

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

SPRING HARBOR AT MASTHEAD (NAUTILUS POND)

CITY PROJECT NO. 11399
CONTRACT NO. 8325

PUBLIC IMPROVEMENT PROJECT APPROVED

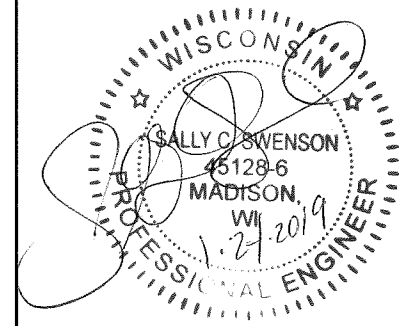
NOVEMBER 20, 2018

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 1/24/19
City Engineer Date

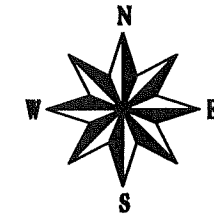
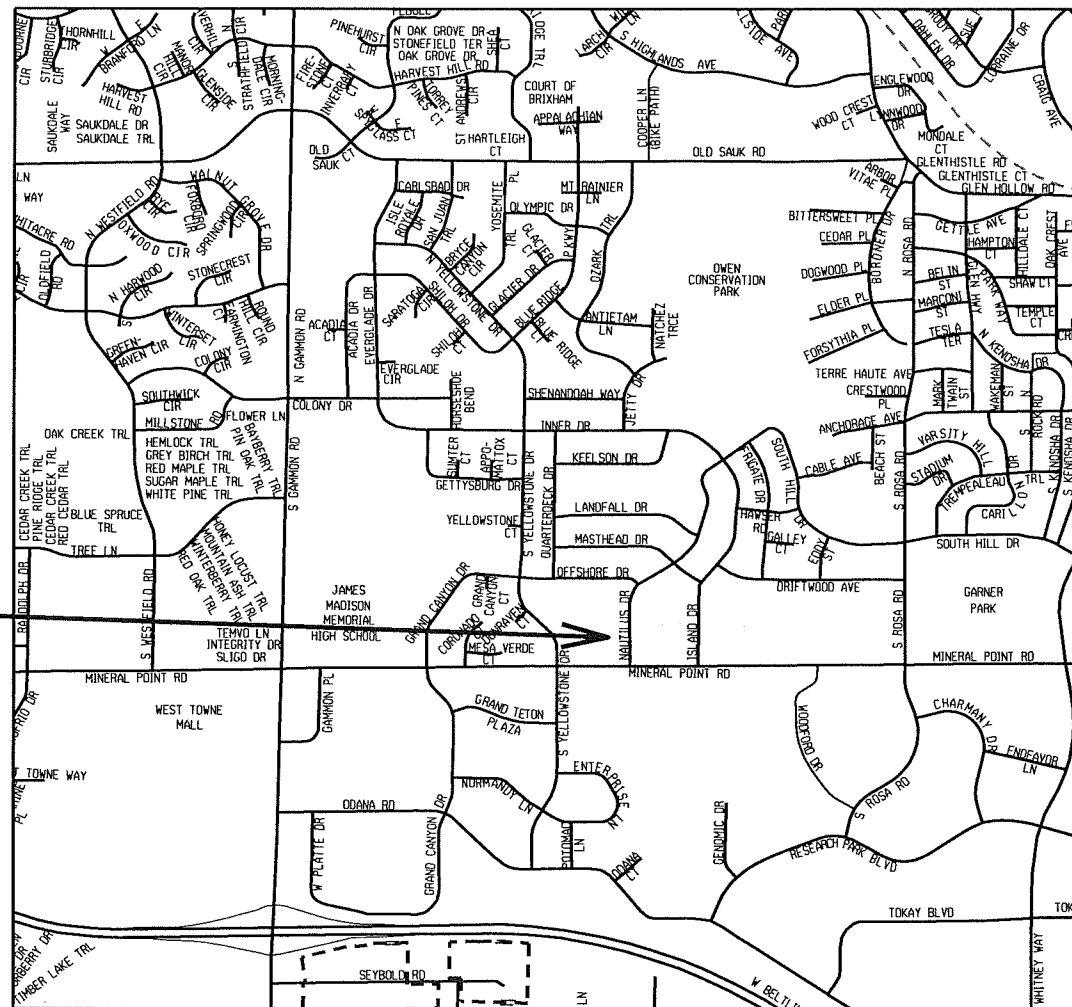
STORM SEWER DESIGNED BY:



INDEX OF SHEETS

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PROJECT LOCATION



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

PLOT SCALE: _____

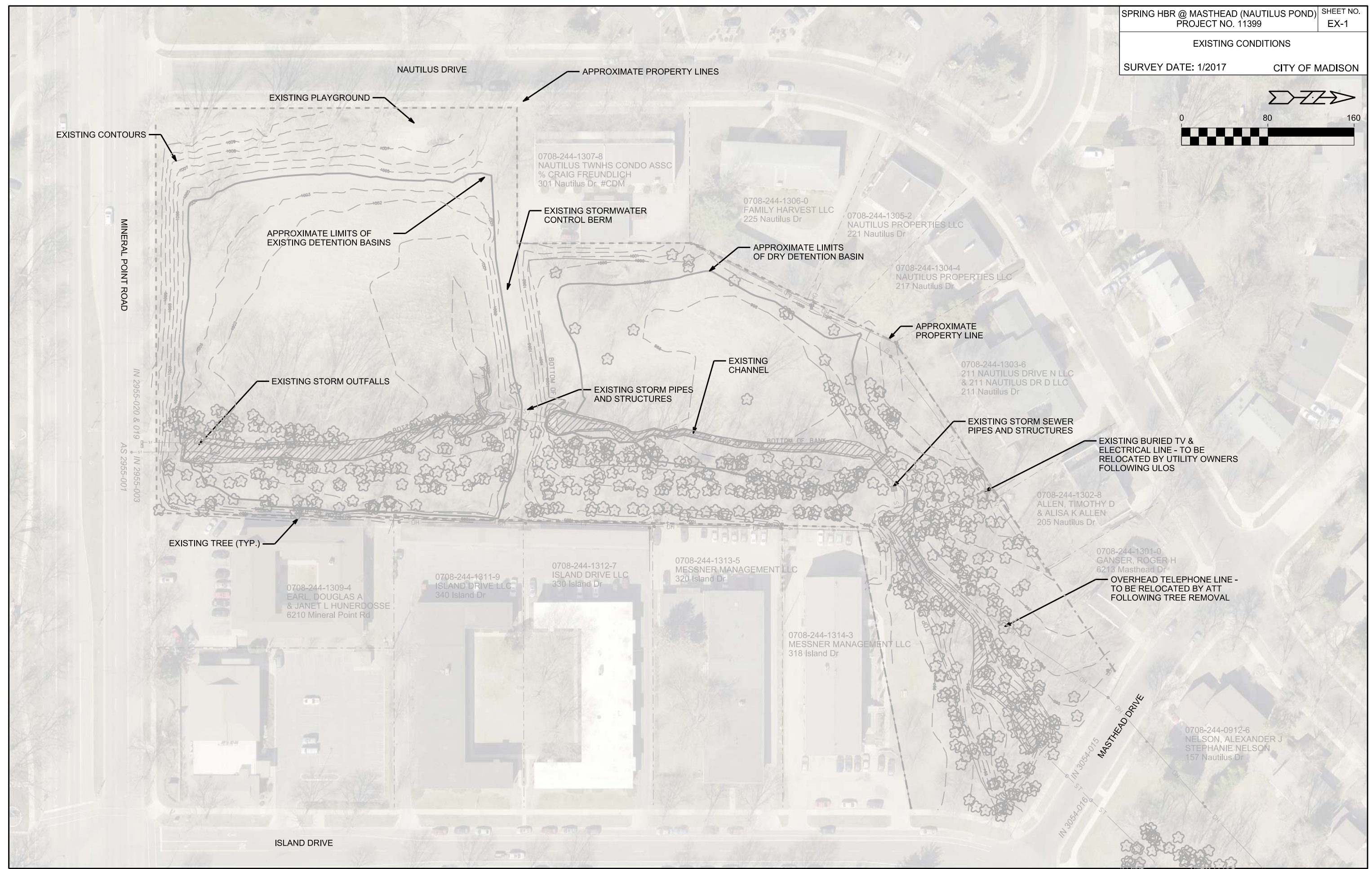
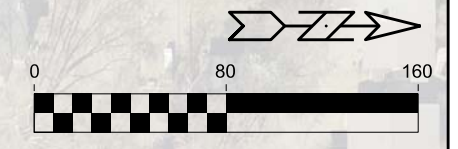
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EXISTING CONDITIONS

SURVEY DATE: 1/2017 CITY OF MADISON



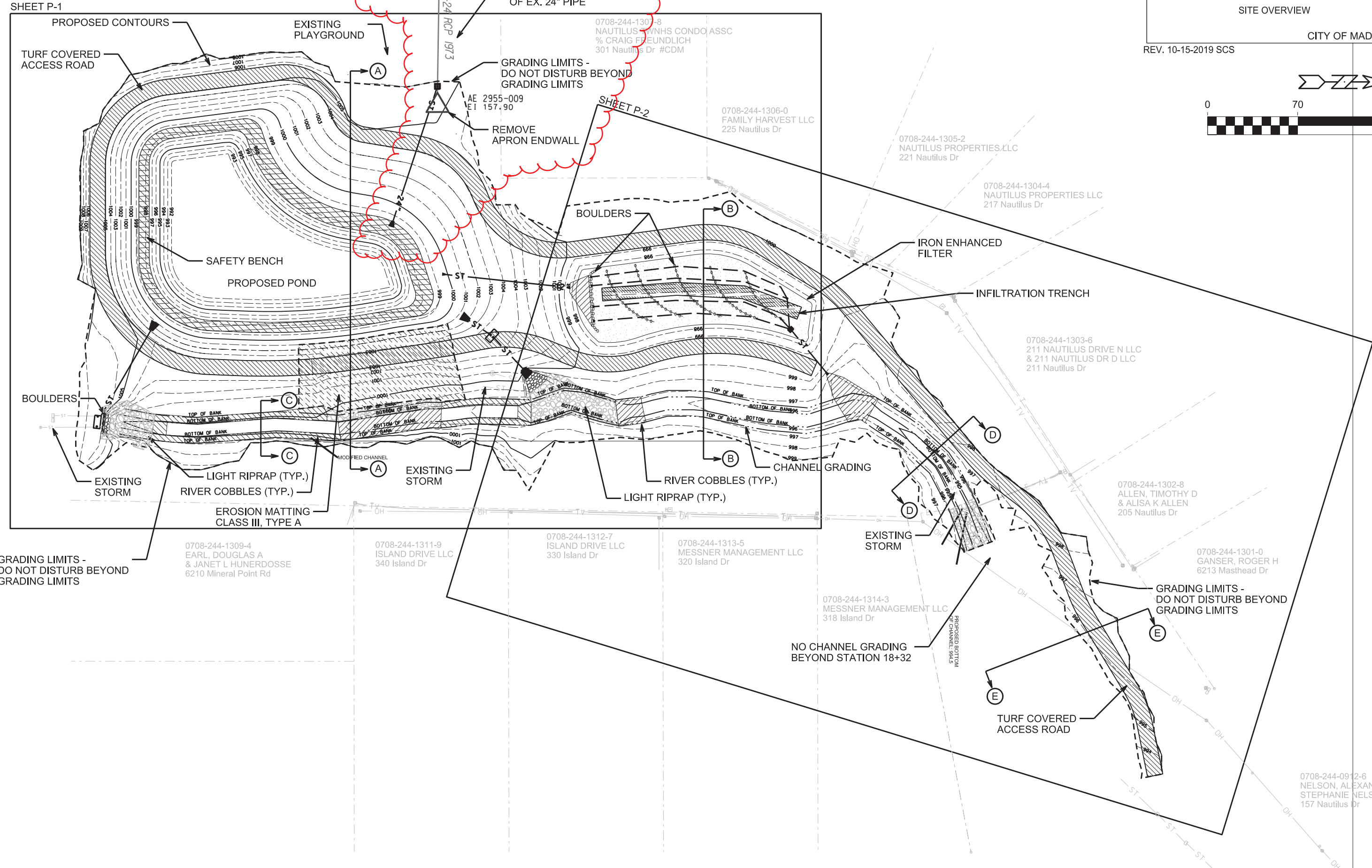
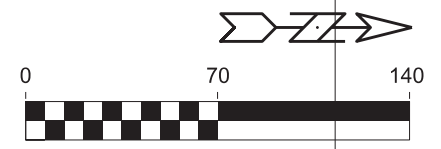
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REV. 10-15-2019 SCS

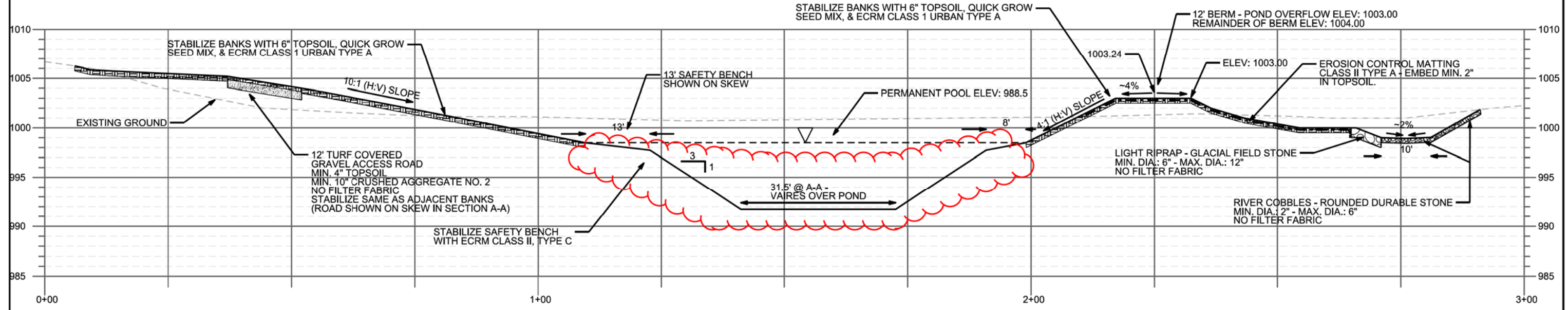


PLOT SCALE: _____

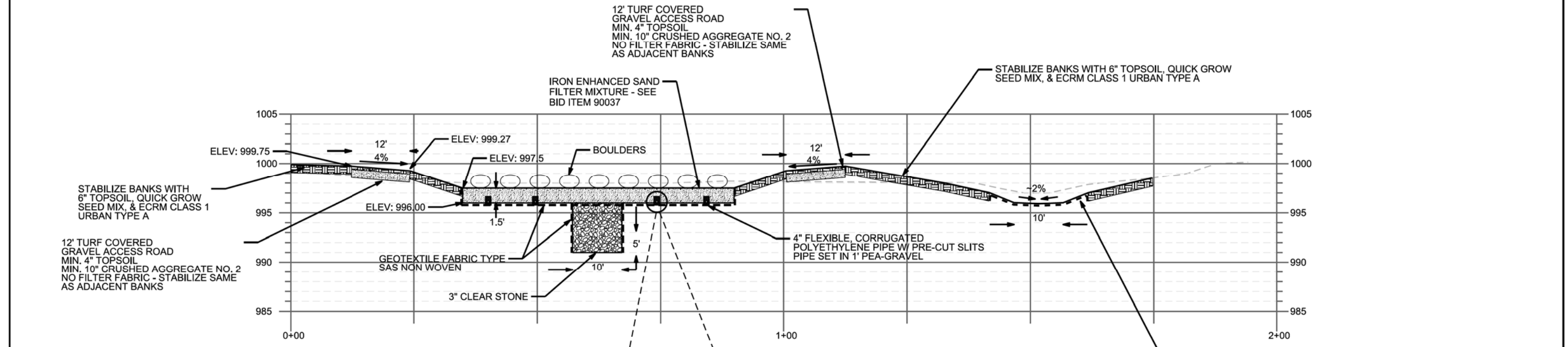
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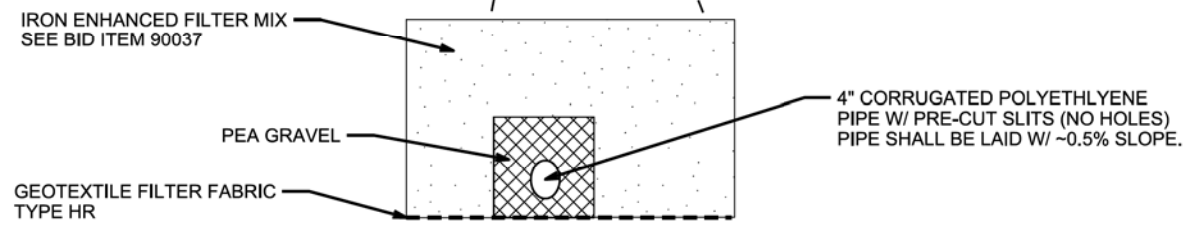
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



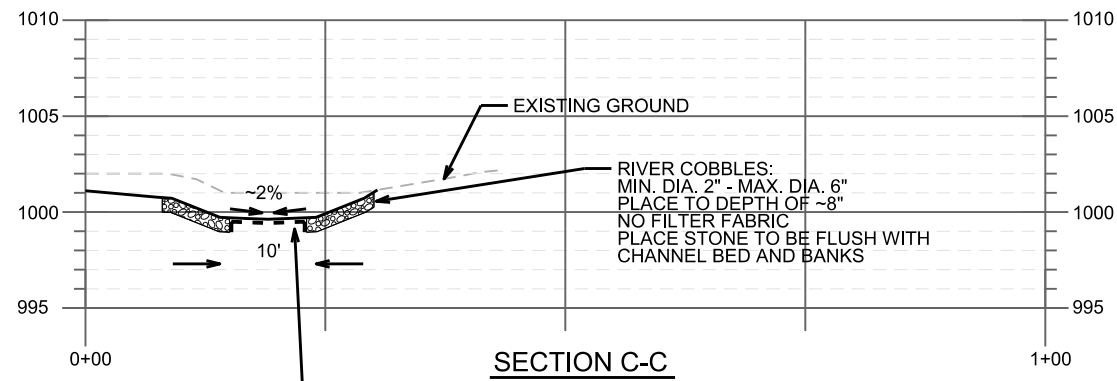
NOTE:
 ALL STONE PLACED WITHIN THE CHANNEL SHALL BE PLACED SUCH THAT THE TOP STONE IS FLUSH WITH THE ADJACENT CHANNEL GRADE. STONES SHALL NOT BE SIGNIFICANTLY ELEVATED BEYOND THE CHANNEL.



AFTER GRADING CHANNEL, THE CONTRACTOR SHALL COMPACT THE CHANNEL BED WITH BUCKET TO STABILIZE BED MATERIAL. PLACE ECRM CLASS II TYPE C MATTING ON ALL BED SECTIONS NOT STABILIZED W/ RIPRAP.

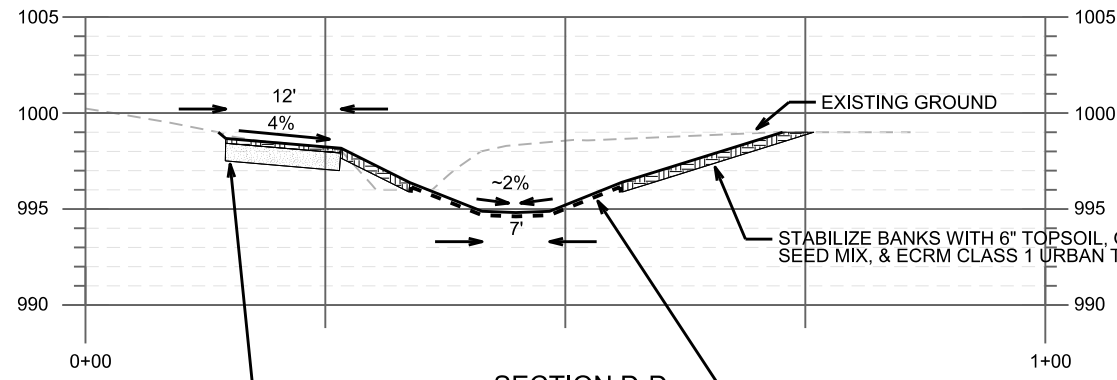
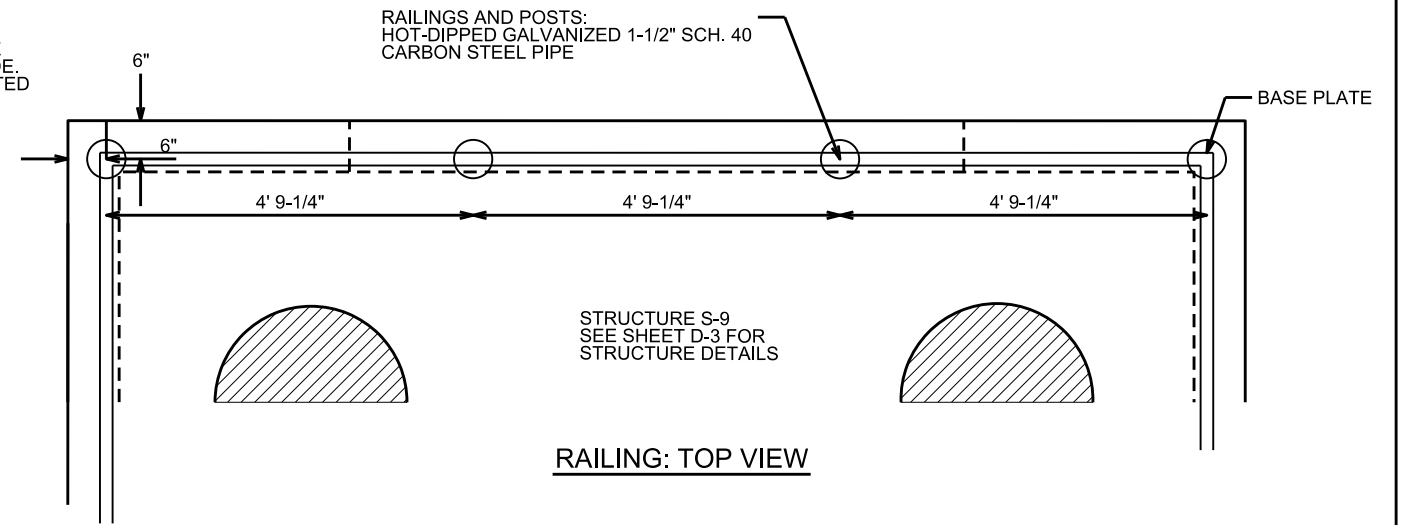


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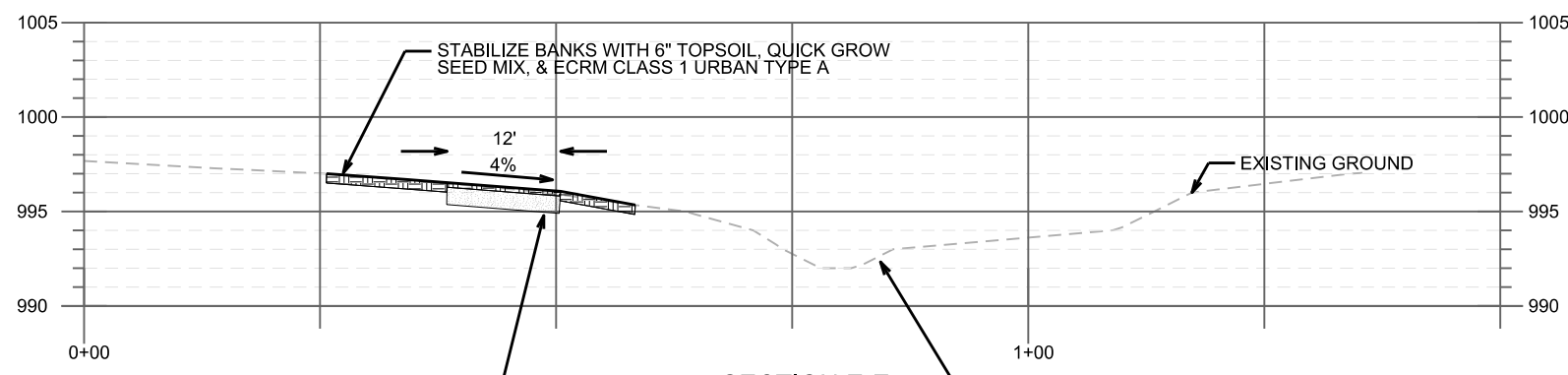
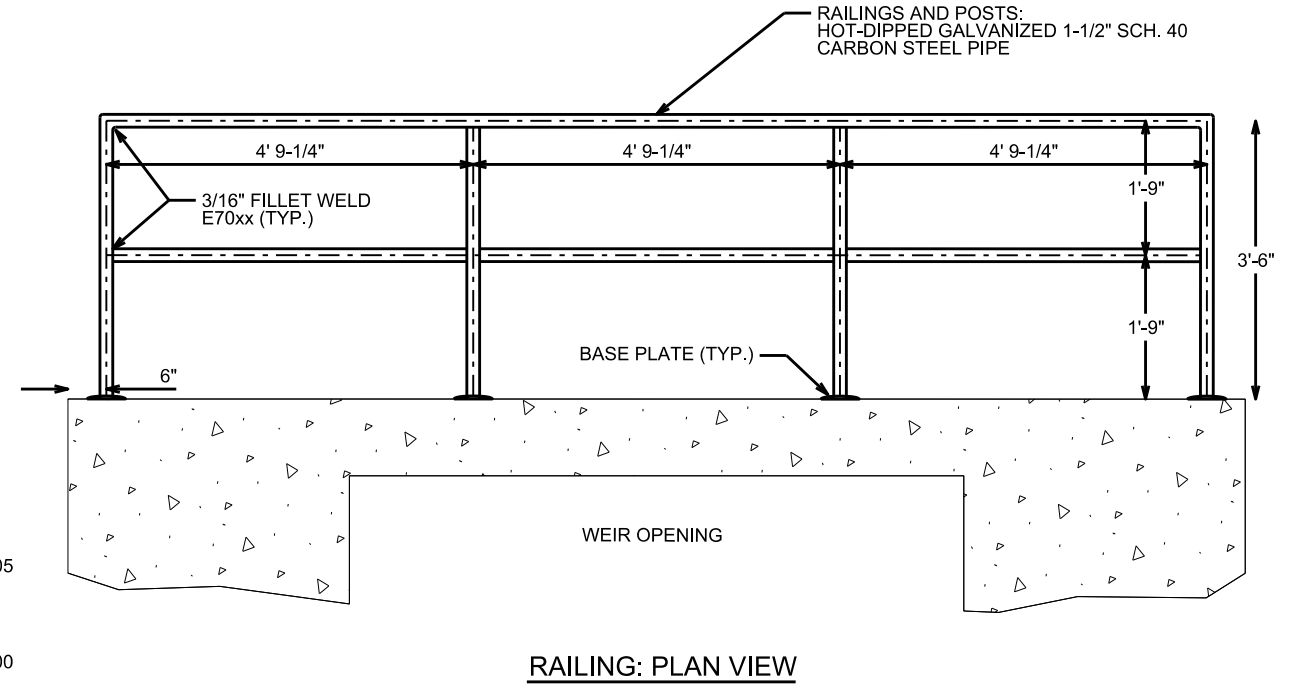
FOLLOWING CHANNEL GRADING THE CONTRACTOR SHALL COMPACT THE CHANNEL BED WITH BUCKET TO STABILIZE BED MATERIAL. PLACE ECRM CLASS II TYPE C MATTING ON ALL BED SECTIONS NOT STABILIZED W/ RIPRAP. ECRM SHALL BE TOED IN BENEATH STONE.

NOTE: ALL STONE PLACED WITHIN THE CHANNEL SHALL BE PLACED SUCH THAT THE TOP STONE IS FLUSH WITH THE ADJACENT CHANNEL GRADE. STONES SHALL NOT BE SIGNIFICANTLY ELEVATED BEYOND THE CHANNEL.



