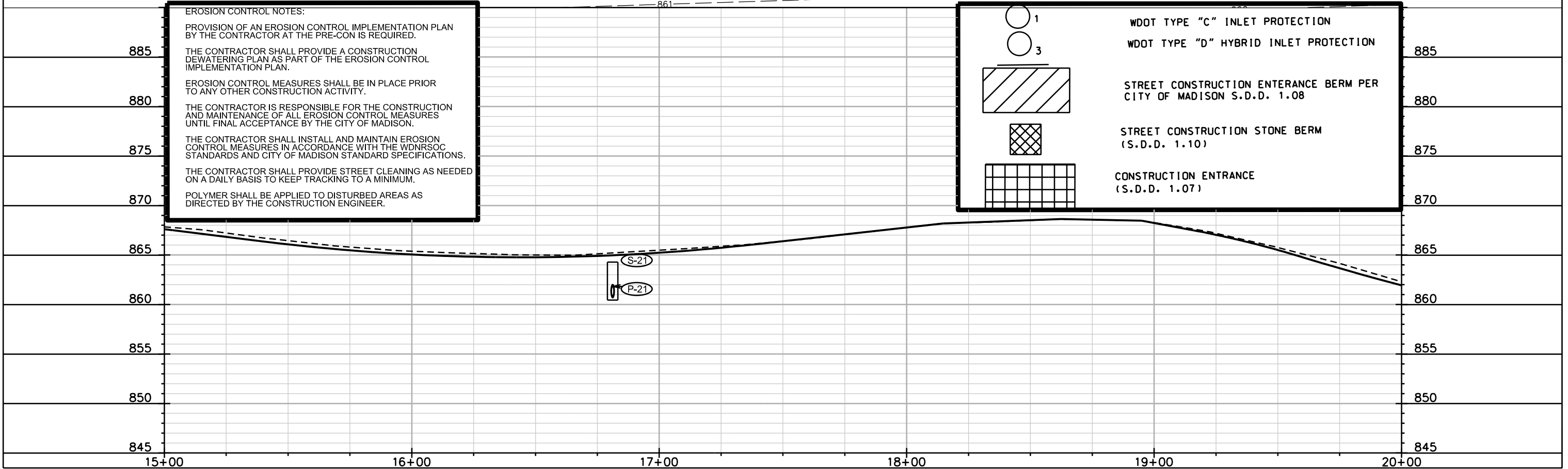
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	WDOT TYPE "C" INLET PROTECTION
	WDOT TYPE "D" HYBRID INLET PROTECTION
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	STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)
	CONSTRUCTION ENTRANCE (S.D.D. 1.07)

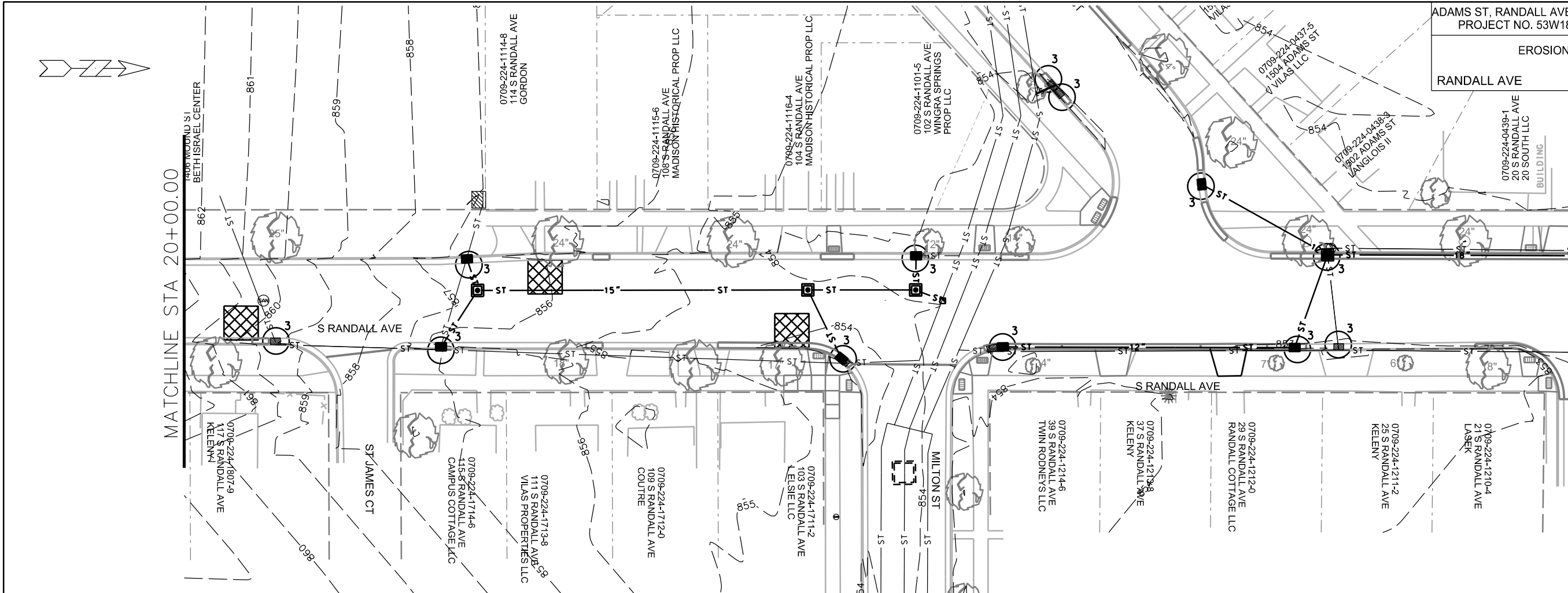


PLOT SCALE: _____

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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00

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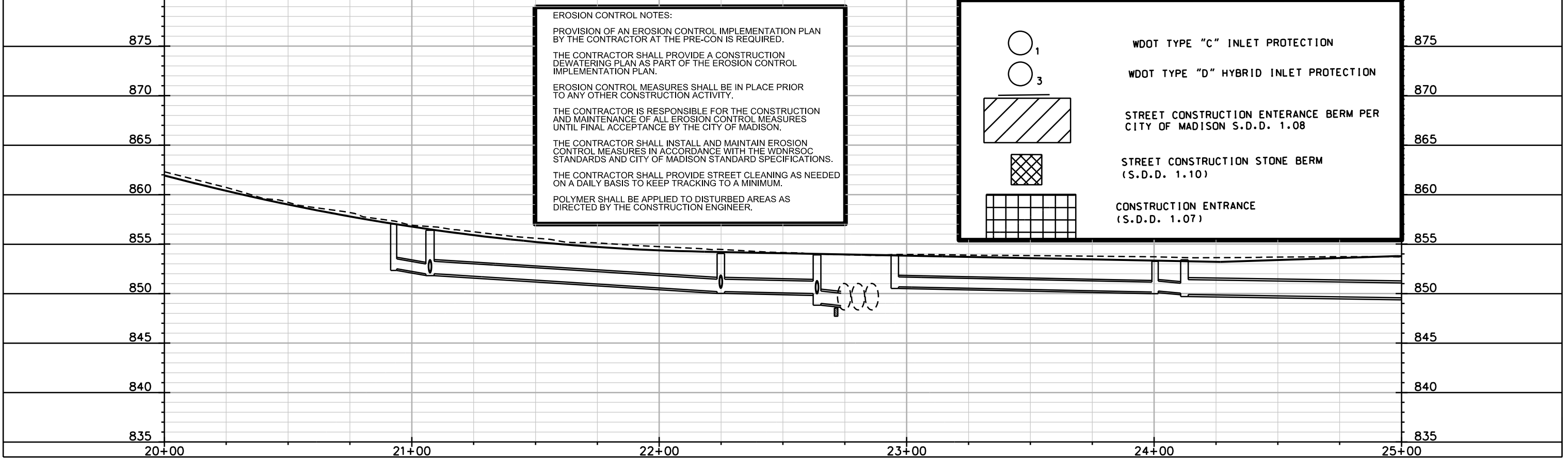
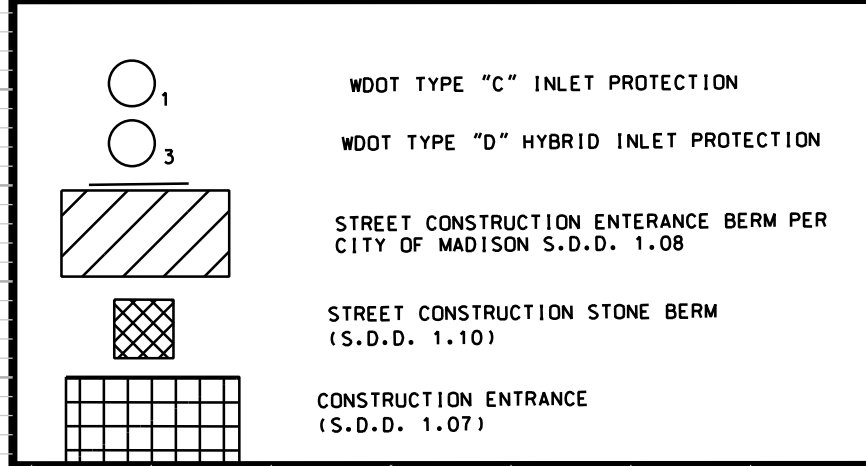
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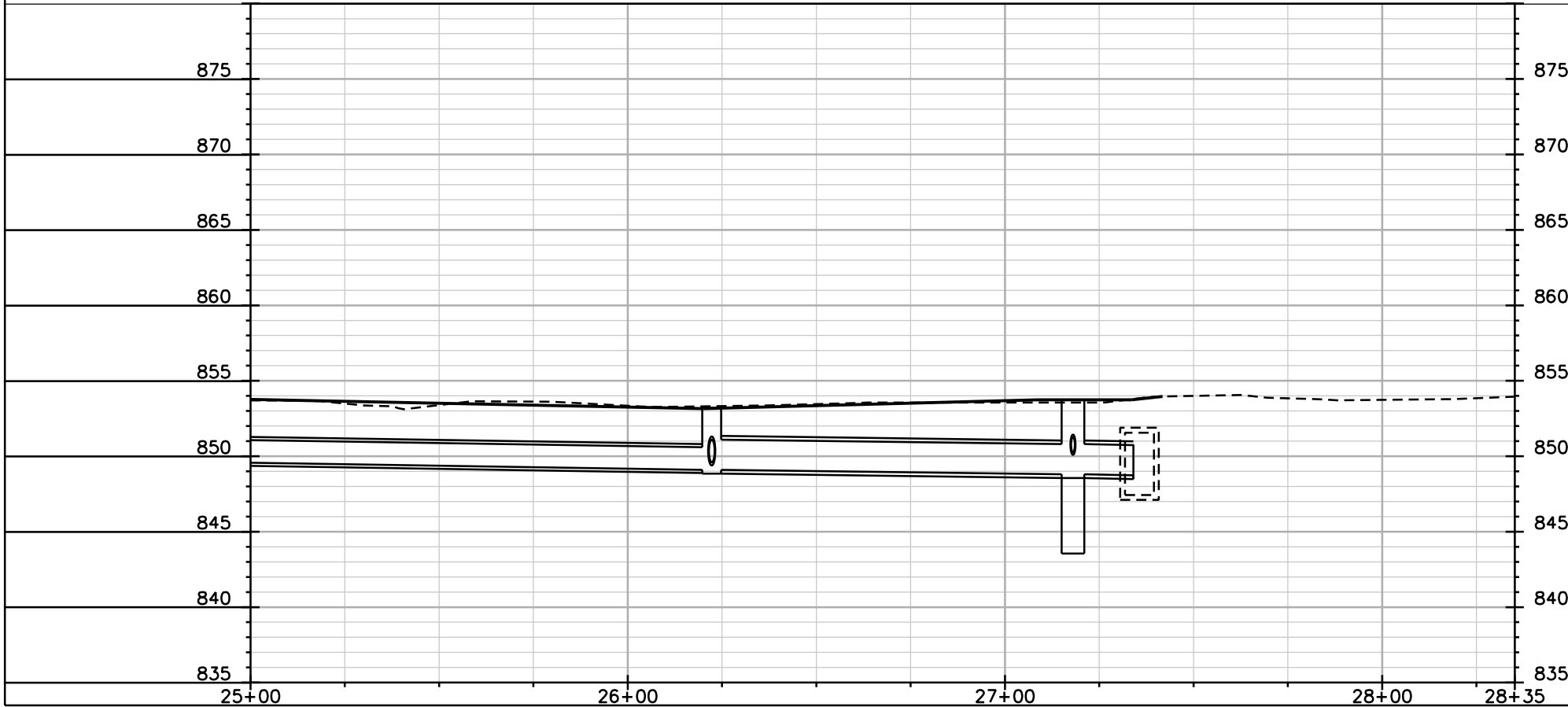
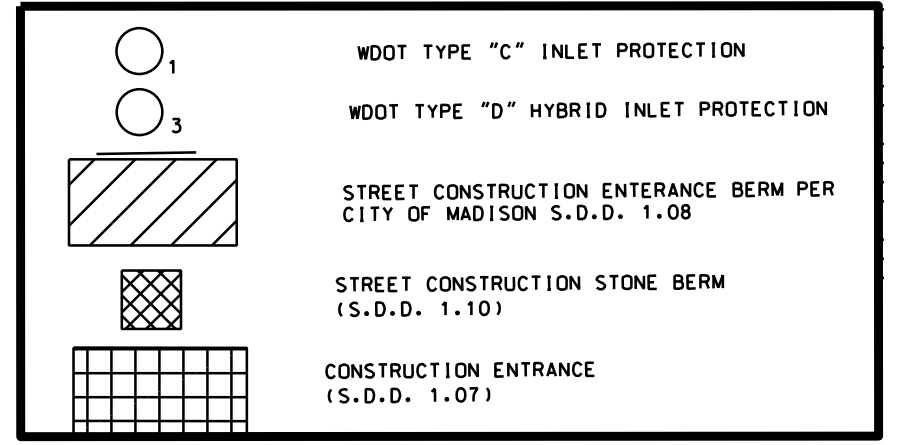
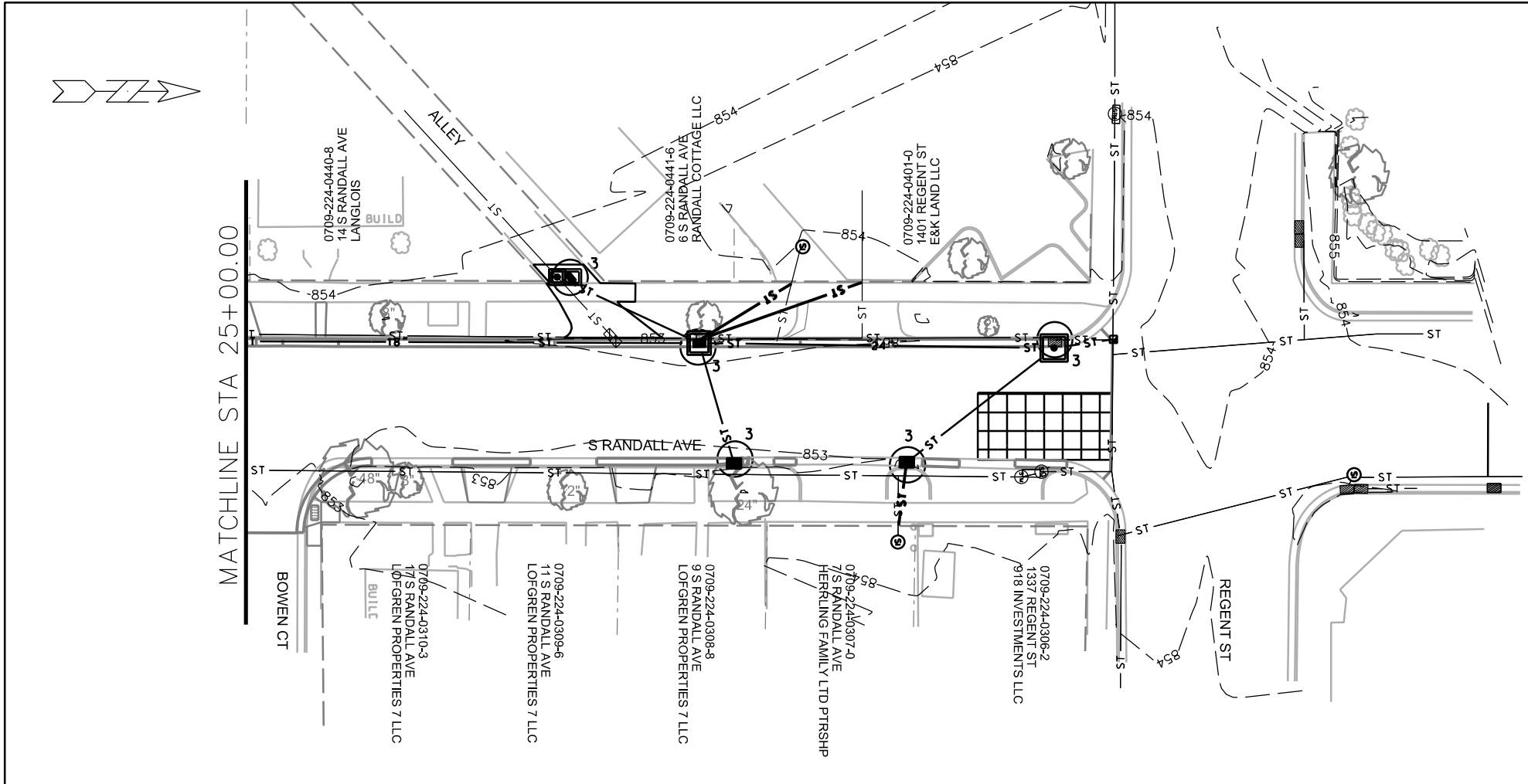


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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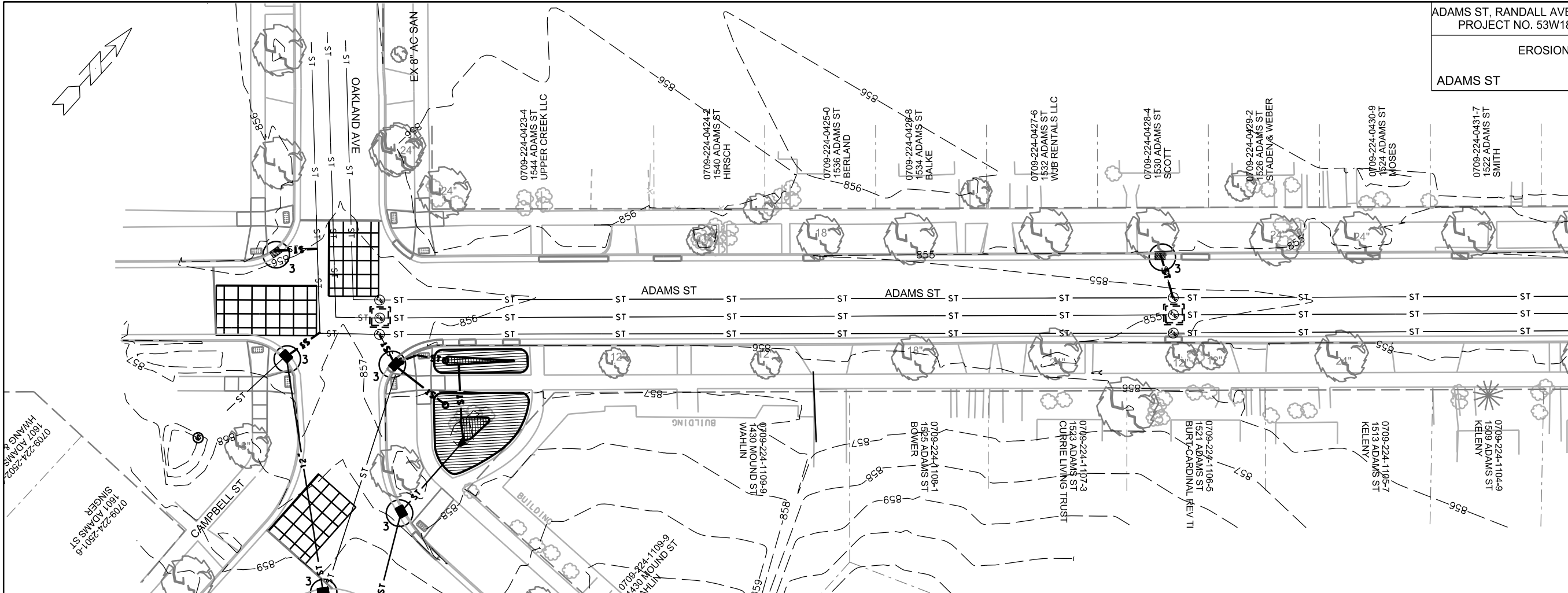
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MATCHLINE STA 70+00.00

