

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED


APRIL 22, 2015

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

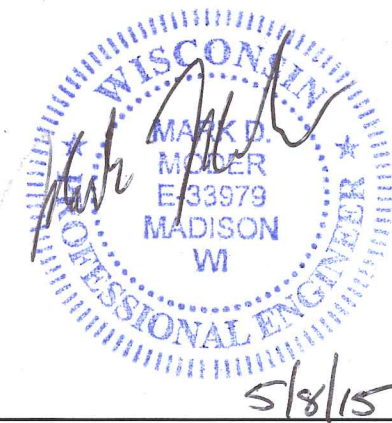
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:


City Engineer 5/8/15
Date

STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:



STORM SEWER
DESIGNED BY:



WATER MAIN
DESIGNED BY:



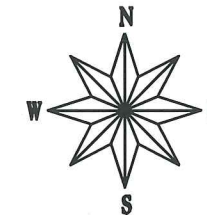
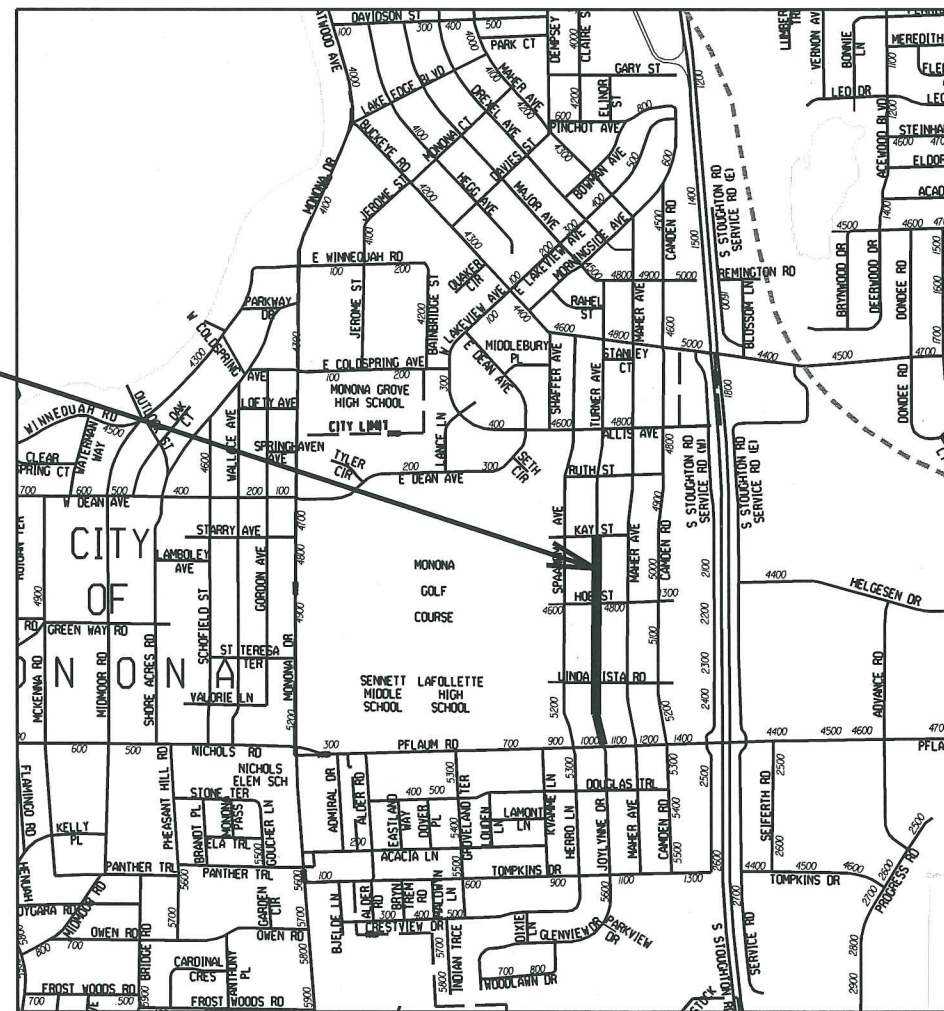
INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTIONS AND DETAILS
DI	EROSION CONTROL PLANS
EC1-EC5	STREET PLAN & PROFILES
PI-P5	UTILITY PLAN & PROFILES
U1-U5	SANITARY SEWER SCHEDULE
U6	STORM SEWER SCHEDULE
U7-U8	WATER PLAN & PROFILE
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TURNER AVENUE ASSESSMENT DISTRICT - 2015

CITY PROJECT NO. 53W1844 (MUNIS #10627)
CONTRACT NO. 7442

PROJECT
LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	□

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%

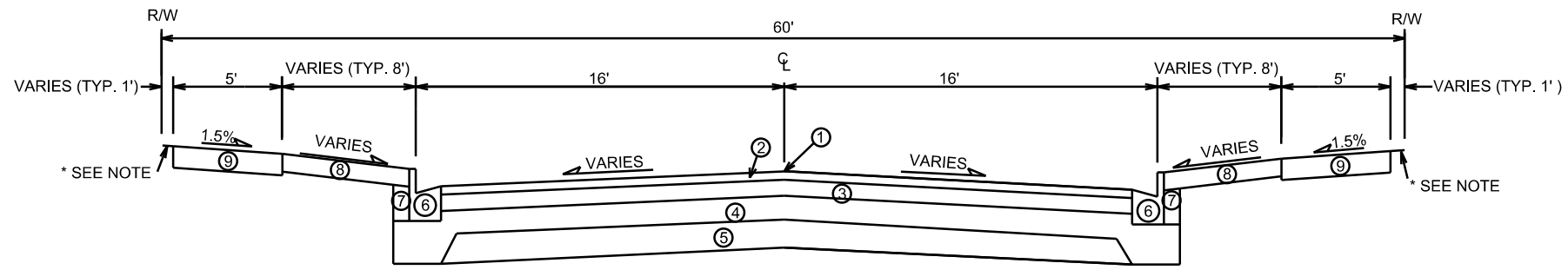
EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY).....3300 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....1250 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....4550 C.Y.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



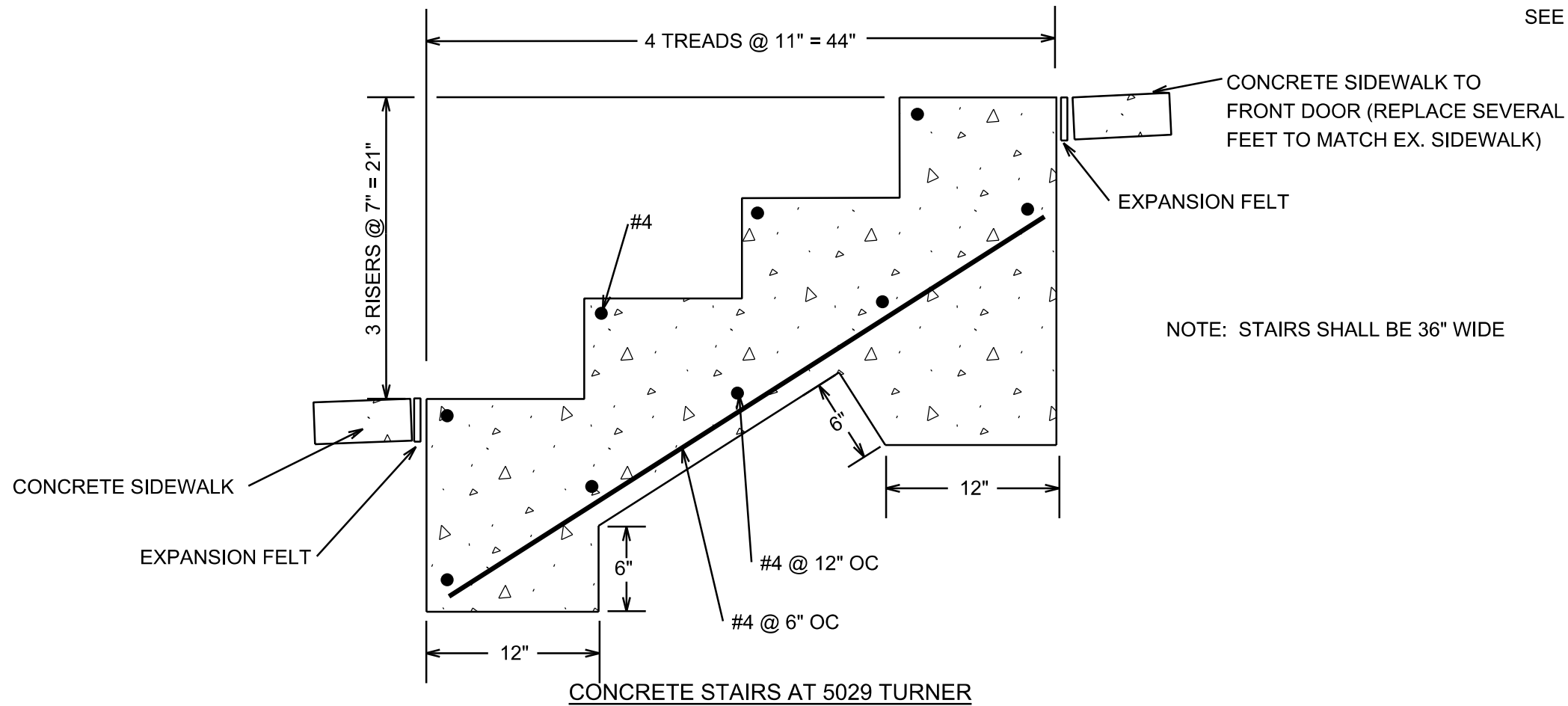
TYPICAL FINISHED SECTION
TURNER AVENUE

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

TYPICAL SECTIONS NOT TO SCALE

SEE CROSS SECTION SHEETS FOR CROSS
SLOPES, TOP OF CURB AND BACK OF WALK ELEVATIONS.

*WHERE SLOPES EXCEED 4:1, INSTALL RETAINING WALL.
SEE PLAN AND CROSS SECTIONS FOR LOCATIONS



CONCRETE STAIRS AT 5029 TURNER

NOTE: STAIRS SHALL BE 36" WIDE

PLOT SCALE: _____

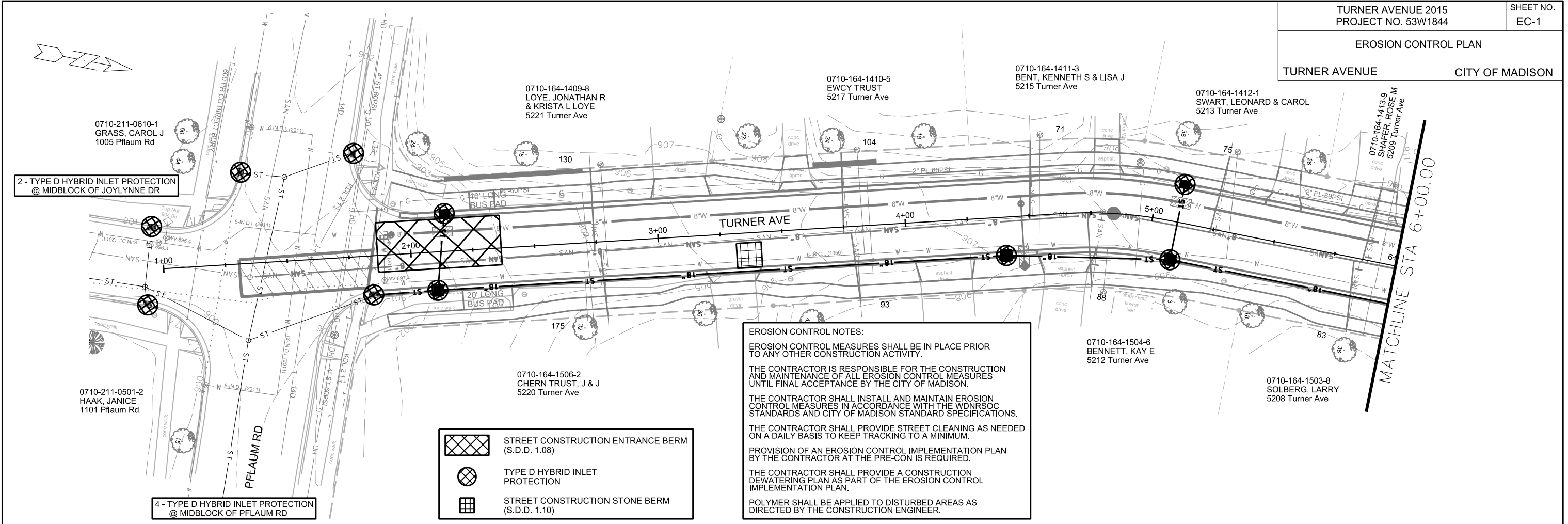
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EROSION CONTROL PLAN

TURNER AVENUE CITY OF MADISON

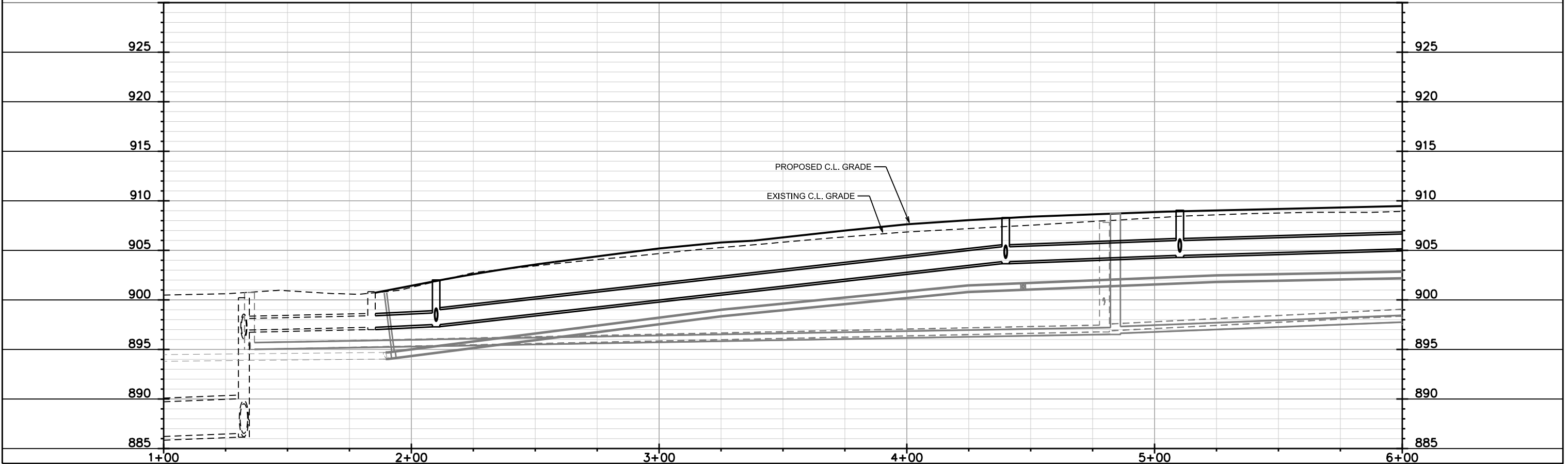


2 - TYPE D HYBRID INLET PROTECTION
@ MIDBLOCK OF JOYLYNNE DR

4 - TYPE D HYBRID INLET PROTECTION
@ MIDBLOCK OF PFLAUM RD

-  STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
-  TYPE D HYBRID INLET PROTECTION
-  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.
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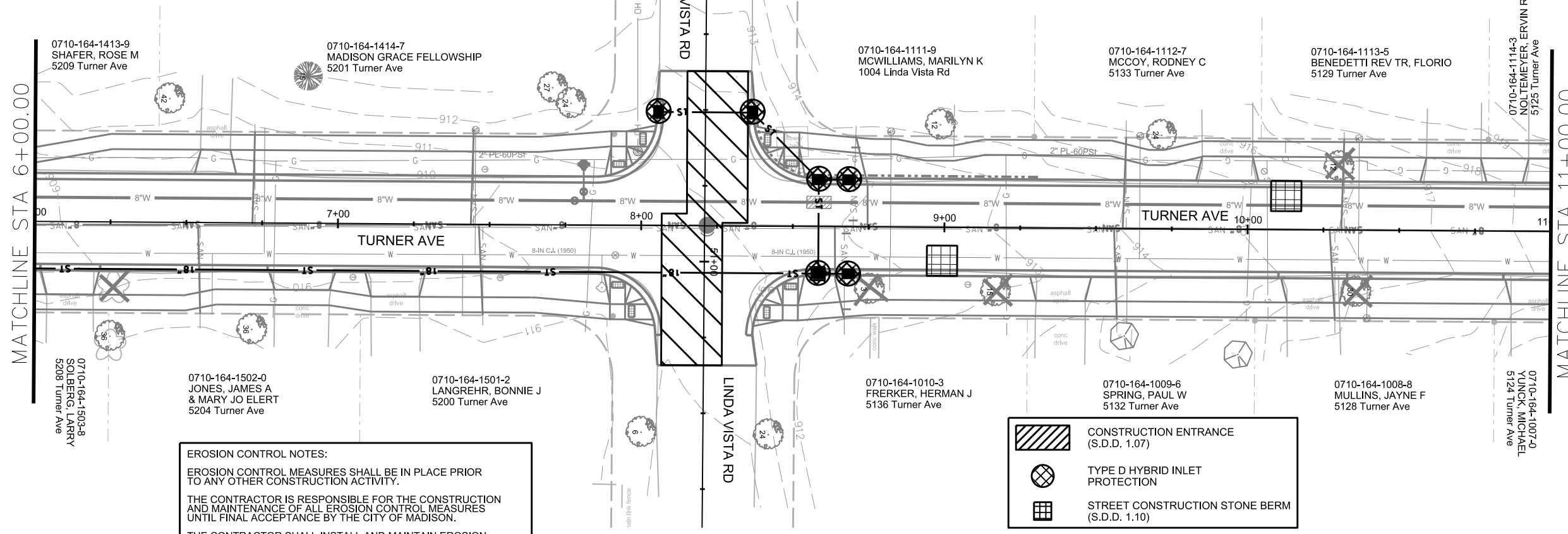
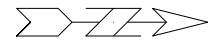
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EROSION CONTROL PLAN

TURNER AVENUE

CITY OF MADISON



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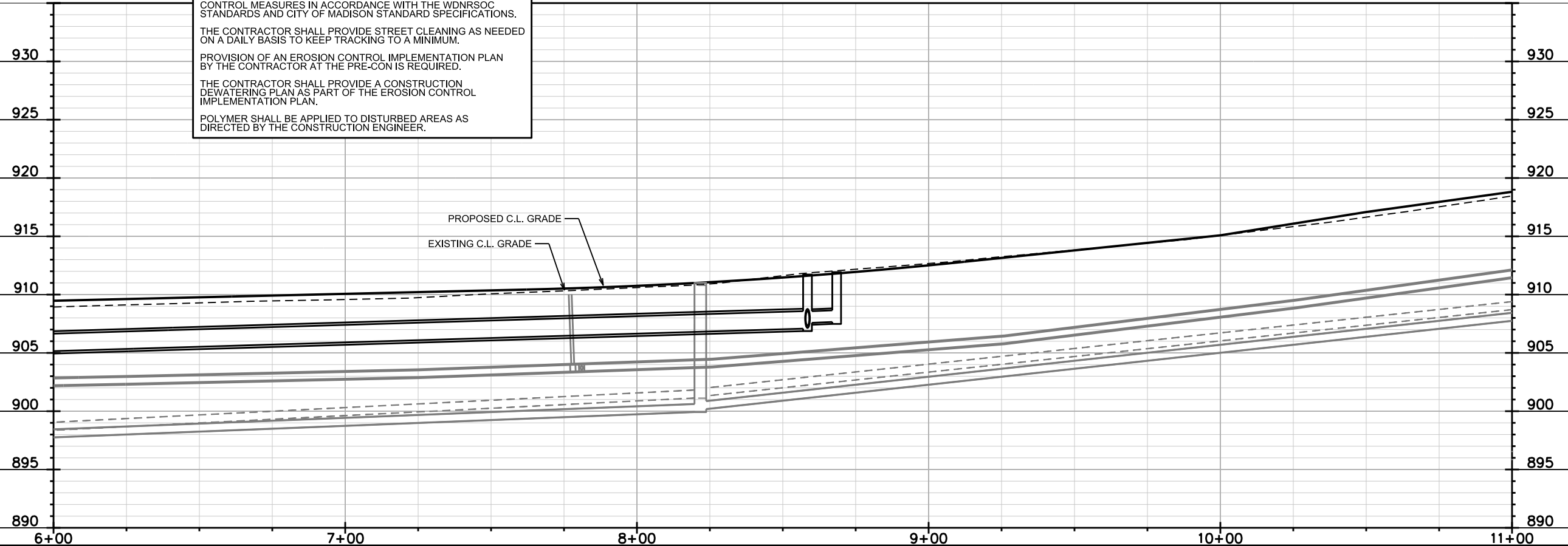
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	STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)



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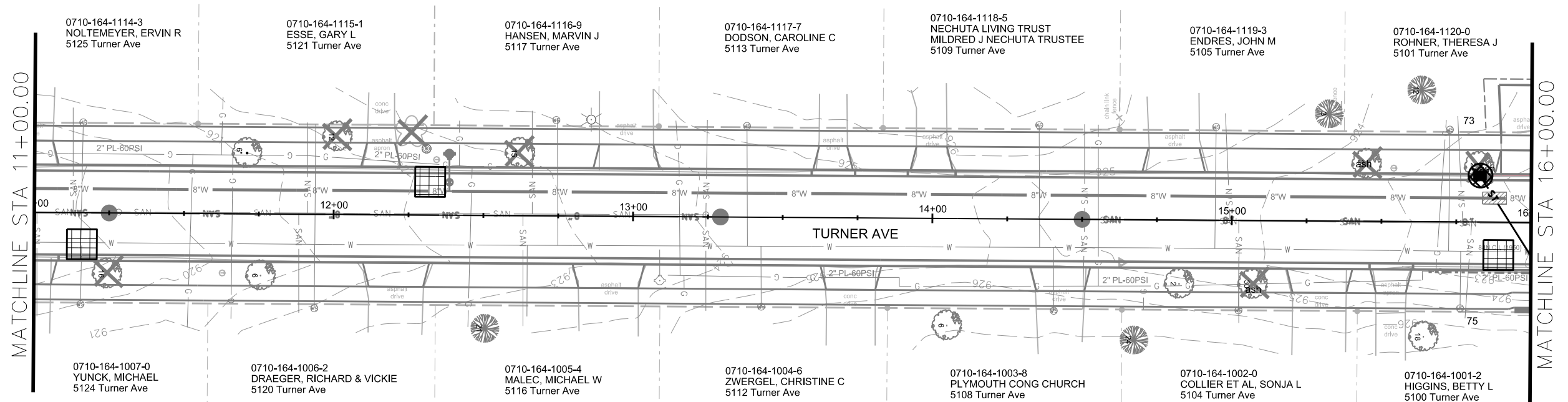
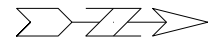
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EROSION CONTROL PLAN

TURNER AVENUE

CITY OF MADISON



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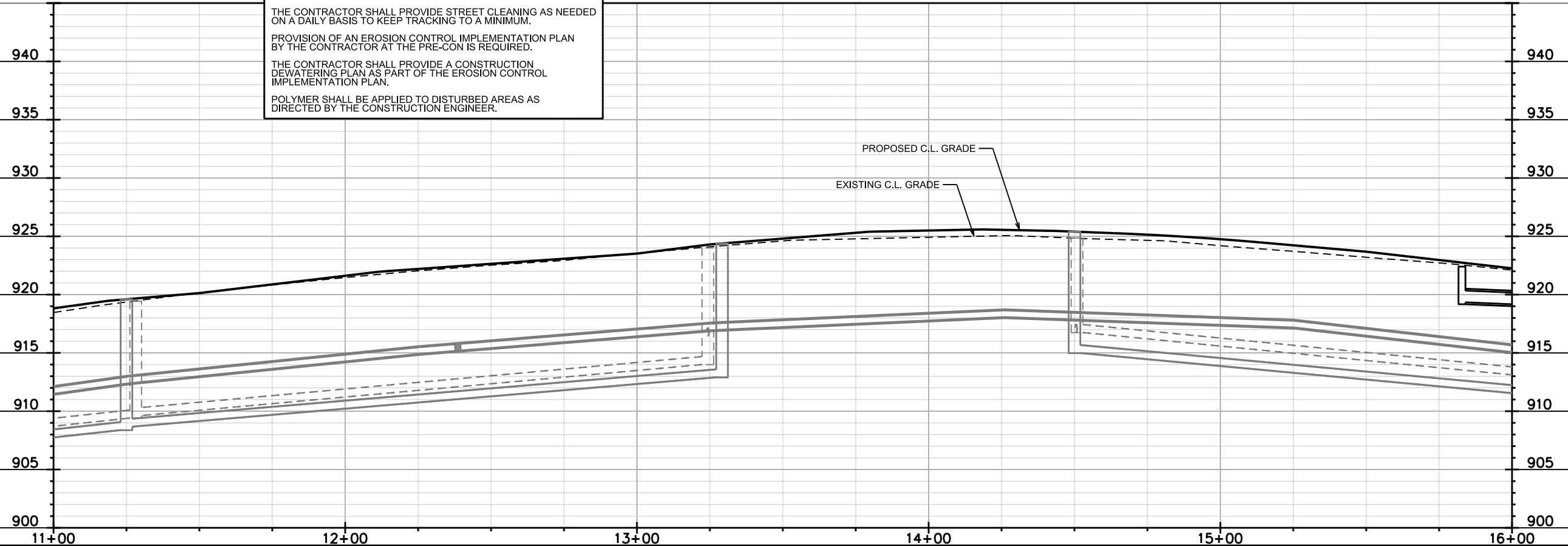
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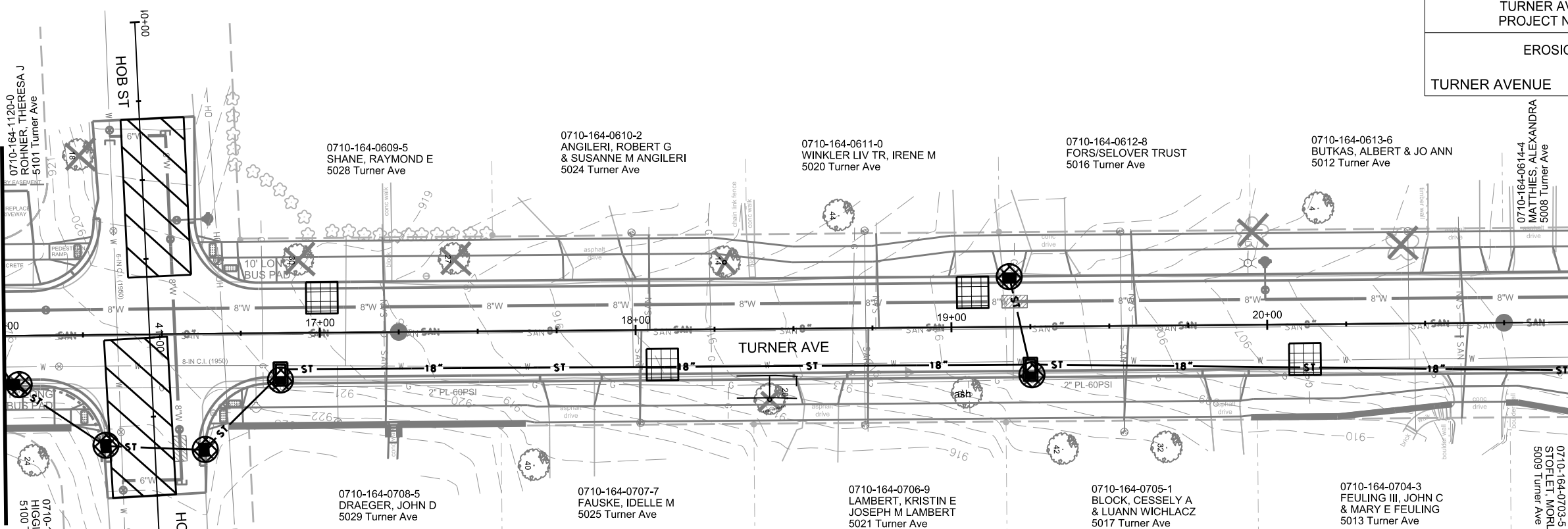
EROSION CONTROL PLAN

TURNER AVENUE

CITY OF MADISON

MATCHLINE STA 16+00.00

MATCHLINE STA 21+00.00



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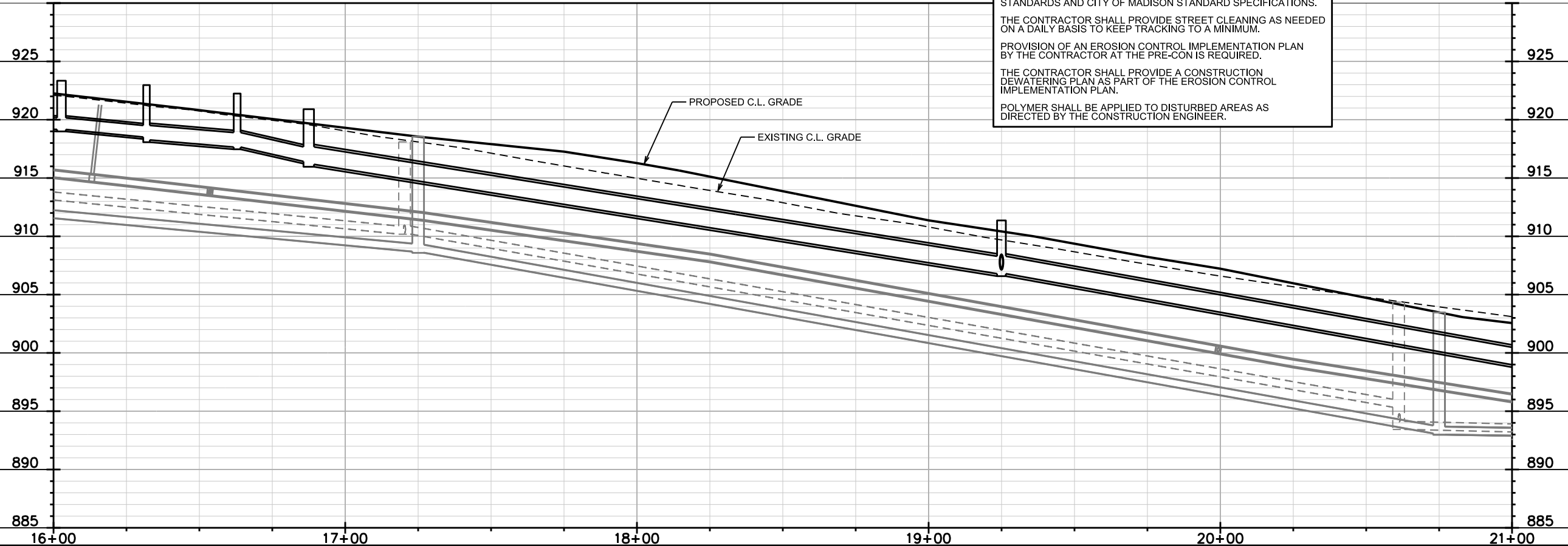
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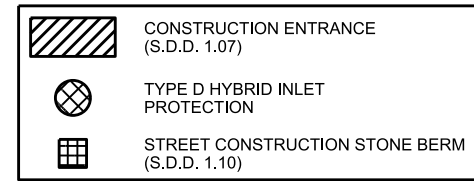
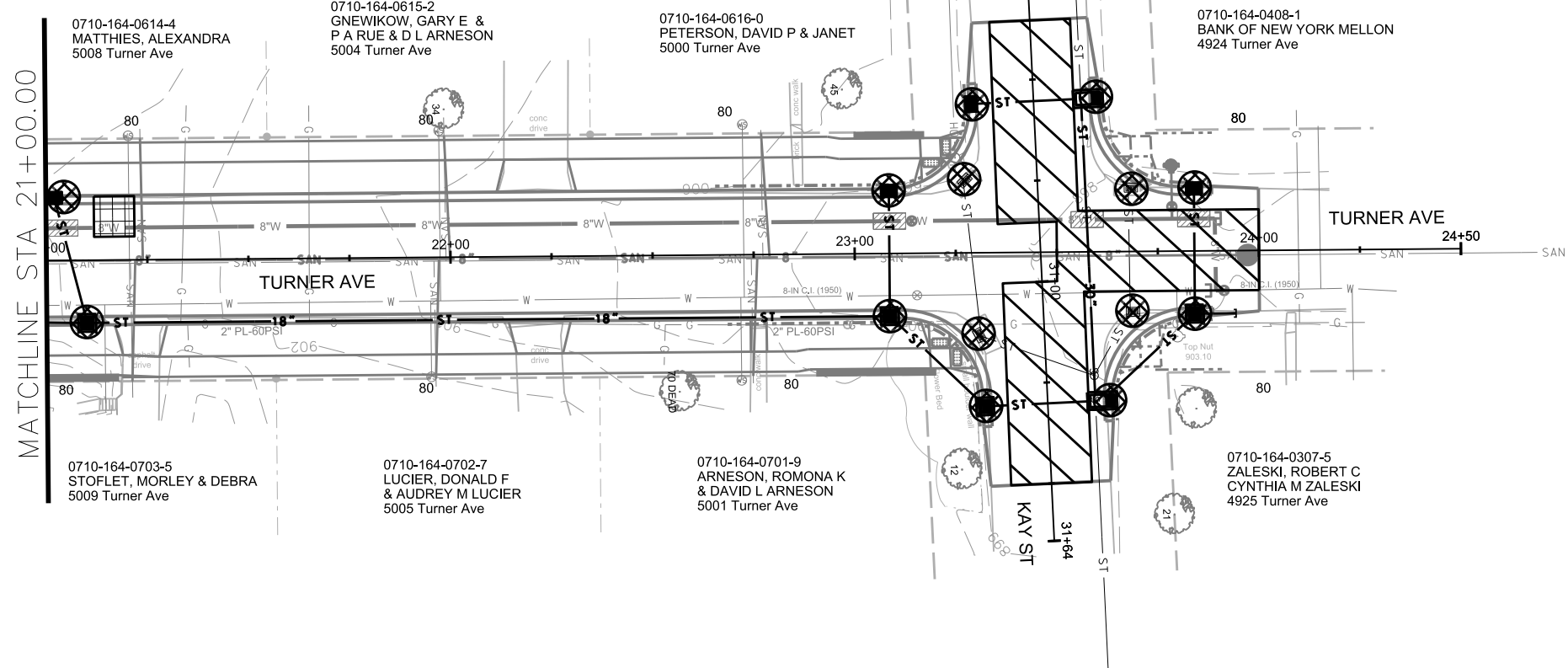
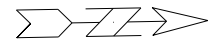


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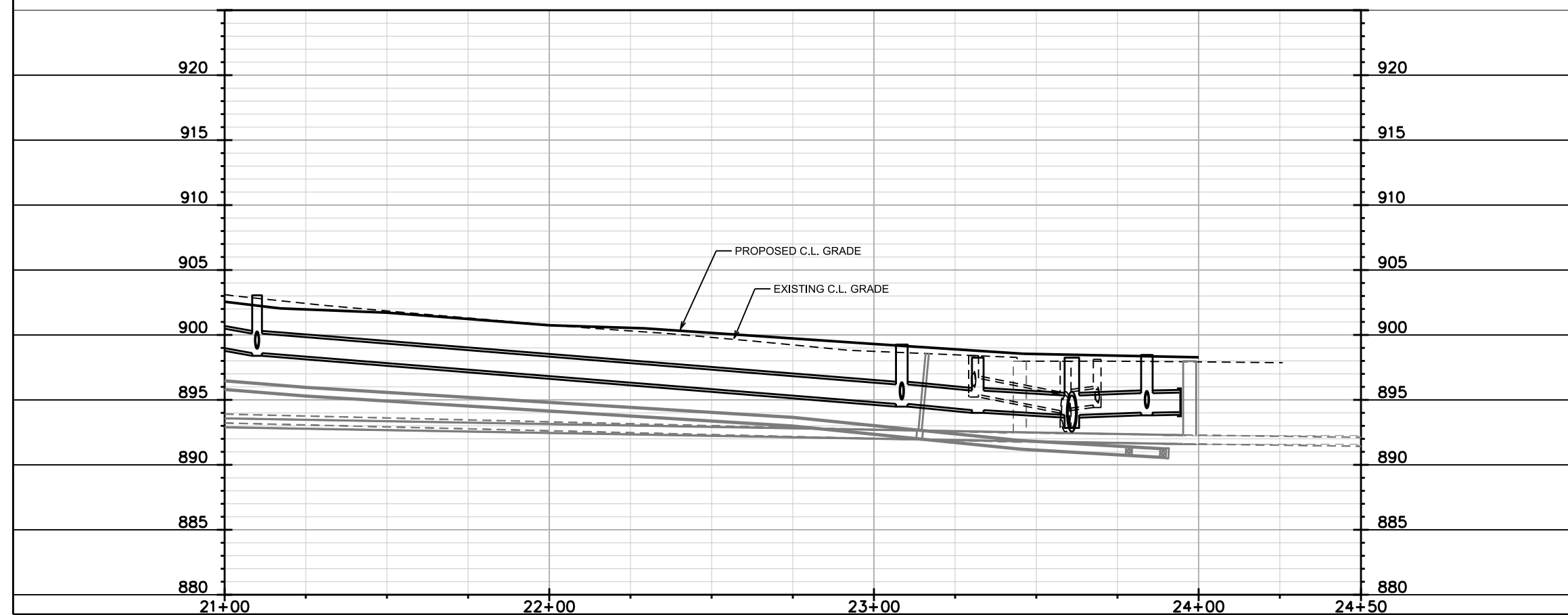
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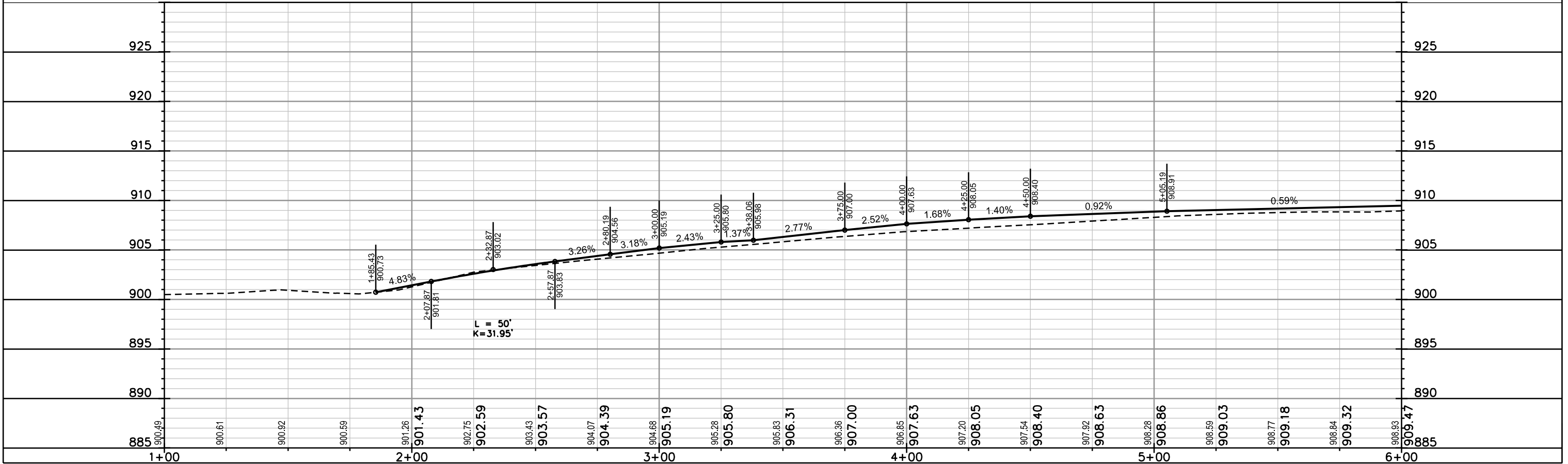
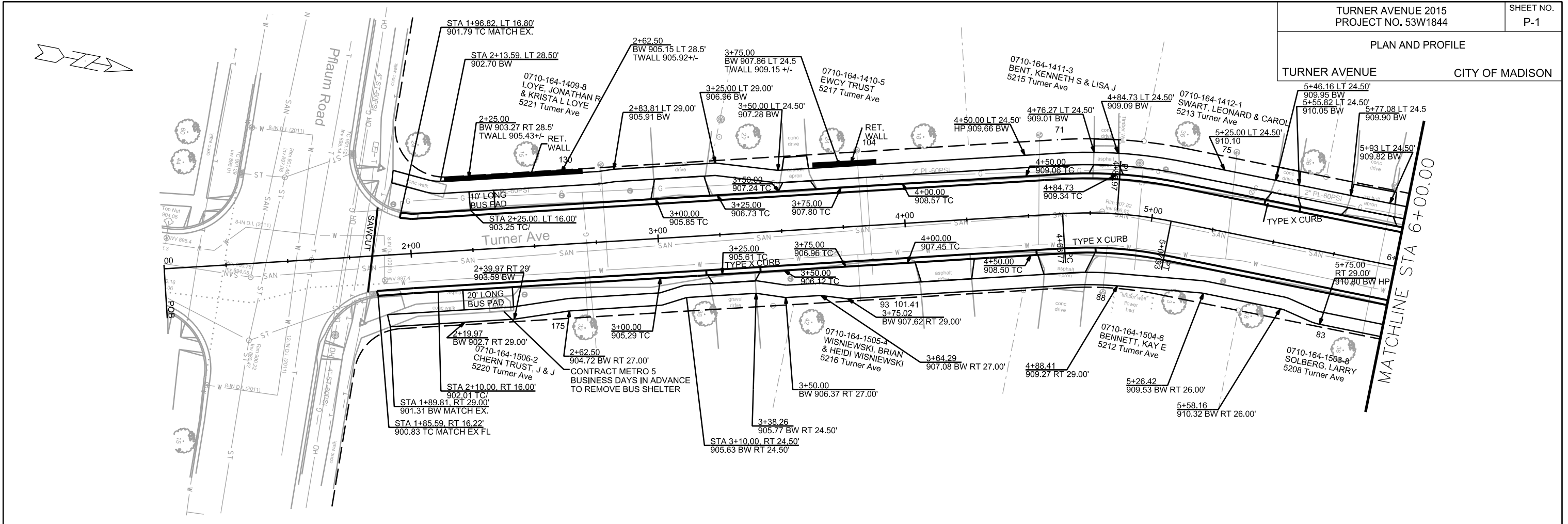
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PLAN AND PROFILE

