

Madison, Wisconsin

INDEX OF SHEETS

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CITY OF MADISON

CITY ENGINEERING DIVISION

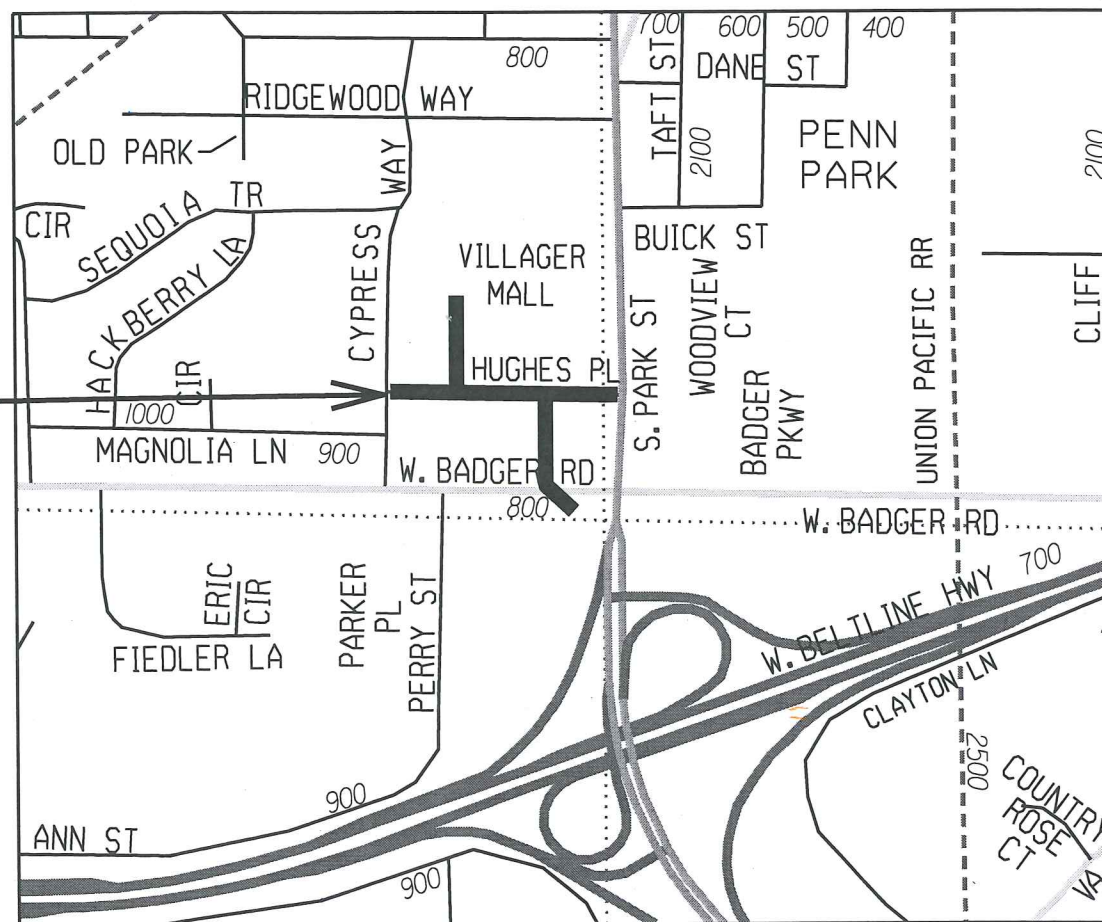
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

HUGHES PLACE STORM SEWER RELIEF AND RESURFACING - 2017

CITY PROJECT NO. 11491
CONTRACT NO. 7895

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
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 1.5%. 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)	
VILLAGER ALLEY:	530 C.Y.
BADGER ROAD:	120 C.Y.
HUGHES PLACE:	0 C.Y. (PULVERIZE & SHAPE)
TOTAL:	650 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT	
VILLAGER ALLEY:	130 C.Y.
HUGHES PLACE:	215 C.Y.
TOTAL:	345 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT 995 C.Y.	

PUBLIC IMPROVEMENT PROJECT APPROVED

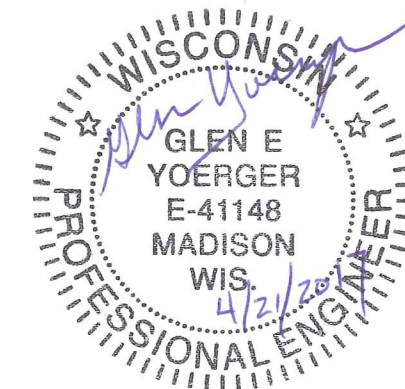
MARCH 21, 2017

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Christy Park 4-29-17
City Engineer Date

STREET DESIGNED BY:



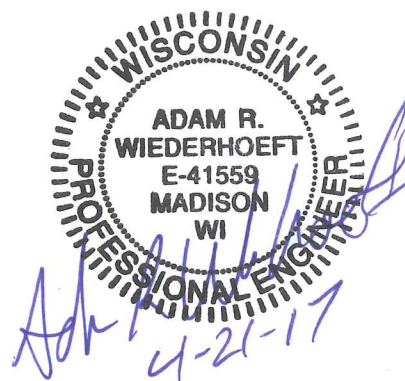
STORM SEWER DESIGNED BY:



TRAFFIC CONTROL & PAVEMENT MARKINGS DESIGNED BY:



WATER MAIN DESIGNED BY:



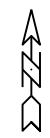
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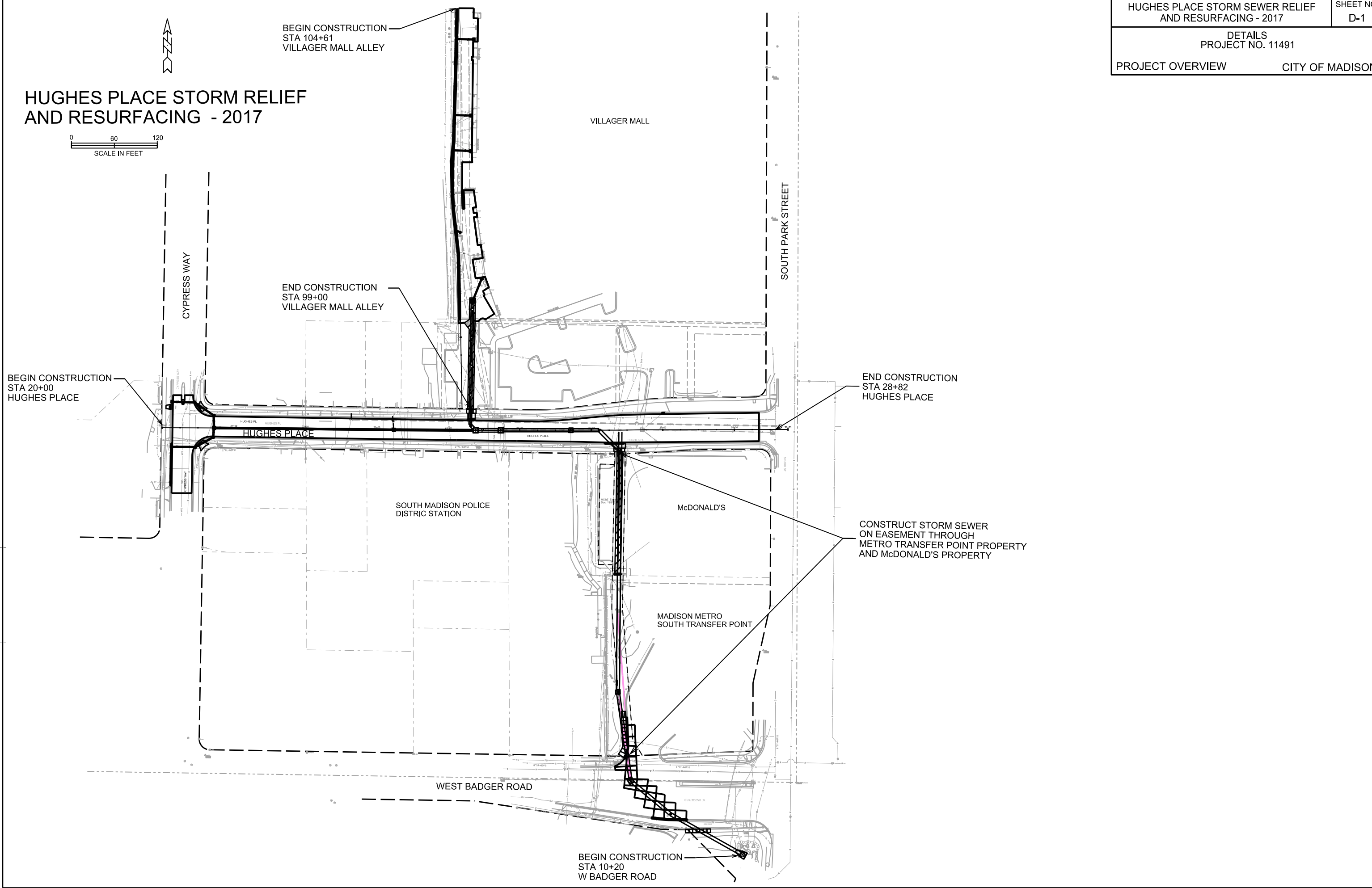
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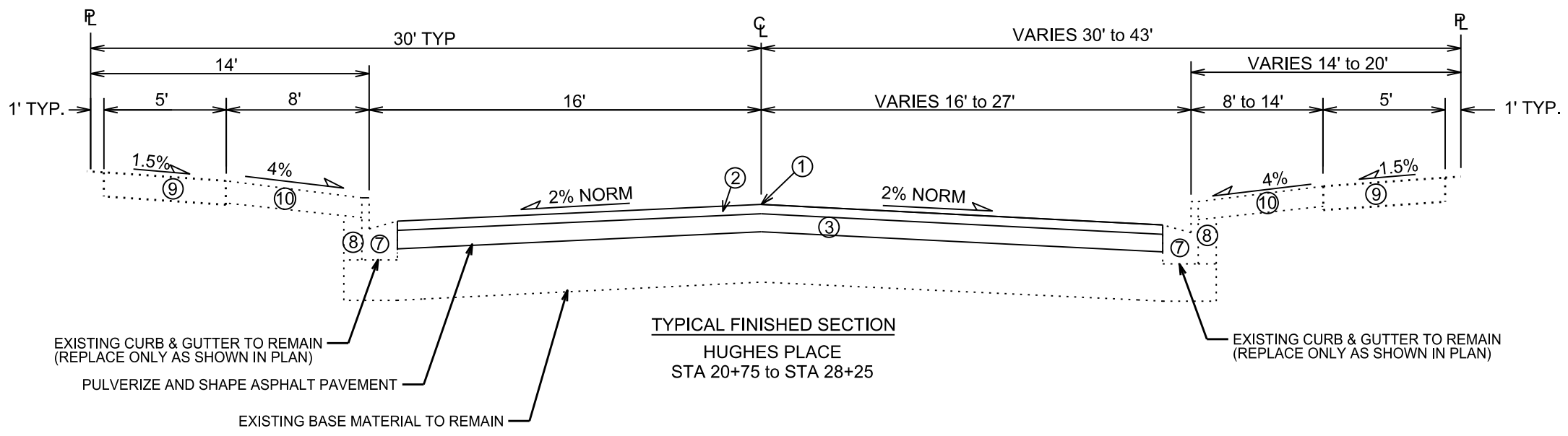
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

HUGHES PLACE STORM RELIEF AND RESURFACING - 2017



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

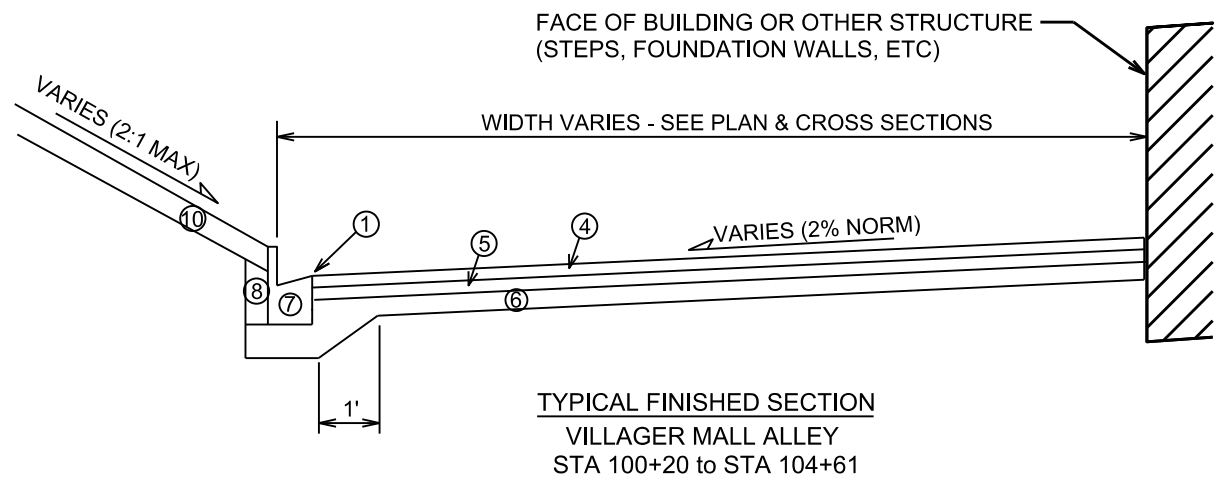
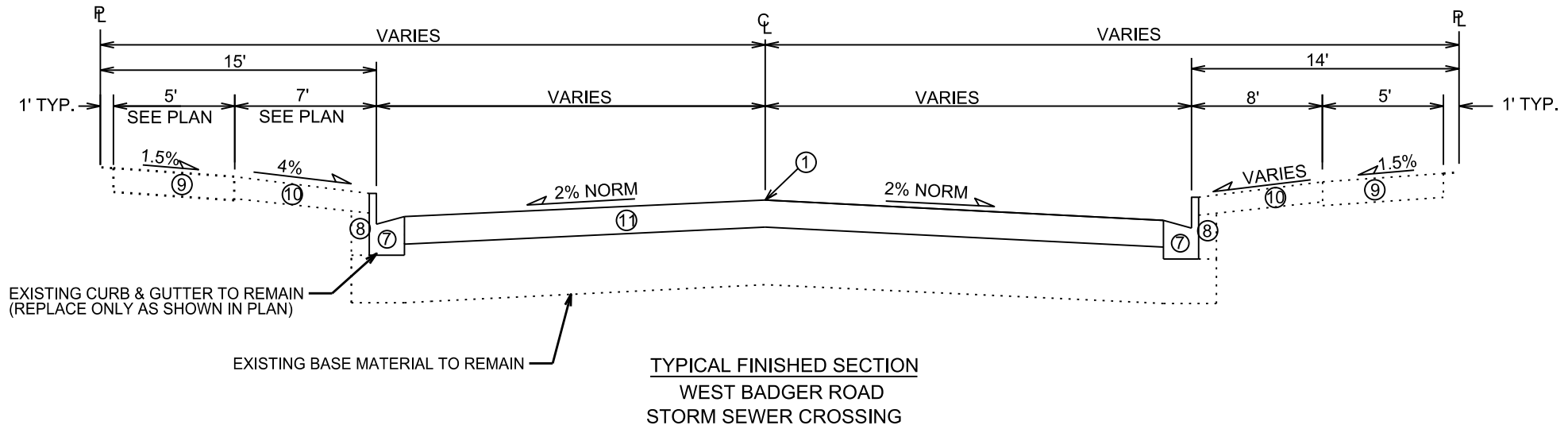




- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-3.0
- ③ 3 1/4" BITUMINOUS LOWER LAYER, TYPE E-3.0
- ④ 2" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ⑤ 2" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ⑥ 6" GRADATION 2 CRUSHED STONE
- ⑦ TYPE 'A' OR 'X' CONCRETE CURB & GUTTER
- ⑧ FILL, INCIDENTAL
- ⑨ 5" CONCRETE SIDEWALK-REPLACE AS SHOWN IN PLAN
- ⑩ 4" TOPSOIL, SEED & MAT
- ⑪ 10-INCH CONCRETE PAVEMENT

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

TYPICAL SECTIONS NOT TO SCALE



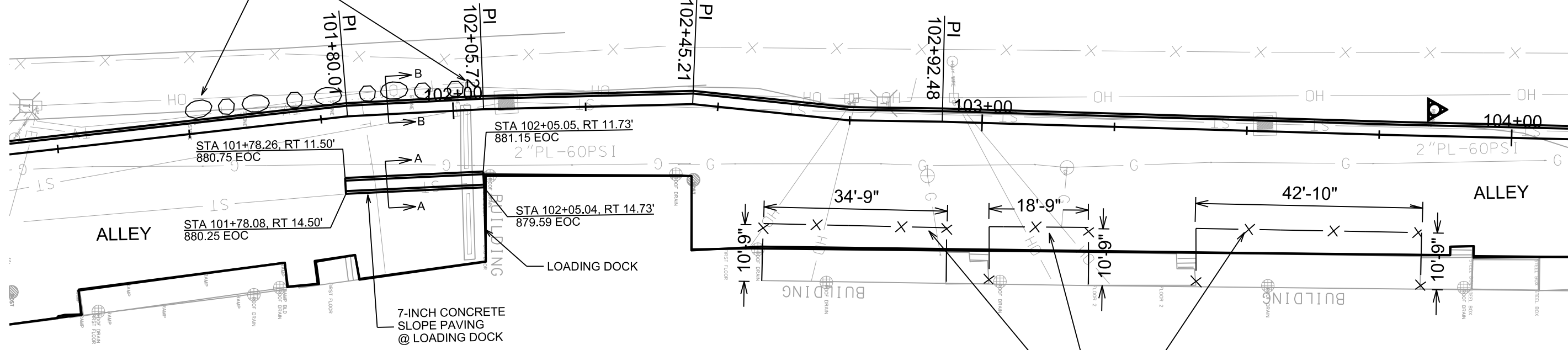
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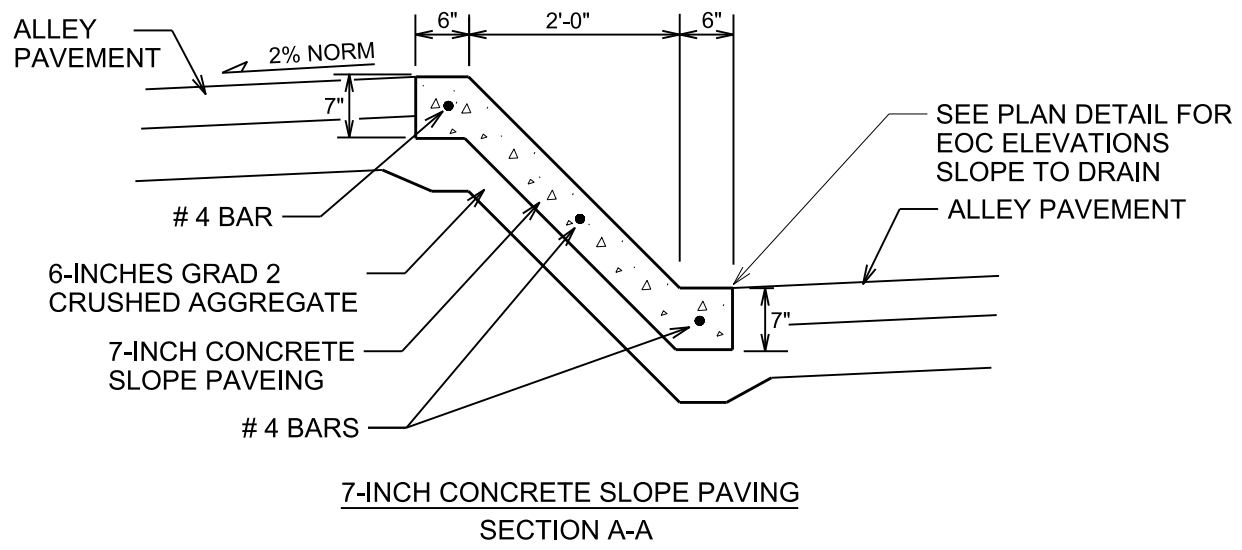
REMOVE, SALVAGE & REPLACE BOULDER
RETAINING WALL PER S.D.D. 2.06
ONE COURSE, PLACE BEHIND PROPOSED
CURB



PLAN VIEW VILLAGER MALL - ALLEY DETAILS
SCALE 1" = 20'

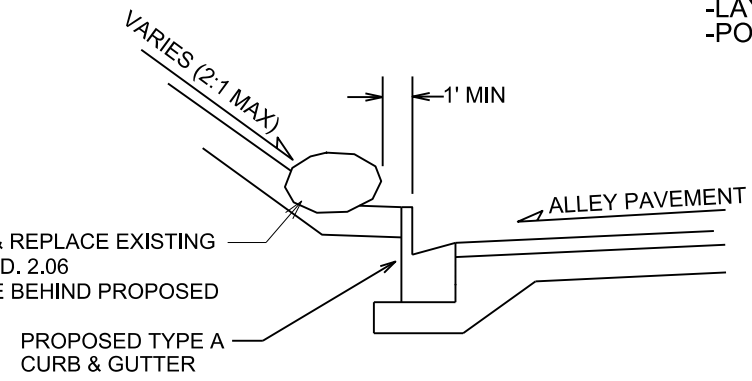
REMOVE CHAINLINK FENCE AS NECESSARY
TO CONSTRUCT STORM SEWER AND NEW PAVMENT.
REPLACE CHAINLINK FENCE AFTER COMPLETION OF PAVING.
(TYP FOR 3 ENCLOSURES - MATCH EXISTING LOCATIONS)

- PROPOSED CHAIN LINK FENCE DESIGN**
- HEIGHT: 6-FEET
 - COLOR: STANDARD GREY (GALVANIZED)
 - NO BARBED WIRE ON TOP
 - ONE STANDARD 4-FOOT WIDE GATE PER ENCLOSURE
 - MATCH EXISTING GATE LOCATIONS
 - LAYOUT PER DIMENSIONS IN PLAN
 - POSTS SHALL BE SET IN CONCRETE



7-INCH CONCRETE SLOPE PAVING
SECTION A-A

REMOVE, SALVAGE & REPLACE EXISTING
BOULDERS PER S.D.D. 2.06
ONE COURSE, PLACE BEHIND PROPOSED
CURB



BOULDER RETAINING WALL DETAIL
SECTION B-B

PLOT SCALE:

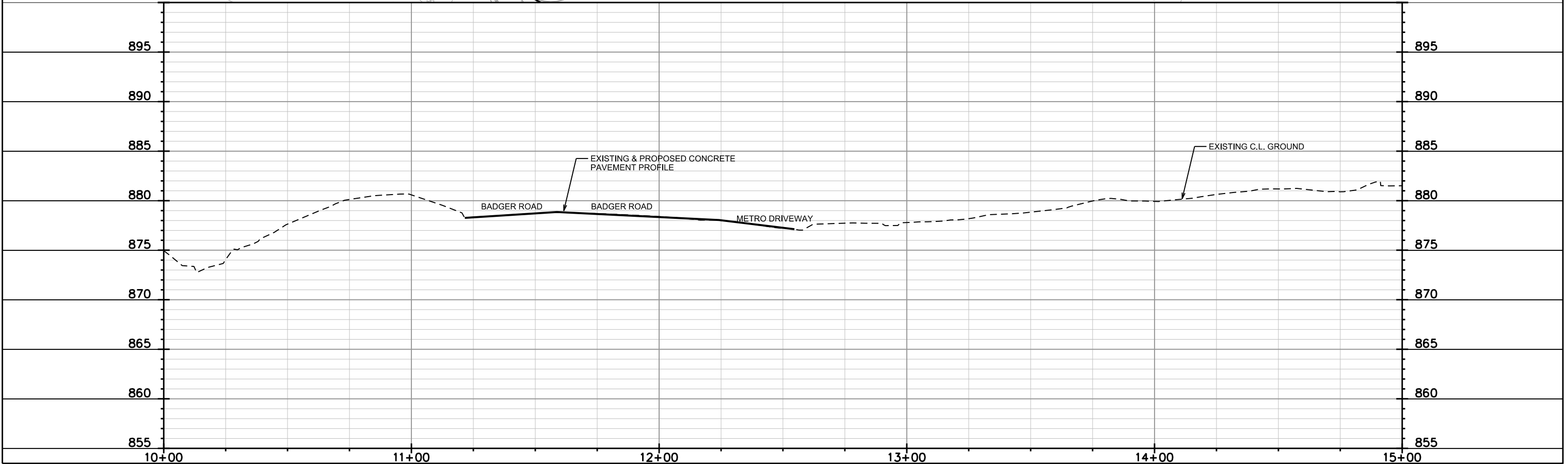
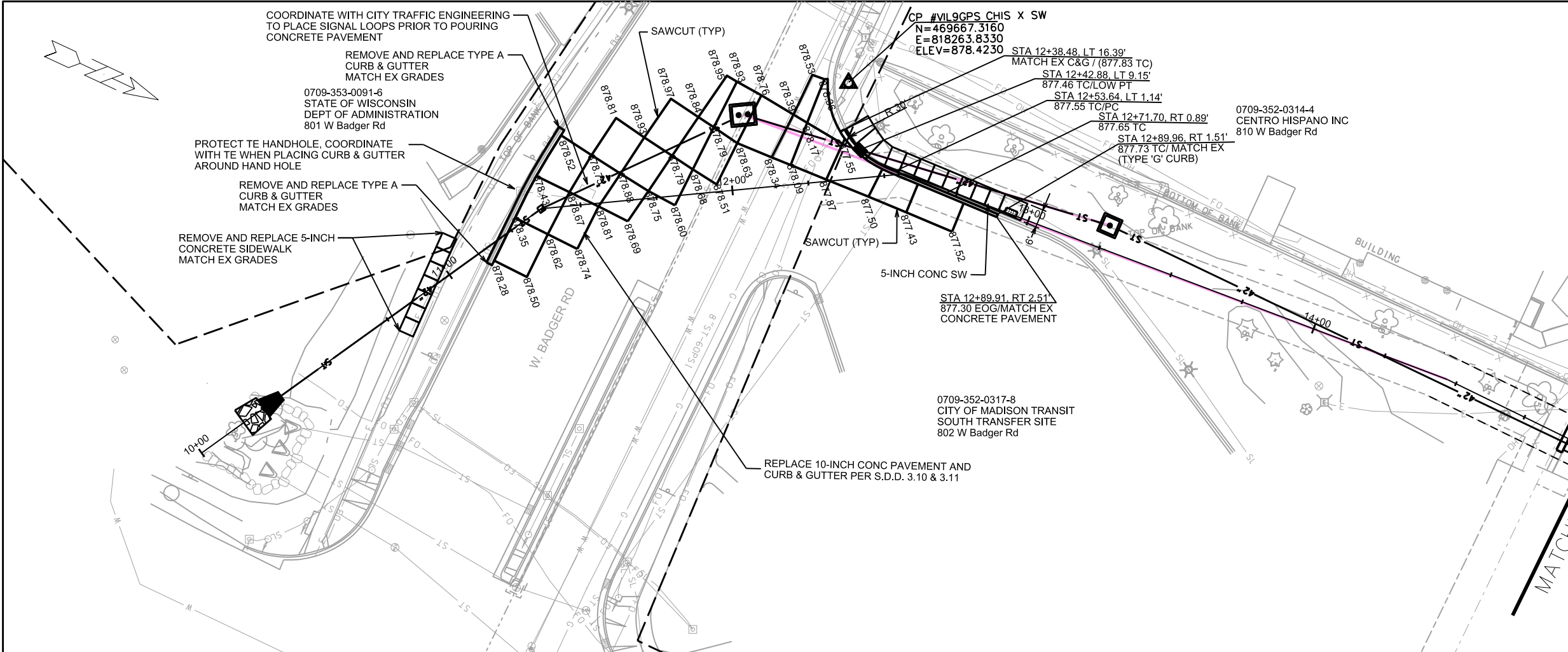
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REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

FILE NAME:

DATE: 4/24/2017



PLOT SCALE: _____

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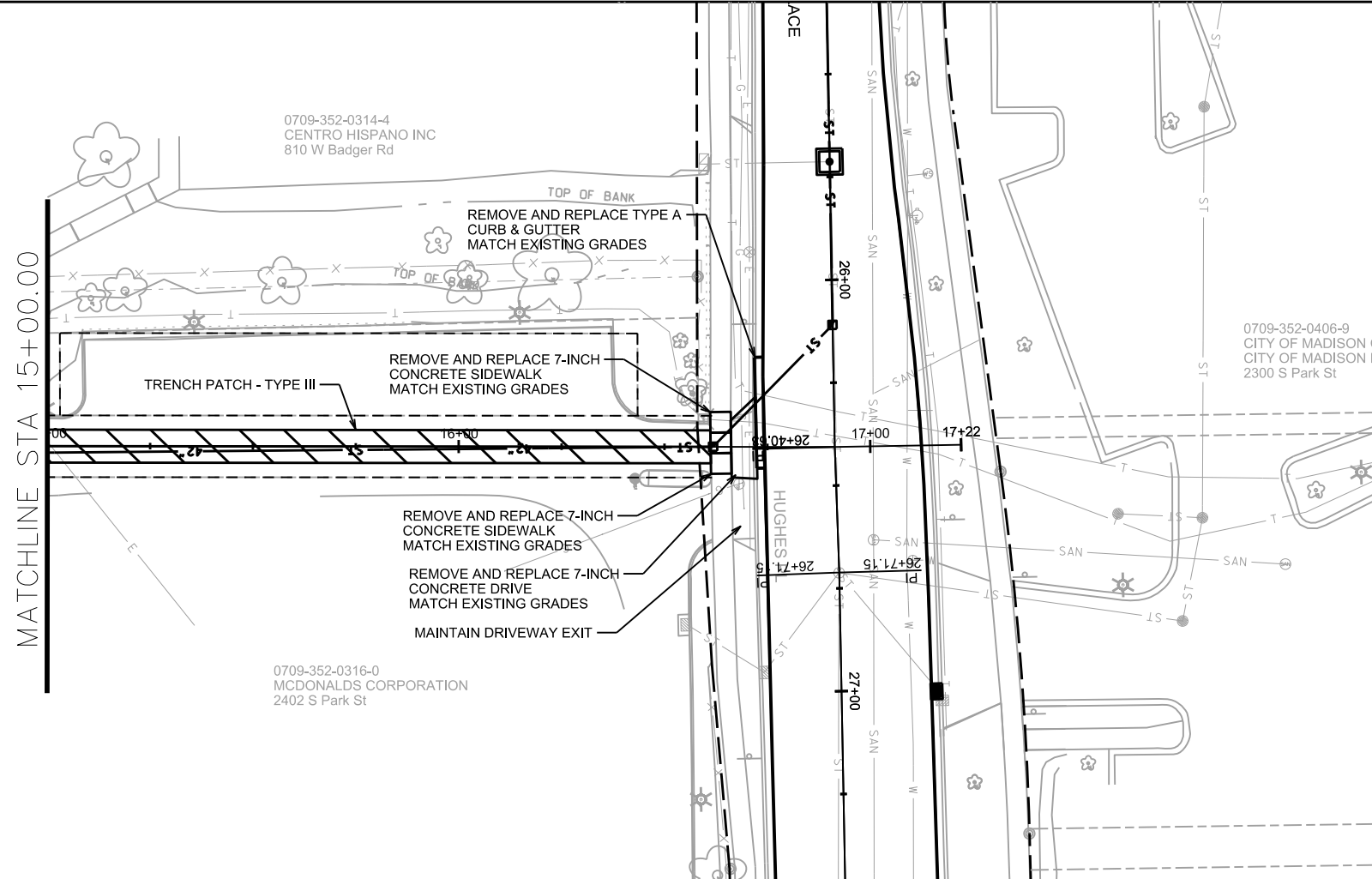
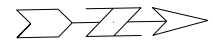
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

HUGHES PL

CITY OF MADISON

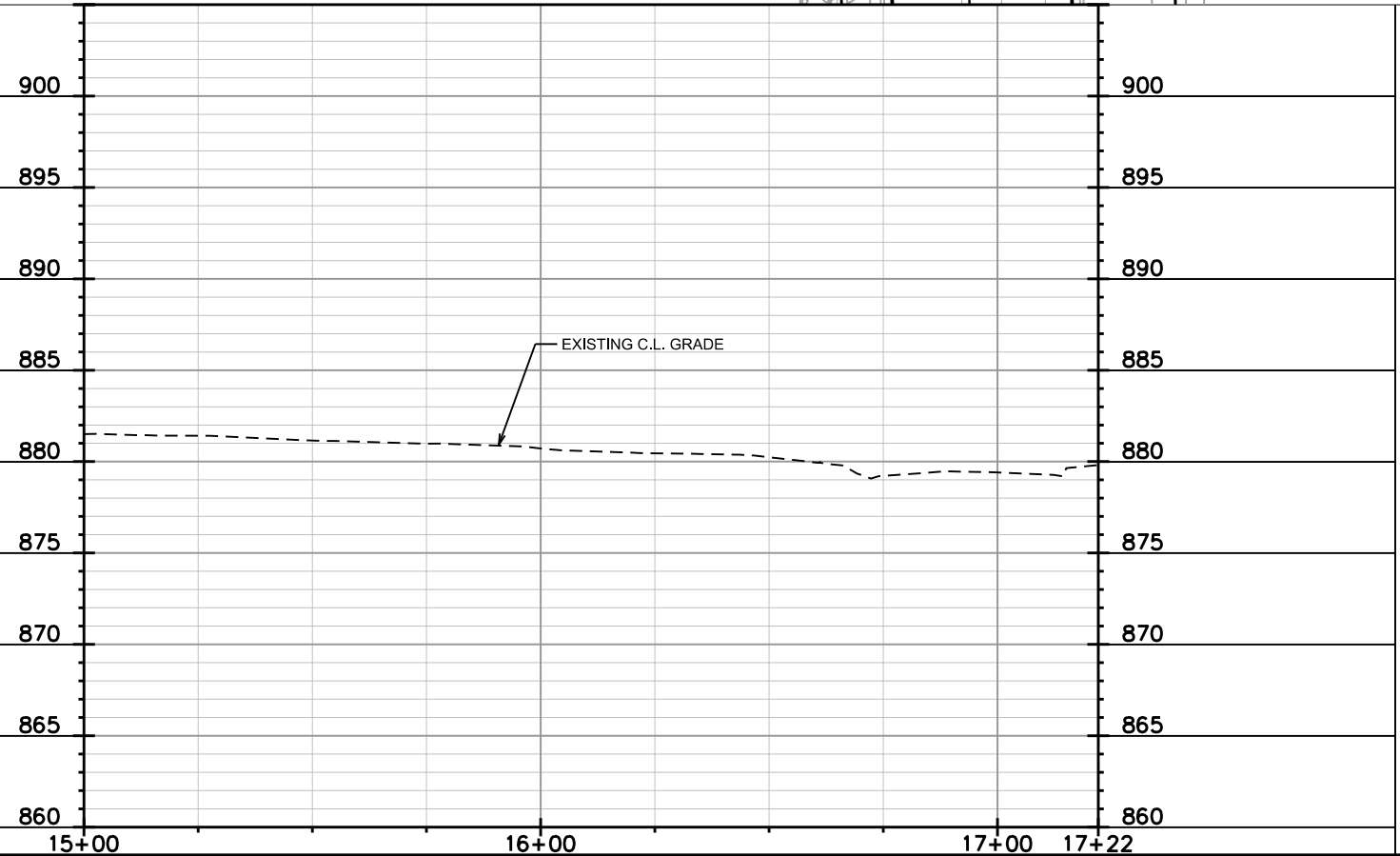


MATCHLINE STA 15+00.00

0709-352-0314-4
CENTRO HISPANO INC
810 W Badger Rd

0709-352-0406-9
CITY OF MADISON CDA
CITY OF MADISON EDD
2300 S Park St

0709-352-0316-0
MCDONALDS CORPORATION
2402 S Park St

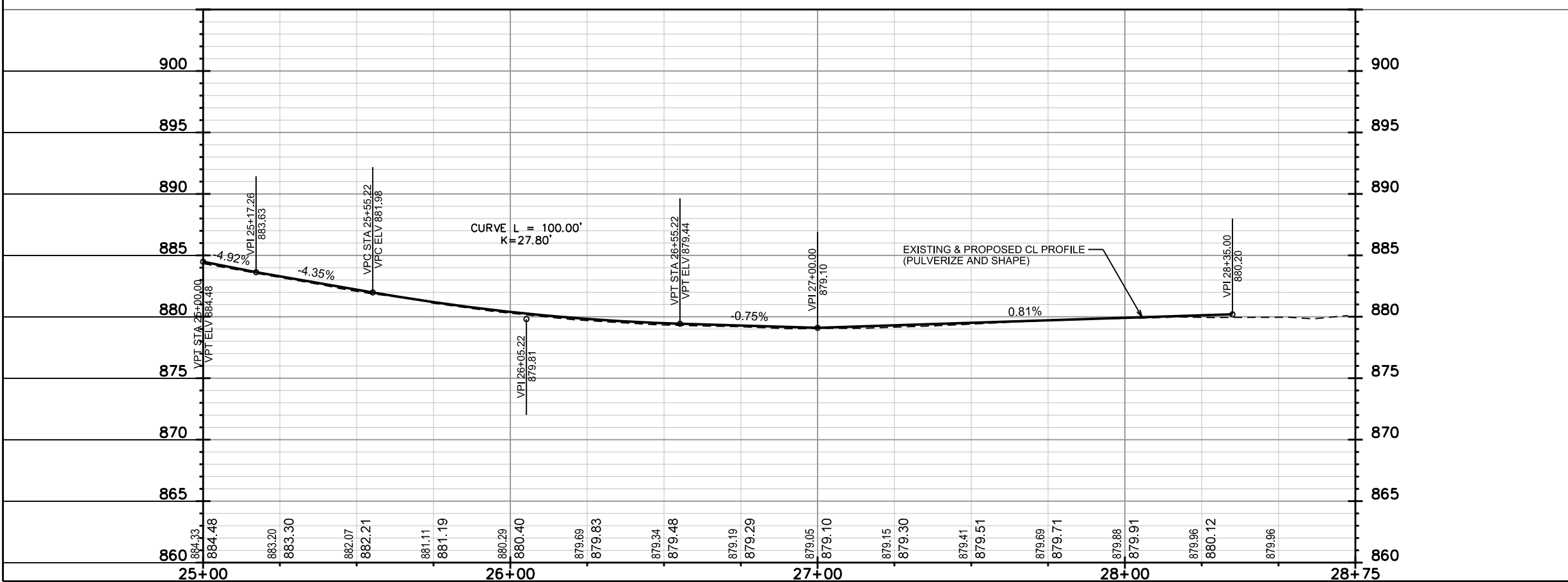
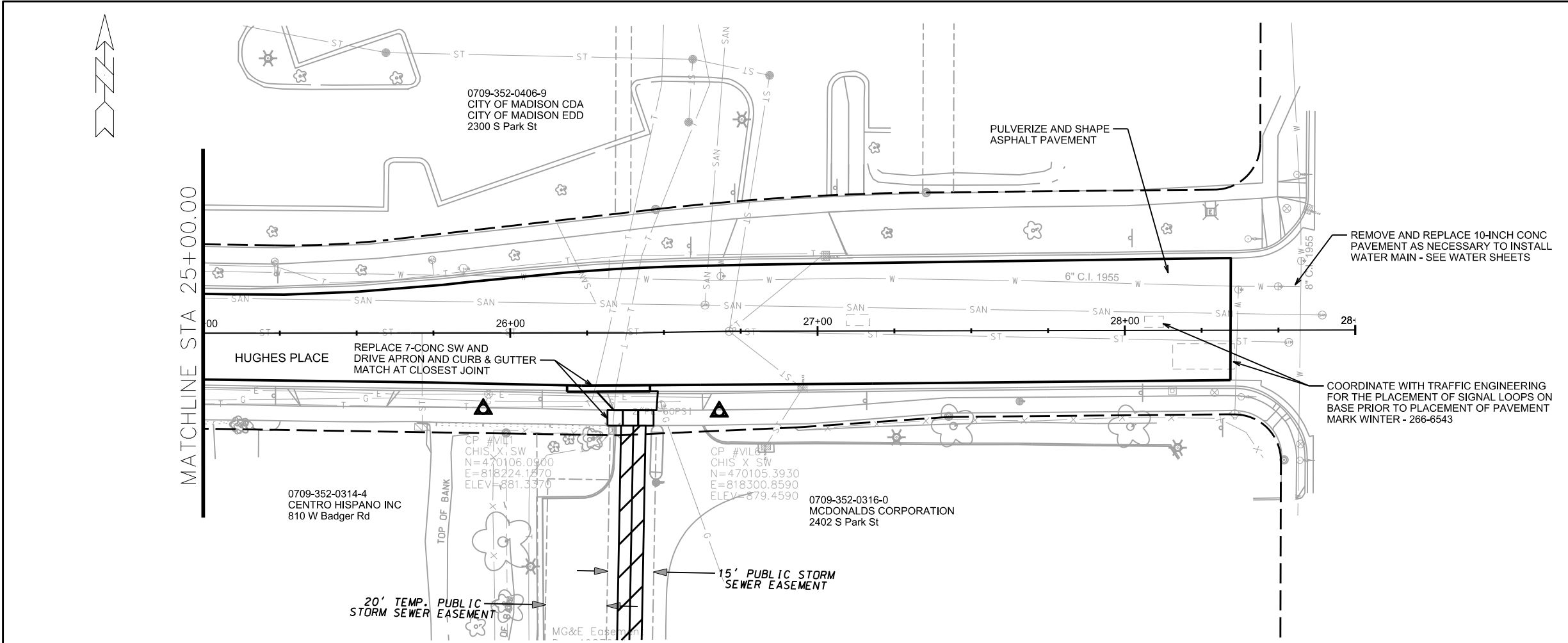


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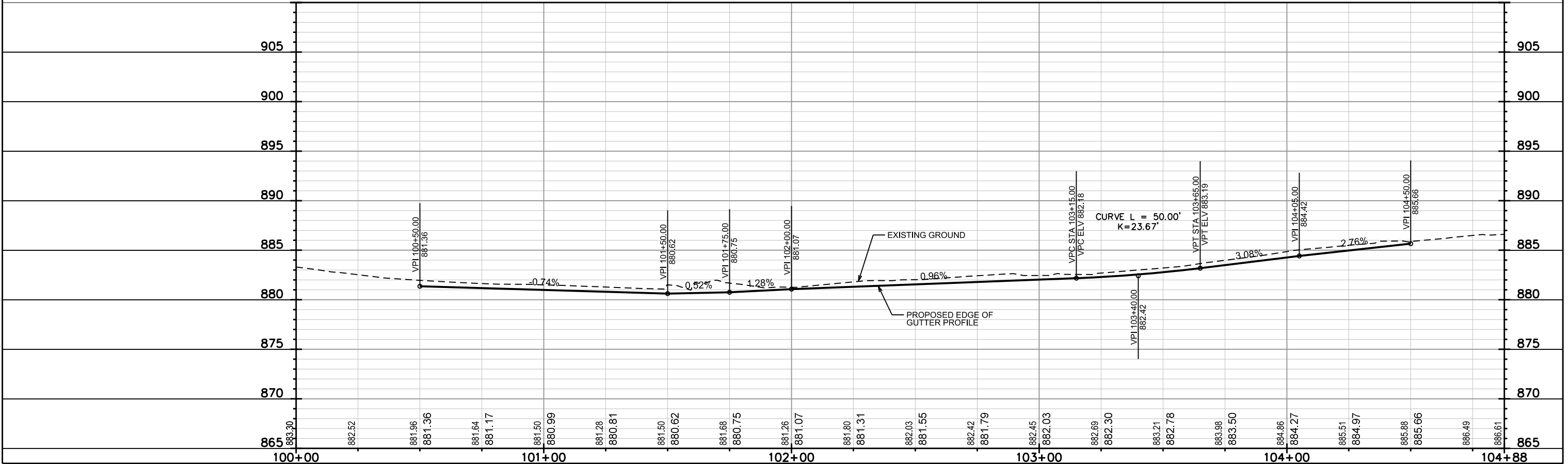
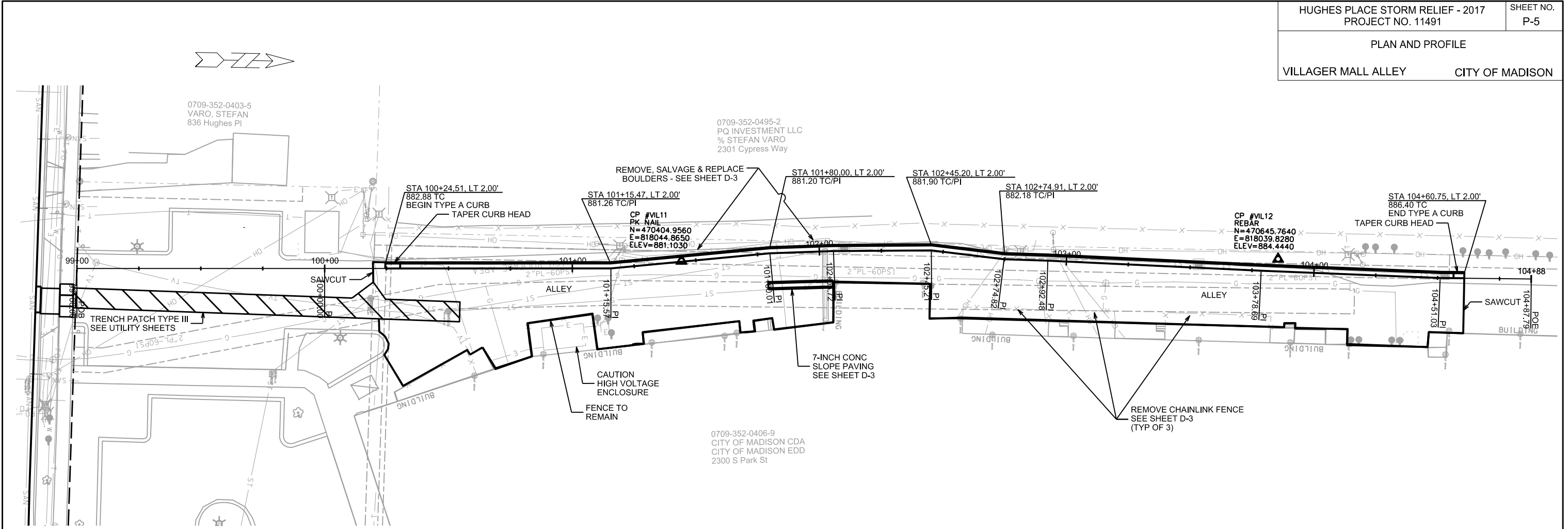


