

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

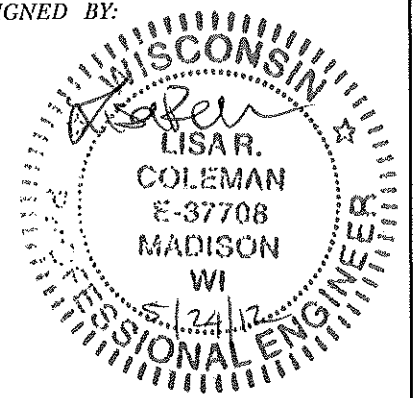
May 1, 2012 and May 15, 2012

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 5/25/12
City Engineer Date

DESIGNED BY:

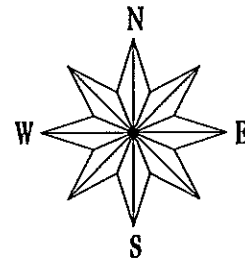


INDEX OF SHEETS

SHEET NO.	TITLE
SHEET NO. 1	QUANTITY SHEET
SHEET NO. Q1	FORSYTHIA DETAILS
SHEET NO. FD1	FORSYTHIA EROSION CONTROL PLAN
SHEET NO. FE1-FE3	FORSYTHIA PLAN AND PROFILE
SHEET NO. FPI-FP3	FORSYTHIA SANITARY SEWER SCHEDULE
SHEET NO. FSS-1	FORSYTHIA CROSS SECTIONS
SHEET NO. FX1-FX7	BORDNER DETAILS
SHEET NO. BDI	BORDNER EROSION CONTROL PLAN
SHEET NO. BE1-BE2	BORDNER PLAN AND PROFILE
SHEET NO. BPI-BP2	BORDNER CROSS SECTIONS
SHEET NO. BX1-BX8	

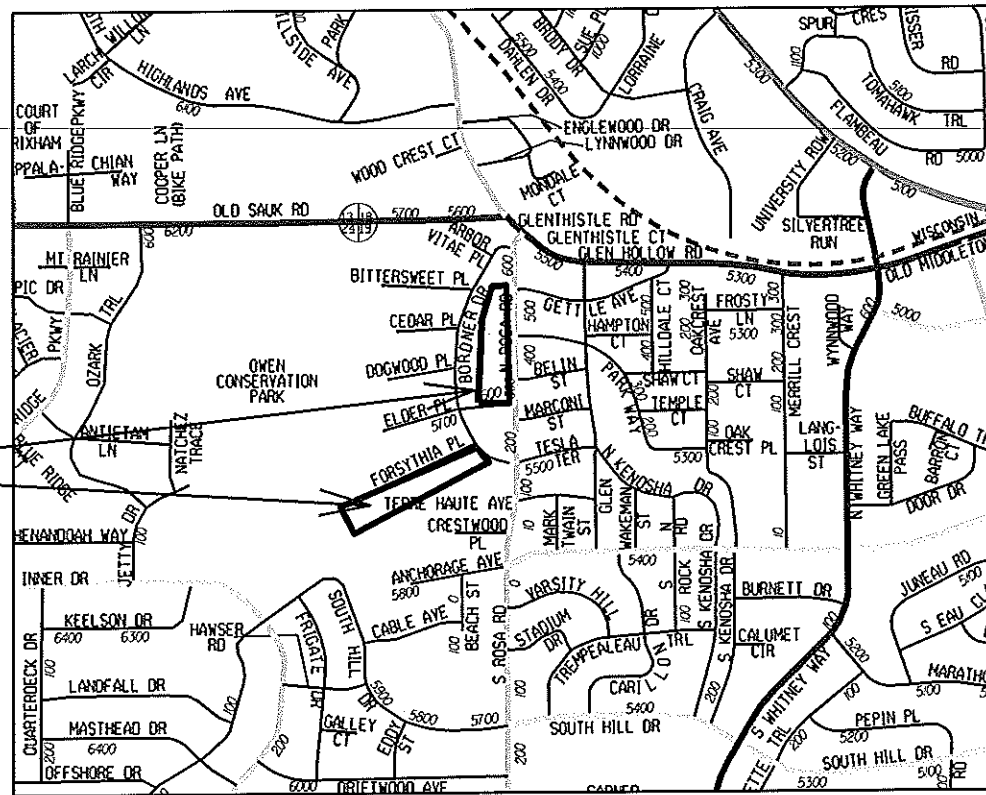
FORSYTHIA CUNETTE REHABILITATION and BORDNER PARK - CUNETTE REMOVAL

CITY PROJECT NOS. 53W0942 and 53W1437
CONTRACT NO. 6741



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▬
COMBUSTIBLE FLUIDS	

CONSTRUCTION PROJECT LOCATIONS



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

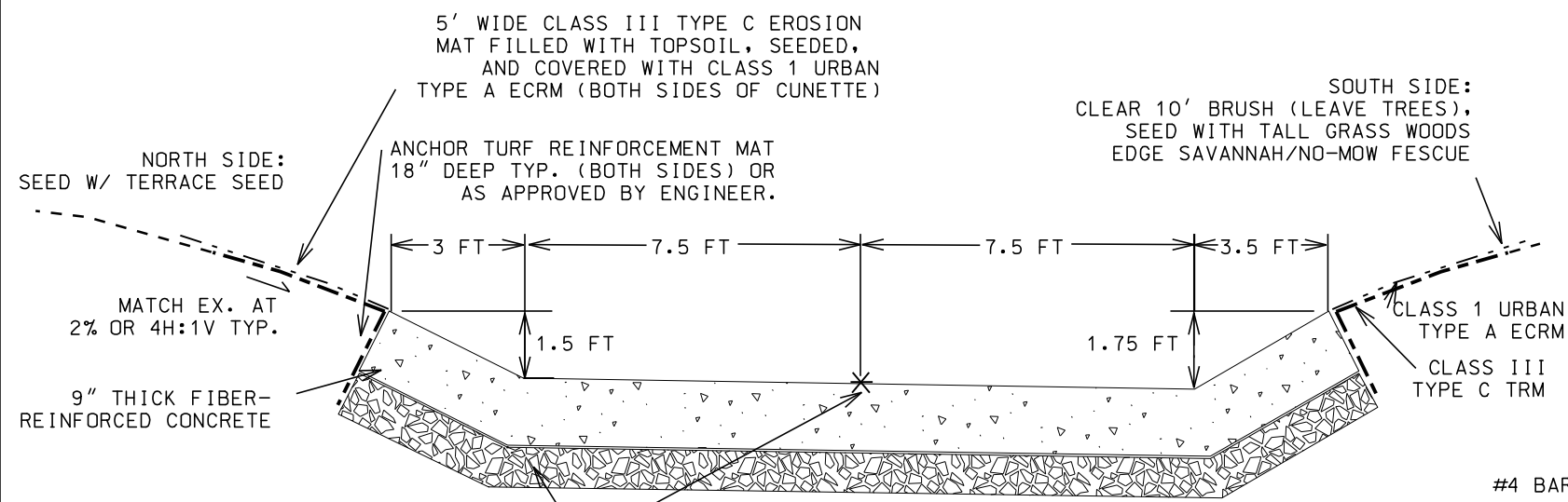
Quantities for Bid Items Common to Both Projects

FORSYTHIA CUNETTE & BORDNER PARK PROJECT NOS. 53W0942 AND 53W1437	SHEET NO. Q-1
QUANTITY SHEET	CITY OF MADISON

BID ITEM	TYPE OF WORK	UNIT	TOTAL EST. QUANTITY	FORSYTHIA QUANTITY		BORDNER QUANTITY	
				ACCT NO ESTM 58270 810382 00 53W0942	ACCT NO ESTM 58270 810382 00 53W1437		
10701	TRAFFIC CONTROL	LS	2.0	1.0		1.0	
10911	MOBILIZATION	LS	2.0	1.0		1.0	
20101	EXCAVATION CUT	CY	3463.0	853.0		2610.0	
20217	CLEAR STONE	TON	100.0	50.0		50.0	
20221	TOPSOIL	SY	5578.0	2241.0		3337.0	
20233	RIPRAP FILTER FABRIC, TYPE HR	SY	2556.0	44.0		2512.0	
20234	HEAVY RIPRAP - FIELD STONE	TON	3109.0	61.0		3048.0	
20328	REMOVE EX. CUNETTE	SY	3176.0	2361.0		815.0	
21001	EROSION CONTROL PLAN & IMPLEMENTATION	LS	2.0	1.0		1.0	
21002	EROSION CONTROL INSPECTION	EA	10.0	5.0		5.0	
21011	CONSTRUCTION ENTRANCE	EA	2.0	1.0		1.0	
21013	STREET SWEEPING	LS	2.0	1.0		1.0	
21020	TEMPORARY DITCH CHECK	EA	6.0	3.0		3.0	
21052	POLYMER STABILIZATION	SY	5578.0	2241.0		3337.0	
21083	EROSION MATTING, CLASS III, TYPE C	SY	1870.0	1097.0		773.0	
90030	STORM CONTROL	EA	2.0	1.0		1.0	
90031	TEMPORARY FENCING	LF	1497.0	175.0		1322.0	
90032	VEGETATION MAINTENANCE	LS	2.0	1.0		1.0	

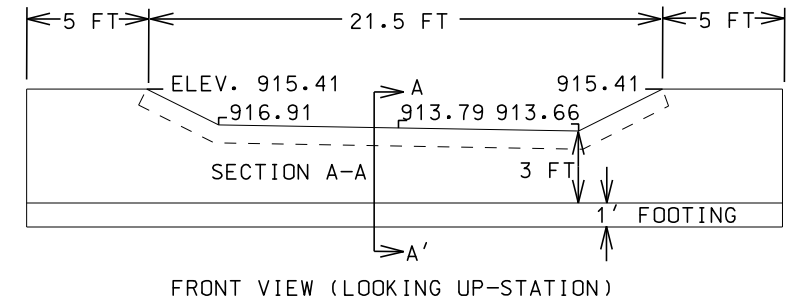
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 PLOT NAME: ---
 REV. DATE: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION

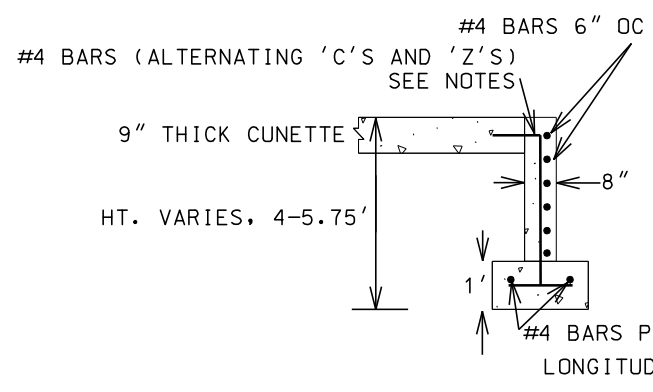


TYPICAL SECTION CONCRETE CUNETTE

- NOTES:**
- CONTRACTION JOINTS SHALL BE DOWELED PER S.D.D. 3.11. JOINTS SHALL BE 20' APART OR AS DIRECTED BY CONSTRUCTION ENGINEER. DOWELS REQUIRED ACROSS BOTTOM OF CUNETTE - NO DOWELS REQUIRED ON SIDE SLOPES. NO BOND BREAKER REQUIRED.
 - ALL JOINTS TO BE SEALED WITH SONOLASTIC GUN GRADE CAULK, GREY COLOR.
 - DEEPEN CHANNEL SLIGHTLY AT DOWNSTREAM END TO MATCH EXISTING CUNETTE, SEE CROSS SECTIONS.



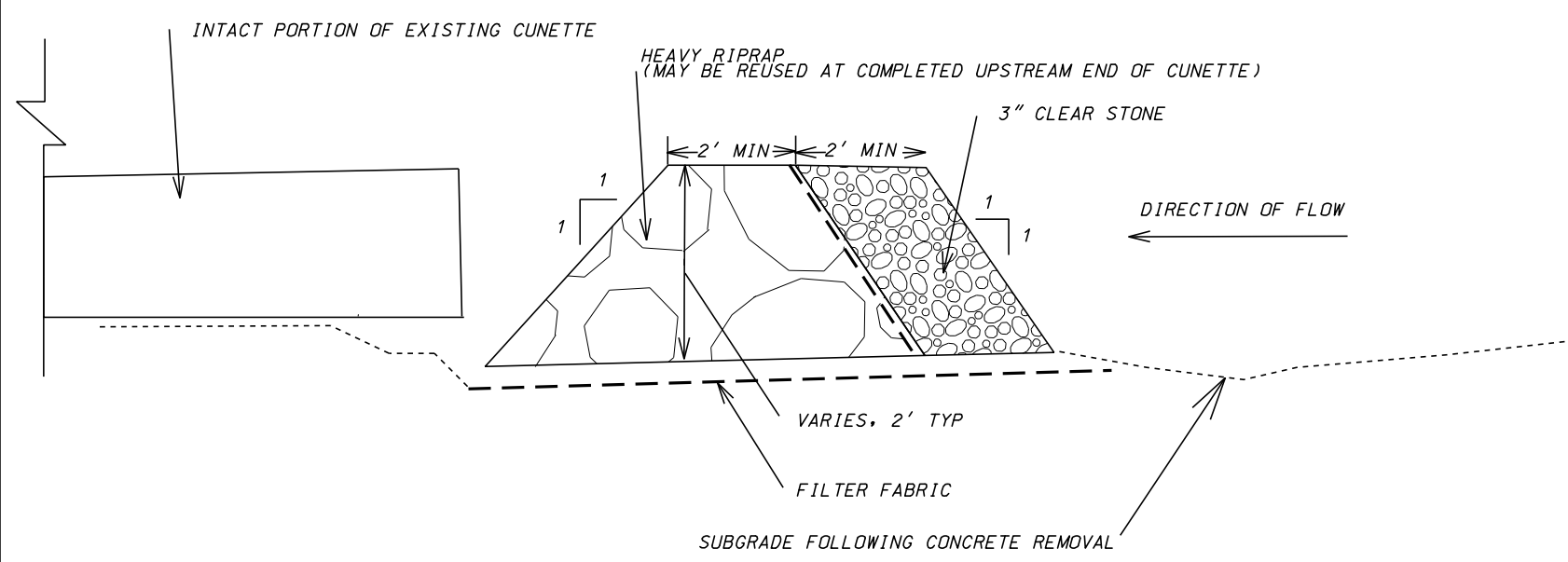
FRONT VIEW (LOOKING UP-STATION)



SECTION A-A'

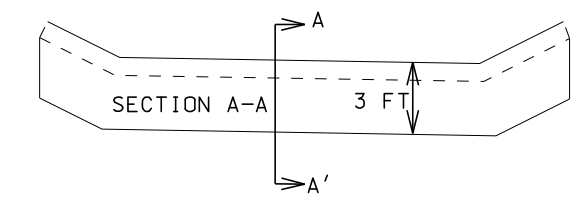
**CUTOFF WALL AT UPSTREAM END
(DOWNSTREAM FACE AT STA. 1+34.95)**

- NOTES:**
- FOOTING SHALL HAVE 12" OF GRADATION #1 BEDDING
 - CONNECTION OF CUTOFF WALL TO CUNETTE: THE #4 BAR REINFORCING OF THE CUTOFF WALL SHALL BE FIELD BENT INTO 'C' AND 'Z' SHAPES WITH 8" AND 6" LEGS. BARS SHALL BE SPACED ON APPROXIMATE 24" CENTERS. THE 8" LEG ALTERNATES INTO THE FOOTING AND THE 12" LEG IS EMBEDDED INTO THE CUNETTE.

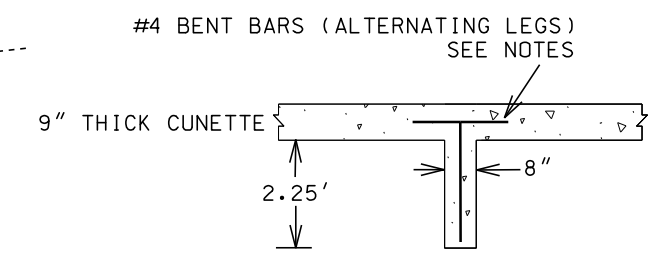


TEMPORARY DITCH CHECK DETAIL

NOT TO SCALE



FRONT VIEW

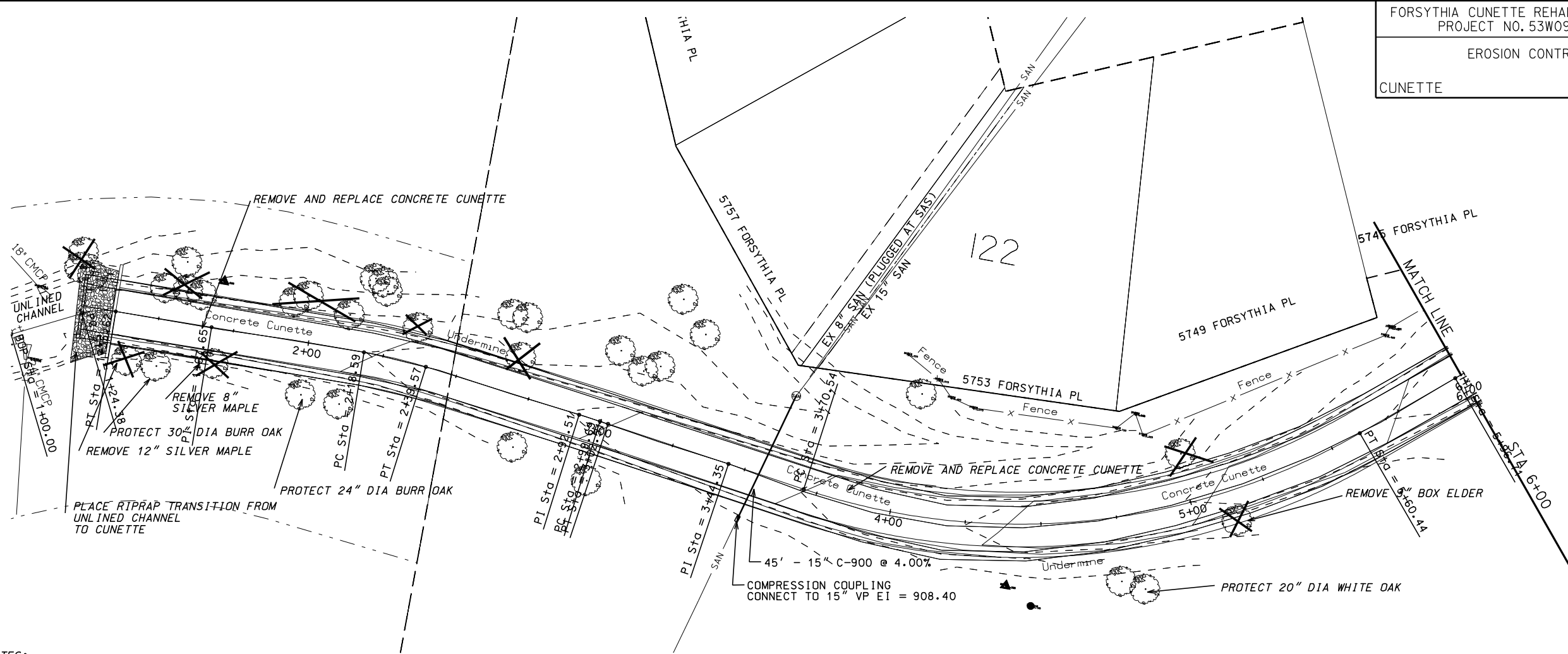


INTERMITTENT CUTOFF WALL

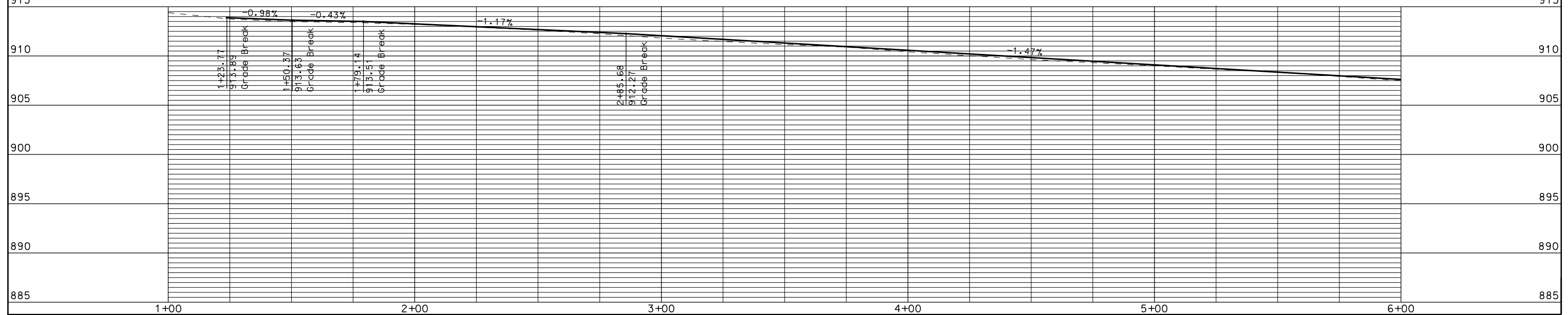
- NOTES:**
- FOOTING SHALL HAVE 12" OF GRADATION #1 BEDDING.
 - CONNECTION OF CUTOFF WALL TO CUNETTE: THE #4 BAR REINFORCING OF THE CUTOFF WALL SHALL BE FIELD BENT INTO 'L' SHAPES WITH DIMENSIONS OF 28.5" X 12". BARS SHALL BE SPACED ON APPROXIMATE 24" CENTERS. THE 12" LEG ALTERNATES TO EACH SIDE INTO THE CUNETTE.
 - PLACE INTERMITTENT CUTOFF WALL AT LEAST 5' FROM NEAREST JOINT.