TURNER AVENUE CITY OF MADISON

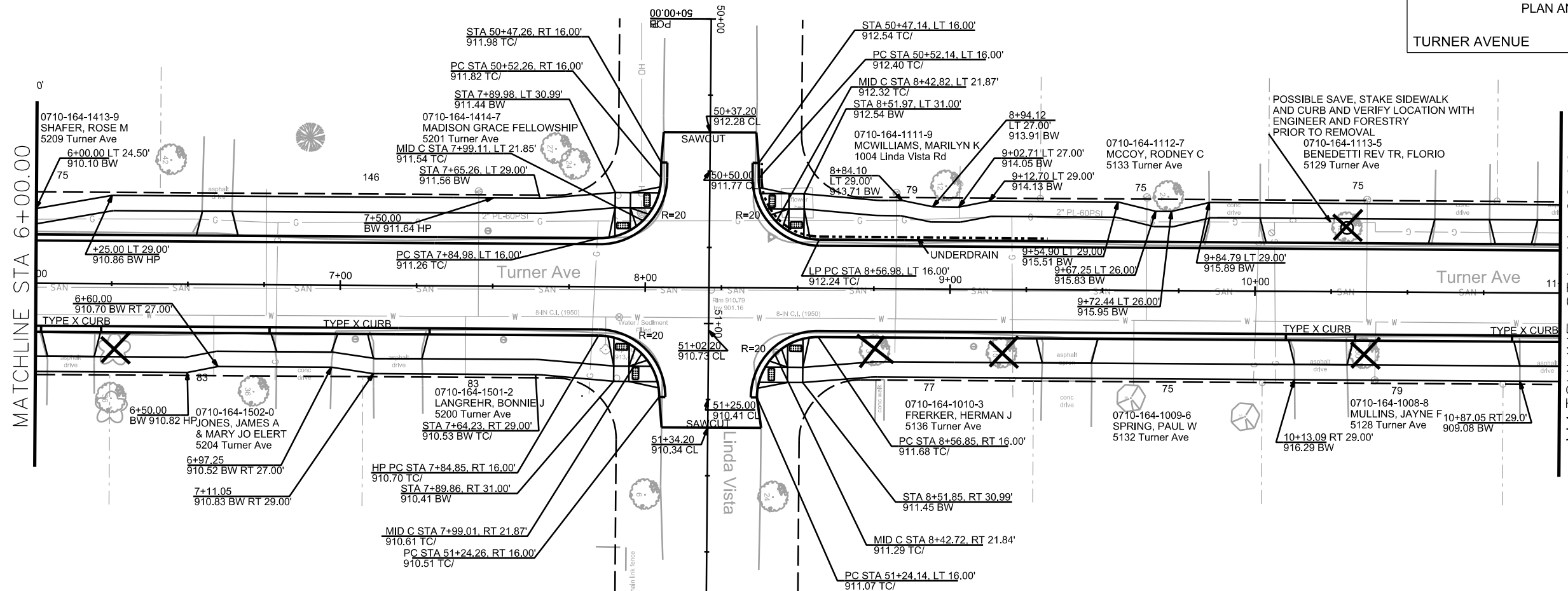


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PLAN AND PROFILE
TURNER AVENUE CITY OF MADISON



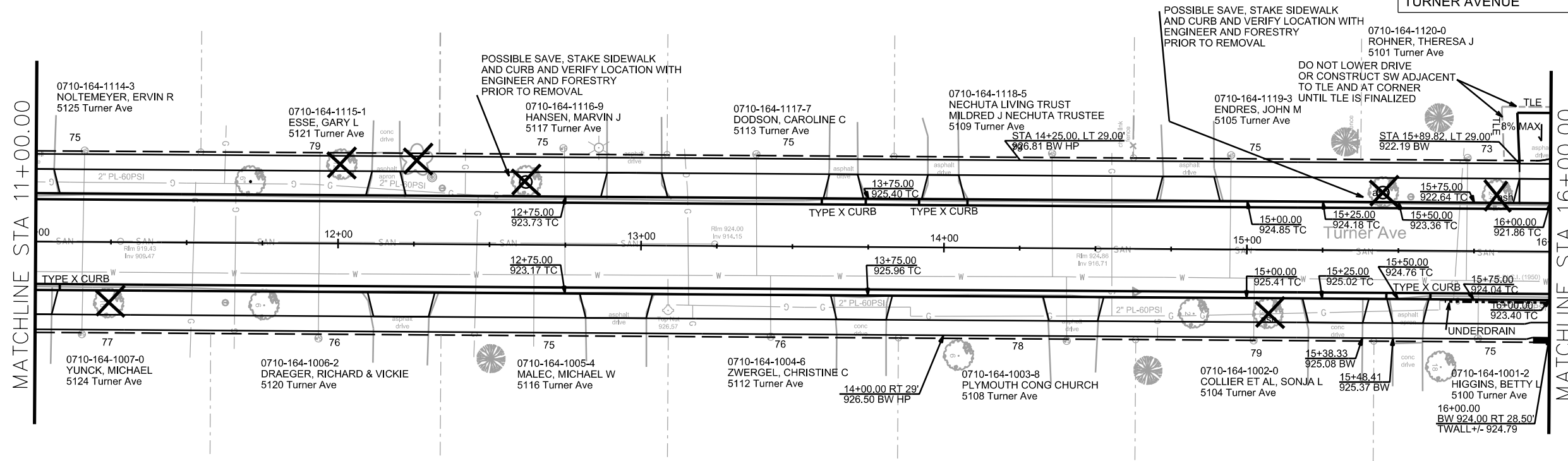
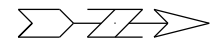
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PLAN AND PROFILE

TURNER AVENUE CITY OF MADISON



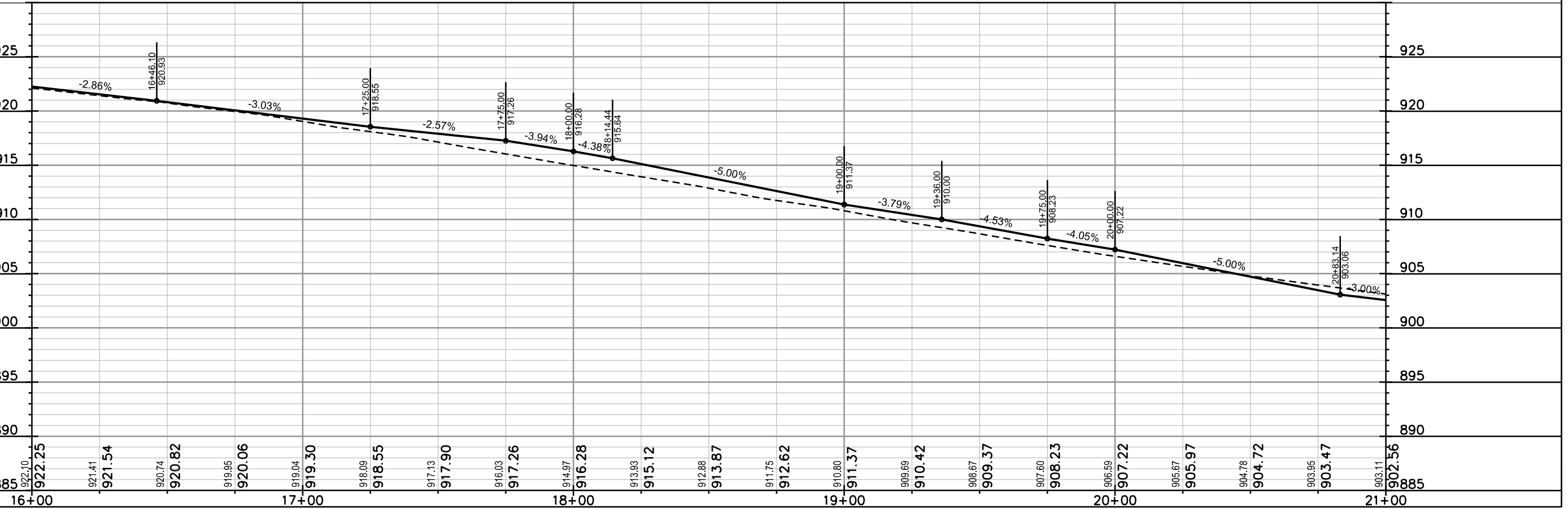
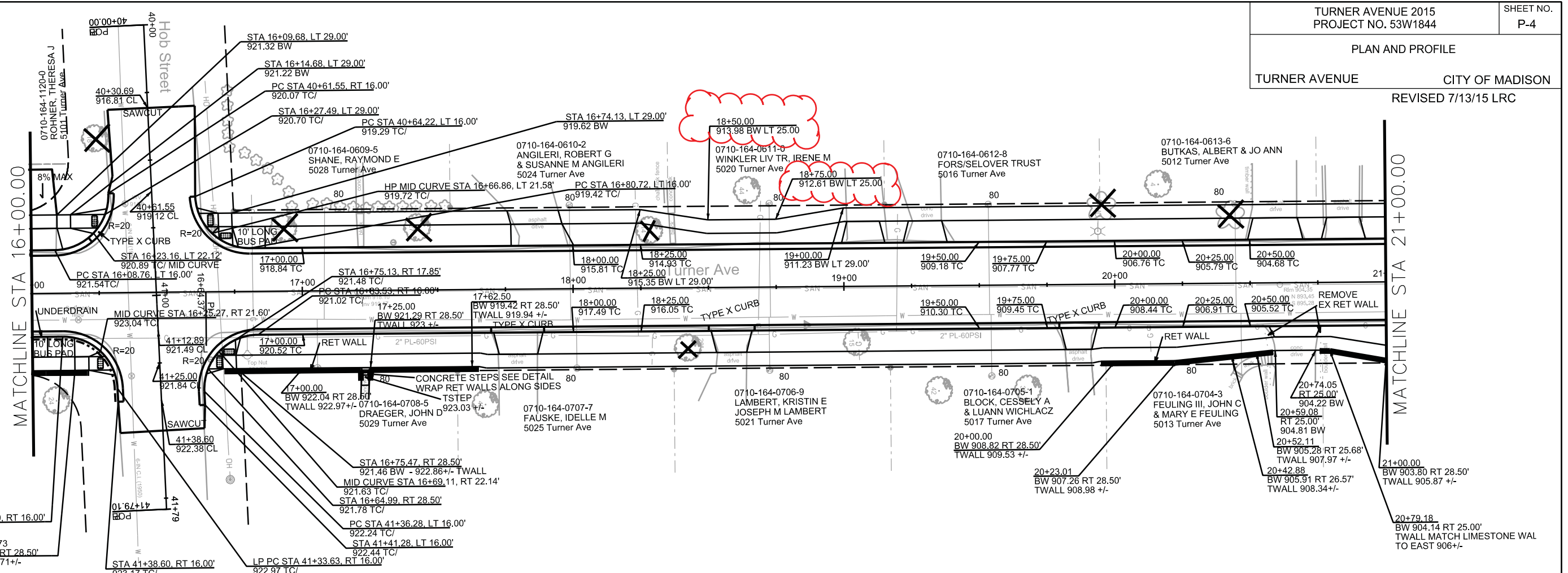
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MATCHLINE STA 16+00.00

MATCHLINE STA 21+00.00



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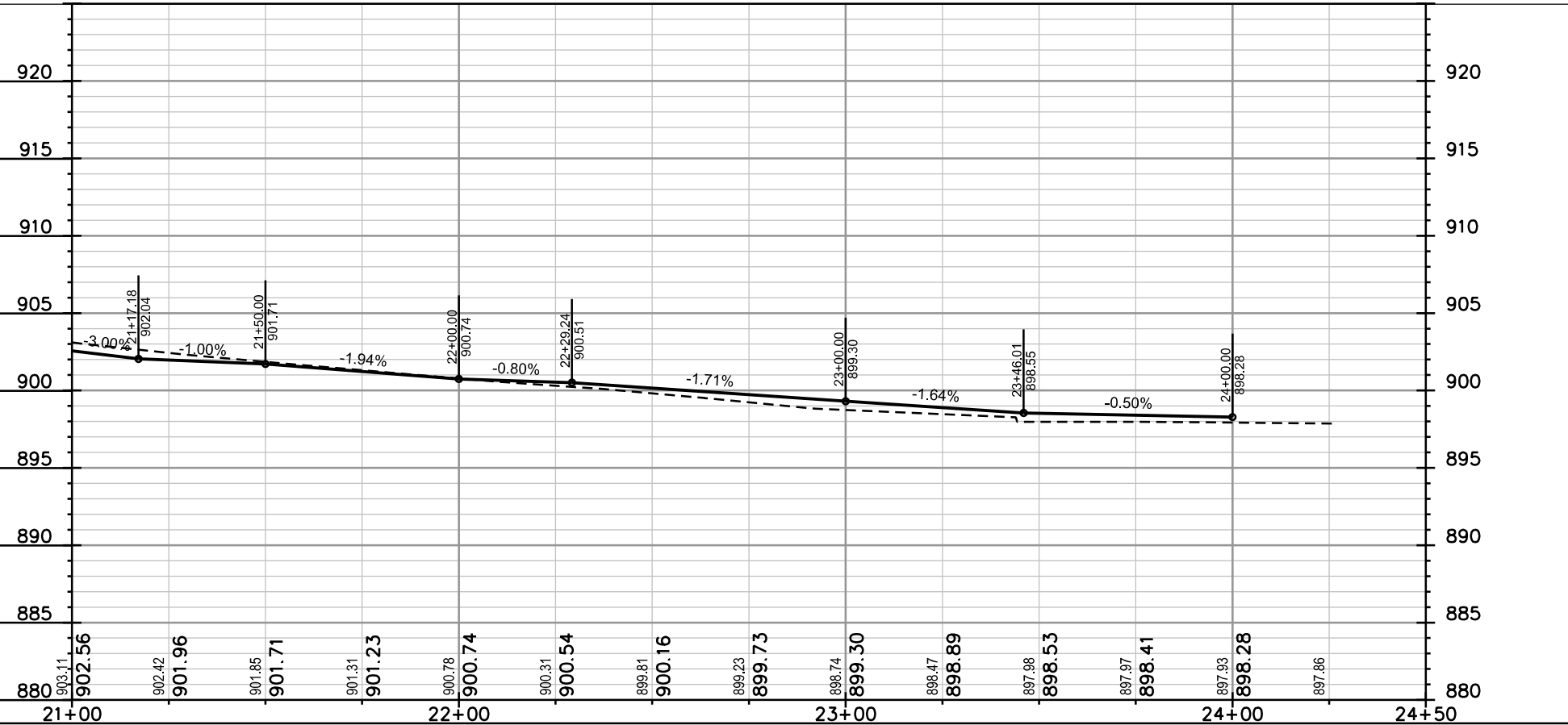
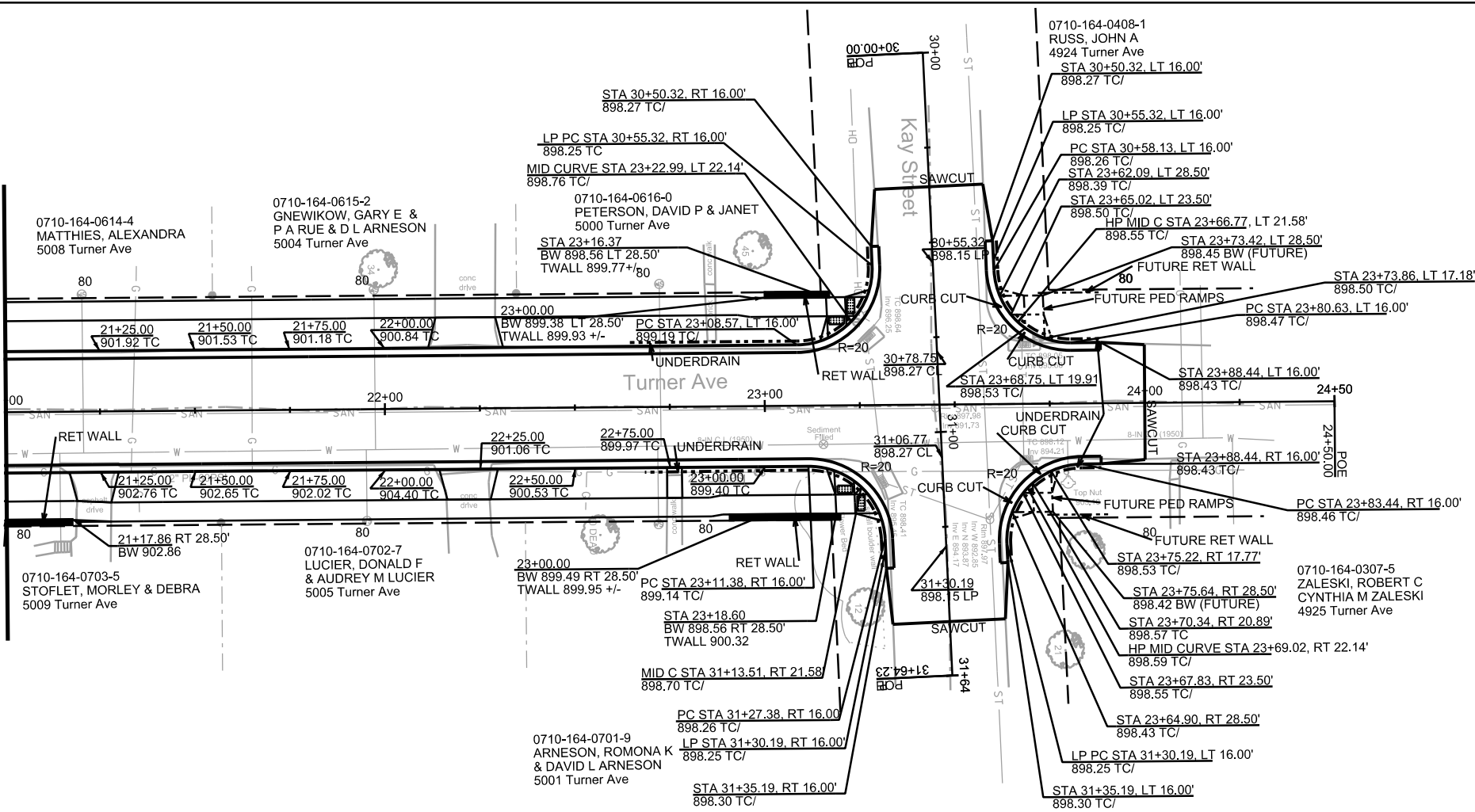
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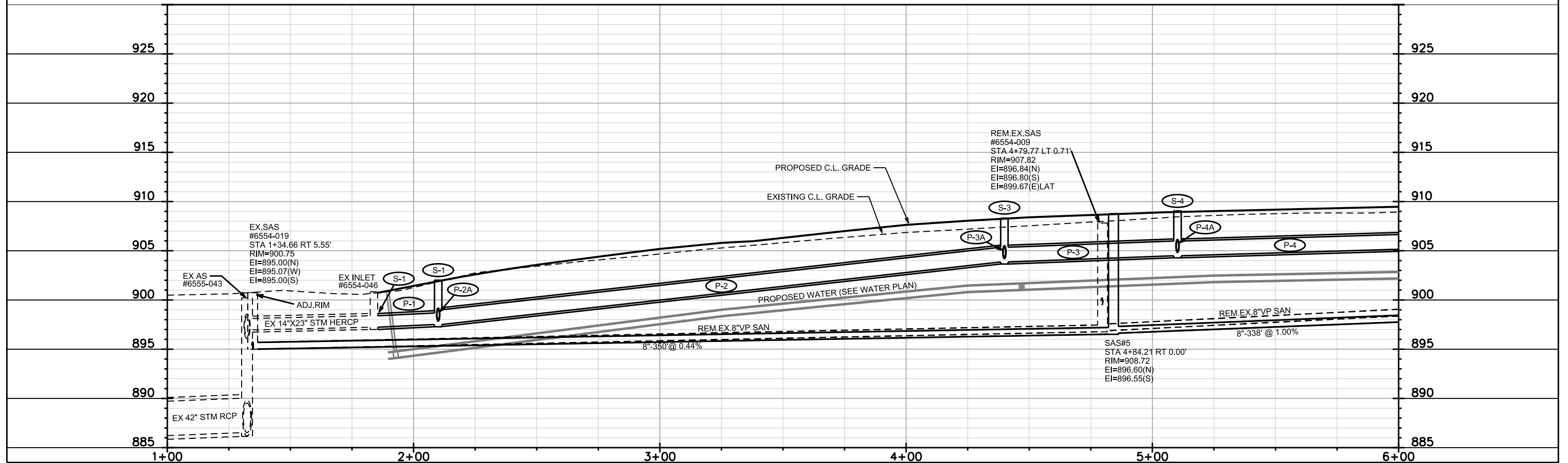
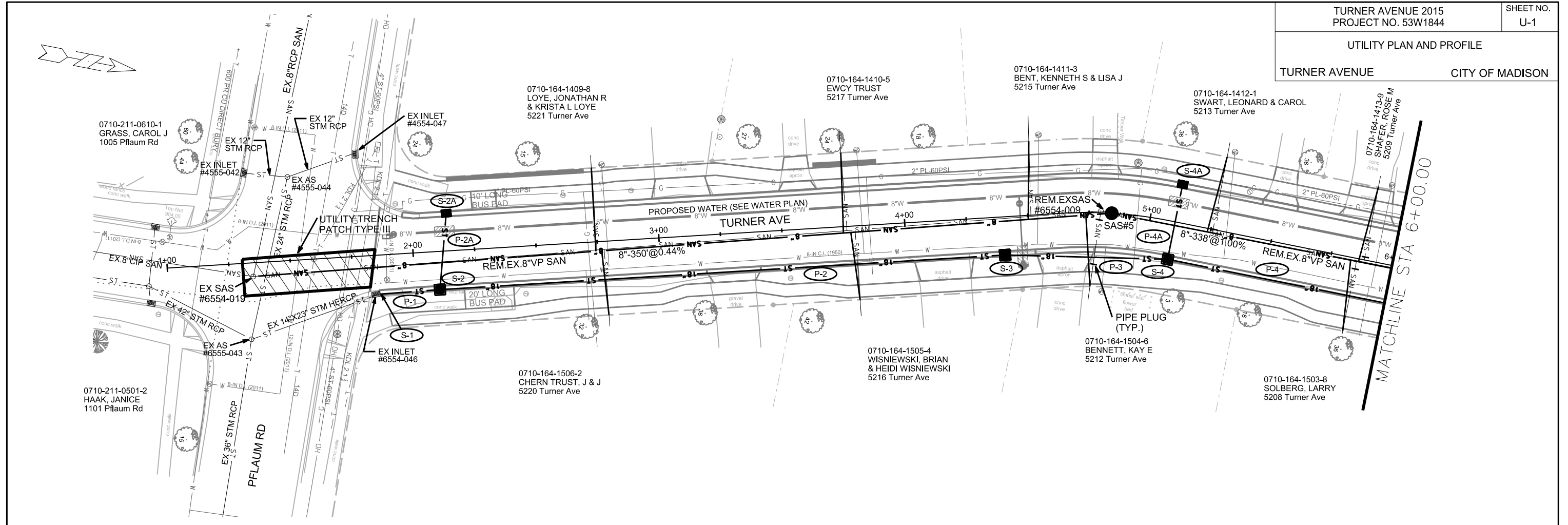


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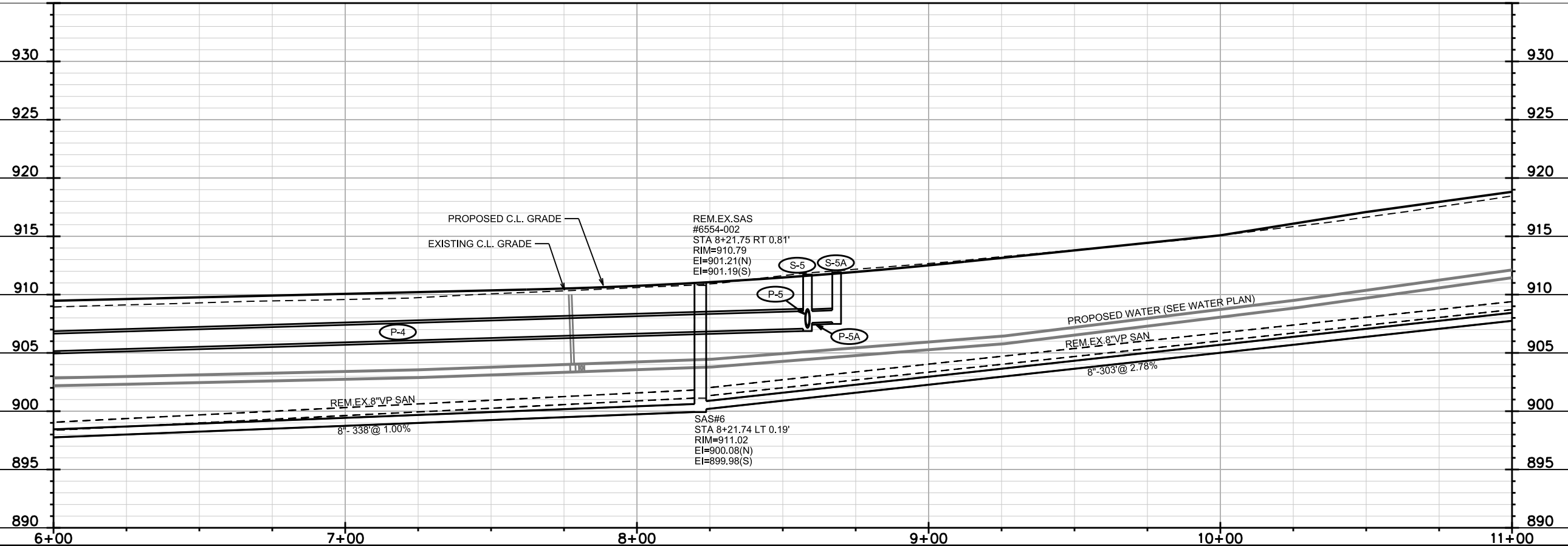
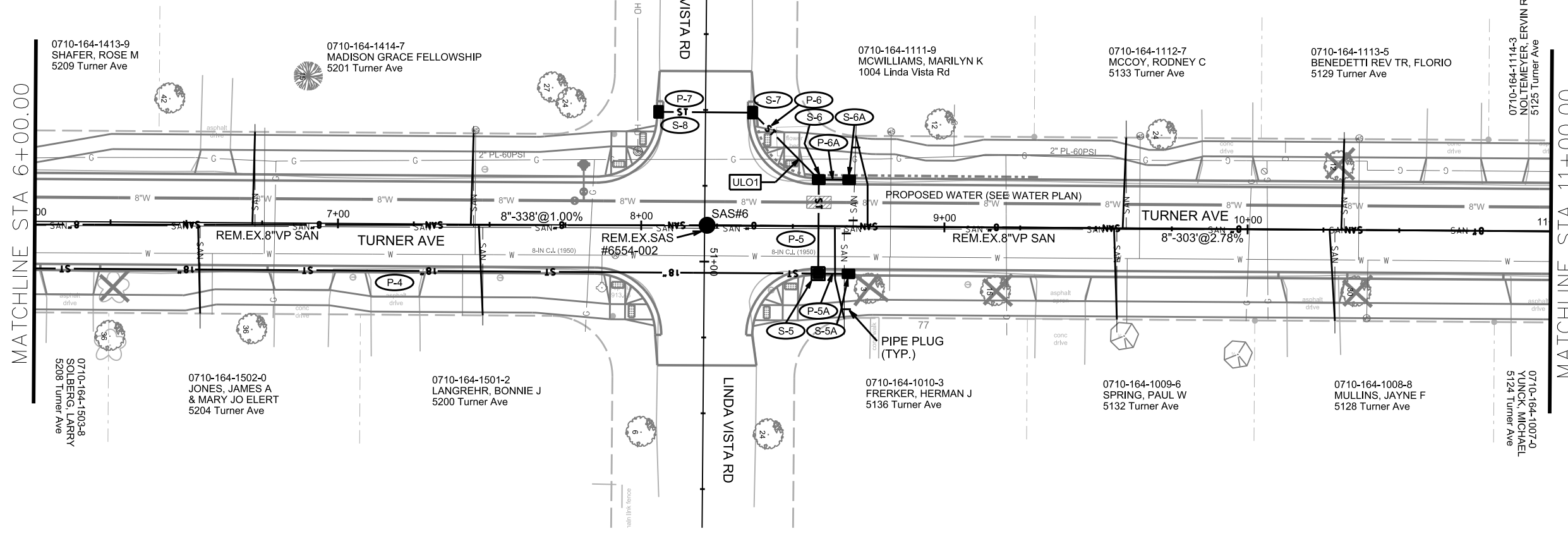
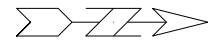
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UTILITY PLAN AND PROFILE
TURNER AVENUE CITY OF MADISON

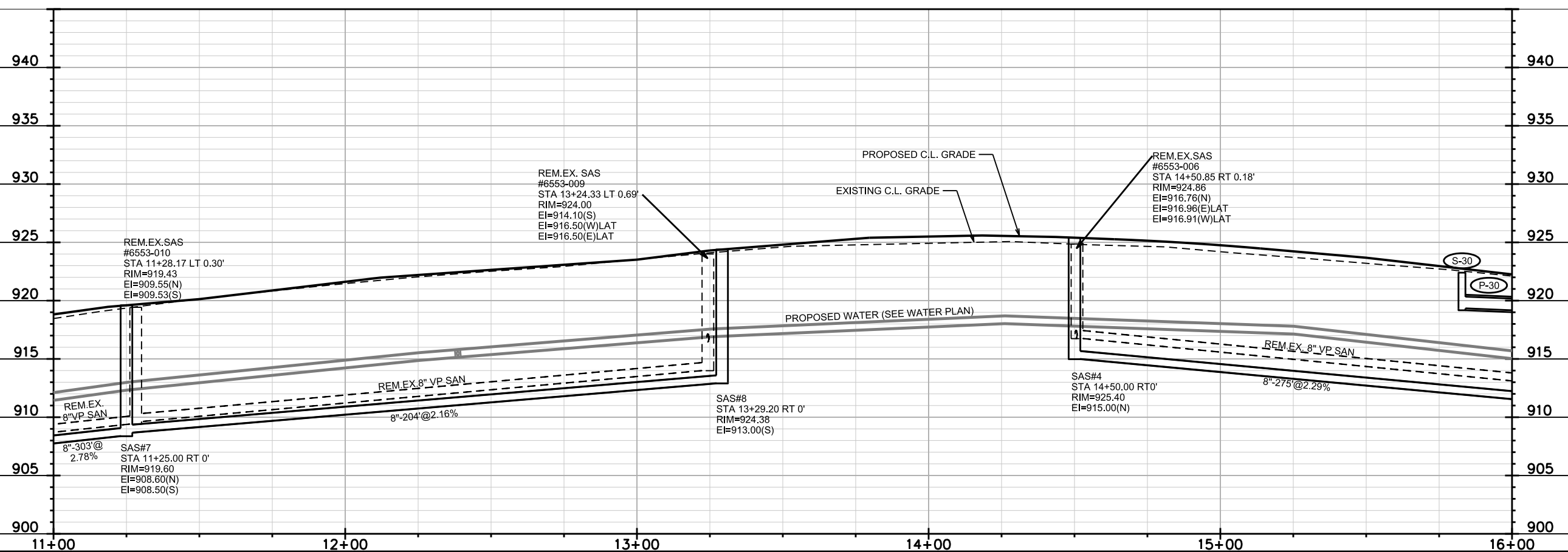
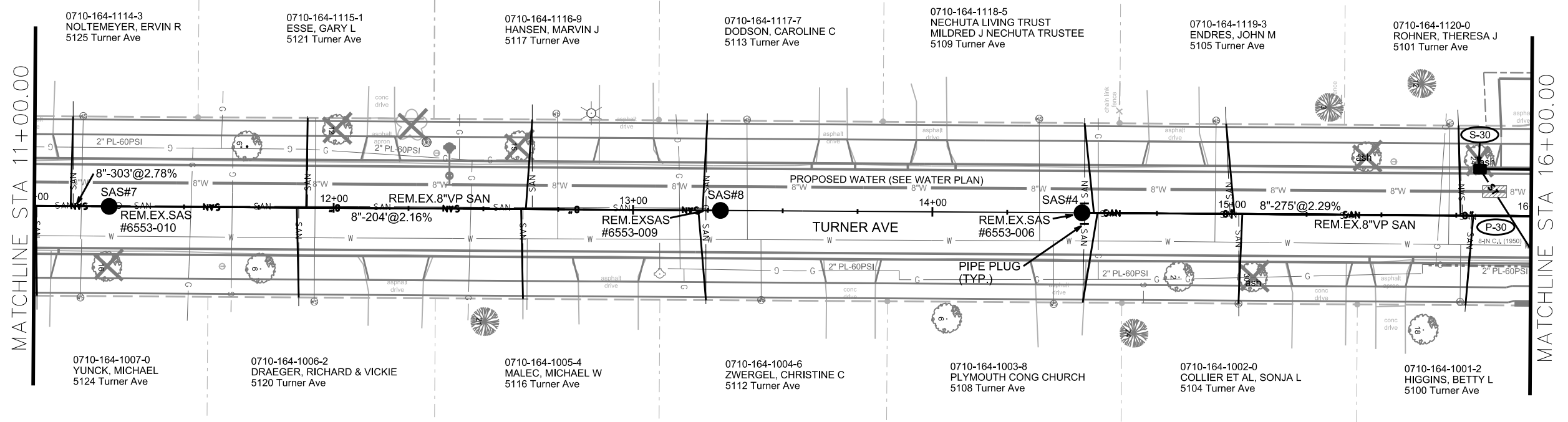
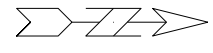