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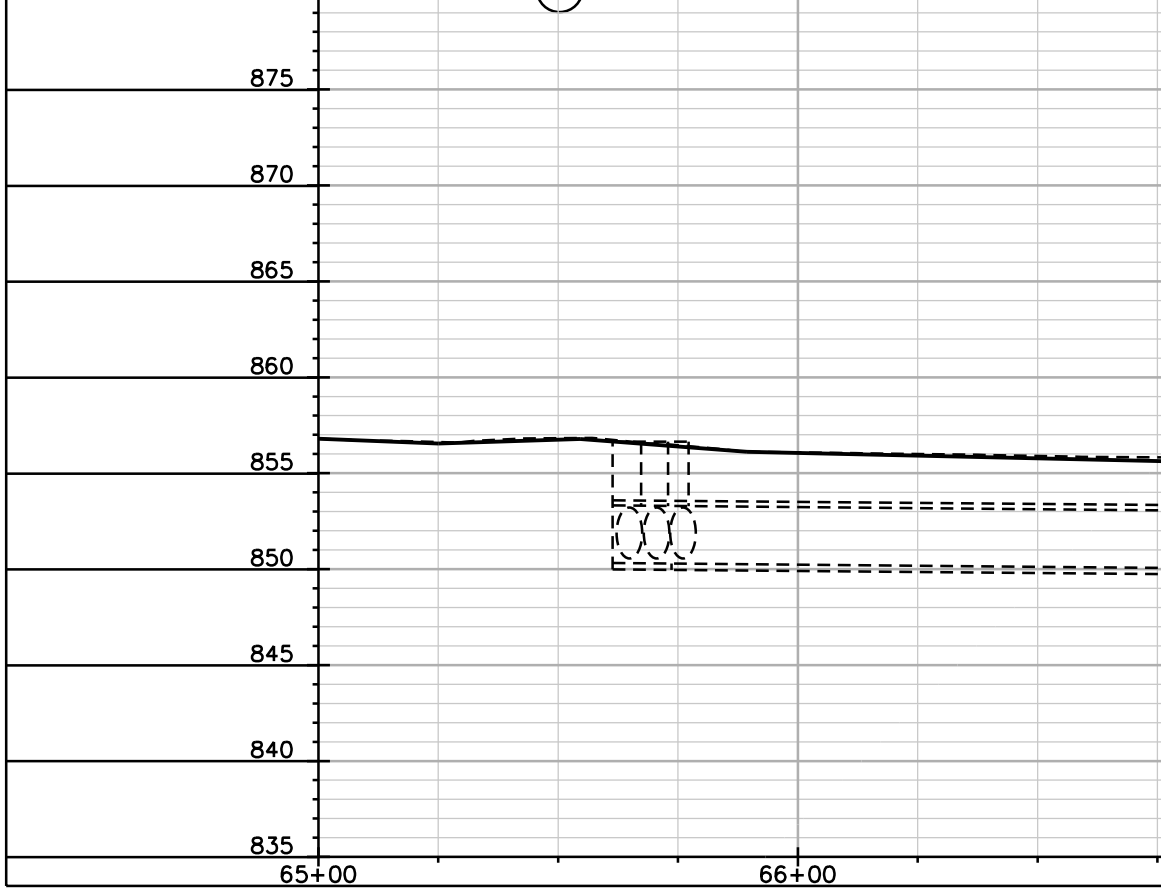
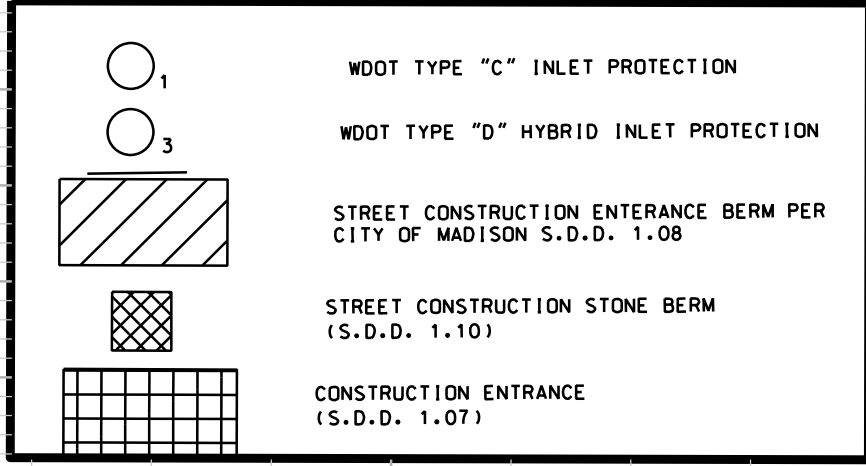
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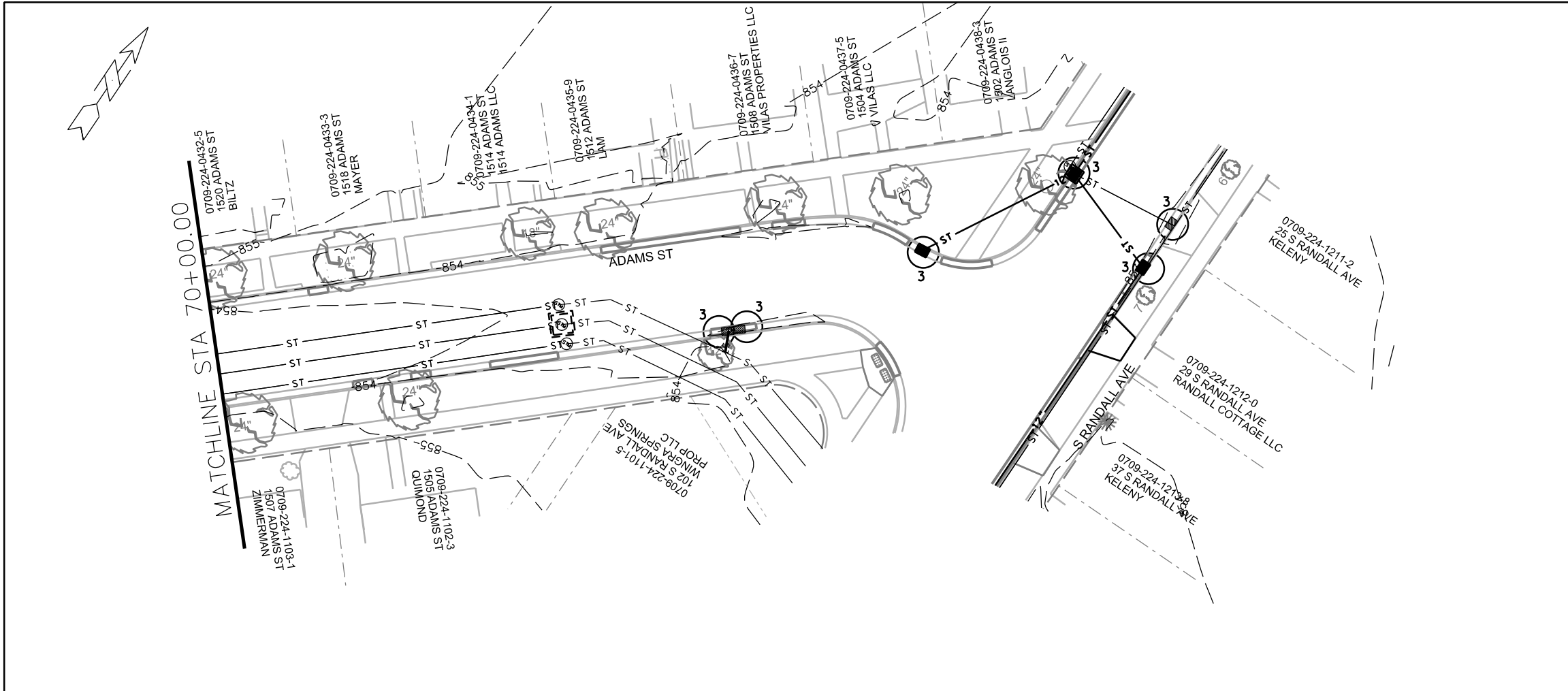
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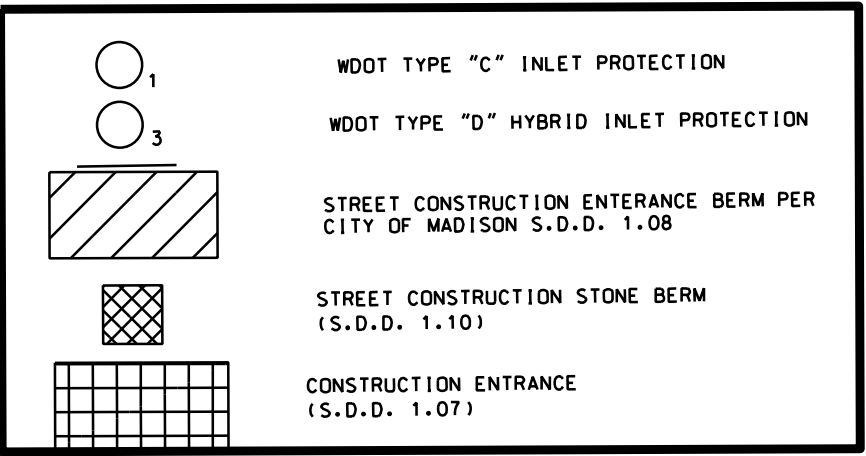
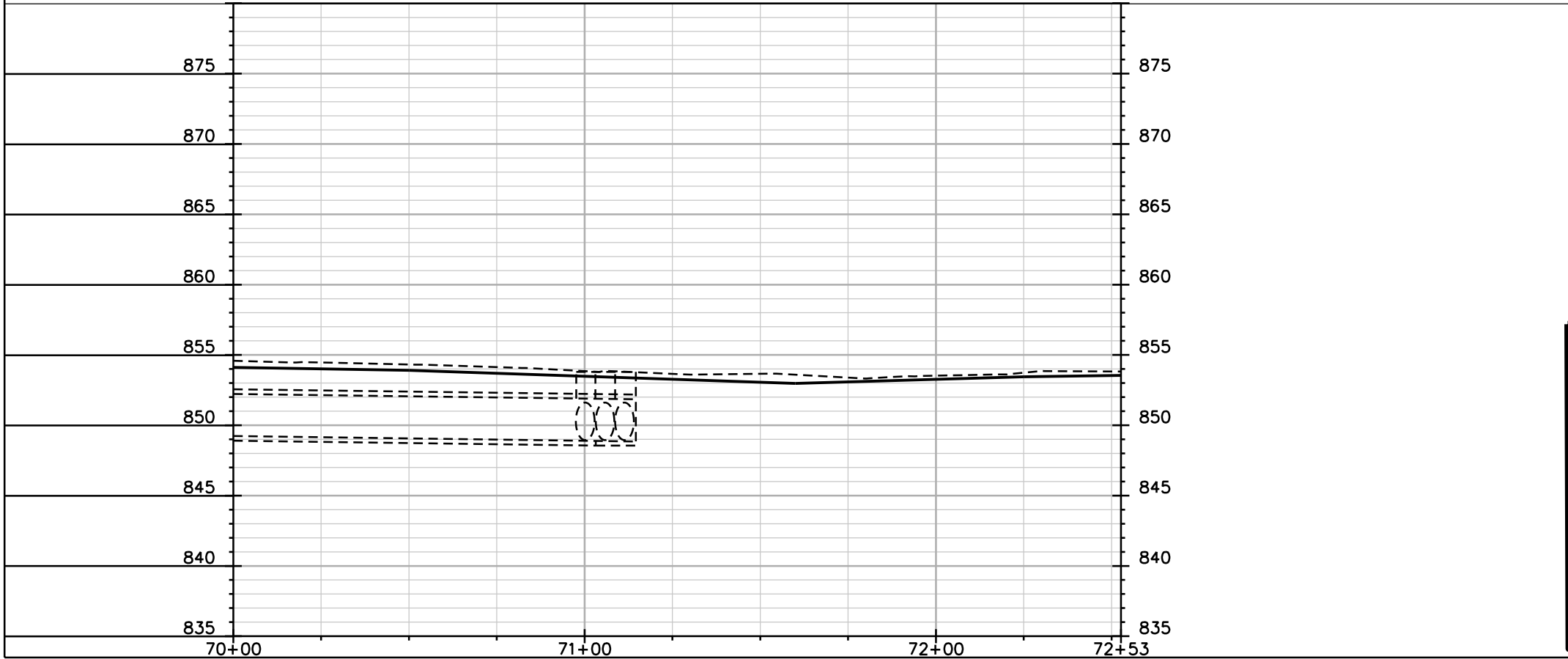
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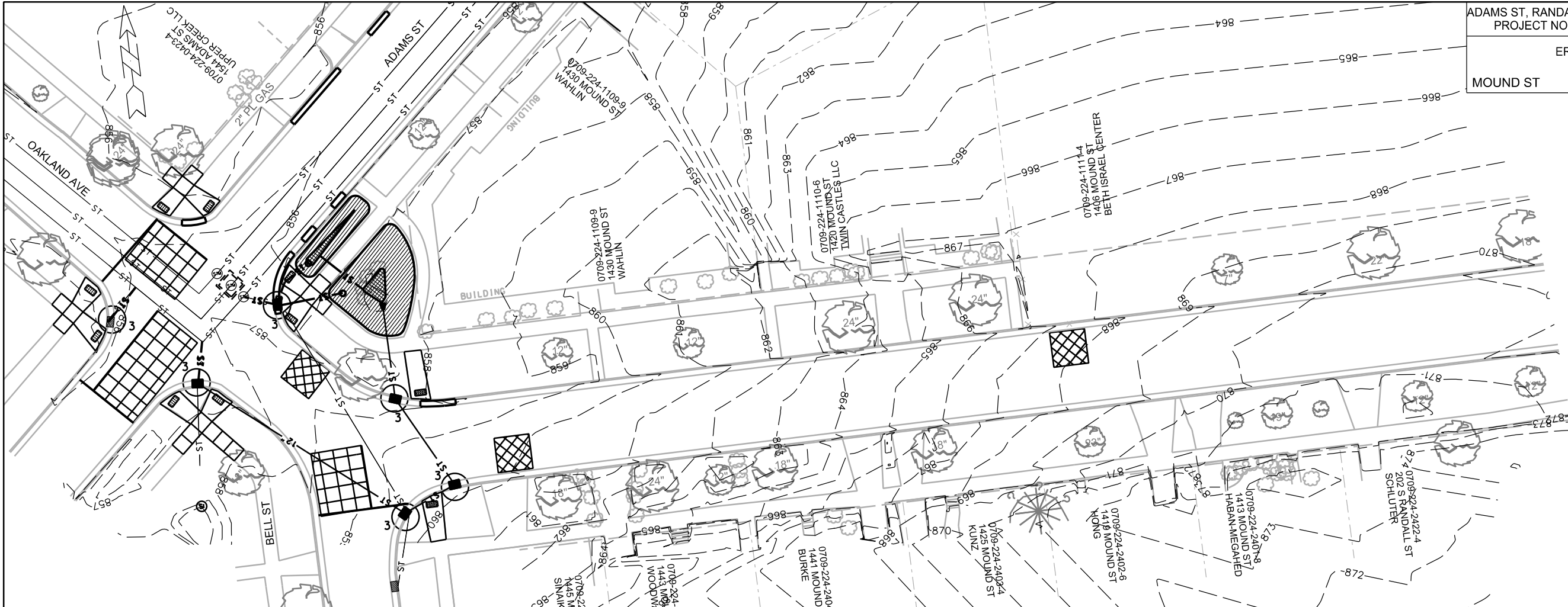


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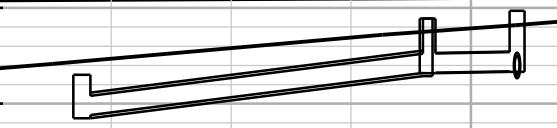
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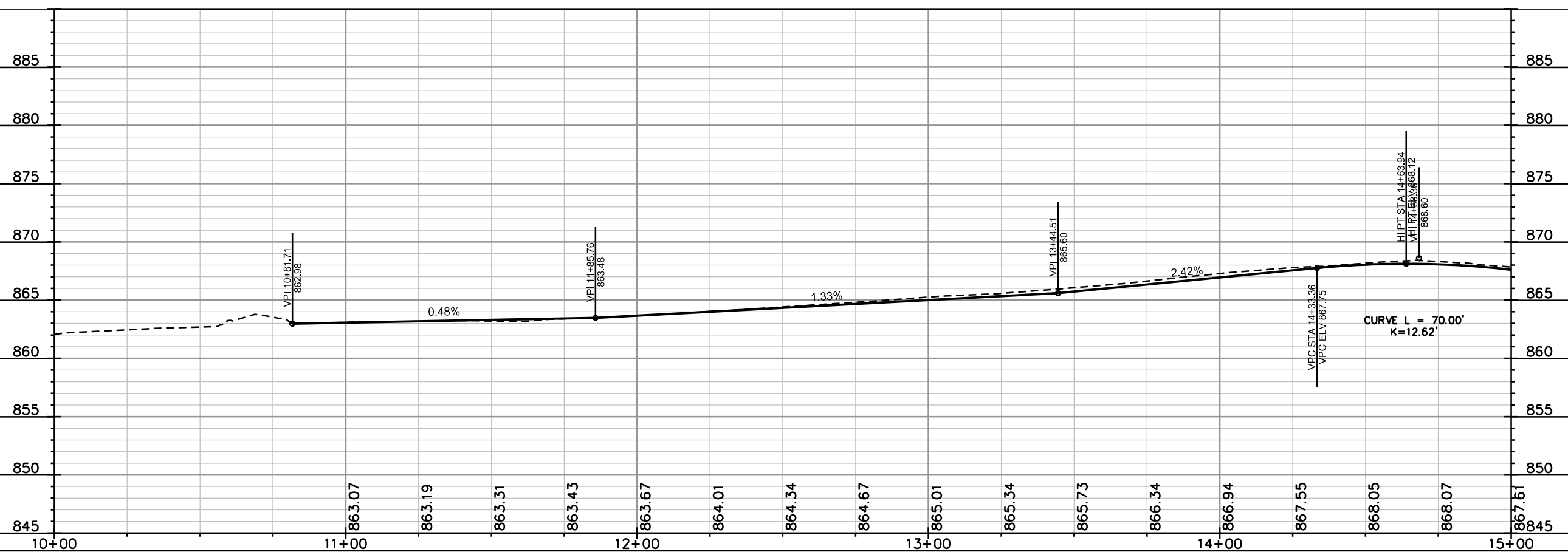
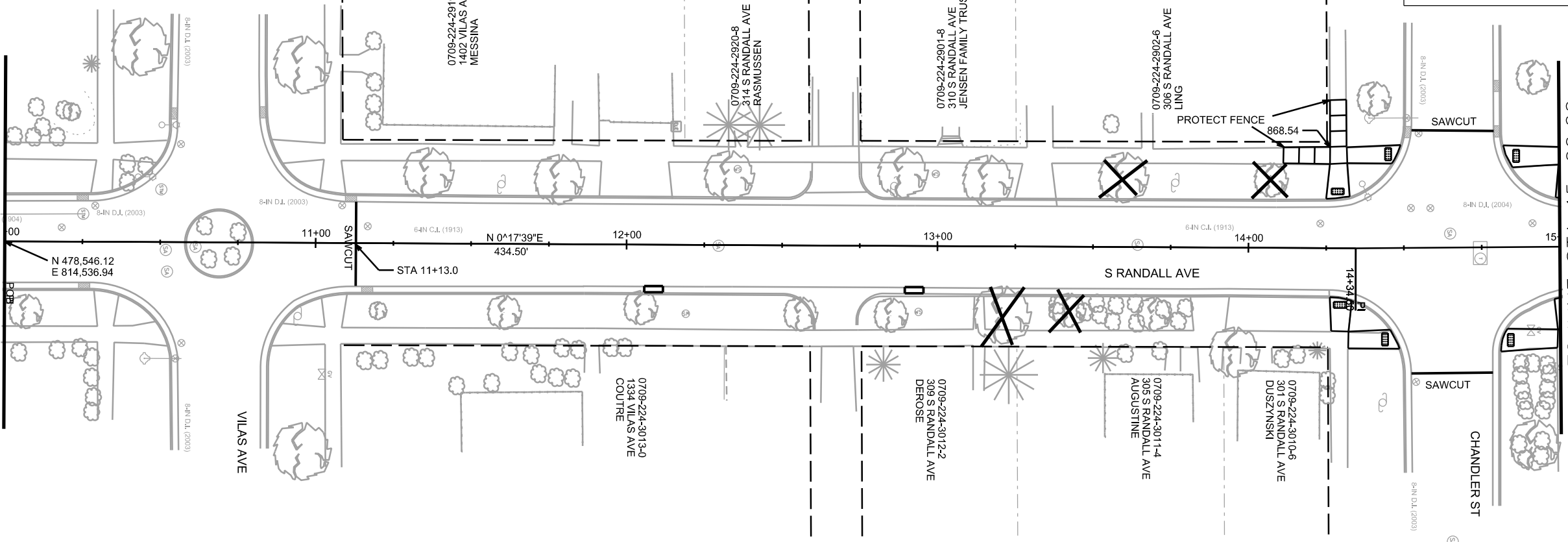
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
RANDALL AVE CITY OF MADISON



MATCHLINE STA 10+00.00

MATCHLINE STA 15+00.00

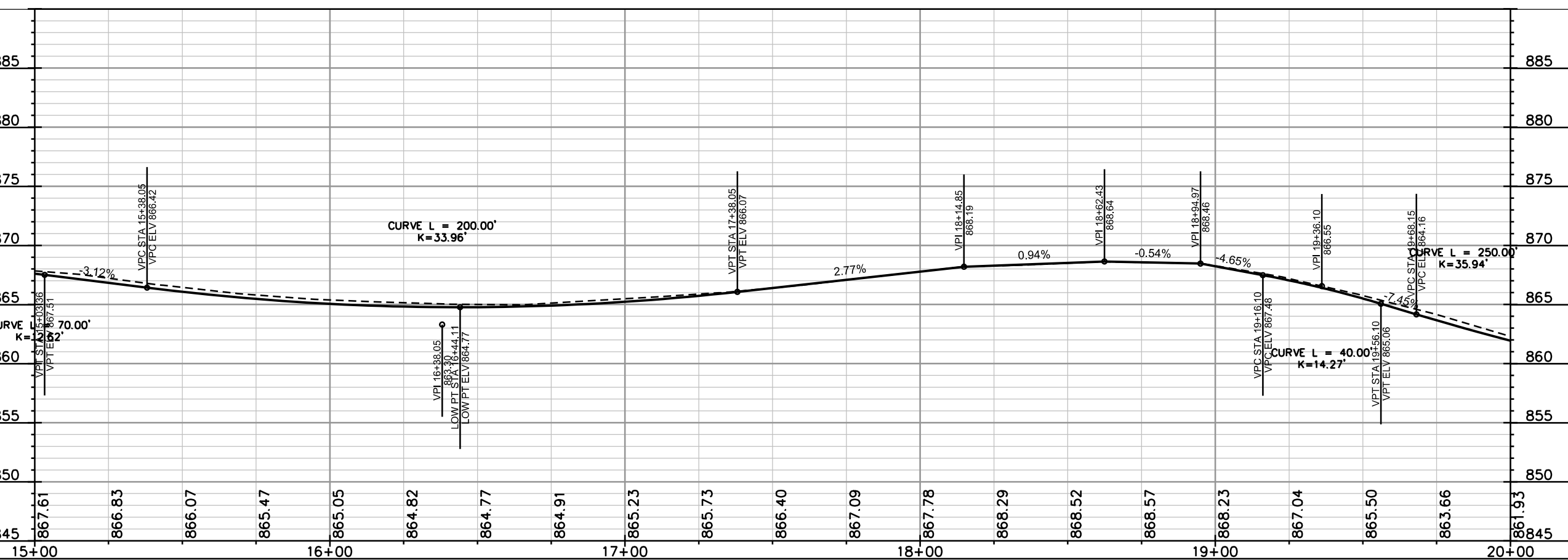
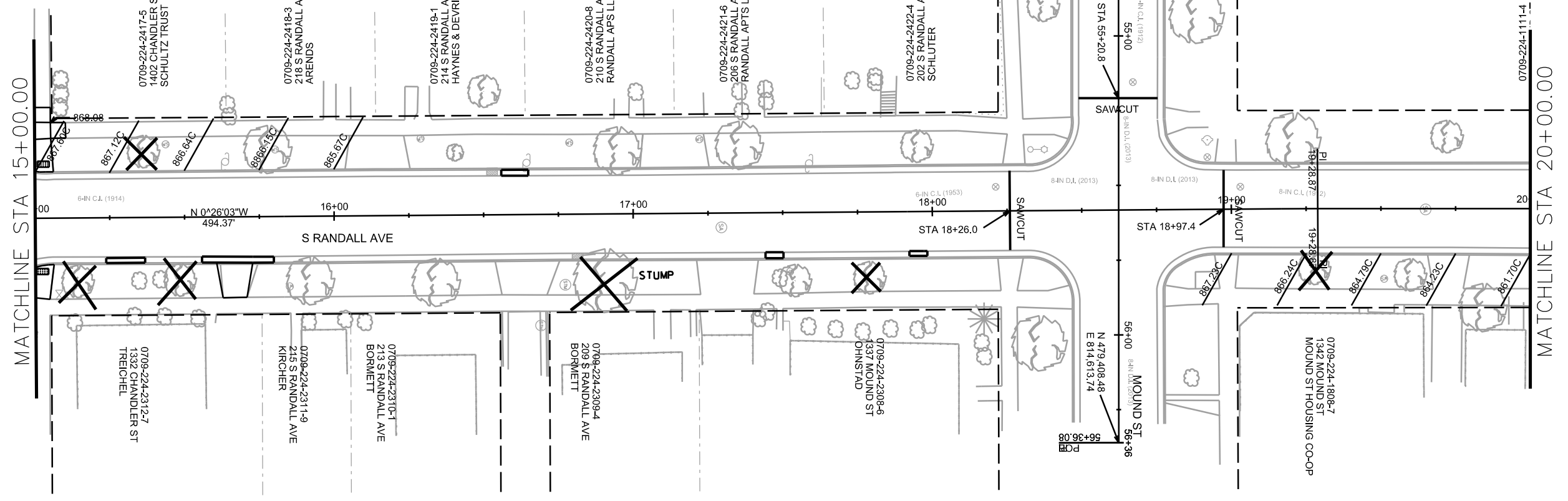
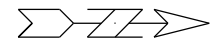