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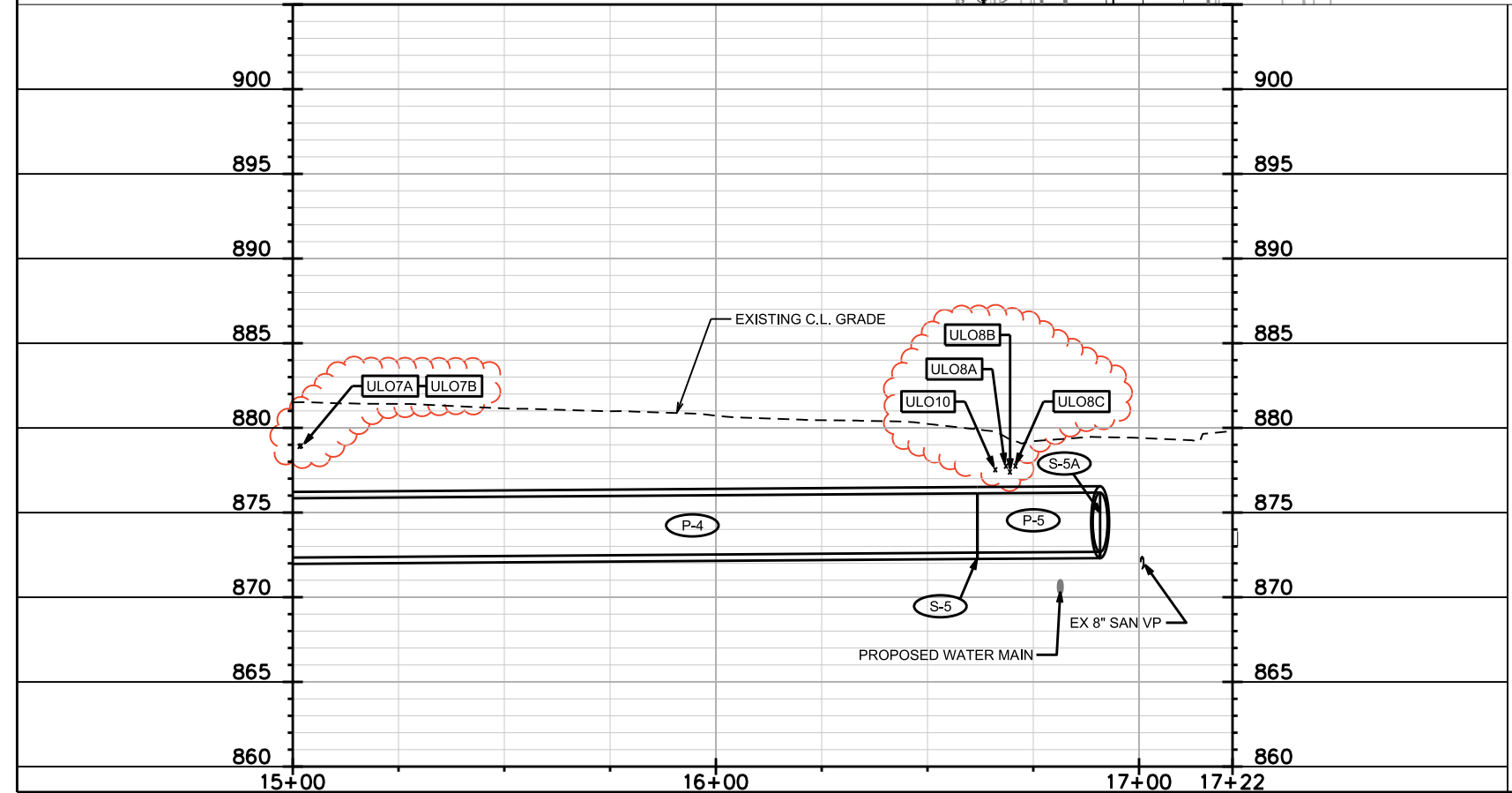
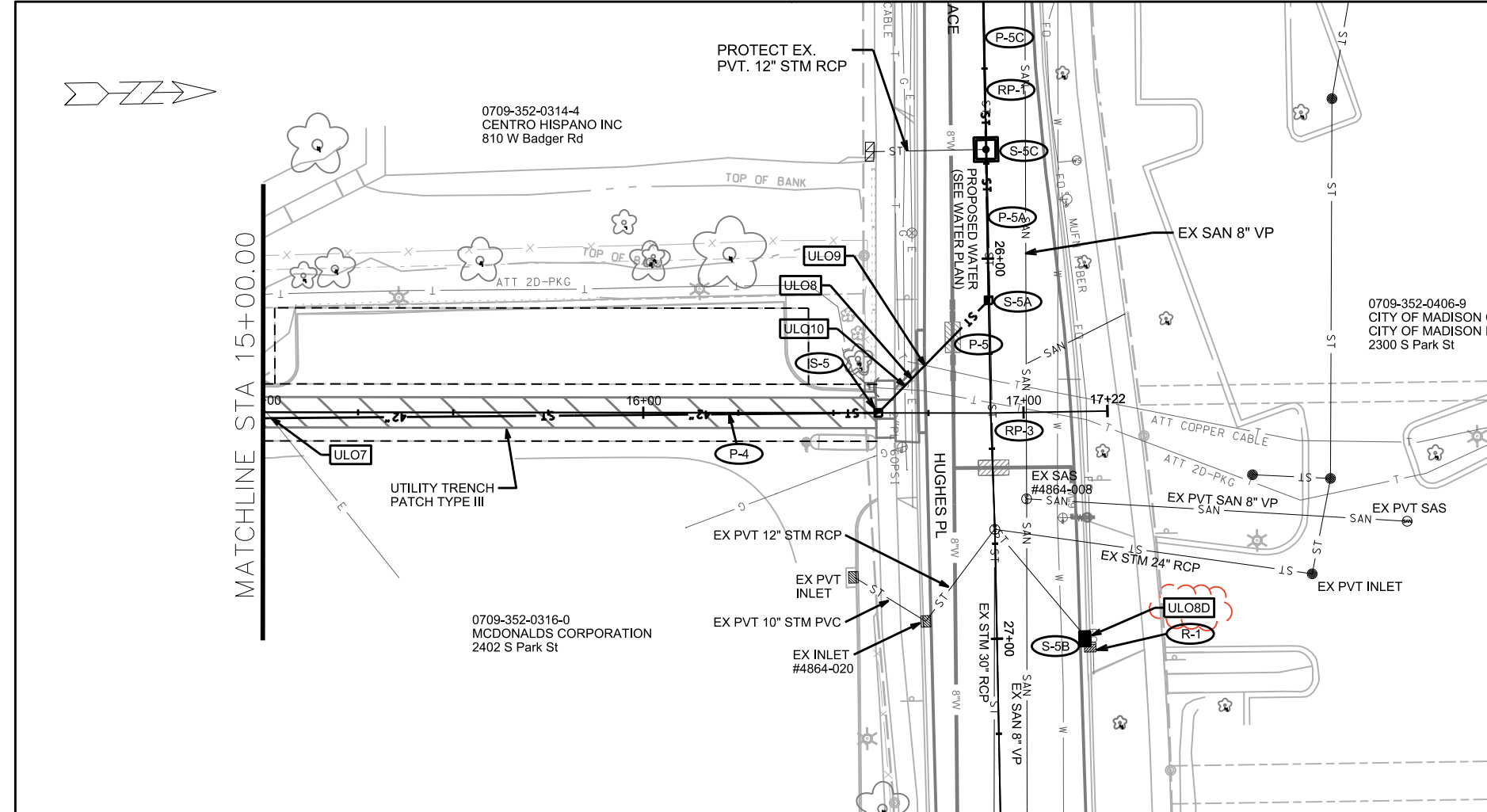
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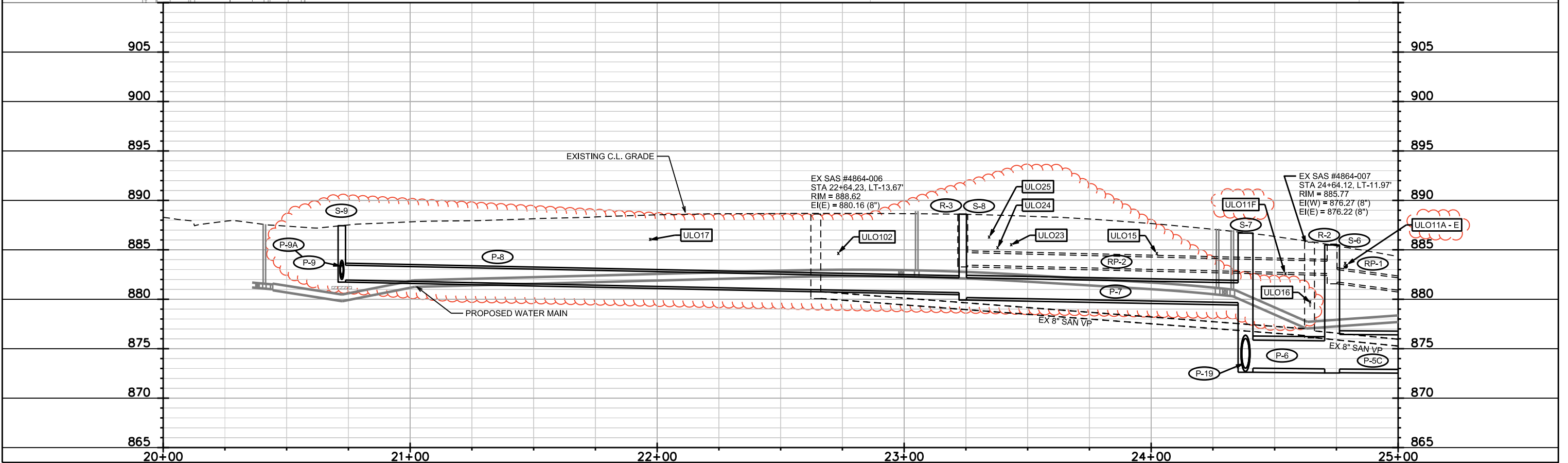
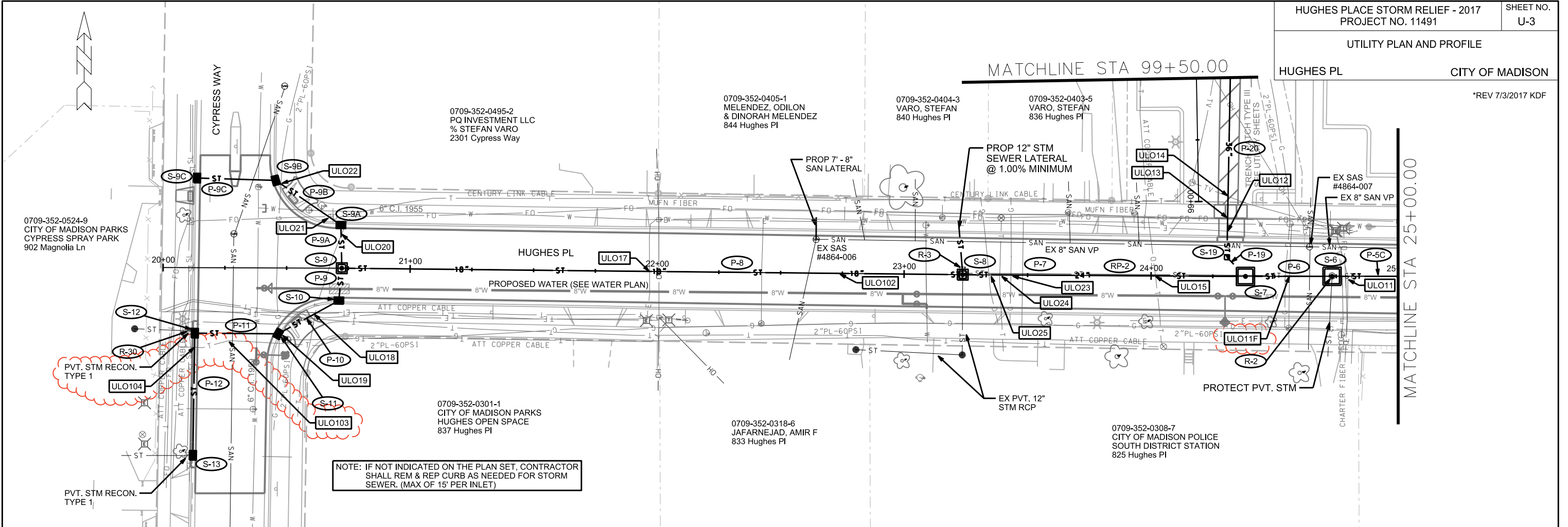
UTILITY PLAN AND PROFILE

HUGHES PL CITY OF MADISON

*REV 7/3/2017 KDF

MATCHLINE STA 99+50.00

MATCHLINE STA 25+00.00

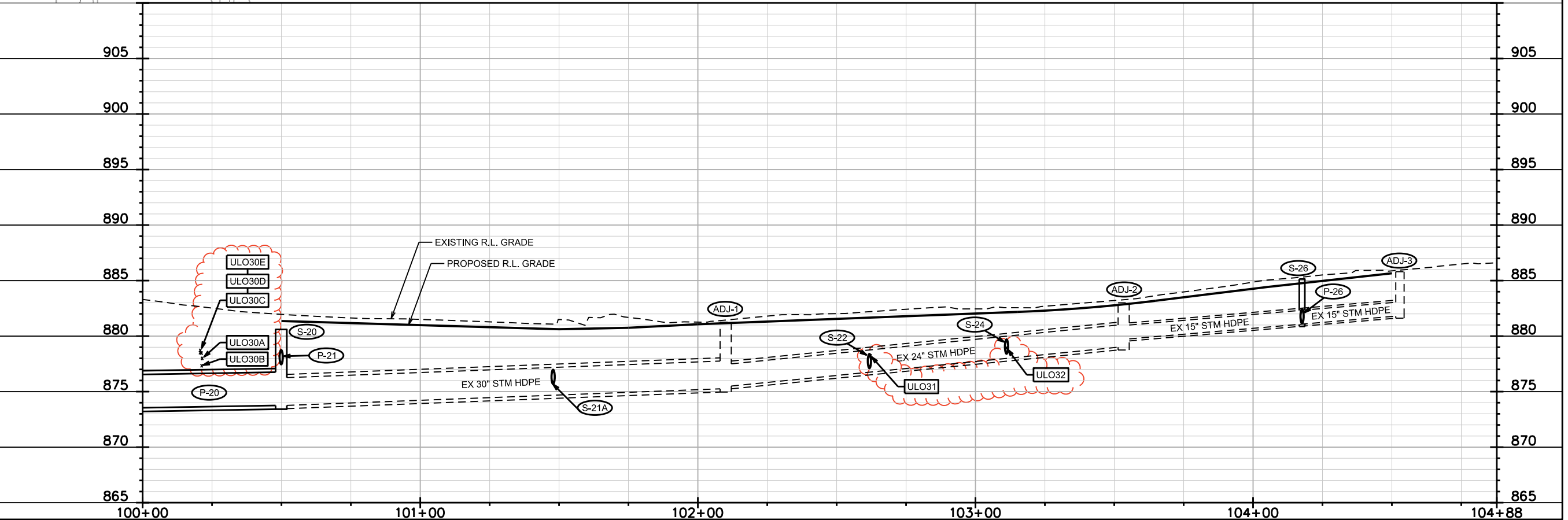
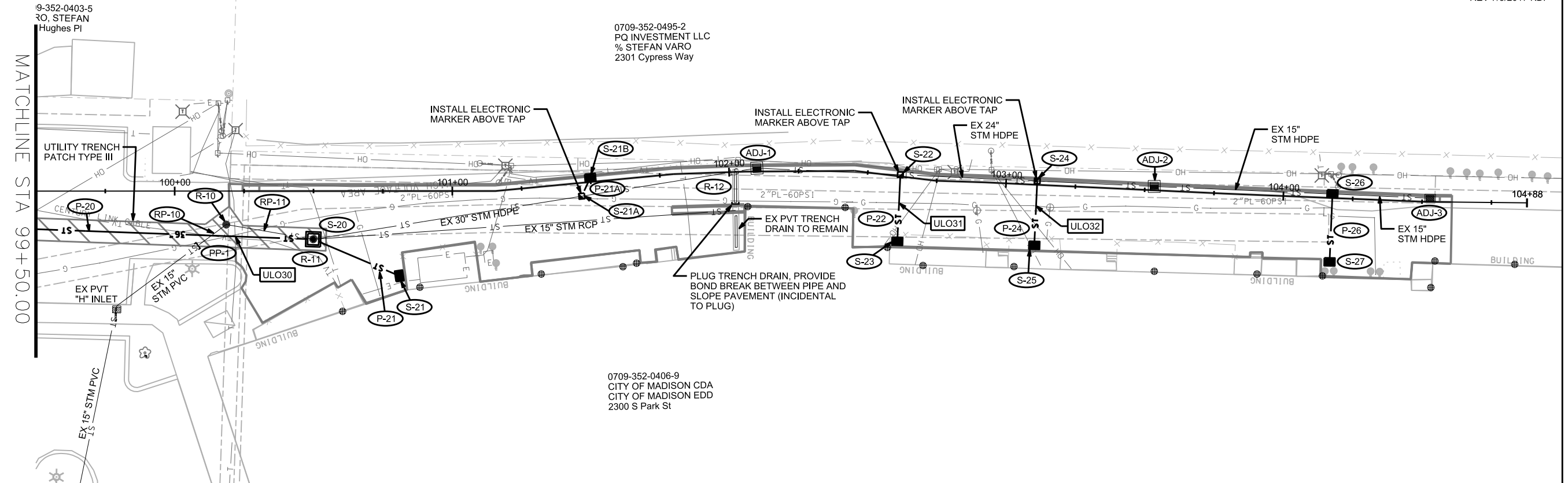
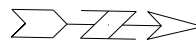


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REV. DATE:

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STORM SEWER SCHEDULE

*REV 7/3/2017 KDF

HUGHES PLACE STORM RELIEF - 2017		SHEET NO.
PROJECT NO. 11491		U-6
STORM SEWER SCHEDULE		
HUGHES PL	CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
METRO TRANSFER POINT							
S-1	10+25.00	CL	42" RCP AE	-	872.00	-	W/ GATE
* S-2	11+74.80	LT-21.10	FIELD BEND	-	871.77	-	[2]
S-2A	12+05.89	LT-24.35	6X7 SAS	878.75	871.82	6.93	[4], FP, W/TWIN (2) R-1550-0054
S-3	12+42.88	LT-9.15	SADDLED INLET I	877.56	871.88	5.68	W/R-3067-7004-V
S-4	13+25.60	LT-8.00	5X5 SAS	878.91	872.03	6.88	W/R-1550-0054
HUGHES PLACE							
S-5	26+40.05	RT-29.55	42" PRECAST BEND	-	872.63	-	-
S-5A	26+10.96	CL	42" PRECAST BEND	-	872.68	-	-
S-5B	27+00.47	LT-23.10	H INLET	874.30	872.11	2.19	W/R-3290-A
S-5C	25+71.29	CL	5X5 SAS	881.33	872.78	8.55	W/R-1550-0054
S-6	24+73.26	CL	6X6 SAS	885.49	872.95	12.54	[5], W/R-1550-0054
S-19	24+30.70	LT-7.77	36" PRECAST BEND	-	873.05	-	-
S-7	24+38.20	CL	6X6 SAS	886.69	873.03	13.66	W/R-1550-0054
* S-8	23+23.73	CL	3X3 SAS	888.61	880.17	8.44	W/R-1550-0054
* S-9	20+72.33	CL	3X3 SAS	887.44	881.94	5.50	W/R-1550-0054
* S-9A	20+71.91	LT-17.49	H INLET	888.15	882.34	5.81	W/R-3067-7004-V
* S-9B	20+45.45	LT-35.49	H INLET	888.55	884.77	3.78	W/R-3067-7004-V
* S-9C	20+13.59	LT-36.31	H INLET	888.71	885.22	3.49	W/R-3067-7004-V
* S-10	20+71.20	RT-13.12	H INLET	887.49	882.65	4.84	W/R-3067-7004-V
* S-11	20+46.70	RT-26.68	H INLET	887.29	882.92	4.37	W/R-3067-7004-V
* S-12	20+12.92	RT-26.54	H INLET	887.43	883.08	4.35	W/R-3067-7004-V
* S-13	20+12.33	RT-76.04	H INLET	886.95	883.31	3.64	W/R-3067-7004-V
VILLAGER MALL ALLEY							
PP-1	100+08.62	RT-19.45	STM PLUG	-	882.45	-	-
S-20	100+49.91	RT-17.37	4X4 SAS	880.60	873.75	6.85	W/R-1550-0054
S-21	100+80.88	RT-30.55	H INLET	881.65	878.66	2.99	W/SALV. R-1878-B7G
S-21A	101+46.32	RT-4.78	TAP	-	875.83	-	-
S-21B	101+50.00	LT-1.50	H INLET	880.98	876.32	4.66	LP; W/R-3067-7004-VB
S-22	102+61.75	LT-0.60	TAP	-	877.25	-	-
* S-23	102+63.54	RT-23.32	H INLET	882.15	880.01	2.14	W/SALV. R-1878-B7G
S-24	103+11.19	LT-1.36	TAP	-	878.50	-	-
* S-25	103+11.21	RT-21.80	H INLET	882.87	880.37	2.50	W/SALV. R-1878-B7G
S-26	104+17.64	LT-1.50	H INLET	885.14	881.29	3.85	W/R-3067-7004-V
S-27	104+17.60	RT-23.00	H INLET	885.83	882.19	3.64	W/R-1878-B7G

