

REVISION #1 09/16/2024
REVISED SHEETS: EC1-EC3, U1-U3, U6, U7
REVISION #2 02/28/2025
REVISED SHEETS: EC1, PD4, P4, U4, S1, S2, S3, S6 - new sheet, X8, X9
REVISION #3 04/25/2025
REVISED SHEETS: PD3, P3, X5, X6
REVISION #4 04/28/2025
EVISED SHEETS: G11, G12, G14 - new sheet, PD3, P3, P4, P6, U3, U6, X4, X5

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

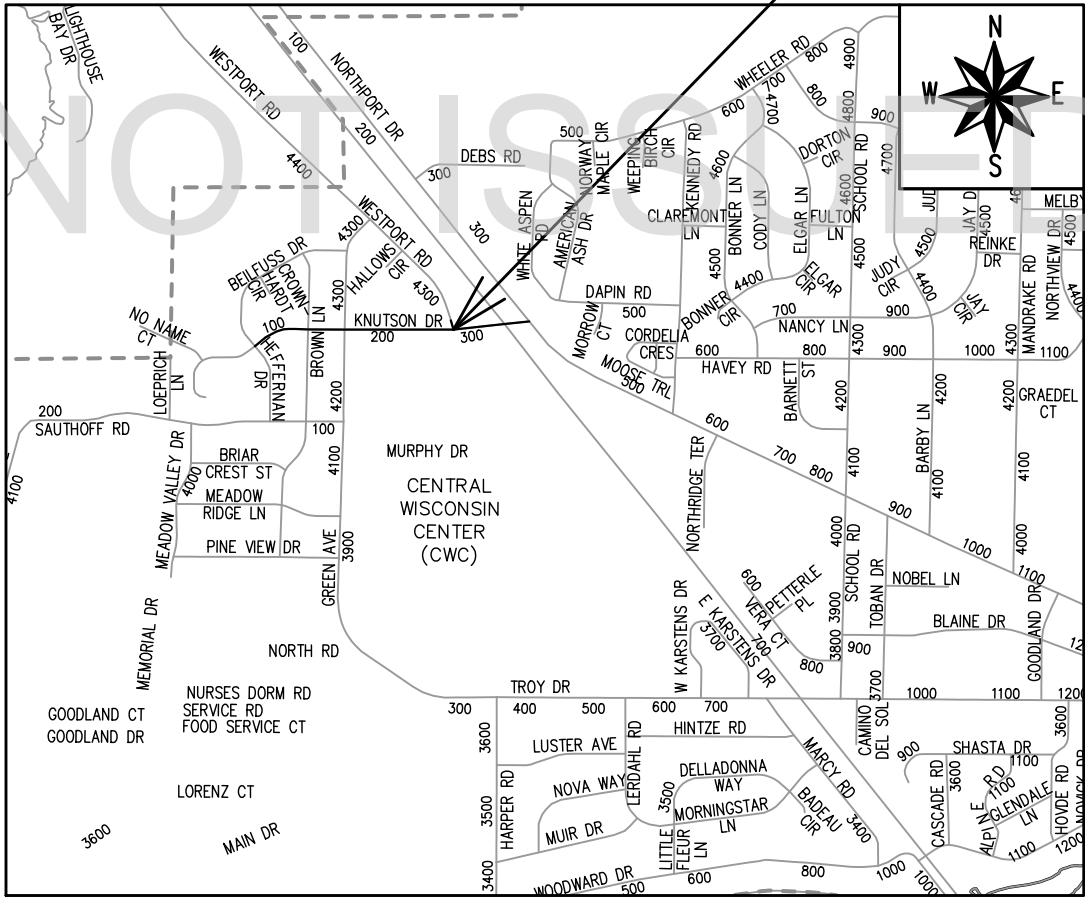
INDEX OF SHEETS

SHEET NO.	D1	TYPICAL SECTIONS
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SHEET NO.	D3	TERRACE EXCAVATION FOR TREE PLANTING
SHEET NO.	D4	SIGN DETAIL
SHEET NO.	EC1-EC4	EROSION CONTROL PLANS
SHEET NO.	G11-G14	GREEN INFRASTRUCTURE
SHEET NO.	PD1-PD5	STREET PLAN DETAILS
SHEET NO.	P1-P7	STREET PLAN & PROFILES
SHEET NO.	U1-U4	UTILITY PLAN & PROFILES
SHEET NO.	U5	SANITARY SCHEDULE
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SHEET NO.	PM1-PM4	PAVEMENT MARKING PLANS
SHEET NO.	S1-S6	STRUCTURE PLANS
SHEET NO.	X1-X15	CROSS SECTIONS
SHEET NO.	MN1	MAINTENANCE PLAN (CITY USE ONLY)

KNUTSON DRIVE AND GREEN AVENUE ASSESSMENT DISTRICT - 2024

CITY PROJECT NO. 13812
CONTRACT NO. 8635

PROJECT LOCATION



CONVENTIONAL SIGNS FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SN —
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%.

EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY) = 4,600 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT = 300 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT = 4,900 C.Y.

PUBLIC IMPROVEMENT PROJECT
APPROVED

MARCH 5, 2023

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

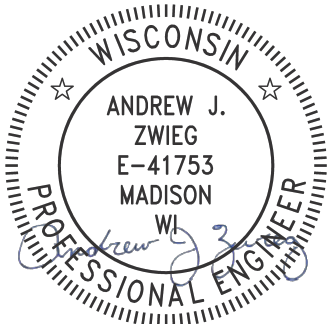
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Chris Potykowski May 31, 2024

City Engineer

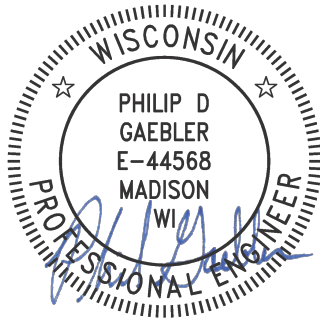
Date

STREET
DESIGNED BY:



May 31, 2024

GREEN INFRASTRUCTURE
DESIGNED BY:



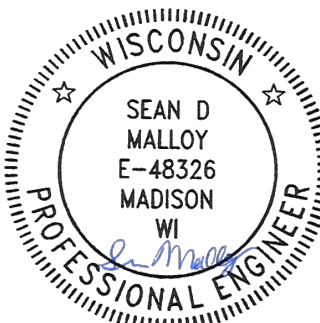
May 31, 2024

SANITARY SEWER
DESIGNED BY:



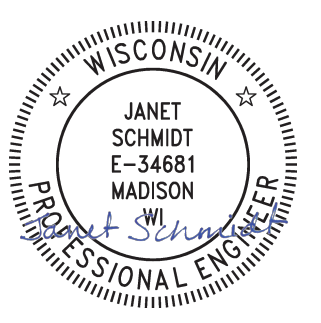
May 31, 2024

PAVEMENT MARKING
DESIGNED BY:



May 31, 2024

STORM SEWER
DESIGNED BY:

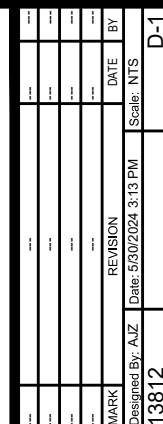


May 31, 2024

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DATE: 5/30/2024 3:12 PM

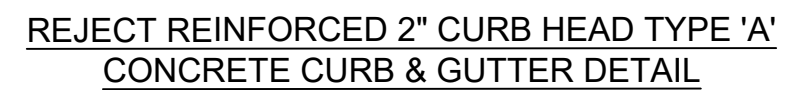


① POINT REFERRED TO ON PROFILE
② 2.00" HMA PAVEMENT, TYPE 4 LT 58-28 S (UPPER LAYER)



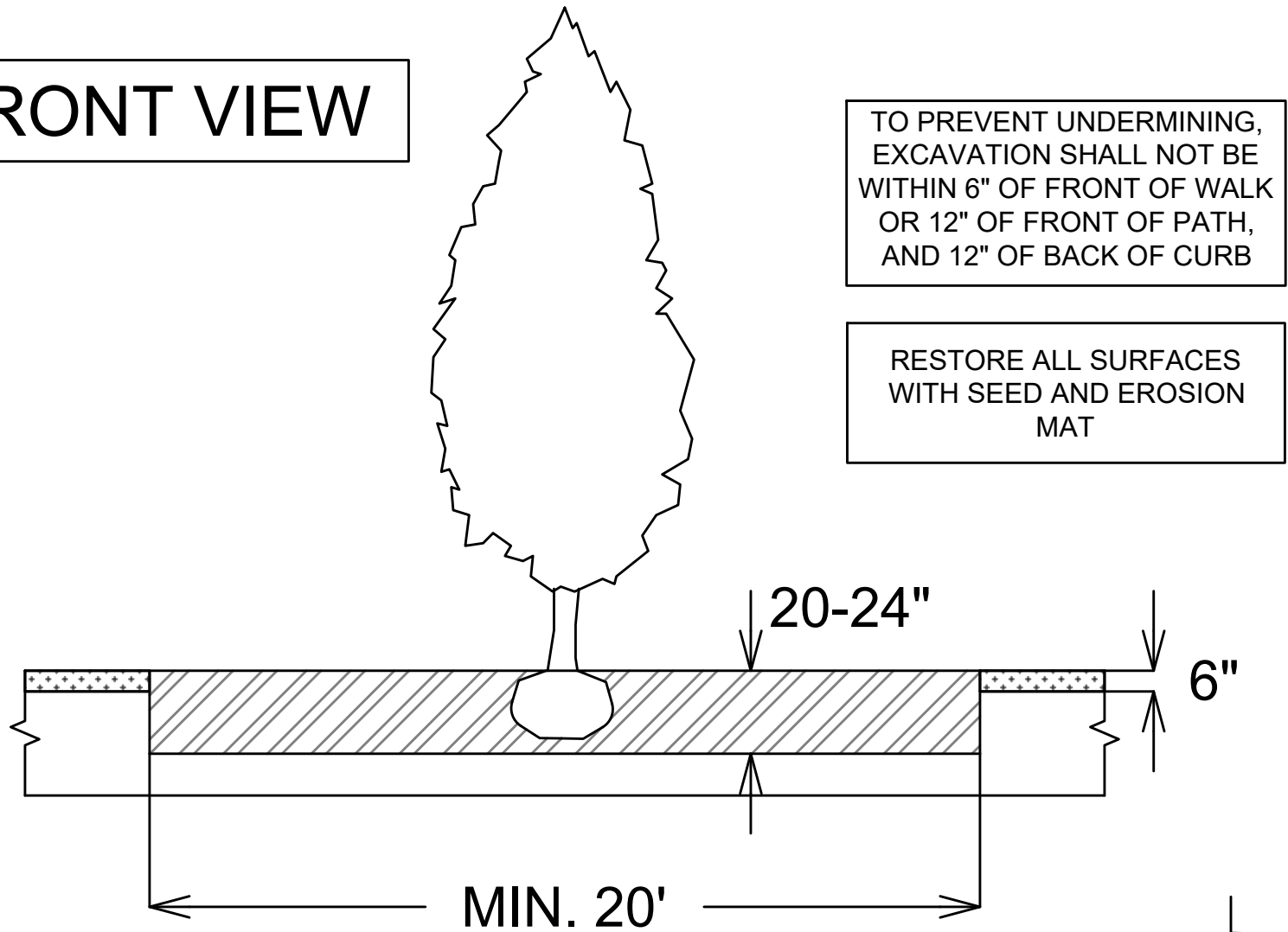
- ① POINT REFERRED TO ON PROFILE
- ② 2.00" HMA PAVEMENT, TYPE 4 MT 58-28 S (UPPER LAYER)
- ③ 3.50" HMA PAVEMENT, TYPE 3 MT 58-28 S (LOWER LAYER)
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A' OR TYPE 'X' WITH CURB HEAD OR TYPE 'X' DRIVEWAY OR TYPE 'X' PEDESTRIAN
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK

- TYPICAL SECTION NOT TO SCALE
- SEE X-SHEETS FOR CROSS SLOPES, EDGE OF PAVEMENT ELEVATIONS, & TOP OF CURB ELEVATIONS
- *BRIDGE APPROACH SLAB TO BE REPLACED STA 122+09.81 TO 122+34.64 & STA 123+28.46 TO STA 123+53.29
- *BRIDGE DECK TO REMAIN STA 122+34.64 TO STA 123+28.46
- *STA 123+53.29 TO STA 124+42.12 STREET, TERRACE, & SIDEWALK WIDTHS VARY. SEE PLAN & PROFILE SHEETS



TERRACE EXCAVATION FOR TREE PLANTING:
THIS INCLUDES ALL WORK NECESSARY TO EXCAVATE AREAS WITHIN GRASS TERRACES TO AN APPROPRIATE DEPTH SUITABLE FOR NEW TREE PLANTINGS. ALL WORK SHALL BE IN ACCORDANCE WITH ARTICLE 201 OF THE STANDARD SPECIFICATIONS. THE PROPOSED LOCATIONS FOR TREE PLANTINGS ARE IDENTIFIED ON THE LANDSCAPING PLAN INCLUDED WITHIN THIS PLAN SET. PRIOR TO THE CONTRACTOR STARTING THE EXCAVATION WORK, THE ENGINEER AND FORESTRY REPRESENTATIVE SHALL REVIEW THE PLAN LOCATIONS ON-SITE AND CONFIRM THAT NO CONFLICTS ARE ANTICIPATED. ONCE THE LOCATIONS MARKED, THE CONTRACTOR SHALL EXCAVATE THE TERRACE AREA TO A SUITABLE DEPTH FOR NEW TREE PLANTINGS, APPROXIMATELY TWENTY (20) INCHES TO TWENTY-FOUR (24) INCHES. THE TERRACE SHALL BE EXCAVATED TO A MINIMUM LENGTH OF TWENTY (20) FEET, BUT THAT MAY BE REDUCED BY THE CONSTRUCTION ENGINEER TO FIT SITE CONSTRAINTS AS NECESSARY. THE WIDTH OF THE TERRACE SHALL ALSO BE EXCAVATED TO AS CLOSE TO THE SIDEWALK/PATH AND CURB AS IS REASONABLE. WHILE PERFORMING THE EXCAVATION, THE CONTRACTOR SHALL TAKE CARE TO NOT UNDERMINE OR DAMAGE THE ADJACENT CURB OR SIDEWALK. IF DAMAGED DURING THE EXCAVATION PROCESS, THE DEVELOPER SHALL REPLACE CURB OR SIDEWALK/PATH AT THEIR COST. ONCE THE AREA IS EXCAVATED, THE CONTRACTOR SHALL BACKFILL THE EXCAVATED AREA WITH REGULAR TOPSOIL, AND THE SURFACE SHALL BE RESTORED WITH SEED AND EROSION MAT.

FRONT VIEW

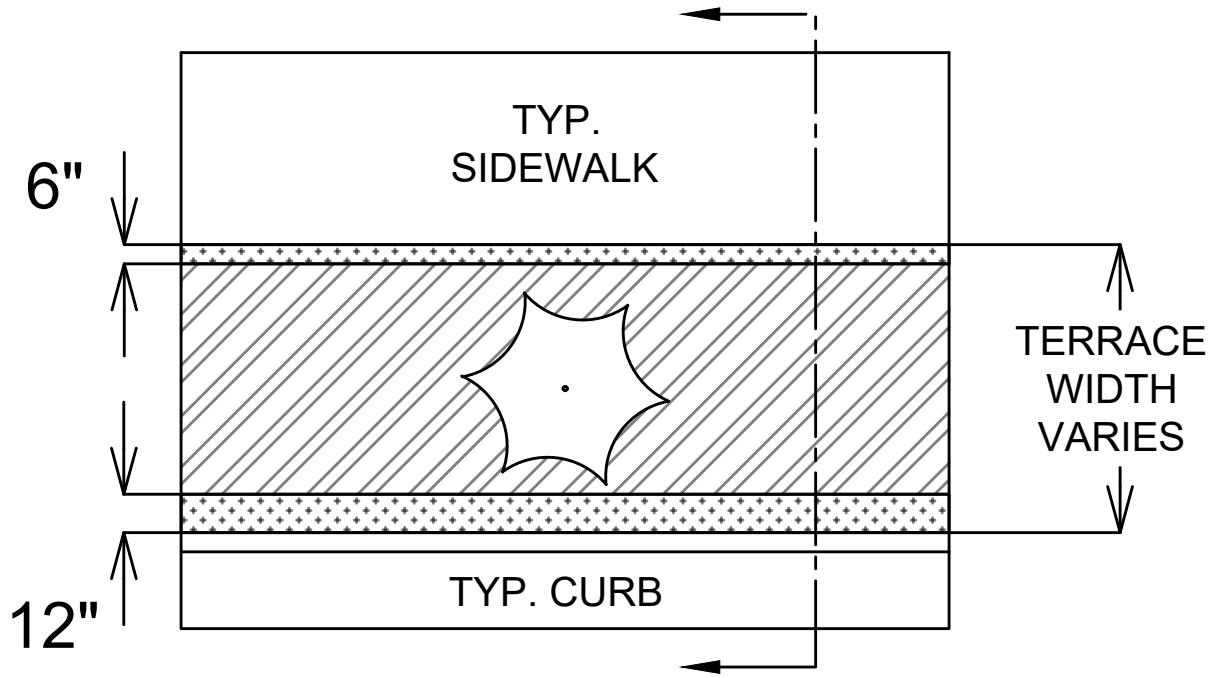


SPECIAL NOTES:

REFER TO S.D.D. 2.01 FOR STANDARD PLANTING TECHNIQUE FOR TREES IN TURF AREAS.