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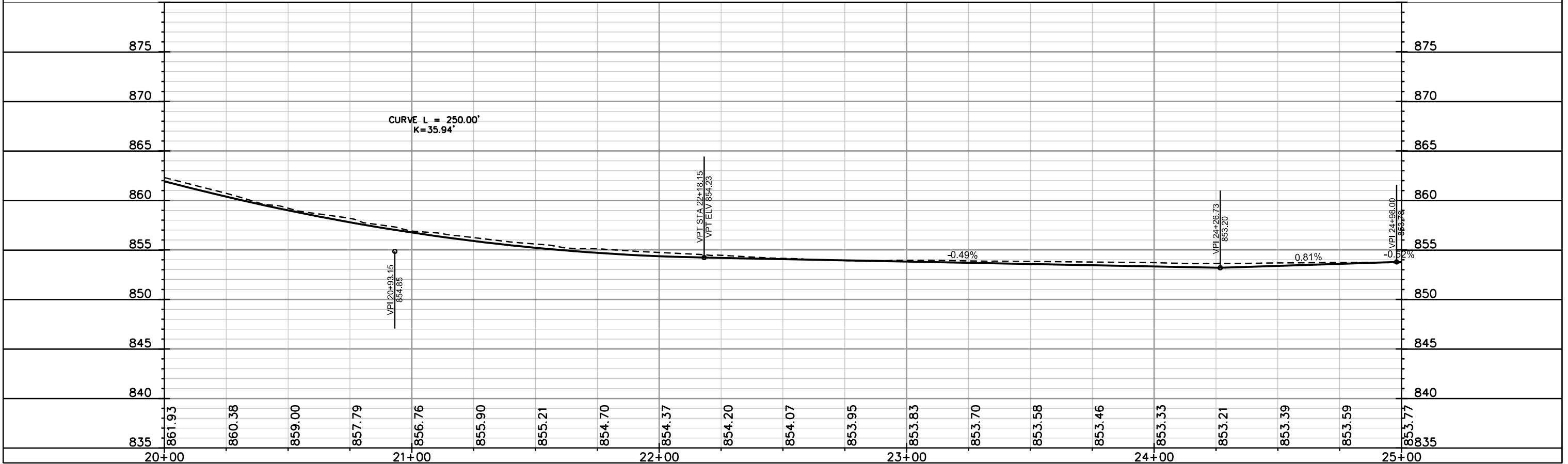
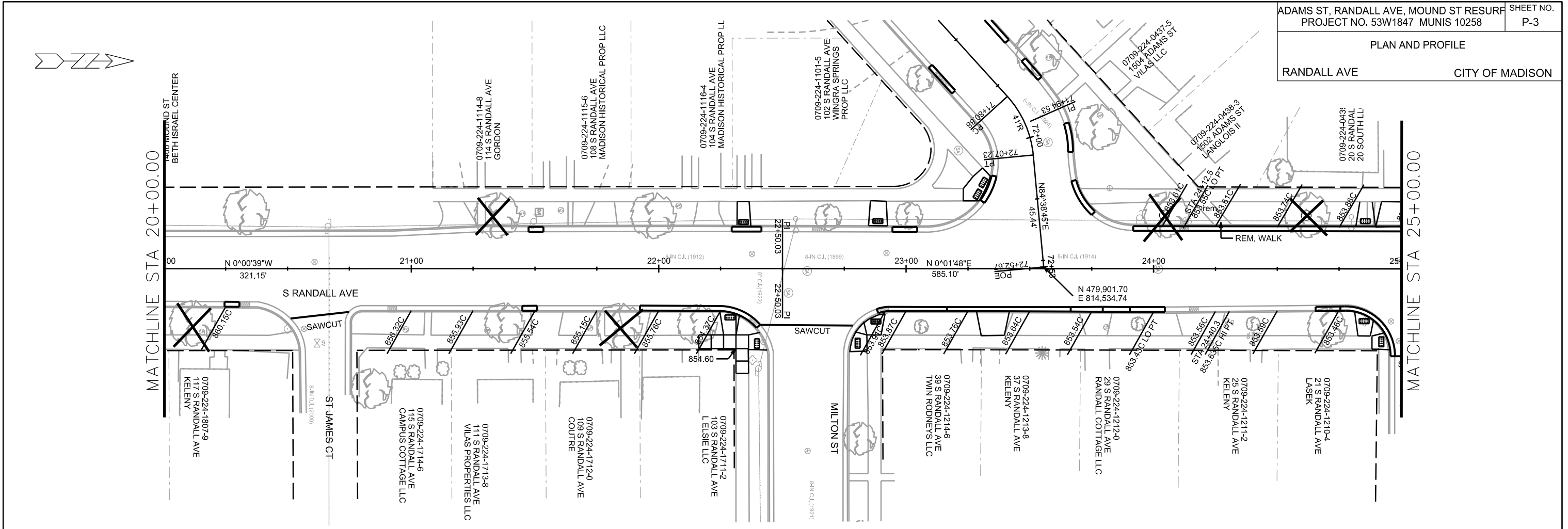
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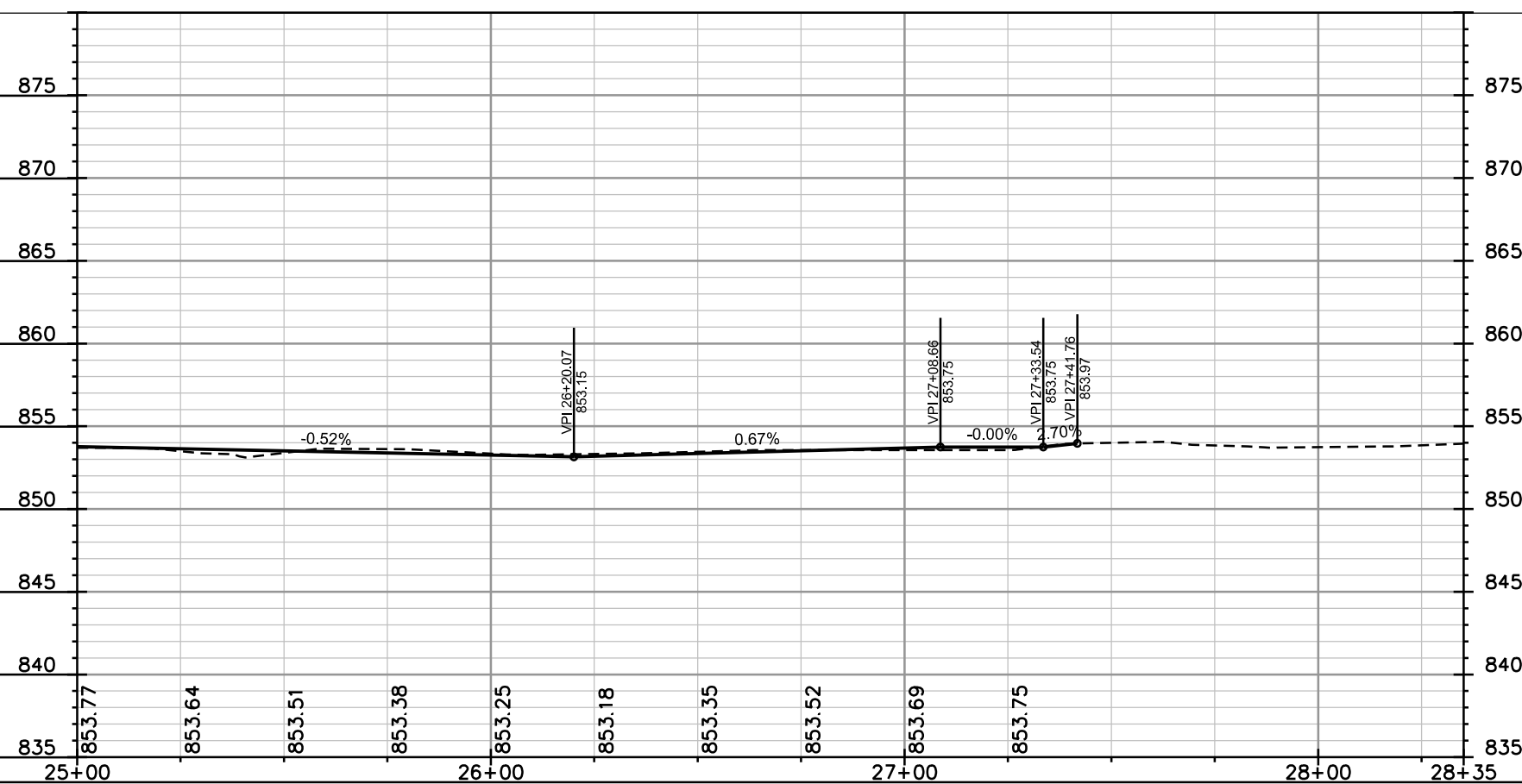
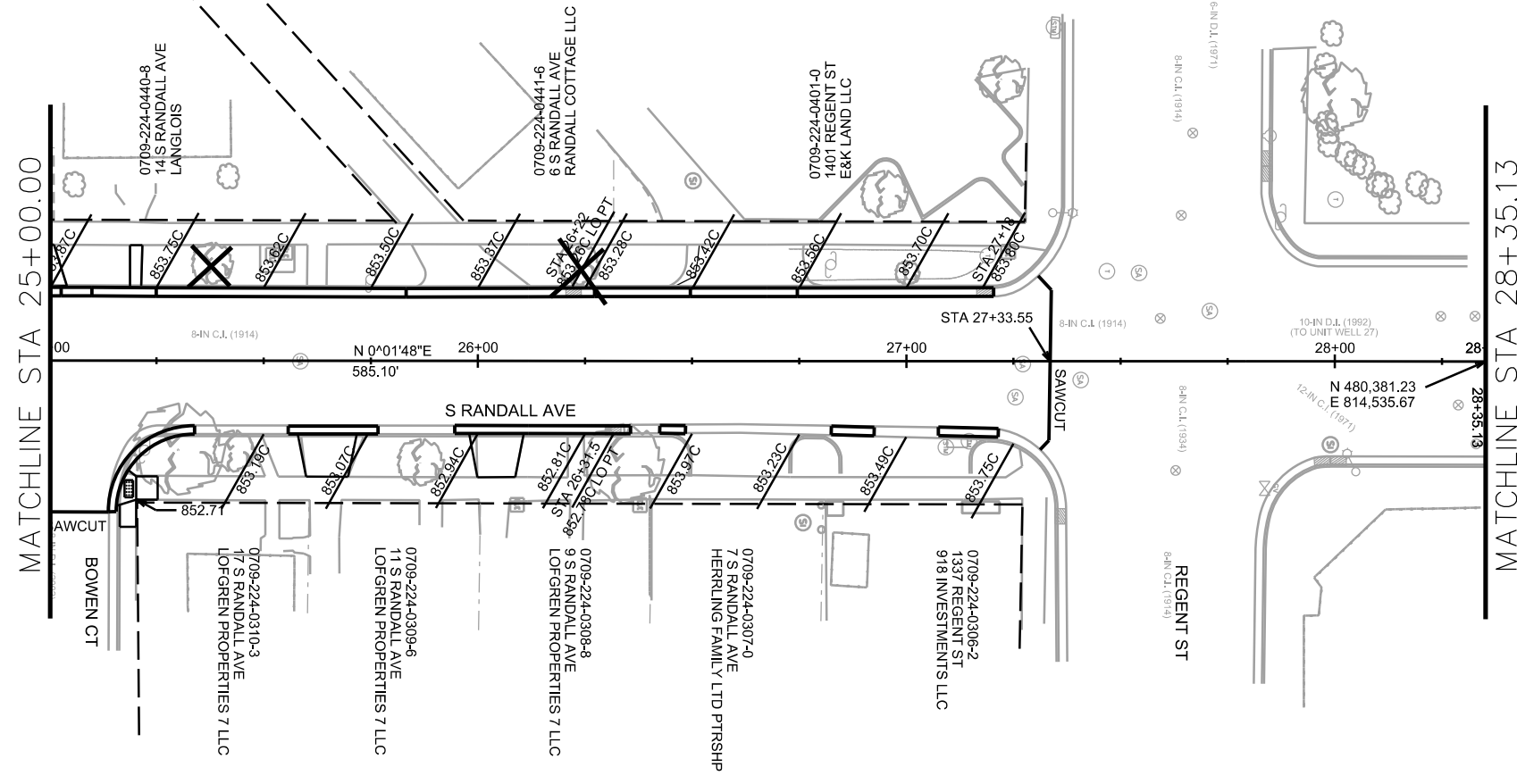
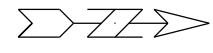
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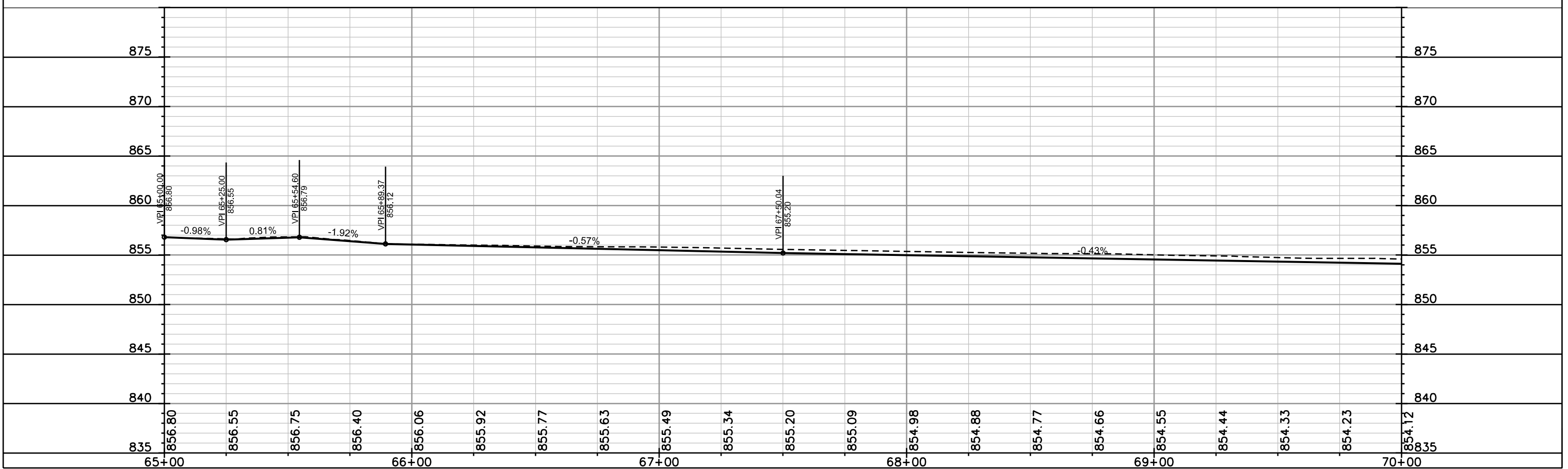
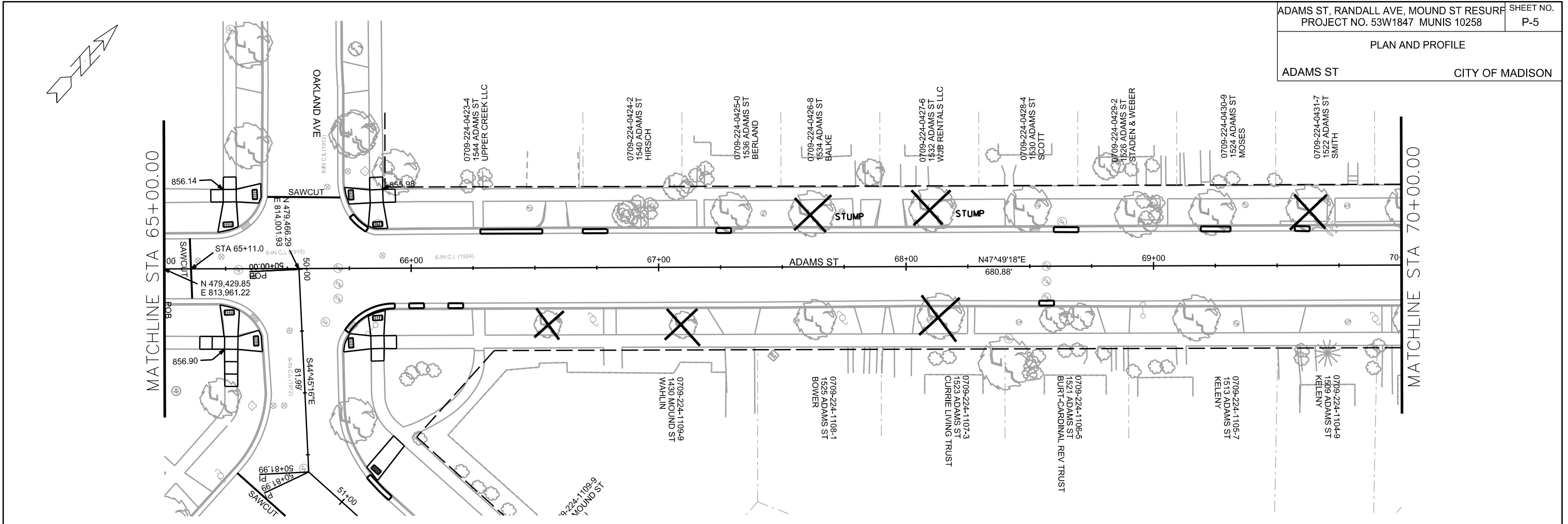
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
RANDALL AVE CITY OF MADISON



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PLAN AND PROFILE
ADAMS ST CITY OF MADISON

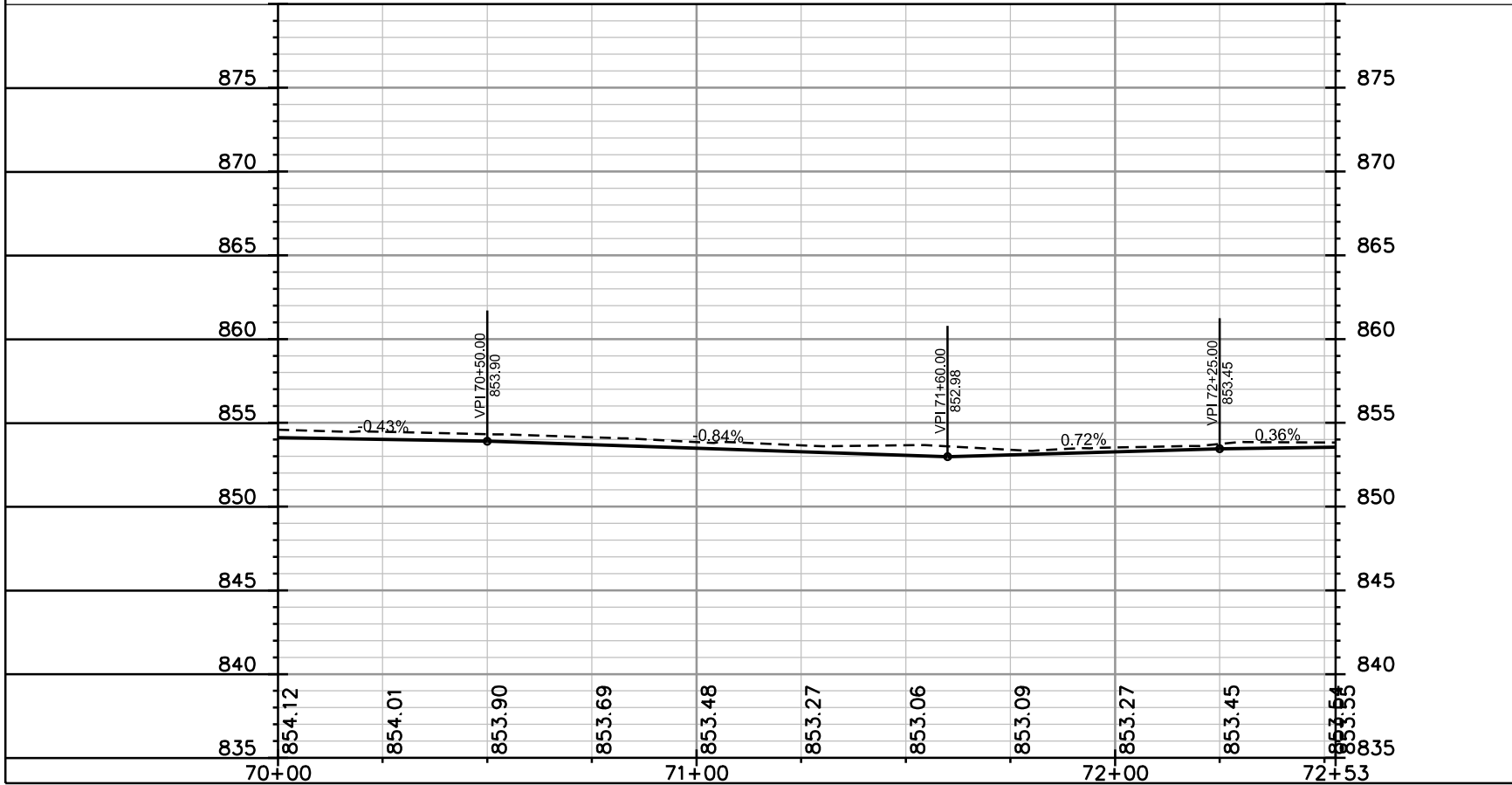
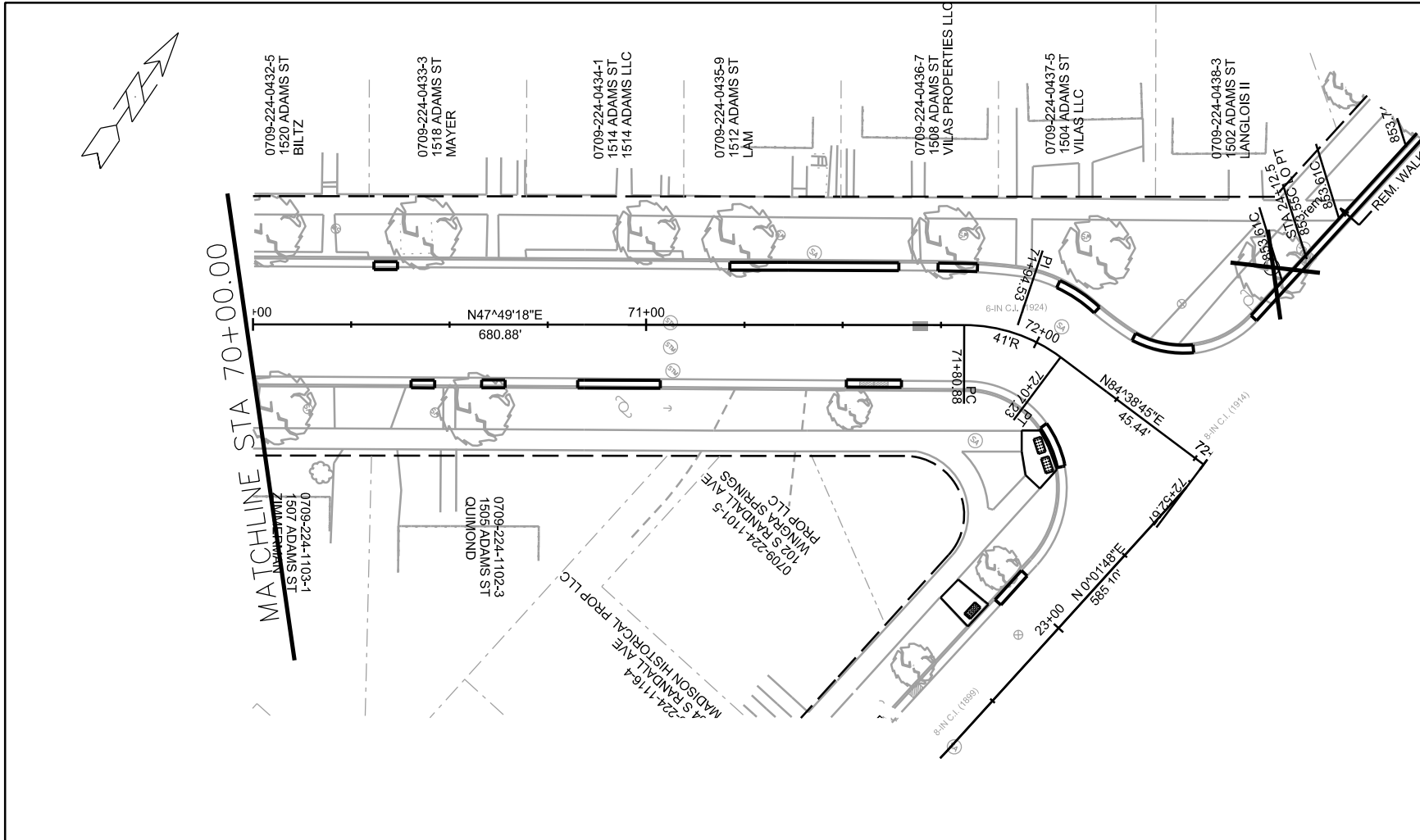


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PLAN AND PROFILE
ADAMS ST CITY OF MADISON

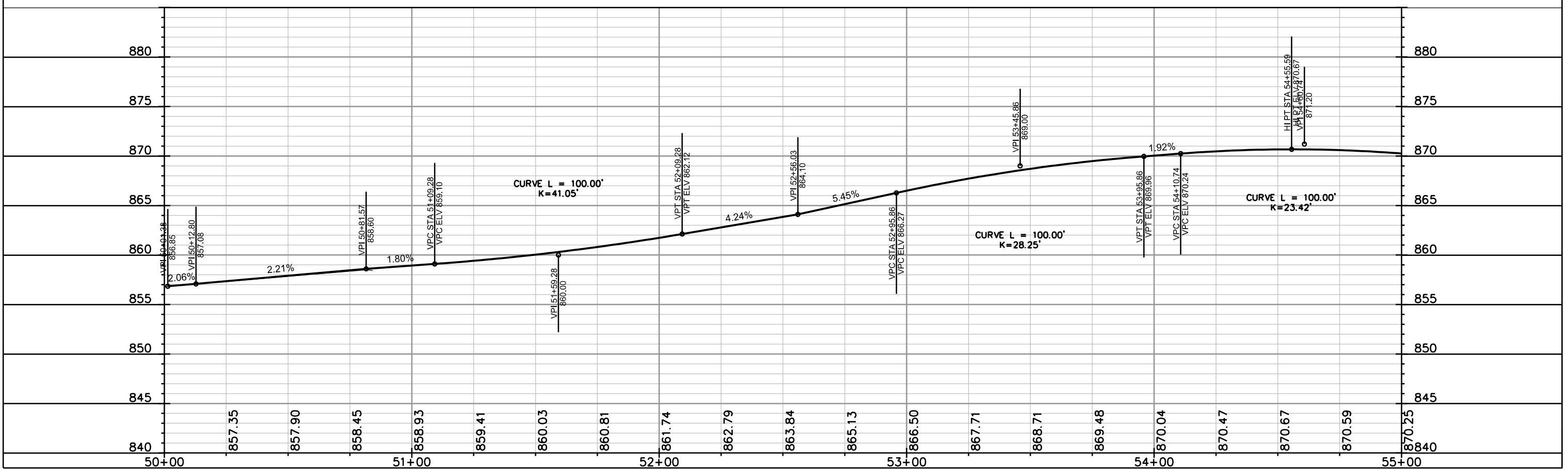
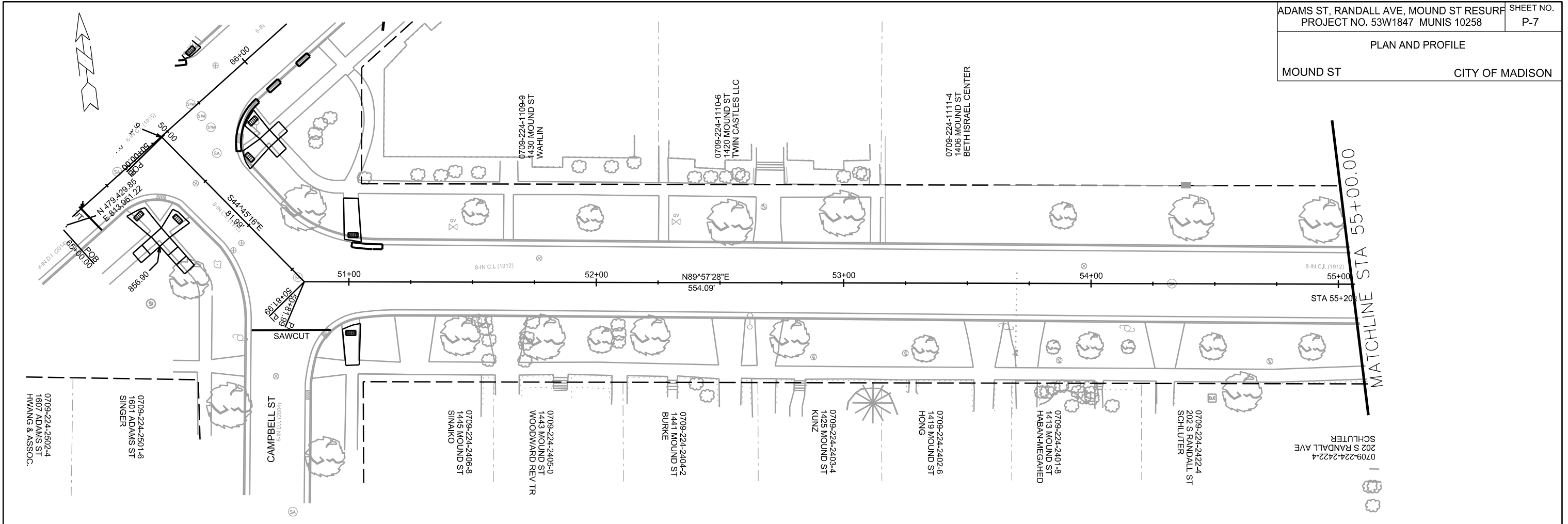


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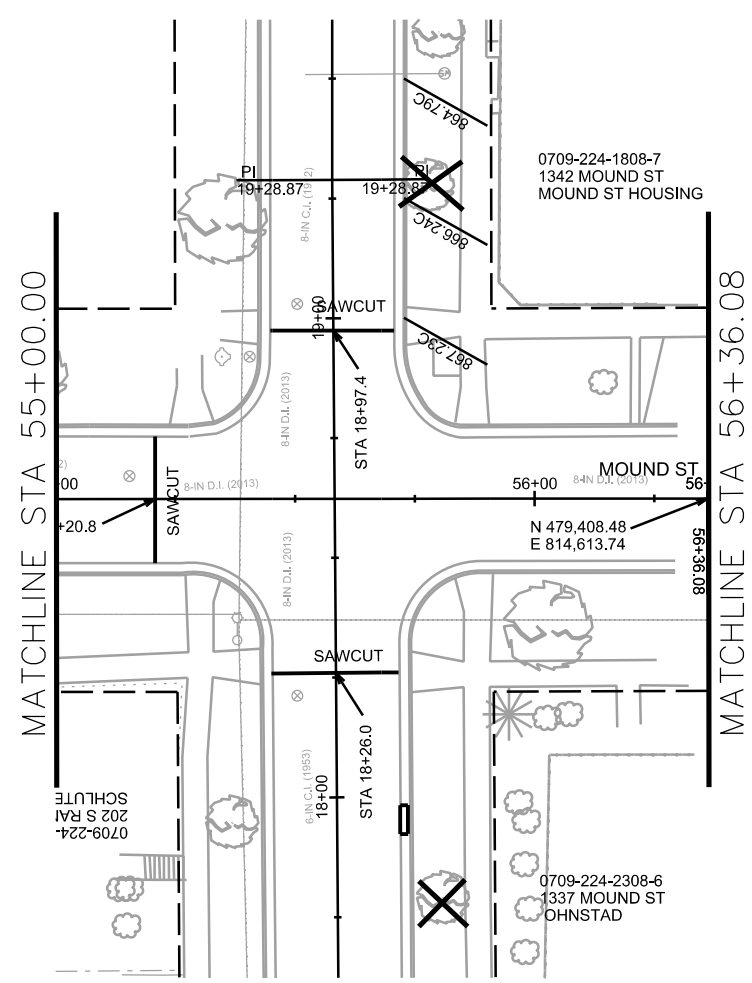
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PLAN AND PROFILE
MOUND ST CITY OF MADISON

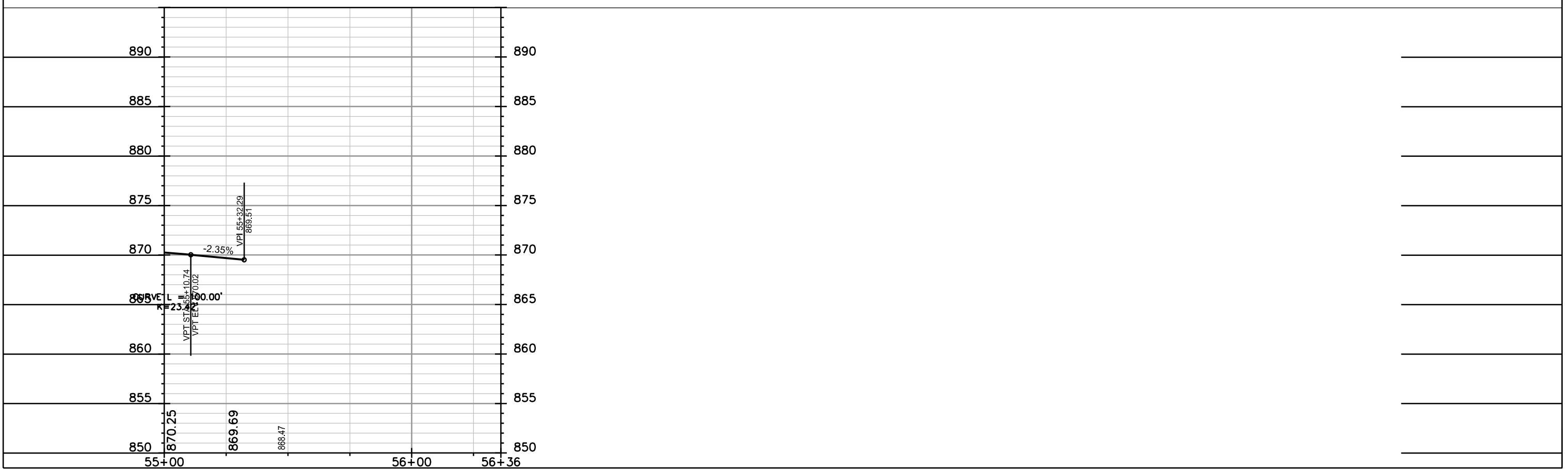


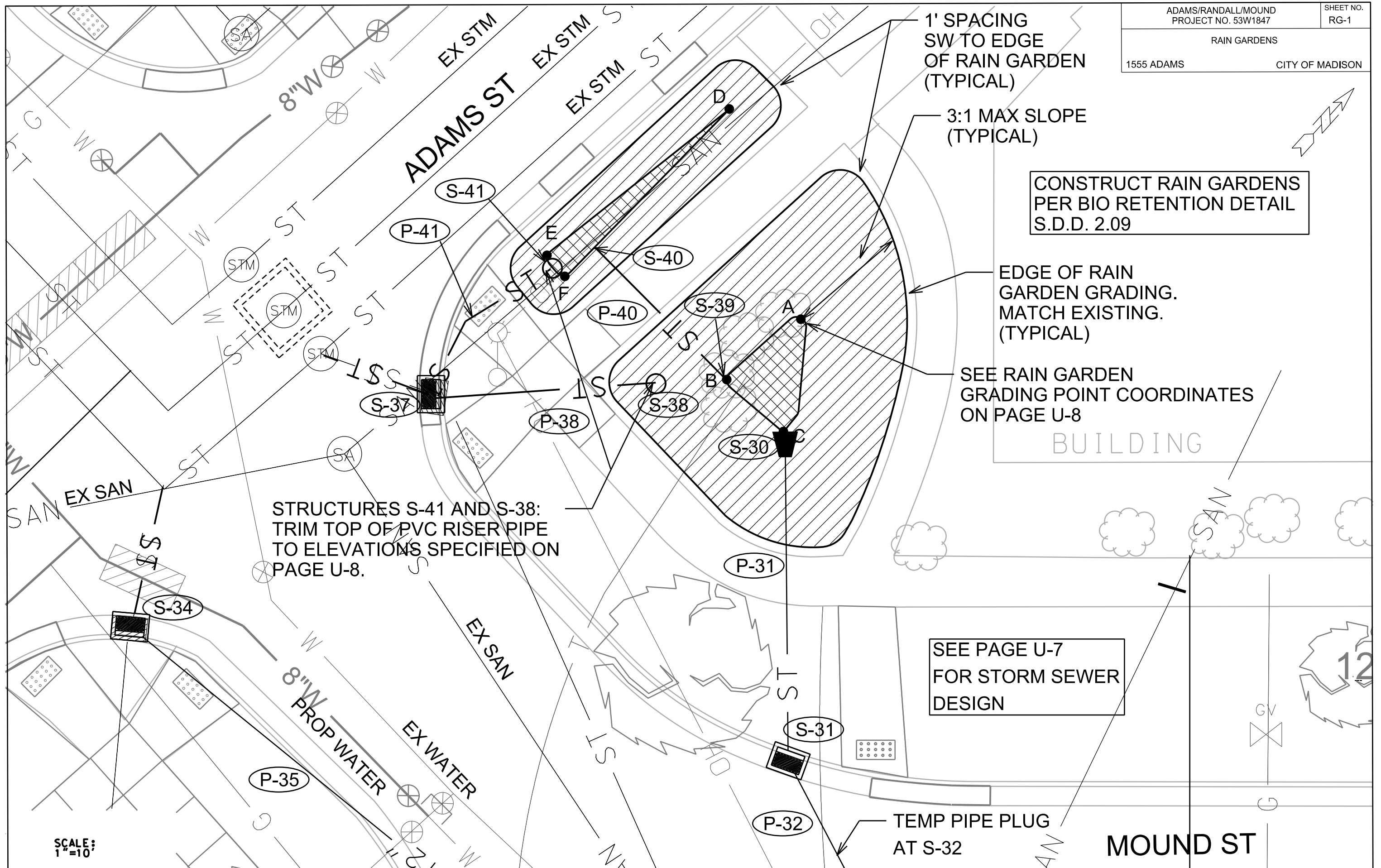
PLOT SCALE: _____

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SCALE:
1"=10'