12' TURF COVERED GRAVEL ACCESS ROAD MIN. 4" TOPSOIL MIN. 10" CRUSHED AGGREGATE NO. 2 NO FILTER FABRIC

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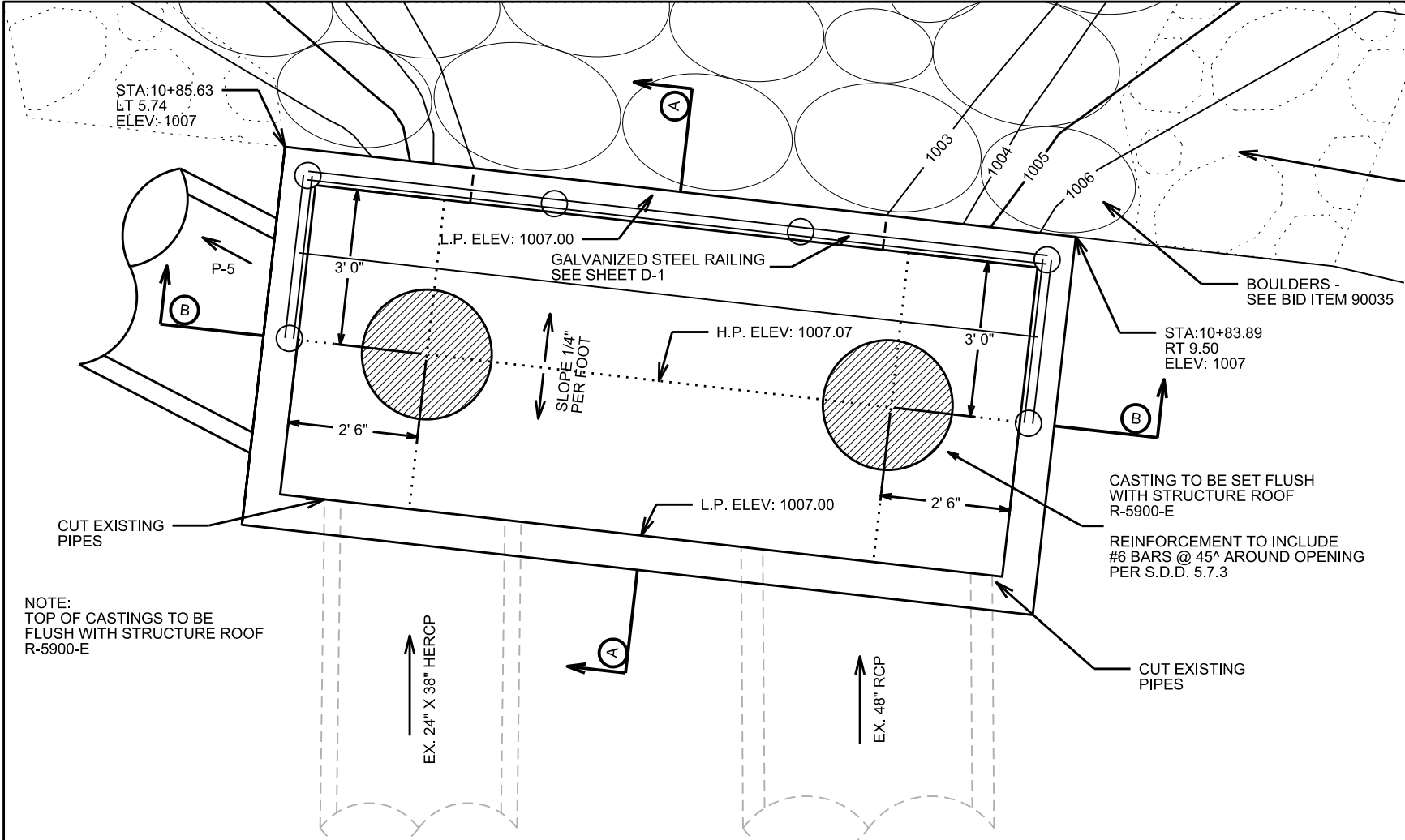
12' TURF COVERED GRAVEL ACCESS ROAD MIN. 4" TOPSOIL MIN. 10" CRUSHED AGGREGATE NO. 2 NO FILTER FABRIC STABILIZATION SAME AS ADJACENT BANKS

NO CHANNEL GRADING BEYOND STATION 18+32. ANY DISTURBANCE TO CHANNEL IN THIS AREA SHALL BE STABILIZED WITH RIPRAP

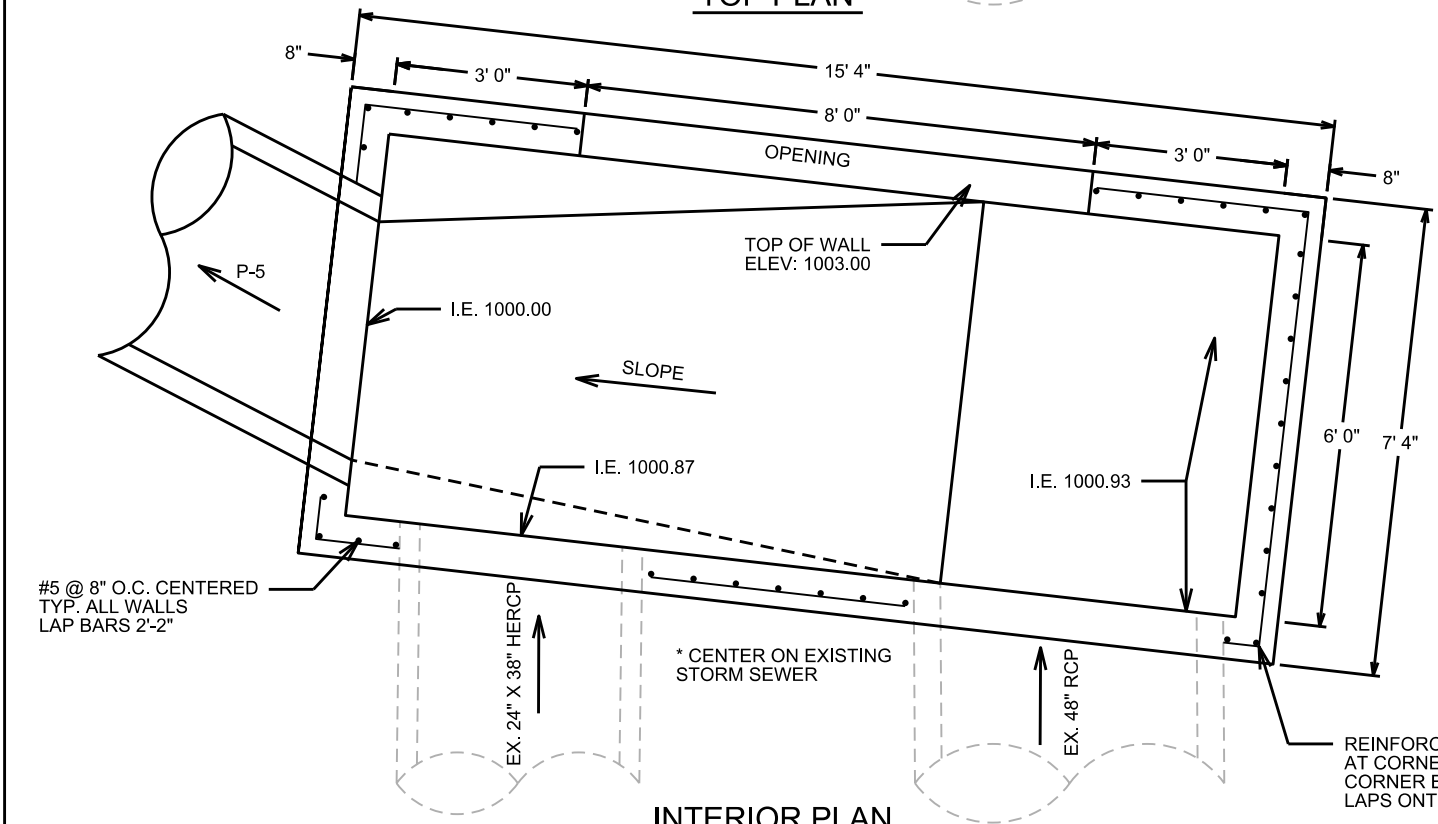
RAILING NOTES:

- 1) ALL RAILS AND POSTS SHALL BE ASTM A53 GRADE B 1-1/2" DIA. SCHEDULE 40 HOT-DIPPED, GALVANIZED STEEL PIPE.
- 2) POST BASE PLATES SHALL BE ASTM A36.
- 3) BASE PLATES SHALL BE MIN 3/8" THICK AND SHALL HAVE 4 x 1/2" CLEARANCE HOLES FOR ANCHORS.
- 4) ANCHOR RAILING TO CONCRETE USING 4 x 3/8" DIA. SS ADHESIVE ANCHORS AT EACH BASE PLATE. 4" EMBED DEPTH.
- 5) RAILING SYSTEM SHALL BE HOT-DIPPED, GALVANIZED. FIELD GALVANIZING SHALL BE COMPLETED ON ALL CUTS, GRINDS, ETC.
- 6) ALL WELDS SHALL BE 3/16" FILLET WELDS, COMPRISED OF E70xx FILLET WELD MATERIAL.
- 7) RAILING SYSTEM SHALL MEET OSHA PERFORMANCE STANDARDS FOR PUBLIC AND INDUSTRIAL APPLICATIONS AND THE INTERNATIONAL BUILDING CODE.
- 8) CENTER RAILING ON STRUCTURE.

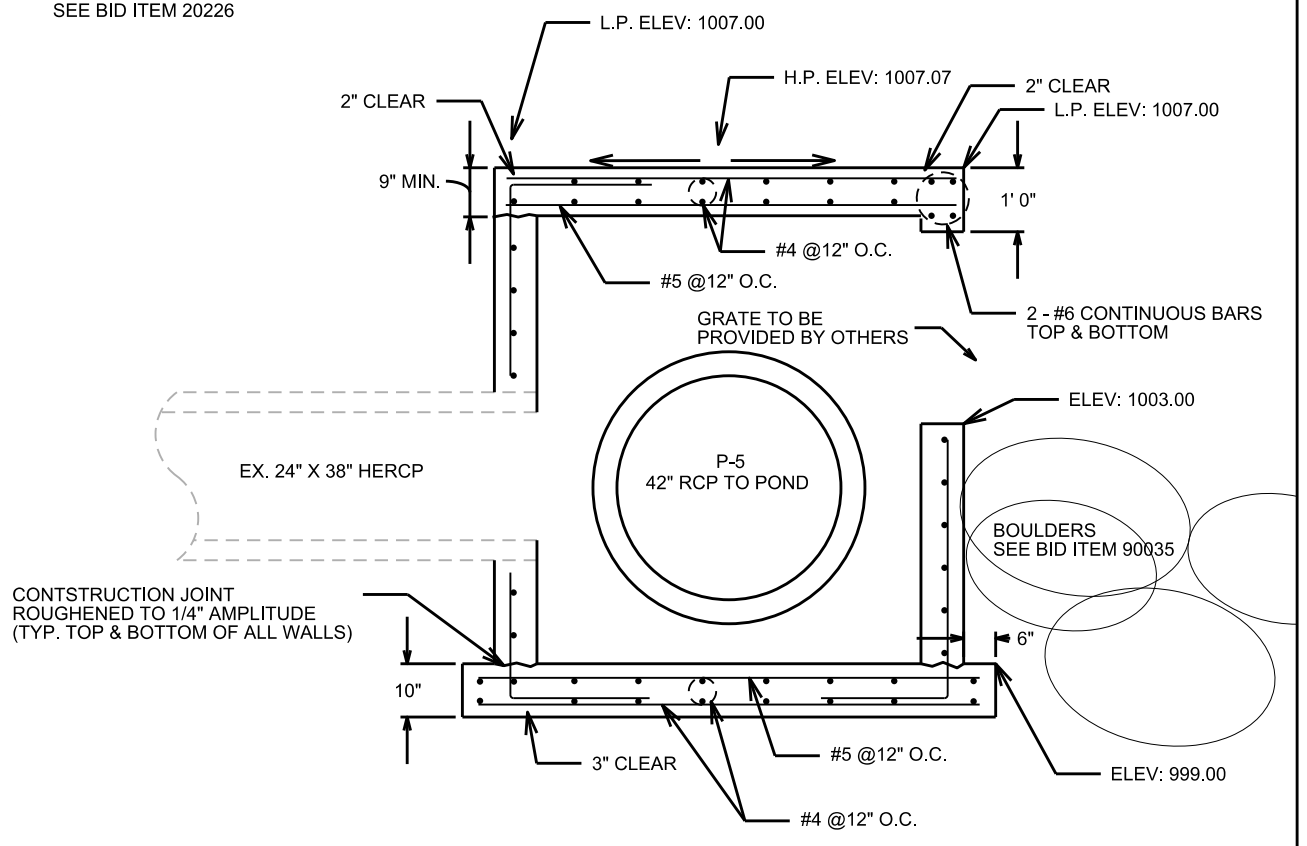
PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____ ORIGINATOR: CITY OF MADISON, STREETS DIVISION



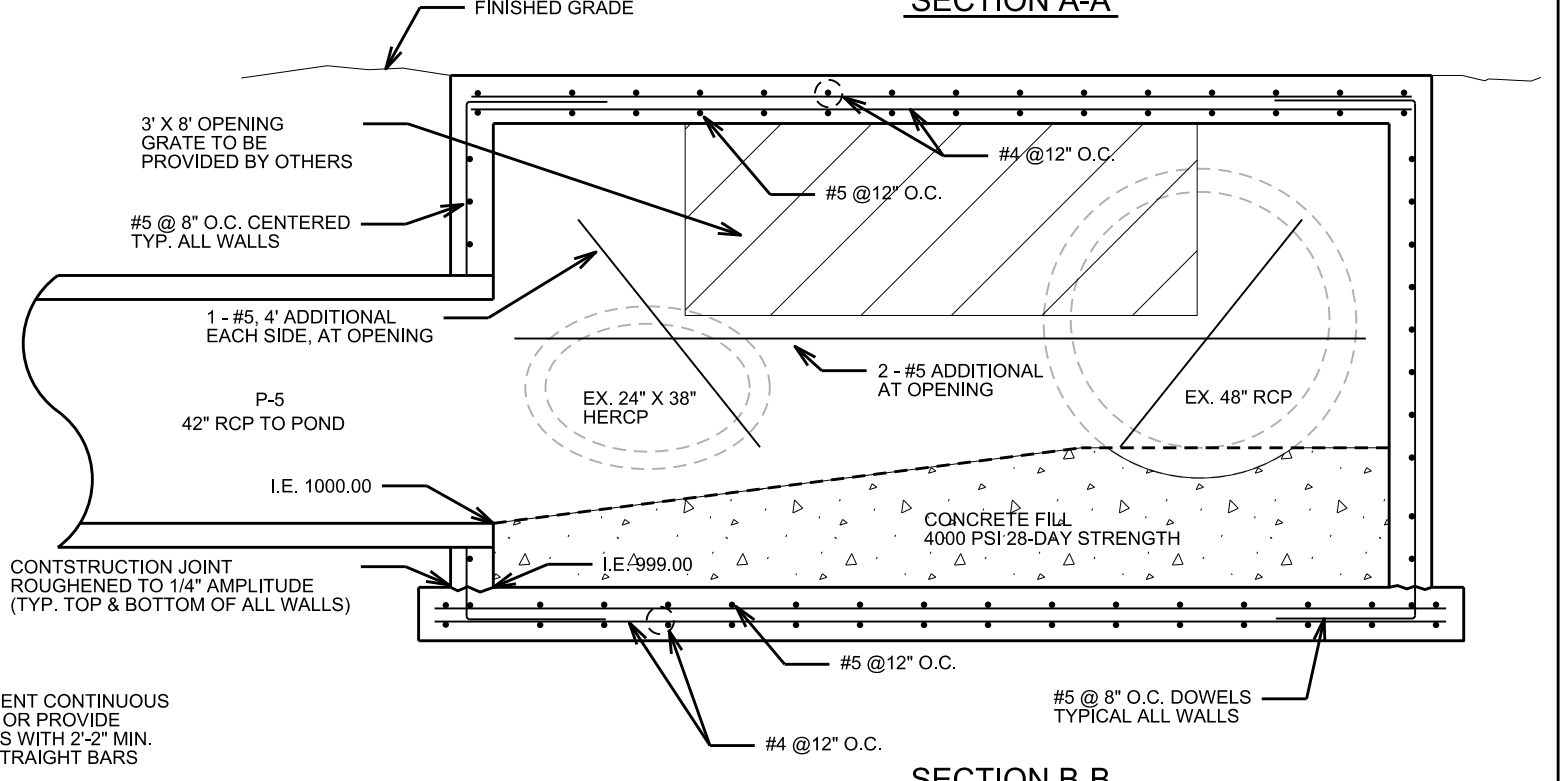
TOP PLAN



INTERIOR PLAN

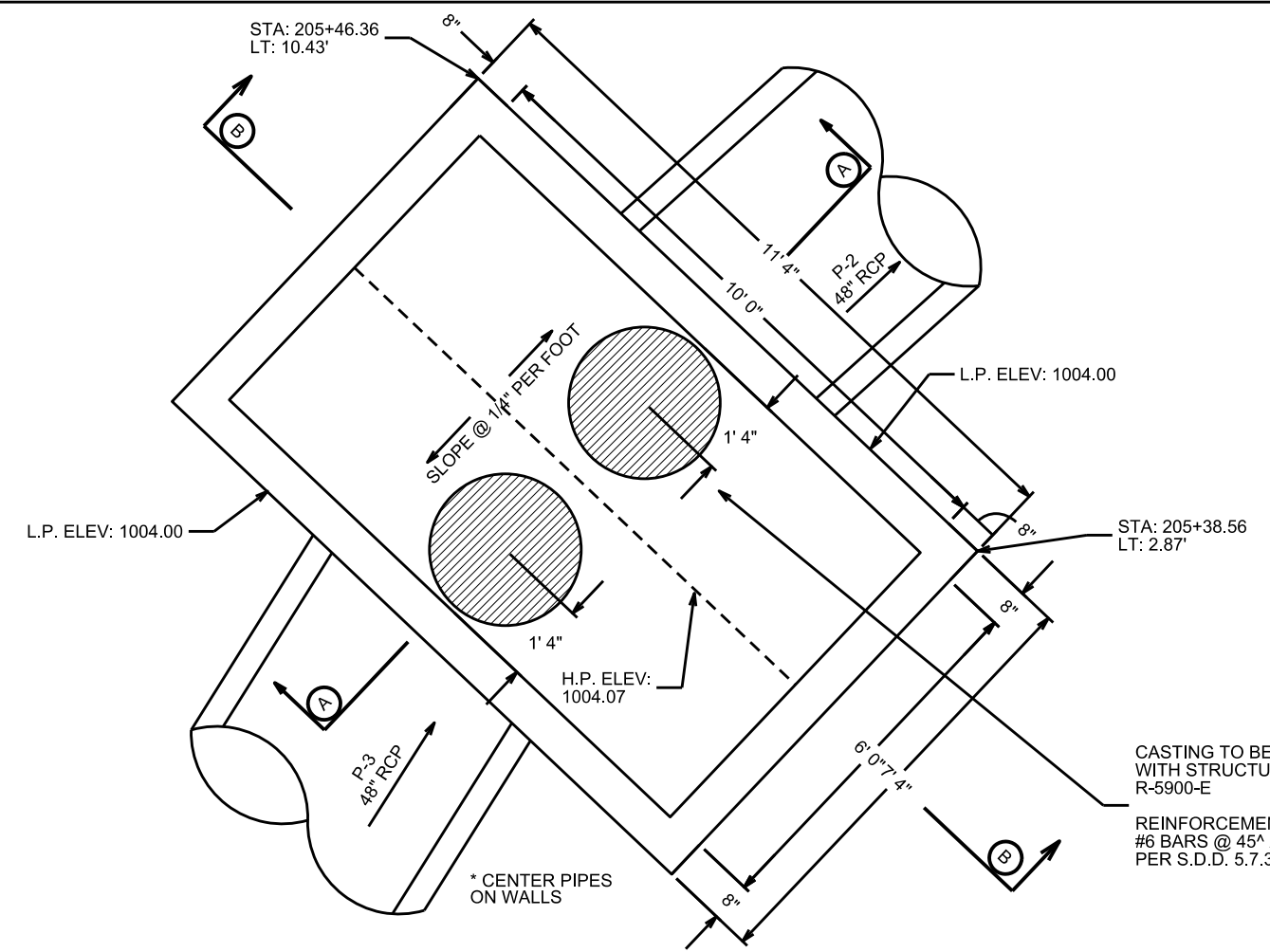


SECTION A-A

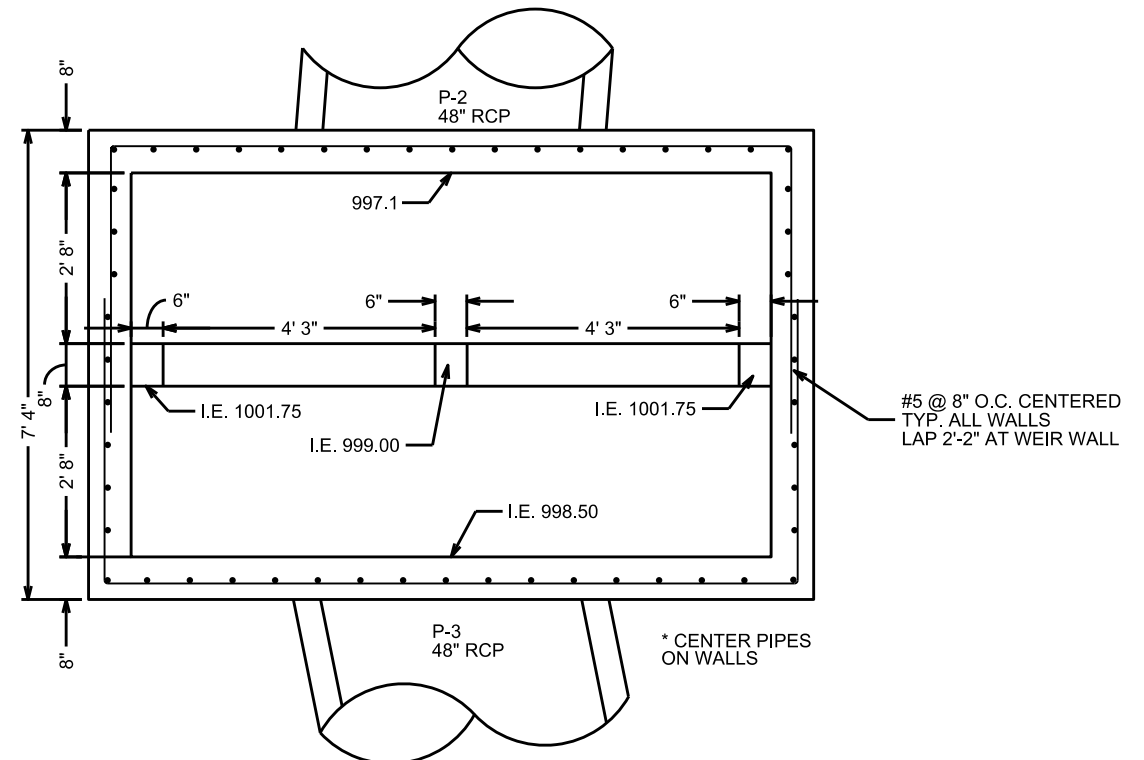


SECTION B-B

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



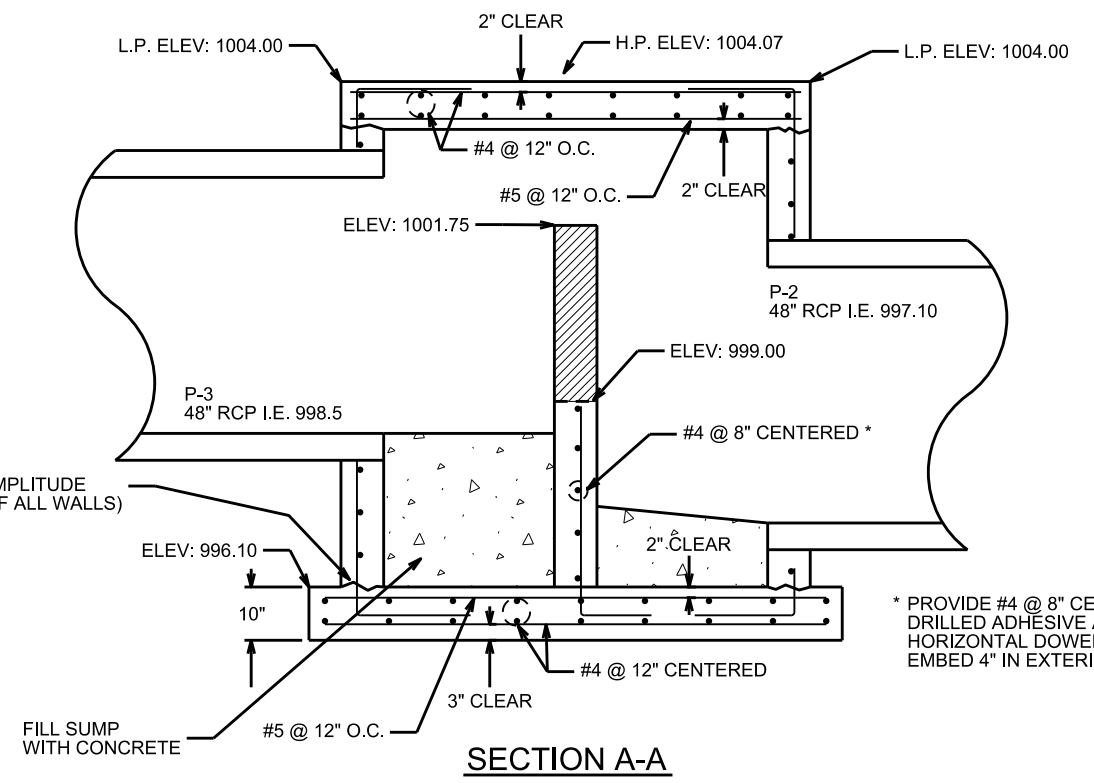
TOP PLAN



INTERIOR PLAN

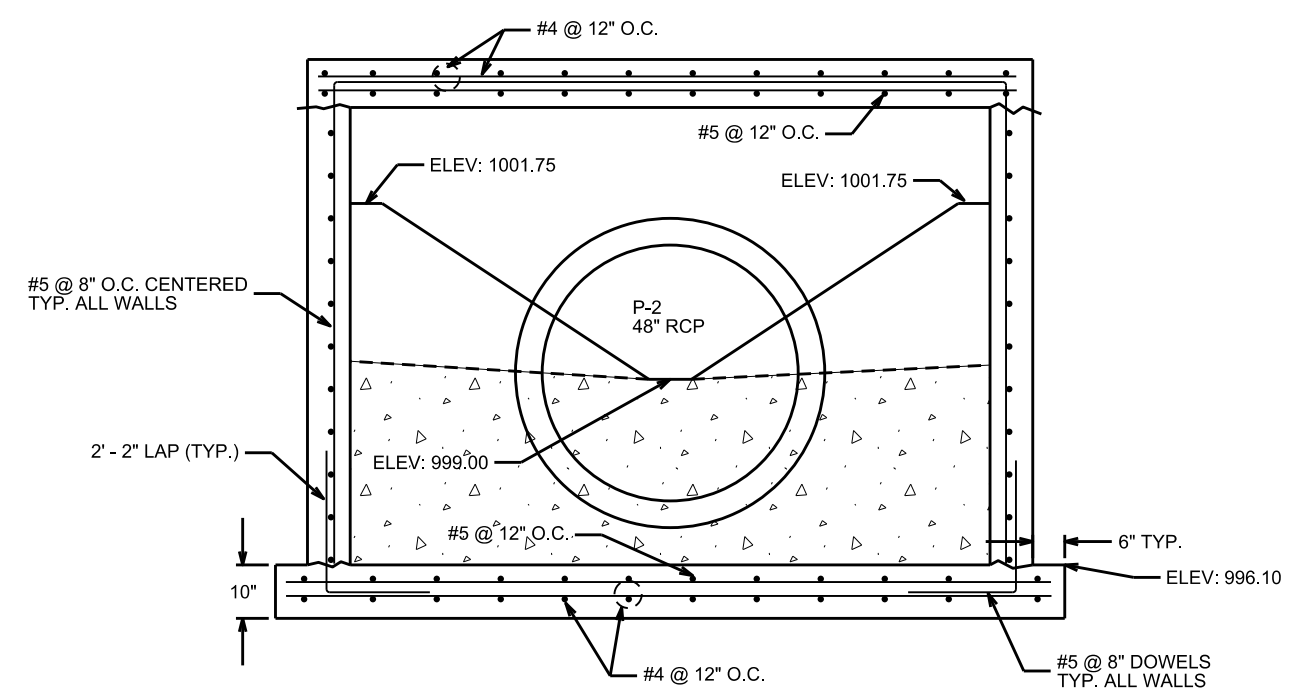
CASTING TO BE SET FLUSH WITH STRUCTURE ROOF R-5900-E
 REINFORCEMENT TO INCLUDE #6 BARS @ 45° AROUND OPENING PER S.D.D. 5.7.3

CONSTRUCTION JOINT ROUGHENED TO 1/4" AMPLITUDE (TYP. TOP & BOTTOM OF ALL WALLS)



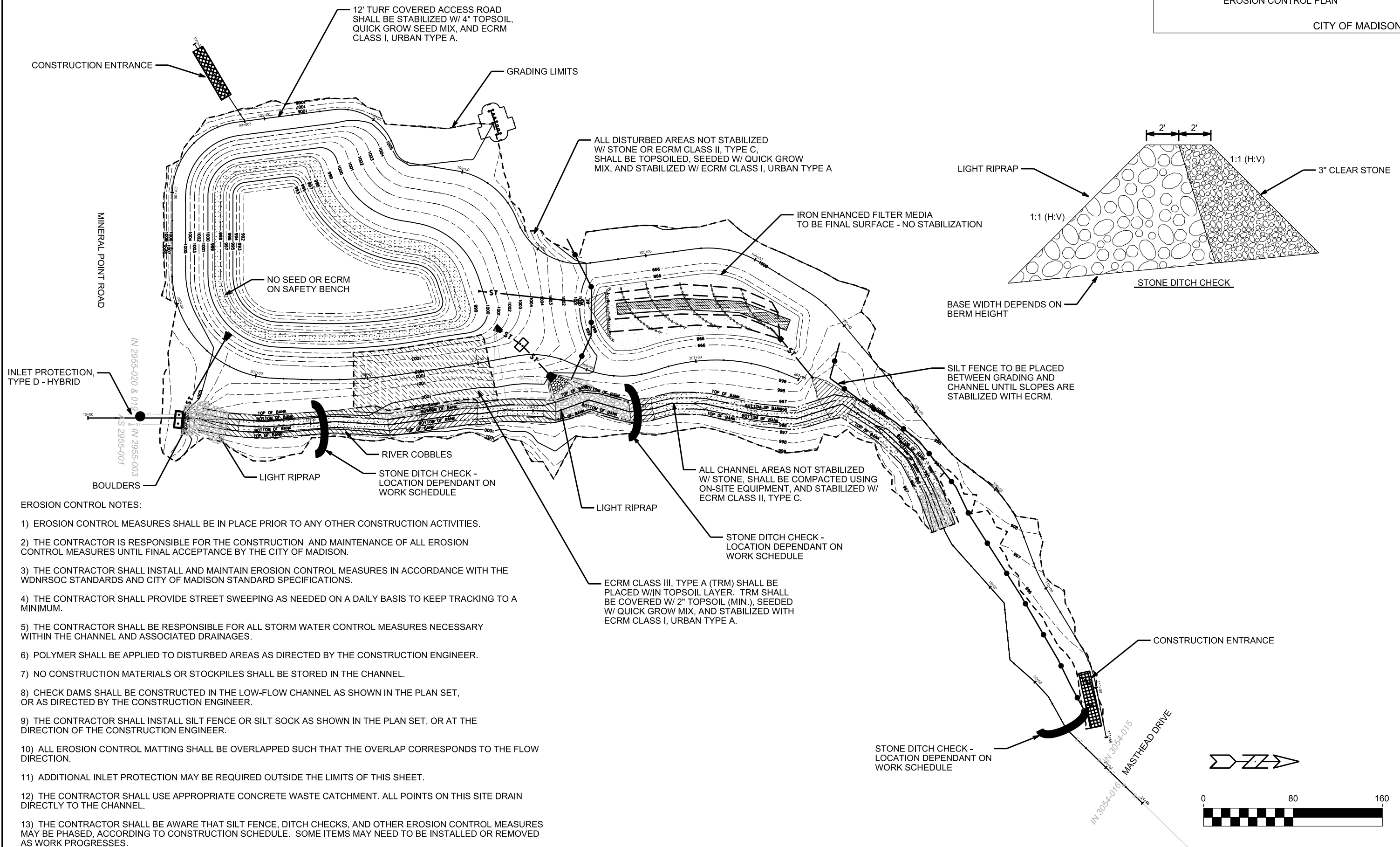
SECTION A-A

* PROVIDE #4 @ 8" CENTERED x 2' - 6" DRILLED ADHESIVE ANCHOR HORIZONTAL DOWELS EACH END. EMBED 4" IN EXTERIOR WALL



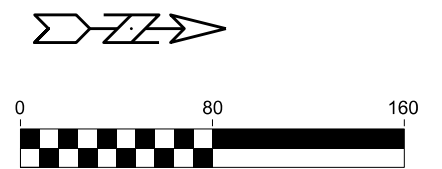
SECTION B-B

PLOT SCALE: _____
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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