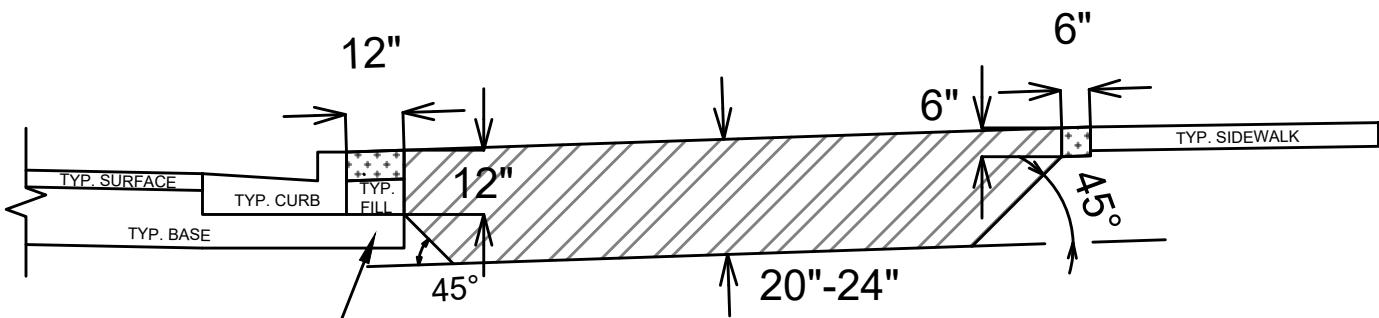
12" BASE EXTENSION BEHIND CURB

TOP VIEW



LEGEND

- AREA TO BE EXCAVATED 20-24" DEEP AND BACKFILLED WITH TOPSOIL
- AREA TO BE 6" TOPSOIL

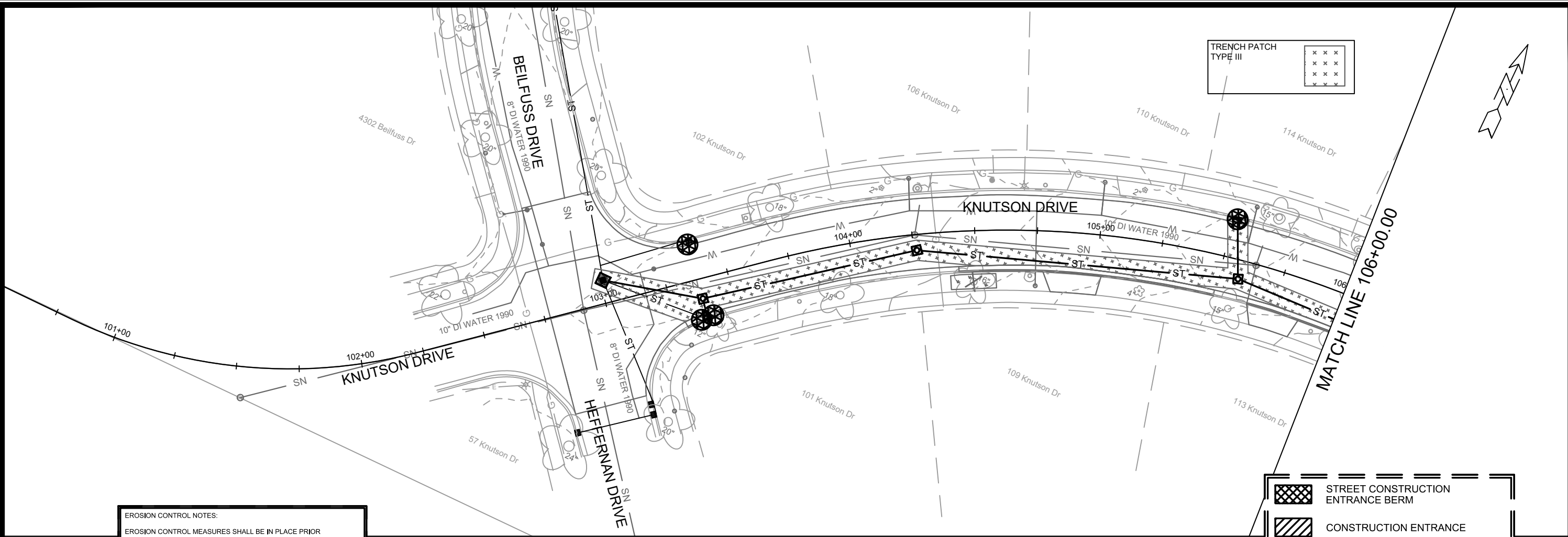


SECTION VIEW



- 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





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.

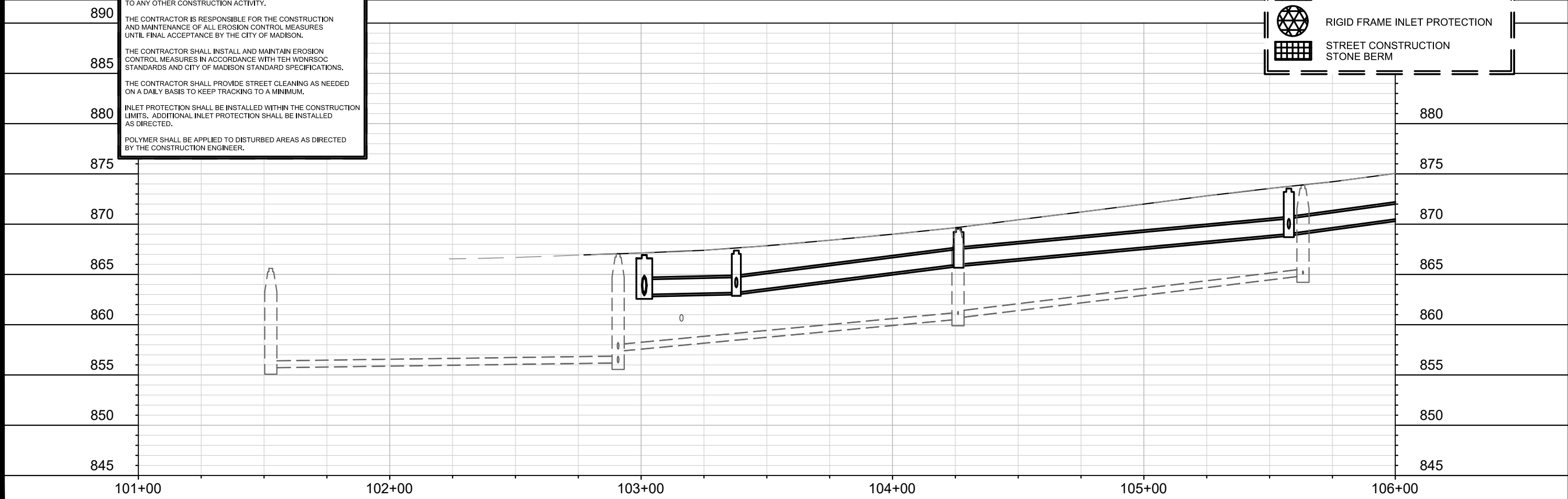
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH TEH WDNRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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

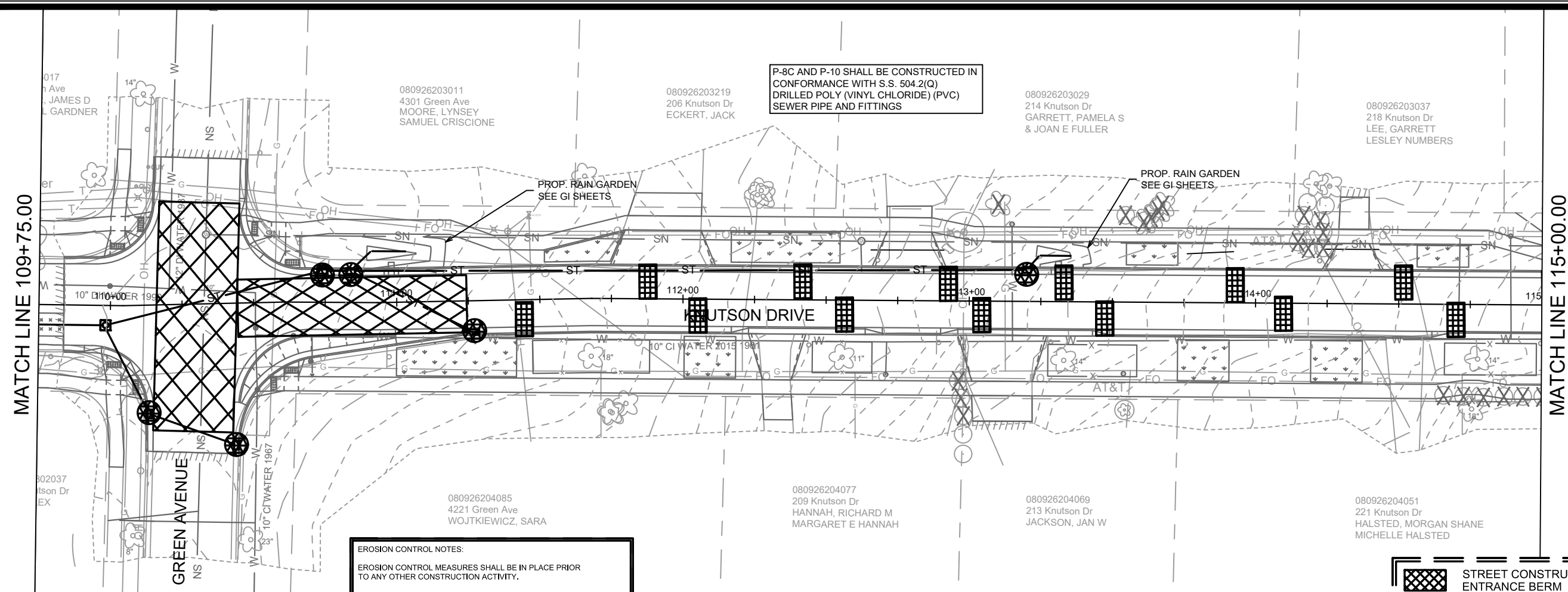
INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM



13812		13812		13812	
MADISON, WI		MADISON, WI		MADISON, WI	
KNUTSON DRIVE RESURFACING/RECONSTRUCTION		KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE		KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE	
CONTRACT NO: 8635		CONTRACT NO: 8635		CONTRACT NO: 8635	
EC-1		EC-1		EC-1	
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13812		13812		13812	
EC-1		EC-1		EC-1	
UJO REVISION		UJO REVISION		UJO REVISION	
DATE		DATE		DATE	
9/16/2024		9/16/2024		9/16/2024	
BY		BY		BY	
TAC		TAC		TAC	
Date: 9/16/2024 8:22 AM		Date: 9/16/2024 8:22 AM		Date: 9/16/2024 8:22 AM	
Scale: 1" = 40'		Scale: 1" = 40'		Scale: 1" = 40'	
13812		13812		13812	
EC-1		EC-1		EC-1	



EROSION CONTROL NOTES:

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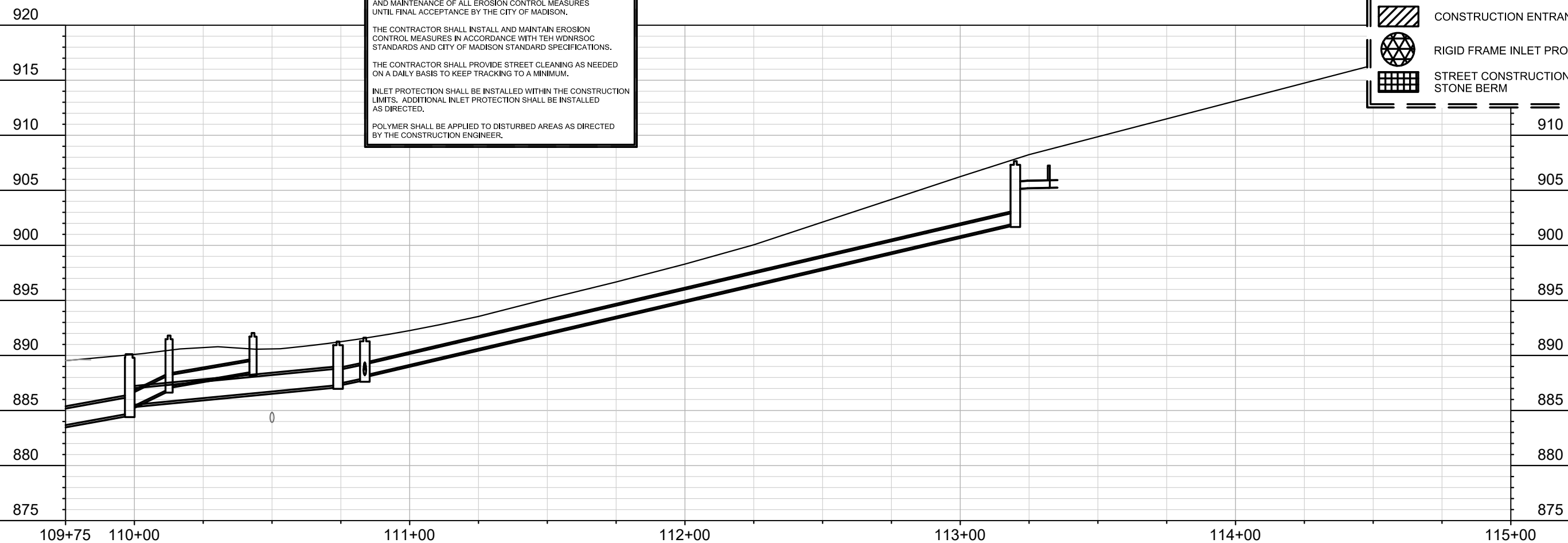
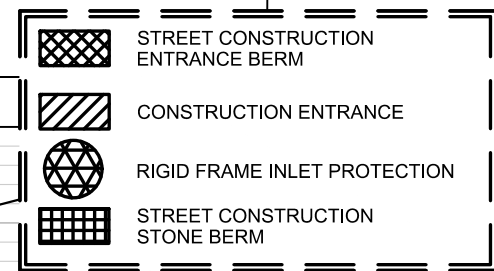
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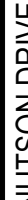
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

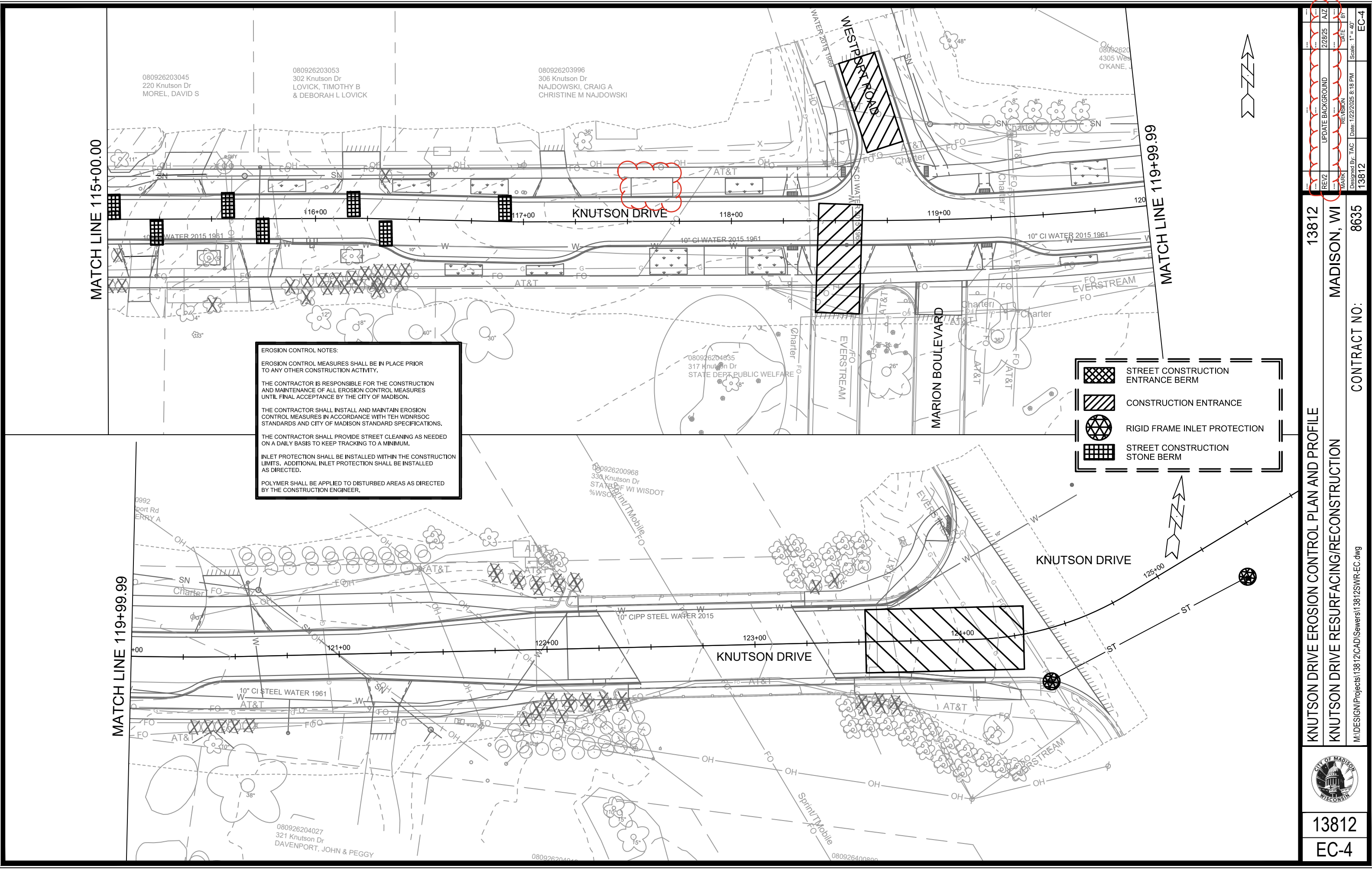
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	13812	13812	KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE
	EC-3		KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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		Date: 9/19/2024 8:22 AM Scale: 1" = 40'	DATE BY EC-3



EROSION CONTROL NOTES:

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- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- RIGID FRAME INLET PROTECTION
- STREET CONSTRUCTION STONE BERM