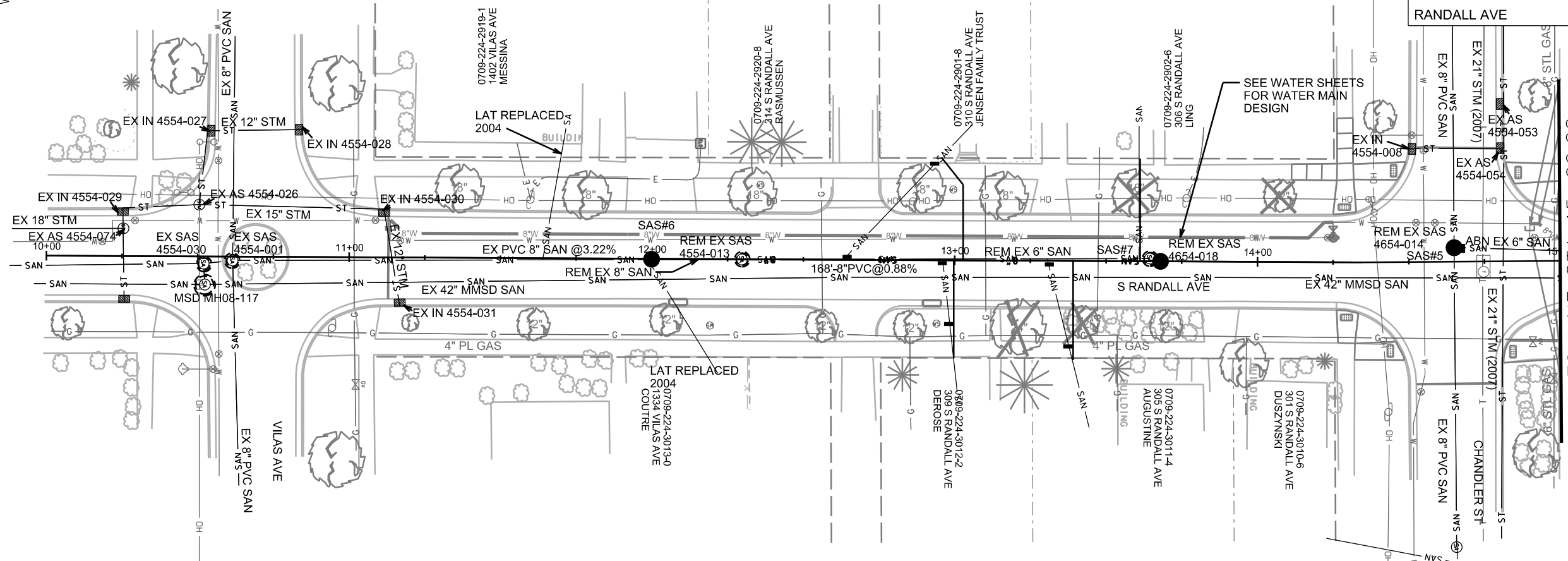
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PLAN AND PROFILE
RANDALL AVE CITY OF MADISON

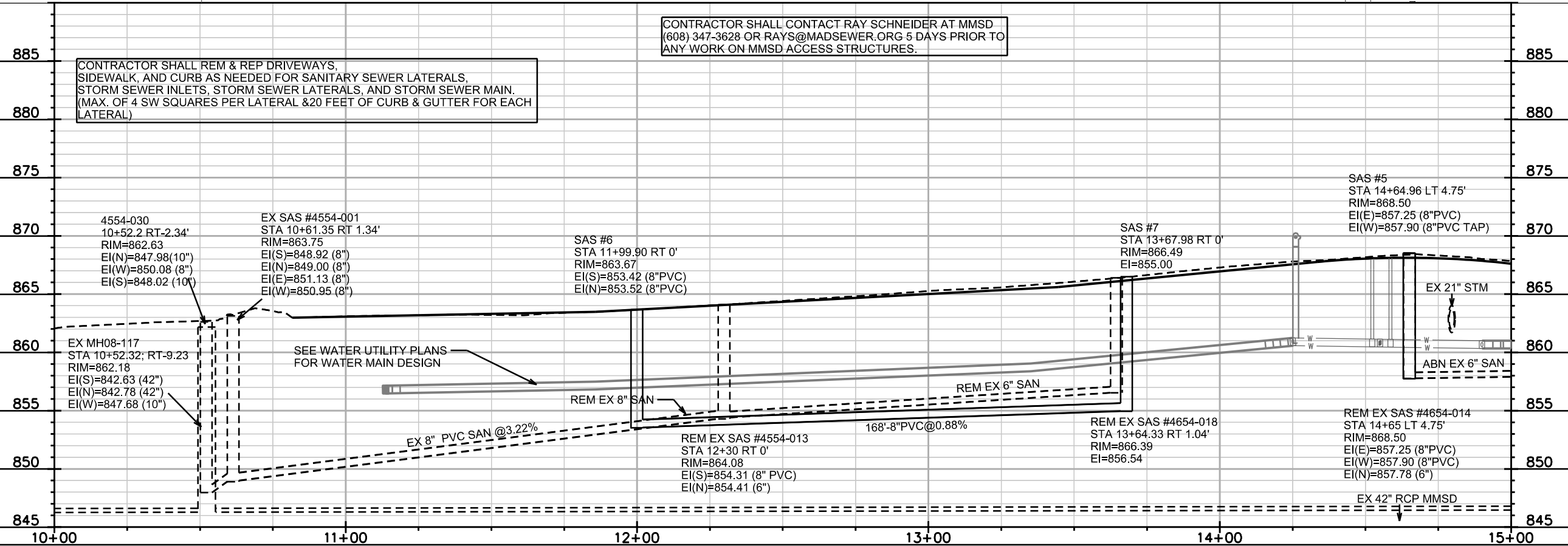


MATCHLINE STA 15+00.00

SEE WATER SHEETS FOR WATER MAIN DESIGN

CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)

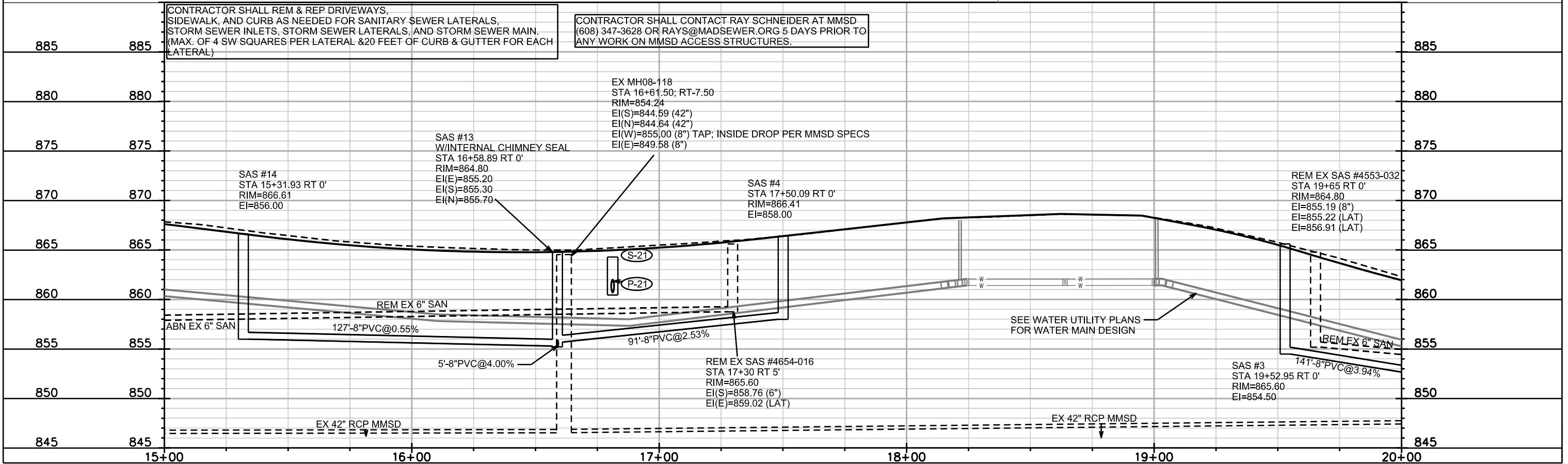
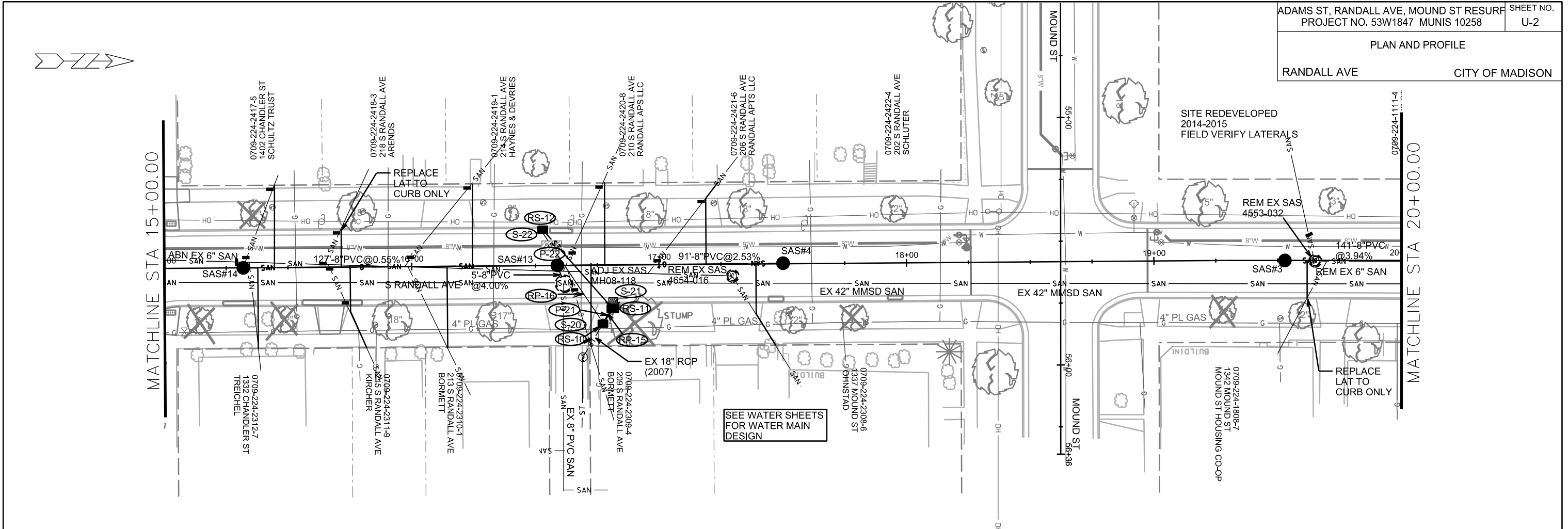
CONTRACTOR SHALL CONTACT RAY SCHNEIDER AT MMSD (608) 347-3628 OR RAYS@MADSEWER.ORG 5 DAYS PRIOR TO ANY WORK ON MMSD ACCESS STRUCTURES.



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)

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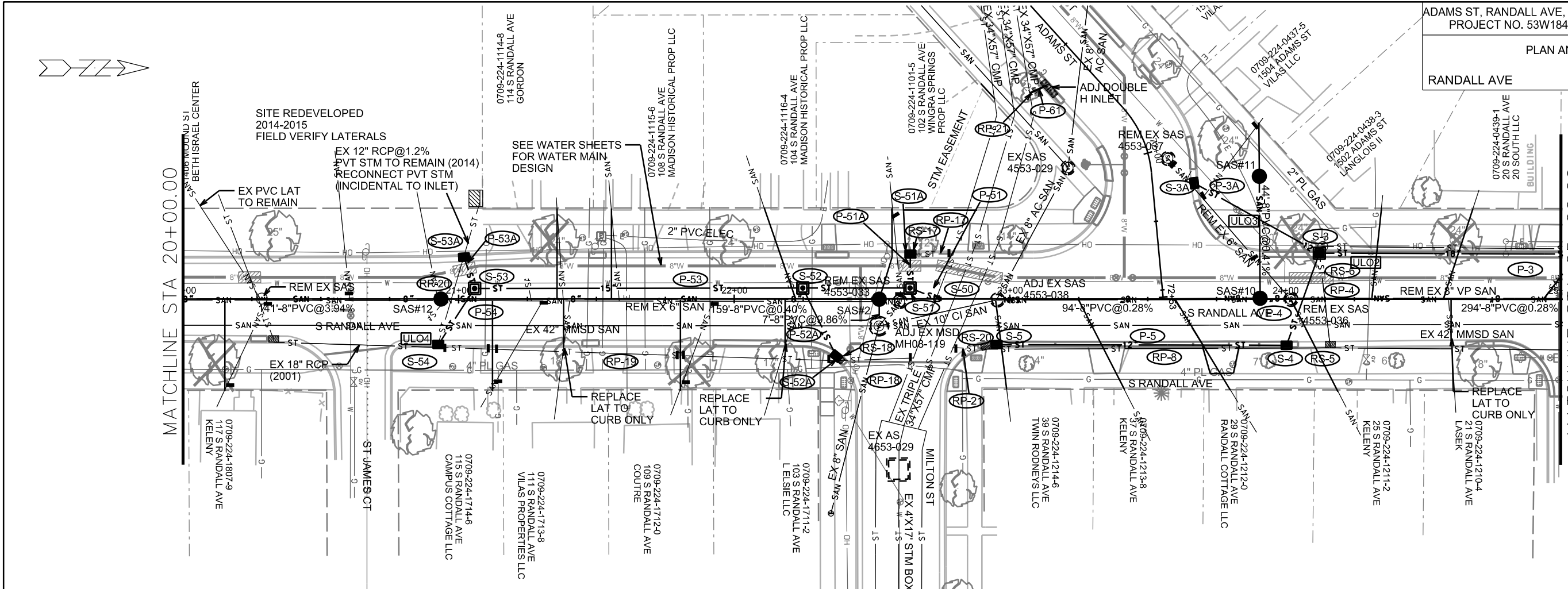
SEE WATER SHEETS FOR WATER MAIN DESIGN

SEE WATER UTILITY PLANS FOR WATER MAIN DESIGN

PLOT SCALE: _____

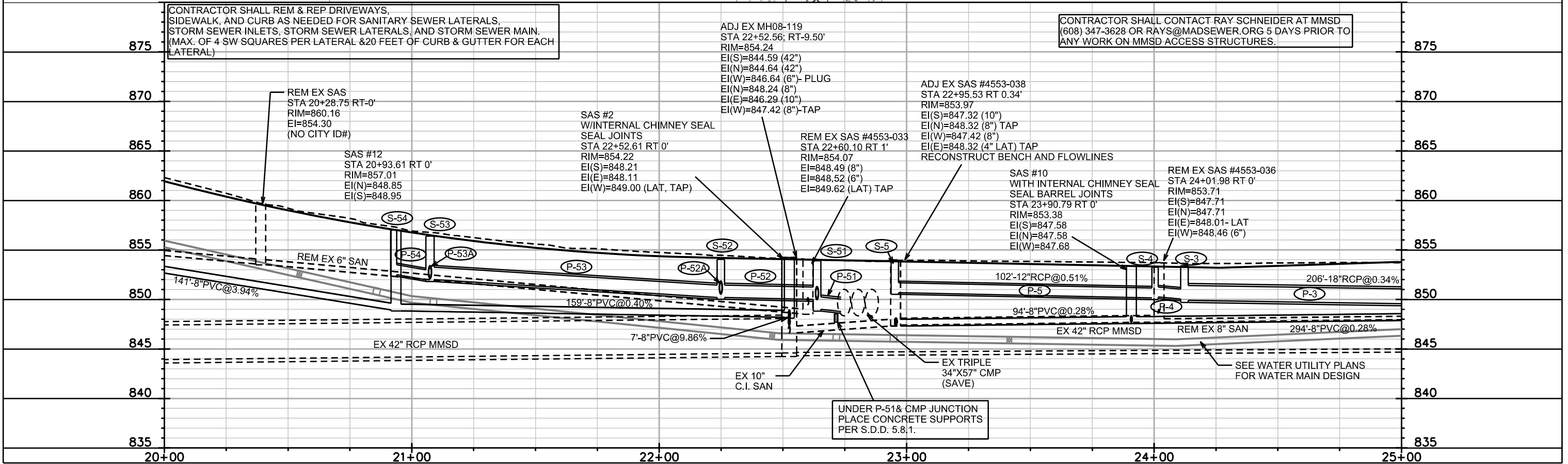
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00



CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)

CONTRACTOR SHALL CONTACT RAY SCHNEIDER AT MMSD (608) 347-3628 OR RAYS@MADSEWER.ORG 5 DAYS PRIOR TO ANY WORK ON MMSD ACCESS STRUCTURES.

ADJ EX MH08-119
 STA 22+52.56; RT-9.50'
 RIM=854.24
 EI(S)=844.59 (42")
 EI(N)=844.64 (42")
 EI(W)=846.64 (6")- PLUG
 EI(N)=848.24 (8")
 EI(E)=846.29 (10")
 EI(W)=847.42 (8")-TAP

ADJ EX SAS #4553-038
 STA 22+95.53 RT 0.34'
 RIM=853.97
 EI(S)=847.32 (10")
 EI(N)=848.32 (8") TAP
 EI(W)=847.42 (8")
 EI(E)=848.32 (4" LAT) TAP
 RECONSTRUCT BENCH AND FLOWLINES

REM EX SAS #4553-036
 STA 24+01.98 RT 0'
 RIM=853.71
 EI(S)=847.71
 EI(N)=847.71
 EI(E)=848.01- LAT
 EI(W)=848.46 (6")

SAS #2
 WITH INTERNAL CHIMNEY SEAL
 SEAL JOINTS
 STA 22+52.61 RT 0'
 RIM=854.22
 EI(S)=848.21
 EI(E)=848.11
 EI(W)=849.00 (LAT, TAP)

REM EX SAS #4553-033
 STA 22+60.10 RT 1'
 RIM=854.07
 EI=848.49 (8")
 EI=848.52 (6")
 EI=849.62 (LAT) TAP

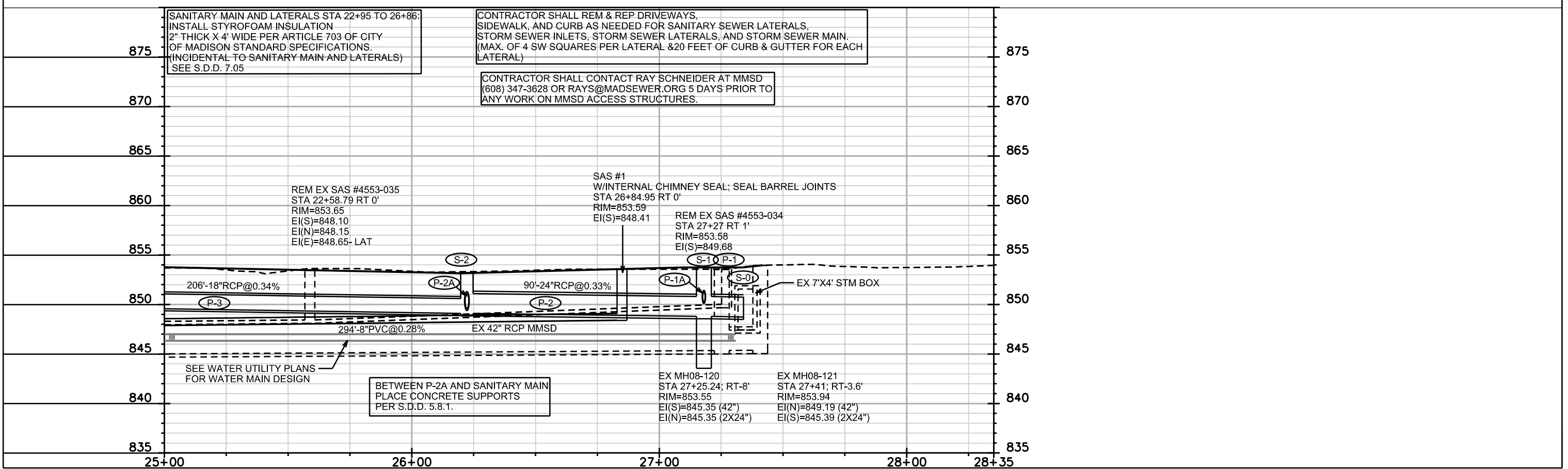
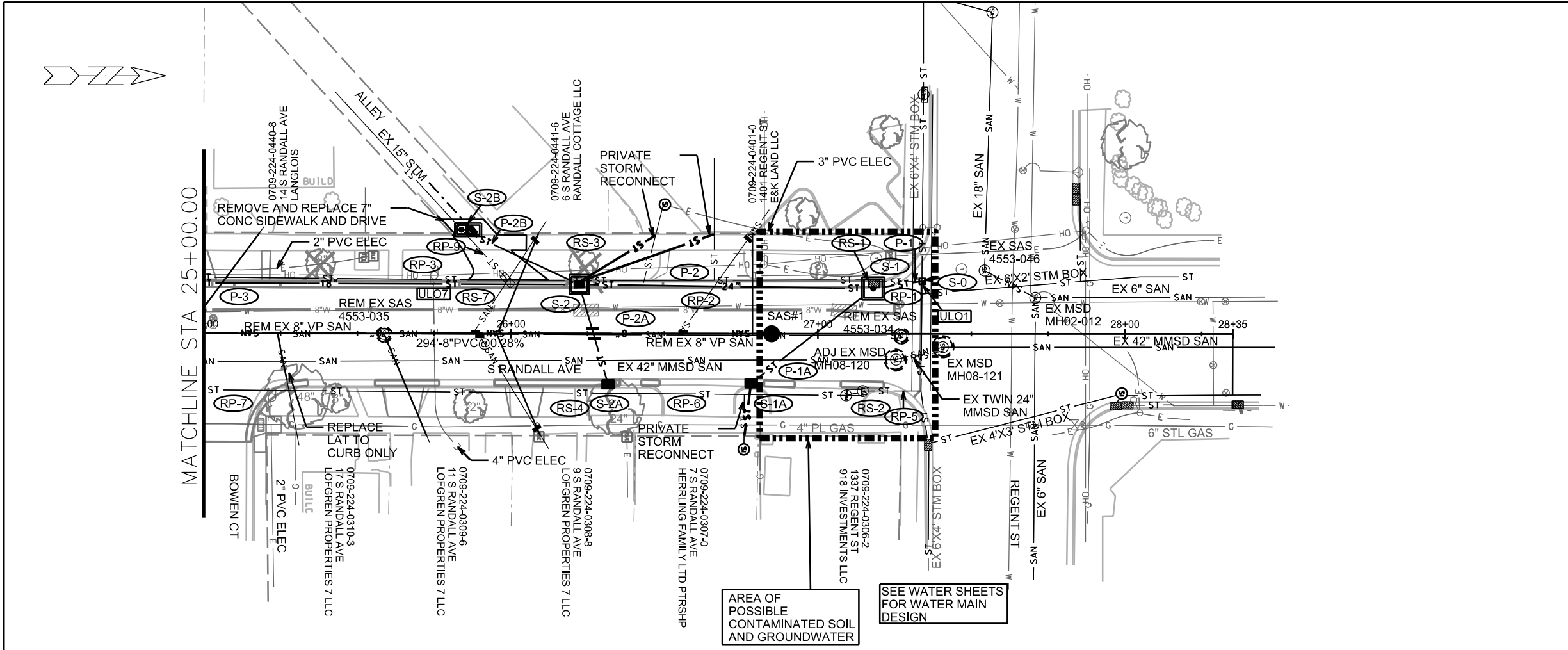
UNDER P-51 & CMP JUNCTION
 PLACE CONCRETE SUPPORTS
 PER S.D.D. 5.8.1.

SEE WATER UTILITY PLANS
 FOR WATER MAIN DESIGN

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



875 SANITARY MAIN AND LATERALS STA 22+95 TO 26+86:
 INSTALL STYROFOAM INSULATION
 2" THICK X 4' WIDE PER ARTICLE 703 OF CITY
 OF MADISON STANDARD SPECIFICATIONS.
 (INCIDENTAL TO SANITARY MAIN AND LATERALS)
 SEE S.D.D. 7.05

875 CONTRACTOR SHALL REM & REP DRIVEWAYS,
 SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS,
 STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN.
 (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH
 LATERAL)

870 CONTRACTOR SHALL CONTACT RAY SCHNEIDER AT MMSD
 (608) 347-3628 OR RAYS@MADSEWER.ORG 5 DAYS PRIOR TO
 ANY WORK ON MMSD ACCESS STRUCTURES.