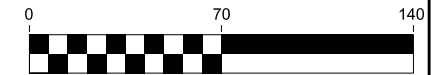


EROSION CONTROL NOTES:

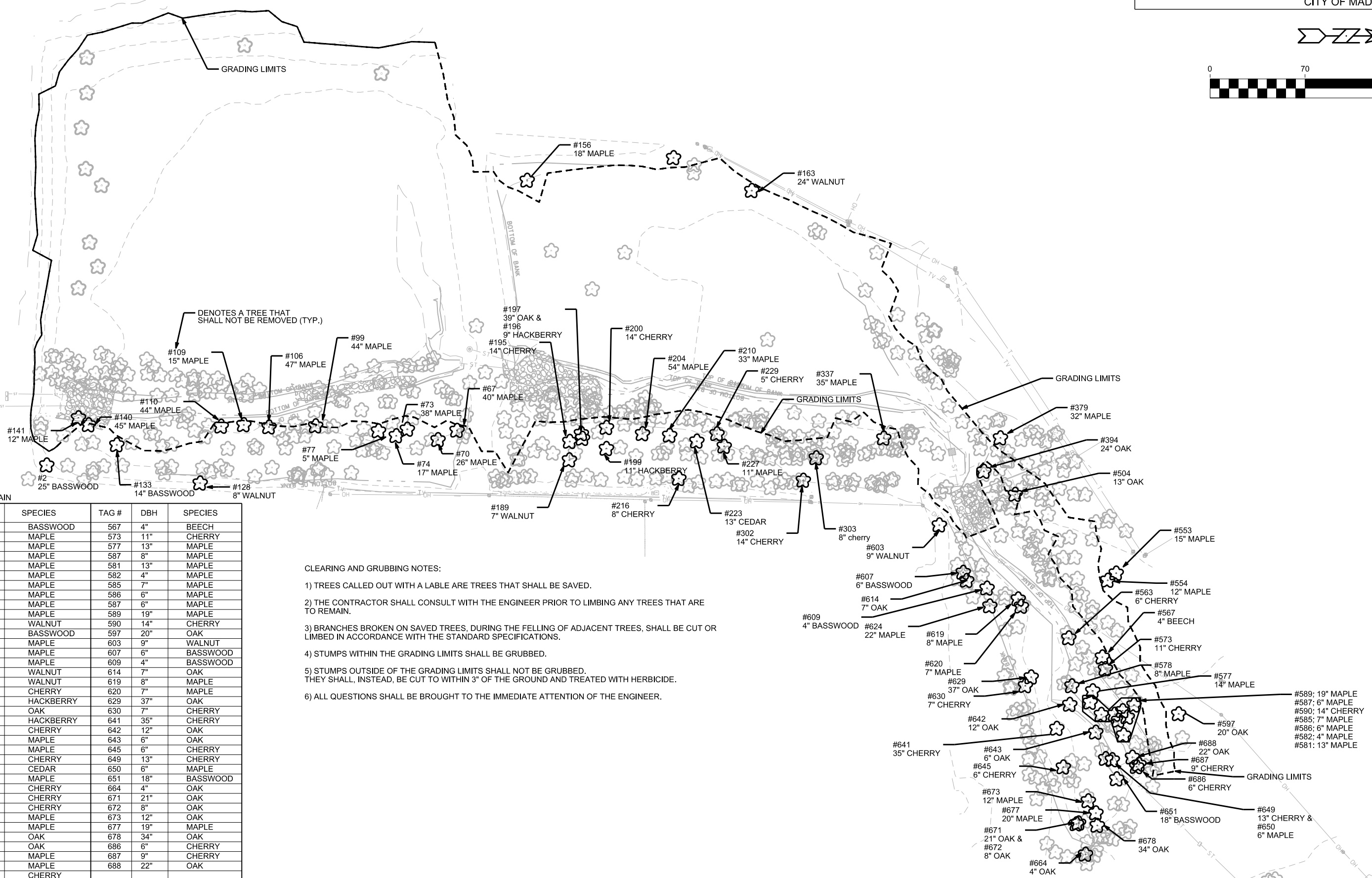
- 1) EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.
- 3) THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.
- 4) THE CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER CONTROL MEASURES NECESSARY WITHIN THE CHANNEL AND ASSOCIATED DRAINAGES.
- 6) POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.
- 7) NO CONSTRUCTION MATERIALS OR STOCKPILES SHALL BE STORED IN THE CHANNEL.
- 8) CHECK DAMS SHALL BE CONSTRUCTED IN THE LOW-FLOW CHANNEL AS SHOWN IN THE PLAN SET, OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.
- 9) THE CONTRACTOR SHALL INSTALL SILT FENCE OR SILT SOCK AS SHOWN IN THE PLAN SET, OR AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
- 10) ALL EROSION CONTROL MATTING SHALL BE OVERLAPPED SUCH THAT THE OVERLAP CORRESPONDS TO THE FLOW DIRECTION.
- 11) ADDITIONAL INLET PROTECTION MAY BE REQUIRED OUTSIDE THE LIMITS OF THIS SHEET.
- 12) THE CONTRACTOR SHALL USE APPROPRIATE CONCRETE WASTE CATCHMENT. ALL POINTS ON THIS SITE DRAIN DIRECTLY TO THE CHANNEL.
- 13) THE CONTRACTOR SHALL BE AWARE THAT SILT FENCE, DITCH CHECKS, AND OTHER EROSION CONTROL MEASURES MAY BE PHASED, ACCORDING TO CONSTRUCTION SCHEDULE. SOME ITEMS MAY NEED TO BE INSTALLED OR REMOVED AS WORK PROGRESSES.



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



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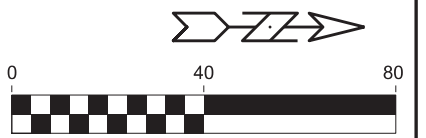


TREES TO REMAIN

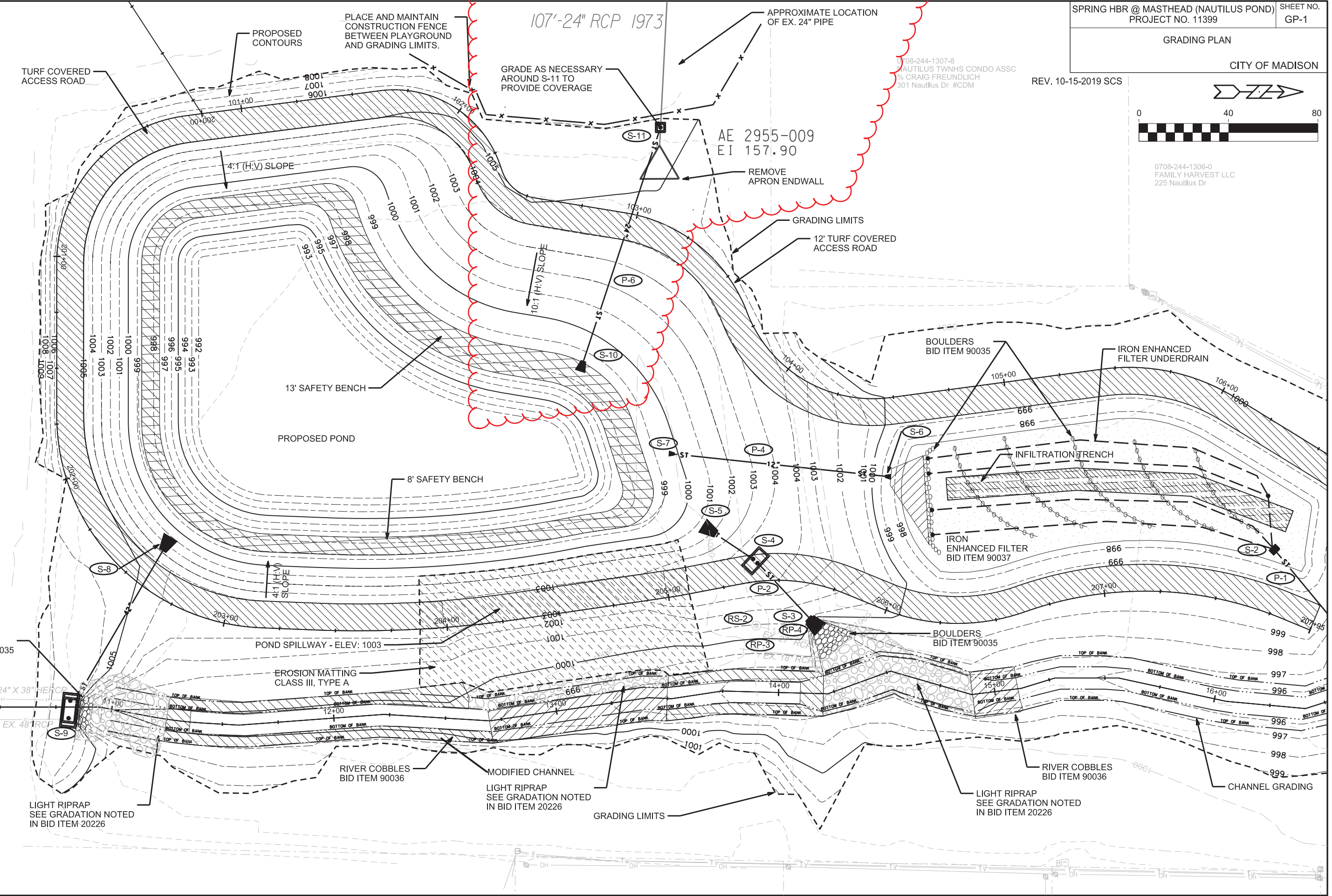
TAG #	DBH	SPECIES	TAG #	DBH	SPECIES
2	25"	BASSWOOD	567	4"	BEECH
67	40"	MAPLE	573	11"	CHERRY
70	26"	MAPLE	577	13"	MAPLE
73	38"	MAPLE	587	8"	MAPLE
74	17"	MAPLE	581	13"	MAPLE
77	5"	MAPLE	582	4"	MAPLE
99	44"	MAPLE	585	7"	MAPLE
106	47"	MAPLE	586	6"	MAPLE
109	15"	MAPLE	587	6"	MAPLE
110	44"	MAPLE	589	19"	MAPLE
128	8"	WALNUT	590	14"	CHERRY
133	14"	BASSWOOD	597	20"	OAK
140	45"	MAPLE	603	9"	WALNUT
140	12"	MAPLE	607	6"	BASSWOOD
156	18"	MAPLE	609	4"	BASSWOOD
163	24"	WALNUT	614	7"	OAK
189	7"	WALNUT	619	8"	MAPLE
195	14"	CHERRY	620	7"	MAPLE
196	9"	HACKBERRY	629	37"	OAK
197	39"	OAK	630	7"	CHERRY
199	11"	HACKBERRY	641	35"	CHERRY
200	14"	CHERRY	642	12"	OAK
204	54"	MAPLE	643	6"	OAK
210	33"	MAPLE	645	6"	CHERRY
216	8"	CHERRY	649	13"	CHERRY
223	13"	CEDAR	650	6"	MAPLE
227	11"	MAPLE	651	18"	BASSWOOD
229	5"	CHERRY	664	4"	OAK
302	14"	CHERRY	671	21"	OAK
303	8"	CHERRY	672	8"	OAK
337	35"	MAPLE	673	12"	OAK
379	32"	MAPLE	677	19"	MAPLE
394	24"	OAK	678	34"	OAK
504	13"	OAK	686	6"	CHERRY
553	15"	MAPLE	687	9"	CHERRY
554	12"	MAPLE	688	22"	OAK
563	6"	CHERRY			

CLEARING AND GRUBBING NOTES:

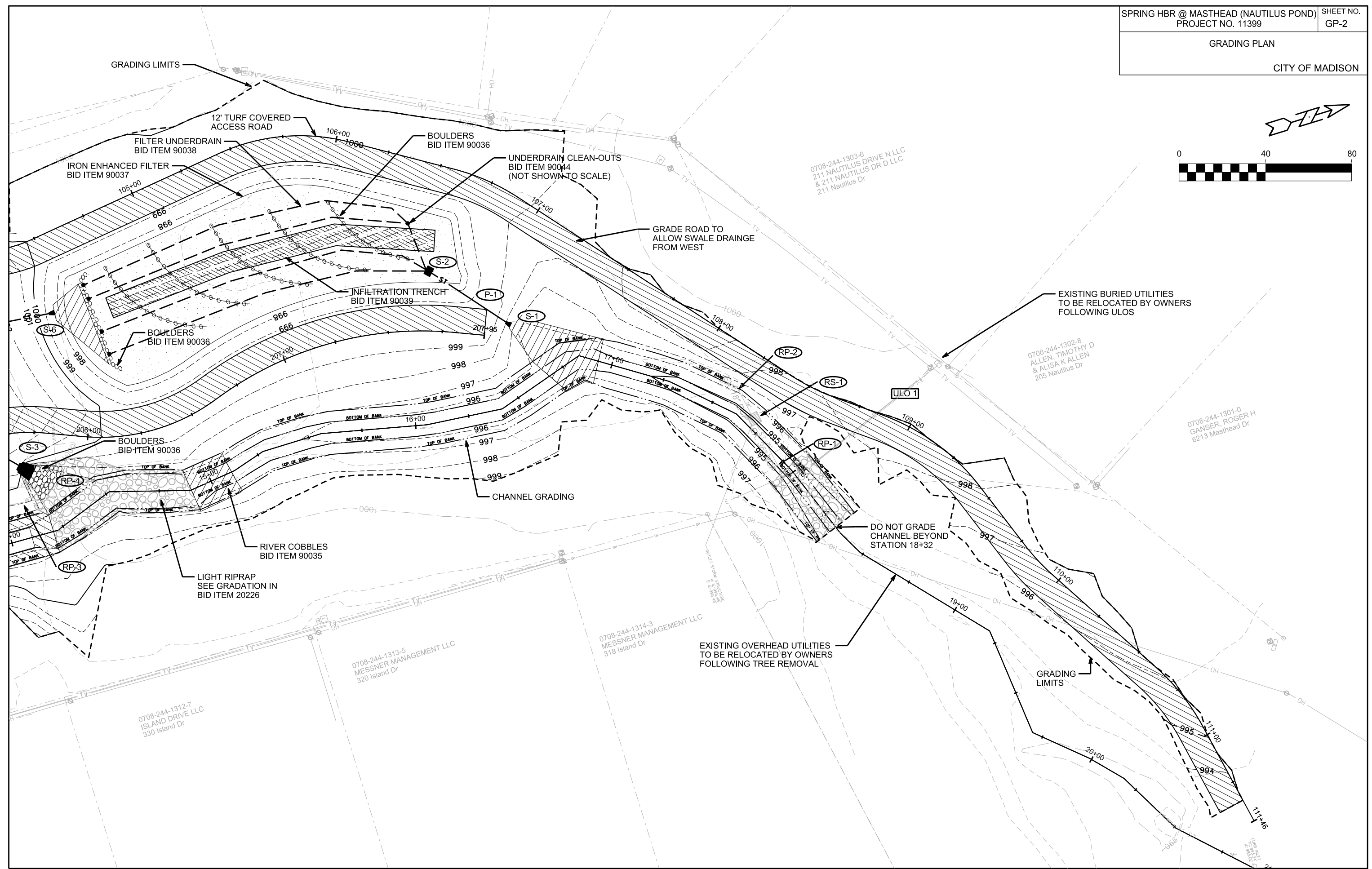
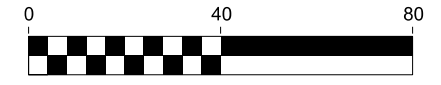
- 1) TREES CALLED OUT WITH A LABEL ARE TREES THAT SHALL BE SAVED.
- 2) THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO LIMBING ANY TREES THAT ARE TO REMAIN.
- 3) BRANCHES BROKEN ON SAVED TREES, DURING THE FELLING OF ADJACENT TREES, SHALL BE CUT OR LIMBED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- 4) STUMPS WITHIN THE GRADING LIMITS SHALL BE GRUBBED.
- 5) STUMPS OUTSIDE OF THE GRADING LIMITS SHALL NOT BE GRUBBED. THEY SHALL, INSTEAD, BE CUT TO WITHIN 3" OF THE GROUND AND TREATED WITH HERBICIDE.
- 6) ALL QUESTIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.



0708-244-1306-0
 FAMILY HARVEST LLC
 225 Nautilus Dr



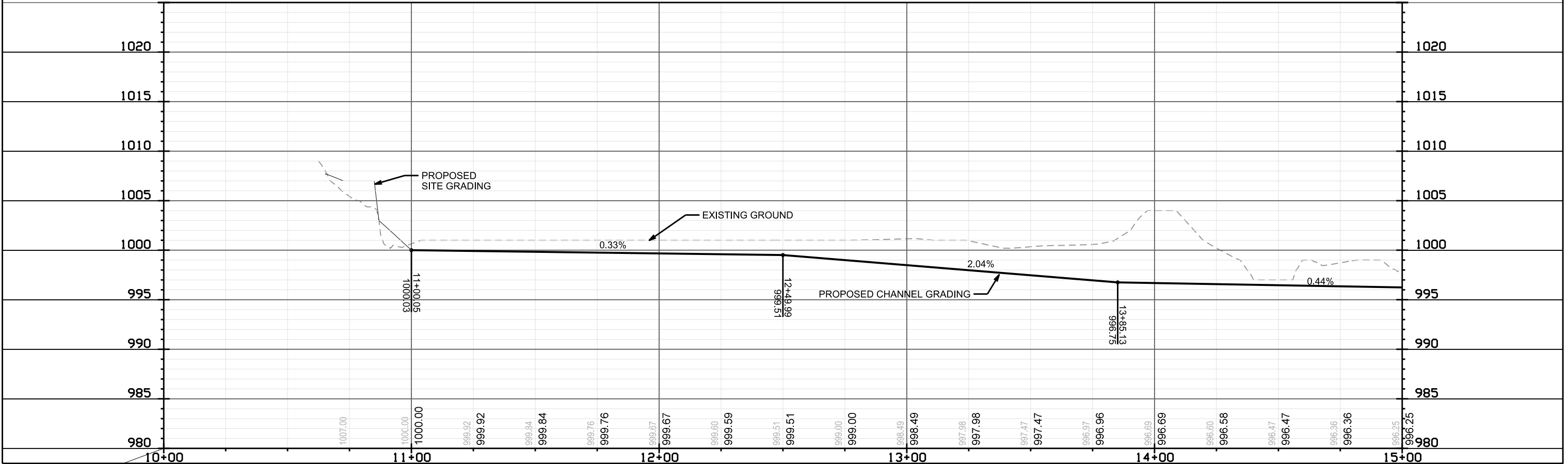
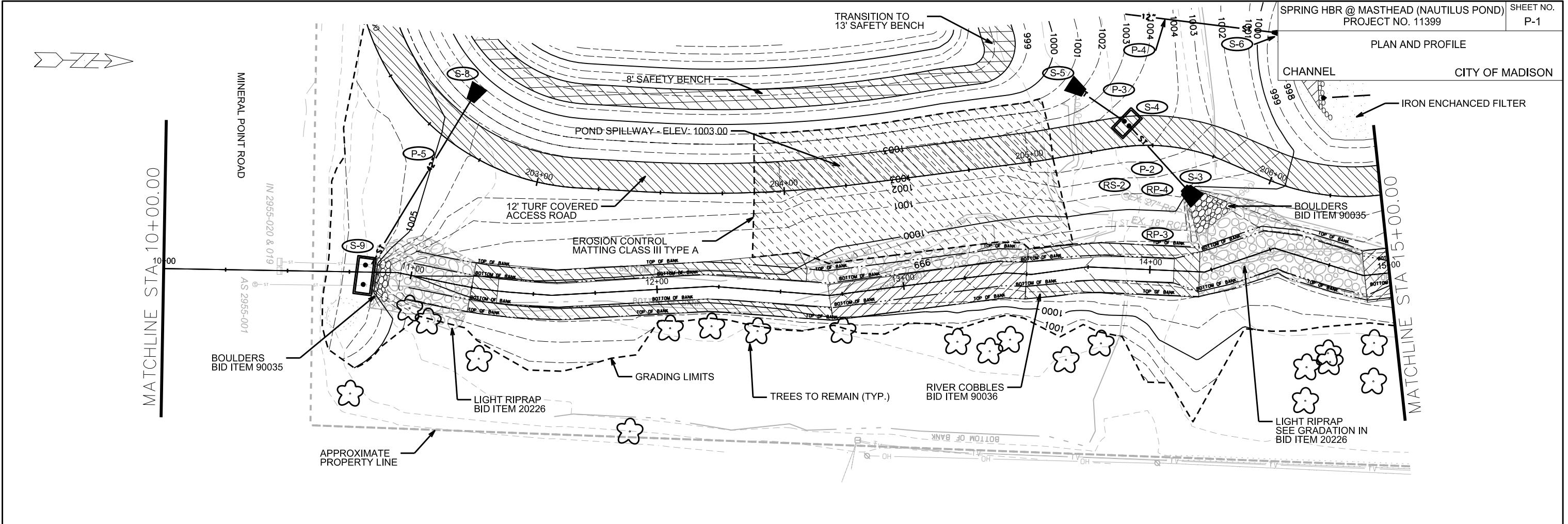
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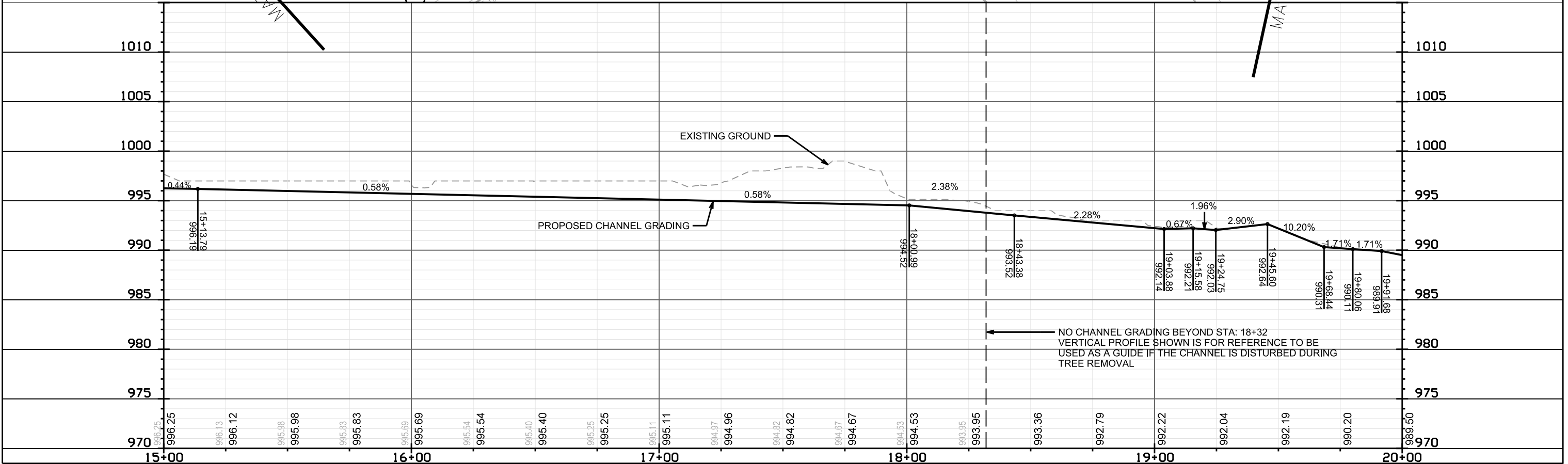
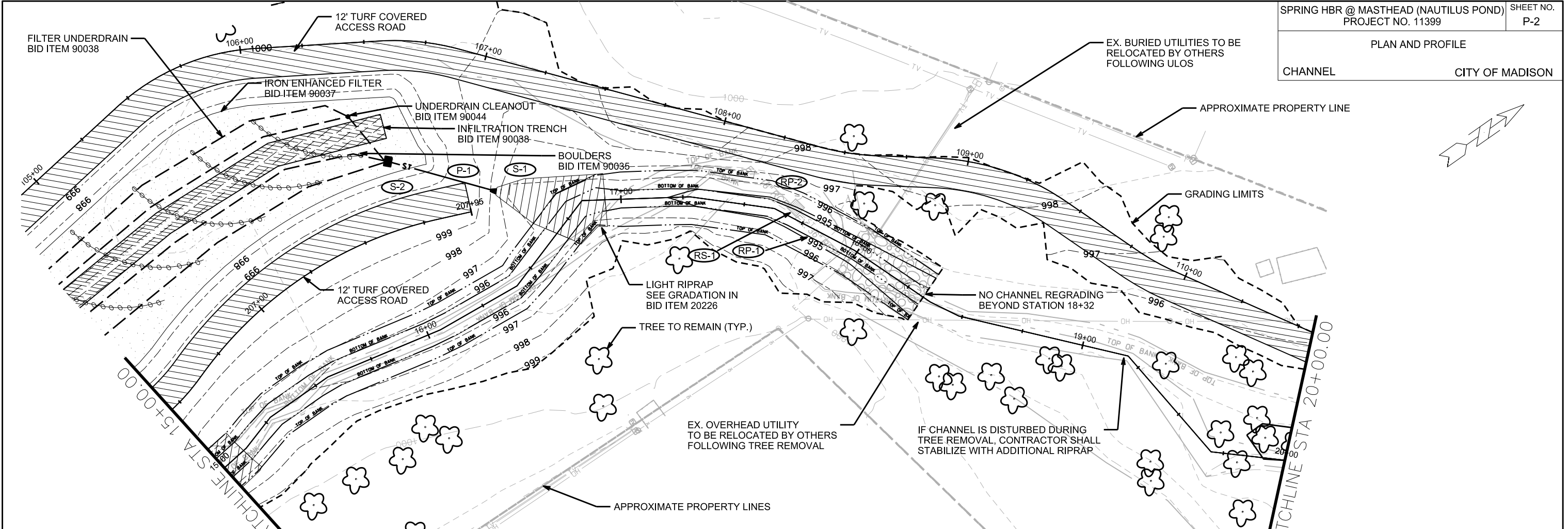
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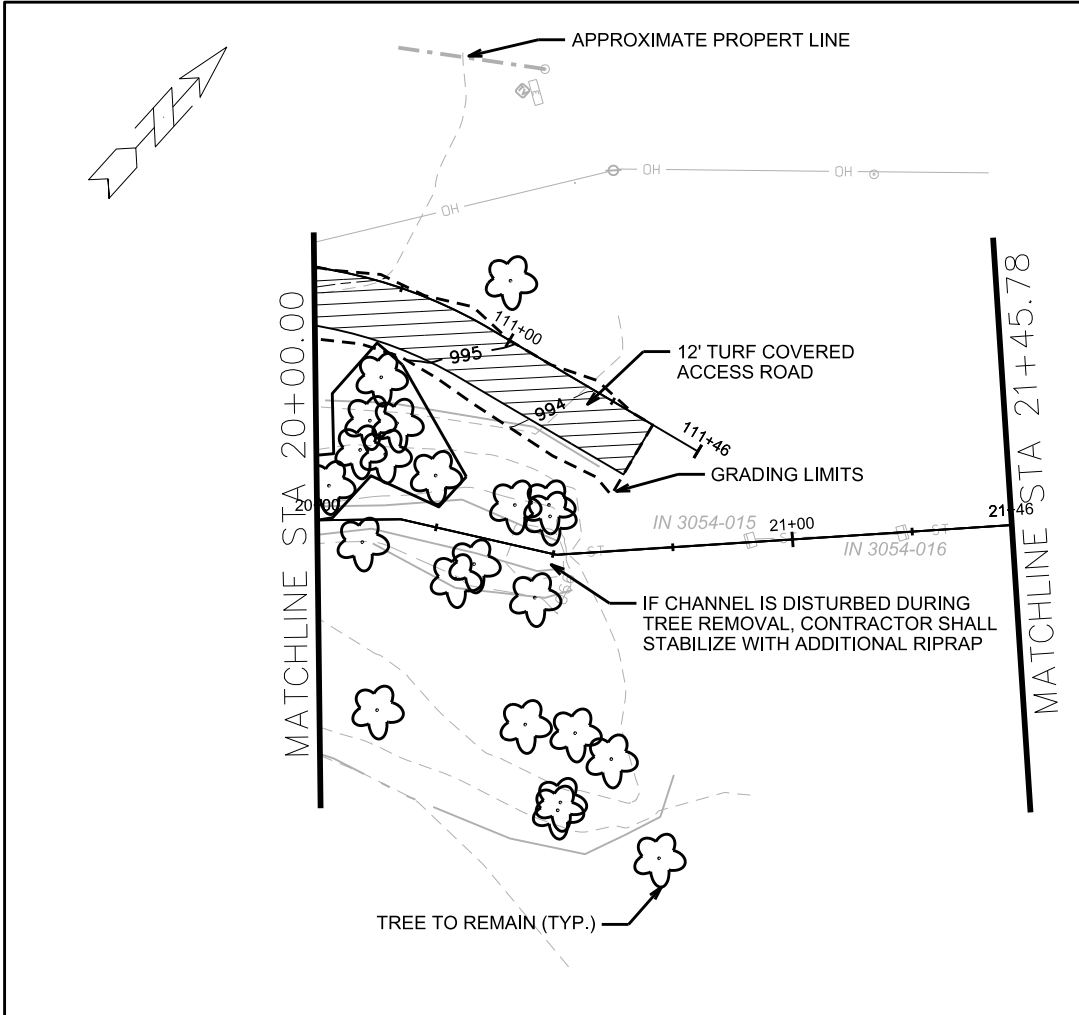
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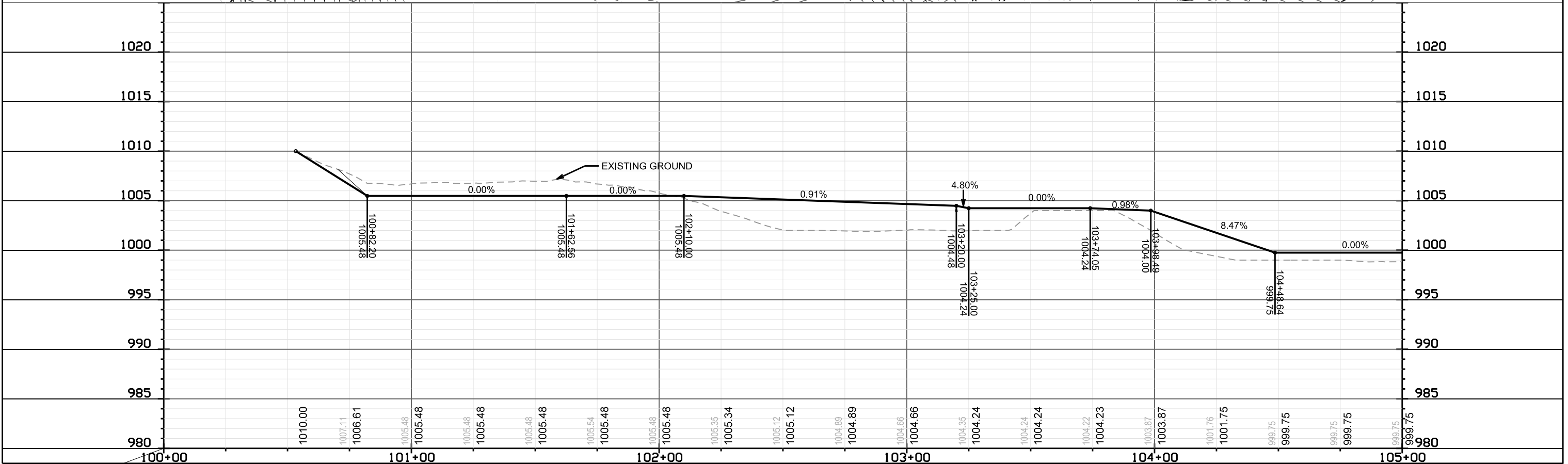
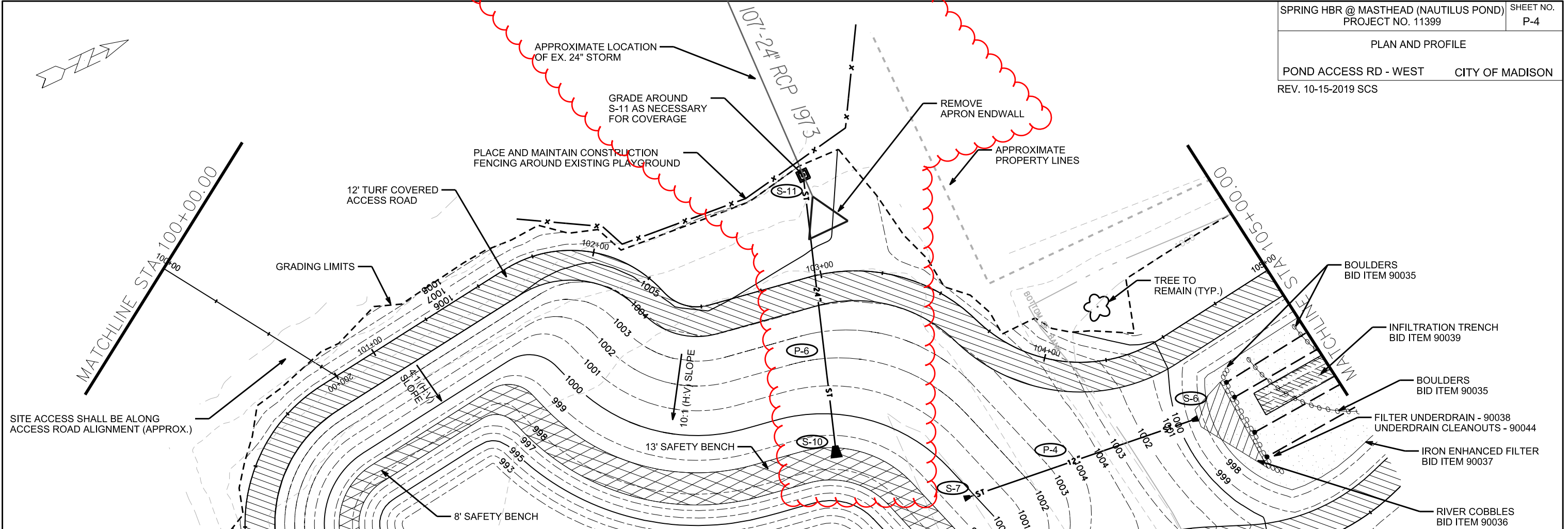


