

FOREST HILL CEMETERY IMPROVEMENTS 2019

CONTRACT NUMBER: 8386
MUNIS NO. 19014-51-130

STORM SEWER AND ROADWAYS
DESIGNED BY:



City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
PO Box 2987
Madison, WI 53701-2987

play
**MADISON
PARKS**



INDEX OF SHEETS

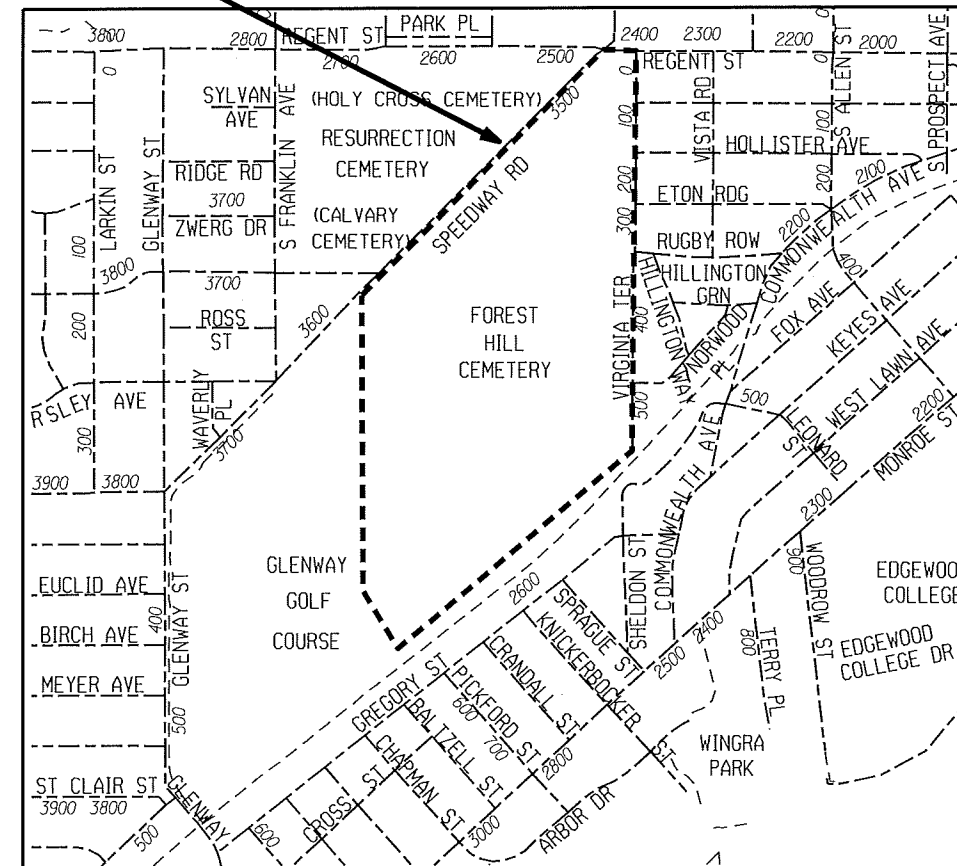
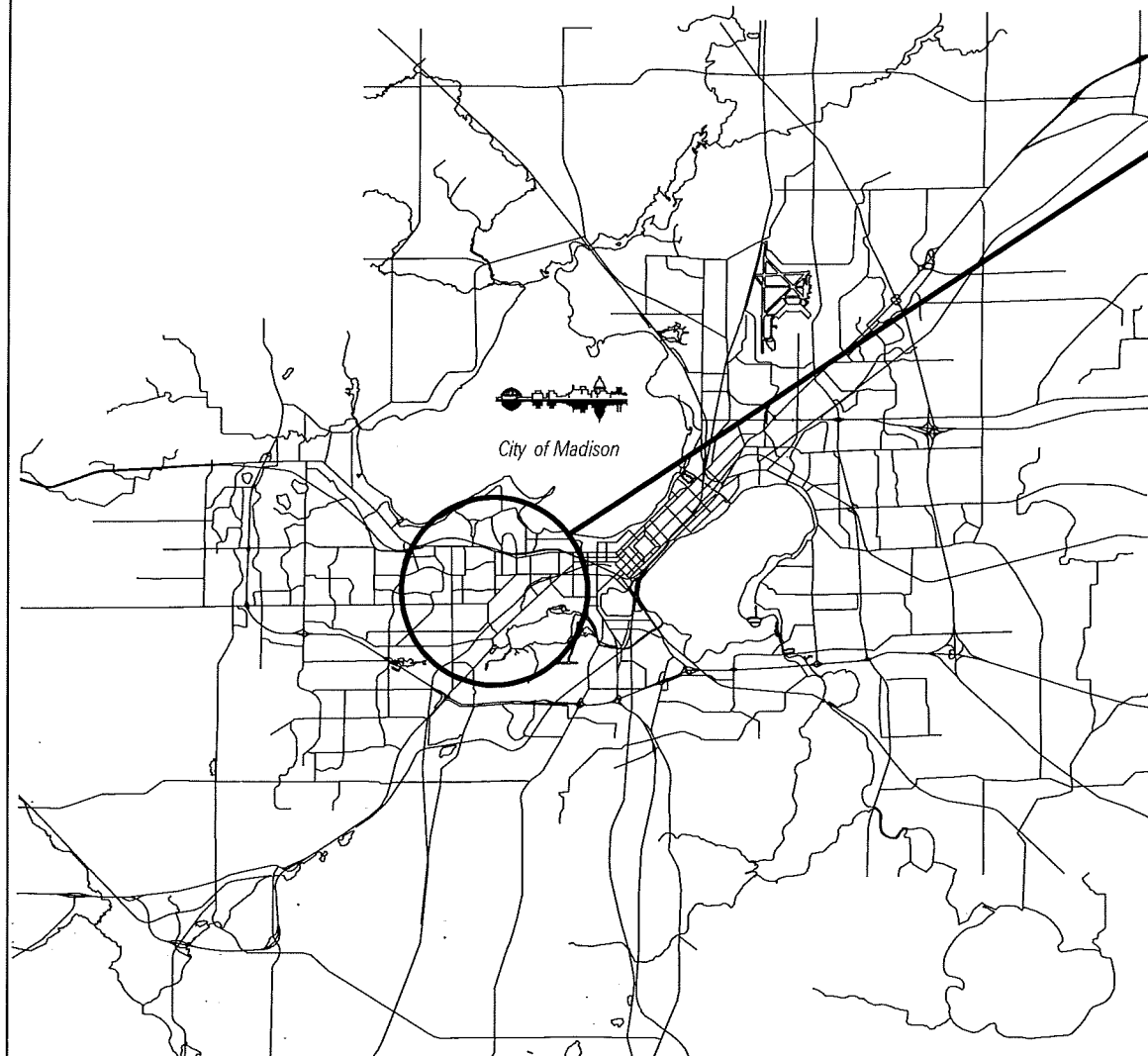
SHEET NO.	TITLE
1	TITLE
D1-D2	TYPICAL SECTIONS
D3	SHEET INDEX AND OVERVIEW
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U1-U5	UTILITIES PLAN AND PROFILES
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PROJECT:

FOREST HILL CEMETERY
IMPROVEMENTS 2019

FOREST HILL CEMETERY
1 SPEEDWAY BLVD
MADISON, WI 53711

PROJECT LOCATION



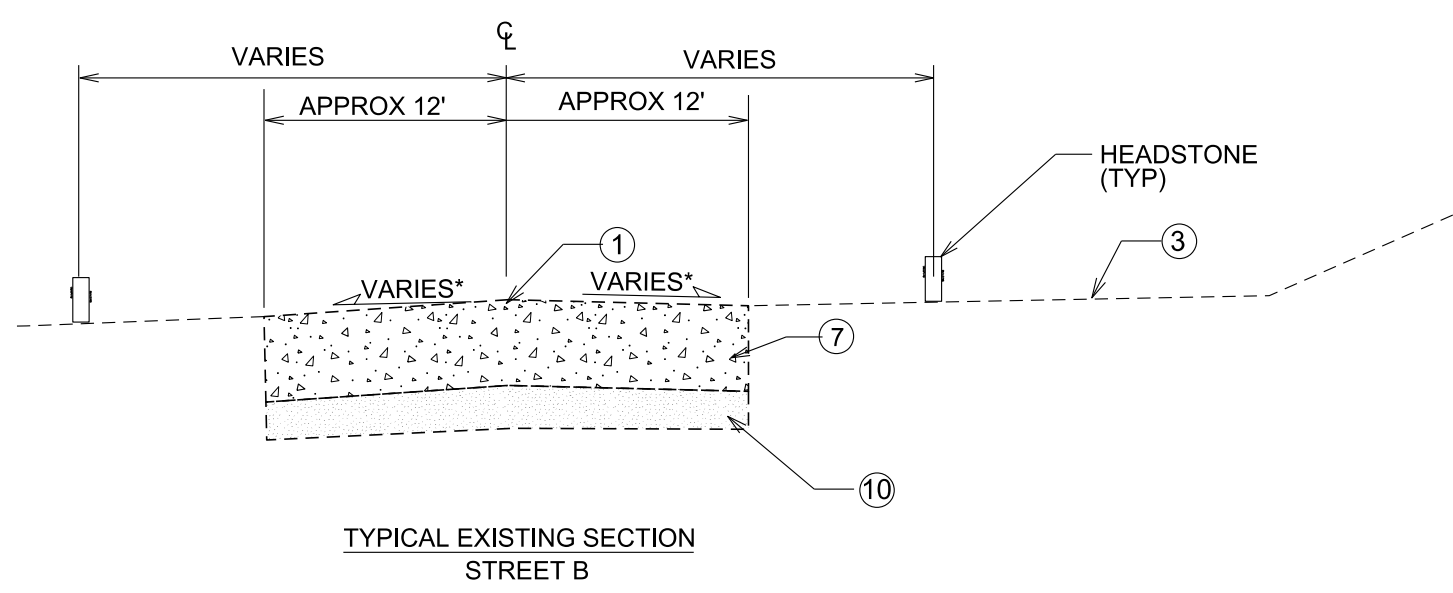
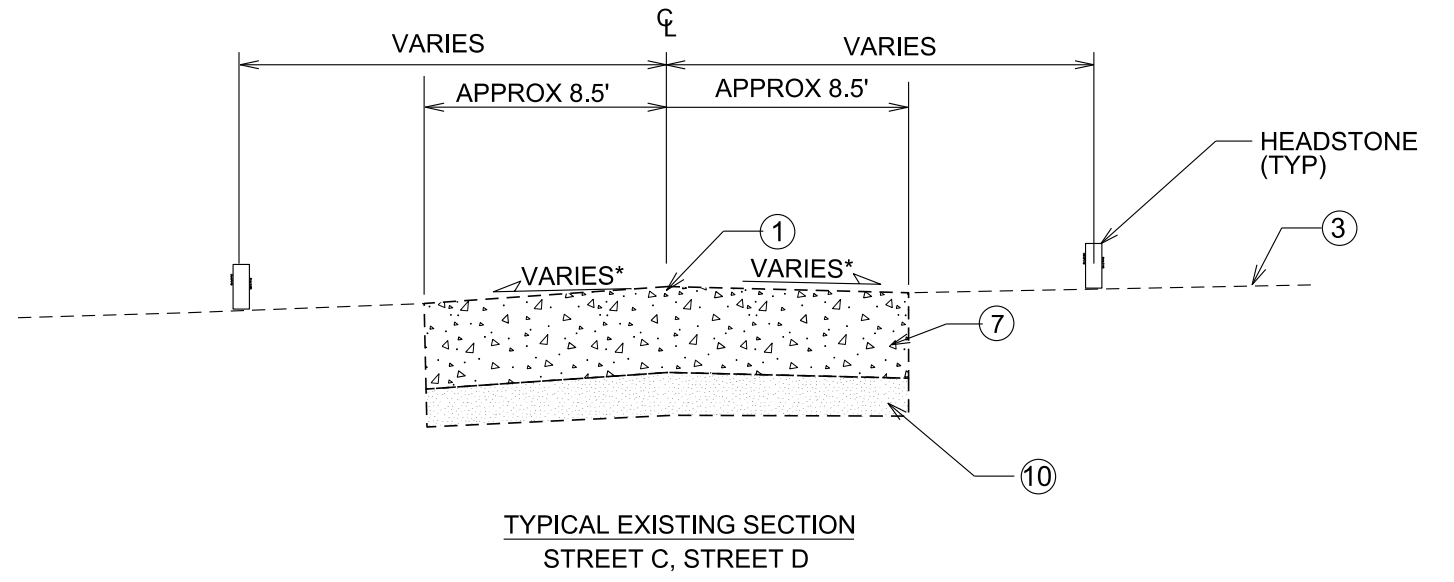
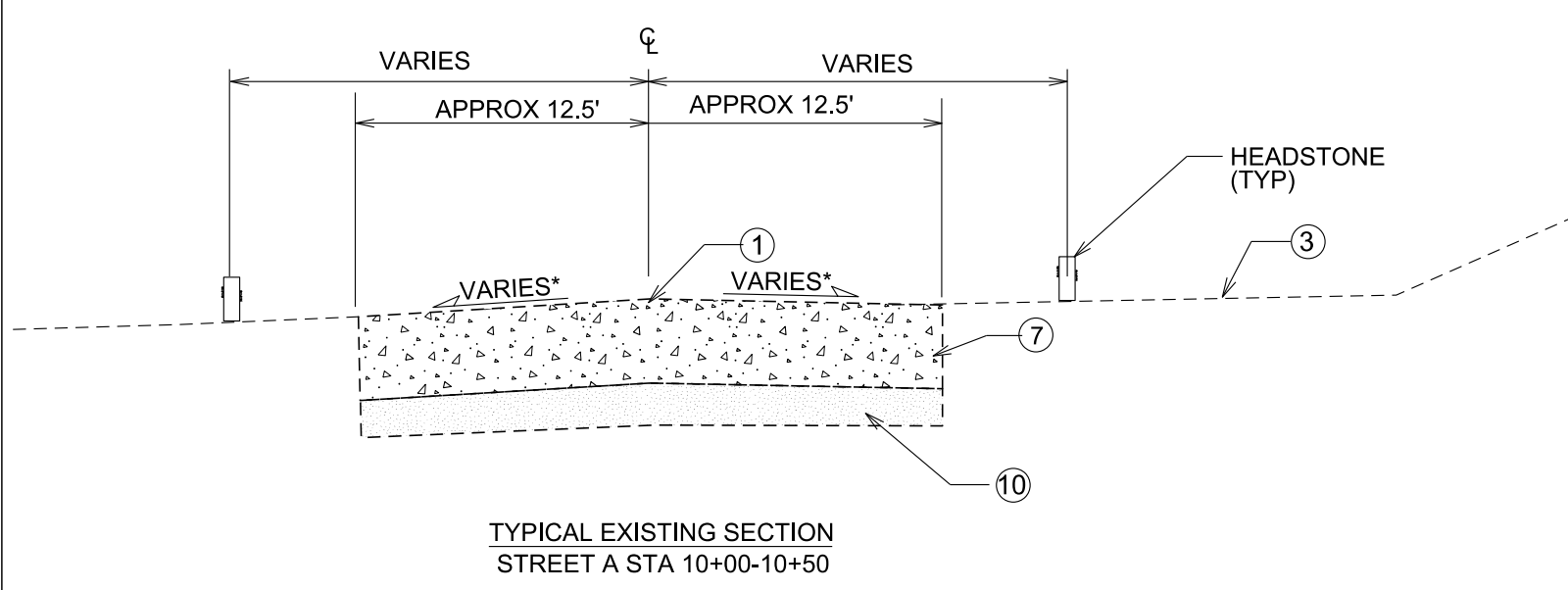
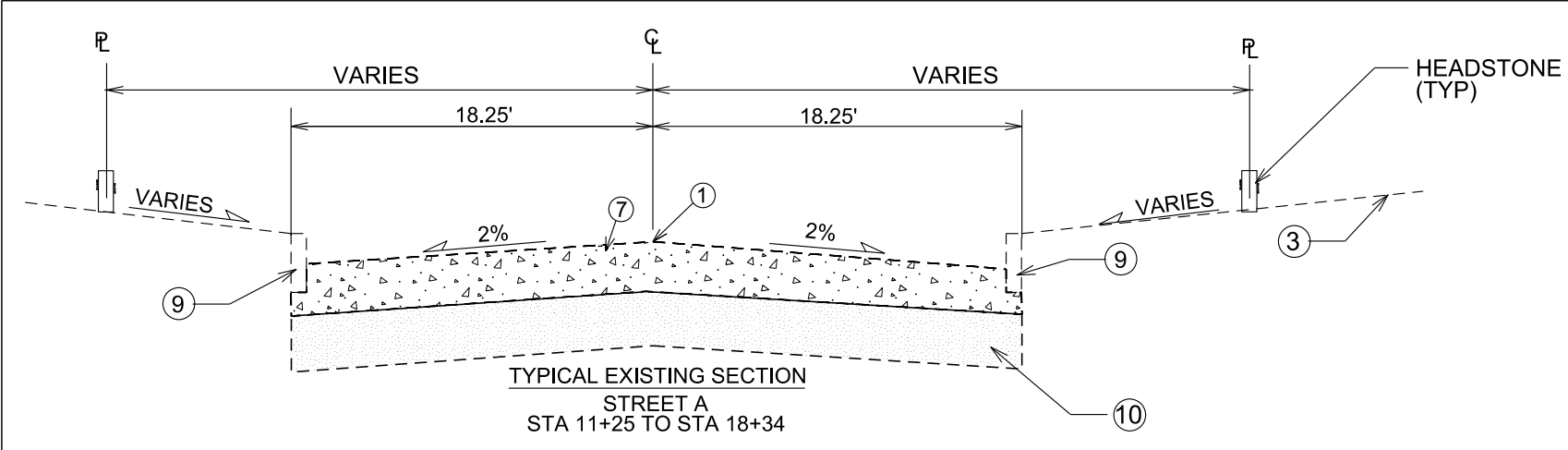
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: CCS	2-7-19