13812

MADISON, WI

CONTRACT NO: 8635

KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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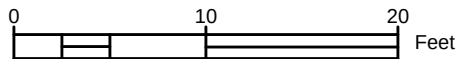
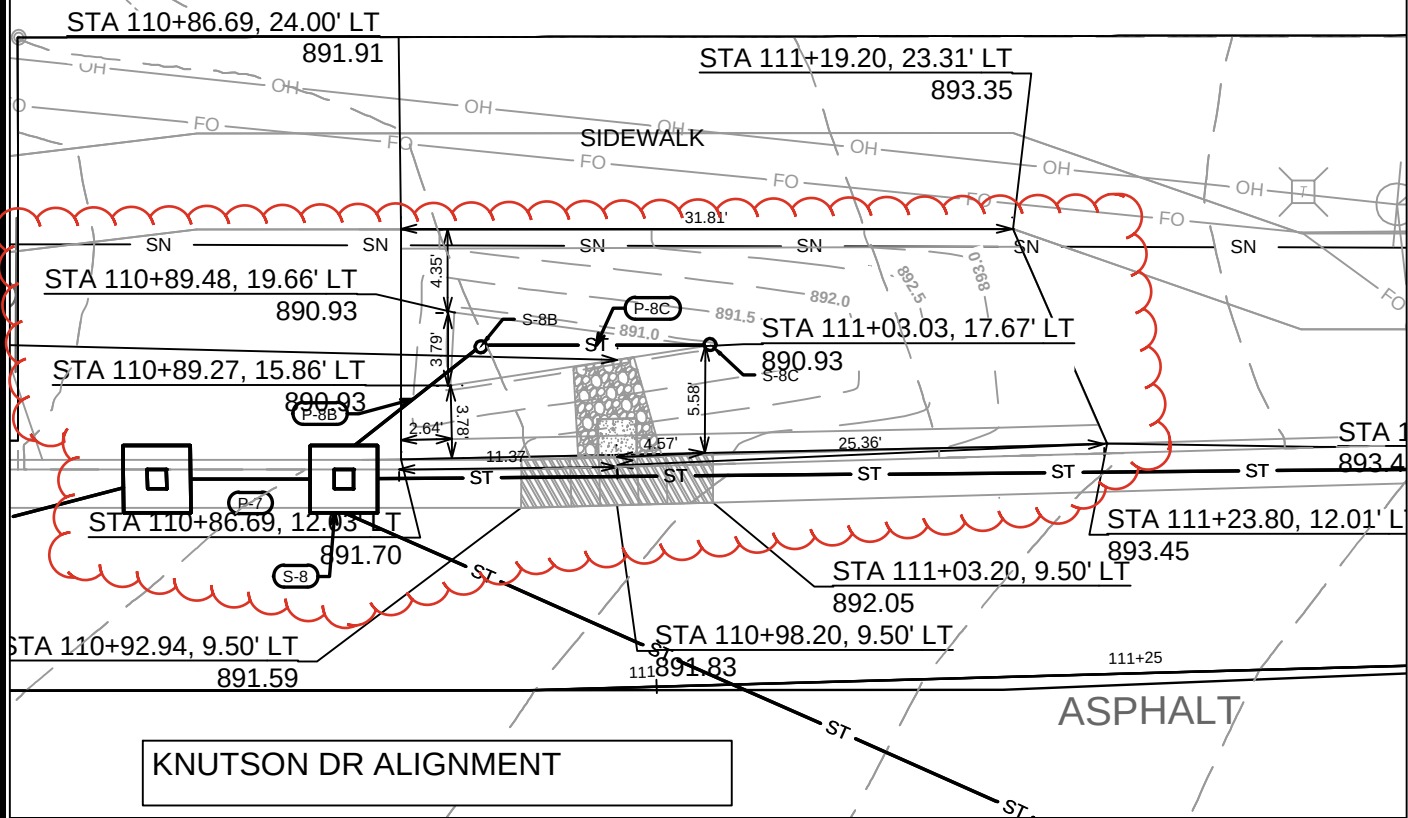
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EC-4

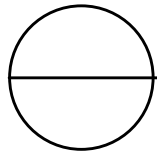
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REV 4: UPDATED CURB AND
FLUME ELEVATIONS

080926203011
4301 Green Ave
MOORE, LYNSEY
SAMUEL CRISCIONE



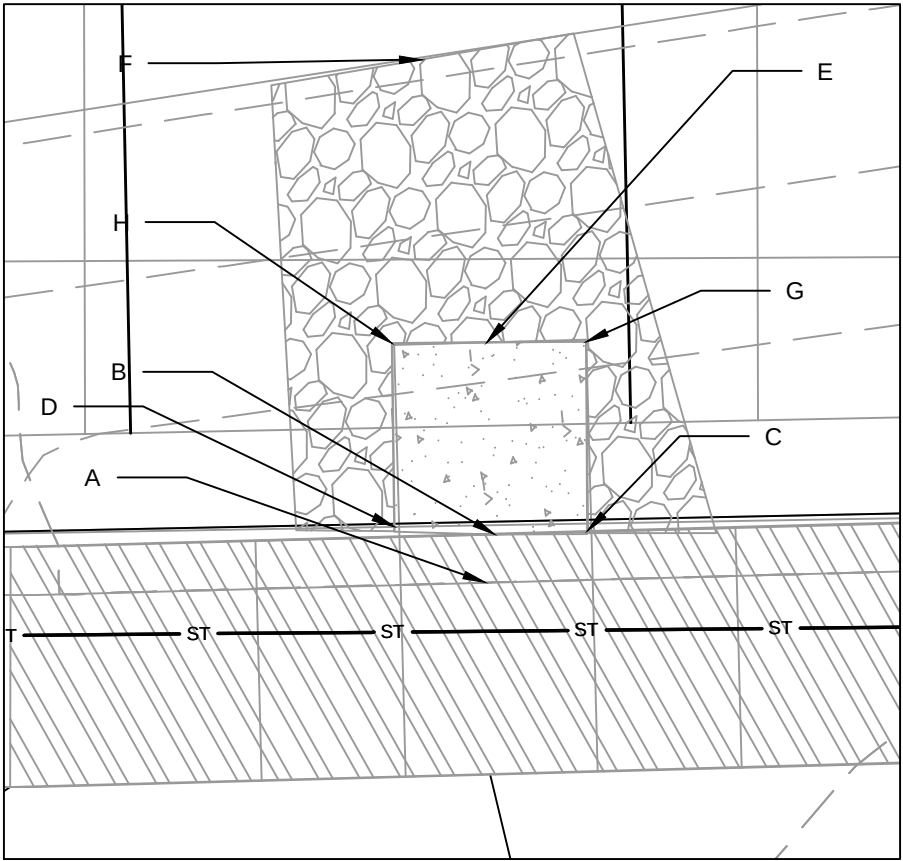
- NOTES:
- ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS, SEE SPECIAL PROVISIONS
 - ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 - SEE DETAIL D-1 AND D-2.



CURB CUT/FLUME TYP. DETAIL



DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Pond depth (inches)	Elevation
	Ex. EOG at CL of Flume	+0.125	891.83
A	Ex. Flow Line at CL of Flume	0	891.71
B	Pro. Gutter Flow Line at CL of Flume	-0.17	891.54
C	Edge of Flume @ Gutter (Uphill)	varies	891.88
D	Edge of Flume @ Gutter (Downhill)	varies	891.66
E	Bottom of Flume at CL	varies	891.37
F	Bottom of Stone/Pond	varies	890.93
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	891.80
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	891.57



REV 4 | G1 GRADE ADJUSTMENT AND ADD 209 RG 04/28/25

13812

MARK

REVISION

DATE

BY

13812

13812

GI-1

4301 GREEN AVENUE BIORETENTION

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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13812

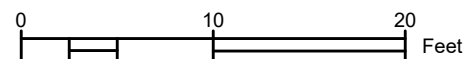
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MADISON, WI

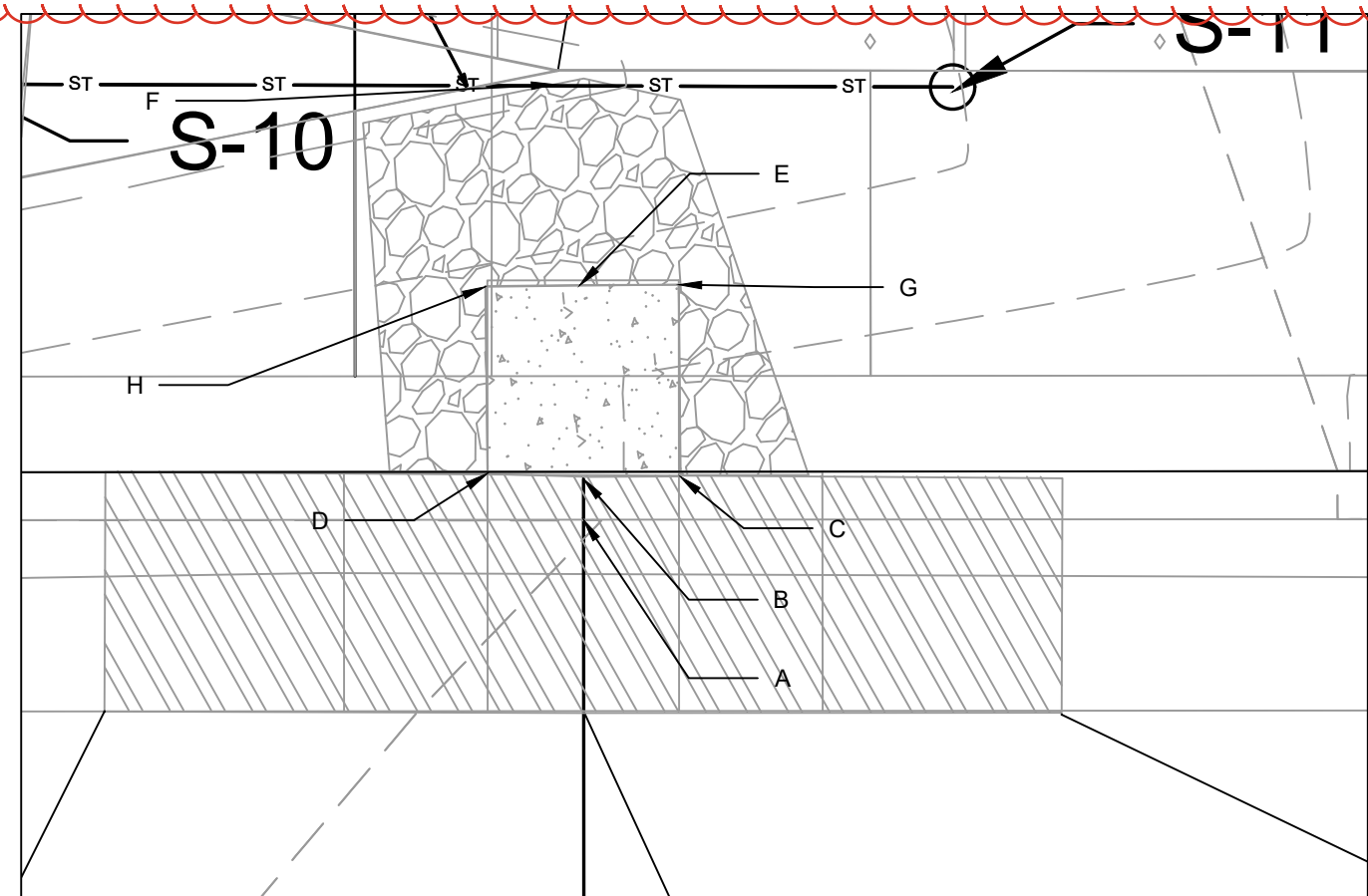
8635

CONTRACT NO:

REVISION 4: ELEVATION CHANGES TO CURB AND FLUME, ADJUSTMENTS TO CURB SIDE BIORETENTION GRADES

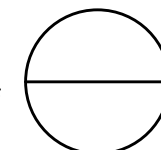


		Pond depth (inches)	7
Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	908.11
A	Ex. Flow Line at CL of Flume	0	907.99
B	Pro. Gutter Flow Line at CL of Flume	-0.17	907.82
C	Edge of Flume @ Gutter (Uphill)	varies	908.25
D	Edge of Flume @ Gutter (Downhill)	varies	907.92
E	Bottom of Flume at CL	varies	907.65
F	Bottom of Stone/Pond	varies	907.40
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	908.17
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	907.84



NOTES:

1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS, SEE SPECIAL PROVISIONS
2. ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
3. SEE DETAIL D-1 AND D-2.



13812

MADISON, WI

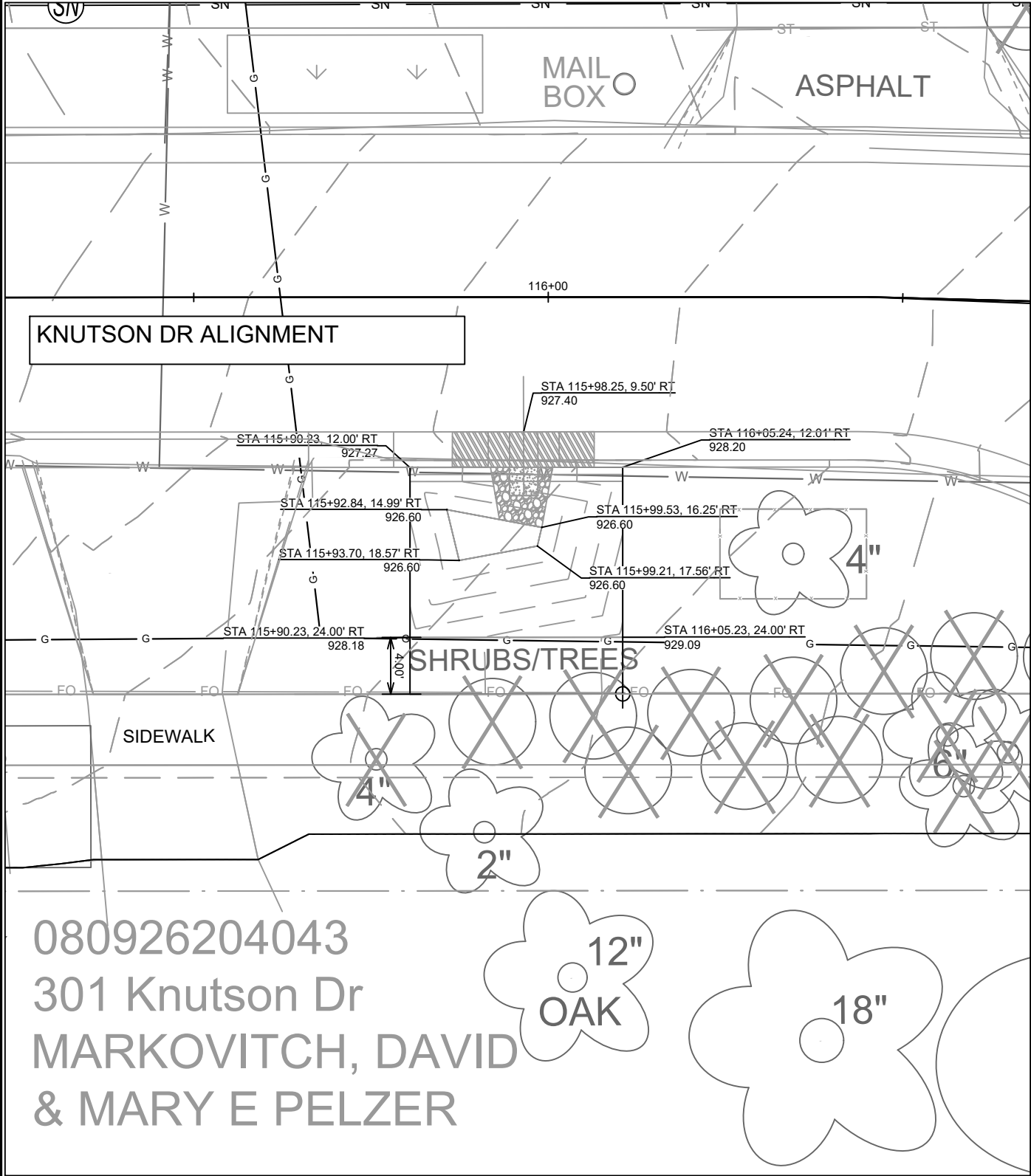
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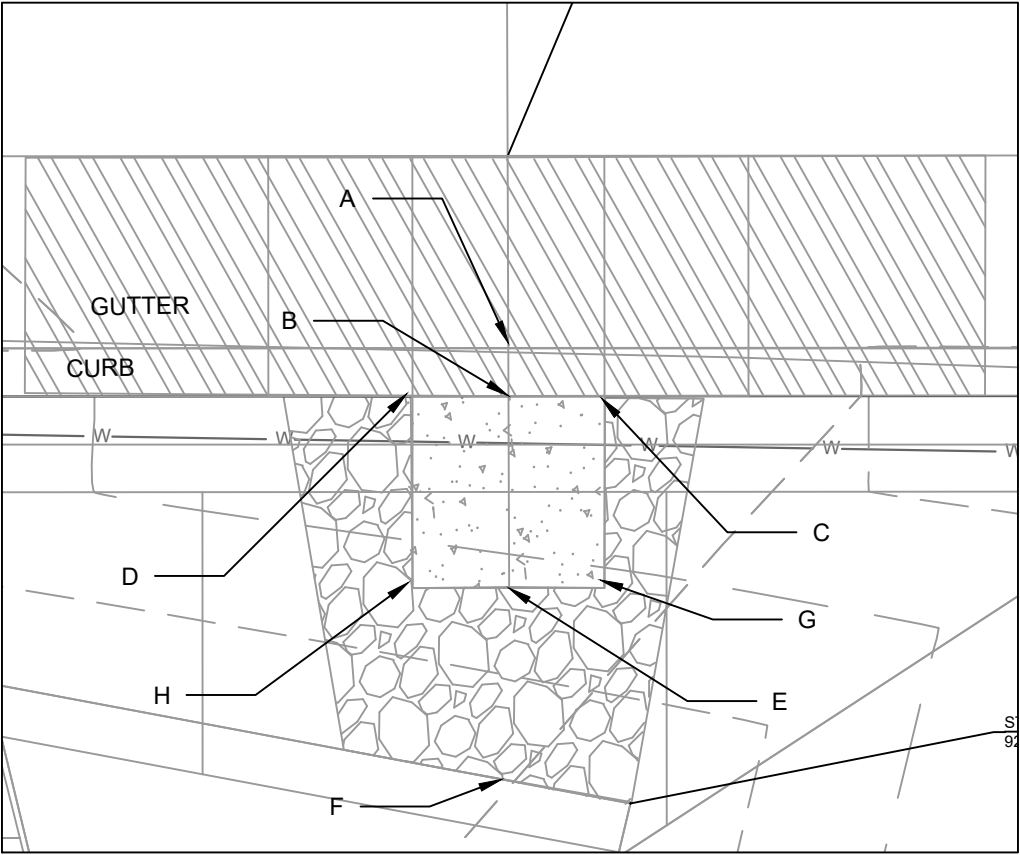
214 KNUSTON DRIVE BIORETENTION
KNUSTON DRIVE RESURFACING/RECONSTRUCTION