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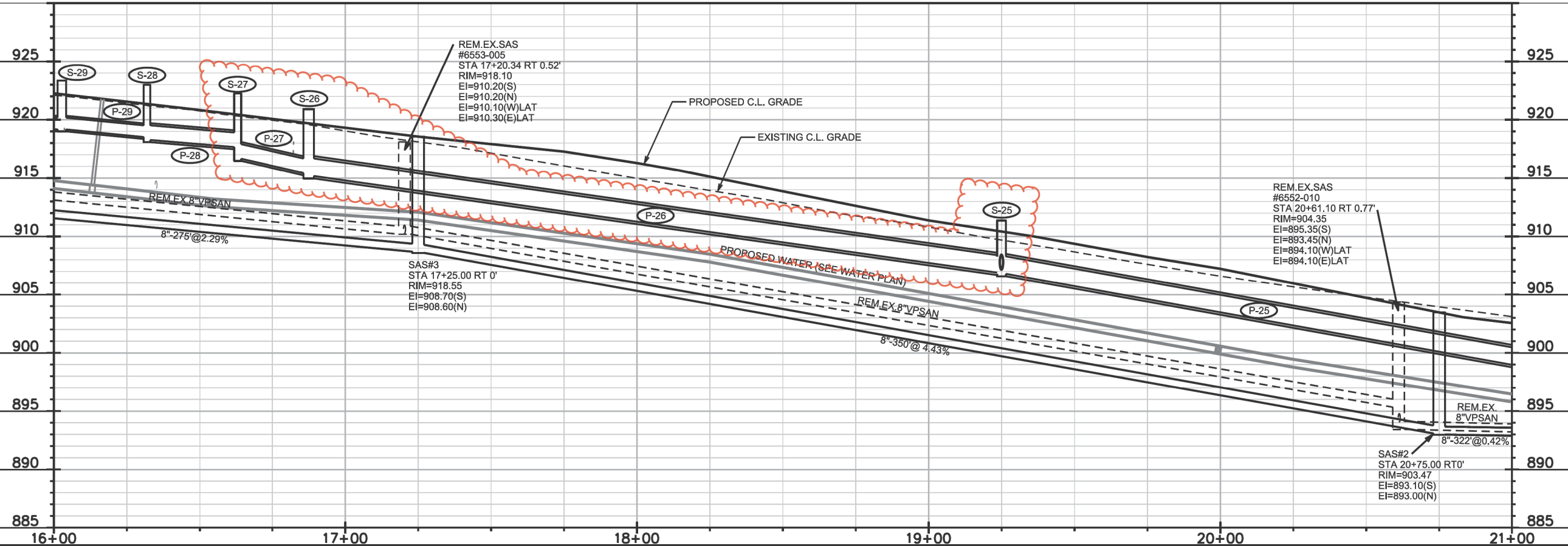
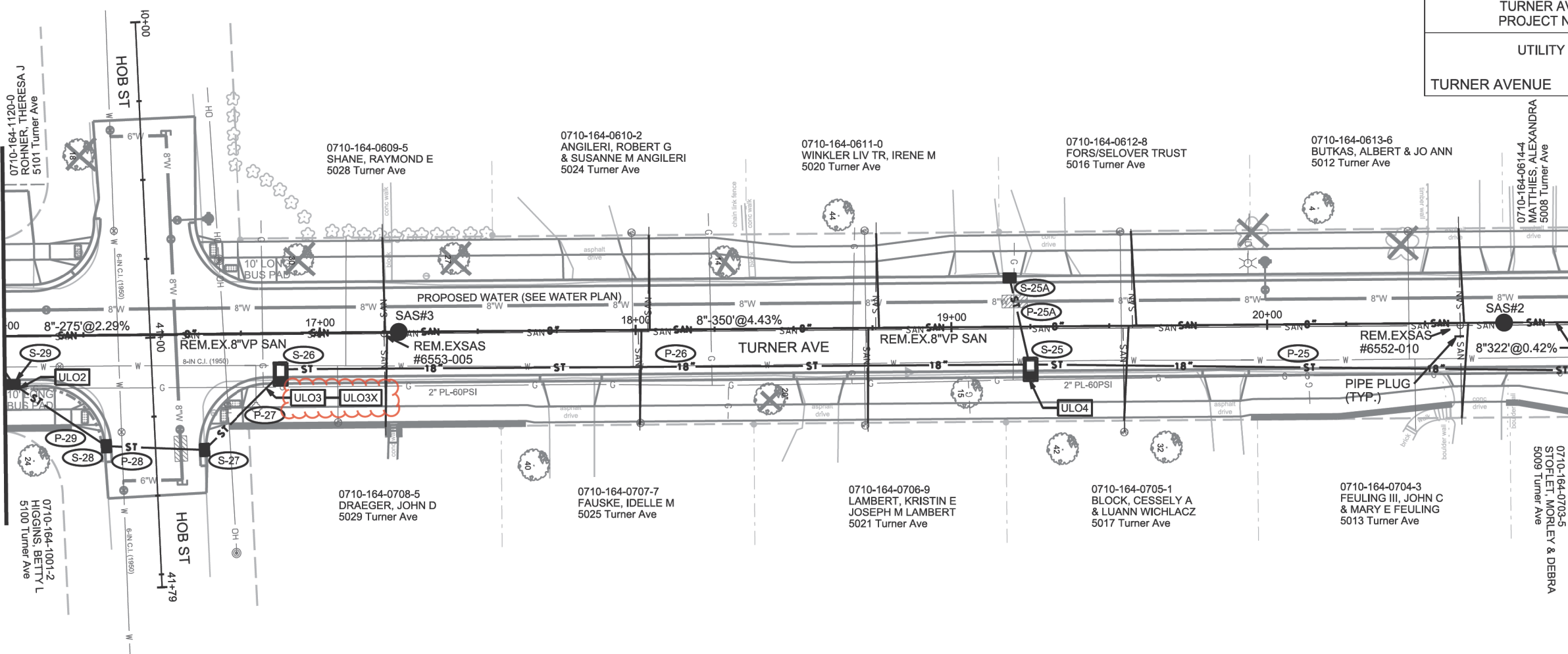
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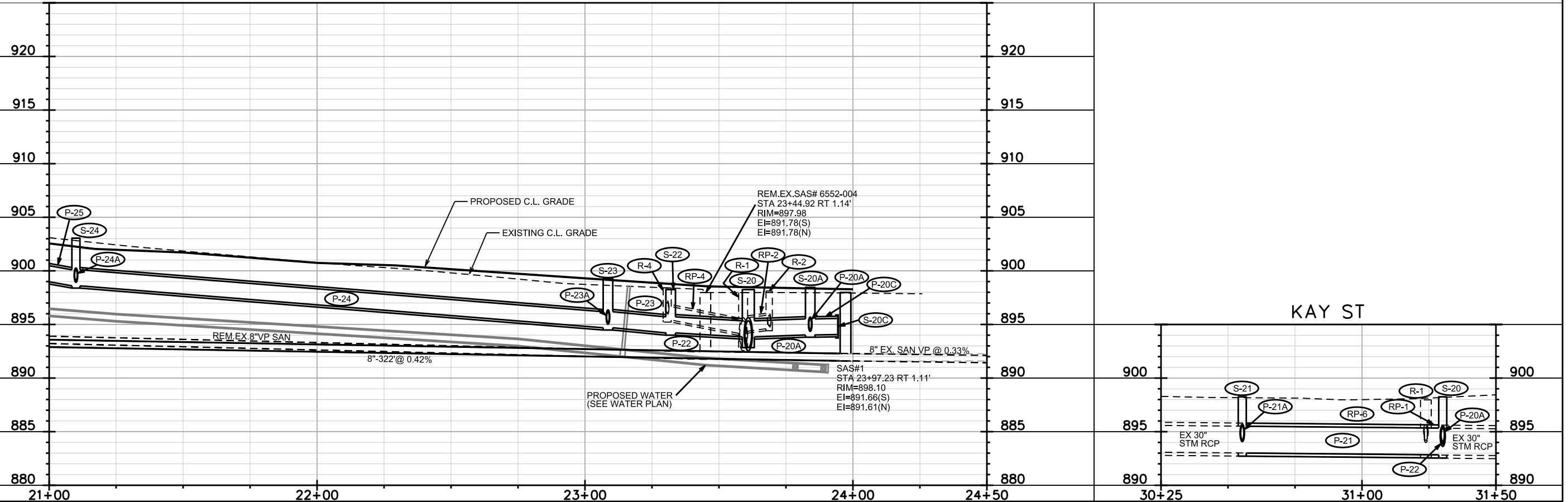
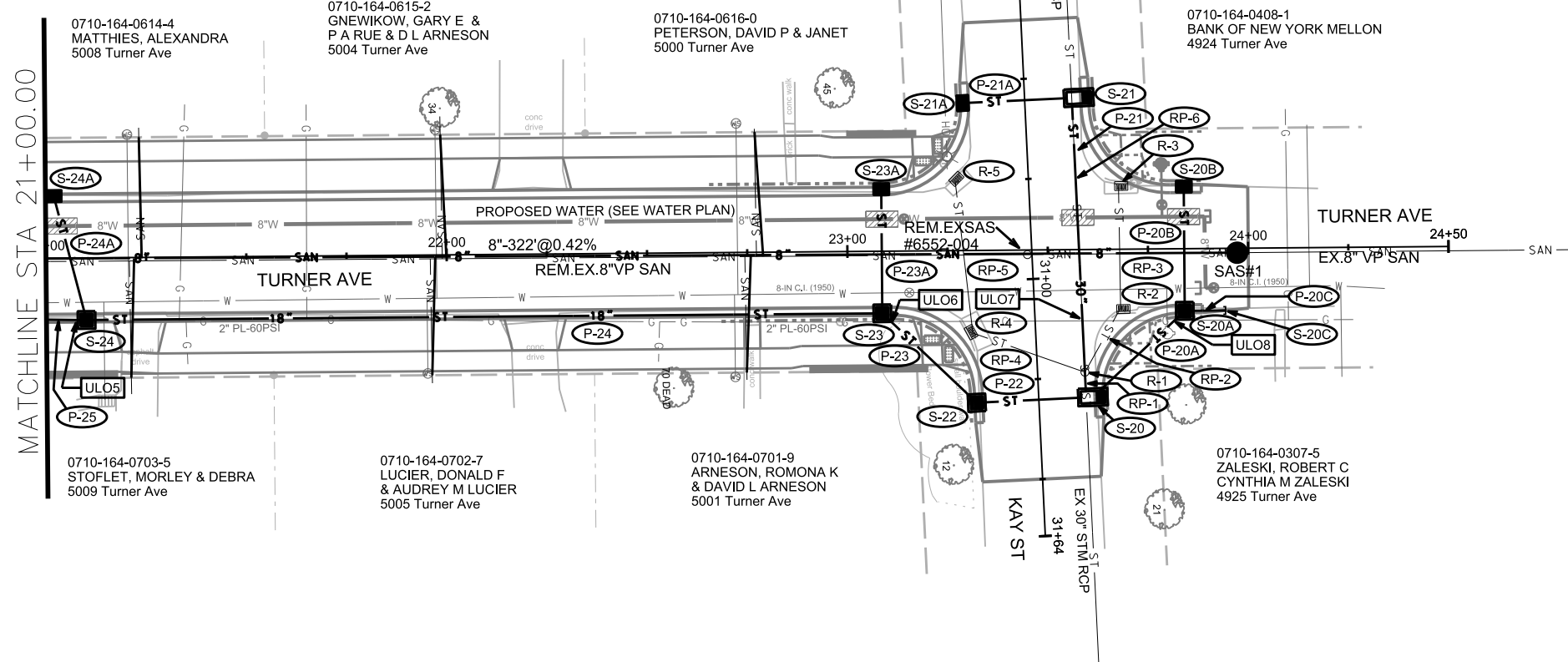
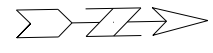
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SANITARY SCHEDULE

TURNER AVE. 2015
PROJECT NO. 53W1844

SHEET NO.
U-6

SANITARY SEWER SCHEDULE

TURNER AVENUE CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
TURNER AVE.						
SAS#1	23+97.23	RT-1.11	898.10	891.61	6.49	
SAS#2	20+75.00	RT-0'	903.47	893	10.47	
SAS#3	17+25.00	RT-0'	918.55	908.6	9.95	
SAS#4	14+50.00	RT-0'	925.40	915	10.40	
SAS#5	4+84.21	RT-0'	908.72	896.55	12.17	
SAS#6	8+21.74	LT-.19	911.02	899.98	11.04	
SAS#7	11+25.00	RT-0'	919.60	908.5	11.10	
SAS#8	13+29.20	RT-0'	924.38	913	11.38	

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PIPE TYPE
TURNER AVE.							
SAS#1	SAS#2	891.66	893.00	322	0.42%	8"	SDR-35 PVC
SAS#2	SAS#3	893.10	908.60	350	4.43%	8"	SDR-35 PVC
SAS#3	SAS#4	908.70	915.00	275	2.29%	8"	SDR-35 PVC
6554-019	SAS#5	895.00	896.55	350	0.44%	8"	SDR-35 PVC
SAS#5	SAS#6	896.60	899.98	338	1.00%	8"	SDR-35 PVC
SAS#6	SAS#7	900.08	908.50	303	2.78%	8"	SDR-35 PVC
SAS#7	SAS#8	908.6	913.00	204	2.16%	8"	SDR-35 PVC

REMOVE SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	EX. RIM (FT)	EI	DEPTH	NOTES
TURNER AVE.						
6552-004	23+44.92	RT-1.14	897.98	891.78	6.20	
6552-010	20+61.10	RT-.77	904.35	893.45	10.90	
6553-005	17+20.34	RT-.52	918.10	910.20	7.90	
6553-006	14+50.85	RT-.18	924.86	916.76	8.10	
6553-009	13+24.33	LT-.69	924.00	914.10	9.90	
6553-010	11+28.17	LT-.30	919.43	909.53	9.90	
6554-002	8+21.75	RT-.81	910.79	901.19	9.60	
6554-009	4+79.77	LT-.71	907.82	896.80	11.02	

SANITARY PIPES REMOVAL AND ABANDONMENTS

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	OVERALL LENGTH (FT)	PAY LENGTH (FT)	SIZE (DIA) INCH	PIPE TYPE	PAYABLE (Yes/No)	NOTES
TURNER AVE.							
6554-019	6553-009	345	0	8"	VP	No	(1)
6553-009	6554-002	342	0	8"	VP	No	(1)
6554-002	6553-010	307	0	8"	VP	No	(1)
6553-010	6553-009	196	0	8"	VP	No	(1)
SAS#1	6552-004	52	0	8"	VP	No	(1)
6552-004	6552-010	284	0	8"	VP	No	(1)
6552-010	6553-005	341	0	8"	VP	No	(1)
6553-005	6553-006	270	0	8"	VP	No	(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. HEIGHT (FT)	EX. RIM	PROP. RIM	NOTES
6554-019	1+34.66	RT-5.55	4'DIA. Precast Round	0.83	900.75	900.75	ADJUST SAS

STORM SEWER SCHEDULE

*REVISED 7/13/2015 KDF

TURNER AVENUE 2015
PROJECT NO. 53W1844

SHEET NO.
U-7

STORM SEWER SCHEDULE

TURNER AVE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
TURNER AVE							
S-1	1+83.91	RT-15.85	TAP	-	897.23	-	
S-2	2+10.00	RT-15.50	3X3 SAS	902.01	897.51	4.50	W/R-3067-7004-V
S-2A	2+14.40	LT-15.28	H INLET	902.64	898.41	4.23	W/R-3067-7004-V
S-3	4+39.91	RT-15.50	3X3 SAS	908.30	903.86	4.44	W/R-3067-7004-V
S-4	5+10.21	RT-15.50	3X3 SAS	909.04	904.49	4.55	W/R-3067-7004-V
S-4A	5+10.21	LT-15.50	H INLET	909.59	905.26	4.33	W/R-3067-7004-V
S-5	8+58.48	RT-15.50	3X3 SAS	911.72	907.08	4.64	W/R-3067-7004-V
S-5A	8+64.48	RT-15.50	H INLET	911.92	907.65	4.27	W/R-3067-7004-V
S-6	8+58.48	LT-15.50	H INLET	912.24	907.57	4.67	FP, LP, UD, W/R-3067-7004-VB
S-6A	8+64.48	LT-15.50	H INLET	912.48	907.89	4.59	W/R-3067-7004-V
* S-7	8+36.48	LT-37.41	H INLET	912.40	907.94	4.46	FP, W/R-3067-7004-V
S-8	8+05.48	LT-37.47	H INLET	911.85	908.35	3.50	W/R-3067-7004-V
S-20	23+60.95	RT-36.84	3X6 SAS	898.25	892.84	5.41	LP, UD, W/R-3067-7004-VB
S-20A	23+84.06	RT-15.50	3X3 SAS	898.46	894.27	4.19	UD, W/R-3067-7004-V
S-20B	23+84.06	LT-15.50	H INLET	898.45	894.67	3.78	UD, W/R-3067-7004-V
S-20C	23+94.06	RT-15.50	PLUG	-	894.06	-	(1)
S-21	23+58.04	LT-37.93	3X6 SAS	898.25	893.01	5.24	LP, UD, W/R-3067-7004-VB
S-21A	23+29.06	LT-36.80	H INLET	898.25	894.39	3.86	LP, UD, W/R-3067-7004-VB
S-22	23+31.98	RT-38.01	3X3 SAS	898.25	894.21	4.04	LP, UD, W/R-3067-7004-VB
S-23	23+08.57	RT-15.50	3X3 SAS	899.26	894.69	4.57	UD, W/R-3067-7004-V
S-23A	23+08.57	LT-15.50	H INLET	899.19	895.39	3.80	W/R-3067-7004-V
S-24	21+10.00	RT-15.50	3X3 SAS	903.05	898.60	4.45	W/R-3067-7004-V
S-24A	21+02.06	LT-15.50	H INLET	902.45	899.25	3.20	W/R-3067-7004-V
S-25	19+24.96	RT-13.50	3X6 SAS	911.36	906.79	4.57	FP, W/R-3067-7004-V
S-25A	19+18.53	LT-15.50	H INLET	910.49	907.52	2.97	W/R-3067-7004-V
* S-26	16+87.49	RT-13.00	3X6 SAS	920.90	915.17	5.73	FP, W/R-3067-7004-V
* S-27	16+62.95	RT-36.80	H INLET	922.24	916.65	5.59	FP, W/R-3067-7004-V
S-28	16+31.88	RT-35.29	H INLET	922.97	918.26	4.71	FP, LP, UD, W/R-3067-7004-VB
S-29	16+02.73	RT-15.50	H INLET	923.34	919.16	4.18	FP, W/R-3067-7004-V
S-30	15+82.82	LT-15.50	H INLET	922.40	919.34	3.06	FP, W/R-3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
TURNER AVE										
P-1	S-1	S-2	897.23	897.51	26	23.1	1.21%	14"x23"	HERCP	-
P-2	S-2	S-3	897.51	903.86	230	226.9	2.80%	18"	RCP	-
P-2A	S-2	S-2A	898.01	898.41	31	28.6	1.40%	12"	RCP	-
P-3	S-3	S-4	903.86	904.49	66	63	1.00%	18"	RCP	-
P-4	S-4	S-5	904.49	907.08	348.5	345.3	0.75%	18"	RCP	-
P-4A	S-4	S-4A	904.99	905.26	31	28.5	0.95%	12"	RCP	-
P-5	S-5	S-6	907.33	907.57	31	28.5	0.84%	15"	RCP	-
P-5A	S-5	S-5A	907.58	907.65	10	7	1.00%	12"	RCP	-
* P-6	S-6	S-7	907.57	907.94	31	28.2	1.31%	12"	RCP	-
P-6A	S-6	S-6A	907.82	907.89	10	7	1.00%	12"	RCP	-
P-7	S-7	S-8	908.19	908.35	31	29	0.55%	12"	RCP	-
P-20A	S-20	S-20A	893.84	894.02	31.5	27.1	0.66%	18"	RCP	-
P-20B	S-20A	S-20B	894.52	894.67	31	29	0.52%	12"	RCP	-
P-20C	S-20A	S-20C	894.02	894.06	10	8.5	0.47%	18"	RCP	-
P-21	S-20	S-21	892.84	893.01	75	71.8	0.24%	30"	RCP	-
P-21A	S-21	S-21A	894.26	894.39	29	25	0.52%	15"	RCP	-
P-22	S-20	S-22	893.84	894.21	29	24.5	1.51%	18"	RCP	-
P-23	S-22	S-23	894.21	894.69	32.5	28.3	1.70%	18"	RCP	-
P-23A	S-23	S-23A	895.19	895.39	31	28.5	0.70%	12"	RCP	-
P-24	S-23	S-24	894.69	898.60	198.5	195.6	2.00%	18"	RCP	-
P-24A	S-24	S-24A	899.10	899.25	32	29.4	0.51%	12"	RCP	-
P-25	S-24	S-25	898.60	906.79	185	182.1	4.50%	18"	RCP	-
P-25A	S-25	S-25A	907.29	907.52	30	25.6	0.90%	12"	RCP	-
* P-26	S-25	S-26	906.79	915.17	237.5	234.5	3.57%	18"	RCP	-
* P-27	S-26	S-27	915.42	916.65	34	30.7	4.01%	15"	RCP	-
P-28	S-27	S-28	917.65	918.26	31	29.1	2.10%	15"	RCP	-
P-29	S-28	S-29	918.51	919.16	35	32.2	2.02%	12"	RCP	-
P-30	S-29	S-30	919.16	919.34	37	34.5	0.52%	12"	RCP	-

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

STANDARD NOTES:

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

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

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

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.

- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

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

SPECIFIC NOTES

(1) PLUG PAID FOR UNDER BID ITEM 20336

STORM SEWER SCHEDULE

*REVISED 7/13/2015 KDF

TOMPKINS DR. RECONSTRUCT 2015 PROJECT NO. 53W1837	SHEET NO. U-8
STORM SEWER SCHEDULE	
TOMPKINS DR.	CITY OF MADISON

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
TURNER AVE					
R-1	AS 6552-005	23+59.00	RT-30.60	4X4 SAS	-
R-2	IN 6552-007	23+68.75	RT-14.95	H INLET	-
R-3	IN 6552-006	23+68.45	LT-15.75	H INLET	-
R-4	IN 6552-008	23+30.70	RT-20.40	H INLET	-
R-5	IN 6552-009	23+27.30	LT-17.90	H INLET	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
TOMPKINS DR							
RP-1	S-20	R-1	3	30"	RCP	N	-
RP-2	R-1	R-2	15	15"	RCP	Y	-
RP-3	R-2	R-3	29	12"	RCP	Y	-
RP-4	R-1	R-4	27	15"	RCP	Y	-
RP-5	R-4	R-5	36	12"	RCP	Y	-
RP-6	R-1	S-21	65	30"	RCP	N	-

STORM SEWER ULOs

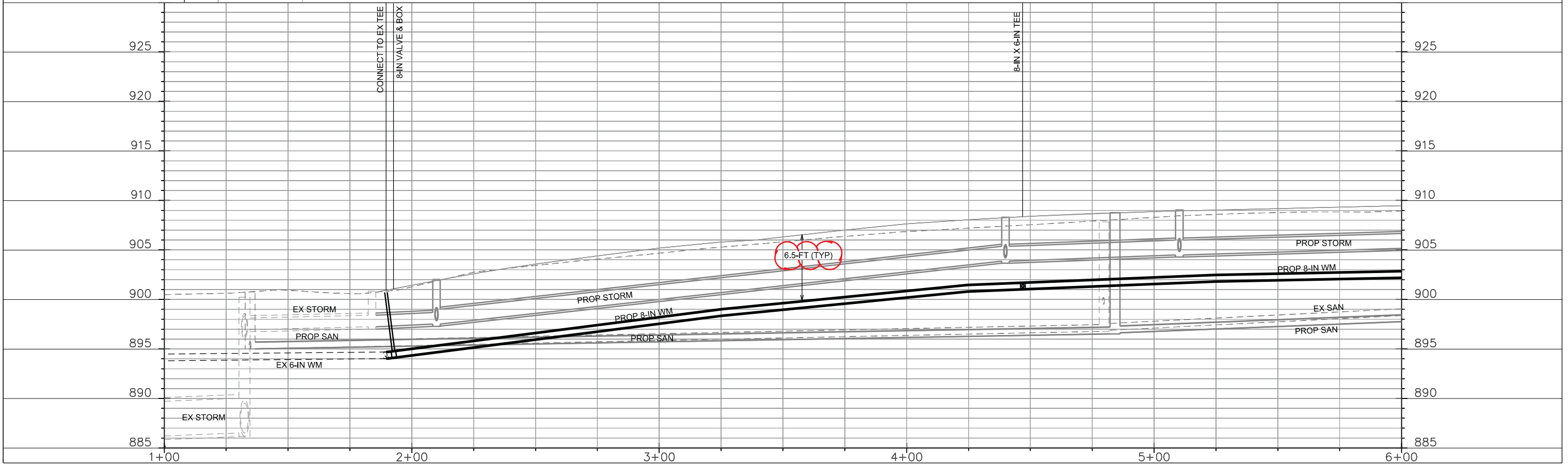
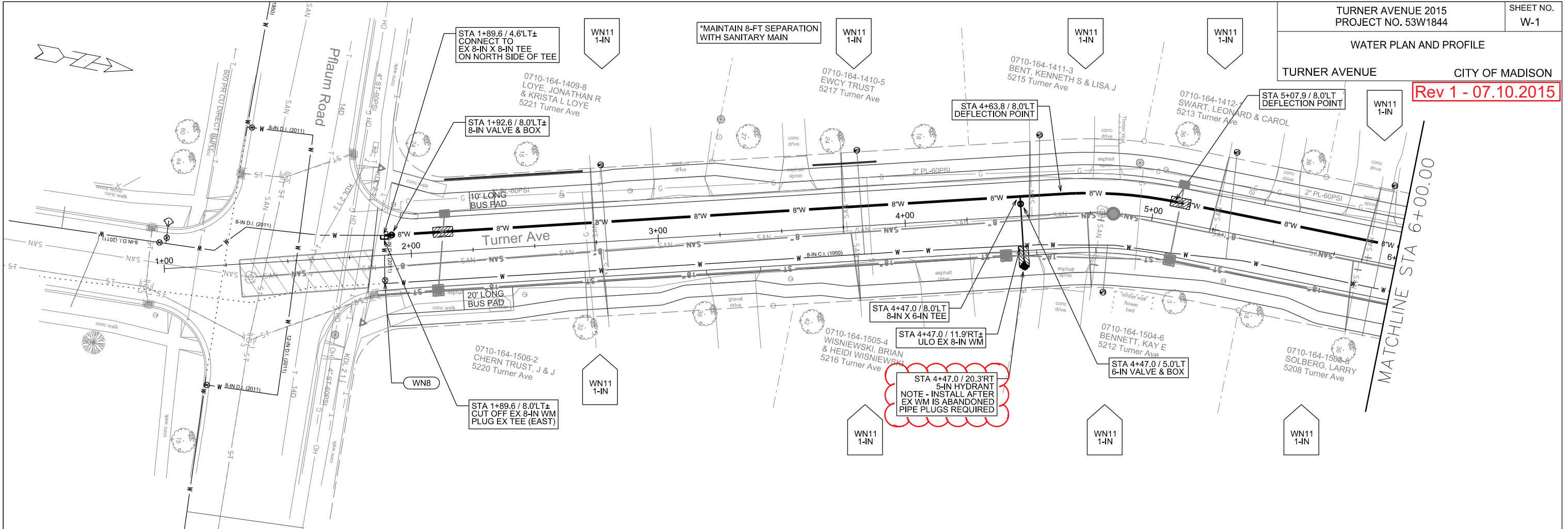
ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
TURNER AVE					
* ULO1	8+50.70	LT-22.10	GAS	909.25	3" PLASTIC, CONFLICT, (STORM REVISED)
* ULO2	16+03.60	RT-16.80	GAS	919.28	3" PLASTIC, CONFLICT, (COORDINATE MGE TO MOVE)
* ULO3	16+82.20	RT-17.50	GAS	917.38	3" PLASTIC, CONFLICT (STORM REVISED)
* ULO3X	16+82.30	RT-18.30	GAS	918.12	3"STEEL, CONFLICT (STORM REVISED)
* ULO4	19+23.50	RT-16.90	GAS	906.74	3" PLASTIC, CONFLICT, (COORDINATE MGE TO MOVE)
* ULO5	21+07.60	RT-16.70	GAS	900.16	3" PLASTIC, CONFLICT, (COORDINATE MGE TO MOVE)
* ULO6	23+10.30	RT-16.60	GAS	895.63	3" PLASTIC, CONFLICT, (COORDINATE MGE TO MOVE)
* ULO7	23+60.10	RT-18.30	GAS	891.29	3" PLASTIC, NO CONFLICT
* ULO8	23+80.30	RT-17.20	GAS	894.74	3" PLASTIC, CONFLICT, (COORDINATE MGE TO MOVE)

SPECIFIC NOTES

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Rev 1 - 07.10.2015

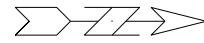


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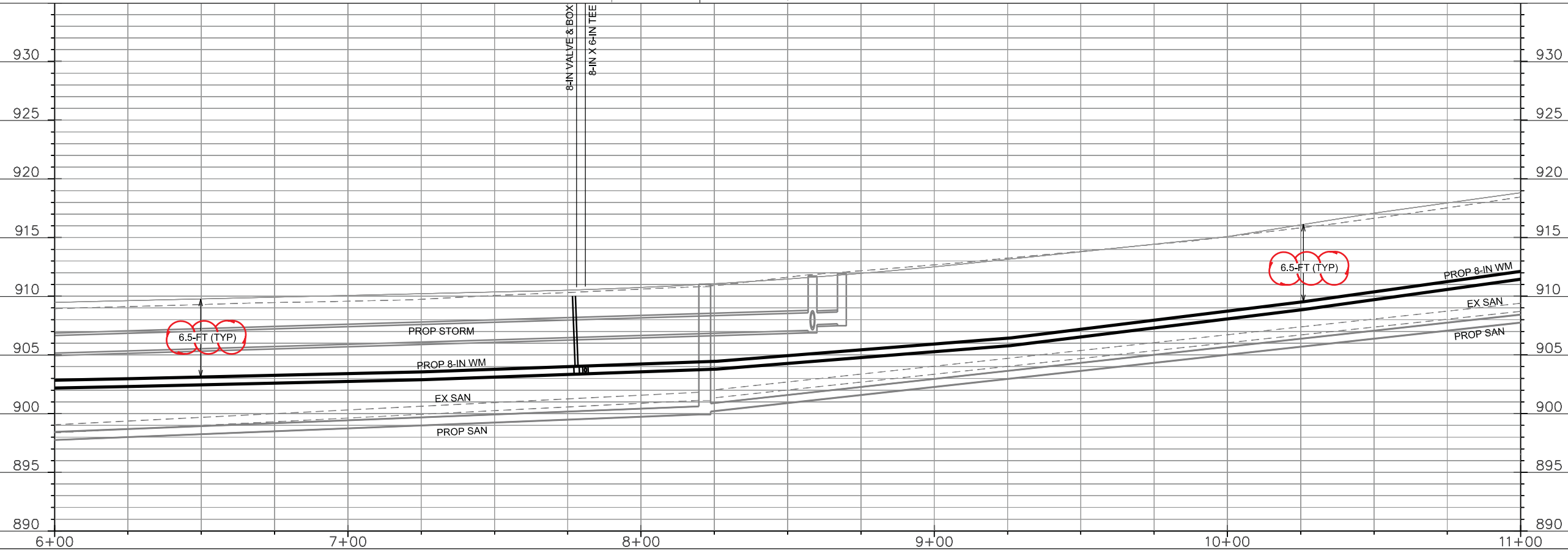
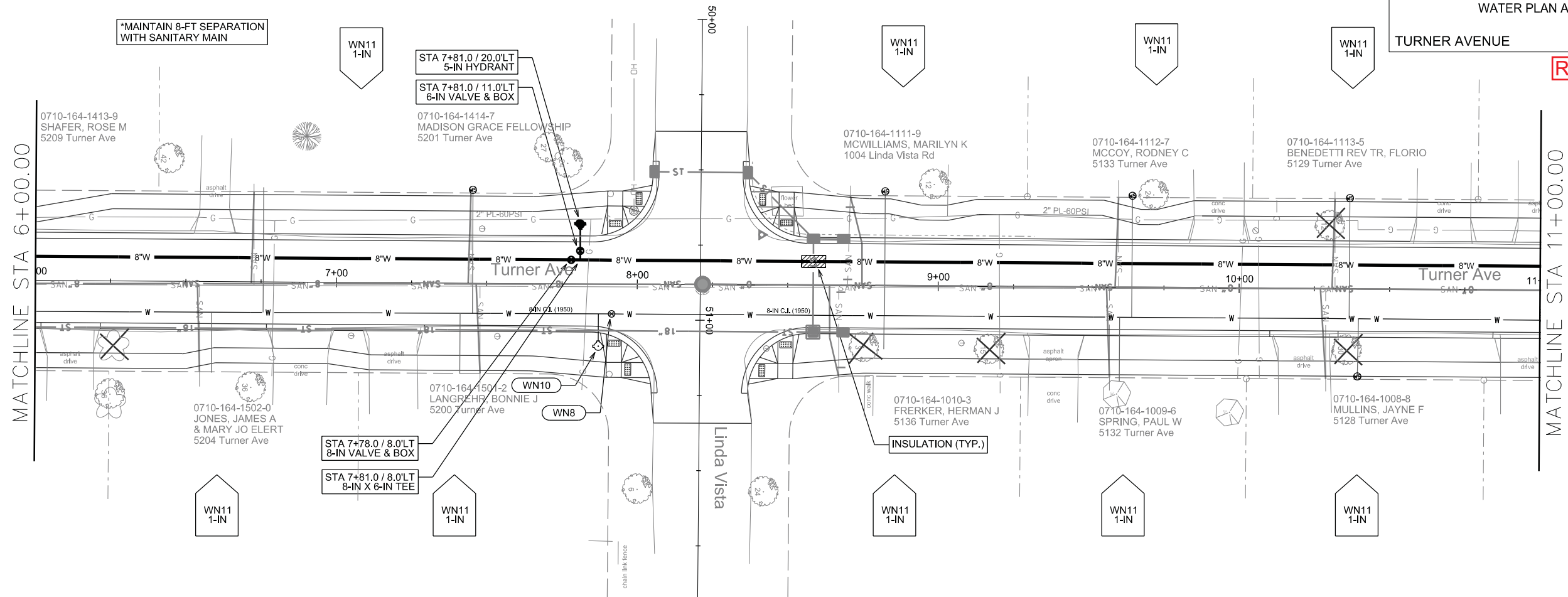
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



*MAINTAIN 8-FT SEPARATION
WITH SANITARY MAIN

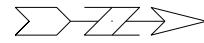


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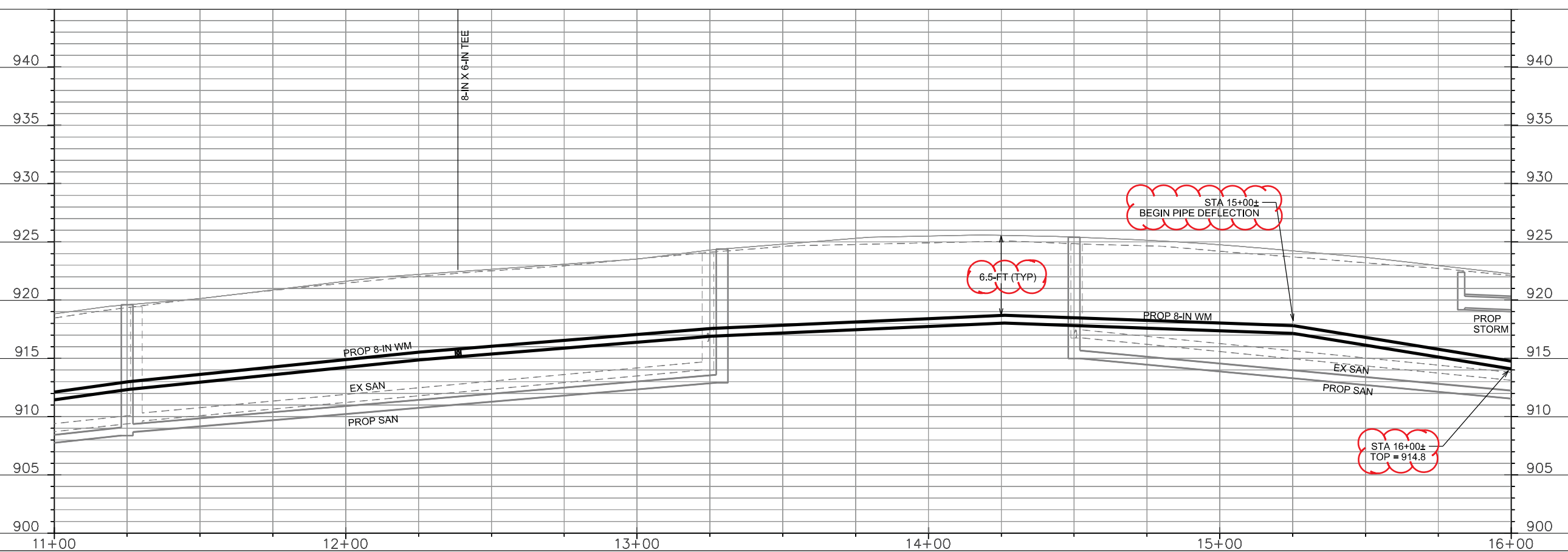
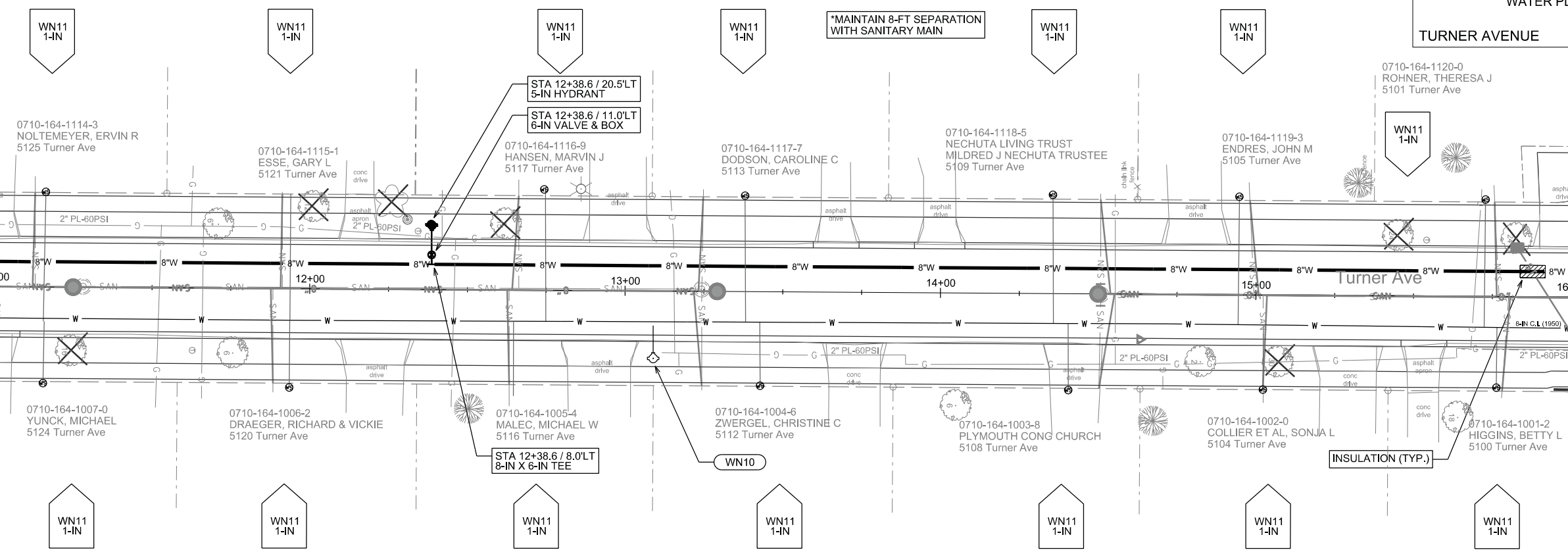
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 11+00.00

MATCHLINE STA 16+00.00



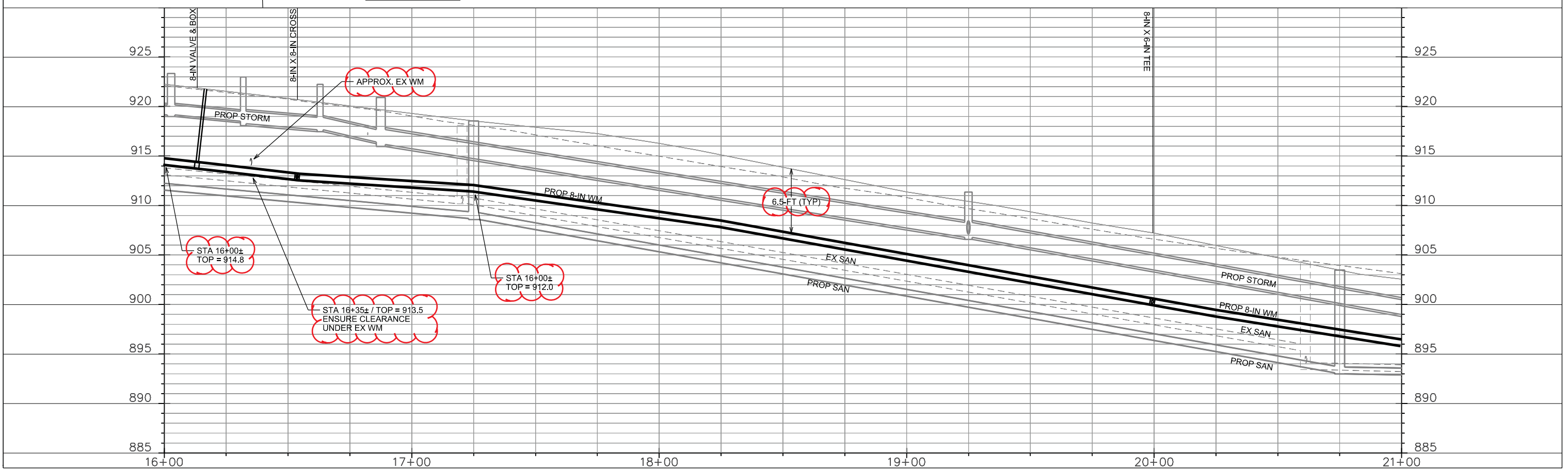
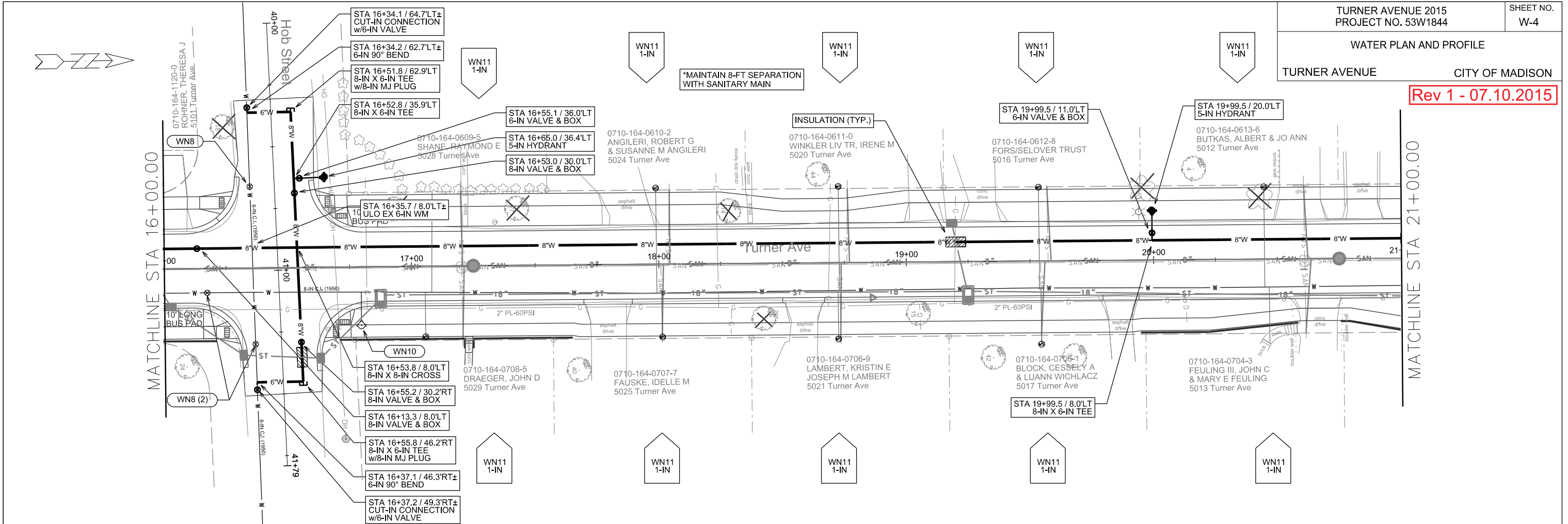
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REV. DATE:

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Rev 1 - 07.10.2015



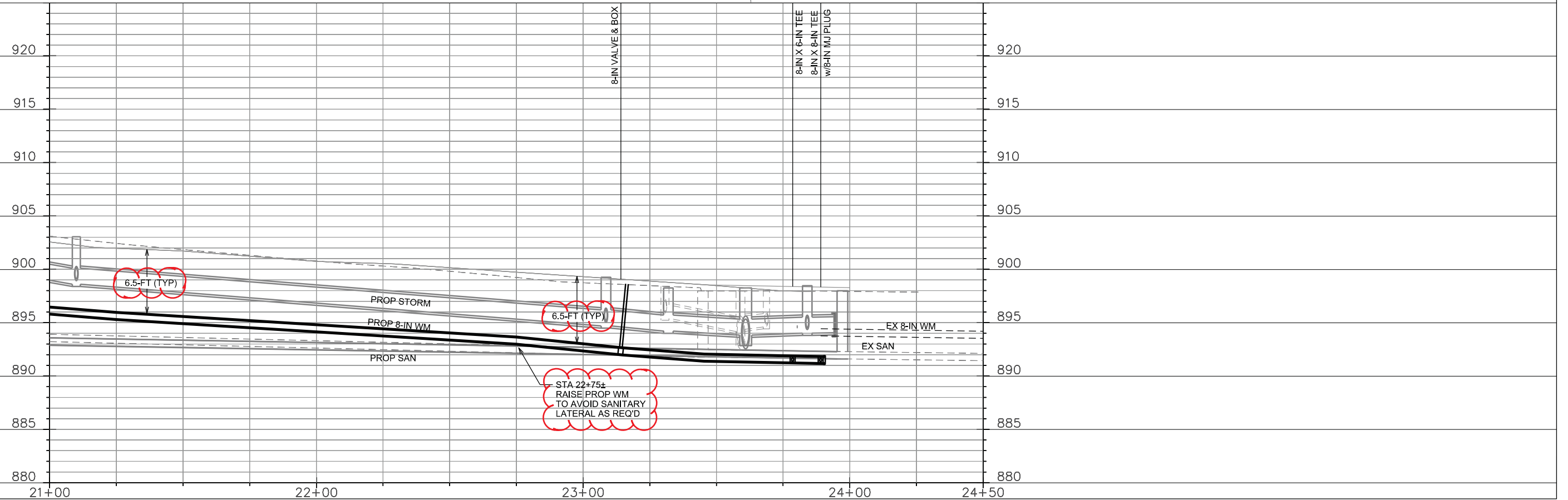
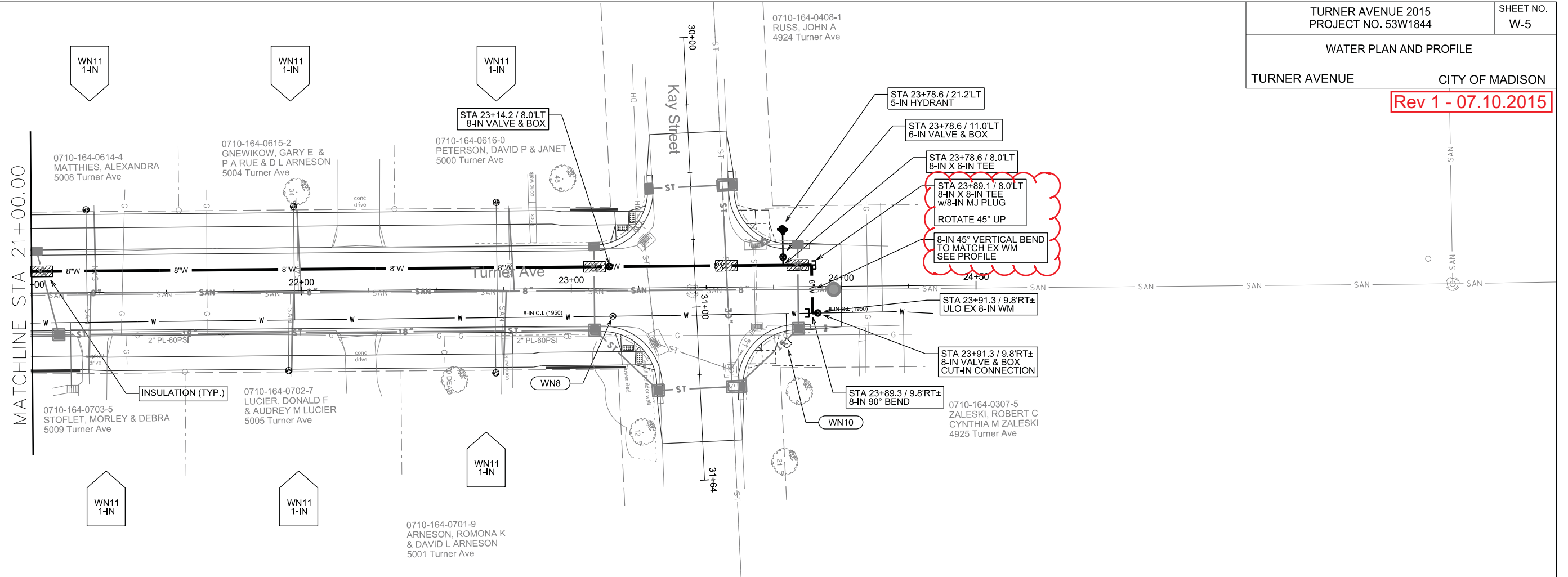
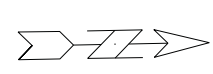
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PLOT NAME:

REV. DATE:

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Rev 1 - 07.10.2015

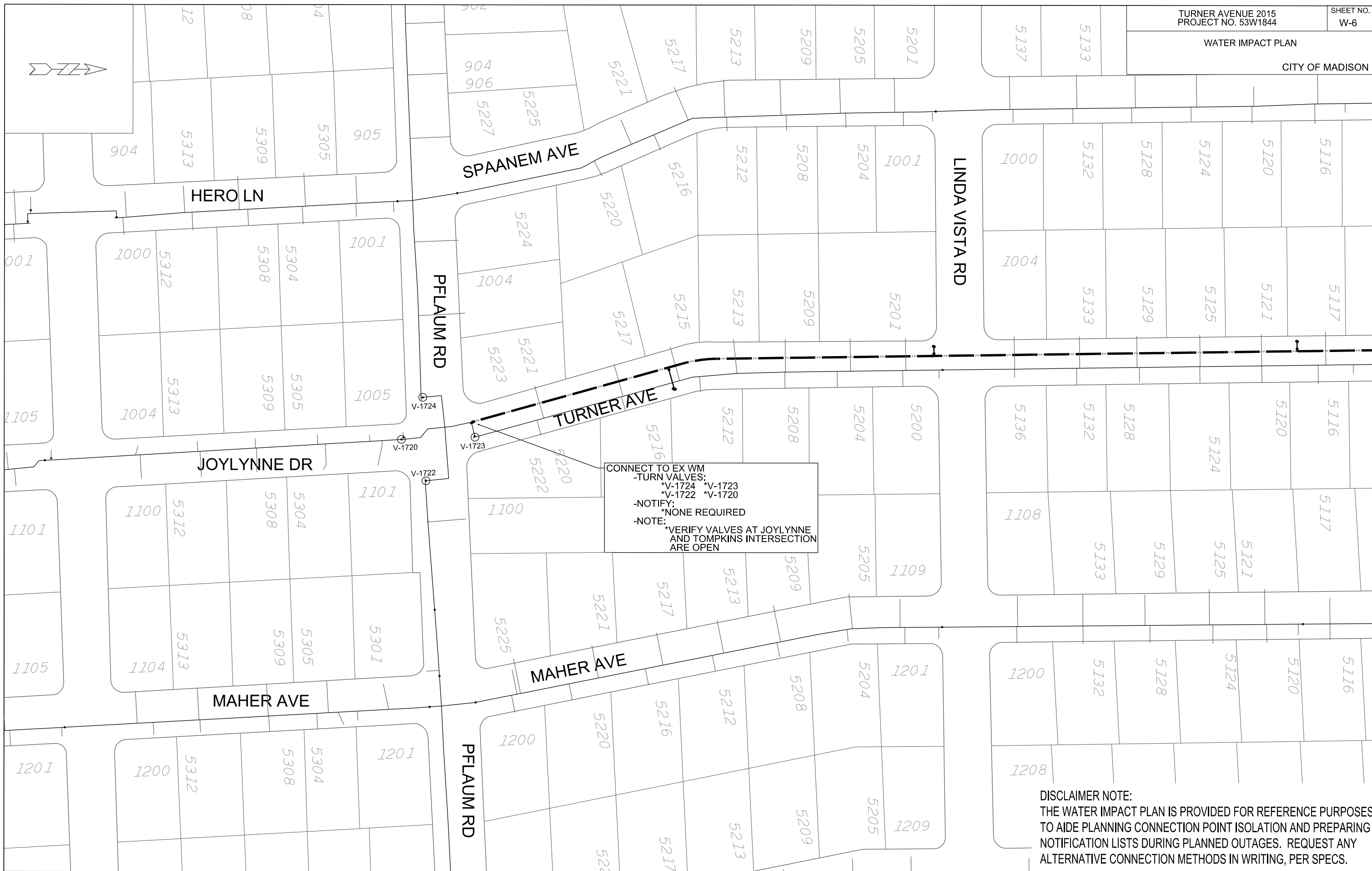


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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:

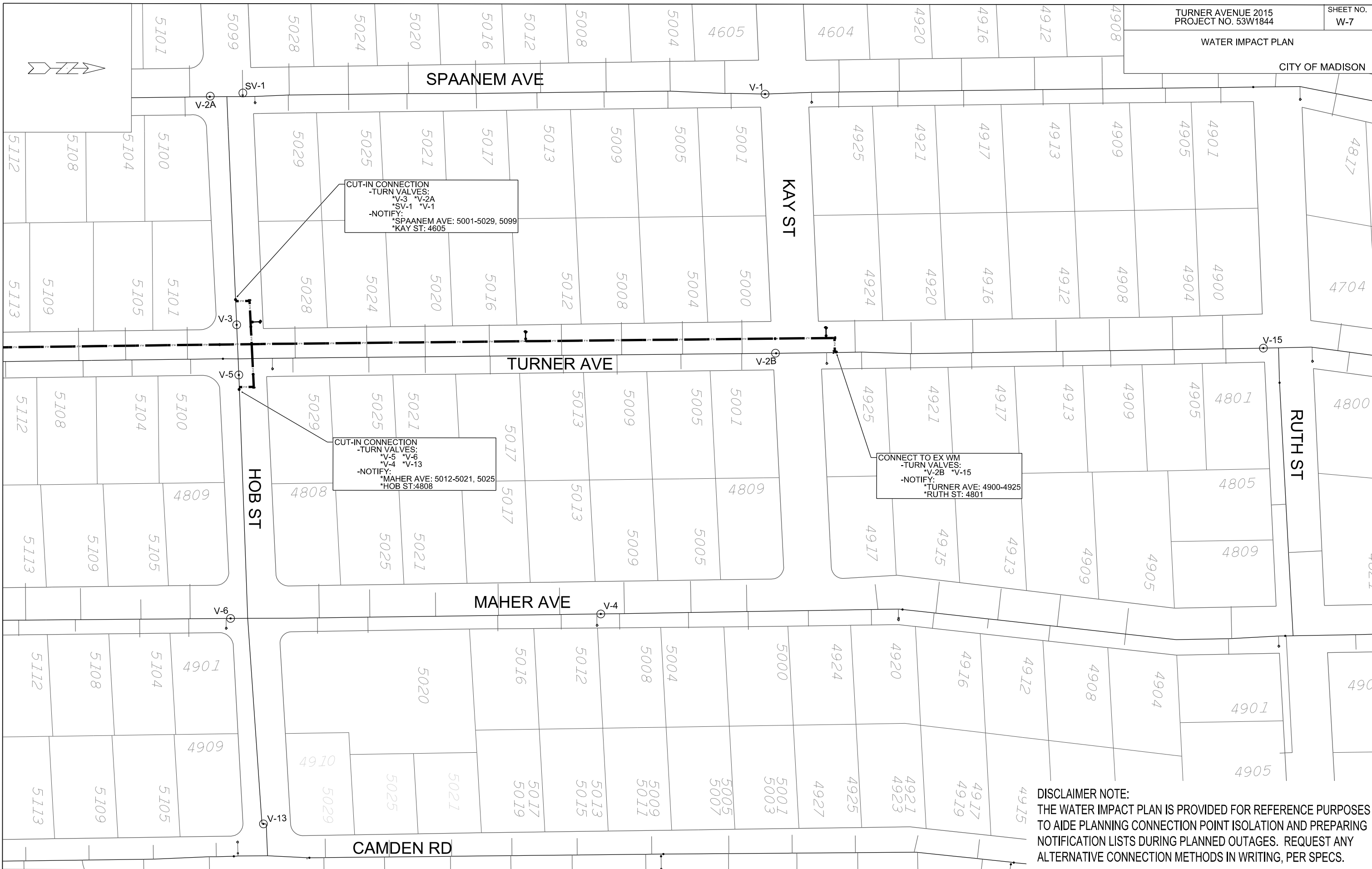
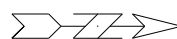
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:



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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:

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.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

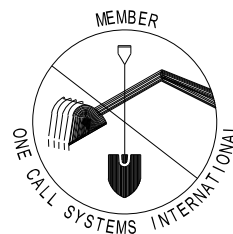
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 140-FT - 6-IN PIPE
- 2340-FT - 8-IN PIPE
- 2800-FT - POLYWRAP
- 8 - 6-IN VALVE & BOX
- 7 - 8-IN VALVE & BOX
- 2 - 6-IN 90° BEND
- 1 - 8-IN 90° BEND
- 8 - 8-IN X 6-IN TEE
- 1 - 8-IN X 8-IN TEE
- 1 - 8-IN X 8-IN CROSS
- 2 - 6-IN MJ CAP
- 1 - 8-IN MJ CAP
- 3 - 8-IN MJ PLUG
- 8-IN X 18-IN OFFSET (AS REQUIRED)
- 6 - 5-IN HYDRANT
- 100-FT - 2-IN STYROFOAM INSULATION
- 1-IN COPPER SERVICE PIPING (AS REQUIRED)

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.

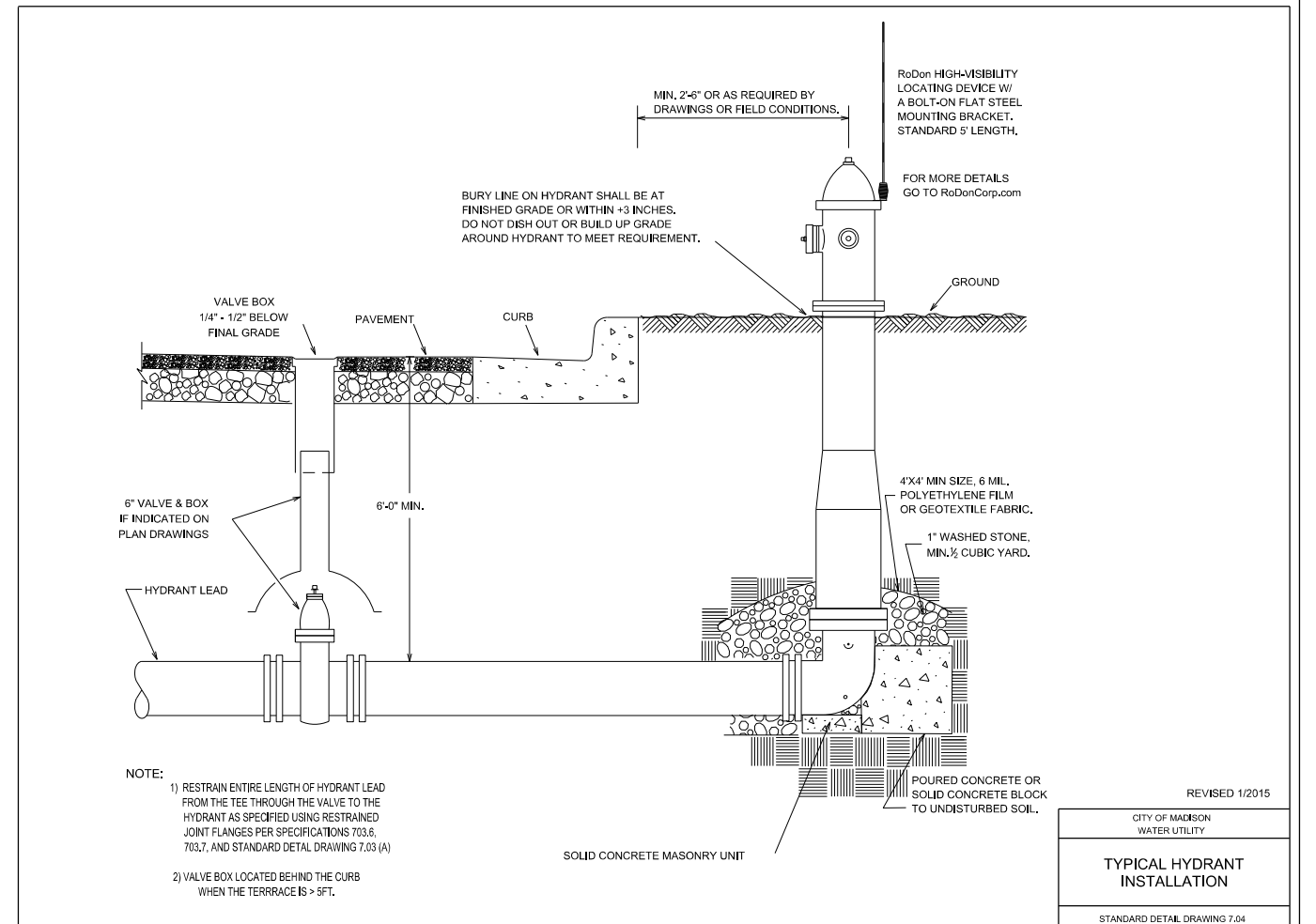
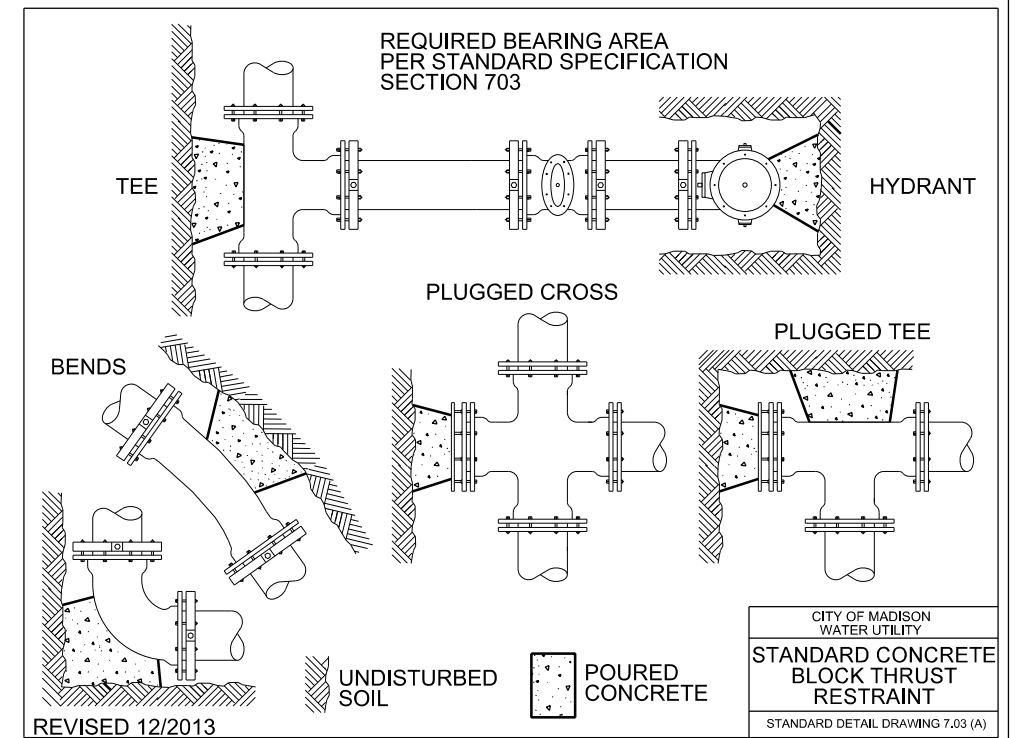


ESTIMATE OF MATERIALS SALVAGED:

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- 1 - 8-IN MJ PLUG
- 4 - HYDRANTS

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.



CROSS SECTIONS

TURNER AVENUE

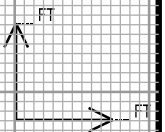
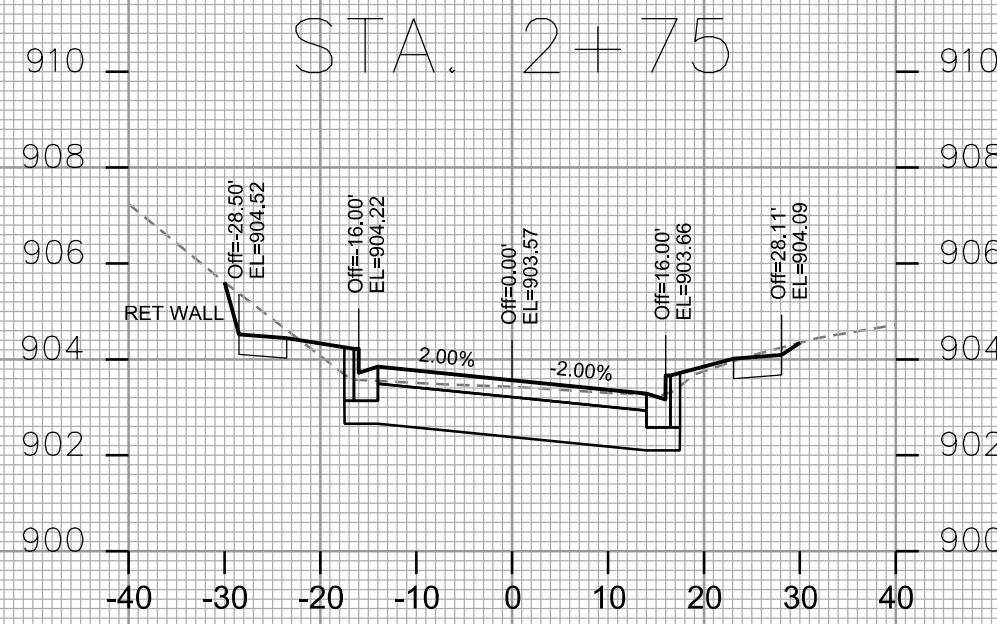
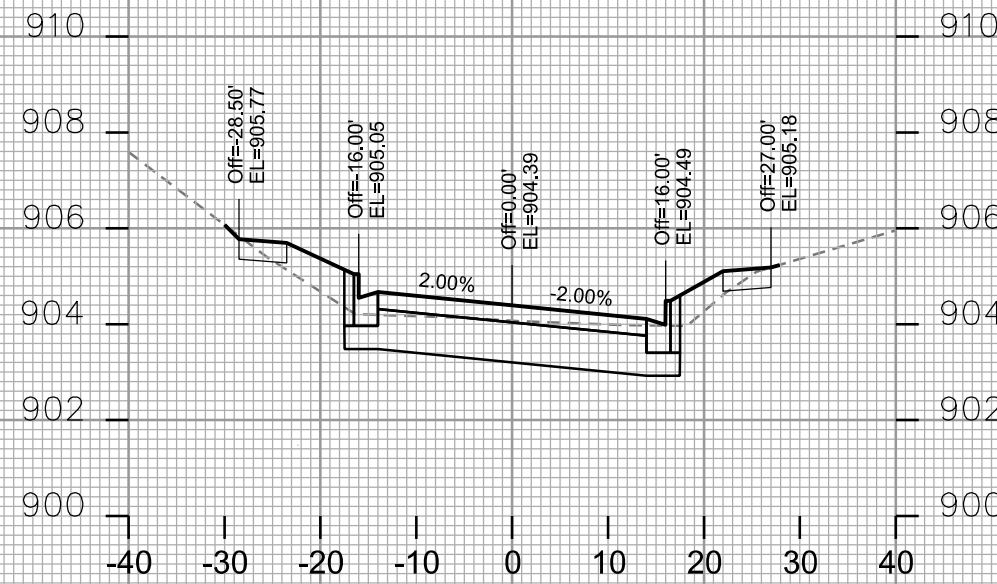
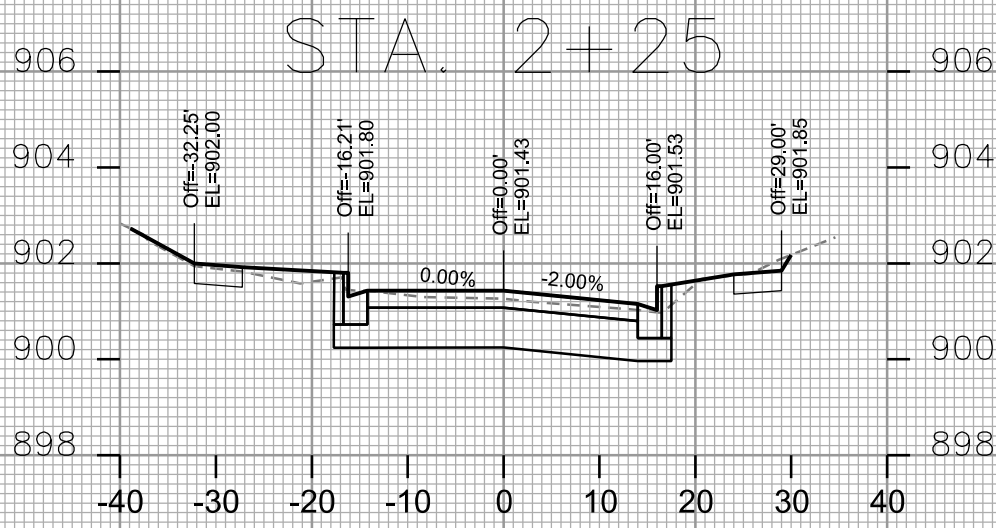
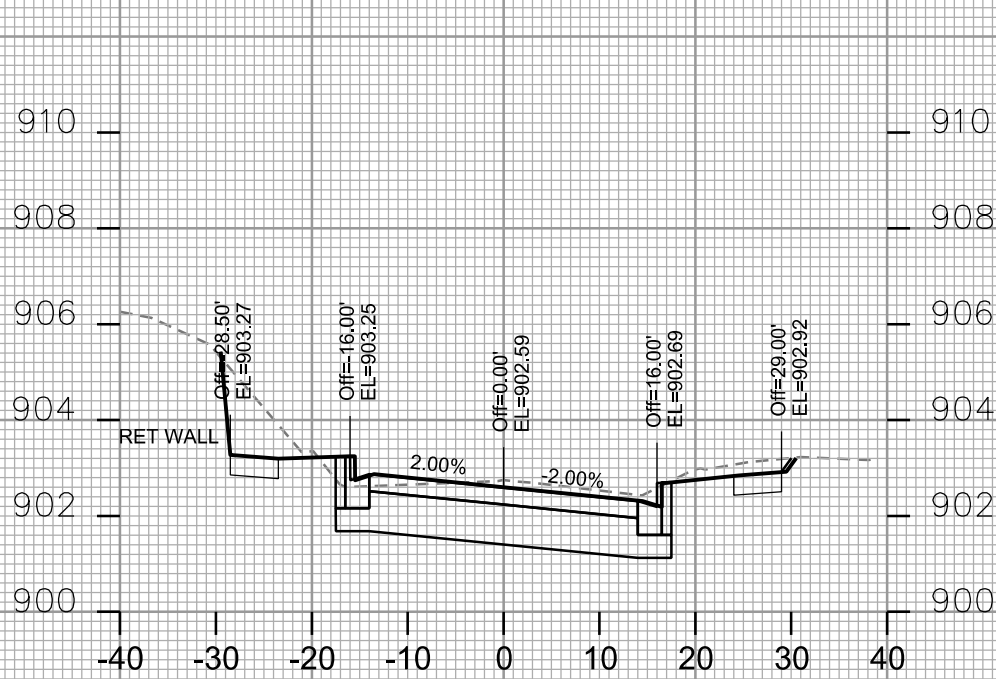
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

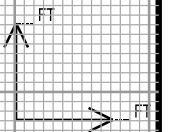
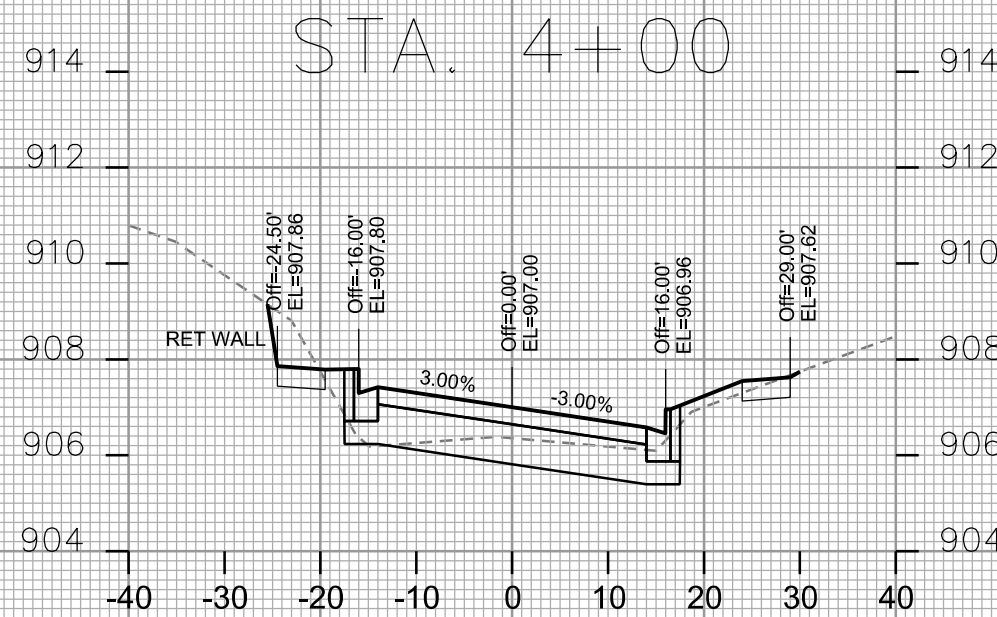
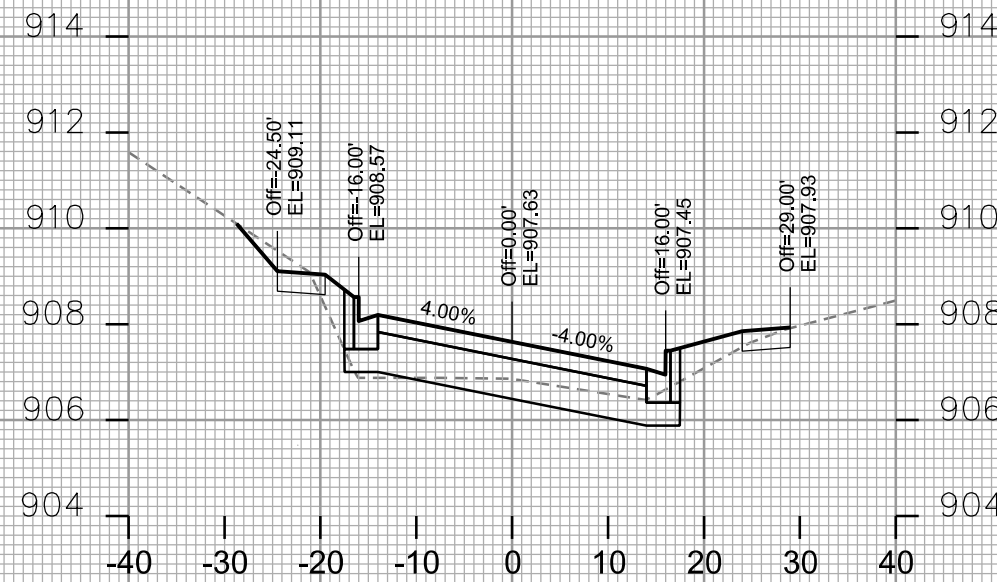
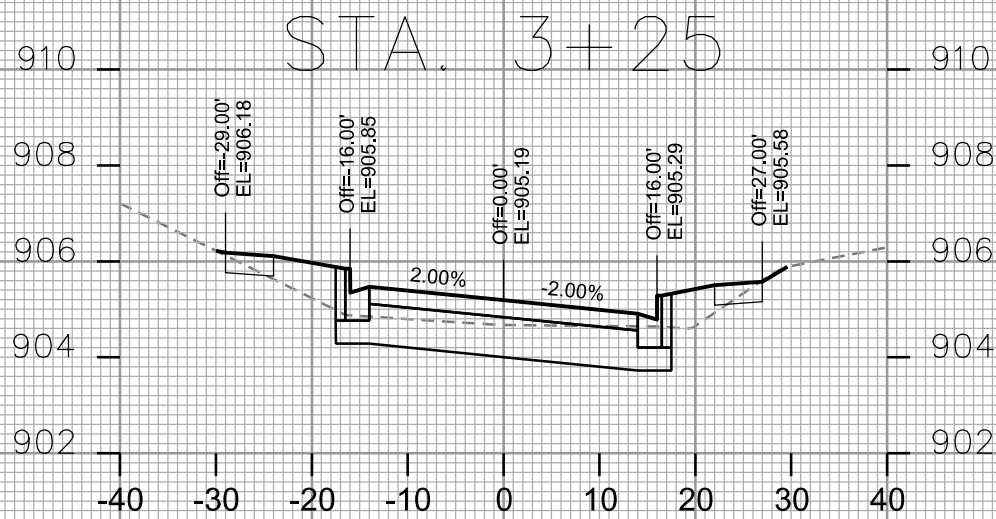
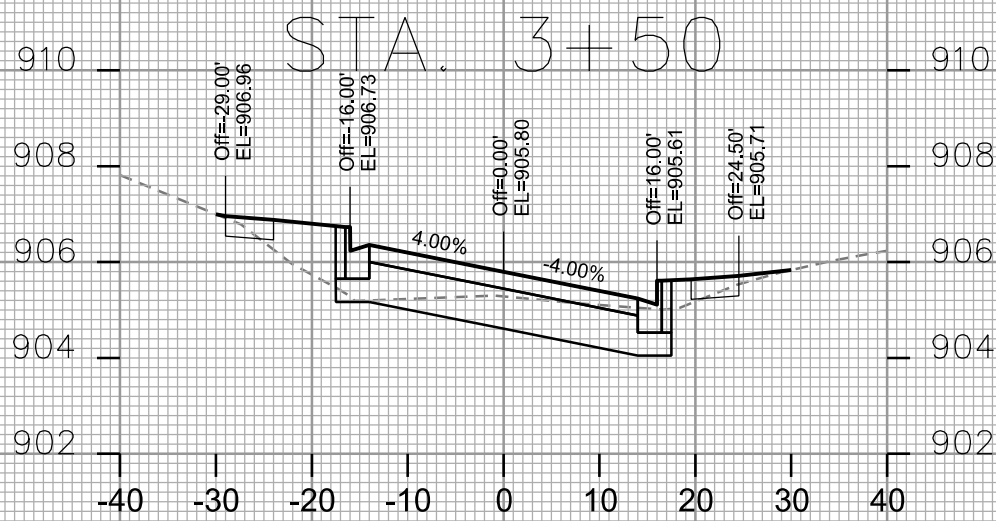
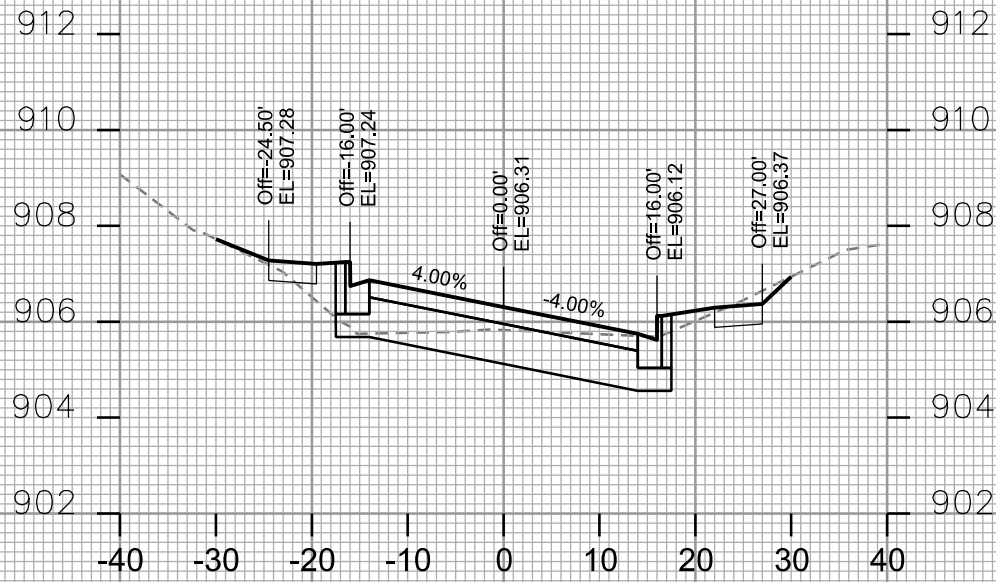
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