Revised by:

SHEET TITLE:
TITLE

SHEET NUMBER:
1



- ① POINT REFERRED TO ON PROFILE
- ③ EXISTING GROUND
- ⑦ EX ASPHALT PAVEMENT TO BE PULVERIZED (APPROX 7"-9")
- ⑨ CONCRETE BLOCK STYLE CURB
- ⑩ EXISTING BASE COURSE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

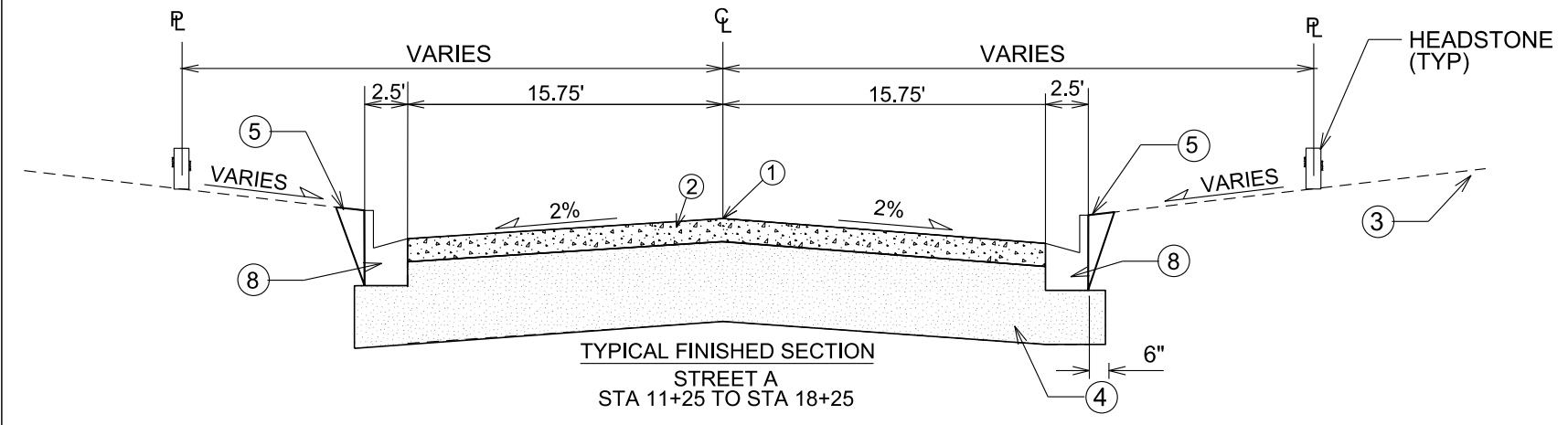
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

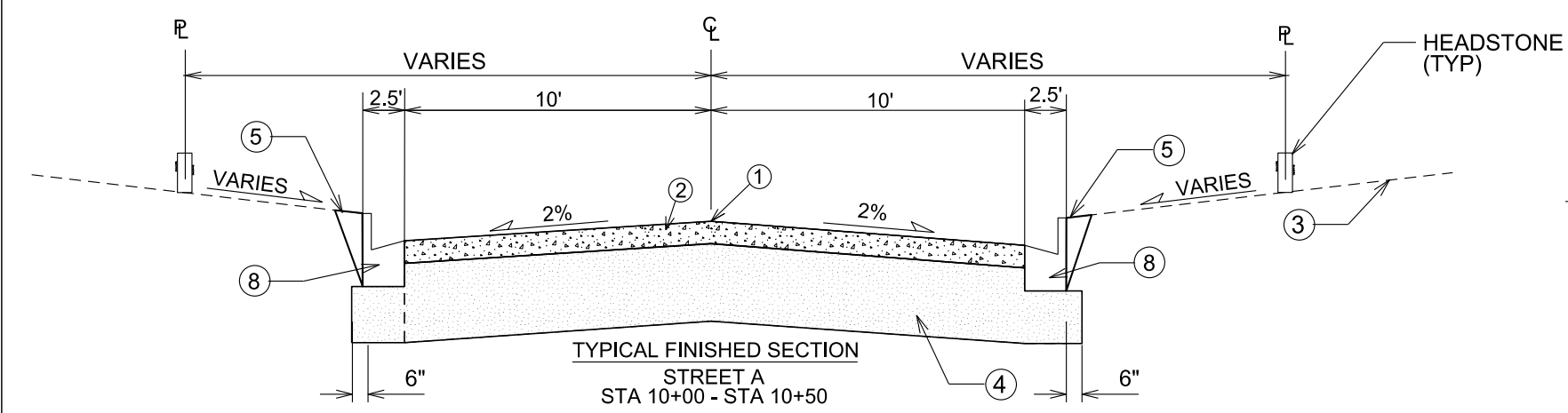
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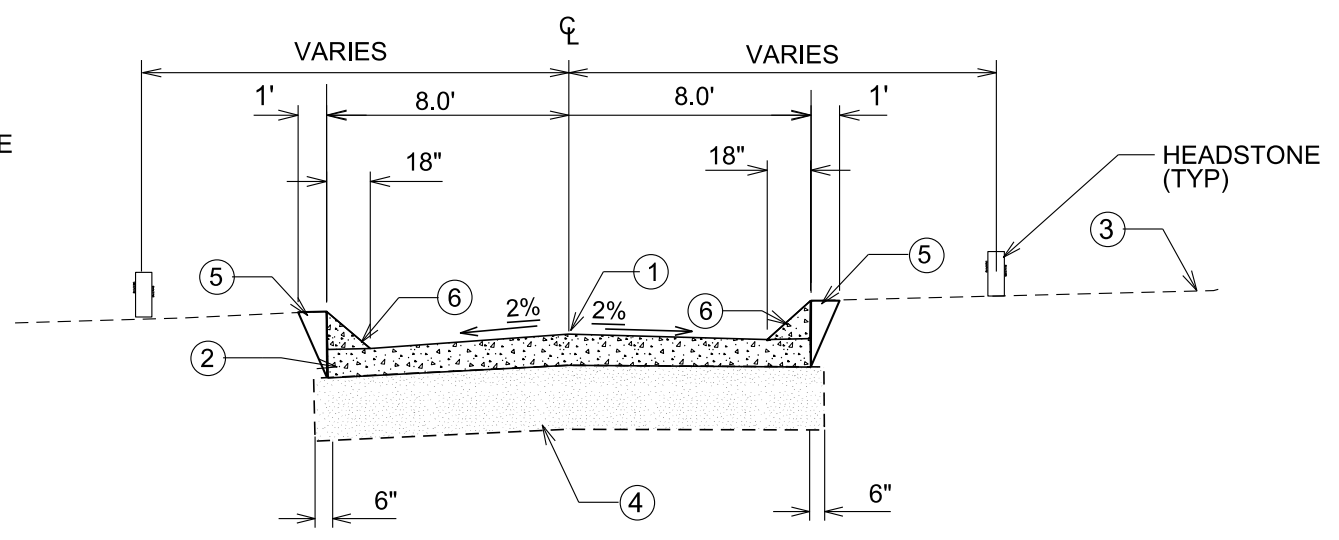
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



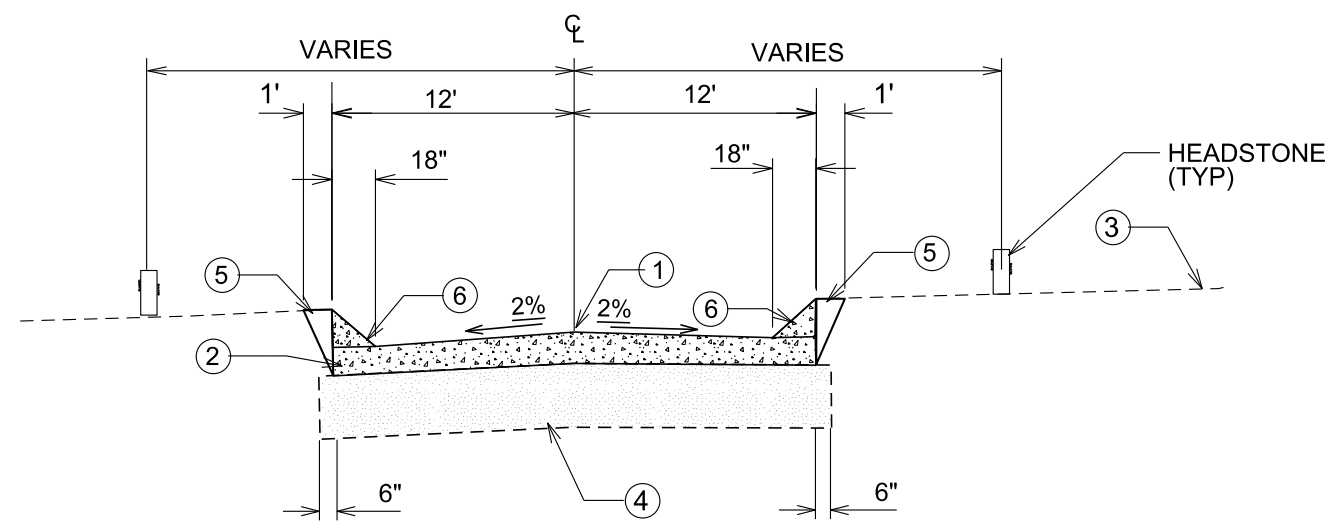
TYPICAL FINISHED SECTION
STREET A
STA 11+25 TO STA 18+25



TYPICAL FINISHED SECTION
STREET A
STA 10+00 - STA 10+50



TYPICAL FINISHED SECTION
STREET C, STREET D



TYPICAL FINISHED SECTION
STREET B

- NOTE:
CARLSON SCREED RAISED EDGE OF PAVEMENT SHALL BE 4" HIGH AND 18" WIDE AND SHALL BE INCIDENTAL TO ASPHALT PAVEMENT.
- ① POINT REFERRED TO ON PROFILE
 - ② 3.5" HMA 4 LT 58-28 S ASPHALT PER S.D.D 4.01
 - ③ EXISTING GROUND
 - ④ 9" PULVERIZED AND SHAPED ASPHALT AND BASE
 - ⑤ GRAVEL SHOULDERING
 - ⑥ 18" CARLSON SCREED ASPHALT CURB
 - ⑧ CONCRETE CURB AND GUTTER TYPE A

ST — PROPOSED STORM SEWER

--- EXISTING STORM SEWER
(TO REMAIN)