13812

GI-2

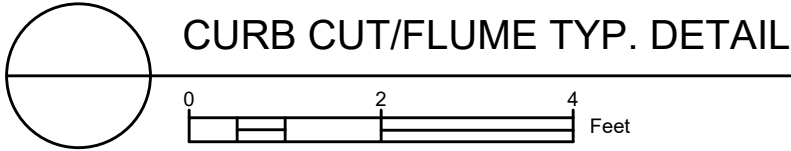


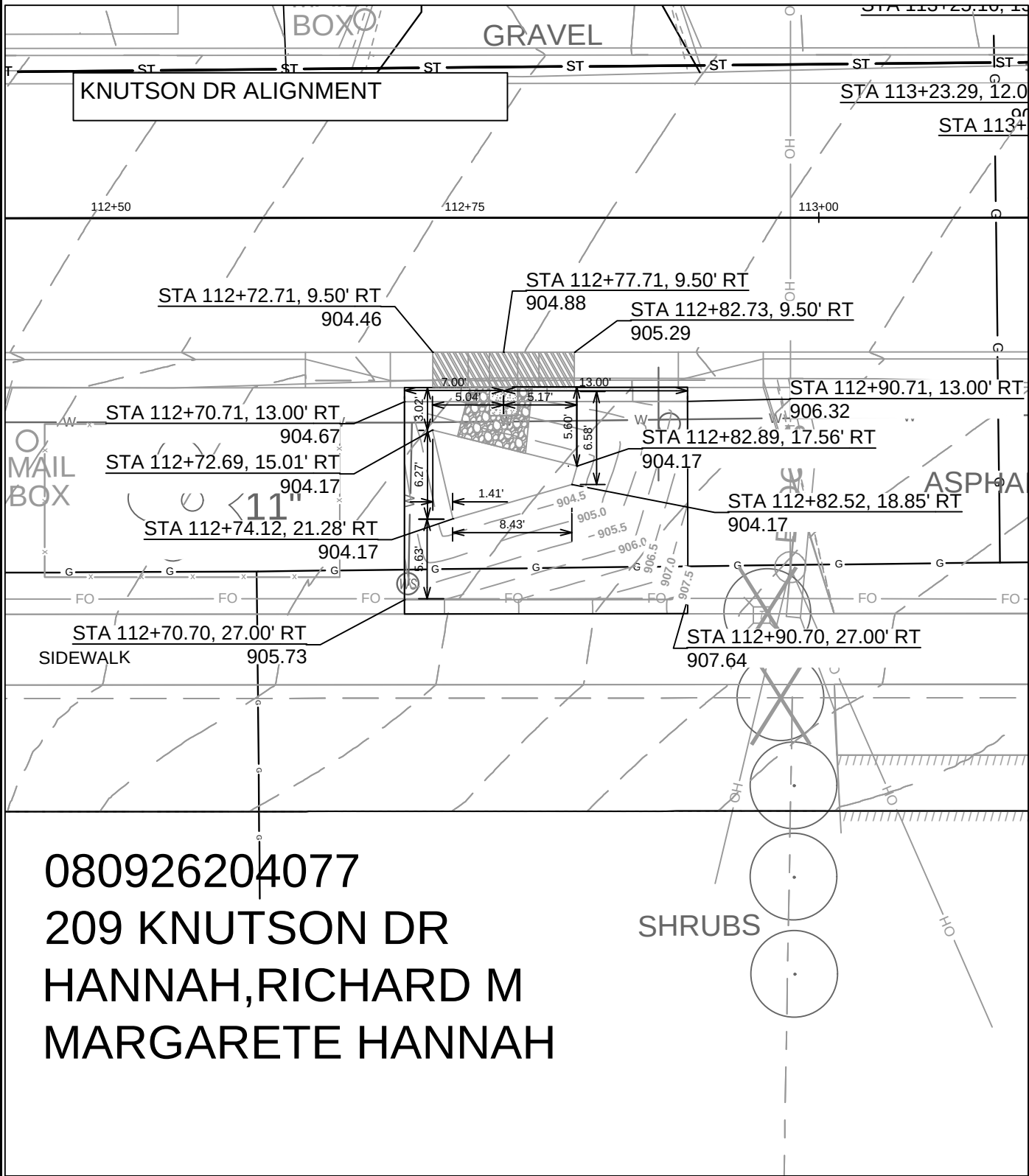
DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Pond depth (inches)	Elevation
	Ex. EOG at CL of Flume	+0.125	927.40
A	Ex. Flow Line at CL of Flume	0	927.28
B	Pro. Gutter Flow Line at CL of Flume	-0.17	927.11
C	Edge of Flume @ Gutter (Uphill)	varies	927.43
D	Edge of Flume @ Gutter (Downhill)	varies	927.12
E	Bottom of Flume at CL	varies	926.94
F	Bottom of Stone/Pond	varies	926.60
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	927.34
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	927.03



NOTES:

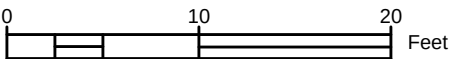
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- SEE DETAIL D-1 AND D-2.





080926204077
209 KNUTSON DR
HANNAH, RICHARD M
MARGARETE HANNAH

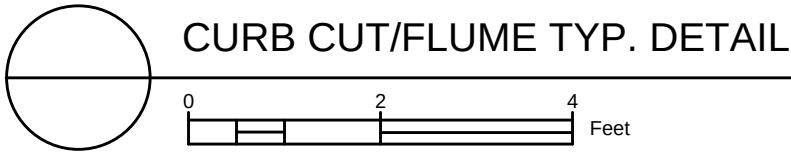
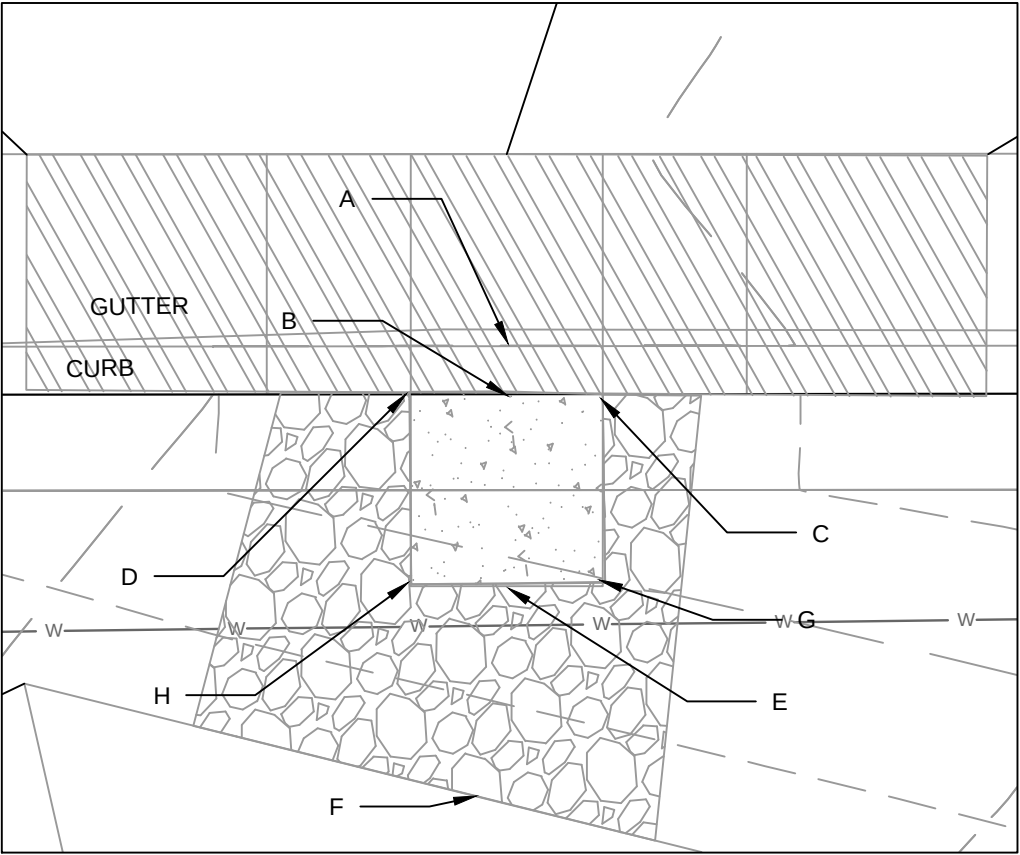
REVISION 4: NEW SHEET FOR RAIN GARDEN AT 209 KNUTSON

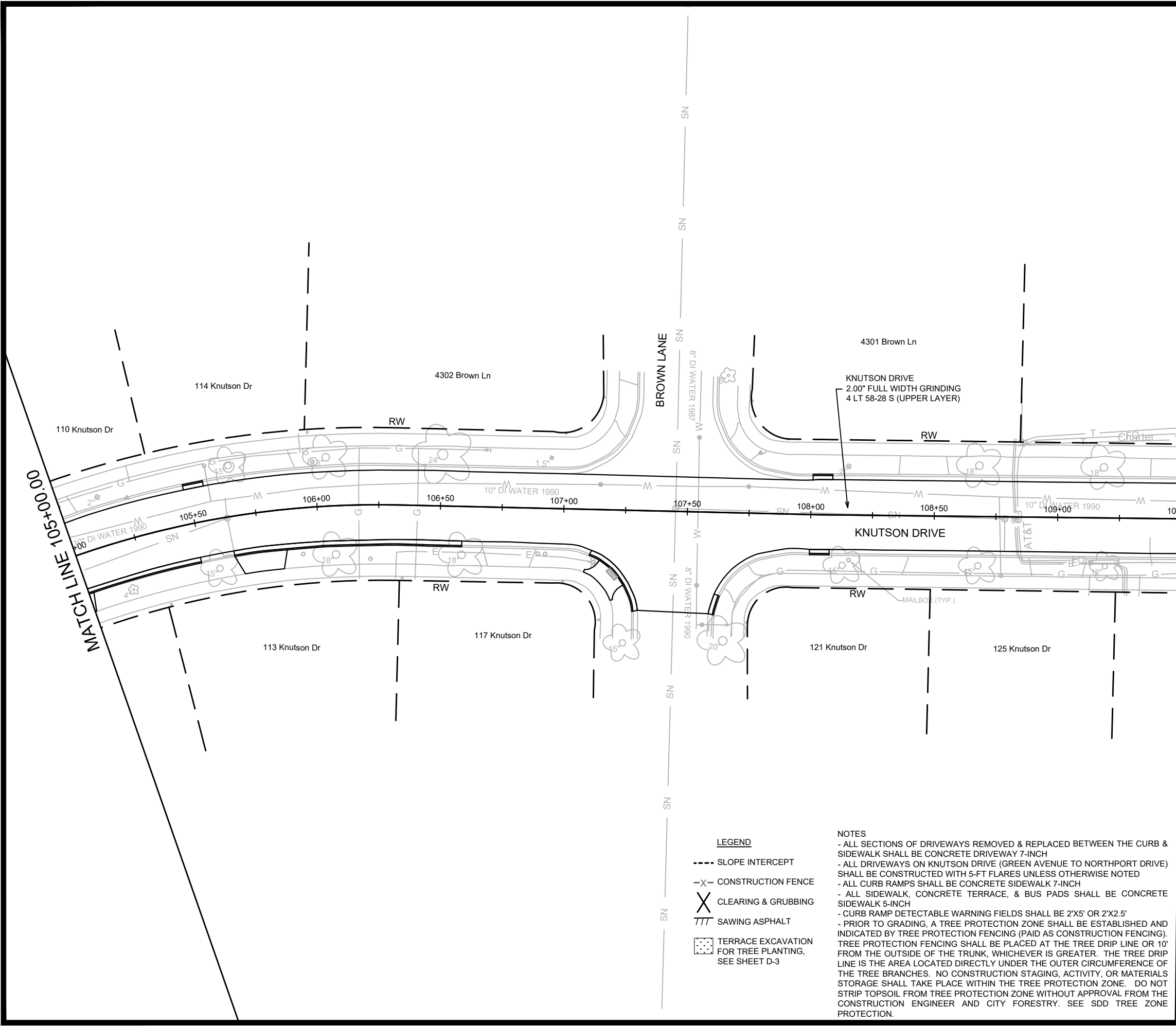


- NOTES:
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 2. ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN OR THE 1 FOOT RECOVERY ZONE.
 3. SEE DETAIL D-1 AND D-2.

DETAIL POINT ELEVATIONS/DESCRIPTIONS

Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	904.88
A	Ex. Flow Line at CL of Flume	0	904.76
B	Pro. Gutter Flow Line at CL of Flume	-0.17	904.59
C	Edge of Flume @ Gutter (Uphill)	varies	905.08
D	Edge of Flume @ Gutter (Downhill)	varies	904.67
E	Bottom of Flume at CL	varies	904.42
F	Bottom of Stone/Pond	varies	904.17
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	905.00
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	904.59

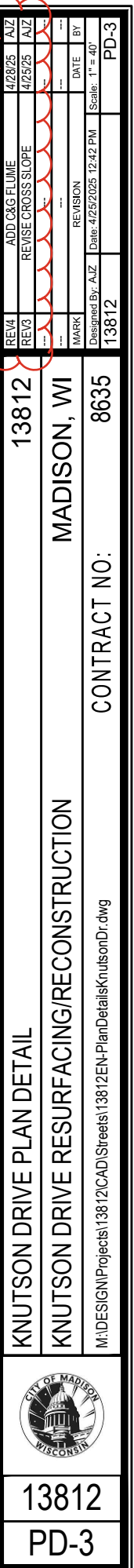


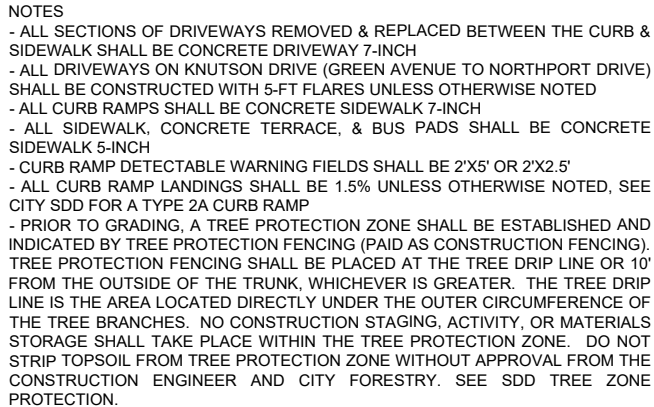


MATCH LINE 109+50.00



KNUTSON DRIVE PLAN DETAIL		13812		
KNUTSON DRIVE RESURFACING/RECONSTRUCTION		MADISON, WI		
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13812				
PD-2				
		MARK	REVISION	DATE
		13812		
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		13812		PD-2