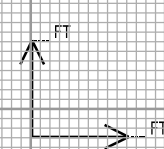
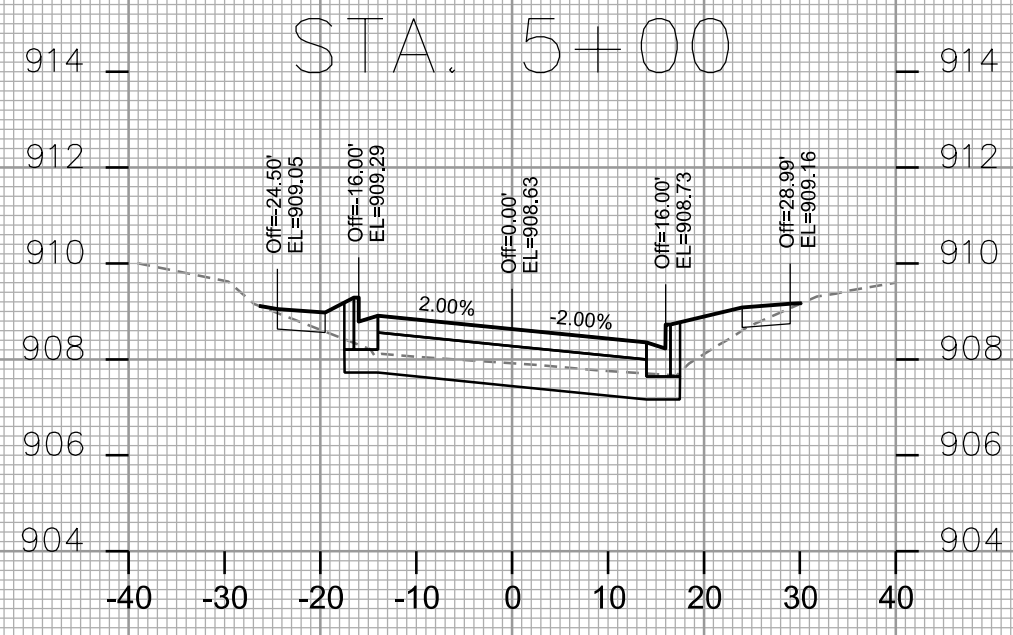
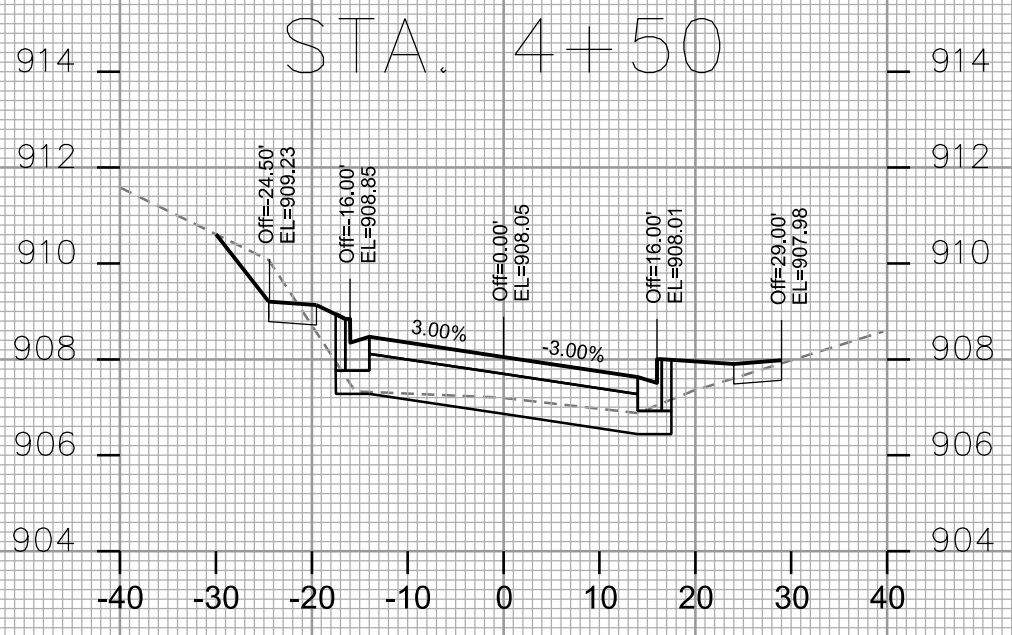
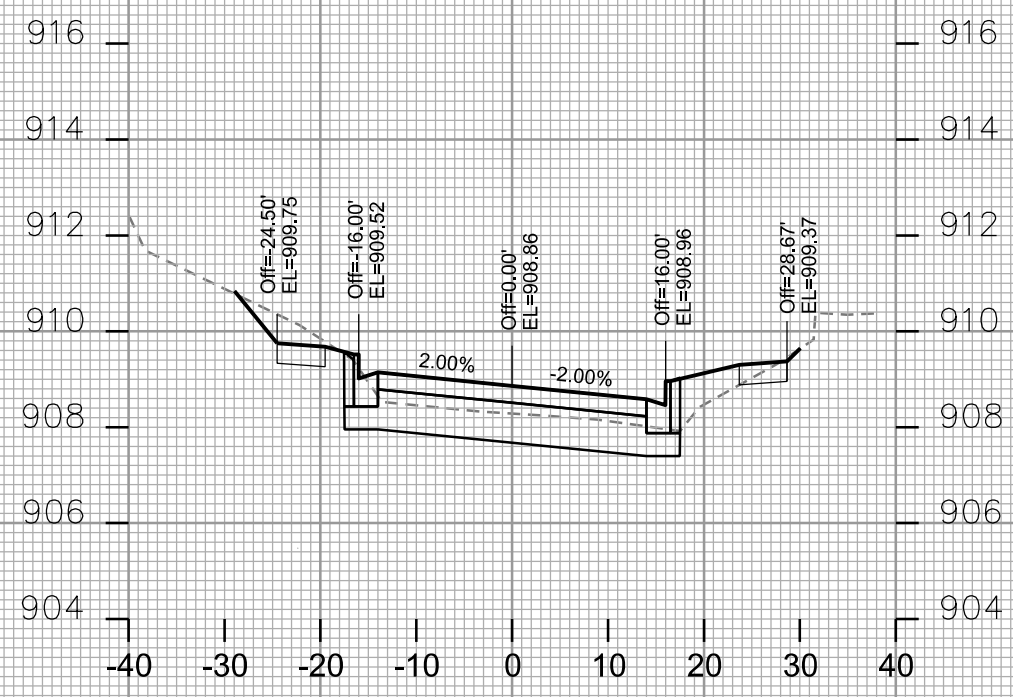
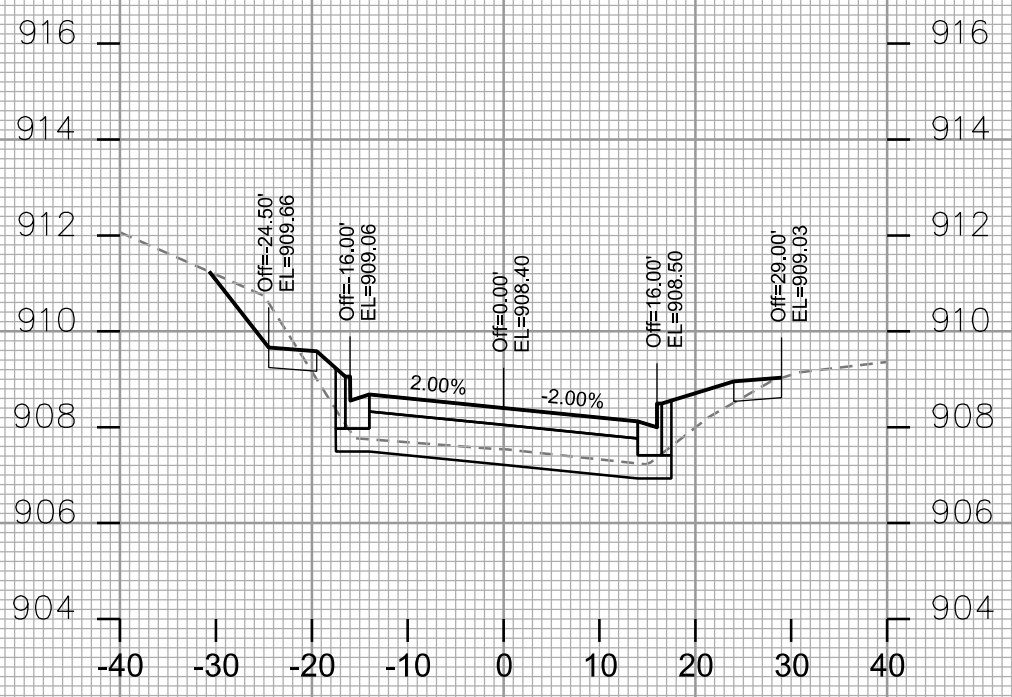
CITY OF MADISON

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

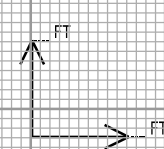
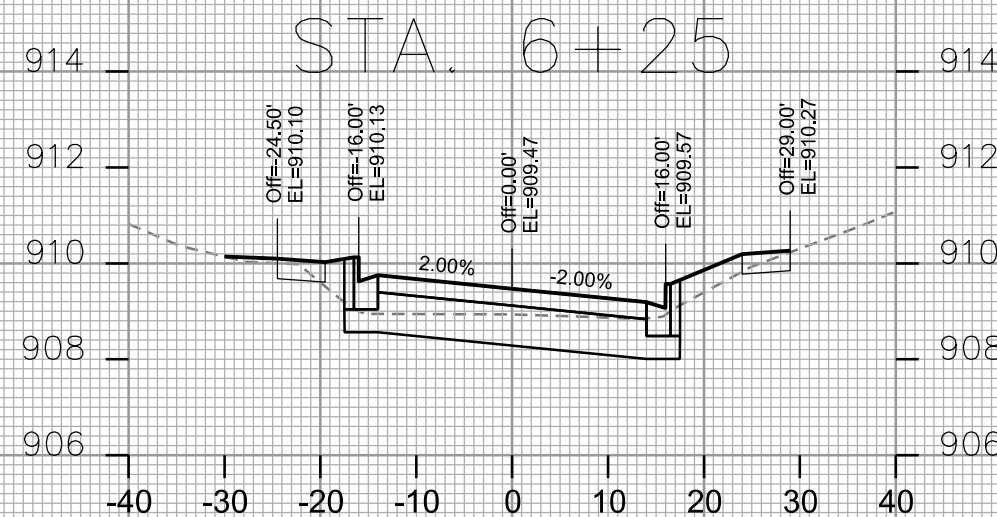
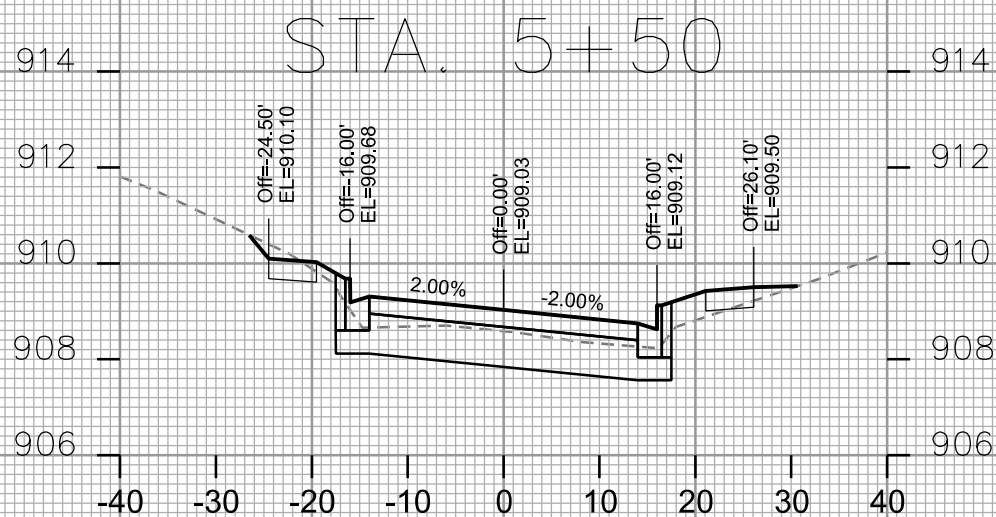
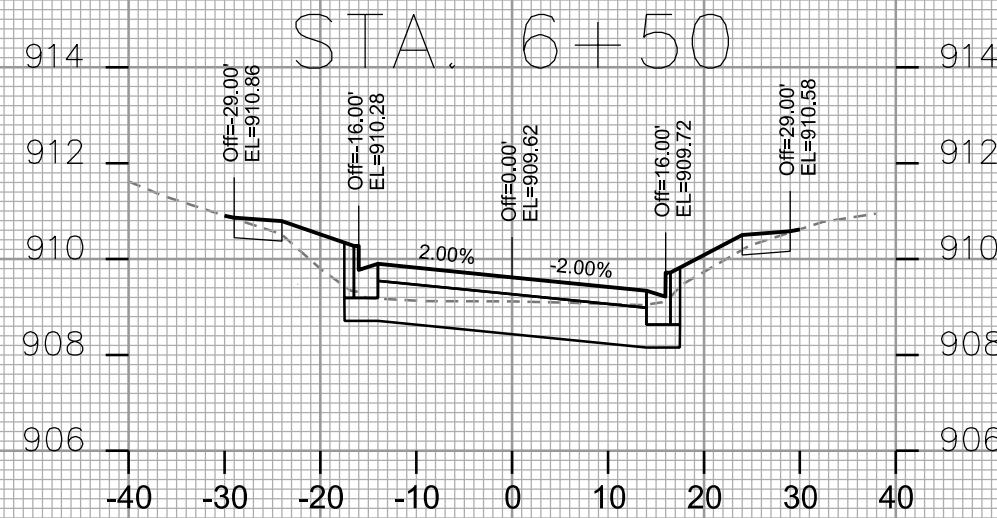
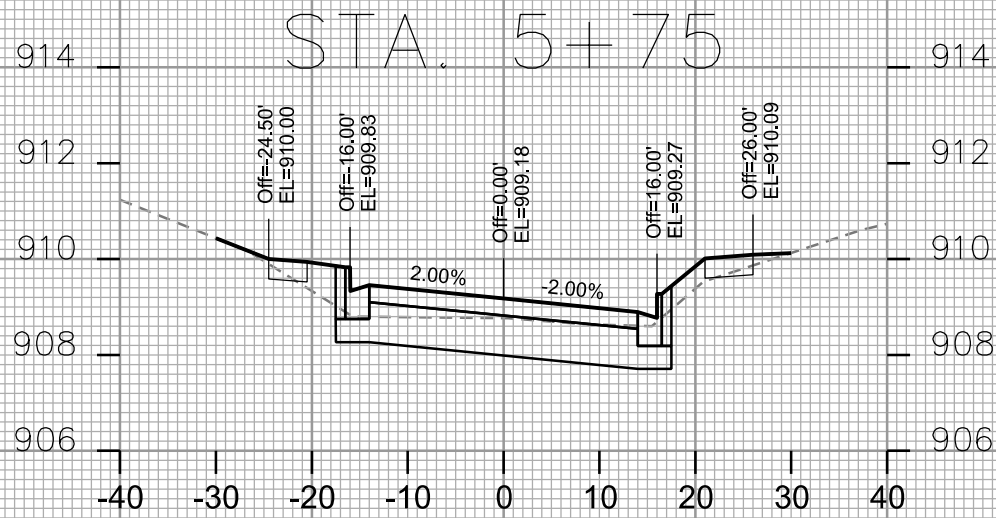
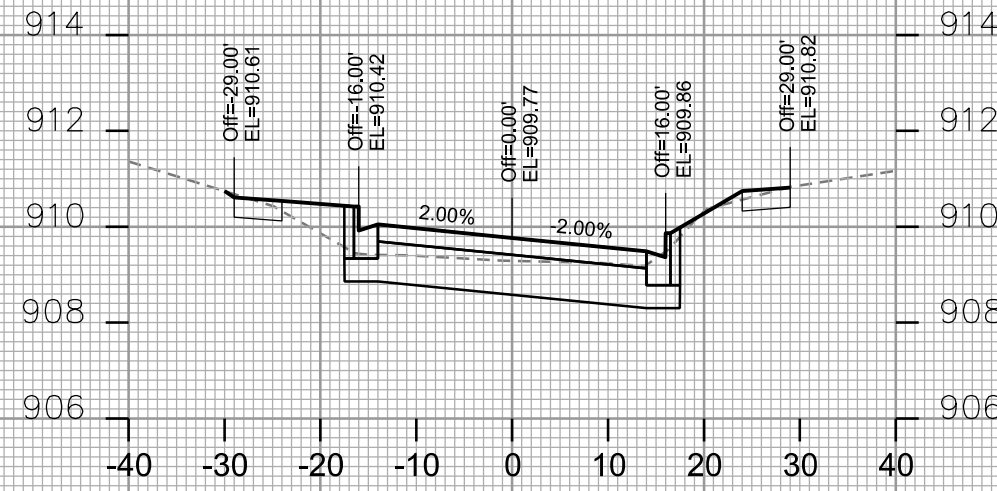
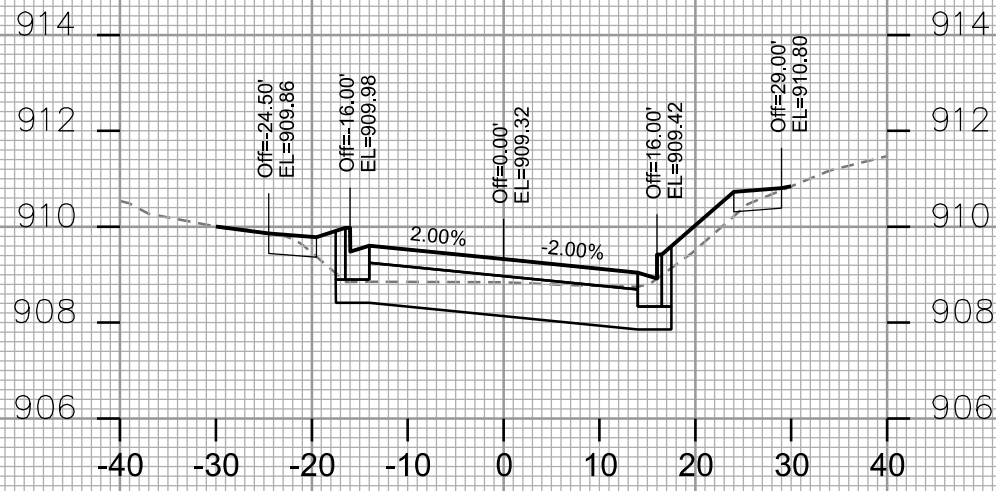
CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

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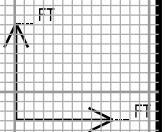
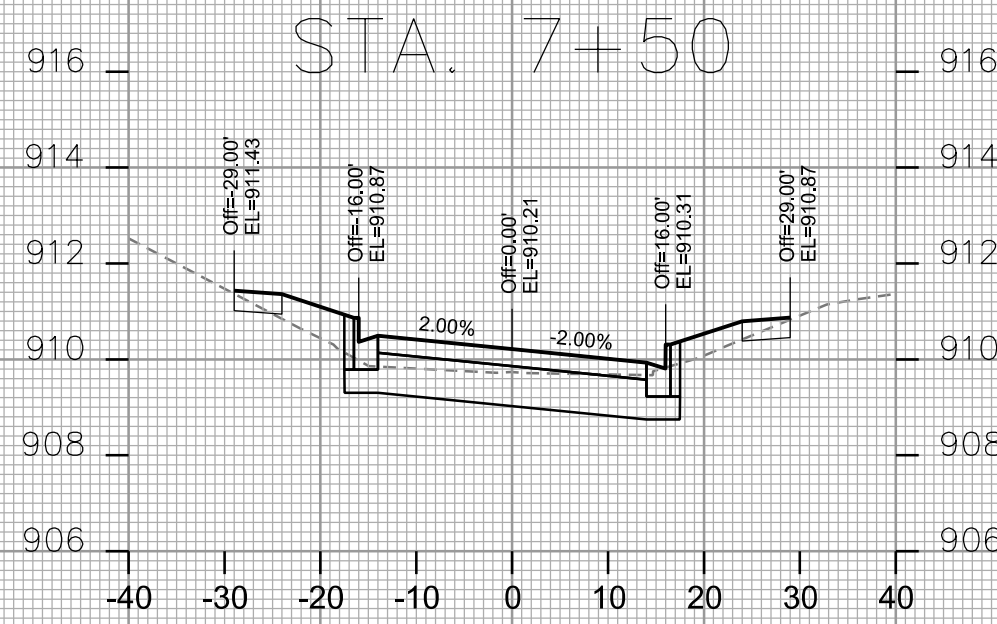
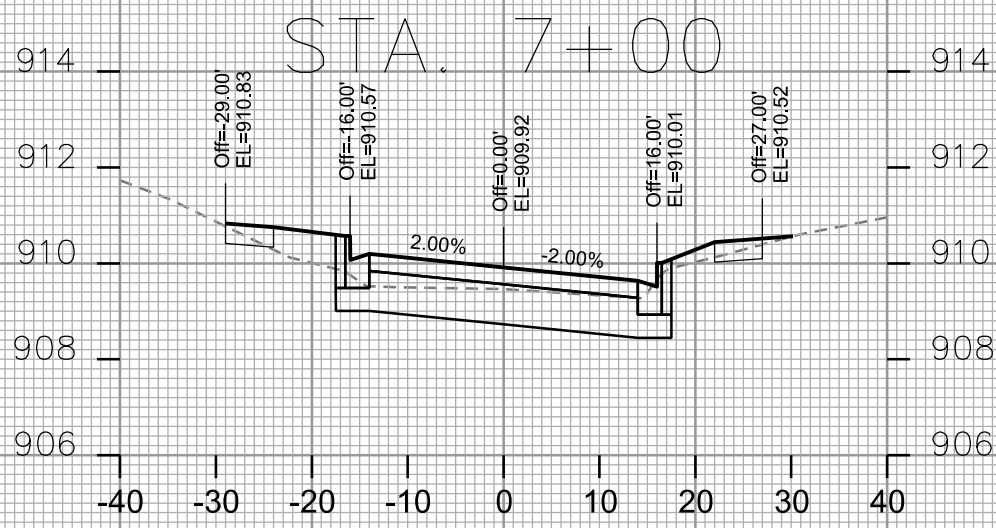
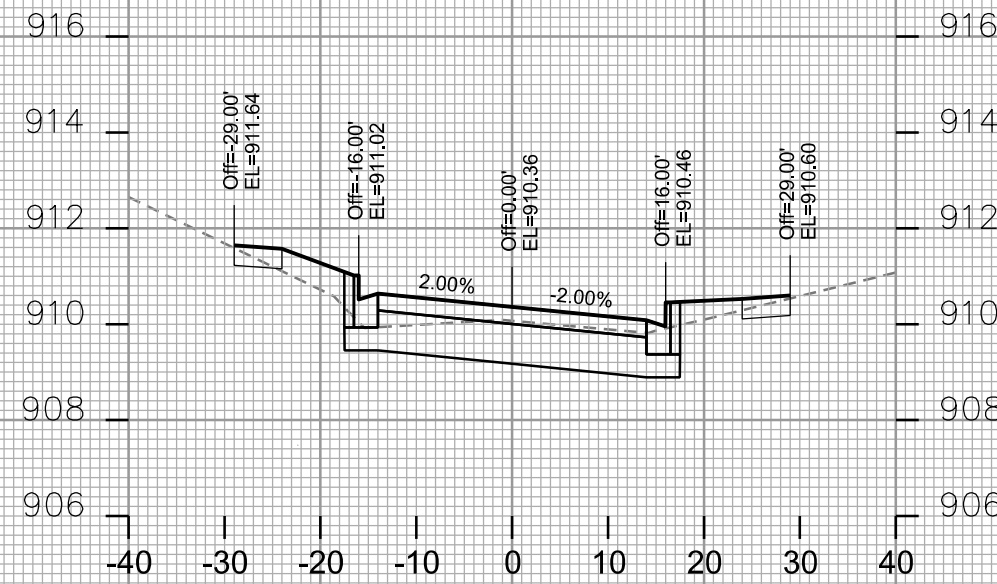
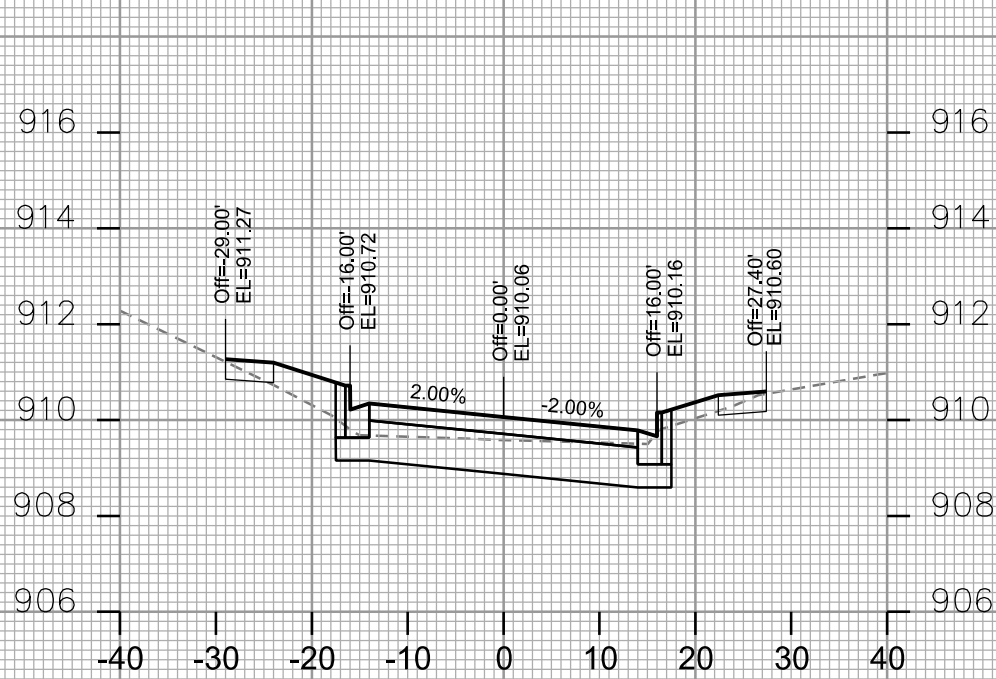
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

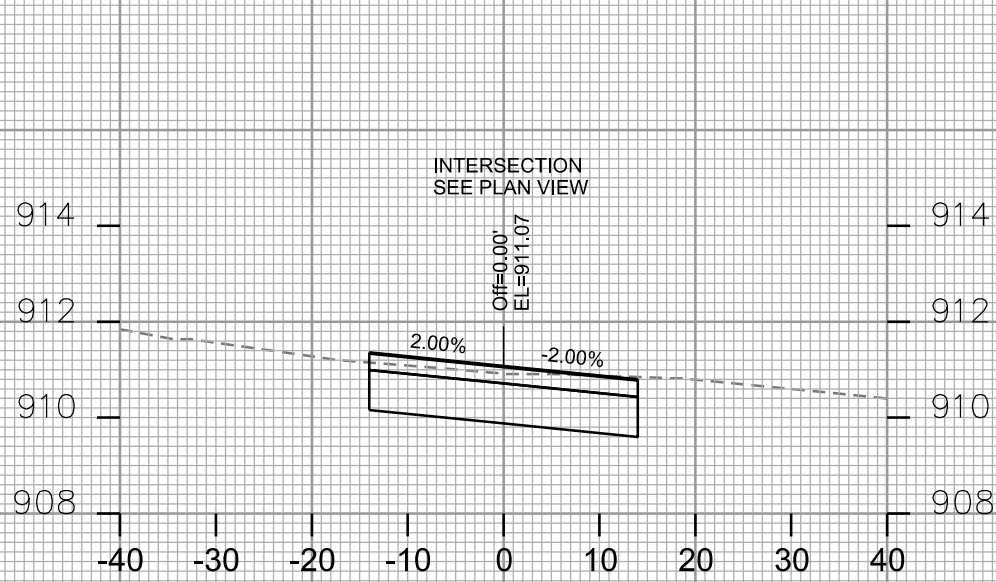
CITY OF MADISON

PLOT SCALE: _____

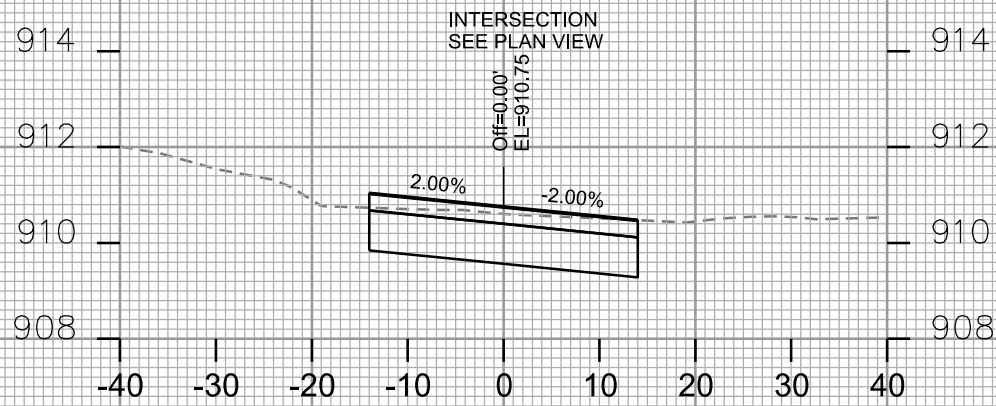
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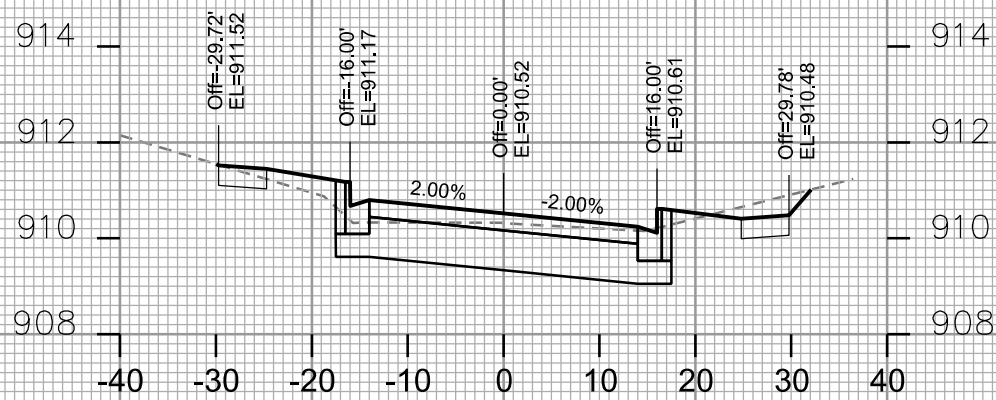
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



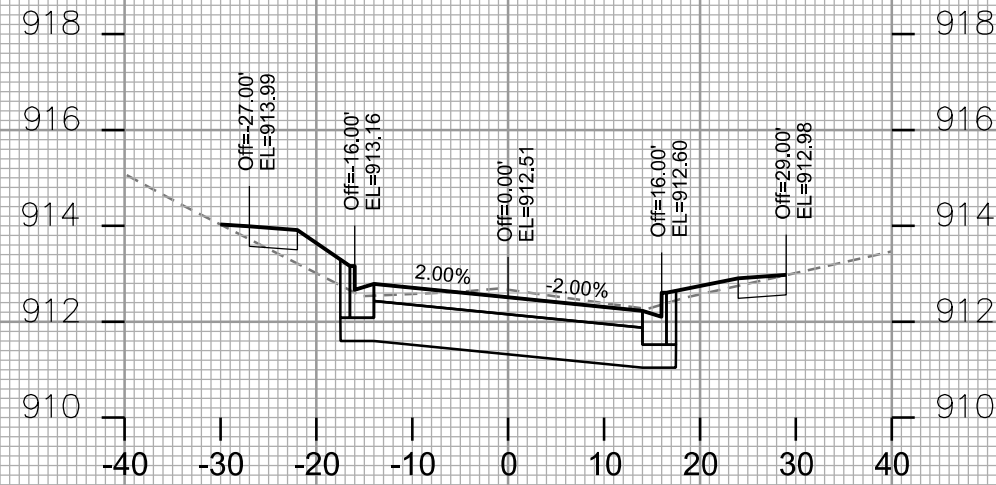
STA. 8+25



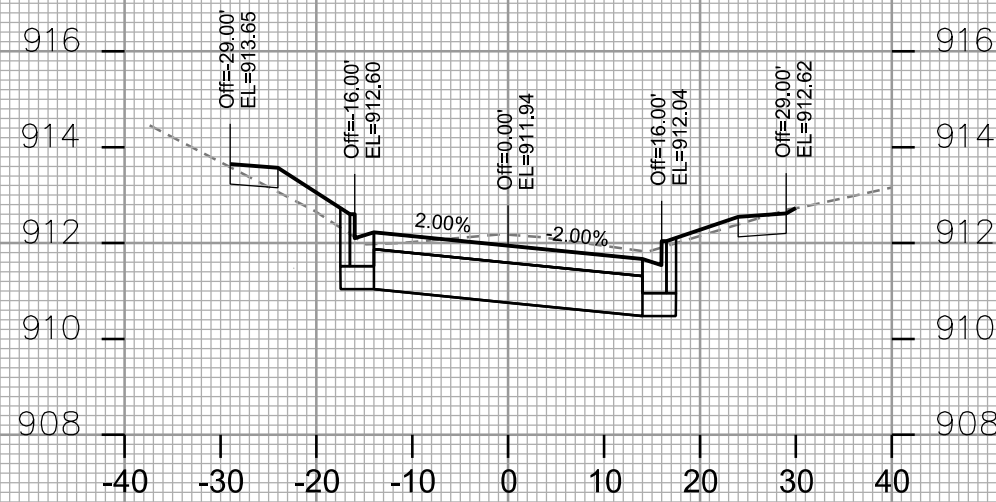
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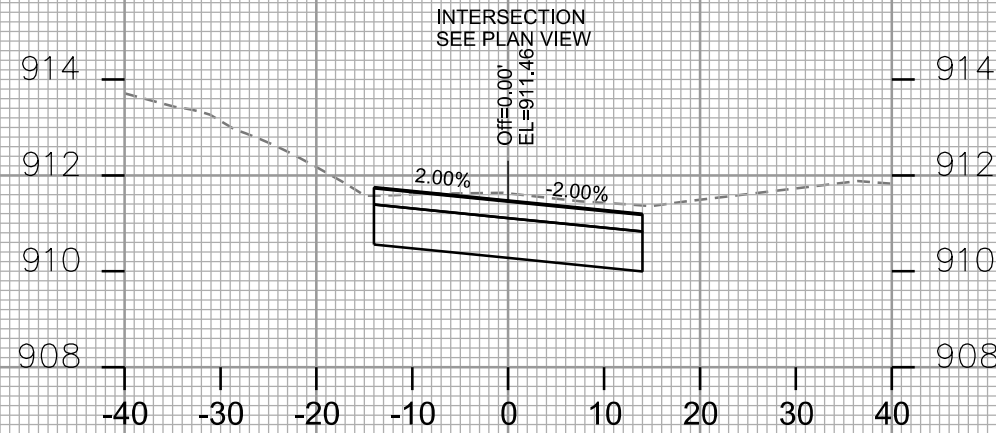
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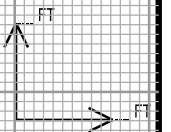
STA. 9+00



STA. 8+75



STA. 8+50



CROSS SECTIONS

TURNER AVENUE

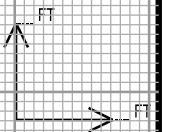
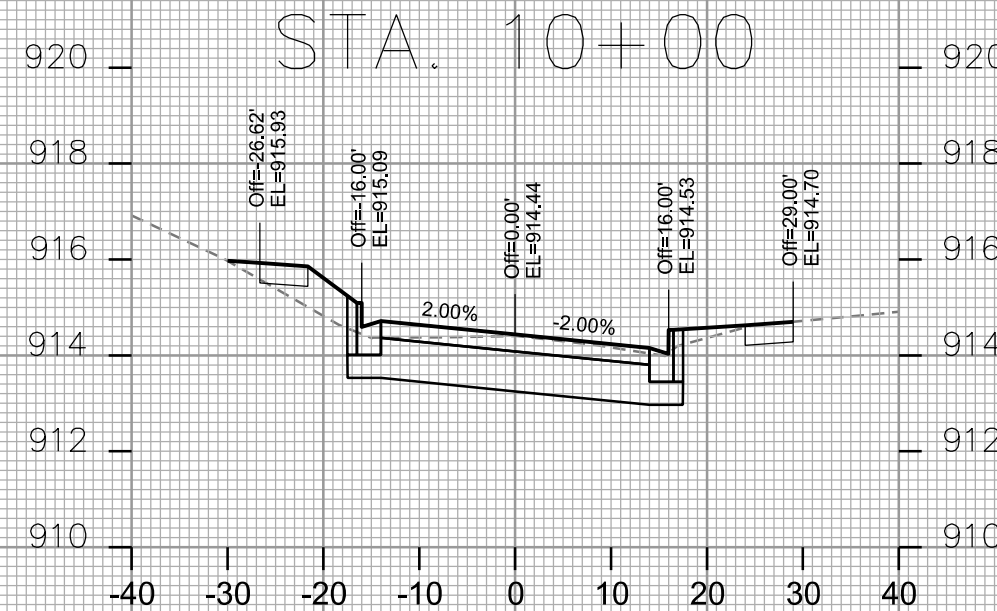
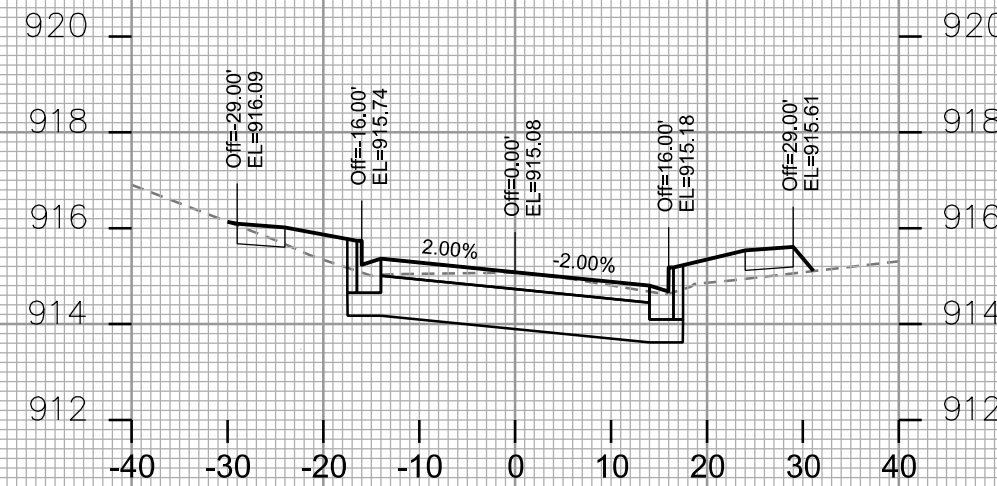
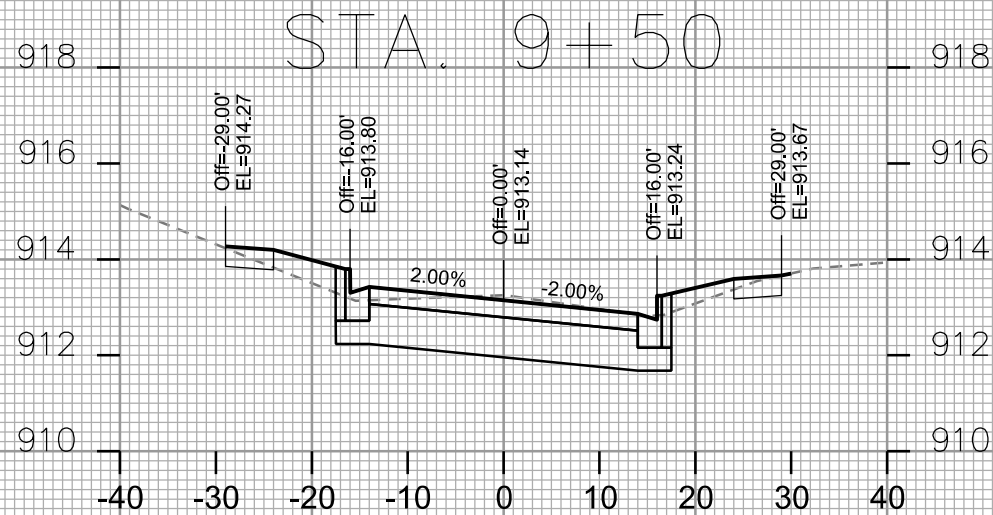
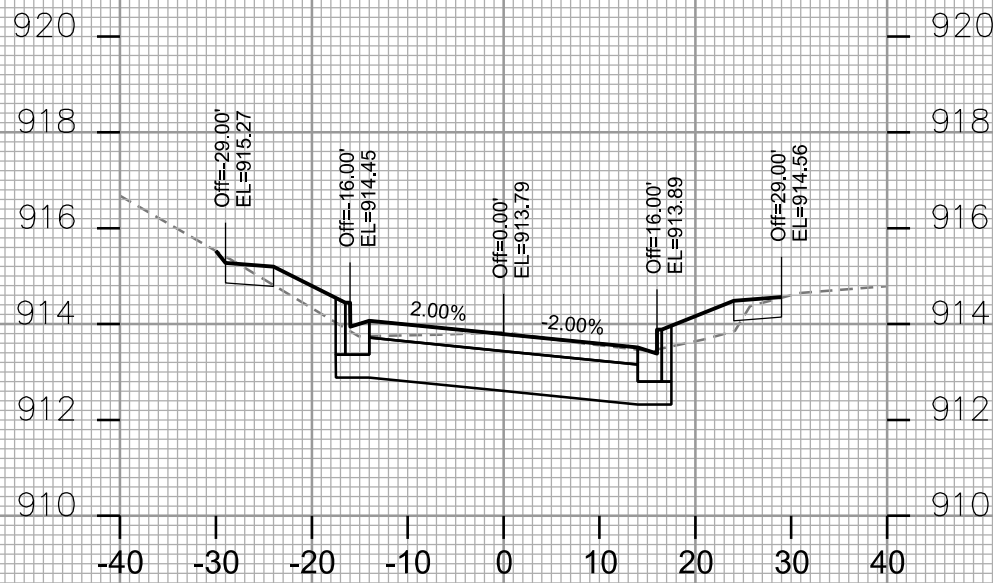
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