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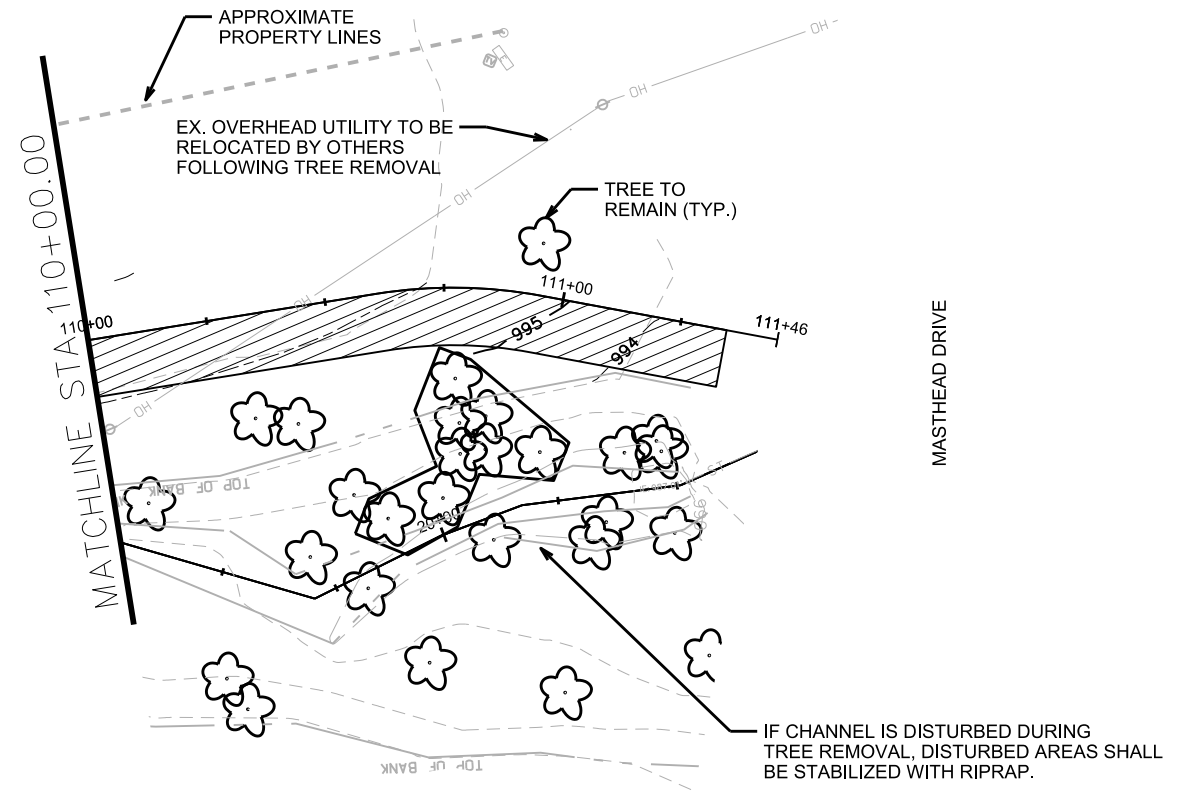
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PLOT SCALE: _____
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PLAN AND PROFILE
POND ACCESS RD - WEST CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM & SANITARY SCHEDULE

LOCATIONS LISTED ON CHANNEL ALIGNMENT

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	16+66.30	LT-29.70	12" AE W/GATE	--	995.70	--	[1]
S-2	16+20.73	LT-69.50	H INLET	999.00	996.00	3.00	W/R-1878-B7G
S-3	14+28.46	LT-28.37	48" AE W/GATE	--	996.80	--	[1]
S-4	13+88.18	LT-58.68	6X10 SAS W/WEIR	1004.00	997.10	6.90	FP, W/ R-5900-E, SHEET D-4
S-5	13+15.41	RT-73.11	48" AE W/GATE	--	848.50	--	[1], [2]
S-6	13+30.65	RT-81.47	12" AE W/GATE	--	997.50	--	[1], [3]
S-7	13+05.38	RT-84.19	12" AE W/GATE	--	998.50	--	[1]
S-8	13+20.93	RT-98.38	42" AE W/GATE	--	996.75	--	[1]
S-9	13+07.16	RT-56.54	6X14 SAS	1007.00	1000.00	7.00	FP, W/ R-5900-E, SHEET D-3
* S-10	13+32.38	LT-148.78	24" AE W/GATE	--	997.50	--	[1]
* S-11	14+37.69	LT-263.64	3X3 SAS	1006.50	1001.04	5.46	W/R-1689-0054

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
P-1	S-1	S-2	995.70	996.00	46	44.5	0.67%	12"	TYPE I	-
P-2	S-3	S-4	996.80	997.10	42	39.5	0.76%	48"	TYPE I	-
P-3	S-4	S-5	998.50	998.50	29	26	0.00%	48"	TYPE I	-
P-4	S-6	S-7	997.50	998.50	100	99.8	1.00%	12"	TYPE I	-
P-5	S-8	S-9	996.75	1000.00	90	84.3	3.86%	42"	TYPE I	-
* P-6	S-10	S-11	997.50	1001.04	115	108.3	3.27%	24"	TYPE I	-

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	NA	17+69.78	LT-4.29	3X3 SAS	
RS-2	NA	13+89.26	LT-29.61	CUSTOM SAS	

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	EX OUTFALL	RS-1	24	36"	RCP	Y	-
RP-2	RS-1	EX OUTFALL	14	18"	RCP	Y	-
RP-3	EX OUTFALL	EX OUTFALL	45	18"	RCP	Y	-
RP-4	EX OUTFALL	RS-2	37	27"	RCP	Y	-

ULOS

ULO NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO1	NA	18+02.10	LT-43.08	ELEC & TV	

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.

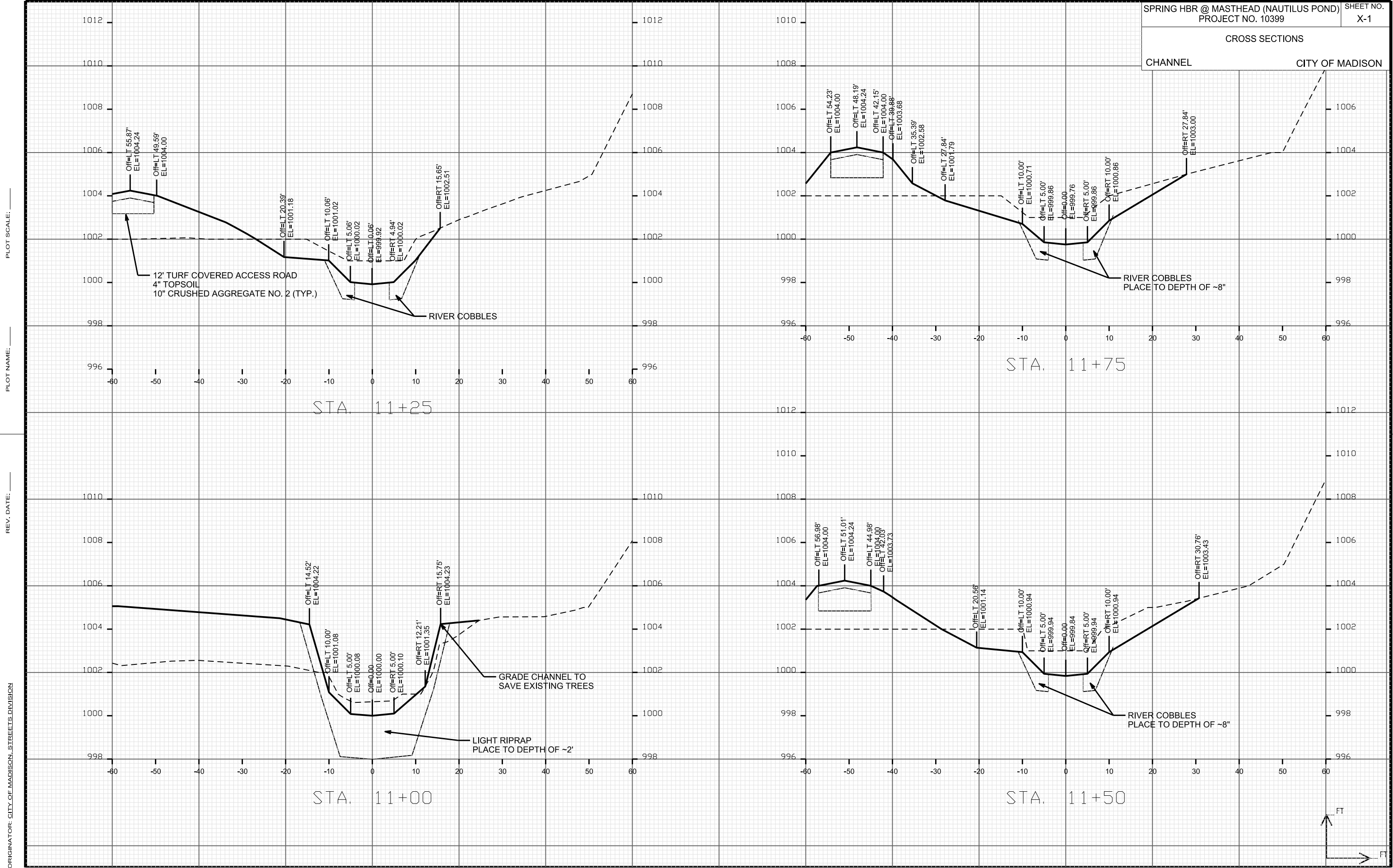
SPECIFIC NOTES

- [1] STATION, OFFSET, & ELEVATION TO DOWNSTREAM EDGE, CENTER OF APRON
- [2] STATION AND OFFSET APPROXIMATE DUE TO ALIGNMENT VERTICIES, S-5 LOCATION 478136.5189, 793359.5267
- [3] STATION AND OFFSET APPROXIMATE DUE TO ALIGNMENT VERTICIES, S-6 LOCATION 478220.7517, 793337.8143

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 SALLY SWENSON OF CITY ENGINEERING AT (608) 266-4862 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO SSWENSON@CITYOFMADISON.COM.

CROSS SECTIONS
 CHANNEL CITY OF MADISON

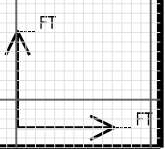


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



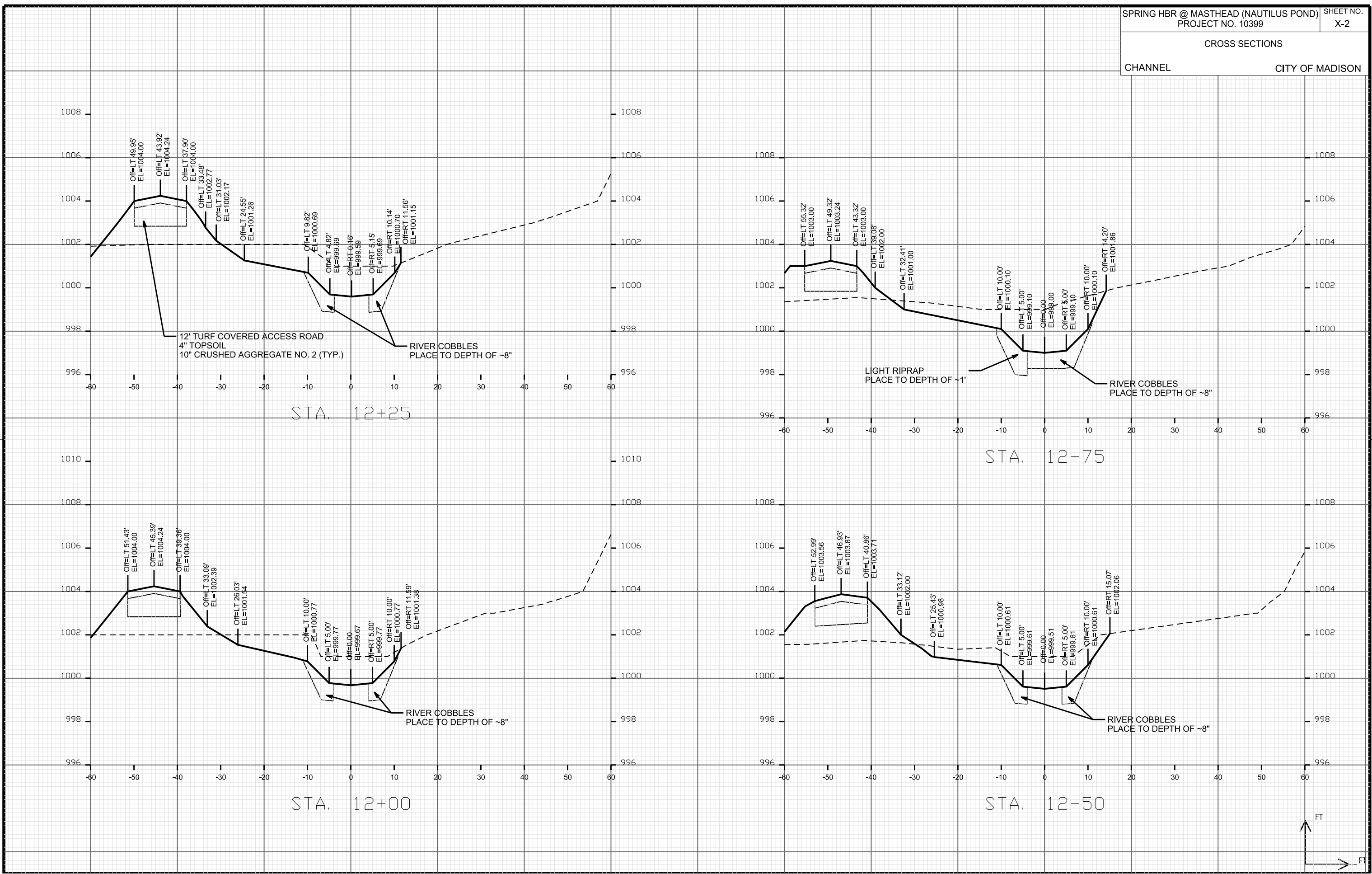
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CROSS SECTIONS

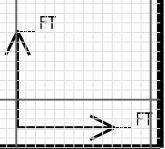
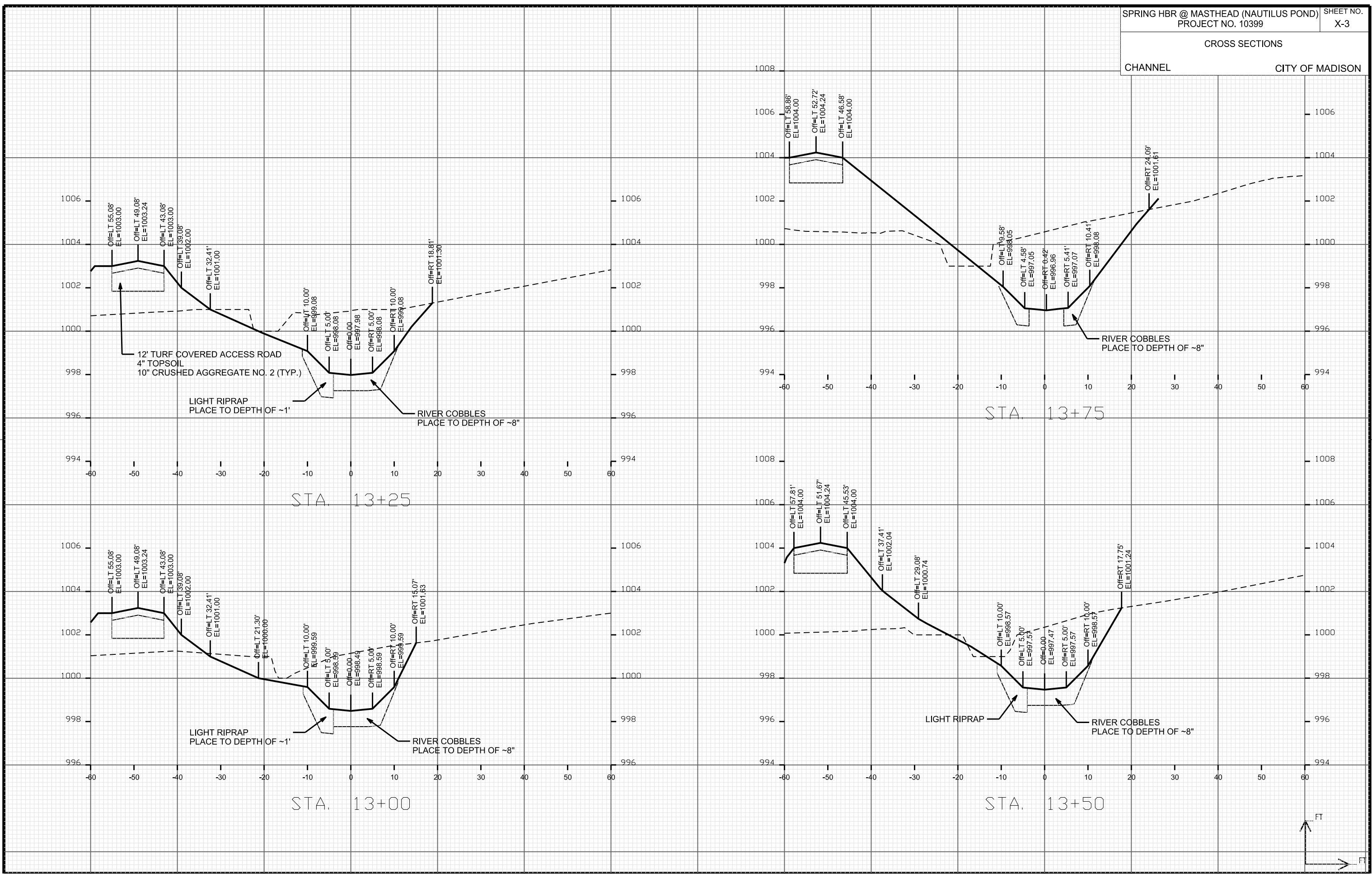
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CROSS SECTIONS

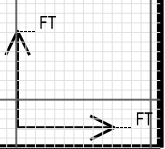
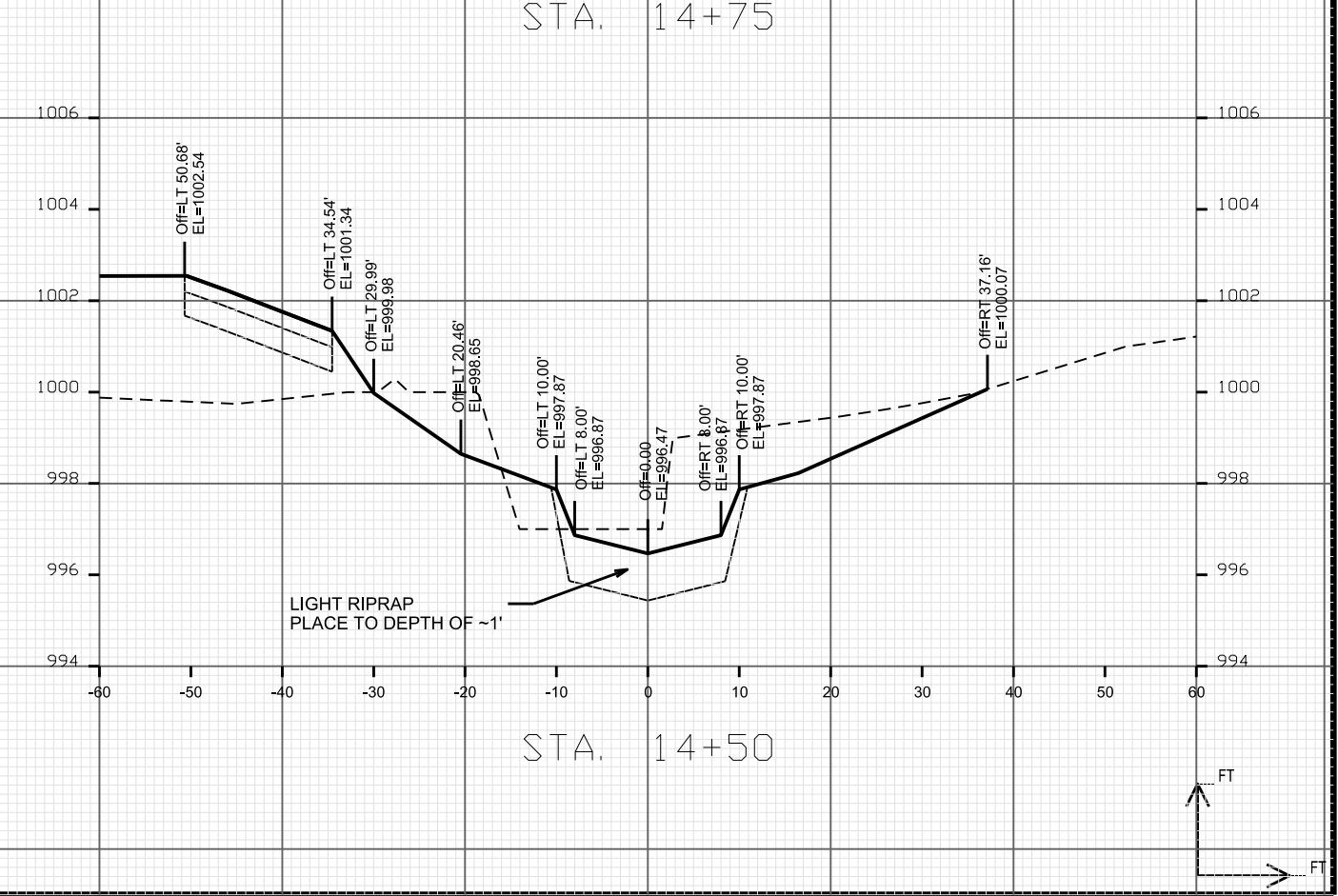
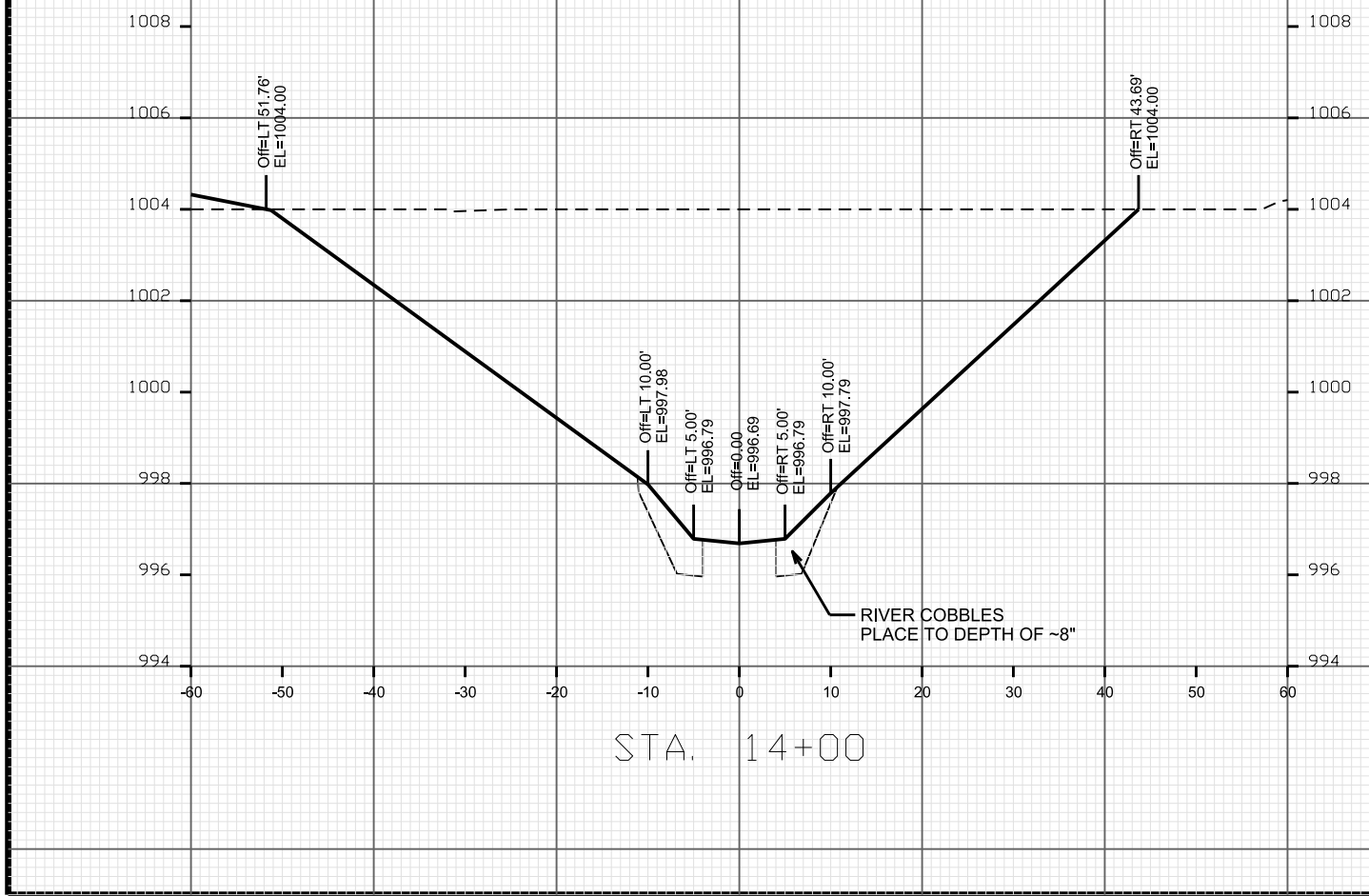
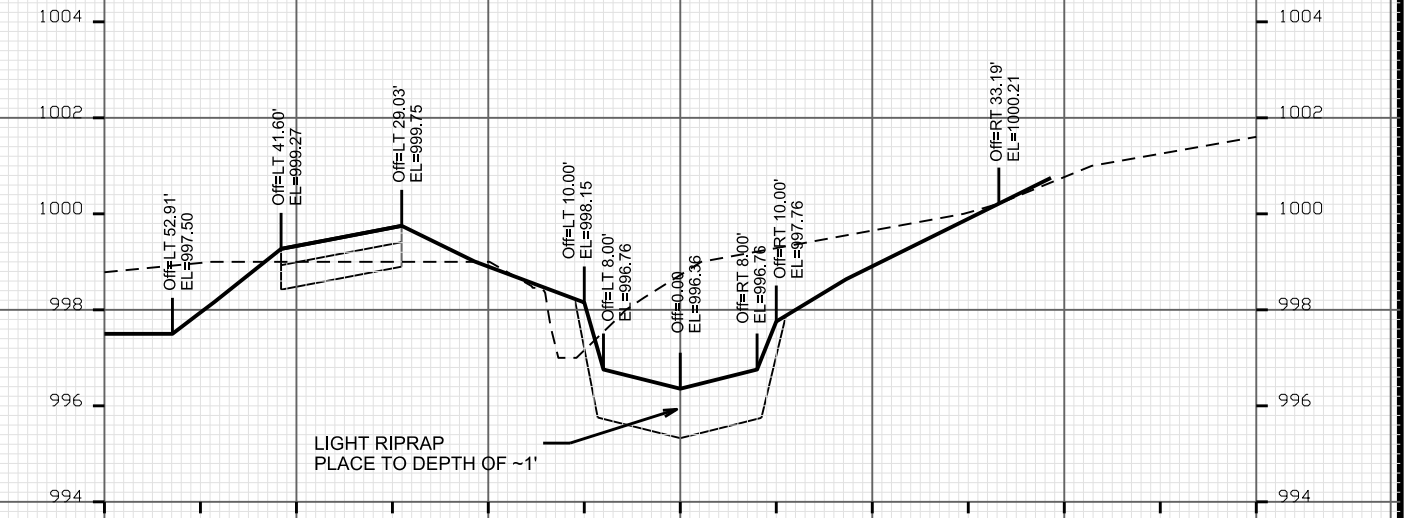
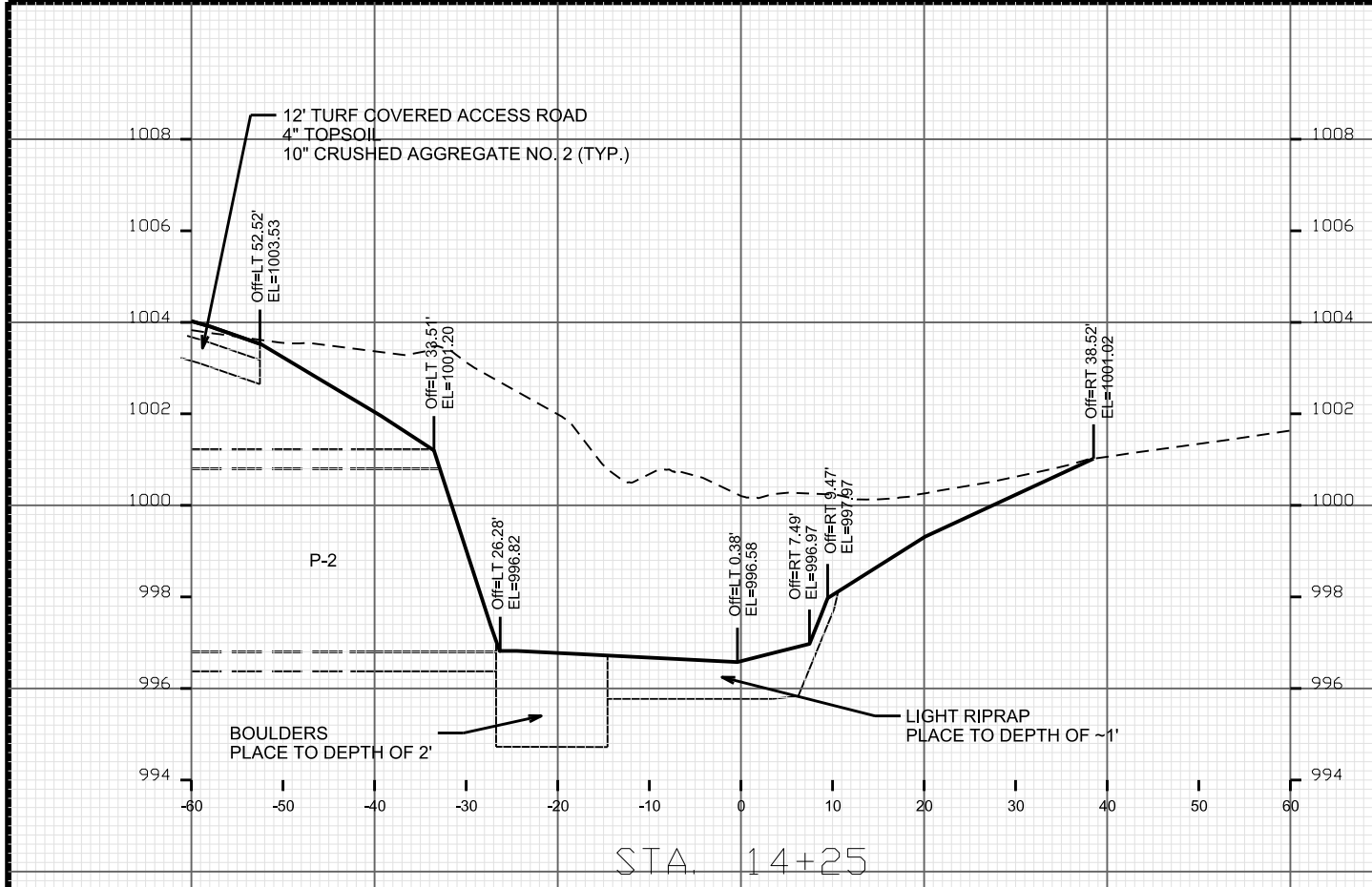
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CROSS SECTIONS