SITE ACCESS
POINT

CEMETERY
OFFICE

MAUSOLEUM AND
STAGING LOT

SPEEDWAY RD

STREET B

STREET C

STREET E

STREET H

VIRGINIA TERRACE

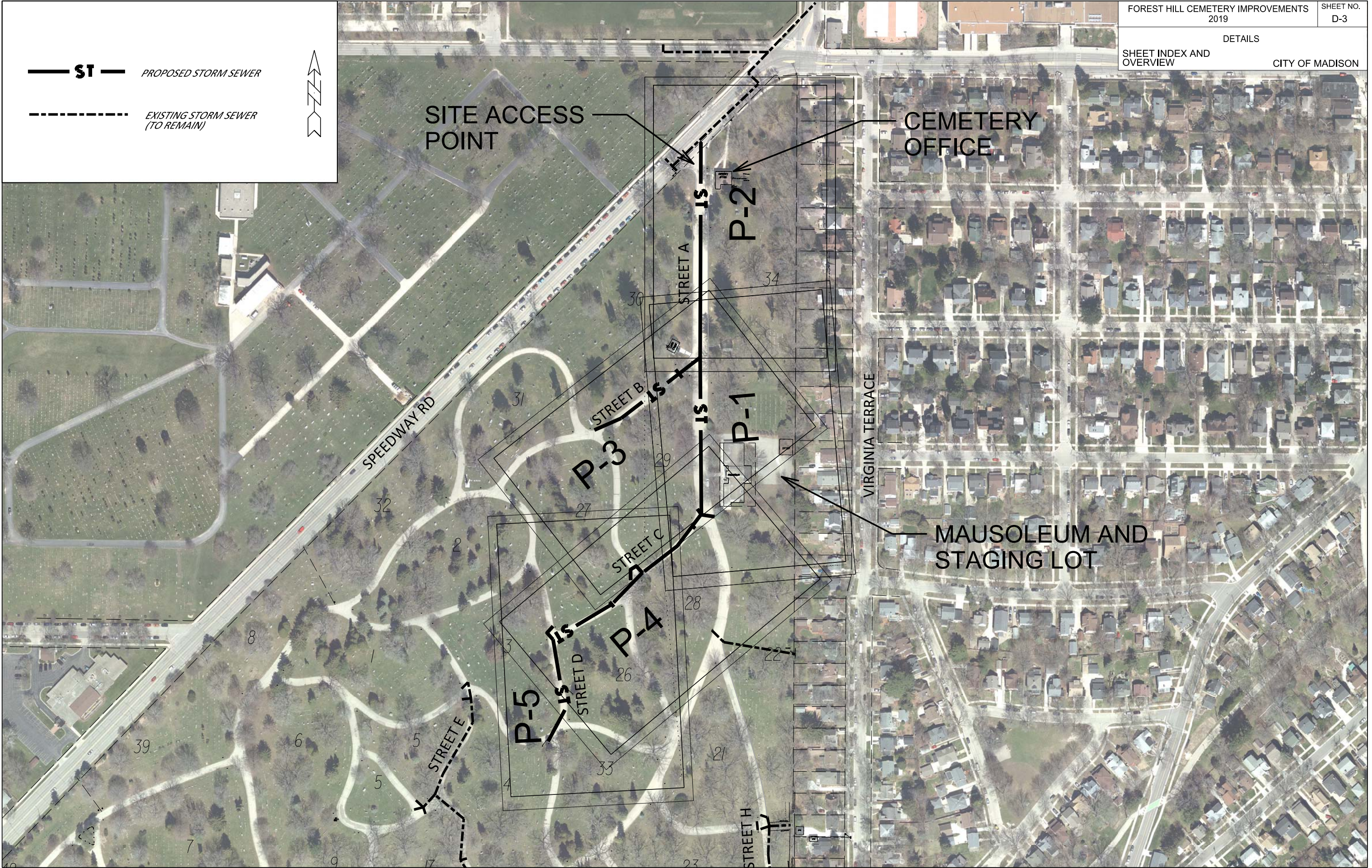
P-5

P-4

P-3

P-1

P-2



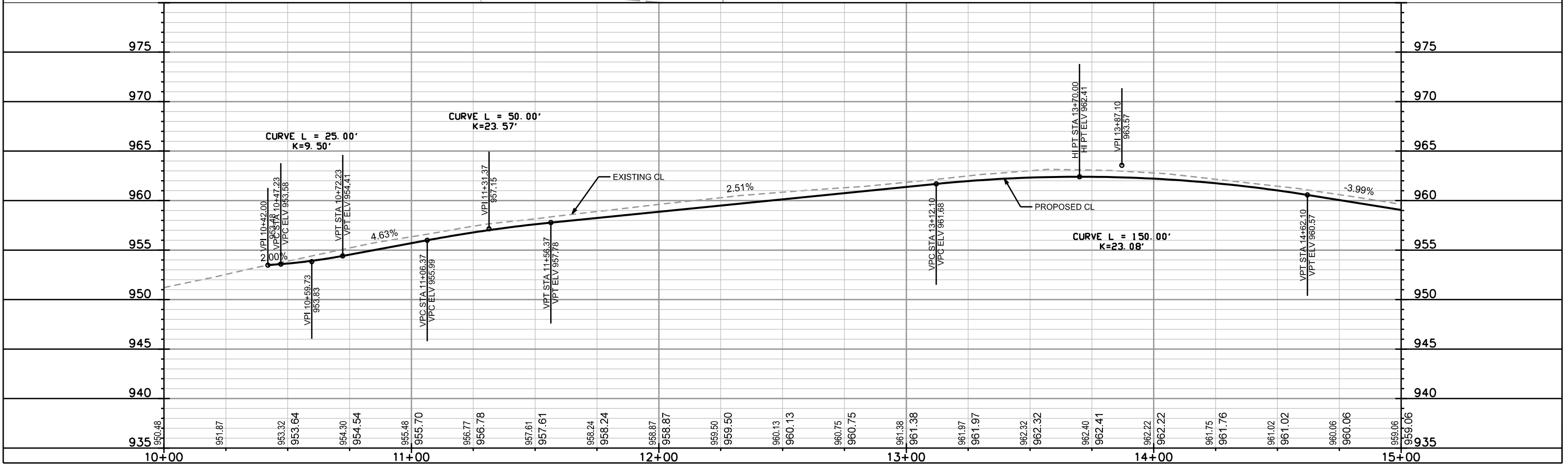
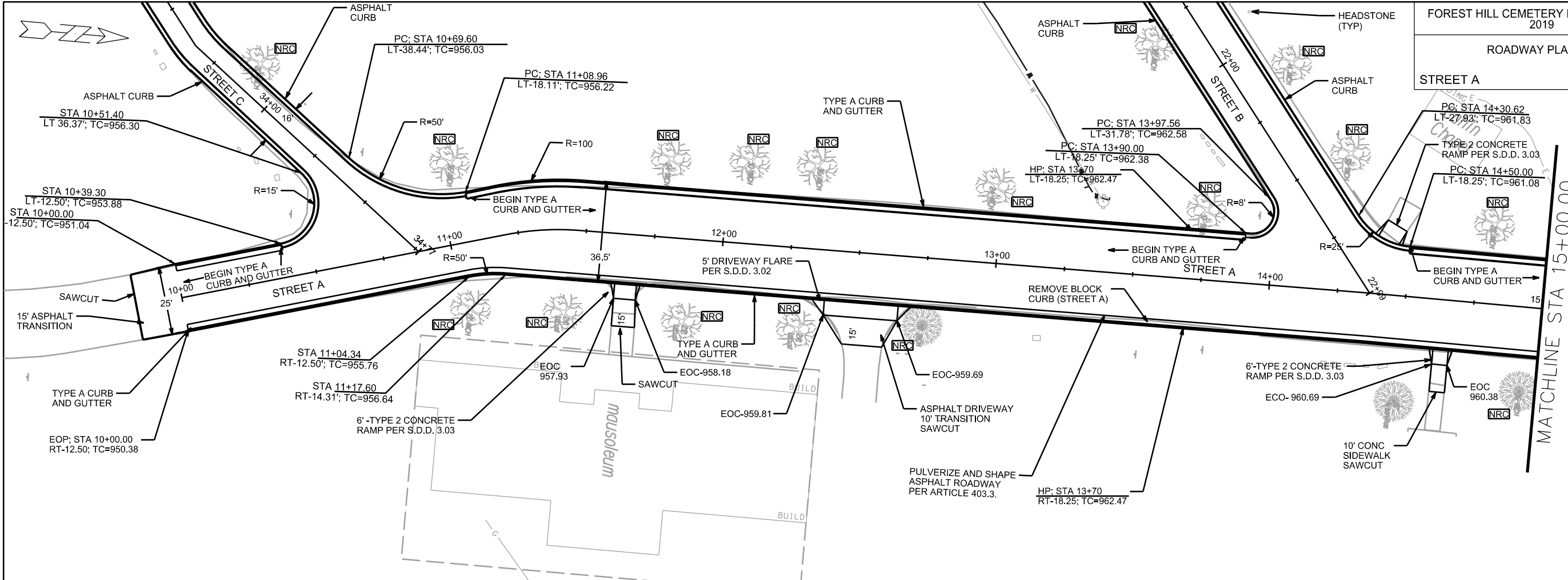
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ROADWAY PLAN AND PROFILE
STREET A CITY OF MADISON

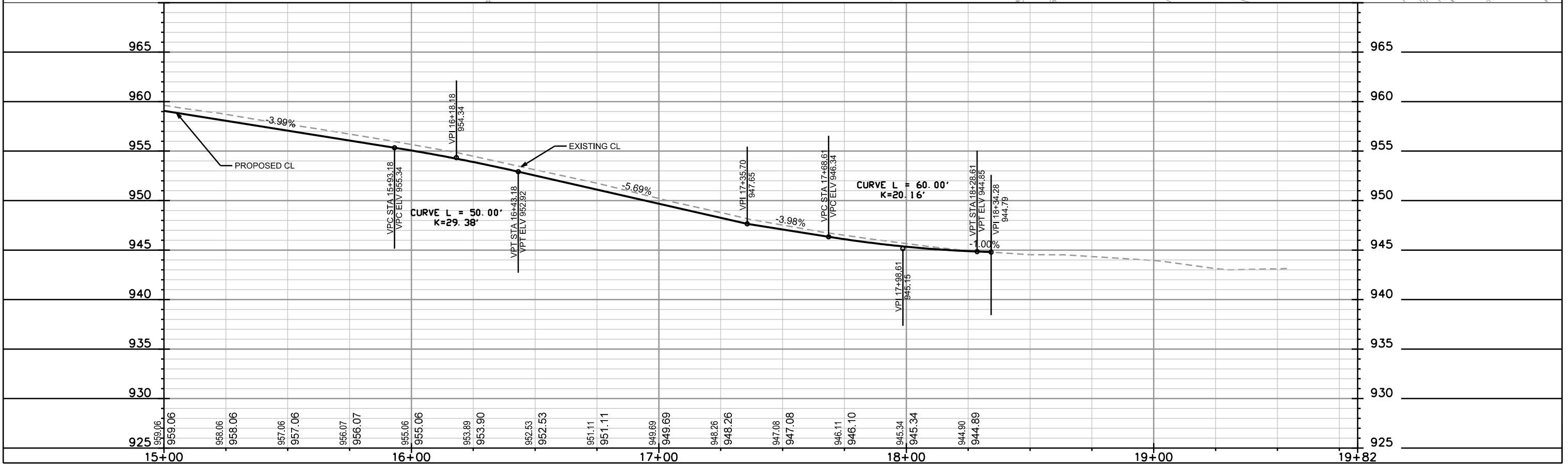
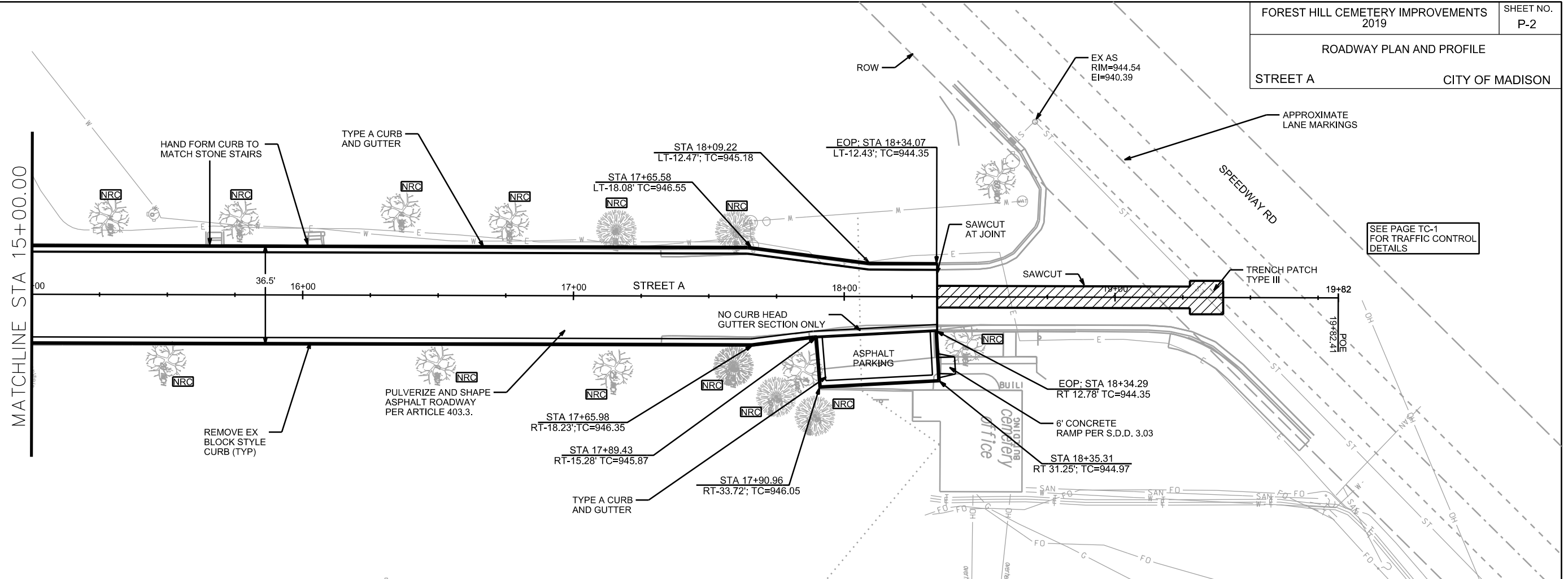
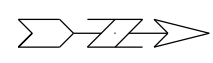


