



Madison, Wisconsin

INDEX OF SHEETS

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SHEET NO.	MN1	MAINTENANCE MAP

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	

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

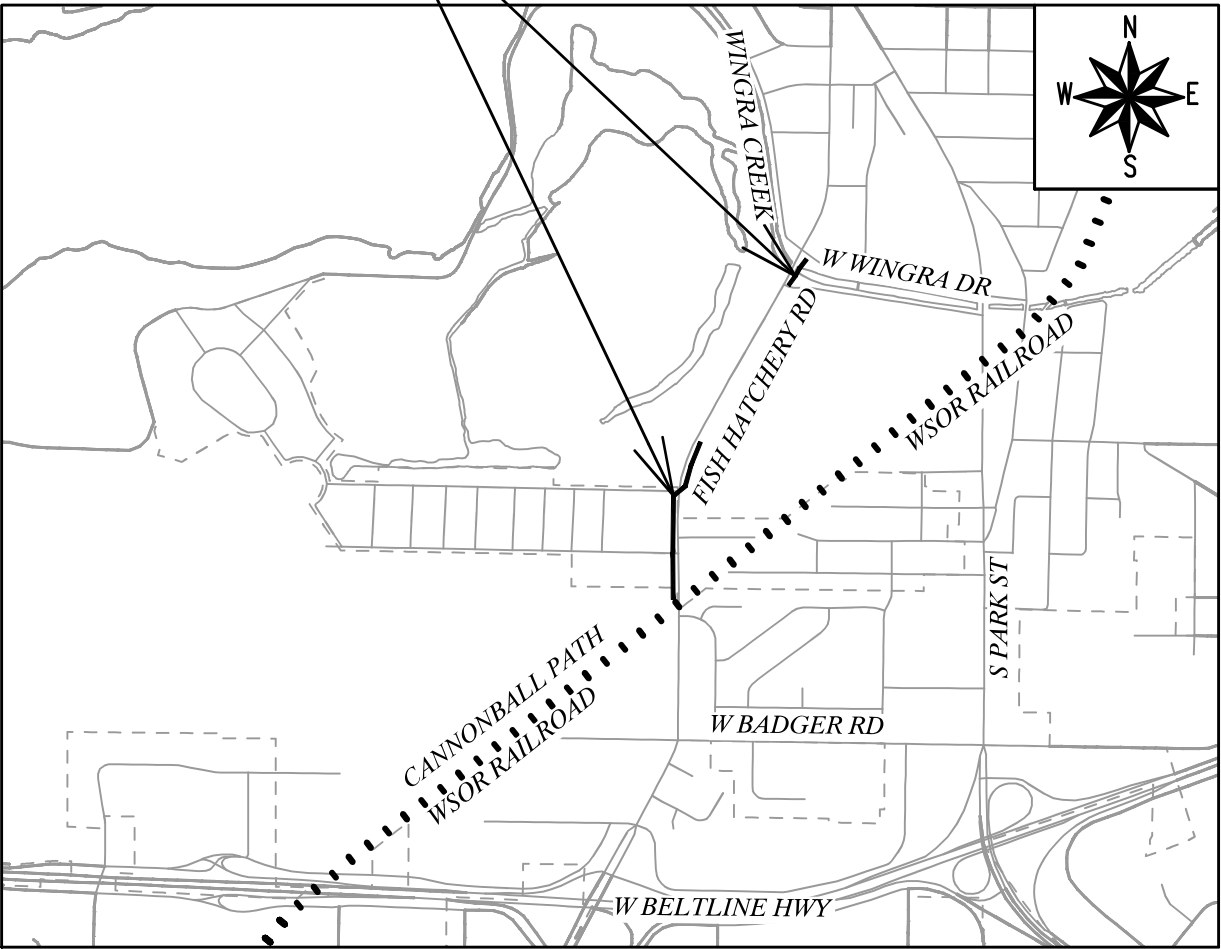
SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

CANNONBALL PATH: PHASE 6

PROJECT
LOCATION

CITY PROJECT NO. 10153
CONTRACT NO. 7431



EARTHWORK SUMMARY:	
EXCAVATION CUT (MEASURED PLAN QUANTITY)	1700 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	480 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	2190 CY

REVISION 1: 8/18/2026
Revised Sheets: P5-P6, U1-U3, U5-U6, E1-E9, E12-E15

PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 10, 2026

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

05/29/2026

City Engineer

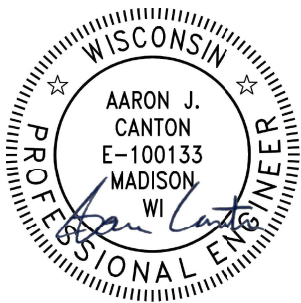
Date

PAVEMENT MARKINGS
& TRAFFIC CONTROL
DESIGNED BY:



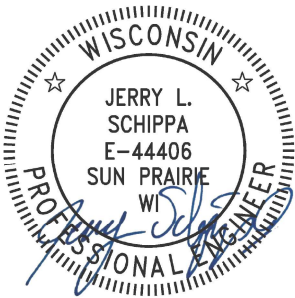
05/29/2026

STREET & PATH
DESIGNED BY:



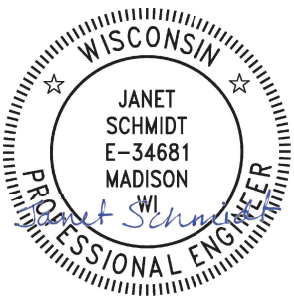
05/29/2026

LIGHTING & SIGNALS
DESIGNED BY:



05/29/2026

STORM SEWER
DESIGNED BY:



05/29/2026

BIKE-PEDESTRIAN BRIDGE
DESIGNED BY:

SEE
INDIVIDUAL
SHEETS

SANITARY SEWER
DESIGNED BY:

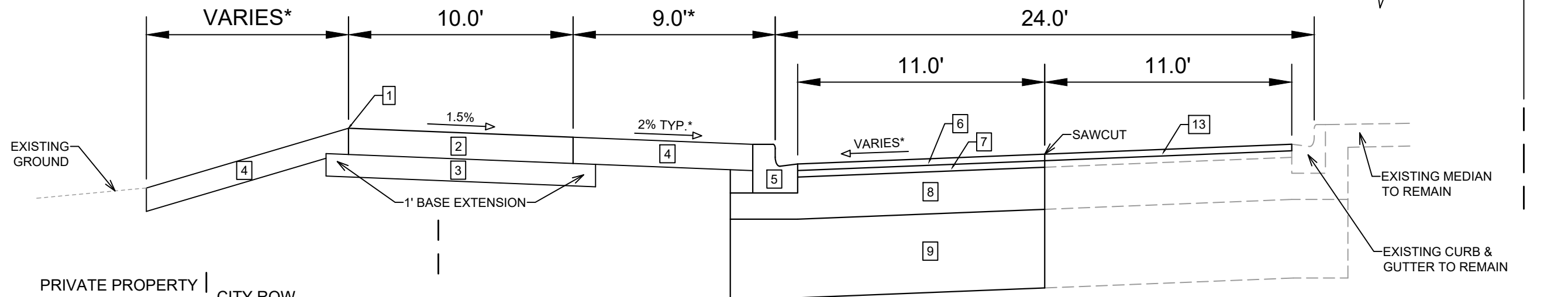


05/29/2026

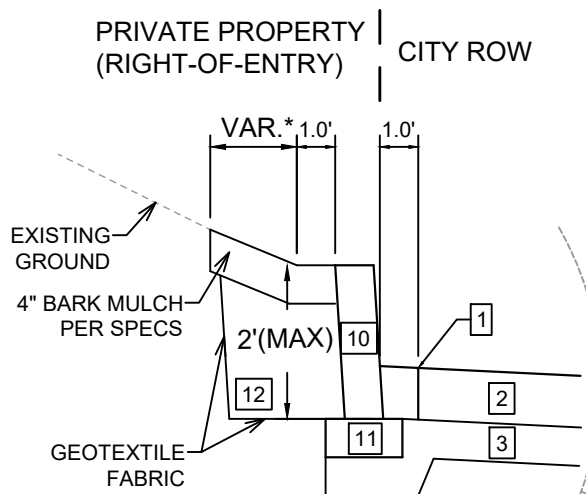
PLOT SCALE: 1 IN=1 FT_XREF
PLOT NAME: ----
REV. DATE: 5/27/2026 11:41 AM
ORIGINATOR: CITY_OF_MADISON

CITY PROPERTY
(1471 MARTIN ST)

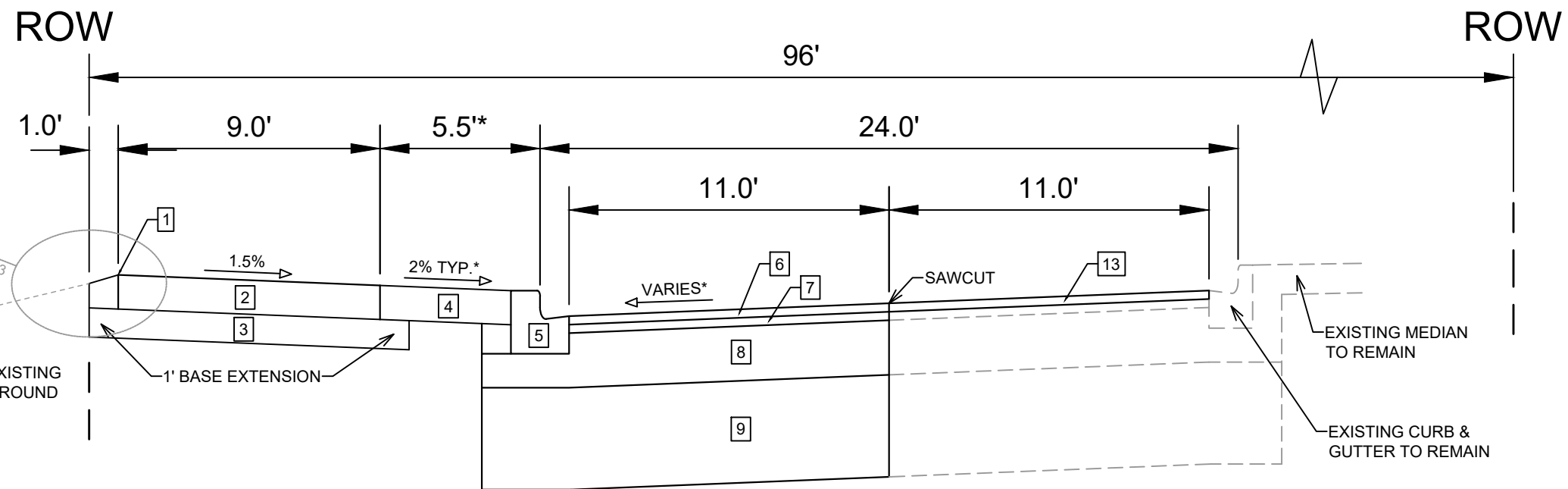
CITY ROW



TYPICAL SECTION
CANNONBALL PATH: PHASE 6
(RR TRACK TO MARTIN ST)



SPLIT BLOCK
RETAINING WALL
(STA 18+70.53 TO STA 20+02.73)



TYPICAL SECTION
CANNONBALL PATH: PHASE 6
(MARTIN ST TO CARVER ST)

- 1 POINT REFERRED TO ON PROFILE
- 2 7" CONCRETE SIDEWALK, SAWED JOINTS
- 3 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE**
- 4 6" TOPSOIL, SEED, & MAT
- 5 TYPE 'H' CONCRETE CURB & GUTTER
- 6 2" HMA PAVEMENT- TYPE 4 MT 58-28 S
- 7 3.5" HMA PAVEMENT- TYPE 3 MT 58-28 S
- 8 12" GRADATION 2 CRUSHED AGGREGATE BASE COURSE***
- 9 21.5" GRADATION 1 CRUSHED AGGREGATE BASE COURSE***
- 10 SPLIT BLOCK RETAINING WALL. SEE SPECS.
- 11 6" GRADATION 2 CRUSHED AGGREGATE BASE (LEVELED & COMPACTED)
- 12 BACKFILL PER WALL MANUFACTURER
- 13 2" MILL & OVERLAY - TYPE 4 MT 58-28 S (FINAL LIMITS BY CONSTRUCTION ENGINEER)

NOTES:

* SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES

** BASE COURSE UNDERNEATH 7" CONCRETE SIDEWALK ESTIMATED SEPARATELY, NOT INCIDENTAL TO SIDEWALK BID ITEM.

*** TYPICAL SECTION BASED ON PREVIOUS FISH HATCHERY ROAD AS-BUILTS. BOTH LAYERS OF EXISTING BASE COURSE TO REMAIN AS POSSIBLE. BASE COURSE TO BE REPLACED FOR SEWER INSTALLATION AND AS DIRECTED BY CONSTRUCTION ENGINEER FOR CONDITION AND/OR GRADE CHANGES AS NEEDED. SEE EXCAVATION CUT SPECS FOR MORE DETAIL.

10153

MADISON, WI

7431

CONTRACT NO:

CANNONBALL PATH - TYPICAL SECTIONS

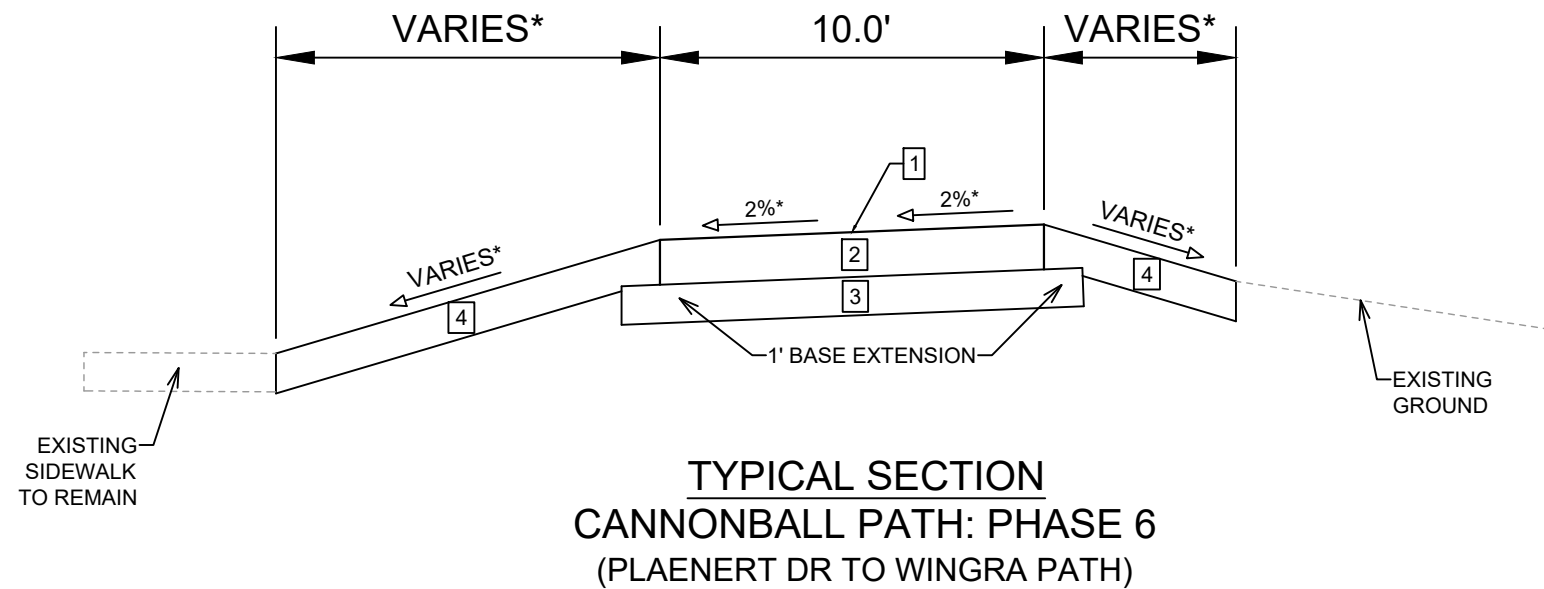
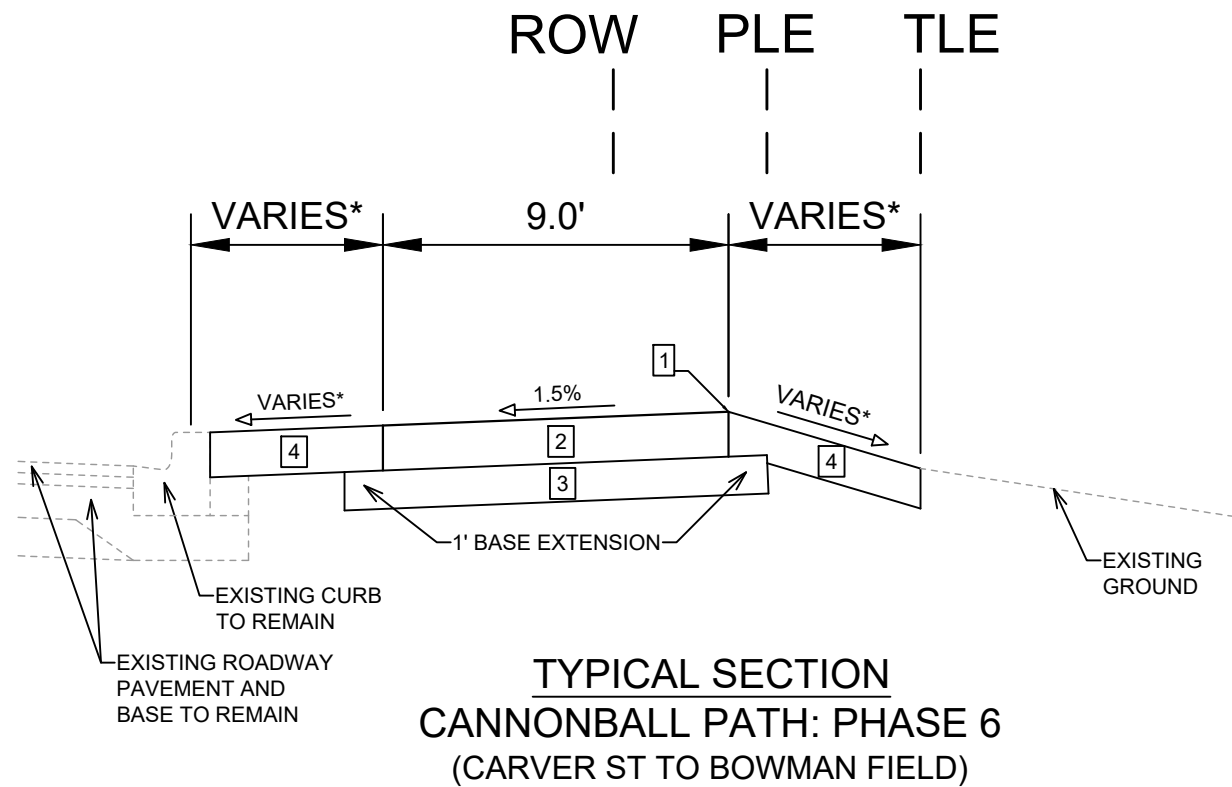
CANNONBALL PATH: PHASE 6

M:\DESIGN\Projects\10153\CAD\Fish Hatchery ROW - Streets\10153EN-FishHatcheryROW_Details.dwg



10153

D-1



NOTES:

* SEE P-SHEETS AND X-SHEETS FOR DIMENSIONING AND CROSS SLOPES

** BASE COURSE UNDERNEATH 7" CONCRETE SIDEWALK ESTIMATED SEPARATELY, NOT INCIDENTAL TO SIDEWALK BID ITEM.

- 1 POINT REFERRED TO ON PROFILE
- 2 7" CONCRETE SIDEWALK, SAWED JOINTS
- 3 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE**
- 4 6" TOPSOIL, SEED, & MAT

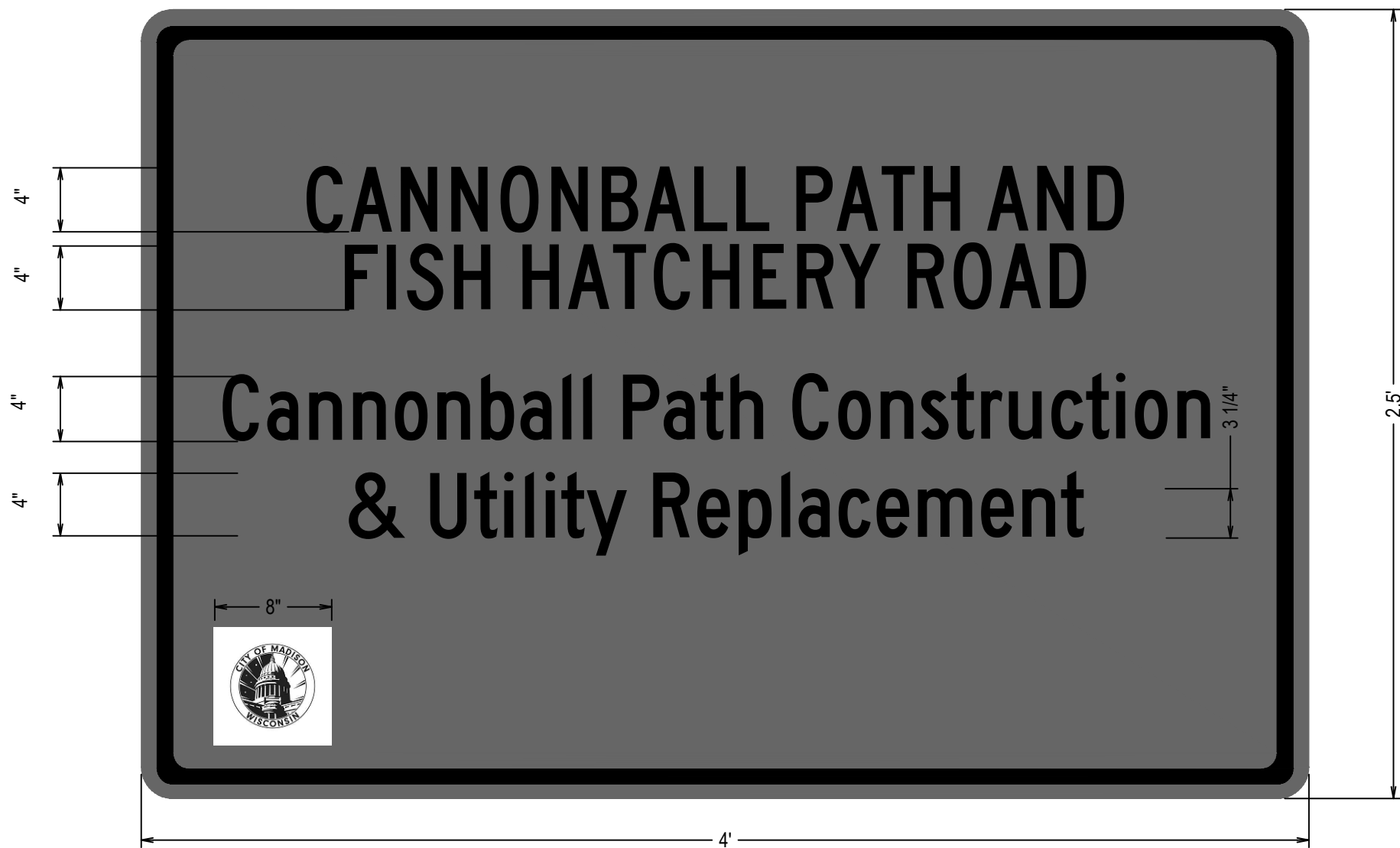


DATE	BY
5/27/2026	3:37 PM
REVISION	
MARK	
10153	
10153	

10153	MADISON, WI	7431
CANNONBALL PATH - TYPICAL SECTIONS	CANNONBALL PATH: PHASE 6	CONTRACT NO:
M:\DESIGN\Projects\10153\CAD\Fish Hatchery ROW - Streets\10153EN-Fish Hatchery ROW_Details.dwg		



10153
D-2



Notes:

1. COLOR
BACKGROUND = ORANGE
MESSAGE = BLACK
BORDER = BLACK
2. LETTERING SERIES = C
3. MINIMUM SIGN REFLECTIVITY = HIGH INTENSITY PRISMATIC GRADE
4. SIGN MATERIAL MAY BE PLASTIC OR METAL
5. CONTRACTOR SHALL MAINTAIN SIGNS FOR DURATION OF PROJECT ATTACHED TO TYPE III BARRICADE



10153
D-3

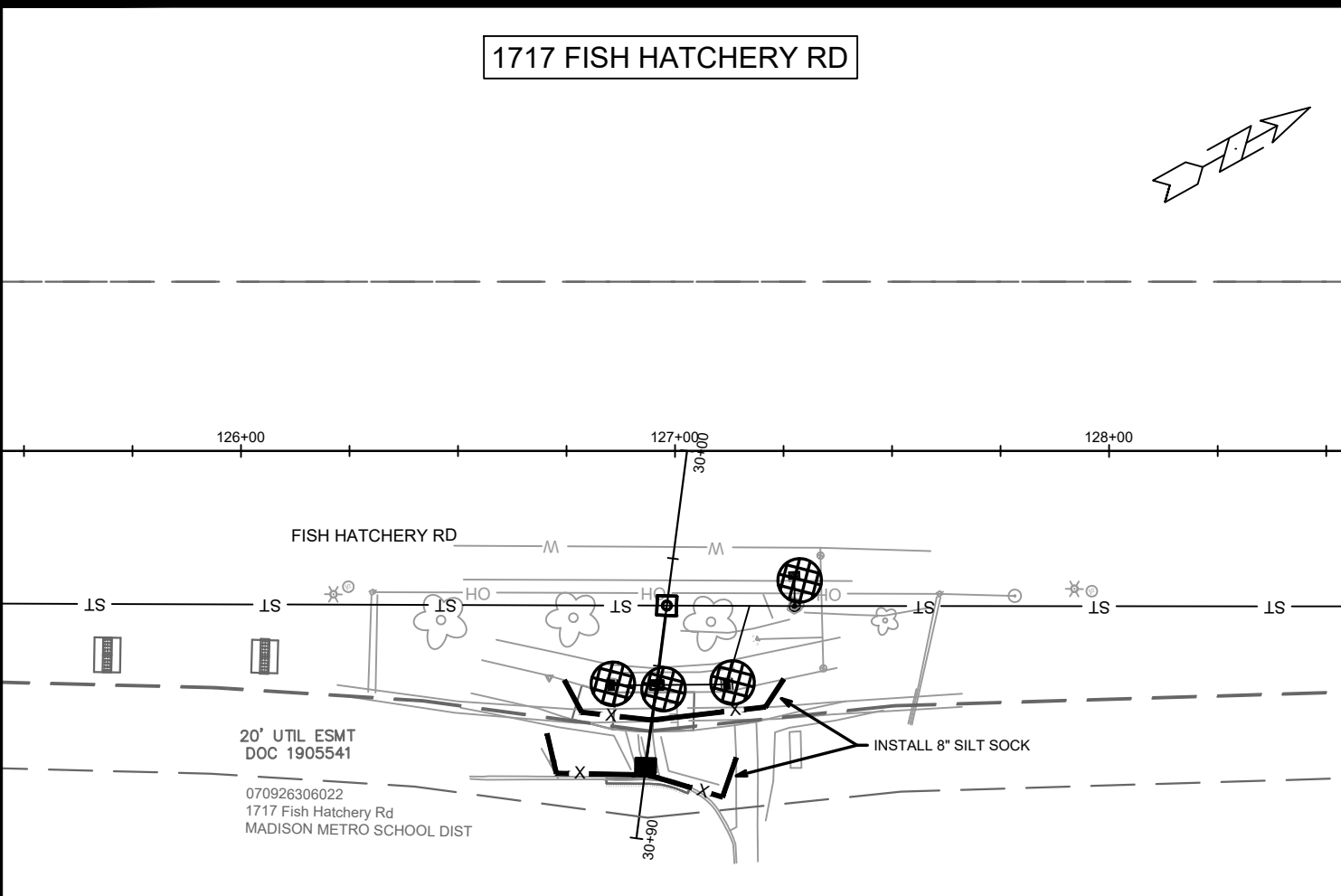
D-3 - ORANGE PROJECT INFO SIGN
CANNONBALL PATH - PHASE 6

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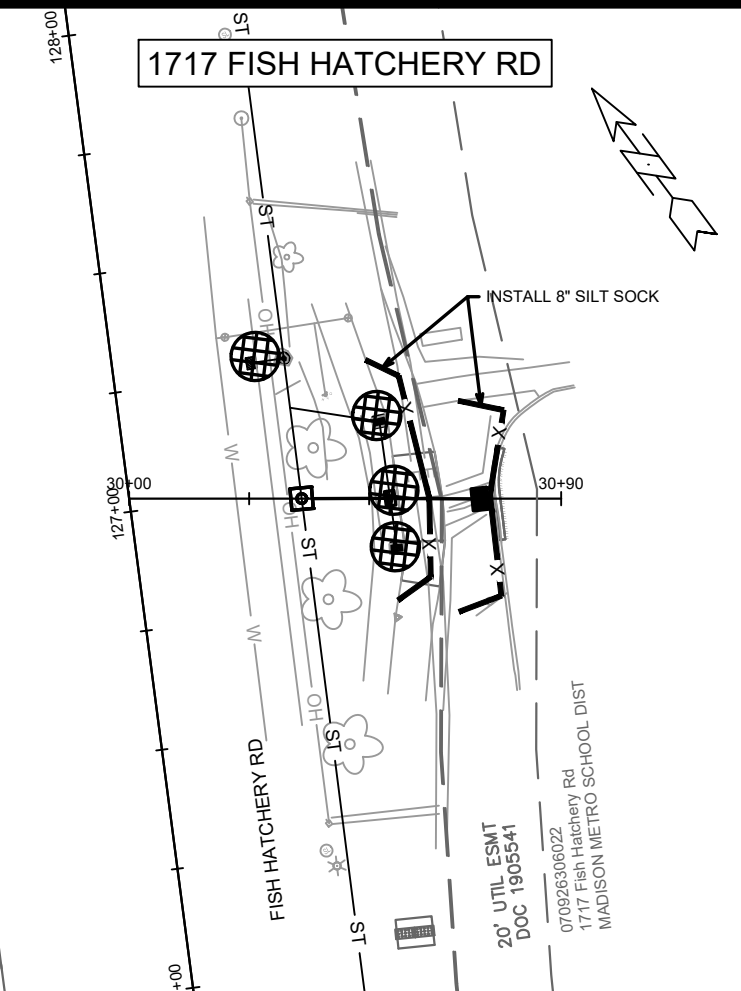
10153
MADISON, WI
CONTRACT NO: 7431

MARK	REVISION	DATE	BY
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10153			D-3

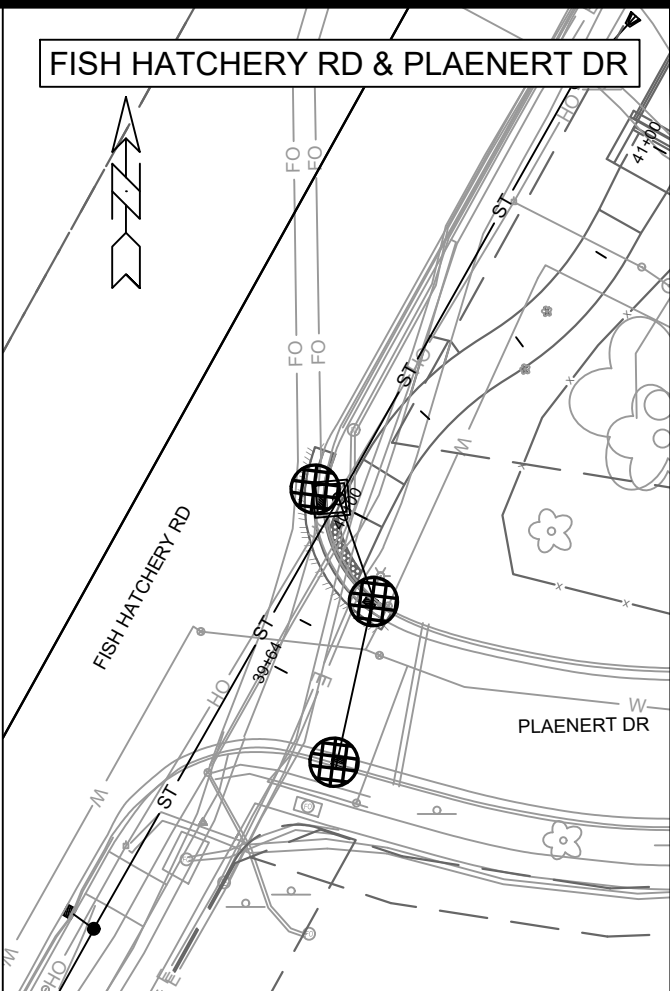
1717 FISH HATCHERY RD



1717 FISH HATCHERY RD



FISH HATCHERY RD & PLAENERT DR



3" CLEAR STONE TRACKOUT - INSTALL TYPE HR FILTER FABRIC, 3" CLEAR STONE, MIN 1' DEPTH

RIGID FRAME INLET PROTECTION

STREET CONSTRUCTION STONE BERM

SILT SOCK (PLACE AS NEEDED & AROUND STOCKPILES)

860

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.

830

126+50

127+00

127+50

875

870

865

860

855

850

845

840

835

830

875

870

865

860

855

850

845

840

835

830

30+00

875

870

865

860

855

850

845

840

835

830

30+90

= 2" MILL & OVERLAY (FINAL LIMITS BY CONSTR. ENG)

= SAWCUT

10153

1717 FISH HATCHERY RD & PLAENERT DR - EROSION CONTROL

CANNONBALL PATH: PHASE 6

MADISON, WI

7431

CONTRACT NO:

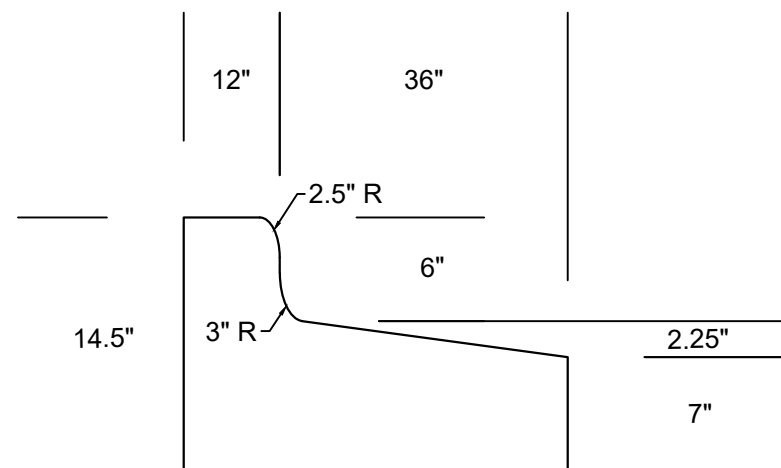
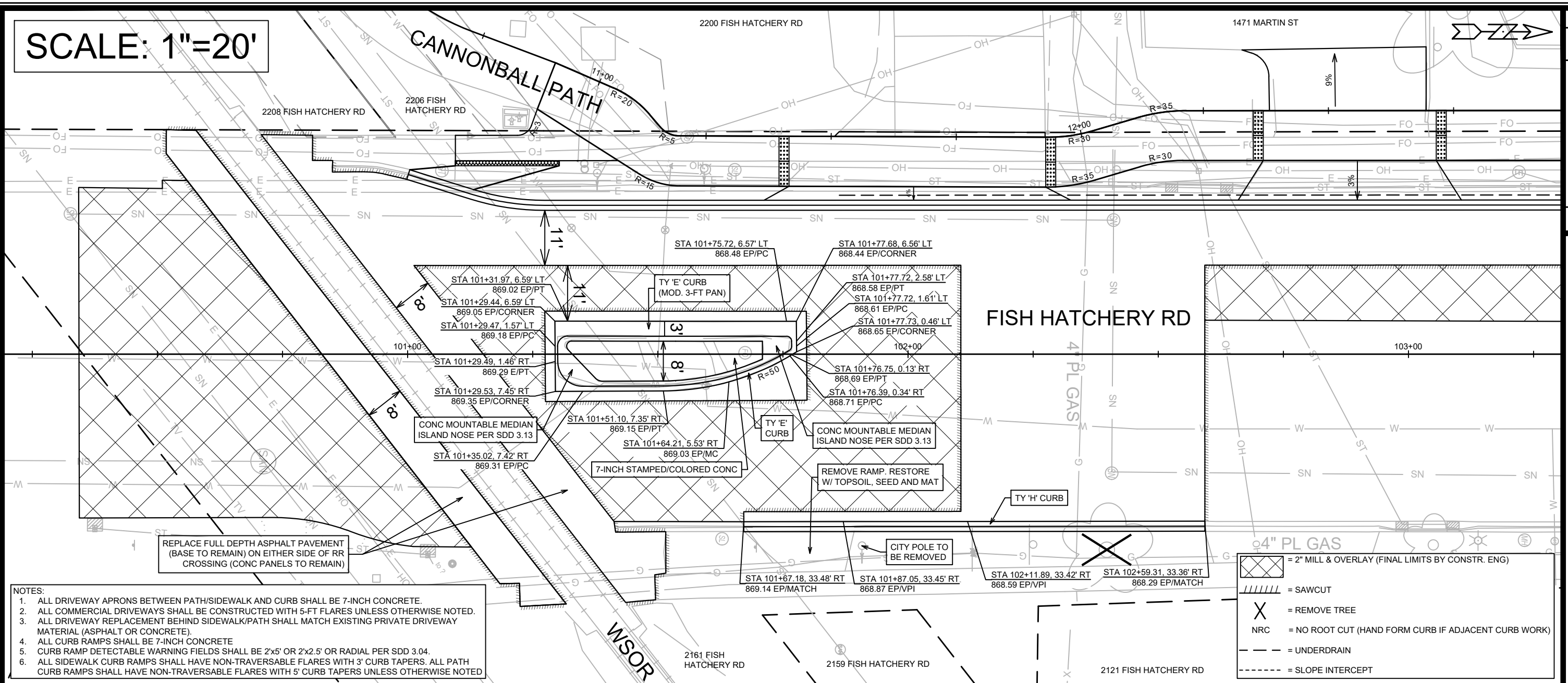


10153

EC-3

MARK	REVISION	DATE	BY
10153	10153	5/28/2026 4:22 PM	EC-3

SCALE: 1"=20'



MOD. TYPE 'E' CONCRETE
CURB & GUTTER
(3-FT GUTTER PAN)
(PAY AS TY 'E' C&G)

MARK	REVISION	DATE	BY
10153	Date: 5/27/2026 4:07 PM	Scale: 1" = 20'	PD-1

FISH HATCHERY RD (MEDIAN ISLAND @ RR CROSSING) - PLAN DETAILS	10153
CANNONBALL PATH: PHASE 6	MADISON, WI
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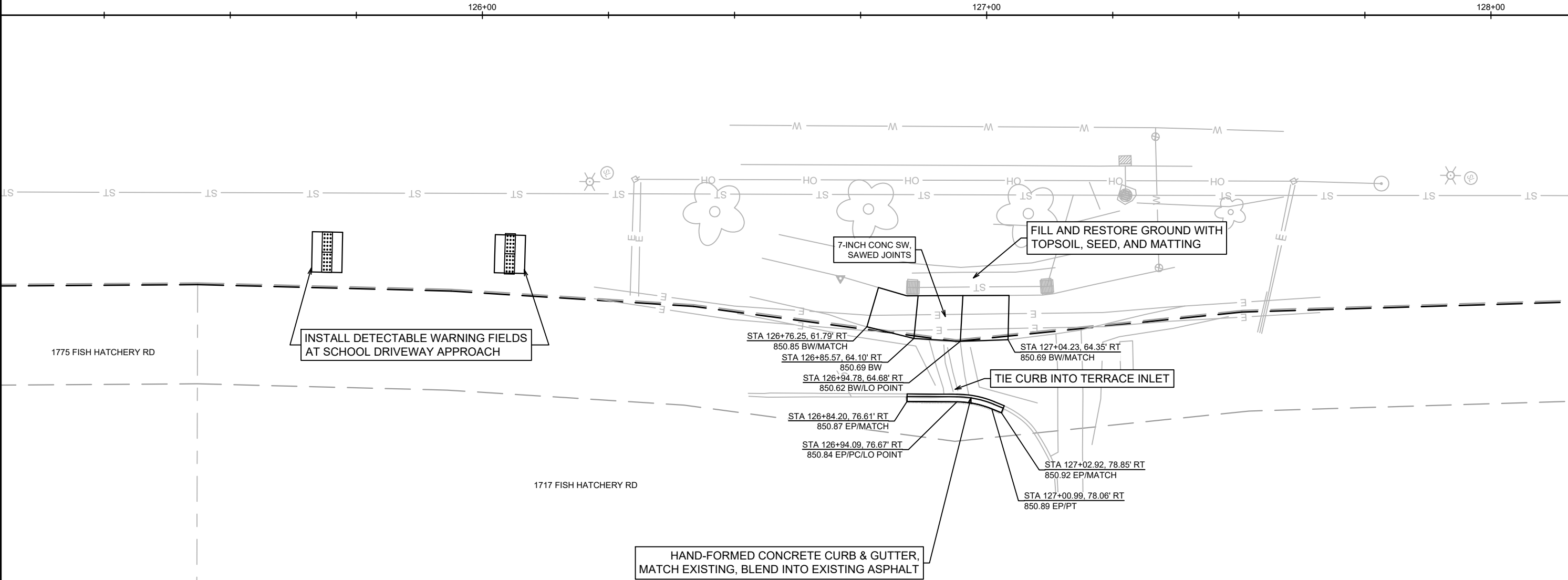