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
METRO TRANSFER POINT										
* P-1	S-1	S-2	871.50	871.77	155.5	155.3	0.18%	42"	TYPE I	-
* P-2	S-2	S-2A	871.77	871.82	31.5	27.5	0.18%	42"	TYPE I	-
P-2A	S-2A	S-3	871.82	871.88	40.0	34.5	0.18%	42"	TYPE I	-
P-3	S-3	S-4	871.88	872.03	85.5	81.5	0.18%	42"	TYPE I	-
P-4	S-4	S-5	872.03	872.63	336.5	334	0.18%	42"	TYPE I	-
HUGHES PLACE										
P-5	S-5	S-5A	872.63	872.68	41.5	41.5	0.12%	42"	TYPE I	-
P-5A	S-5A	S-5C	872.68	872.78	39.5	37.0	0.27%	42"	TYPE I	-
P-5C	S-5C	S-6	872.78	872.95	98.0	92.5	0.18%	42"	TYPE I	-
* P-6	S-6	S-7	872.96	873.03	35.0	29.0	0.24%	34"x53"	TYPE I	[3]
* P-7	S-7	S-8	879.66	880.17	114.5	110.0	0.46%	24"	TYPE I	-
* P-8	S-8	S-9	880.67	881.94	251.5	248.5	0.51%	18"	TYPE I	-
* P-9	S-9	S-10	882.50	882.65	13.0	10.5	1.43%	15"	TYPE I	-
* P-9A	S-9	S-9A	882.19	882.34	17.5	15.0	1.00%	15"	TYPE I	-
* P-9B	S-9A	S-9B	883.34	884.77	32.0	28.5	5.00%	12"	TYPE I	-
* P-9C	S-9B	S-9C	884.77	885.22	32.0	30	1.50%	12"	TYPE I	-
* P-10	S-10	S-11	882.65	882.92	28.0	24.5	1.10%	15"	TYPE I	-
* P-11	S-11	S-12	882.92	883.08	34.0	31.5	0.50%	12"	TYPE I	-
* P-12	S-12	S-13	883.08	883.31	49.5	46.5	0.50%	12"	TYPE I	-
P-19	S-7	S-19	873.03	873.05	11.0	6.5	0.31%	36"	TYPE I	-
VILLAGER MALL ALLEY										
P-20	S-19	S-20	873.05	873.75	173.0	171.0	0.41%	36"	TYPE I	-
P-21	S-20	S-21	877.60	878.66	33.5	30.5	3.49%	12"	TYPE II	-
* P-22	S-22	S-23	877.25	880.01	24.0	23.0	12.00%	12"	TYPE II	-
* P-24	S-24	S-25	878.50	880.37	23.0	22.0	8.50%	12"	TYPE II	-
P-26	S-26	S-27	881.29	882.19	24.5	22.5	4.00%	12"	TYPE II	-
P-21A	S-21A	S-21B	875.83	876.32	7.0	6.0	8.17%	12"	TYPE II	-

ADJUST STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	EX TOC	PROP TOC	NOTES
VILLAGER MALL ALLEY						
ADJ-1	102+10.00	LT-1.25	INLET	881.25	881.52	[1], 6" OF EXISTING ADJUSTMENT
ADJ-2	103+53.40	LT-1.40	INLET	883.00	883.17	[1], 7" OF EXISTING ADJUSTMENT
ADJ-3	104+52.90	LT-1.30	INLET	885.80	885.90	[1], 6" OF EXISTING ADJUSTMENT

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] CONTRACTOR SHALL REMOVE EX CASTING AND SALVAGE FOR USE ON NEW STORM STRUCTURES. ADJUSTMENT SHALL INCLUDE NEW R-3067-7004-V PROVIDED BY CONTRACTOR

[2] PAID AS STANDARD BID ITEM 50499 (CONCRETE COLLAR)

[3] TYPE I HERCP STORM SEWER PIPE

[4] CONNECT EXISTING 36" RCP STORM SEWER

[5] RECONNECT EXISTING PRIVATE STORM SEWER

STORM SEWER SCHEDULE

*REV 7/3/2017 KDF

HUGHED PLACE STORM RELIEF - 2017	SHEET NO.
PROJECT NO. 11491	U-7
STORM SEWER SCHEDULE	
HUGHES PL	CITY OF MADISON

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
HUGHES PLACE					
R-1	IN 4864-021	27+01.50	LT-23.50	INLET	-
R-2	IN 4864-016	24+73.25	CL	4X4 SAS	-
R-3	IN 4864-017	23+23.75	CL	4X4 SAS	-
R-30	N/A	20+11.00	RT-25.50	INLET	-
VILLAGER MALL ALLEY					
R-10	PVT INLET	100+18.50	RT-12.00	4X4 SAS	-
R-11	PVT INLET	100+49.91	RT-17.37	4X4 SAS	-
R-12	PVT INLET	102+02.00	RT-5.50	TRENCH DRAIN	[1]
METRO TRANSFER POINT					
R-20	PVT INLET	12+56.00	CL	INLET	[2]

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
METRO TRANSFER POINT					
* ULO1	10+42.10	RT-1.35	6" PLASTIC FIBER	872.57	[4], CONFLICT
* ULO2A	10+95.60	LT-0.70	1" PLASTIC ELEC	878.27	OK, TOP OF STM = 875.50
* ULO2B	10+97.05	RT-2.00	5" PLASTIC ELEC	865.63	OK, BTM OF STM = 871.25
* ULO2C	10+96.65	RT-1.05	5" PLASTIC ELEC	865.63	OK, BTM OF STM = 871.25
* ULO3A	11+15.90	LT-0.70	4" PLASTIC FIBER	877.45	OK, TOP OF STM = 875.54
* ULO3B	11+16.00	LT-0.40	3" PLASTIC TRAF	877.45	OK, TOP OF STM = 875.54
* ULO3C	11+16.10	LT-0.30	3" PLASTIC TRAF	877.26	OK, TOP OF STM = 875.54
* ULO4A	12+25.50	LT-14.25	8" STEEL GAS	873.70	[4], CONFLICT, STM TOP / BTM = 875.73 / 871.48
* ULO4B	12+24.90	LT-14.80	6" PLASTIC ELEC	876.18	[4], CONFLICT, STM TOP / BTM = 875.73 / 871.48
* ULO5A	12+32.10	LT-11.20	4" PLASTIC FIBER	874.86	[4], CONFLICT, STM TOP / BTM = 875.74 / 871.49
* ULO5B	12+29.10	LT-12.50	3" PLASTIC FIBER	872.87	[4], CONFLICT, STM TOP / BTM = 875.74 / 871.49
* ULO6A	14+71.65	LT-0.25	5" PLASTIC ELEC	878.10	OK, TOP OF STM = 876.17
* ULO6B	14+71.30	LT-0.25	5" PLASTIC ELEC	878.09	OK, TOP OF STM = 876.17
* ULO7A	15+01.95	RT-1.35	8" PLASTIC ELEC	878.94	OK, TOP OF STM = 876.22
* ULO7B	15+01.60	RT-1.70	8" PLASTIC ELEC	878.91	OK, TOP OF STM = 876.22
* ULO101	11+06.50	LT-0.35	DUCT	870.99	OK, BTM OF STM = 871.26
HUGHES PLACE					
* ULO8A	26+30.45	RT-22.65	1" PLASTIC TELE	877.74	OK, BTM OF STM = 876.53
* ULO8B	26+30.05	RT-21.70	3" PLASTIC GAS	877.39	OK, BTM OF STM = 876.53
* ULO8C	26+28.80	RT-20.35	2" PLASTIC ELEC	877.75	OK, BTM OF STM = 876.53
* ULO8D	27+00.00	LT-26.10	8" PLASTIC TELE	875.92	OK
* ULO8E	27+00.10	LT-26.35	8" PLASTIC TELE	875.82	OK
* ULO9	26+27.77	RT-17.07	TELE	-	SEE ULO8C
* ULO10	26+36.25	RT-25.25	1" PLASTIC TELE	877.53	OK, BTM OF STM = 876.51
* ULO11A	24+79.25	RT-0.25	2" PLASTIC FIBER	883.43	OK, TOP OF STM = 876.81
* ULO11B	24+79.10	RT-0.15	2" PLASTIC FIBER	883.30	OK, TOP OF STM = 876.81
* ULO11C	24+78.75	RT-0.15	6" PLASTIC ELEC	883.27	OK, TOP OF STM = 876.81
* ULO11D	24+78.55	RT-0.20	6" PLASTIC ELEC	883.63	OK, TOP OF STM = 876.81
* ULO11E	24+78.30	RT-0.15	6" PLASTIC ELEC	883.26	OK, TOP OF STM = 876.81
* ULO11F	24+54.40	LT-1.50	3" PLASTIC GAS	882.59	OK, TOP OF STM = 876.25
* ULO102	22+73.35	LT-0.45	1" PLASTIC GAS	884.63	OK, TOP OF STM = 883.38
* ULO103	20+25.10	RT-29.65	1" PLASTIC TRAF	884.05	-
* ULO104	20+11.20	RT-32.30	1" PLASTIC TRAF	884.43	[3], CONFLICT

SPECIFIC NOTES

- [1] TRENCH DRAIN REMOVAL SHALL BE PAID UNDER BID ITEM 20313 - REMOVE INLET
 [2] CONTRACTOR SHALL PLUG OUTLET PIPE. PIPE PLUG INCIDENTAL TO INLET REMOVAL
 * [3] STORM SEWER REVISED, SEE PROPOSED STRUCTURES AND PROPOSED PIPE CHARTS FOR CHANGES
 * [4] CONTRACTOR TO COORDINATE WITH PRIVATE UTILITY OWNER TO RELOCATE AND RESOLVE CONFLICT

REMOVE STORM PIPES

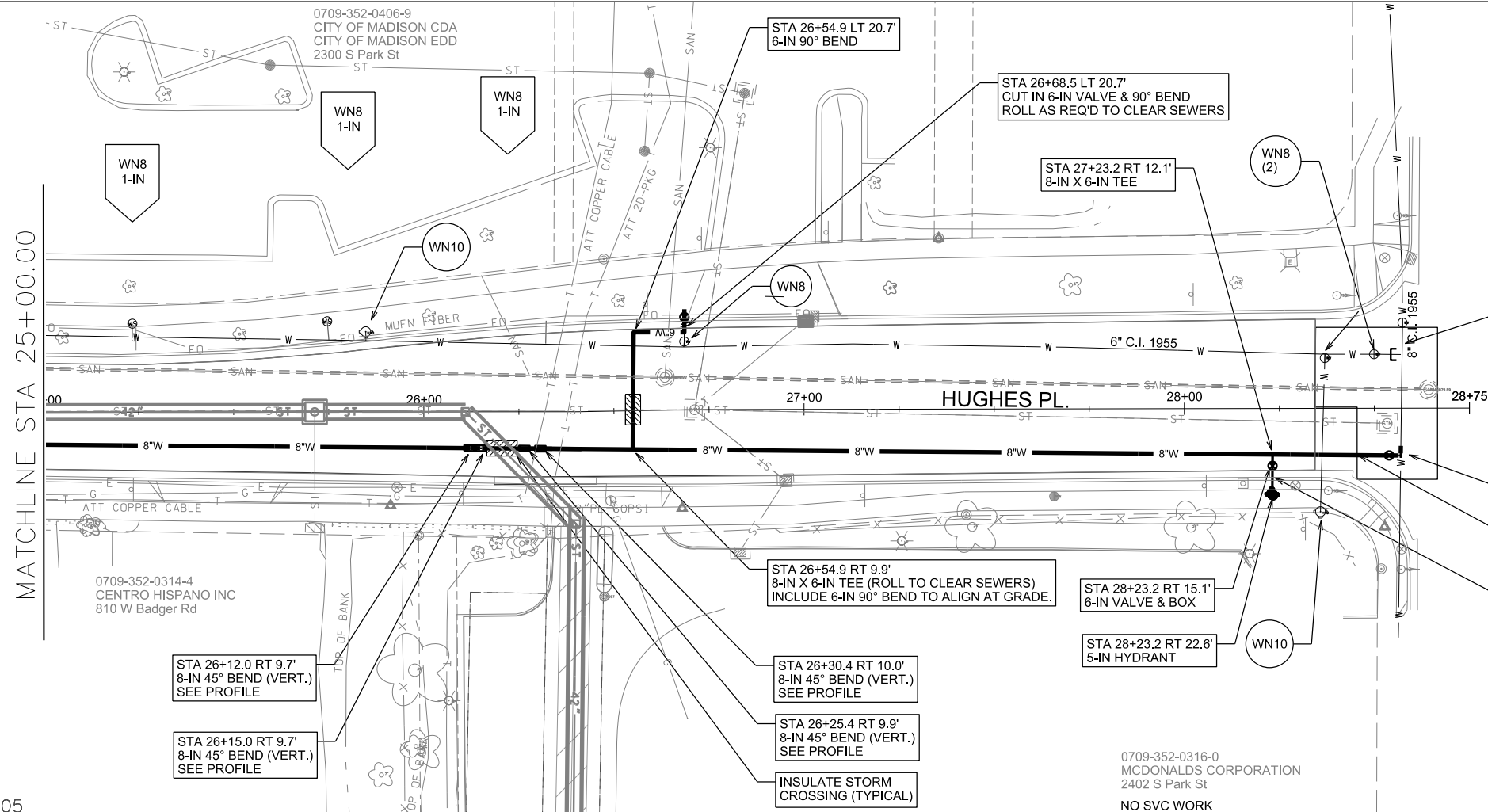
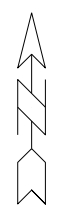
REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
HUGHES PLACE							
RP-1	S-5A	R-2	138	15"	RCP	N	-
RP-2	R-2	R-3	150	15"	RCP	N	-
RP-3	AS 4864-013	S-5A	60	15"	RCP	Y	-
VILLAGER MALL ALLEY							
RP-10	PP-1	R-10	10	15"	PVC	N	-
RP-11	R-10	R-11	29	15"	PVC	N	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
HUGHES PLACE					
* ULO12A	24+31.15	LT-18.55	6" PLASTIC ELEC	884.19	OK, TOP OF STM = 876.42
* ULO12B	24+31.05	LT-19.05	1" PLASTIC ELEC	884.29	OK, TOP OF STM = 876.42
* ULO12C	24+31.05	LT-18.95	1" PLASTIC ELEC	884.14	OK, TOP OF STM = 876.42
* ULO13A	24+31.60	LT-22.55	6" PLASTIC FIBER	883.11	OK, TOP OF STM = 876.46
* ULO13B	24+31.10	LT-22.25	3" PLASTIC GAS	883.91	OK, TOP OF STM = 876.46
* ULO14A	24+31.90	LT-32.55	2" PLASTIC TELE	884.07	OK, TOP OF STM = 876.48
* ULO14B	24+31.90	LT-32.55	2" PLASTIC TELE	883.86	OK, TOP OF STM = 876.48
* ULO15	24+02.30	LT-0.70	6" PLASTIC FIBER	884.62	OK, TOP OF STM = 882.81
* ULO16	24+64.35	LT-2.25	8" SAN. LAT.	879.74	OK, TOP OF STM = 876.23
* ULO17	21+97.20	LT-0.90	6" PLASTIC ELEC	886.05	OK, TOP OF STM = 883.77
* ULO18A	20+60.95	RT-19.50	1" PLASTIC TELE	885.08	OK, TOP OF STM = 884.64
* ULO18B	20+60.95	RT-19.00	3" PLASTIC TELE	884.48	[3], CONFLICT
* ULO18C	20+61.15	RT-18.55	2" PLASTIC TELE	882.29	OK, BTM OF STM = 883.01
* ULO18D	20+61.30	RT-18.60	2" PLASTIC TELE	882.29	OK, BTM OF STM = 883.01
* ULO18E	20+61.05	RT-16.50	3" PLASTIC TELE	885.28	OK, TOP OF STM = 884.64
* ULO18F	20+60.85	RT-16.65	3" PLASTIC TELE	884.67	[3], CONFLICT
* ULO18G	20+61.00	RT-16.75	6" PLASTIC ELEC	884.54	[3], CONFLICT
* ULO19	20+47.50	RT-29.15	3" PLASTIC GAS	883.67	[4], CONFLICT
* ULO20A	20+71.35	LT-13.25	2" PLASTIC TELE	884.07	[3], CONFLICT
* ULO20B	20+71.15	LT-13.25	2" PLASTIC TELE	884.06	[3], CONFLICT
* ULO21	20+66.50	LT-20.50	6" PLASTIC FIBER	885.25	OK, TOP OF STM = 884.57
* ULO22	20+47.90	LT-34.20	3" PLASTIC GAS	884.41	[3], CONFLICT
* ULO23	23+43.35	LT-0.65	1" PLASTIC GAS	885.51	OK, TOP OF STM = 883.09
* ULO24	23+37.85	RT-0.35	1" PLASTIC FIBER	885.22	OK, TOP OF STM = 883.11
* ULO25	23+34.40	LT-1.00	1" PLASTIC GAS	886.29	OK, TOP OF STM = 883.12
VILLAGER MALL ALLEY					
* ULO30A	100+21.45	RT-16.60	TOP OF CONC DUCT	877.99	-
* ULO30B	100+21.45	RT-16.60	BTM OF CONC DUCT	877.33	OK, TOP OF STM = 876.97
* ULO30C	100+21.20	RT-16.10	3" STEEL GAS	878.47	OK, TOP OF STM = 876.97
* ULO30D	100+20.75	RT-18.20	2" PLASTIC FIBER	878.71	OK, TOP OF STM = 876.97
* ULO30E	100+20.70	RT-18.55	2" PLASTIC FIBER	878.50	OK, TOP OF STM = 876.97
* ULO31	102+62.15	RT-9.95	3" STEEL GAS	878.22	[3], CONFLICT
* ULO32	103+11.20	RT-7.60	3" STEEL GAS	878.93	[3], CONFLICT

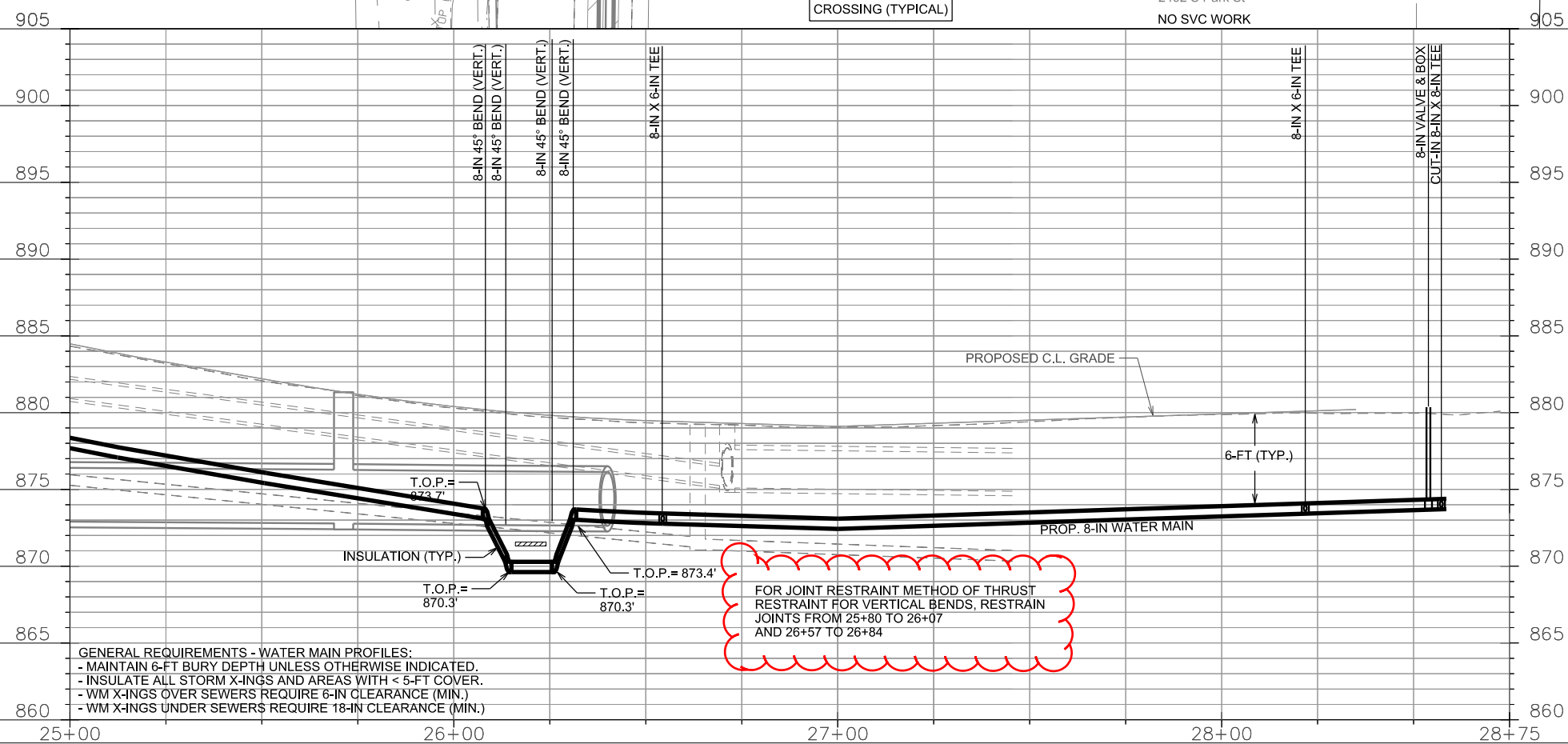
STANDARD NOTES:

- 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 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.