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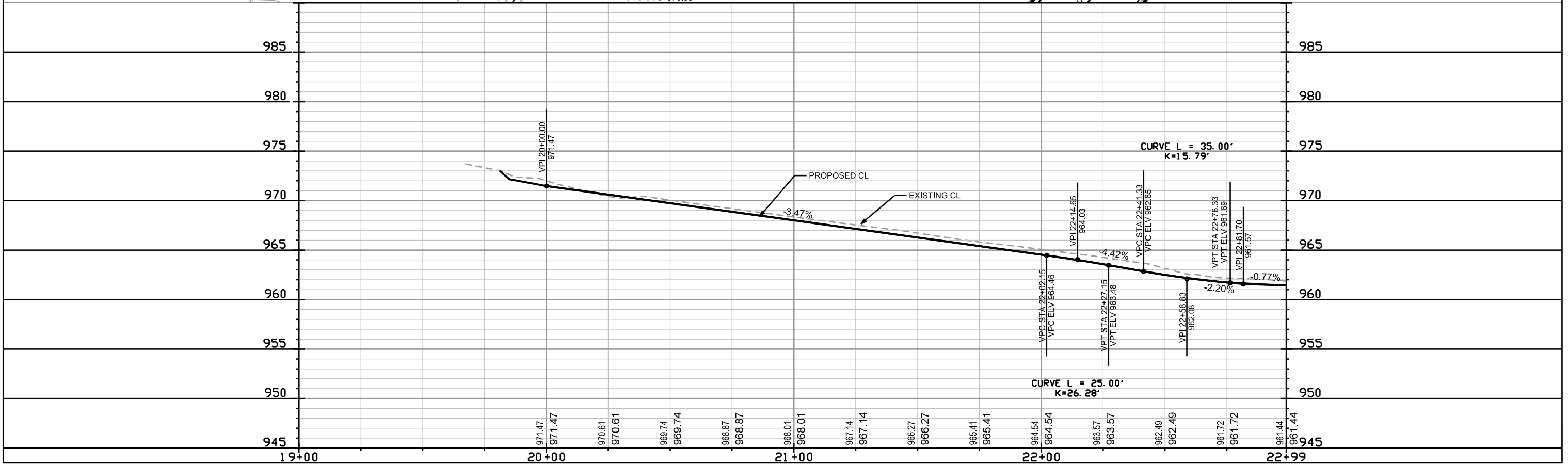
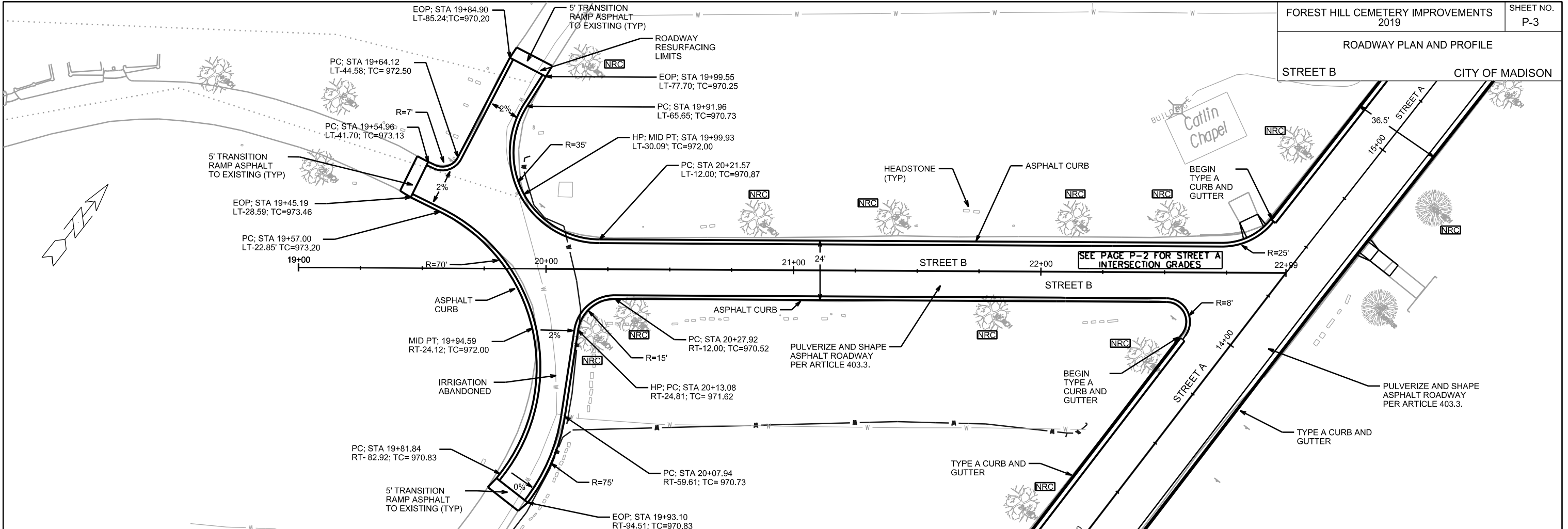


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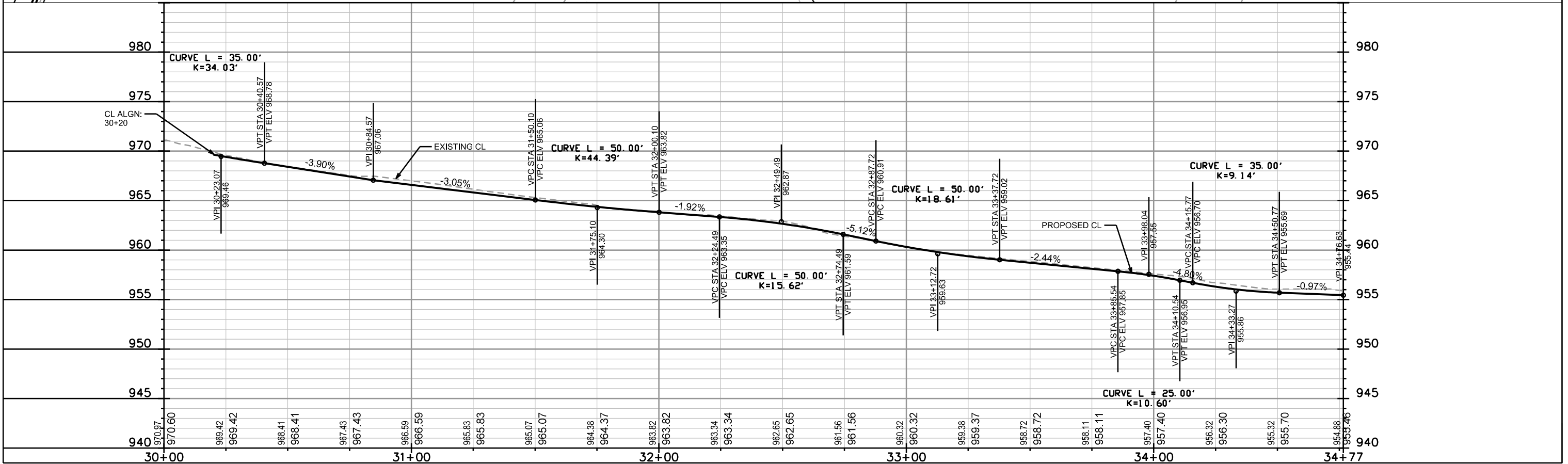
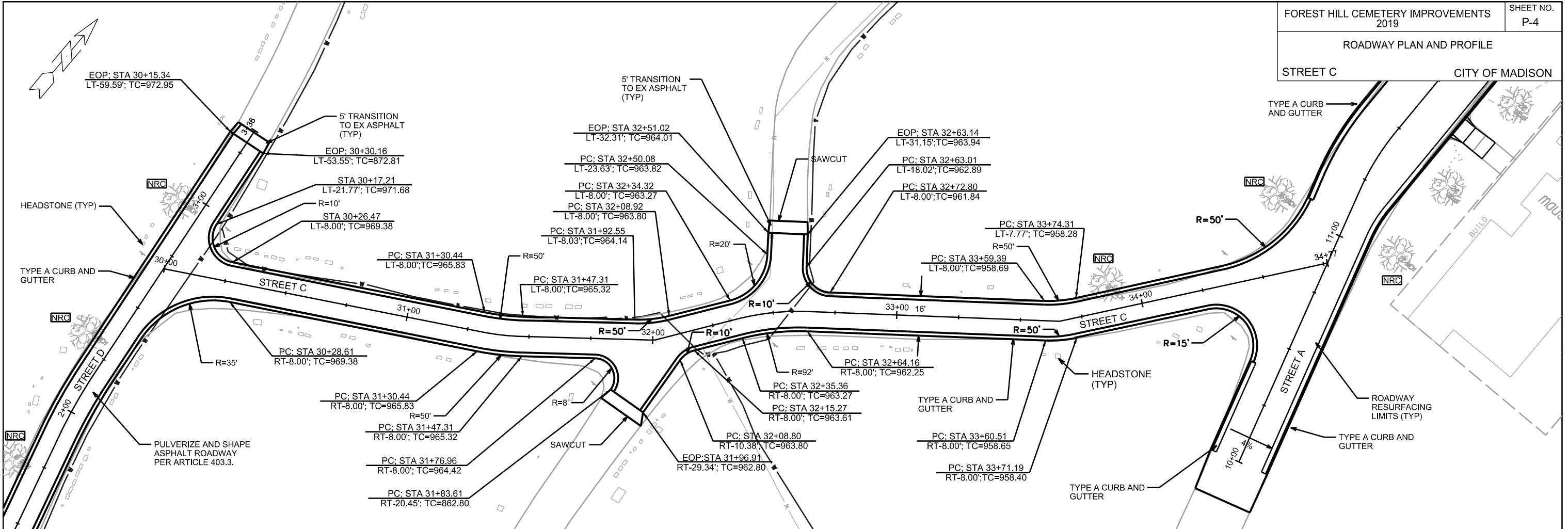


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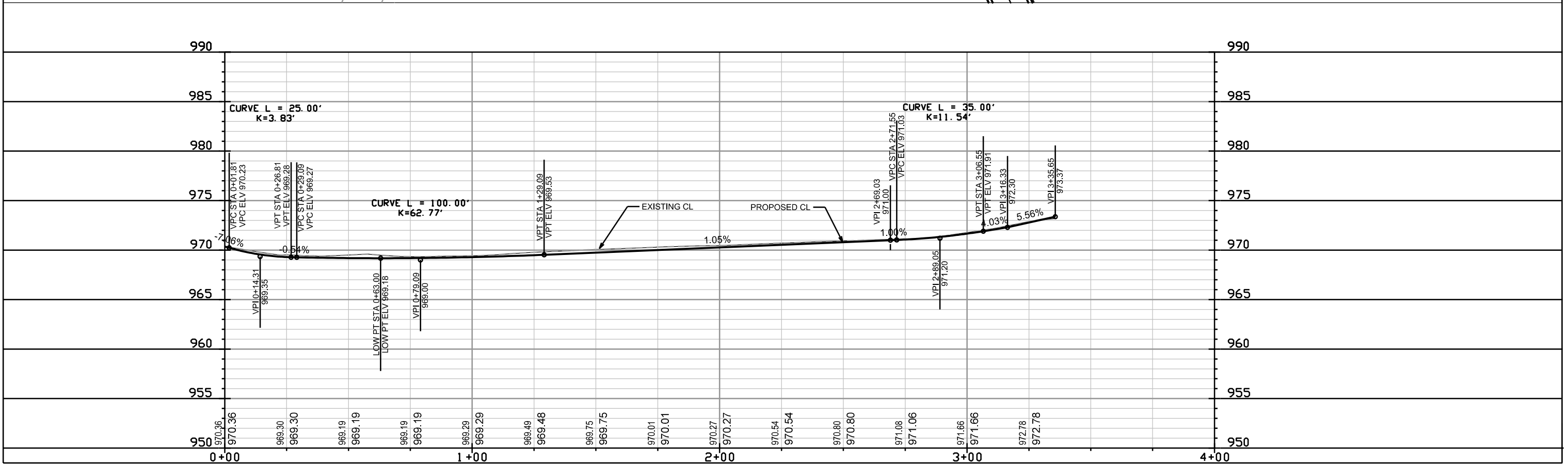
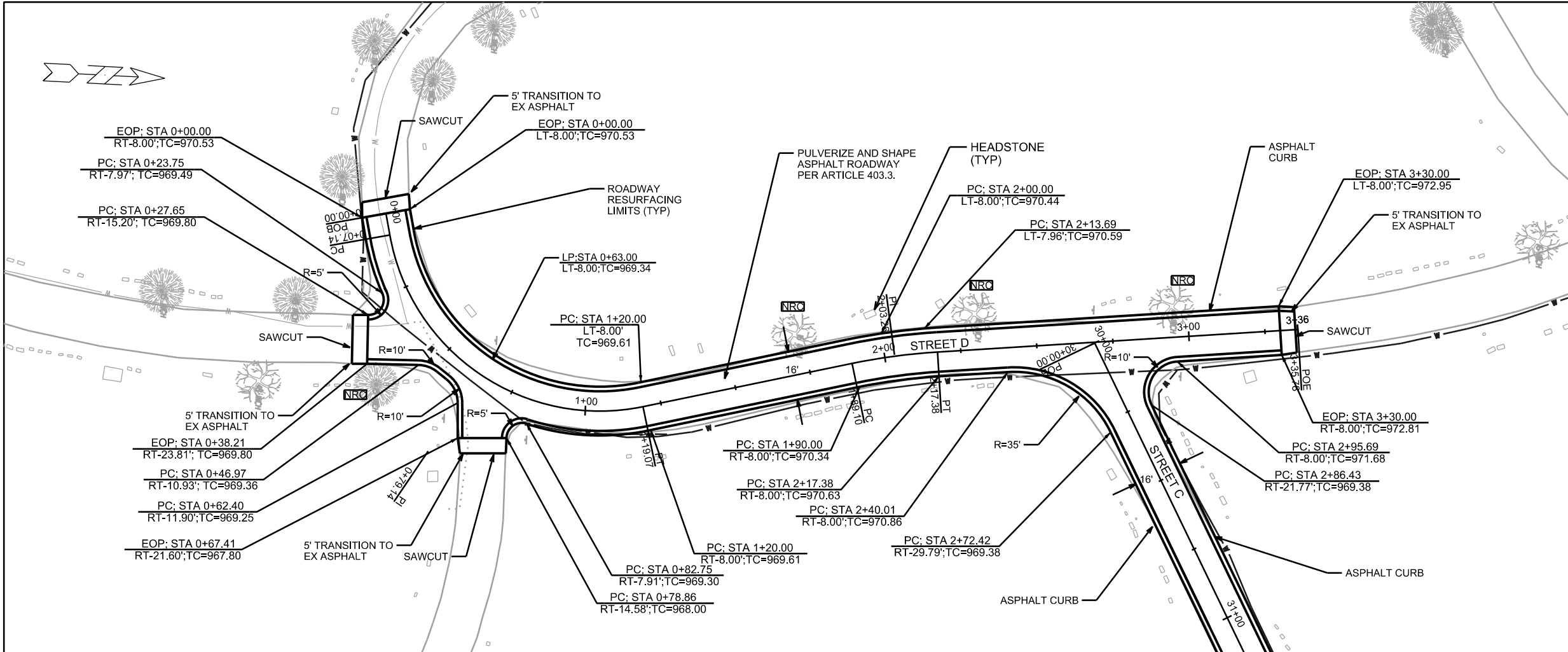