PLOT SCALE: PLOT NAME: REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

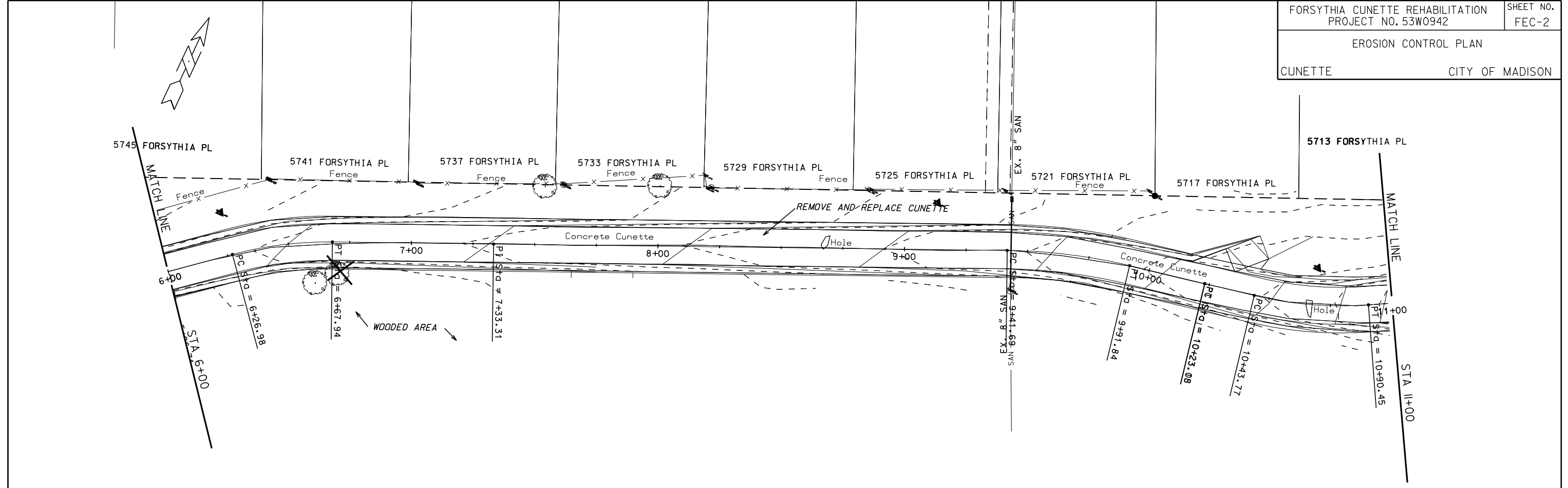


- EROSION CONTROL NOTES:**
1. INSTALL 5'-MIN WIDE CLASS III TYPE C ECRM ALONG BOTH SIDES CUNETTE. 925
 2. ALL DISTURBED AREAS OUTSIDE CUNETTE TO BE TOPSOILED AND SEEDING WITH TERRACE SEED (N SIDE) OR TALL GRASS WOODS EDGE SAVANNAH/NO-MOW FESCUE (S SIDE), AND COVERED WITH CLASS 1 URBAN TYPE A EROSION MAT. 920
 3. CONSTRUCTION SHALL BE STAGED. THE ENTIRE CUNETTE SHALL NOT BE REMOVED AT ONCE--IT MUST BE REMOVED AND REPLACED IN SEGMENTS. CONTRACTOR SHALL SUBMIT DETAILED PHASING AND STAGING PLAN FOR CITY REVIEW WITH REQUIRED EROSION CONTROL IMPLEMENTATION PLAN. PLAN SHALL DESCRIBE PLANNED REMOVAL AND REPLACEMENT LENGTHS AND SCHEDULES AND IS SUBJECT TO MODIFICATION BY THE CITY. 915
 4. INSTALL CONSTRUCTION ENTRANCE AT BORDNER DRIVE. CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NECESSARY ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
 5. POLYMER SHALL BE APPLIED AT THE DISCRETION OF THE CONSTRUCTION ENGINEER.
 6. CONTRACTOR SHALL BE DILIGENT IN REVIEWING WEATHER FORECASTS TO MANAGE EROSION CONTROL, CONCRETE POURING SCHEDULE, AND TO PLAN FOR STORMWATER CONTROL AND BYPASS DURING THE PROJECT.
 7. CONTRACTOR SHALL INSTALL TEMPORARY CHECK DAMS DOWNSTREAM OF AREAS WHERE THE CUNETTE HAS BEEN REMOVED BUT NOT YET REPLACED AS NEEDED AND AS DIRECTED BY CONSTRUCTION ENGINEER. SEE DETAIL SHEET FOR CHECK DAM DETAIL.



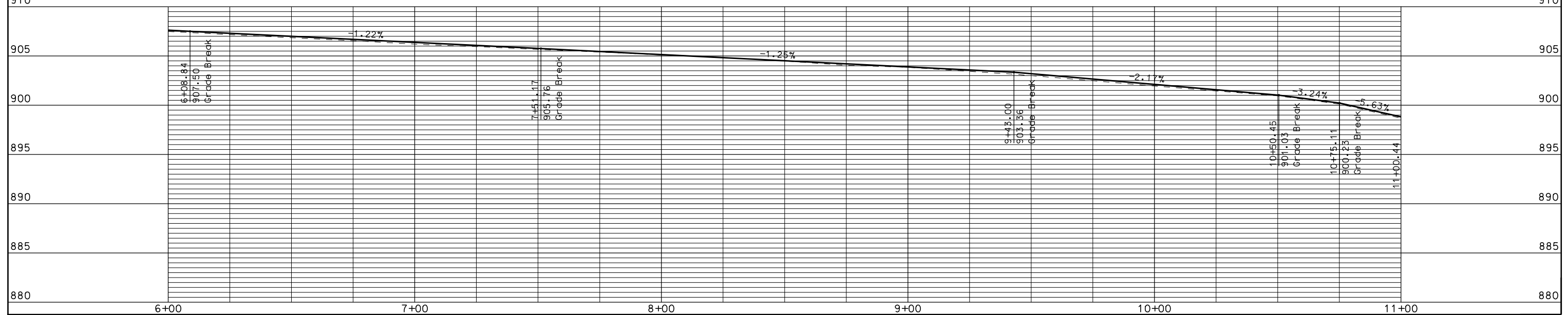
PLOT SCALE: REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



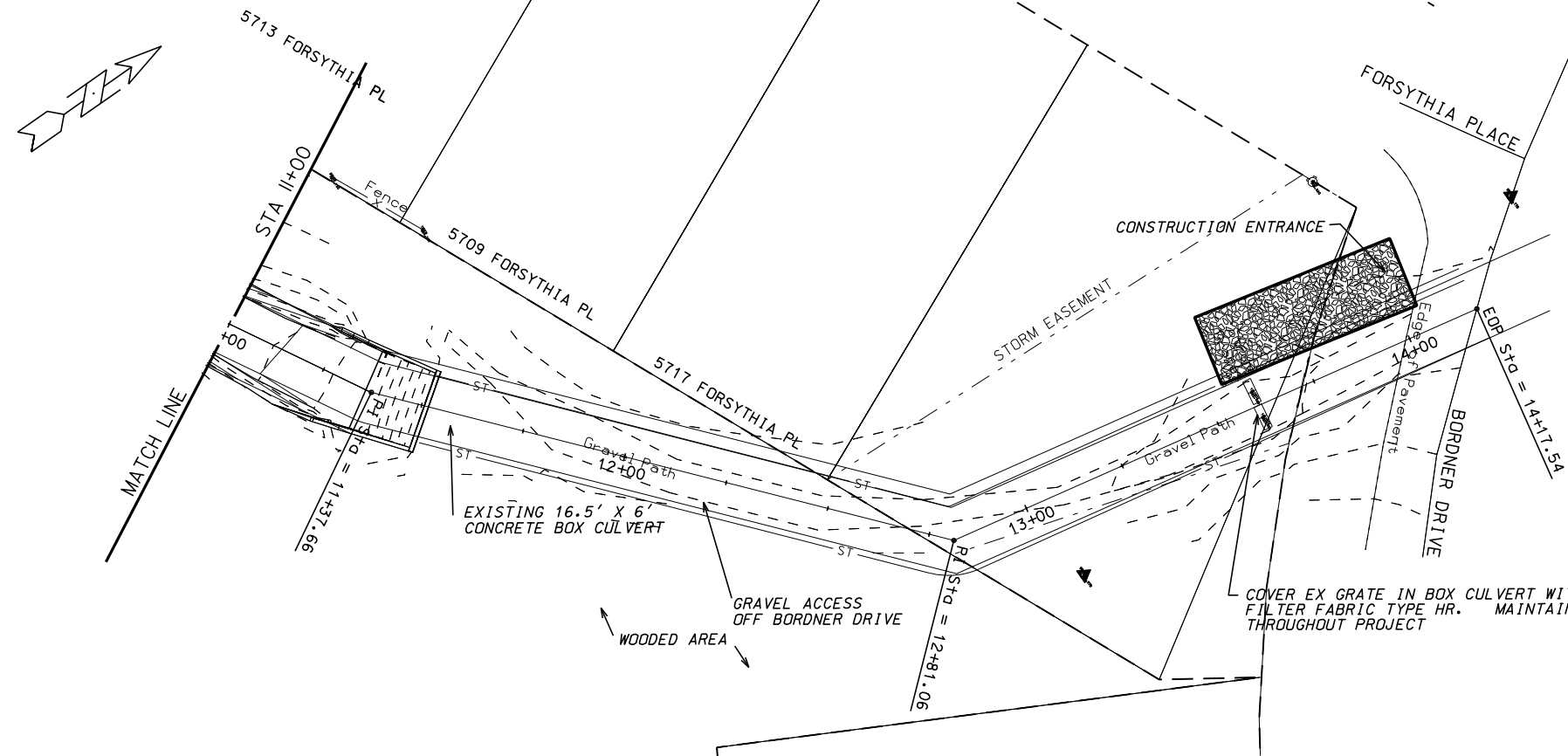
EROSION CONTROL NOTES:

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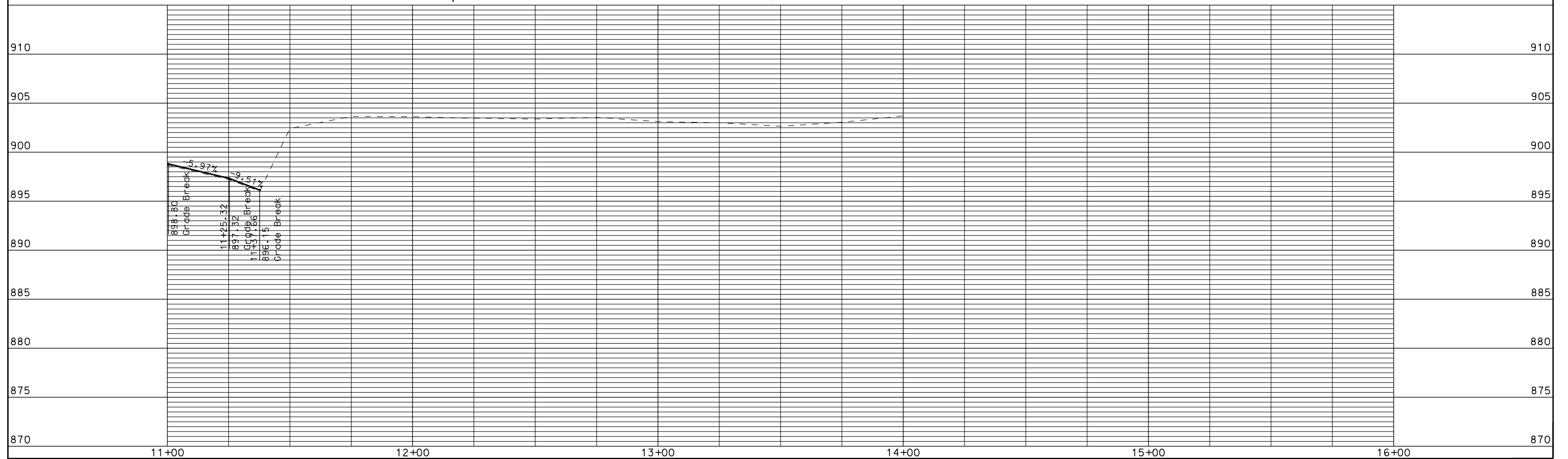
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1"=40'
REV. DATE:



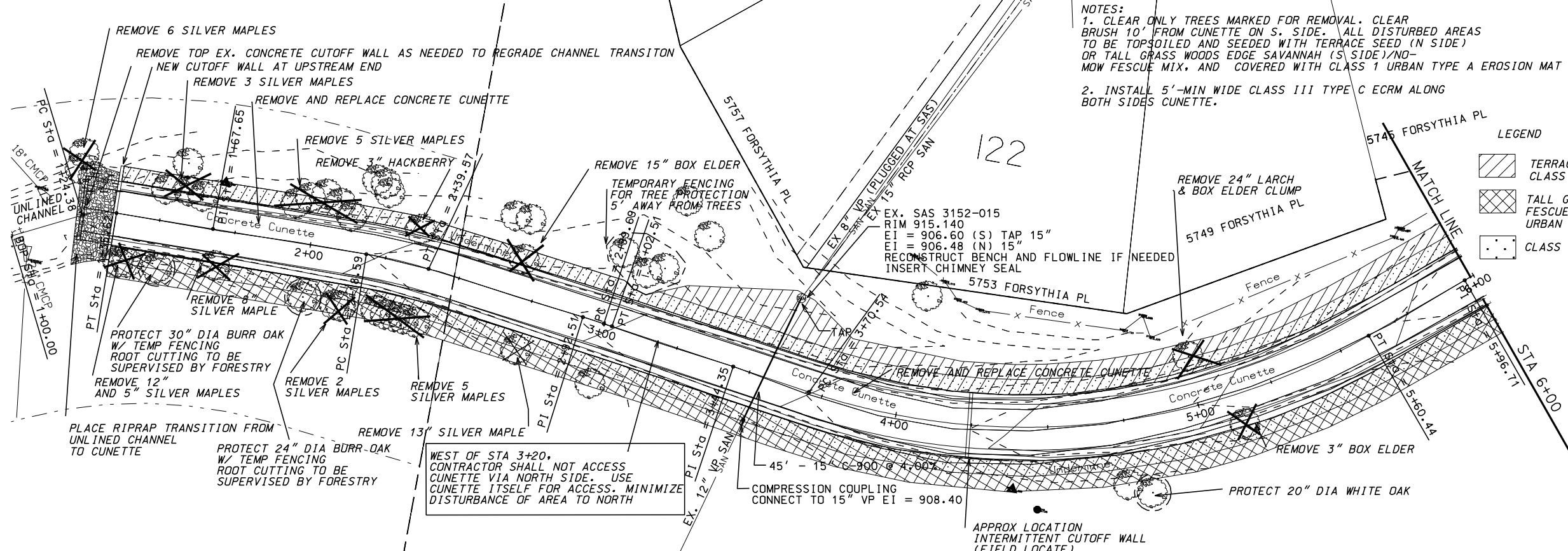
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COVER EX GRATE IN BOX CULVERT WITH FILTER FABRIC TYPE HR. MAINTAIN AS NEEDED THROUGHOUT PROJECT



PLOT SCALE: PLOT NAME: REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



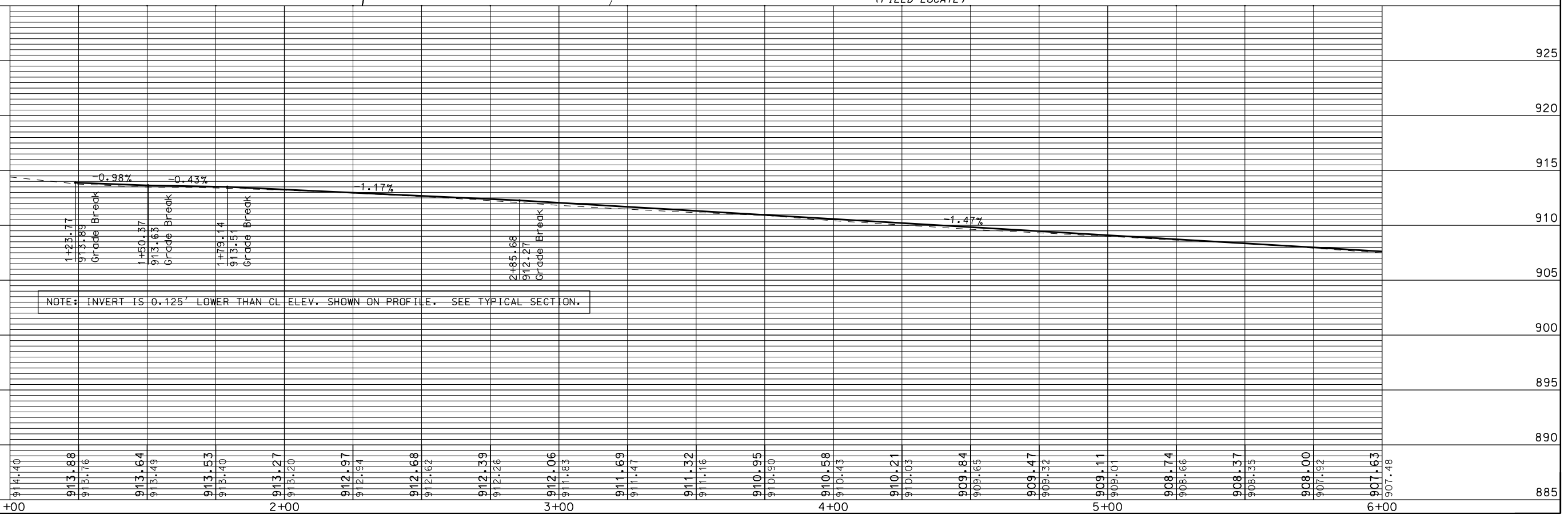
NOTES:
1. CLEAR ONLY TREES MARKED FOR REMOVAL. CLEAR BRUSH 10' FROM CUNETTE ON S. SIDE. ALL DISTURBED AREAS TO BE TOPSOILED AND SEEDED WITH TERRACE SEED (N SIDE) OR TALL GRASS WOODS EDGE SAVANNAH (S SIDE)/NO-MOW FESCUE MIX, AND COVERED WITH CLASS 1 URBAN TYPE A EROSION MAT
2. INSTALL 5'-MIN WIDE CLASS III TYPE C ECRM ALONG BOTH SIDES CUNETTE.

- LEGEND
- TERRACE SEEDING & CLASS 1 URBAN TYPE A ECRM
 - TALL GRASS WOODS EDGE/NO MOW FESCUE SEEDING MIX & CLASS 1 URBAN TYPE A ECRM
 - CLASS III, TYPE C ECRM (TRM)

PLOT SCALE: 1" = 40'

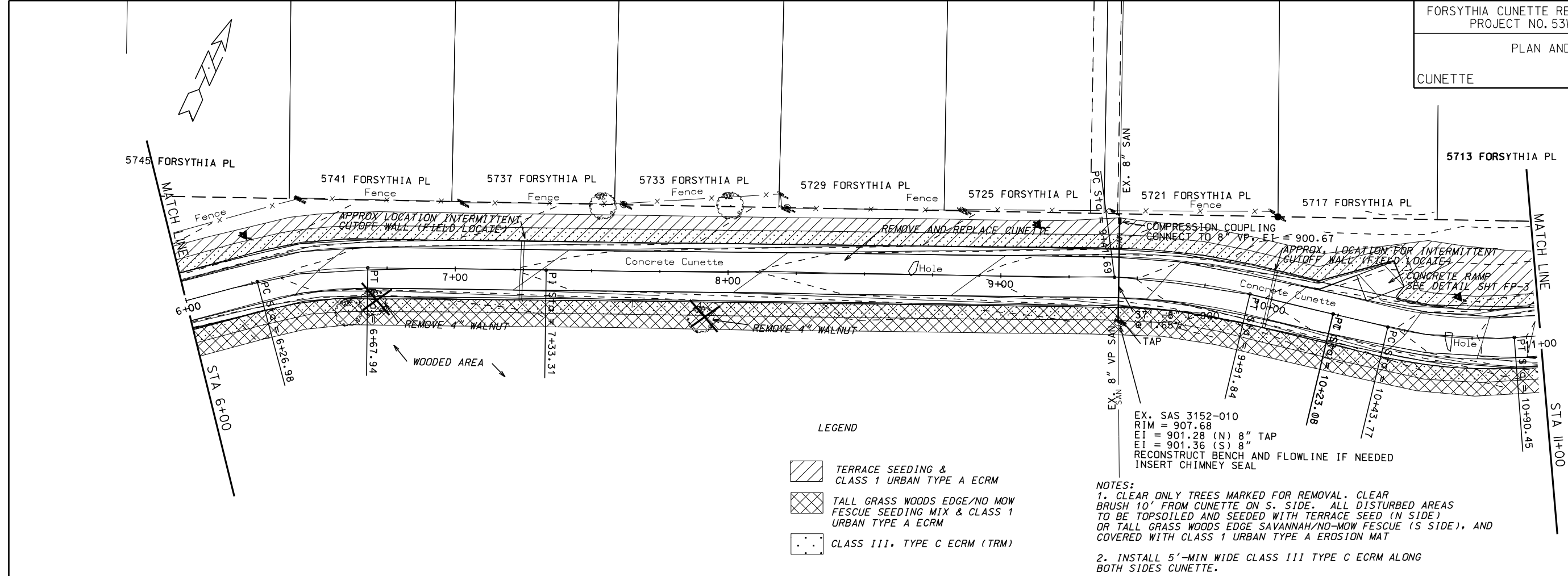
PLOT NAME:

REV. DATE:



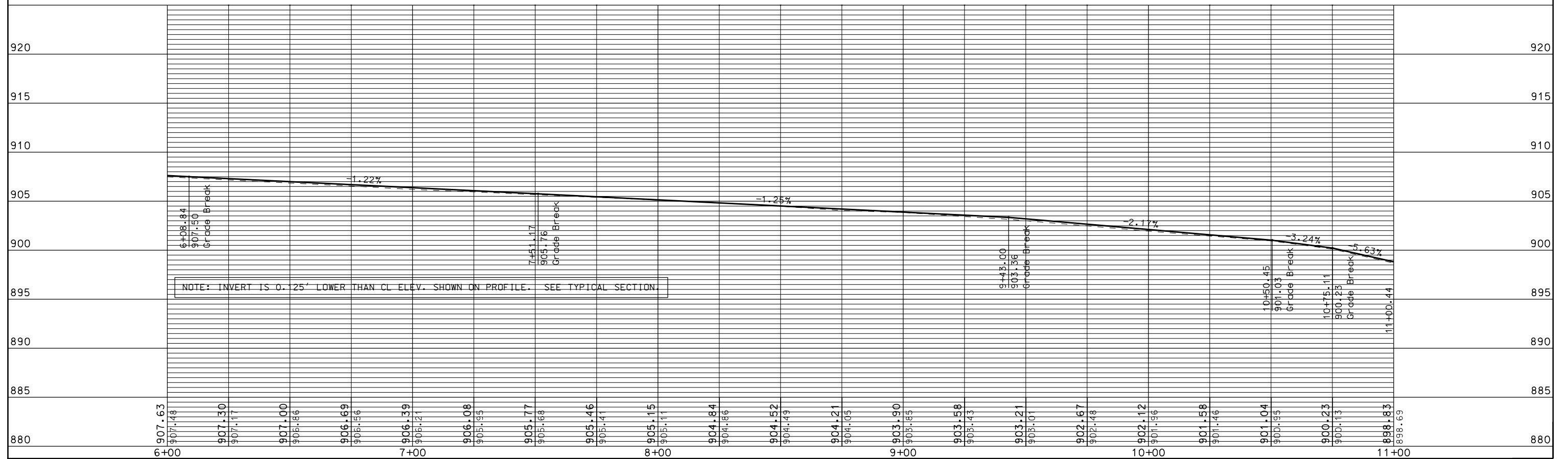
NOTE: INVERT IS 0.125' LOWER THAN CL ELEV. SHOWN ON PROFILE. SEE TYPICAL SECTION.