860 REM EX SAS #4553-035
 STA 22+58.79 RT 0'
 RIM=853.65
 EI(S)=848.10
 EI(N)=848.15
 EI(E)=848.65- LAT

860 SAS #1
 W/INTERNAL CHIMNEY SEAL; SEAL BARREL JOINTS
 STA 26+84.95 RT 0'
 RIM=853.59
 EI(S)=848.41

855 REM EX SAS #4553-034
 STA 27+27 RT 1'
 RIM=853.58
 EI(S)=849.68

845 SEE WATER UTILITY PLANS
 FOR WATER MAIN DESIGN

840 BETWEEN P-2A AND SANITARY MAIN
 PLACE CONCRETE SUPPORTS
 PER S.D.D. 5.8.1.

840 EX MH08-120
 STA 27+25.24; RT-8'
 RIM=853.55
 EI(S)=845.35 (42")
 EI(N)=845.35 (2X24")

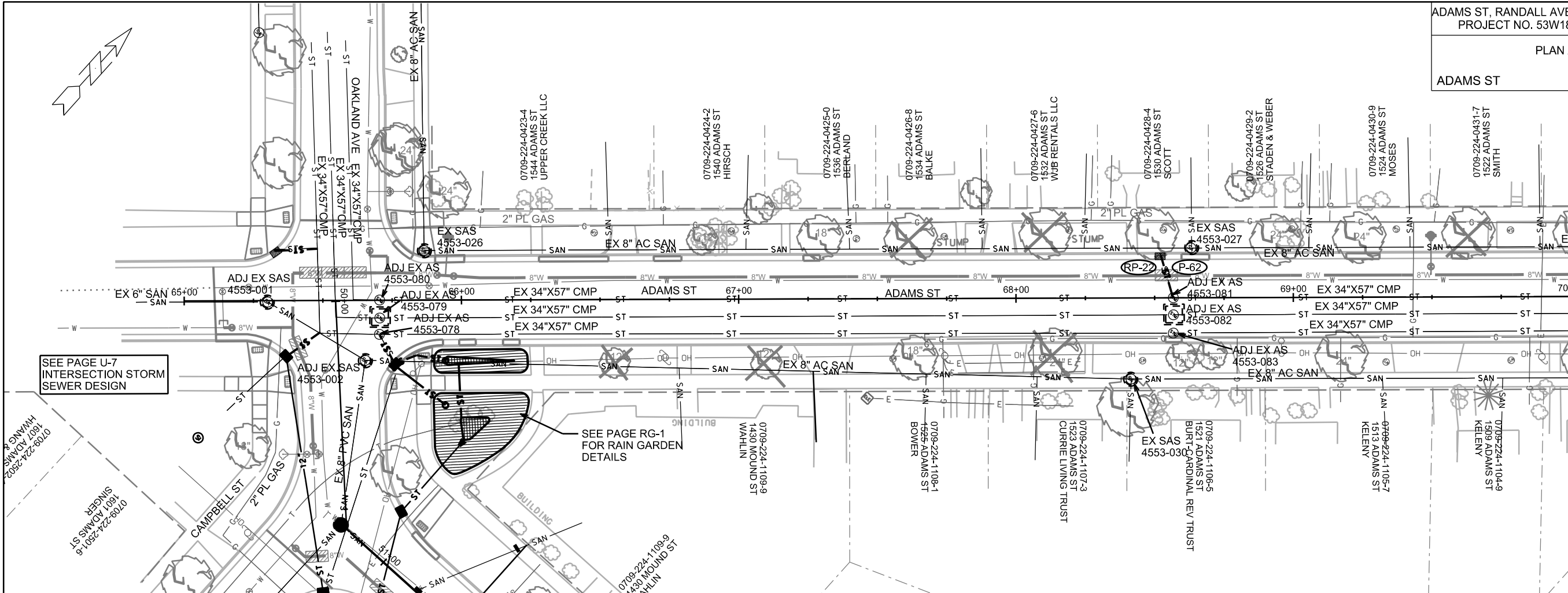
840 EX MH08-121
 STA 27+41; RT-3.6'
 RIM=853.94
 EI(N)=849.19 (42")
 EI(S)=845.39 (2X24")

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

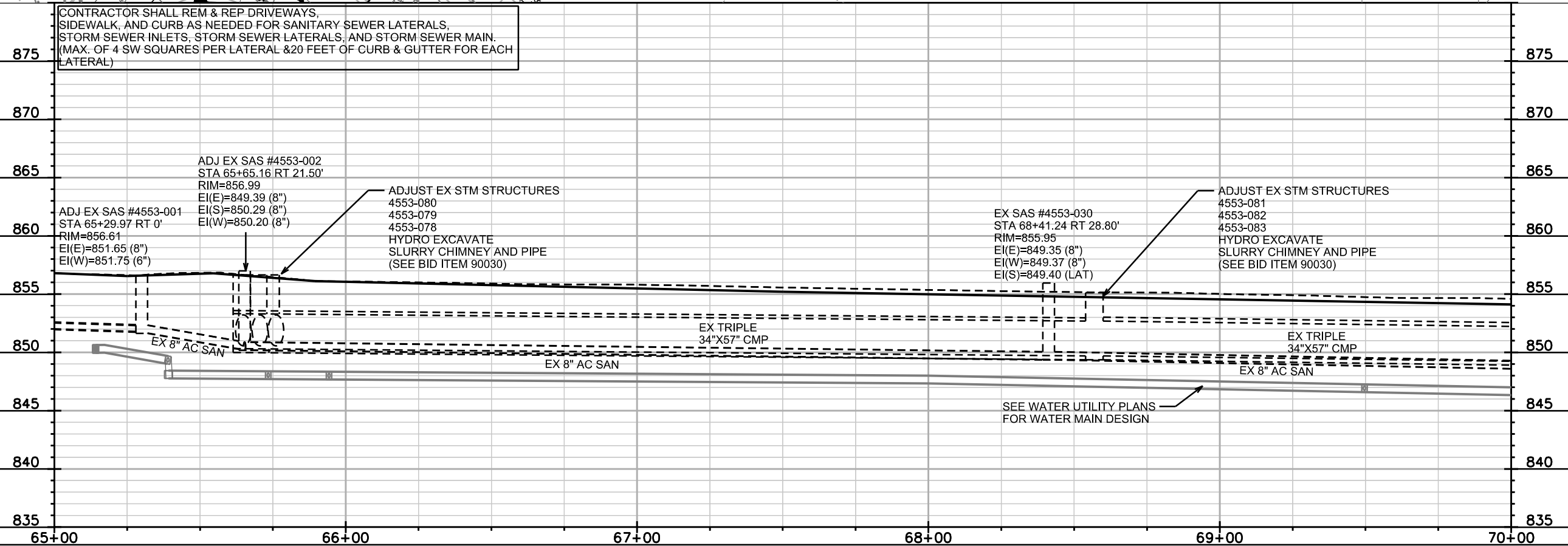
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SEE PAGE U-7 INTERSECTION STORM SEWER DESIGN

SEE PAGE RG-1 FOR RAIN GARDEN DETAILS

MATCHLINE STA 70+00.00



CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)

ADJUST EX STM STRUCTURES 4553-080 4553-079 4553-078 HYDRO EXCAVATE SLURRY CHIMNEY AND PIPE (SEE BID ITEM 90030)

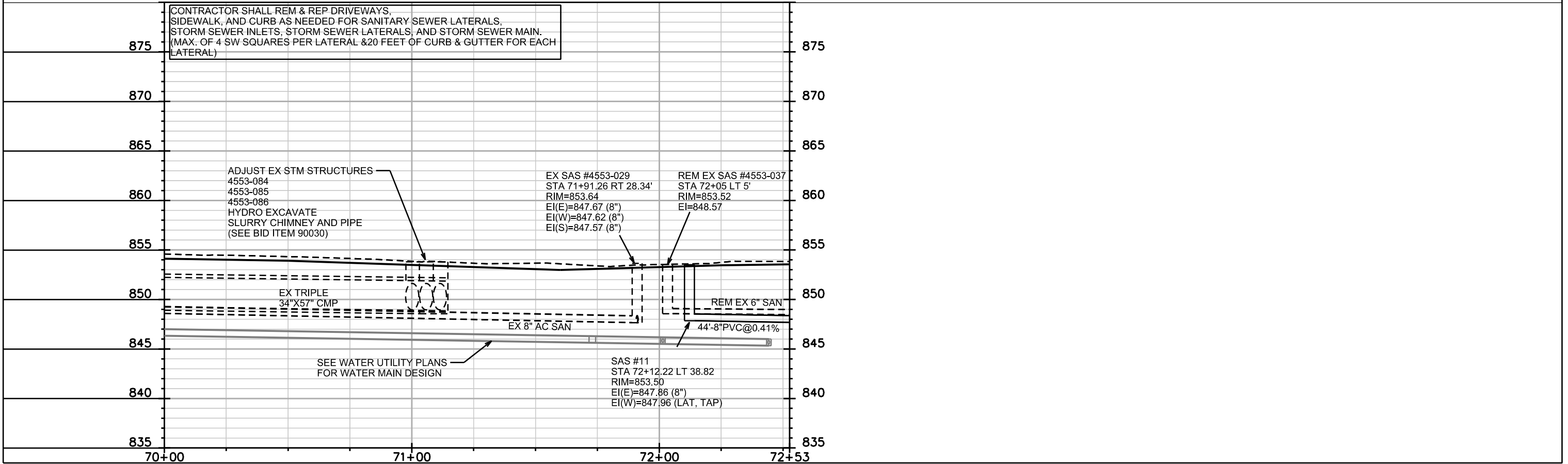
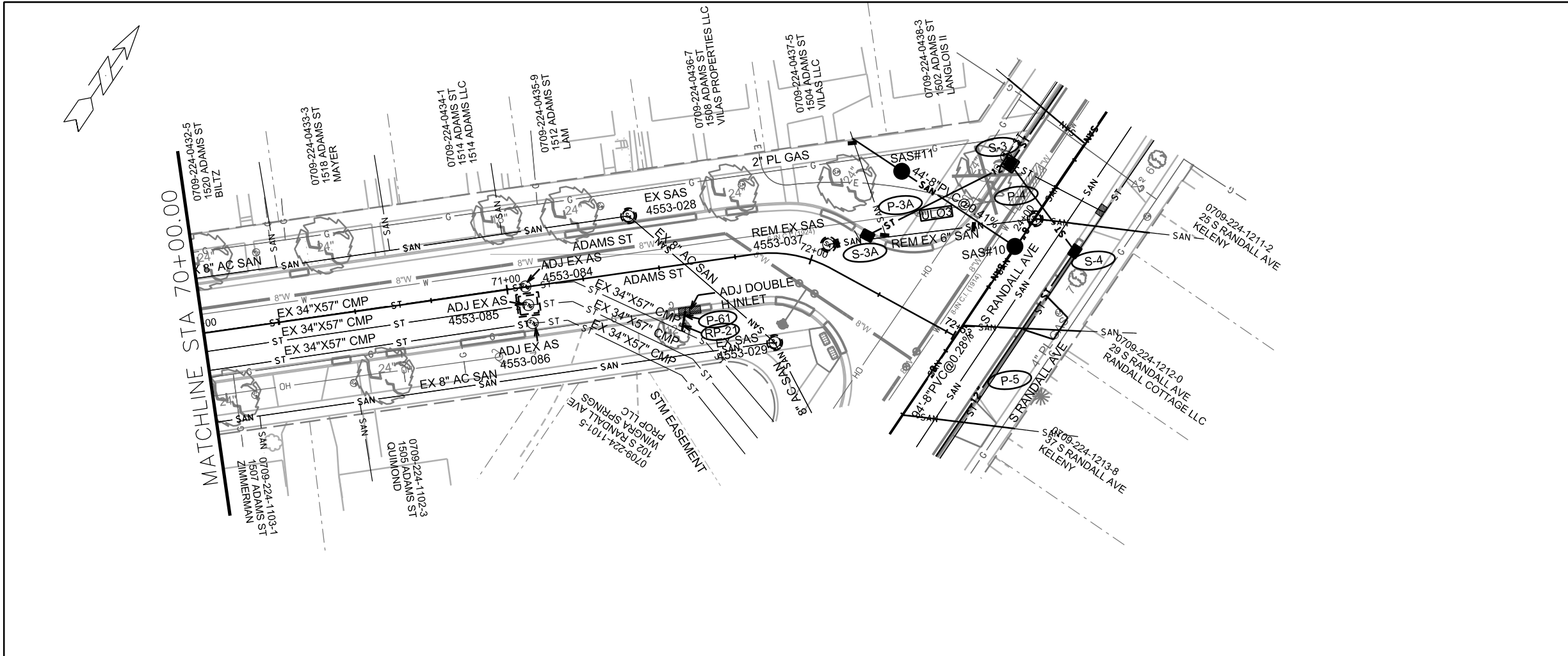
ADJUST EX STM STRUCTURES 4553-081 4553-082 4553-083 HYDRO EXCAVATE SLURRY CHIMNEY AND PIPE (SEE BID ITEM 90030)

SEE WATER UTILITY PLANS FOR WATER MAIN DESIGN

PLOT SCALE: _____

REV. DATE: _____

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CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS, AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)

ADJUST EX STM STRUCTURES
4553-084
4553-085
4553-086
HYDRO EXCAVATE
SLURRY CHIMNEY AND PIPE
(SEE BID ITEM 90030)

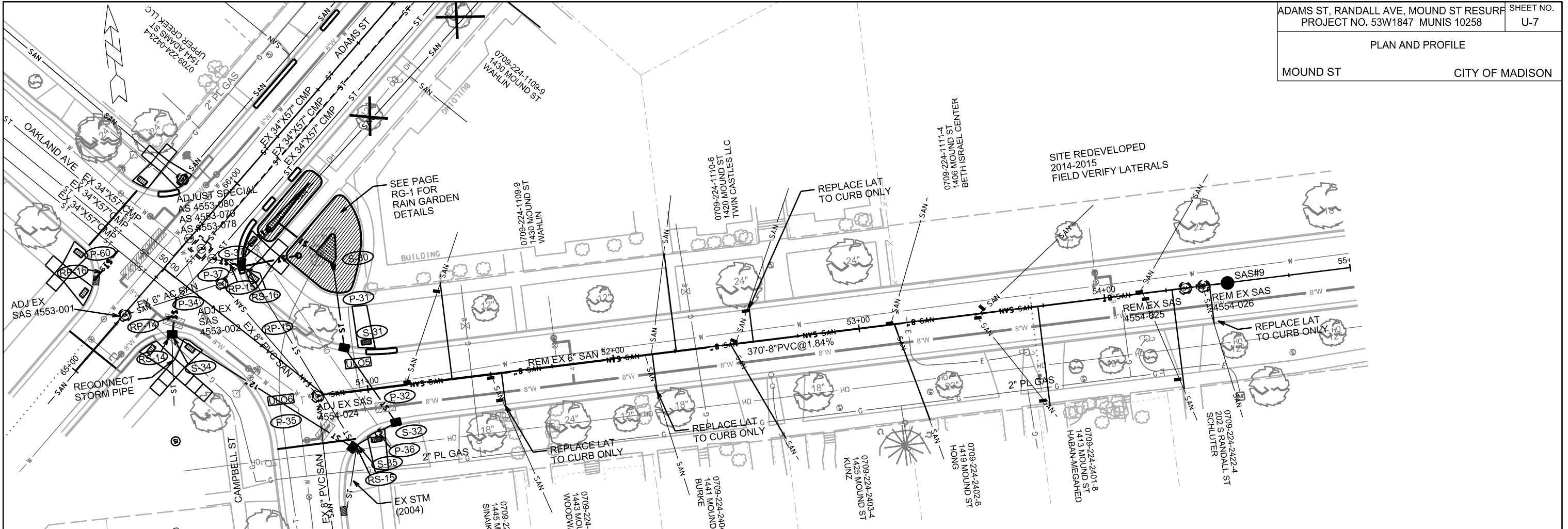
EX SAS #4553-029
STA 71+91.26 RT 28.34'
RIM=853.64
EI(E)=847.67 (8\"/>

REM EX SAS #4553-037
STA 72+05 LT 5'
RIM=853.52
EI=848.57

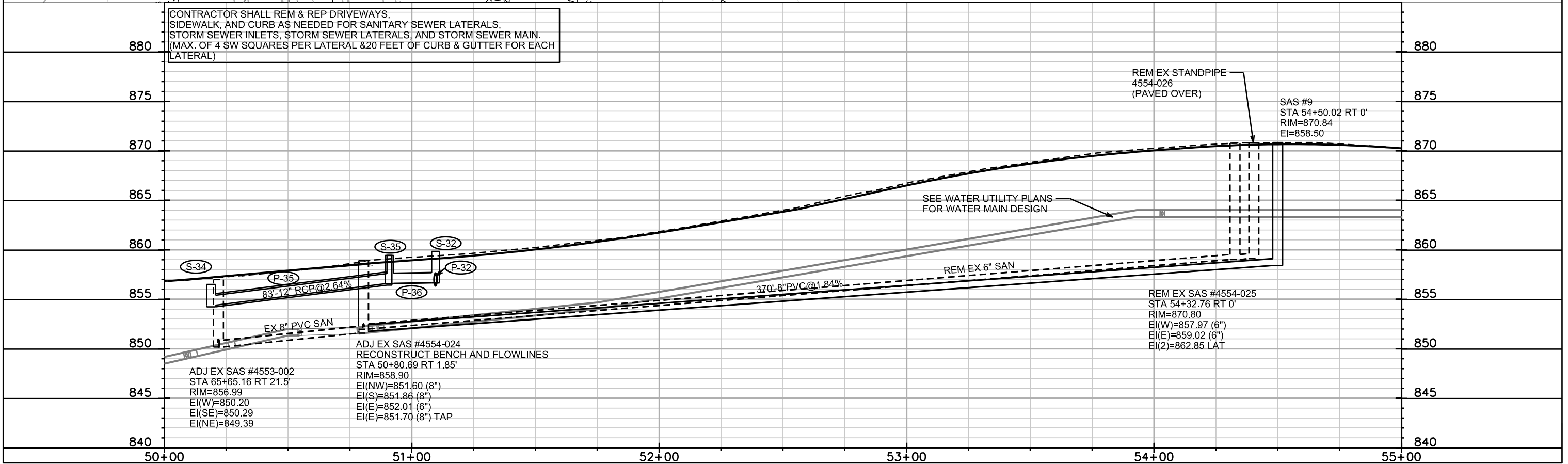
SAS #11
STA 72+12.22 LT 38.82
RIM=853.50
EI(E)=847.86 (8\"/>

SEE WATER UTILITY PLANS
FOR WATER MAIN DESIGN

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



CONTRACTOR SHALL REM & REP DRIVEWAYS, SIDEWALK, AND CURB AS NEEDED FOR SANITARY SEWER LATERALS, STORM SEWER INLETS, STORM SEWER LATERALS AND STORM SEWER MAIN. (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER FOR EACH LATERAL)



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

RANDALL/ADAMS/MOUND

SHEET NO.

PROJECT NO. 53W1847

U-8

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
S RANDALL AVE						
SAS #1	26+84.95	RT-0'	853.59	848.41	5.18	W/INTERNAL CHIMNEY SEAL; SEAL JOINTS
SAS #2	22+52.61	RT-0'	854.22	848.11	6.11	W/INTERNAL CHIMNEY SEAL; SEAL JOINTS
SAS #3	19+52.95	RT-0'	865.60	854.50	11.10	
SAS #4	17+50.09	RT-0'	866.41	858.00	8.41	
SAS #5	14+64.96	LT-4.75	868.50	857.25	11.25	(2)
SAS #6	11+99.90	RT-0'	863.67	853.42	10.25	
SAS #7	13+67.98	RT-0'	866.49	855.00	11.49	
SAS #10	23+90.79	RT-0'	853.38	847.58	5.80	W/INTERNAL CHIMNEY SEAL; SEAL JOINTS
SAS #12	20+93.61	RT-0'	857.01	848.85	8.16	
SAS #13	16+58.89	RT-0'	864.80	855.20	9.60	W/INTERNAL CHIMNEY SEAL
SAS #14	15+31.93	RT-0'	866.61	856.00	10.61	

ADAMS ST

SAS #11	72+12.22	LT-38.82	853.50	847.86	5.64	SEAL JOINTS
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MOUND ST

SAS #9	54+50.02	RT-0'	870.84	858.50	12.34	
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SANITARY STRUCTURE REMOVALS

SAS NO.	STATION	LOCATION (OFFSET)	EX TOP CASTING	EX EI	DEPTH	NOTES
4553-034	27+27.00	RT-1.00	853.58	849.68	3.90	REMOVE
4553-035	25+58.79	RT-0'	853.65	848.10	5.55	REMOVE
4553-036	24+01.98	RT-0'	853.71	847.71	6.00	REMOVE
4553-033	22+60.10	RT-1.00	854.07	848.49	5.58	REMOVE
4553-032	19+65.00	RT-0'	864.80	855.19	9.61	REMOVE
4654-016	17+30.00	RT-5.00	865.60	858.76	6.84	REMOVE
4654-014	14+65.00	LT-4.75	868.50	857.25	11.25	REMOVE; (2)
4654-018	13+64.33	RT-1.04	866.39	856.54	9.85	REMOVE
4554-013	12+30.00	RT-0'	864.08	854.31	9.77	REMOVE
4554-026	54+40.00	RT-.28	870.80	858.00	12.80	REMOVE STANDPIPE
4554-025	54+32.76	RT-0'	870.78	857.97	12.81	REMOVE
4554-024	50+80.69	RT-1.85	858.90	851.60	7.30	REMOVE
4553-037	72+05.00	LT-5.00	853.52	848.57	4.95	REMOVE
N/A	20+30.00	RT-0'	860.00	850.50	9.50	REMOVE

SANITARY STRUCTURE ADJUSTMENTS

SAS NO.	STATION	LOCATION (OFFSET)	EX TOP CASTING	PROP TOC	ADJUST AMOUNT (IN)	AVAILABLE ADJUSTMENT (IN)	STRUCTURE TYPE	NOTES
4553-038	22+95.53	RT-.34	853.97	853.88	1.08	12	PRECAST 4'R FLAT TOP	ADJUST
MH08-118	16+61.50	RT-7.50	864.78	864.46	3.84	24	PRECAST 5'R	ADJUST; NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH08-119	22+52.56	RT-9.50	854.24	853.85	4.68	4	PIP, 4'X6'	ADJUST; NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH08-120	27+25.24	RT-8.00	853.55	853.56	-0.12	1	PIP, 4'X6'	ADJUST; NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
4553-001	65+29.97	RT-0'	856.61	856.59	0.24	3	PRECAST 4'R	ADJUST
4553-002	65+65.16	RT-21.50	856.99	856.84	1.80	12	PRECAST 4'R	ADJUST
4554-024	50+80.69	RT-1.85	858.90	858.54	4.32	8	PRECAST 4'R	ADJUST

SPECIFIC NOTES

(1) STRUCTURE TAP AND DROP CONNECTIONS SHALL BE INSPECTED AND APPROVED BY MMSD AND SHALL MEET ALL CONNECTION CRITERIA

CONTACT RAY SCHNEIDER AT (608) 347-3628 5 DAYS PRIOR TO ANY WORK

TAP FEE (\$950) IS RESPONSIBILITY OF CONTRACTOR

(2) FIELD VERIFY CONDITION AND CONSTRUCTABILITY OF EXISTING SAS PRIOR TO SUBMITTING PRE CAST DRAWING FOR REPLACEMENT STRUCTURE SAS#5

PROPOSED SANITARY PIPES

FROM SAS (DNSTM)	TO SAS (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
4553-038	SAS #10	94	847.32	847.58	0.28%	8"	SDR 35	TAP; RECONSTRUCT BENCH & FL
MH08-119	SAS #2	7	847.42	848.11	9.86%	8"	SDR 35	TAP;(1)
SAS #12	SAS #3	141	848.95	854.50	3.94%	8"	SDR 35	
SAS #6	SAS #7	168	853.52	855.00	0.88%	8"	SDR 35	
SAS #10	SAS #11	44	847.68	847.86	0.41%	8"	SDR 35	
SAS #10	SAS #1	294	847.58	848.41	0.28%	8"	SDR 35	
SAS #2	SAS #12	159	848.21	848.85	0.40%	8"	SDR 35	
4554-024	SAS #9	370	851.70	858.50	1.84%	8"	SDR 35	TAP; RECONSTRUCT BENCH & FL
MH08-118	SAS #13	5	855.00	855.20	4.00%	8"	SDR 35	(1); INSIDE DROP EI=855.00,EI= 848.00
SAS #13	SAS #4	91	855.70	858.00	2.53%	8"	SDR 35	
SAS #13	SAS #14	127	855.30	856.00	0.55%	8"	SDR 35	

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE (DIA)	NOTES
4553-034	4553-035	169	Y/N	8"	REMOVE 39' PAID; 27+27 TO 26+86
4553-035	4553-036	156	N	8"	REMOVE
4553-036	4553-038	106	N	8"	REMOVE
4553-036	4553-037	68	Y/N	6"	REMOVE 18' PAID 23+98 RT-0 TO 23+87 LT-16
4553-033	4553-032	295	N	6"	REMOVE
4654-016	4654-014	264	Y/N	6"	REMOVE 70' PAID 16+58 TO 17+50
4654-018	4554-013	134	N	6"	REMOVE
4554-026	4554-025	10	N	6"	REMOVE
4554-025	4554-024	352	N	6"	REMOVE
SAS#7	4554-013	30	N	8"	REMOVE
SAS #5	SAS #14	63	N	6"	ABANDON WITH PLUGS

STORM SEWER SCHEDULE

RANDALL/ADAMS/MOUND
PROJECT NO. 53W1847

SHEET NO.
U-9

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S RANDALL AVE							
S-0	27+33.00	LT-16.70	TAP	---	848.74	---	
S-1	27+18.00	LT-16.70	6X6 CB W/SNOUT	853.72	848.80	4.92	FP; (3); (5)
S-1A	26+78.50	RT-16.70	H INLET	853.50	850.50	3.00	LP; FP; W/R-3067-7004-VB; (1)
S-2	26+22.00	LT-16.70	5X5 SAS	853.00	849.10	3.90	LP; FP; W/3067-7004-VB; (1)
S-2A	26+31.50	RT-16.70	H INLET	853.26	850.25	3.01	LP; FP; W/R-3067-7004-VB; (9)
S-2B	25+87.60	LT-33.50	3X6 SAS	853.11	849.80	3.31	(4); (6)
S-3	24+12.25	LT-16.70	3X3 SAS	853.55	849.80	3.75	LP;FP; W/3067-7004-VB
S-4	24+00.00	RT-16.70	H INLET	853.20	850.16	3.04	LP; FP; W/3067-7004-VB; (1)
S-5	22+95.37	RT-16.70	H INLET	853.67	850.68	2.99	LP; FP; W/3067-7004-VB; (1)
S-20	16+77.00	RT-23.50	H INLET	864.91	860.57	4.34	W/1878-B7L
S-21	16+81.00	RT-18.00	TERRACE INLET TYP III	864.28	860.70	3.58	FP; SEE S.D.D.5.7.12B
S-22	16+52.80	LT-15.00	H INLET	865.35	862.15	3.20	LP;3067-7004-VB
S-50	22+73.30	RT-0	TAP	---	848.76	---	W/ MARKER BALL; (11)
S-51	22+64.00	LT-4.00	3X3 SAS	853.91	849.00	4.91	W/1550-0054
S-51A	22+64.00	LT-16.50	H INLET	853.50	850.30	3.20	LP; W/3067-7004-VB
S-52	22+24.50	LT-4.00	3X3 SAS	854.05	850.20	3.85	W/1550-0054
S-52A	22+37.00	RT-20.75	H INLET	854.08	850.88	3.20	W/3067-7004-V
S-53	21+05.80	LT-4.00	3X3 SAS	856.45	852.00	4.45	W/1550-0054
S-53A	21+02.00	LT-15.25	H INLET	856.83	853.00	3.83	W/3067-7004-V; (1)
S-54	20+92.40	RT-16.50	EX SAS 4653-124	857.04	N/A	N/A	SEE ULO
ADAMS ST							
S-3A	17+12.63	LT-15.50	H INLET	853.62	850.42	3.20	W/3067-7004-V
MOUND ST							
S-30	50+91.96	RT-22.73	8" PIPE END	---	855.31	---	
S-31	50+93.18	LT-17.88	H INLET	857.91	855.41	2.50	FP;(9);W/3067-7004-V
S-32	51+10.00	RT-15.30	H INLET	859.84	856.70	3.14	FP;W/3067-7004-V; (10)
S-34	50+19.00	RT-19.00	H INLET	856.51	854.26	2.25	FP;(9);W/3067-7004-V
S-35	50+91.55	RT-23.00	H INLET	859.44	856.60	2.84	FP;W/3067-7004-V
S-37	50+23.95	RT-20.50	H INLET	856.64	853.94	2.70	FP;W/3067-7004-V
S-38	50+40.00	RT-37.75	90 DEG VERT BEND	---	854.00	---	(7)
S-39	50+44.45	LT-43.26	8" PIPE END	---	855.31	---	
S-40	50+24.78	LT-43.23	8" PIPE END	---	855.31	---	
S-41	50+23.16	LT-38.36	90 DEG VERT BEND	---	854.00	---	(8)