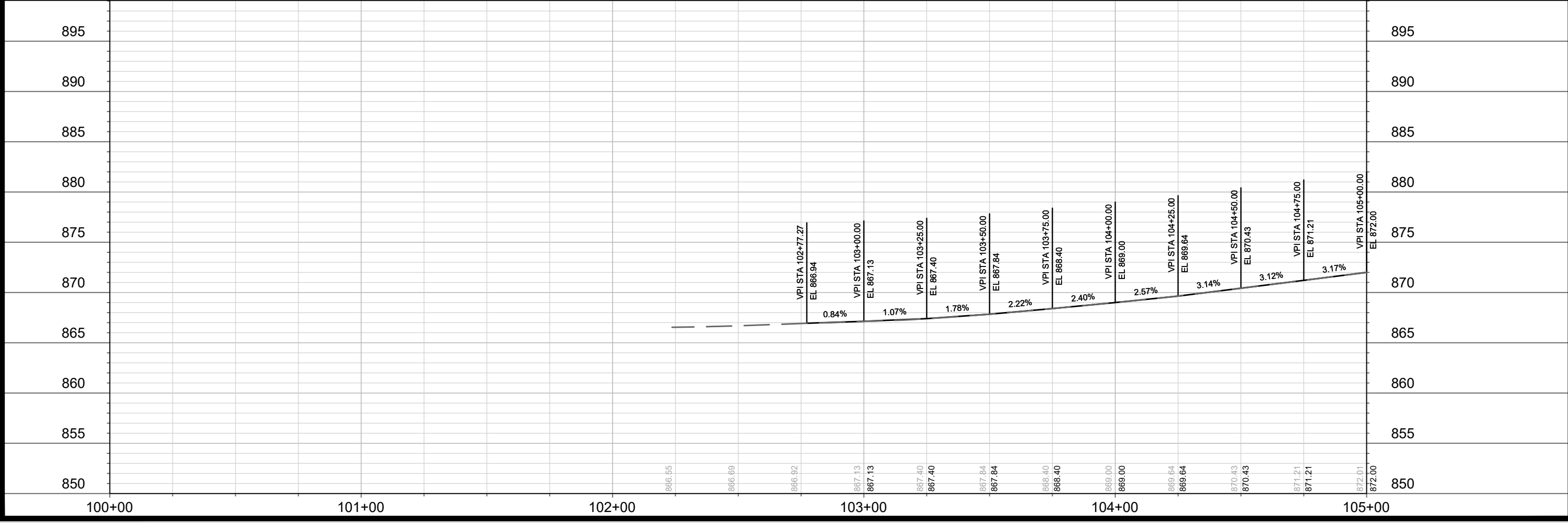
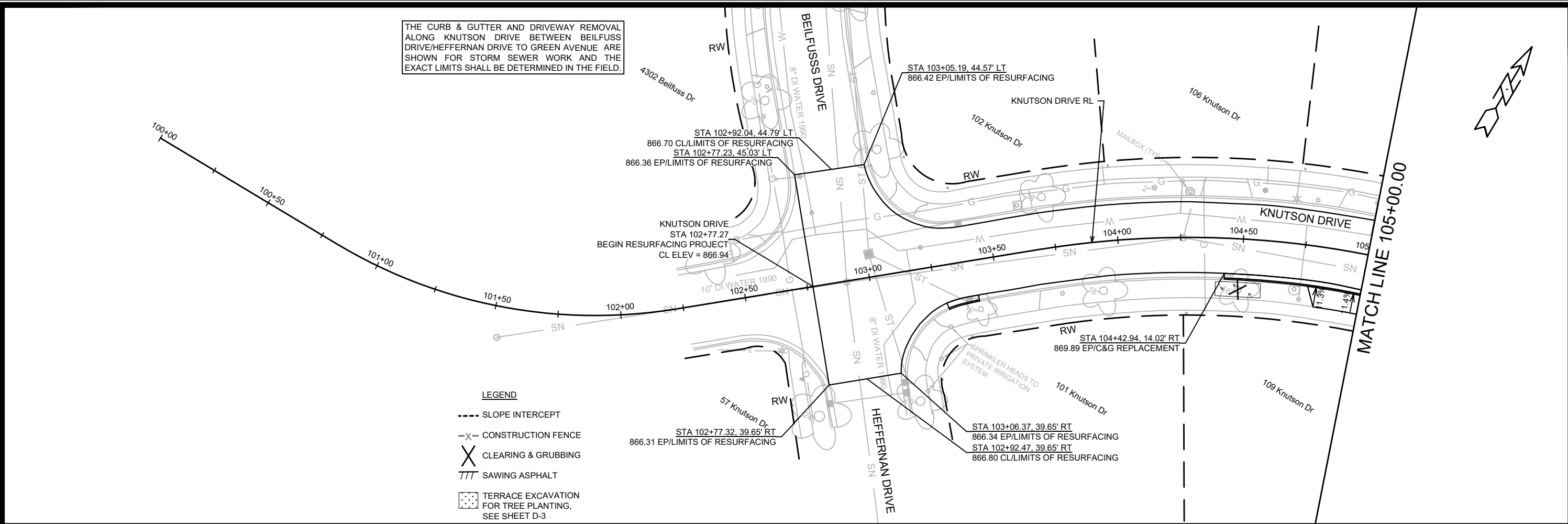


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KNUTSON DRIVE RESURFACING/RECONSTRUCTION	MADISON, WI
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CONTRACT NO:	8635

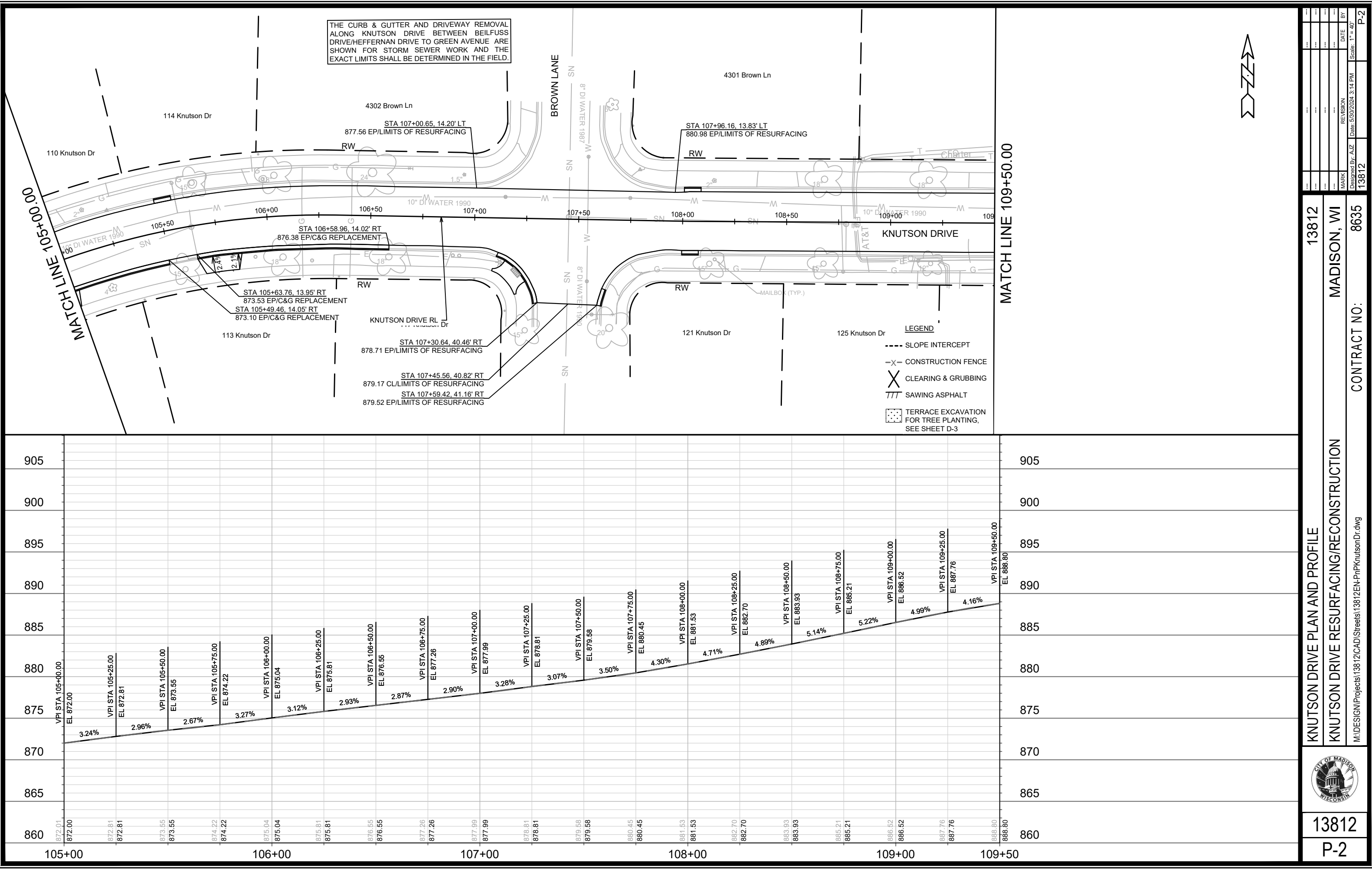


13812
PD-5



13812		MADISON, WI		8635	
KNUTSON DRIVE PLAN AND PROFILE		KNUTSON DRIVE RESURFACING/RECONSTRUCTION		CONTRACT NO:	
13812		P-1			
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CITY OF MADISON
WISCONSIN



13812

MADISON, WI

CONTRACT NO: 8635

KNUTSON DRIVE PLAN AND PROFILE

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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13812

REVISION

DATE

BY

13812

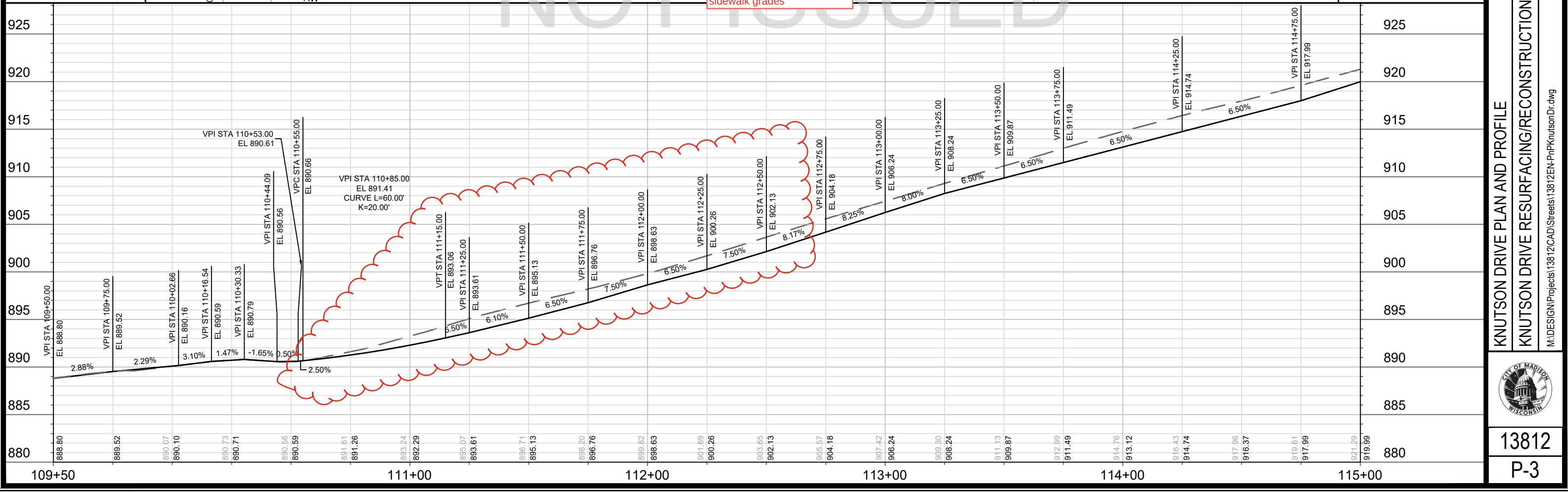
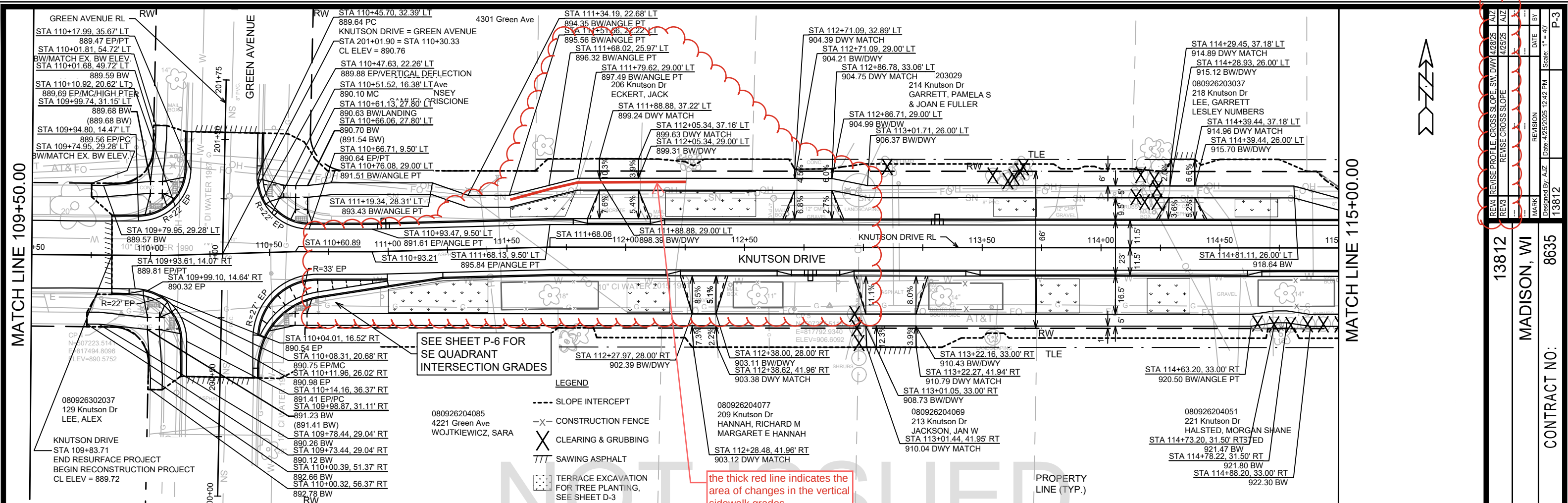
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P-2

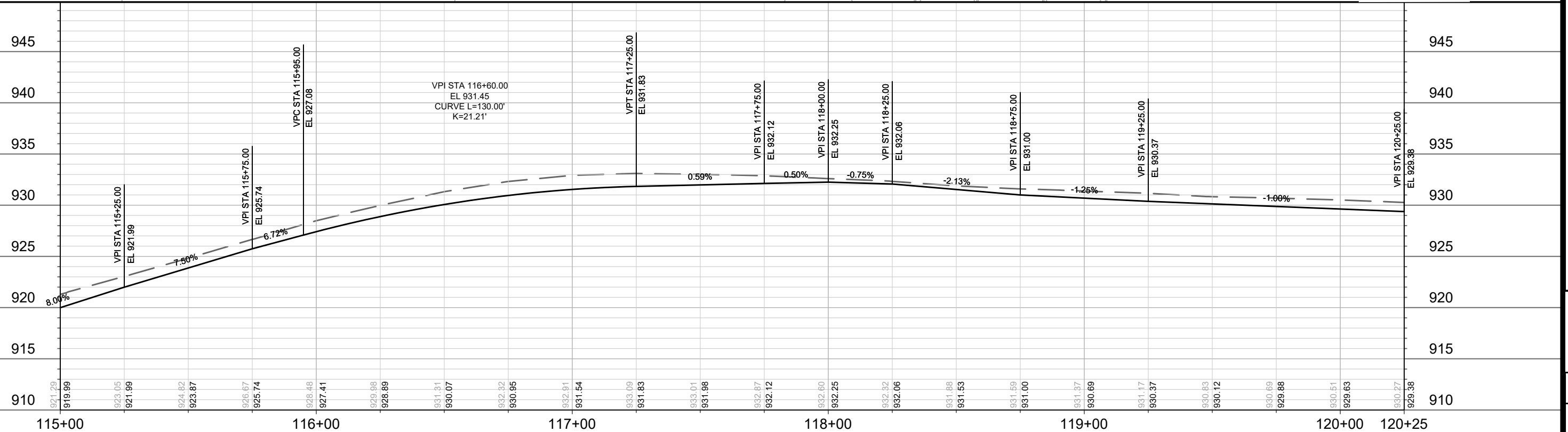
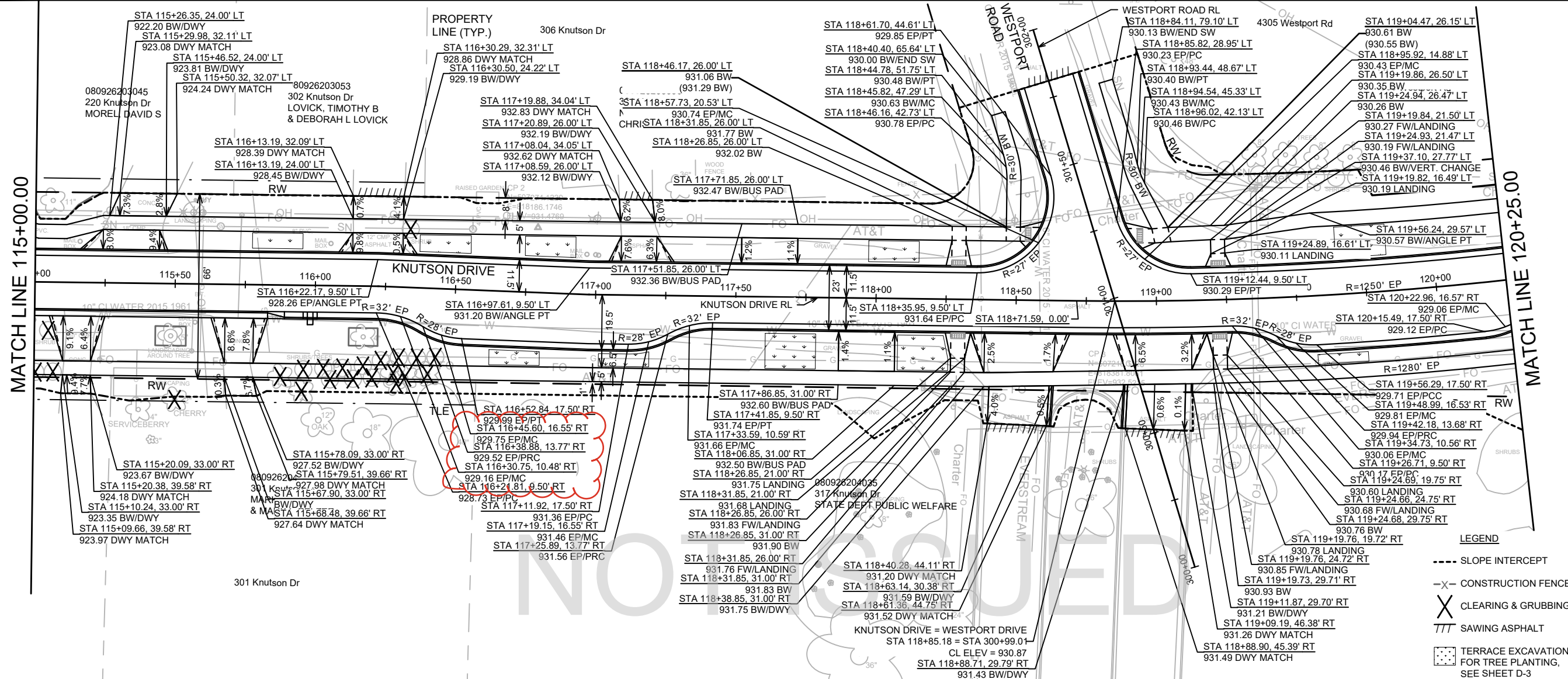


REV4	REVISE PROFILE CROSS SLOPE SW DWY	4/28/25	AJZ	DATE	BY
REV3	REVISE CROSS SLOPE	4/25/25	AJZ	REVISION	DATE
Designed By: AJZ					Scale: 1" = 40'
13812					P-3

13812
MADISON, WI
8635
CONTRACT NO.:
KNUTSON DRIVE PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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CITY OF MADISON
WISCONSIN