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- LEGEND
- TERRACE SEEDING & CLASS 1 URBAN TYPE A ECRM
 - TALL GRASS WOODS EDGE/NO MOW FESCUE SEEDING MIX & CLASS 1 URBAN TYPE A ECRM
 - CLASS III, TYPE C ECRM (TRM)

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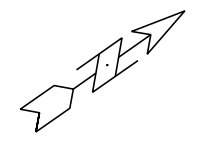


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT NAME: PLOT SCALE:

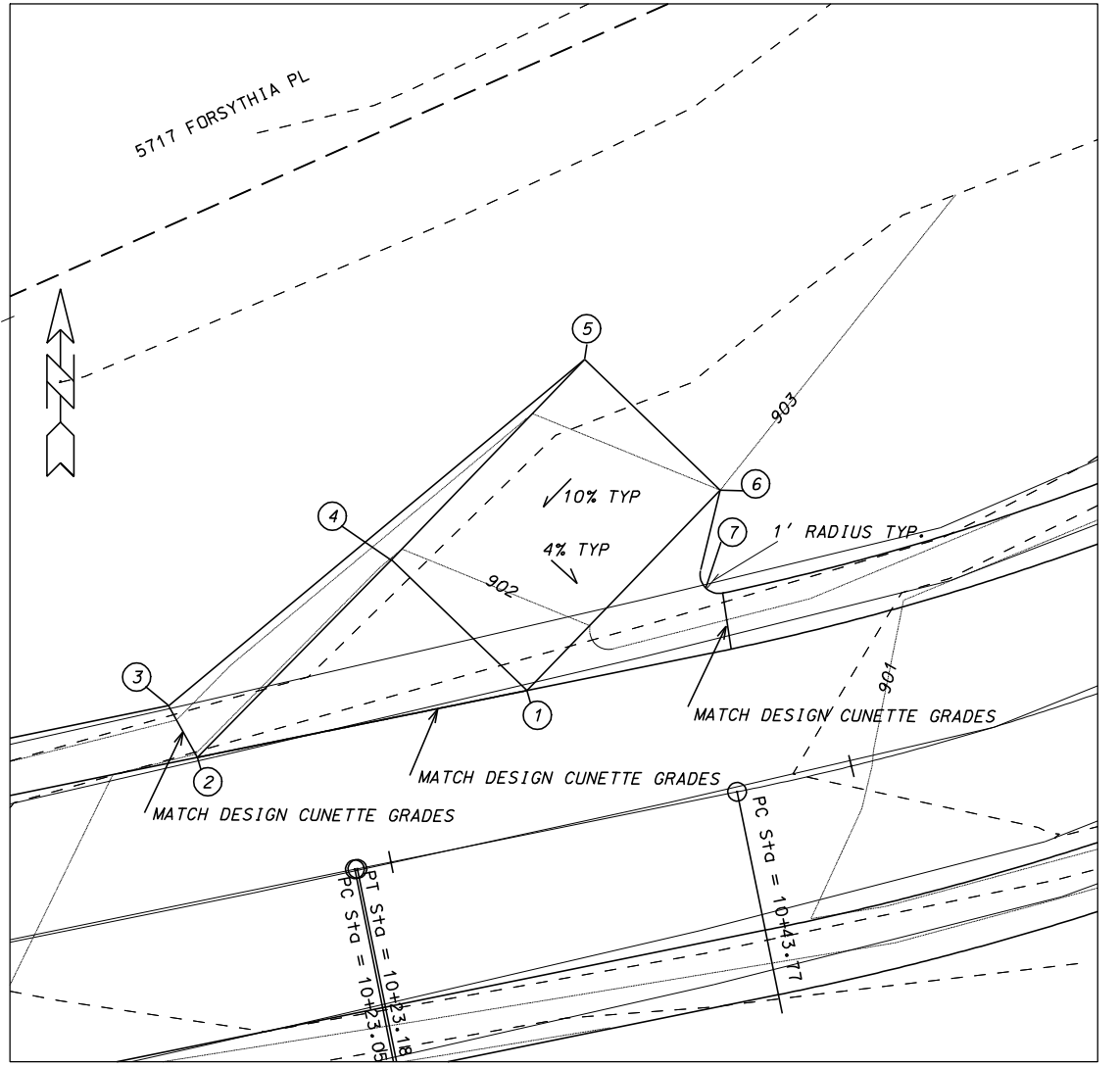
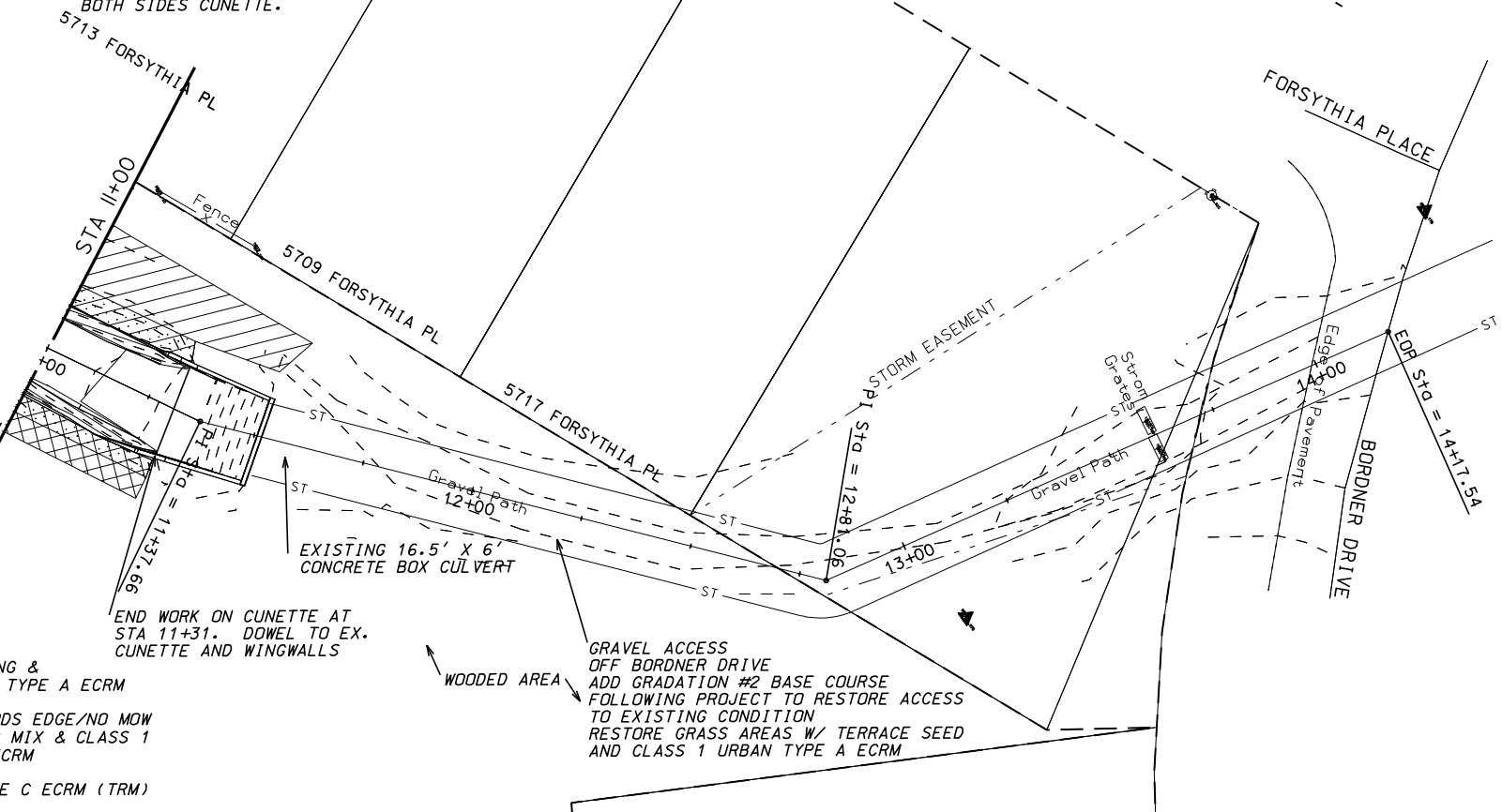
REV. DATE:

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 2. INSTALL 5'-MIN WIDE CLASS III TYPE C ECRM ALONG BOTH SIDES CUNETTE.



- LEGEND
- TERRACE SEEDING & CLASS 1 URBAN TYPE A ECRM
 - TALL GRASS WOODS EDGE/NO MOW FESCUE SEEDING MIX & CLASS 1 URBAN TYPE A ECRM
 - CLASS III, TYPE C ECRM (TRM)

EXISTING 16.5' X 6' CONCRETE BOX CULVERT
 END WORK ON CUNETTE AT STA 11+31. DOWEL TO EX. CUNETTE AND WINGWALLS
 WOODED AREA
 GRAVEL ACCESS OFF BORDNER DRIVE ADD GRADATION #2 BASE COURSE FOLLOWING PROJECT TO RESTORE ACCESS TO EXISTING CONDITION RESTORE GRASS AREAS W/ TERRACE SEED AND CLASS 1 URBAN TYPE A ECRM

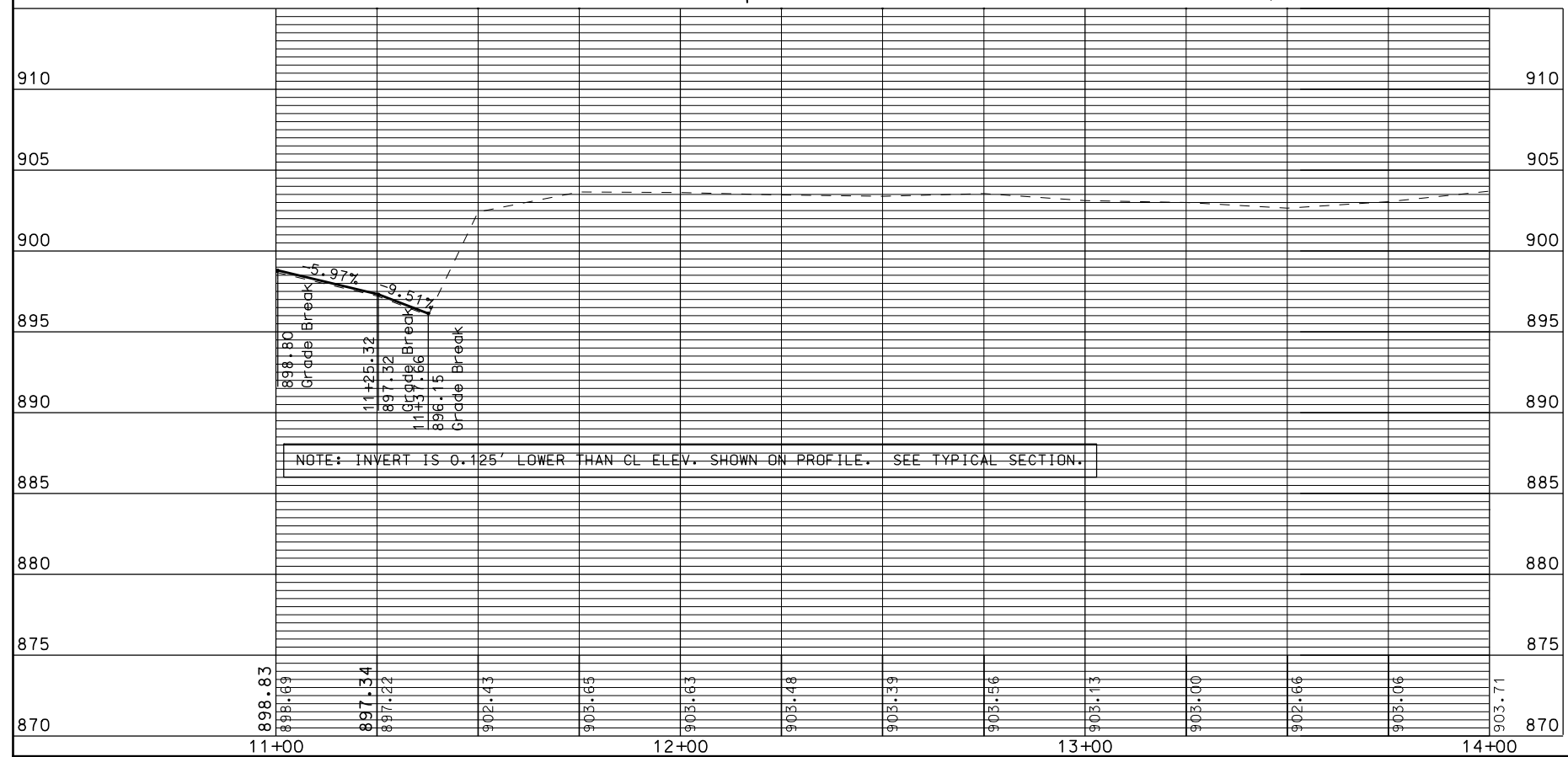


CONCRETE RAMP DETAIL 1" = 10'

POINT	NORTHING	EASTING	ELEVATION
①	480991.72	795538.63	901.52
②	480988.16	795521.09	901.90
③	480990.91	795519.58	903.42
④	480998.74	795531.50	901.92
⑤	481009.32	795541.70	903.40
⑥	481002.37	795548.90	903.00
⑦	480997.15	795548.14	902.80

NOTE: INVERT IS 0.125' LOWER THAN CL ELEV. SHOWN ON PROFILE. SEE TYPICAL SECTION.

PLOT SCALE: 1" = 10'
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SANITARY SCHEDULE

ALIGNMENT CODES:

'FC' =FORSYTHIA CUNETTE

FORSYTHIA CUNETTE REHABILITATION
PROJECT NO. 53W0942

SHEET NO.
FSS-1

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
COMP COUPLING	3'FC'+52.86	RT-16.22	---	908.40+/-	---	CONNECT TO EX. 15" VP
COMP COUPLING	9'FC'+43.14	LT-20.81	---	900.67+/-	---	CONNECT TO EX. 8" VP

PROPOSED SANITARY PIPES

FROM (DOWNSTREAM)	TO (UPSTREAM)	EI (DOWN)	EI (UP)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES:
SAS 3152-015	COMP COUPLING	906.60	908.40	45	4.00%	15"	C-900	TAP SAS, IF NEEDED RECON BENCH AND FLOW, (1)
COMP COUPLING	SAS 3152-010	900.67	901.28	37	1.65%	8"	C-900	TAP SAS, IF NEEDED RECON BENCH AND FLOW, (1)

SPECIFIC NOTES:

(1) INSTALL INTERNAL CHIMNEY SEAL

PLOT SCALE: ---

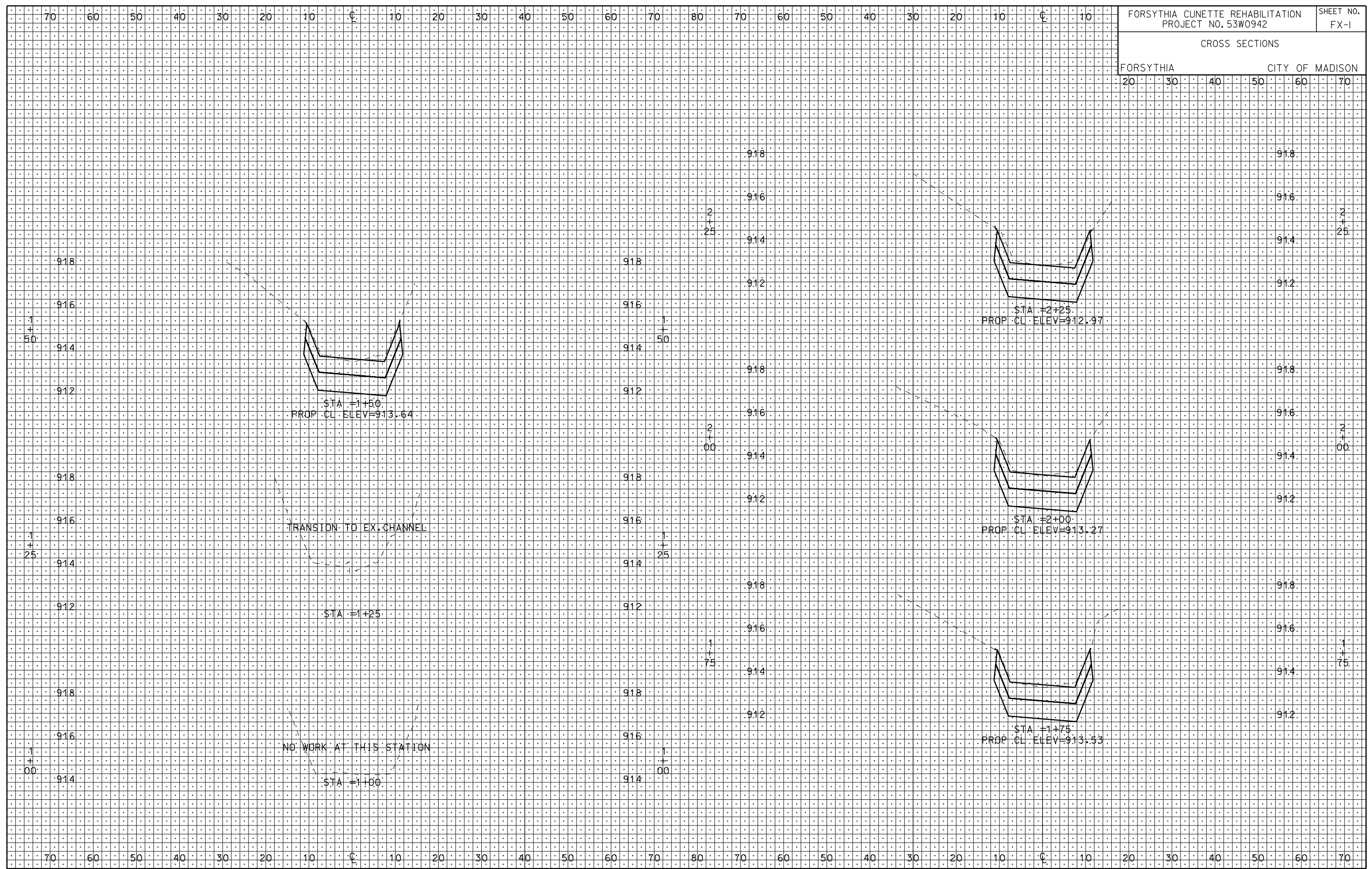
PLOT NAME: ---

REV. DATE: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION

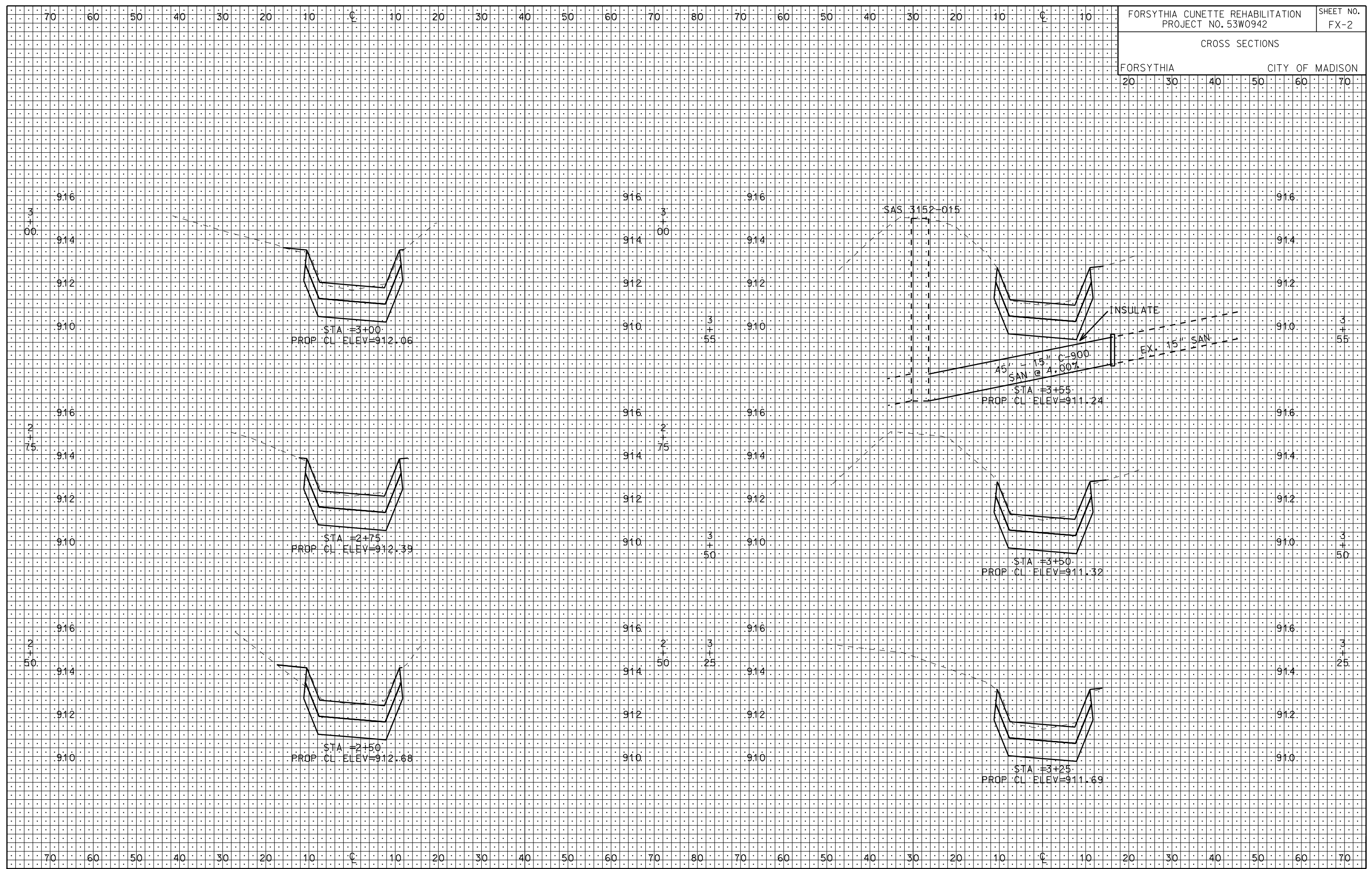
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1" = 25'
PLOT NAME:
REV. DATE:



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: PLOT NAME: PLOT SCALE:



FORSYTHIA CUNETTE REHABILITATION
PROJECT NO. 53W0942

SHEET NO.
FX-2

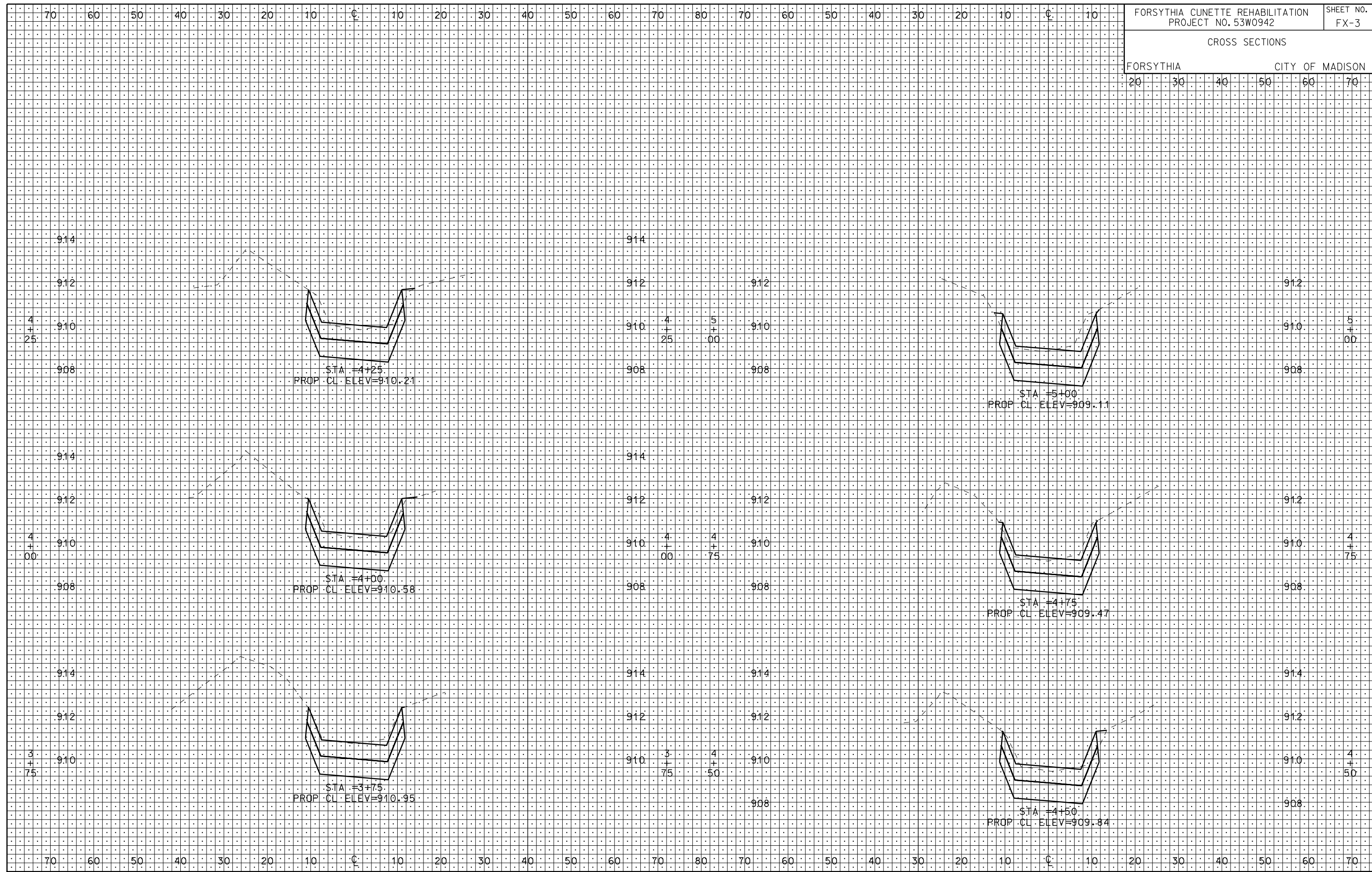
CROSS SECTIONS

FORSYTHIA CITY OF MADISON

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1"=10'

REV. DATE:



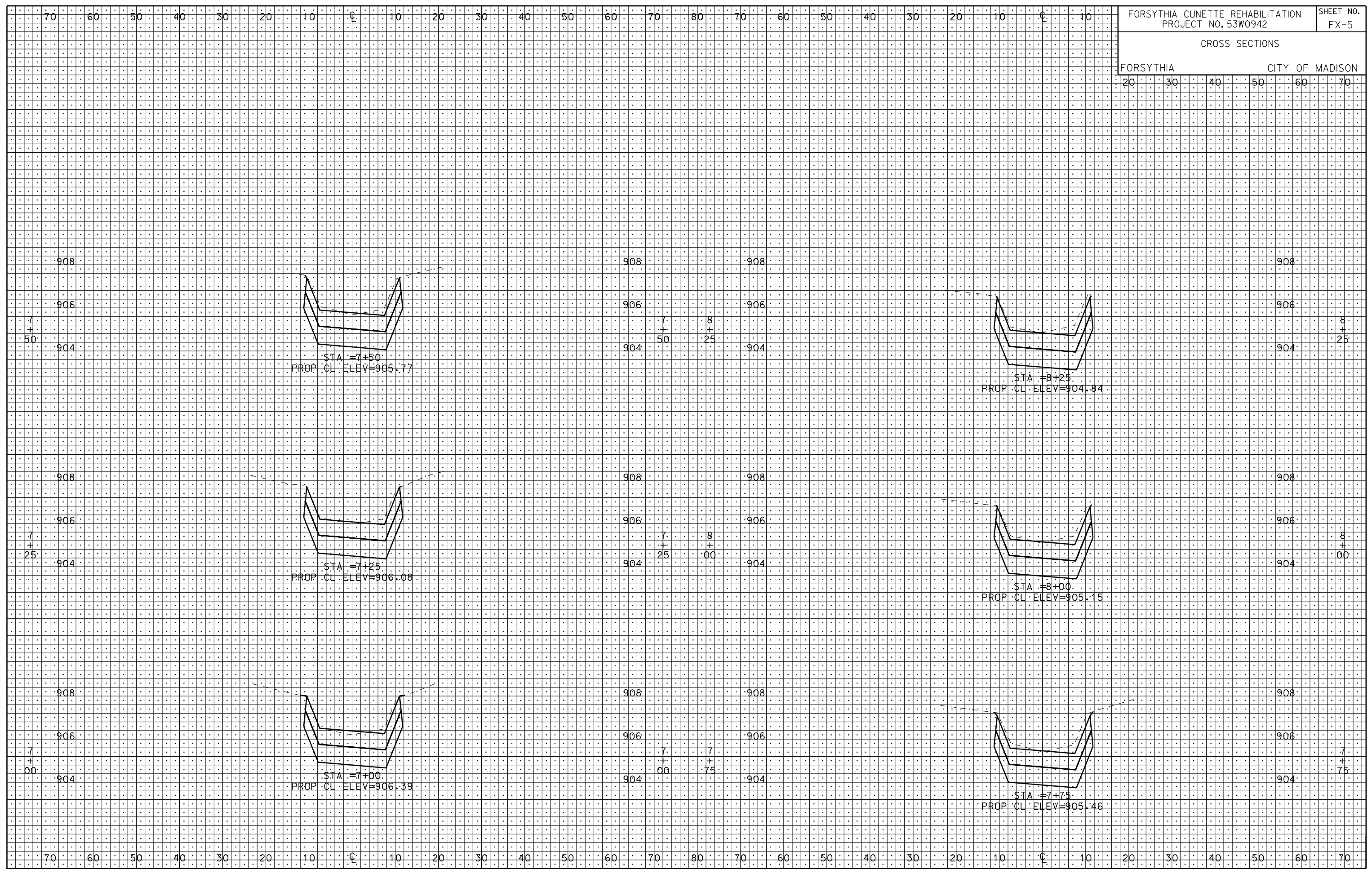
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: PLOT NAME: PLOT SCALE:



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT NAME: PLOT SCALE:



FORSYTHIA CUNETTE REHABILITATION
PROJECT NO. 53W0942

SHEET NO.
FX-5

CROSS SECTIONS

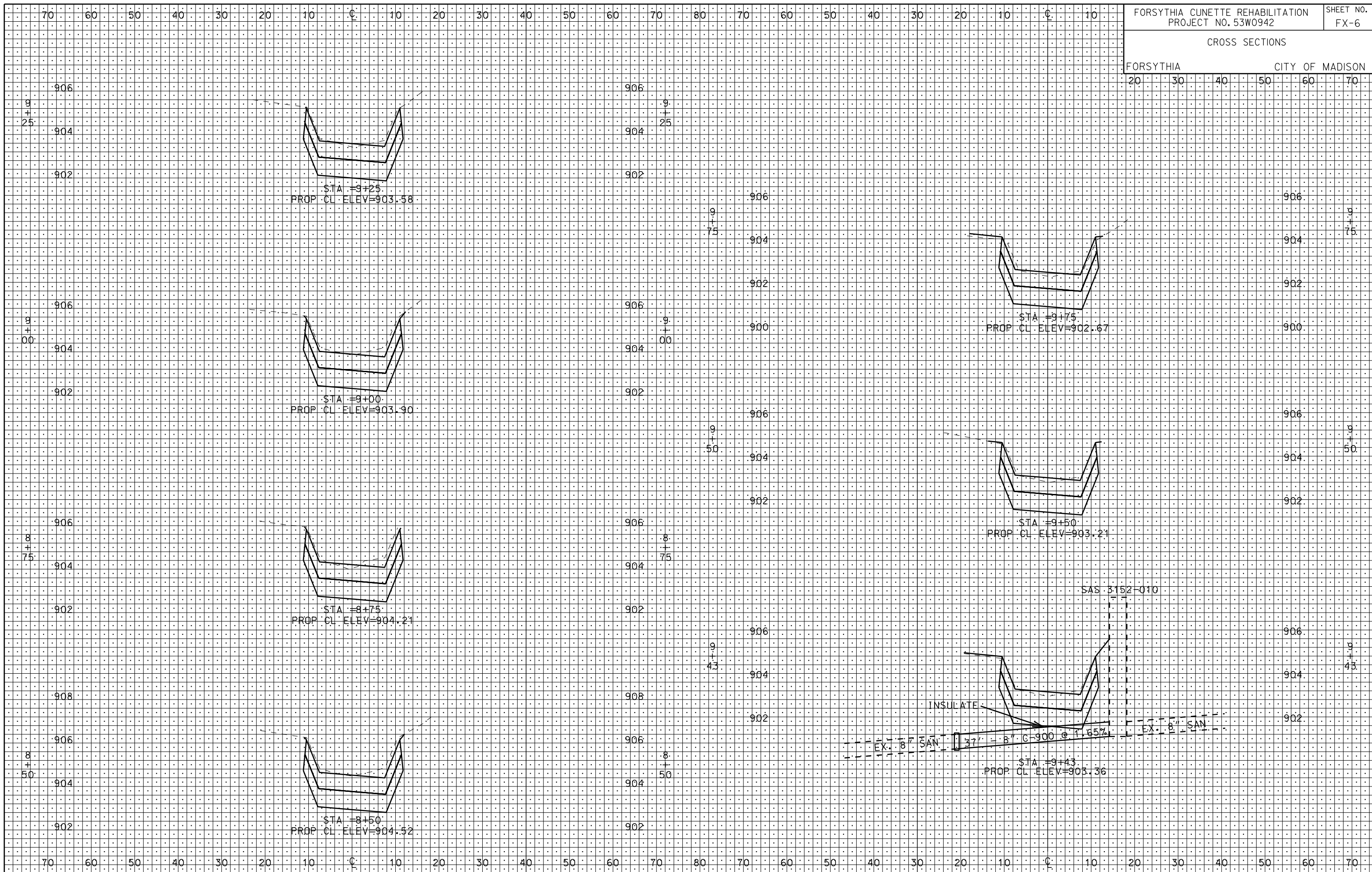
FORSYTHIA CITY OF MADISON

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1"=20'

PLOT NAME: 53W0942

REV. DATE: 5/25/2012



FORSYTHIA CUNETTE REHABILITATION
PROJECT NO. 53W0942

SHEET NO.
FX-6

CROSS SECTIONS

FORSYTHIA CITY OF MADISON

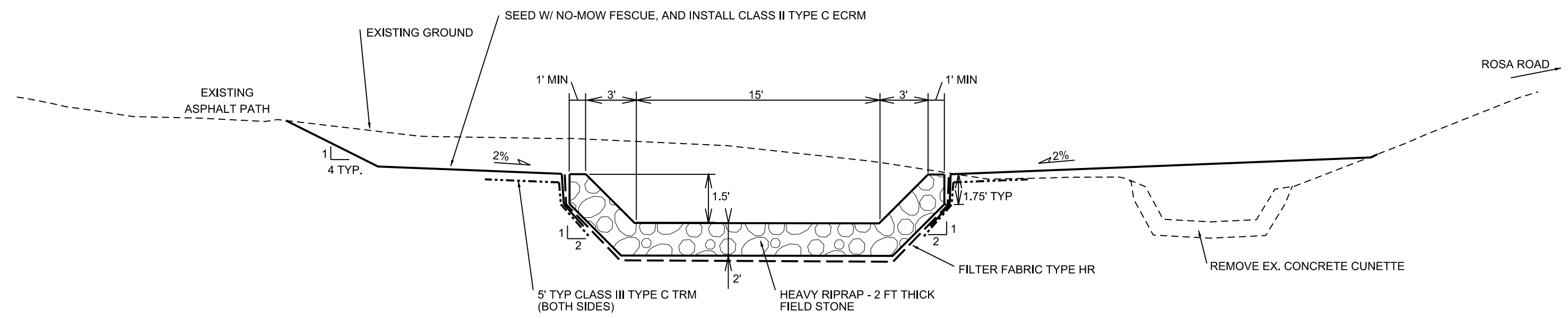


FORSYTHIA CUNETTE REHABILITATION
PROJECT NO. 53W0942

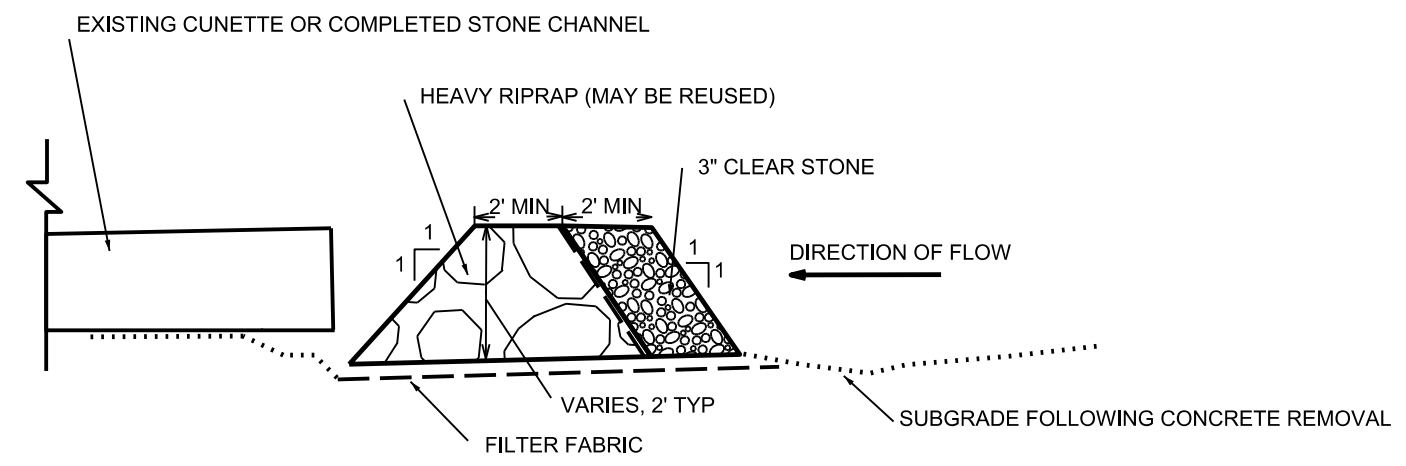
SHEET NO.
FX-7

CROSS SECTIONS

FORSYTHIA CITY OF MADISON



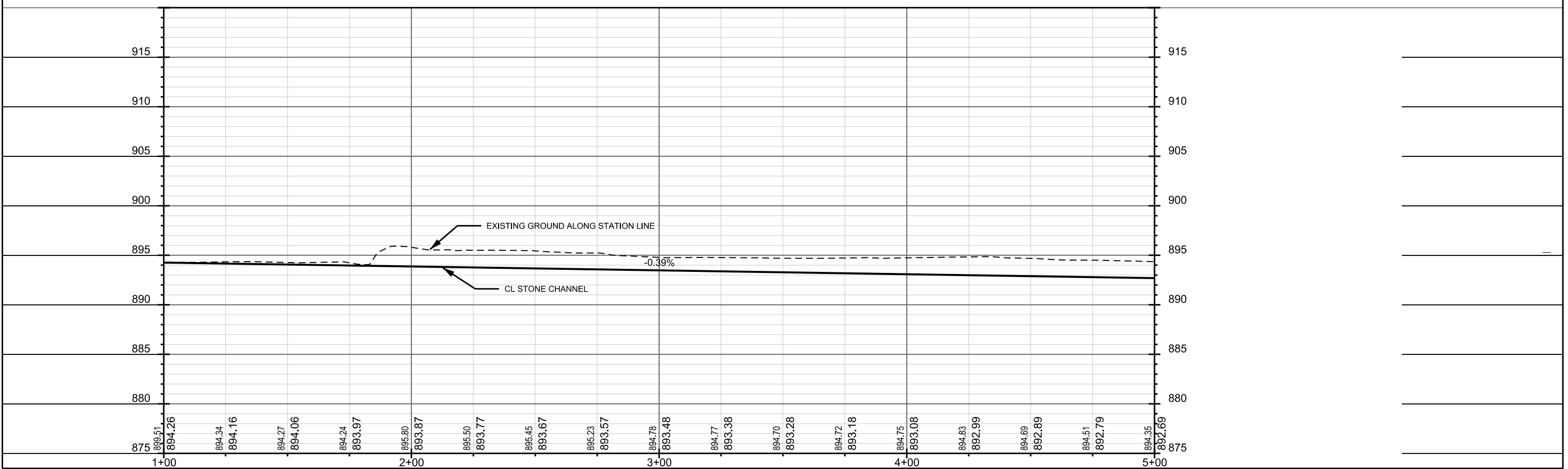
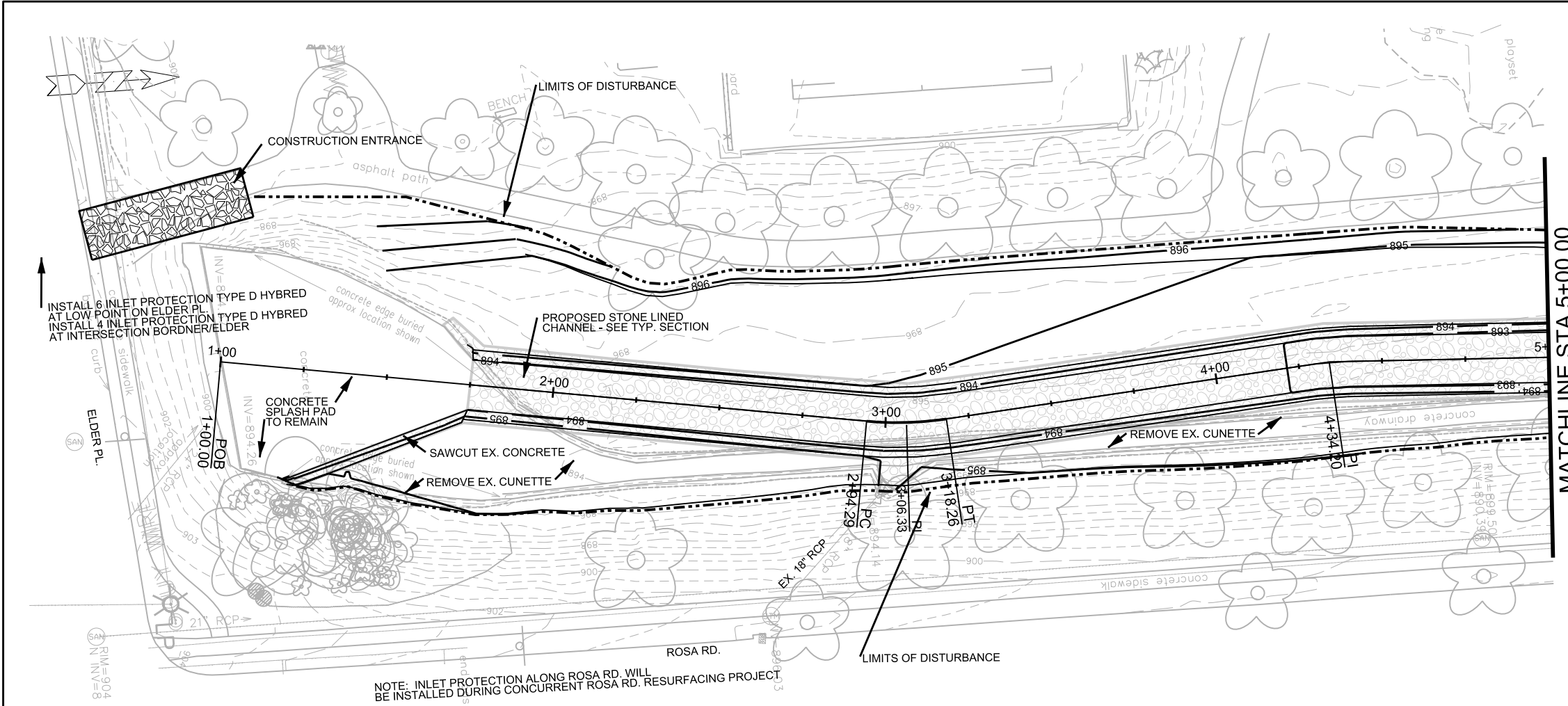
TYPICAL SECTION STONE CHANNEL - NOT TO SCALE



TEMPORARY DITCH CHECK DETAIL - NOT TO SCALE

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

- EROSION CONTROL NOTES:
1. ALL DISTURBED AREAS ALONG STORMWATER CHANNEL TO BE TOPSOILED AND SEEDED WITH NO-MOW FESCUE AND COVERED WITH CLASS II TYPE C EROSION MAT. SEE TYPICAL SECTION.
 2. ANY DISTURBED AREAS WITHIN THE PARK OUTSIDE CONSTRUCTION LIMITS SHOWN SHALL BE TOPSOILED, SEEDED WITH TERRACE MIX AND COVERD WITH CLASS 1 URBAN TYPE A ECRM.
 3. CONSTRUCTION OF THE PROJECT SHALL BE STAGED SUCH THAT THE CUNETTE IS REMOVED AND REPLACED WITH STONE CHANNEL IN SEGMENTS. THE ENTIRE CUNETTE SHALL NOT BE REMOVED AT ONCE. CONTRACTOR SHALL SUBMIT DETAILED PHASING AND STAGING PLAN FOR CITY REVIEW WITH REQUIRED EROSION CONTROL IMPLEMENTATION PLAN. PLAN SHALL DESCRIBE PLANNED REMOVAL AND REPLACEMENT LENGTHS AND SCHEDULES AND IS SUBJECT TO MODIFICATION BY CITY.
 4. INSTALL CONSTRUCTION ENTRANCE AND ACCESS SITE VIA ELDER PL. CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NECESSARY AS DIRECTED BY CONSTRUCTION ENGINEER TO KEEP TRACKING TO A MINIMUM.
 5. POLYMER SHALL BE APPLIED AT THE DISCRETION OF THE CONSTRUCTION ENGINEER.
 6. CONTRACTOR SHALL BE DILLIGENT IN REVIEWING WEATHER FORECASTS TO MANAGE EROSION CONTROL AND CONSTRUCTION SCHEDULE, AND TO PLAN FOR STORMWATER CONTROL DURING THE PROJECT.
 7. CONTRACTOR SHALL INSTALL TEMPORARY CHECK DAMS DOWNSTREAM OF THE AREA BEING WORKED ON. SEE DETAIL SHEET FOR CHECK DAM DETAIL.