S. PARK ST.

REV 2 7-7-17 JOS
- Thrust joint restraint
stationing adjusted



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

FOR JOINT RESTRAINT METHOD OF THRUST RESTRAINT FOR VERTICAL BENDS, RESTRAIN JOINTS FROM 25+80 TO 26+07 AND 26+57 TO 26+84

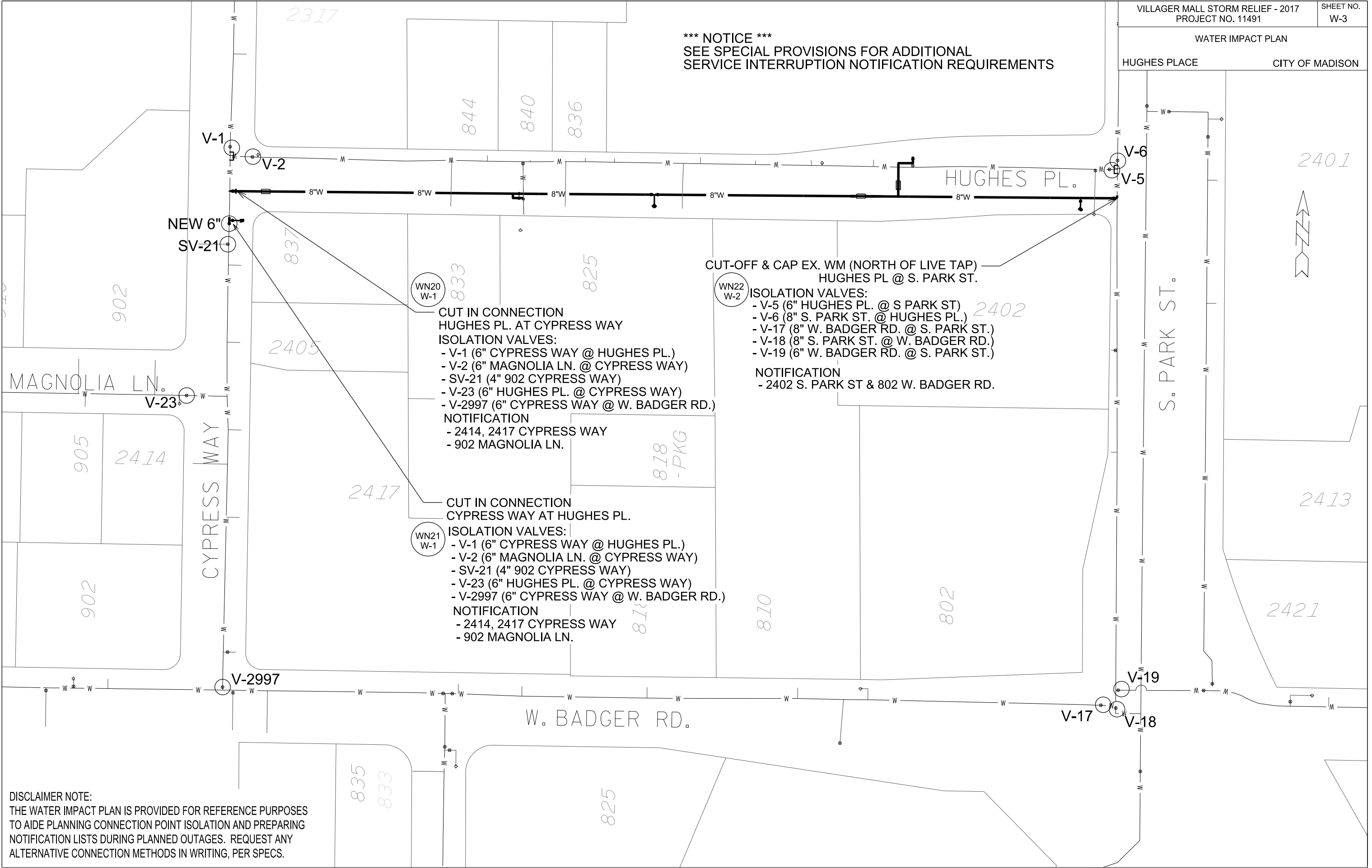
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

*** NOTICE ***
SEE SPECIAL PROVISIONS FOR ADDITIONAL
SERVICE INTERRUPTION NOTIFICATION REQUIREMENTS



CUT IN CONNECTION
HUGHES PL. AT CYPRESS WAY
ISOLATION VALVES:
- V-1 (6" CYPRESS WAY @ HUGHES PL.)
- V-2 (6" MAGNOLIA LN. @ CYPRESS WAY)
- SV-21 (4" 902 CYPRESS WAY)
- V-23 (6" HUGHES PL. @ CYPRESS WAY)
- V-2997 (6" CYPRESS WAY @ W. BADGER RD.)
NOTIFICATION
- 2414, 2417 CYPRESS WAY
- 902 MAGNOLIA LN.

CUT IN CONNECTION
CYPRESS WAY AT HUGHES PL.
ISOLATION VALVES:
- V-1 (6" CYPRESS WAY @ HUGHES PL.)
- V-2 (6" MAGNOLIA LN. @ CYPRESS WAY)
- SV-21 (4" 902 CYPRESS WAY)
- V-23 (6" HUGHES PL. @ CYPRESS WAY)
- V-2997 (6" CYPRESS WAY @ W. BADGER RD.)
NOTIFICATION
- 2414, 2417 CYPRESS WAY
- 902 MAGNOLIA LN.

CUT-OFF & CAP EX. WM (NORTH OF LIVE TAP)
HUGHES PL @ S. PARK ST.
ISOLATION VALVES:
- V-5 (6" HUGHES PL. @ S PARK ST.)
- V-6 (8" S. PARK ST. @ HUGHES PL.)
- V-17 (8" W. BADGER RD. @ S. PARK ST.)
- V-18 (8" S. PARK ST. @ W. BADGER RD.)
- V-19 (6" W. BADGER RD. @ S. PARK ST.)
NOTIFICATION
- 2402 S. PARK ST & 802 W. BADGER RD.

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

REV 2 7-7-17 JOS
- Materials updated to reflect plan changes

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 NOTFICATION INFORMATION.

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

- | | |
|----------------------|--------------------------|
| 110-FT - 6-IN PIPE | 5 - 6-IN 90° BEND |
| 820-FT - 8-IN PIPE | 6 - 8-IN 45° BEND |
| 6 - 6-IN VALVE & BOX | 1 - 8-IN X 12-IN SWEEP |
| 3 - 8-IN VALVE & BOX | 2 - 6-IN MJ CAP |
| 2 - 6-IN X 6-IN TEE | 3 - HYDRANT |
| 4 - 8-IN X 6-IN TEE | 1 - 8-IN TO 6-IN REDUCER |
| | 970-FT - POLY WRAP |
| | 40 - FT INSULATION |

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

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

DISCLAIMER NOTE:

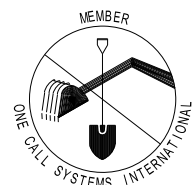
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

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

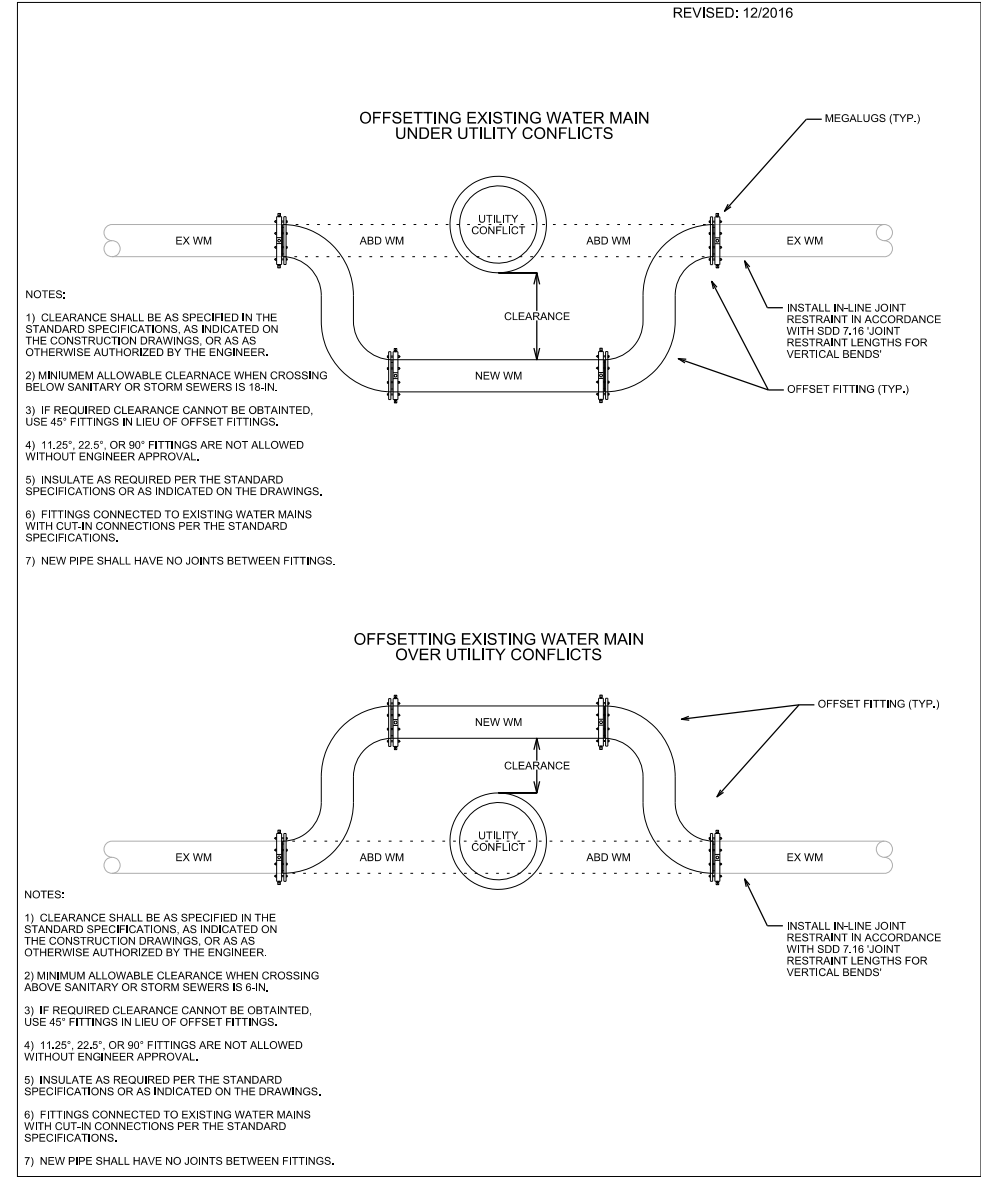
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511

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.

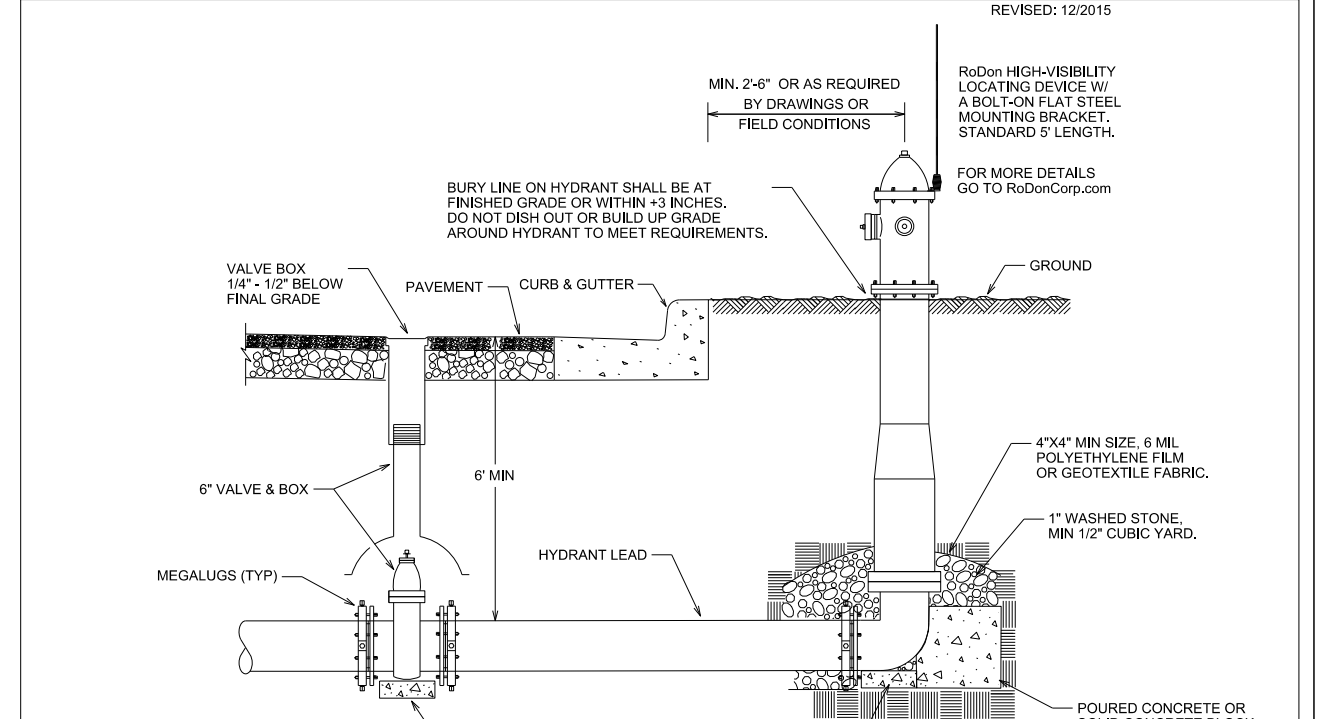


PART VII - WATER MAINS AND SERVICE LATERALS **DETAIL DRAWING NO. 7.22**
 REVISED: 12/2016



CITY OF MADISON WATER UTILITY NOT TO SCALE OFFSETTING EXISTING WATER MAIN UNDER UTILITY CONFLICTS

PART VII - WATER MAINS AND SERVICE LATERALS **DETAIL DRAWING NO. 7.04**
 REVISED: 12/2015



CITY OF MADISON WATER UTILITY NOT TO SCALE TYPICAL HYDRANT INSTALLATION

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

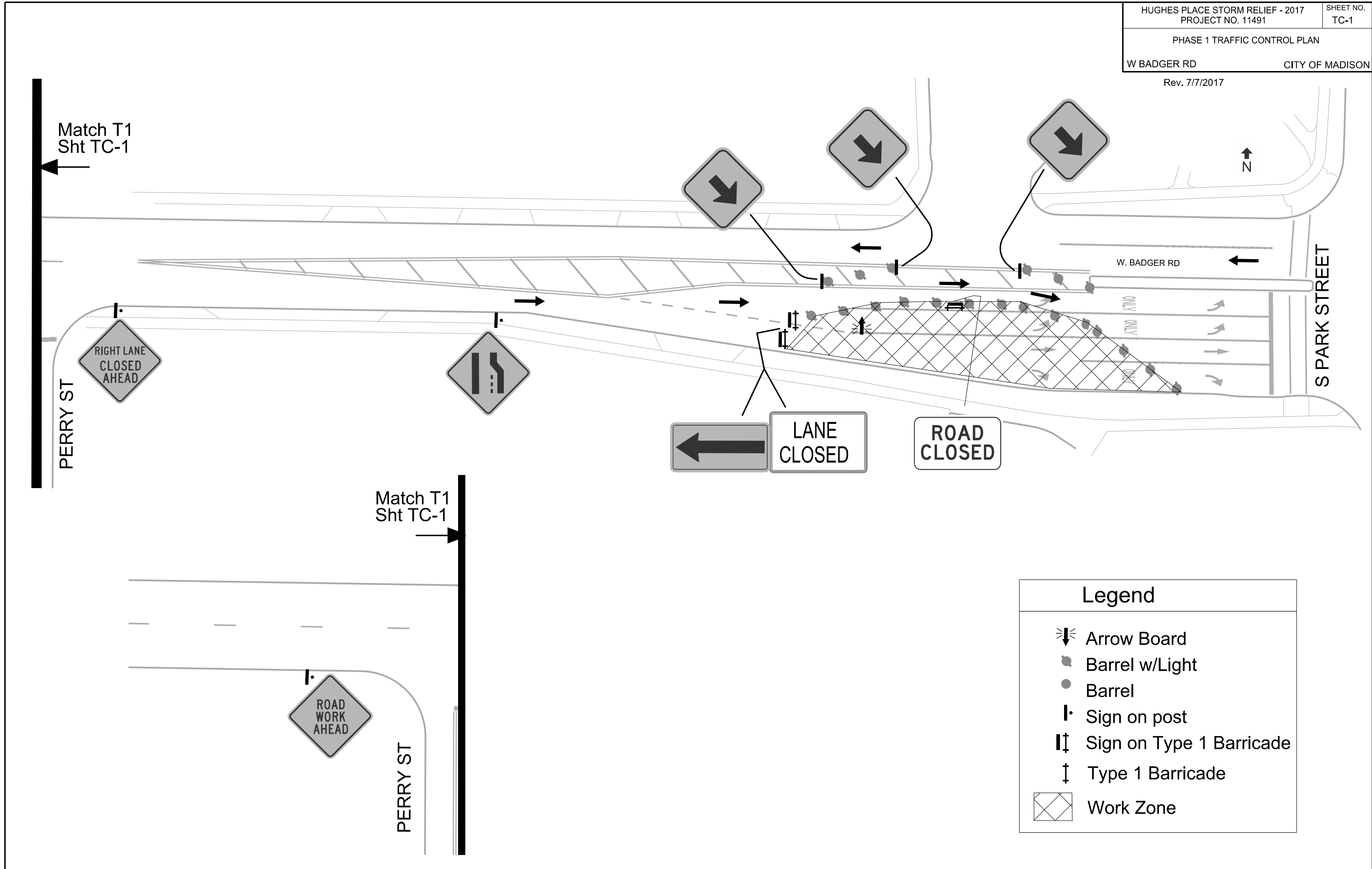
Rev. 7/7/2017

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Legend	
	Arrow Board
	Barrel w/Light
	Barrel
	Sign on post
	Sign on Type 1 Barricade
	Type 1 Barricade
	Work Zone

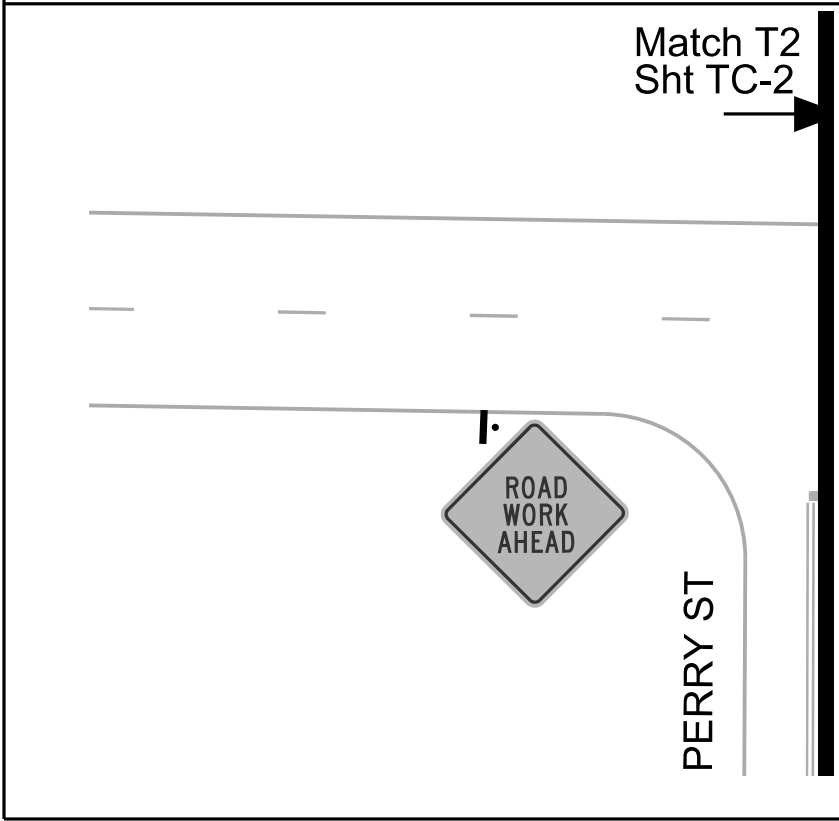
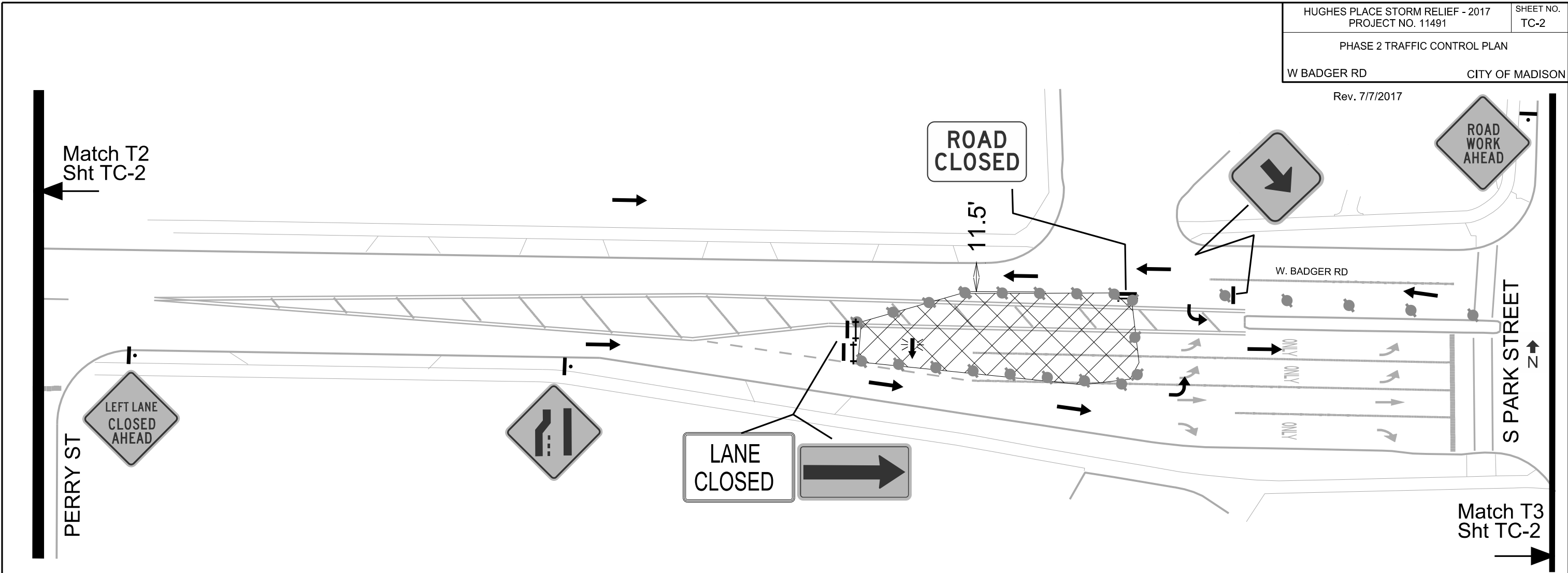
Rev. 7/7/2017