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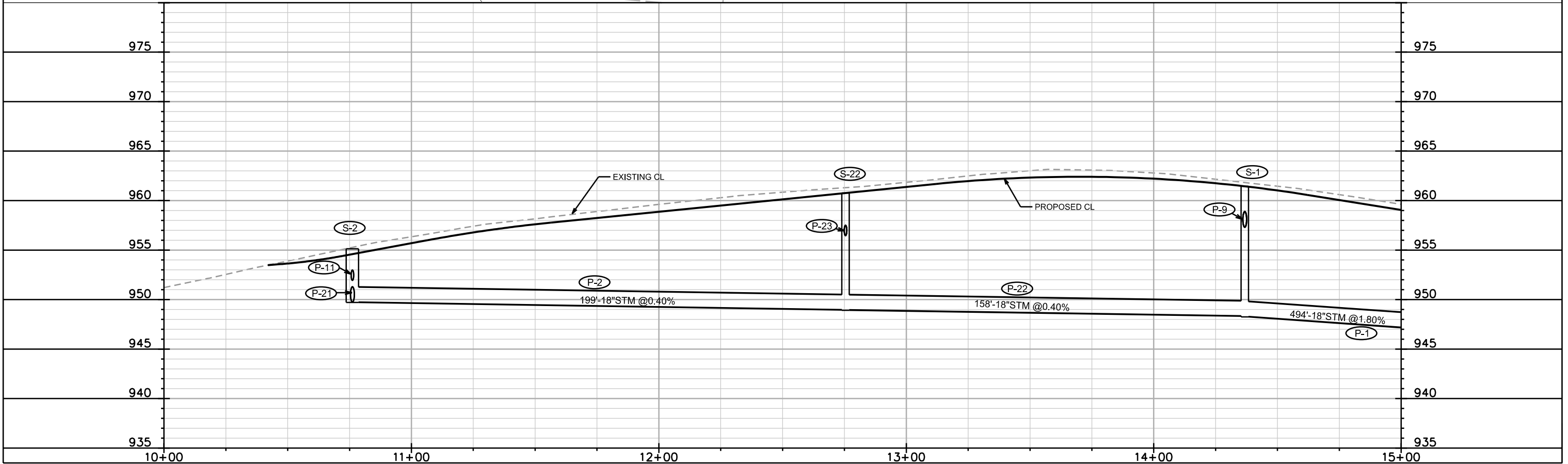
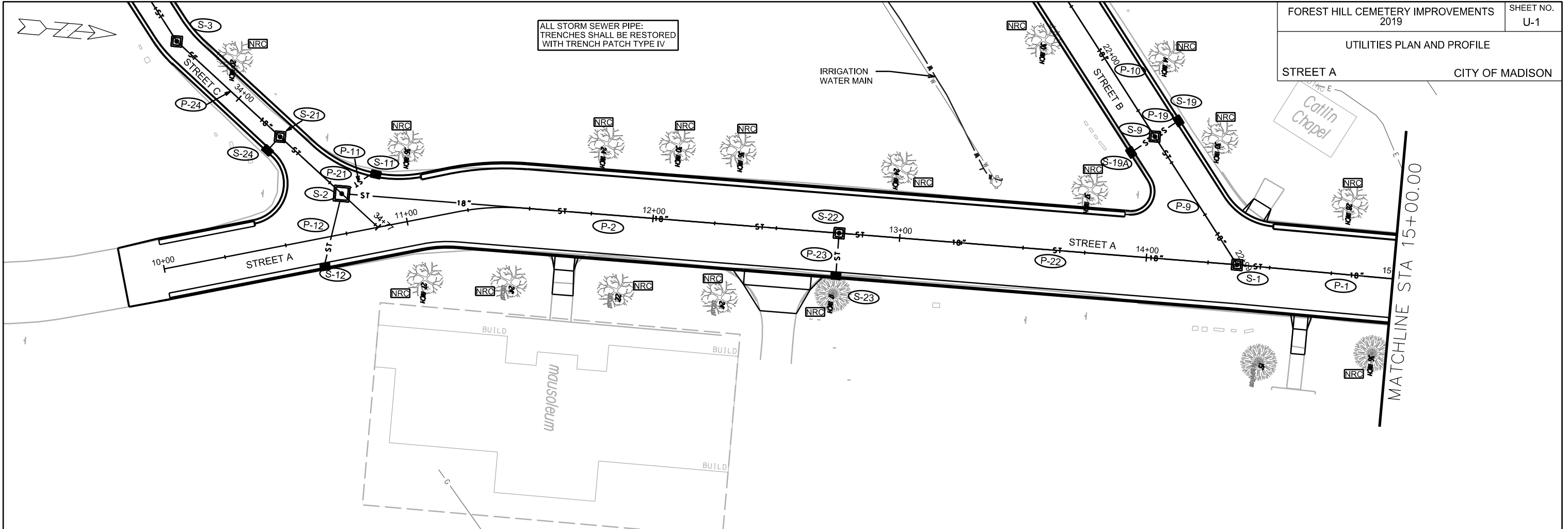
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ALL STORM SEWER PIPE
TRENCHES SHALL BE RESTORED
WITH TRENCH PATCH TYPE IV

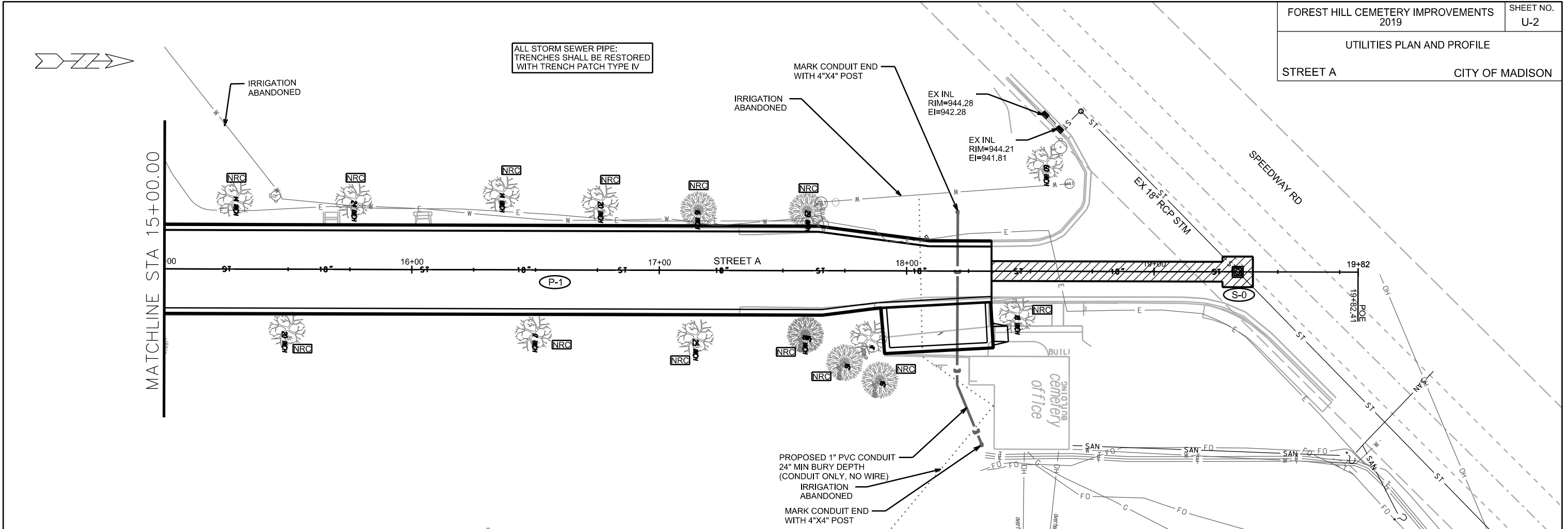


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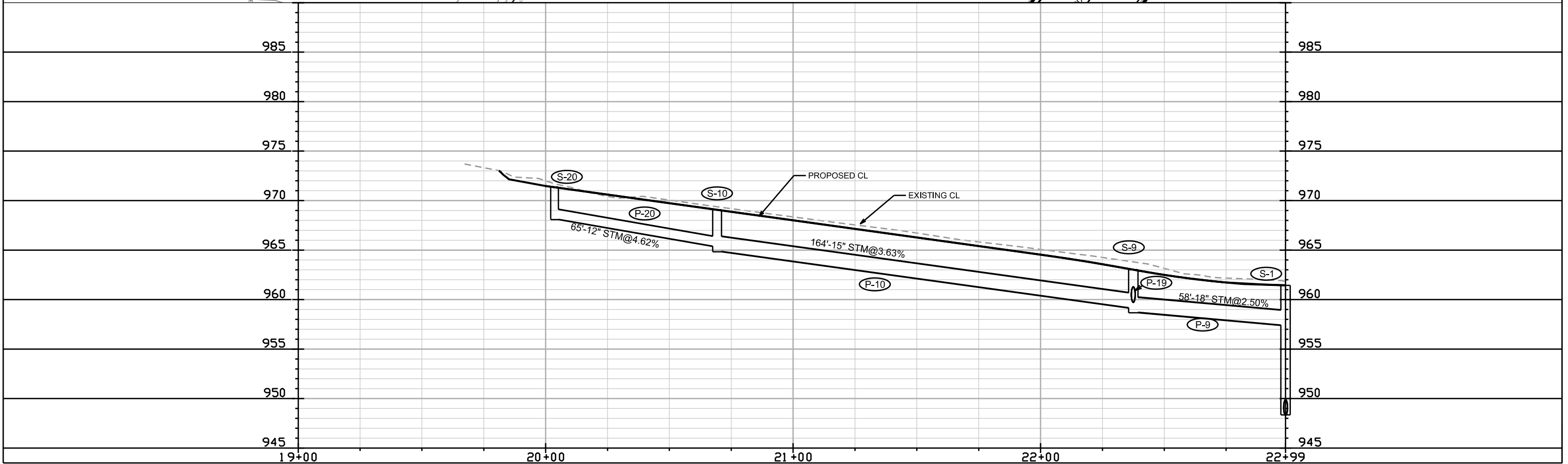
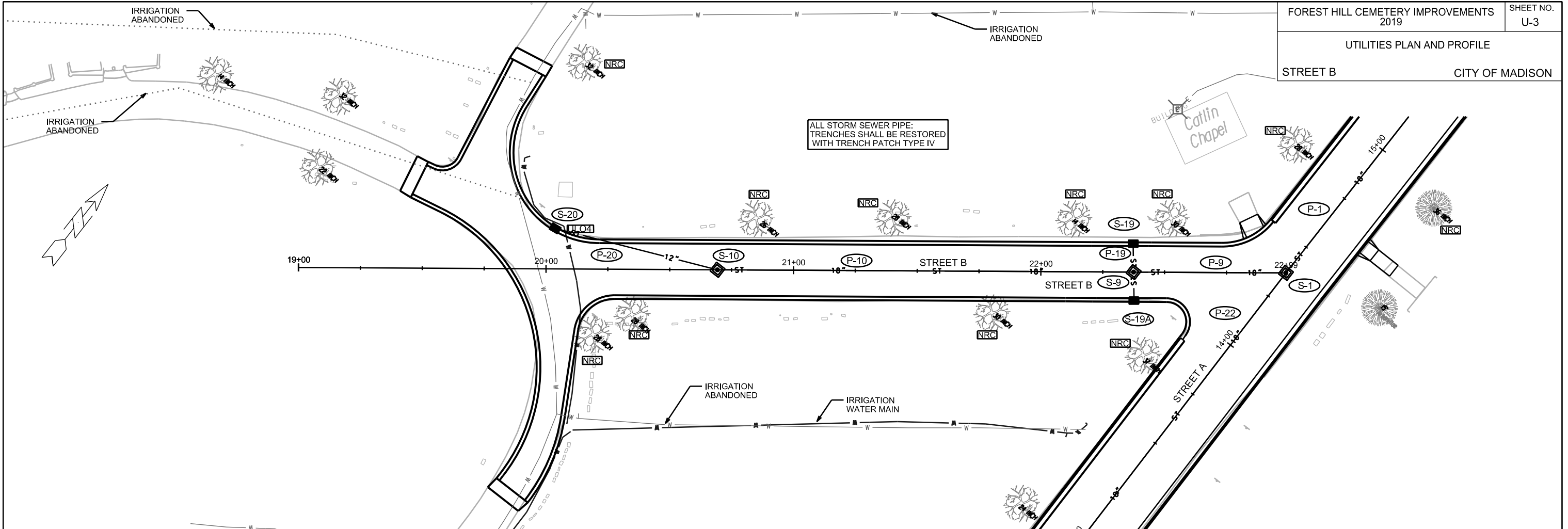