10153
PD-1

SCALE: 1"=20'



FISH HATCHERY RD

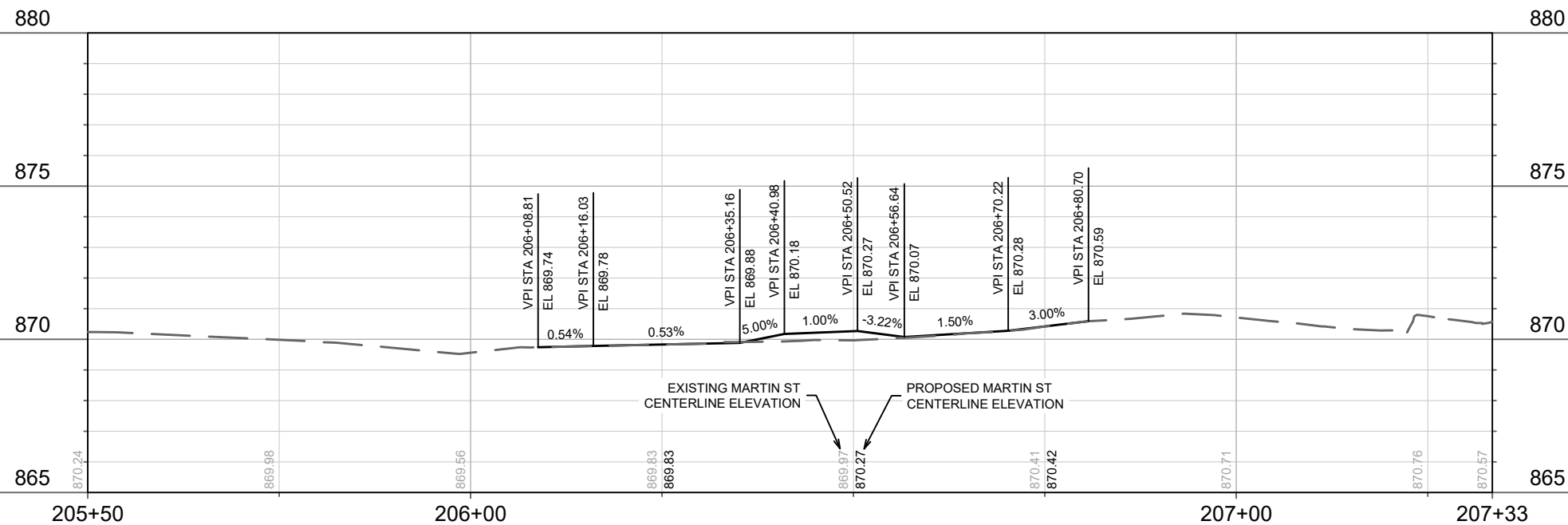
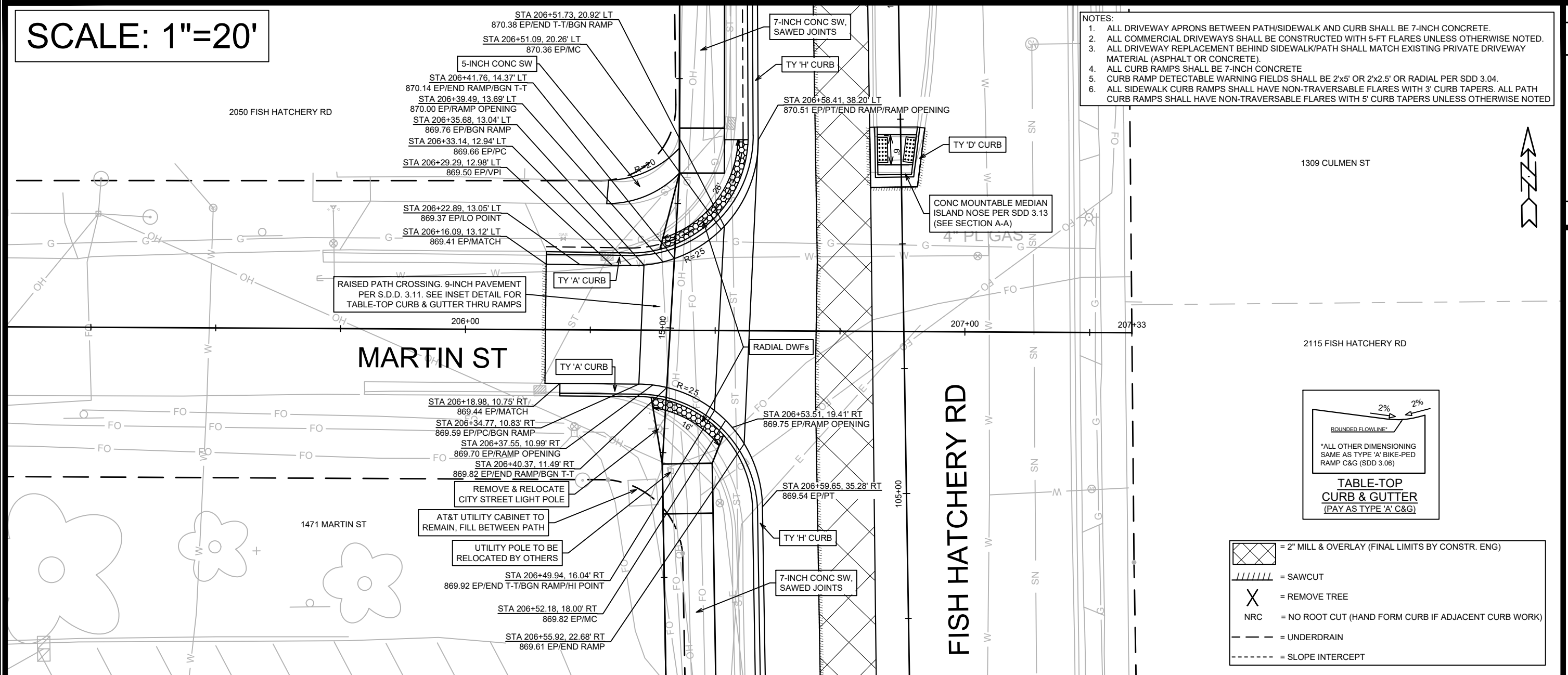


- NOTES:
- 1. ALL DRIVEWAY APRONS BETWEEN PATH/SIDEWALK AND CURB SHALL BE 7-INCH CONCRETE.
 - 2. ALL COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH 5-FT FLARES UNLESS OTHERWISE NOTED.
 - 3. ALL DRIVEWAY REPLACEMENT BEHIND SIDEWALK/PATH SHALL MATCH EXISTING PRIVATE DRIVEWAY MATERIAL (ASPHALT OR CONCRETE).
 - 4. ALL CURB RAMPS SHALL BE 7-INCH CONCRETE
 - 5. CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'x5' OR 2'x2.5' OR RADIAL PER SDD 3.04.
 - 6. ALL SIDEWALK CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 3' CURB TAPERS. ALL PATH CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 5' CURB TAPERS UNLESS OTHERWISE NOTED

	= 2" MILL & OVERLAY (FINAL LIMITS BY CONSTR. ENG)
	= SAWCUT
	= REMOVE TREE
NRC	= NO ROOT CUT (HAND FORM CURB IF ADJACENT CURB WORK)
- - -	= UNDERDRAIN
- - - - -	= SLOPE INTERCEPT

10153		MADISON, WI		7431	
WRIGHT MIDDLE SCHOOL WIDENED SIDEWALK - PLAN DETAILS		CANNONBALL PATH: PHASE 6		CONTRACT NO:	
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		10153		PD-2	

SCALE: 1"=20'



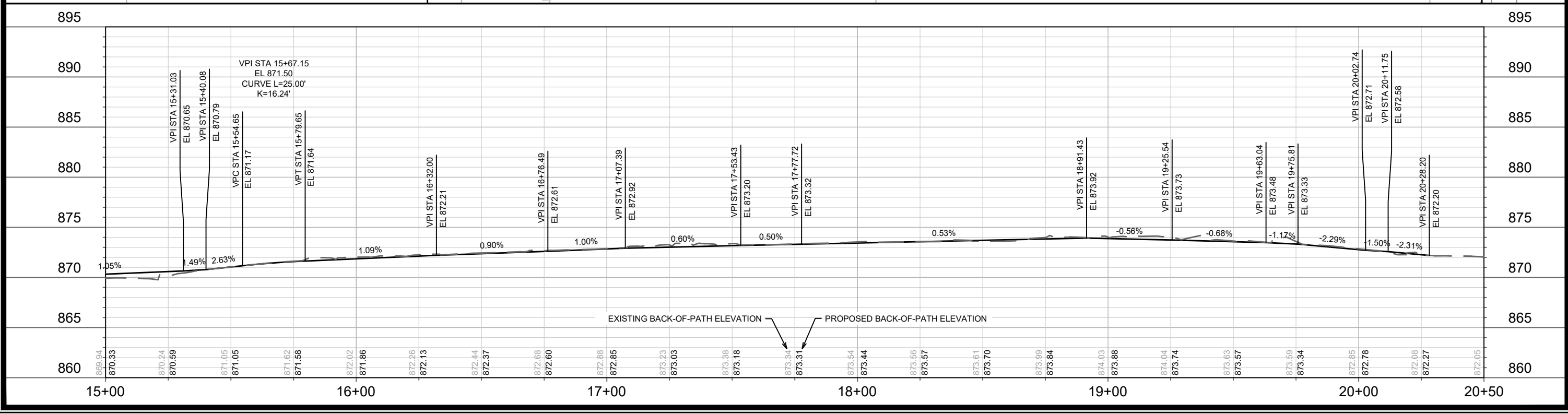
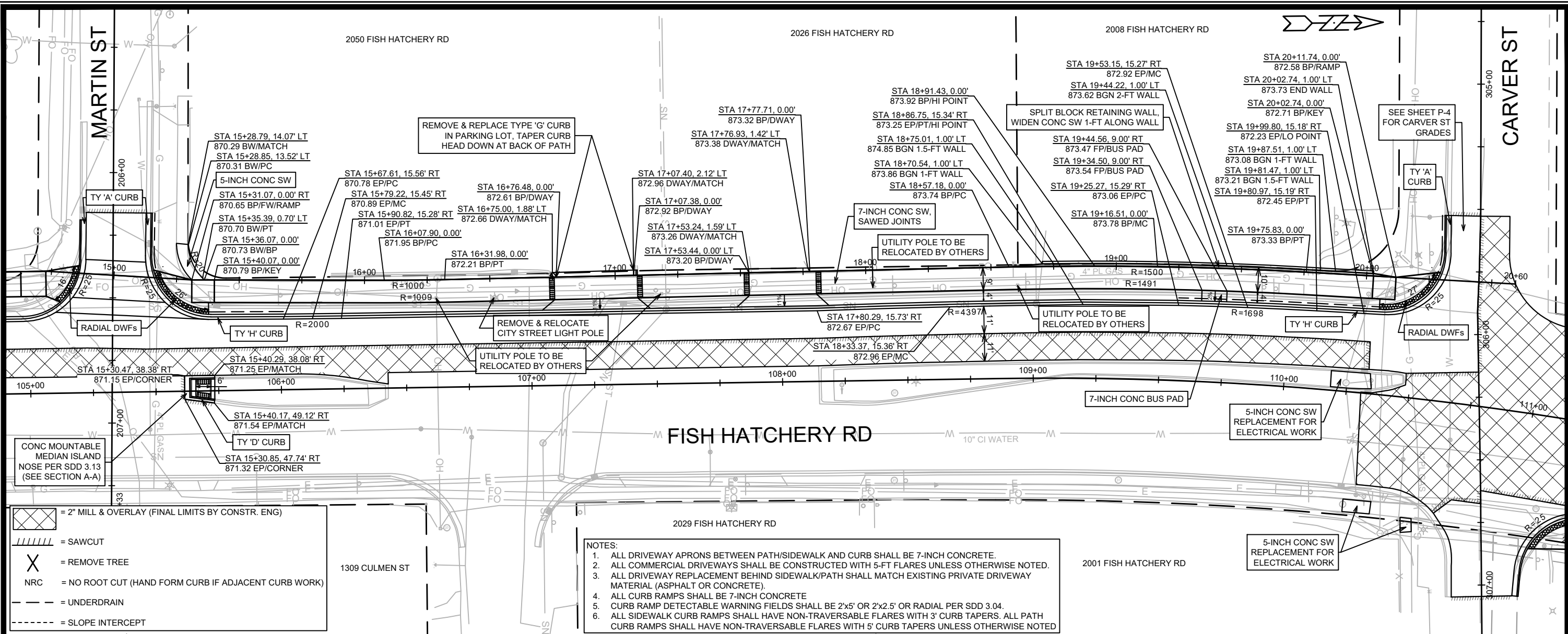
- NOTES:
1. ALL DRIVEWAY APRONS BETWEEN PATH/SIDEWALK AND CURB SHALL BE 7-INCH CONCRETE.
 2. ALL COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH 5-FT FLARES UNLESS OTHERWISE NOTED.
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 4. ALL CURB RAMPS SHALL BE 7-INCH CONCRETE
 5. CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'x5' OR 2'X2.5' OR RADIAL PER SDD 3.04.
 6. ALL SIDEWALK CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 3' CURB TAPERS. ALL PATH CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 5' CURB TAPERS UNLESS OTHERWISE NOTED

10153	Designed By: AJC	Date: 5/27/2026	4:08 PM	Scale: 1" = 20'	P-2
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MARTIN ST - PLAN & PROFILE	10153
CANNONBALL PATH: PHASE 6	MADISON, WI
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CONTRACT NO:	7431

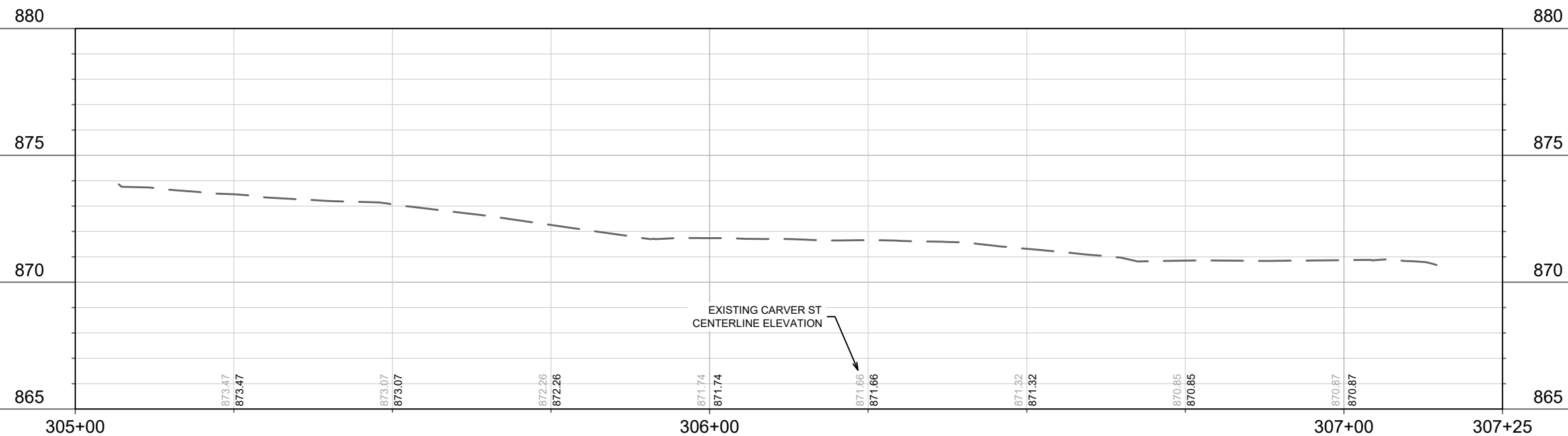
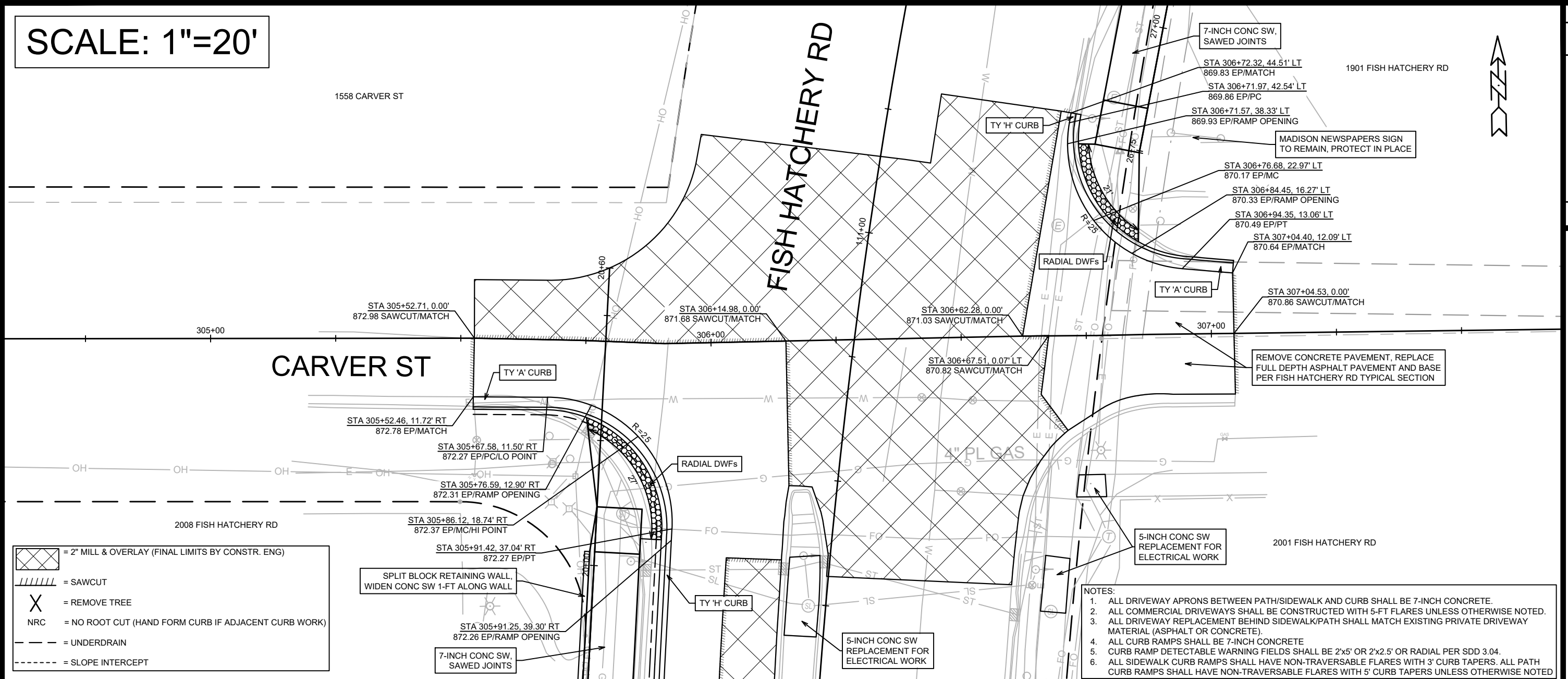


0153
P-2



10153	MADISON, WI	7431	CONTRACT NO:
CANNONBALL PATH (MARTIN ST TO CARVER ST) - PLAN & PROFILE			
CANNONBALL PATH: PHASE 6			
M:\DESIGN\Projects\10153\CAD\Fish Hatchery ROW - Streets\10153EN-FishHatcheryROW_PnPs.dwg			
10153			P-3

SCALE: 1"=20'

[illegible]

10153	MADISON, WI
CONTRACT NO: 7431	

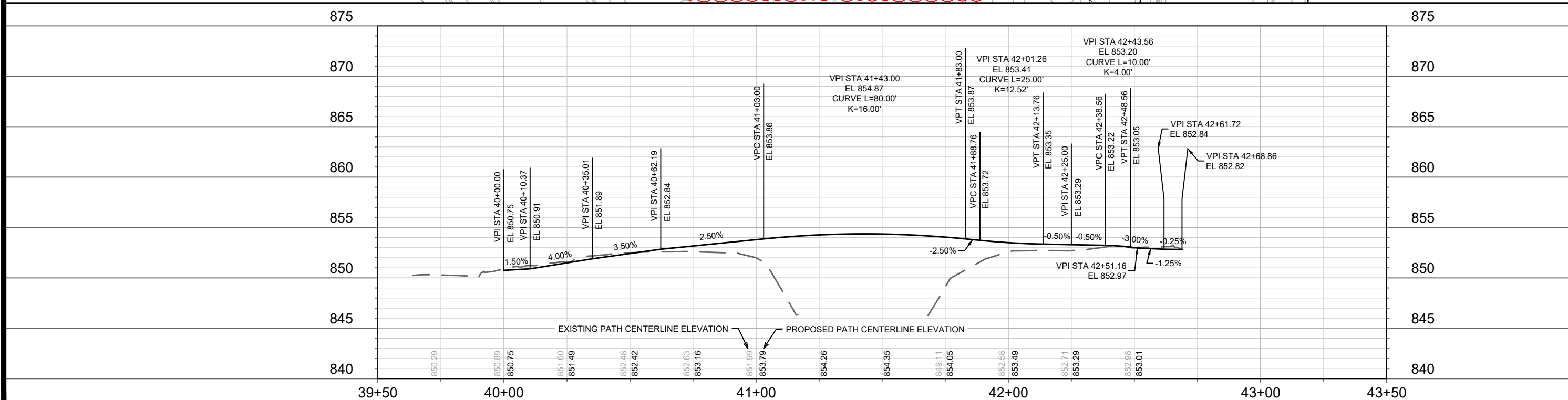
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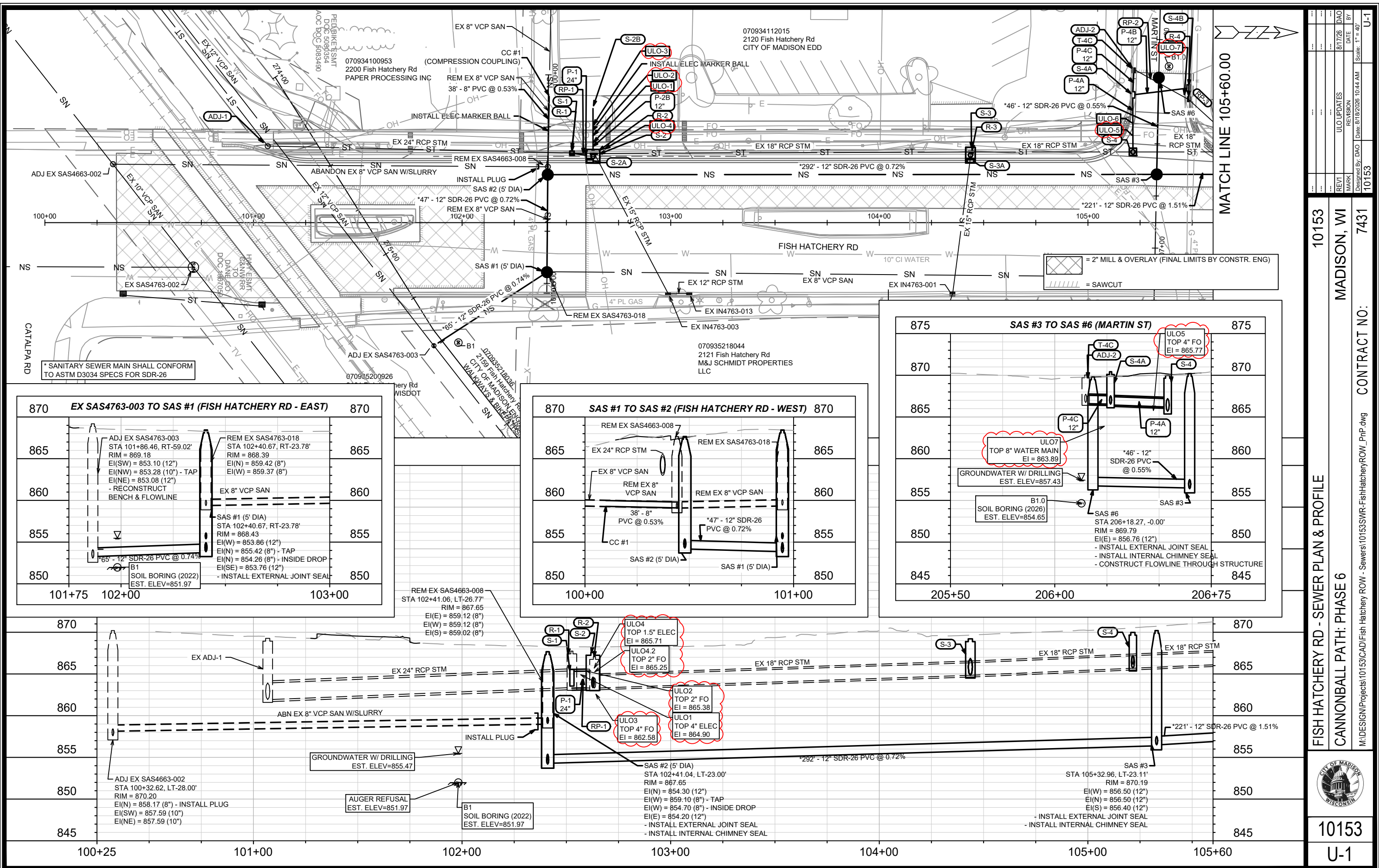
CARVER ST - PLAN & PROFILE
CANNONBALL PATH: PHASE 6

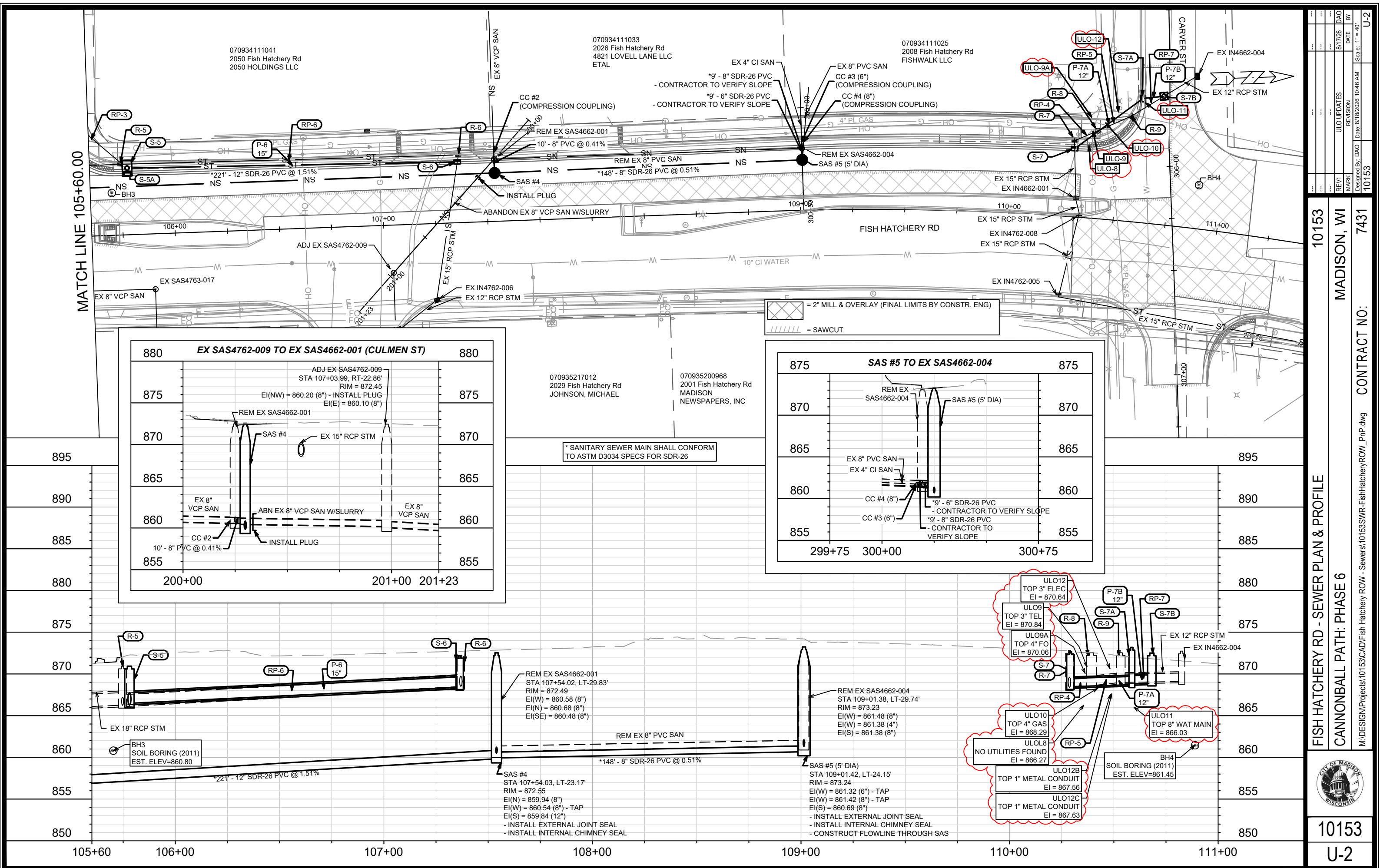


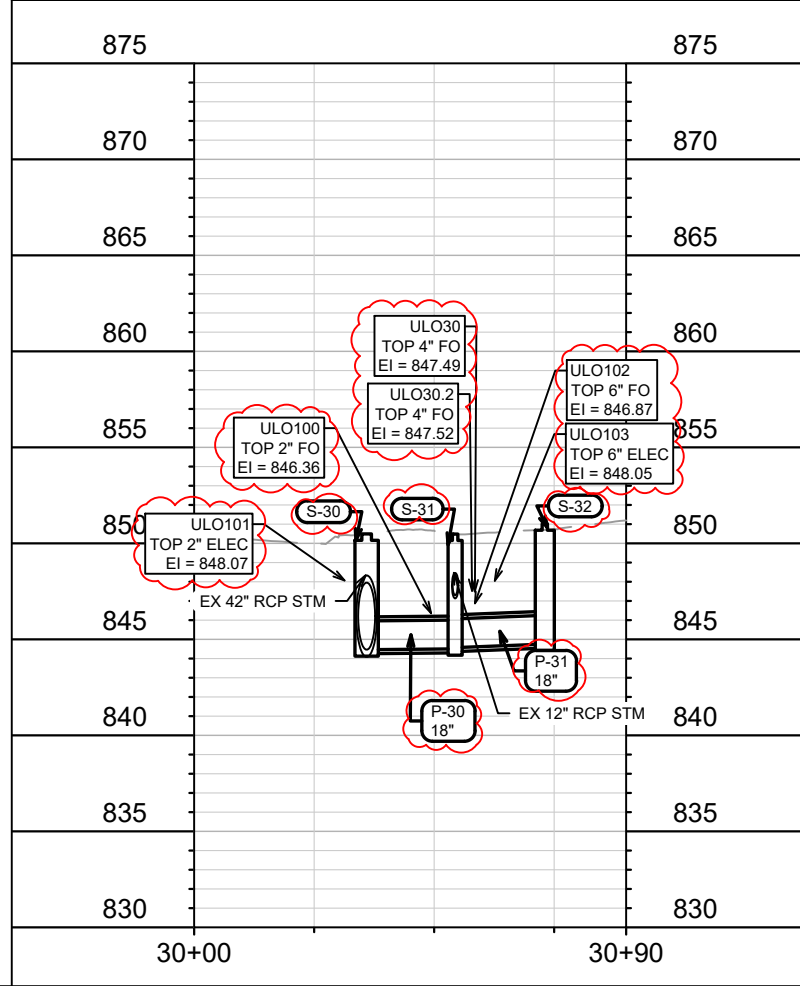
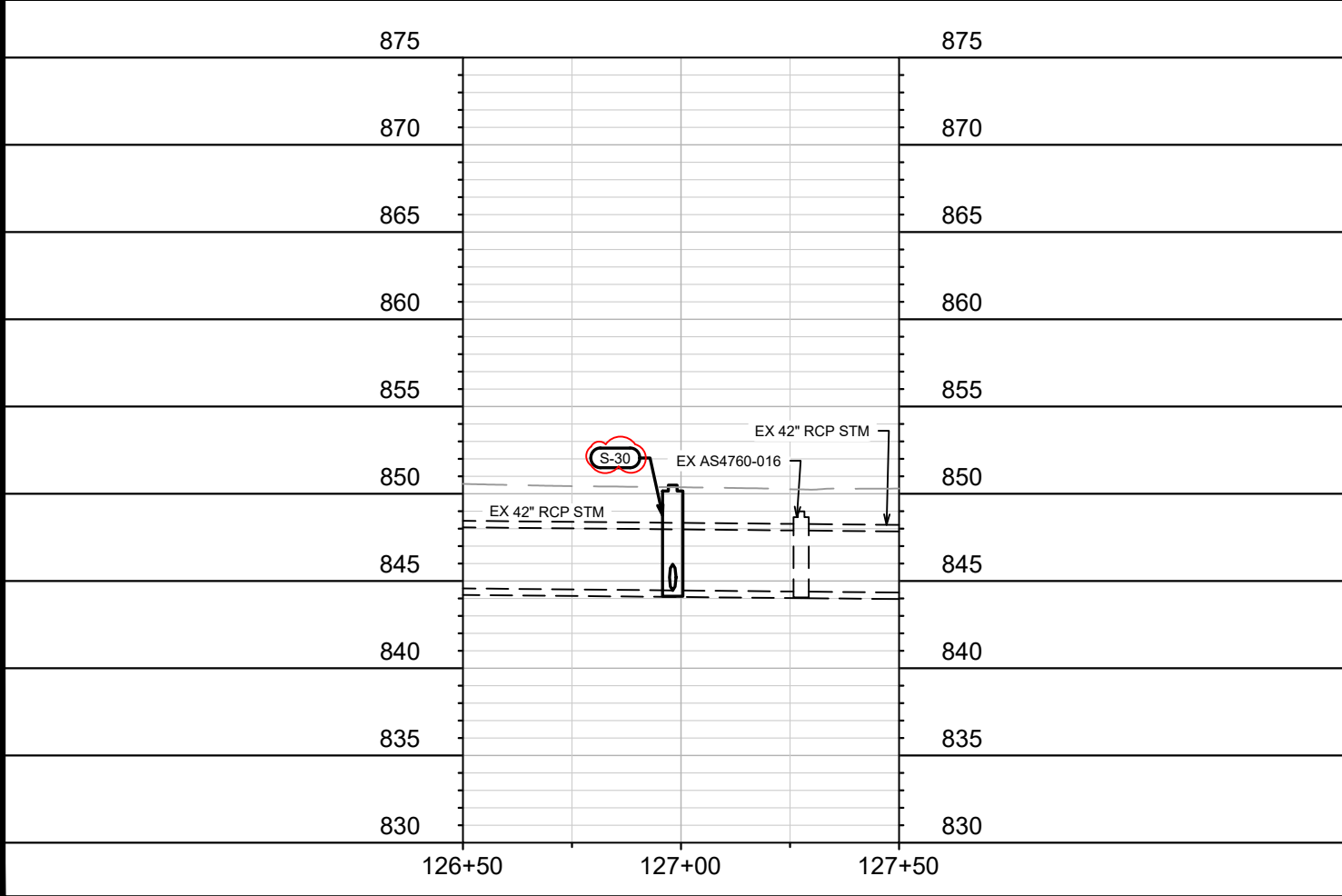
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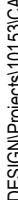
1. ALL DRIVEWAY APRONS BETWEEN PATH/SIDEWALK AND CURB SHALL BE 7-INCH CONCRETE.
2. ALL COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH 5-FT FLARES UNLESS OTHERWISE NOTED.
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4. ALL CURB RAMPS SHALL BE 7-INCH CONCRETE
5. CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'x5' OR 2'x2.5' OR RADIAL PER SDD 3.04.
6. ALL SIDEWALK CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 3' CURB TAPERS. ALL PATH CURB RAMPS SHALL HAVE NON-TRAVERSABLE FLARES WITH 5' CURB TAPERS UNLESS OTHERWISE NOTED









	10153	1717 FISH HATCHERY RD & PLAENERT DR - SEWER PLAN & PROFILE				10153
	U-3	CANNONBALL PATH: PHASE 6				MADISON, WI
	M:\DESIGN\Projects\10153\CAD\Fish Hatchery ROW - Sewers\10153SWR-FishHatcheryROW_PnP.dwg					
	CONTRACT NO:					7431
		MARK	REVISION	DATE	BY	
		REV1	STORM & ULO UPDATES	8/17/26	DAO	
		Designed By: DAO		Date: 8/18/2026	10:52 AM	
		10153		Scale: 1" = 40'		
						U-3

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
FISH HATCHERY RD						
SAS #1	102+40.67	RT-23.78	868.43	853.76	14.67	5' DIA SAS; [1][4]
SAS #2	102+41.04	LT-23.00	867.65	854.20	13.45	5' DIA SAS; [1][2][4]
CC #1	102+41.74	LT-60.86	-	859.30	-	[5]
SAS #3	105+32.96	LT-23.11	870.19	856.40	13.79	[1][2]
SAS #4	107+54.03	LT-23.17	872.55	859.84	12.71	[1][2]
CC #2	107+54.03	LT-32.90	-	860.58	-	[5]
SAS #5	109+01.42	LT-24.15	876.24	860.69	15.55	5' DIA; [1][2][3]
CC #3	109+01.35	LT-32.71	-	861.41	-	[5]
CC #4	109+02.24	LT-32.69	-	861.51	-	[5]

MARTIN ST

SAS #6	206+18.27	CL	869.79	856.76	13.03	[1][2][3]
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SANITARY STRUCTURE REMOVALS

STRUC ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<u>FISH HATCHERY RD</u>						
SAS4763-018	102+40.67	RT-23.78	868.39	859.37	9.02	
SAS4663-008	102+41.06	LT-26.77	867.65	859.02	8.63	
SAS4662-001	107+54.02	LT-29.83	872.49	860.48	12.01	
SAS4662-004	109+01.38	LT-29.74	873.23	861.38	11.85	

SANITARY STRUCTURE ADJUSTMENTS

STRUC ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP TOC	ADJ (FT)	NOTES
FISH HATCHERY RD						
SAS4663-002	100+32.62	LT-28.00	870.20	870.20	0.00	INSTAL
SAS4763-003	101+86.46	RT-59.02	869.18	869.18	0.00	TAP; [6]

SPECIFIC NOTES

- [1] INSTALL EXTERNAL JOINT SEAL
- [2] INSTALL INTERNAL CHIMNEY SEAL
- [3] CONSTRUCT FLOWLINE THROUGH STRUCTURE
- [4] INSTALL INSIDE DROP
- [5] INSTALL COMPRESSION COUPLING (CC) TO EX PRVT LATERAL; FIELD VERIFY INVERT
- [6] RECONSTRUCT BENCH & FLOWLINE