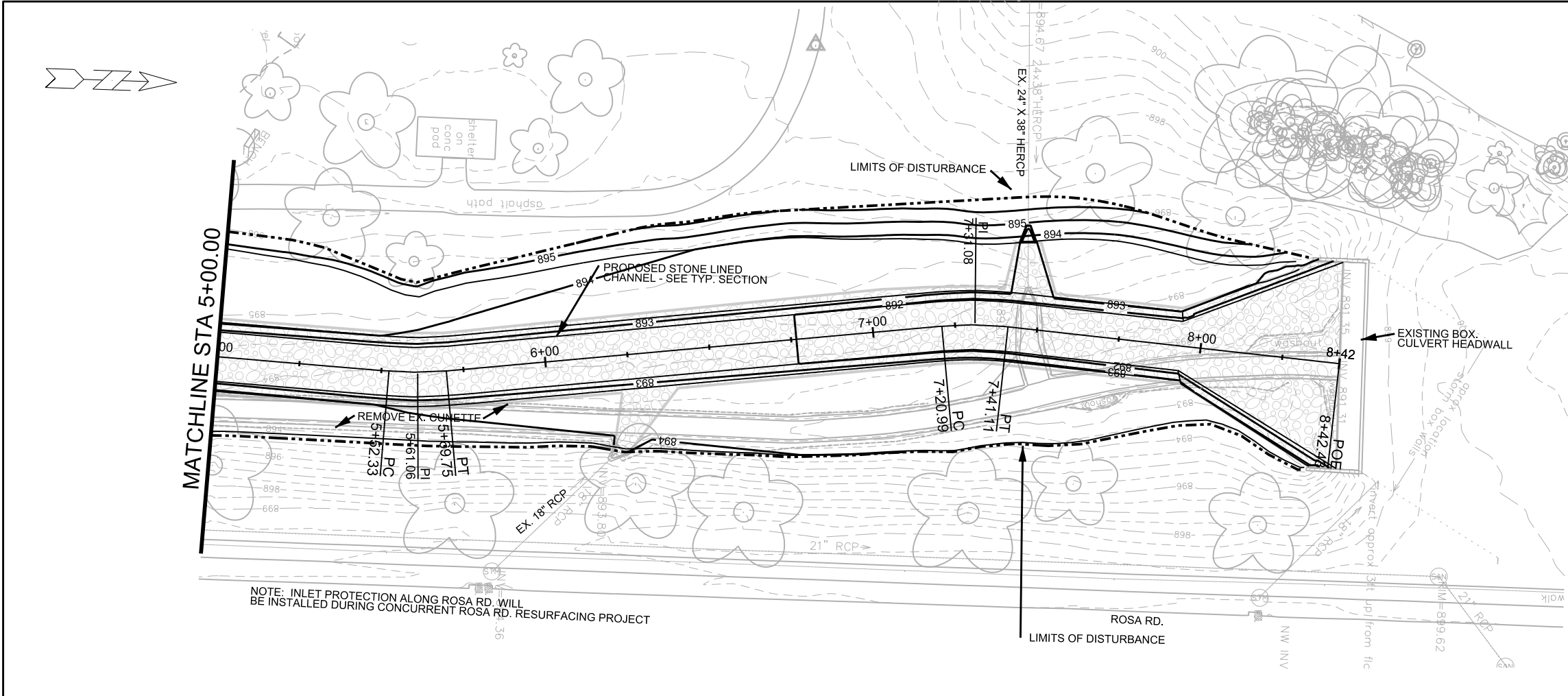


PLOT SCALE: _____

PLOT NAME: _____

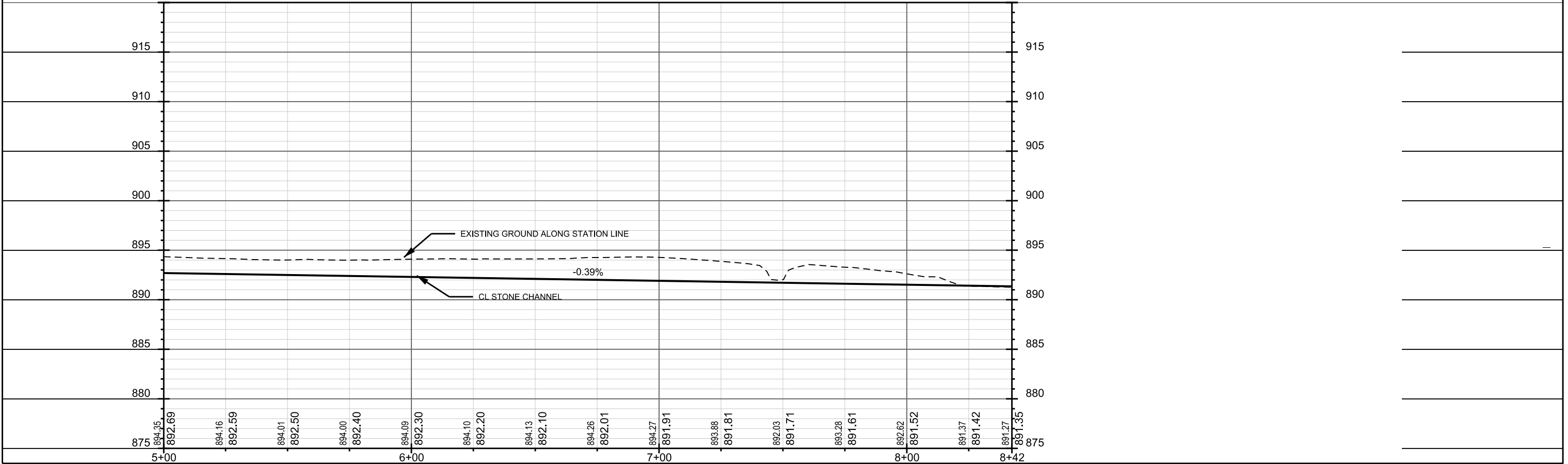
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

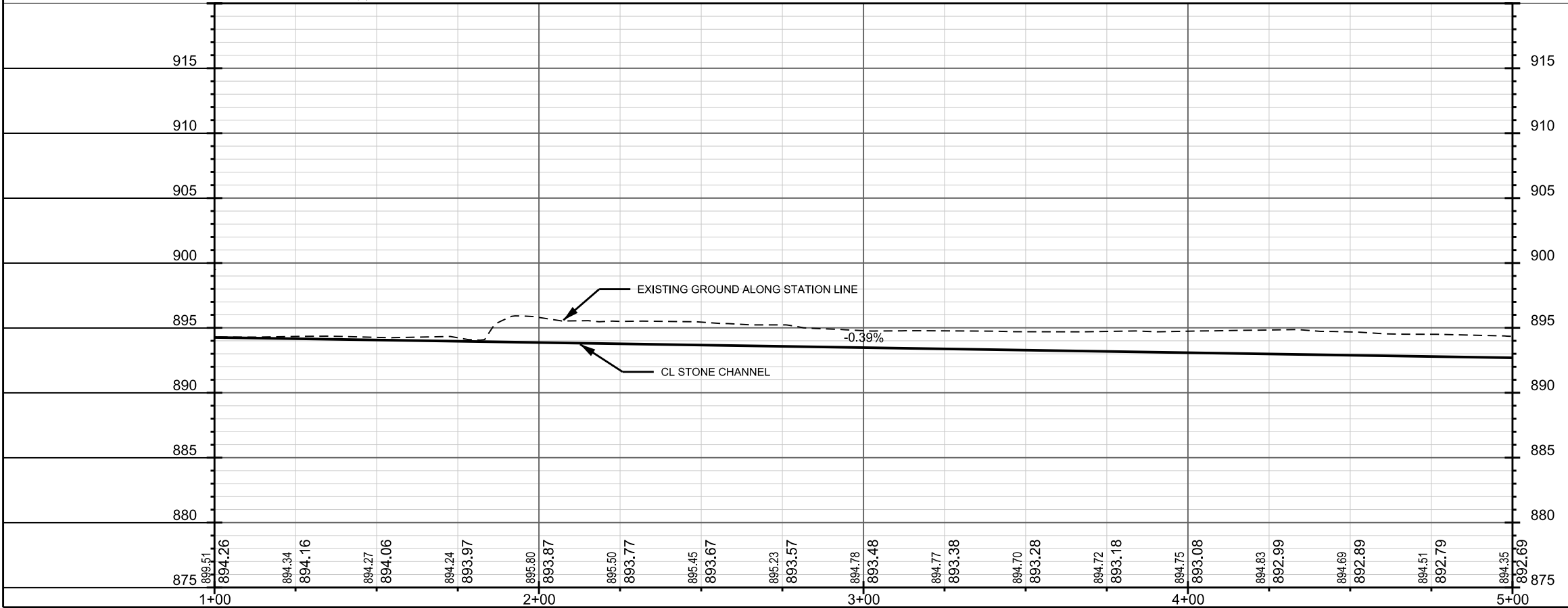
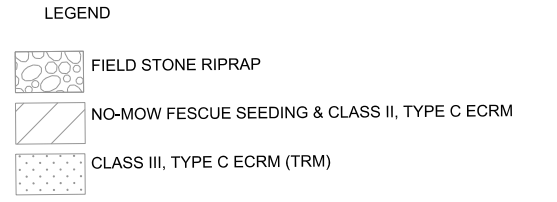
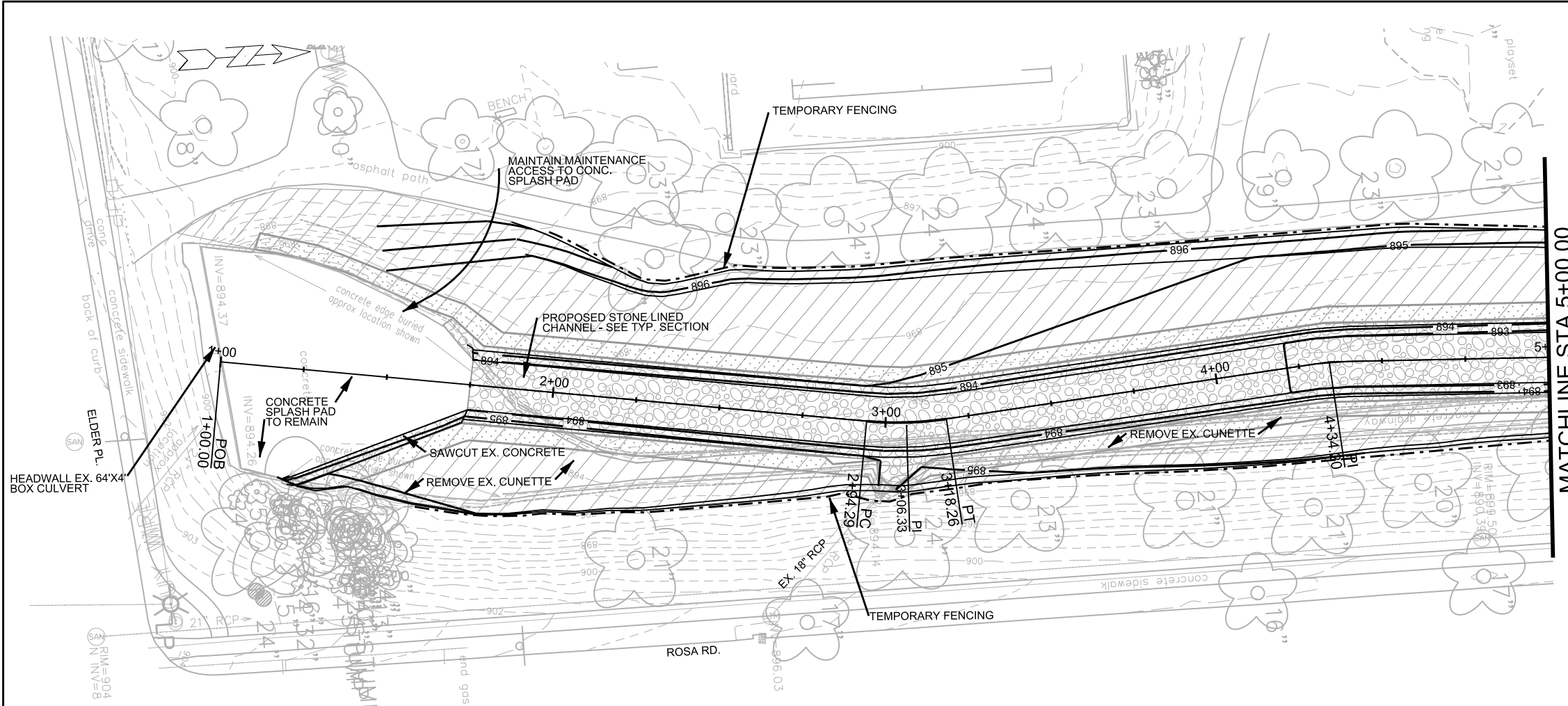


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NOTE: INLET PROTECTION ALONG ROSA RD. WILL BE INSTALLED DURING CONCURRENT ROSA RD. RESURFACING PROJECT



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

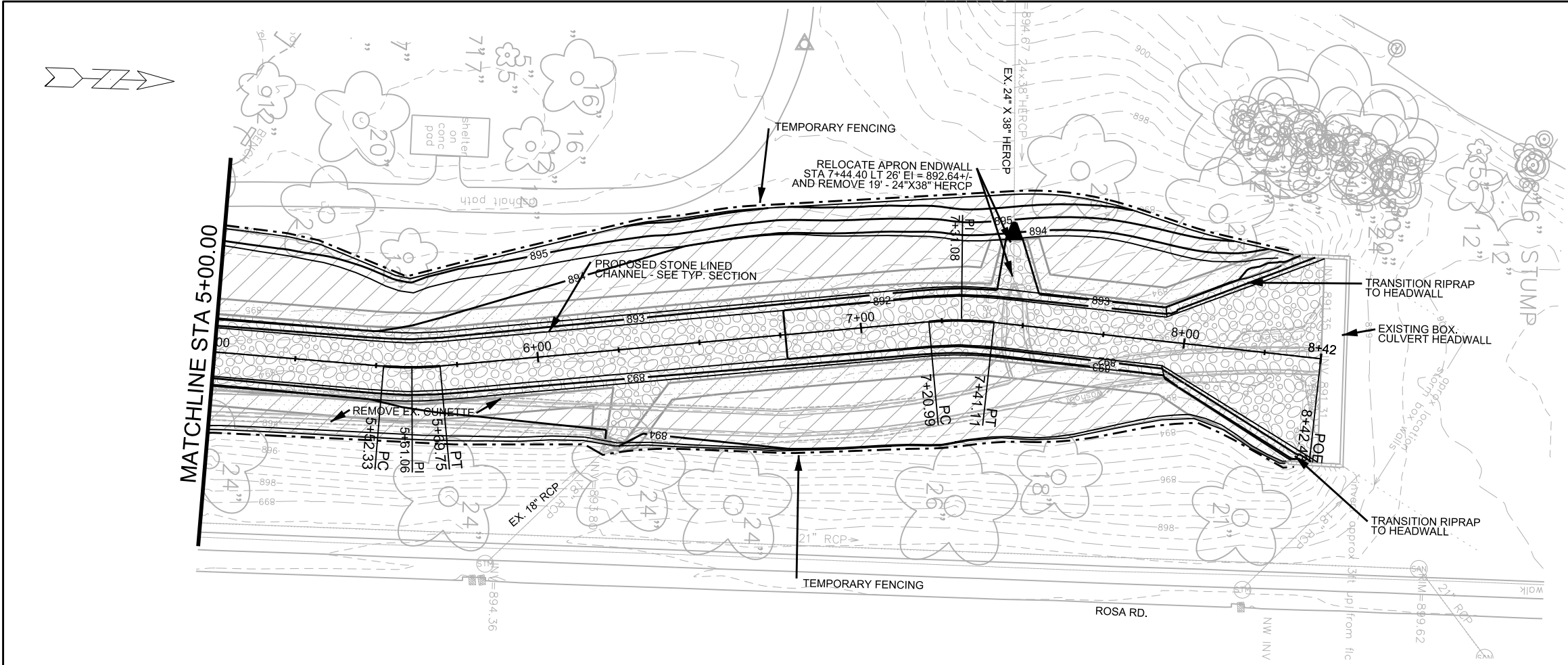


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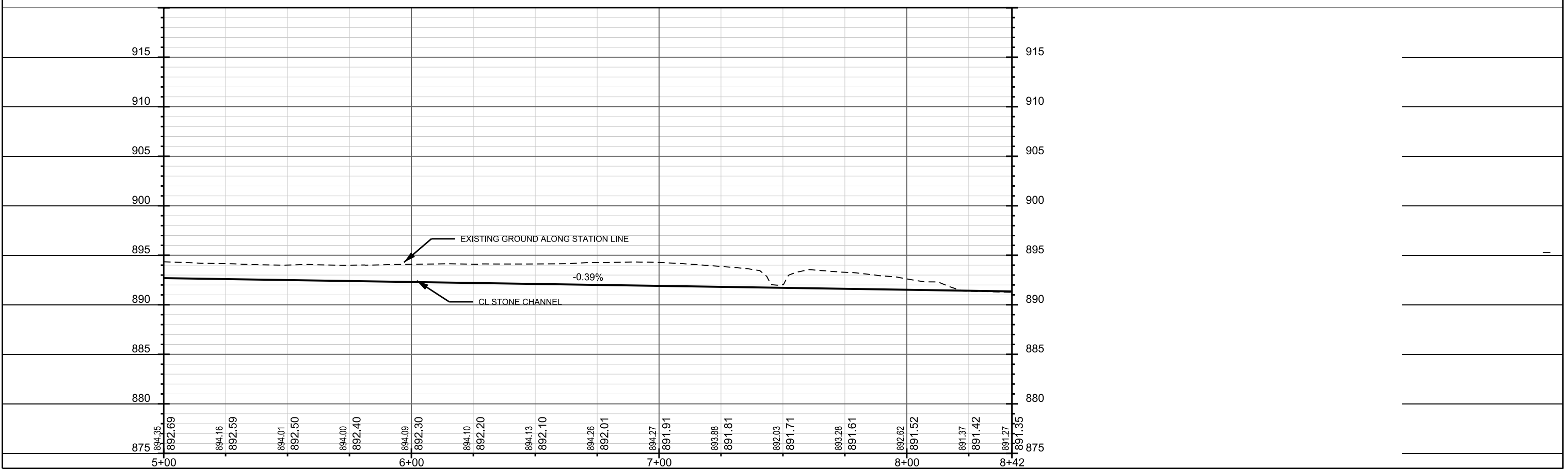
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- FIELD STONE RIPRAP
- NO-MOW FESCUE SEEDING & CLASS II, TYPE C ECRM
- CLASS III, TYPE C ECRM (TRM)



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

BORDNER PARK

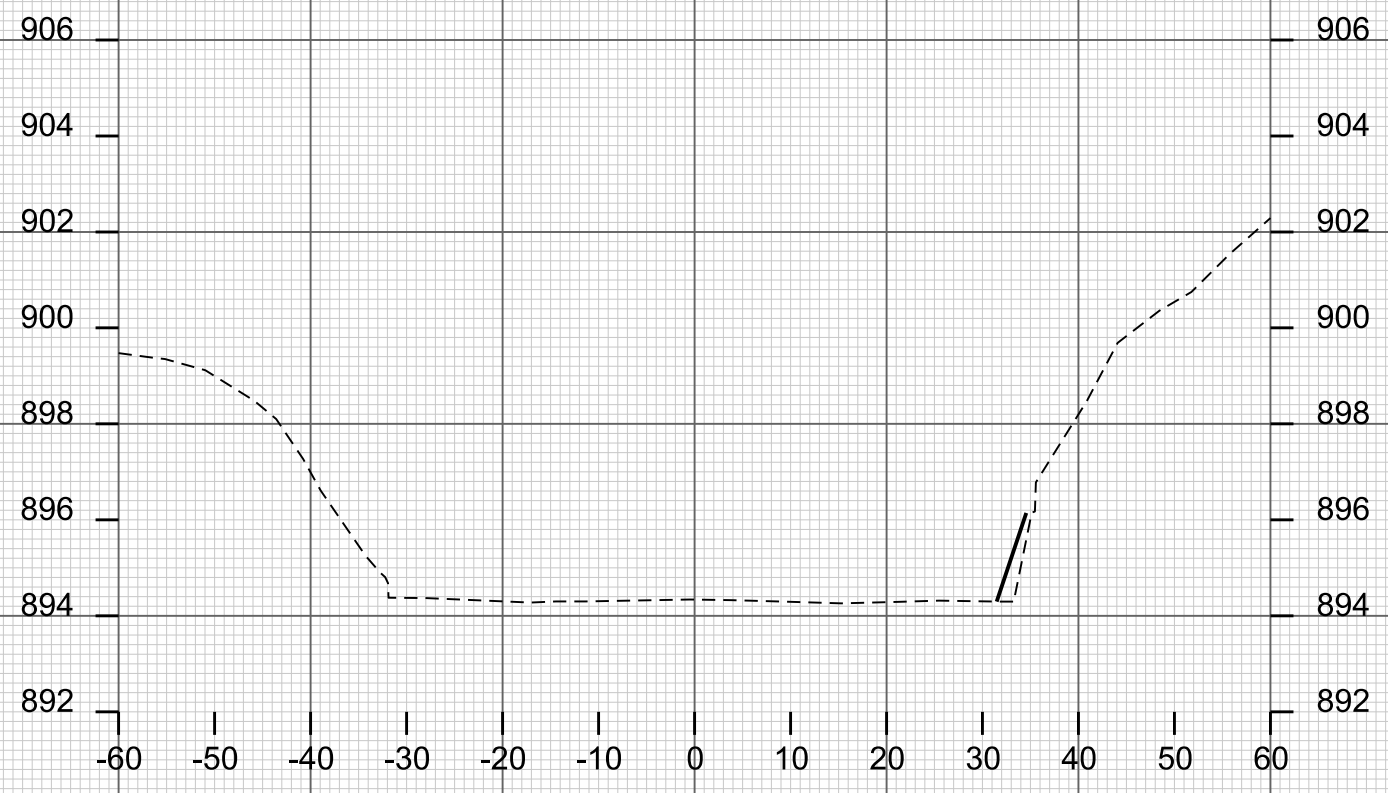
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