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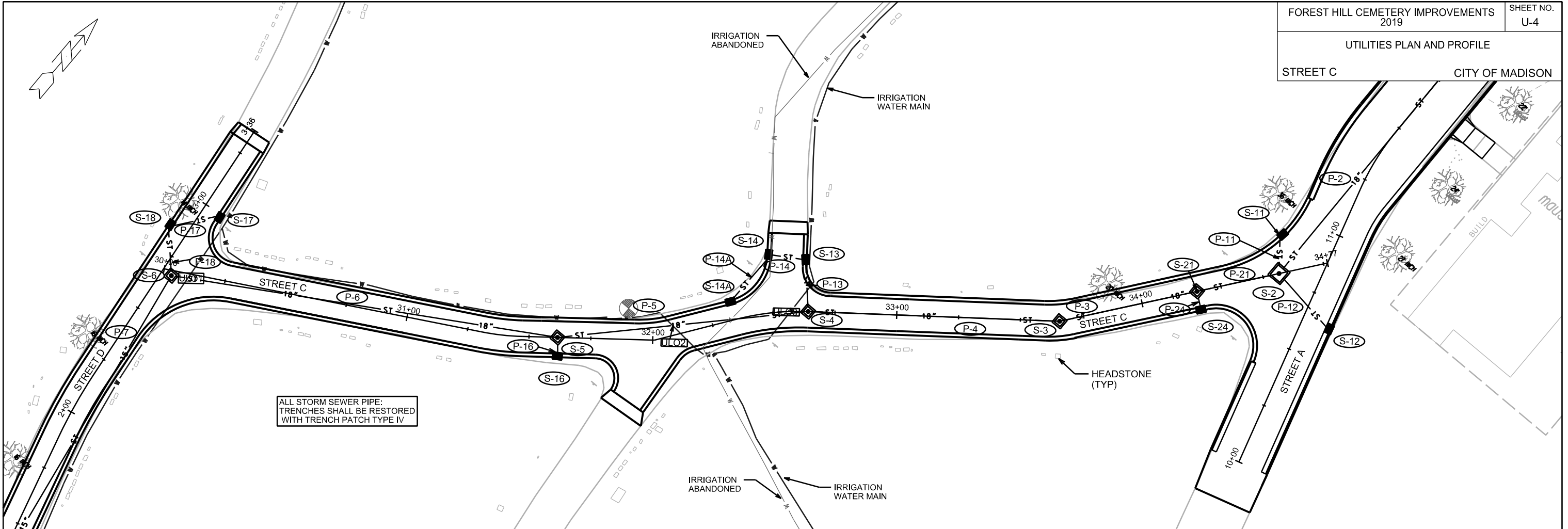


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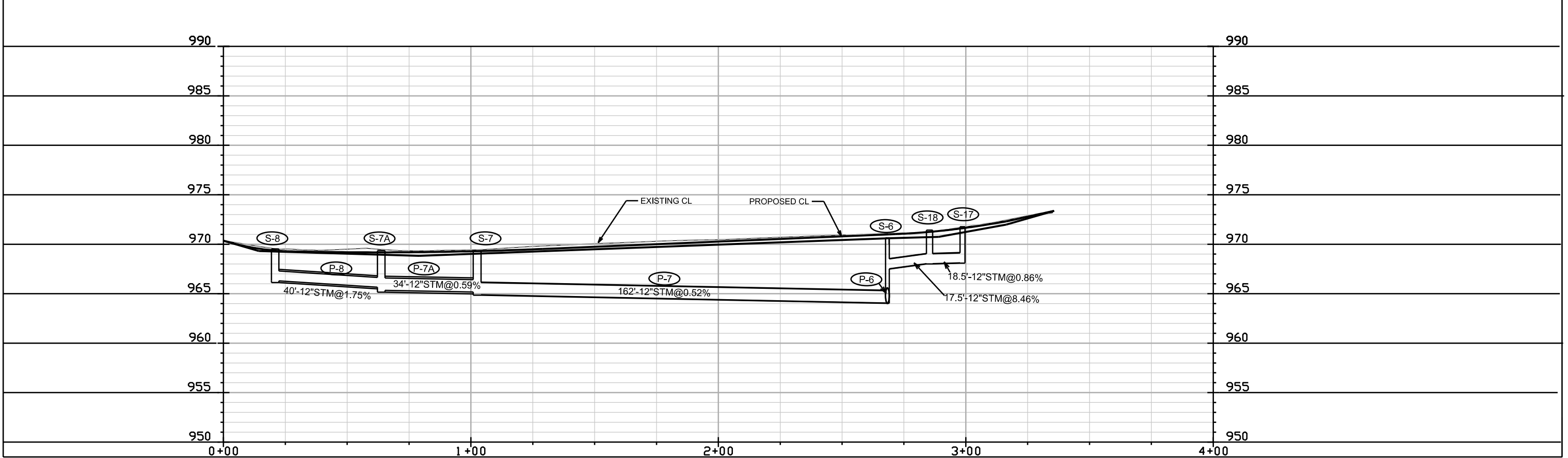
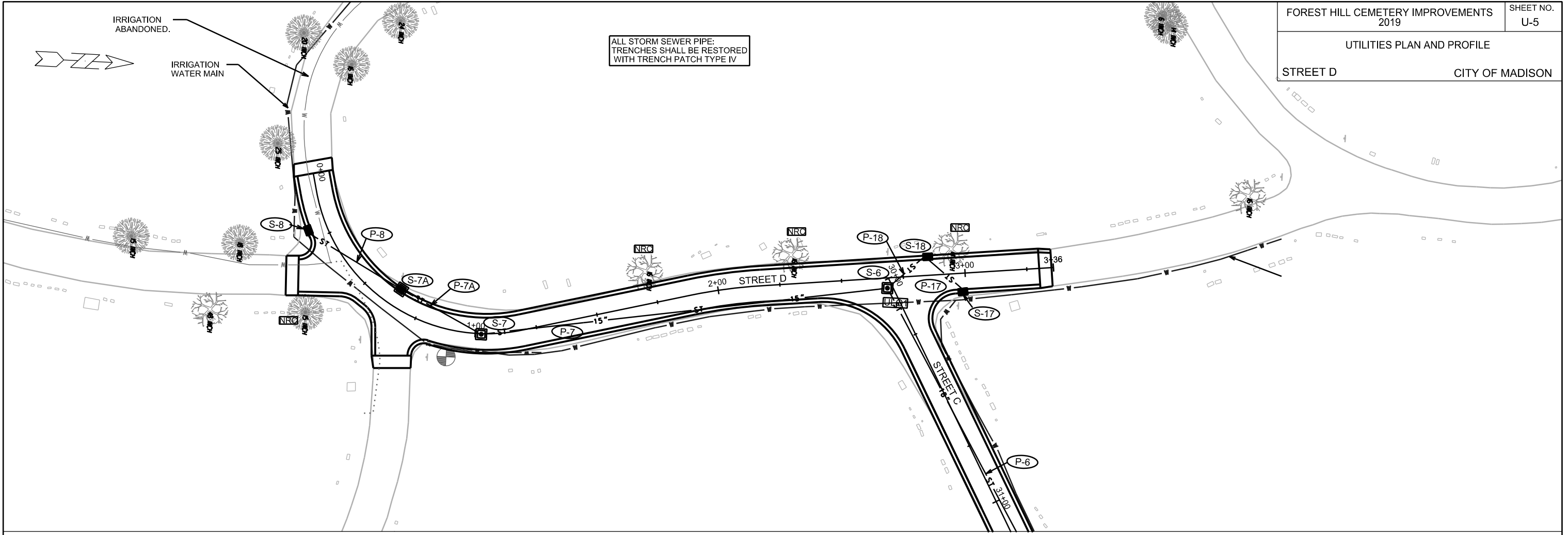
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ALL STORM SEWER PIPE
TRENCHES SHALL BE RESTORED
WITH TRENCH PATCH TYPE IV



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

FOREST HILL STORM SEWER IMPROVEMENTS	SHEET NO.
2019	U-6
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
STREET A							
S-0	19+33.79	RT-0.06	3X3 SAS	943.02	939.48	3.54	W/R-1550-0054
S-1	14+36.78	RT-0	3X3 SAS	961.44	948.35	13.09	W/R-1550-0054
S-2	10+76.16	LT-16.15	5X5 SAS	955.13	949.77	5.36	FP; W/R-1550-0054-OPEN
S-22	12+75.45	RT-0	3X3 SAS	960.76	948.98	11.78	W/R-1550-0054
S-23	12+75.49	RT-17.24	H INLET	960.80	957.00	3.80	W/3067-7004-V
S-24	10+50.05	LT-39.06	H INLET	956.50	953.20	3.30	(2);W/3067-7004-V
STREET B							
S-9	22+37.47	RT-0	3X3 SAS	963.02	958.80	4.22	W/R-1550-0054-OPEN
S-10	20+69.28	RT-0	3X3 SAS	969.07	965.00	4.07	(1); W/R-1550-0054-OPEN
S-19	22+37.26	LT-11.50	H INLET	963.15	959.95	3.20	(2);W/3067-7004-V
S-19A	22+37.69	RT-11.50	H INLET	963.15	959.95	3.20	(2);W/3067-7004-V
S-20	20+03.59	LT-16.38	H INLET	971.37	968.25	3.12	(2);W/3067-7004-V
STREET C							
S-3	33+65.85	RT-0	3X3 SAS	958.33	954.00	4.33	W/R-1550-0054-OPEN
S-4	32+64.16	RT-0	3X3 SAS	962.08	958.00	4.08	W/R-1550-0054-OPEN
S-5	31+61.52	RT-0	3X3 SAS	964.73	960.50	4.23	W/R-1550-0054-OPEN
S-6	30+03.31	RT-2.13	3X3 SAS	970.65	964.05	6.60	W/R-1550-0054-OPEN
S-11	34+61.42	LT-15.08	H INLET	956.11	953.00	3.11	(2);W/3067-7004-V
S-12	34+71.68	RT-26.18	H INLET	953.66	950.91	2.75	FP;(1); W/3067-7004-V
S-13	32+62.63	LT-21.03	H INLET	963.14	959.64	3.50	(2);W/3067-7004-V
S-14	32+50.48	LT-23.56	H INLET	963.82	959.96	3.86	(2);W/3067-7004-V
S-14A	32+34.32	LT-7.50	H INLET	963.27	960.07	3.20	LP; W/3067-7004
S-16	61+61.69	RT-7.50	H INLET	964.89	961.25	3.64	(2);W/3067-7004-V
S-17	30+17.68	LT-24.74	H INLET	971.78	968.19	3.59	(2);W/3067-7004-V
S-21	34+22.70	RT-0	3X3 SAS	956.40	952.20	4.20	W/R-1550-0054-OPEN
STREET D							
S-7	1+02.51	RT-0.24	3X3 SAS	969.30	964.90	4.40	W/R-1550-0054-OPEN
S-7A	0+63.75	RT-7.48	3X3 SAS	969.35	965.35	4.00	LP;(2); W/3067-7004-VB
S-8	0+20.90	RT-7.48	H INLET	969.52	966.30	3.22	(2);W/3067-7004-V
S-18	2+85.36	LT-7.50	H INLET	971.42	968.03	3.39	(2);W/3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-0	S-1	939.48	948.35	497.0	494.0	1.80%	18"	TYPE I RCP	
P-2	S-22	S-2	948.98	949.77	202.0	199.0	0.40%	18"	TYPE II	
P-3	S-21	S-3	952.20	954.00	57.0	54.0	3.33%	18"	TYPE II	
P-4	S-3	S-4	954.00	958.00	102	98.0	4.08%	18"	TYPE II	
P-5	S-4	S-5	958.00	960.50	102.0	98.0	2.55%	18"	TYPE II	
P-6	S-5	S-6	960.50	964.05	158.0	155.0	2.29%	18"	TYPE II	
P-7	S-6	S-7	964.05	964.90	165.0	162.0	0.52%	15"	TYPE II	NCM
P-7A	S-7	S-7A	965.15	965.35	37.0	34.0	0.59%	15"	TYPE II	
P-8	S-7A	S-8	965.60	966.30	43.0	40.0	1.75%	12"	TYPE II	
P-9	S-1	S-9	957.35	958.80	62.0	58.0	2.50%	18"	TYPE II	NCM
P-10	S-9	S-10	959.05	965.00	168.0	164.0	3.63%	15"	TYPE II	
P-11	S-2	S-11	952.52	953.00	15.0	12.0	4.00%	12"	TYPE II	NCM
P-12	S-2	S-12	950.77	950.91	29.0	26.0	0.54%	12"	TYPE II	
P-13	S-4	S-13	958.25	959.64	20.0	18.0	7.72%	15"	TYPE II	
P-14	S-13	S-14	959.89	959.96	15.0	13.0	0.54%	12"	TYPE II	
P-14A	S-14	S-14A	959.96	960.07	23.0	21.0	0.52%	12"	TYPE II	
P-16	S-5	S-16	961.00	961.25	6.5	4.5	5.56%	12"	TYPE II	
P-17	S-18	S-17	968.03	968.19	20.5	18.5	0.86%	12"	TYPE II	NCM
P-18	S-6	S-18	966.55	968.03	19.5	17.5	8.46%	12"	TYPE II	NCM
P-19	S-9	S-19	959.75	959.95	10.5	8.5	2.35%	12"	TYPE II	NCM
P-19A	S-9	S-19A	959.75	959.95	11.5	8.5	2.35%	12"	TYPE II	NCM
P-20	S-10	S-20	965.25	968.25	68.0	65.0	4.62%	12"	TYPE II	
P-21	S-2	S-21	949.77	952.20	34.0	29.0	8.38%	18"	TYPE II	NCM
P-22	S-1	S-22	948.35	948.98	161.0	158.0	0.40%	18"	TYPE II	NCM
P-23	S-22	S-23	956.48	957.00	16.0	14.5	3.59%	12"	TYPE II	NCM
P-24	S-21	S-24	953.00	953.20	6.5	4.5	4.44%	12"	TYPE II	NCM

ULO'S

ULO	STATION	LOCATION	TYPE	TOP ELEV
ULO-1	30+10.00	RT-1.75	IRRIGATION	
ULO-2	32+10.00	LT-3.50	IRRIGATION	
ULO-3	32+56.00	RT-1.00	IRRIGATION	
ULO-4	20+07.00	LT-15.40	IRRIGATION	

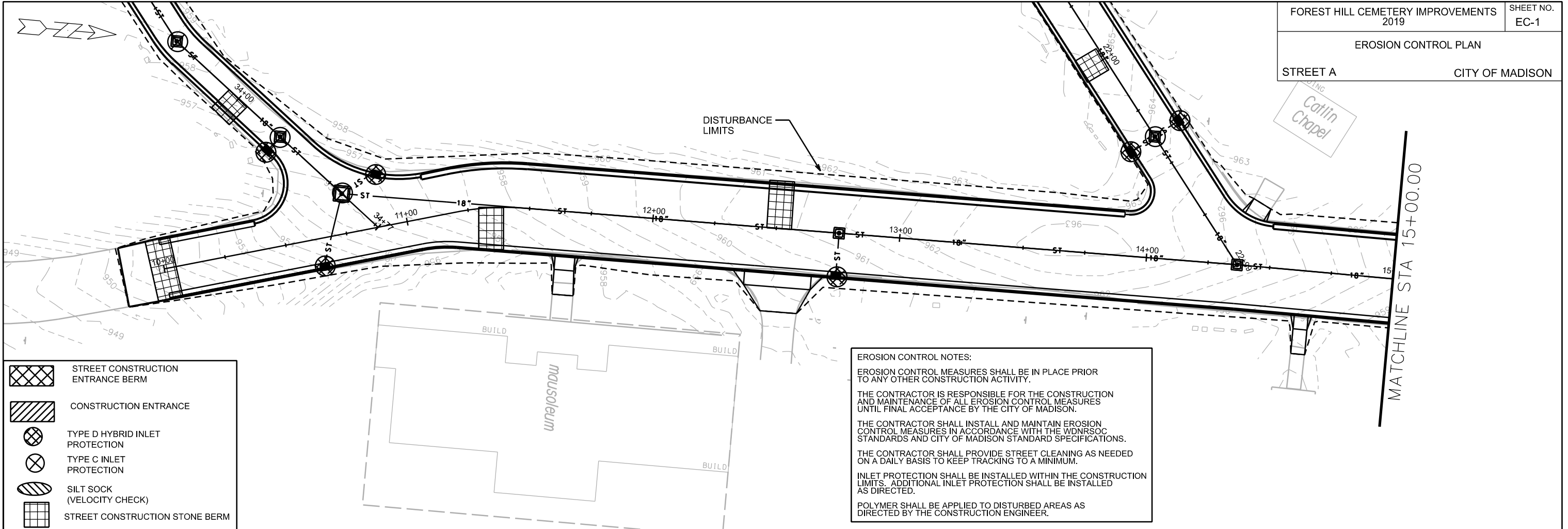
NOTE: PLAN LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH. PIPE QUANTITIES CALCULATED USING PLAN LENGTH IN PROPOSAL.