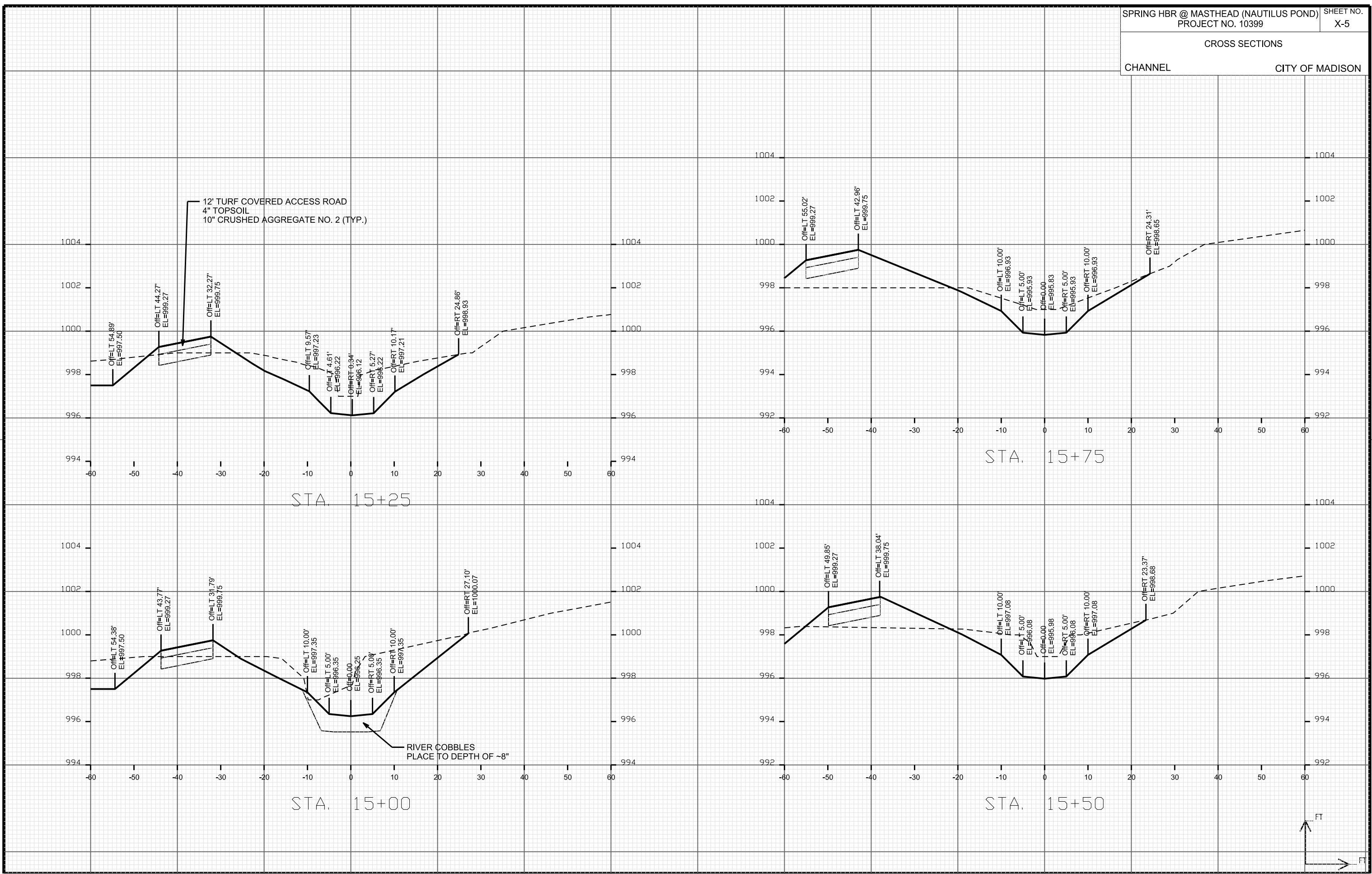
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CROSS SECTIONS

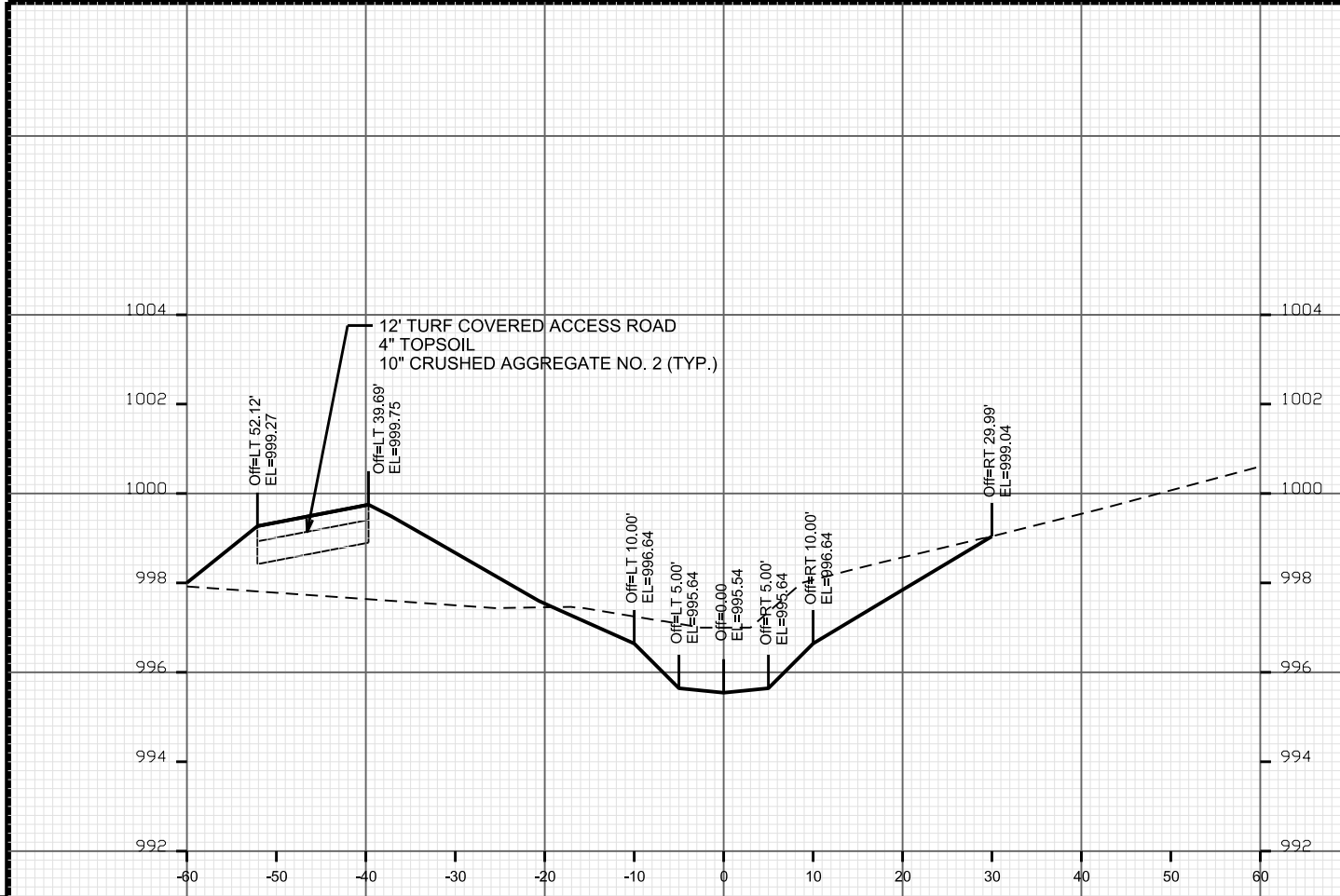
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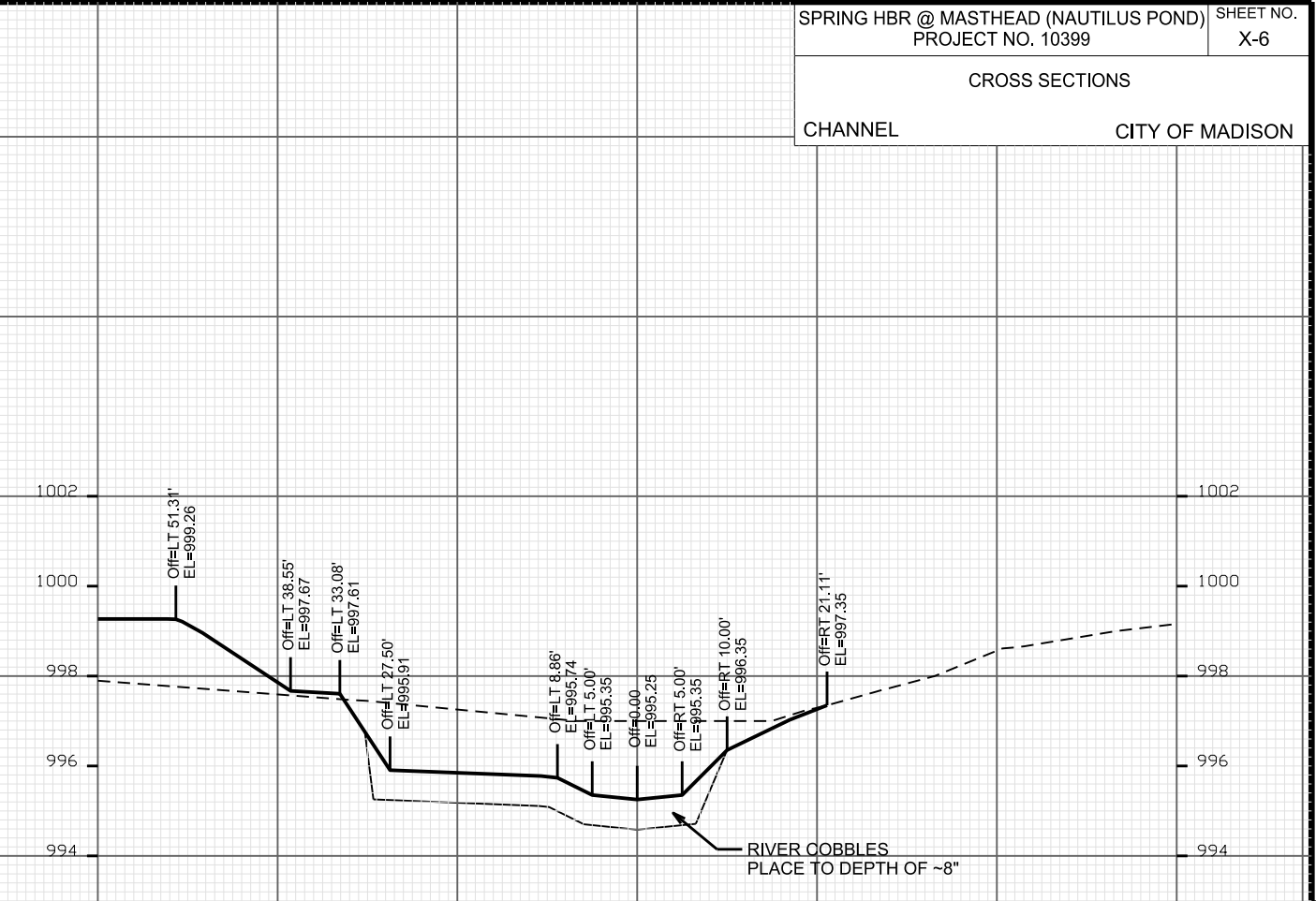
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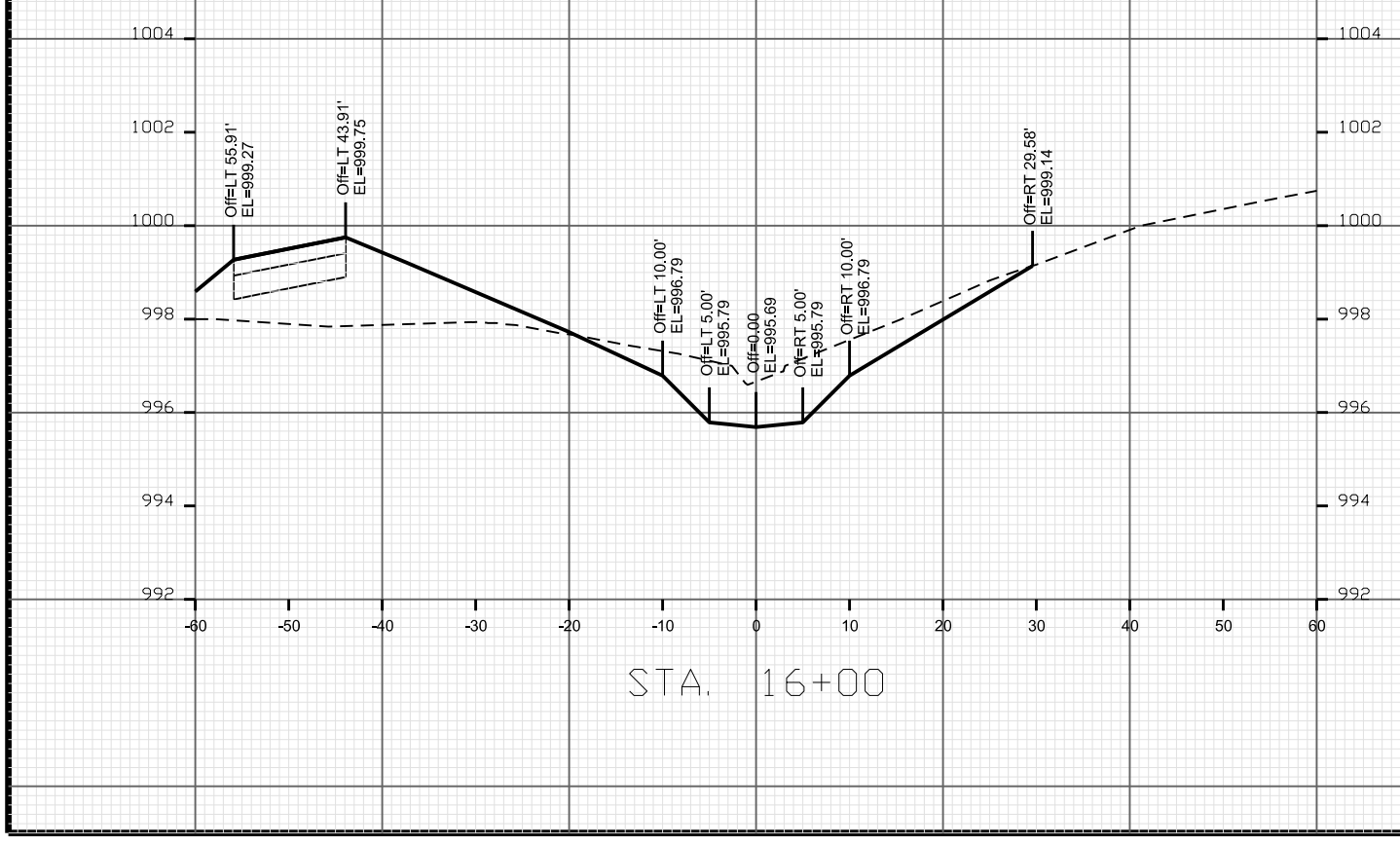
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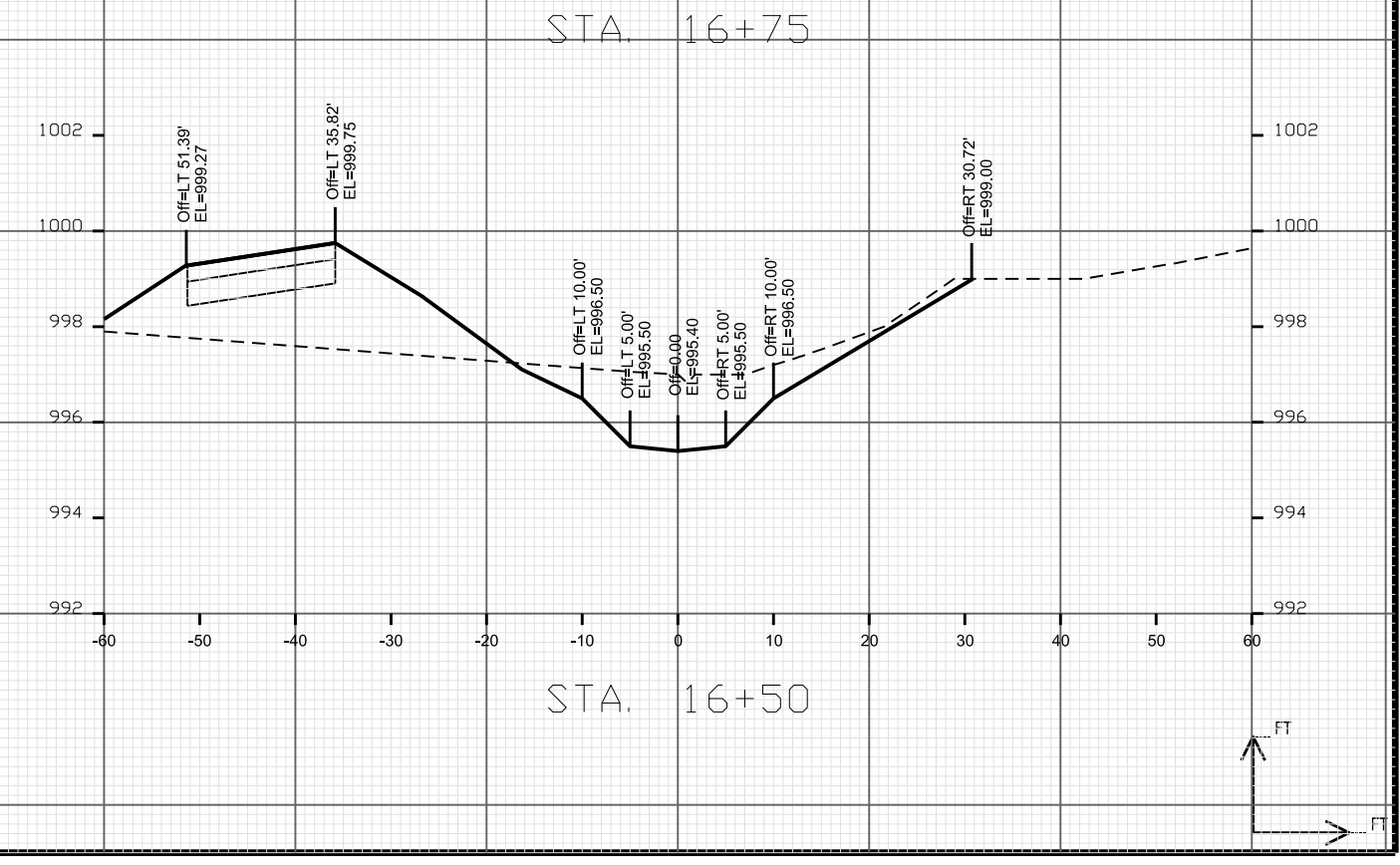
STA. 16+25



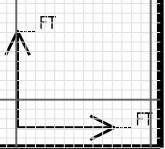
STA. 16+75



STA. 16+00



STA. 16+50



CROSS SECTIONS

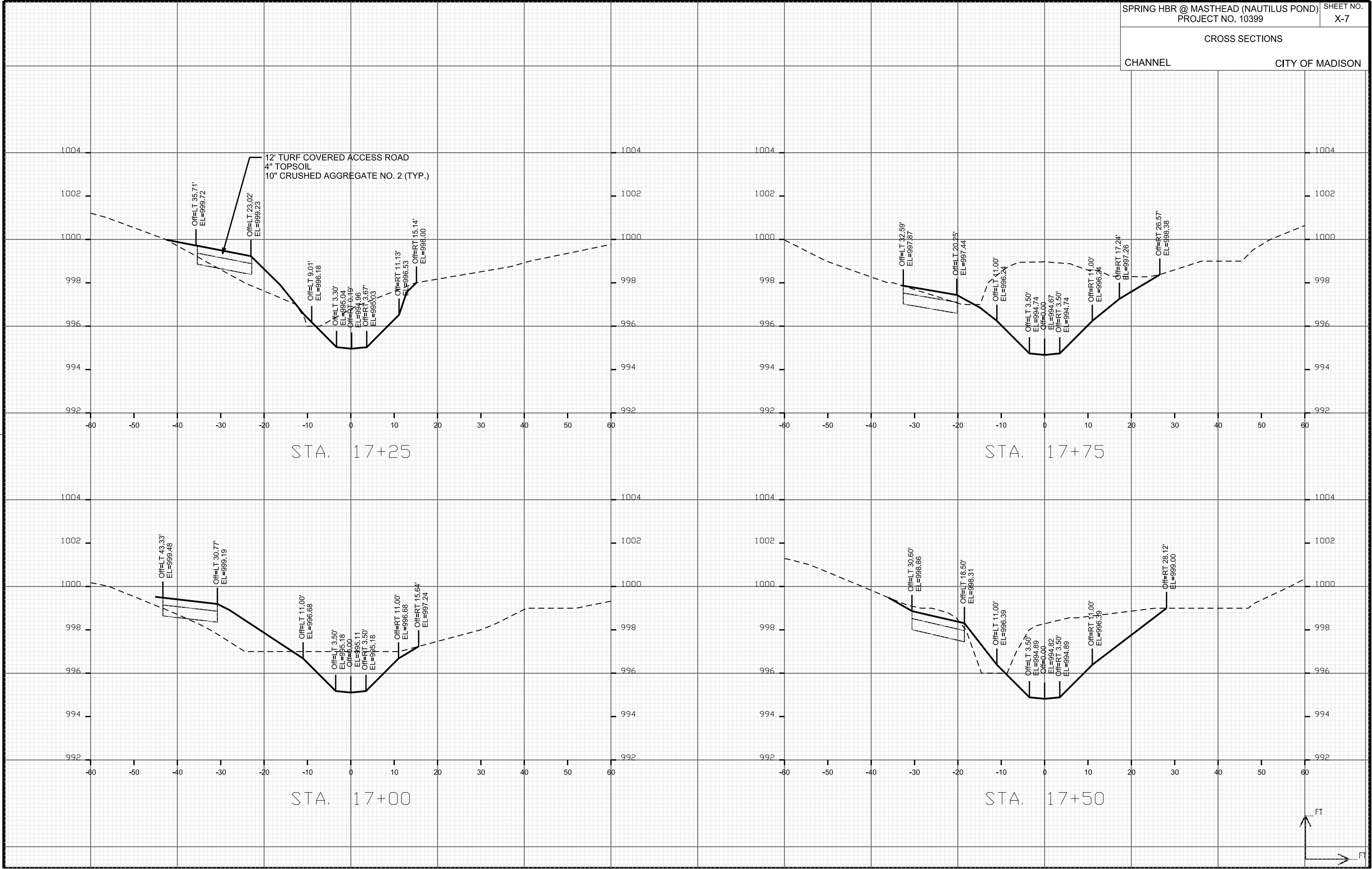
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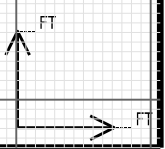
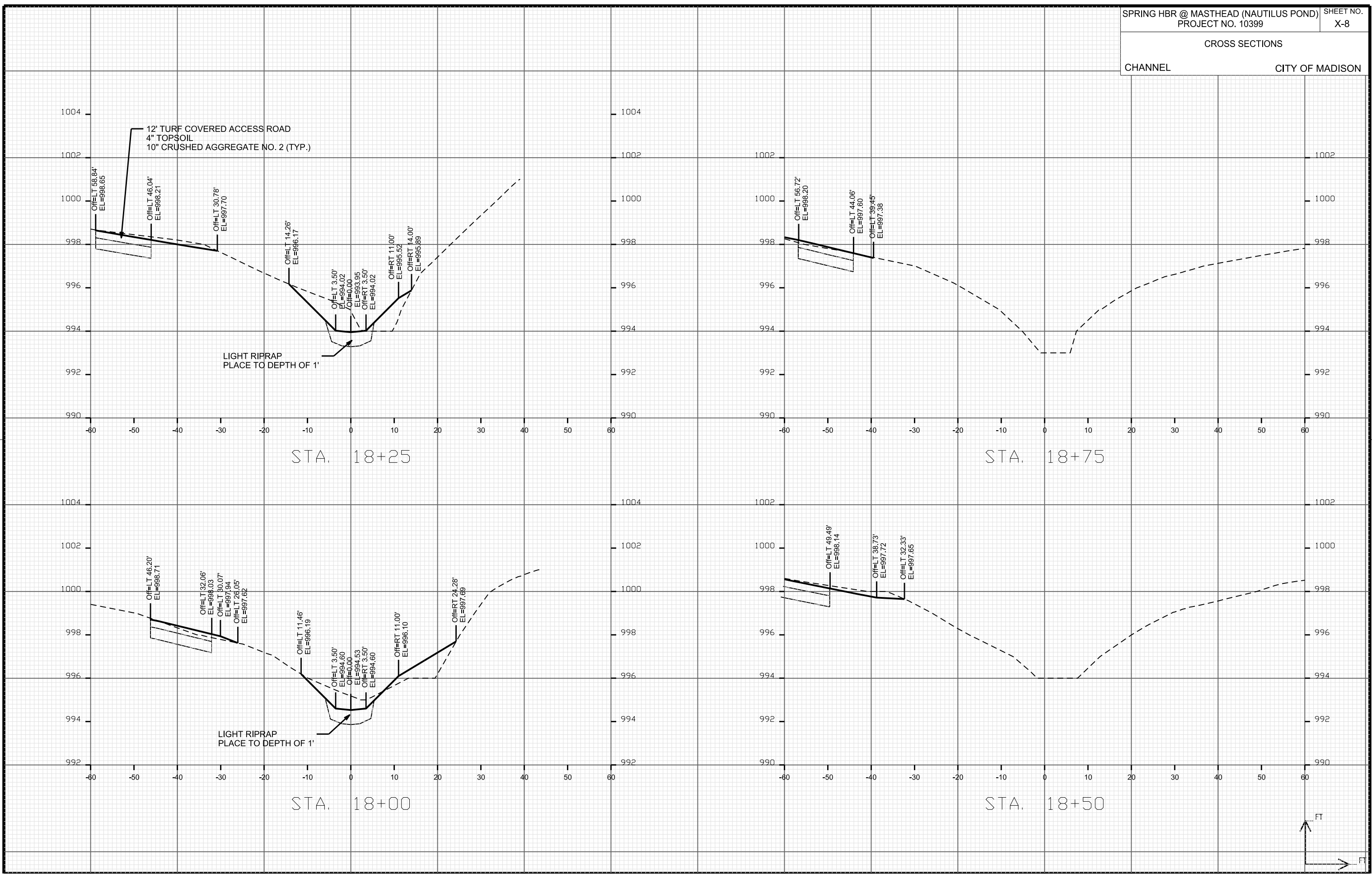
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 CHANNEL CITY OF MADISON