PROPOSED STORM 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	16	13.0	848.74	848.80	0.46%	24"	RCP	STM TAP
P-1A	S-1	S-1A	50	45.0	850.26	850.50	0.53%	12"	RCP	NCM
P-2	S-1	S-2	95	90.0	848.80	849.10	0.33%	24"	RCP	
P-2A	S-2	S-2A	34	30.0	850.09	850.25	0.53%	12"	RCP	NCM, W/CONC SUPPORTS
P-2B	S-2	S-2B	42	38.0	849.60	849.80	0.53%	18"	RCP	NCM
P-3	S-2	S-3	210	206.0	849.10	849.80	0.34%	18"	RCP	
P-3A	S-3	S-3A	52	49.0	850.07	850.42	0.71%	12"	RCP	NCM
P-4	S-3	S-4	35	32.0	849.95	850.16	0.66%	12"	RCP	NCM
P-5	S-4	S-5	105	102.0	850.16	850.68	0.51%	12"	RCP	
P-21	S-20	S-21	7	5.0	860.57	860.70	2.60%	18"	RCP	
P-22	S-21	S-22	34	33.0	860.85	862.15	3.94%	12"	RCP	
P-31	S-30	S-31	34	33.0	855.31	855.41	0.30%	8"	STM PIPE	
P-32	S-31	S-32	37	34.0	855.41	856.70	3.79%	12"	RCP	NCM; (10)
P-34	CMP	S-34	15	12.0	FIELD	854.26	FIELD	12"	STM PIPE	TAP
P-35	S-34	S-35	86	83.0	854.41	856.60	2.64%	12"	RCP	
P-36	S-35	S-32	20	17.0	856.60	856.70	0.59%	12"	STM PIPE	
P-37	CMP	S-37	12	7.0	FIELD	853.94	FIELD	12"	STM PIPE	TAP
P-38	S-37	S-38	23	22.5	853.94	854.00	0.27%	8"	STM PIPE	
P-40	S-39	S-40	20	19.5	855.31	855.31	0.00%	8"	STM PIPE	
P-41	S-37	S-41	18	16.5	853.94	854.00	0.36%	8"	STM PIPE	W/22.5 DEG BEND
P-51	S-50	S-51	11	9.0	848.76	849.00	2.67%	15"	RCP	NCM; TAP; (11)
P-51A	S-50	S-51A	12	10.0	850.21	850.30	0.90%	12"	RCP	NCM
P-52	S-51	S-52	39	36.0	850.00	850.20	0.56%	15"	RCP	
P-52A	S-52	S-52A	28	24.0	850.70	850.88	0.75%	12"	RCP	
P-53	S-52	S-53	119	116.0	850.20	852.00	1.55%	15"	RCP	
P-53A	S-53	S-53A	12	9.5	852.25	853.00	7.89%	12"	RCP	
P-54	S-53	S-54	24	21.0	852.25	N/A	N/A	12"	RCP	
P-60	CMP	4553-042	15	15.0	FIELD	FIELD	FIELD	12"	STM PIPE	TAP 65+49, RT-19.0
P-61	CMP	EX DOUBLE INL	8	5.0	FIELD	FIELD	FIELD	15"	STM PIPE	TAP; 71+54, RT 21.50
P-62	4553-081	4553-054	14	12.0	FIELD	FIELD	FIELD	12"	STM PIPE	TAP @ 4553-081

NOTE: PLAN 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) WITH TYPE II PRIVATE STORM RECONNECT
- (2) W/ 3' SUMP BELOW LISTED INVERT
- (3) PER S.D.D. 5.7.4; WITH 24F MODEL SNOUT STORMWATER TREATMENT DEVICE. 5' SUMP BELOW LISTED INVERT
- (4) RECONNECT EX 15" VP STM @EI=850.09
- (5) STRUCTURE HAS 2 CASTINGS. 3067 CASTING IN CURB LINE STATIONED, 1550 IN STREET.
- (6) STRUCTURE SHALL HAVE CASTING 2262-L (CL OF ALLEY) SEE S.D.D. 5.7.33. CONNECT EX 15" STM OFFSET.
- (7) WITH RISER PIPE. TOP OF RISER PIPE ELEV=856.5
- (8) WITH RISER PIPE. TOP OF RISER PIPE ELEV=855.8
- (9) STRUCTURE DEPTH MAY REQUIRE PIPE WALLS BE POURED INTEGRAL TO STRUCTURE ROOF
- (10) INSTALL TEMPORARY PLUG IN P-32 AT S-32
- (11) WITH CONCRETE PIPE SUPPORTS AT TAP

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 COREY OF CITY ENGINEERING AT (608) 266-9721 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO CSTELLJES@CITYOFMADISON.COM.

STORM SEWER REMOVAL SCHEDULE

RANDALL/ADAMS/MOUND
PROJECT NO. 53W1847

SHEET NO.
U-10

STORM REMOVAL SCHEDULE

CITY OF MADISON

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	IN 4553-005	27+18.00	LT-18.00	INLET	REMOVE
RS-2	AS 4653-028	27+12.00	RT-19.00	4x6 SAS	REMOVE
RS-3	IN 4553-059	26+22.00	LT-17.00	INLET	REMOVE
RS-4	IN 4653-043	26+31.00	RT-17.00	INLET	REMOVE
RS-5	IN 4653-042	24+16.00	RT-17.00	INLET	REMOVE
RS-6	IN 4553-058	24+12.00	LT-17.00	INLET	REMOVE
RS-7	AS 4553-006	25+97.00	LT-18.00	SAS	REMOVE
RS-10	AS 4654-004	16+77.00	RT-23.50	5x7 SAS	REMOVE
RS-11	IN 4654-005	16+81.00	RT-17.00	INLET	REMOVE
RS-12	IN 5554-002	16+52.80	LT-17.00	INLET	REMOVE
RS-14	IN 4553-043	50+19.00	RT-19.00	INLET	REMOVE
RS-15	IN 4554-001	50+91.55	RT-23.00	INLET	REMOVE
RS-16	IN 4553-044	50+23.95	RT-20.50	INLET	REMOVE
RS-17	IN 4553-036	22+63.00	LT-16.50	INLET	REMOVE
RS-18	IN 4553-035	22+38.00	RT-22.00	INLET	REMOVE
RS-20	IN 4653-034	22+91.00	RT-16.50	INLET	REMOVE

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	S-0	RS-1	12	15"	VP	N	REMOVE; PATCH BOX (PLUG)
RP-2	RS-1	RS-3	91	15"	VP	Y	REMOVE
RP-3	RS-3	RS-6	206	15"	VP	N	REMOVE
RP-4	RS-5	RS-6	34	12"	VP	Y	REMOVE
RP-5	BOX	RS-2	15	15"	VP	Y	REMOVE
RP-6	RS-2	RS-5	289	15"	VP	N	ABANDON WITH PLUGS
RP-7	RS-4	RS-5	211	15"	VP	N	ABANDON WITH PLUGS
RP-8	RS-5	4653-034	122	15"	VP	N	ABANDON WITH PLUGS
RP-9	RS-7	S-2B	18	15"	VP	Y	REMOVE
RP-14	CMP	S-34	13	12"	CMP	N	REMOVE
RP-15	RS-37	RS-35	86	12"	VP	Y	REMOVE
RP-16	CMP	EX INL	12	15"	CMP	N	REMOVE
RP-17	RS-17	EX CMP	15	12"	CMP	Y	REMOVE PATCH CMP (PLUG)
RP-18	RS-18	EX CMP	24	12"	CMP	Y	REMOVE
RP-19	RS-18	S-54	145	12"	VP	N	ABANDON WITH PLUGS
RP-20	S-53A	S-54	40	12"	RCP	Y	REMOVE
RP-21	CMP	EX INL	5	15"	CMP	N	REMOVE PATCH CMP (PLUG)
RP-22	CMP	EX INL	12	12"	CMP	N	REMOVE

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	ELEV TOP	ELEV BOTTOM	NOTES
ULO-1	27+33.00	LT-16.70	STM BOX			SHOOT TOP AND BOTTOM OUTSIDE OF BOX
ULO-2	24+31.00	LT-16.50	GAS			
ULO-3	23+90.00	LT-29.00	ELEC			
ULO-4	20+92.40	RT-16.50	STM SAS			EI OF EX SAS. REMOVE INL BAG.
ULO-5	50+95.00	LT-11.50	ELEC			
ULO-6	50+70.00	RT-13.00	TEL			
ULO-7	25+74.00	LT-16.50	ELEC			
ULO-8	22+73.30	RT-0	EX CMP STM			SHOOT TOP AND BOTTOM OF CMP

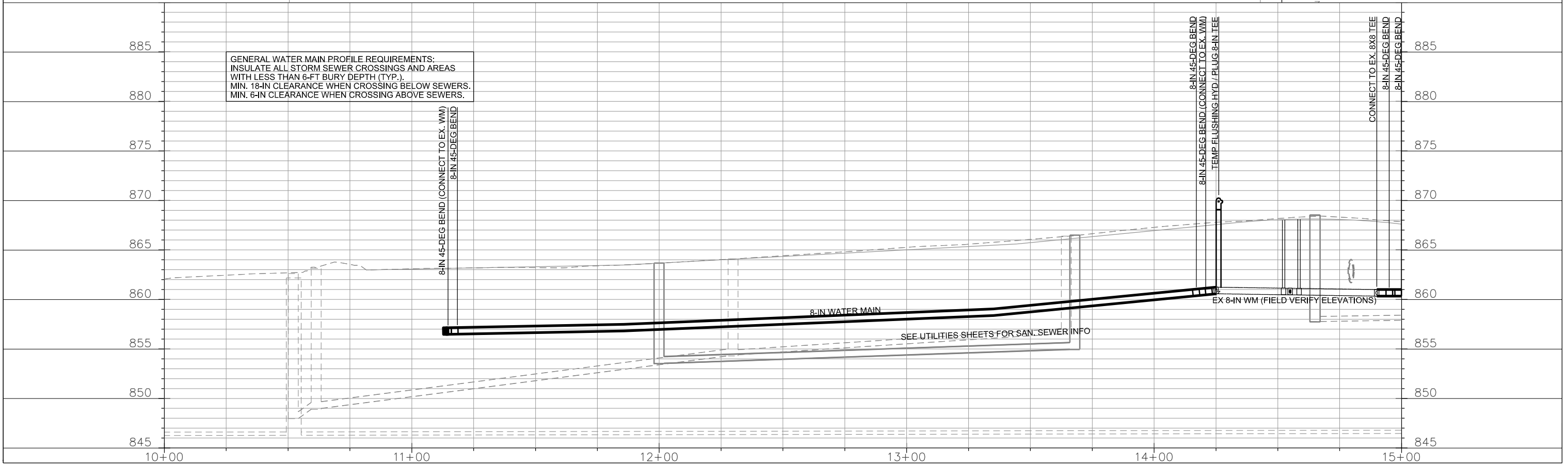
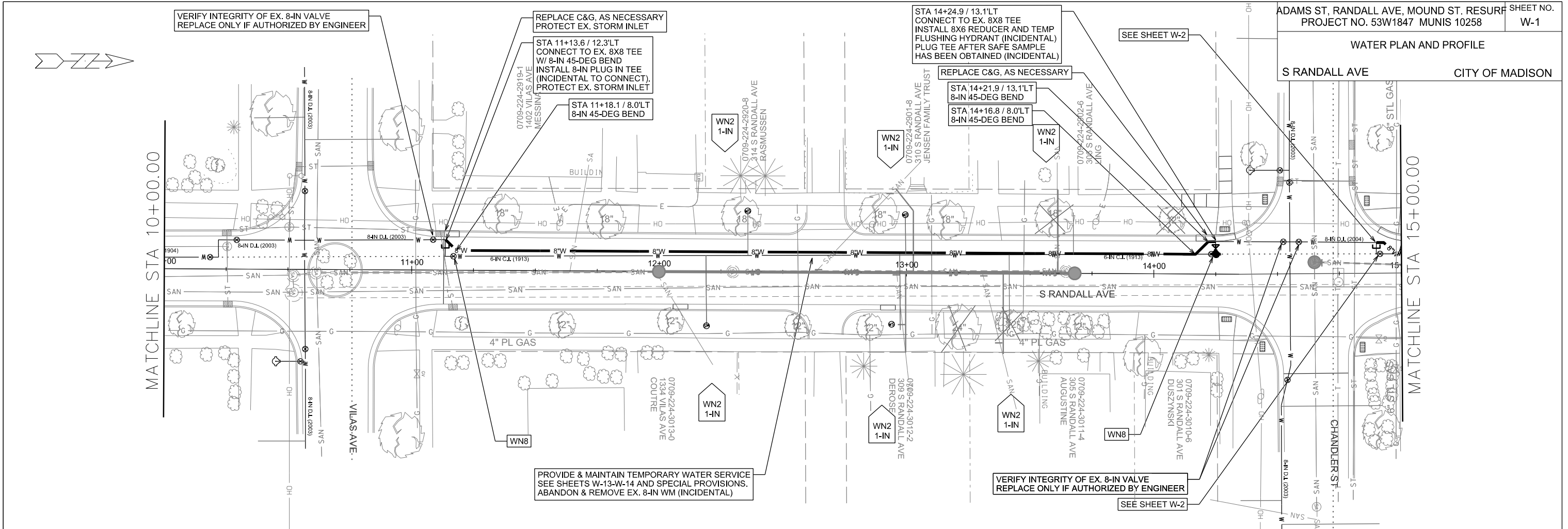
RAIN GARDEN GRADING

MOUND ST

POINT	STATION	LOCATION (OFFSET)	ELEV
A	50+45.12	LT-53.19	855.31
B	50+44.26	LT-43.26	855.31
C	50+52.18	LT-43.64	855.31
D	50+24.41	LT-63.28	855.31
E	50+21.87	LT-39.11	855.31
F	50+24.73	LT-38.88	855.31

STANDARD NOTES:

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PLOT SCALE:

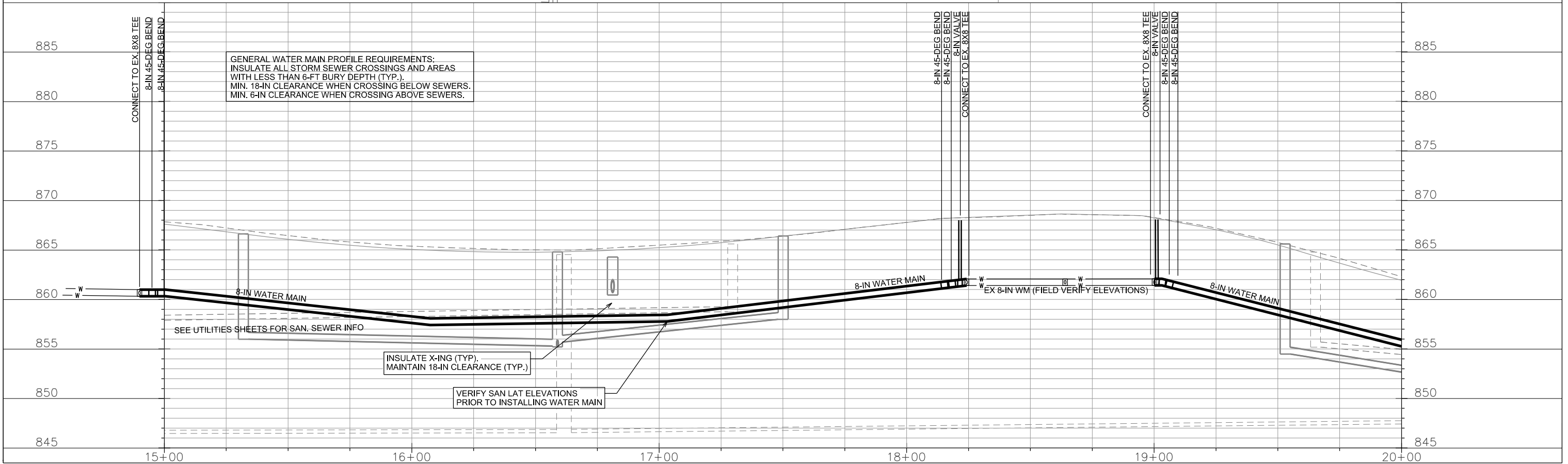
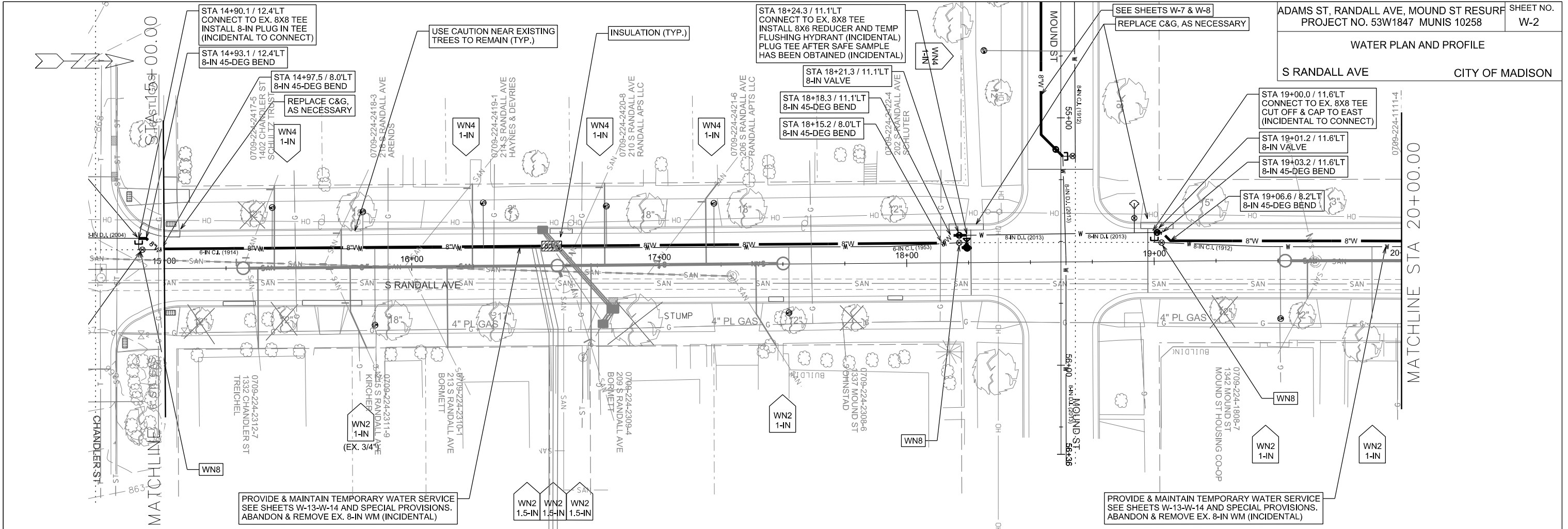
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

S RANDALL AVE CITY OF MADISON

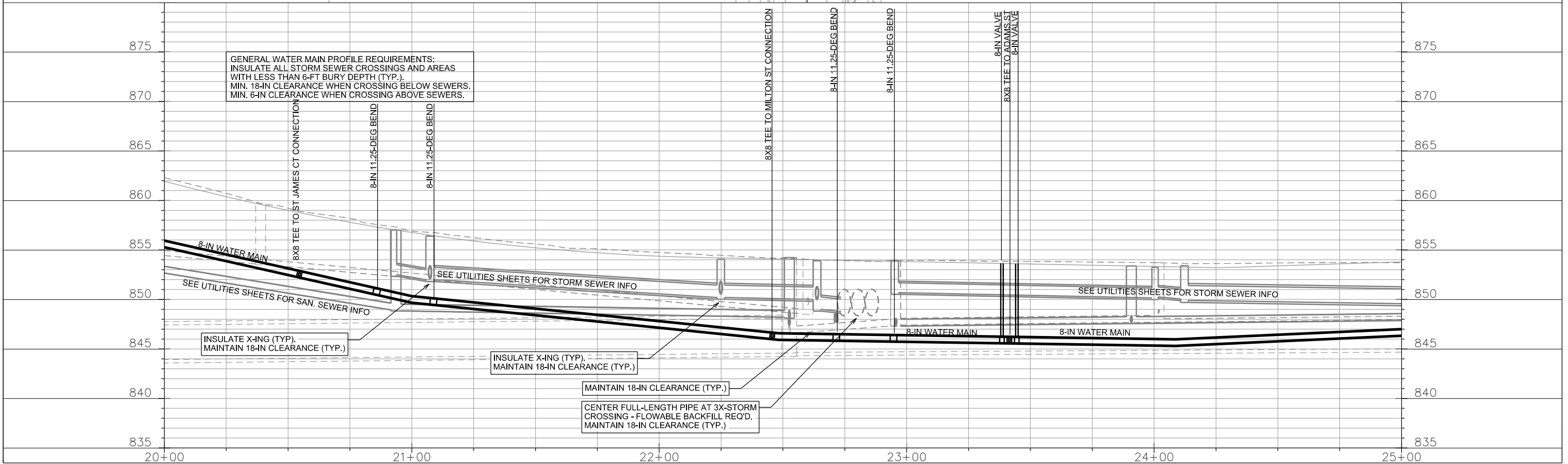
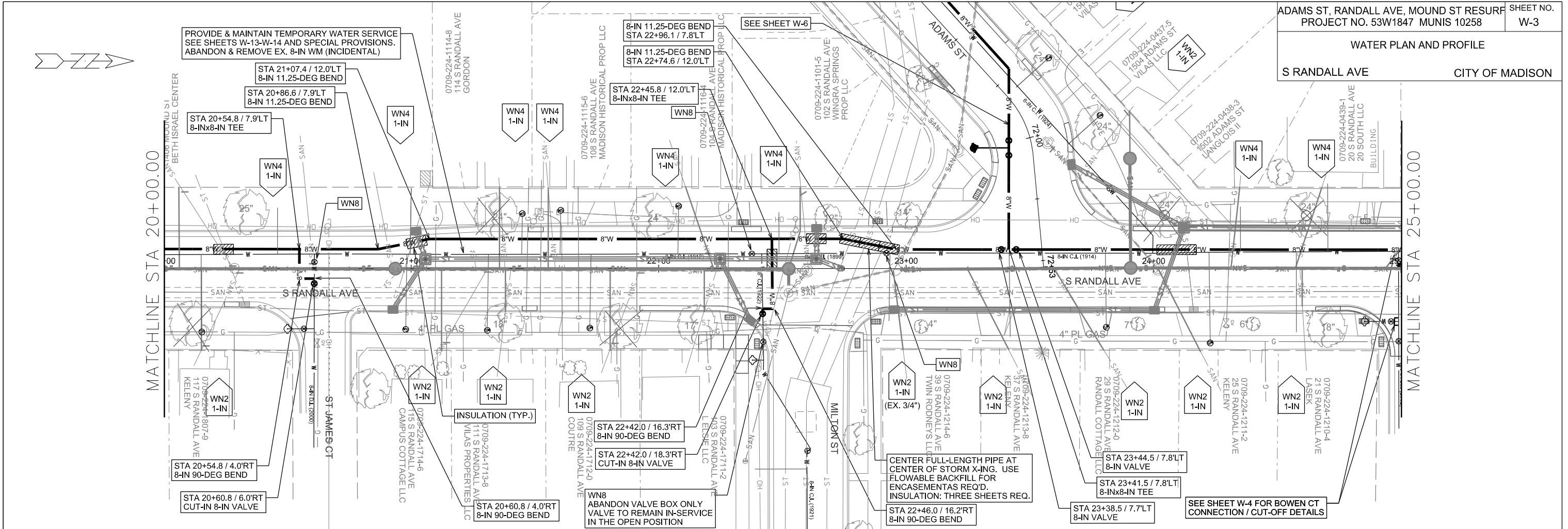