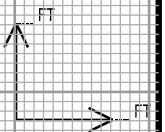
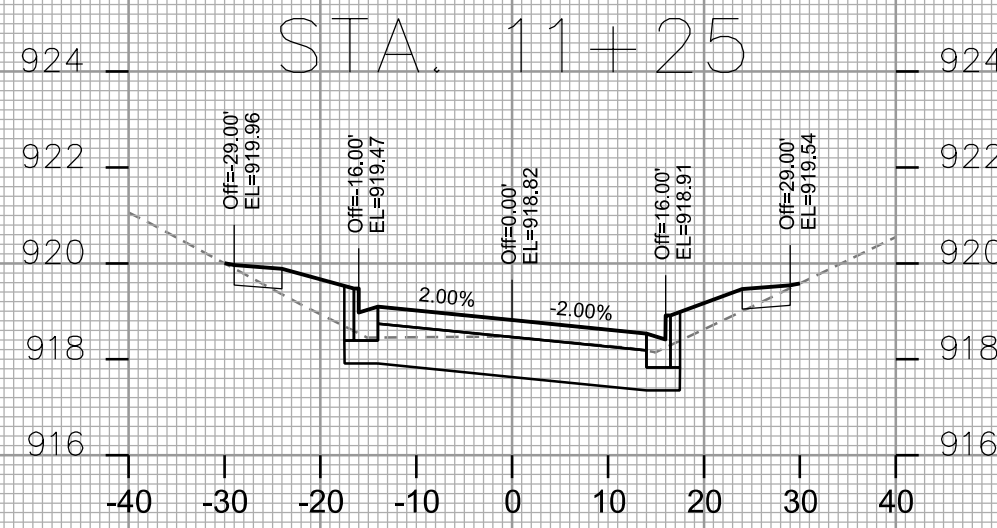
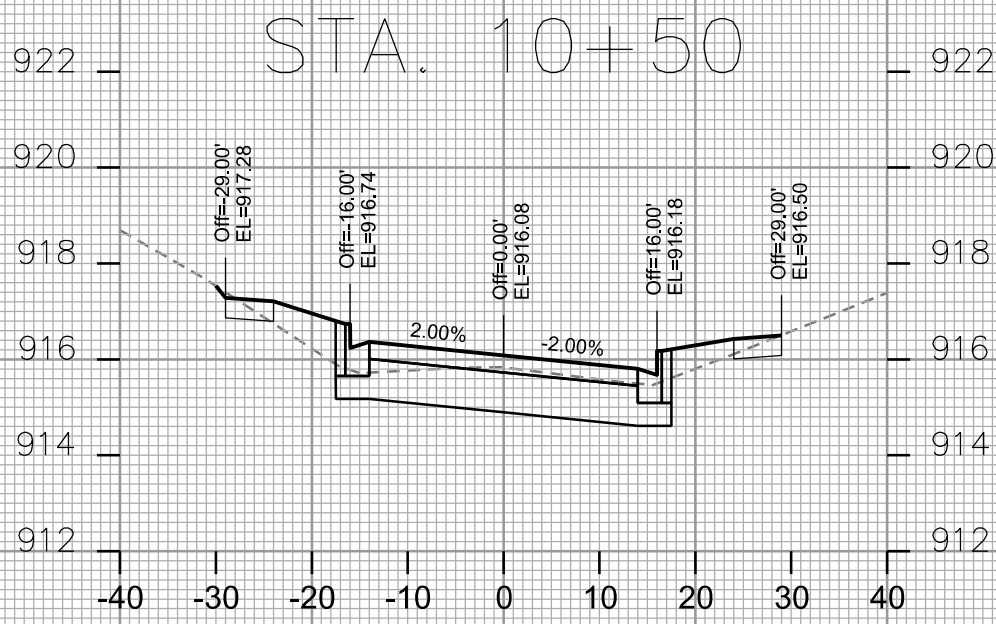
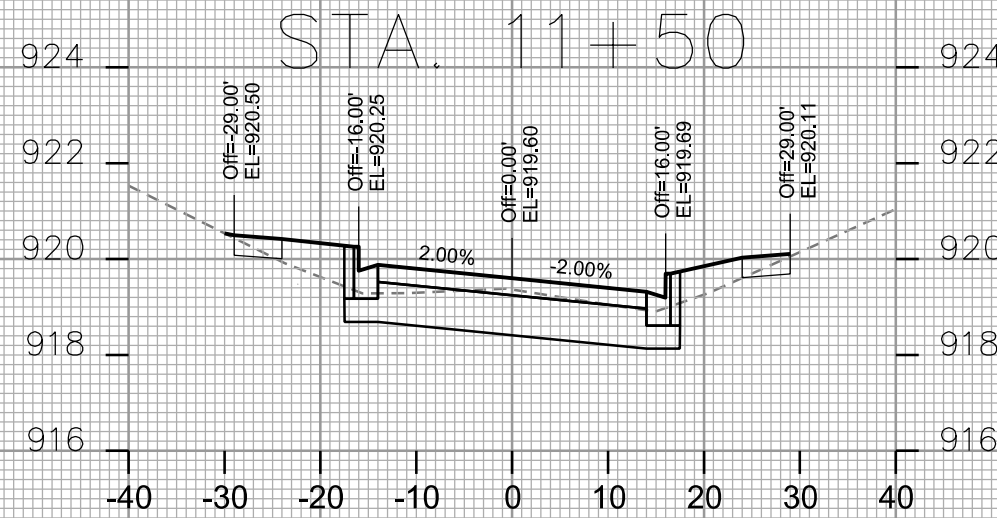
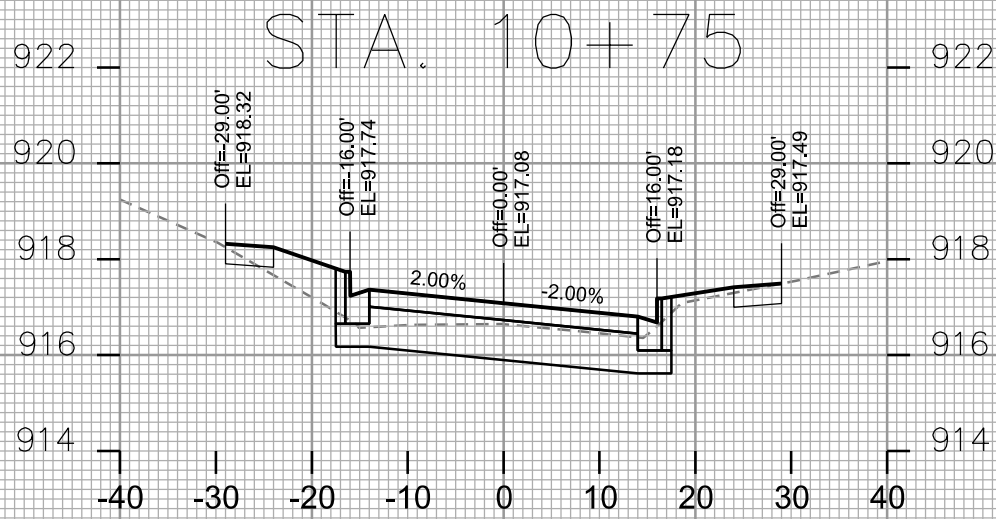
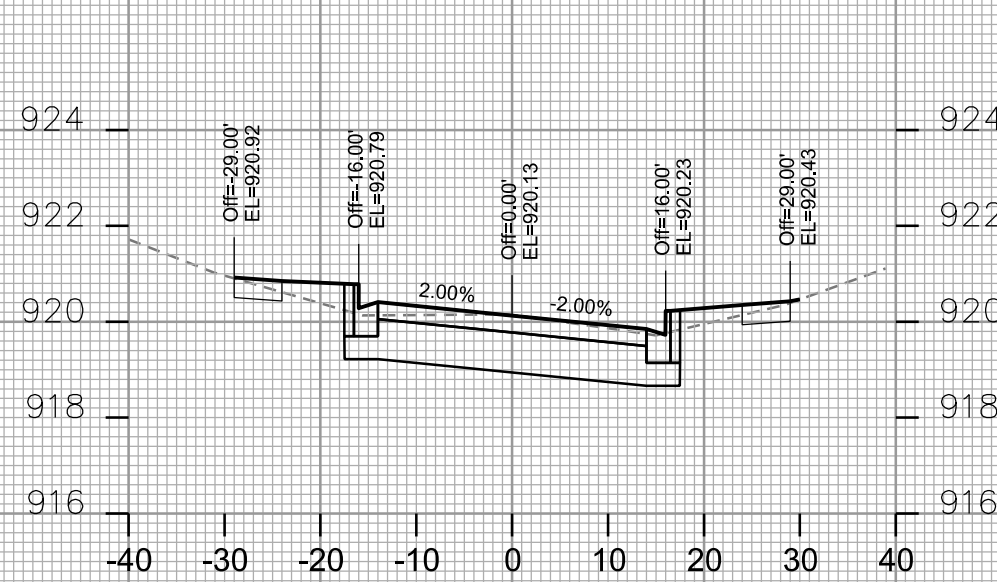
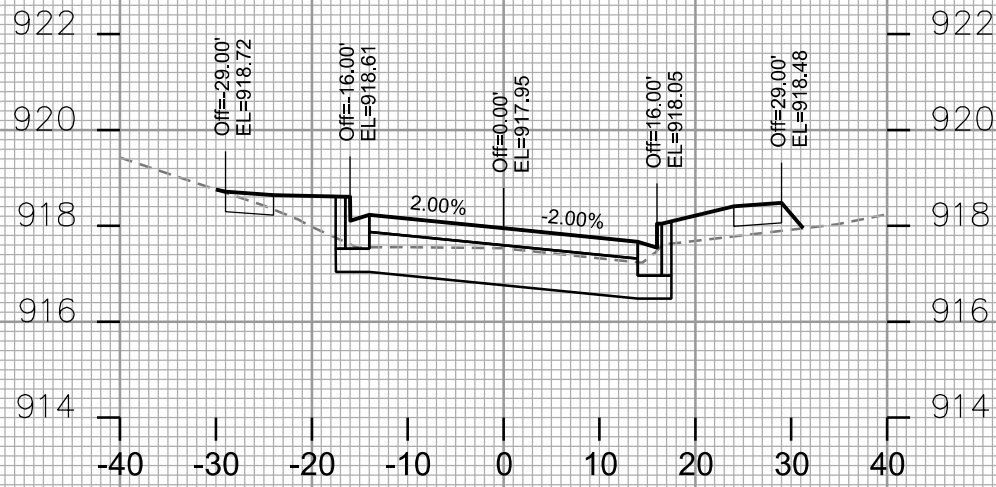
CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

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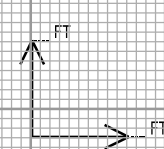
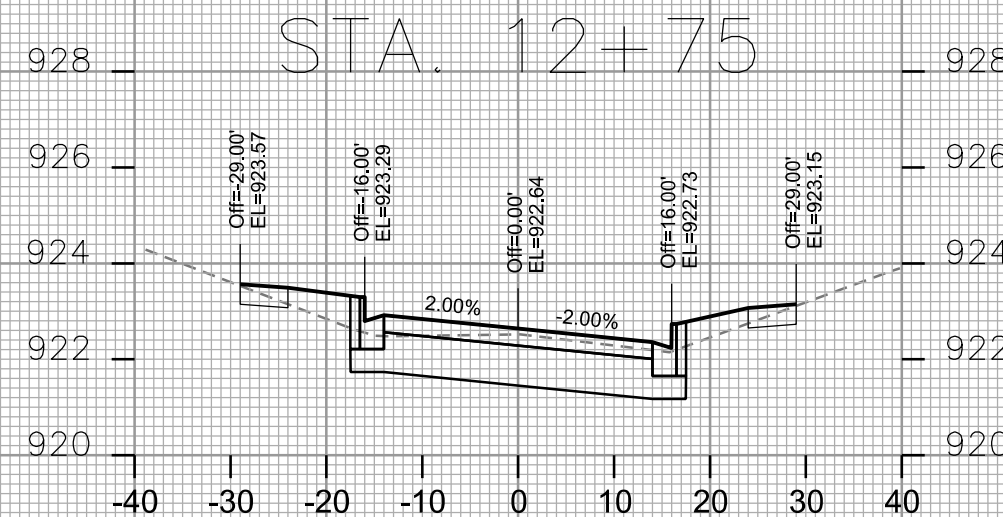
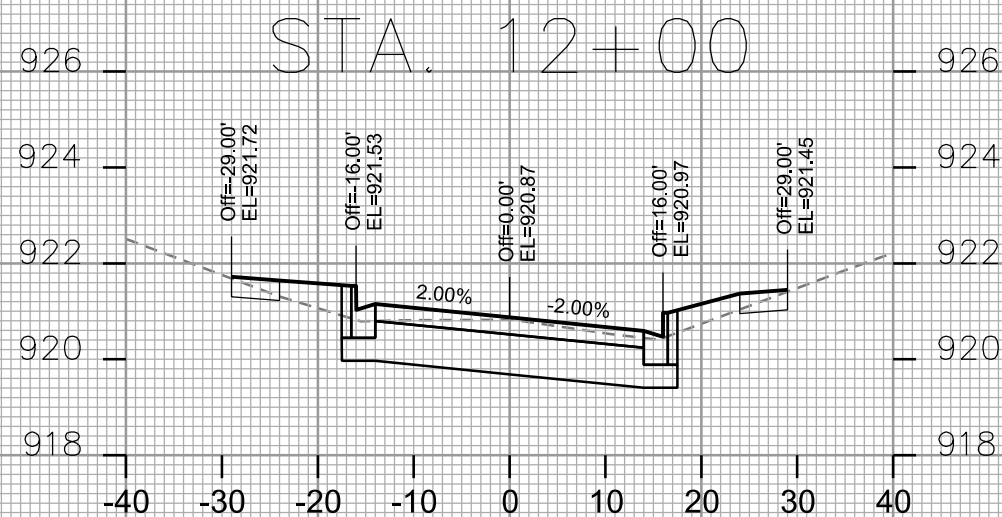
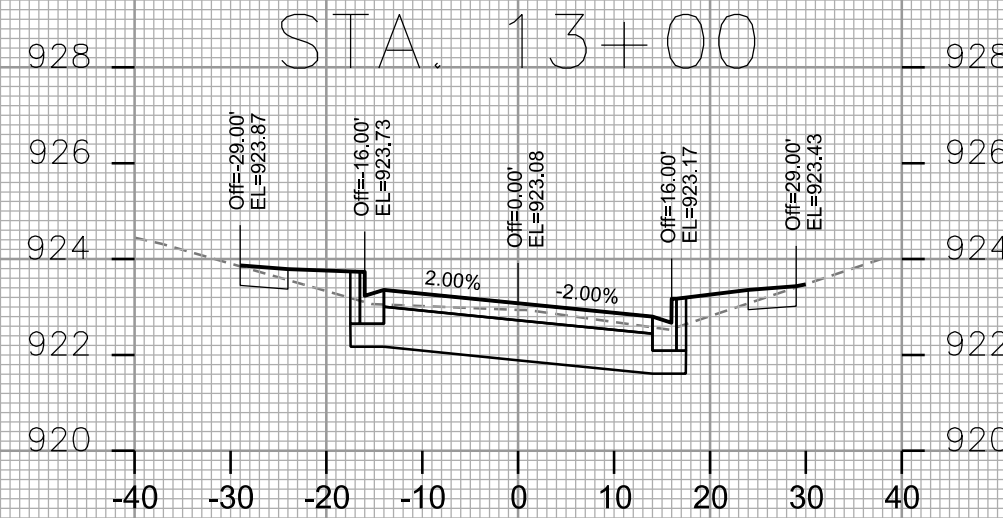
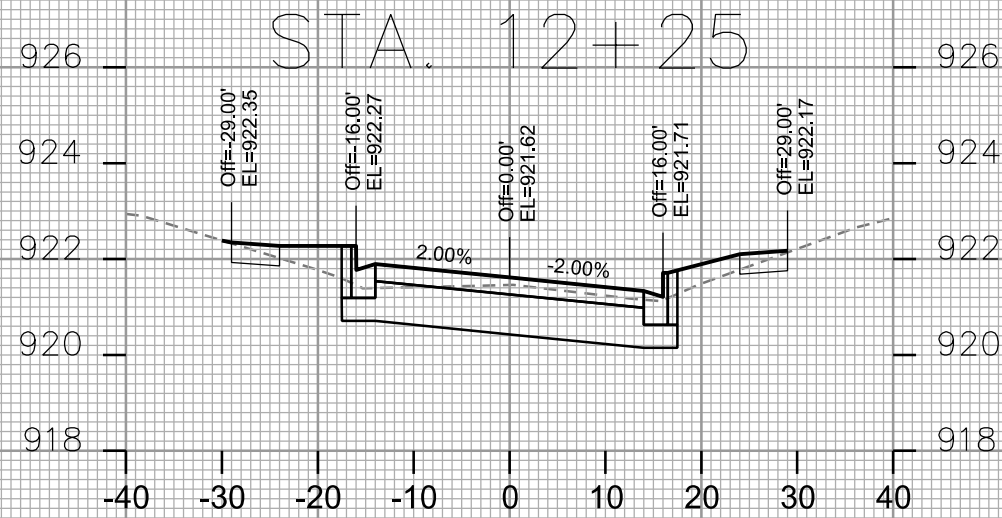
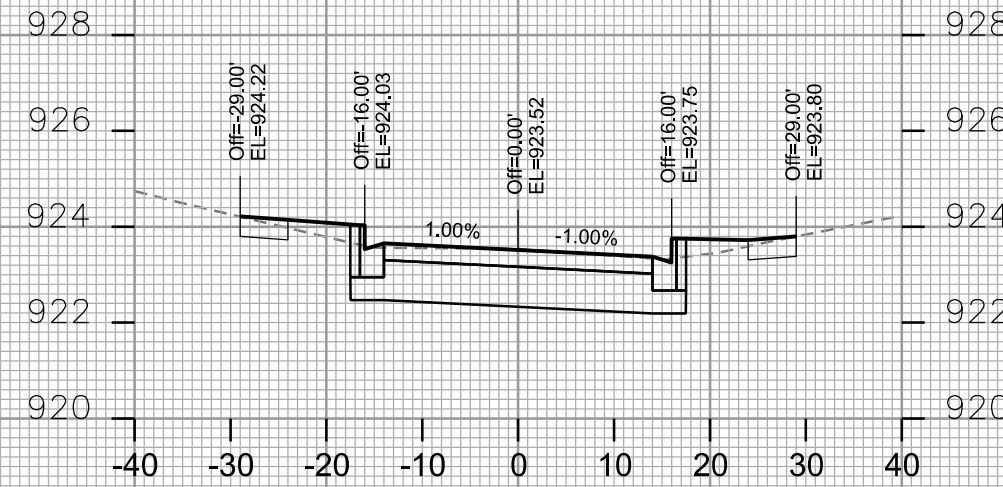
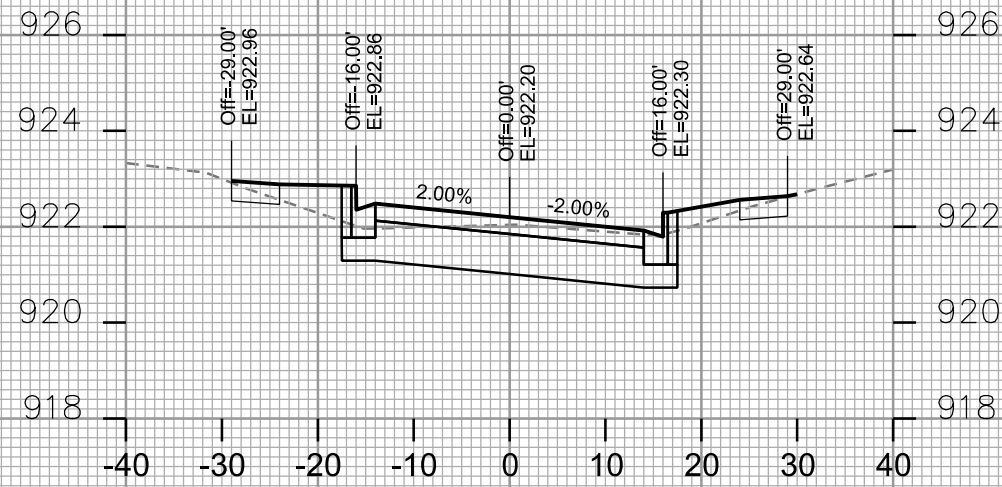
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

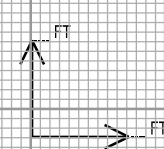
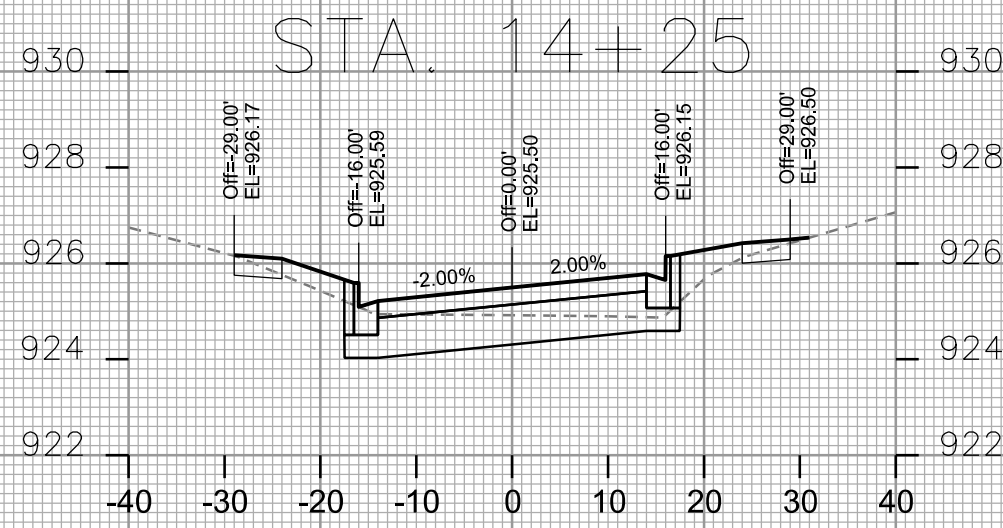
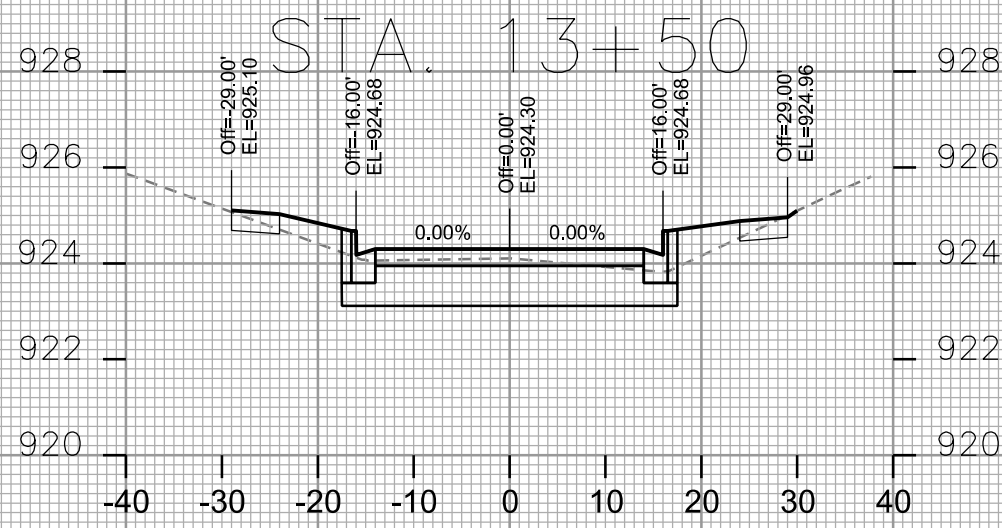
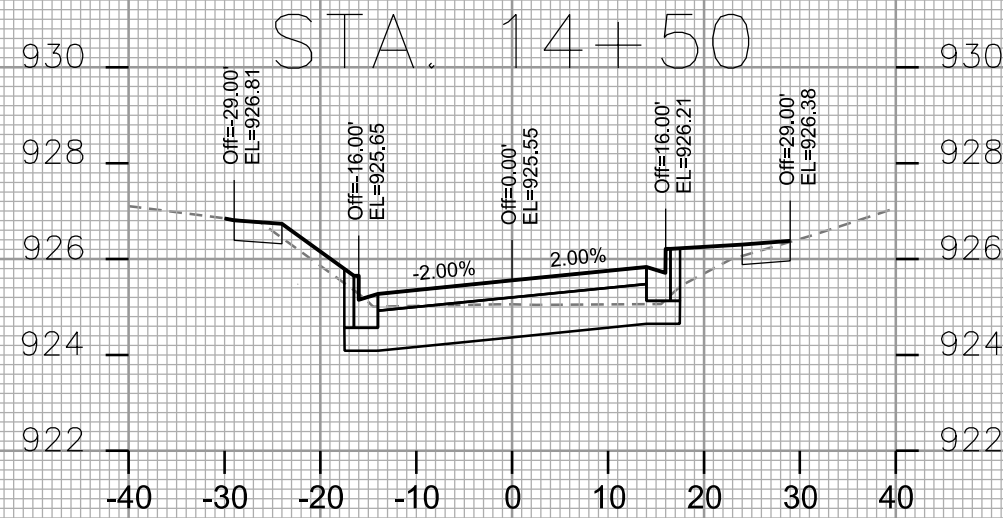
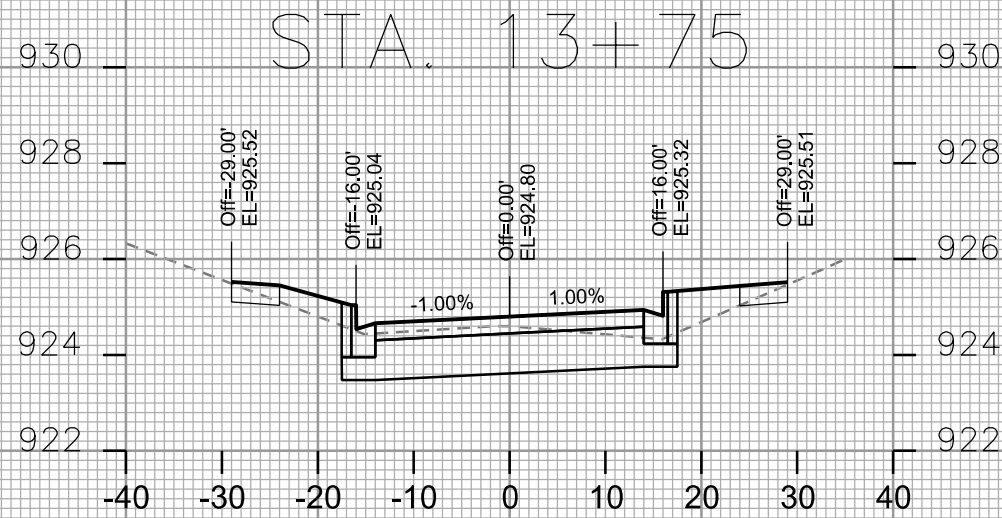
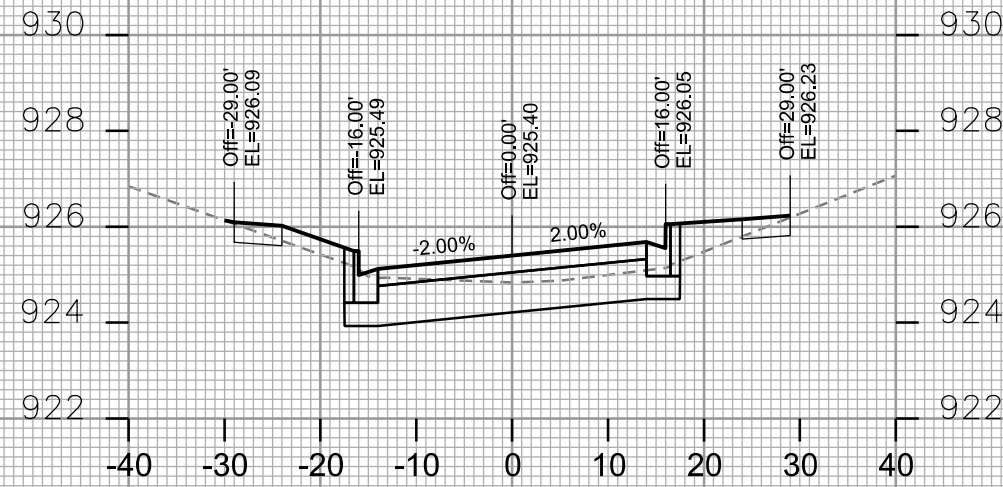
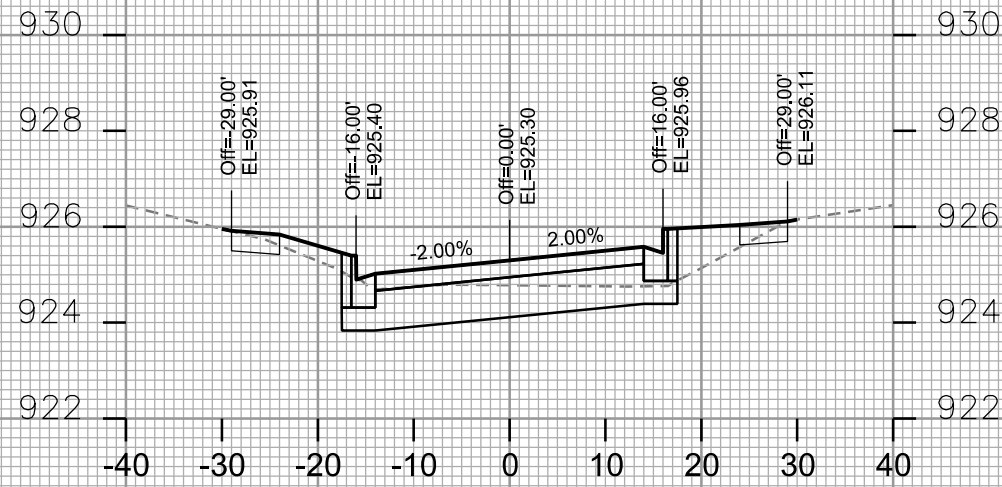
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

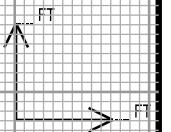
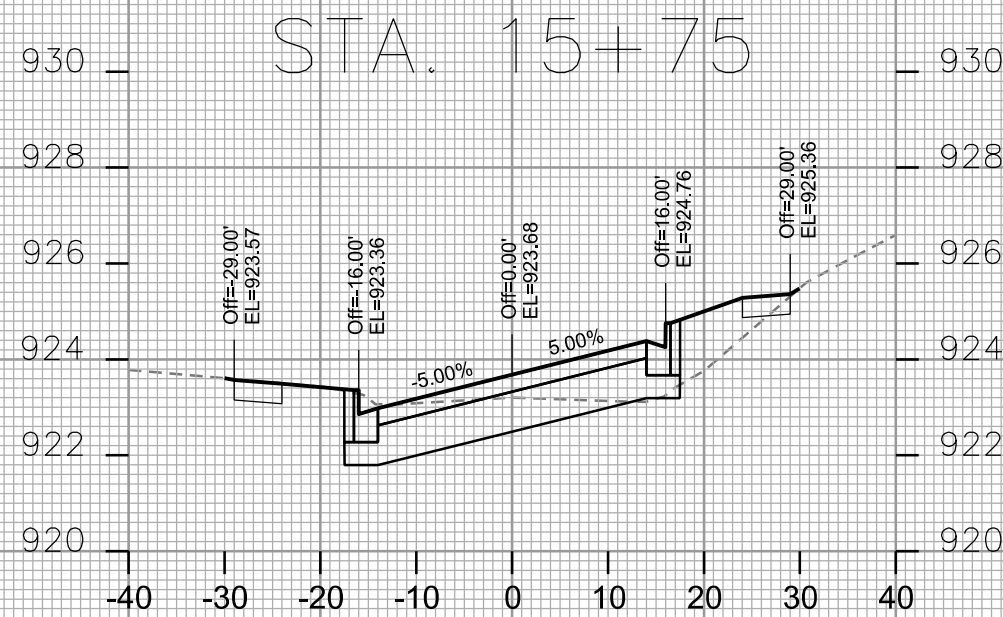
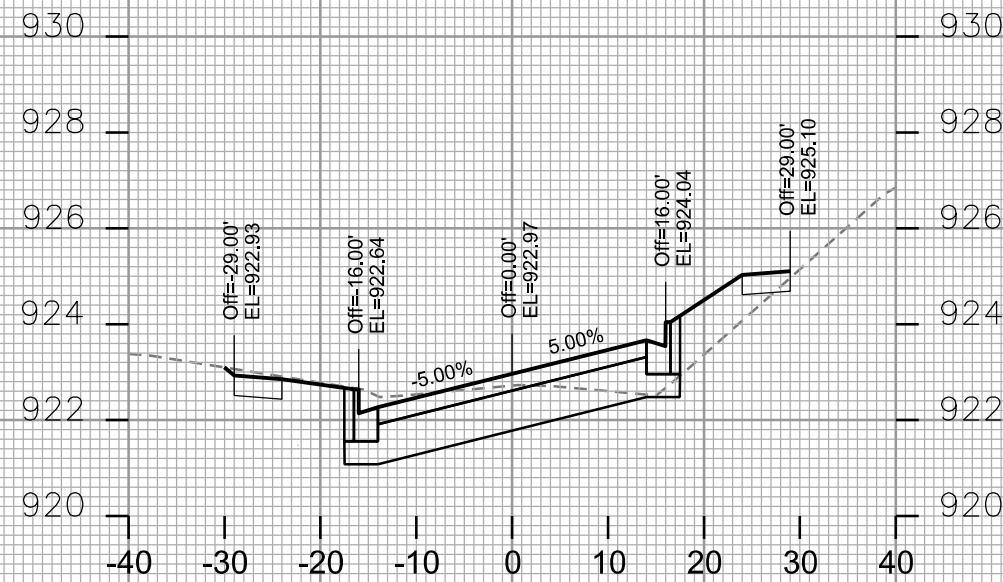
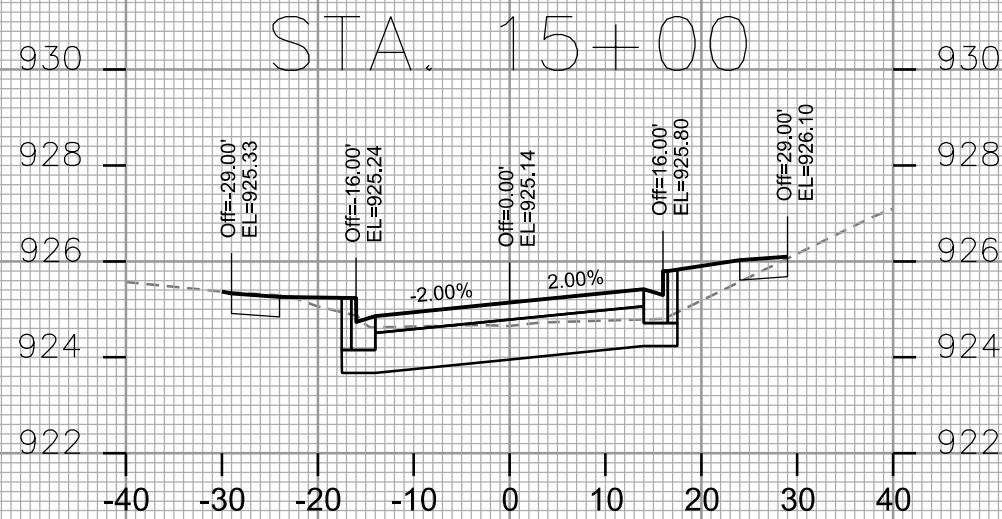
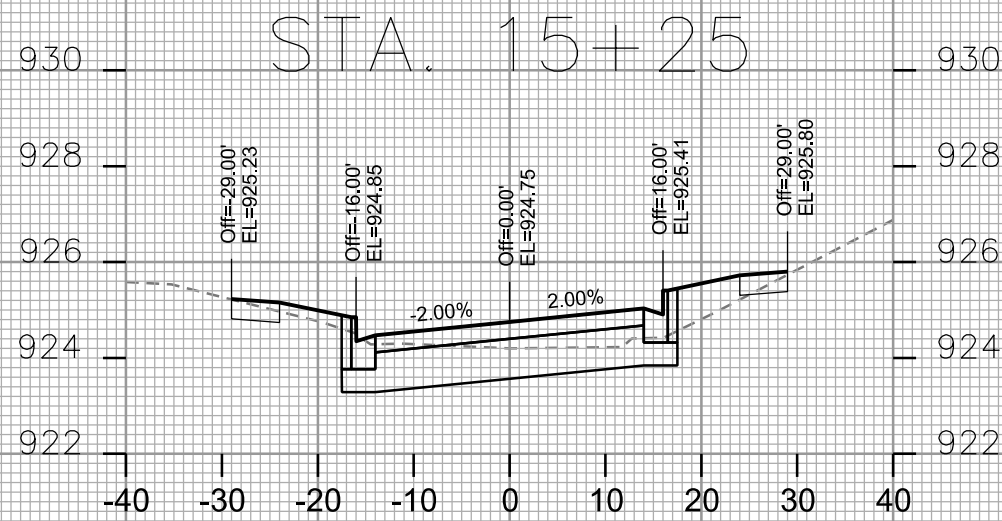
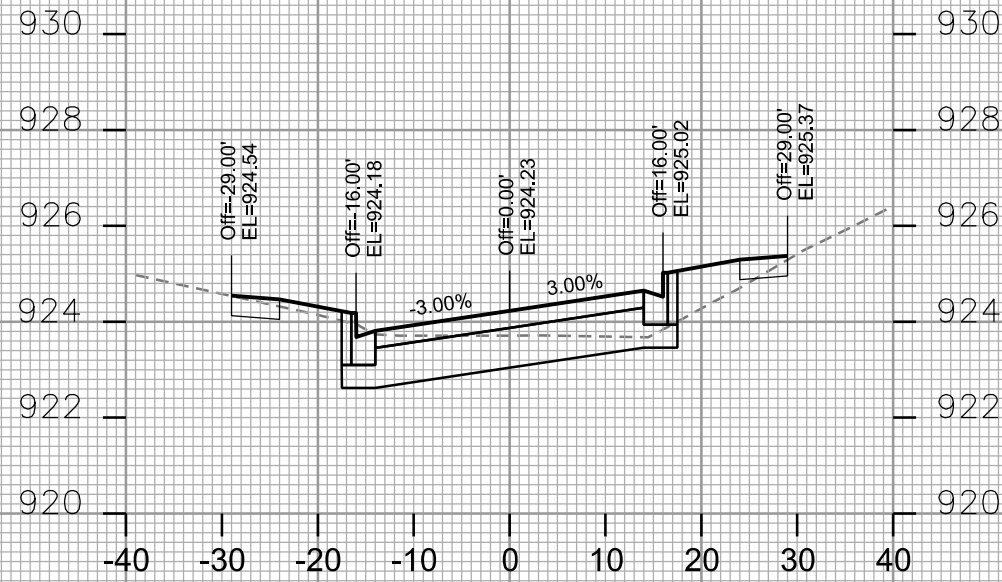
CITY OF MADISON

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CROSS SECTIONS

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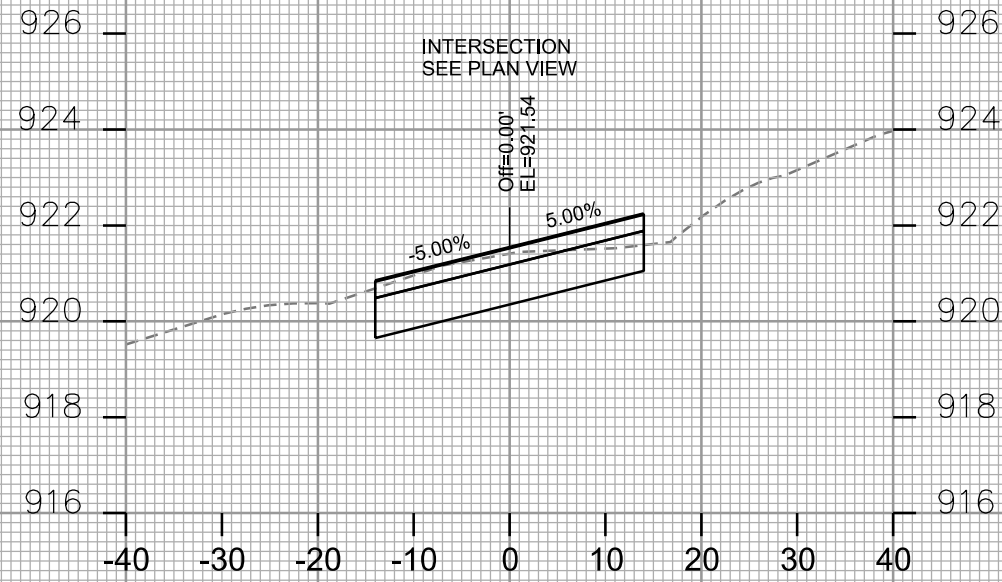
CITY OF MADISON