13812
P-3



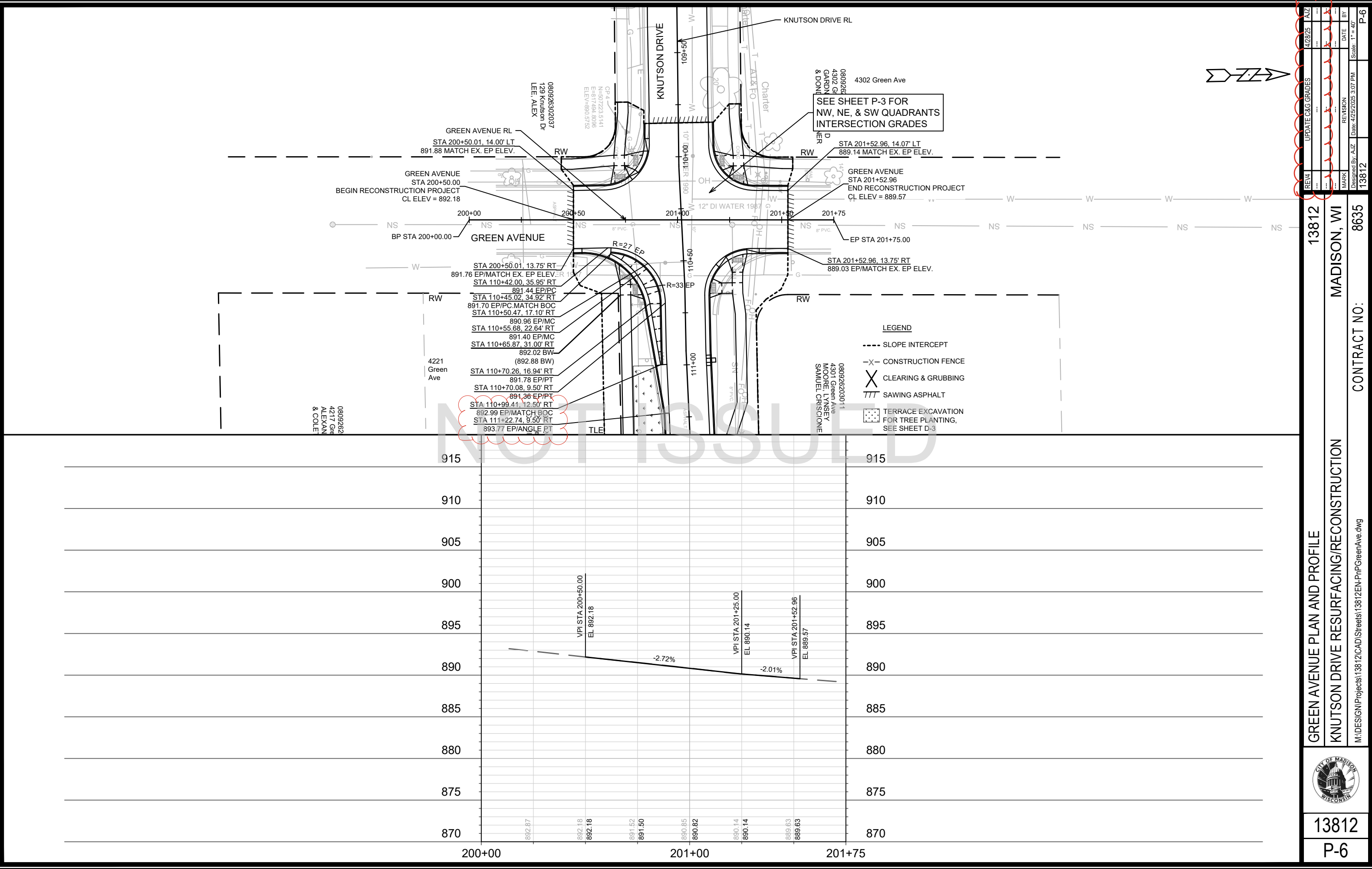
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REV2	UPDATE BUS PADS	DATE: 2/28/25	AJZ
MAJOR	REVISION	DATE: 4/1	AJZ
Designed By: AJZ		Date: 4/28/2025 3:07 PM	Scale: 1" = 40'
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13812
MADISON, WI
CONTRACT NO: 8635

KNUTSON DRIVE PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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3812
P-4



REV4	UPDATE C&G GRADES	4/28/25	AJZ
MARK	REVISION	DATE	BY
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P-6			

13812

MADISON, WI

CONTRACT NO: 8635

GREEN AVENUE PLAN AND PROFILE

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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SANITARY SEWER SCHEDULE

KNUTSON DRIVE RESURFACING/
RECONSTRUCTION
PROJECT NO. 13812

SHEET NO.
U-5

SANITARY SEWER SCHEDULE

CITY OF MADISON

SANITARY STRUCTURES ADJUSTMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	PROP. ELEV.	ADJUST DIFF.	NOTES
KNUTSON						
SAS 4822-002	110+33.91	LT-24.16	890.13	890.05	-0.08	-
SAS 4822-005	112+62.19	LT-20.63	903.30	903.18	-0.12	-
SAS 4822-006	115+66.00	LT-20.61	924.65	925.32	0.67	-
SAS 4822-007	116+55.07	LT-22.13	929.88	930.65	0.77	-
SAS 4822-010	118+96.63	LT-46.06	930.20	930.31	0.11	-
SAS 4822-009	120+61.90	LT-31.84	929.39	929.71	0.32	-

SPECIFIC NOTES

STORM SEWER SCHEDULE

* REV 1 TAC 9/16/2024
** REV 4 TAC 4/28/2025

KNUTSON DRIVE RESURFACING/ RECONSTRUCTION PROJECT NO. 13812	SHEET NO. U-6
	STORM SEWER SCHEDULE CITY OF MADISON

PROPOSED STORM STRUCTURES

PROPOSED STORM PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
KNUTSON DRIVE							
S-0	103+03.03	RT-9.05	TAP	-	863.00	-	-
S-1	103+37.88	RT-7.92	3'x3' STORM SAS	867.37	863.20	4.17	W/R-1550-0054
S-1A	103+37.76	RT-15.56	H INLET	867.43	863.74	3.69	W/R-3067-7004-V
* S-2	104+26.31	RT-6.29	3'x3' STORM SAS	869.55	866.00	3.55	W/R-1550-0054
S-3	105+57.68	RT-7.51	3'x3' STORM SAS	873.54	869.04	4.50	W/R-1550-0054
S-3A	105+51.87	LT-15.25	H INLET	873.54	869.87	3.67	W/R-3067-7004-V
* S-4	107+09.98	RT-5.41	3'x3' STORM SAS	878.16	874.28	3.88	W/R-1550-0054
S-4A	107+28.85	RT-37.80	H INLET	879.03	875.70	3.33	W/R-3067-7004-V
S-4B	107+61.59	RT-37.12	H INLET	879.90	876.53	3.37	W/R-3067-7004-V
* S-5	108+03.52	RT-7.35	3'x3' STORM SAS	881.45	875.96	5.49	W/R-1550-0054
S-5A	108+03.58	RT-15.19	H INLET	881.62	877.67	3.95	W/R-3067-7004-V
S-5B	108+04.83	LT-15.37	H INLET	881.76	877.75	4.01	W/R-3067-7004-V
* S-6	109+98.33	RT-6.91	3'x3' STORM SAS	890.12	884.73	5.39	W/R-1550-0054
* S-6A	110+12.61	RT-38.00	H INLET	891.81	886.96	4.85	W/R-3067-7004-V
S-6B	110+43.09	RT-49.61	H INLET	892.05	888.52	3.53	W/R-3067-7004-V
** S-7	110+73.97	LT-11.00	3'x3' STORM SAS	891.22	887.30	3.92	W/R-3067-7004-V
** S-8	110+83.71	LT-11.00	3'x3' STORM SAS	891.58	887.94	3.64	W/R-1550-0054
** S-8A	111+27.09	RT-11.00	H INLET	894.41	891.00	3.41	W/R-3067-7004-V
S-8B	110+90.88	LT-16.70	BEND	-	888.04	-	[2]
S-8C	111+03.32	LT-16.70	CLEANOUT	890.93	888.16	2.77	W/R-1976-5005,[2],[3]
** S-9	113+20.02	LT-11.00	H INLET	907.70	902.00	5.70	W/R-3067-7004-V
S-10	113+25.78	LT-15.49	BEND	-	904.27	-	[2]
S-11	113+31.94	LT-15.51	CLEANOUT	907.96	904.38	3.58	W/R-1976-5005,[2],[3]

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
KNUTSON DRIVE										
* P-0	S-0	S-1	863.00	863.20	39	37	0.54%	18"	RCP	-
* P-1	S-1	S-2	863.20	866.00	87	84	3.32%	18"	RCP	-
P-1A	S-1	S-1A	863.70	863.74	8	5	0.78%	12"	RCP	-
* P-2	S-2	S-3	866.00	869.04	128	125	2.43%	18"	RCP	-
* P-3	S-3	S-4	869.04	874.28	151	148	3.55%	18"	RCP	-
P-3A	S-3	S-3A	869.54	869.87	24	21	1.57%	12"	RCP	-
* P-4	S-4	S-5	874.28	875.96	94	91	1.85%	18"	RCP	-
* P-4A	S-4	S-4A	874.78	875.70	38	34	2.69%	12"	RCP	-
P-4B	S-4A	S-4B	875.70	876.53	33	31	2.70%	12"	RCP	-
* P-5	S-5	S-6	875.96	884.73	195	192	4.57%	18"	RCP	-
P-5A	S-5	S-5A	877.46	877.67	8	5	3.91%	12"	RCP	-
* P-5B	S-5	S-5B	876.46	877.75	23	20	6.35%	12"	RCP	-
P-6	S-6	S-7	885.48	887.30	78	75	2.42%	18"	RCP	-
* P-6A	S-6	S-6A	885.23	886.96	35	31	5.51%	15"	RCP	-
* P-6B	S-6A	S-6B	887.21	888.52	33	31	4.29%	12"	RCP	-
P-7	S-7	S-8	887.42	887.94	10	7	7.62%	15"	RCP	-
P-8A	S-8	S-8A	888.19	891.00	49	46	6.06%	12"	RCP	-
P-8	S-8	S-9	888.19	902.00	236	233	5.92%	12"	RCP	-
P-8B	S-8	S-8B	887.94	888.04	10	8	1.18%	8"	PVC	[2]
P-8C	S-8B	S-8C	888.04	888.16	12	12	1.00%	8"	PVC	[1],[2]
P-9	S-9	S-10	904.20	904.27	7	5	1.32%	8"	PVC	[2]
P-10	S-10	S-11	904.27	904.38	11	11	1.01%	8"	PVC	[1],[2]

REMOVE STORM STRUCTURES

REMOVE STORM PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
KNUTSON DRIVE							
RS-1	103+37.86	RT-15.79	H INLET	--	--	--	-

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAY LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
KNUTSON DRIVE							
RP-1	RS-1	RS-2	42	0	12"	RCP	-

STORM STRUCTURE ADJUSTMENTS

ADJUST NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
KNUTSON DRIVE							
ADJ-1	103+01.27	RT-9.15	3X3 CATCHBASIN /W SUMP	866.95	866.95	0.00	W/R-3067-7004-V

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] PVC UNDERDRAIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH S.S. 504.2(Q) DRILLED POLY (VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS
[2] IS INCEDENTAL TO BID ITEM 90028 (BIORETENTION)
[3] SHALL BE BUILT IN CONFORMANCE WITH S.D.D. 5.7.41 (LATERAL CLEANOUT)

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
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SASs.
- 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 REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
-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 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 TODD CHOJNOWSKI OF CITY ENGINEERING AT (608) 266-4094 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO TCHOJNOWSKI@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

* REV 1 TAC 9/16/2024

KNUTSON DRIVE RESURFACING/ RECONSTRUCTION PROJECT NO. 13812	SHEET NO. U-7
STORM SEWER SCHEDULE CITY OF MADISON	

STORM SEWER ULOs (5 ADDITIONAL UNDISTRIBUTED ULOs INCLUDED)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES	NOTES
KNUTSON DRIVE						
* ULO-1	103+18.29	LT-2.05	WATER	861.40	NO CONFLICT	
* ULO-2	104+35.19	RT-7.53	GAS	865.80	MOVED STORM TO ACCOMMODATE	
* ULO-3	105+53.59	LT-9.06	WATER	866.90	NO CONFLICT	
* ULO-4	106+17.04	RT-11.10	GAS	871.70	MG&E WILL RELOCATE	
* ULO-5	106+40.75	RT-10.82	GAS	872.30	MG&E WILL RELOCATE	
* ULO-6	107+53.98	RT-5.48	WATER	872.70	NO CONFLICT	
* ULO-7	107+54.56	RT-36.96	WATER	873.90	NO CONFLICT	
* ULO-8	108+02.98	LT-9.78	WATER	874.90	NO CONFLICT	
* ULO-9	108+83.83	RT-6.59	ELECTRIC	881.60	MOVED STORM TO ACCOMMODATE	
* ULO-9.2	108+84.31	RT-6.46	ELECTRIC	881.70	MOVED STORM TO ACCOMMODATE	
* ULO-10	108+84.70	RT-6.43	FIBER	882.00	MOVED STORM TO ACCOMMODATE	
* ULO-11	110+08.42	RT-4.54	TELE	-	FOUND TO BE ABANDONED	
* ULO-12	110+06.30	RT-24.54	GAS	886.90	MG&E WILL RELOCATE W/ GAS MAIN PROJECT	
* ULO-13	110+07.34	RT-26.64	TELE	-	FOUND TO BE ABANDONED	
* ULO-14	110+47.64	LT-5.39	WATER	885.10	NO CONFLICT	
* ULO-15	110+57.45	LT-5.62	GAS	-	MG&E WILL RELOCATE W/ GAS MAIN PROJECT	
* ULO-16	111+46.97	LT-8.69	GAS	-	MG&E WILL RELOCATE W/ GAS MAIN PROJECT	
* ULO-17.1	112+94.29	LT-9.04	FIBER	902.60	NO CONFLICT	
* ULO-17.2	112+94.24	LT-9.50	FIBER	902.50	NO CONFLICT	
* ULO-17.3	112+94.27	LT-9.47	FIBER	902.40	NO CONFLICT	
* ULO-18	113+12.45	LT-9.64	GAS	904.80	NO CONFLICT	
* ULO-19	113+14.16	LT-9.92	WATER	901.70	WILL NEED TO RELOCATE PAID AS RELOCATE WATER LATERAL	

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

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
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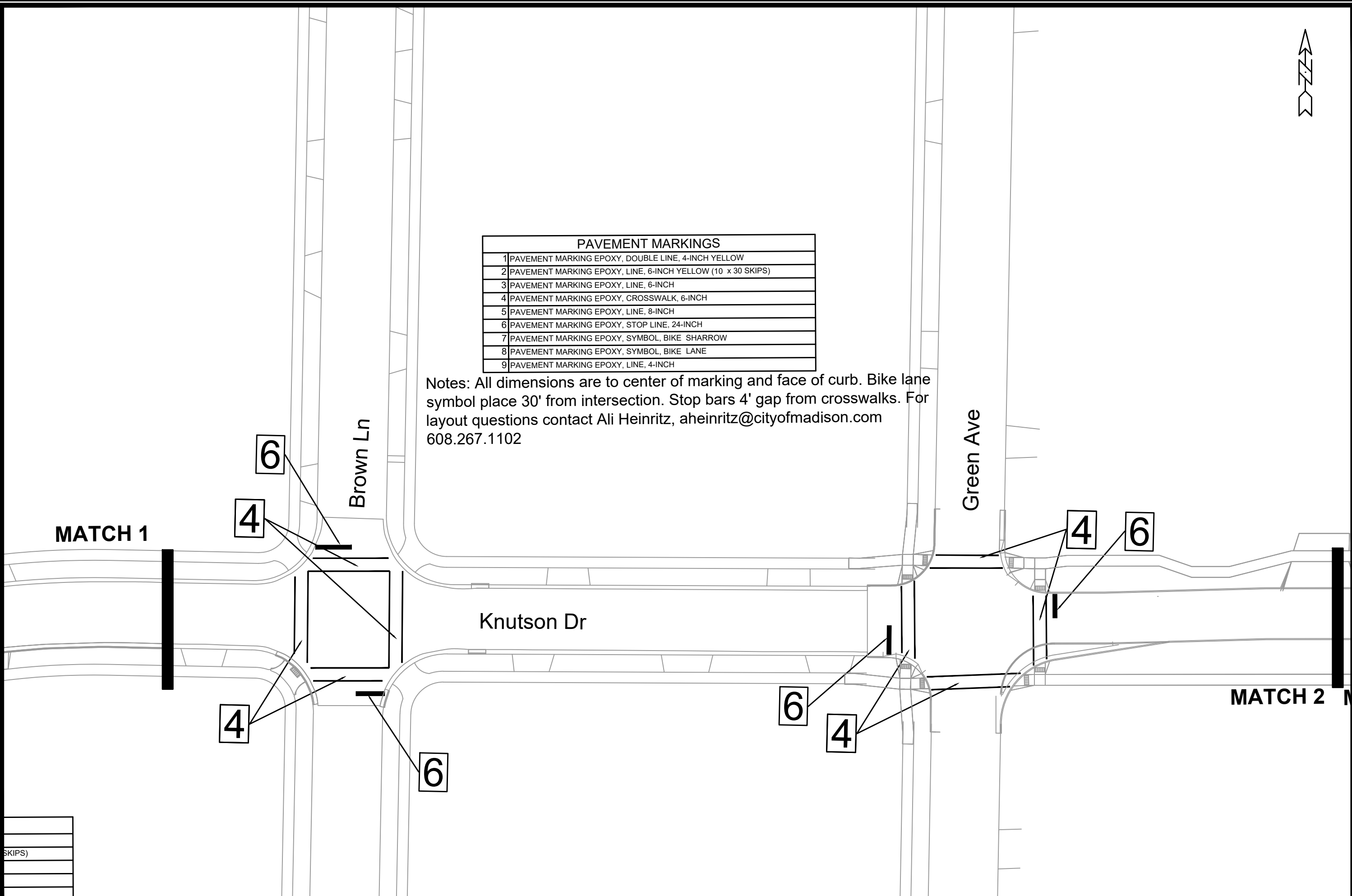
13812	MADISON, WI
CONTRACT NO: 8635	