PROPOSED SANITARY PIPES

<u>FROM</u> (DNSTM)	<u>TO</u> (UPSTM)	<u>DWNSTRM</u> E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<u>FISH HATCHERY RD</u>								
SAS4763-003	SAS #1	853.28	853.76	65	0.74%	12"	SDR-26	
SAS #1	SAS #2	853.86	854.20	47	0.72%	12"	SDR-26	
SAS #2	SAS #3	854.30	856.40	292	0.72%	12"	SDR-26	
SAS #2	CC #1	859.10	859.30	38	0.53%	8"	SDR-26	[5]
SAS #3	SAS #4	856.50	859.84	221	1.51%	12"	SDR-26	
SAS #4	CC #2	860.54	860.58	10	0.41%	8"	SDR-26	[5]
SAS #4	SAS #5	859.94	860.69	148	0.51%	8"	SDR-26	
SAS #5	CC #3	861.32	861.41	9	1.04%	6"	SDR-26	[5]
SAS #5	CC #4	861.42	861.51	9	1.04%	8"	SDR-26	[5]

MARTIN ST

SAS #3	SAS #6	856.50	856.76	46	0.55%	12"	SDR-26
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SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	PIPE SIZE	PIPE TYPE	NOTES
<u>FISH HATCHERY RD</u>							
SAS4663-008	SAS4763-018	51	N	0	8	VCP	
SAS4662-001	SAS4662-004	148	Y	148	8	PVC	

SANITARY PIPE ABANDONMENTS

ABANDON FROM	ABANDON TO	LGTH (FT)	PAID (Y/N)	ABN LGTH (FT)	CY SLURRY	PIPE SIZE	PIPE TYPE	NOTES
FISH HATCHERY RD								
SAS4663-002	SAS4663-008	208	Y	208	2.7 CY	8	VCP	SLURRY
SAS4762-009	SAS4662-001	73	Y	73	0.9 CY	8	VCP	SLURRY

10153		SANITARY SEWER SCHEDULE - FISH HATCHERY RD	10153				
		CANNONBALL PATH: PHASE 6	MADISON, WI				
				MARK	REVISION	DATE	BY
				DESIGNED BY: DAO			
U-4	10153	CONTRACT NO: 7431		10153			U-4

STORM SEWER SCHEDULE

* REVISION 1 - 8/17/2026 DAO

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
FISH HATCHERY RD																		
S-1	102+52.67	LT-33.34	24" COLLAR	-	863.30	-	[1]	P-1	S-1	S-2	863.30	863.35	10	6	0.80%	24	RCP	[11]
S-2	102+62.77	LT-31.79	6X6 STORM SAS	867.57	863.30	4.27	FP; W/R-1550; [2]	P-2B	S-2	S-2B	863.40	863.51	23	21	0.53%	12	RCP	
S-2A	102+61.26	LT-29.78	S-2 CASTING LOCATION	867.57	-	-	LP; R-3067-7004VB	P-6	S-5	S-6	866.48	868.40	158	155	1.24%	15	RCP	
S-2B	102+62.73	LT-55.42	12" PIPE CAP	-	863.40	-	[11]	P-7A	S-7	S-7A	868.47	868.70	41	37	0.61%	12	RCP	
S-3	104+43.67	LT-32.35	4X7 STORM SAS	869.2	864.84	4.36	FP; W/R-1550; [3]	P-7B	S-7A	S-7B	868.80	868.90	10	8	1.29%	12	RCP	
S-3A	104+43.68	LT-29.85	S-3 CASTING LOCATION	869.17	-	-	W/R-3067-7004V											
S-4	105+21.57	LT-33.91	3X3 STORM SAS	869.98	865.68	4.30	FP; W/R-1550; [4]											
S-5	105+78.02	LT-31.97	4X7 STORM SAS	870.93	866.26	4.67	FP; W/R-1550; [5]											
S-5A	105+78.03	LT-29.47	S-5 CASTING LOCATION	871	-	-	FP; W/R-3067-7004V											
S-6	107+36.36	LT-29.16	H INLET	872.22	868.40	3.82	FP; W/R-3290-A; [6]											
S-7	110+29.18	LT-32.66	H INLET	872.66	868.29	4.37	LP, FP; W/R-3067-7004VB; [7]											
S-7A	110+58.63	LT-59.34	H INLET	873.18	868.70	4.48	LP; W/R-3067-7004VB											
S-7B	110+68.23	LT-61.44	3X3 STORM SAS	872.5	868.90	3.60	FP; W/R-1550; [12]											
MARTIN ST																		
S-4A	206+26.75	RT-12.29	H INLET	870.42	866.44	3.98	W/R-3067-7004V	P-4A	S-4	S-4A	866.19	866.44	27	24	1.03%	12	RCP	
S-4B	206+22.91	LT-14.55	H INLET	870.28	867.18	3.10	LP, FP; W/R-3067-7004VB	P-4B	S-4A	S-4B	866.54	867.18	27	25	2.55%	12	RCP	
T-4C	206+14.80	RT-12.00	12" TAP	-	866.60	-		P-4C	S-4A	T-4C	866.54	866.60	12	9	0.67%	12	RCP	
FISH HATCHERY RD AT WRIGHT MIDDLE SCHOOL																		
S-30	126+98.09	RT-35.63	4X4 STORM SAS	850.49	844.46	6.03	FP; W/R-1550; [8]	* P-30	S-30	S-31	844.46	844.51	18	15	0.32%	18	RCP	
S-31	126+95.77	RT-53.92	H INLET	850.48	844.51	5.97	FP; W/R-1878-B7G; [9]	* P-31	S-31	S-32	844.57	844.76	19	16	1.18%	18	RCP	
S-32	126+93.21	RT-72.42	TERRACE INLET TYPE 3	851.01	844.76	6.25	FP; [10]											

SPECIFIC NOTES

- [1] REPLACE REMOVED STRUCTURE WITH CONCRETE COLLAR
- [2] CENTER OF STRUCTURE GIVEN IN CHART; S-2A FOR INLET CASTING; RECONNECT TO EX 24" RCP, EI = 863.30 (N); RECONNECT EX 15" RCP, EI = 863.30
- [3] CENTER OF STRUCTURE GIVEN IN CHART; S-3A FOR INLET CASTING;RECONNECT TO EX 24" RCP, EI = 864.84 (S)
- [4] RECONNECT TO EX 24" RCP, EI = 865.68 (S)
- [5] CENTER OF STRUCTURE GIVEN IN CHART; S-5A FOR INLET CASTING; RECONNECT TO EX 24" RCP, EI = 866.26 (S)
- [6] RECONNECT TO EX 15" RCP, EI = 868.50 (E)
- [7] RECONNECT TO EX 15" RCP, EI = 868.29 (E)
- [8] RECONNECT TO EX 42" RCP, EI = 843.71 (N)
- [9] RECONNECT TO EX 12" RCP, EI = 847.29 (N) & EI = 847.29 (S)
- [10] SET GRATE 0.2' BELOW CURB (TOC); INSTALL 20' OF CURB
- [11] NEW PRIVATE LATERAL; CAP IS INCIDENTAL TO PIPE; PLACE ELECTRONIC MARKER BALL
- [12] RECONNECT EX 12" RCP, EI = 869.04 (N)

STANDARD NOTES:

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- 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.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.
- 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
- 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

10153

MADISON, WI

7431

STORM SEWER SCHEDULE - PROPOSED STORM

CANNONBALL PATH: PHASE 6



10153

U-5

REV1

STORM & ULO UPDATES

8/17/26

DAO

MARK

REVISION

DATE

BY

DESIGNED BY: DAO

10153

U-5

STORM SEWER SCHEDULE

*** REVISION 1 - 8/17/2026 DAO**

STORM STRUCTURE ADJUSTMENTS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	EX TOC	PROP TOC	ADJ (FT)	NOTES
FISH HATCHERY RD							
ADJ-1	AS4663-007	101+06.85	LT-36.65	869.26	869.05	-0.21	[2]
ADJ-3	IN4760-028	131+32.94	RT-36.98	850.88	850.68	-0.20	
ADJ-4	IN4760-015	131+17.33	RT-53.17	850.29	850.25	-0.04	
ADJ-30	NO ID	127+11.94	RT-53.78	850.56	850.60	0.04	
ADJ-31	NO ID	126+85.39	RT-54.01	850.44	850.60	0.16	

MARTIN ST

ADJ-2	IN4663-004	206+14.82	RT-12.00	870.03	869.83	-0.20	[1]
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STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
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FISH HATCHERY RD

R-1	IN4663-006	102+52.67	LT-33.34	4X4 STORM SAS INLET	4.37
R-2	IN4663-012	102+63.48	LT-33.20	4X4 STORM SAS INLET	3.78
R-3	IN4663-013	104+44.03	LT-33.75	INLET	5.31
R-5	IN4663-001	105+74.74	LT-34.01	INLET	4.72
R-6	IN4662-006	107+36.93	LT-32.26	INLET	3.69
R-7	IN4662-007	110+28.73	LT-37.42	INLET	4.44
R-8	IN4662-003	110+39.32	LT-42.04	3X3 STORM SAS	4.06
R-9	IN4662-004	110+53.38	LT-51.08	INLET	3.56

MARTIN ST

R-4	IN4663-014	206+28.35	LT-14.62	INLET	3.39
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ULO SCHEDULE

ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	NOTES
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FISH HATCHERY RD

ULO-1	102+62.76	LT-38.26	4" ELEC
ULO-2	102+62.75	LT-41.68	2" FO
ULO-3	102+62.74	LT-46.54	4" FO
ULO-4	102+68.09	LT-35.23	1.5" ELEC & 2" FO
ULO-5	105+21.54	LT-41.74	4" FO
ULO-6	105+21.52	LT-47.70	NO UTILITIES LOCATED
ULO-7	105+46.21	LT-60.95	8" WAT MAIN
ULO-8	110+35.61	LT-34.95	NO UTILITIES LOCATED
ULO-9	110+36.87	LT-41.93	3" TEL
ULO-9A	110+36.24	LT-48.05	4" FO
ULO-10	110+42.33	LT-46.39	4" GAS
ULO-11	110+59.71	LT-57.51	8" WAT MAIN
ULO-12	110+48.21	LT-51.52	(ULO12) 3" ELEC, (ULO12B) 1" CONDUIT, (ULO12C) 1" CONDUIT

FISH HATCHERY RD AT WRIGHT MIDDLE SCHOOL

ULO-30	126+95.23	RT-57.55	4" ELEC
ULO-100	126+95.50	RT-49.01	2" FO
ULO-101	126+96.97	RT-30.85	2" ELEC
ULO-102	126+94.26	RT-57.87	6" FO
ULO-103	126+94.38	RT-62.08	6" ELEC

SPECIFIC NOTES

[1] TAP W/P-4C

[2] EX 6X6 STM SAS W/R-3067-7004 & R-1550; ADJUST R-1550 CASTING GRADE FOR NEW PATH; ADJUST R-3067 FOR CURB REPLACEMENT

STORM PIPE REMOVALS

PIPE REM NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	PIPE SIZE	PIPE TYPE	NOTES
<u>FISH HATCHERY RD</u>								
RP-1	R-1	R-2	11.00	N	0	24"	RCP	
RP-4	R-7	R-8	12.00	N	0	12"	RCP	
RP-5	R-8	R-9	17.00	N	0	12"	RCP	
RP-6	R-5	R-6	162.00	Y	162	15"	RCP	
RP-7	R-9	S-7A	19.00	Y	19	12"	RCP	

MARTIN ST

RP-2	R-4	ADJ-1	30.00	Y	30	12"	RCP
RP-3	R-5	R-4	36.00	Y	36	12"	RCP

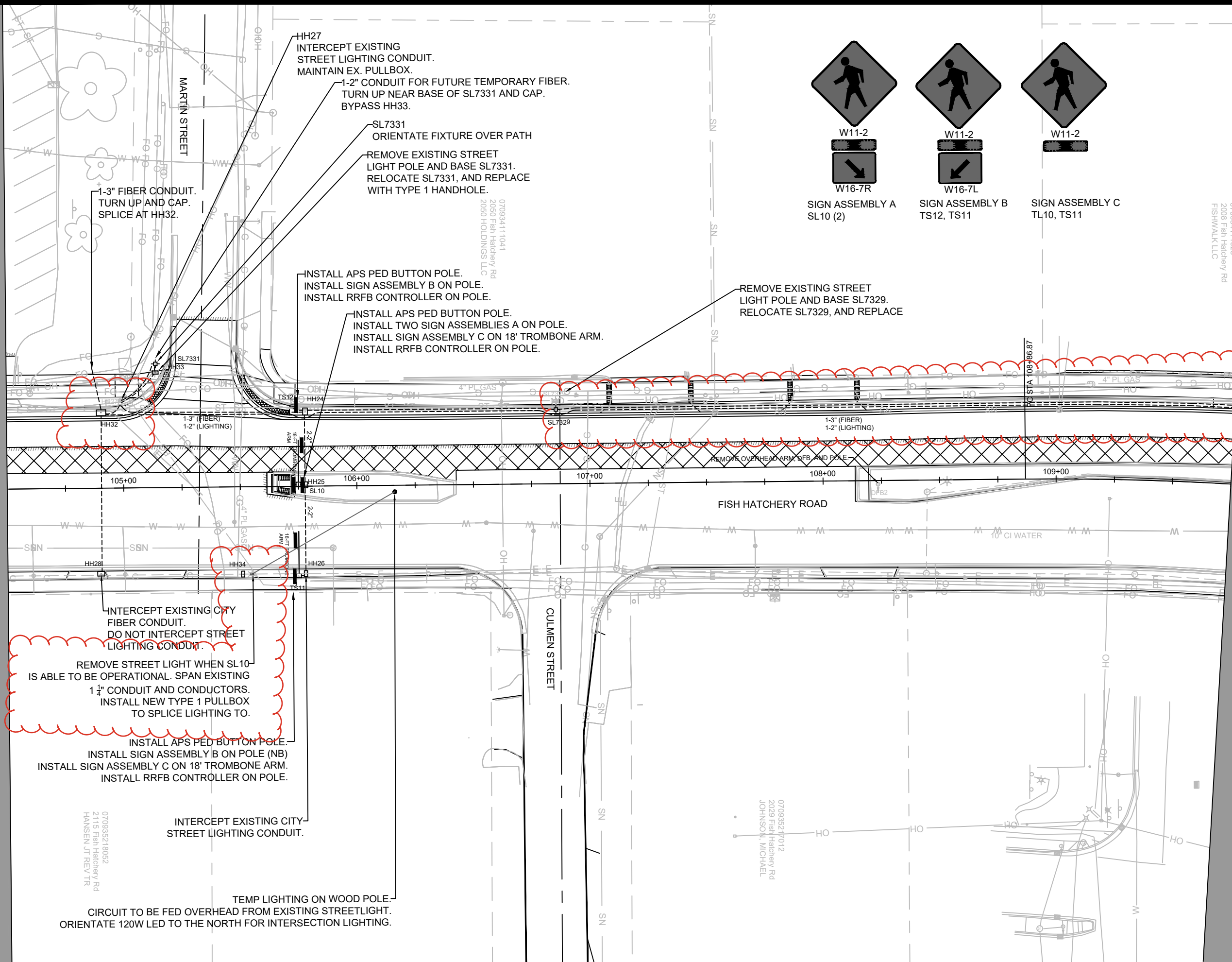
	10153	U-6
	STORM SEWER SCHEDULE - STORM ADJUST, REMOVE, ABANDON & ULO 10153	
	CANNONBALL PATH: PHASE 6	
	MADISON, WI	
DESIGNED BY: DAO		
CONTRACT NO: 7431		
10153		
U-6		

ELECTRICAL NOTES:

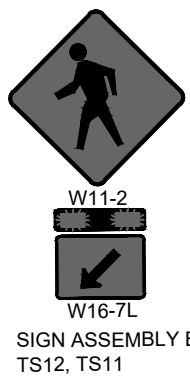
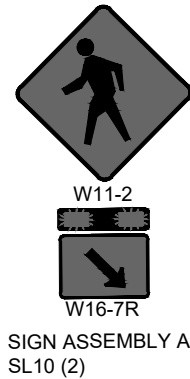
1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONSTRUCTOR SHALL NOTIFY JERRY SCHIPPA (608 267-969), CITY OF MADISON TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT, BASE, OR PULLBOX LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2025 EDITION" AND ALL ADDENDUMS THERETO.
3. ALL CONDUITS SHALL BE PVC, SCHEDULE 80 BENEATH PAVEMENT, AND SCHEDULE 40 CONDUIT OTHERWISE. PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS PER STNADARD SPECIFICATION.
4. THE CONTRACTOR SHALL CALL CHAD VEINOT (608 285-2397) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF PLACING CONCRETE BASES, INSTALLING PULL BOXES, OR BURYING CONDUIT TO ARRANGE FOR INSPECTION.
5. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
6. EXISTING STREETLIGHTS SHALL BE MAINTAINED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ARRANGE FOR PICKUP OF THE FOLLOWING CITY FURNISHED MATERIALS BY CALLING ED SMITH (608 266-9034), AT THE CITY OF MADISON TRAFFIC ENGINEERING SHOP LOCATED AT 1120 SAYLE STREET.
 - 7.1. (16) - $\frac{3}{4}$ " x 19" ANCHOR BOLTS FOR TYPE GR BASES.
 - 7.2. (36) - $\frac{3}{4}$ " x 24" ANCHOR BOLTS FOR LB-2 BASES.
 - 7.3. (16) - 1" x 40" ANCHOR BOLTS FOR TYPE LB-3R BASES.
 - 7.4. (24) - 1 $\frac{1}{4}$ " x 48" ANCHOR BOLTS FOR TYPE LB-8R BASES.
 - 7.5. TS2 TRAFFIC SIGNAL CONTROL CABINET.
 - 7.6. OPTICAL SIGNAL PRE-EMPTION RECIEVERS.
 - 7.7. ACCESSIBLE PEDESTRIAN SIGNAL BUTTONS.
 - 7.8. RECTANGULAR RAPID FLASHING BEACON DEVICES.
8. TRAFFIC ENGINEERING SHALL ASSIST WITH THE PLACEMENT OF NON-INTRUSIVE DETECTION ZONE PLACEMENT AND PROGRAMMING DURING TRAFFIC SIGNAL TURN ON.
9. STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS CAN BE FOUND AT THE FOLLOWING WEB ADDRESS
<https://www.cityofmadison.com/engineering/developers-contractors/standard-specifications>

ELECTRICAL PLANS		10153		MADISON, WI		7431		CONTRACT NO:		10153		E - 1	
CANNONBALL PATH: PHASE 6													
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10153													
E - 1													

MATCHLINE - (1)



MATCHLINE - (2)



070934111025
2008 Fish Hatchery Rd
FISHWALK LLC

ELECTRICAL PLANS		10153	
CANNONBALL PATH: PHASE 6		MADISON, WI	
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CITY OF MADISON WISCONSIN		E - 3	
10153		E - 3	

070935217012
2029 Fish Hatchery Rd
JOHNSON, MICHAEL

070935218052
2115 Fish Hatchery Rd
HANSEN JT REV TR

070934111041
2050 HOLDINGS LLC

070934111025
2008 Fish Hatchery Rd
FISHWALK LLC

10153

8/12/26
JLS
DATE

FIELD REVISION
#1

REVISION
DATE

Designed By: JLS

Scale: 1" = 40'

ELECTRICAL NOTES:
- FOR TRAFFIC SIGNAL CONDUITS AT
CARVER & FISH HATCHERY ROAD, SEE
SHEET E-9.

MEDIAN CONCRETE TO BE REMOVED AND REPLACED TO INSTALL CONDUIT.

INSTALL 1 TYPE
M BASE AND 1
TYPE P BASE.

USE EXISTING CONDUITS CROSSING FISH
HATCHERY ROAD. EXCEPT BETWEEN HH19
AND EXISTING HH IN SOUTH MEDIAN.

FISH HATCHERY ROAD

HH13
RELOCATED TO
NEARBY EXHH12.

TS7 TO BE LB3-R NOT TYPE G BASE. 5
SIDEWALK PANELS TO BE REMOVED AND
REPLACED FOR CONDUIT TRENCHING

INTERCEPT ALL CONFIDENTIAL INFORMATION IN EXISTING PULLBOXES

070935200968
2001 Fish Hatchery Rd
MADISON NEWSPAPERS, INC

~~OVERHEAD TEMP. LIGHTING TO END AT SL7324.~~
~~MAINTAIN EXISTING STREET LIGHTS AND CIRCUITS HEADING NORTH.~~

~~TEMP LIGHTING ON WOOD POLE.
CIRCUIT TO COME OUT OF PULLBOX,
OVERHEAD TO SUT324. HO
TWIN 150W LED TEMP LIGHTING.~~

070935200976
1901 Fish Hatchery Rd
MADISON NEWSPAPERS INC
TAX DEPT

BICYCLE PATH & WALKWAY ESMT PER
DOC 1737834 - PARTIAL RELEASE OF ESMT
DOC 1921324

[illegible]

10153

MADISON, WI

7431

CONTRACT NO:

ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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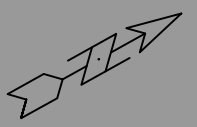
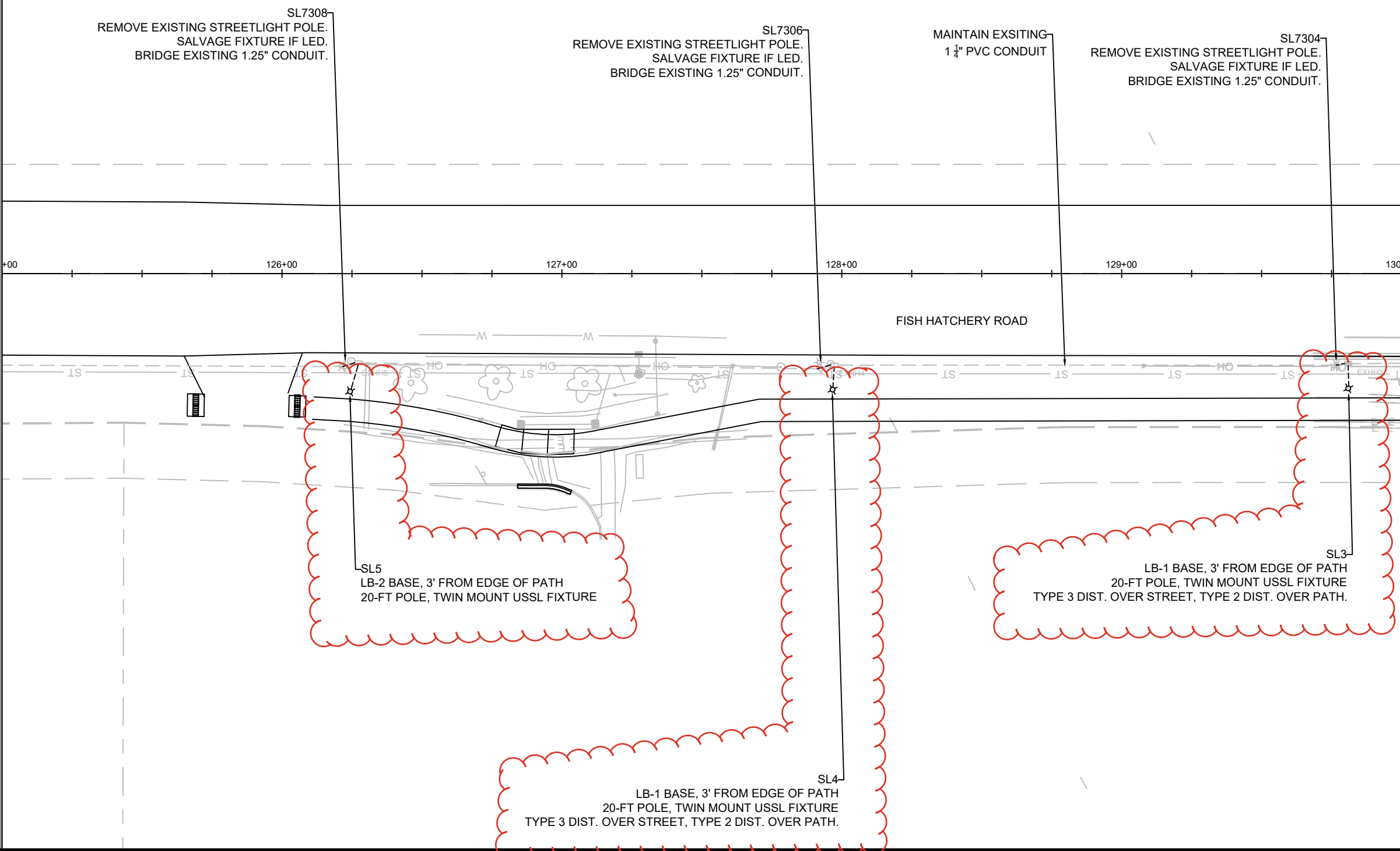


10153

E - 4

MATCHLINE - (5)

MATCHLINE - (6)

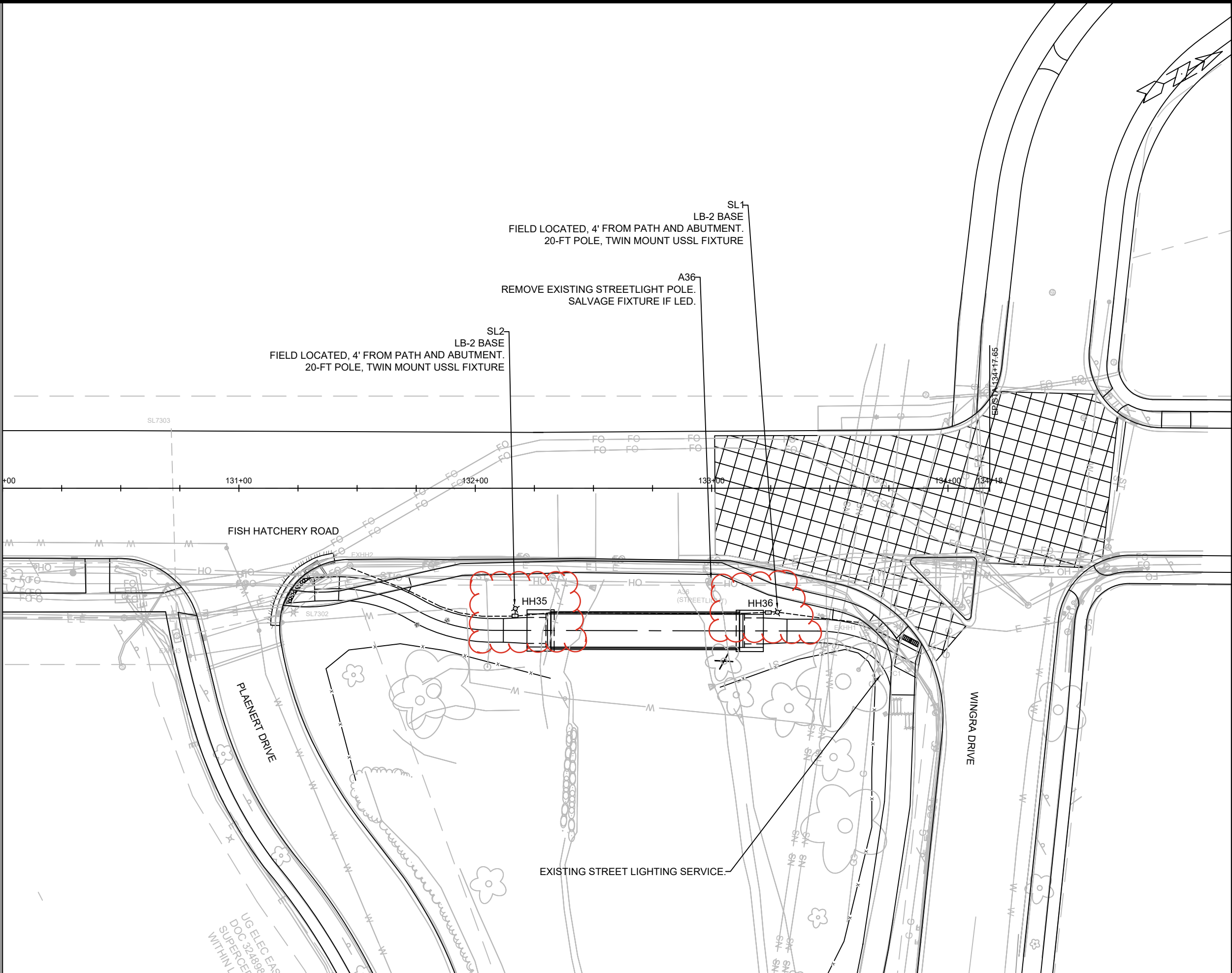


DESIGNED BY	DATE	BY
JLS	8/17/2026	JLS
MARK	REVISION	
#1	FIELD ADJUSTMENT	8/17/26
10153	DATE	1" = 40'
10153	Scale:	E - 7

10153	10153
MADISON, WI	7431
CANNONBALL PATH: PHASE 6	CONTRACT NO:
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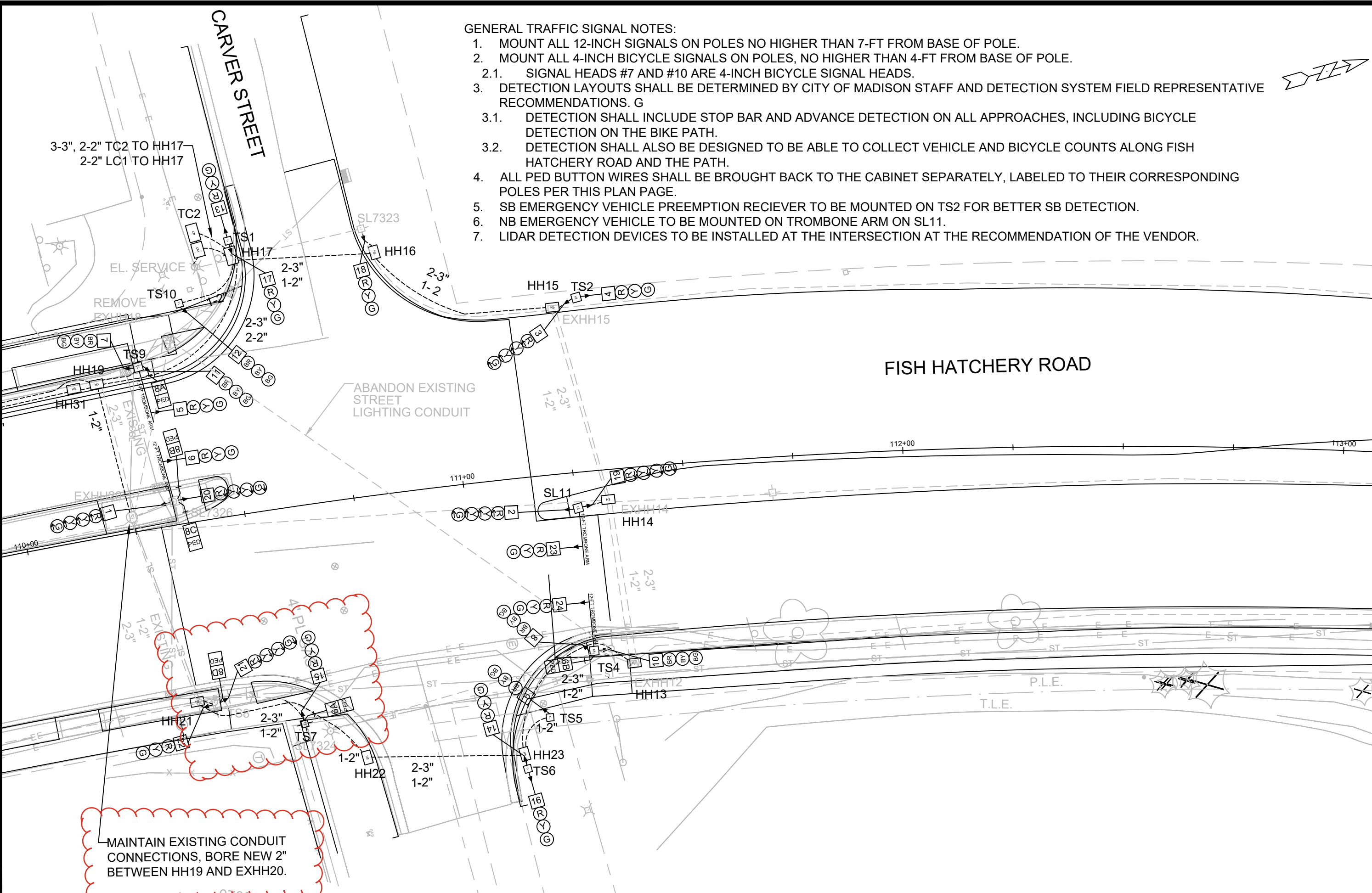
MATCHLINE - (6)



	10153	10153
	E - 8	
ELECTRICAL PLANS		
CANNONBALL PATH: PHASE 6		
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MADISON, WI		
CONTRACT NO: 7431		
10153		
E - 8		
FIELD ADJUSTMENT		
REVISION		
DATE		
BY		
JLS		
8/12/26		
10153		
E - 8		

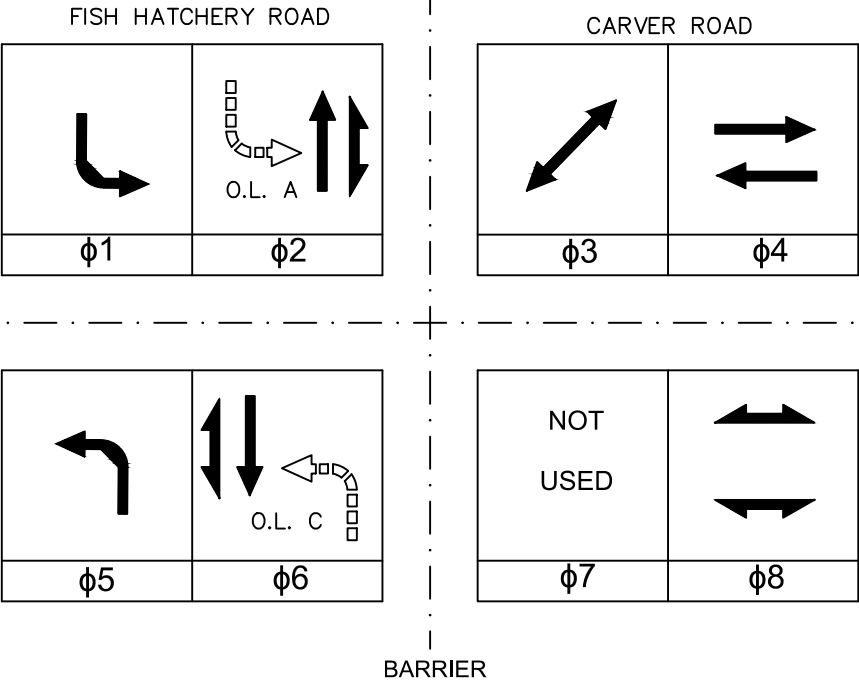
GENERAL TRAFFIC SIGNAL NOTES:

1. MOUNT ALL 12-INCH SIGNALS ON POLES NO HIGHER THAN 7-FT FROM BASE OF POLE.
2. MOUNT ALL 4-INCH BICYCLE SIGNALS ON POLES, NO HIGHER THAN 4-FT FROM BASE OF POLE.
 - 2.1. SIGNAL HEADS #7 AND #10 ARE 4-INCH BICYCLE SIGNAL HEADS.
3. DETECTION LAYOUTS SHALL BE DETERMINED BY CITY OF MADISON STAFF AND DETECTION SYSTEM FIELD REPRESENTATIVE RECOMMENDATIONS. G
 - 3.1. DETECTION SHALL INCLUDE STOP BAR AND ADVANCE DETECTION ON ALL APPROACHES, INCLUDING BICYCLE DETECTION ON THE BIKE PATH.
 - 3.2. DETECTION SHALL ALSO BE DESIGNED TO BE ABLE TO COLLECT VEHICLE AND BICYCLE COUNTS ALONG FISH HATCHERY ROAD AND THE PATH.
4. ALL PED BUTTON WIRES SHALL BE BROUGHT BACK TO THE CABINET SEPARATELY, LABELED TO THEIR CORRESPONDING POLES PER THIS PLAN PAGE.
5. SB EMERGENCY VEHICLE PREEMPTION RECIEVER TO BE MOUNTED ON TS2 FOR BETTER SB DETECTION.
6. NB EMERGENCY VEHICLE TO BE MOUNTED ON TROMBONE ARM ON SL11.
7. LIDAR DETECTION DEVICES TO BE INSTALLED AT THE INTERSECTION AT THE RECOMMENDATION OF THE VENDOR.



ELECTRICAL PLANS		10153	MADISON, WI		7431
CANNONBALL PATH: PHASE 6		CONTRACT NO:			
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10153		E - 9			

	HEAD NUMBERS	FLASH	O.L. ASSIGNMENTS
φ1	SBLT	R	
φ2	NB	R	
φ3	BIKE		
φ4	EB/WB	R	
φ5	NBLT		
φ6	SB	R	
φ7	--		
φ8	--	R	
φ2 PED	E XWALK	--	SBLT FYA ON CH 9 YEL.
φ4 PED	--	--	
φ6 PED	W XWALK	--	SBLT FYA ON CH 11 YEL.
φ8 PED	N XWALK	--	
--	--	--	
--	--	--	
--	--	--	
--	--	--	



PREEMPTION ASSIGNMENTS			
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RESERVED		
2	RESERVED		
3	NB/SB EVP	A	2, 6
4	NOT USED		
5	NOT USED		
6	NOT USED		
7	NOT USED		
8	NOT USED		
9	NOT USED		
10	NOT USED		

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / φ	PHASE RECALL	PHASE ACTIVE
1	X		NONE	X
2	X	X	PED	X
3	X		NONE	X
4	X		NONE	X
5				X
6	X	X	PED	X
7				
8				X
9				
10				
11				
12				

PED DETECTOR NOTES:

- 901 [VACANT]
- 902 EAST PED BUTTONS, CROSSING CARVER
- 903 PED BUTTONS FOR DIAGONAL BIKE CROSSING
- 904 NORTH BUTTONS CROSSING FISH HATCHERY ROAD
- 905 [VACANT]
- 906 WEST PED BUTTONS, CROSSING CARVER
- 907 [VACANT]
- 908 SOUTH BUTTONS CROSSING FISH HATCHERY ROAD

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	X
RADIO	

DETECTION NOTES:

- 1. PED INPUTS ON 4 AND 8 WILL CALL BIKE PHASE 3
- 2. BIKE DETECTION CALLING PHASE 3 WILL NOT CALL PED PHASE 8.
- 3. PHASE 1 AND 5 WILL BE ALLOWED TO BE RE-SERVED IN SEPARATE LIGHTING CABINET
- 4. DETECTION TO BE PASSIVE VIDEO OR LIDAR DETECTION.