PLOT SCALE: _____

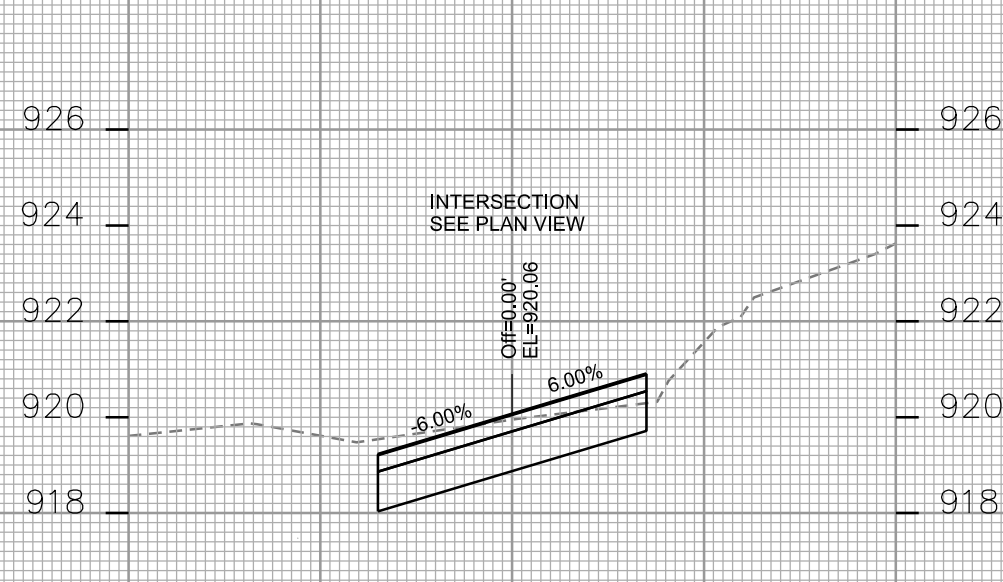
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REV. DATE: _____

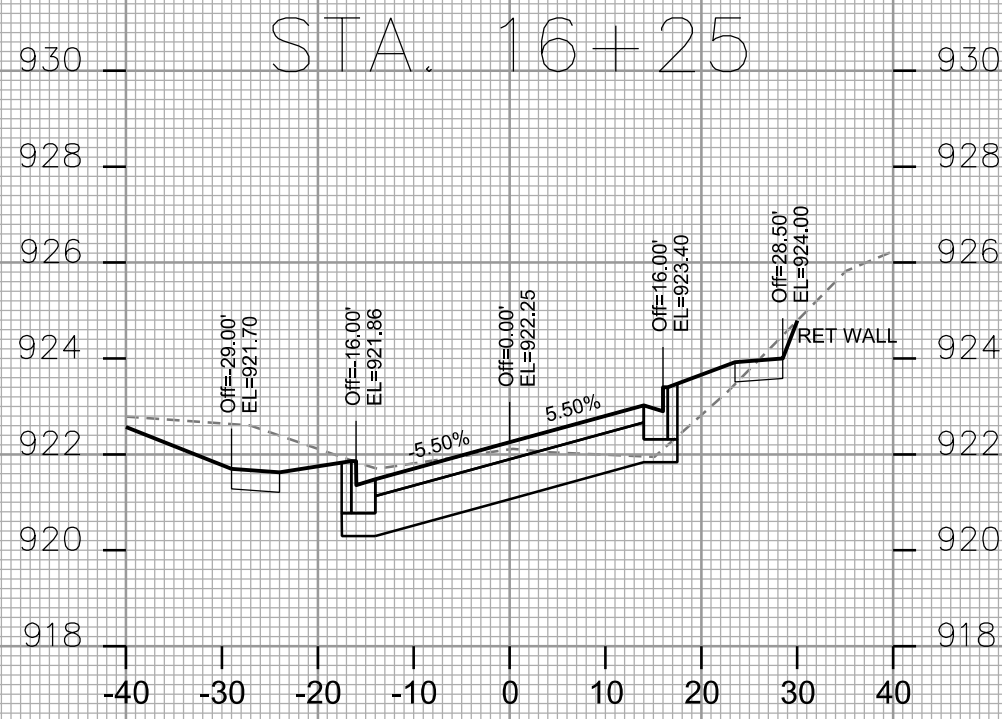
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



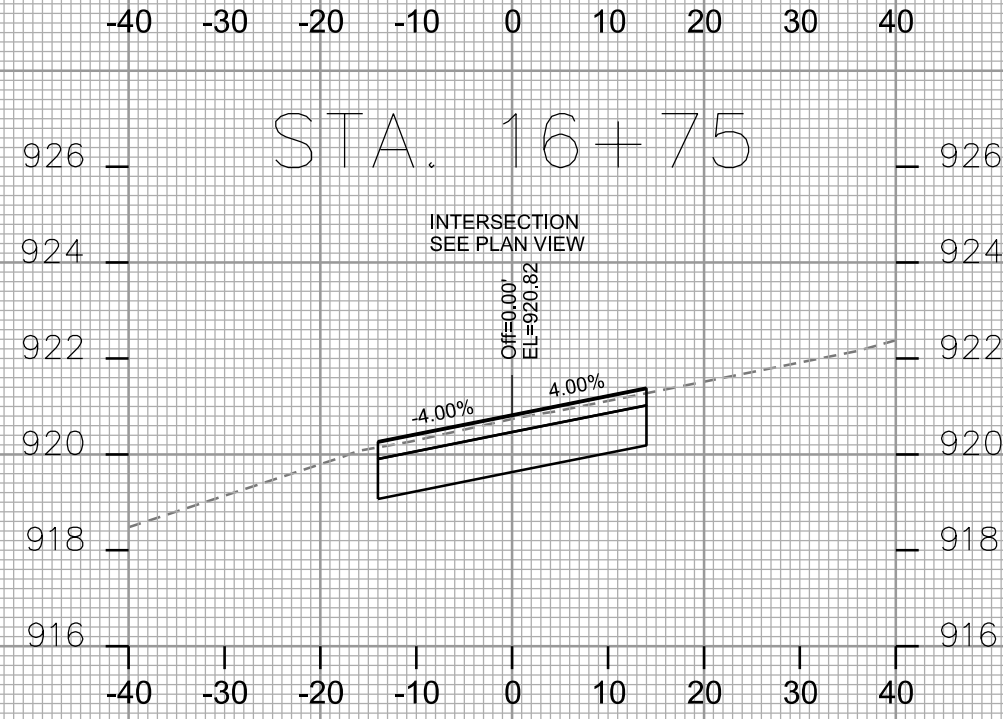
STA. 16+25



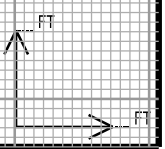
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STA. 16+00



STA. 16+50



CROSS SECTIONS

TURNER AVENUE

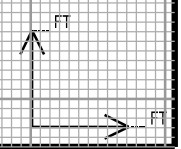
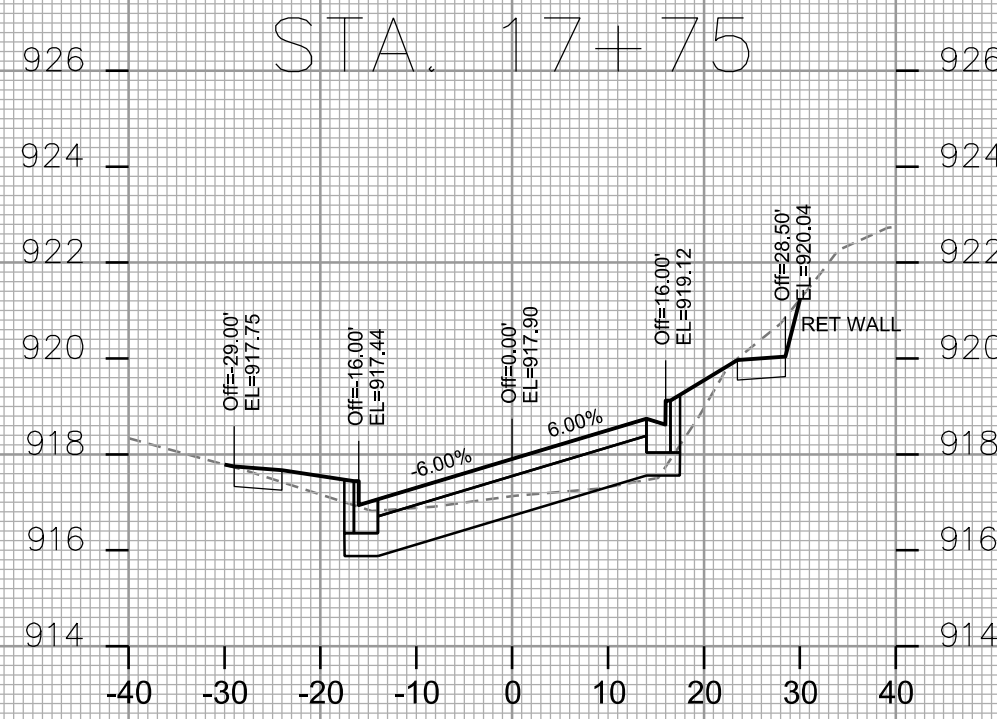
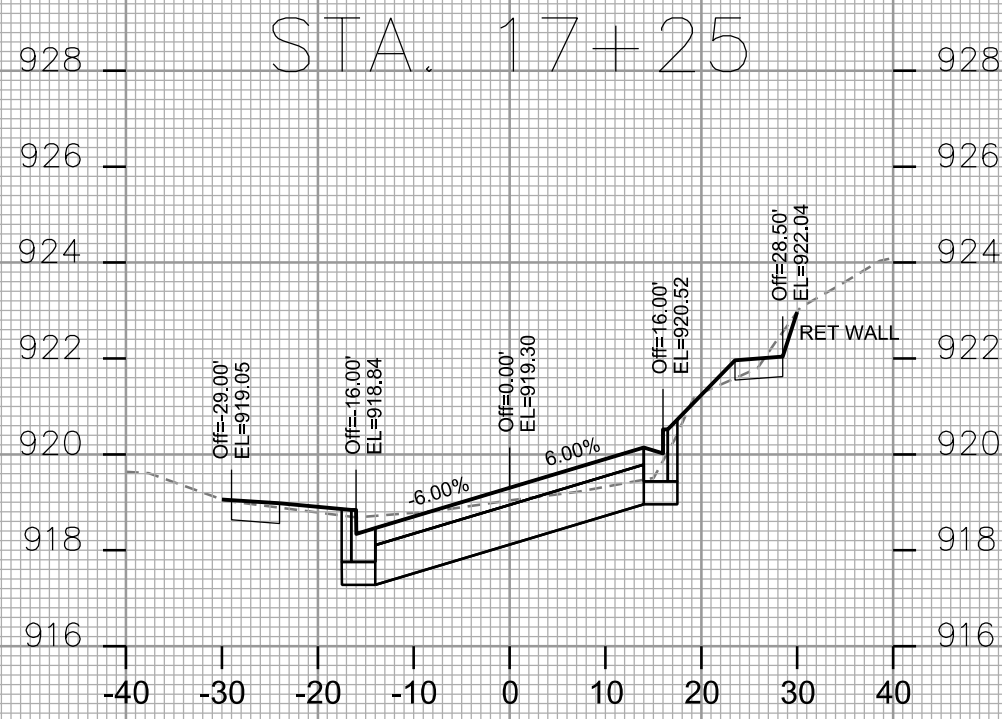
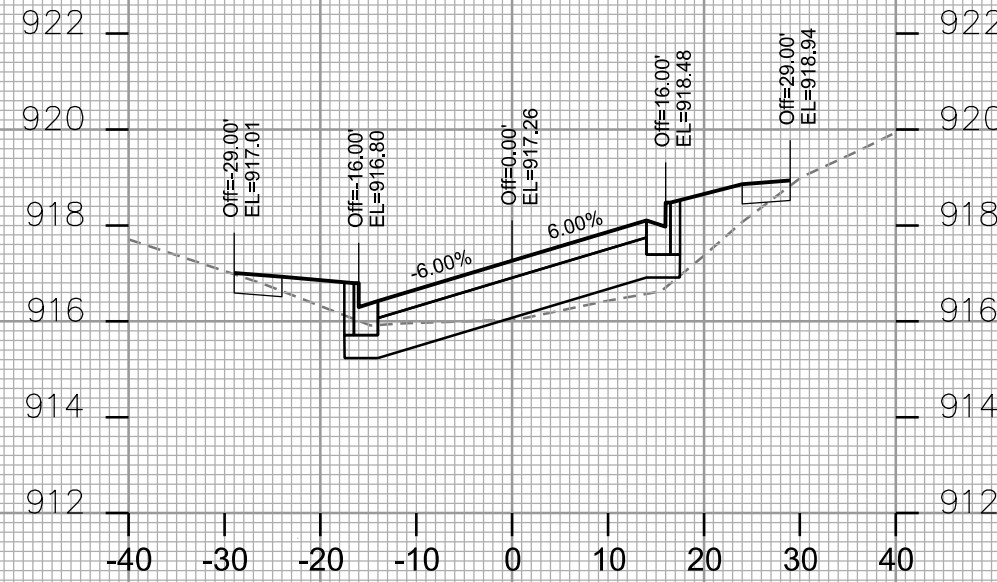
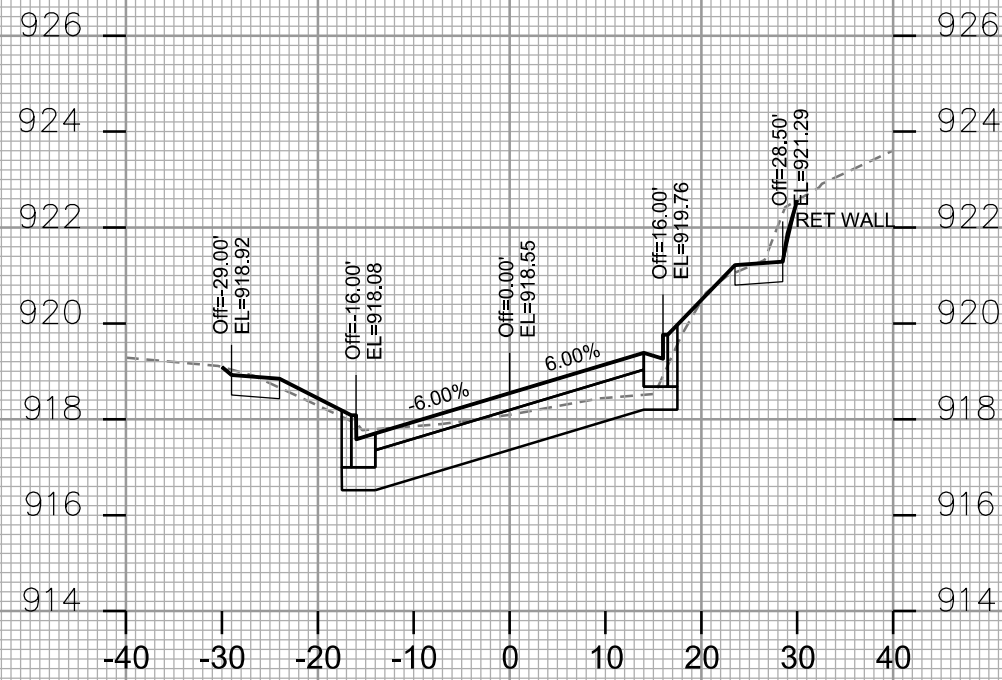
CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

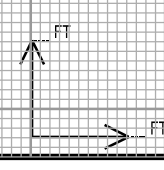
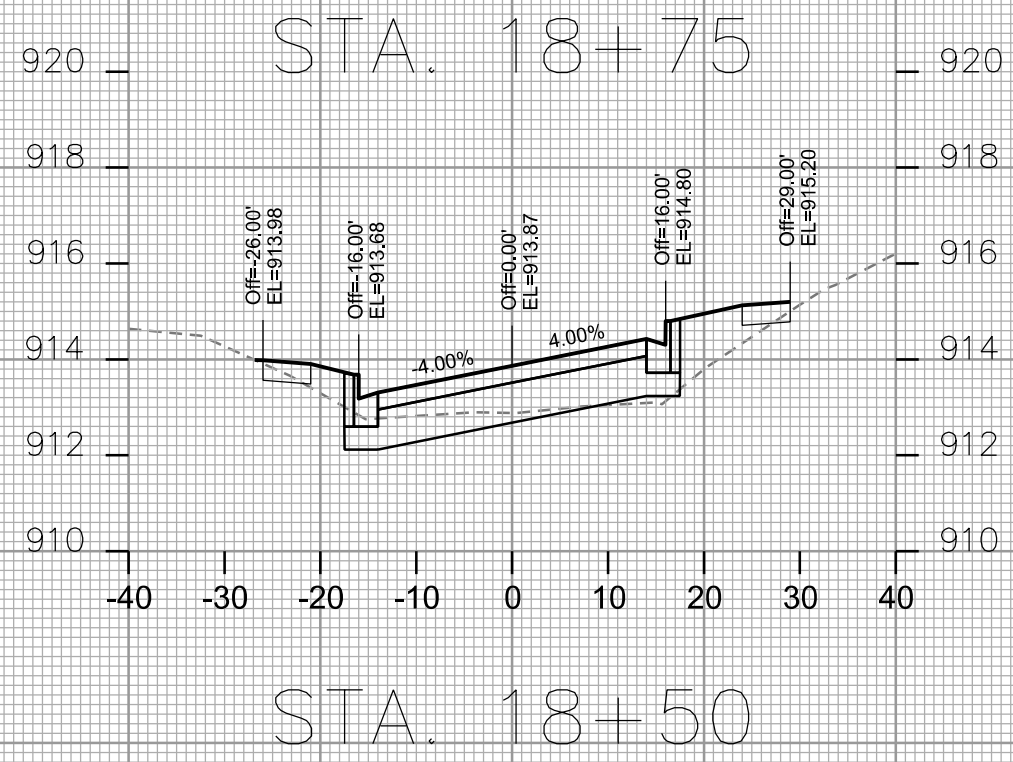
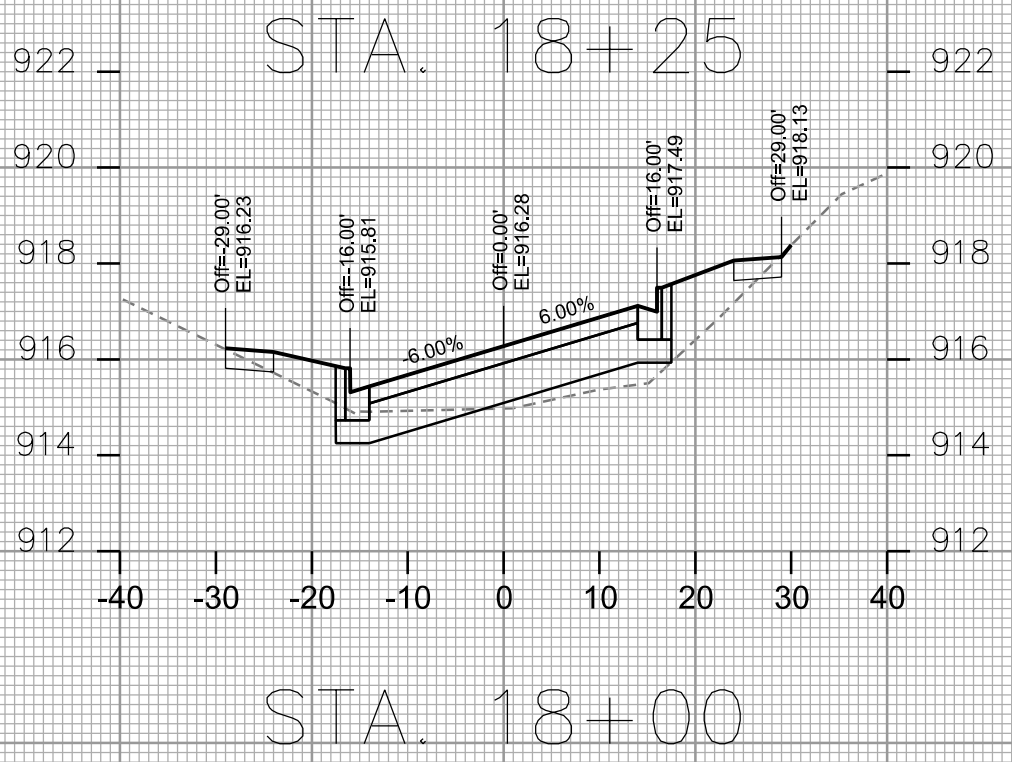
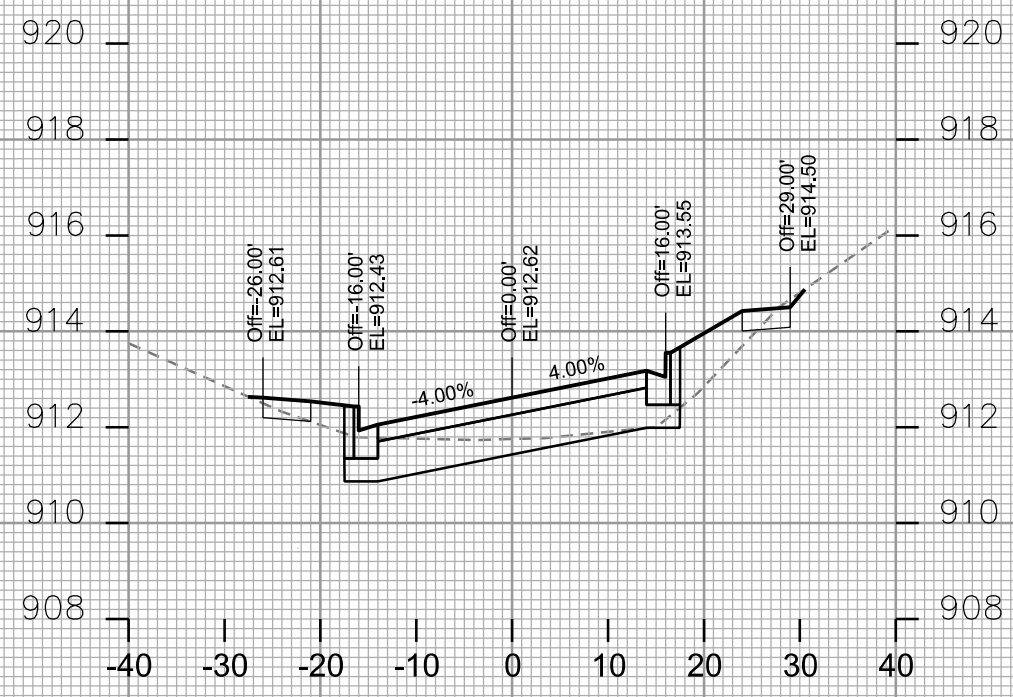
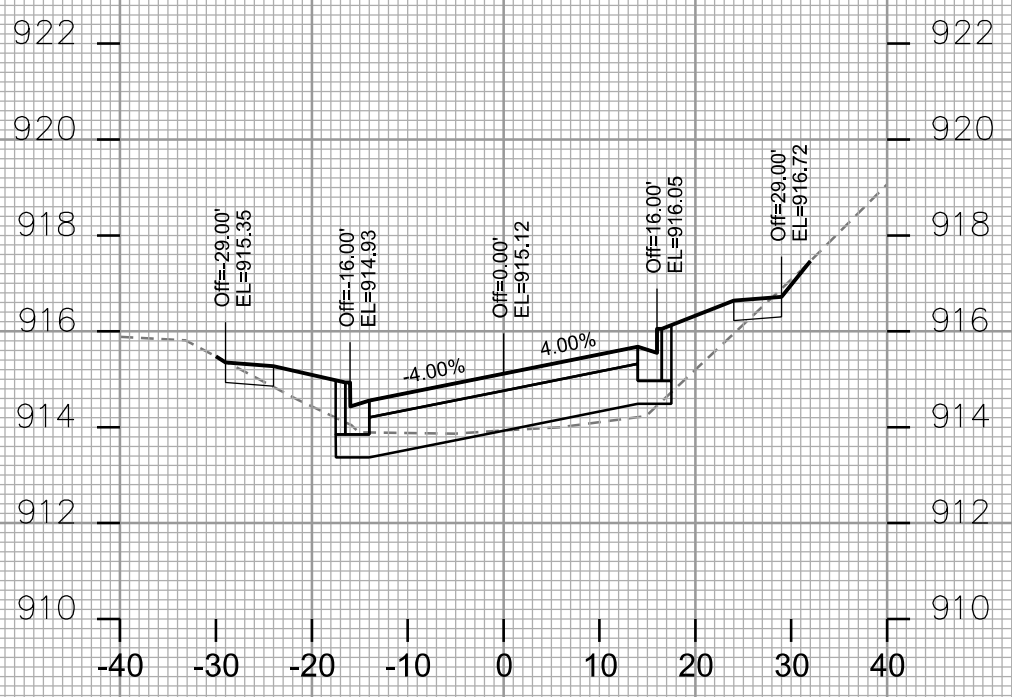
CITY OF MADISON

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CROSS SECTIONS

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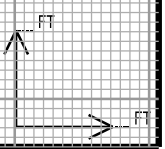
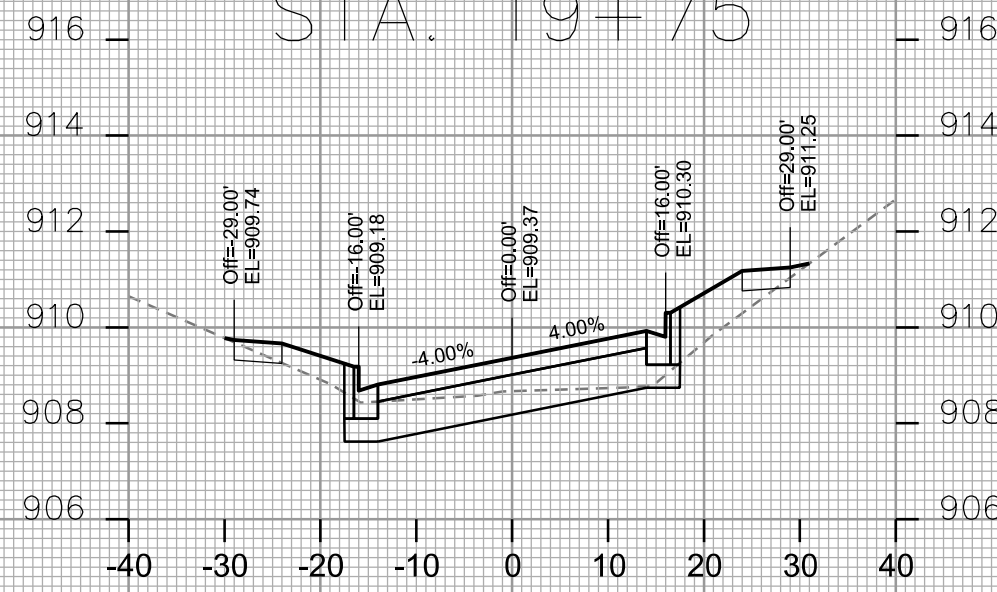
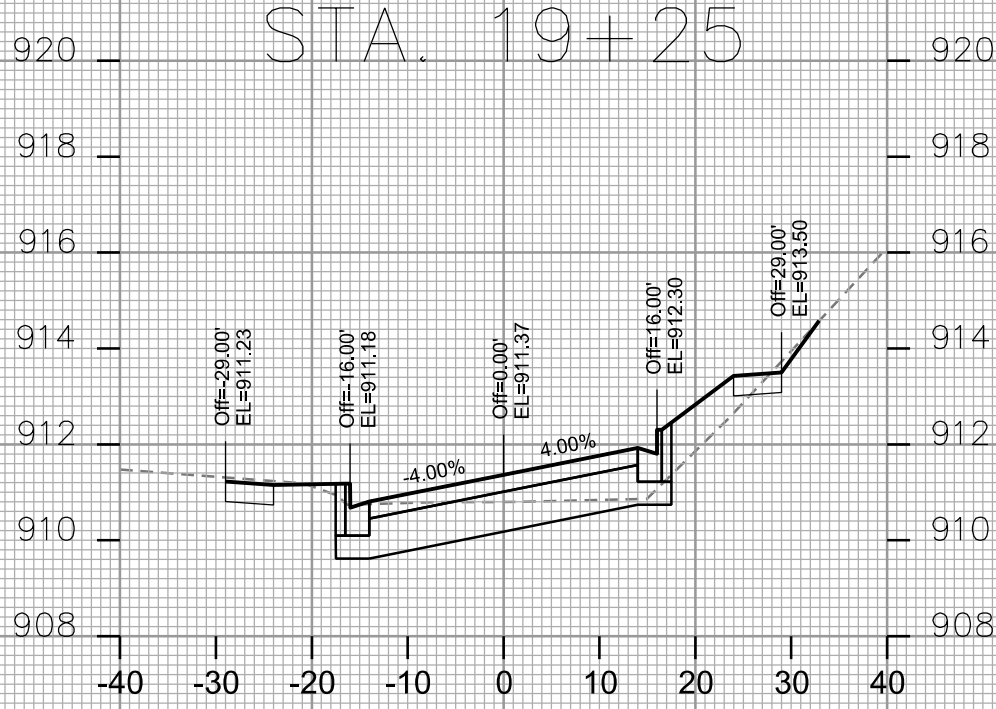
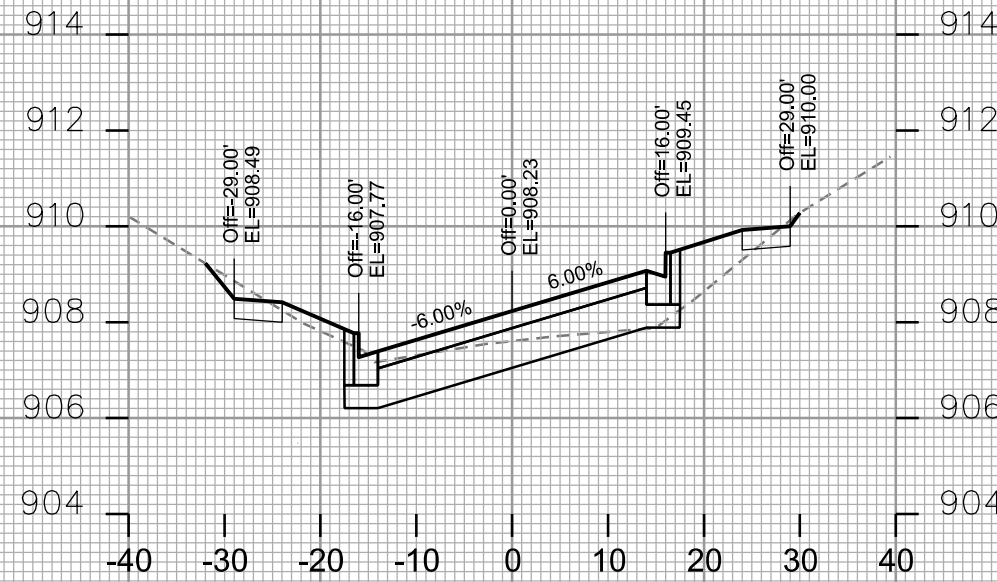
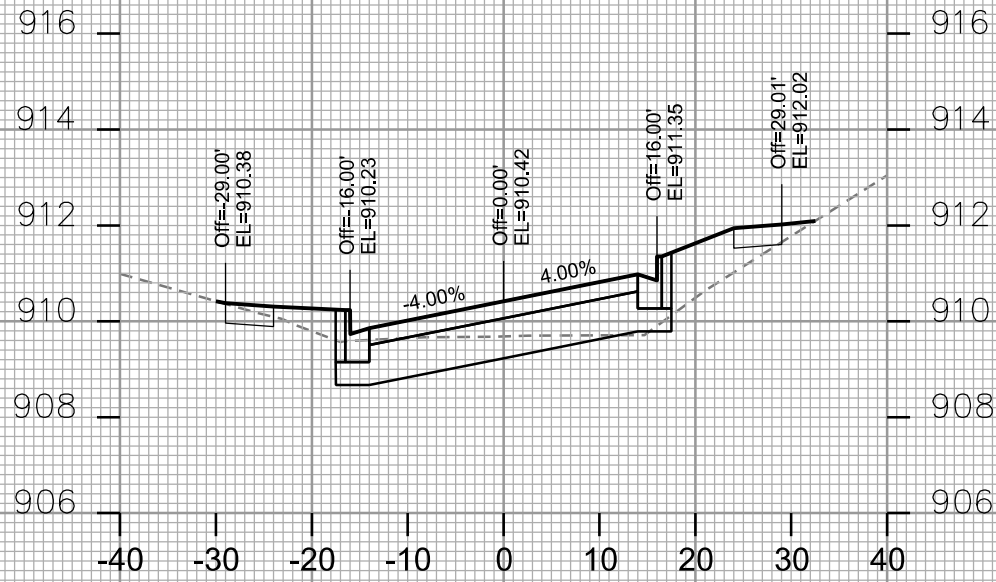
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

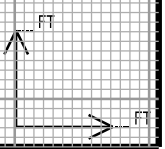
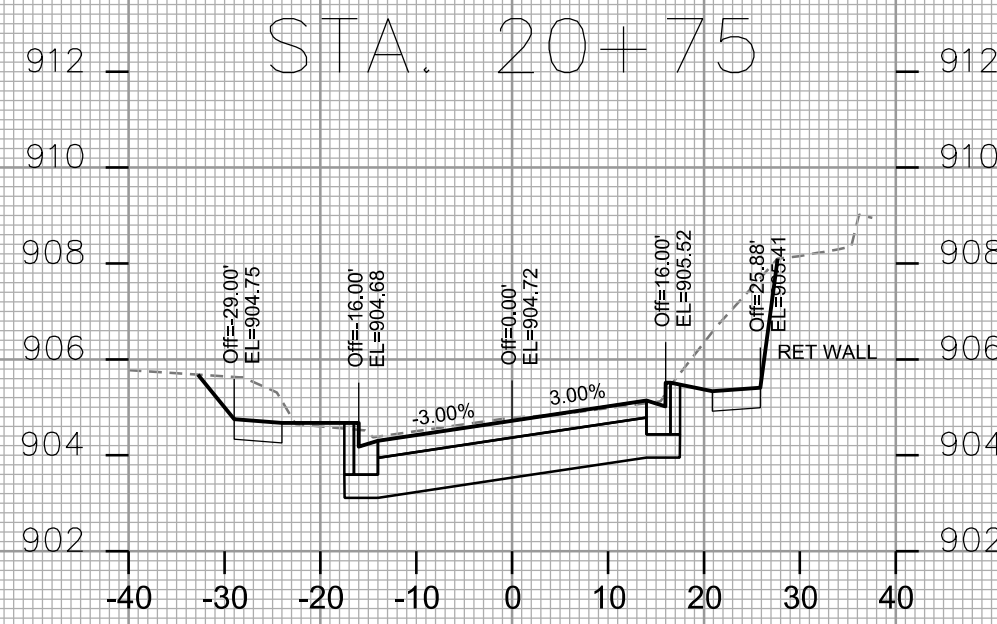
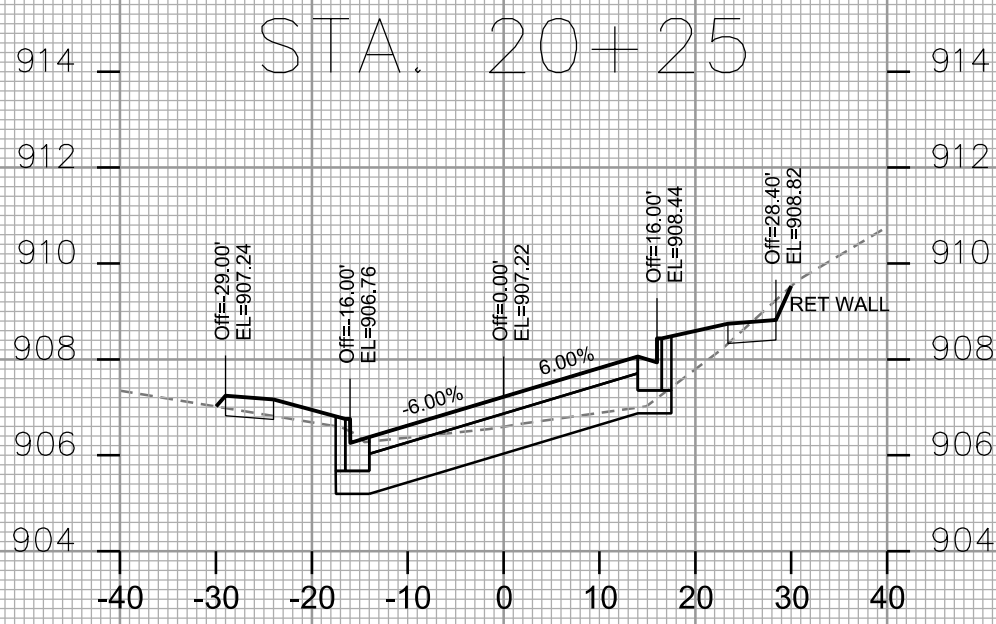
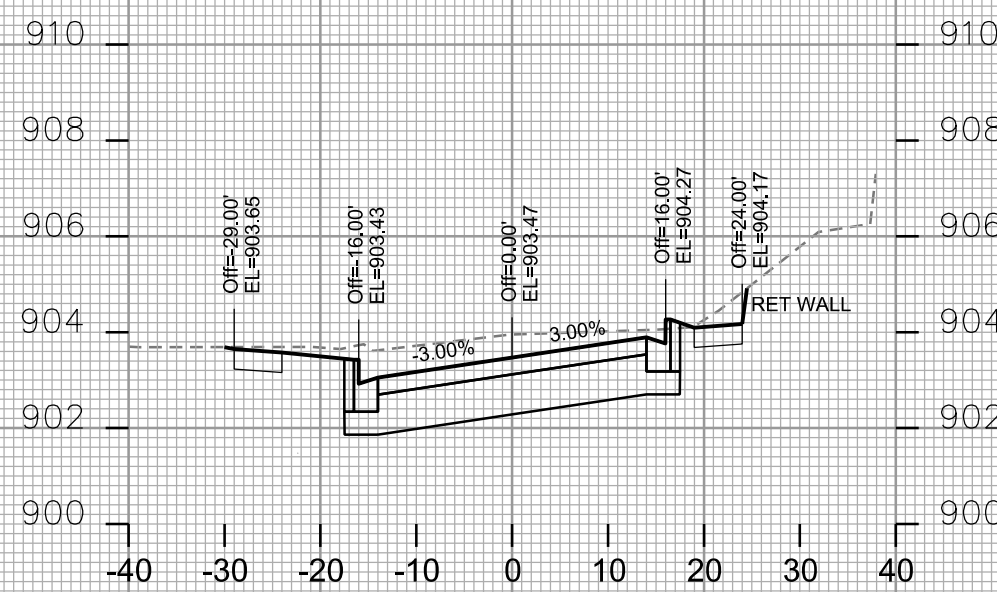
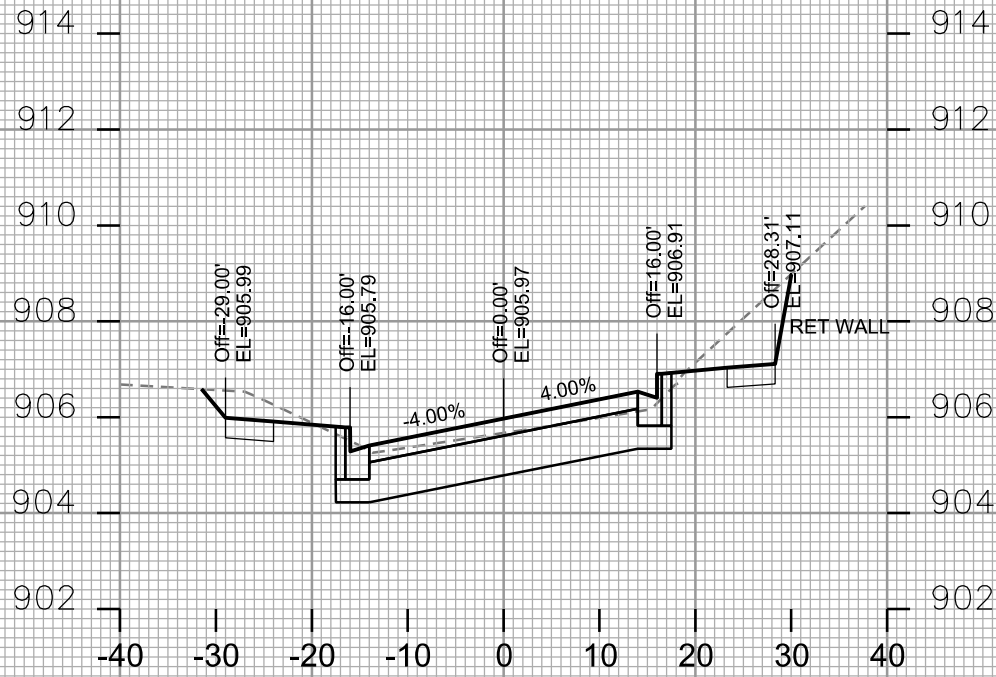
CITY OF MADISON