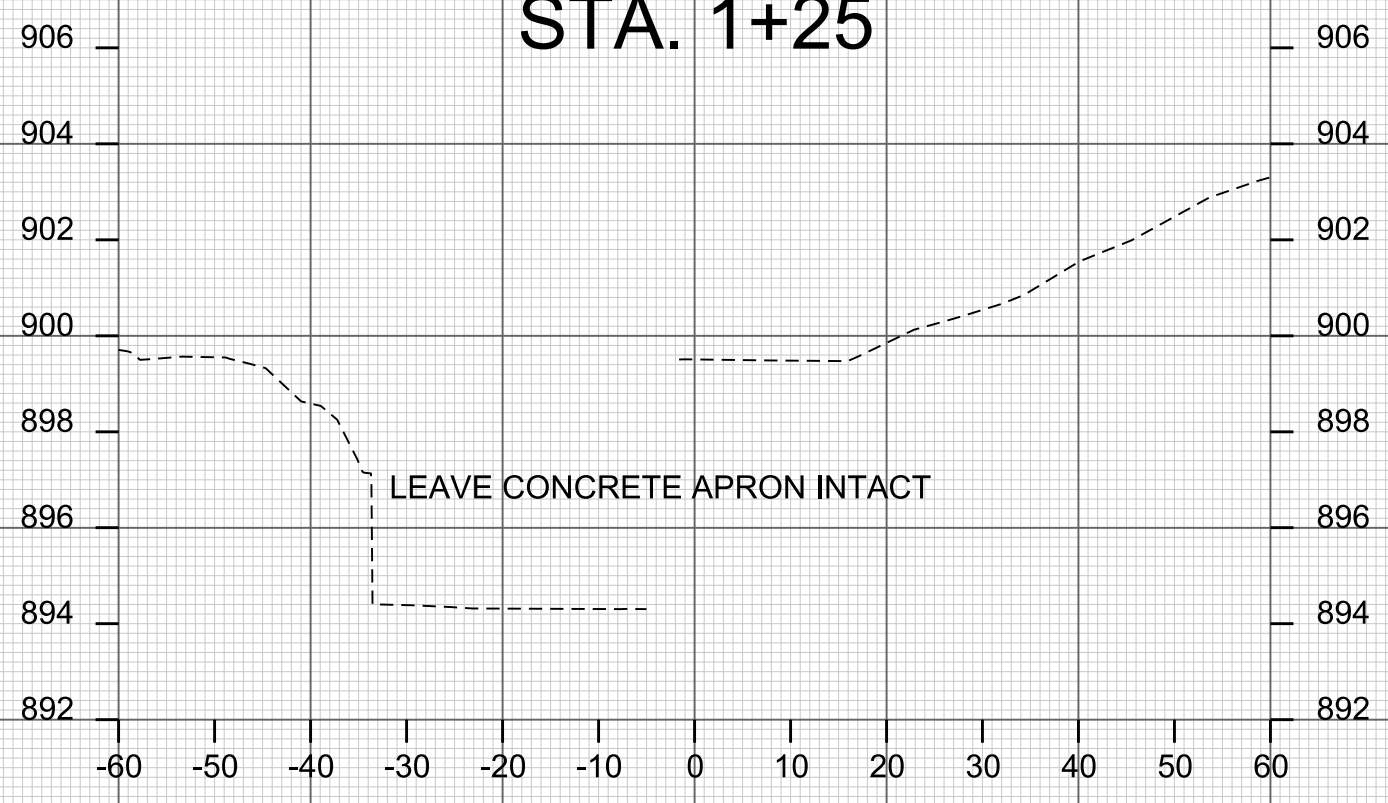
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 1+25



STA. 1+75
PROP. CL ELEV = 893.97



LEAVE CONCRETE APRON INTACT

STA. 1+00



STA. 1+50



CROSS SECTIONS

BORDNER PARK

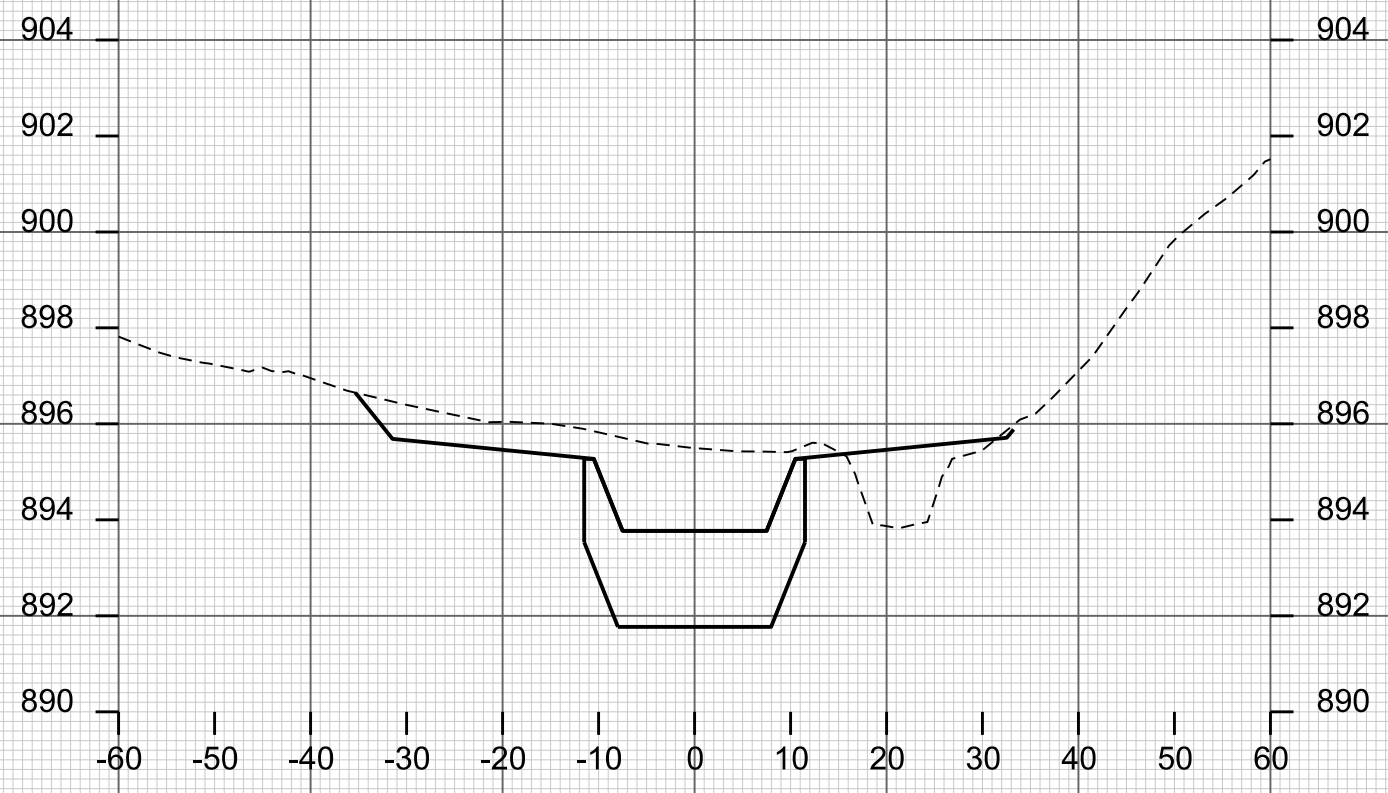
CITY OF MADISON

PLOT SCALE: _____

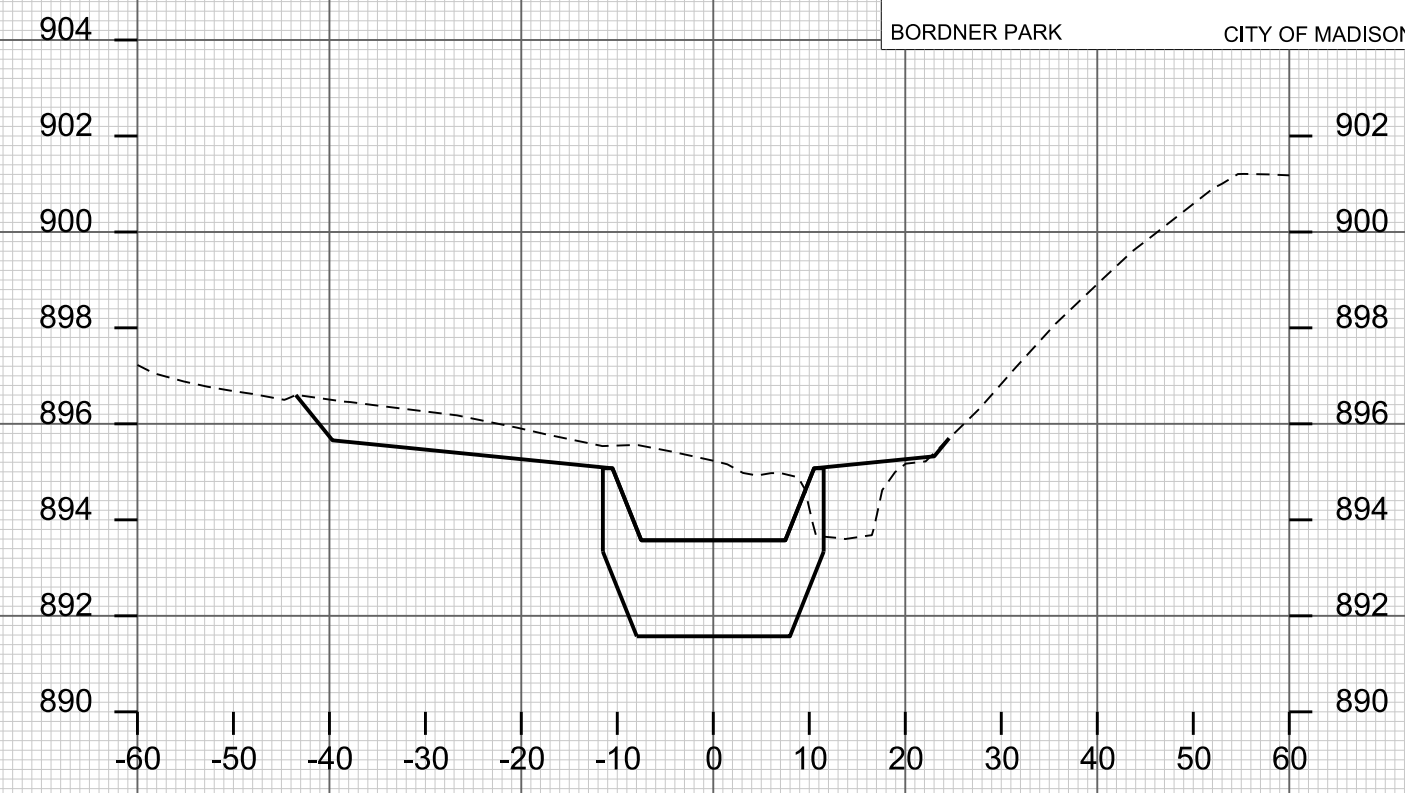
PLOT NAME: _____

REV. DATE: _____

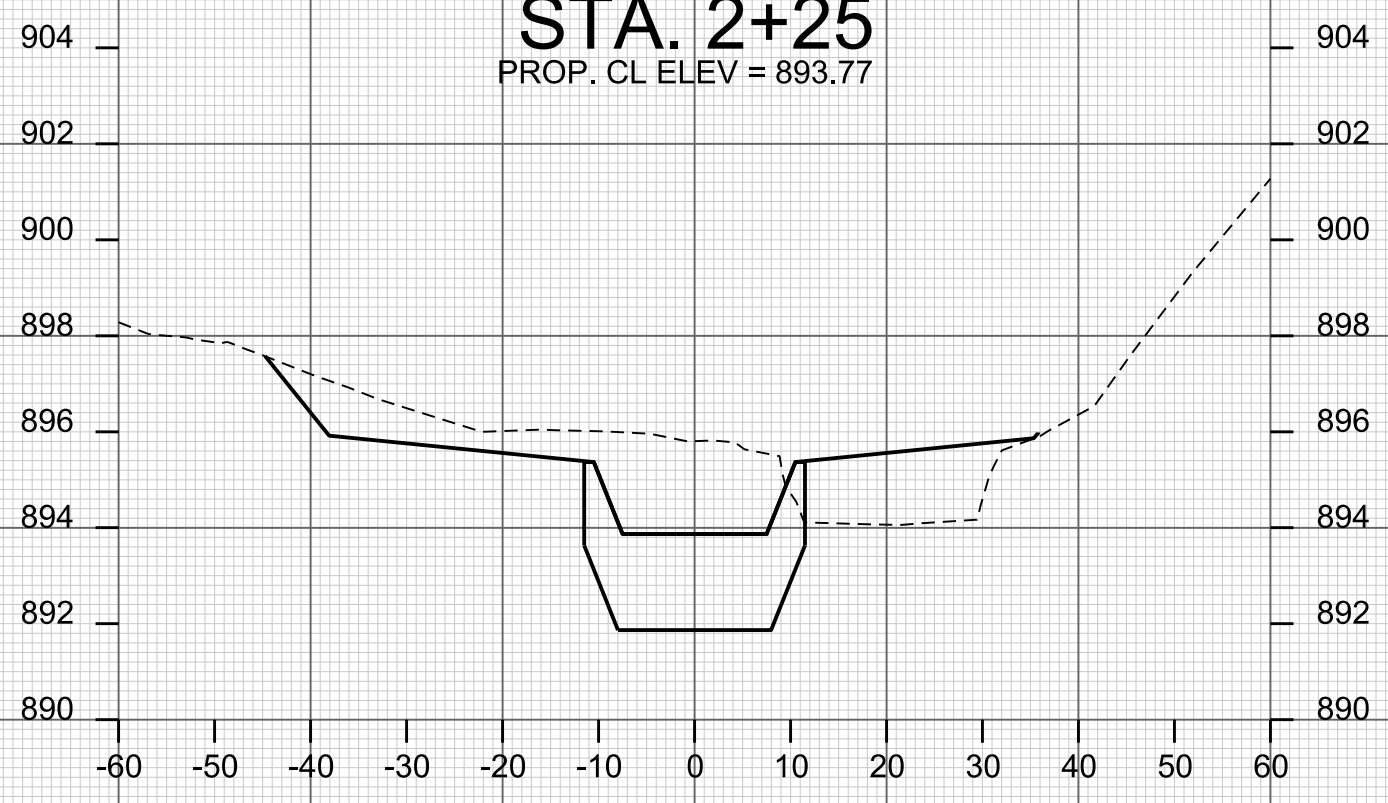
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