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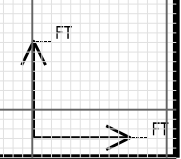
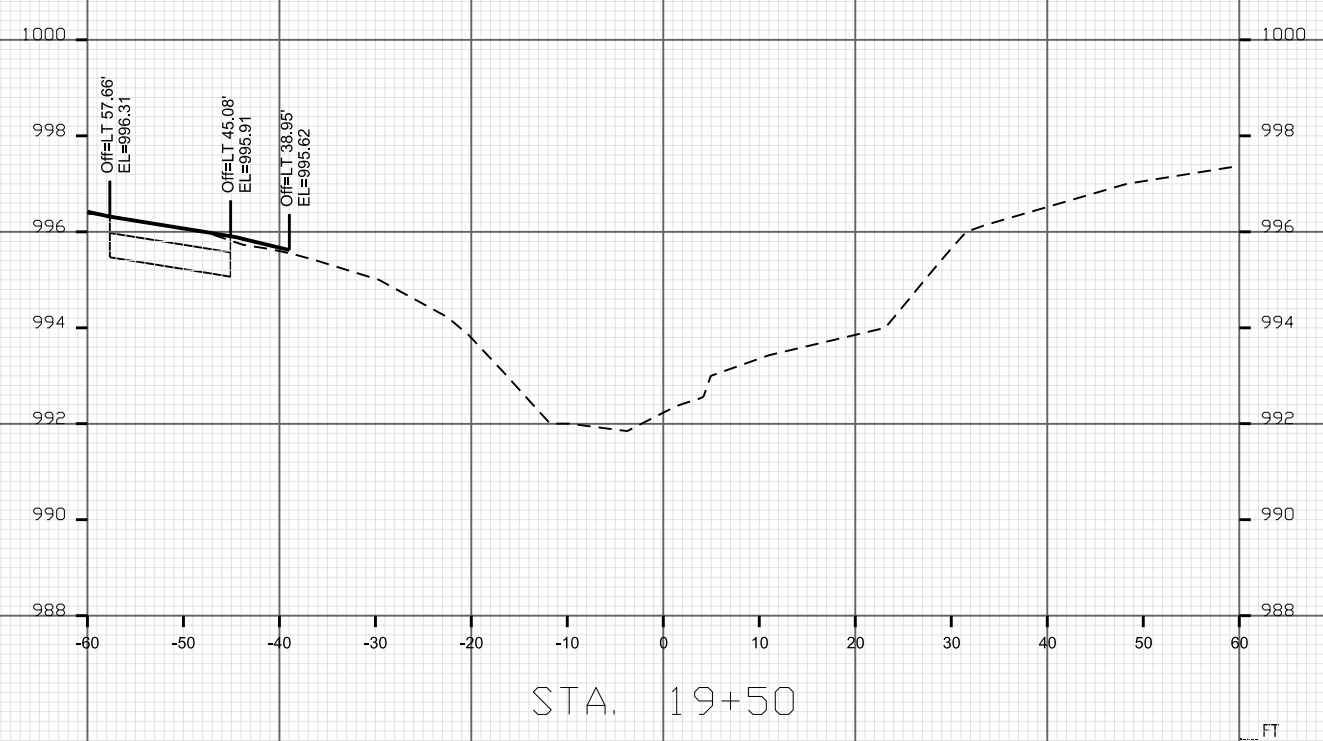
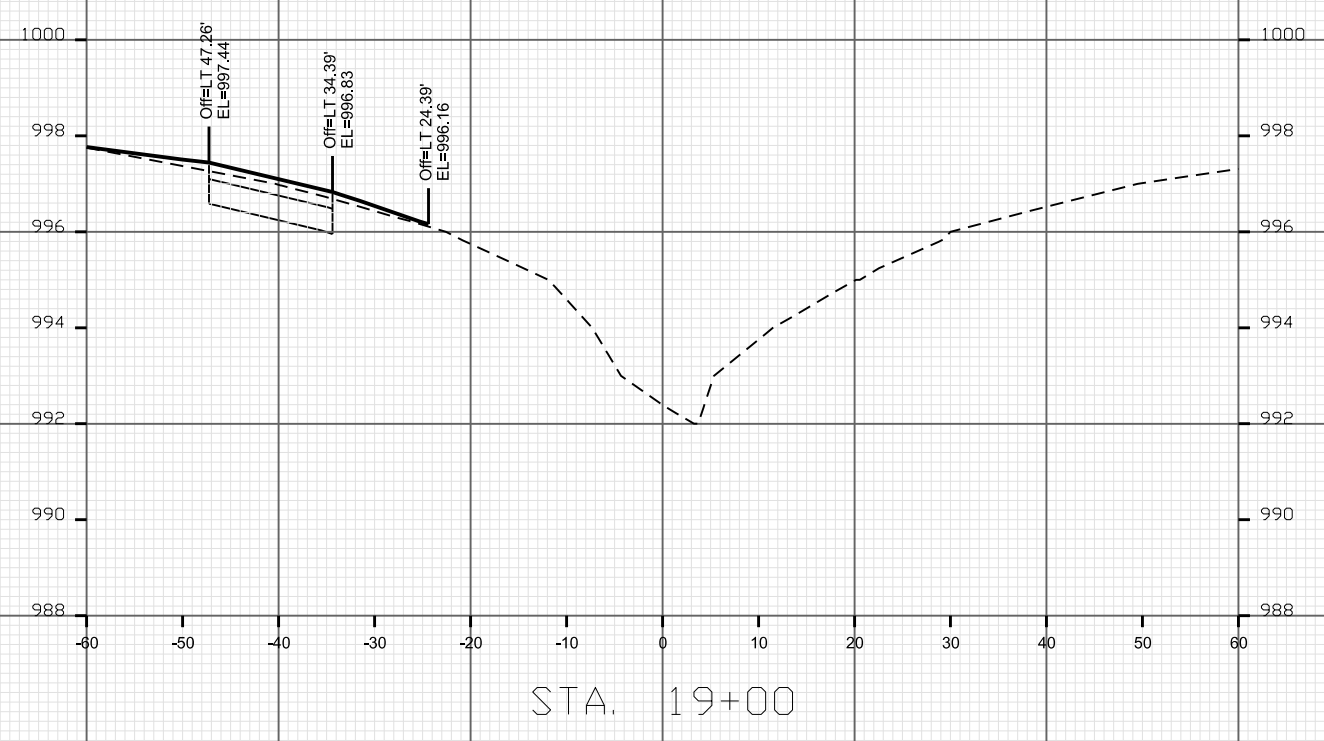
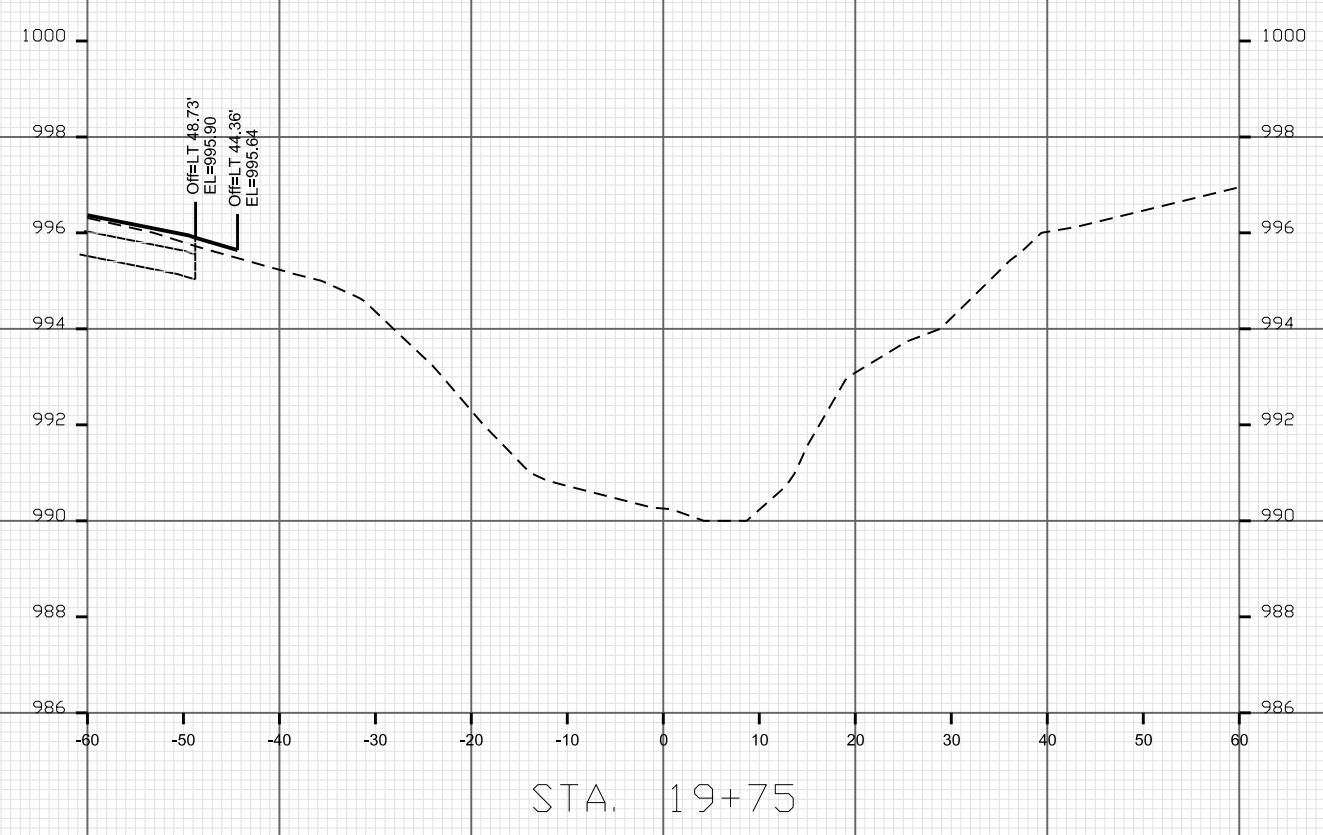
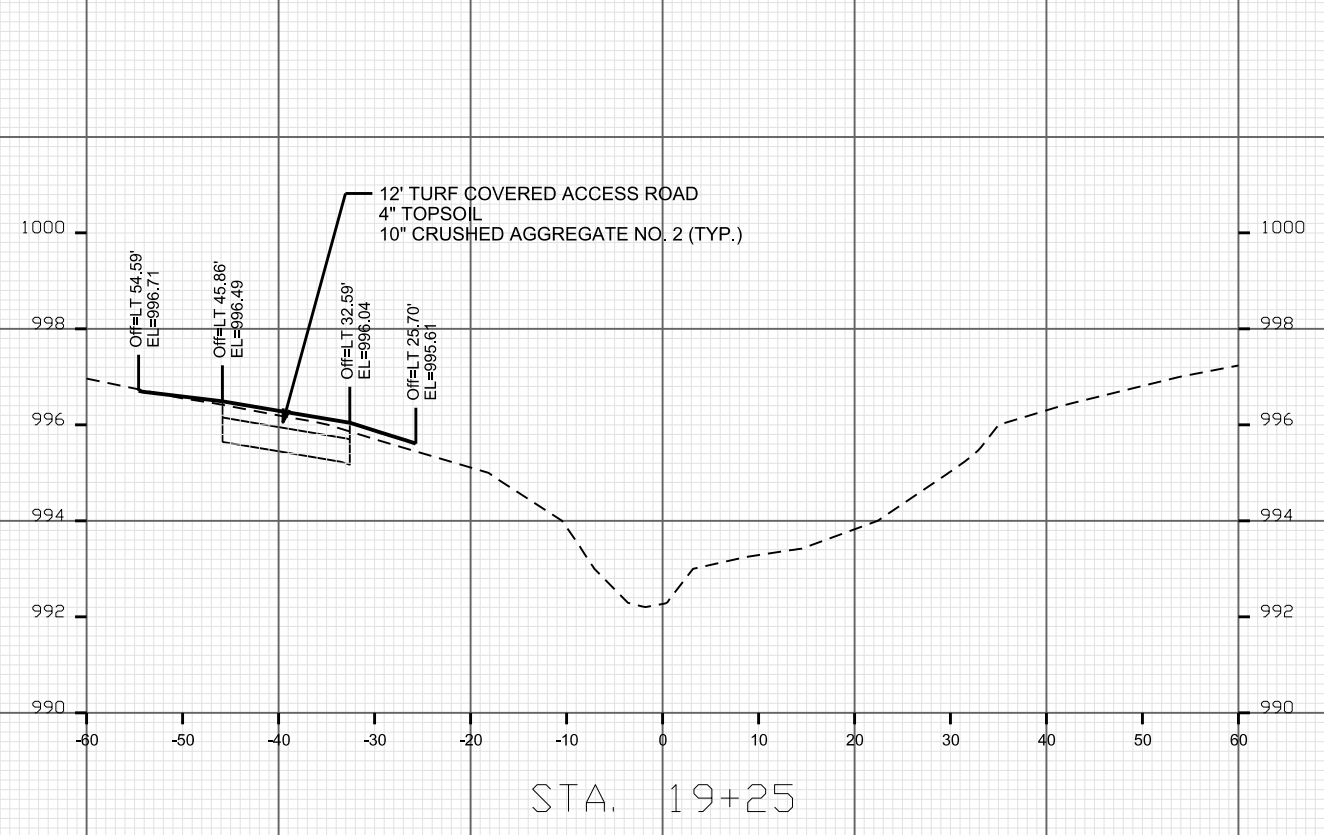
CROSS SECTIONS
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CROSS SECTIONS

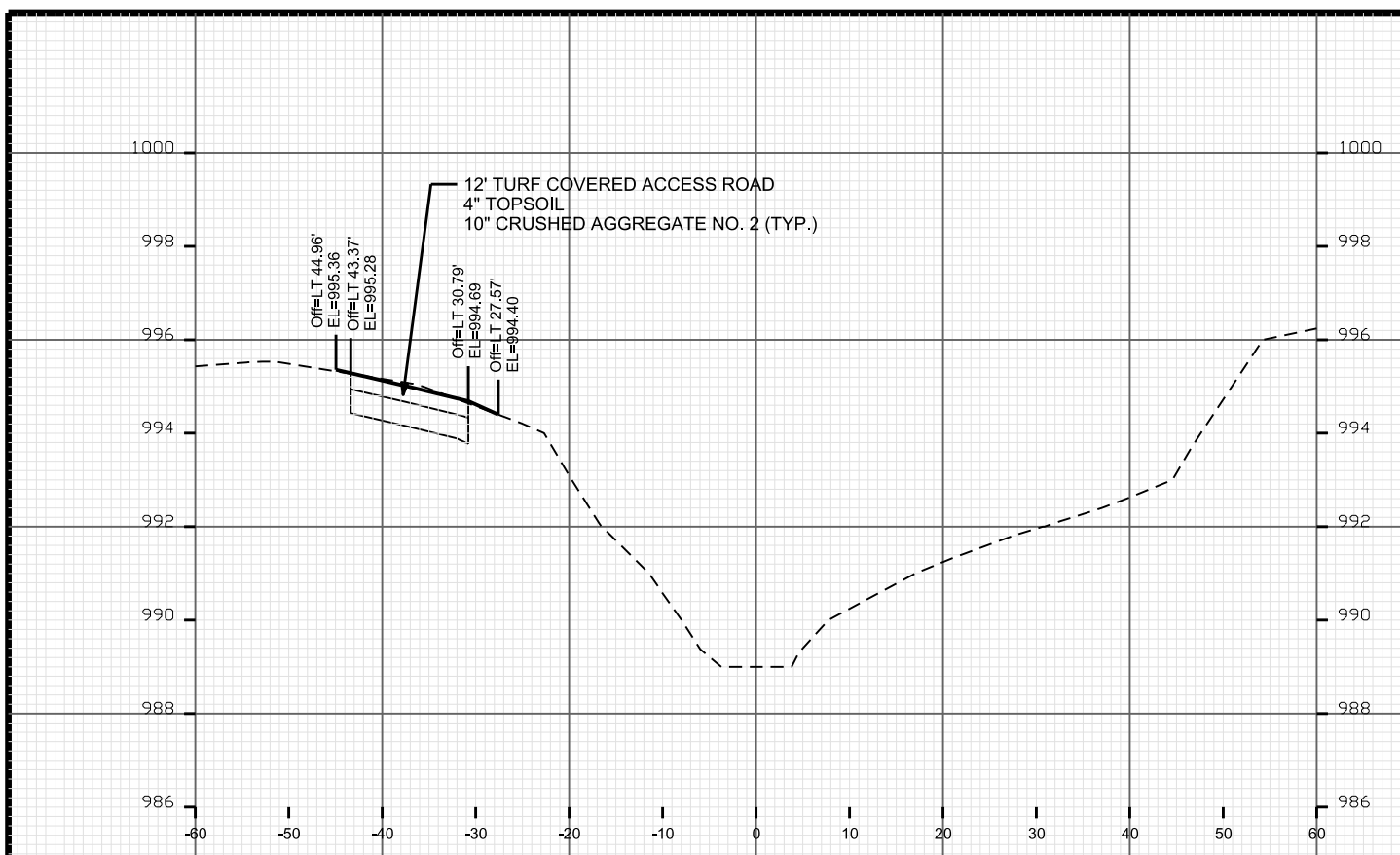
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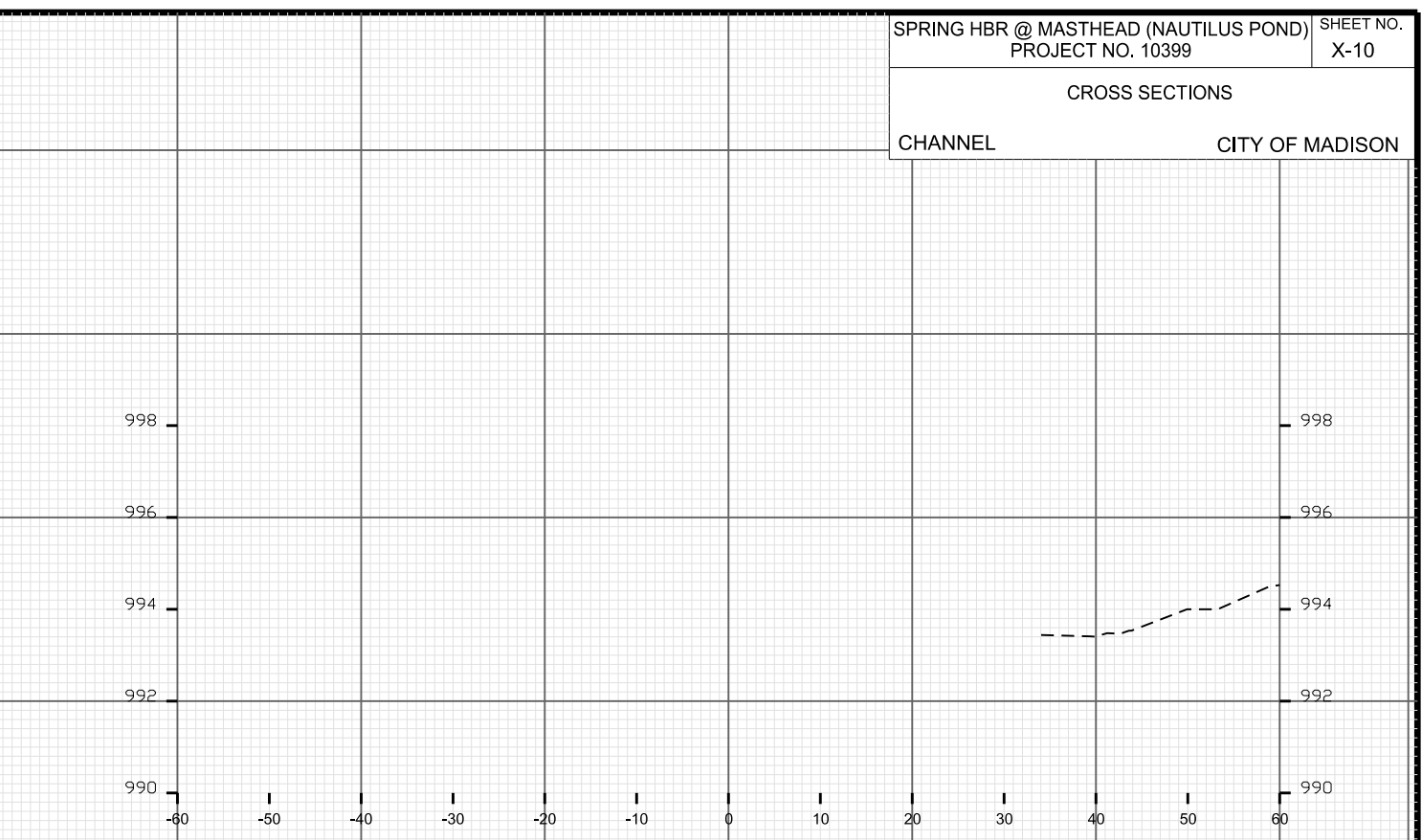
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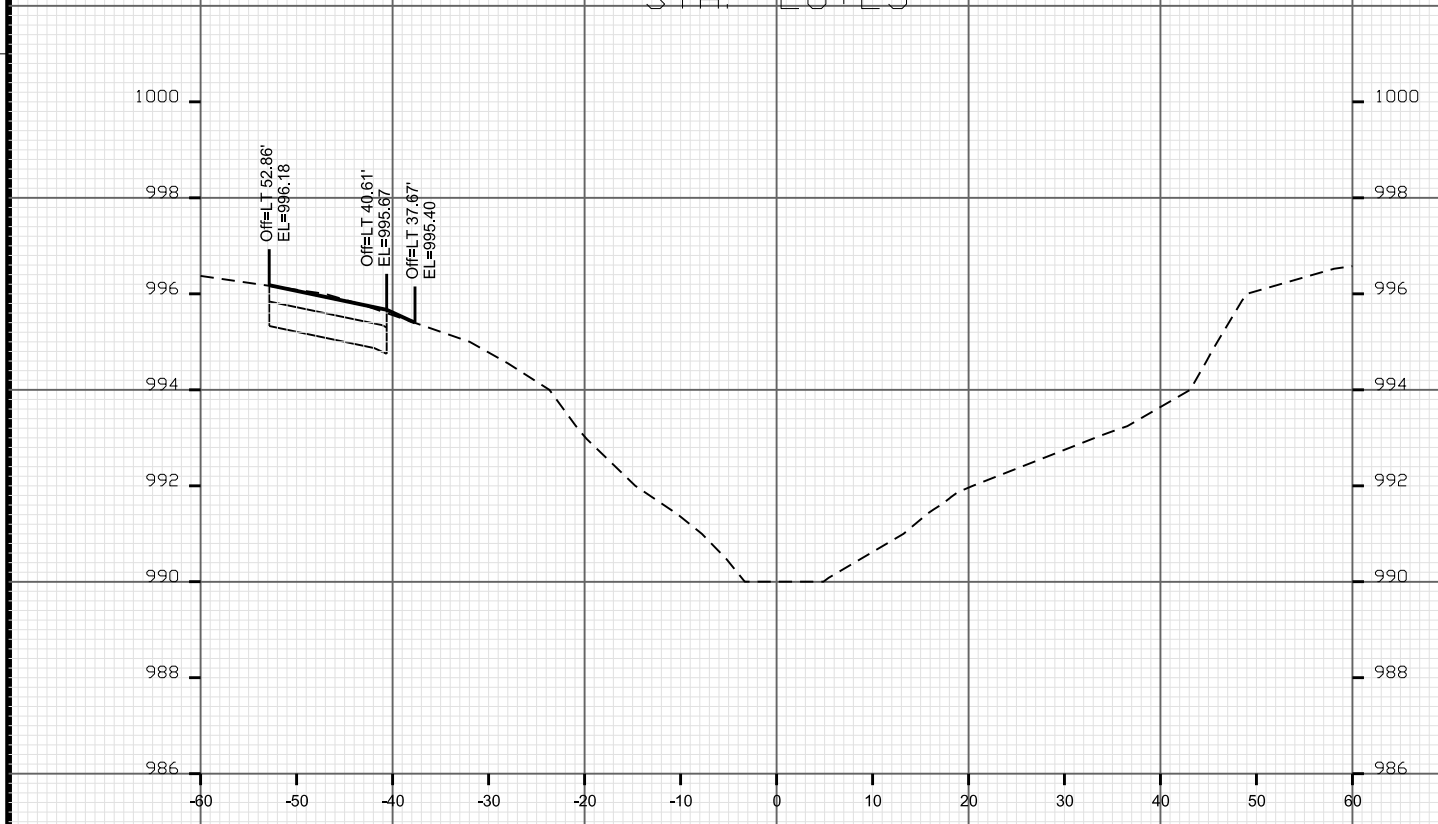
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