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CROSS SECTIONS

TURNER AVENUE

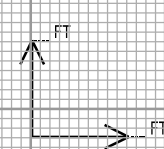
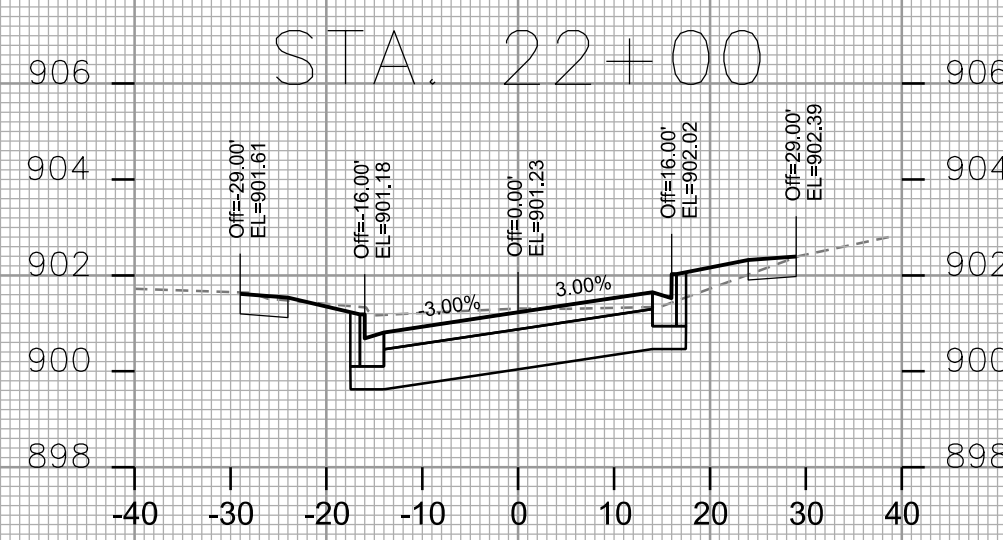
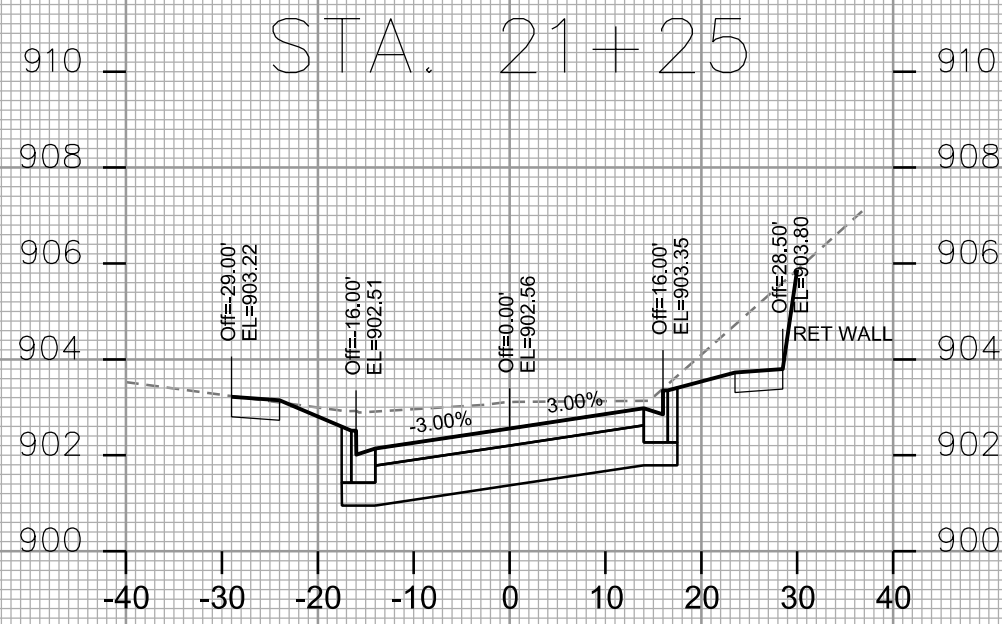
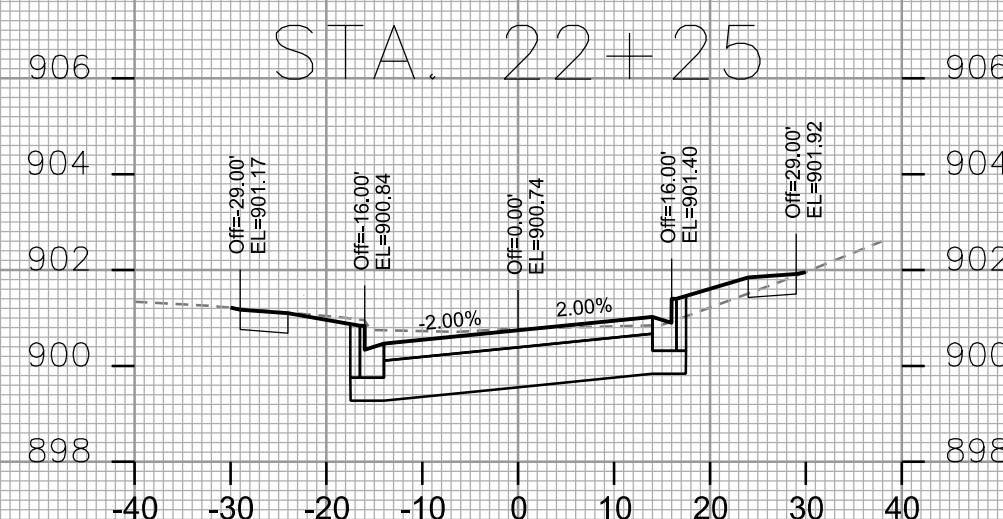
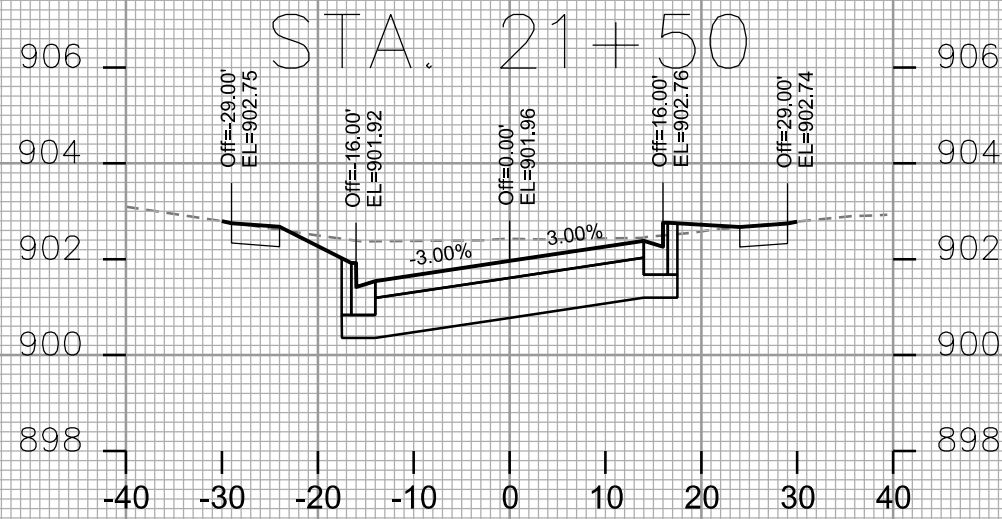
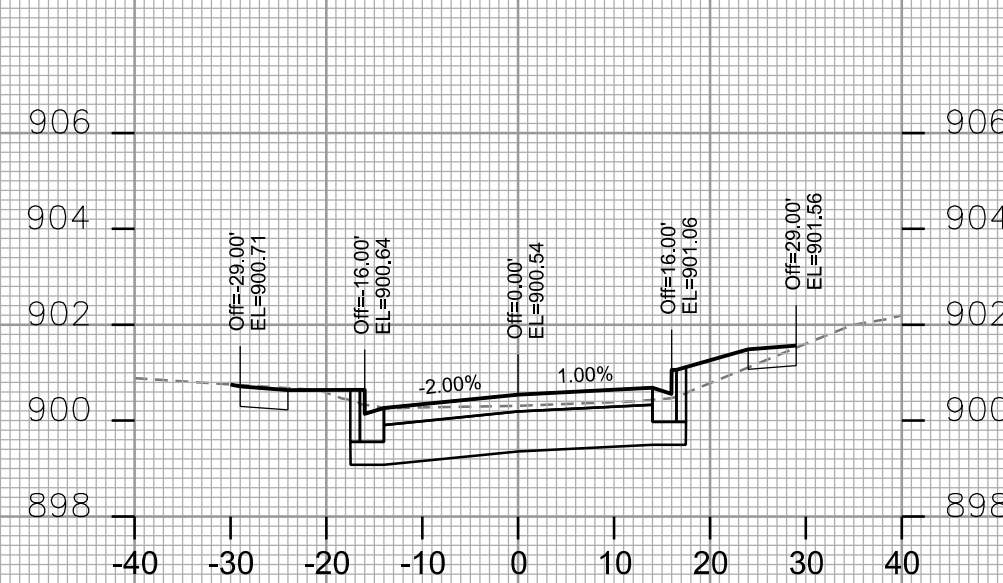
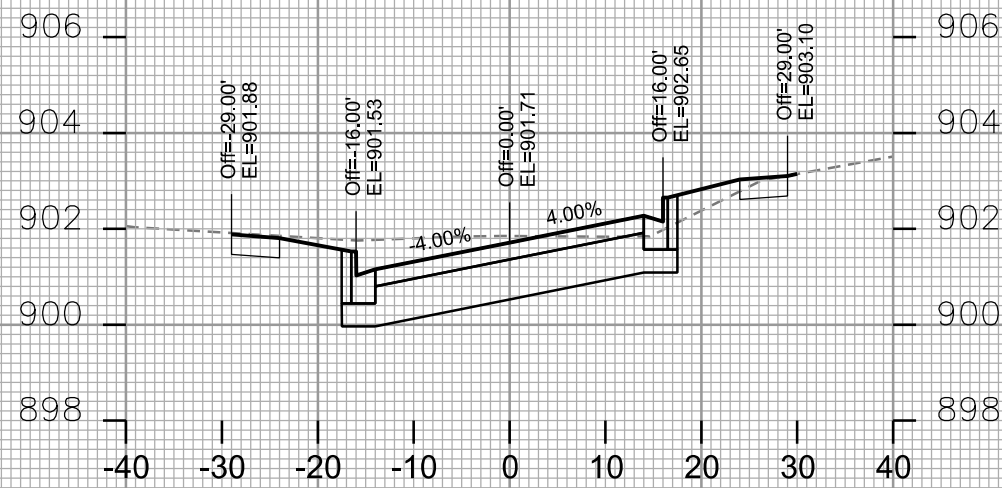
CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



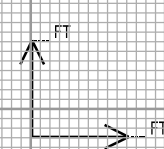
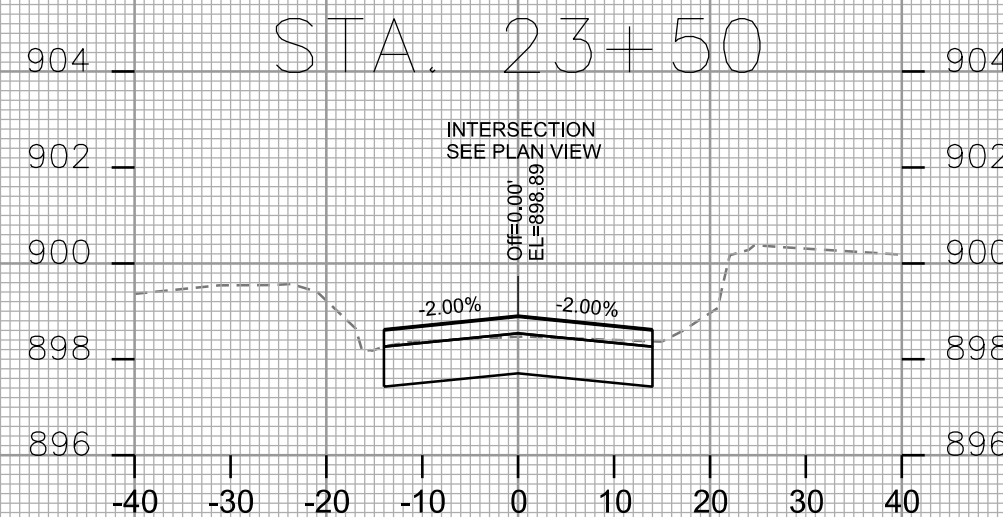
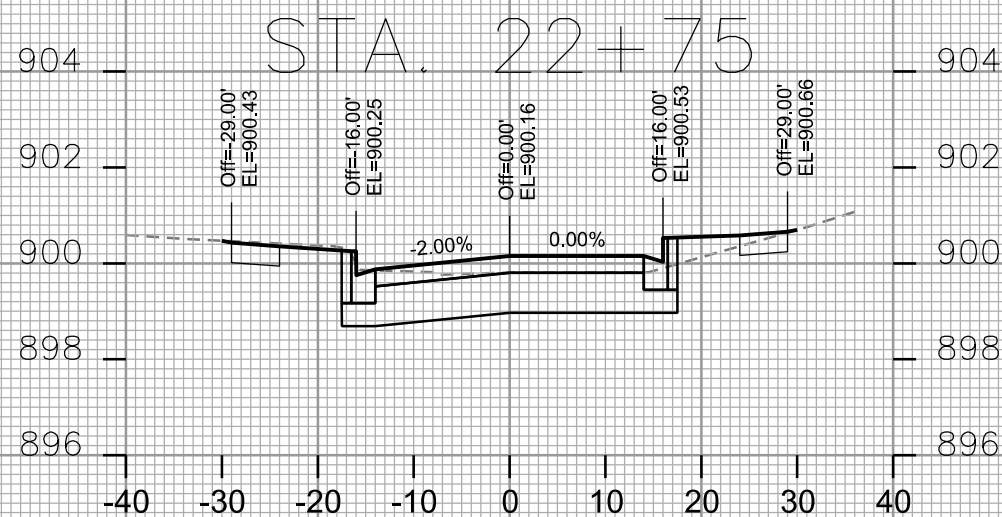
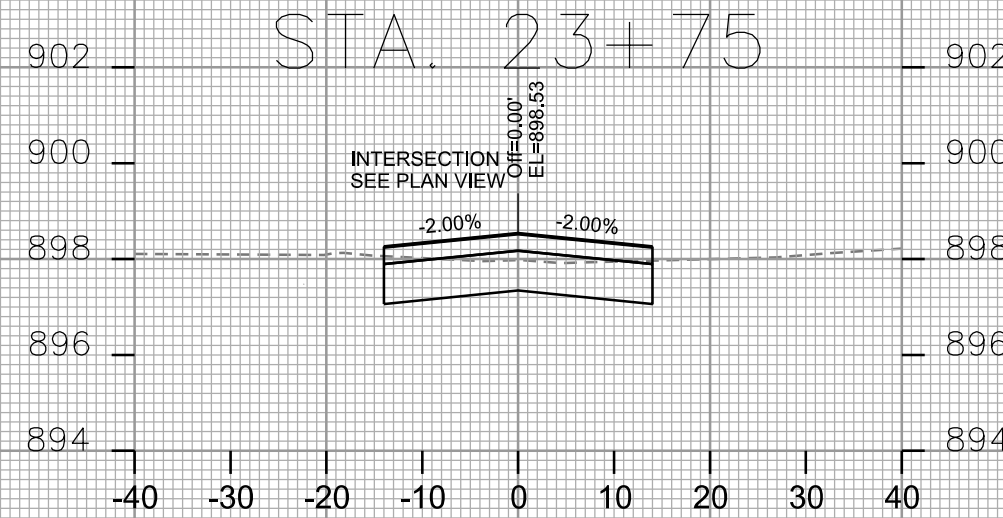
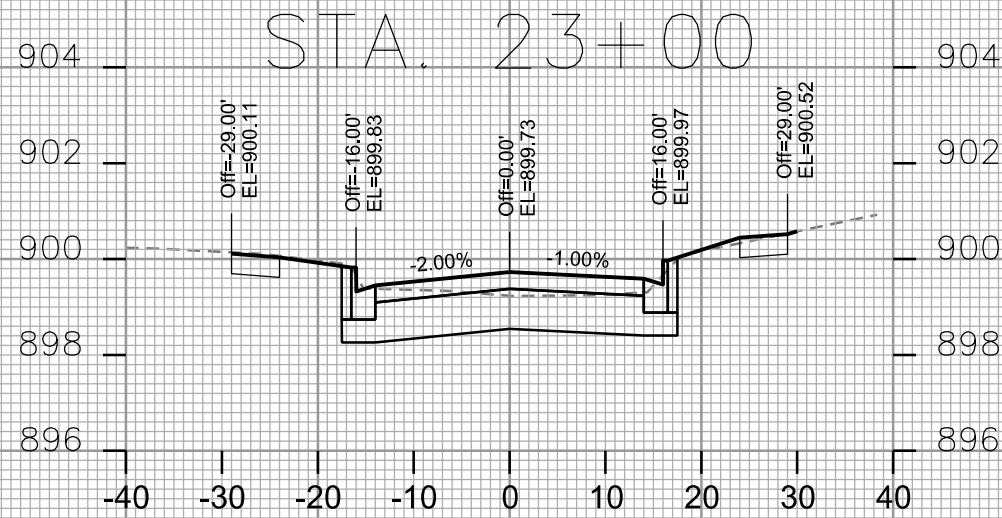
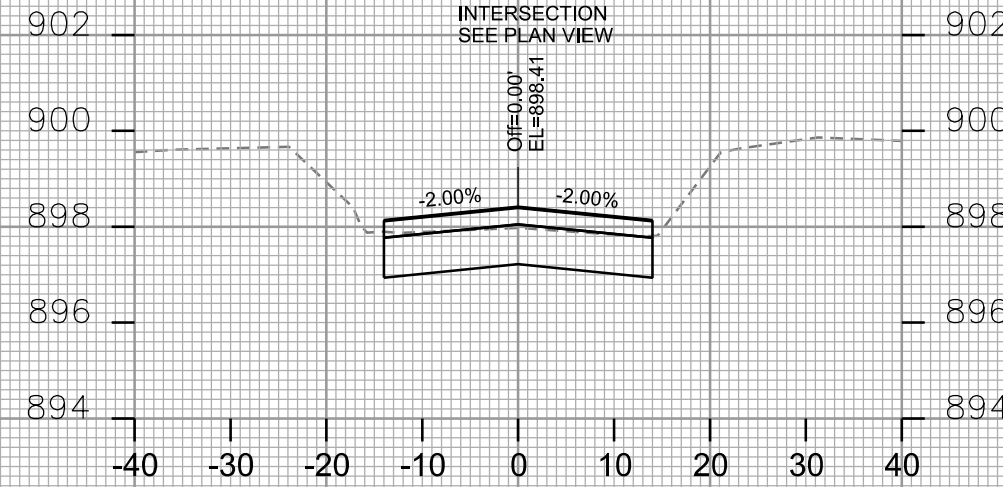
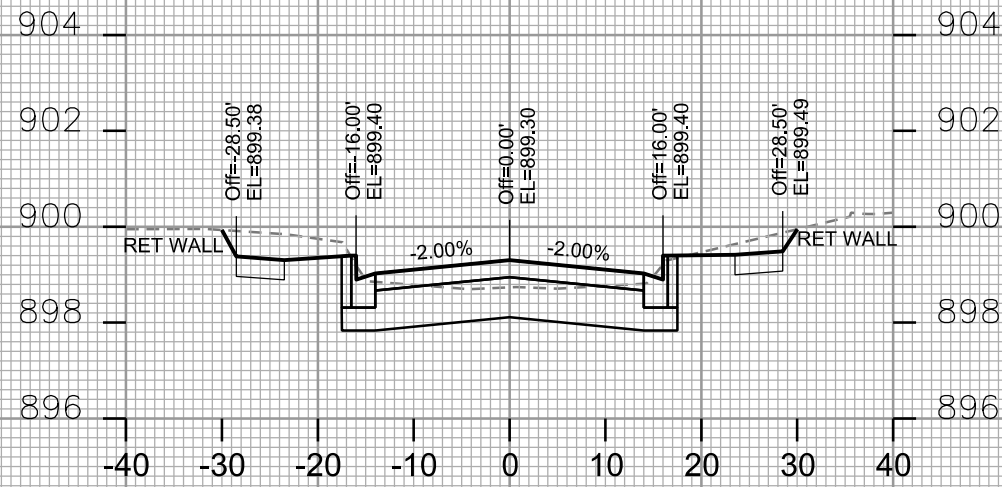
CROSS SECTIONS
TURNER AVENUE CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

TURNER AVENUE

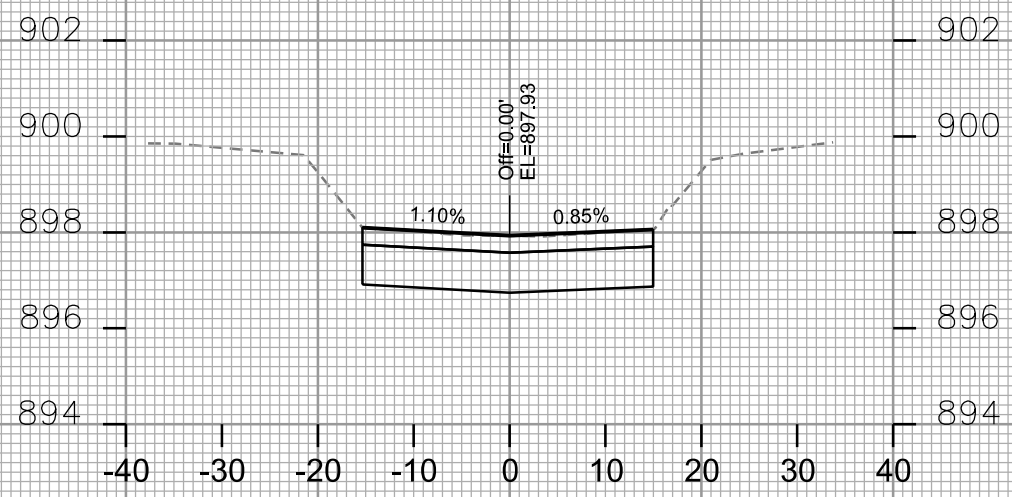
CITY OF MADISON

PLOT SCALE: _____

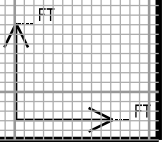
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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



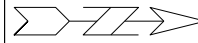
STA. 24+00



WARNER PARK METER ENCLOSURE
PLAN DRAWING

N SHERMAN AVE MADISON WATER UTILITY

NOTE: SEE SHEET M-2 FOR PLAN DIMENSION
DETAILS



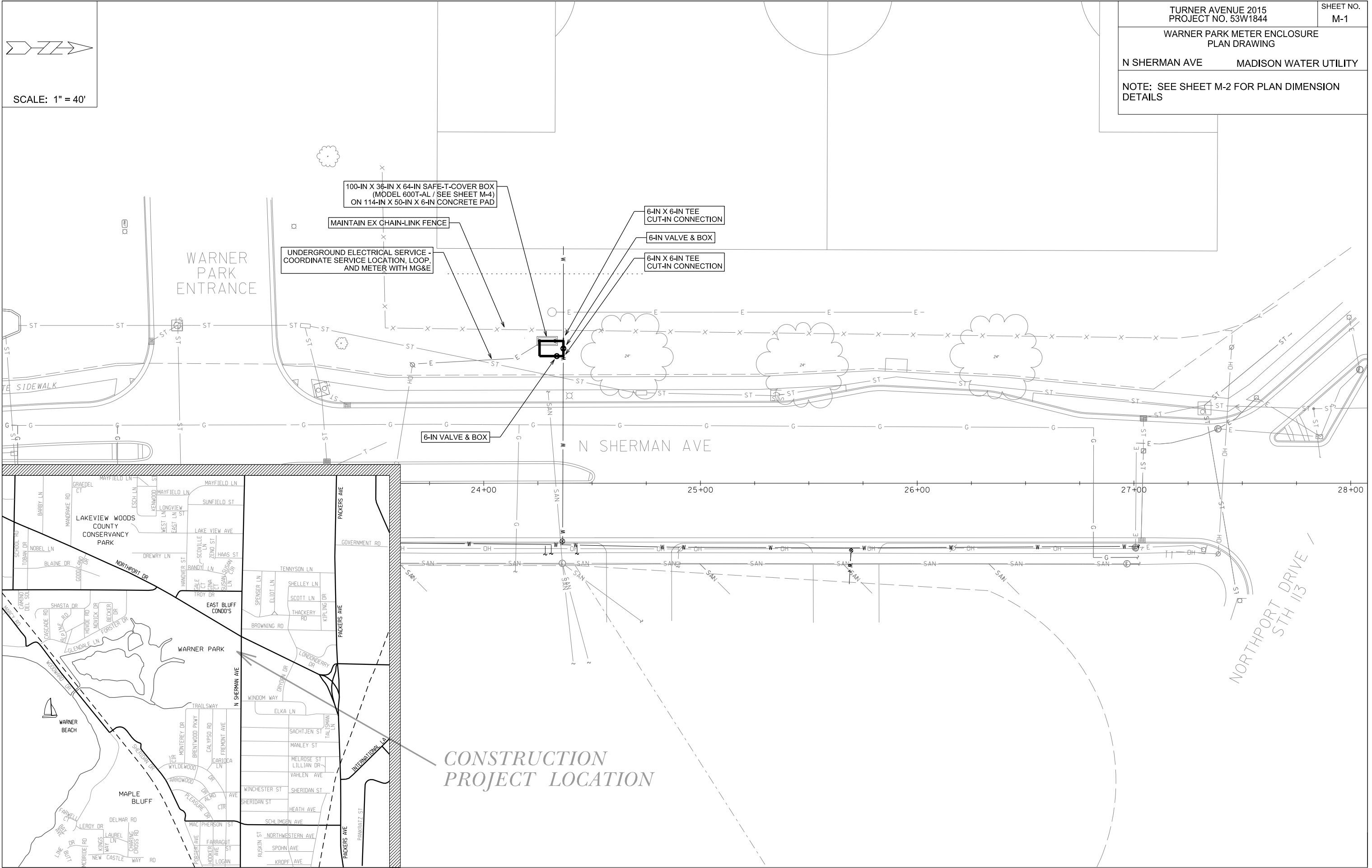
SCALE: 1" = 40'

PLOT SCALE: 1" = 40'

PLOT NAME: _____

REV. DATE: _____

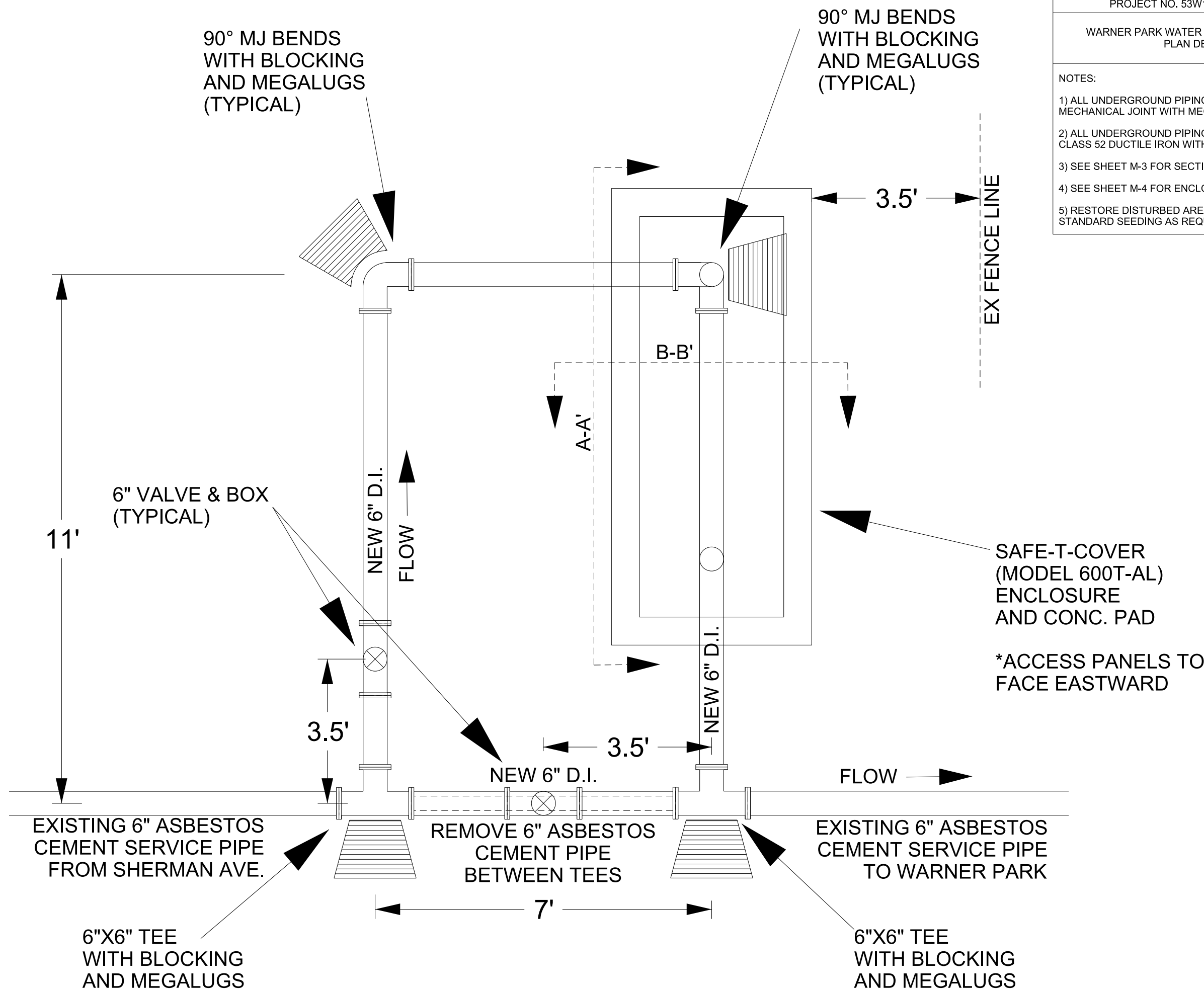
ORIGINATOR: CITY OF MADISON WATER UTILITY



WARNER PARK WATER METER ENCLOSURE
PLAN DETAIL

NOTES:

- 1) ALL UNDERGROUND PIPING SHALL BE MECHANICAL JOINT WITH MEGA-LUGS.
- 2) ALL UNDERGROUND PIPING SHALL BE CLASS 52 DUCTILE IRON WITH POLY WRAP.
- 3) SEE SHEET M-3 FOR SECTIONS A-A' AND B-B'.
- 4) SEE SHEET M-4 FOR ENCLOSURE SPECS
- 5) RESTORE DISTURBED AREAS WITH STANDARD SEEDING AS REQUIRED



WARNER PARK WATER METER ENCLOSURE
ENCLOSURE CROSS-SECTIONS

4" METER

SIDE PROFILE (B-B')

FRONT PROFILE (A-A')

NOTES:

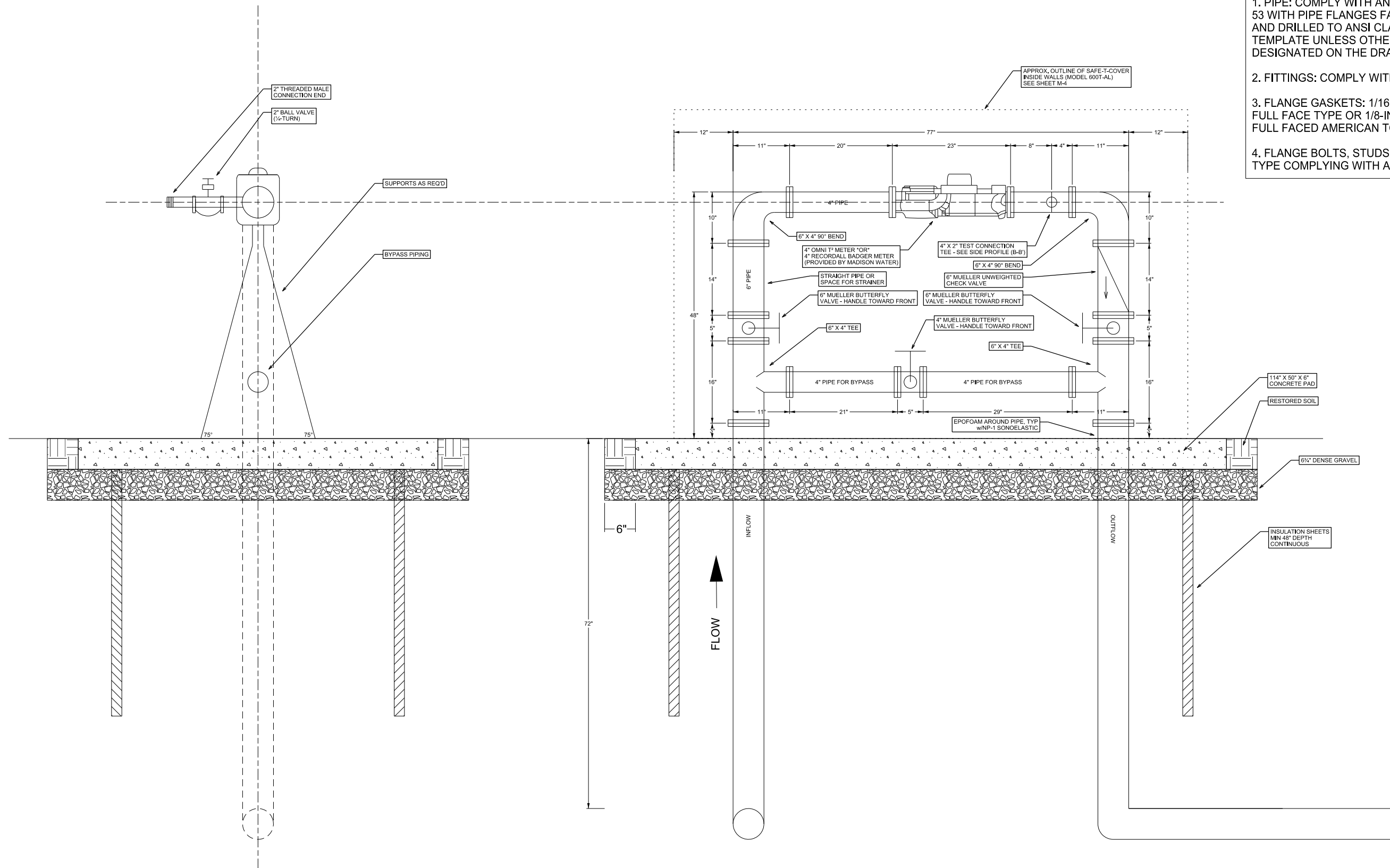
ALL ABOVE-GROUND PIPE AND FITTINGS SHALL BE FLANGED JOINT AS FOLLOWS:

1. PIPE: COMPLY WITH ANSI A21.51, THICKNESS CLASS 53 WITH PIPE FLANGES FACED AND DRILLED TO ANSI CLASS 125 STANDARD TEMPLATE UNLESS OTHERWISE DESIGNATED ON THE DRAWINGS.

2. FITTINGS: COMPLY WITH ANSI A21.10 OR ANSI B16.1.

3. FLANGE GASKETS: 1/16-INCH THICK SHEET RUBBER, FULL FACE TYPE OR 1/8-INCH THICK FULL FACED AMERICAN TORUSEAL FLANGE GASKET.

4. FLANGE BOLTS, STUDS, AND NUTS: ZINC PLATED TYPE COMPLYING WITH ANSI B16.1.





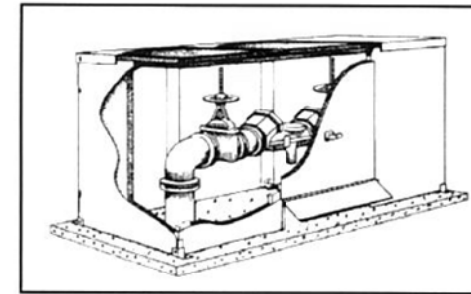
Specification Submittal Sheet Series 600 – Panel Design Insulated Enclosure for Backflow Prevention

Specifications

- Roof, walls, panels, drain panel – 5052-H32 marine grade aluminum (.050/18 gauge), mill finish, ASTM B209 outside
- Drain panel hinge and spring – stainless steel
- Insulation 1 ½" (9 "R" value) minimum thickness polyisocyanurate foam laminated to a glass fiber reinforced facer (each side).
- Mounting hardware – 300 series stainless steel or T-6 aluminum
- Hex head fastener – coated and self-tapping with seal washer
- Masonry fasteners – stud type Powers SD1 wedge anchors

Standards

- ASSE 1060
- ASTM B209



Description

The enclosure is designed to provide freeze and vandal protection of above ground backflow prevention assemblies. The enclosure provides for safe and easy testing and maintenance or replacement of the backflow prevention assembly.

Heating Required

- Yes – see separate specification submittal sheet
 No

Dimensions

Model	Inside Diameter			Concrete Pad			Weight	Access Panels	Access Panel Size		Drain Opening	
	W	L	H	W	L	H			W	H	W	H
600-AL	36	100	56	50	114	6	364	2	38 ¼	56	38 ¼	6 ½
600D-AL	70	108	56	84	122	6	535	2	38 ¼	56	38 ¼	6 ½
600DS-AL	70	128	56	84	142	6	575	4	38 ¼	56	38 ¼	6 ½
600LU880-AL*	36	38	48	50	52	6	245	2	26	48	26	6 ½
600T-AL	36	100	64	50	114	6	424	2	38 ¼	64	38 ¼	6 ½
600TD-AL	70	108	64	84	122	6	565	2	38 ¼	64	38 ¼	6 ½
600TDS-AL	70	128	64	84	142	6	590	4	38 ¼	64	38 ¼	6 ½
600TLU880-AL*	44	38	48	58	52	6	212	2	36	48	36	6 ½
600TS-AL	38	120	64	52	134	6	524	2	38 ¼	64	38 ¼	6 ½

FOR 4-IN METERS →

6" →

*Standard compact design models include hinged lift-up roof

All dimensions in inches.

Specifications

A freeze and vandal protection enclosure shall be installed with above ground backflow prevention assemblies. The enclosure shall be mounted securely to a concrete pad and assembled in such a way that it will remain locked and secured to pad even if outside screws are removed. The enclosure shall be constructed of 5052-H32 marine grade aluminum with a minimum R-value of 9 in the walls and panels and R-value of 18 in the roof. Drain panel shall be fully insulated and designed to remain closed except when backflow prevention device is discharging water. Drain panel shall be sized to accommodate the maximum discharge of the device. All mounting hardware shall be furnished. The enclosure shall be certified to ASSE Standard 1060 (Class I, Class II and Class III). The insulated enclosure shall be a Safe-T-Cover Series 600.