Notes: All dimensions are to center of marking and face of curb. Bike lane symbol place 30' from intersection. Stop bars 4' gap from crosswalks. For layout questions contact Ali Heinritz, aheinritz@cityofmadison.com
608.267.1102

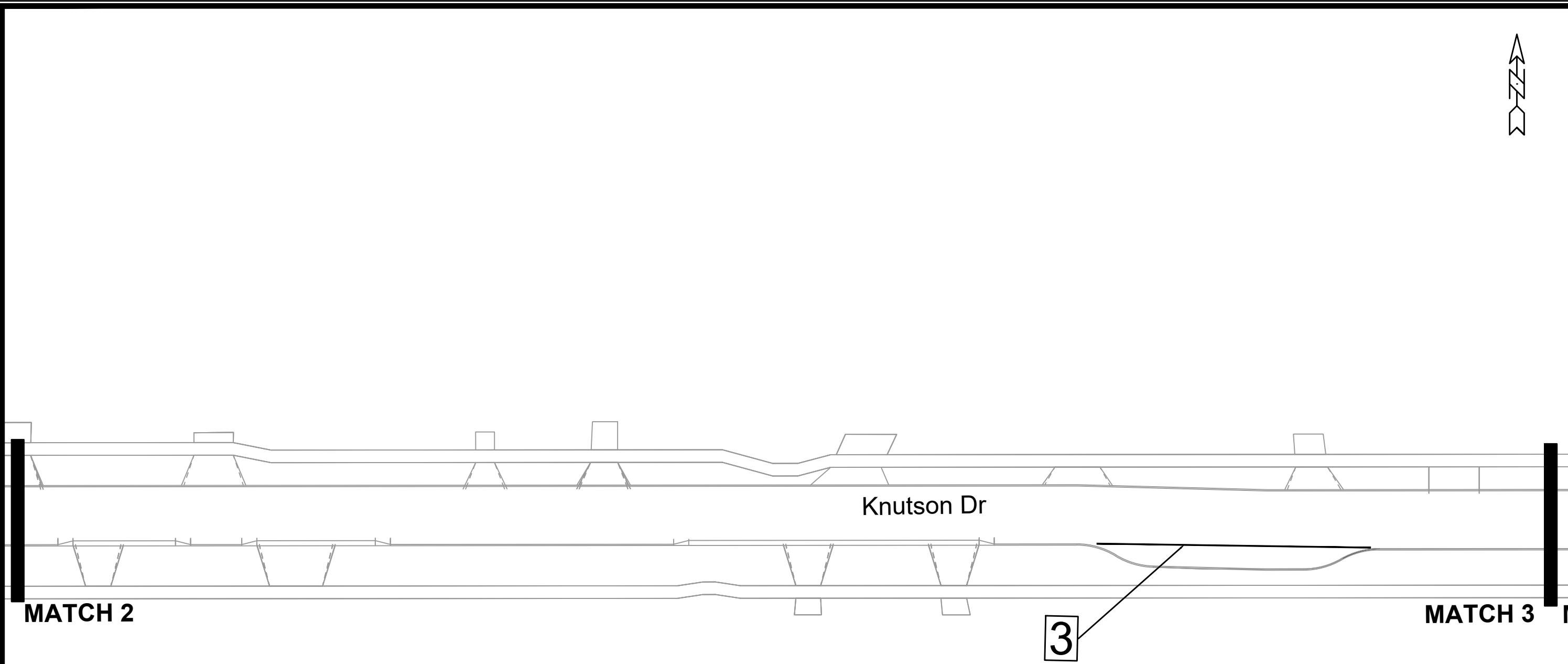


13812
PM-1

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH YELLOW
2	PAVEMENT MARKING EPOXY, LINE, 6-INCH YELLOW (10 x 30 SKIPS)
3	PAVEMENT MARKING EPOXY, LINE, 6-INCH
4	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
5	PAVEMENT MARKING EPOXY, LINE, 8-INCH
6	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
7	PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW
8	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE
9	PAVEMENT MARKING EPOXY, LINE, 4-INCH

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13812
PM-2



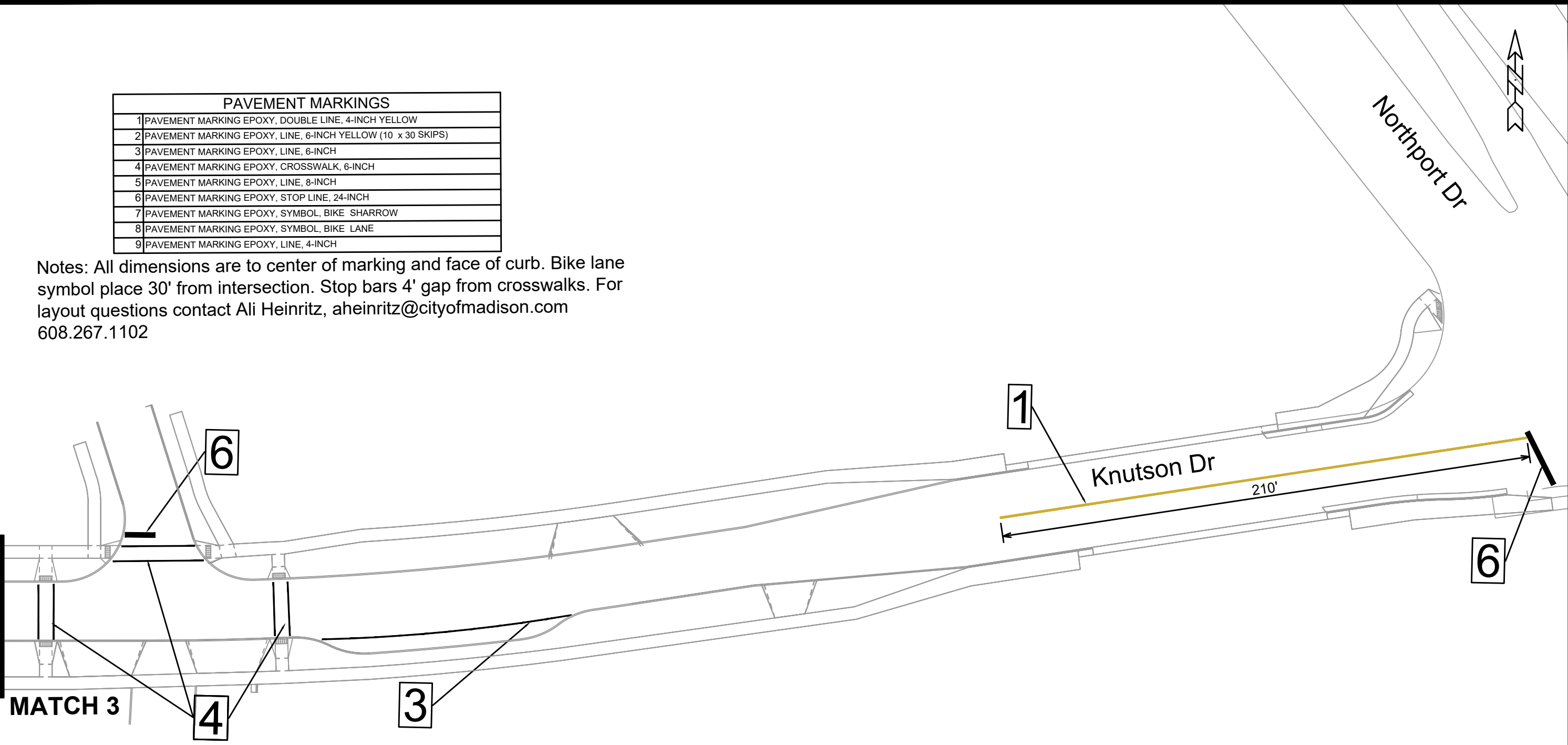
PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH YELLOW
2	PAVEMENT MARKING EPOXY, LINE, 6-INCH YELLOW (10 x 30 SKIPS)
3	PAVEMENT MARKING EPOXY, LINE, 6-INCH
4	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
5	PAVEMENT MARKING EPOXY, LINE, 8-INCH
6	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
7	PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW
8	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE
9	PAVEMENT MARKING EPOXY, LINE, 4-INCH

Notes: All dimensions are to center of marking and face of curb. Bike lane symbol place 30' from intersection. Stop bars 4' gap from crosswalks. For layout questions contact Ali Heinritz, aheinritz@cityofmadison.com 608.267.1102

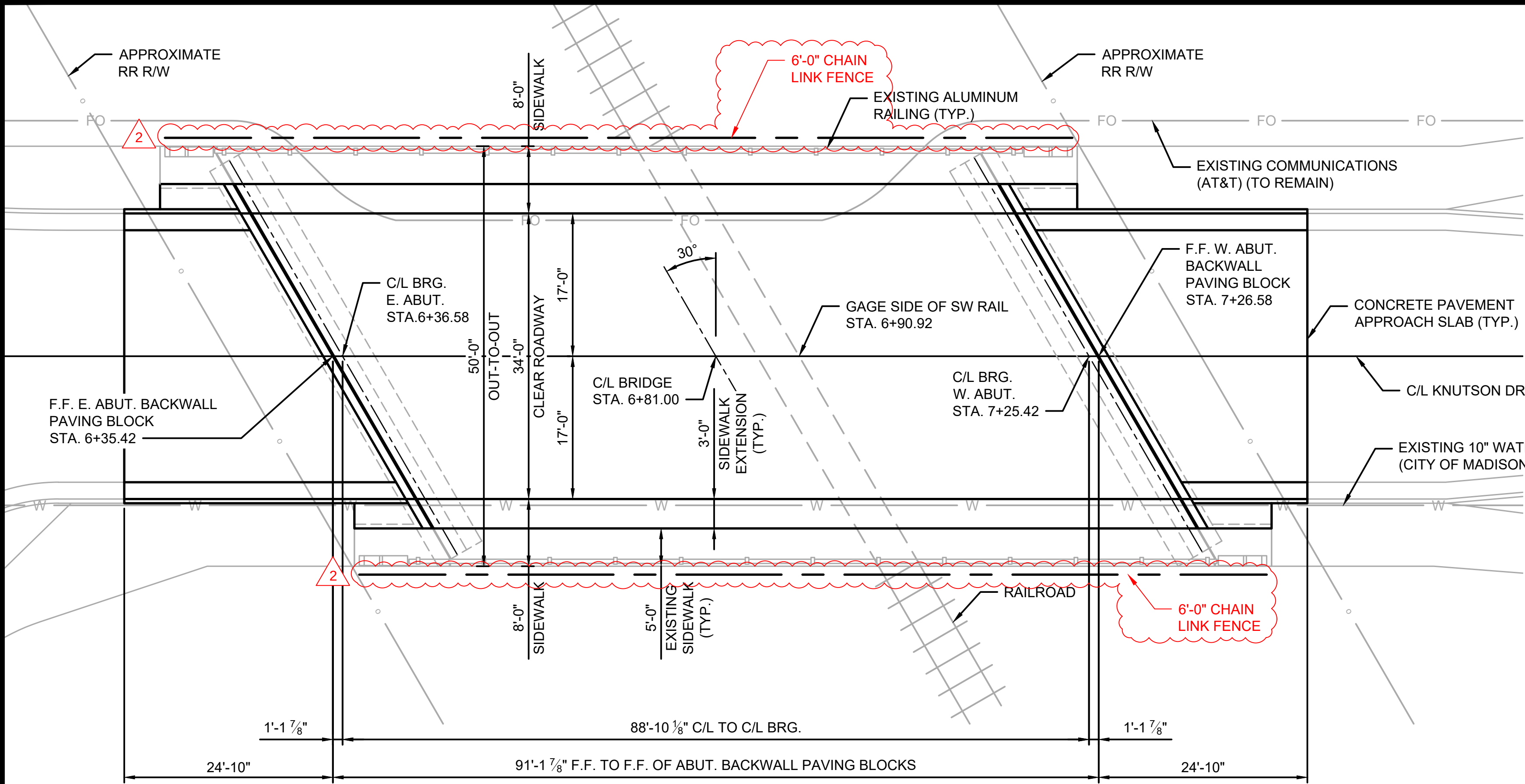
13812		MADISON, WI		13812		PM-3	
KNUTSON DRIVE PAVEMENT MARKING PLAN		KNUTSON DRIVE RESURFACING/RECONSTRUCTION		CONTRACT NO: 8635		Scale: 1" = 40'	
M:\DESIGN\Projects\13812\CAD\Traffic\13812TE-Pavement Markings.dwg							
							
13812							
PM-3							

PAVEMENT MARKINGS	
1	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH YELLOW
2	PAVEMENT MARKING EPOXY, LINE, 6-INCH YELLOW (10 x 30 SKIPS)
3	PAVEMENT MARKING EPOXY, LINE, 6-INCH
4	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH
5	PAVEMENT MARKING EPOXY, LINE, 8-INCH
6	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH
7	PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW
8	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE
9	PAVEMENT MARKING EPOXY, LINE, 4-INCH

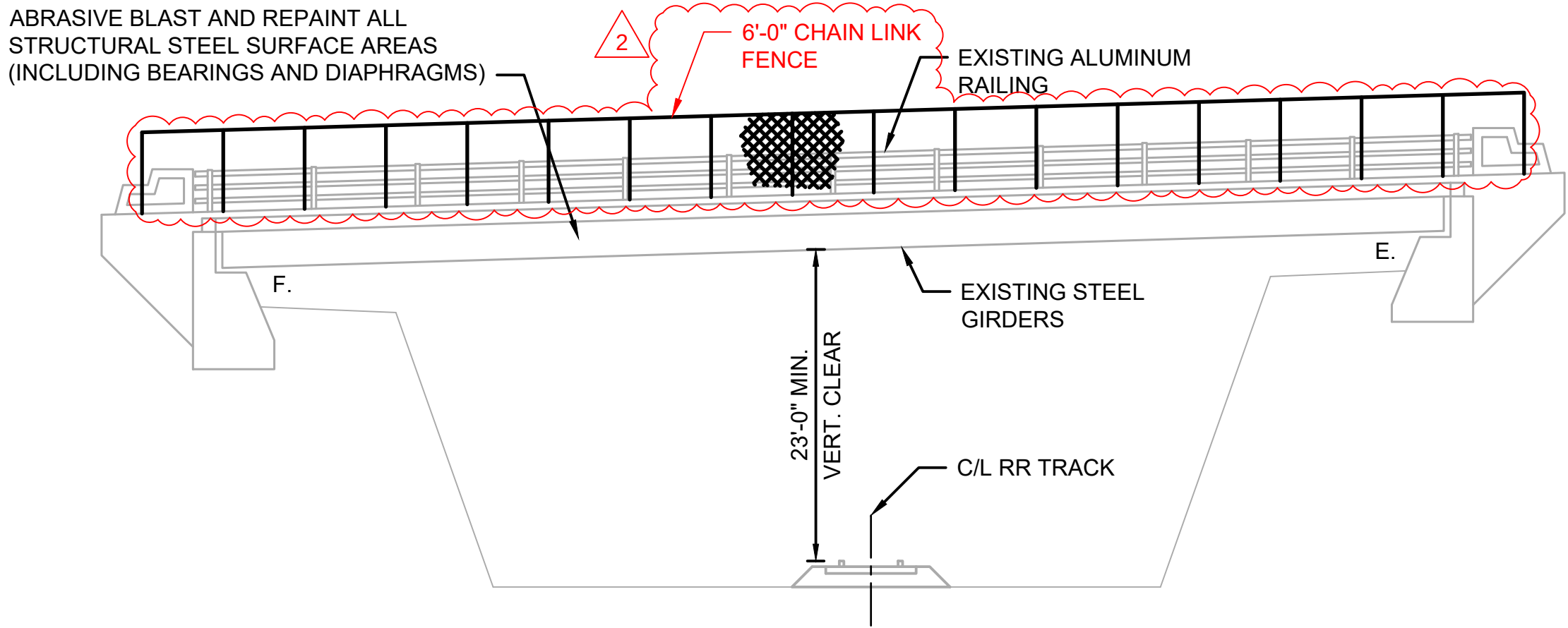
Notes: All dimensions are to center of marking and face of curb. Bike lane symbol place 30' from intersection. Stop bars 4' gap from crosswalks. For layout questions contact Ali Heinritz, aheinritz@cityofmadison.com 608.267.1102



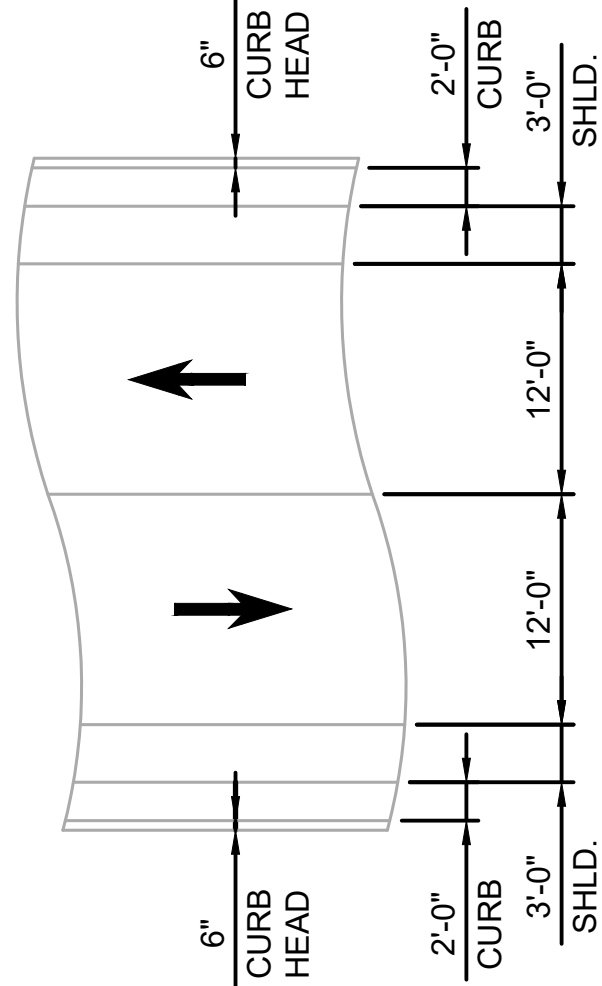
	13812	PM-4
	KNUTSON DRIVE PAVEMENT MARKING PLAN	
	13812	
	MADISON, WI	
	KNUTSON DRIVE RESURFACING/RECONSTRUCTION	
	CONTRACT NO: 8635	
	M:\DESIGN\Projects\13812\CAD\Traffic\13812TE-Pavement Markings.dwg	



PLAN
(ONE SPAN STEEL GIRDER)



ELEVATION
(LOOKING SOUTH, NORMAL TO BRIDGE SUBSTRUCTURE)



LIST OF STRUCTURE DRAWINGS

- S-1 GENERAL PLAN
- S-2 CROSS SECTION & QUANTITIES
- S-3 SUPERSTRUCTURE PLAN & DETAILS
- S-4 COVER PLATE DETAILS
- S-5 CONCRETE APPROACH PLAN & DETAILS
- S-6 CHAIN LINK FENCE DETAILS**

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS20
OPERATING RATING: HS34

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE $f'_c = 4,000$ PSI
BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ PSI

GENERAL NOTES

THE PROPOSED WORK INCLUDES REPAINTING STRUCTURAL STEEL, COVER PLATE REPLACEMENT, NEW SIDEWALK, AND CONCRETE APPROACHES.