PLOT SCALE:

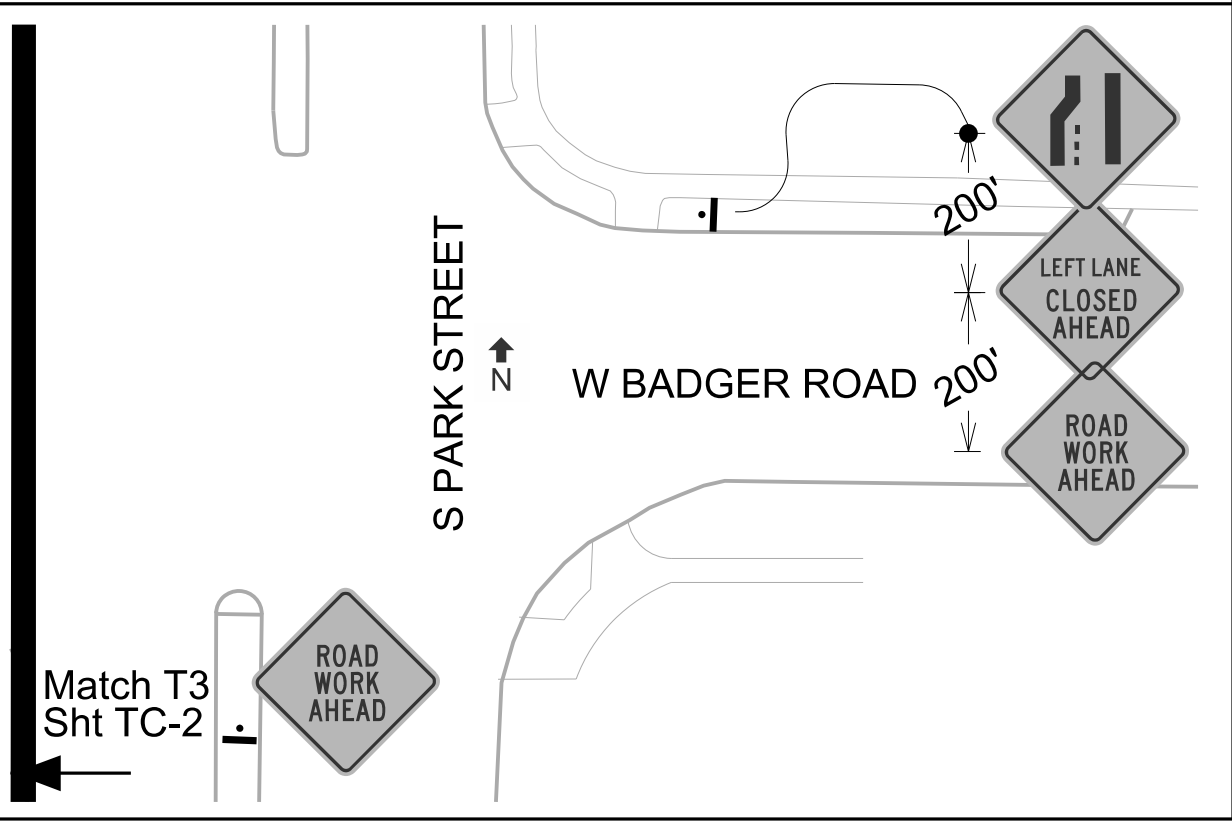
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REV. DATE:

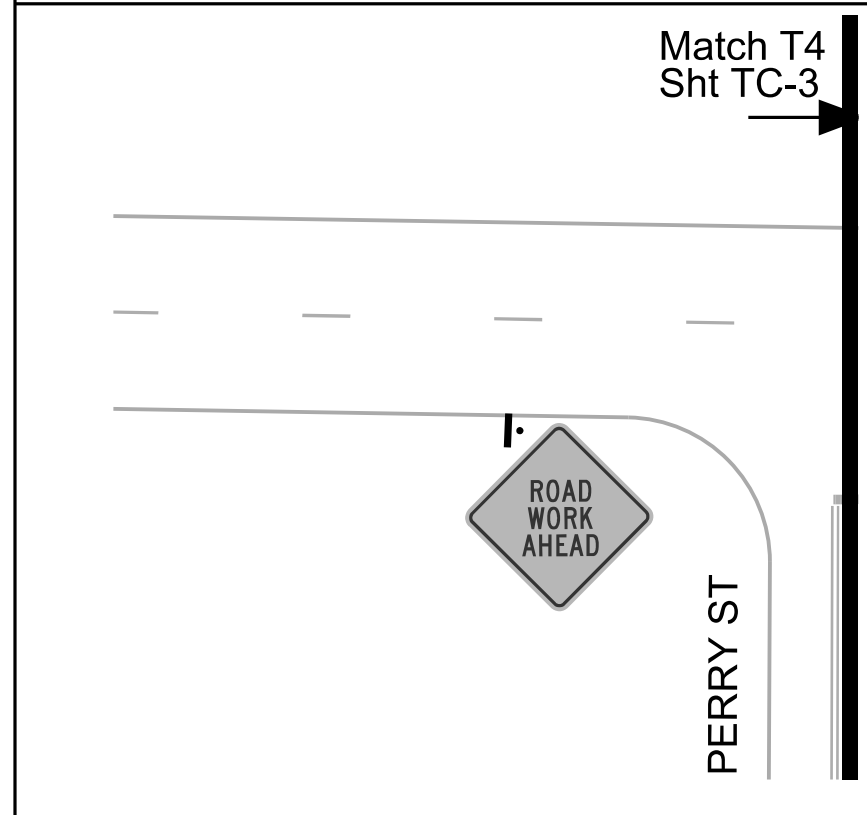
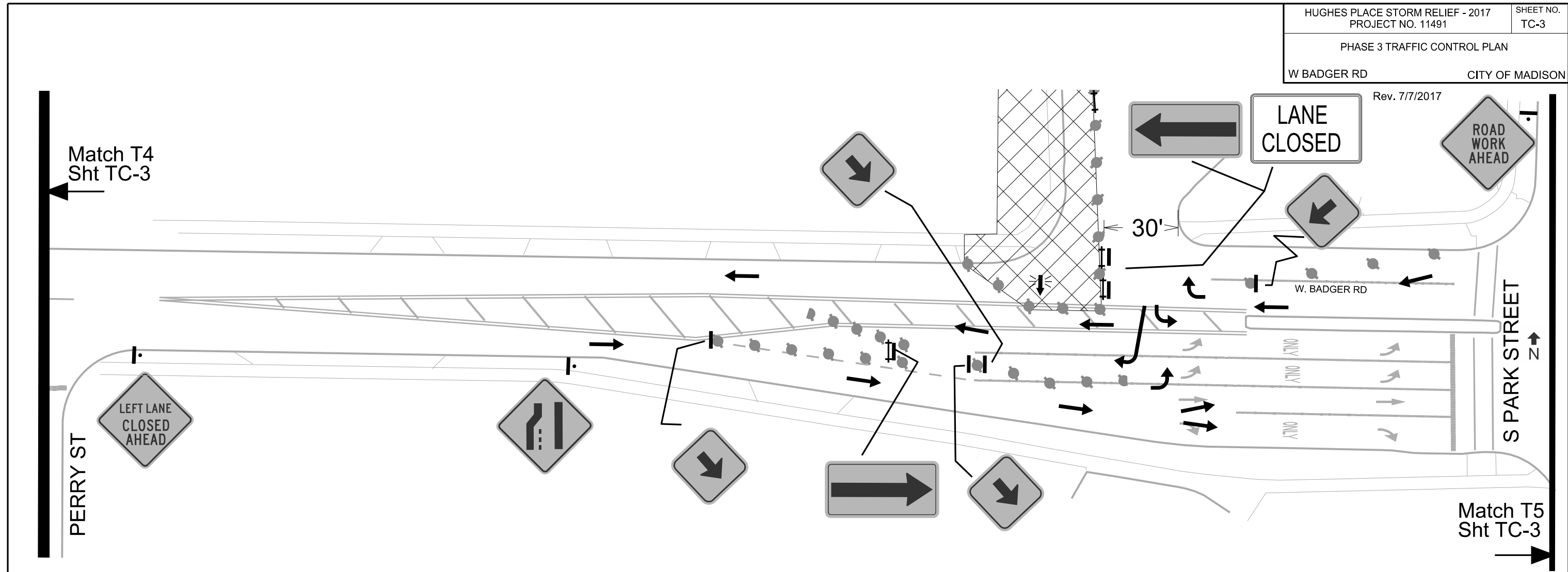
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



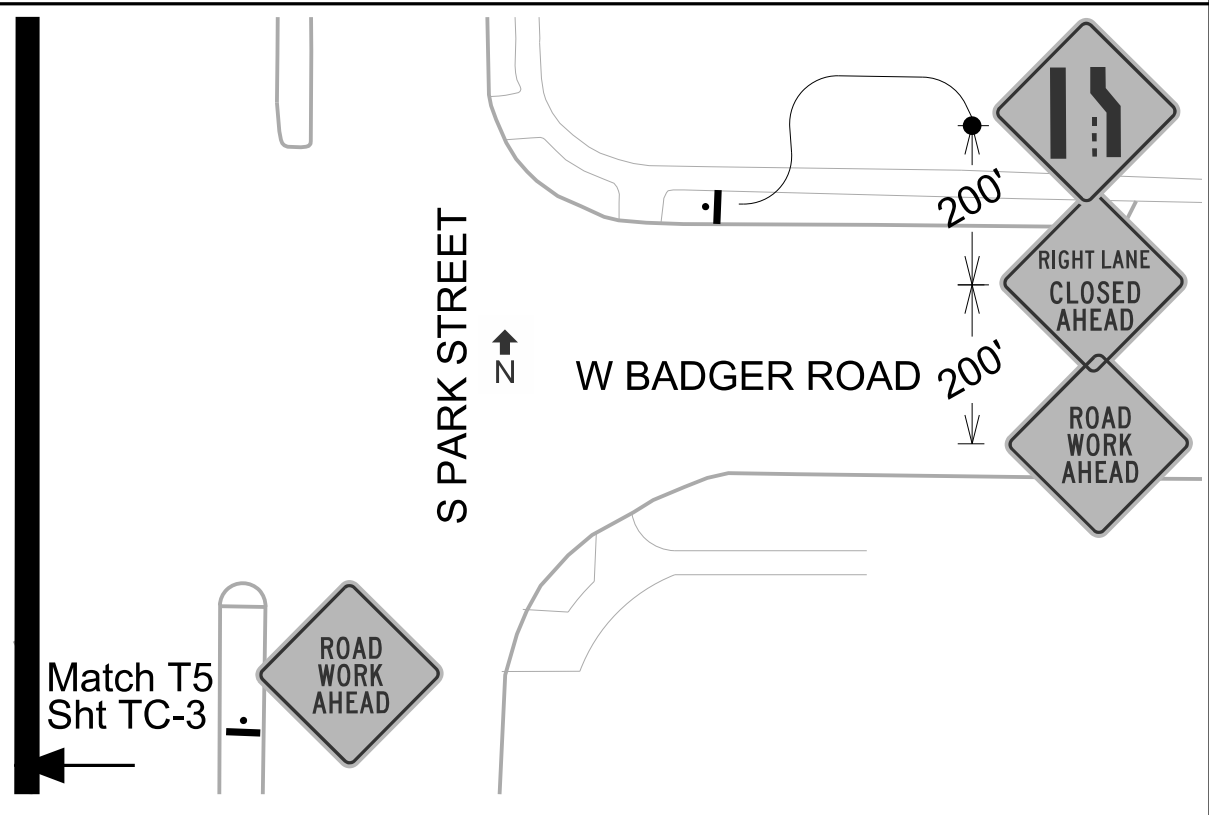
Legend	
	Arrow Board
	Barrel w/Light
	Barrel
	Sign on post
	Sign on Type 1 Barricade
	Type 1 Barricade
	Work Zone



PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Legend	
	Arrow Board
	Barrel w/Light
	Barrel
	Sign on post
	Sign on Type 1 Barricade
	Type 1 Barricade
	Work Zone

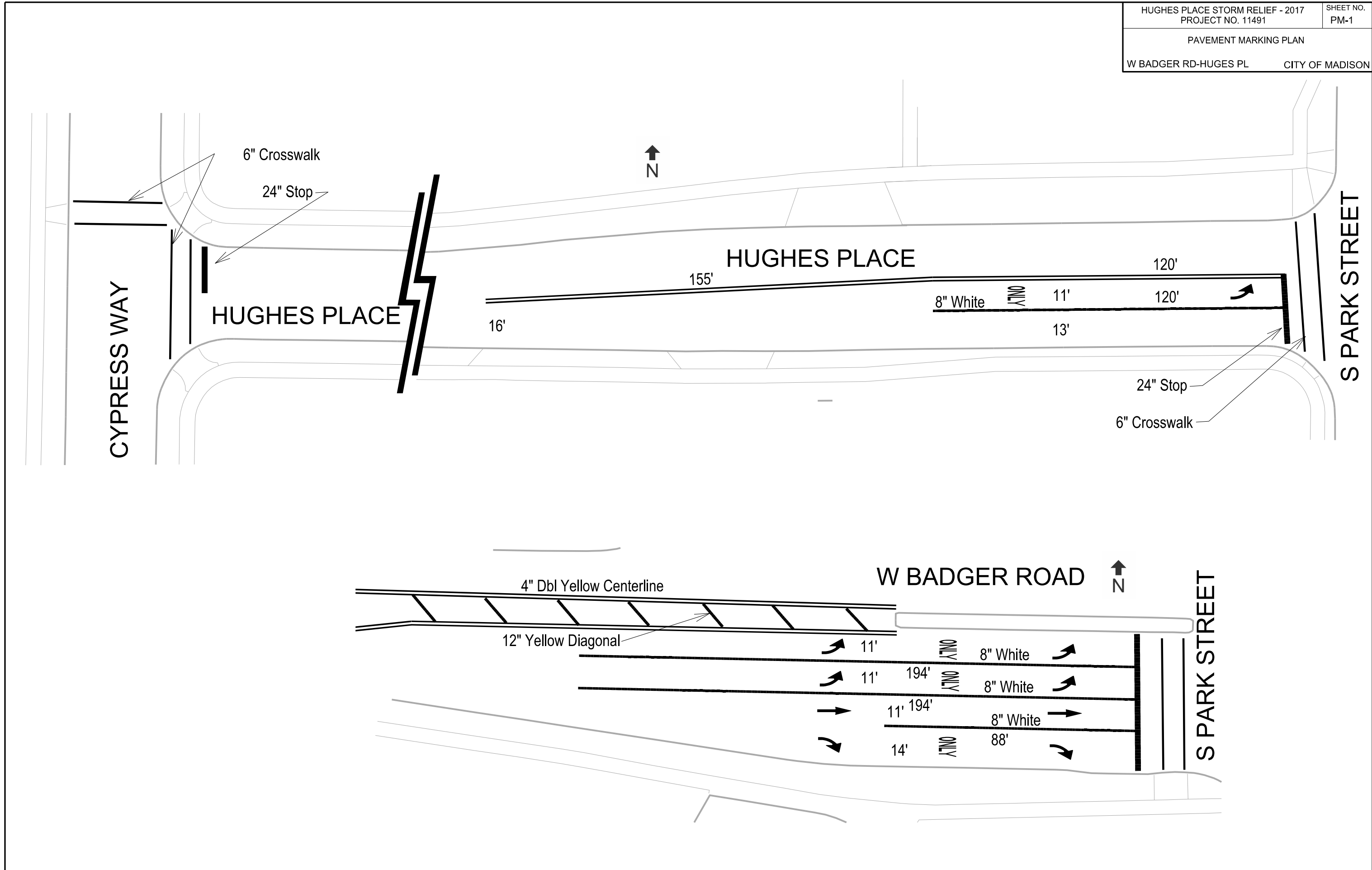


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

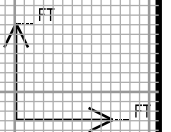
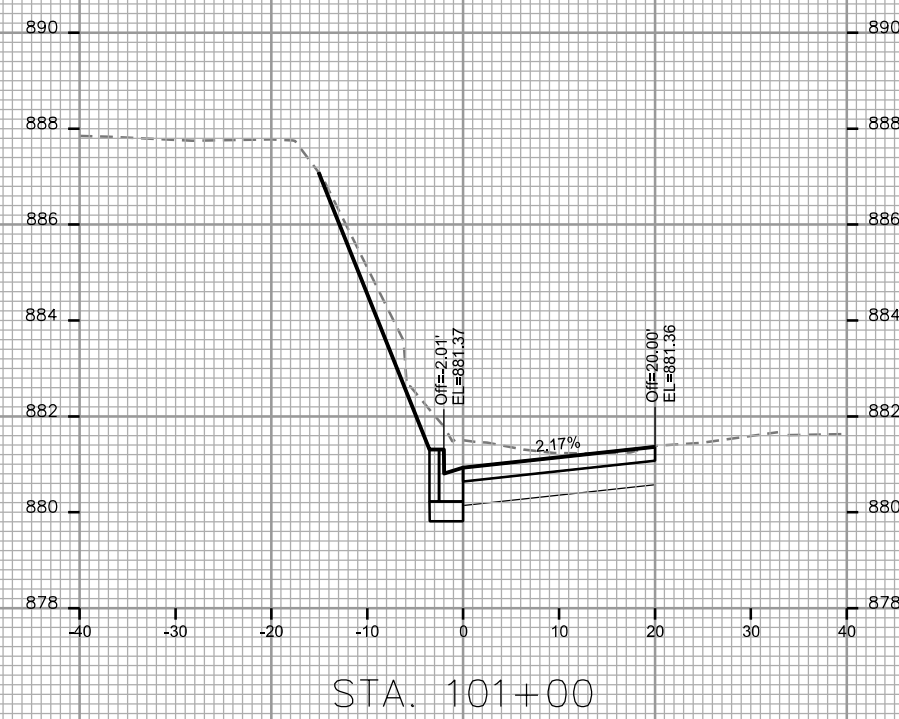
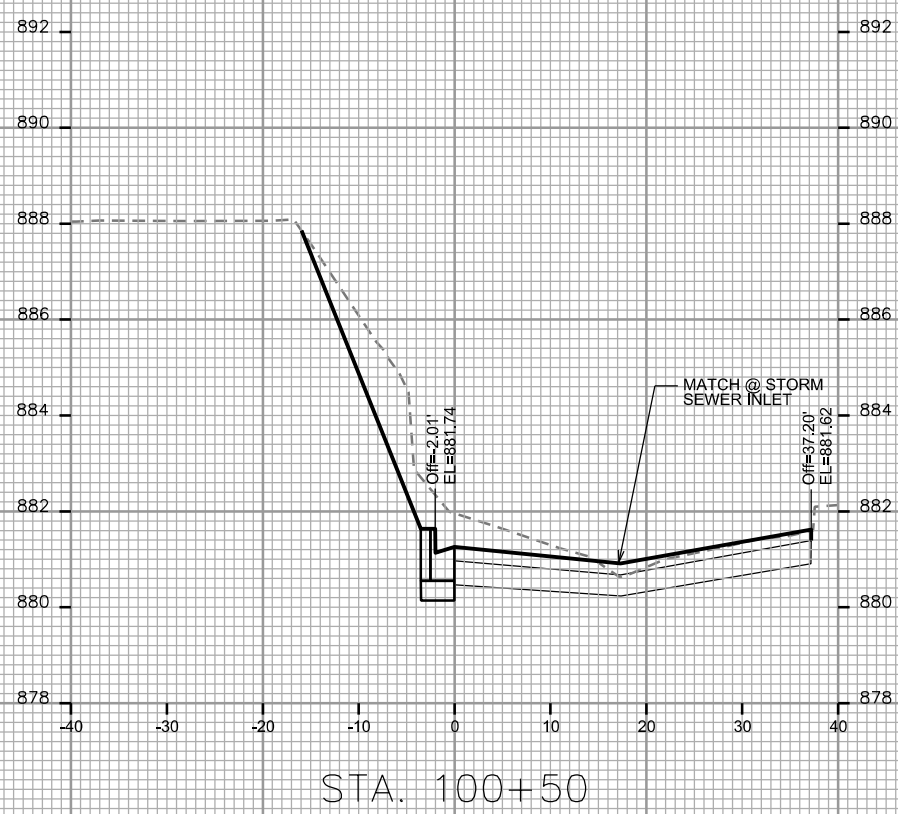
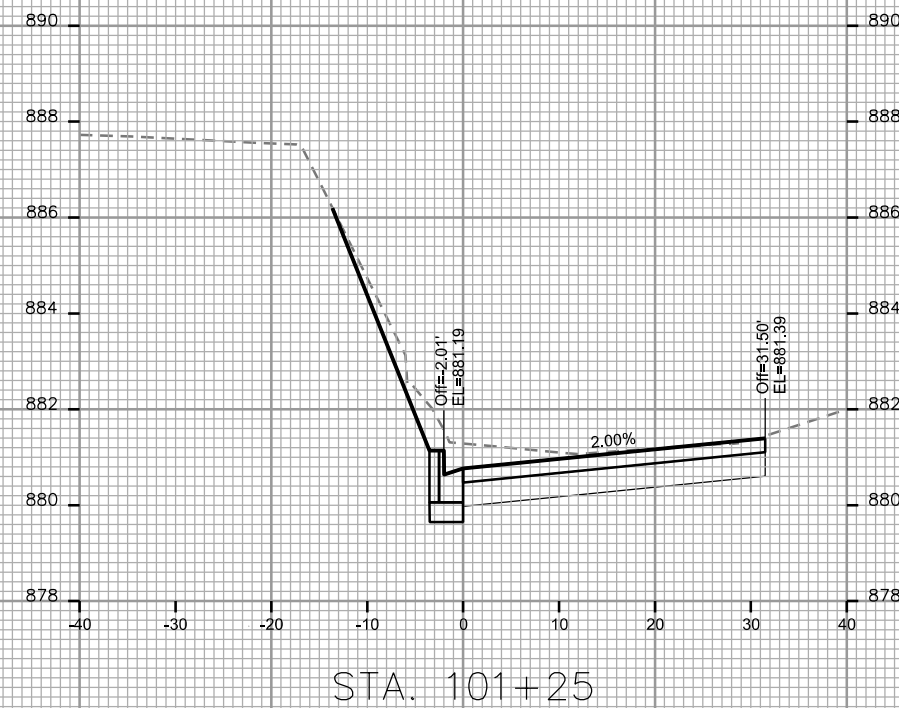