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION	
NONE	
FIBER	X
CELL MODEM	
PHONE	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
DETECTOR #(S)	3	1	7	5	11	9	15	13								
PHASE CALLED	3	1, 2	3	5, 6	2	2	6	6								
PHASE EXTENDED	3	1, 2	3	5, 6	2	2	6	6								
DISCONNECT TIME																
CALLING DELAY																
DIST. FROM STOP BAR																
LOOP FUNCTION	NB BIKE FRONT	SBLT	SB BIKE FRONT	NBLT	NB LL FRONT	NB RL FRONT	SB LL FRONT	SB RL FRONT								

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
DETECTOR #(S)	4	2	8	6	12	10	16	14								
PHASE CALLED	3	4	3	4	2	2	6	6								
PHASE EXTENDED	3	4	3	4	2	2	6	6								
DISCONNECT TIME																
CALLING DELAY																
DIST. FROM STOP BAR																
LOOP FUNCTION	NB BIKE REAR	EB	NB BIKE REAR	WB	NB LL REAR	NB RL REAR	SB LL REAR	SB RL REAR								

SIGNAL CABLE, IMSA-20-1, UNDERGROUND CONDUCTORS FISH HATCHERY ROAD & CARVER STREET																
FROM	TO	JUMPER	CABLE (CONDUCTORS)	SPARE CONDUCTORS	HEAD NUMBER	NEUTRAL	PHASE	GREEN	YELLOW (BALL OR ARROW)	FLASHING YELLOW ARROW	RED	WALK	DON'T WALK	PED BUTTON		
TC2	TS1		A(12-14)	5	13	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					17		4	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
TC2	SL7323		B(12-14)	8	18	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
TC2	TS2		C(12-14)	4	3	WHITE	1, OLE	GREEN/BLACK	ORANGE/BLACK	BLACK	RED/BLACK	-	-	-		
					4		2	GREEN	ORANGE	-	RED	-	-	-		
TC2	SL11		D(12-14)	3	2	WHITE	1, OLE	GREEN/BLACK	ORANGE/BLACK	BLACK	RED/BLACK	-	-	-		
					19		5, OLG	GREEN	ORANGE	BLUE/BLACK	RED	-	-	-		
			E(12-14)	8	23	WHITE	6	GREEN	ORANGE	-	RED	-	-	-		
					-		-	-	-	-	-	-	-	-		
TC2	TS4		F(12-14)	5	8	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					10		3	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
			G(12-14)	4	24	WHITE	6	GREEN	ORANGE	-	RED	-	-	-		
					6B		PED6	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS5		H(12-14)	7	9	WHITE	3	GREEN	ORANGE	-	RED	-	-	BLACK/WHITE		
					-		-	-	-	-	-	-	-	-		
TC2	TS6		I(12-14)	5	14	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					15		4	GREEN/BLACK	ORANGE/BLACK	-	RED/BLACK	-	-	-		
TC2	TS7		J(9-14)	5	15	WHITE	4	GREEN	ORANGE	-	RED	-	-	-		
					6A		PED6	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS8		K(12-14)	1	21	WHITE	5, OLG	GREEN/BLACK	ORANGE/BLACK	BLUE/BLACK	RED/BLACK	-	-	-		
					22		6	GREEN	ORANGE	-	RED	-	-	-		
					8D		PED8	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	SL7326		L(12-14)	3	1	WHITE	1, OLE	GREEN	ORANGE	BLUE/BLACK	RED	-	-	-		
					20		5, OLG	GREEN/BLACK	ORANGE/BLACK	WHITE/BLACK	RED/BLACK	-	-	-		
			M(12-14)	3	9	WHITE	2	GREEN	ORANGE	-	RED	-	-	-		
					8B		PED8	-	-	-	-	BLUE	BLACK	-		
					8C		PED8	-	-	-	-	BLUE/BLACK	RED/BLACK	BLACK/WHITE		
TC2	TS9		O(12-14)	5	7	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					11		3	GREEN/BLACK	ORANGE/BLACK		RED/BLACK					
			P(12-14)	5	5	WHITE	2	GREEN	ORANGE	-	RED					
					8A		PED8	-	-	-	-	BLUE	BLACK	BLACK/WHITE		
TC2	TS10		Q(12-14)	8	12	WHITE	3	GREEN	ORANGE	-	RED	-	-	-		
					-		-	-	-	-	-	-	-	-		

NOTES:
CONTRACTOR SHALL LABEL EACH HOMERUN CABLE IN ACCORDANCE TO THIS SHEET (CABLE A-Q)
DETECTION AND APS BUTTON WIRING NOT DESCRIBED ON THIS SHEET.
RESERVE SPARE CONDUCTOR ON TS9 AND TS4 FOR BIKE CONFIRMATION BEACON.

10153

MADISON, WI

7431

CONTRACT NO:

ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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10153

E - 11

REVISION

DATE

BY

MARK

DESIGNED BY: JLS

DATE: 3/17/2026

Scale: N/A

10153

E - 11

10153 TRAFFIC SIGNAL CONDUIT							
From	To	60224	60232	60230	60222	60241	60261
		SCHEDULE 40 (LF)	2" (LF)	SCHEDULE 80 (LF)	3" (LF)	GOPHER RACEWAY FOR ELECTRICAL CONDUIT	ELECTRICAL TRENCH (LF)
TC2	LC1	5	-	-	-	-	5
TC2	HH17	45	30	-	-	-	15
HH17	TS1	-	5	-	-	-	5
HH17	TS10	-	15	-	-	-	15
HH17	SL7323	-	-	-	-	-	-
HH17	HH16	-	-	-	66	33	-
HH16	SL7323	-	5	-	-	-	5
HH16	HH15	90	-	-	-	-	45
HH15	TS2	-	6	-	-	-	6
HH15	HH14	-	-	0	-	0	-
HH14	TS3	-	6	-	-	-	6
HH14	HH13	-	-	-	0	0	-
HH13	TS4	-	8	-	-	-	-
HH13	HH23	40	40	-	-	-	40
HH23	TS5	-	10	-	-	-	10
HH23	TS6	-	6	-	-	-	6
HH23	HH22	-	-	35	70	35	-
EXISTING	TS7	-	10	-	-	-	10
HH22	HH21	100	50	-	-	-	50
HH21	TS8	-	6	-	-	-	-
HH21	HH19	-	-	-	75	75	-
HH21	HH20	-	-	0	0	-	-
HH20	HH19	-	-	31	0	-	-
HH20	SL7326	0	-	-	-	-	0
HH19	TS9	-	10	-	-	-	10
HH19	HH17	150	100	-	-	-	50
HH24	HH25	-	-	64	-	32	-
HH25	HH26	-	-	38	-	38	-
HH25	SL10	5	-	-	-	-	5
HH26	TS11	-	3	-	-	-	3
HH24	TS12	-	6	-	-	-	6
LC1	SERVICE	-	1	-	-	-	1
LC1	HH17	-	30	-	-	-	15
TOTALS		435	347	168	211	213	308

10153 TRAFFIC SIGNAL BASES								
DESCRIPTION	60413	60415	60416	60417	60423	60424	90078	90079
	P BASE (EACH)	CONSTRUCT LB-3R (EACH)	BASE TYPE LB-8R (EACH)	LB-GR (EACH)	REMOVE TRAFFIC SIGNAL BASE (EACH)	POLE (EACH)	FURNISH & INSTALL PEDESTAL BASE (EACH)	TRANSFORMER BASE (EACH)
TC2	1	-	-	-	-	-	-	-
TS1	-	-	-	1	-	-	1	-
TS2	-	-	1	-	-	-	-	1
SL11	-	-	1	-	-	-	-	1
TS4	-	-	1	-	1	1	-	-
TS6	-	-	-	1	-	-	1	-
TS7	-	1	-	0	-	-	1	1
TS8	-	-	-	0	0	0	1	-
SL7326	-	-	0	-	0	0	-	0
TS9	-	-	1	-	1	1	-	-
TS10	-	-	-	1	-	-	1	-
TS11	-	-	1	-	-	-	-	-
TS12	-	-	-	1	-	-	1	-
SL10	-	-	1	-	-	-	-	-
DFB1	-	-	-	-	1	1	-	-
DFB2	-	-	-	-	1	1	-	-
TOTALS	1	1	6	4	4	4	6	3

10153 STREET LIGHTING CONDUITS

DESCRIPTION	60427	60702	60706	60708	COMMENTS
	CONSTRUCT ELECTRICAL HANDHOLE				
	REMOVE HANDHOLES (EACH)	TYPE I (EACH)	TYPE V (EACH)	TYPE VII (EACH)	
HH27	-	0	-	-	CO1
HH29	-	0	-	-	
HH33	-	1	-	-	
HH34	-	1	-	-	
HH18	1	-	-	-	
HH35	-	1	-	-	CO1
HH36	-	1	-	-	CO1
TOTALS	1	4	0	0	

10153 TRAFFIC SIGNAL CONDUITS

DESCRIPTION	60427	60702	60706	60708	COMMENTS
	REMOVE HANDHOLES (EACH)	CONSTRUCT ELECTRICAL HANDHOLE			
		TYPE I (EACH)	TYPE V (EACH)	TYPE VII (EACH)	
HH17	-	-	-	1	
HH16	-	-	1	-	
HH15	1	-	1	-	
HH14	1	-	1	-	
HH13	-	-	1	-	
EXHH12	1	-	-	-	
HH23	-	-	1	-	
HH22	-	-	1	-	
HH21	1	-	1	-	
HH20	0	-	0	-	
HH19	-	-	1	-	
EXHH18	1	-	-	-	
HH24	-	-	1	-	
HH25	-	1	-	-	
HH26	-	1	-	-	
TOTALS	5	2	9	1	

10153 FIBER CONDUITS

DESCRIPTION	60427	60702	60706	60708	COMMENTS
	CONSTRUCT ELECTRICAL HANDHOLE				
	REMOVE	TYPE I	TYPE V	TYPE VII	
	HANDHOLES				
	(EACH)	(EACH)	(EACH)	(EACH)	
HH28	-	-	1	-	
HH31	-	-	1	-	
HH32	-	-	-	1	
TOTALS	0	0	2	1	

TRAFFIC SIGNAL CONDUCTORS

		60269 FURNISH & INSTALL TRAFFIC SIGNAL CABLE 12-14 AWG	90065 10 AWG (LF)	60292 FURNISH & INSTALL 24-CT FIBER OPTIC CABLE (LF)	60296 FURNISH & INSTALL 24-CT FIBER OPTIC CABLE (LF)	COMMENT S
FROM	TO	(LF)	(LF)	(LF)	(LF)	
TC2	TS1	30	30	-	-	
TC2	SL7323	65	65	-	-	
TC2	TS2	115	115	-	-	
TC2	TS3	360	150	-	-	(2) - 12-14 AWG CABLES
TC2	TS4	440	190	-	-	(2) - 12-14 AWG CABLES
TC2	TS5	240	230	-	-	
TC2	TS6	230	220	-	-	
TC2	TS7	205	195	-	-	
TC2	TS8	145	135	-	-	
TC2	SL7326	270	105	-	-	(2) - 12-14 AWG CABLES
TC2	TS9	200	70	-	-	(2) - 12 -14 AWG CABLES
TC2	TS10	80	40	-	-	
TC2	HH32	-	-	650	-	NEW SPLICE AT MARTIN + 50' SLACK
HH32	SPLICE	-	-	-	2100	SPLICE AT BADGER + 100' SLACK
TOTALS		2380	1545	650	2100	

FISH HATCHERY & CARVER TRAFFIC SIGNAL EQUIPMENT											
STRUCTURE	90080	90064	90065	90068	90069	90073	90070	90071	90072	90074	90081
	INSTALL CITY FURNISHED TS2 TRAFFIC SIGNAL CABINET (EACH)	SIGNAL STANDARD 15' ALUMINUM (EACH)	POLE 20-FT ALUMINUM, 7 GAUGE (EACH)	TROMBONE ARM 12-FT (EACH)	TROMBONE ARM 18-FT (EACH)	16-INCH PEDESTRIAN SIGNAL W/COUNT DOWN (EACH)	3-SECTION 12-INCH TRAFFIC SIGNAL (EACH)	4-SECTION 12-INCH TRAFFIC SIGNAL (EACH)	3-SECTION 4-INCH BIKE SIGNAL (EACH)	ACCESSIBLE PEDESTRIAN SIGNAL BUT TON (EACH)	INSTALL EVP SYSTEM (EACH)
TC2	1	-	-	-	-	-	-	-	-	-	-
TS1	-	1	-	-	-	-	2	-	-	-	-
SL7323	-	-	-	-	-	-	1	-	-	-	-
TS2	-	-	1	-	-	-	1	1	-	-	1
SL11	-	-	-	1	-	-	1	2	-	-	1
TS4	-	-	1	1	-	1	2	-	1	1	-
TS5	-	1	-	-	-	-	1	-	-	-	-
TS6	-	1	-	-	-	-	2	-	-	-	-
TS7	-	0	-	-	-	1	1	-	-	1	-
TS8	-	1	-	-	-	1	1	1	-	1	-
SL7326	-	-	-	1	-	2	1	2	-	1	-
TS9	-	-	1	1	-	1	2	-	1	1	-
TS10	-	1	-	-	-	-	1	-	-	-	-
TS11	-	-	1	-	1	-	-	-	-	-	-
TS12	-	-	-	-	1	-	-	-	-	-	-
SL10	-	-	-	-	-	-	-	-	-	-	-
TOTAL:	1	5	4	4	2	6	16	6	2	5	2

STREETLIGHT BASES													
DESCRIPTION	60401	60413	60415	60416	60421	60422	90063	90067	90066	90076	90060	90061	90062
	CONSTRUCT BASE TYPE				REMOVE STREET LIGHT		FURNISH AND INSTALL STREET LIGHT POLE			INSTALL AND MAINTAIN SUPPORT STRUCTURES	FURNISH & INSTALL STREET LIGHT FIXTURE		
	LB-2 (EACH)	TYPE P BASE (EACH)	LB-3R (EACH)	LB-8R (EACH)	BASE (EACH)	POLE (EACH)	20-FT BIKE PATH (EACH)	30-FT, 11 GAUGE, DRILLED (EACH)	30-FT, 7 GAUGE, DRILLED (EACH)	FOR TEMPORARY LIGHTING (EACH)	TYPE 1 (BIKE PATH) (EACH)	TYPE 2 (STREET) (EACH)	TYPE 3 (BIKE PATH OVER STREET) (EACH)
SL1	1	-	-	-	-	-	1	-	-	-	1	-	-
A36	-	-	-	-	-	1	-	-	-	-	-	-	-
SL2	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7302	-	-	-	-	-	-	-	-	-	-	-	-	-
SL7303	-	-	-	-	-	-	-	-	-	-	-	-	-
SL7304	-	-	-	-	-	1	-	-	-	-	-	-	-
SL3	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7306	-	-	-	-	-	1	-	-	-	-	-	-	-
SL4	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7308	-	-	-	-	-	1	-	-	-	-	-	-	-
SL5	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7310	-	-	-	-	-	1	-	-	-	-	-	-	-
SL6	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7312	-	-	-	-	-	1	-	-	-	-	-	-	-
SL7	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7314	-	-	-	-	-	1	-	-	-	-	-	-	-
SL8	1	-	-	-	-	-	1	-	-	-	1	-	1
SL7316	-	-	-	-	-	1	-	-	-	-	-	-	-
SL9	1	-	-	-	-	1	1	-	-	-	1	-	1
SL7323	-	-	-	-	-	-	-	-	-	-	-	-	-
SL7326	-	-	-	-	-	-	-	-	1	-	-	2	-
SL7324	-	-	-	-	-	-	-	-	-	-	-	-	-
SL7329	-	-	1	-	1	1	-	1	-	-	-	1	-
SL10	-	-	-	-	-	-	-	-	1	-	-	2	-
SL7331	-	-	1	-	1	1	-	1	-	-	-	-	-
SL7334	-	-	1	-	1	1	-	1	-	-	-	2	-
WP1	-	-	-	-	-	-	-	-	-	1	-	-	-
WP2	-	-	-	-	-	-	-	-	-	0	-	-	-
SL11	-	-	-	-	-	-	-	-	1	-	-	2	-
LC1	-	1	-	-	-	-	-	-	-	-	-	-	-

10153

MADISON, WI

CONTRACT NO: 7431

ELECTRICAL PLANS

CANNONBALL PATH: PHASE 6

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10153

E - 15

8/1/26

DATE

8/1/26

DATE

10153

Scale: N/A

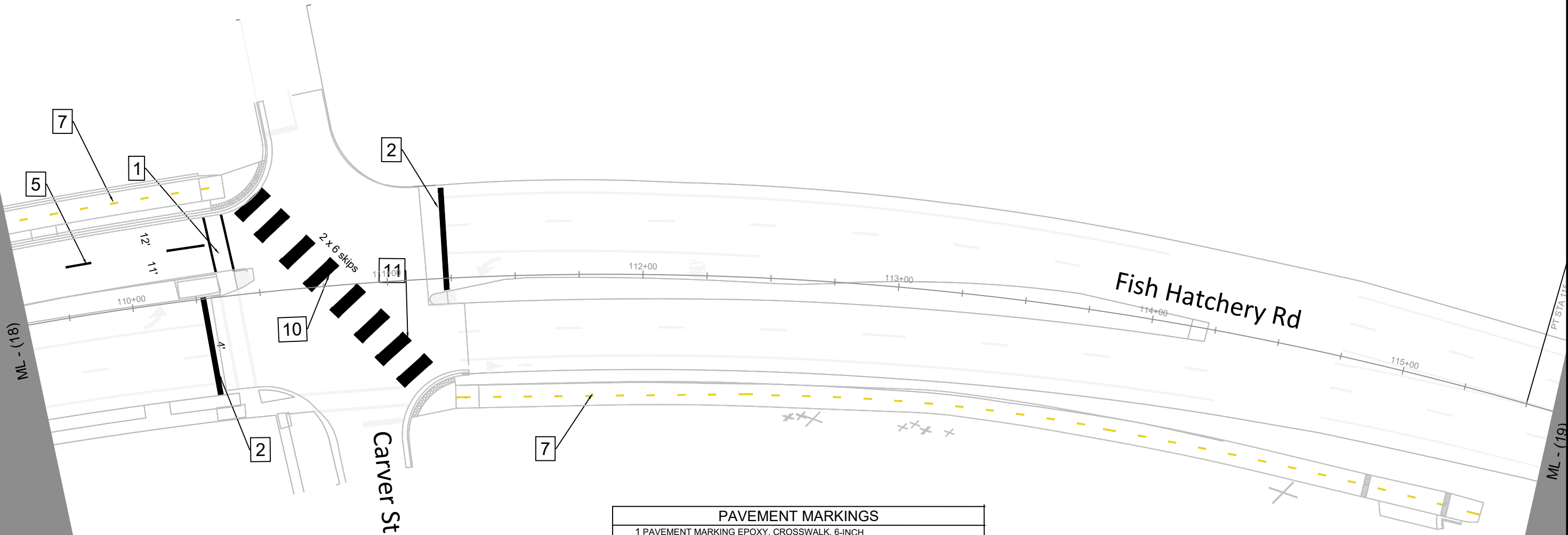
E - 15



10153
PM-2

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
2	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
3	PAVEMENT MARKING EPOXY, YELLOW CURB
4	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (10' LINE, 30' GAP)
5	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (10' LINE, 30' GAP)
6	PAVEMENT MARKING EPOXY, WHITE LINE, 6-INCH
7	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (3' LINE, 9' GAP)
8	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
9	PAVEMENT MARKING EPOXY, YELLOW LINE, 4-INCH
10	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN
11	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6-INCH WHITE RETROREFLECTIVE LINE
12	PAVEMENT MARKING EPOXY, RAILROAD CROSSING
13	PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK 18-INCH
14	PAVEMENT MARKING EPOXY, DOUBLE YELLOW LINE, 4-INCH
15	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (5' LINE, 5" GAP)
16	PAVEMENT MARKING EPOXY, WHITE LINE, 8-INCH
17	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW

Notes: All dimensions are to center of marking and face of curb, for layout questions, contact Ali Heinritz, aheinritz@cityofmadison.com 608.267.1102



PAVEMENT MARKINGS

1	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
2	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
3	PAVEMENT MARKING EPOXY, YELLOW CURB
4	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (10' LINE, 30' GAP)
5	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (10' LINE, 30' GAP)
6	PAVEMENT MARKING EPOXY, WHITE LINE, 6-INCH
7	PAVEMENT MARKING EPOXY, 4 INCH YELLOW SKIPS (3' LINE, 9' GAP)
8	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW
9	PAVEMENT MARKING EPOXY, YELLOW LINE, 4-INCH
10	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, BIKE LANE GREEN
11	SKID/SLIP RESISTANT PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6-INCH WHITE RETROREFLECTIVE LINE
12	PAVEMENT MARKING EPOXY, RAILROAD CROSSING
13	PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK 18-INCH
14	PAVEMENT MARKING EPOXY, DOUBLE YELLOW LINE, 4-INCH
15	PAVEMENT MARKING EPOXY, 6 INCH WHITE SKIPS (5' LINE, 5' GAP)
16	PAVEMENT MARKING EPOXY, WHITE LINE, 8-INCH
17	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW

10153

MADISON, WI

CONTRACT NO: 7431

PAVEMENT MARKING PLANS

CANNONBALL PATH - PHASE 6

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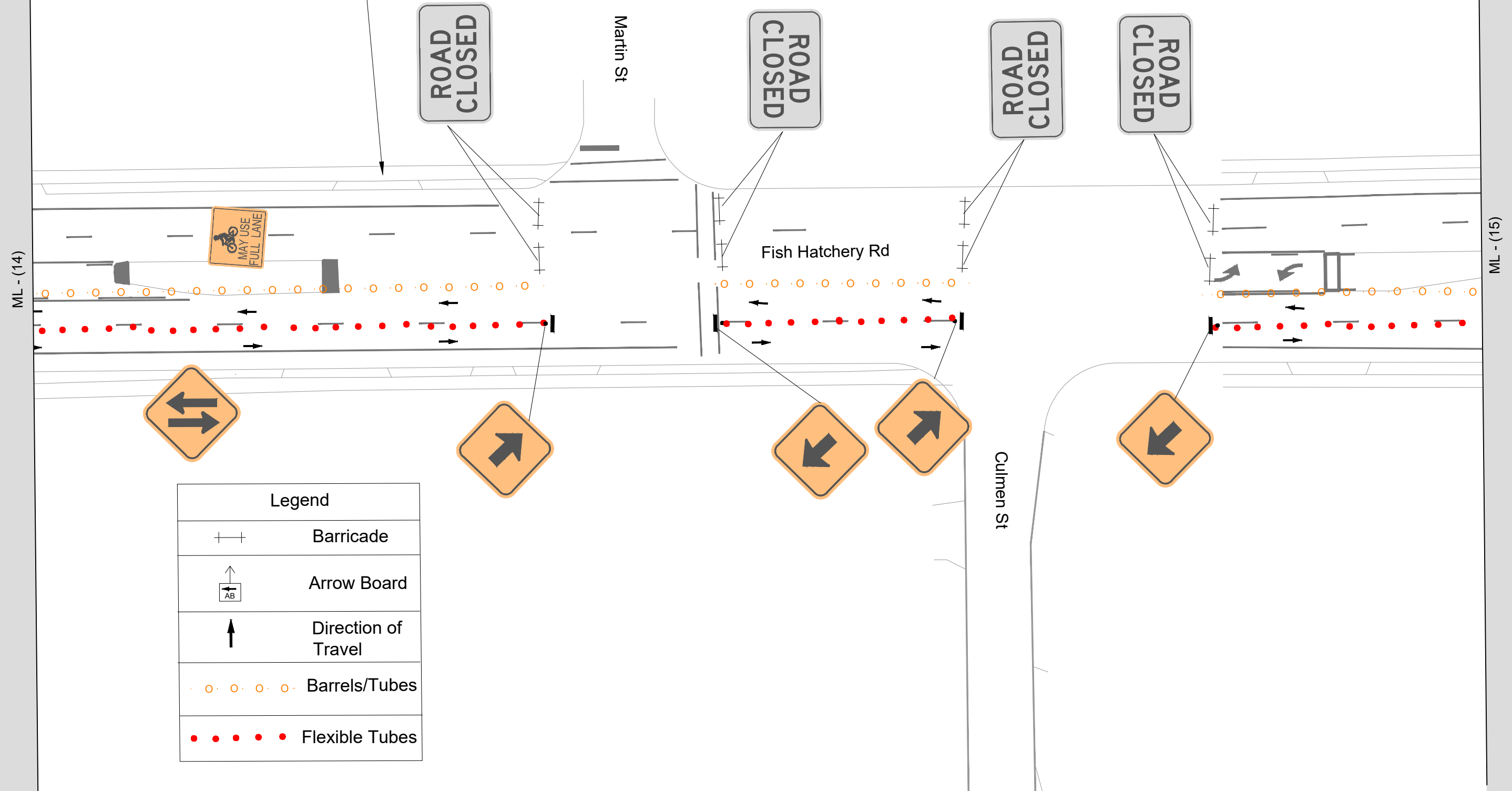


10153

PM-3

MARK	REVISION	DATE	BY
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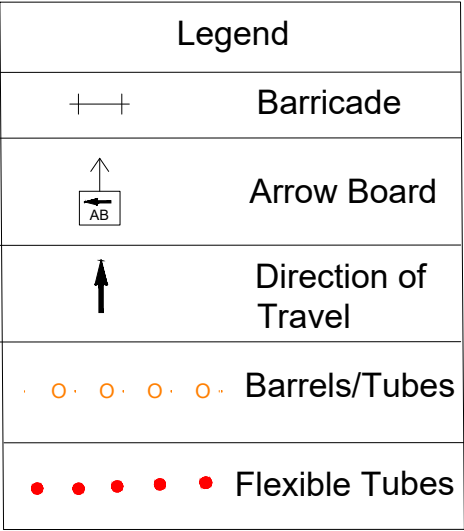
Space barrels so that these driveway
to the fire station is always accessible

[illegible]

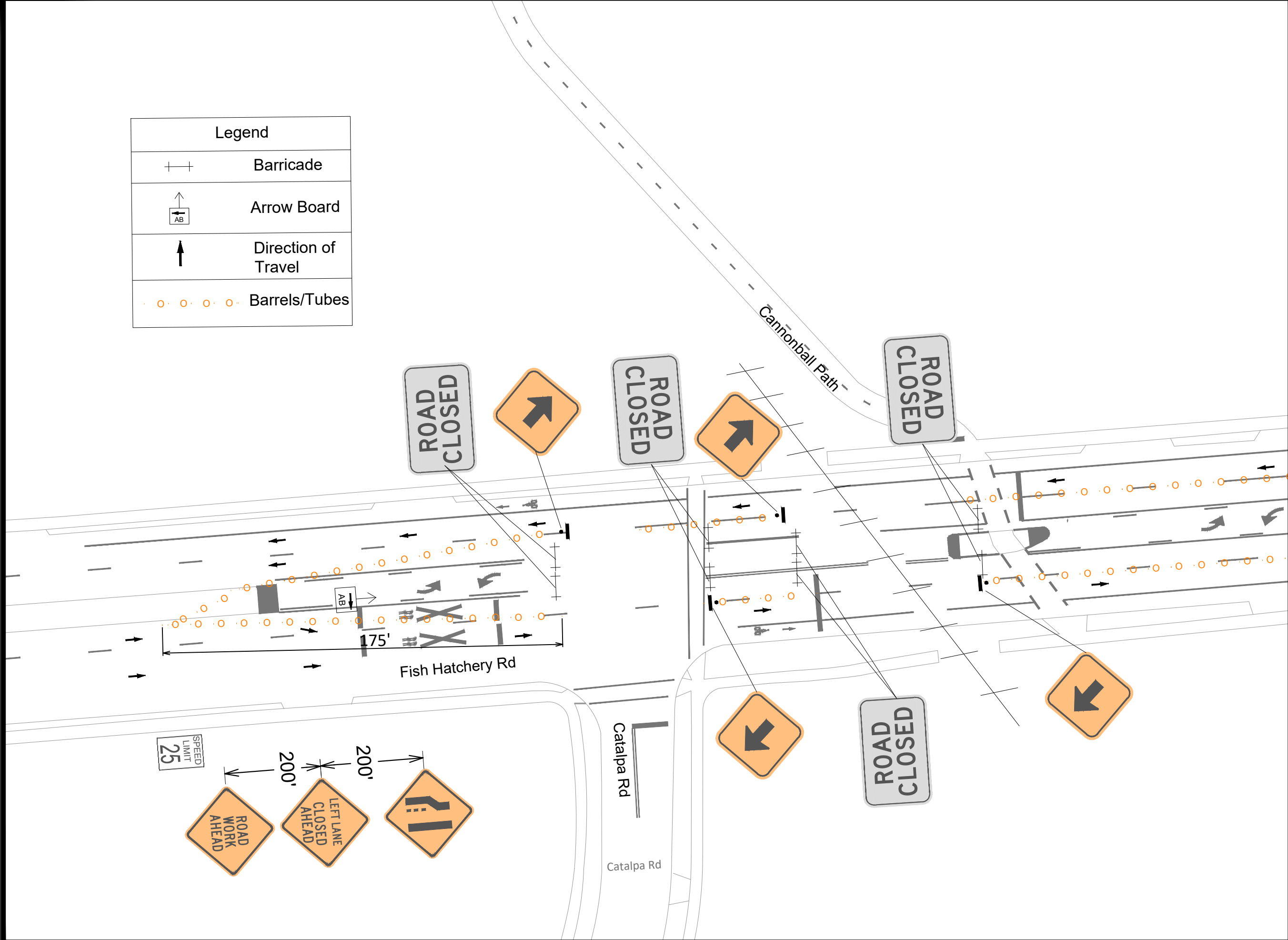
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CANNONBALL PATH - PHASE 6	MADISON, WI
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10153
TC 3-2



Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes

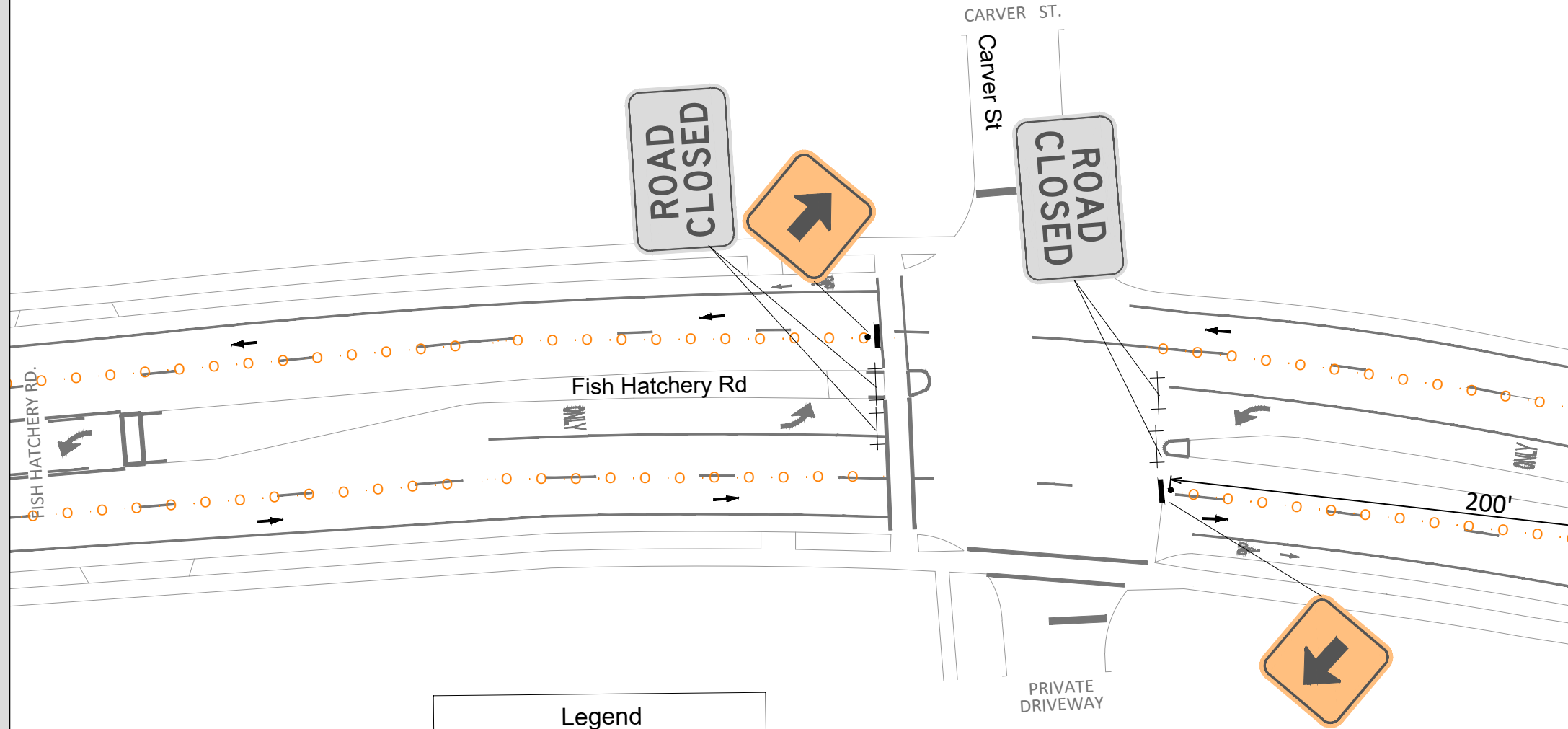


ML - (14)



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10153_ TRAFFIC CONTROL PHASE 4		
CANNONBALL PATH - PHASE 6		
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CONTRACT NO:		7431
MADISON, WI		10153
10153		TC 4-1
REVISION		DATE
Designd By: AUC		5/22/2026 12:39 PM
Scale: 1" = 40'		BY

ML - (15)



Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes

ML - (16)



10153
TC 4-3

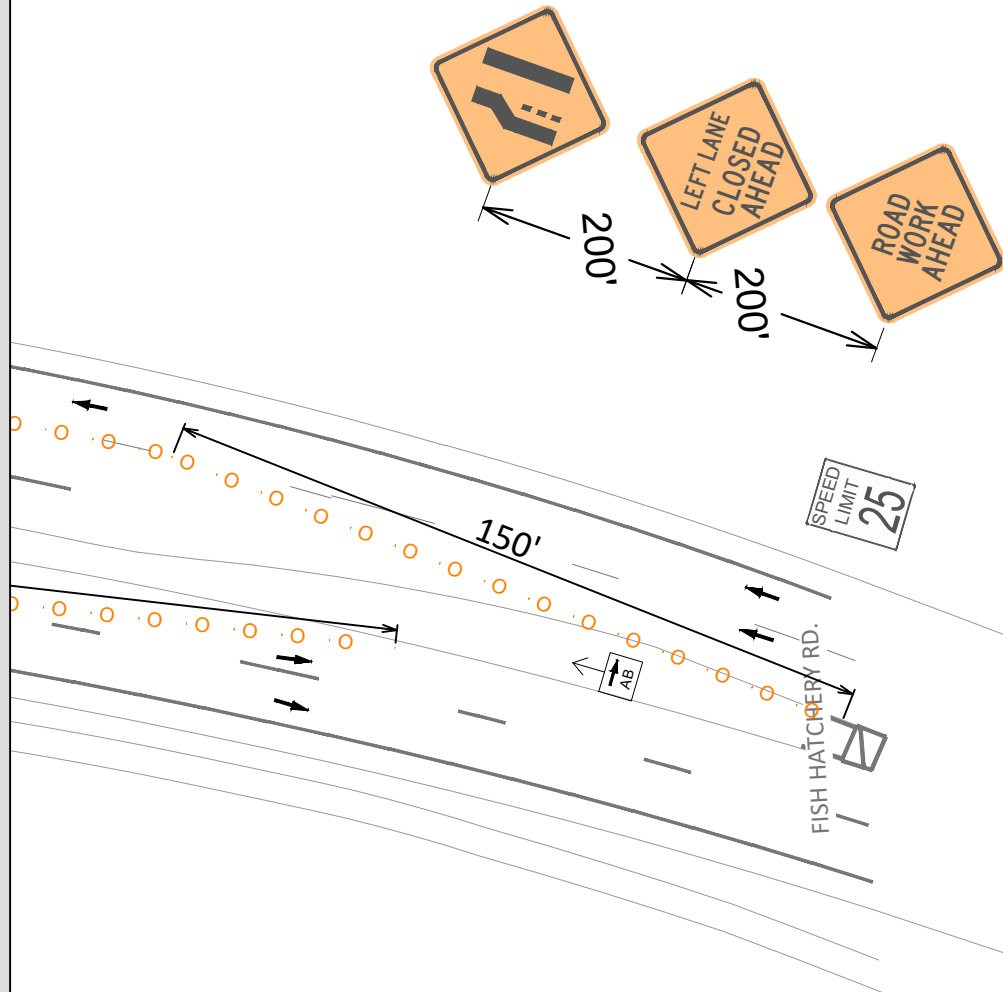
10153_ TRAFFIC CONTROL PHASE 4
CANNONBALL PATH - PHASE 6

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10153
MADISON, WI
CONTRACT NO: 7431

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ML - (16)



Legend	
	Barricade
	Arrow Board
	Direction of Travel
	Barrels/Tubes



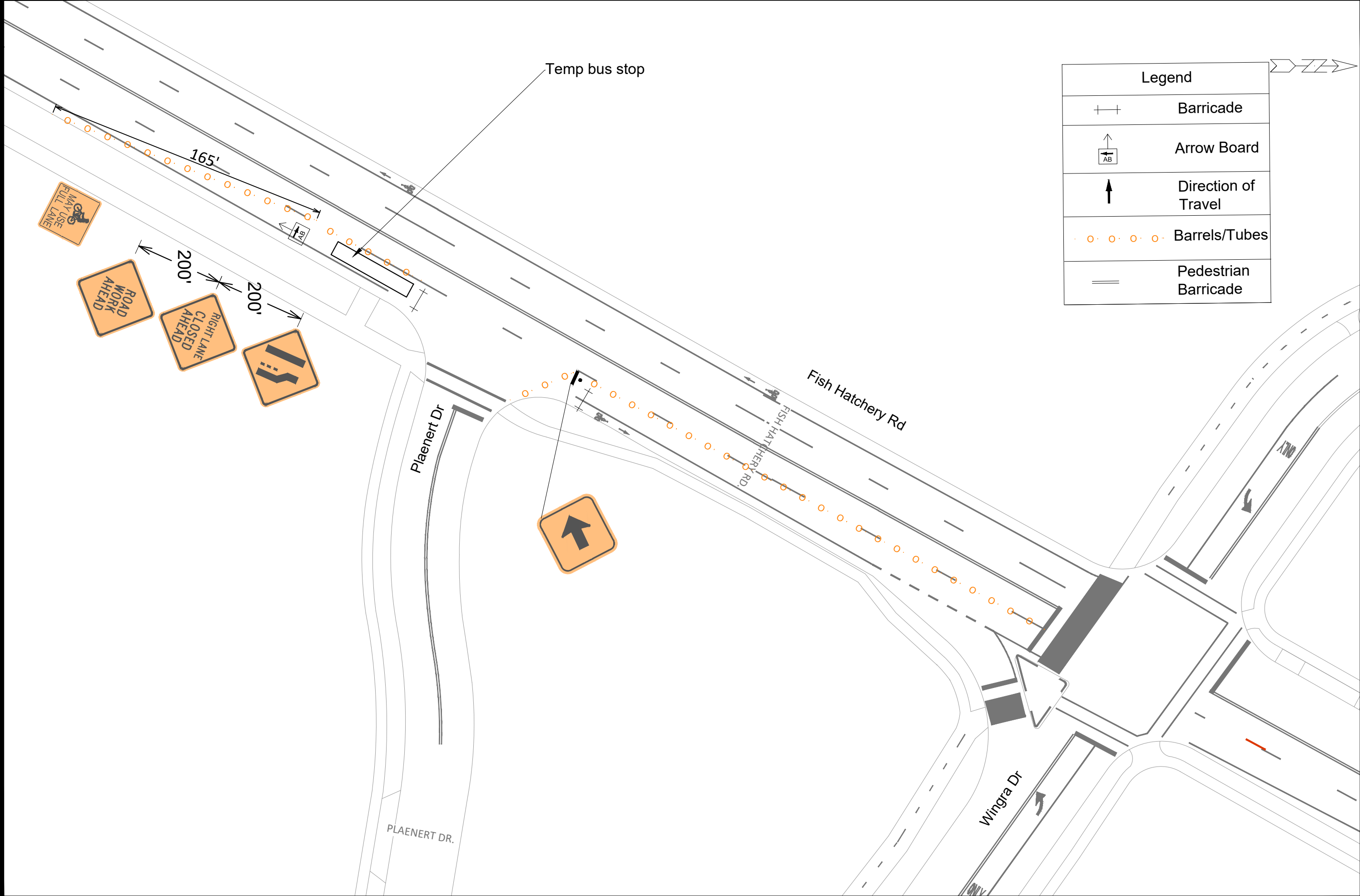
10153
TC 4-4

10153_ TRAFFIC CONTROL PHASE 4
CANNONBALL PATH - PHASE 6

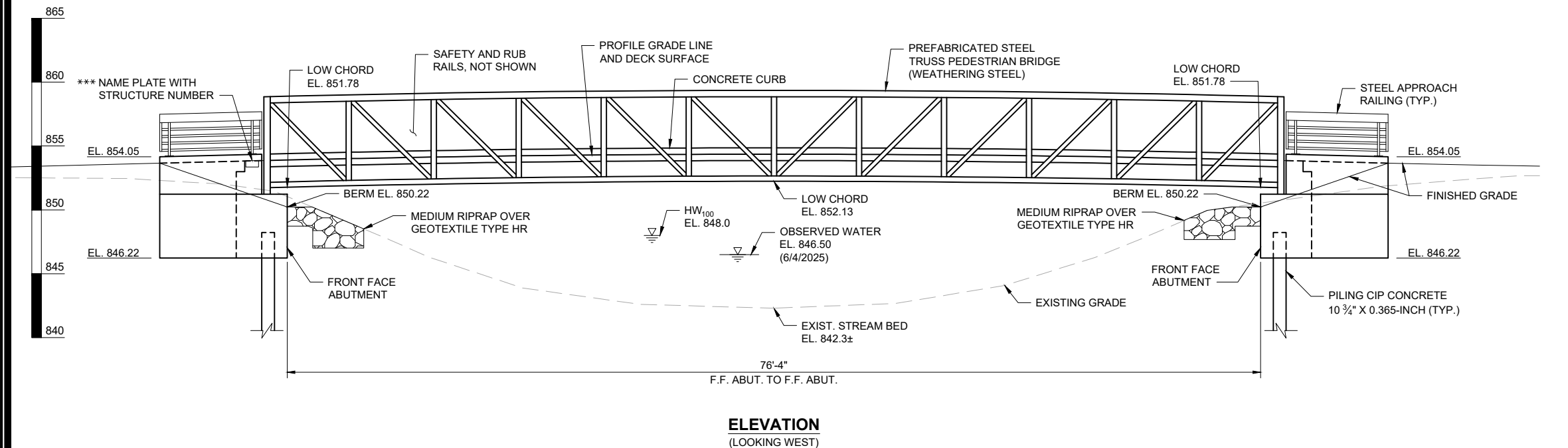
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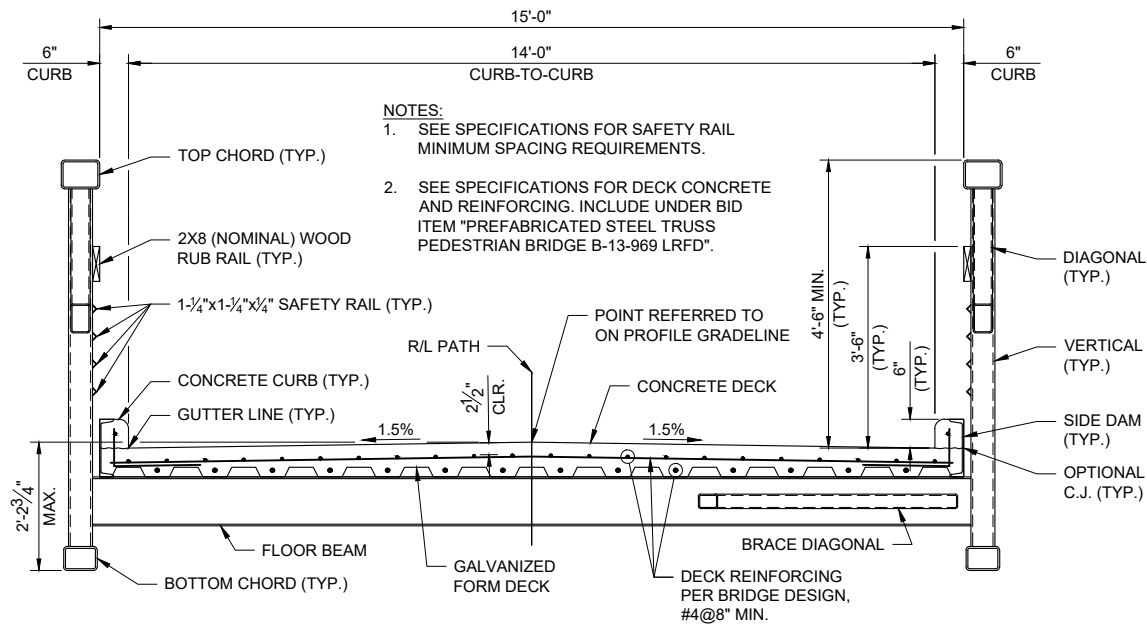
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MADISON, WI
CONTRACT NO: 7431