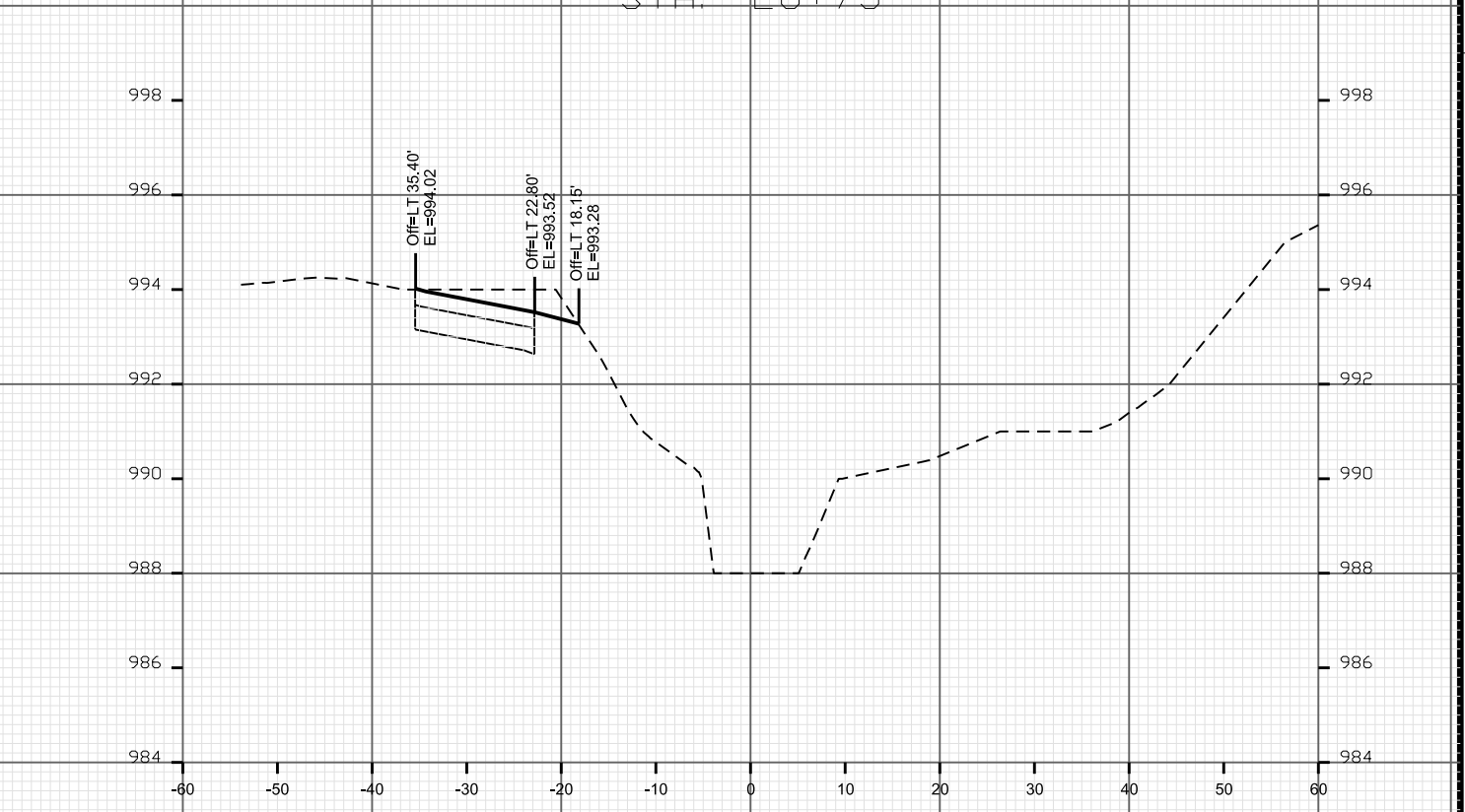
STA. 20+25



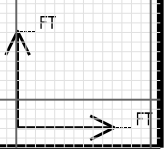
STA. 20+75



STA. 20+00



STA. 20+50



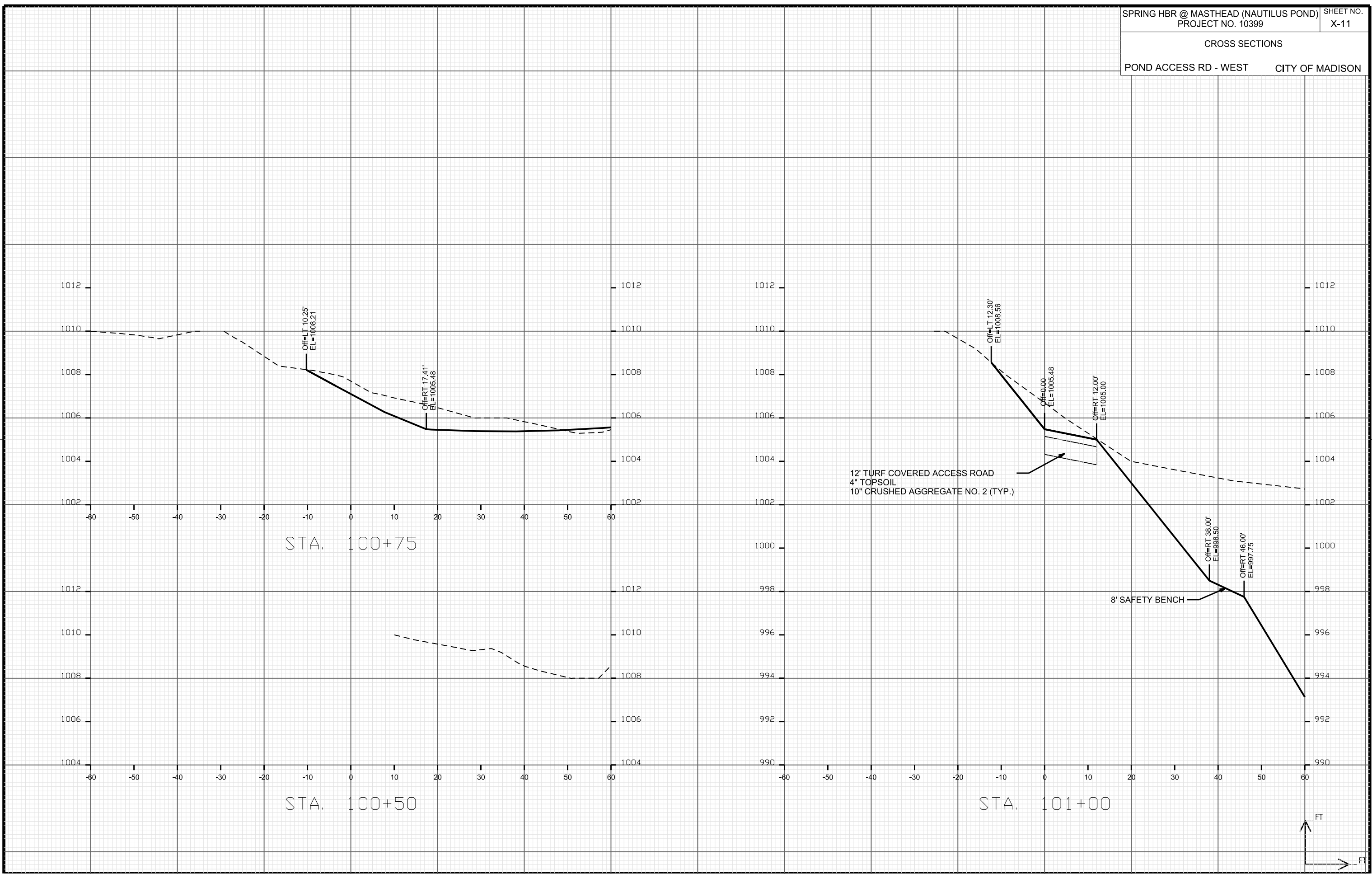
CROSS SECTIONS
 POND ACCESS RD - WEST CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

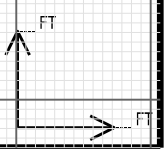
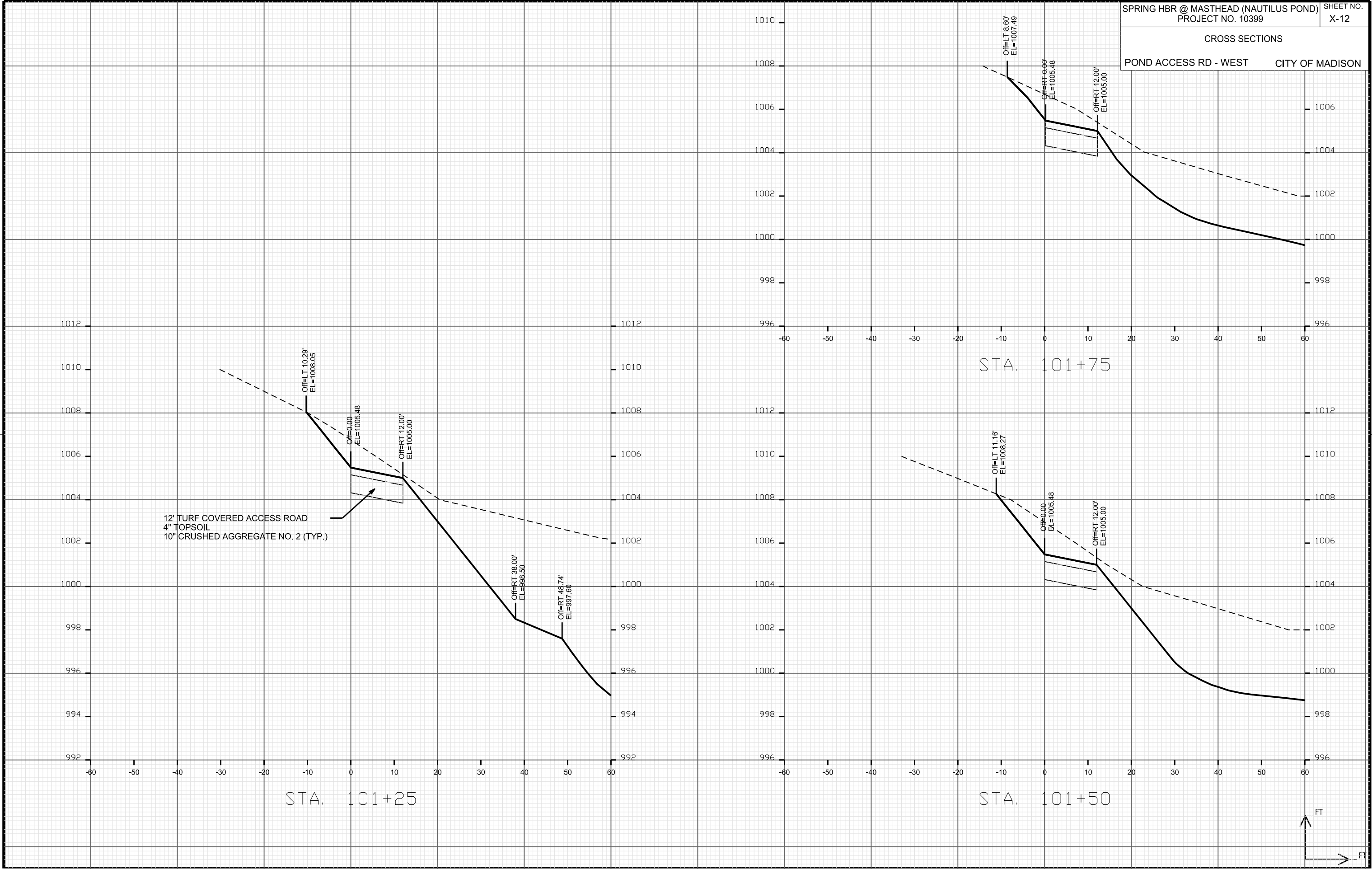
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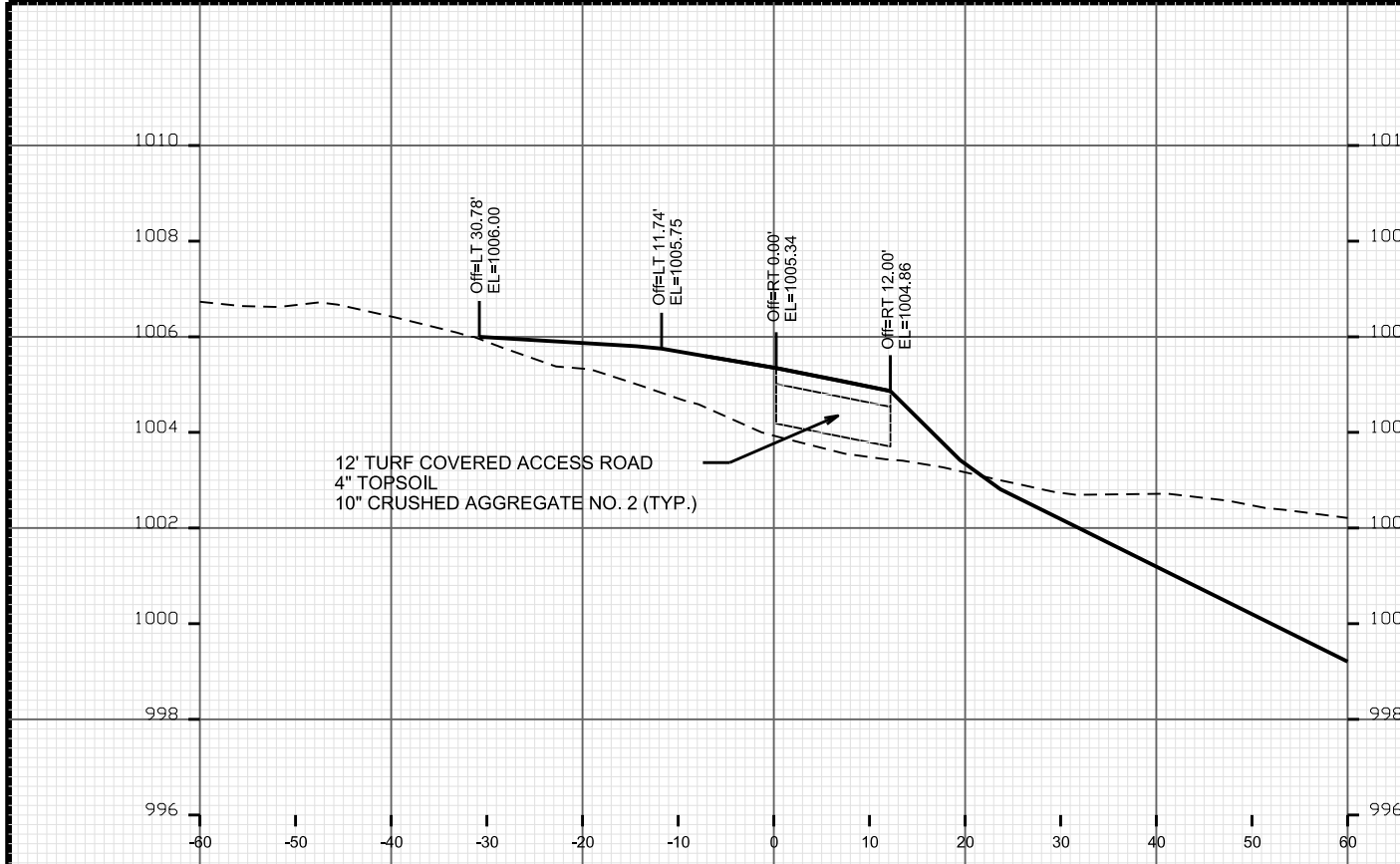
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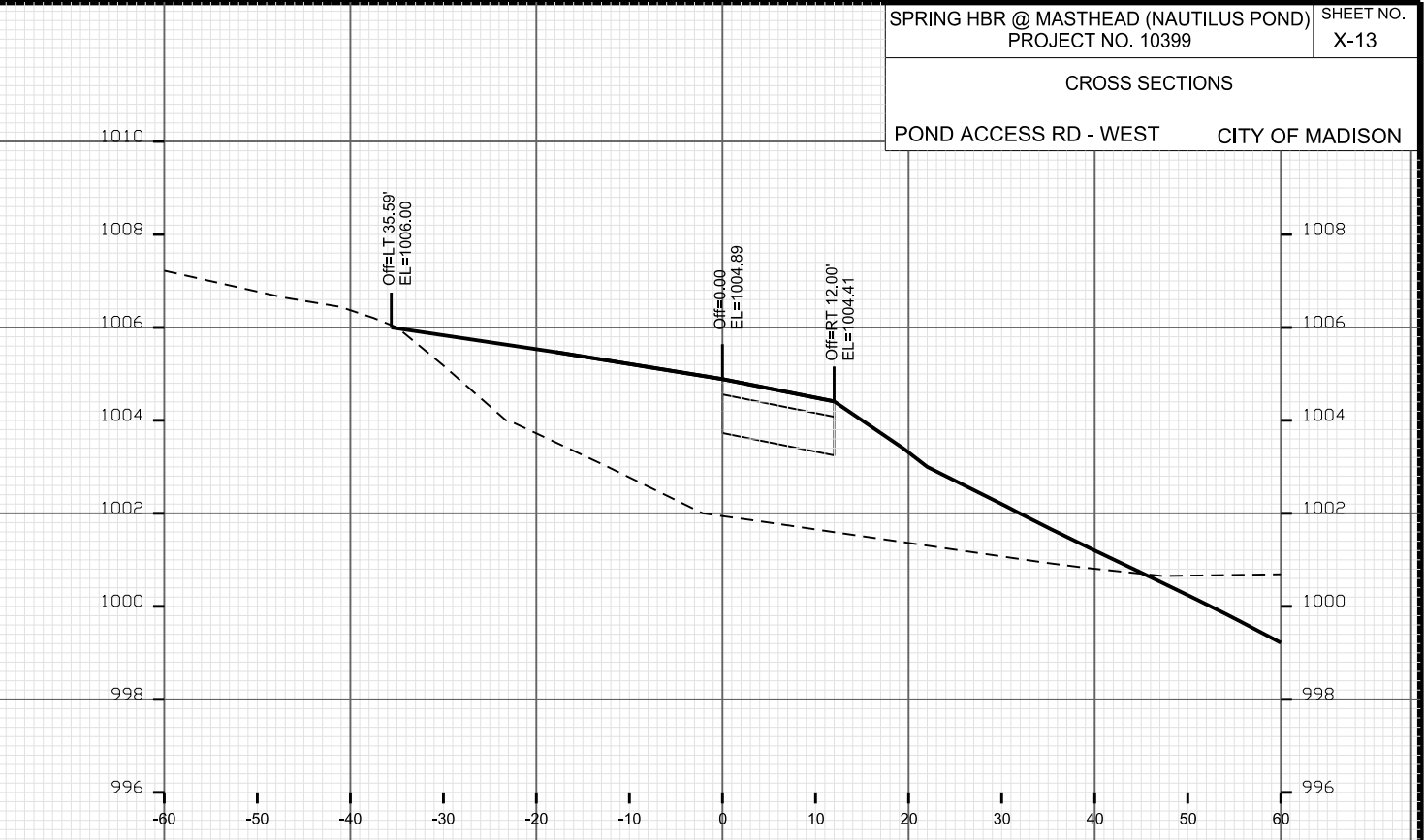
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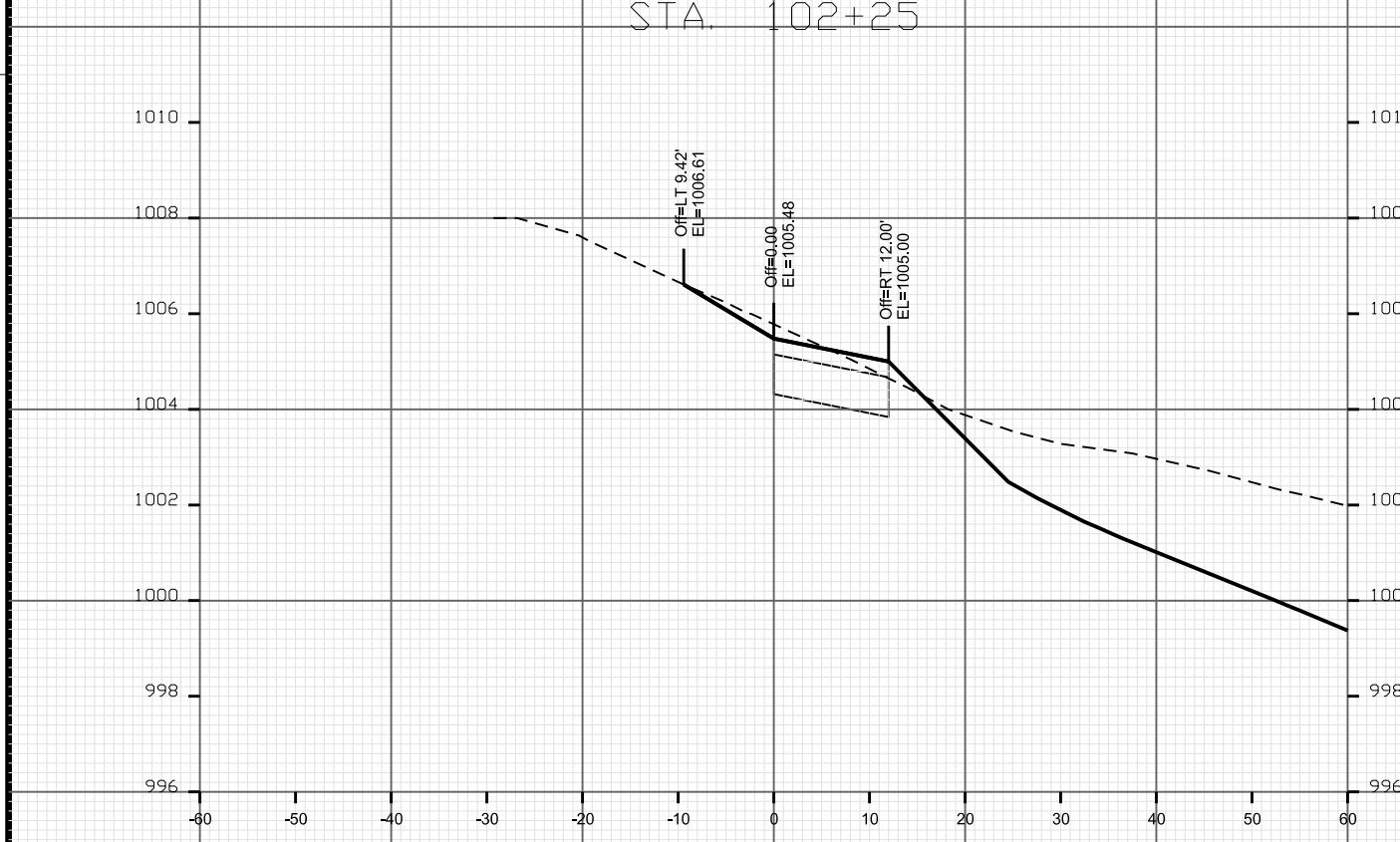
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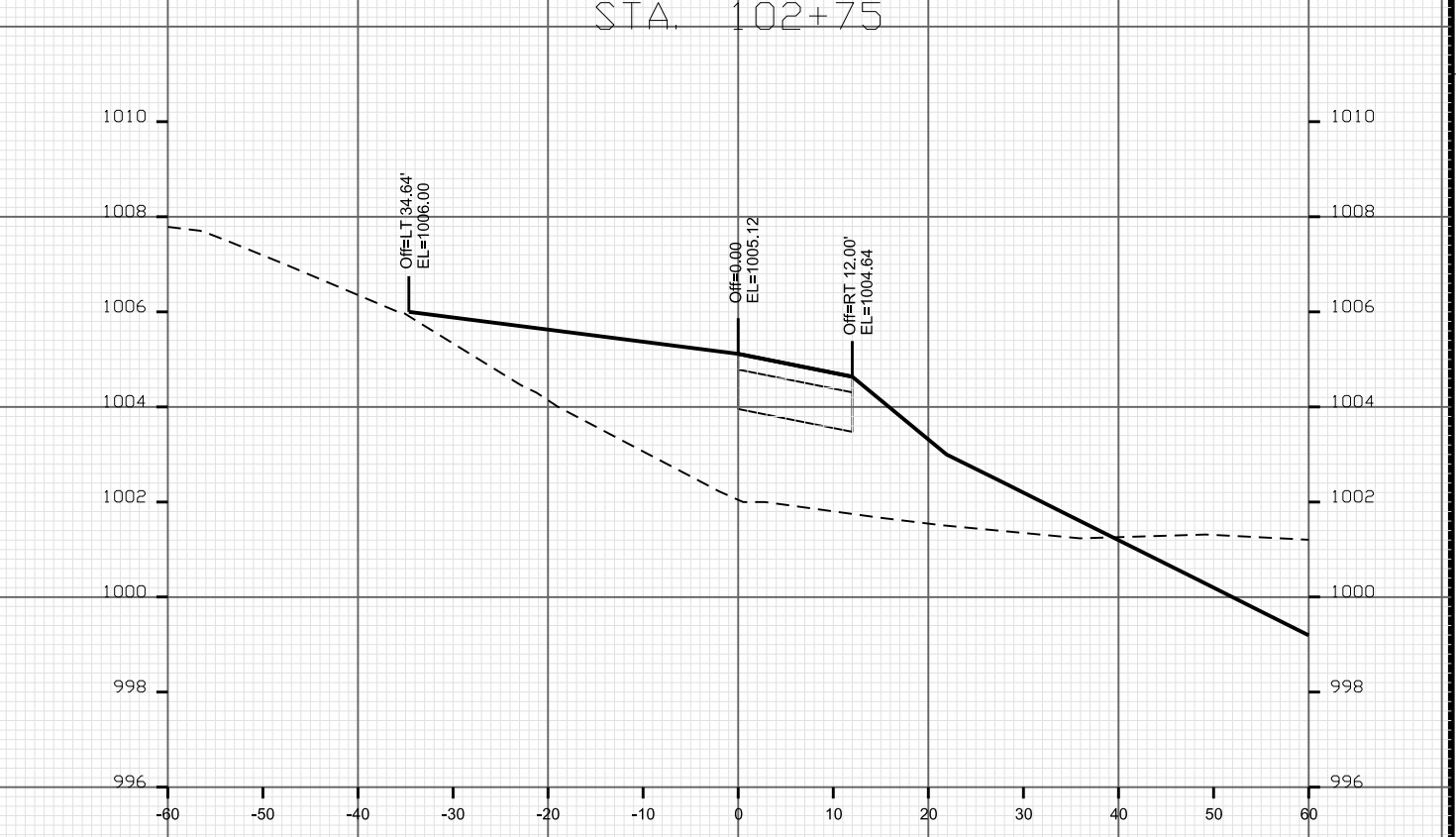
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STA. 102+75



STA. 102+00



STA. 102+50



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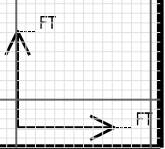
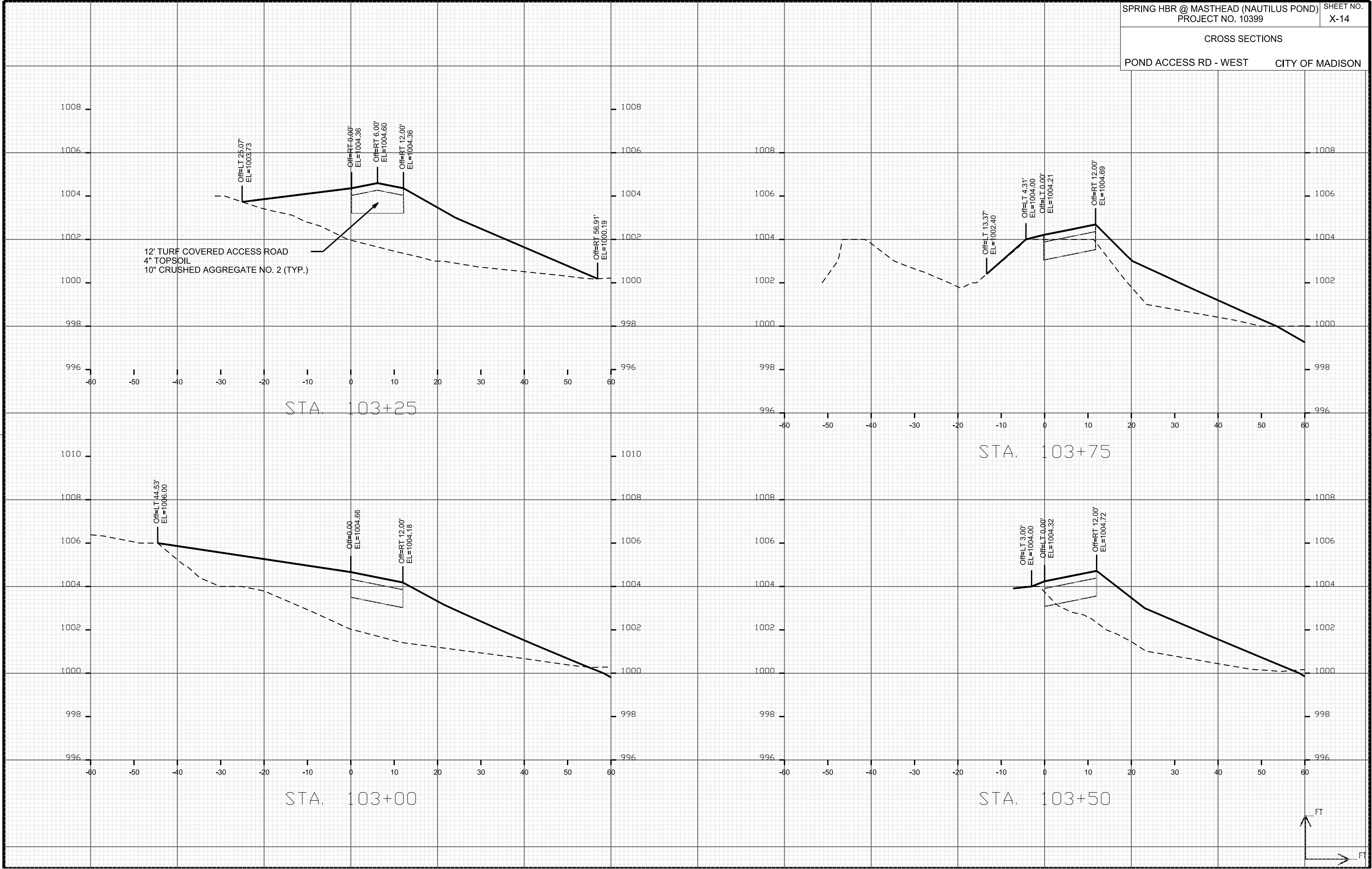
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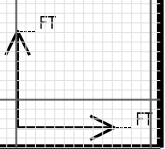
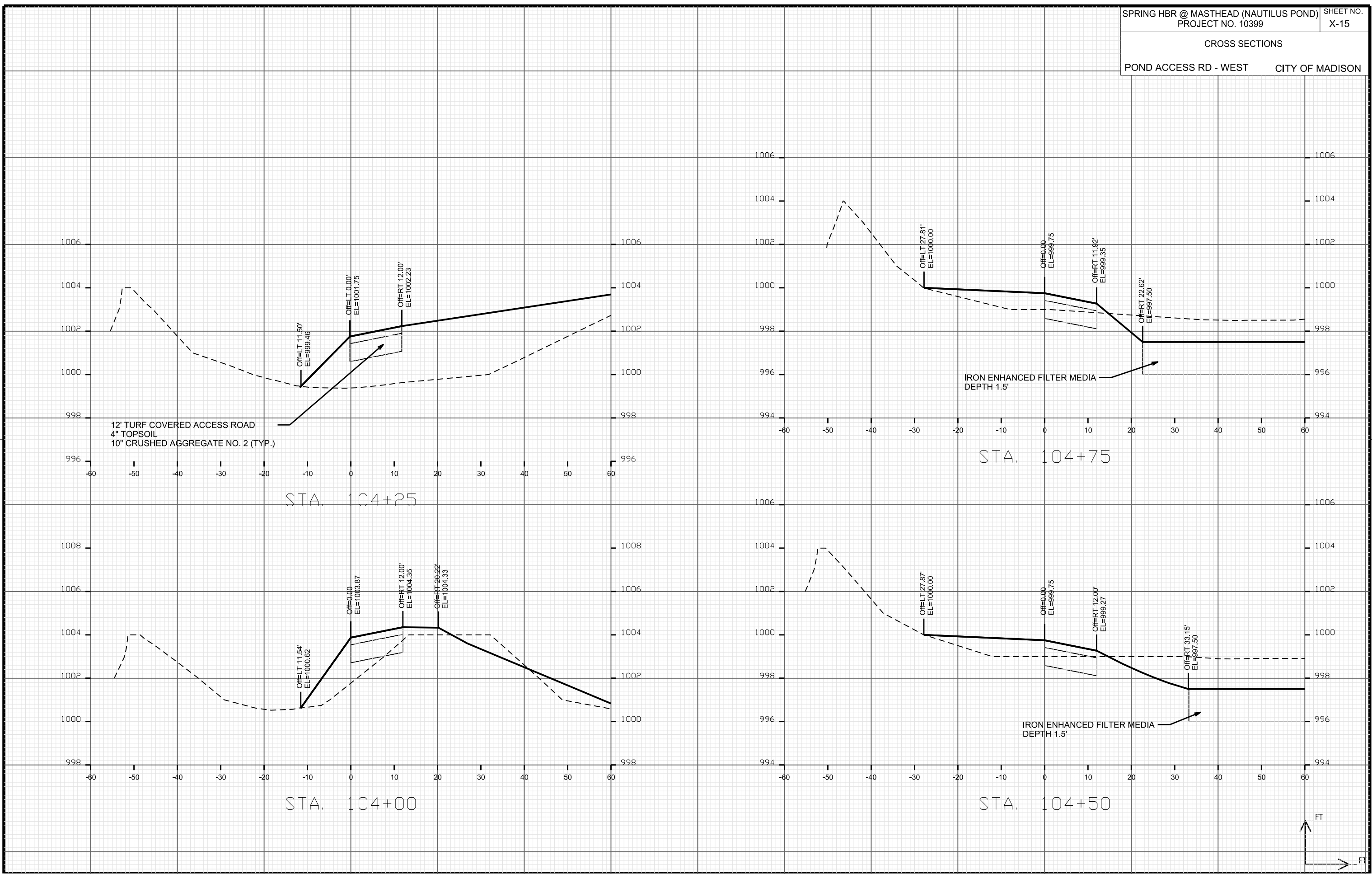