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

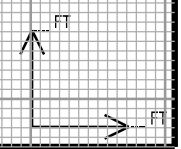
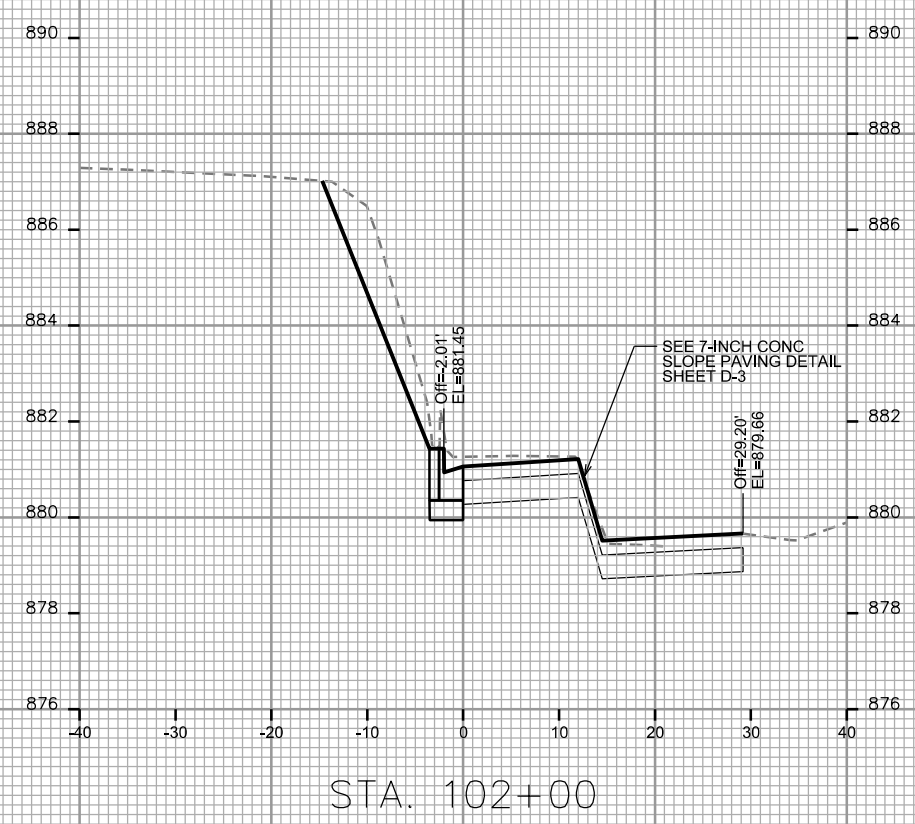
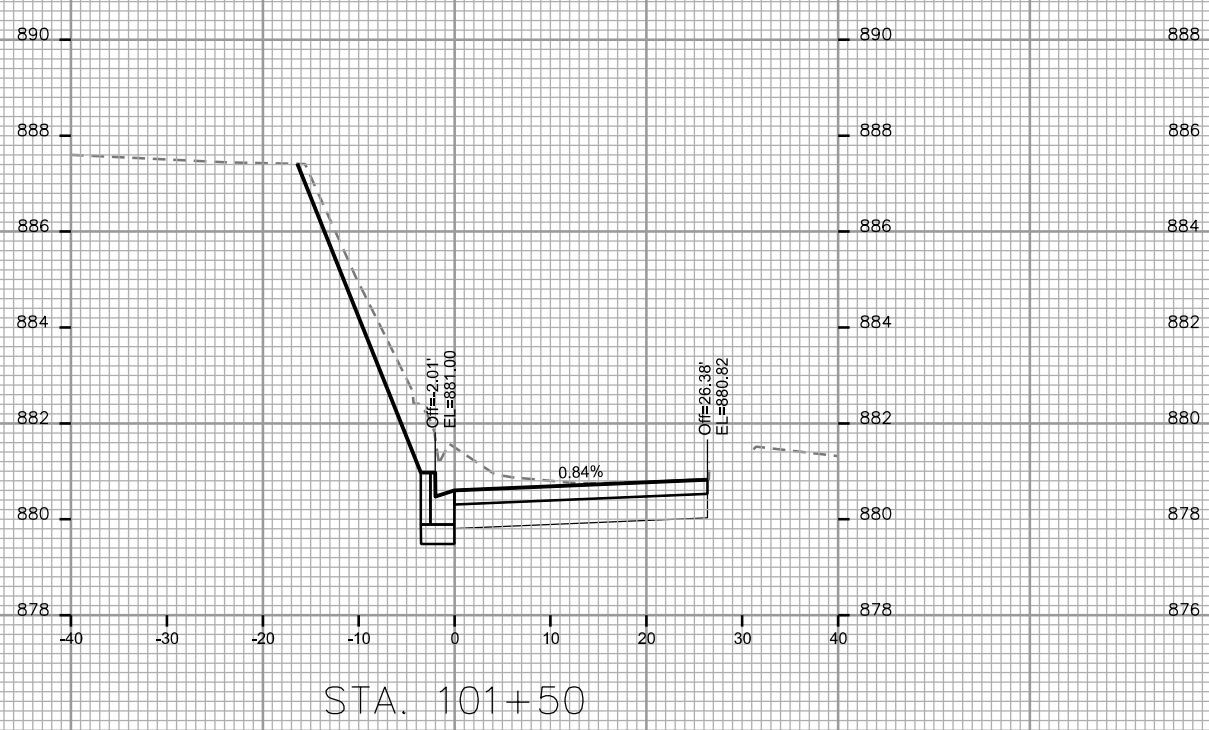
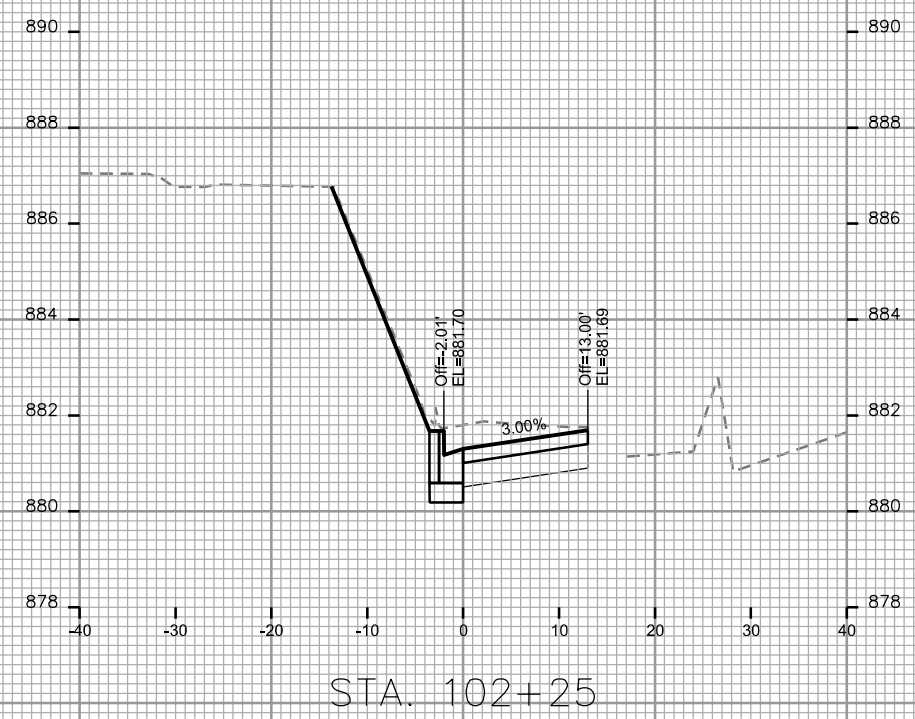
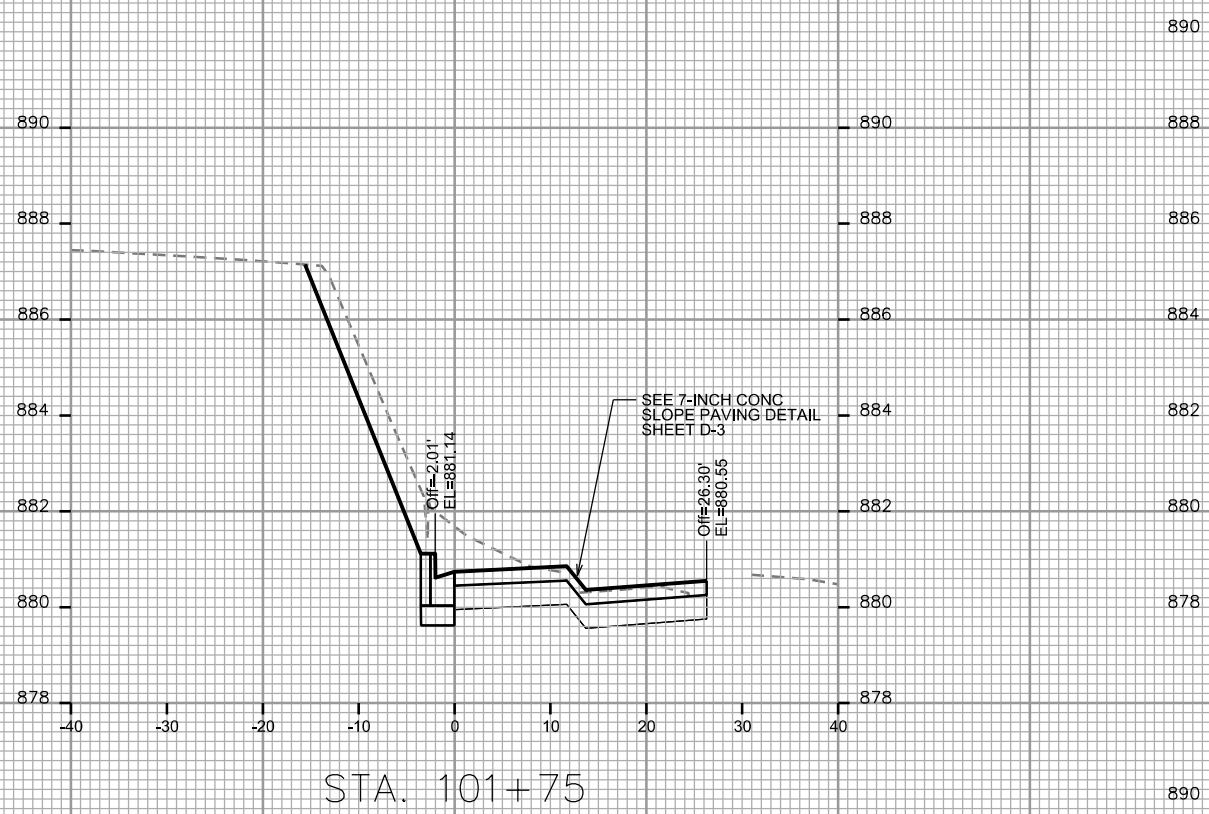


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

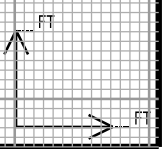
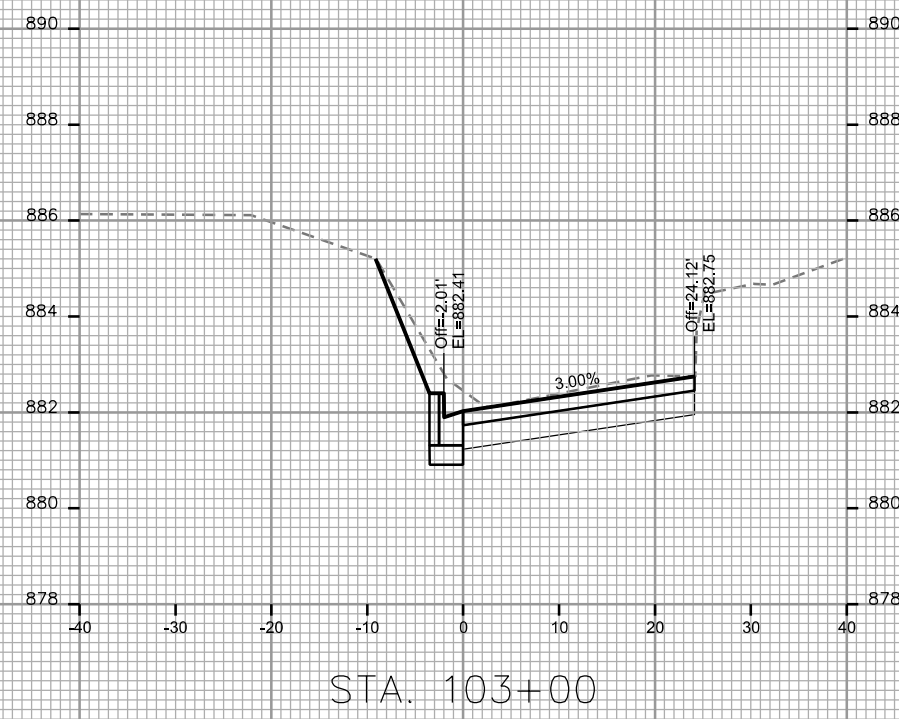
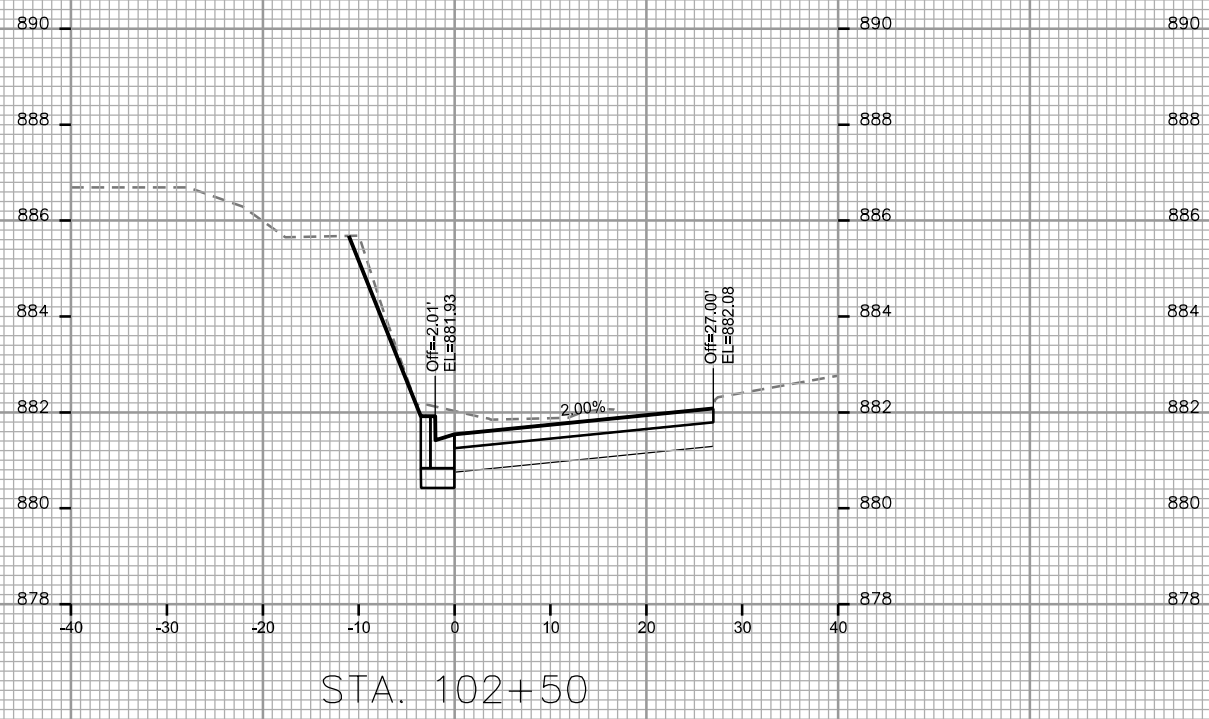
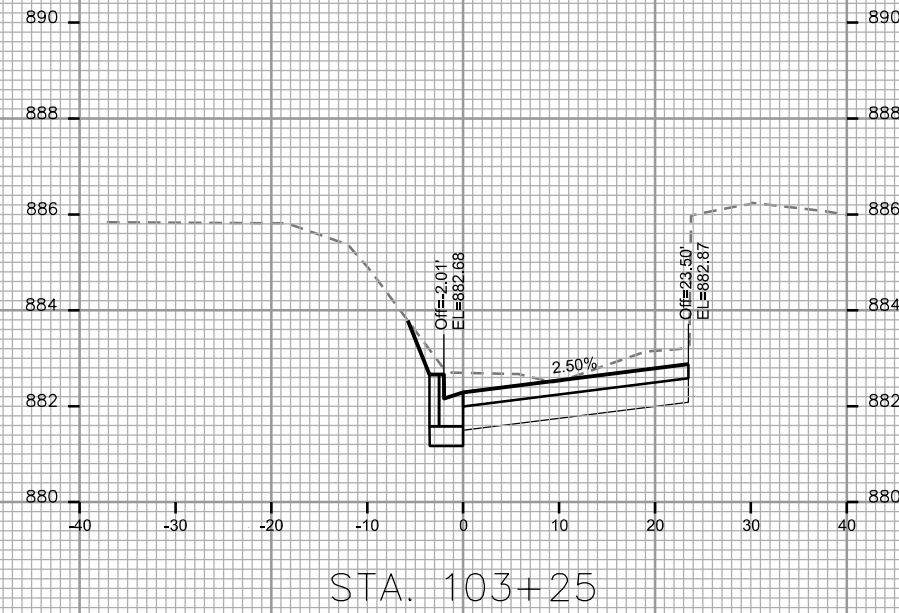
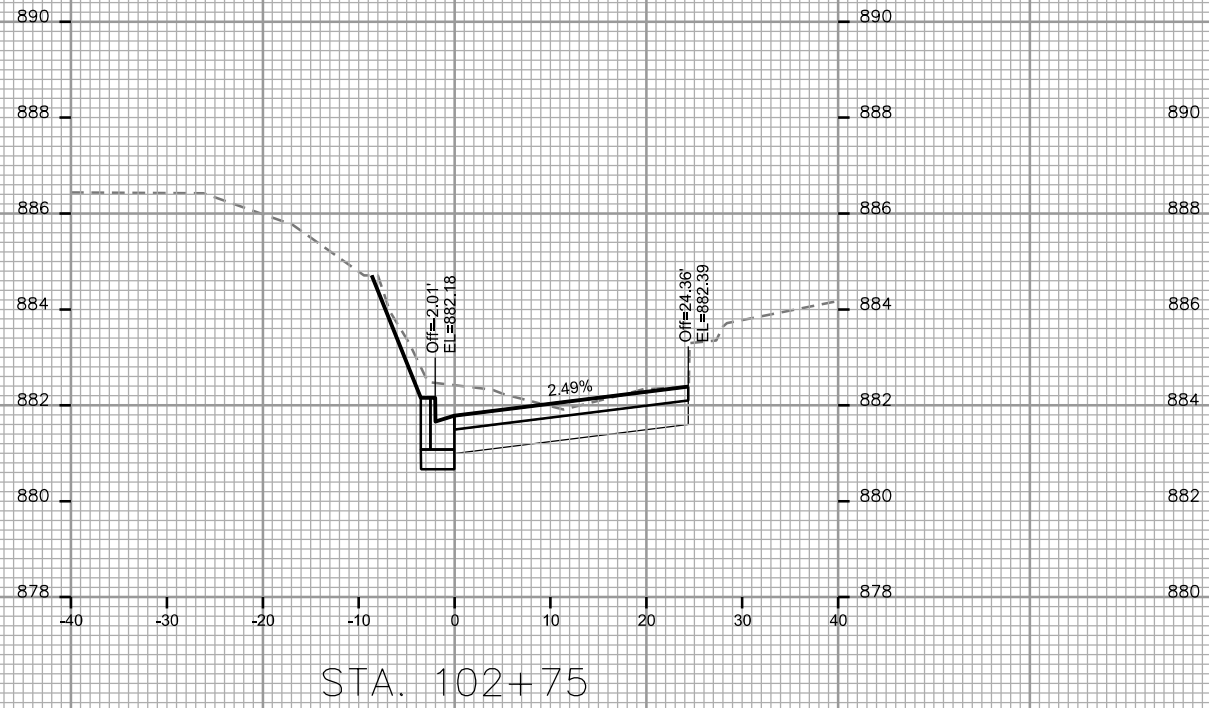


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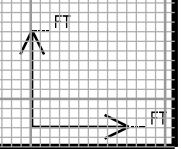
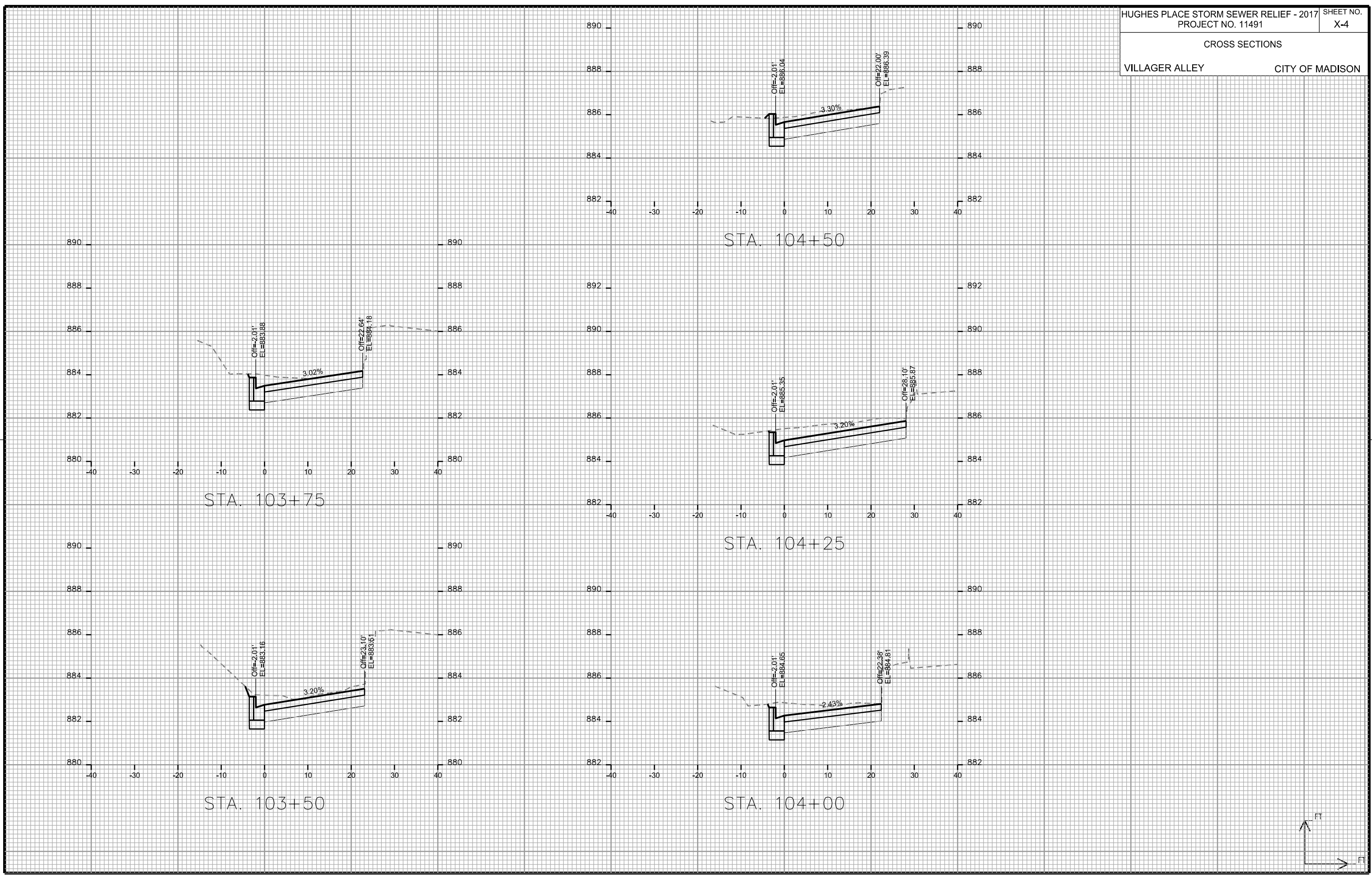
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 VILLAGER ALLEY CITY OF MADISON