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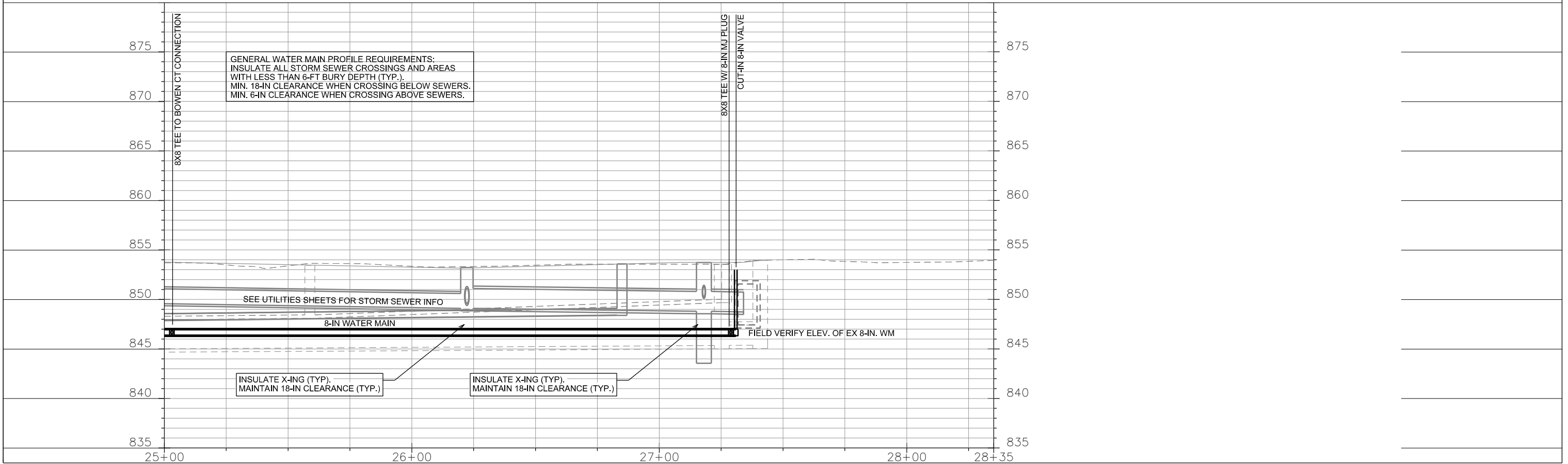
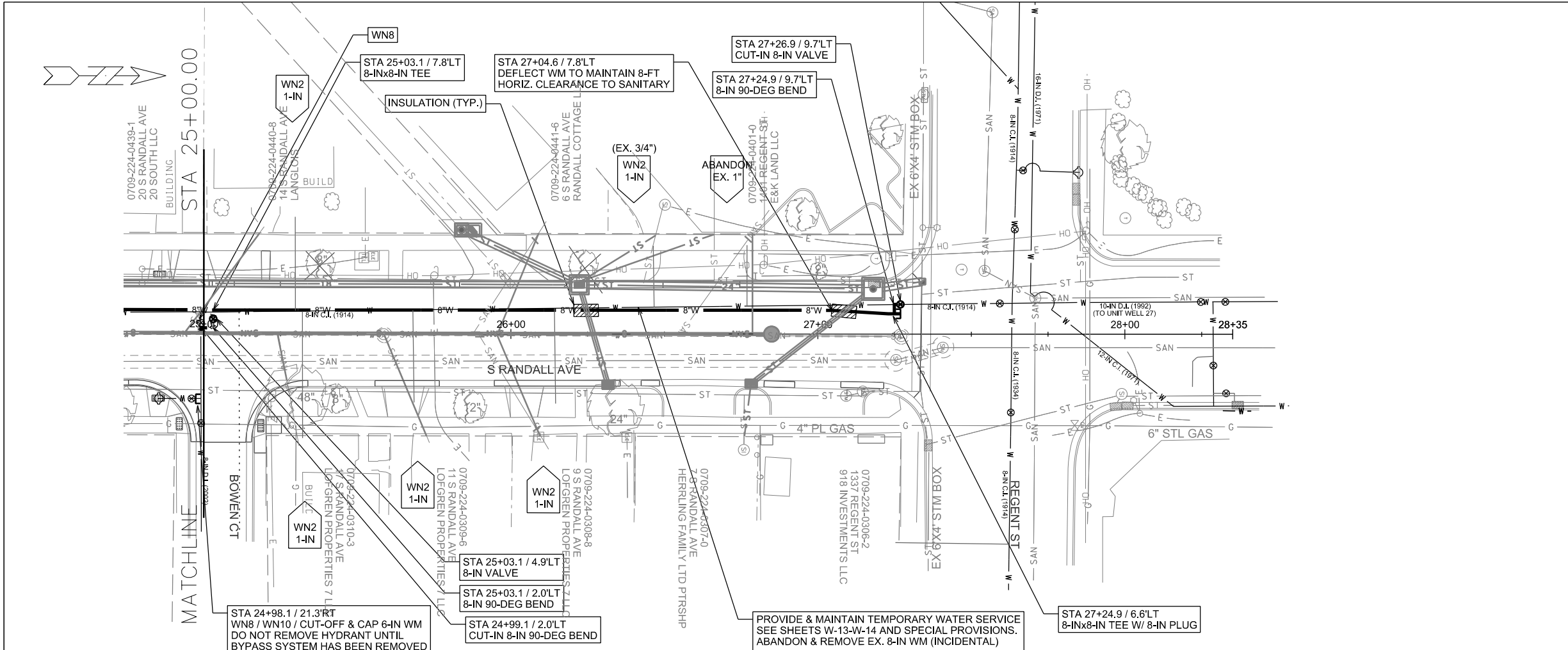
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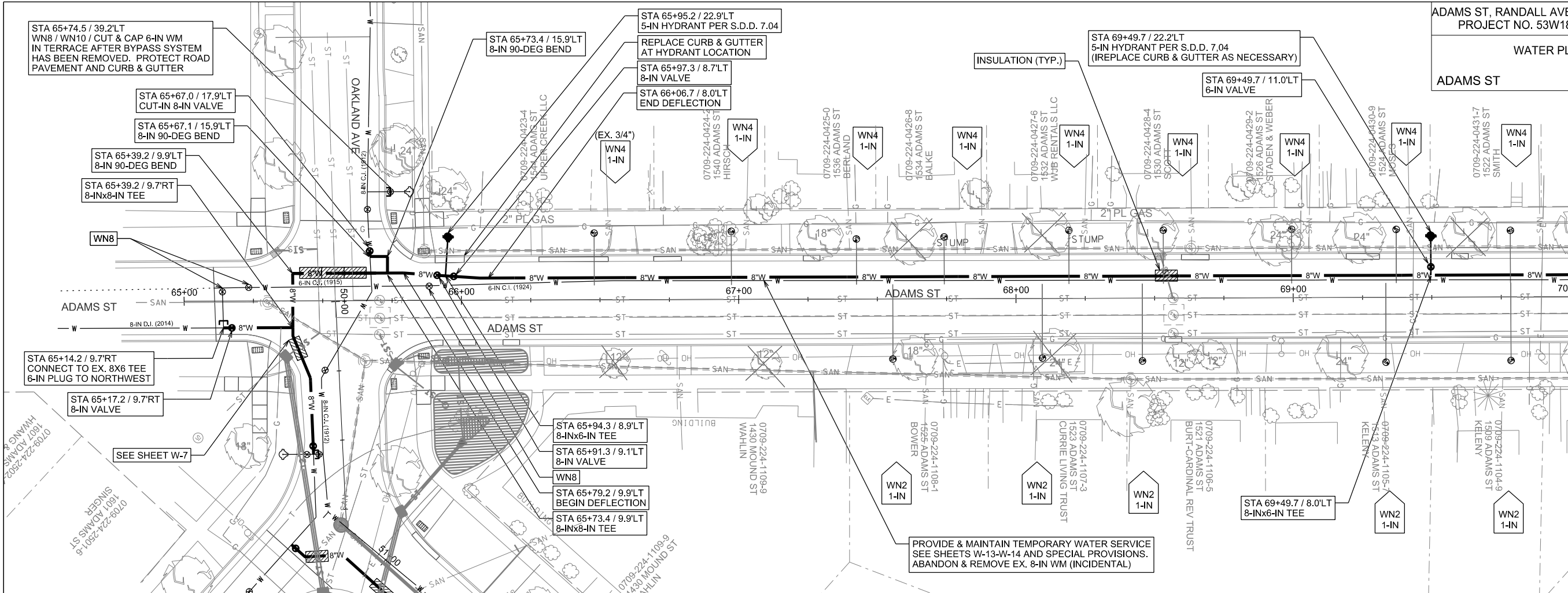
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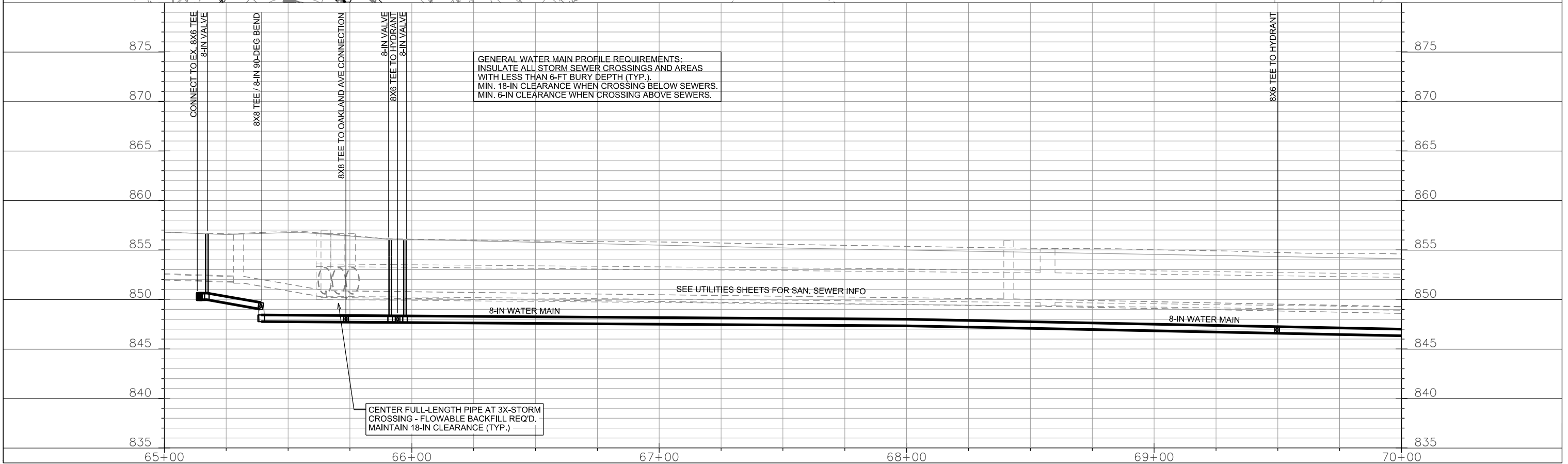
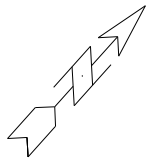
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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 70+00.00

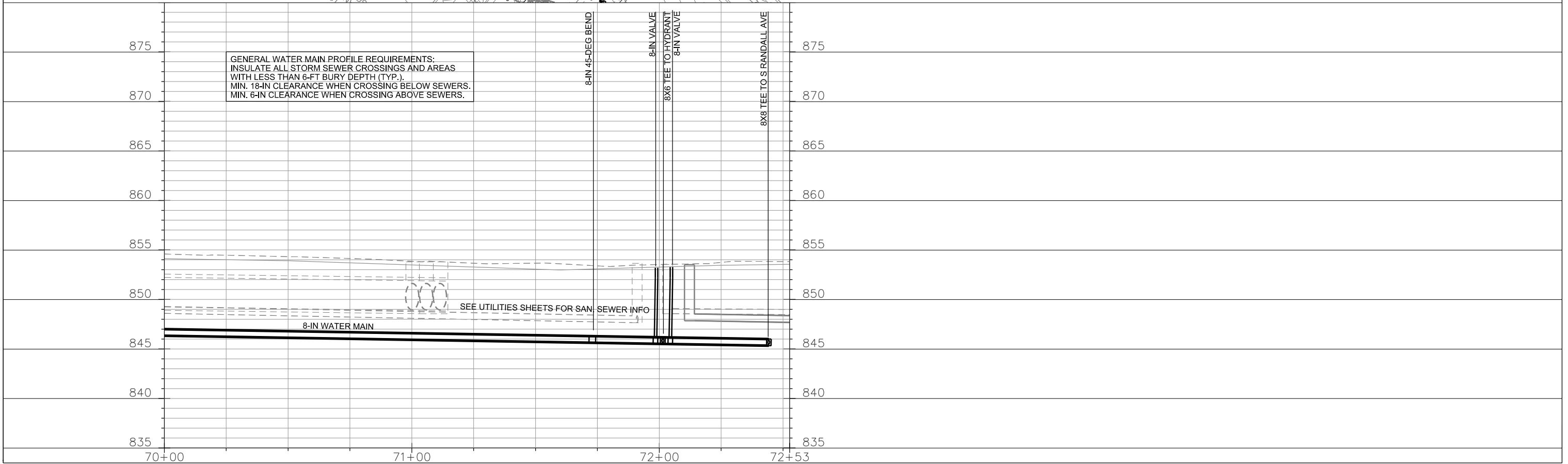
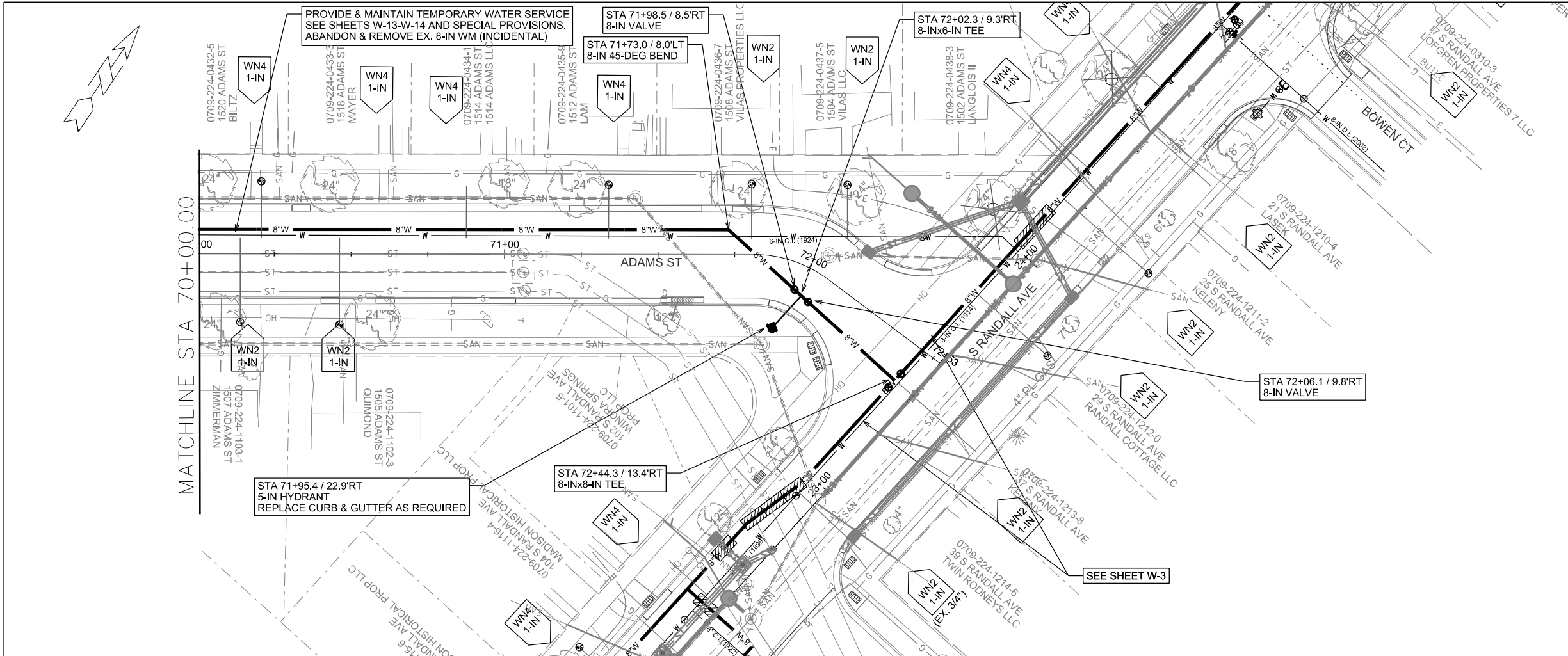


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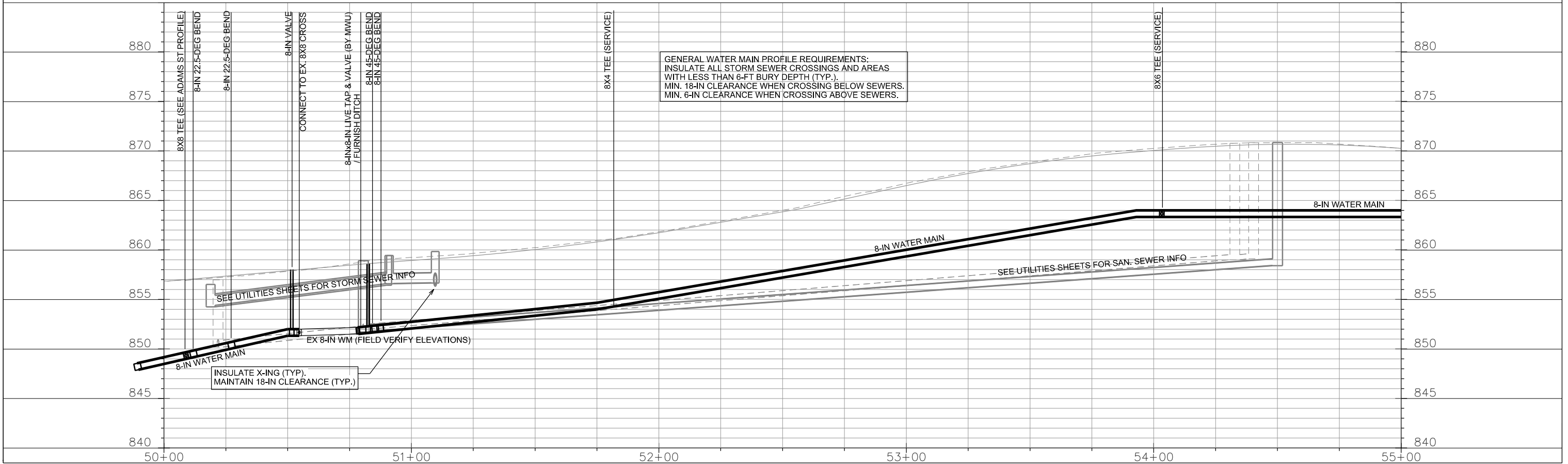
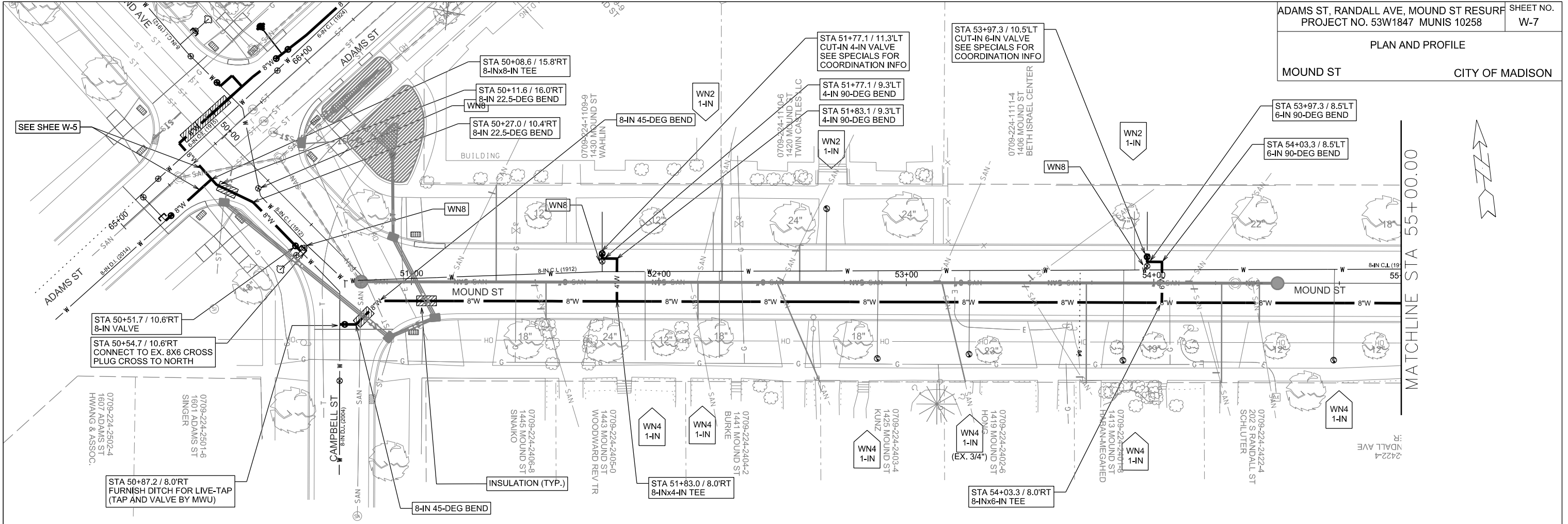
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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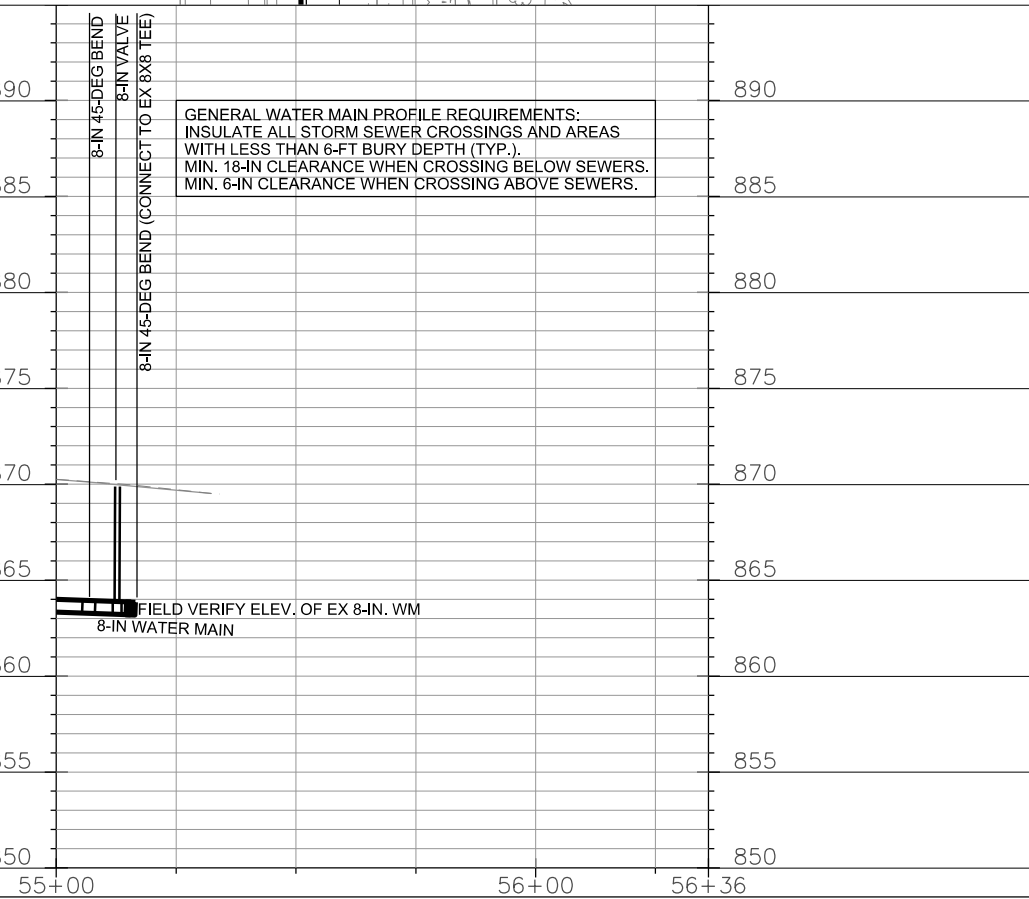
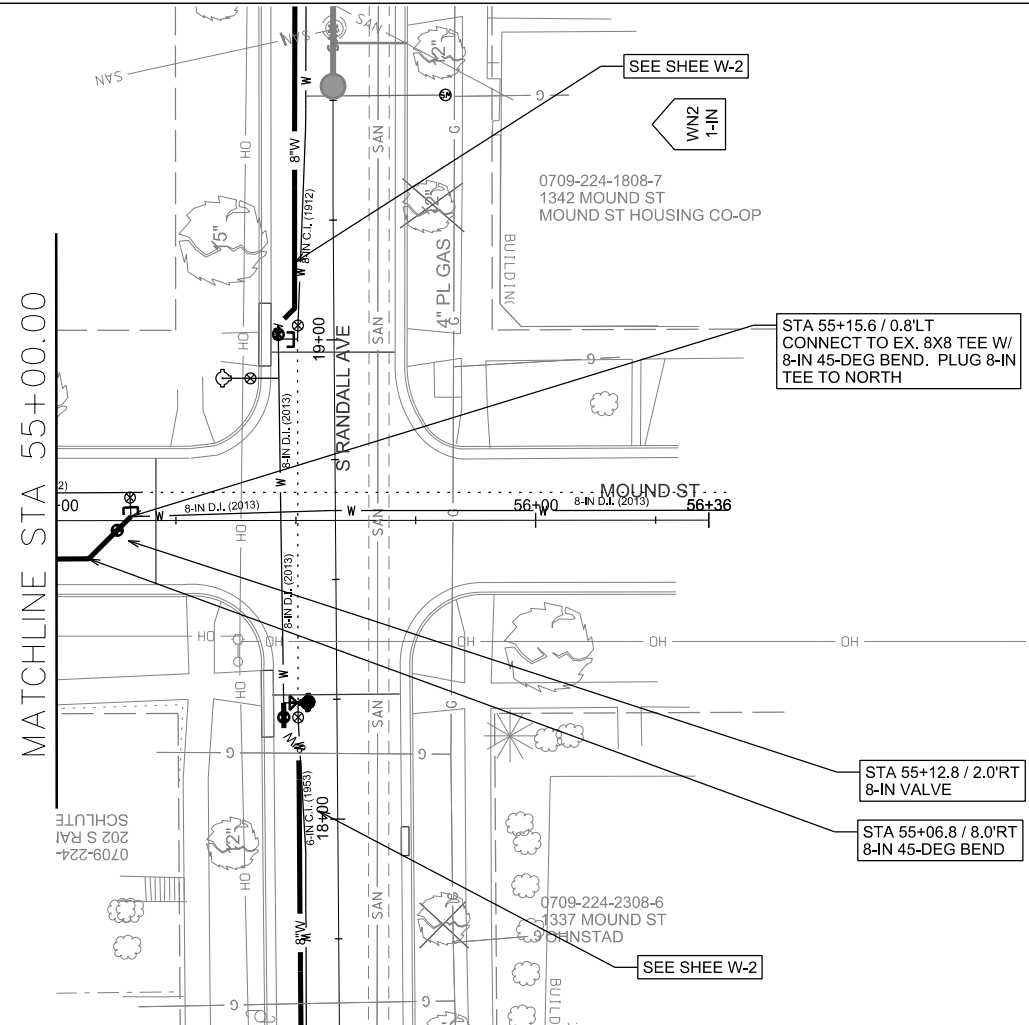
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REV. DATE:

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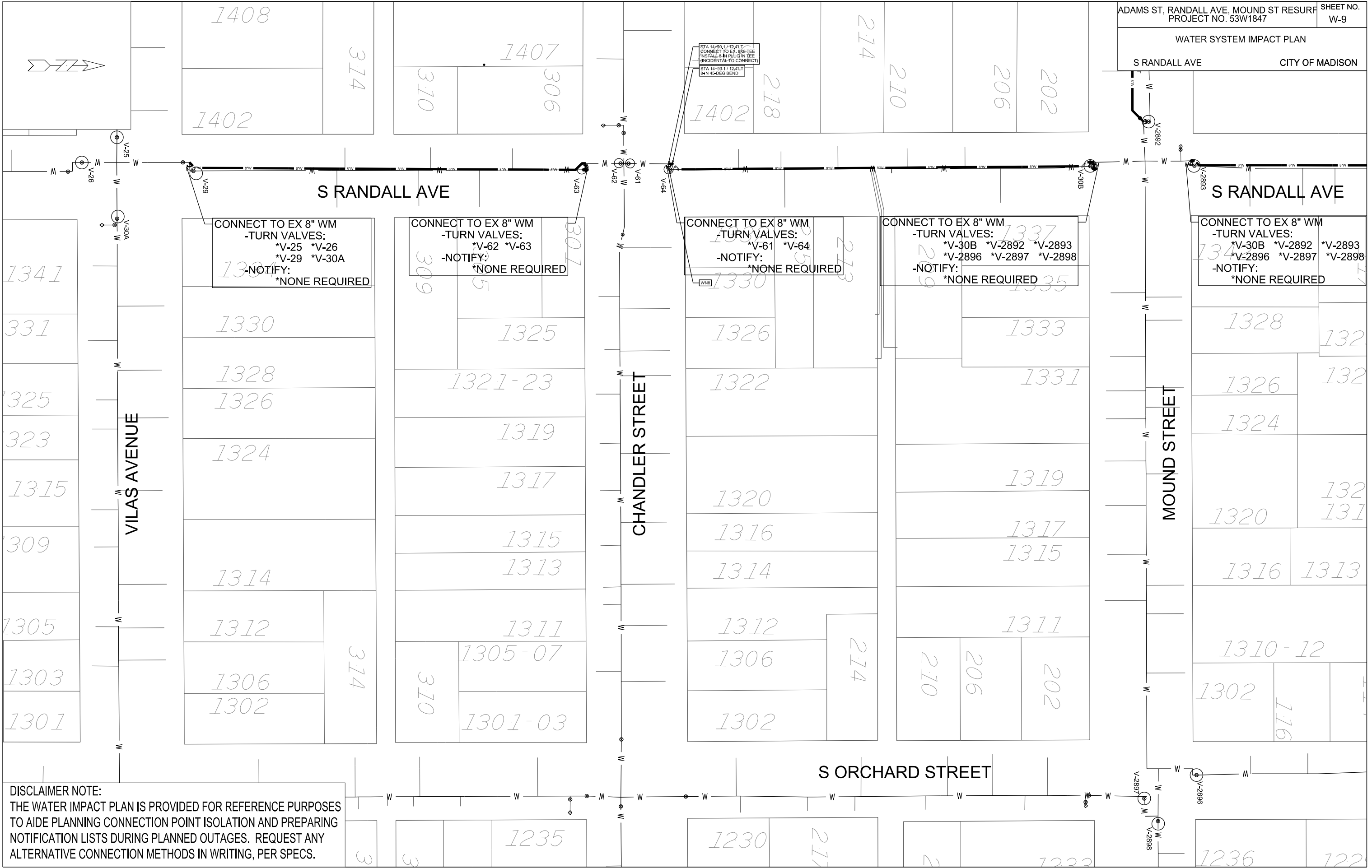
WATER PLAN AND PROFILE
MOUND ST CITY OF MADISON