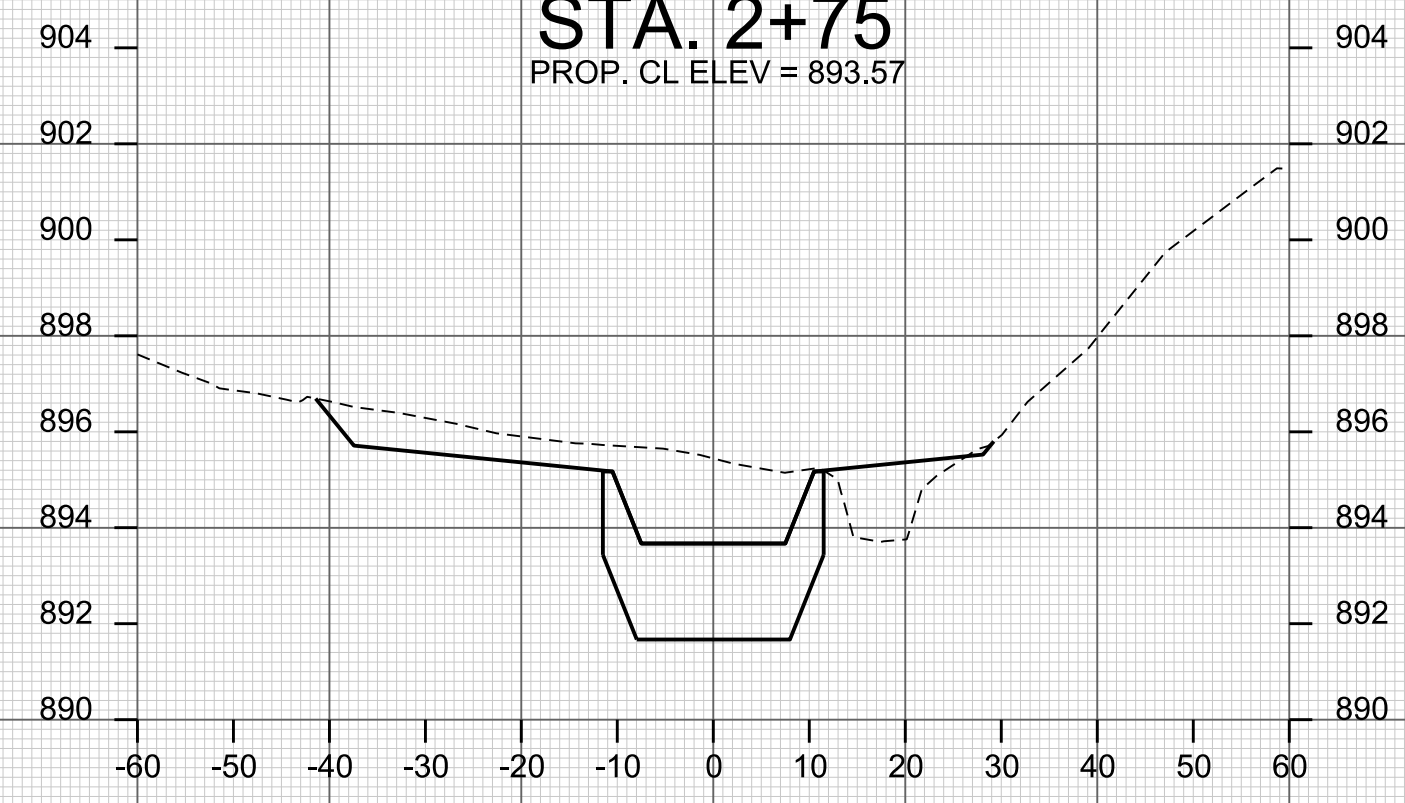
STA. 2+25
PROP. CL ELEV = 893.77



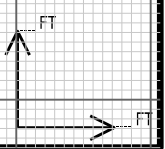
STA. 2+75
PROP. CL ELEV = 893.57



STA. 2+00
PROP. CL ELEV = 893.87



STA. 2+50
PROP. CL ELEV = 893.67



CROSS SECTIONS

BORDNER PARK

CITY OF MADISON

PLOT SCALE: _____

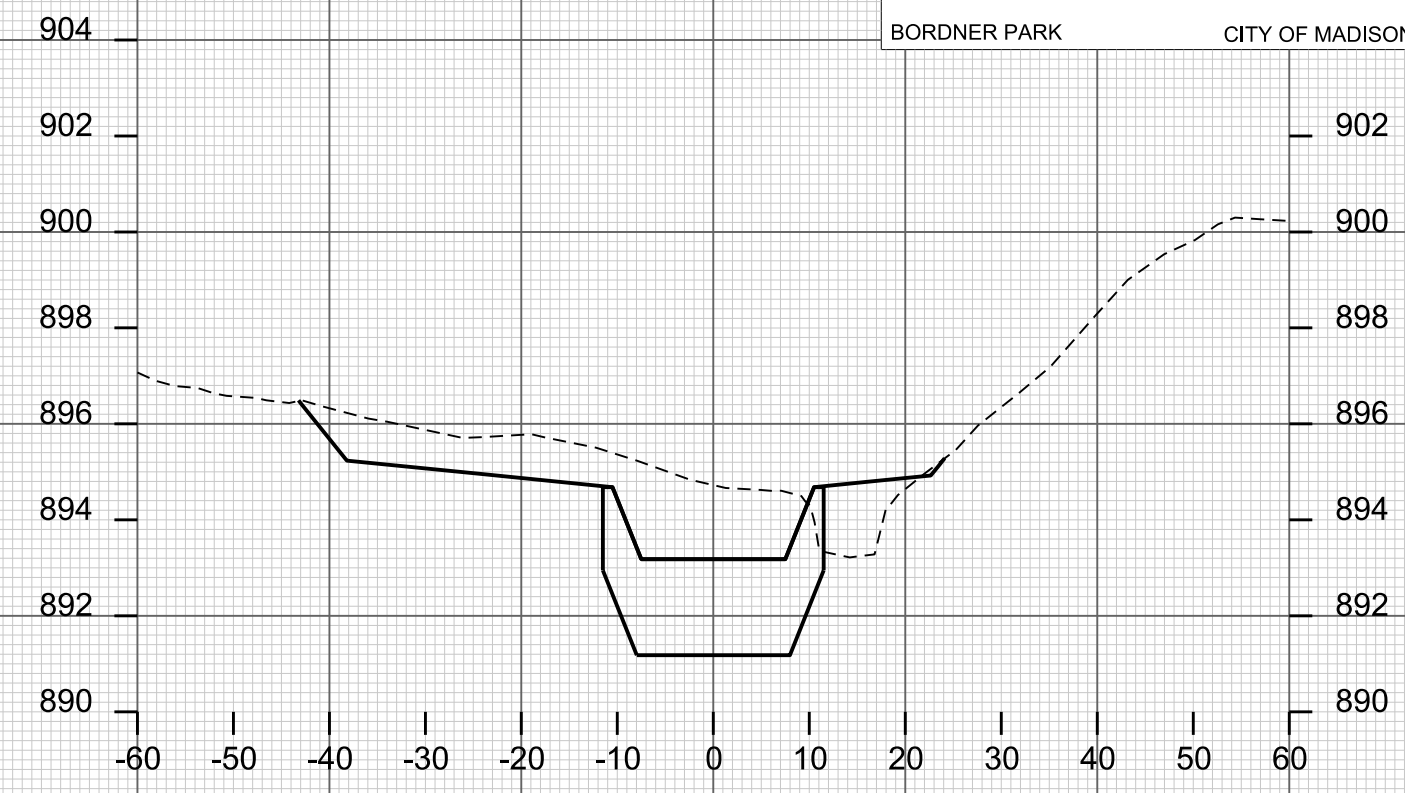
PLOT NAME: _____

REV. DATE: _____

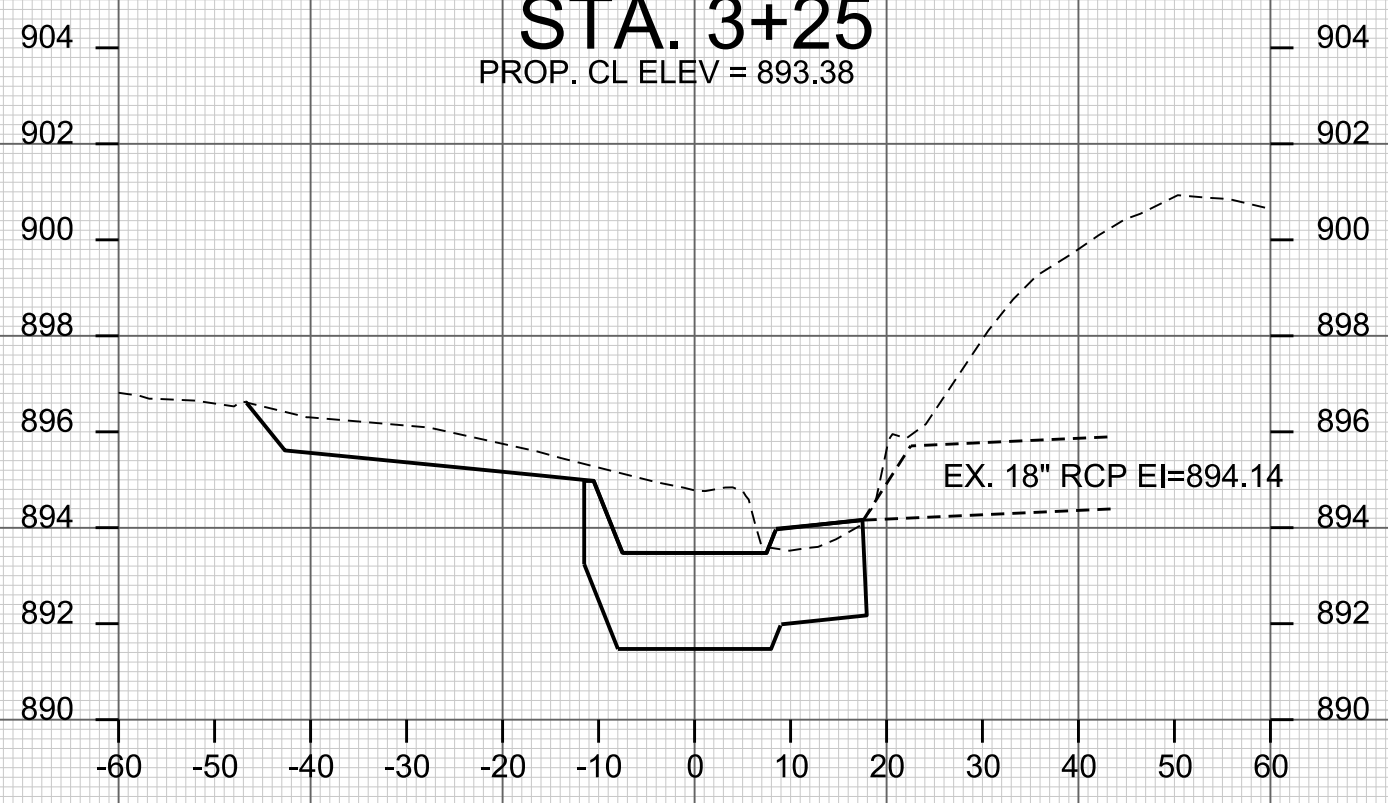
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 3+25
PROP. CL ELEV = 893.38

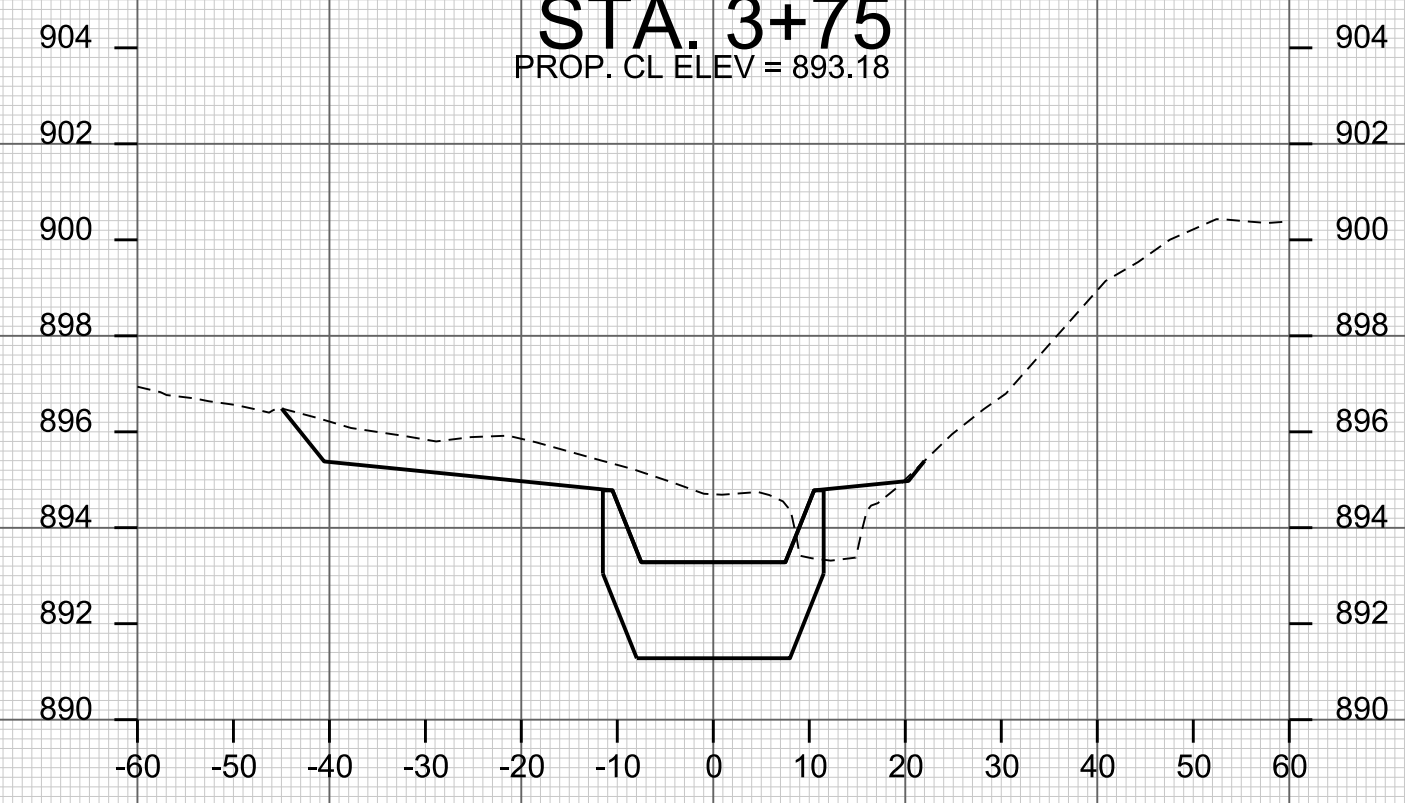


STA. 3+75
PROP. CL ELEV = 893.18

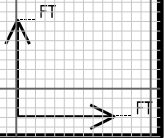


STA. 3+00
PROP. CL ELEV = 893.48

EX. 18" RCP EI=894.14



STA. 3+50
PROP. CL ELEV = 893.28



CROSS SECTIONS

BORDNER PARK

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

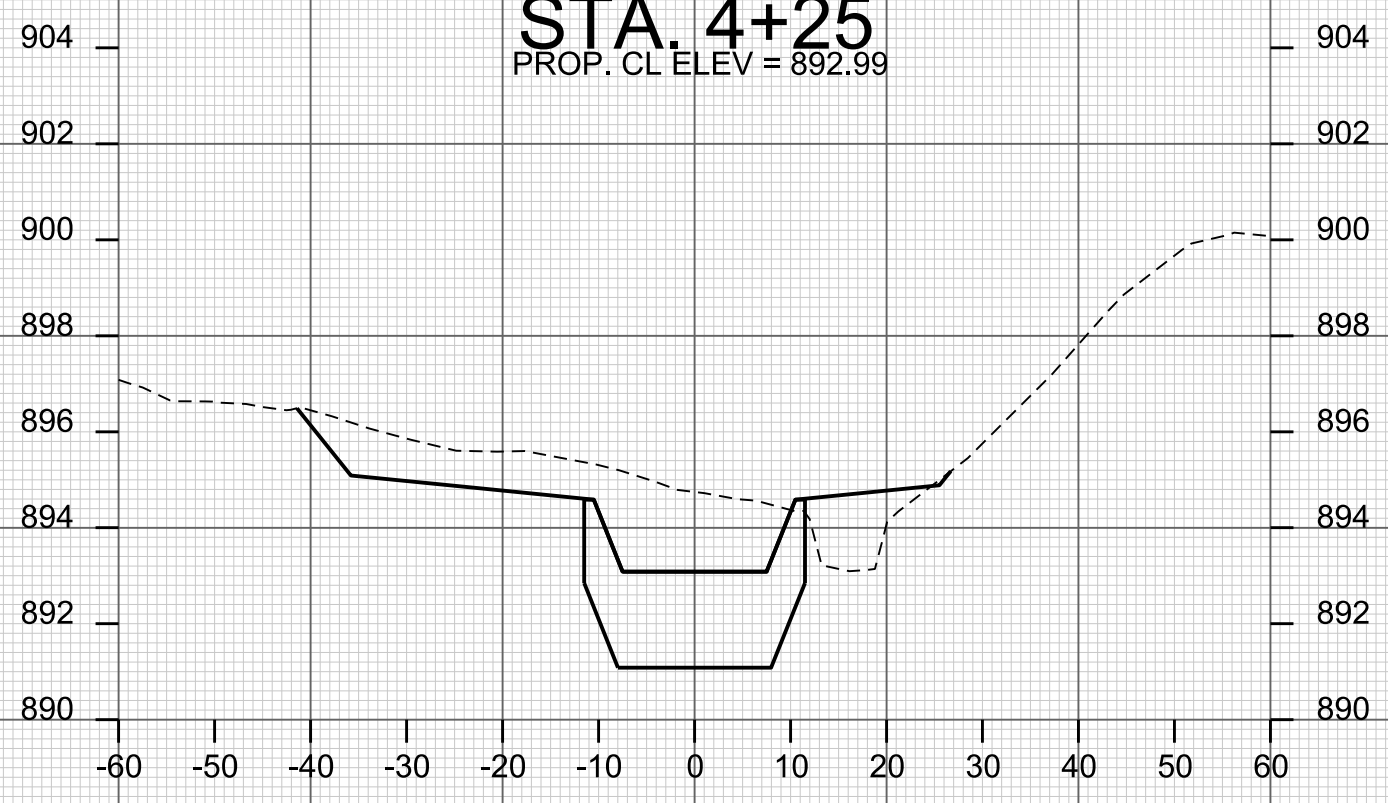
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



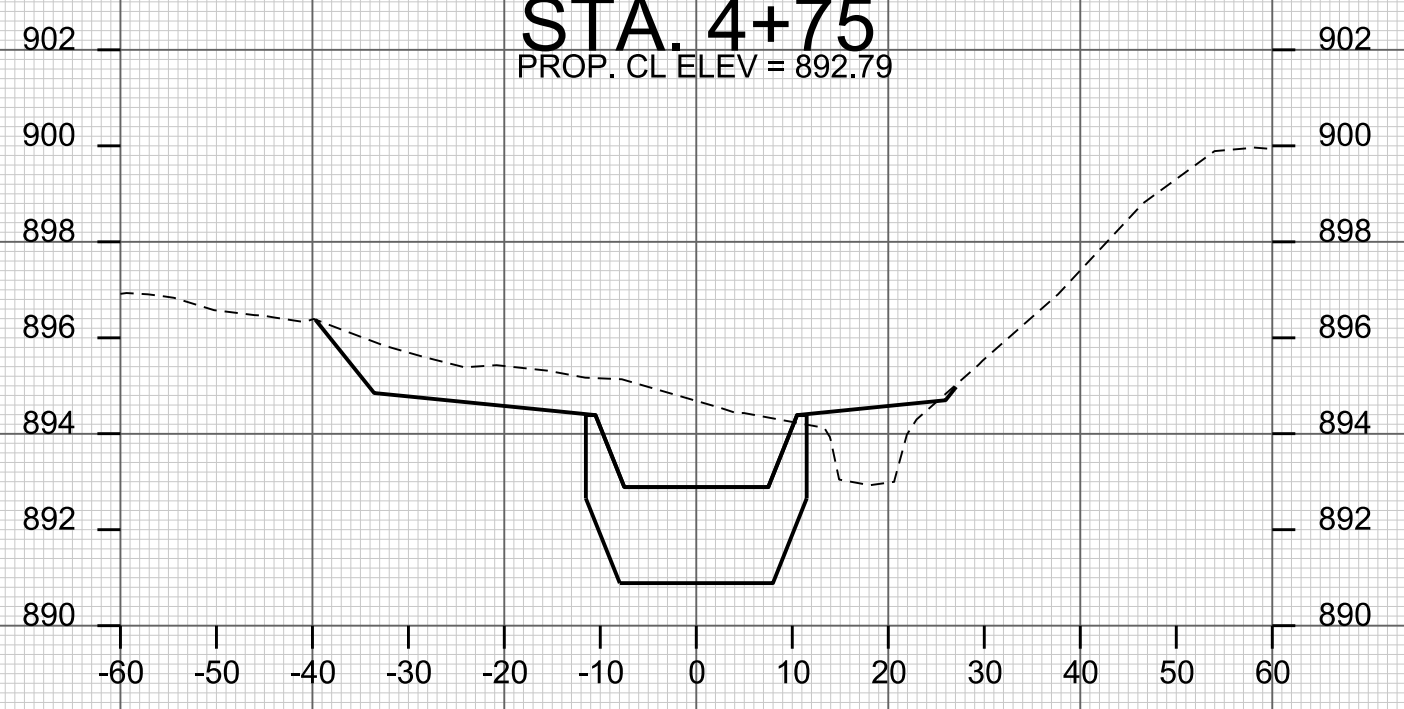
STA. 4+25
PROP. CL ELEV = 892.99



STA. 4+75
PROP. CL ELEV = 892.79



STA. 4+00
PROP. CL ELEV = 893.08



STA. 4+50
PROP. CL ELEV = 892.89



CROSS SECTIONS

BORDNER PARK

CITY OF MADISON

PLOT SCALE: _____
PLOT NAME: _____

REV. DATE: _____

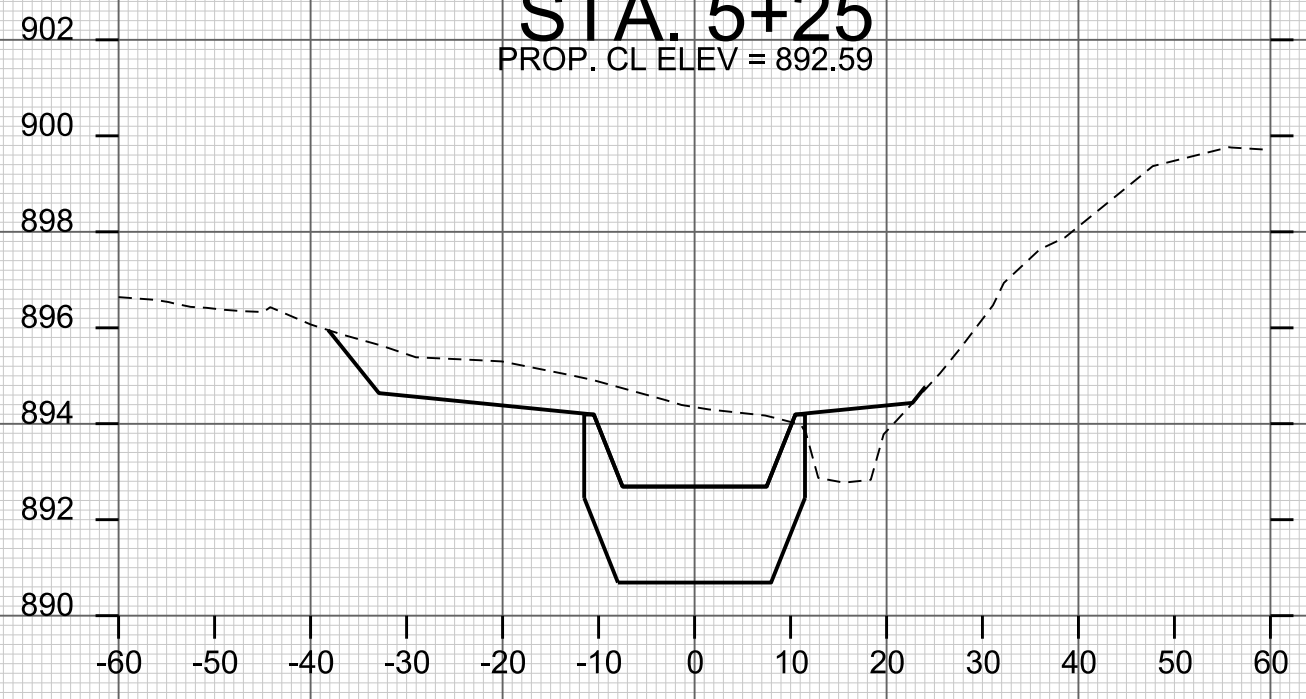
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 5+25
PROP. CL ELEV = 892.59