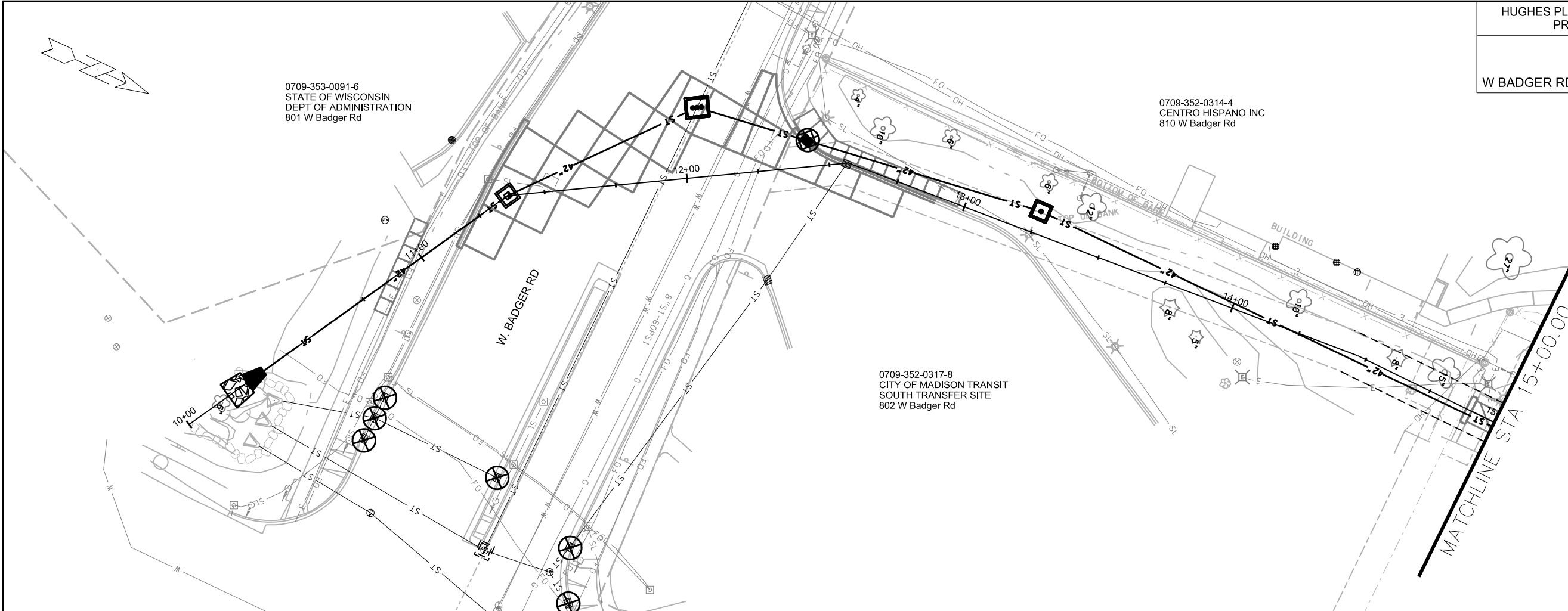
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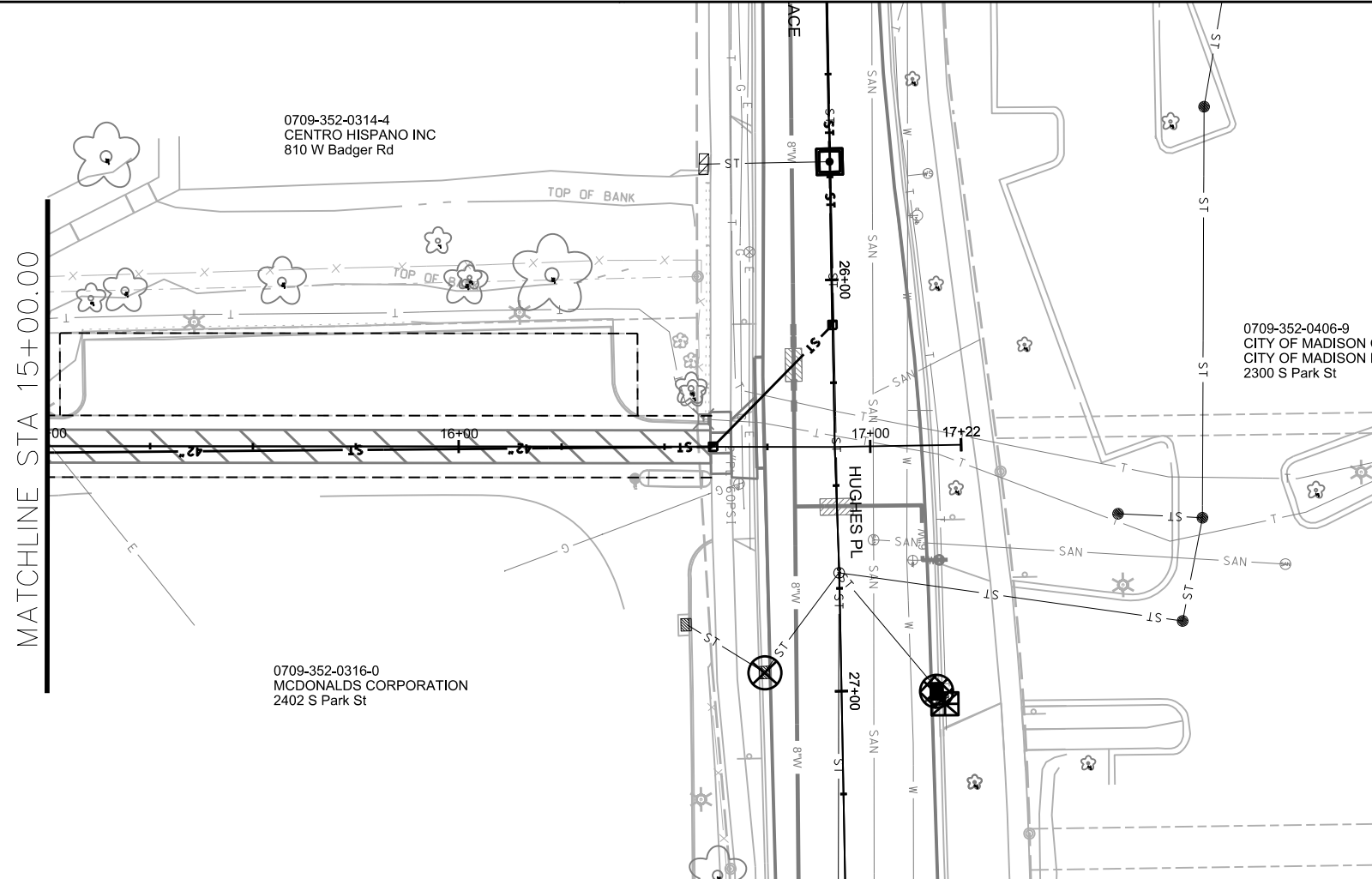
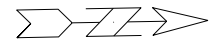
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	CONSTRUCTION ENTRANCE
	STREET CONSTRUCTION STONE BERM
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	TYPE B INLET PROTECTION

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

EROSION CONTROL
PLAN AND PROFILE

HUGHES PL

CITY OF MADISON



0709-352-0314-4
CENTRO HISPANO INC
810 W Badger Rd

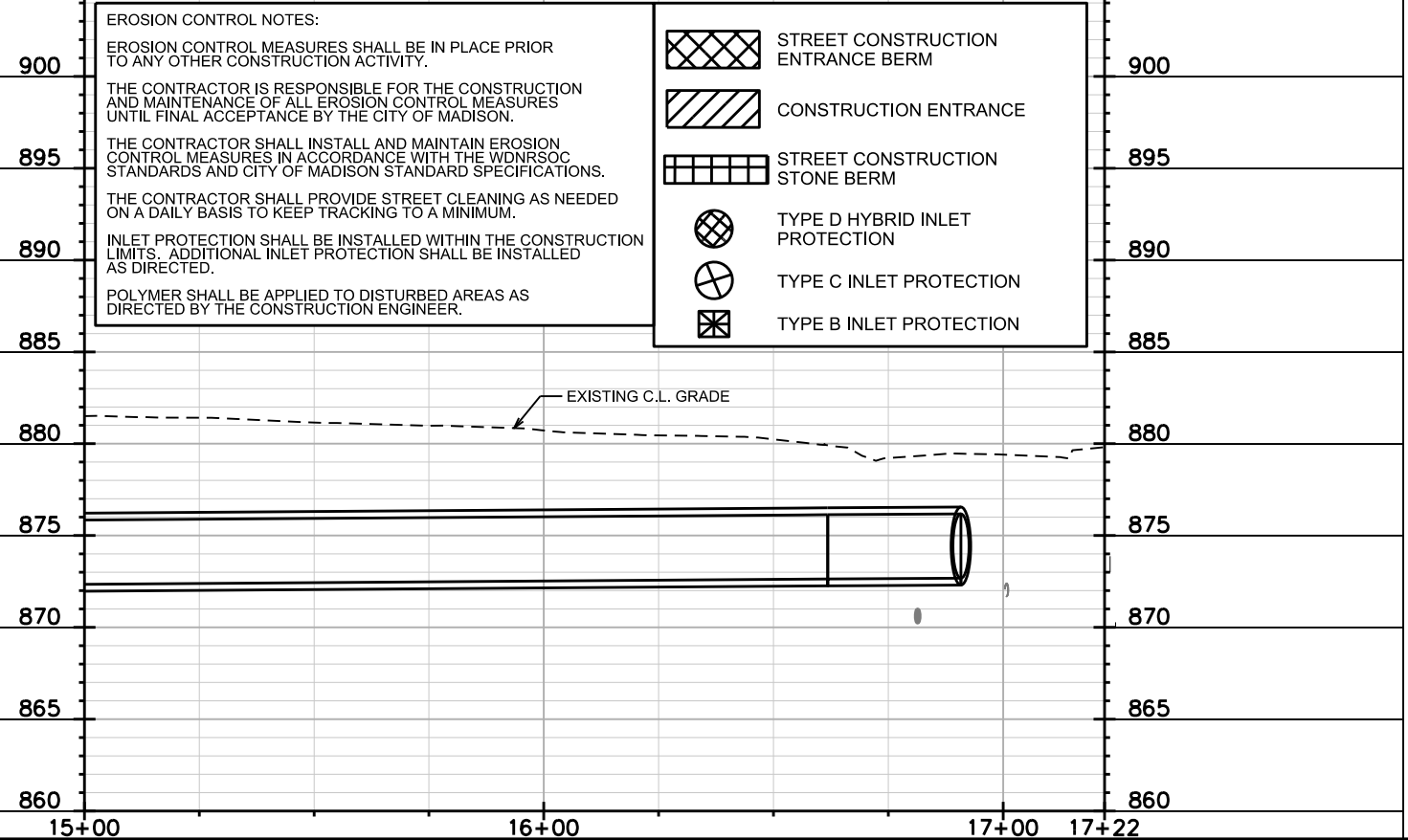
0709-352-0406-9
CITY OF MADISON CDA
CITY OF MADISON EDD
2300 S Park St

0709-352-0316-0
MCDONALDS CORPORATION
2402 S Park St

MATCHLINE STA 15+00.00

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.
INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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- STREET CONSTRUCTION STONE BERM
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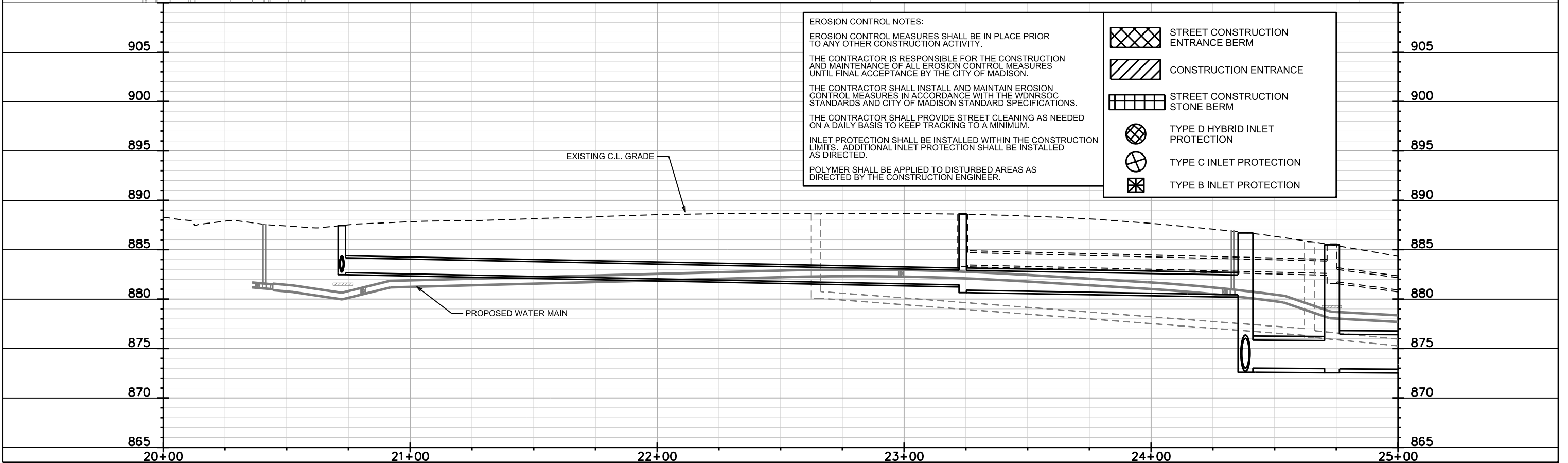
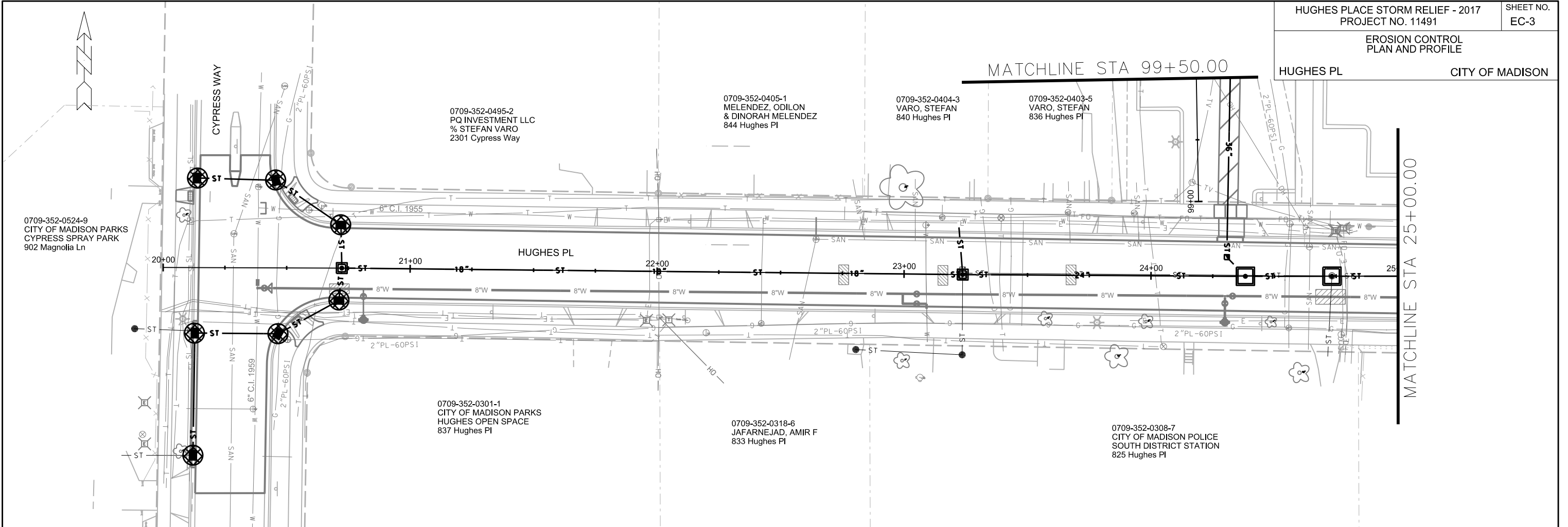
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EROSION CONTROL
PLAN AND PROFILE

HUGHES PL CITY OF MADISON

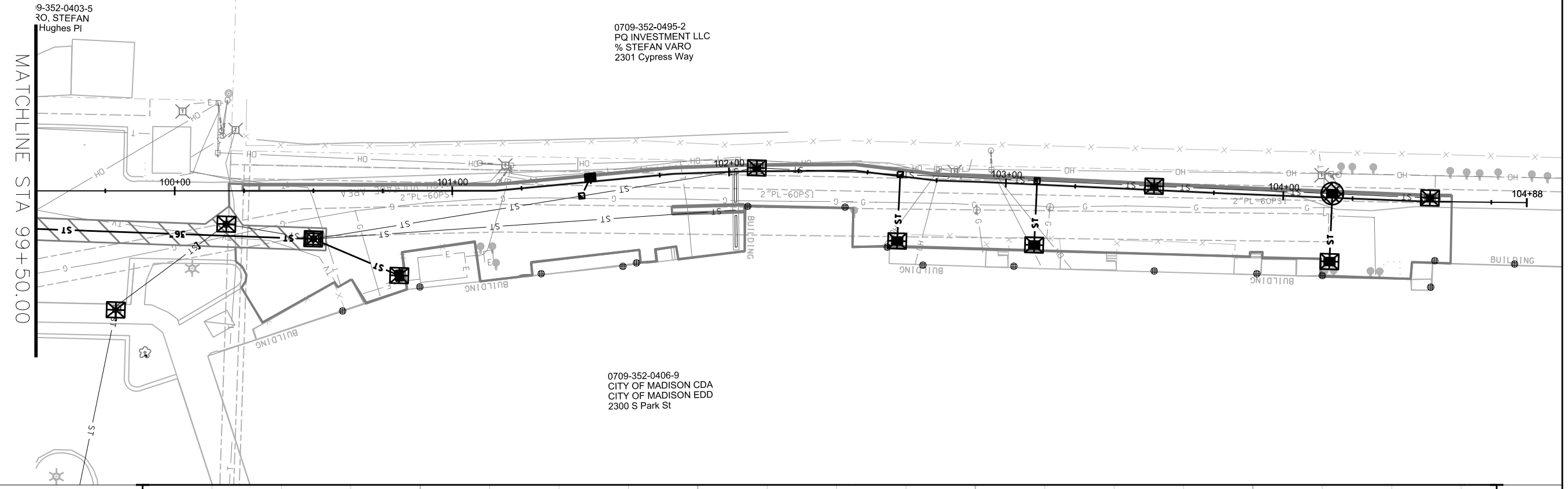
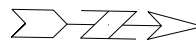


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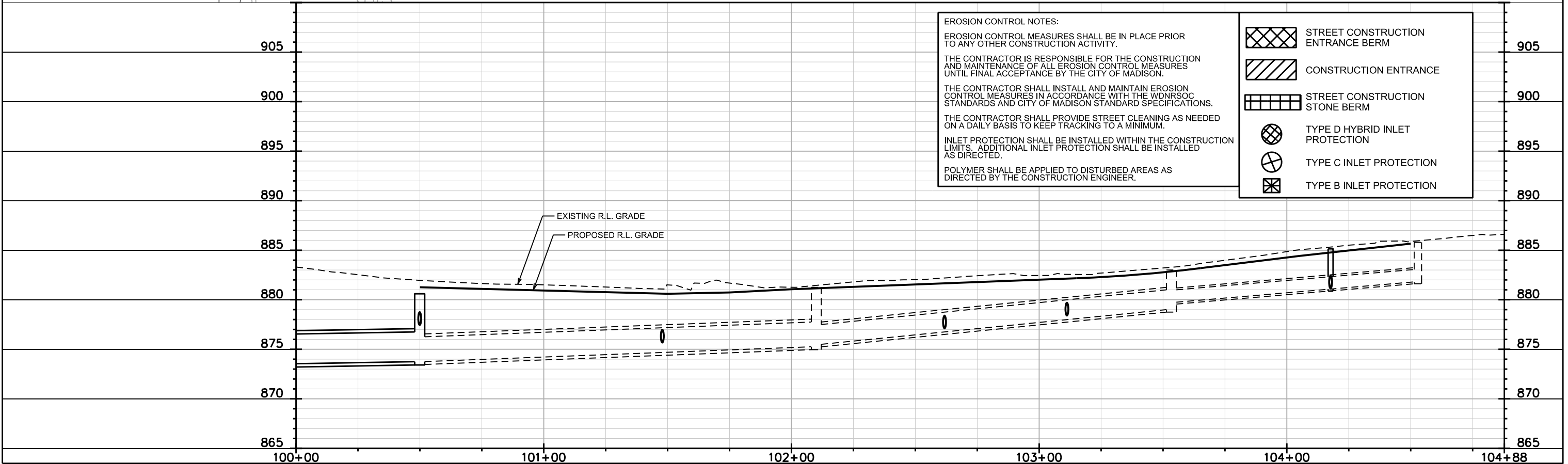


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



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