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 PARKS FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT COREY STELLJES OF CITY PARKS AT (608) 266-6518 FOR PRECAST APPROVALS, EMAIL SHOP DRAWINGS TO CSTELLJES@CITYOFMADISON.COM.

SPECIFIC NOTES

- (1) STRUCTURE DEPTH REQUIRES PIPE WALL TO BE POURED INTEGRAL TO ROOF
- (2) CASTING TO BE PLACED IN CARLSON CURB (4" HEIGHT)



-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

EROSION CONTROL NOTES:

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

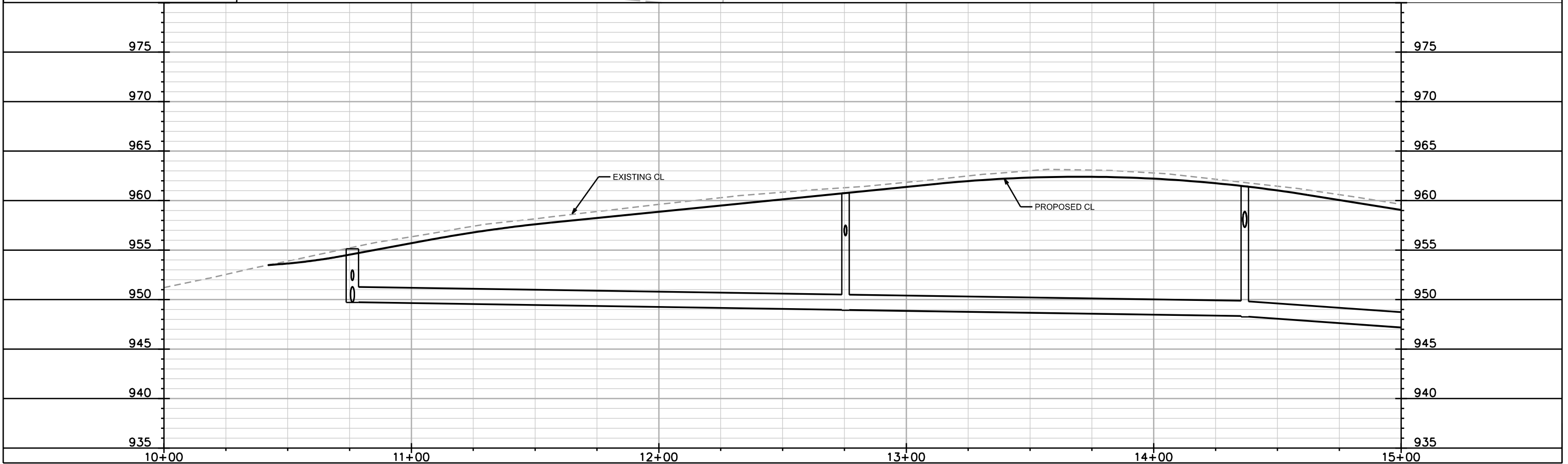
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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.

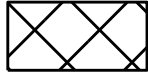






PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

-  STREET CONSTRUCTION ENTRANCE BERM
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

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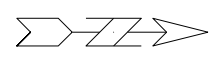
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

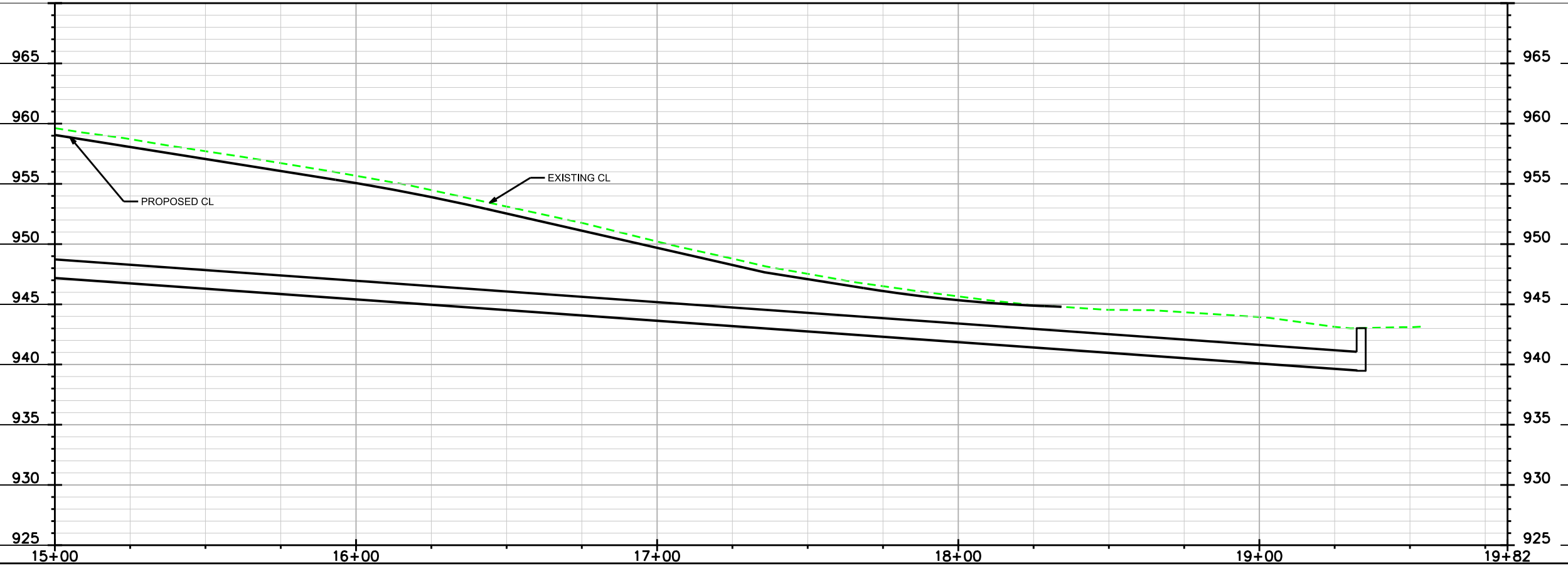
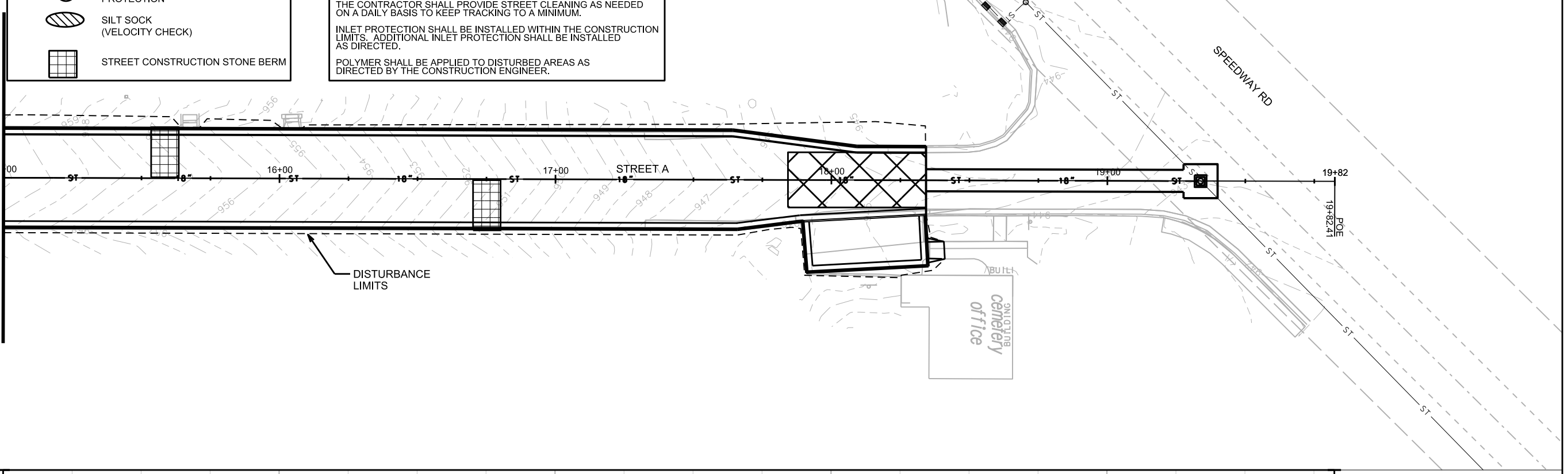
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

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



MATCHLINE STA 15+00.00



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL NOTES:

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

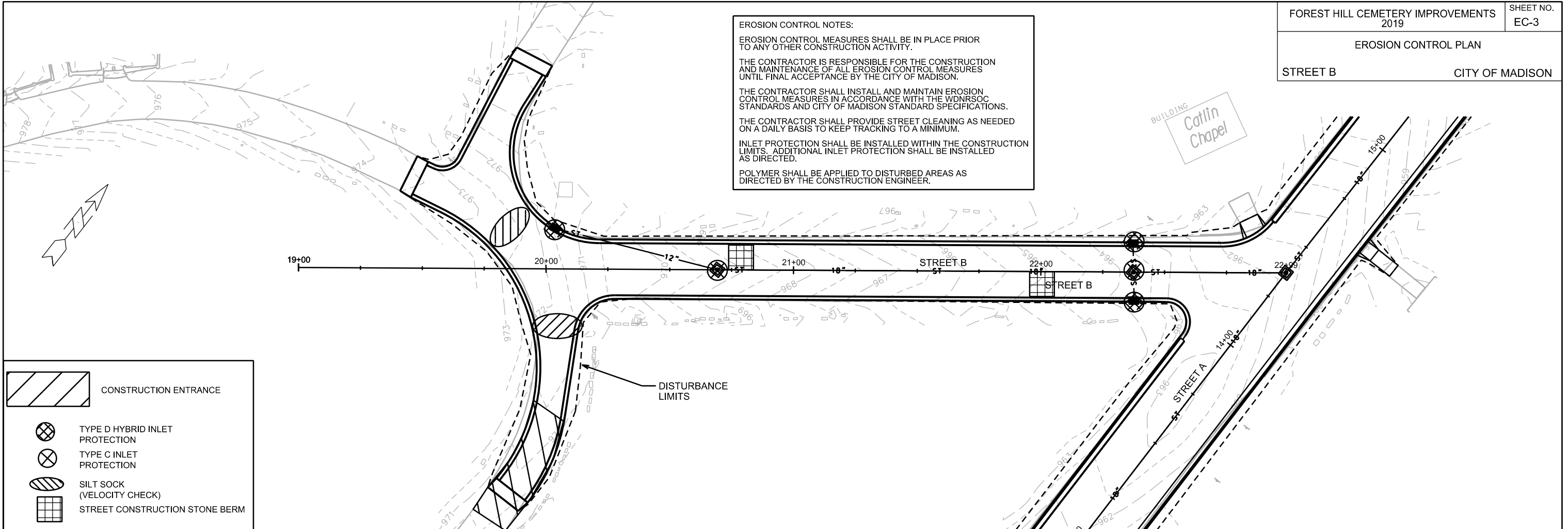
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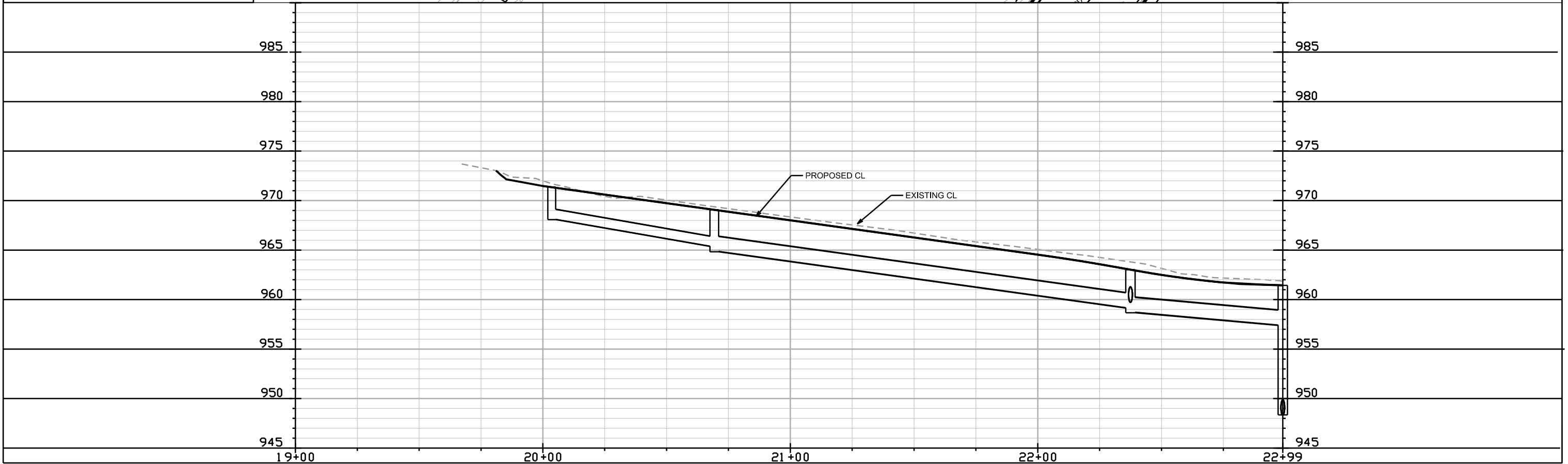
CONSTRUCTION ENTRANCE