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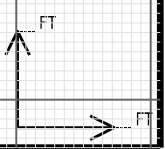
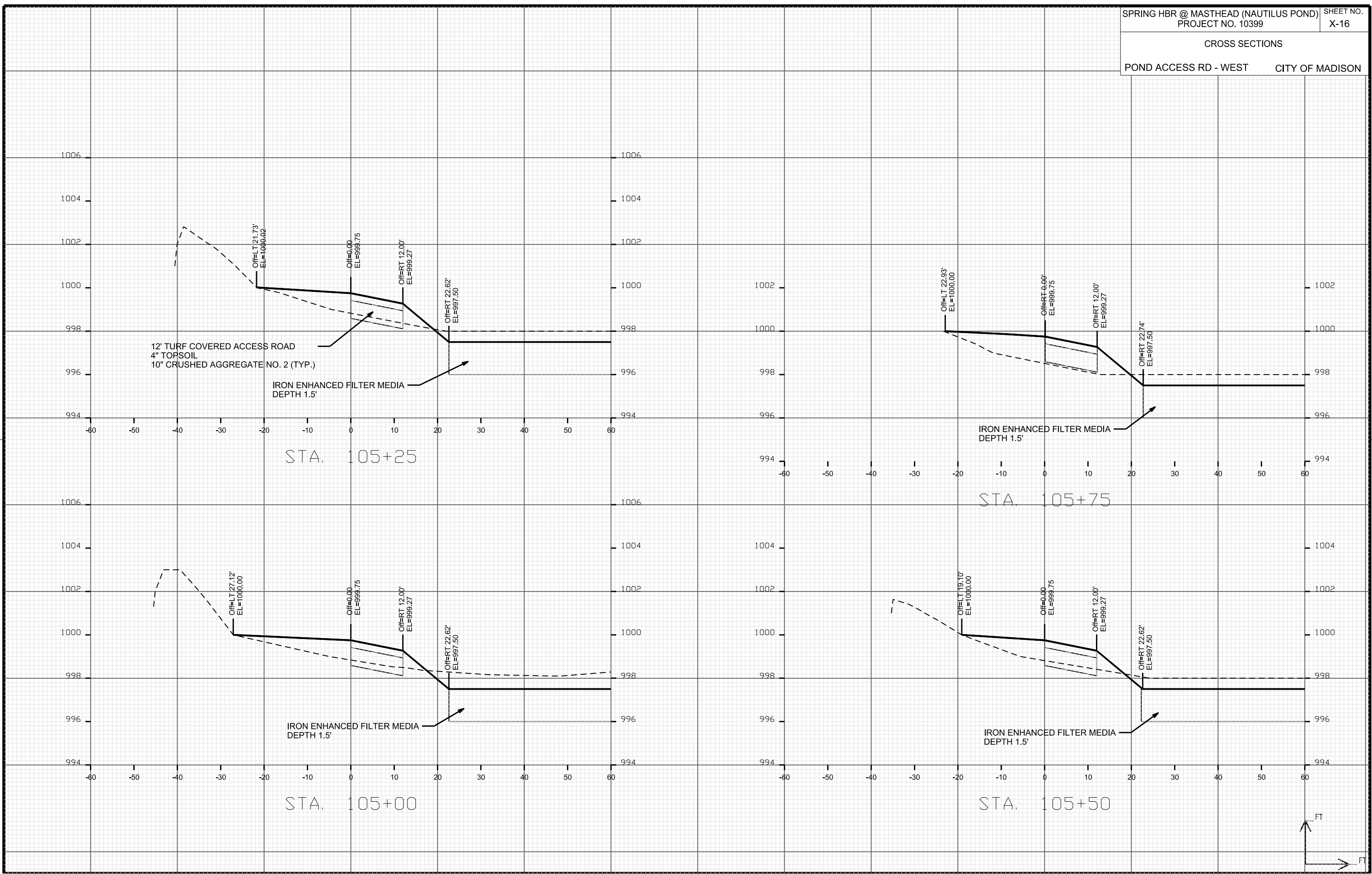
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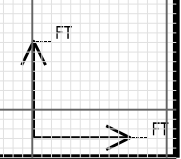
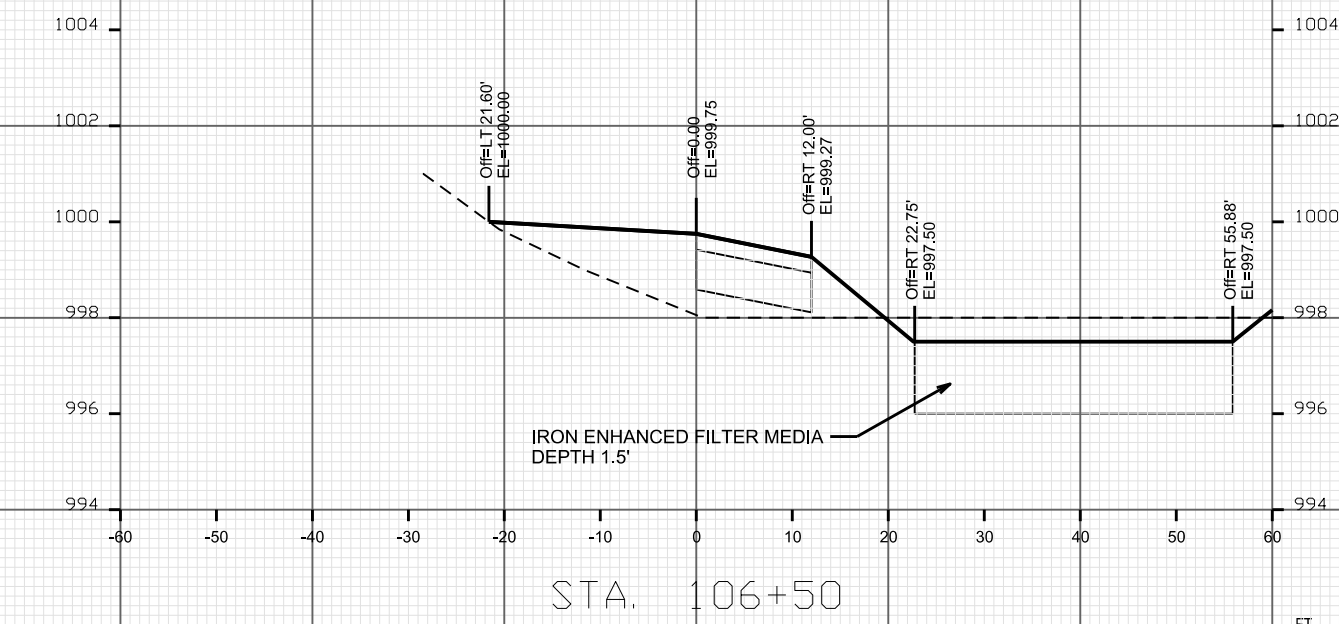
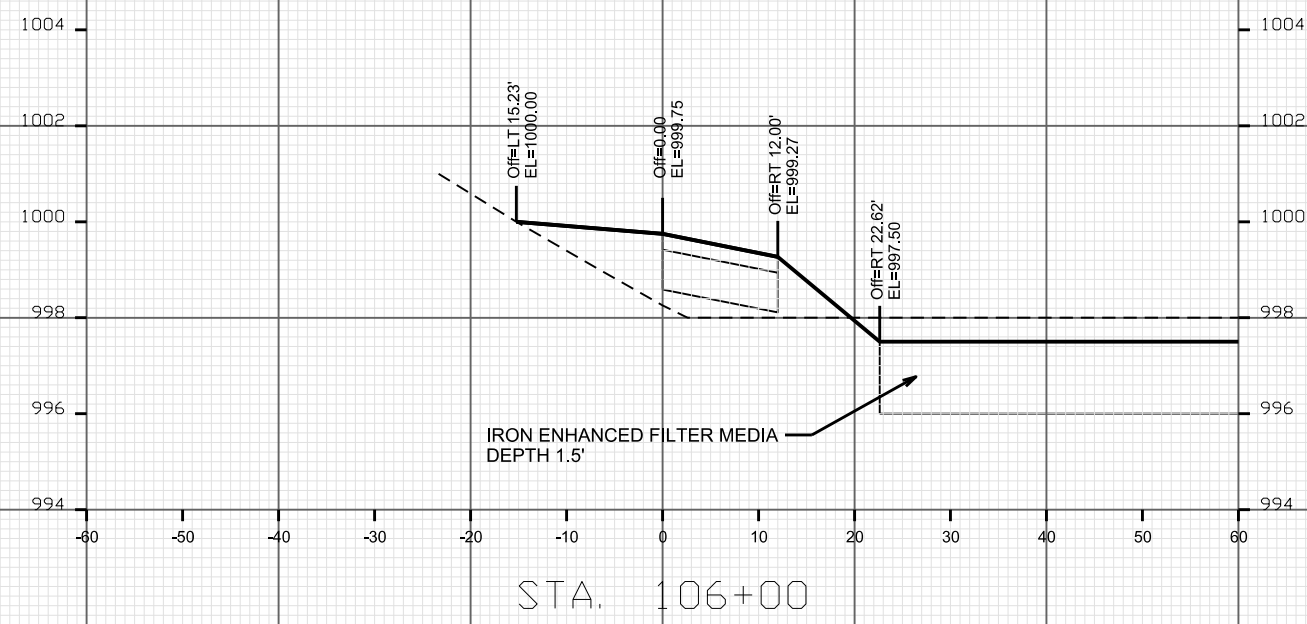
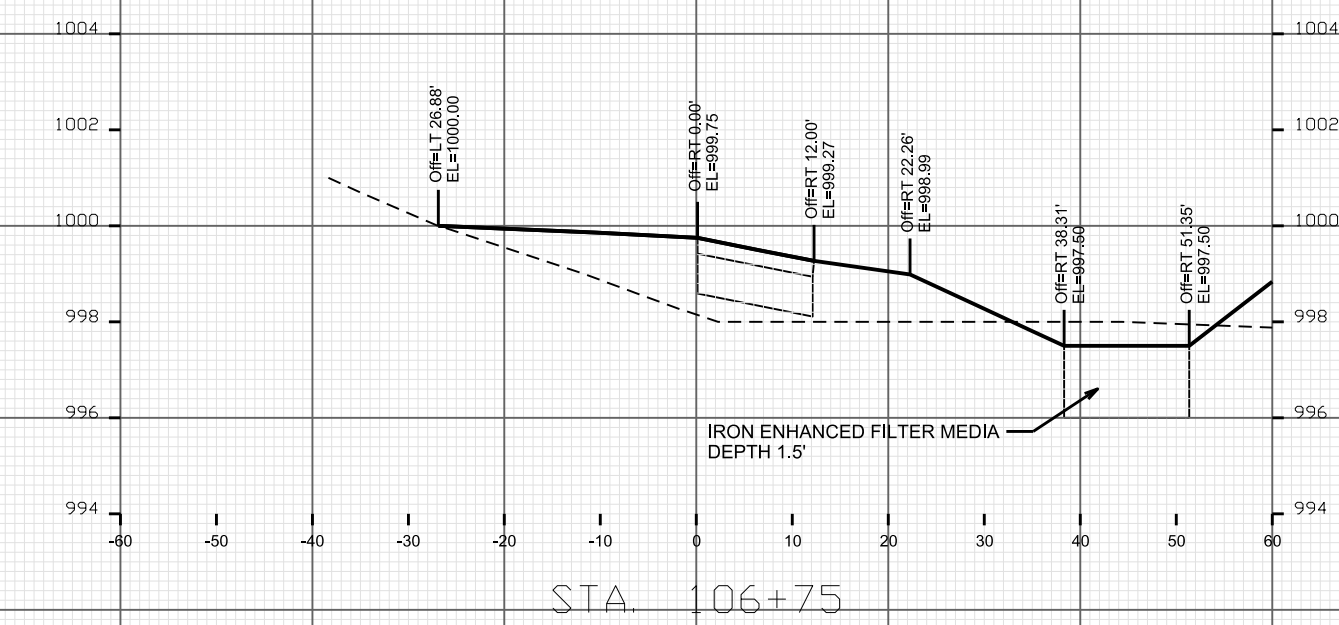
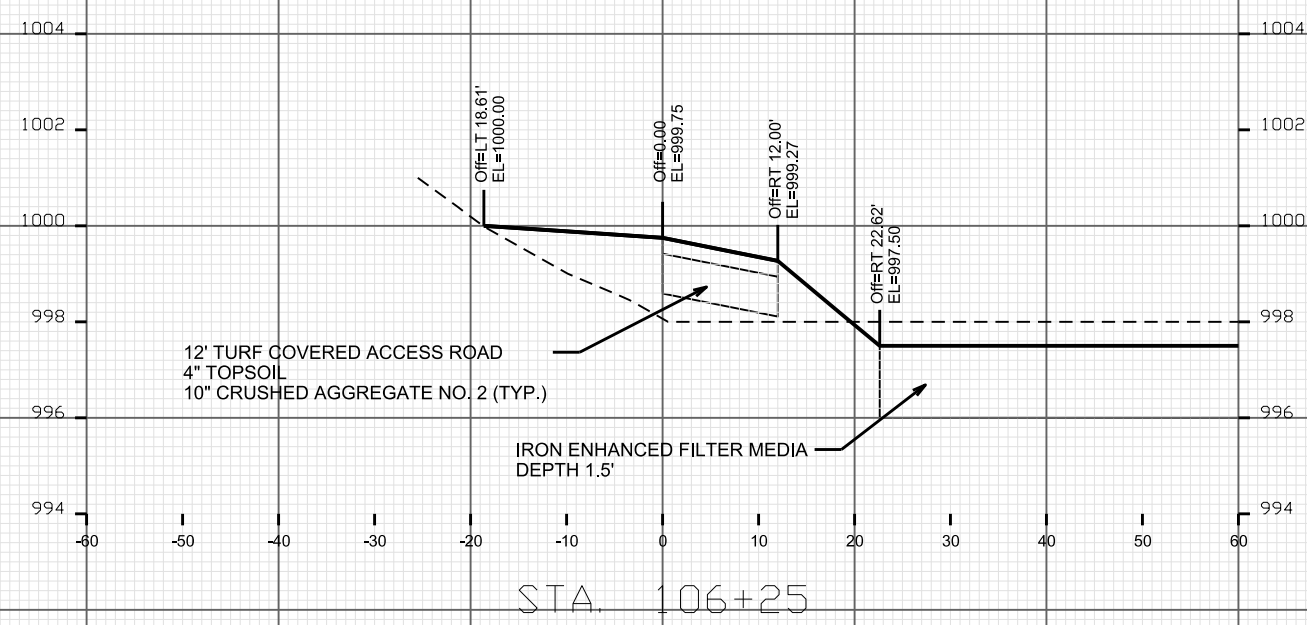
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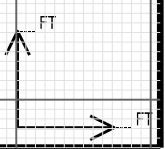
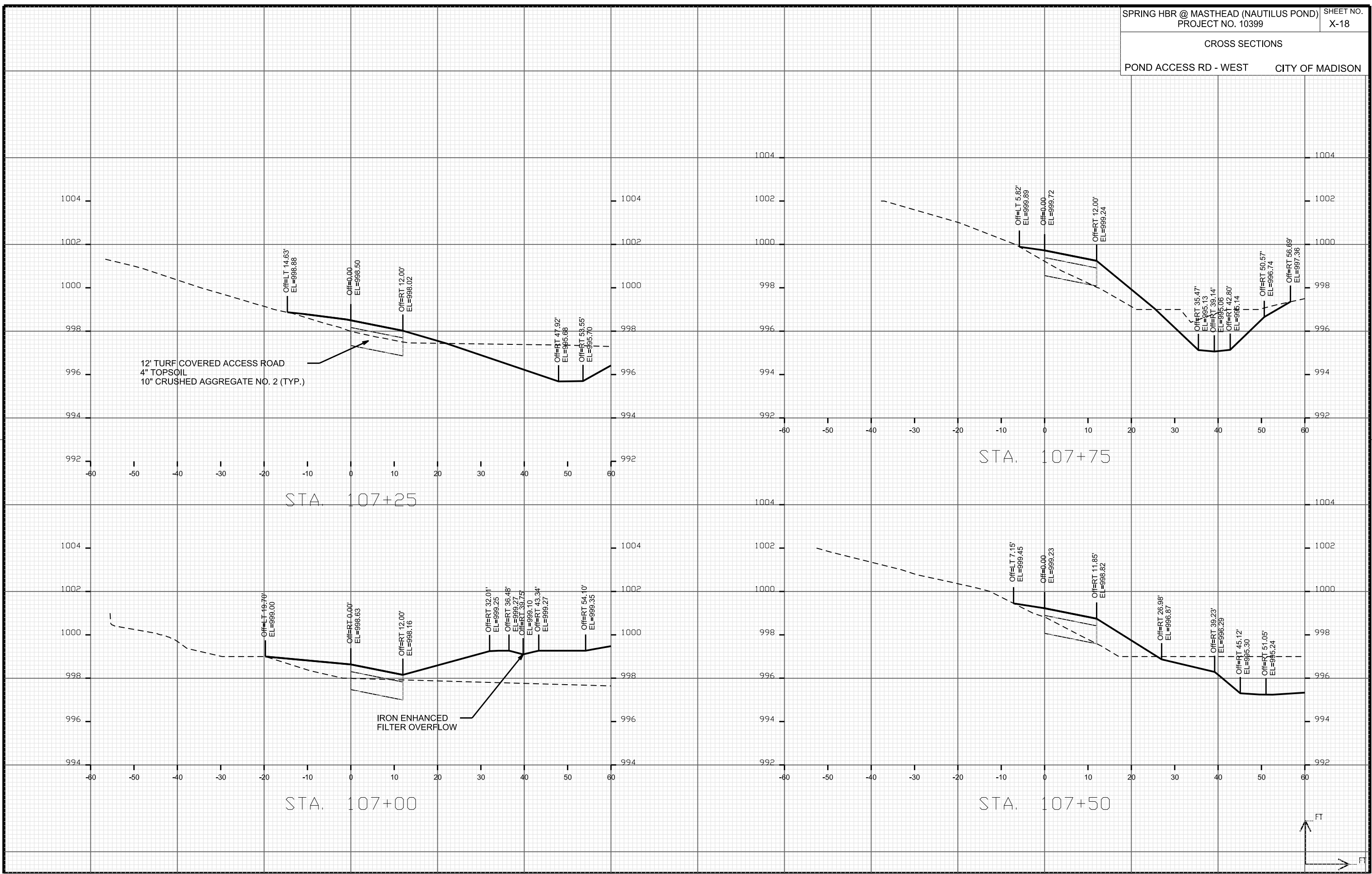


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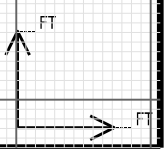
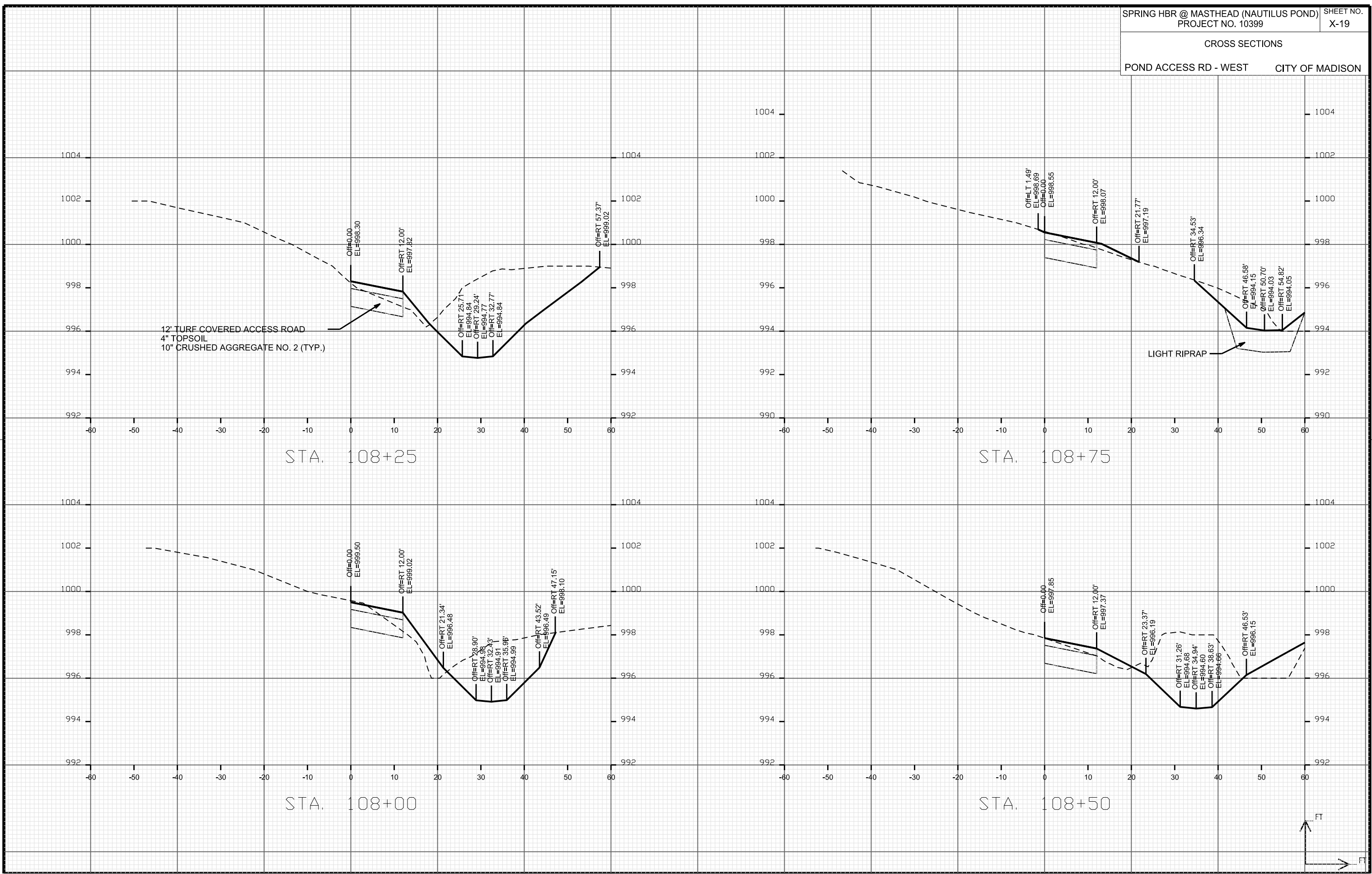
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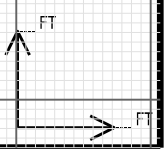
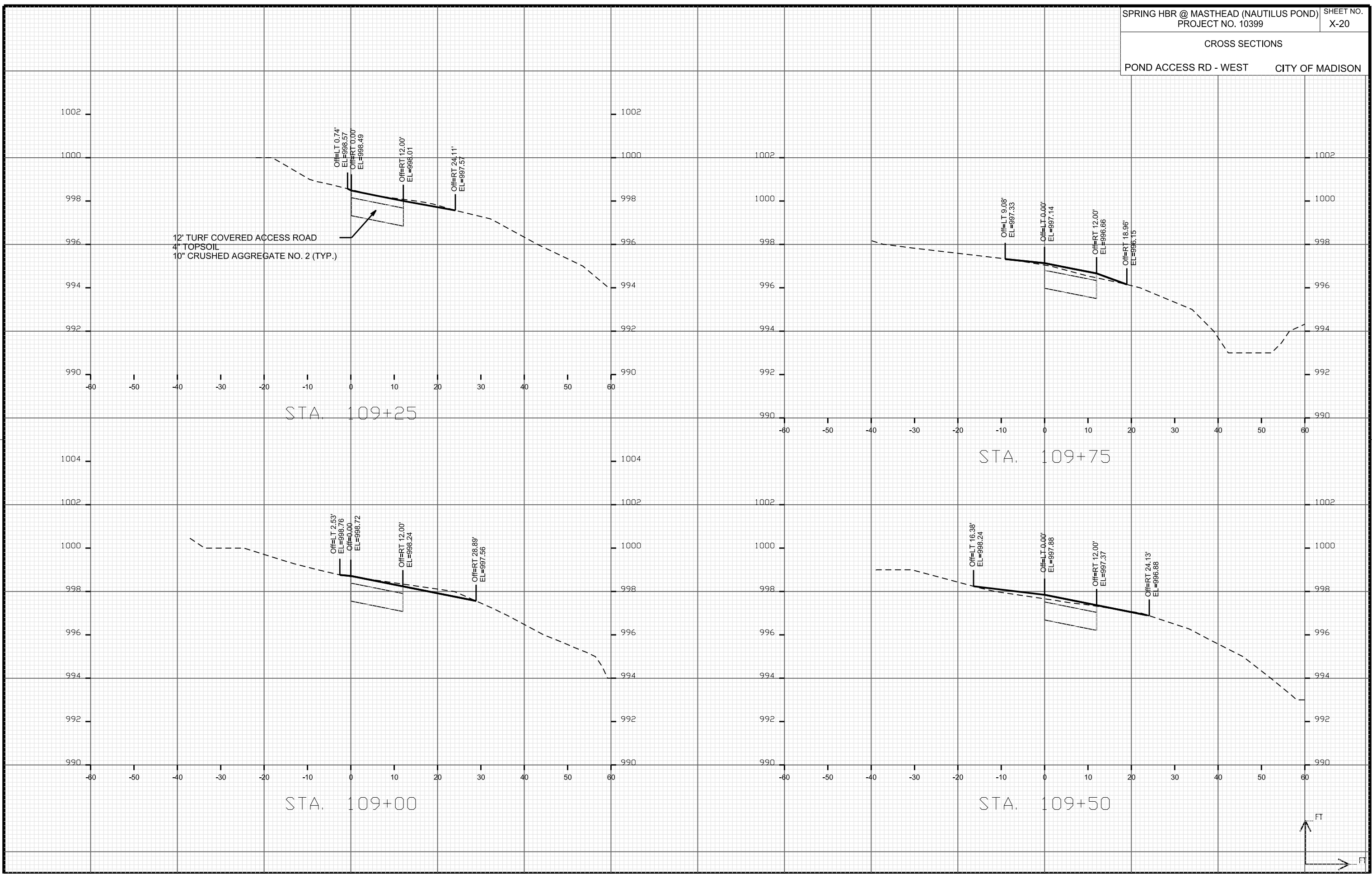
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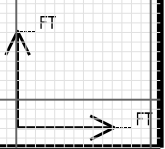
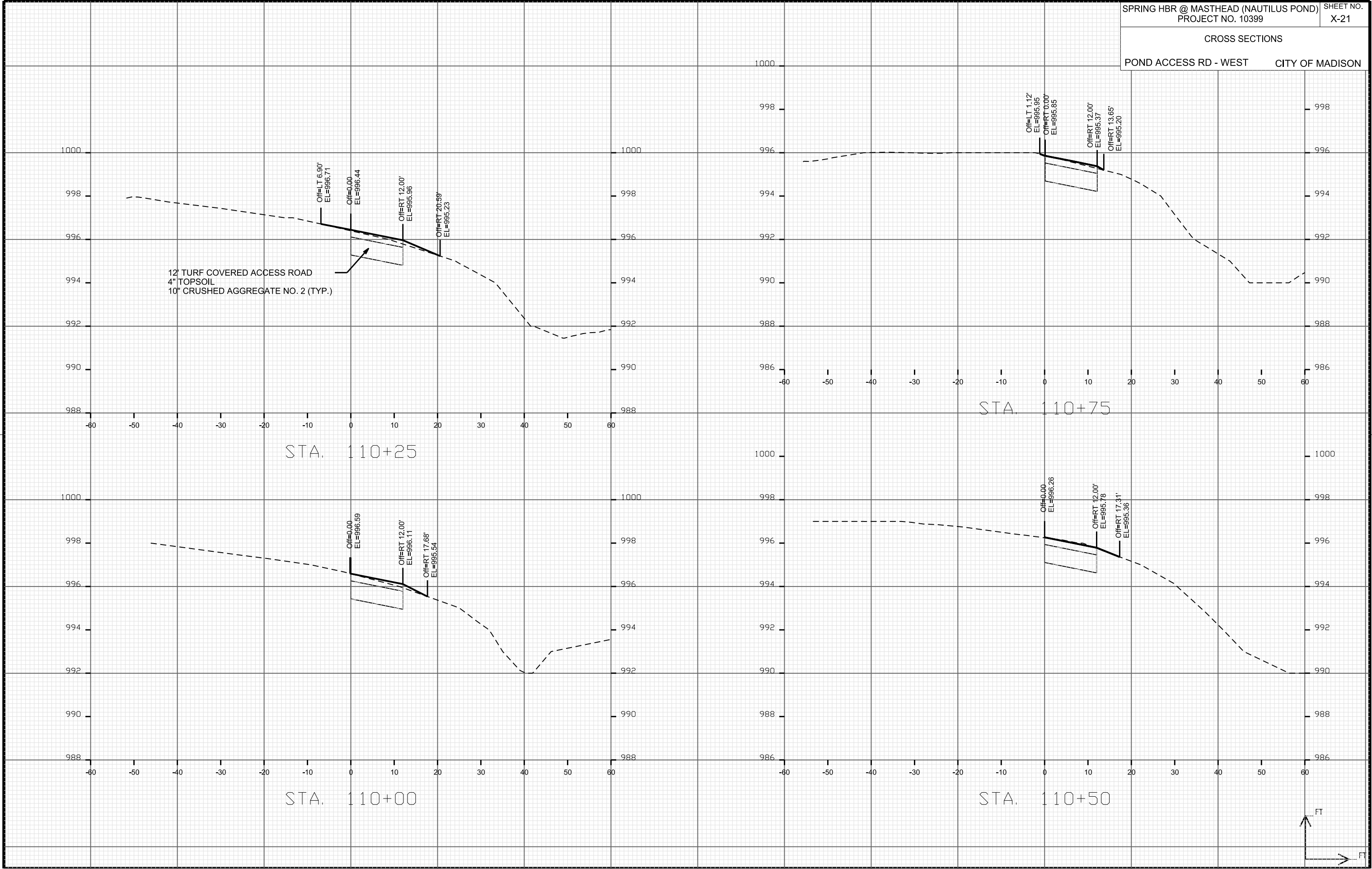
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