STA. 5+75
PROP. CL ELEV = 892.40



STA. 5+00
PROP. CL ELEV = 892.69



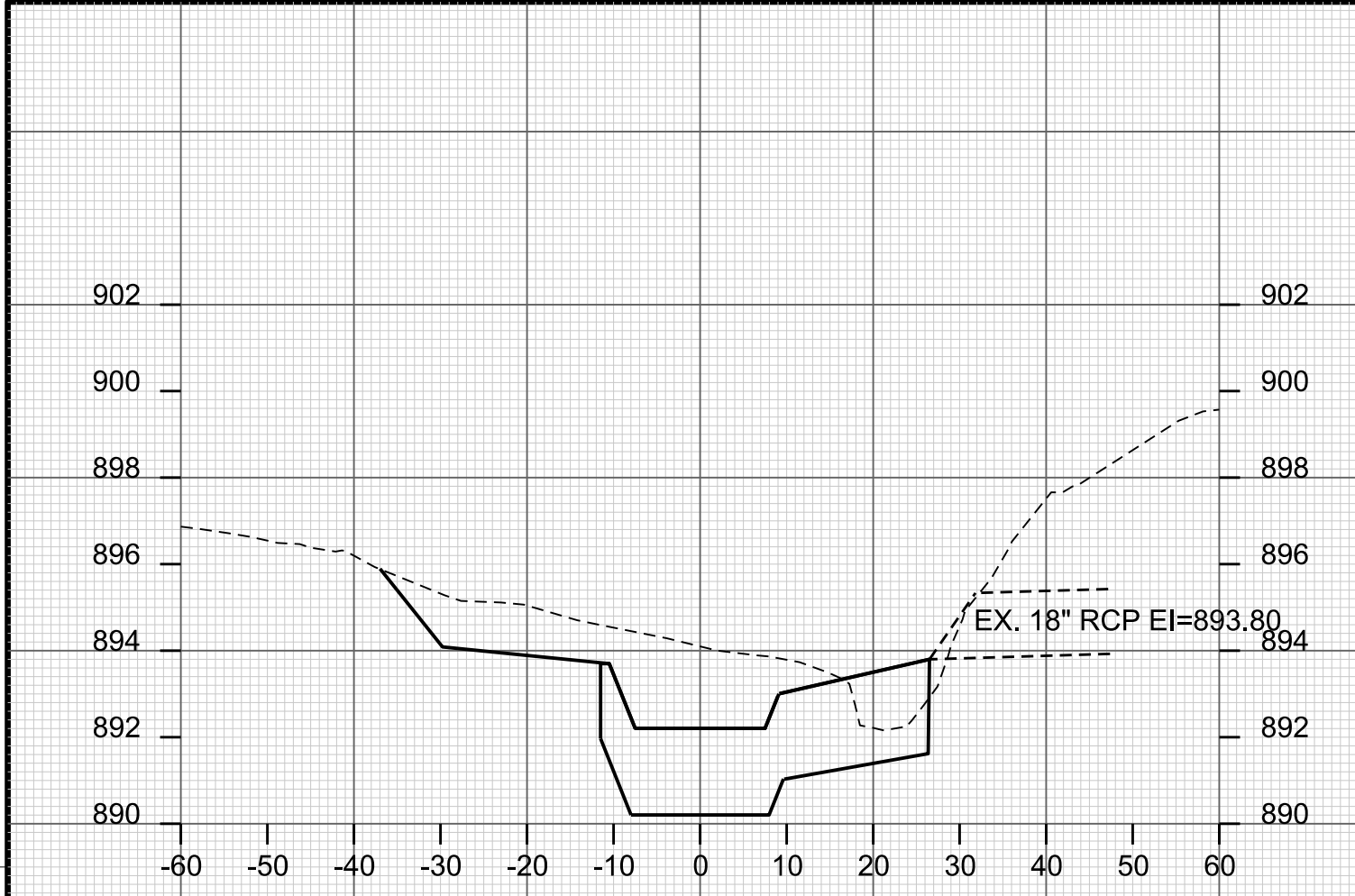
STA. 5+50
PROP. CL ELEV = 892.50



PLOT SCALE: _____
PLOT NAME: _____

REV. DATE: _____

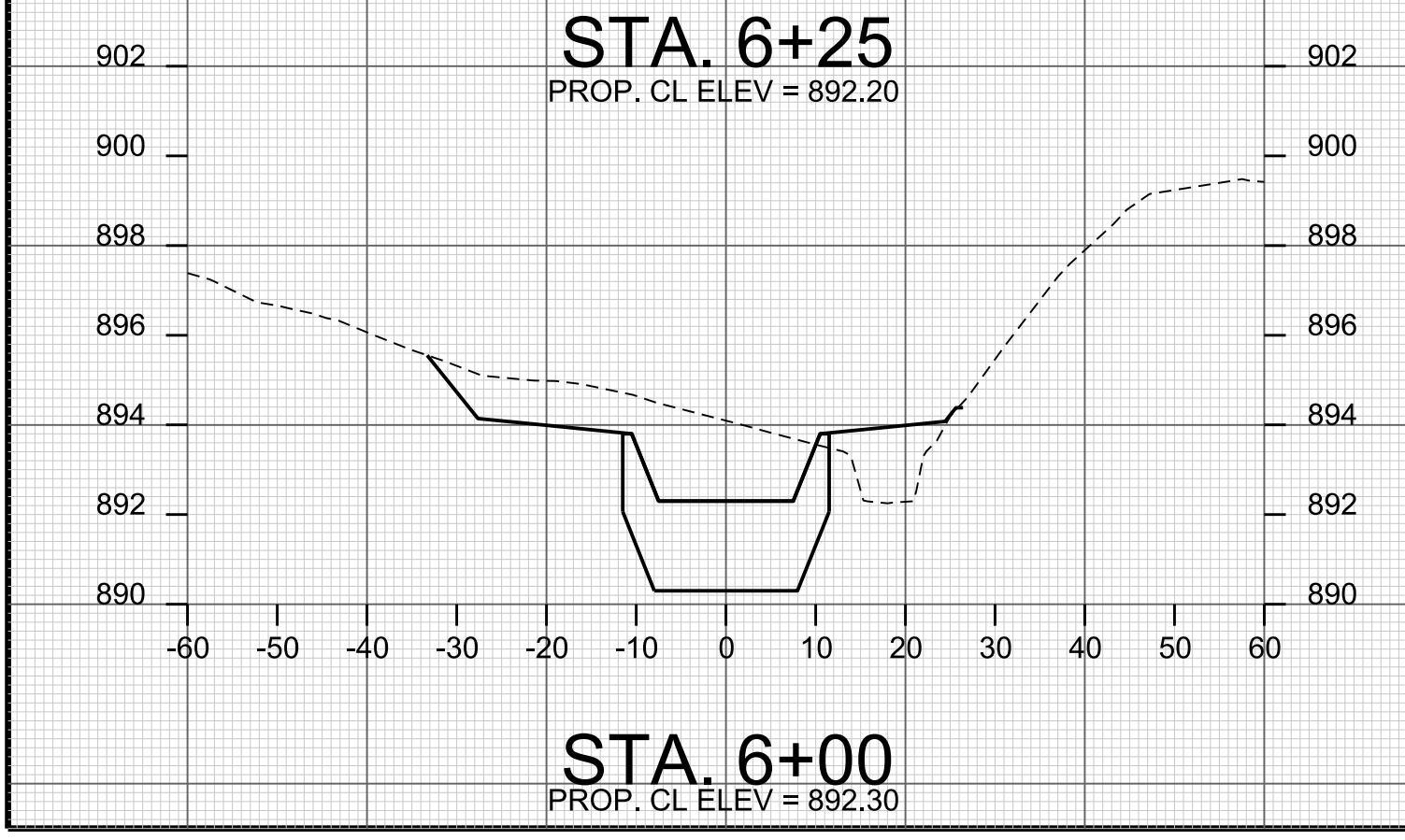
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



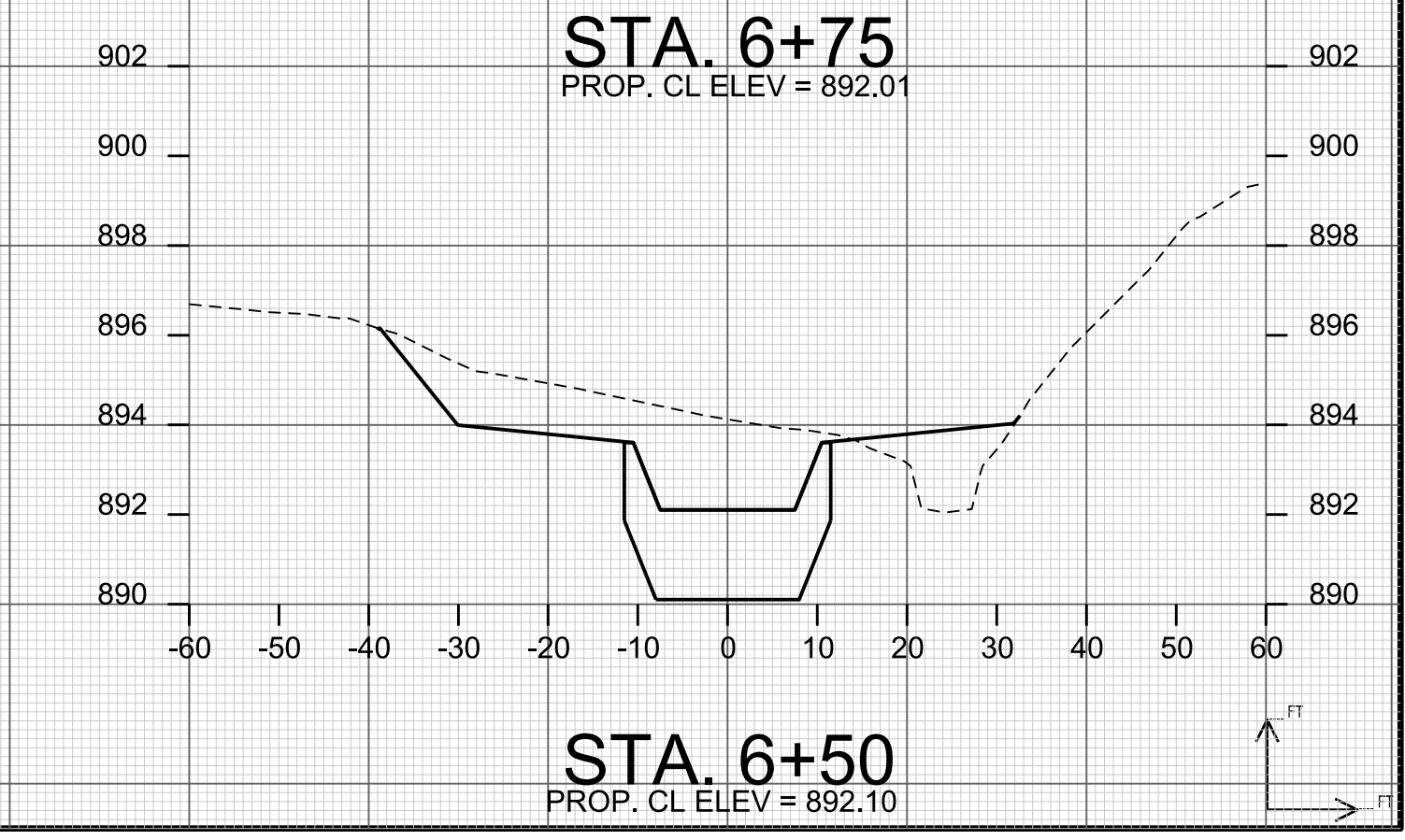
STA. 6+25
PROP. CL ELEV = 892.20



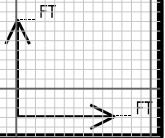
STA. 6+75
PROP. CL ELEV = 892.01



STA. 6+00
PROP. CL ELEV = 892.30



STA. 6+50
PROP. CL ELEV = 892.10



CROSS SECTIONS

BORDNER PARK

CITY OF MADISON

PLOT SCALE: _____

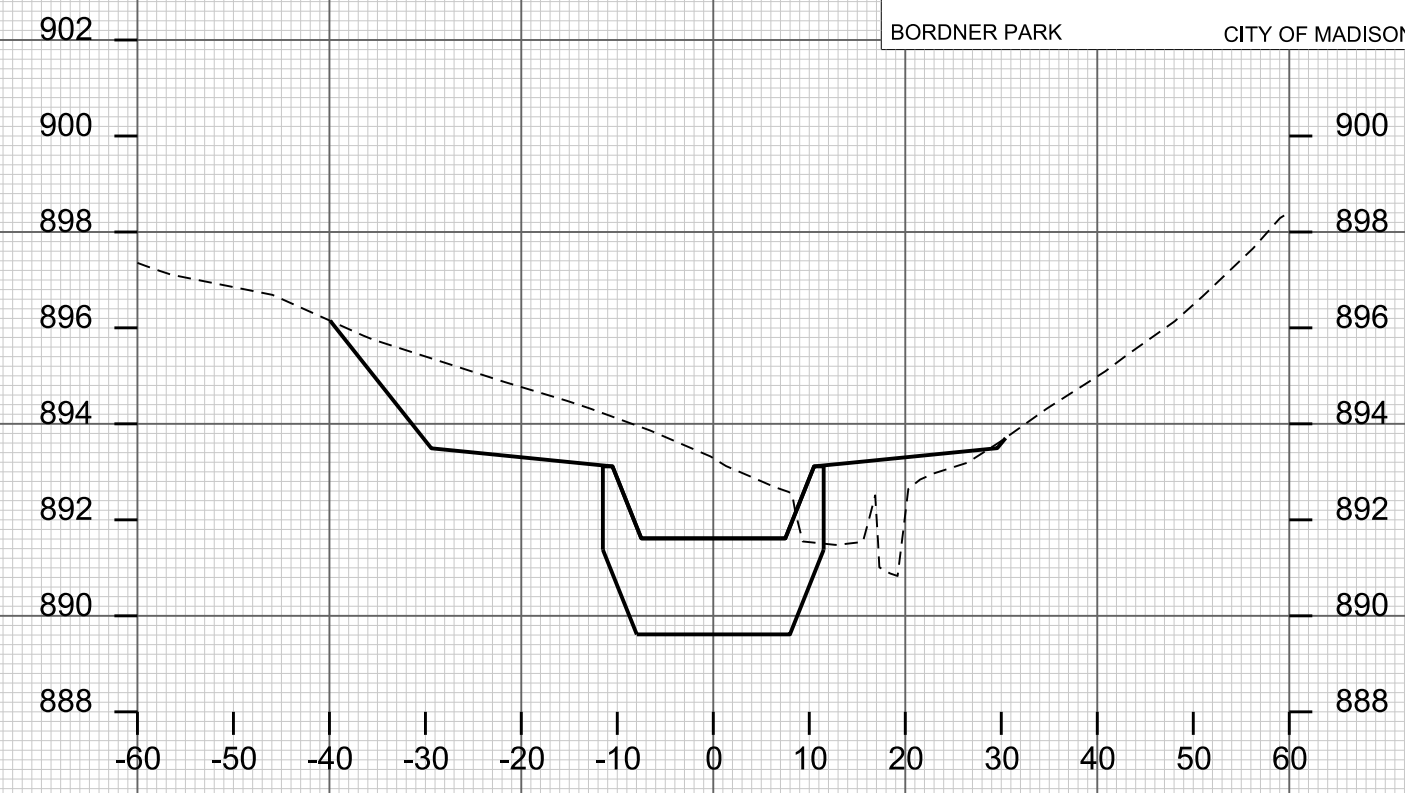
PLOT NAME: _____

REV. DATE: _____

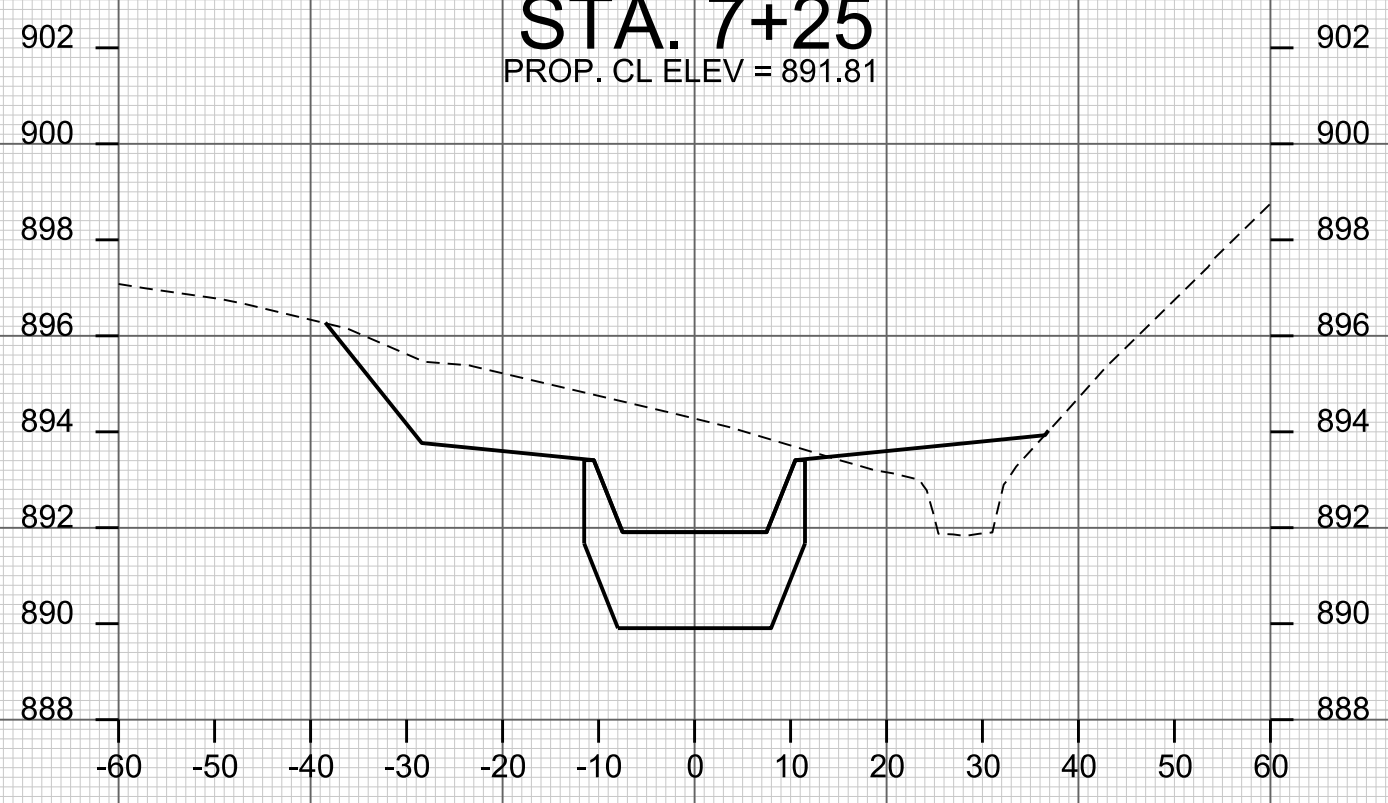
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



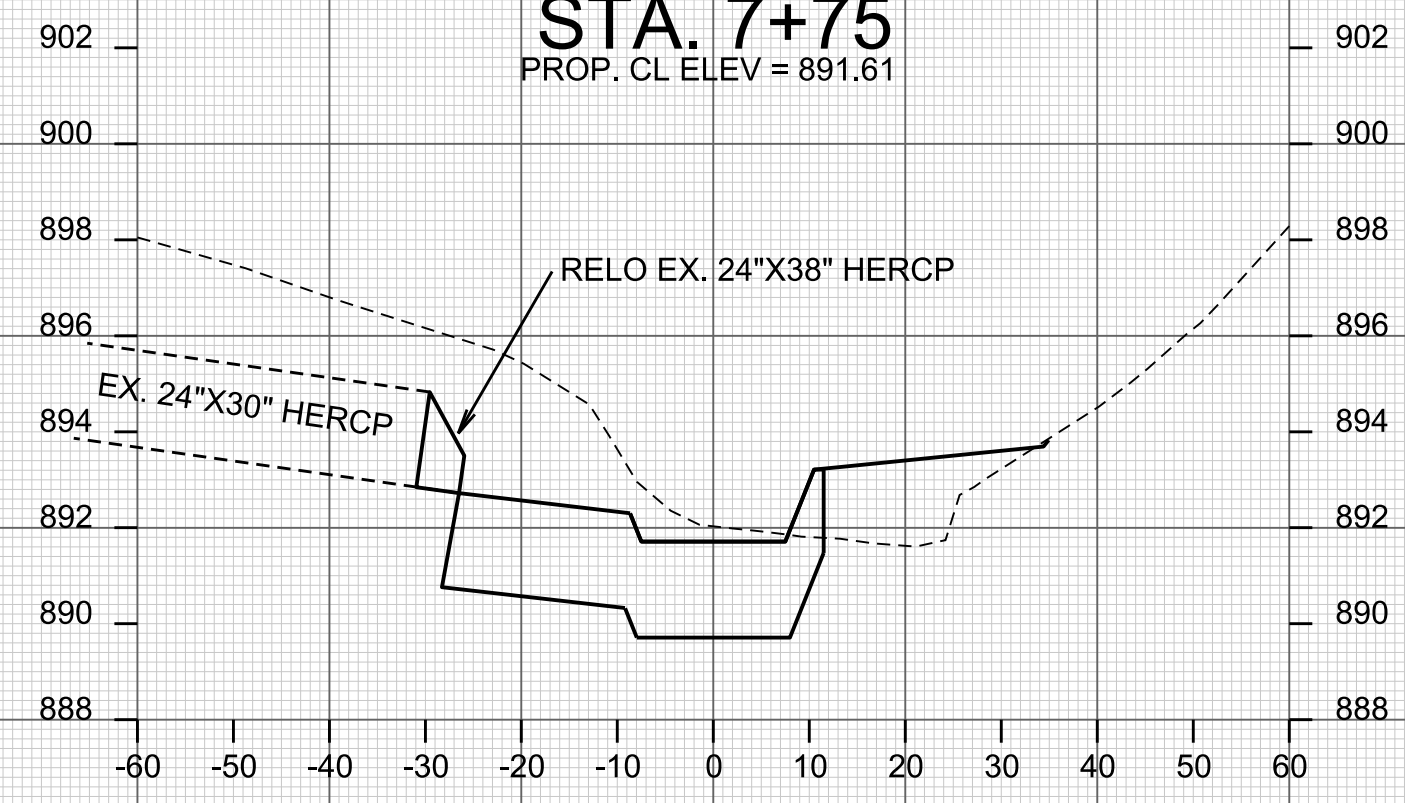
STA. 7+25
PROP. CL ELEV = 891.81



STA. 7+75
PROP. CL ELEV = 891.61



STA. 7+00
PROP. CL ELEV = 891.91



STA. 7+50
PROP. CL ELEV = 891.71



CROSS SECTIONS

BORDNER PARK

CITY OF MADISON

PLOT SCALE: _____

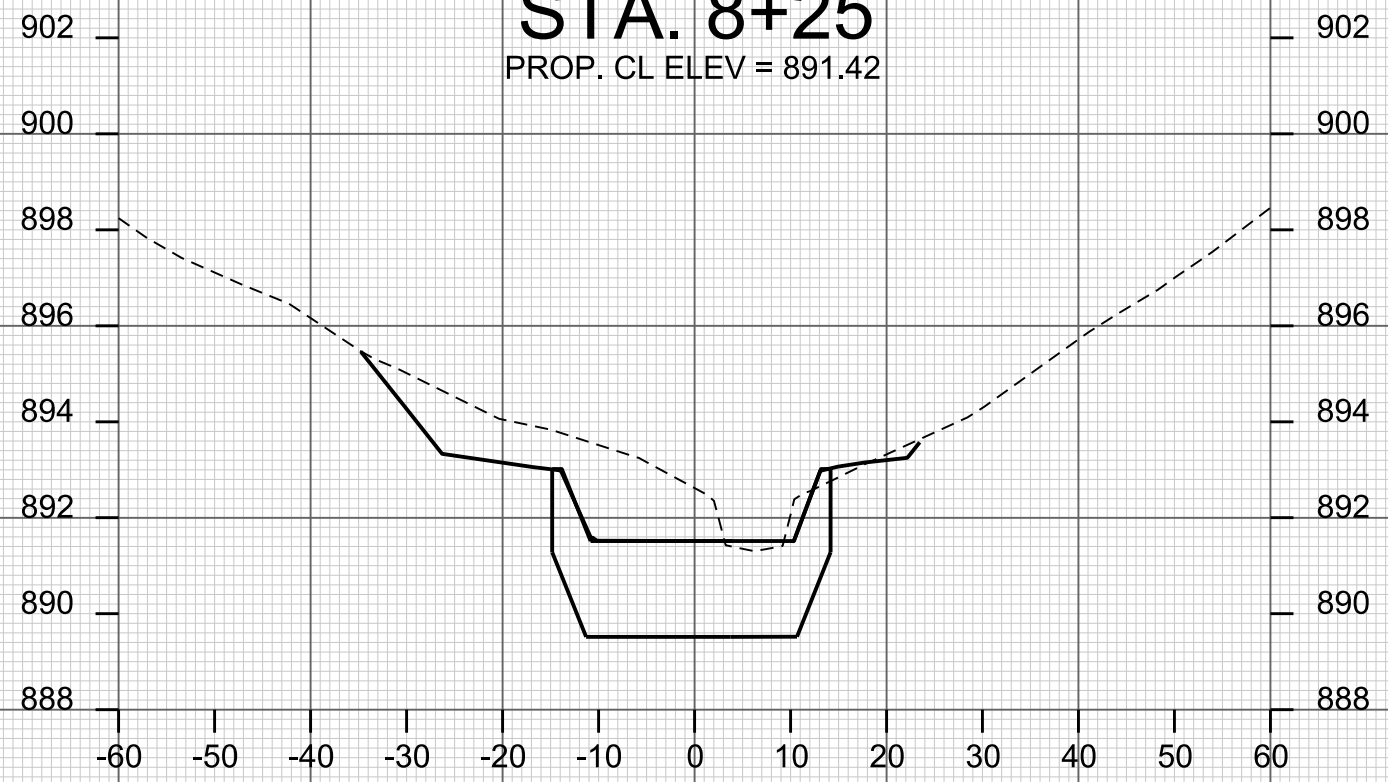
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 8+25
PROP. CL ELEV = 891.42



STA. 8+00
PROP. CL ELEV = 891.52



STA. 8+42