TYPE D HYBRID INLET PROTECTION

TYPE C INLET PROTECTION

SILT SOCK (VELOCITY CHECK)

STREET CONSTRUCTION STONE BERM



PLOT SCALE: _____

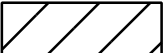




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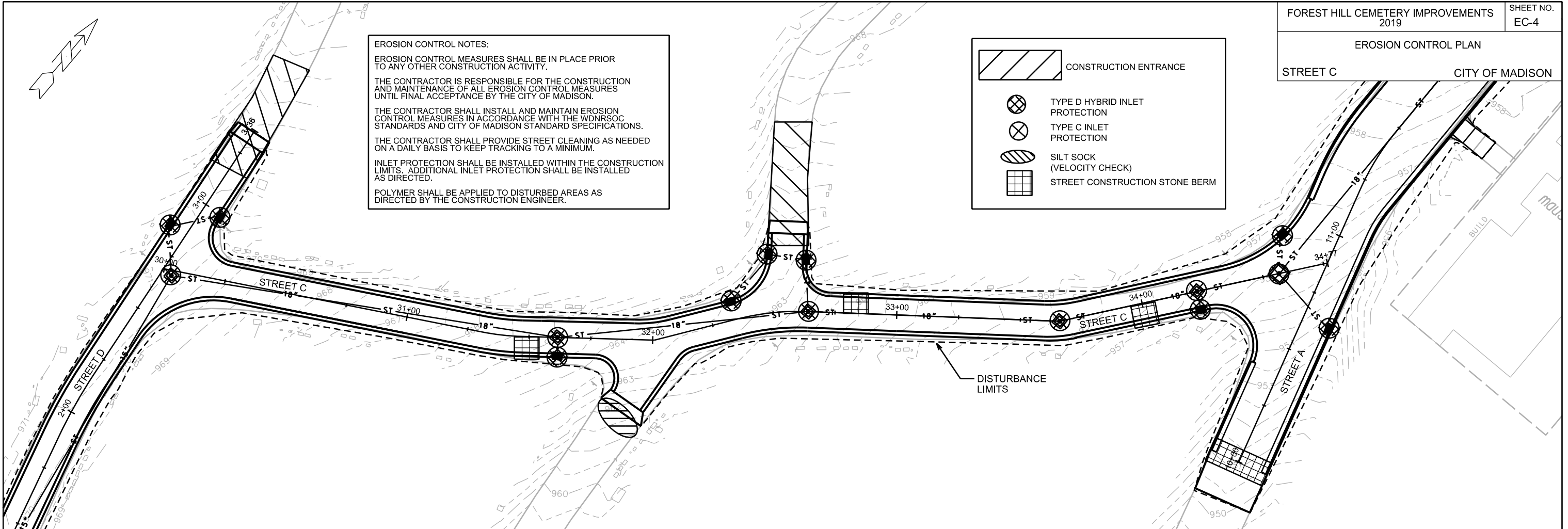
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN
STREET C CITY OF MADISON

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	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (VELOCITY CHECK)
	STREET CONSTRUCTION STONE BERM



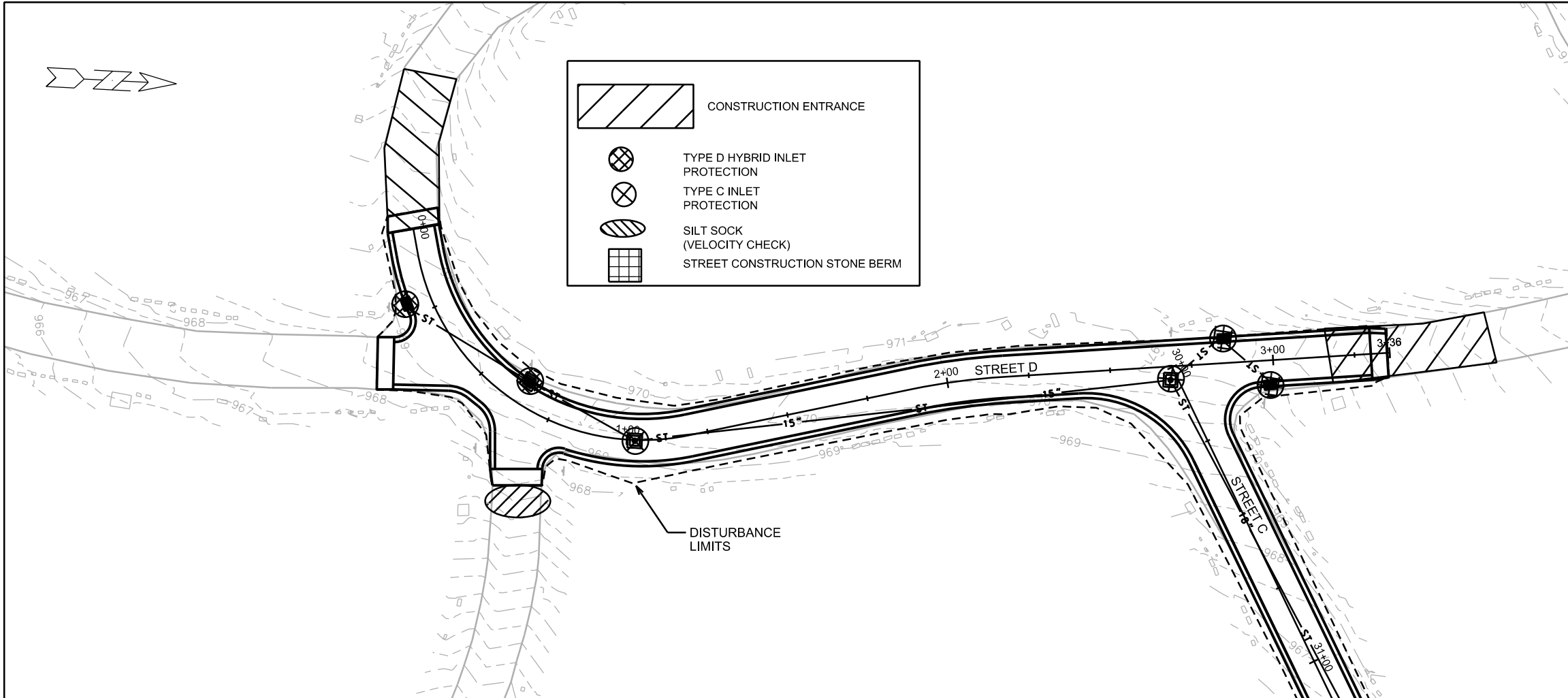
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

	CONSTRUCTION ENTRANCE
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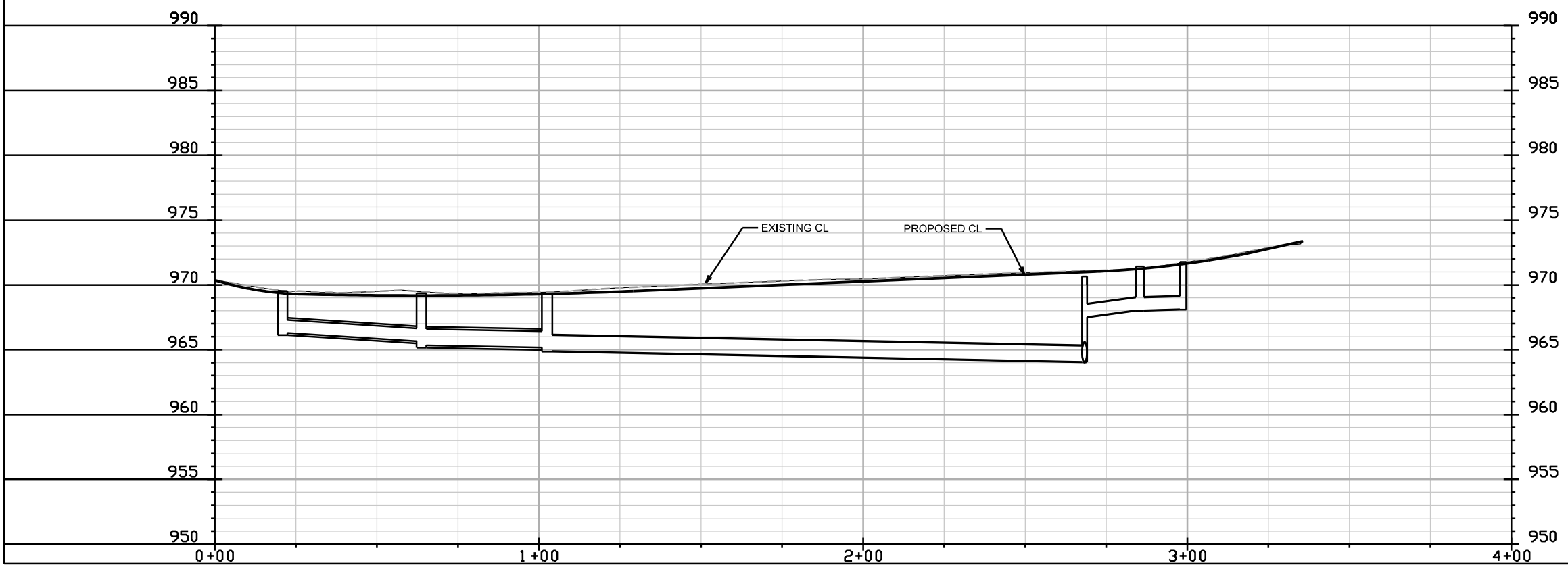
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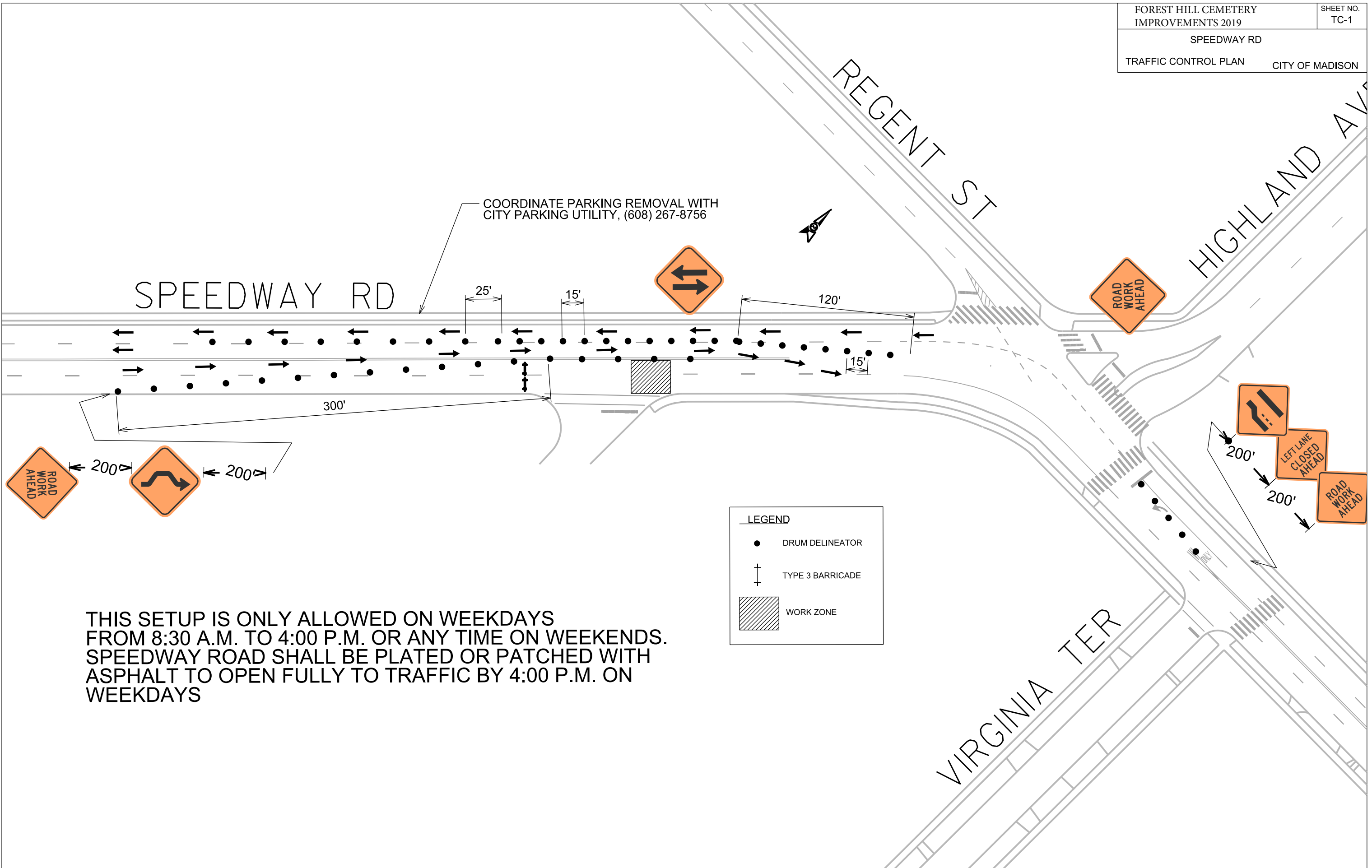
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



THIS SETUP IS ONLY ALLOWED ON WEEKDAYS FROM 8:30 A.M. TO 4:00 P.M. OR ANY TIME ON WEEKENDS. SPEEDWAY ROAD SHALL BE PLATED OR PATCHED WITH ASPHALT TO OPEN FULLY TO TRAFFIC BY 4:00 P.M. ON WEEKDAYS

LEGEND

- DRUM DELINEATOR
- ⊥ TYPE 3 BARRICADE
- ▨ WORK ZONE