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

WATER SYSTEM IMPACT PLAN

S RANDALL AVE CITY OF MADISON



CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-25 *V-26
 *V-29 *V-30A
 -NOTIFY:
 *NONE REQUIRED

CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-62 *V-63
 -NOTIFY:
 *NONE REQUIRED

CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-61 *V-64
 -NOTIFY:
 *NONE REQUIRED

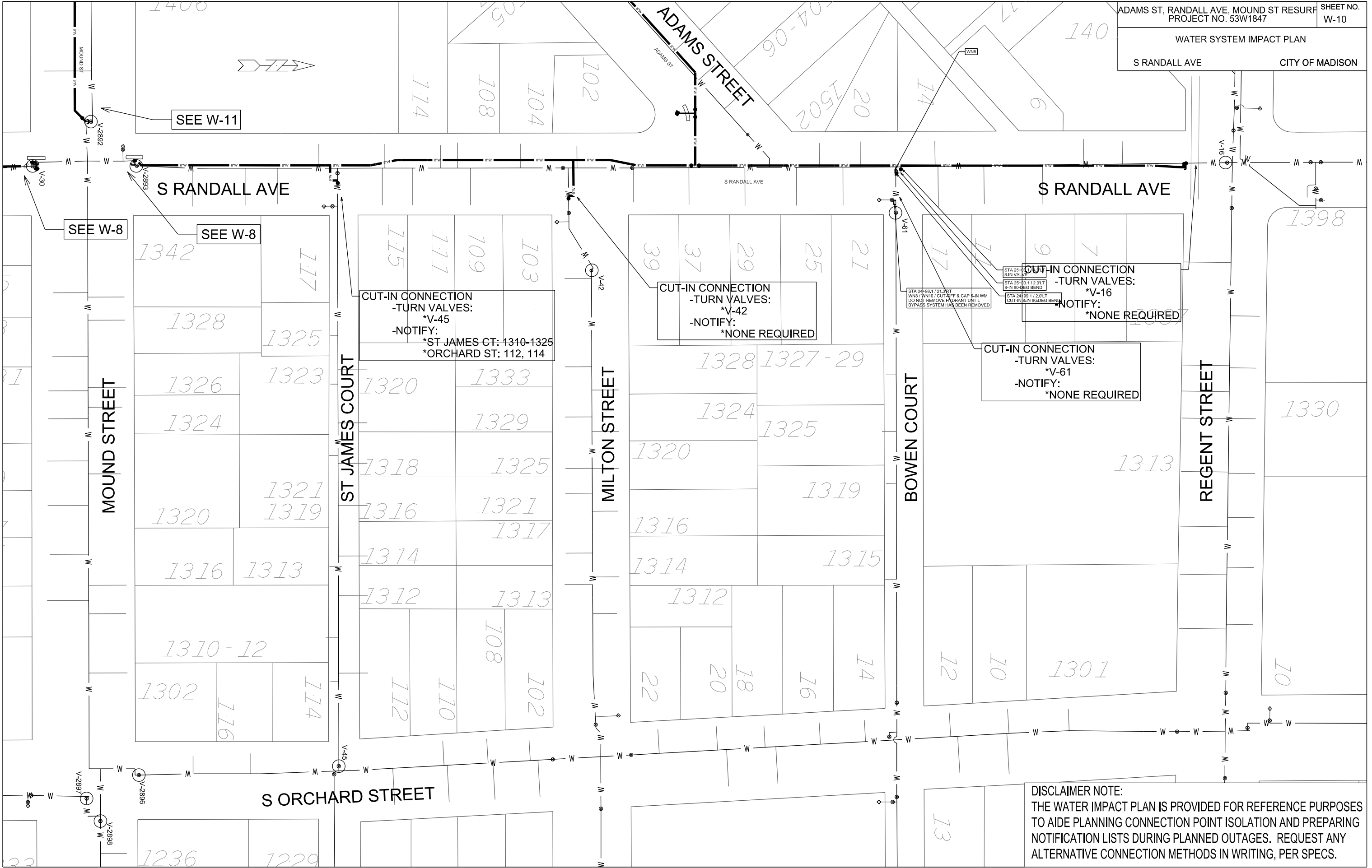
CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-30B *V-2892 *V-2893
 *V-2896 *V-2897 *V-2898
 -NOTIFY:
 *NONE REQUIRED

CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-30B *V-2892 *V-2893
 *V-2896 *V-2897 *V-2898
 -NOTIFY:
 *NONE REQUIRED

STA 14+90.1/12,4LT
 CONNECT TO EX. 8" TEE
 INSTALL 4" PLUG IN TEE
 (INCIDENTAL TO CONNECT)
 STA 14+93.1/12,4LT
 4" 45-DEG BEND

DISCLAIMER NOTE:
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 TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
 NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
 ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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



CUT-IN CONNECTION
 -TURN VALVES:
 *V-45
 -NOTIFY:
 *ST JAMES CT: 1310-1325
 *ORCHARD ST: 112, 114

CUT-IN CONNECTION
 -TURN VALVES:
 *V-42
 -NOTIFY:
 *NONE REQUIRED

CUT-IN CONNECTION
 -TURN VALVES:
 *V-16
 -NOTIFY:
 *NONE REQUIRED

CUT-IN CONNECTION
 -TURN VALVES:
 *V-61
 -NOTIFY:
 *NONE REQUIRED

DISCLAIMER NOTE:
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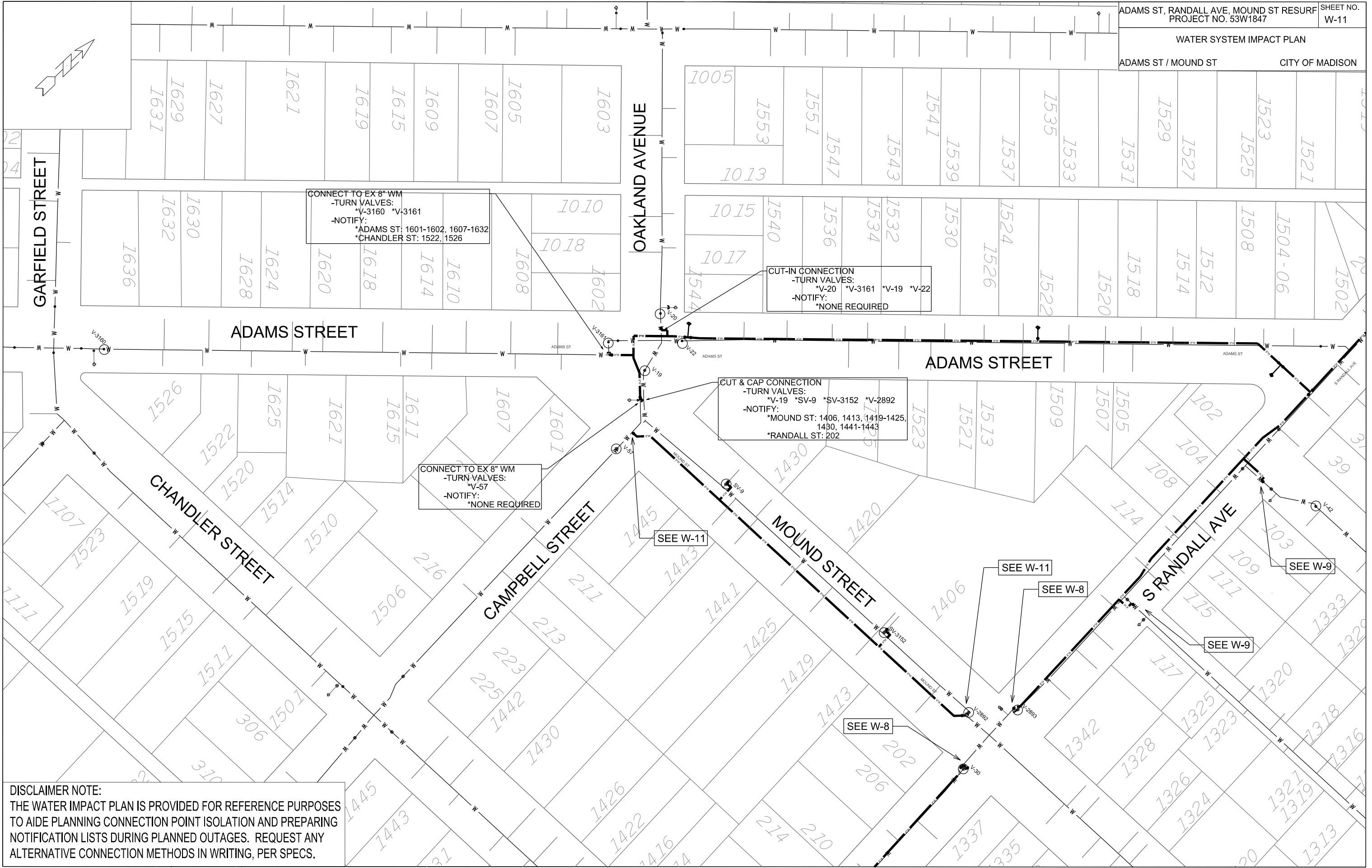
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:



CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-3160 *V-3161
 -NOTIFY:
 *ADAMS ST: 1601-1602, 1607-1632
 *CHANDLER ST: 1522, 1526

CUT-IN CONNECTION
 -TURN VALVES:
 *V-20 *V-3161 *V-19 *V-22
 -NOTIFY:
 *NONE REQUIRED

CUT & CAP CONNECTION
 -TURN VALVES:
 *V-19 *SV-9 *SV-3152 *V-2892
 -NOTIFY:
 *MOUND ST: 1406, 1413, 1419-1425,
 1430, 1441-1443
 *RANDALL ST: 202

CONNECT TO EX 8" WM
 -TURN VALVES:
 *V-57
 -NOTIFY:
 *NONE REQUIRED

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PLOT SCALE:

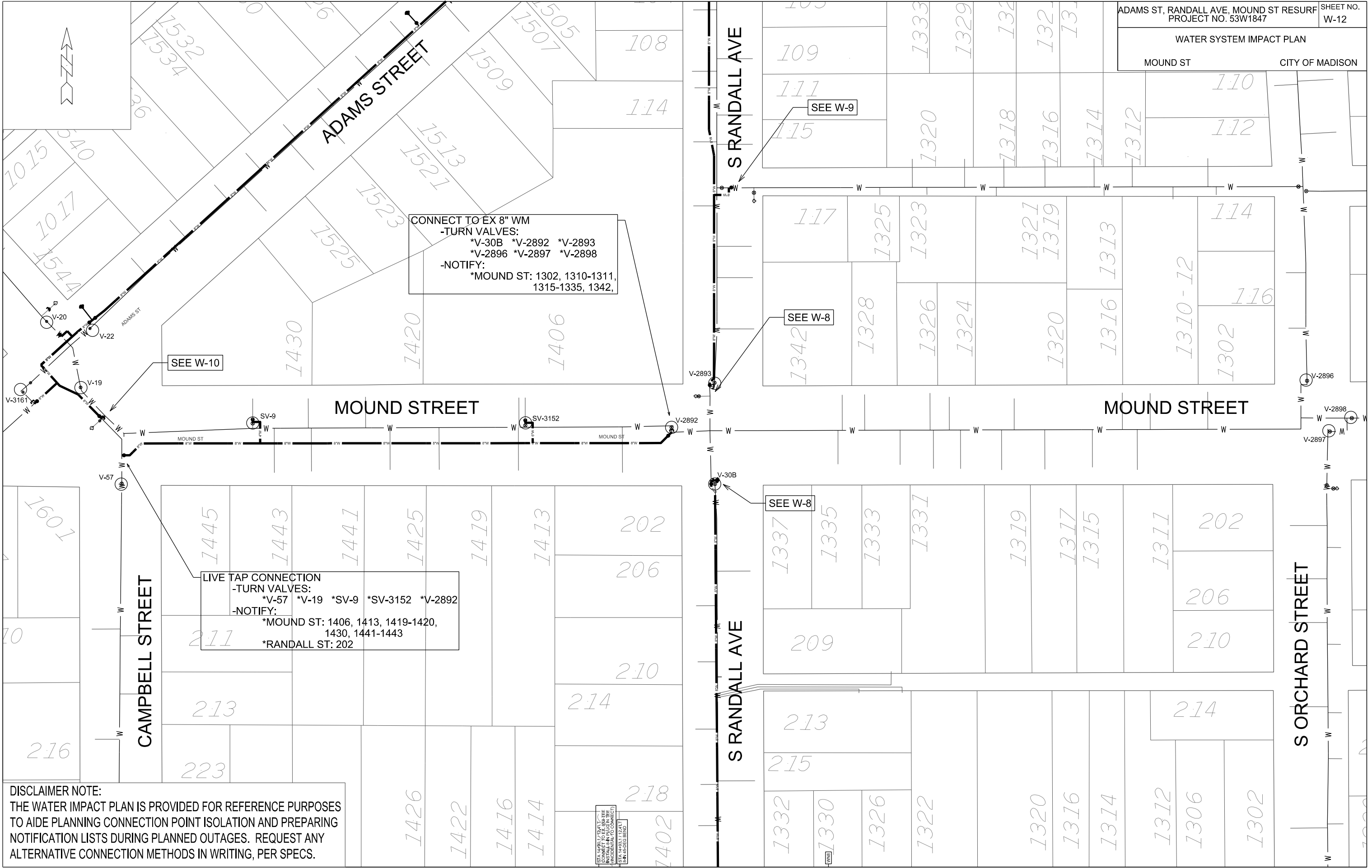
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:



CONNECT TO EX 8" WM
-TURN VALVES:
*V-30B *V-2892 *V-2893
*V-2896 *V-2897 *V-2898
-NOTIFY:
*MOUND ST: 1302, 1310-1311,
1315-1335, 1342,

LIVE TAP CONNECTION
-TURN VALVES:
*V-57 *V-19 *SV-9 *SV-3152 *V-2892
-NOTIFY:
*MOUND ST: 1406, 1413, 1419-1420,
1430, 1441-1443
*RANDALL ST: 202

DISCLAIMER NOTE:
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STA. 14+00.00 TO 14+00.00
INSTALL AN ISOLATION VALVE
(INCIDENTAL TO CONNECTION)
(SEE 4-2023 RESURF)

PLOT SCALE:

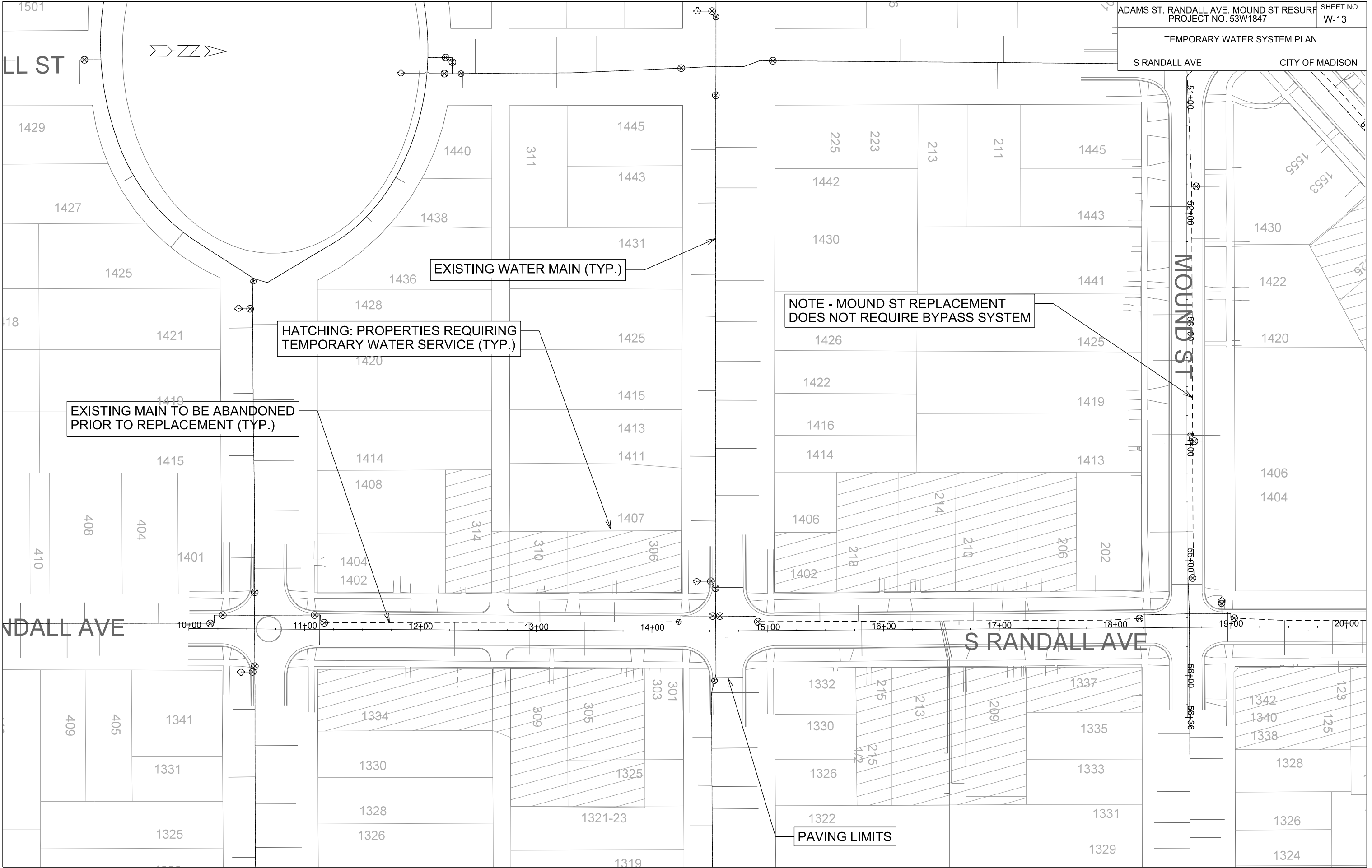
PLOT NAME:

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:



PLOT SCALE:

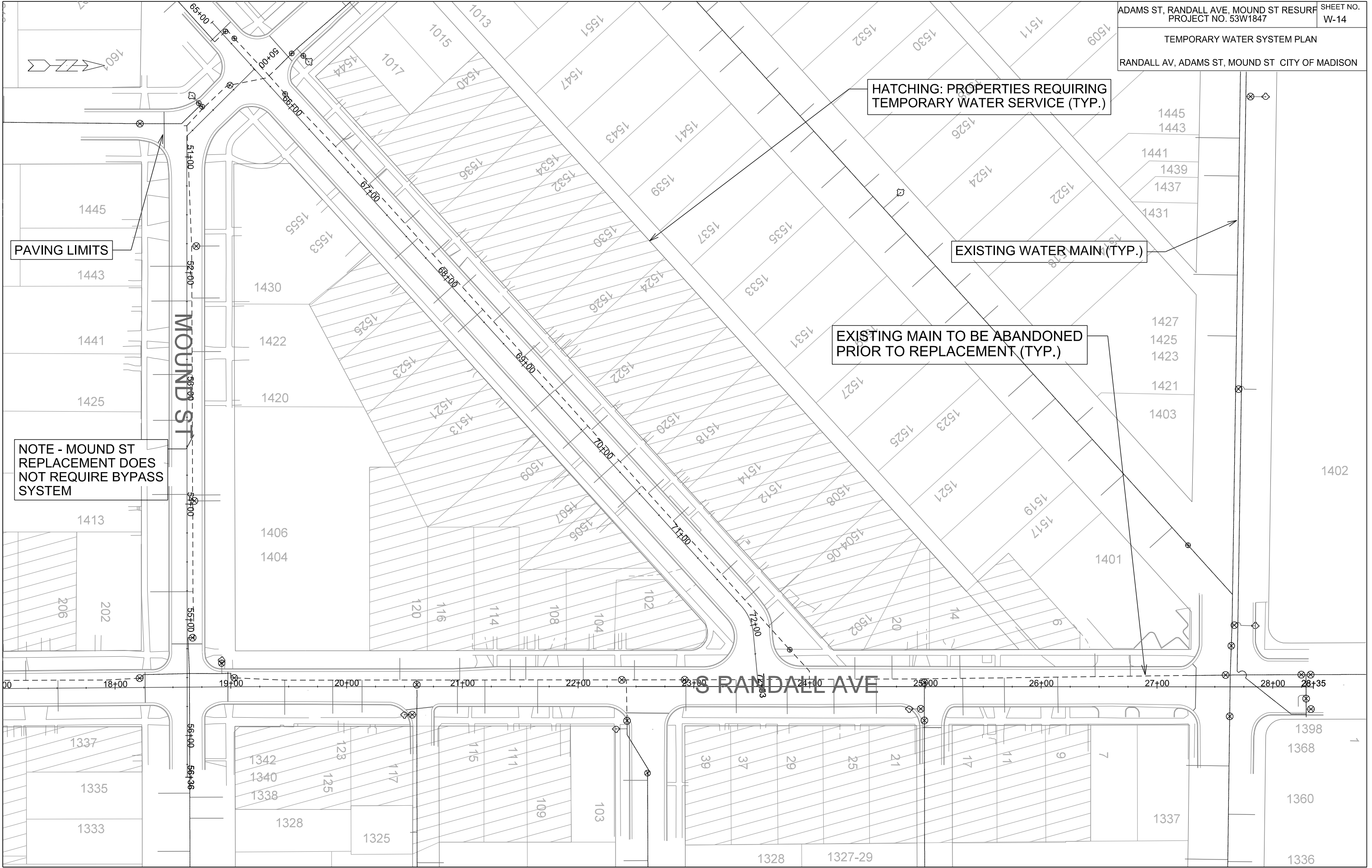
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FILE NAME:

DATE:



PLOT SCALE:

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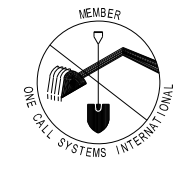
CONSTRUCTION NOTES:

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.

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.

- 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

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.

- 30-FT - 4-IN PIPE
- 80-FT - 6-IN PIPE
- 2900-FT - 8-IN PIPE
- 3350-FT - POLYWRAP
- 1 - 4-IN VALVE & BOX
- 2 - 6-IN VALVE & BOX
- 16 - 8-IN VALVE & BOX
- 2 - 4-IN 90° BEND
- 2 - 6-IN 90° BEND
- 11 - 8-IN 90° BEND
- 15 - 8-IN 45° BEND
- 2 - 8-IN 22.5° BEND
- 4 - 8-IN 11.25° BEND
- 1 - 8-IN X 4-IN TEE
- 4 - 8-IN X 6-IN TEE
- 7 - 8-IN X 8-IN TEE
- 2 - 8-IN X 6-IN REDUCER
- 3 - 6-IN MJ PLUG
- 8 - 8-IN MJ PLUG
- 2 - 6-IN MJ CAP
- 3 - 5-IN HYDRANT
- 2 - FLUSHING HYDRANT
- 160-FT - 2-IN STYROFOAM INSULATION
- COPPER SERVICE TUBING/COUPLINGS (AS REQUIRED)
- HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQUIRED)

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

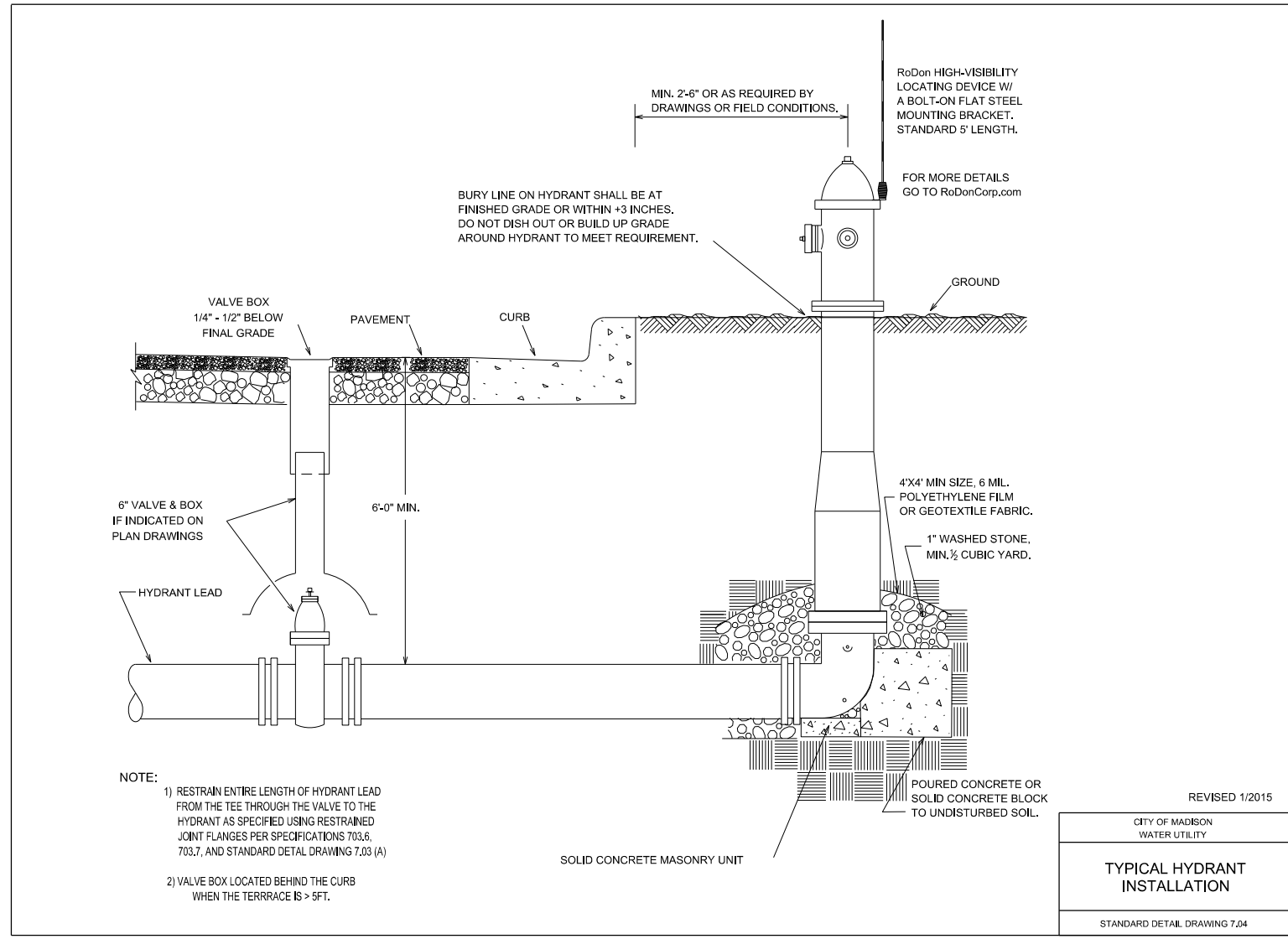
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 1 - 8-IN TAPPING VALVE
- 1 - 8-IN X 8-IN TAPPING SLEEVE

ESTIMATE OF MATERIALS SALVAGED:

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

- 6 - 8-IN MJ PLUG
- 2 - HYDRANT



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