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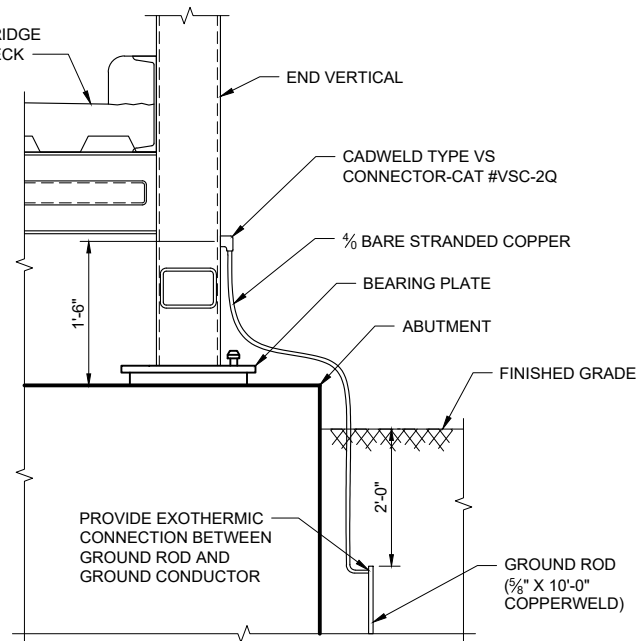


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CANNONBALL PATH - PHASE 6		MADISON, WI	
CONTRACT NO: 7431		TC 6-1	
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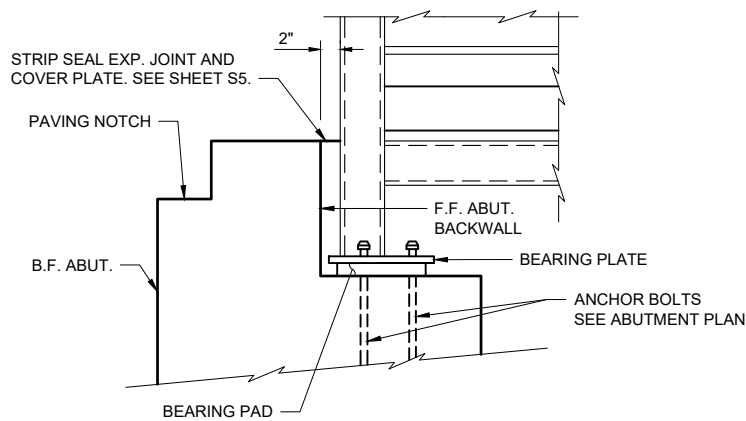




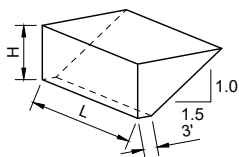
CROSS SECTION THROUGH BRIDGE



GROUNDING DETAIL

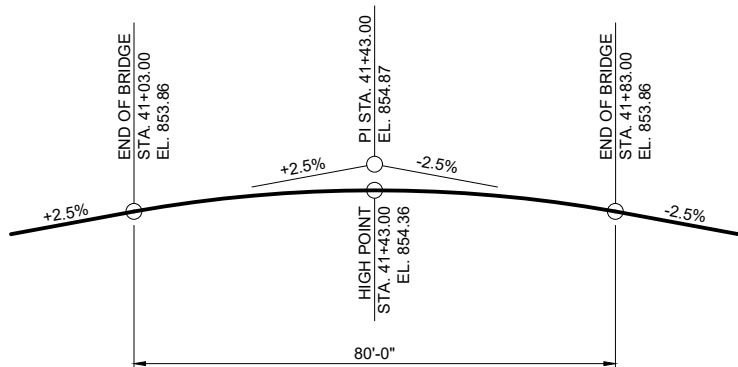


END OF BRIDGE AND BEARING DETAILS

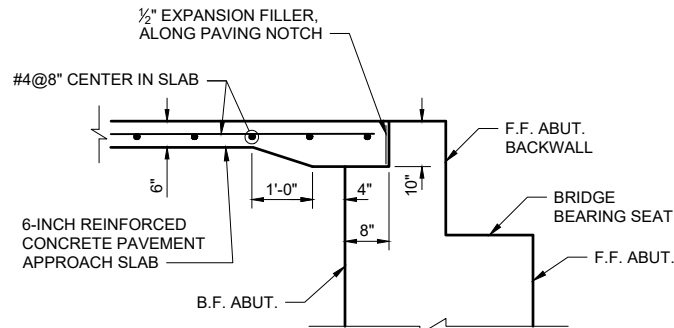


ABUTMENT BACKFILL DIAGRAM

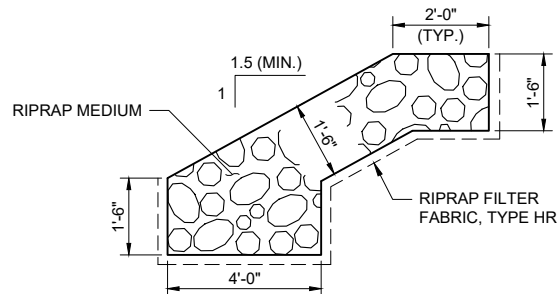
L = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$
 $V_{CY} = V_{CF}(EF)/27$
 $V_{TON} = V_{CY}(2.0)$



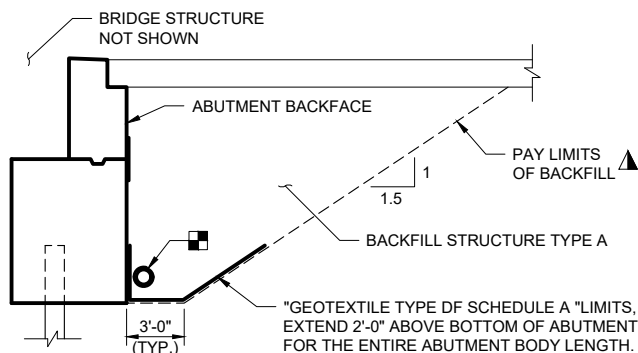
PROFILE GRADE LINE



6-INCH CONCRETE SIDEWALK APPROACH



RIPRAP DETAIL



TYPICAL SECTION THRU ABUTMENT

LEGEND

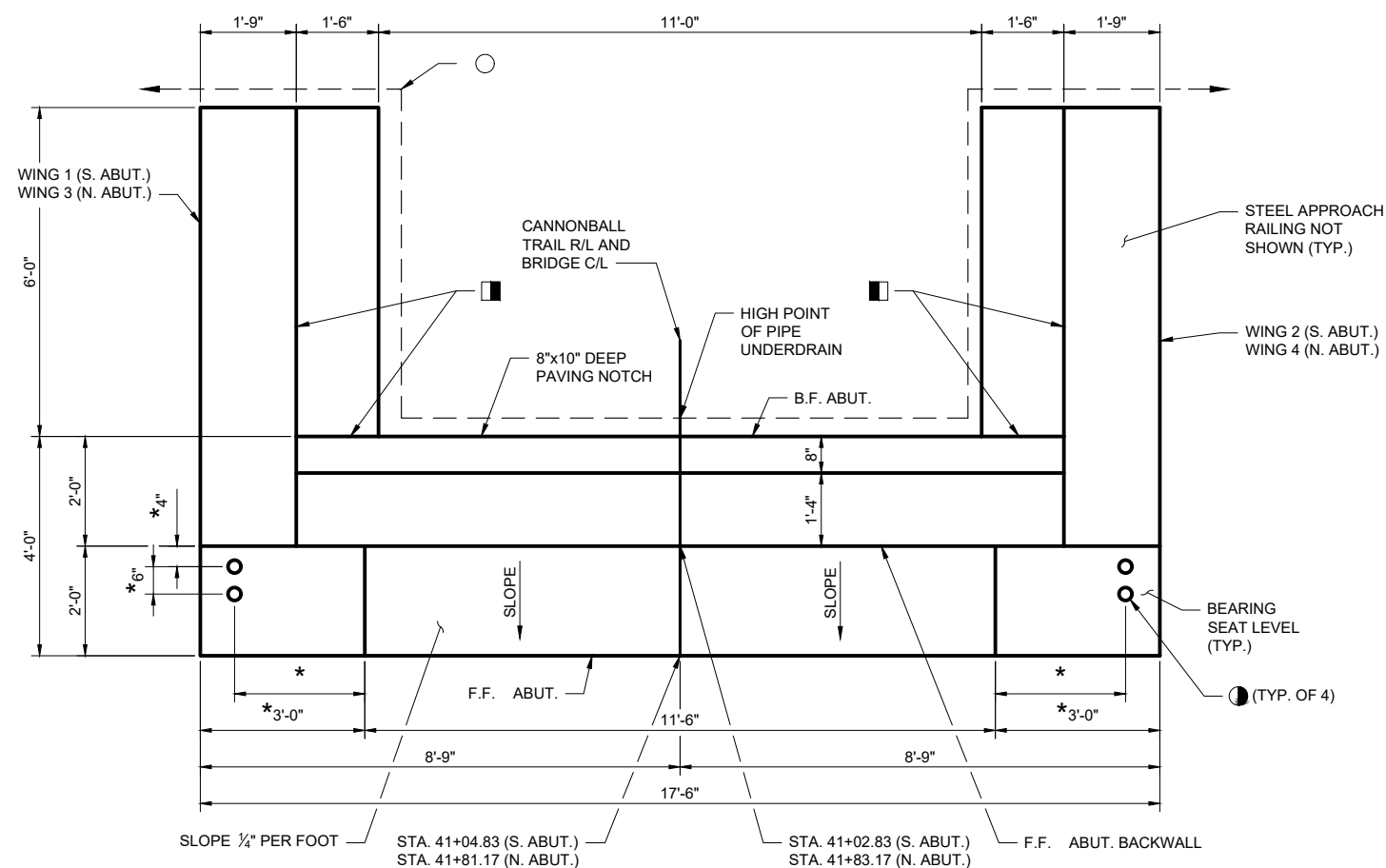
- BACKFILL STRUCTURE TYPE A PAY LIMITS, BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE RODENT SHIELD DETAIL ON SHEET S3.

GENERAL NOTES

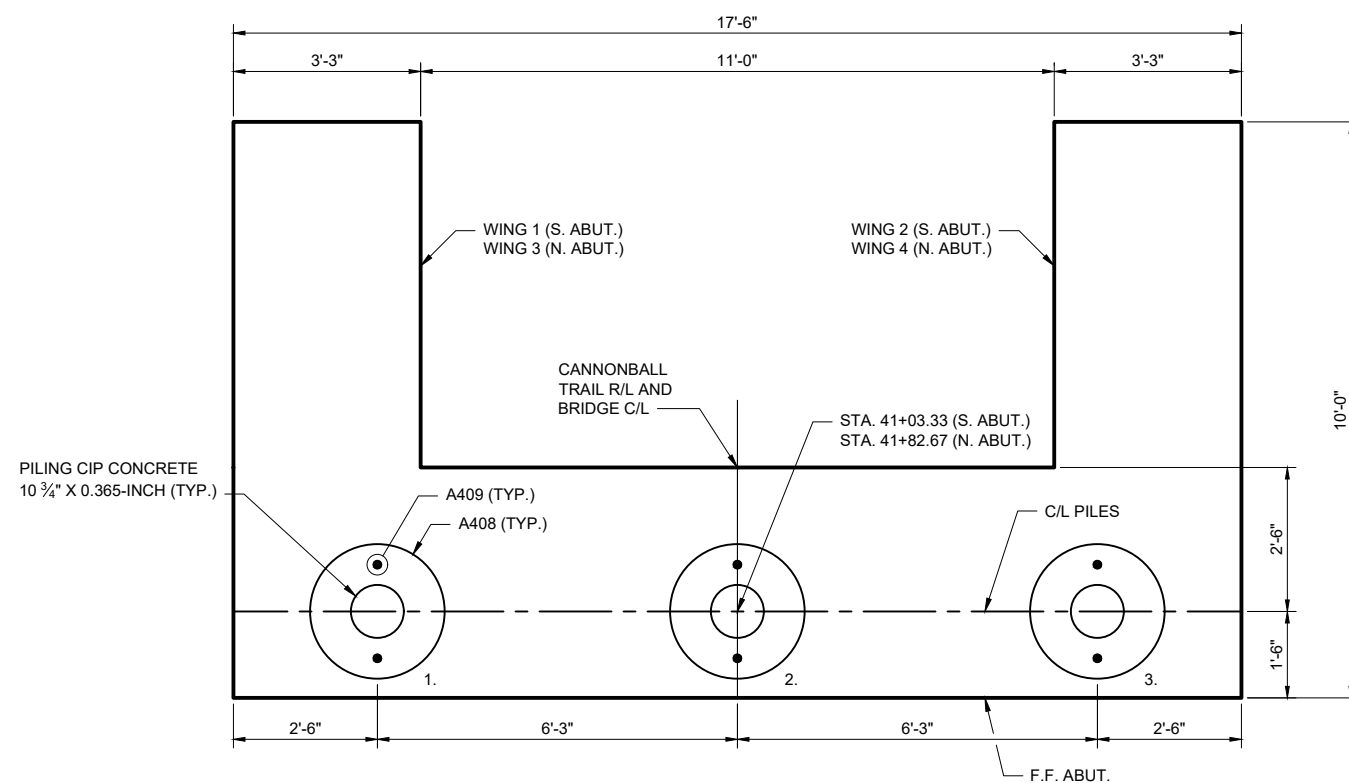
- DRAWINGS SHALL NOT BE SCALED.
- ALL STATIONS AND ELEVATIONS ARE IN FEET.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- ALL BAR STEEL IN BRIDGE DECK AND APPROACH SLABS SHALL BE EPOXY COATED.
- THE FIRST ONE OR TWO DIGITS OF THE REINFORCING BAR MARK SIGNIFY THE BAR SIZE.
- THE EMBANKMENTS ADJACENT TO THE BRIDGE SHALL BE COVERED WITH MEDIUM RIPRAP AND RIPRAP FILTER FABRIC TYPE HR TO THE EXTENT SHOWN ON THE PLAN OR AS REQUESTED BY THE CITY.
- TREAT TIMBER RAILING LUMBER IN ACCORDANCE WITH AWPA USE CATEGORY UC3B. NOMINAL SIZE TIMBER RAILING MATERIAL SHALL BE SURFACED TO S4S.
- AT THE BACK FACE OF ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.
- ALL STRUCTURAL STEEL SHALL BE UNPAINTED EXCEPT STEEL APPROACH RAILINGS.
- NUMBER OF TRUSS PANELS TO BE DETERMINED BY BRIDGE MANUFACTURER.
- BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS SHOWN OTHERWISE.
- SAFETY RAIL, WOOD RUB RAIL, BEARING PLATES, BEARING PADS, AND ANCHOR BOLTS TO BE PROVIDED BY BRIDGE MANUFACTURER.
- THE SUPERSTRUCTURE SHALL BE ANCHORED TO THE FOUNDATIONS IN A MANNER TO:
 - ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE.
 - PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE CL OF THE PATH.
- PROVIDE PROTECTIVE SURFACE TREATMENT TO TOP SURFACE OF CONCRETE DECK AND APPROACHES, TOP SURFACES OF ABUTMENT BODIES AND WINGS, AND VERTICAL AND HORIZONTAL SURFACES OF PAVING NOTCHES AND CURBS.
- ALL ELEVATIONS SHOWN ARE BASED ON NAVD88 DATUM.
- EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES CITY APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.
- THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-13-969" SHALL BE EXISTING GROUNDLINE.
- PROVIDE GROUNDING FOR THE BRIDGE AT EACH ABUTMENT. SEE "GROUNDING DETAIL" ON THIS SHEET. COST FOR GROUNDING THE BRIDGE IS INCIDENTAL TO "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-969 LRFD".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	REFERENCE WISDOT BID ITEM NUMBER	BID ITEM	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
90001	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-13-969	EACH	---	---	---	1
90002	210.1500	BACKFILL STRUCTURE TYPE A	TON	75	75	---	150
90003	502.0100	CONCRETE MASONRY BRIDGES	CY	25.5	25.5	---	51
90004	502.3101	EXPANSION DEVICE	LF	15	15	---	30
90005	502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	171	171
90006	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1700	1700	---	3400
90007	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	675	675	---	1350
90008	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	4	---	8
90009	550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	165	165	---	330
90010	606.0200	RIPRAP MEDIUM	CY	18	18	---	36
90011	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70	---	140
90012	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	11	11	---	22
90013	645.0120	GEOTEXTILE TYPE HR	SY	41	41	---	82
90014	506.8006.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-969 LRFD	EACH	---	---	1	1
90015	---	STEEL PEDESTRIAN RAILING	LF	16	16	---	32
90016	---	CONCRETE PAVEMENT APPROACH SLABS	LS	---	---	---	1

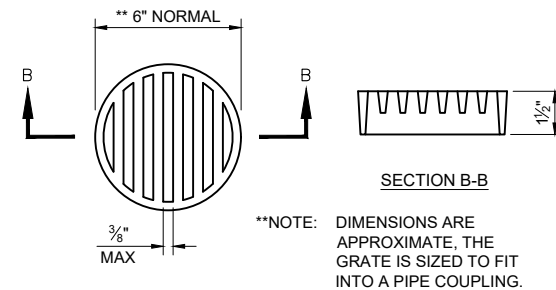


ABUTMENT PLAN



ABUTMENT FOUNDATION PLAN

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS
DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR
STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT
OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE
FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.
10X1-INCH STAINLESS STEEL SHEET METAL SCREWS. ORIENT
SHIELD SO SLOTS ARE VERTICAL.



RODENT SHIELD

GENERAL NOTES

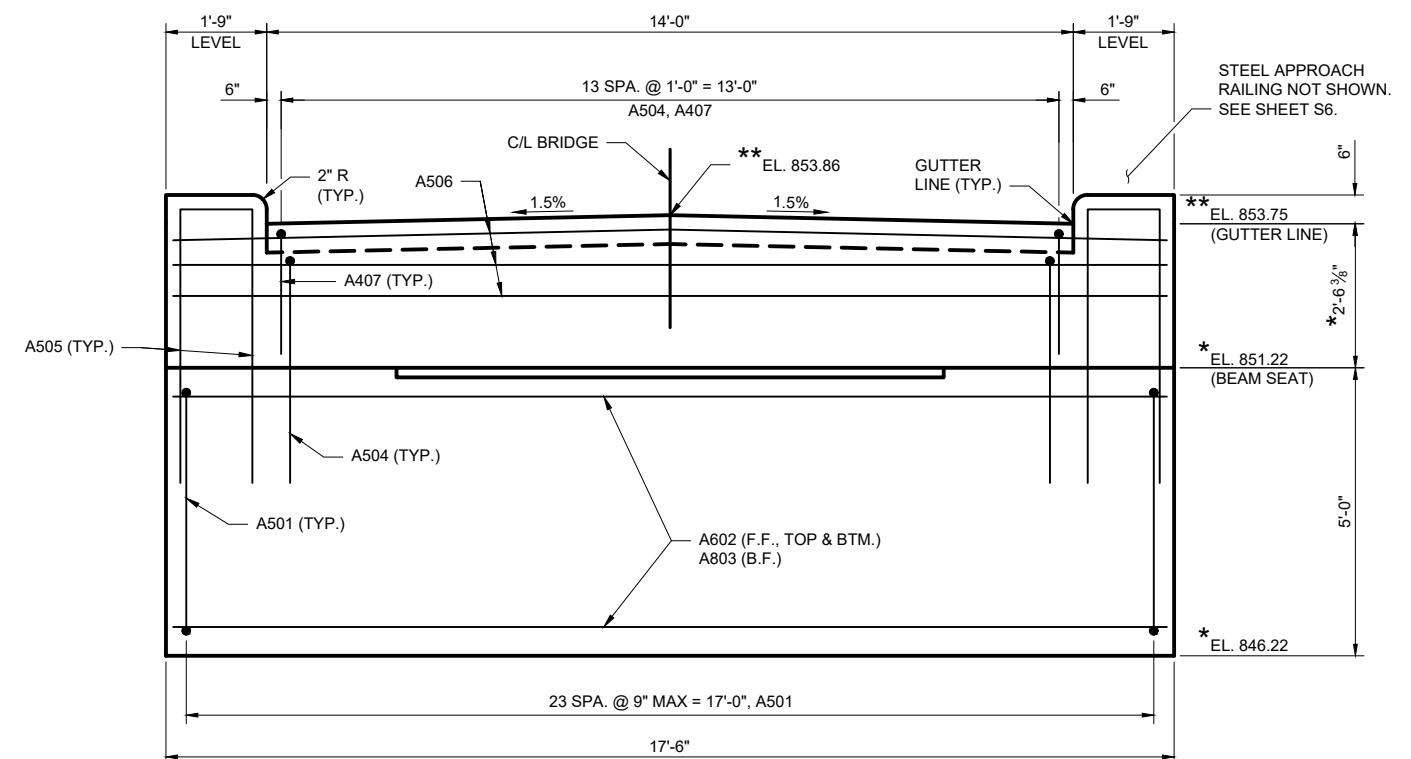
SEE SHEET S4 FOR REINFORCING DETAILS.

SEE SHEET S6 FOR STEEL APPROACH RAILING DETAILS.

ABUTMENT TO BE SUPPORTED ON PILING CAST-IN-PLACE CONCRETE
10 3/4-INCH WITH A REQUIRED DRIVING RESISTANCE OF 115 TONS PER
PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED PILE LENGTH IS 55 FEET AT THE SOUTH ABUTMENT AND
55 FEET AT THE NORTH ABUTMENT.

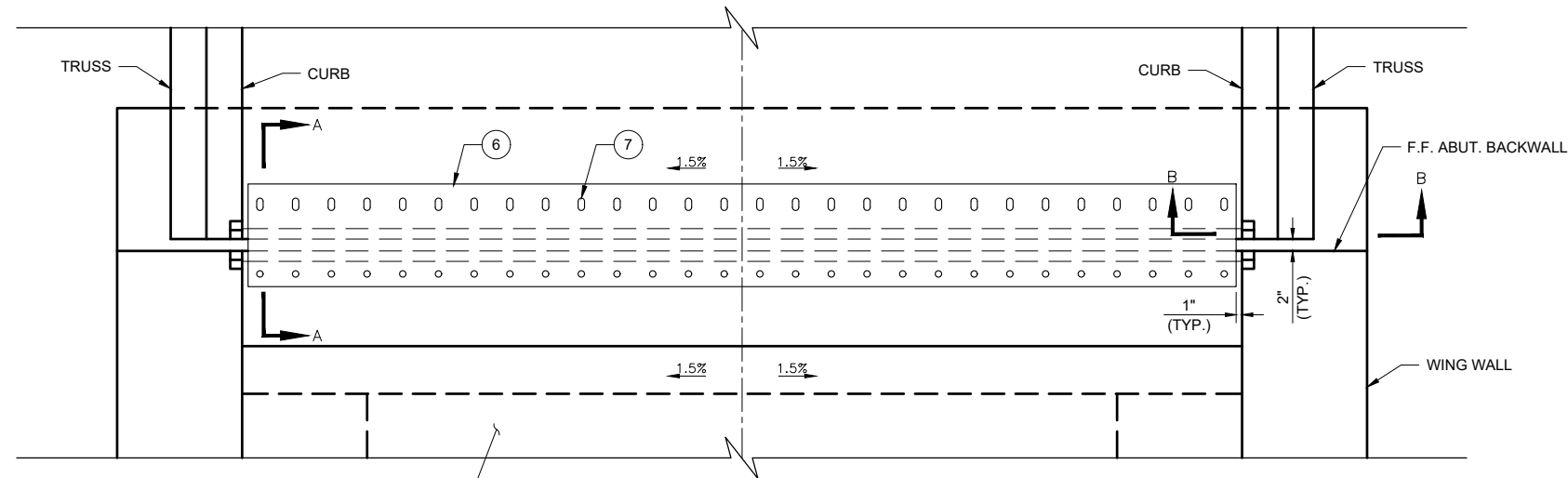
LEGEND

- * DIMENSION OR ELEVATION TO BE VERIFIED OR SUPPLIED BY BRIDGE MANUFACTURER.
- PIPE UNDERDRAIN 6" WRAPPED. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF UNDERDRAIN. SEE RODENT SHIELD DETAIL ON THIS SHEET.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- ** ELEVATION GIVEN AT F.F. OF ABUTMENT BACKWALL.
- ASTM F1554 GRADE 36 GALVANIZED ANCHOR BOLT WITH (2) NUTS AND (1) WASHER EACH END. EMBED INTO CONCRETE 2'-0". BOLT DIAMETER AND PROJECTION HEIGHT BY BRIDGE MANUFACTURER. COST IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.

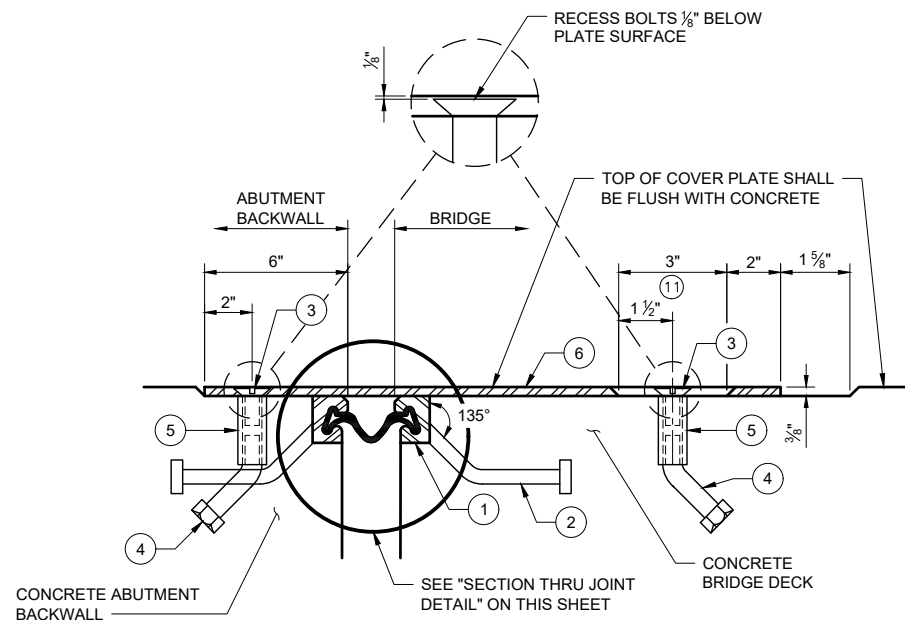


ABUTMENT ELEVATION

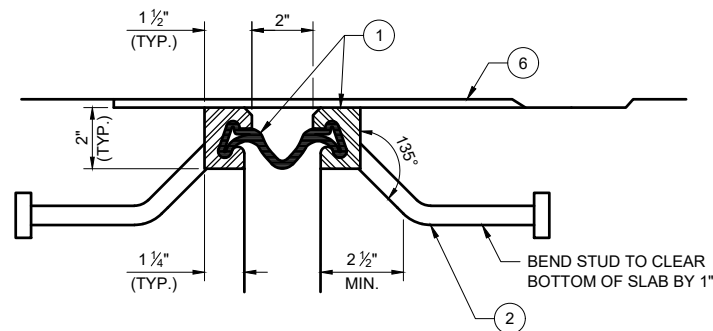
10153
S4



TYPICAL PLAN



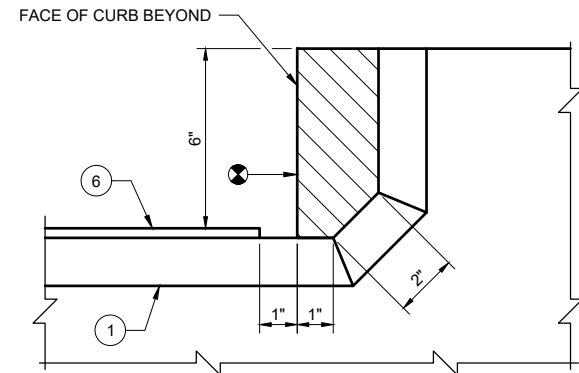
**SECTION A-A
THRU JOINT**



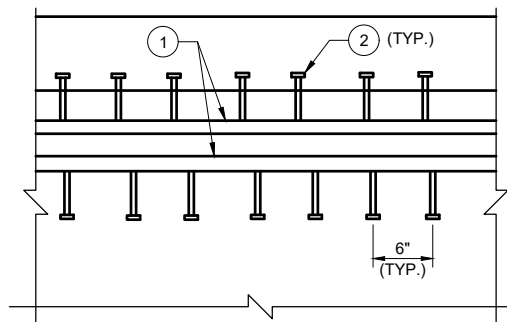
SECTION THRU JOINT DETAIL

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

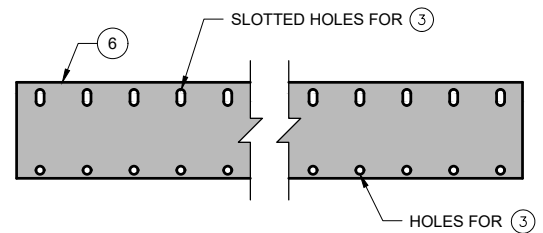
STRIP SEAL EXPANSION JOINT AND COVER PLATE DETAILS



**SECTION B-B
THRU JOINT AT CURB**



**PART PLAN
(COVER PLATES NOT SHOWN)**



**PLAN OF COVER PLATE WITH
SLIP-RESISTANT SURFACE**

PLACE SLIP-RESISTANT SURFACE ON TOP OF WALKING SURFACE IN SHADED AREA.

LEGEND

- NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.
- STUDS $\frac{5}{8}$ " DIA. x $6\frac{3}{8}$ " LONG AT 6" CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- $\frac{3}{4}$ " DIA. x $1\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS $\frac{1}{8}$ " BELOW PLATE SURFACE.
- $\frac{3}{4}$ " DIA. x 4" GALVANIZED HEX. HEAD BOLT. AT ABUTMENT BACKWALL, BEND 45°. AT BRIDGE DECK, BEND TO CLEAR BOTTOM OF SLAB BY 1".
- $\frac{3}{4}$ " DIA. x 2 $\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- GALVANIZED PLATE $\frac{3}{8}$ " x 1'-4" x 13'-10", WITH HOLES FOR NO. 3.
- 1" x 3" SLOTTED COUNTERSUNK HOLE FOR NO. 3. SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

GENERAL NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE SHALL BE APPLIED PRIOR TO GALVANIZING.

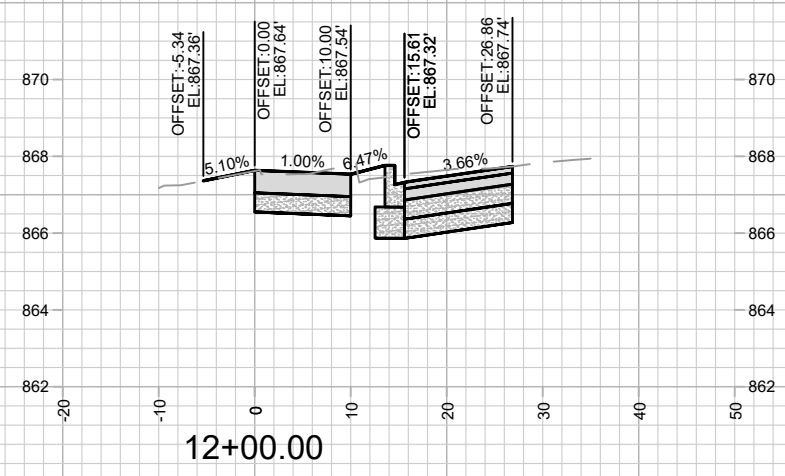
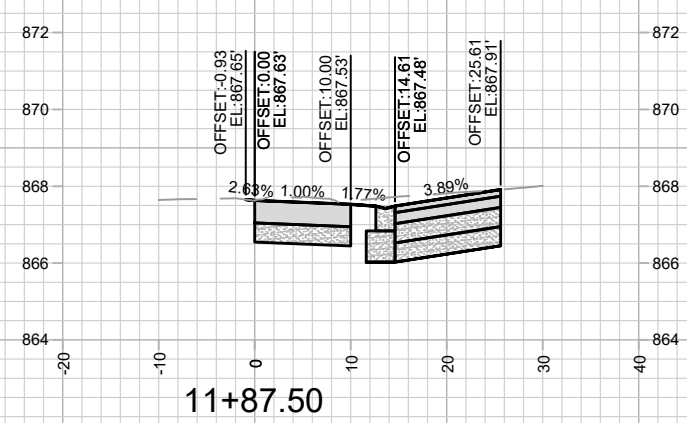
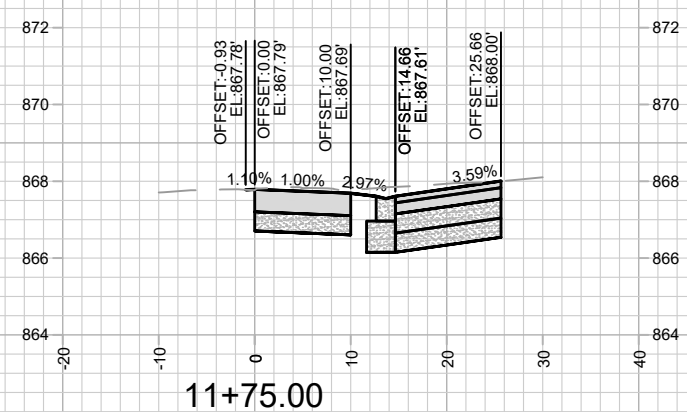
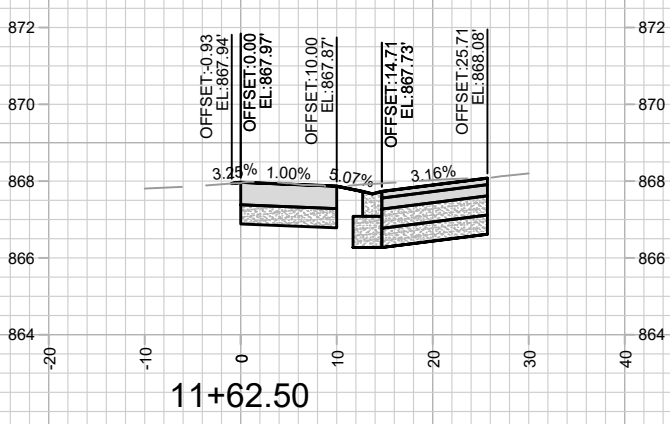
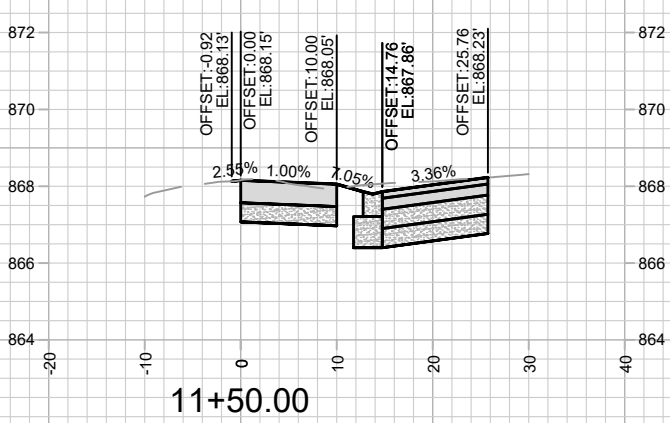
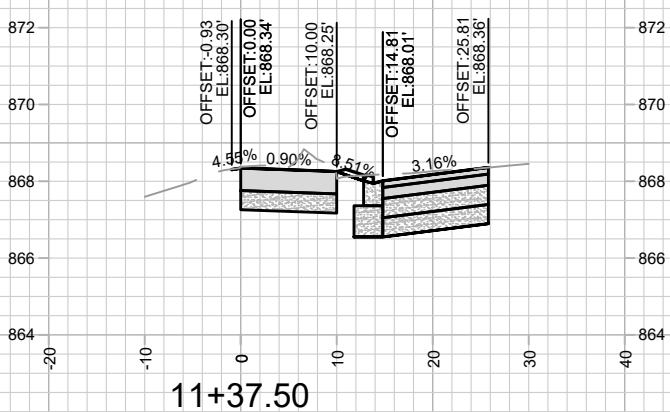
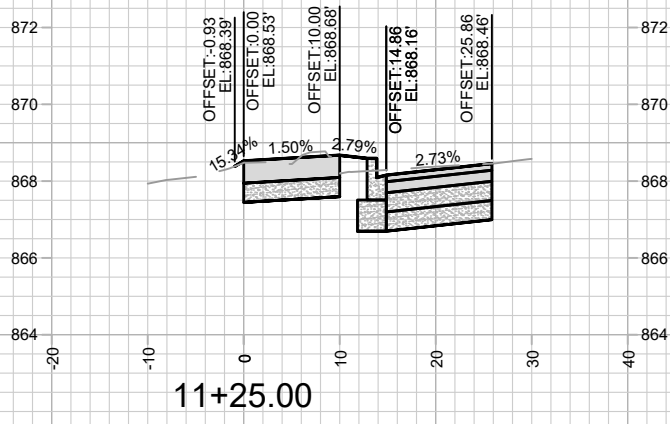
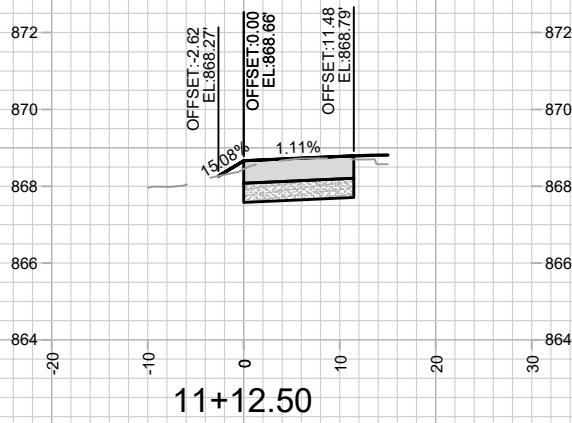
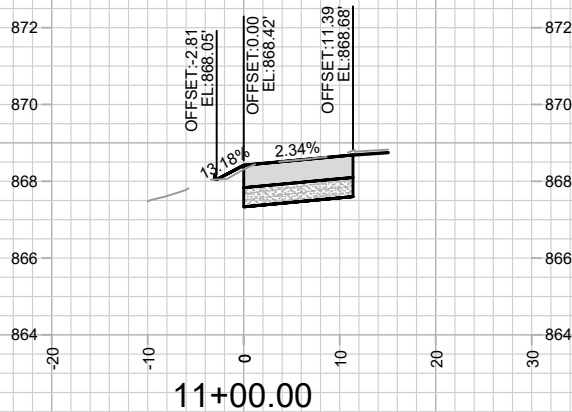
ANCHOR SYSTEM NO. 4 AND NO. 5 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LINEAR FOOT UNIT PRICE BID FOR "EXPANSION DEVICES".

PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE OF COVER PLATE. SEE DETAIL THIS SHEET.

JOINT MANUFACTURER SHALL PROVIDE JOINT DETAILS TO THE STEEL BRIDGE DESIGNER/FABRICATOR.



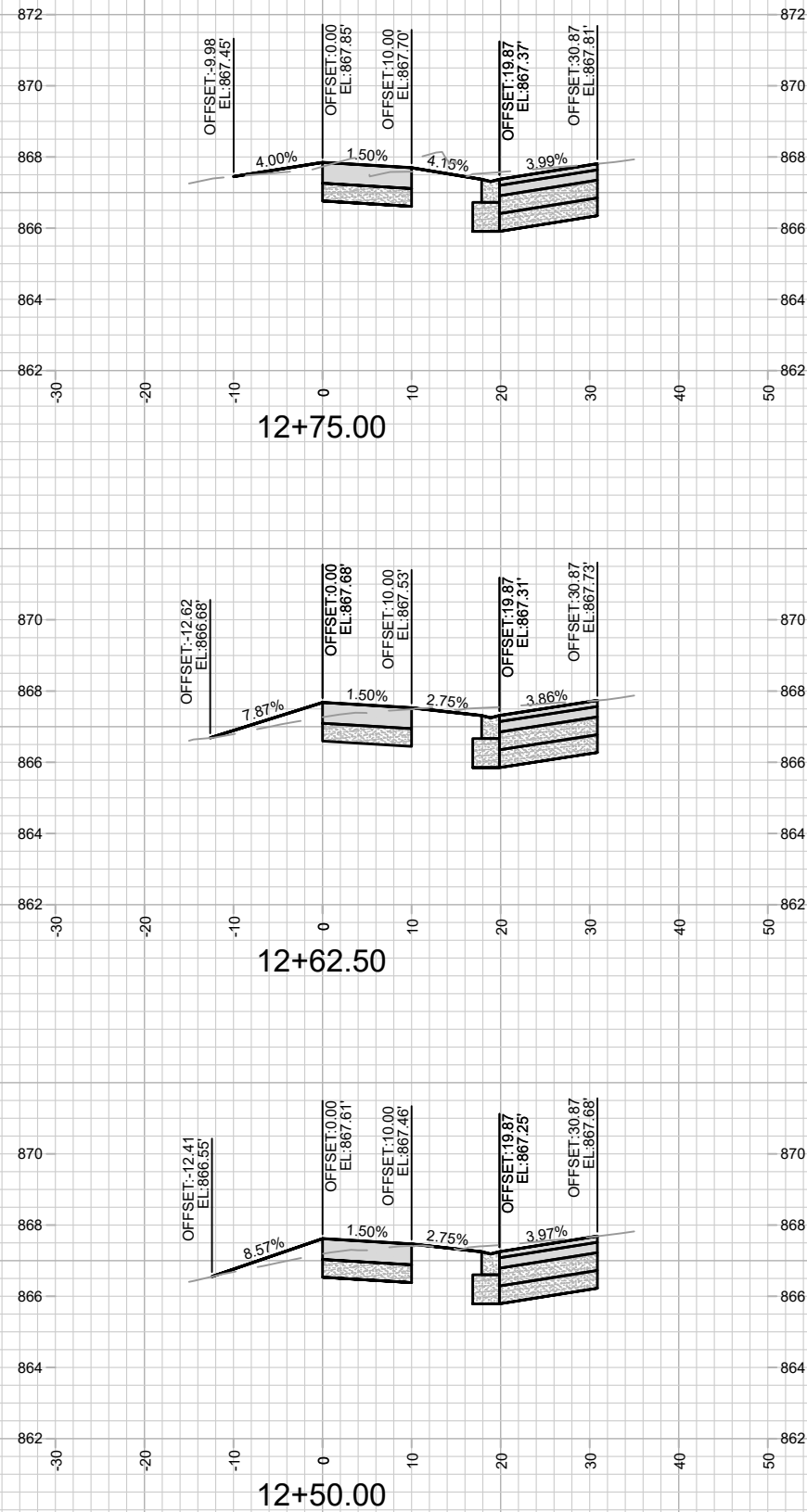
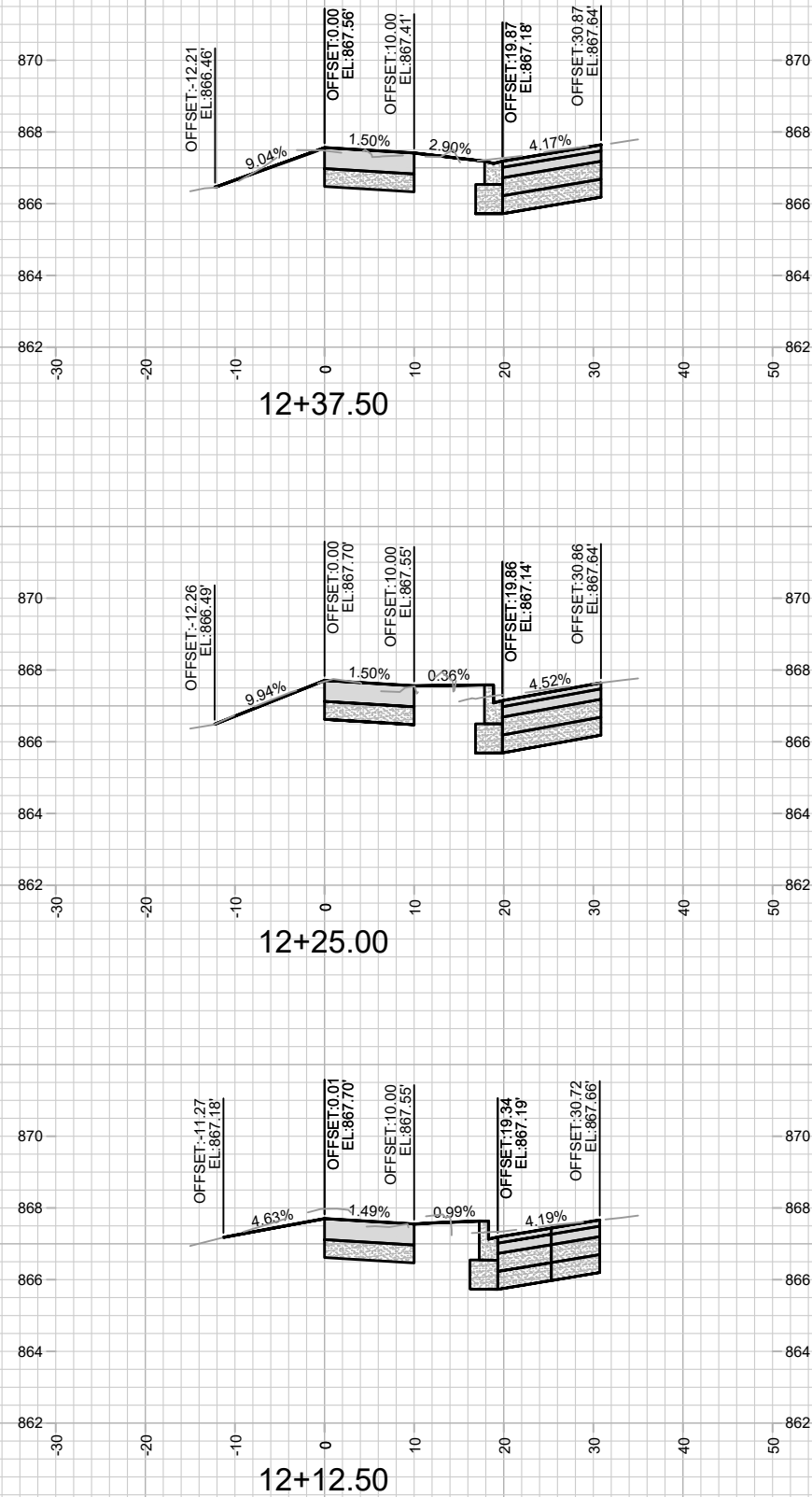
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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

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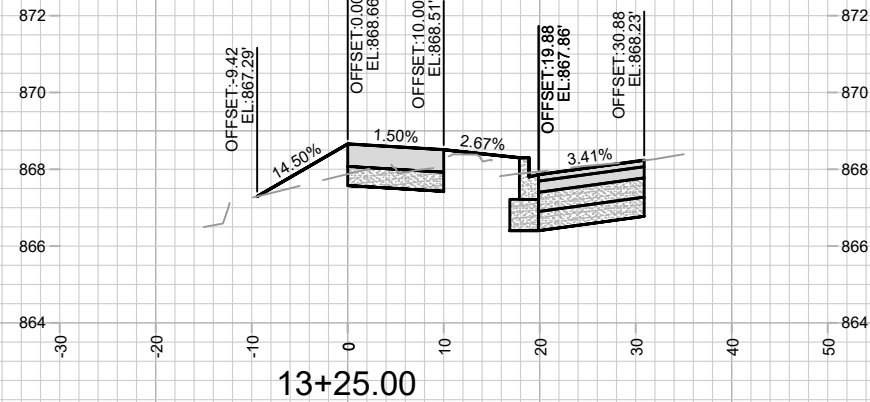
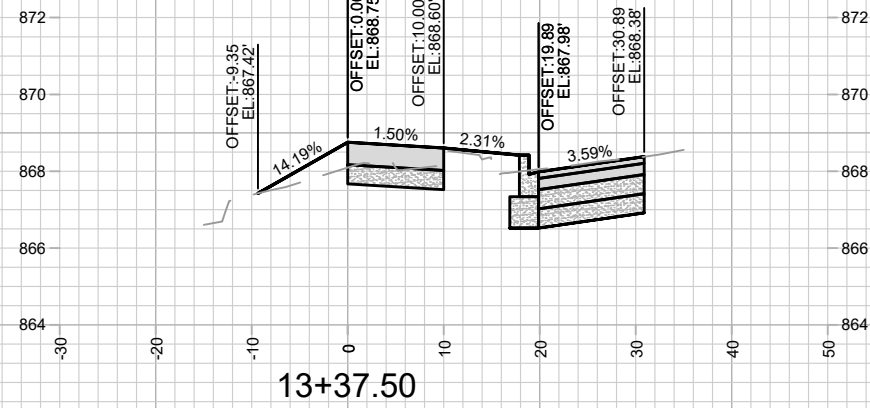
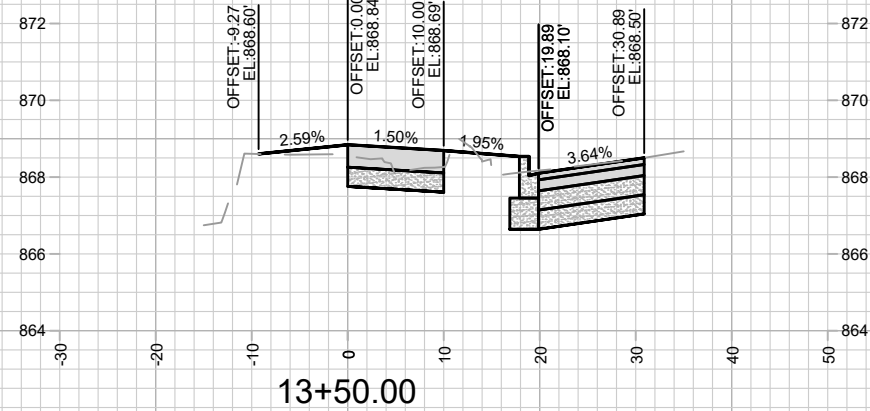
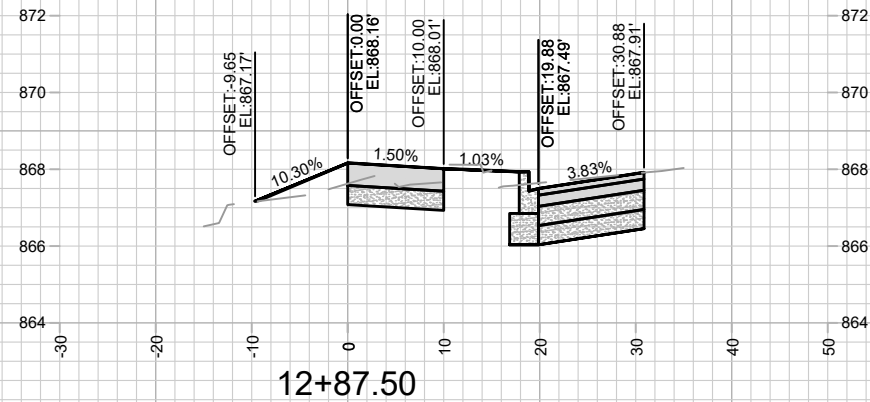
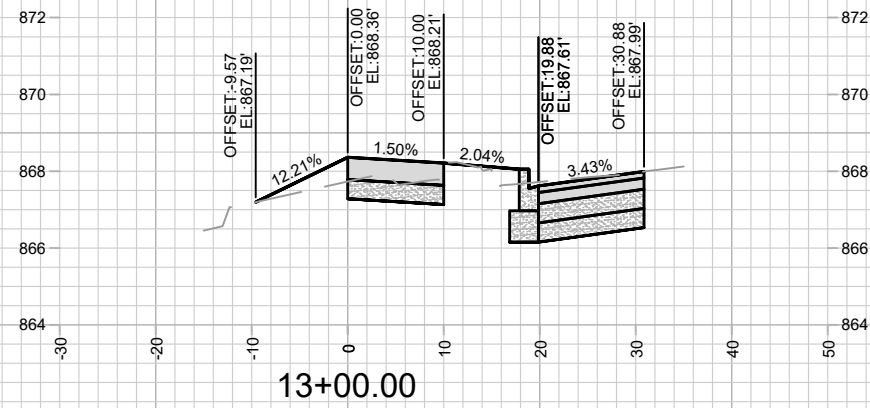
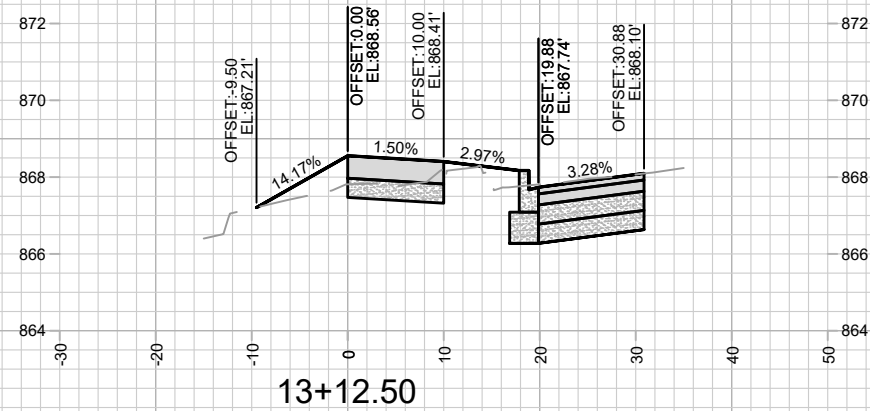
CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

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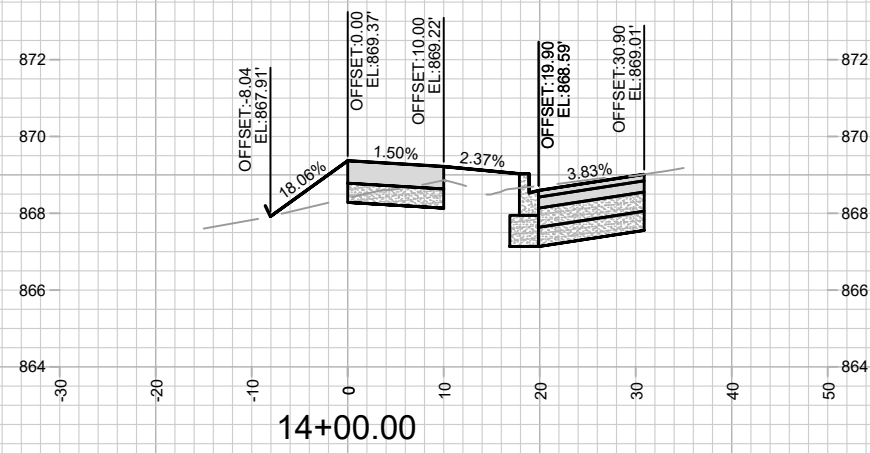
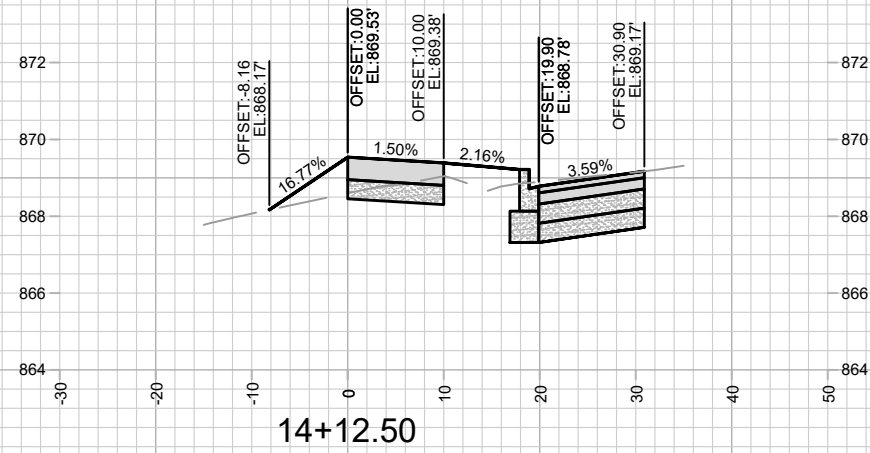
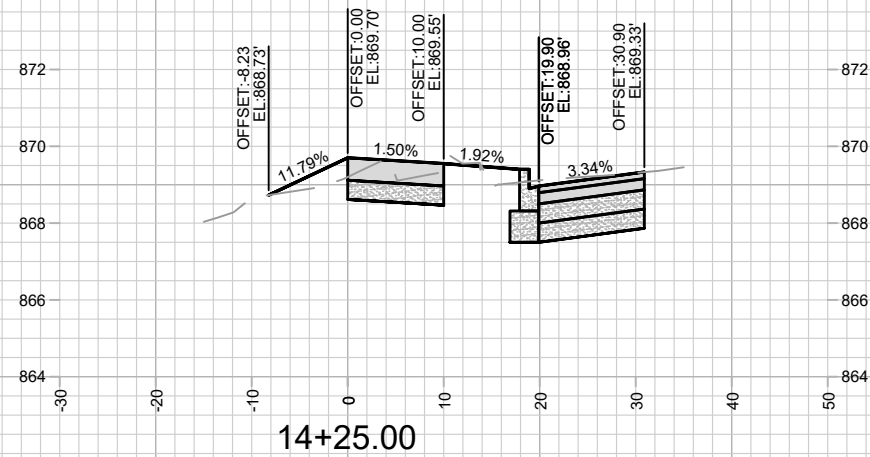
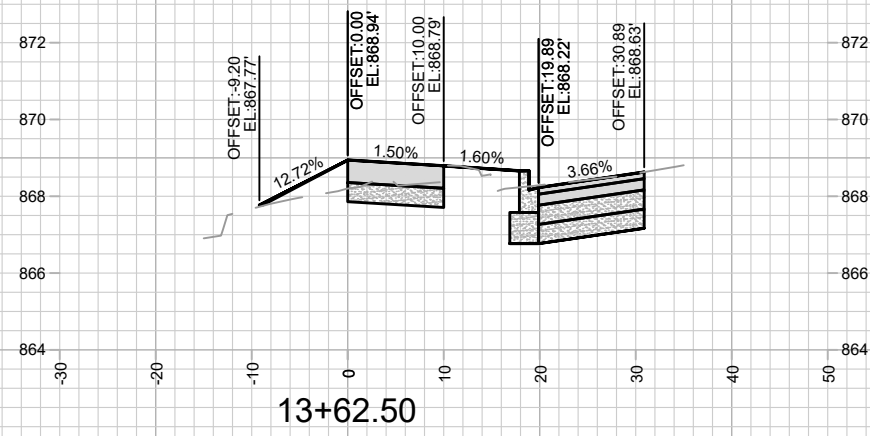
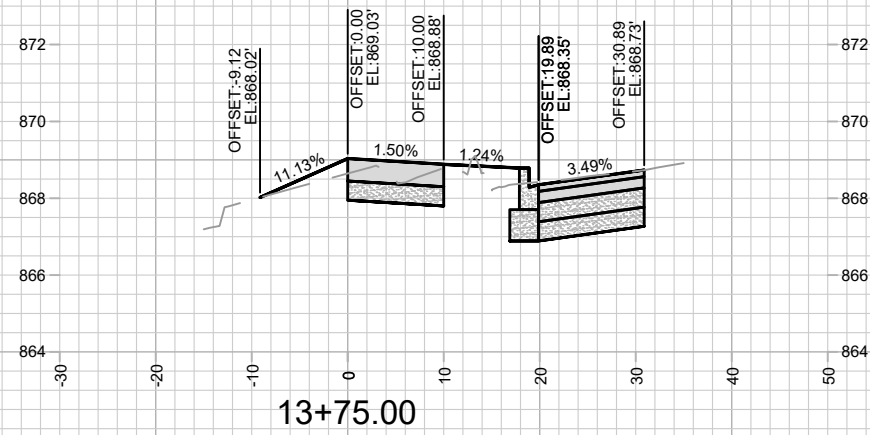
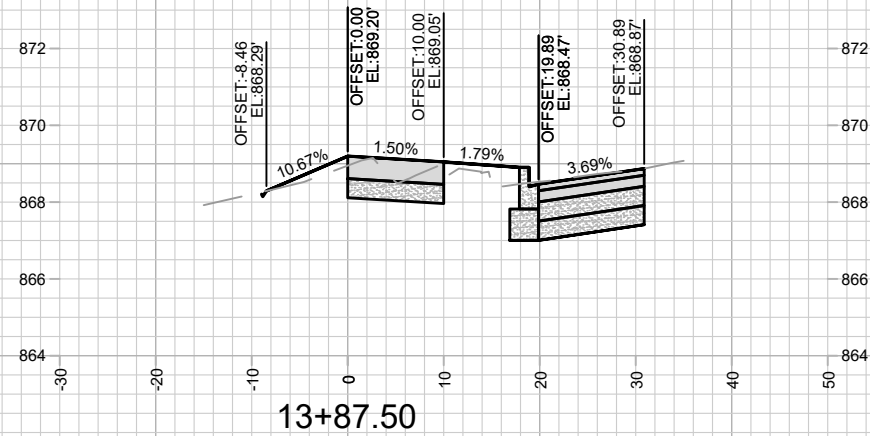


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CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

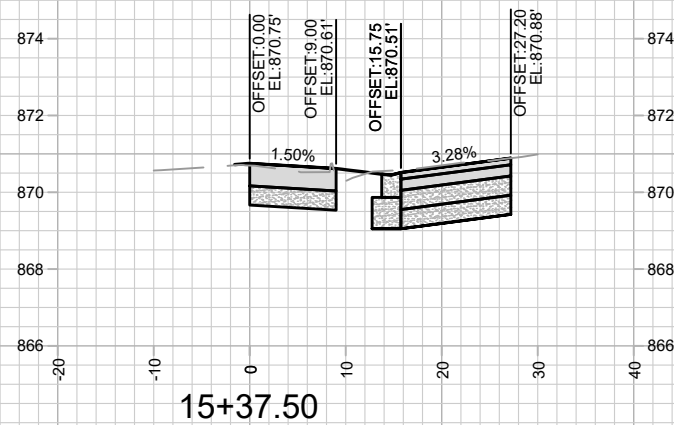
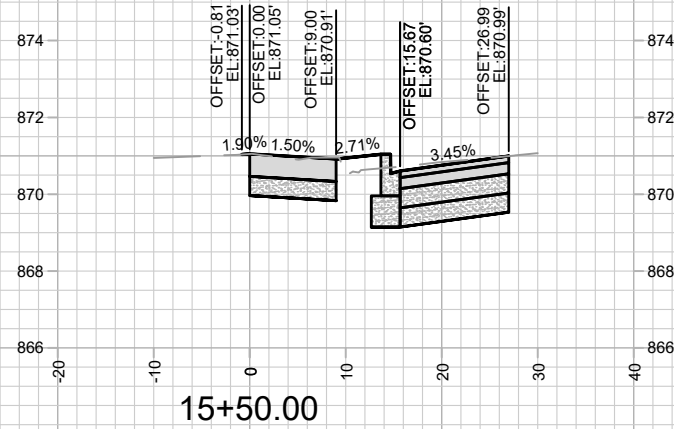
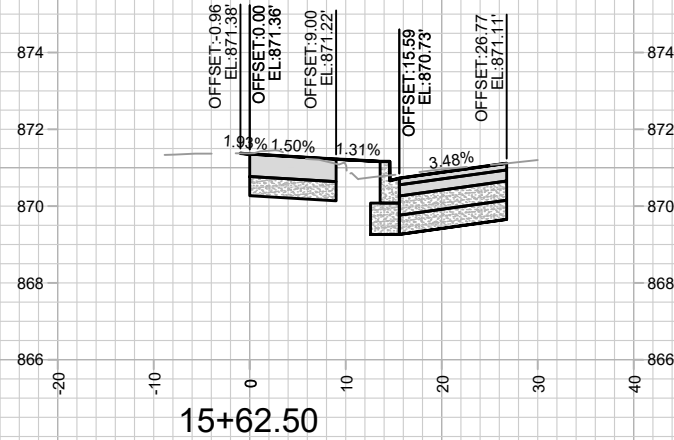
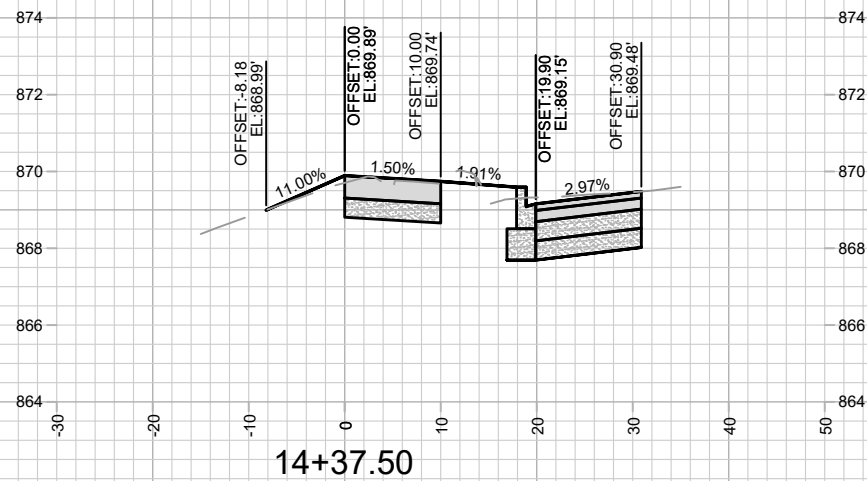
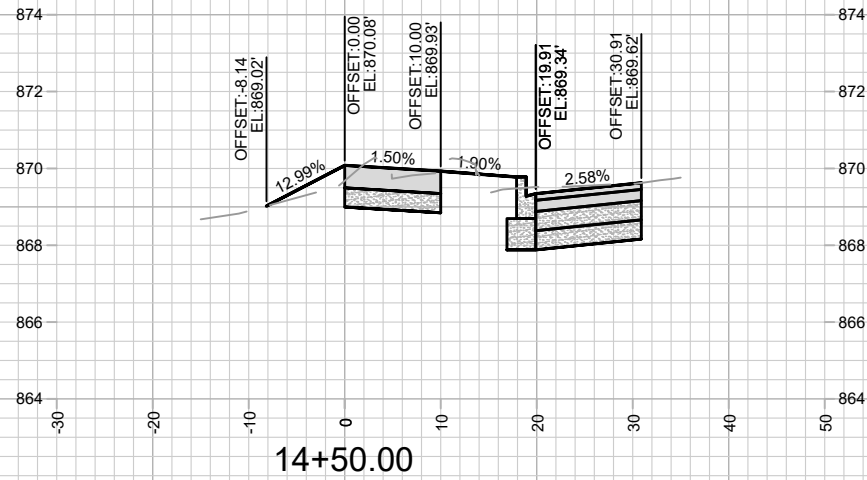
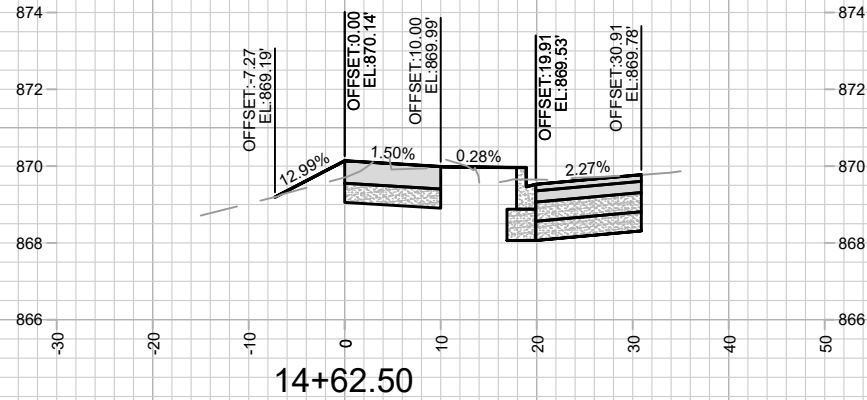
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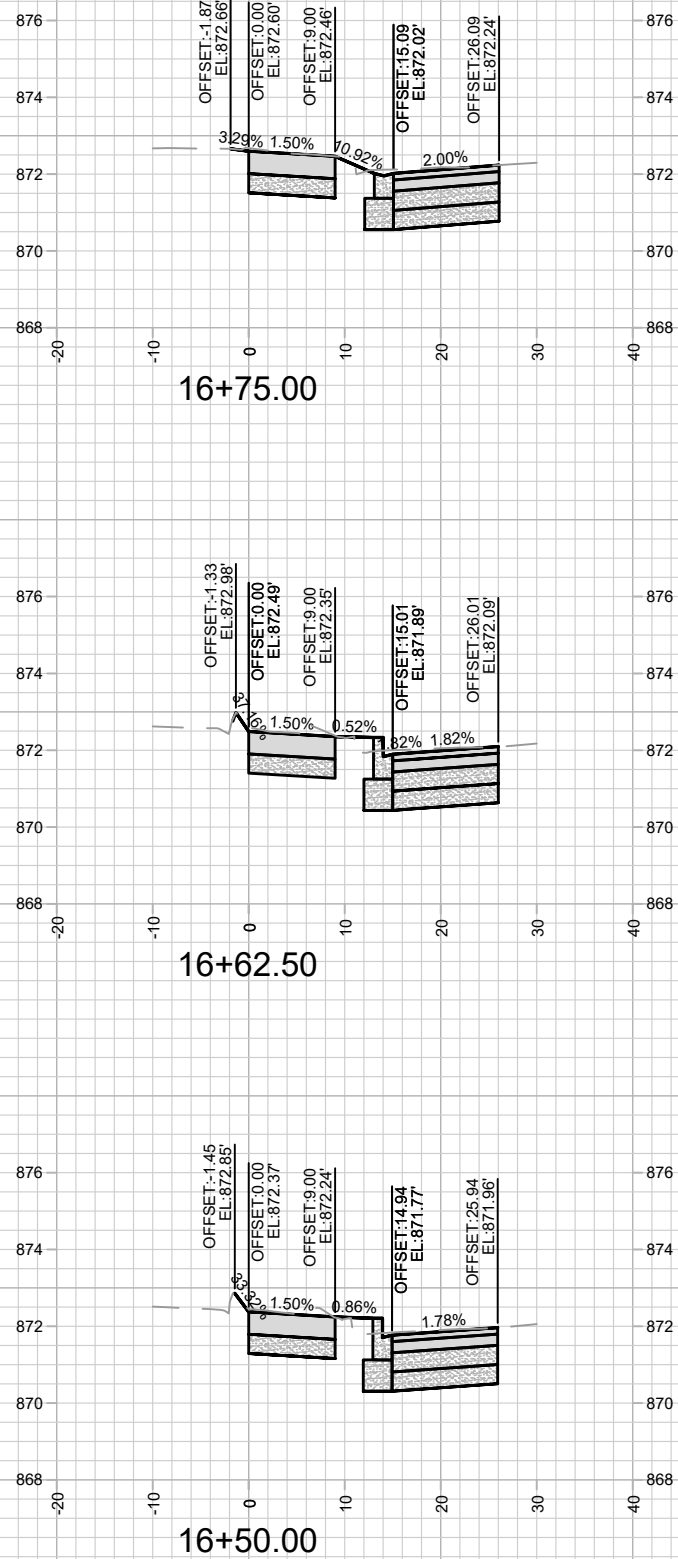
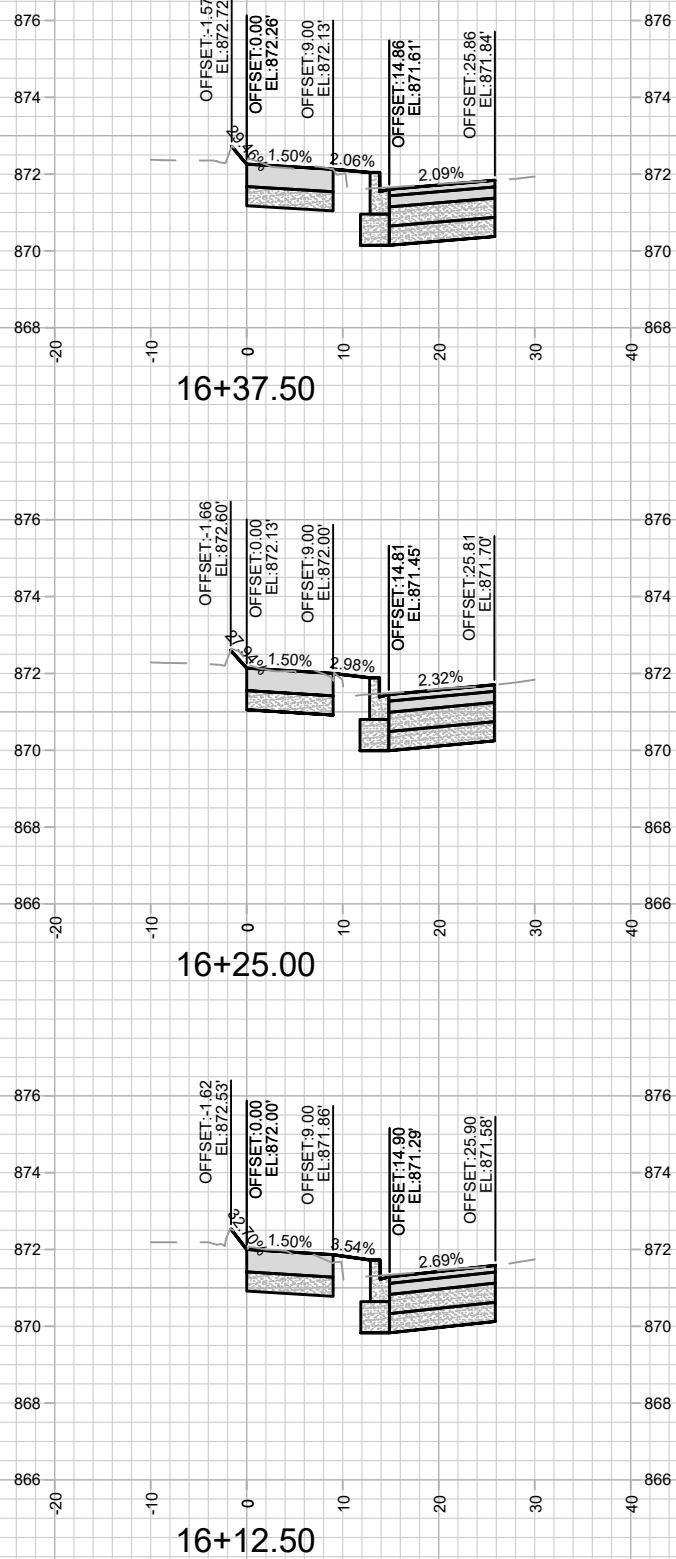
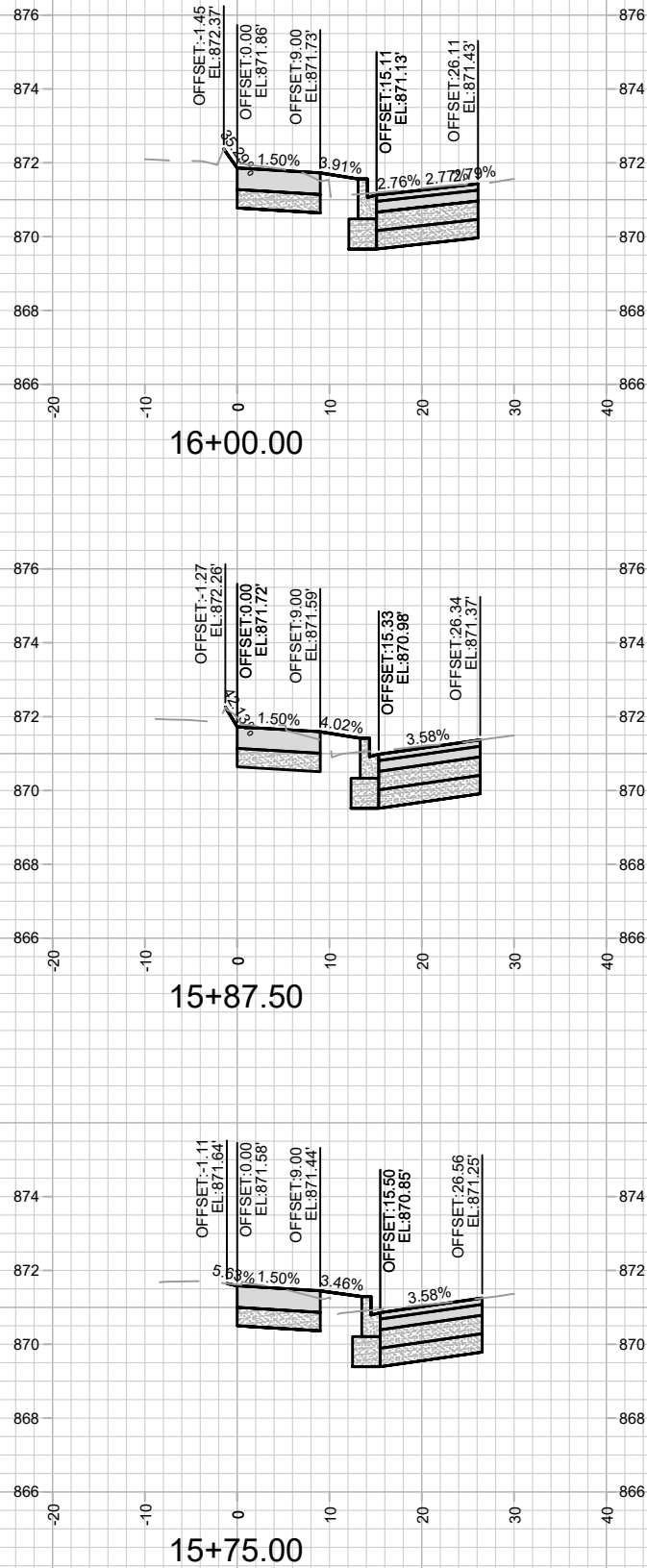
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CANNONBALL PATH: PHASE 6

CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS

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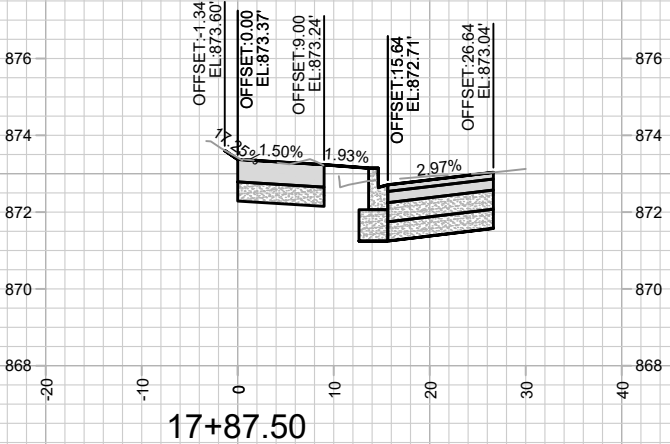
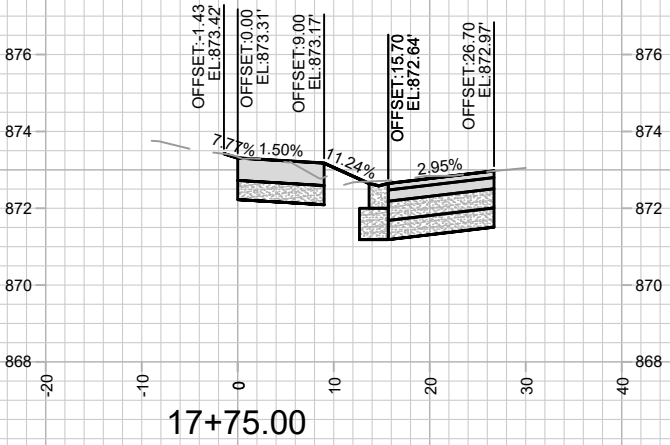
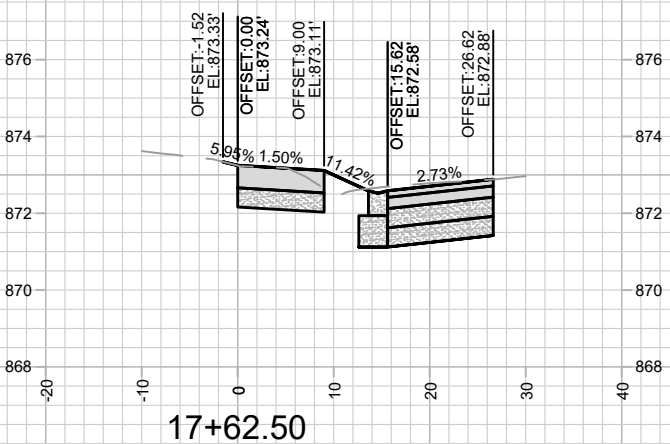
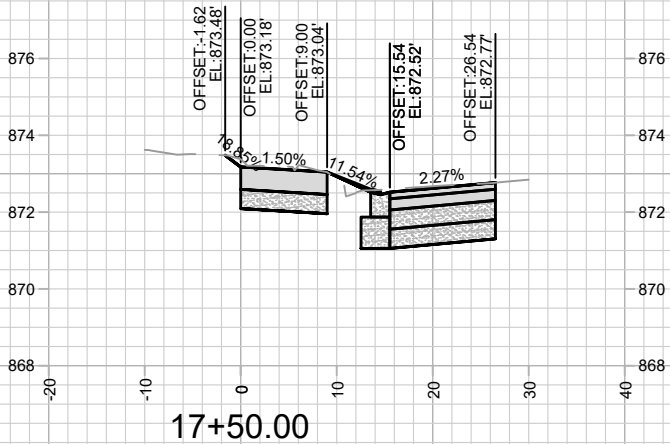
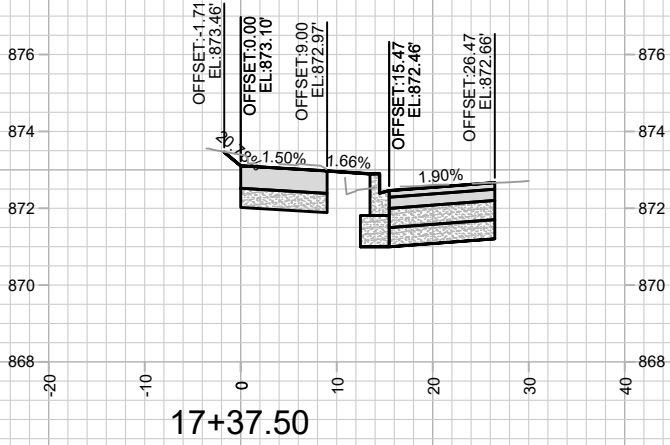
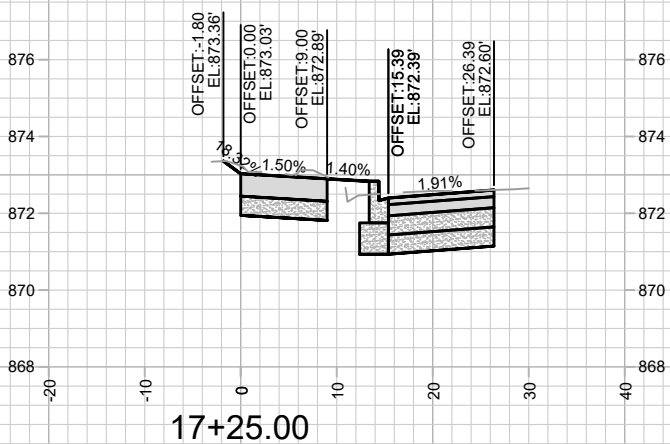
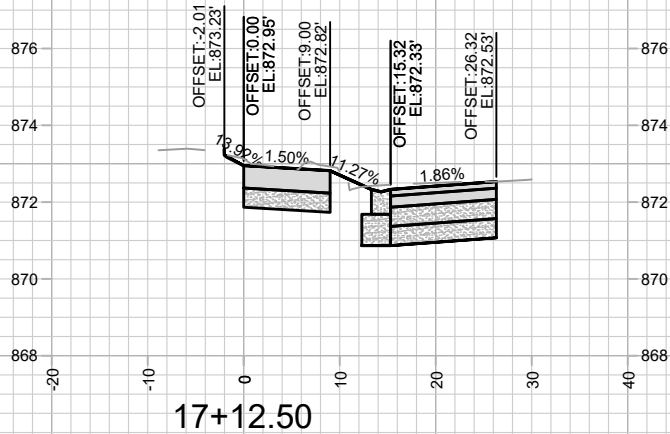
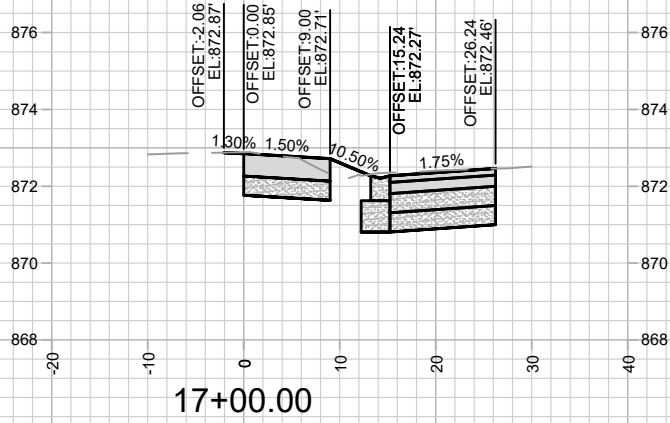
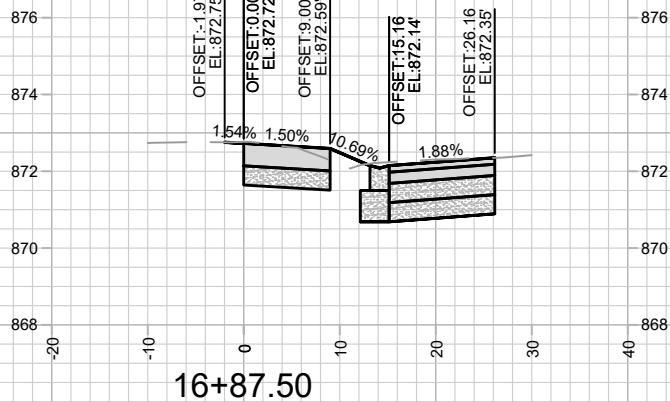
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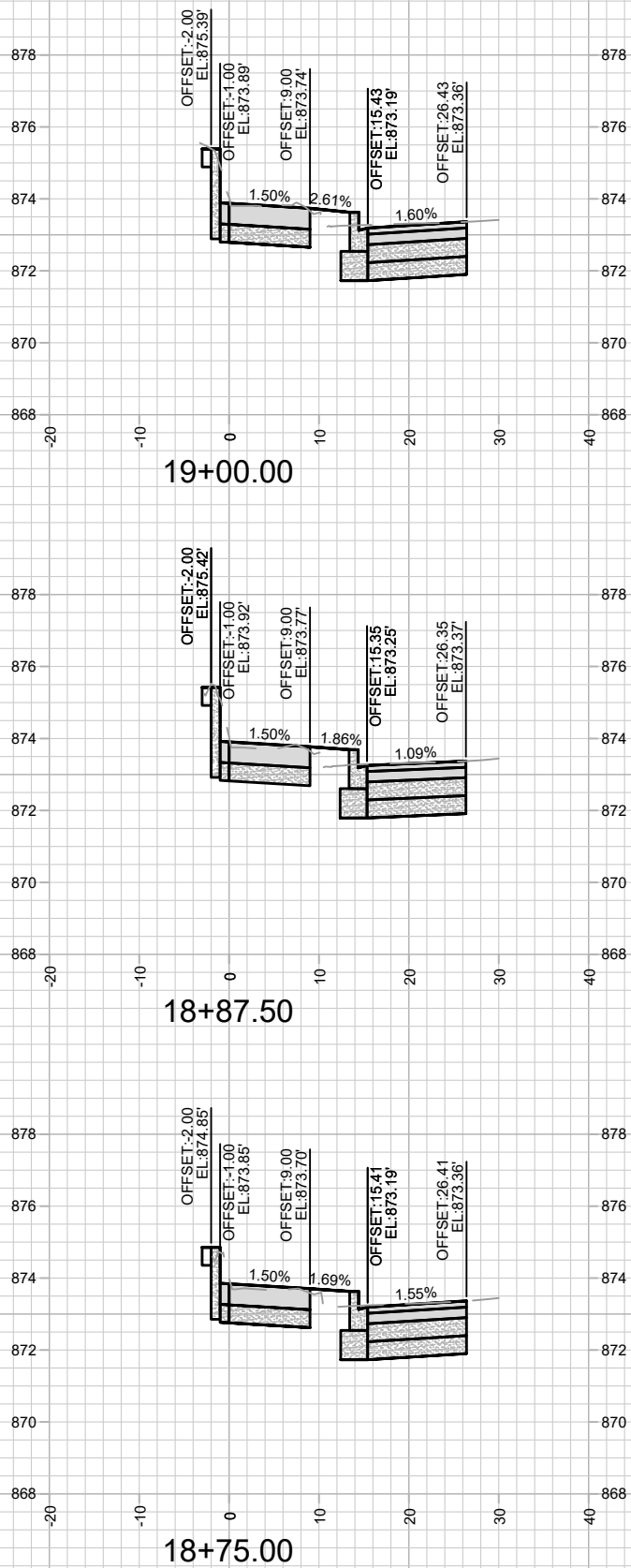
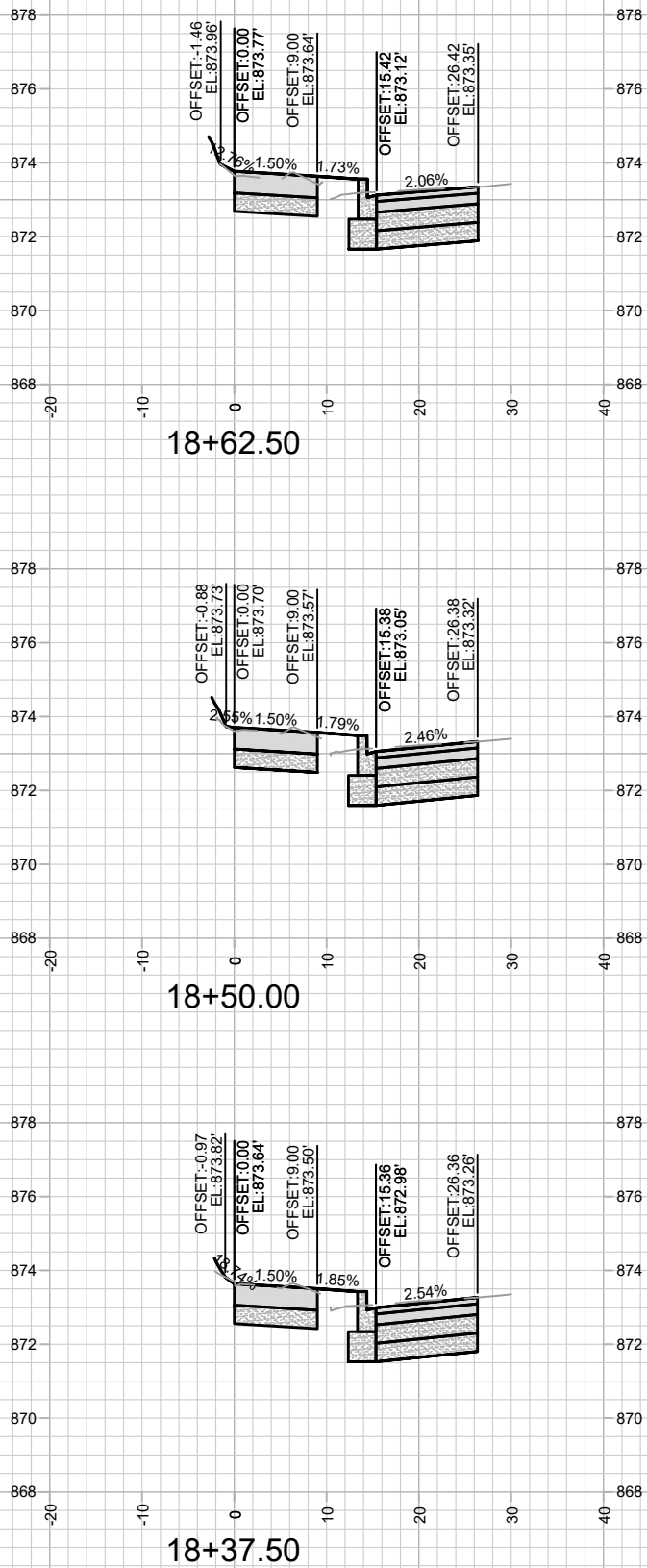
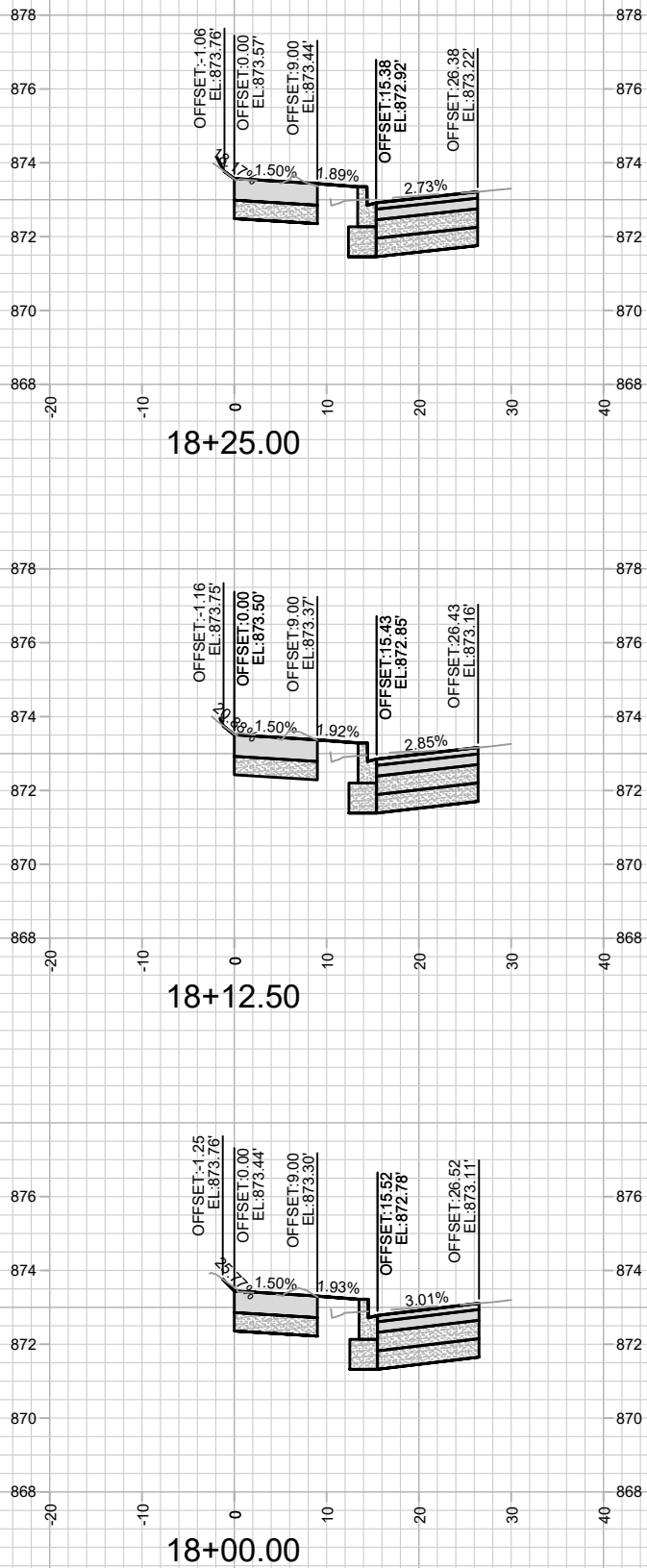


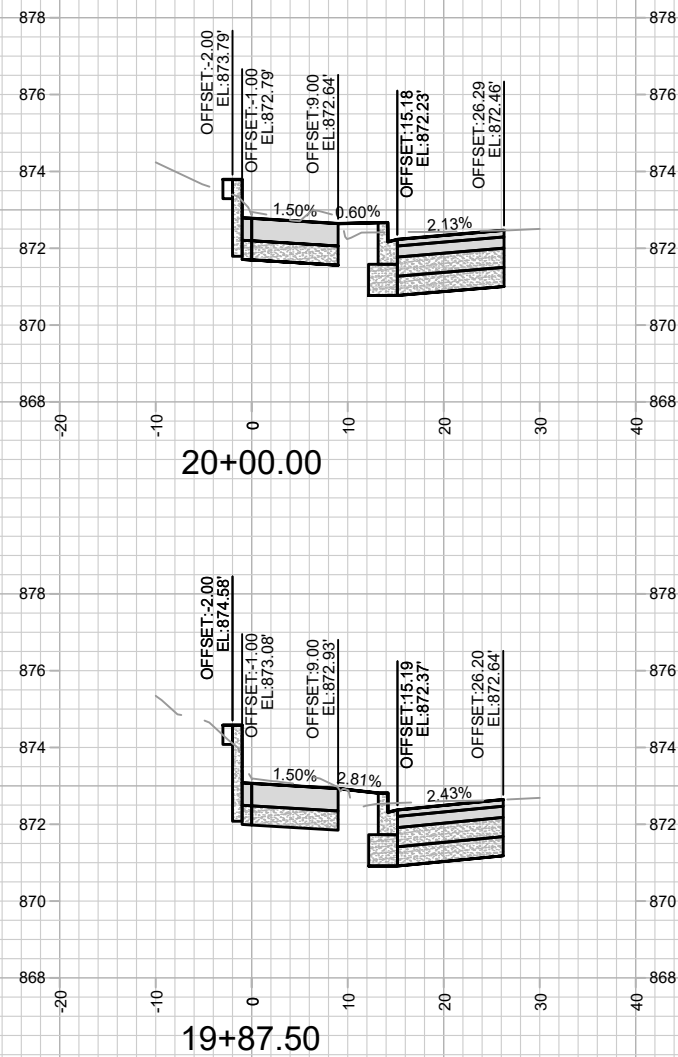
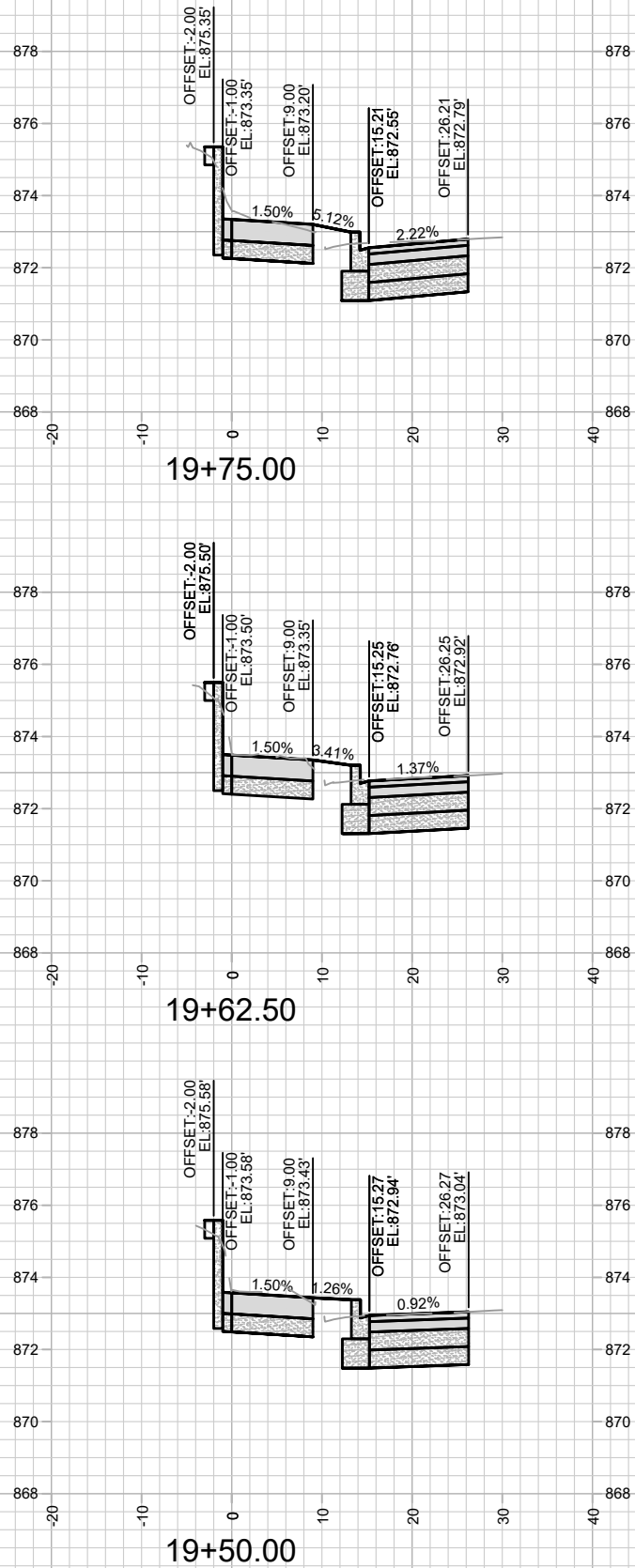
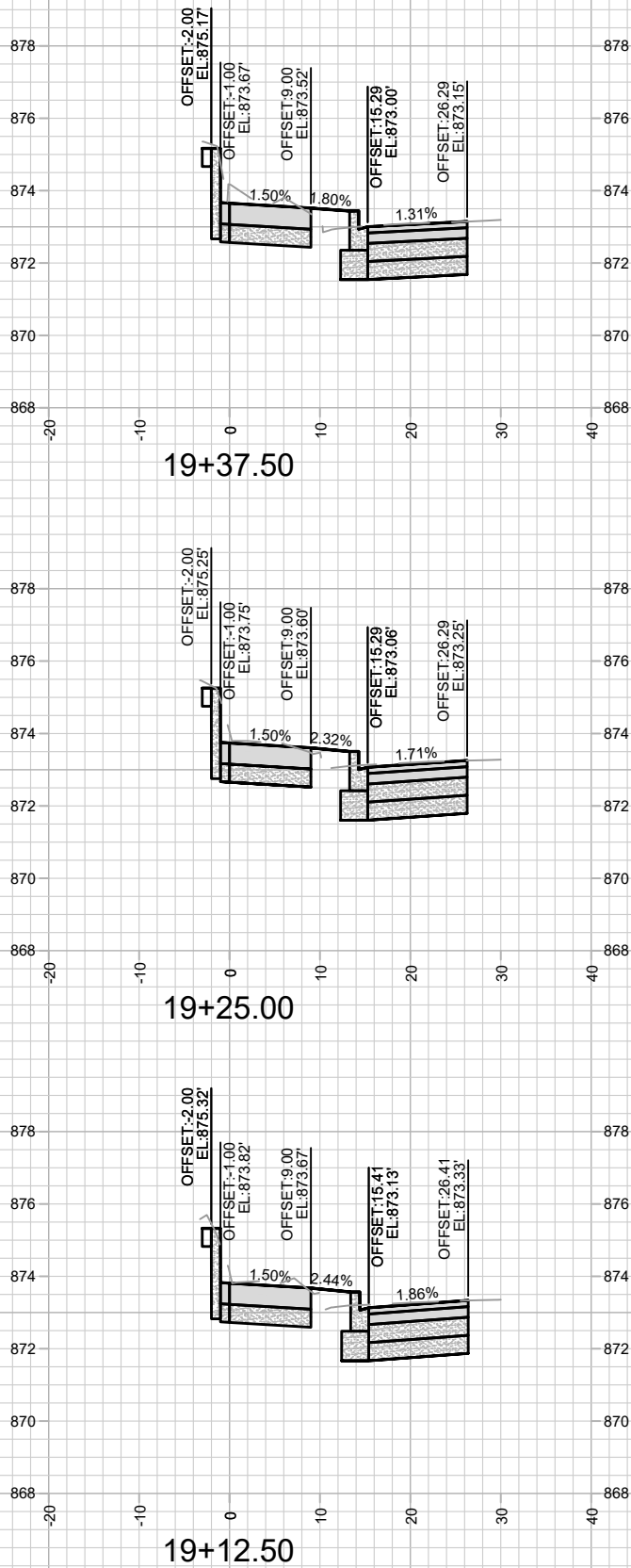
10153
X-7

CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

MADISON, WI
CONTRACT NO: 7431

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10153	10153	4/23/2026 1:24 PM	X-7





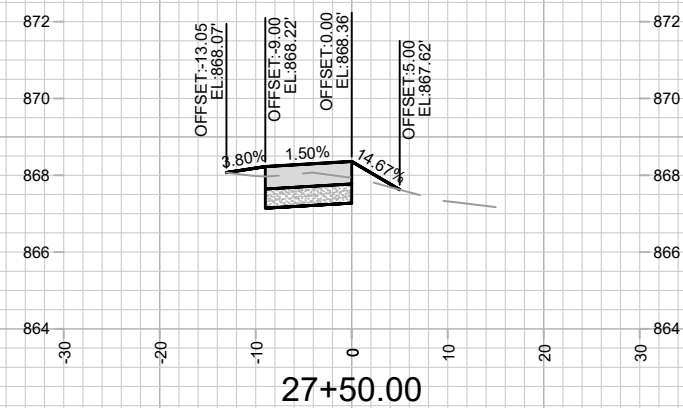
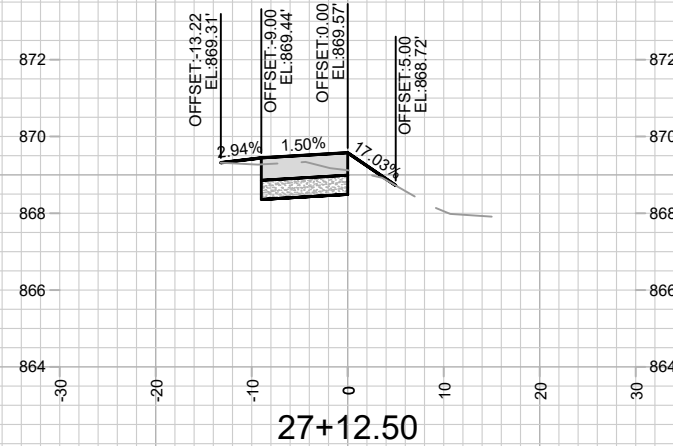
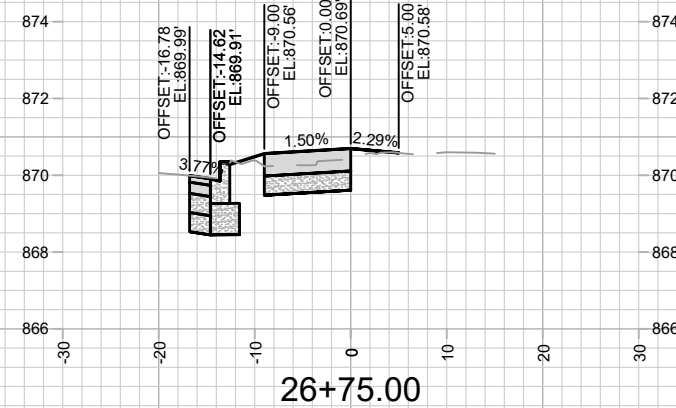
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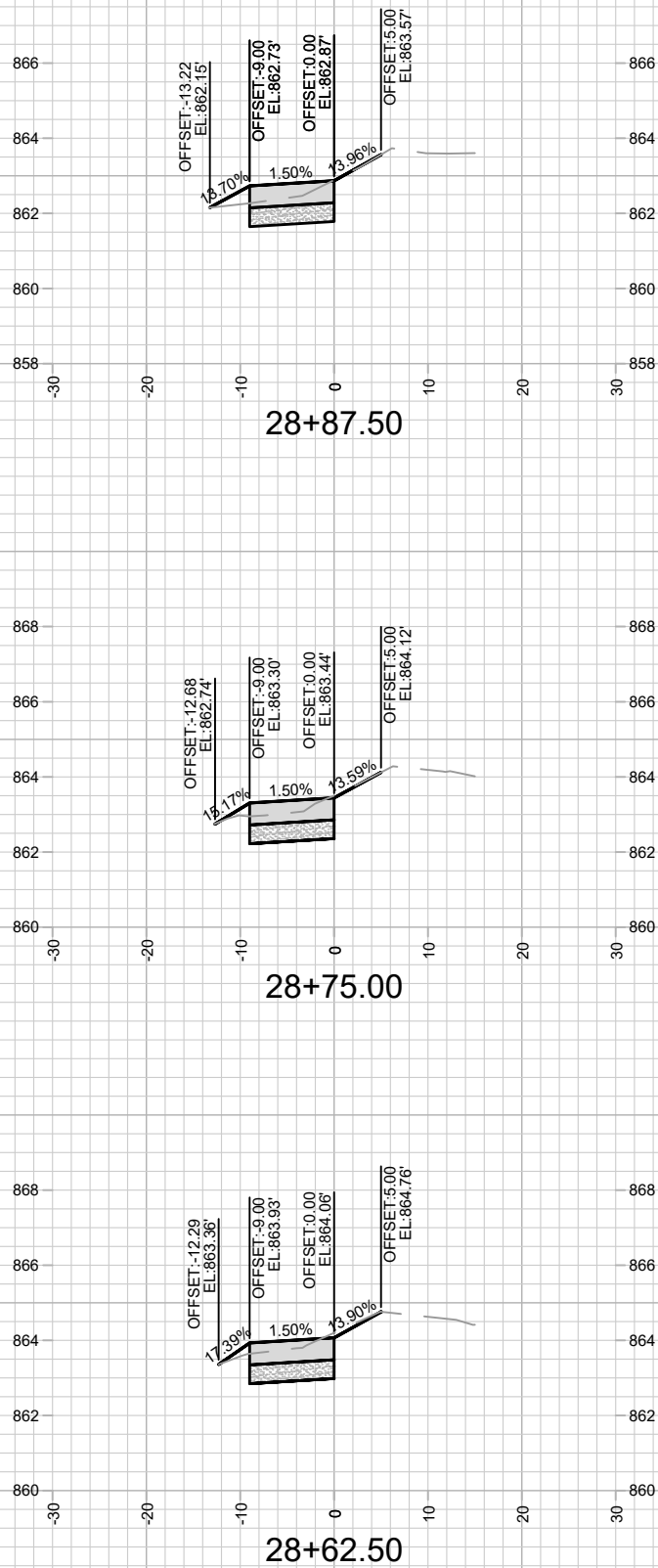
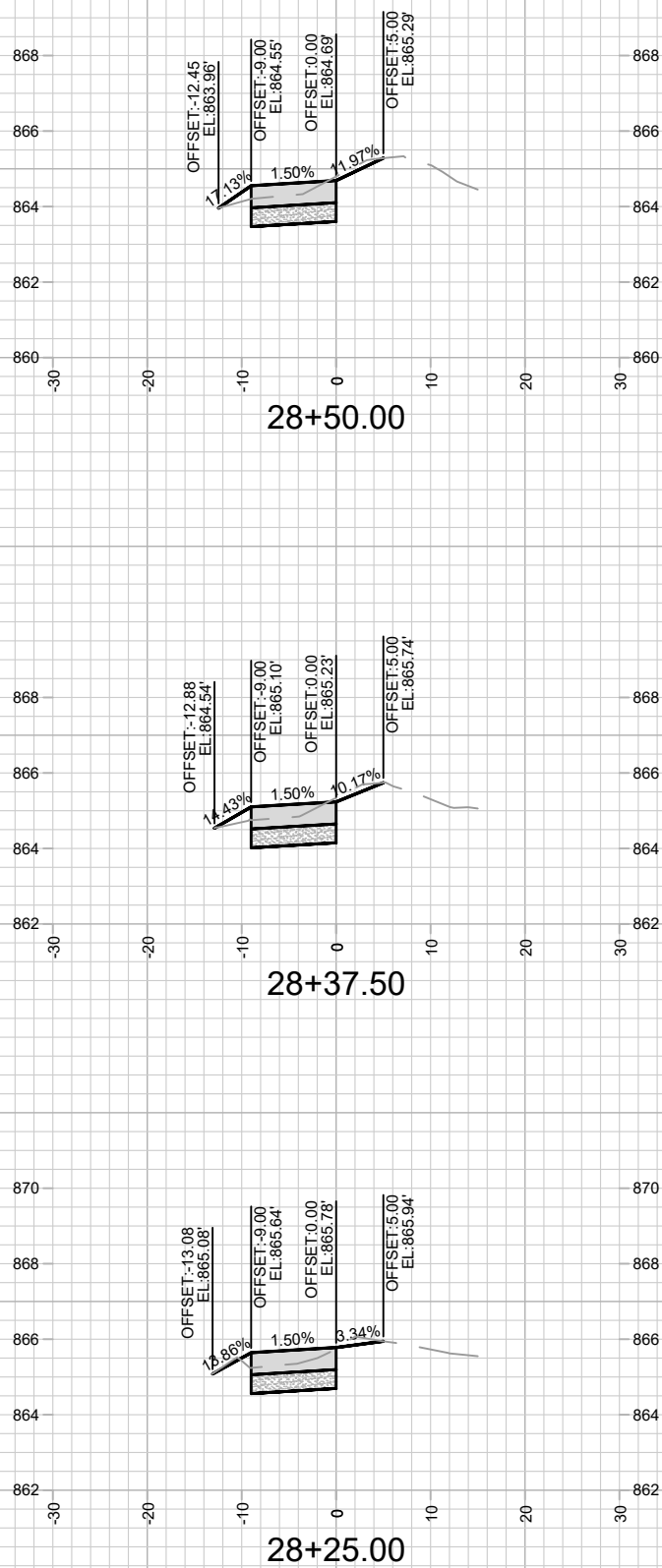
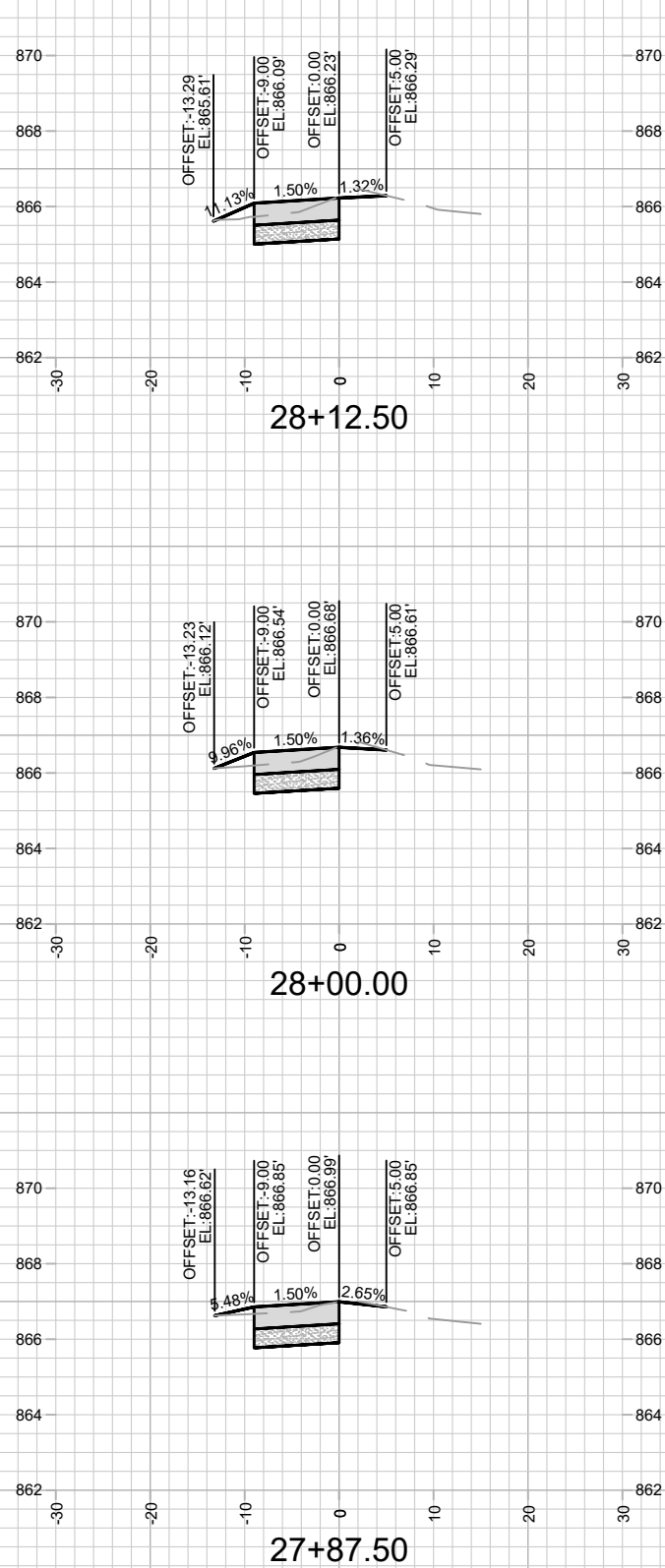
CANNONBALL PATH (RR TO CARVER ST) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431
CONTRACT NO:

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10153
X-11

CANNONBALL PATH (CARVER ST TO BOWMAN FIELD) - CROSS SECTIONS
CANNONBALL PATH: PHASE 6

10153
MADISON, WI
7431

CONTRACT NO:

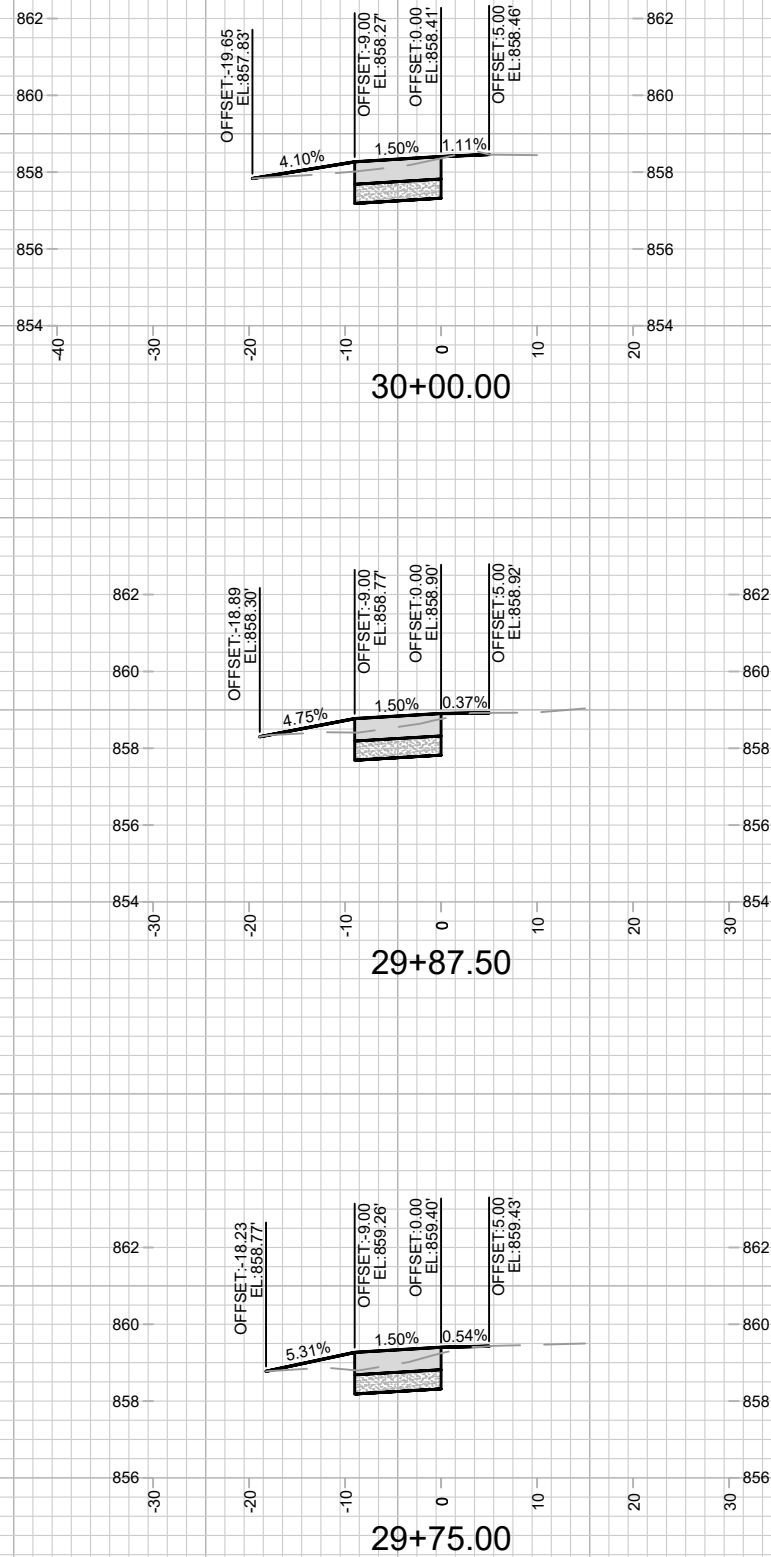
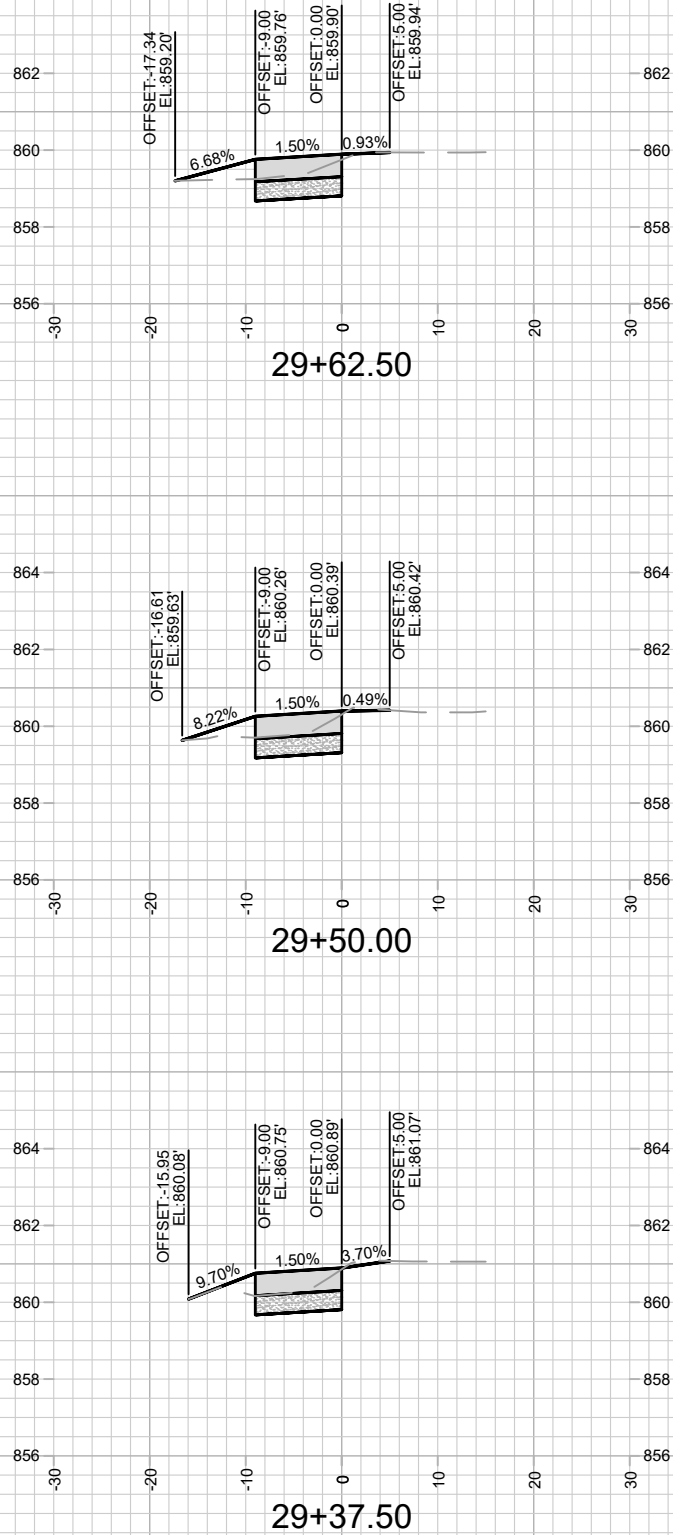
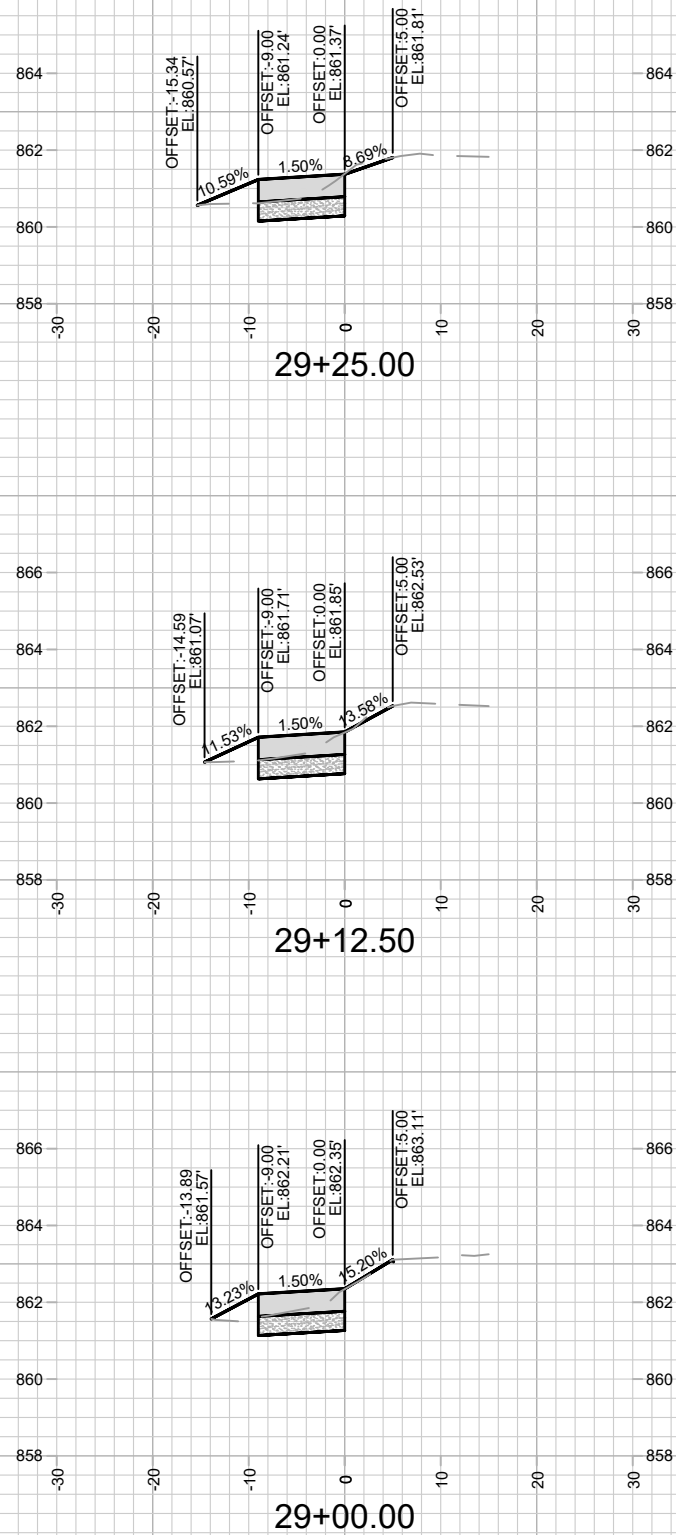
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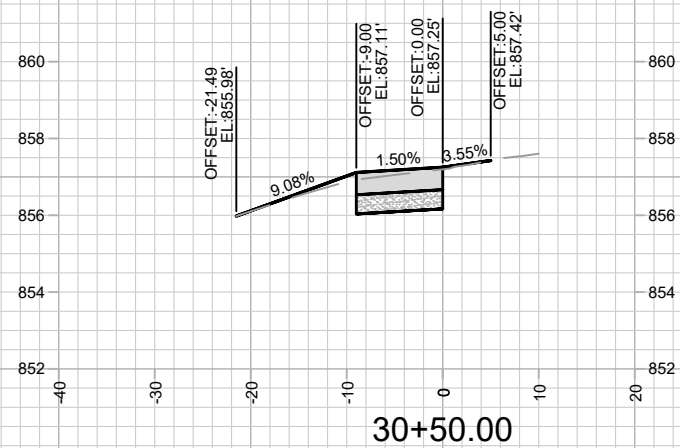
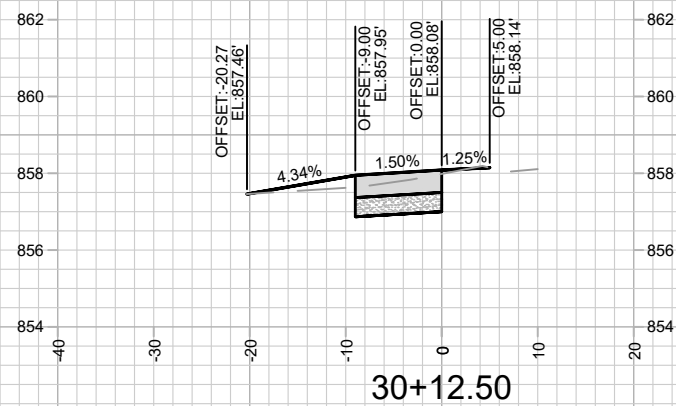
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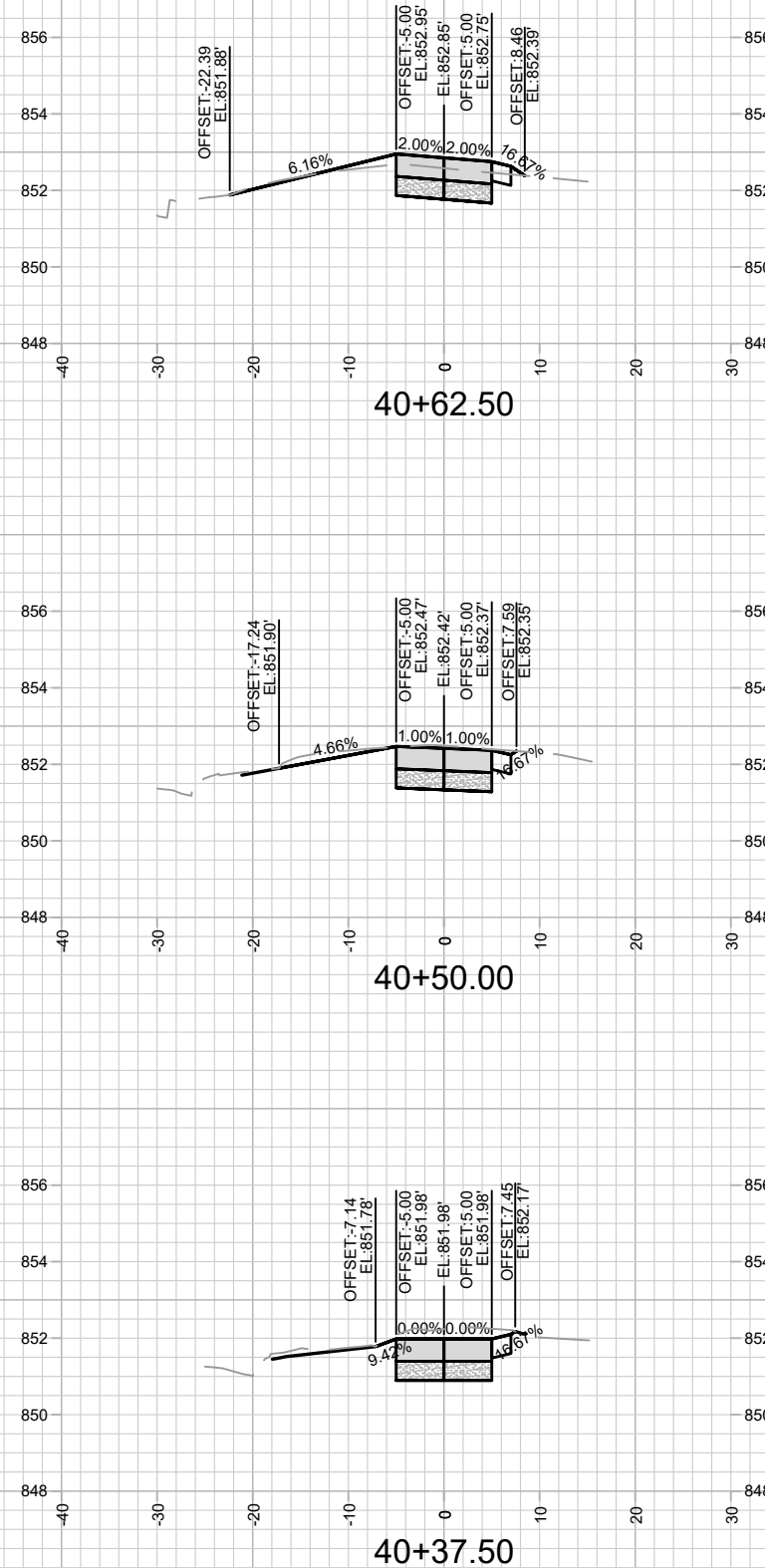
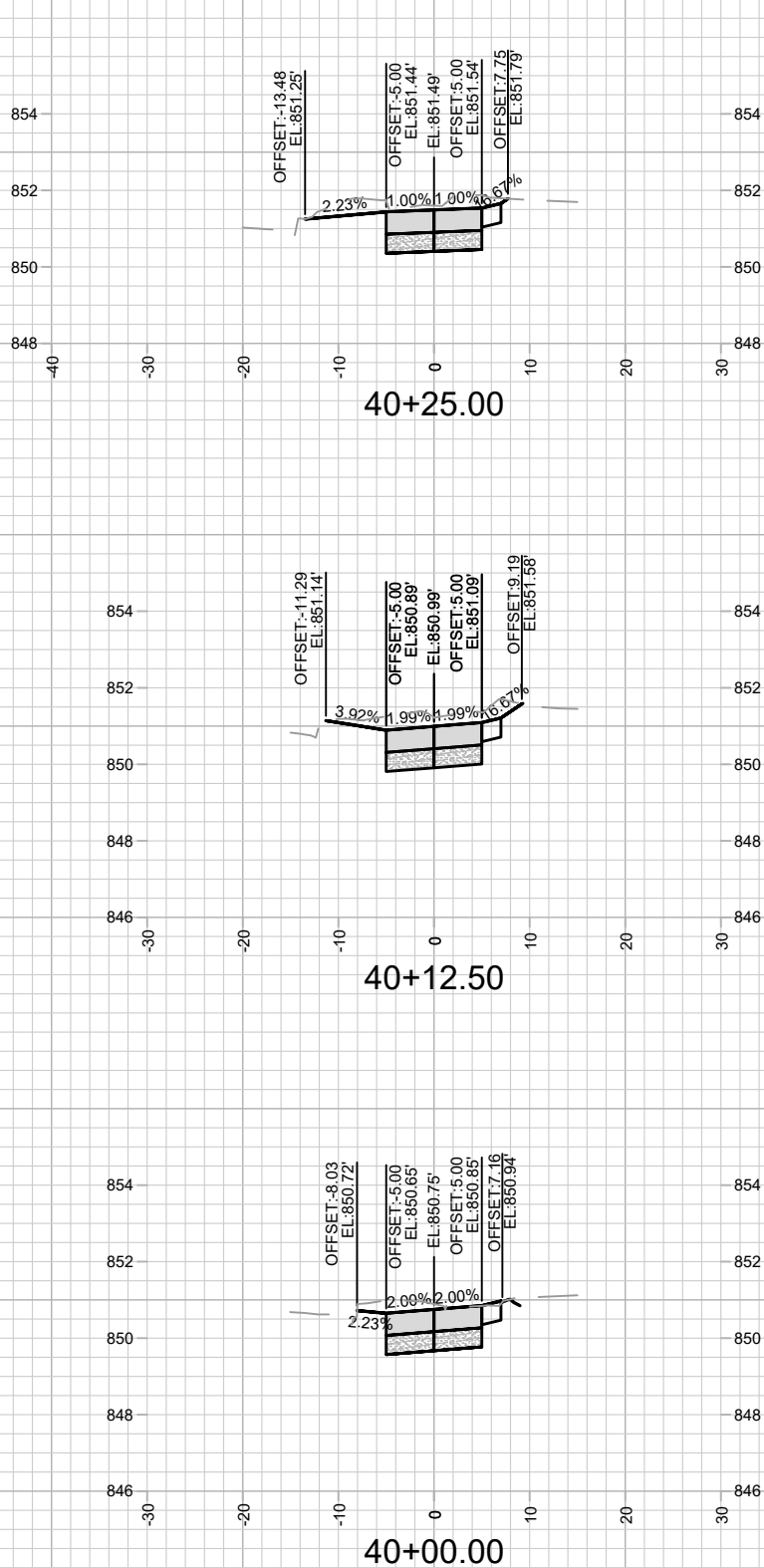
REVISION

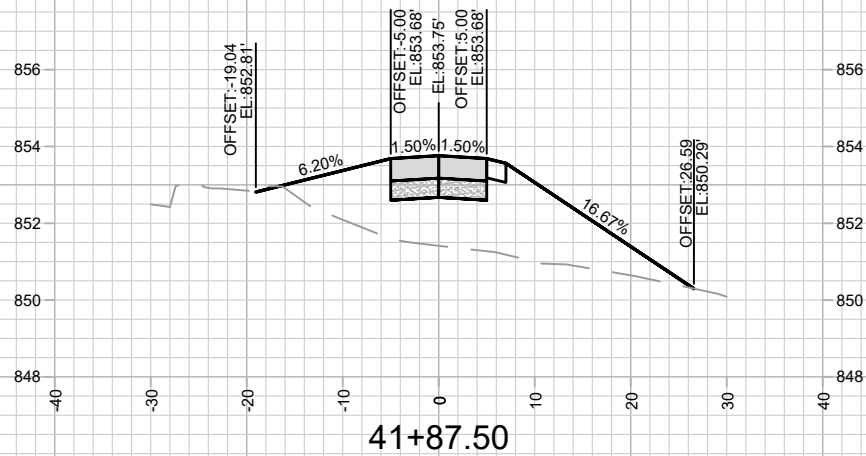
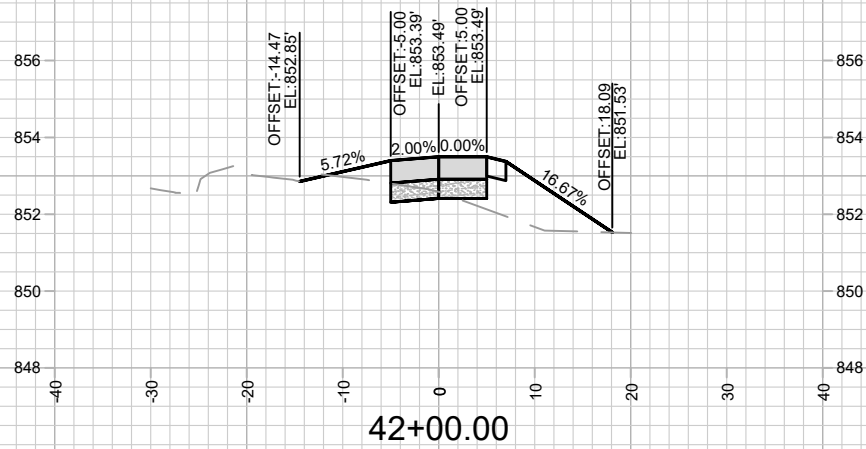
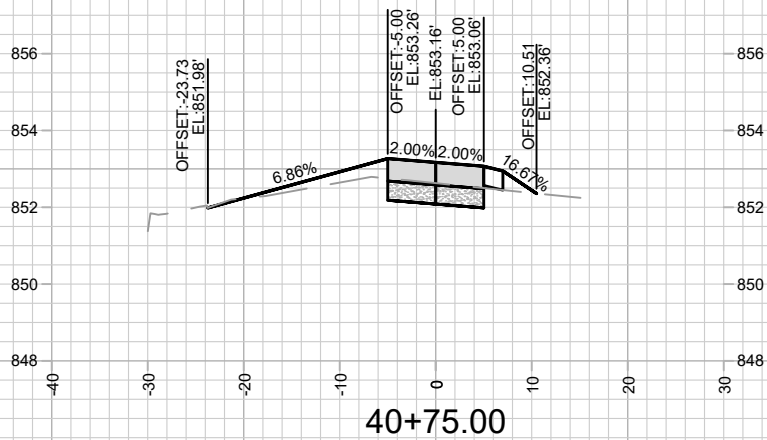
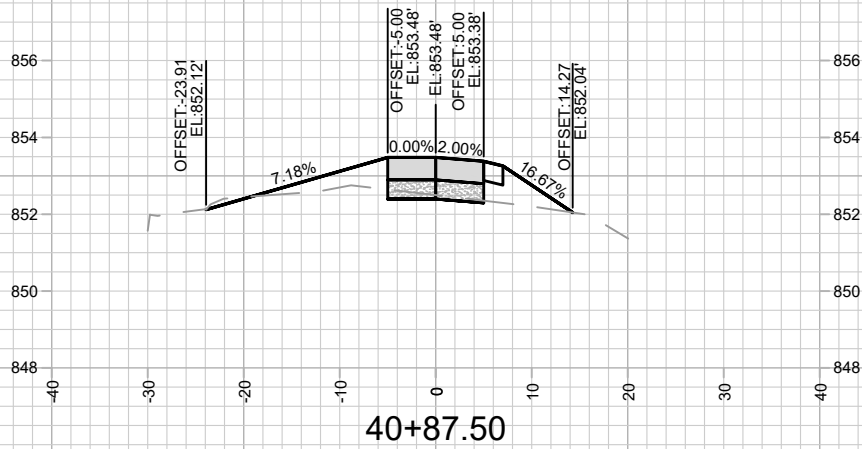
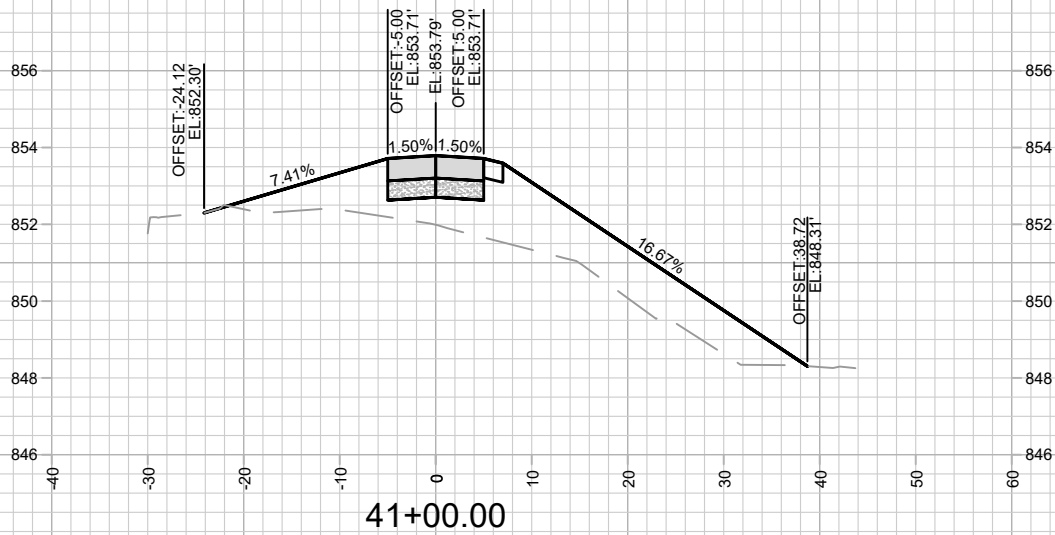
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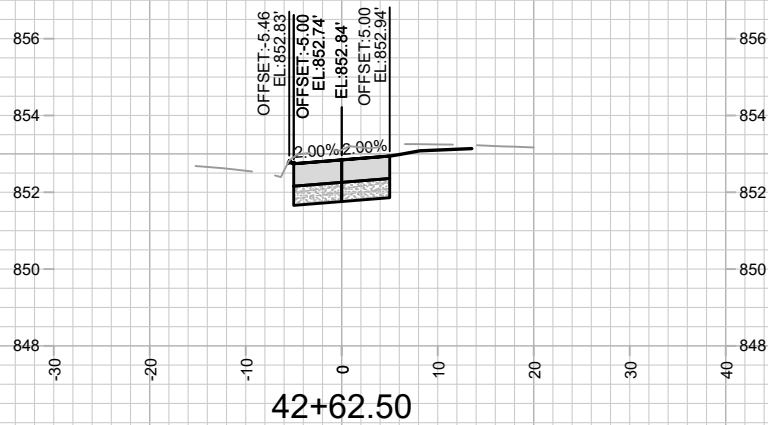
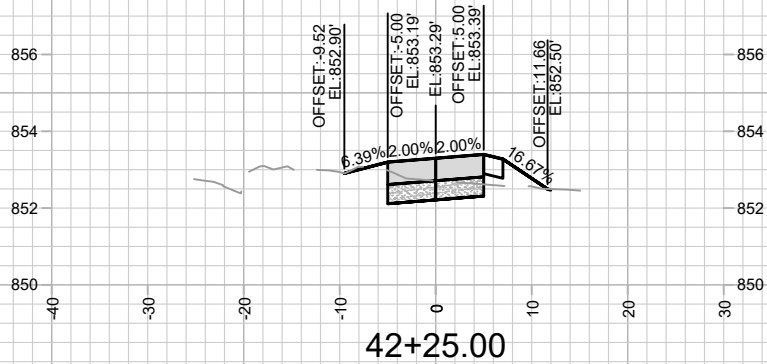
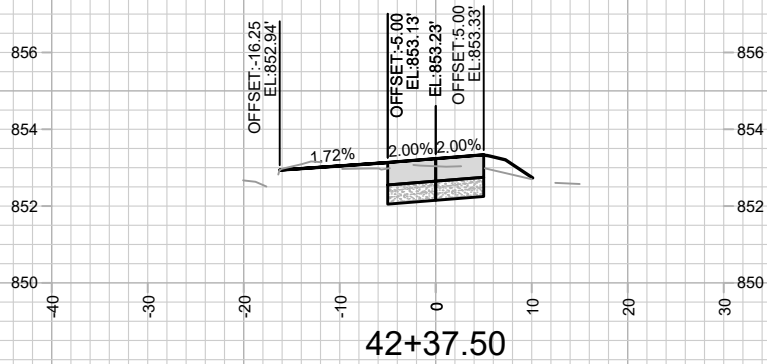
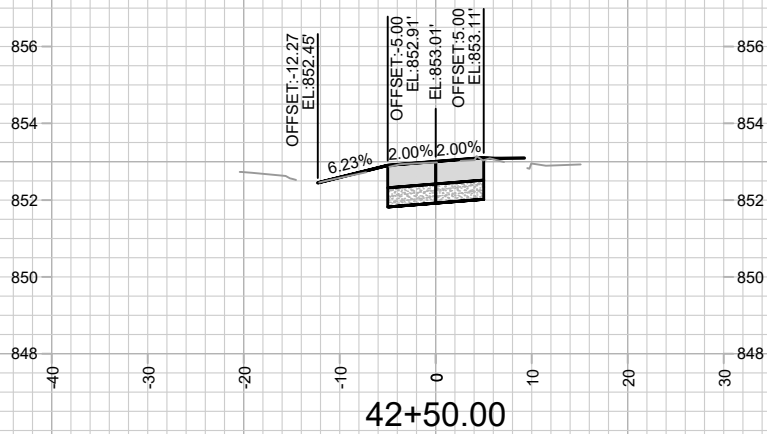




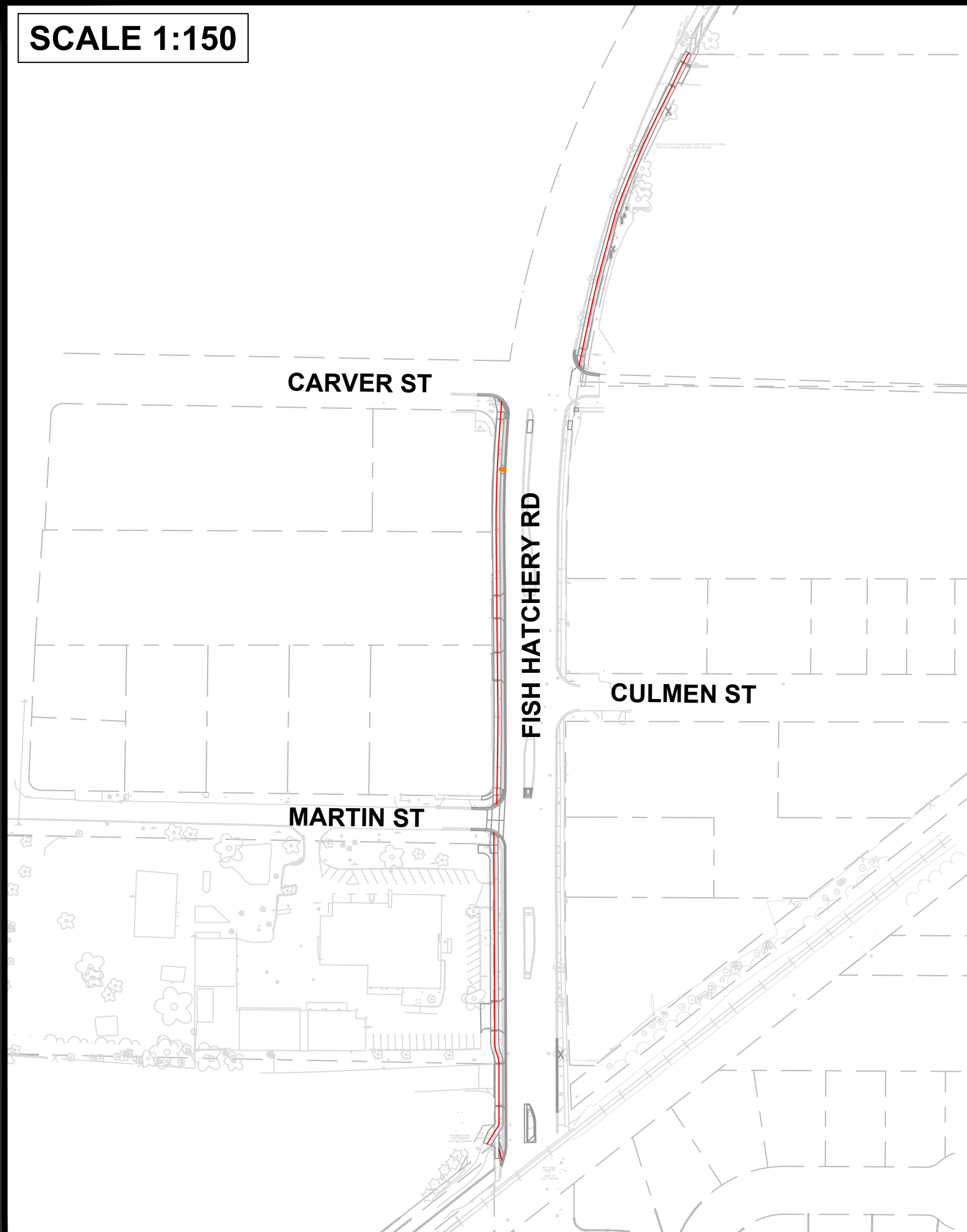
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CANNONBALL PATH (PLAENERT DR TO WINGRA PATH) - CROSS SECTIONS
MADISON, WI
CANNONBALL PATH: PHASE 6
CONTRACT NO: 7431

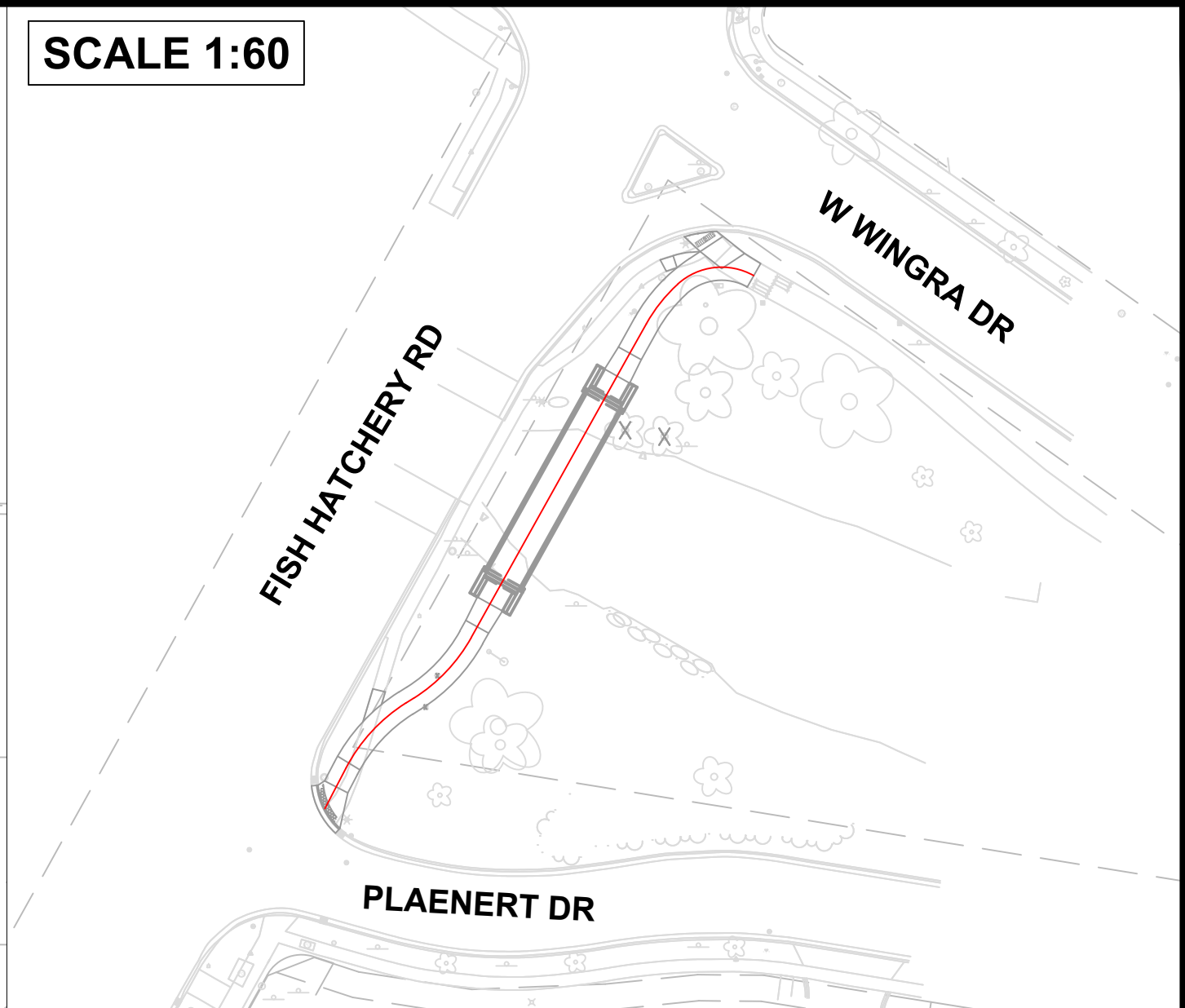
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SCALE 1:150



SCALE 1:60



MAINTENANCE LEGEND:

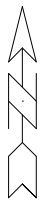
- [Green Box] = TERRACE REQUIRE MOWING BY CITY
- [Red Box] = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- [Orange Box] = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- [Light Blue Box] = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
- [Purple Box] = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)

SPECIAL FEATURES LEGEND:

- [Green Grid Box] = SUSPENDED PAVEMENT SYSTEM
- [Pink X Box] = STORM WATER FEATURE
- [Purple Line] = UNDERDRAIN

- [Blue Outline Box] = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
- [Black Outline Box] = PUBLIC CITY PARK PROPERTY
- [Pink Outline Box] = PRIVATE OUTLOT
- [Orange Outline Box] = PHASE BOUNDARY

NOT FOR CONSTRUCTION - CITY RECORDS ONLY



CANNONBALL PATH PHASE 6 - MAINTENANCE MAP

CANNONBALL PATH: PHASE 6

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MADISON, WI

7431

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MN-1

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