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

STATIONS, DIMENSIONS, AND ELEVATIONS SHOWN ARE BASED ON THE ORIGINAL PLANS AND SUBSEQUENT REHABILITATION PLANS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST DIGIT OF THE BAR MARKS SIGNIFY THE BAR SIZE.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND VERTICAL SURFACES OF NEW SIDEWALKS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

STRUCTURAL STEEL SHALL BE PAINTED LIGHT GRAY (AMS STANDARD COLOR 26293).

CLEAN AND REPAINT EXISTING BEARINGS AT ABUTMENTS. CLEANING AND REPAINTING BEARINGS SHALL BE INCLUDED WITH BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE P-13-748".

PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE TOP SURFACES OF THE EXISTING SIDEWALKS.

POLYMER OVERLAY SHALL BE APPLIED TO THE TOP SURFACE OF THE EXISTING DECK AND PAVING BLOCK. ANY DECK REPAIRS REQUIRED PRIOR TO THE OVERLAY, AS DESCRIBED IN THE "POLYMER OVERLAY" SPECIAL PROVISION, SHALL BE PAID FOR UNDER "CONCRETE SURFACE REPAIR" BID ITEM.

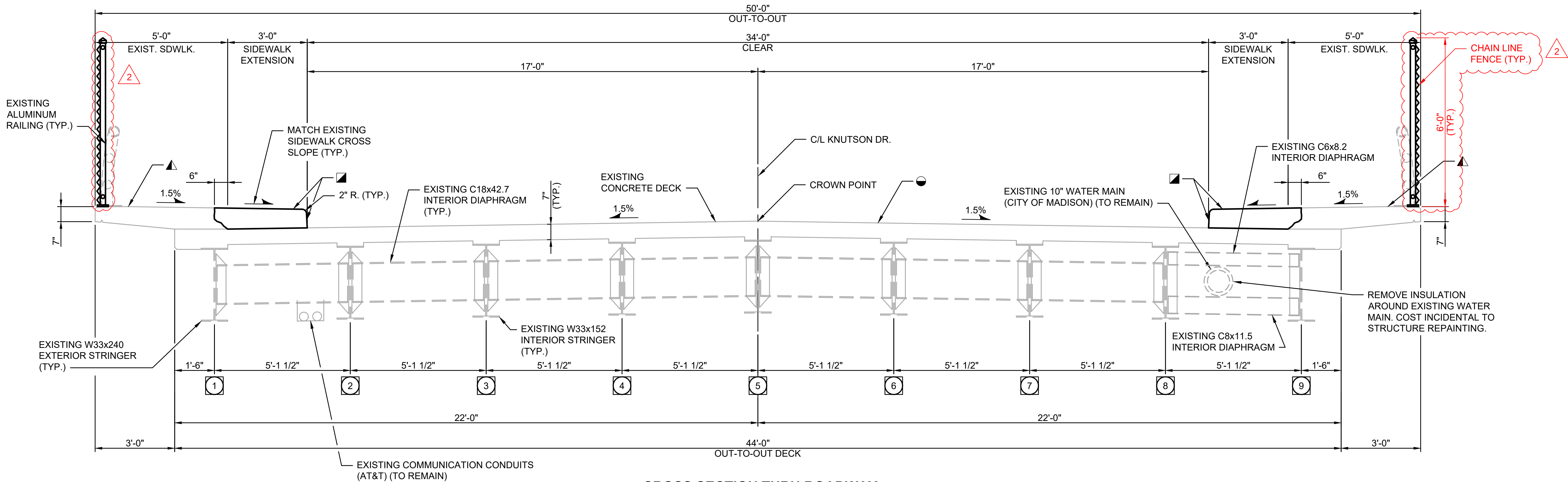


GENERAL PLAN

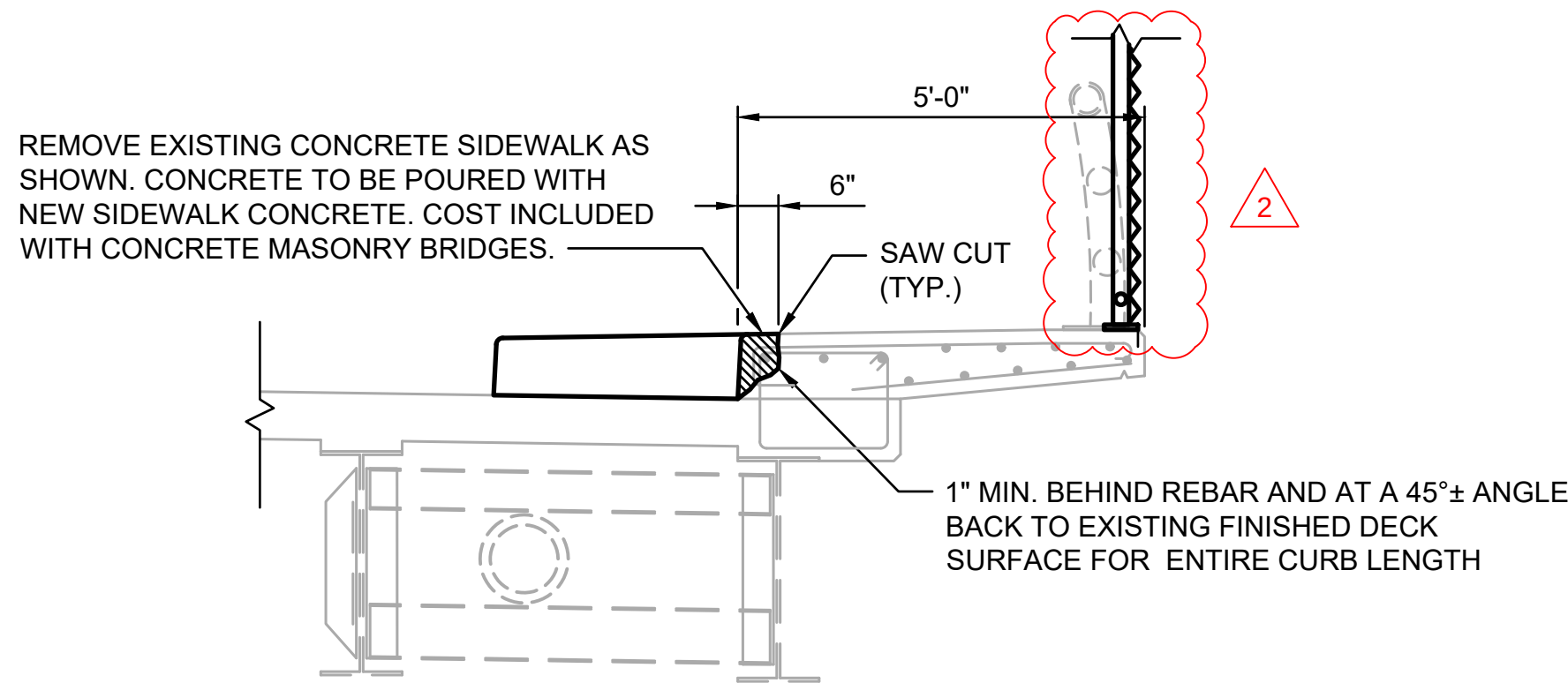
KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

DATE:	2/7/2025								
NO.	2								
REVISIONS	ADD 6'-0" FENCE								

JOB NO. 1020.128
PROJECT MGR. KRB
SA STRAND ASSOCIATES®
SHEET S-1



CROSS SECTION THRU ROADWAY
(LOOKING WEST)



SIDEWALK REPAIR
(NORTH SIDEWALK SHOWN, SOUTH SIMILAR)

- LEGEND
- # INDICATES GIRDER NUMBER.
 - PROTECTIVE SURFACE TREATMENT.
 - PROTECTIVE SURFACE TREATMENT RESEAL.
 - POLYMER OVERLAY

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	REFERENCE WISDOT BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
90001	---	STRUCTURE REPAINTING RECYCLED ABRASIVE P-13-748	EACH	1
90002	---	DISPOSAL OF WASTE MATERIAL	LS	1
90003	---	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS P-13-748	EACH	1
90004	---	PORTABLE DECONTAMINATION FACILITY	EACH	1
90005	---	SIDEWALK COVER PLATE	LF	28
90006	502.0100	CONCRETE MASONRY BRIDGES	CY	20
90007	502.3200	PROTECTIVE SURFACE TREATMENT	SY	98
90008	502.3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	110
90009	502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	272
90010	502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	32
90011	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1050
90012	415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	185
90013	509.1500	CONCRETE SURFACE REPAIR	SF	15
90014	---	POLYMER OVERLAY	SY	354
90015	616.0206	FENCE CHAIN LINK 6-FT	LF	210

DATE:	2/7/2025
REVISIONS	ADD 6'-0" FENCE
NO.	2

CROSS SECTION & QUANTITIES

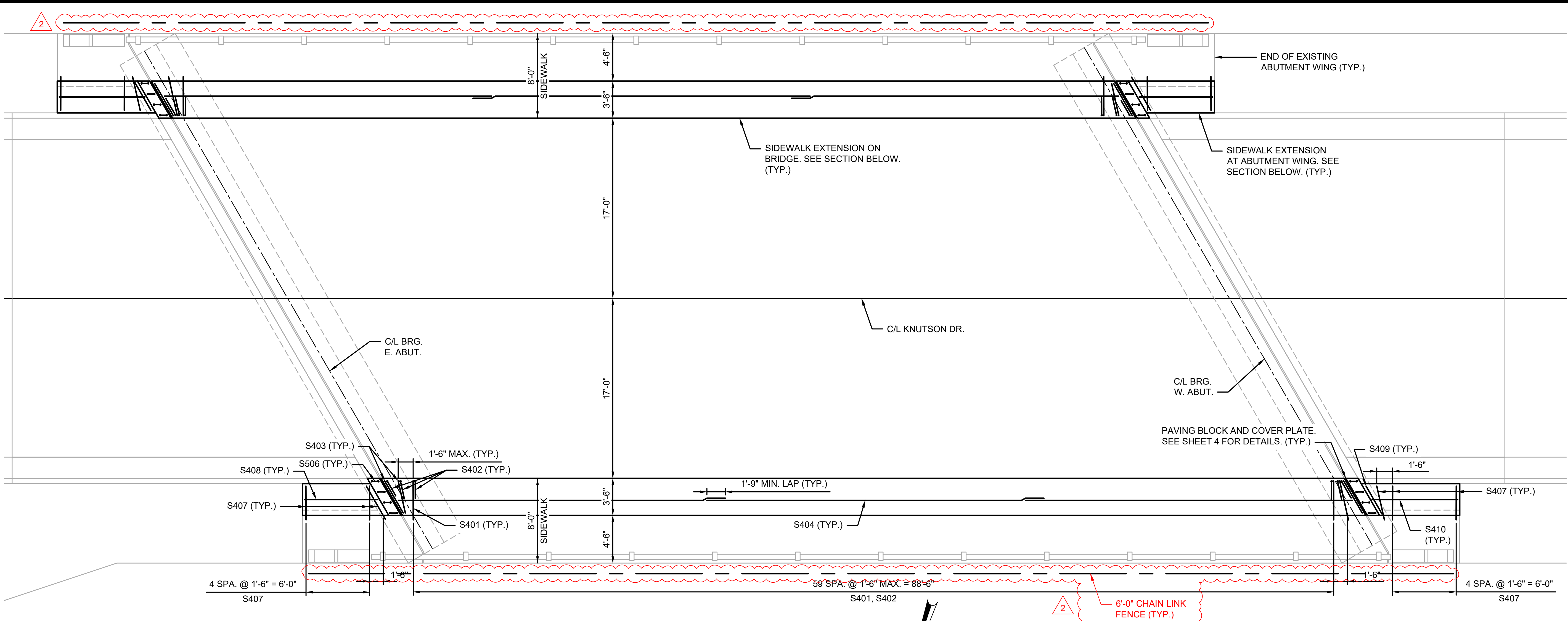
KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

JOB NO.
1020.128

PROJECT MGR.
KRB



SHEET
S-2



**SUPERSTRUCTURE
BILL OF BARS**

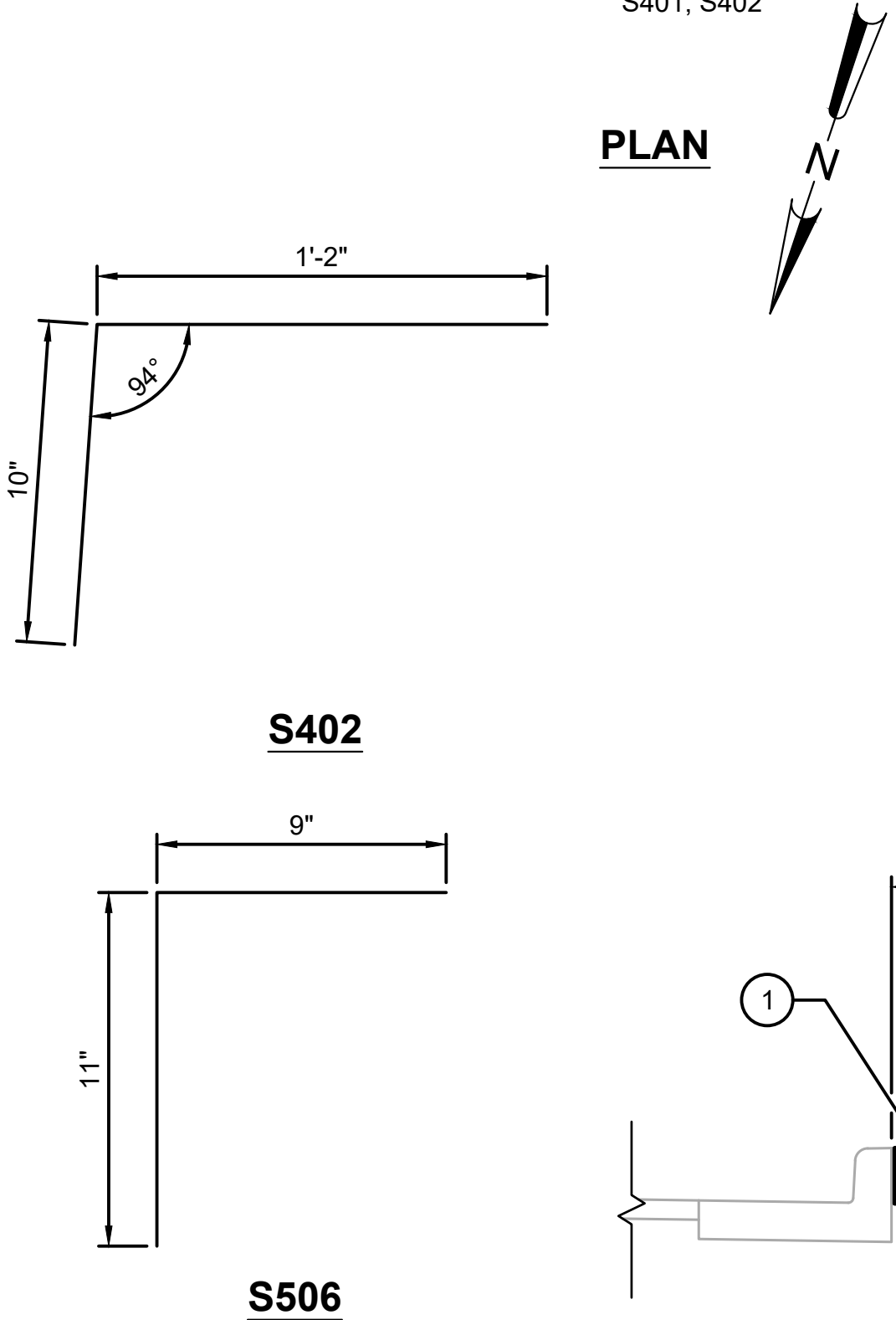
COATED: 1050 LBS

BAR MARK	NO REQD	LENGTH	BENT	COAT	LOCATION
▲ S401	120	3'-8"		X	SIDEWALK - TRANSVERSE - DOWEL
▲ S402	128	1'-11"	X	X	SIDEWALK - TRANSVERSE - DOWEL
S403	8	3'-2"		X	SIDEWALK - TRANSVERSE
S404	18	31'-5"		X	SIDEWALK - LONGIT.
S505	8	3'-8"		X	SIDEWALK - PAVING BLOCK - TRANSVERSE
▲ S506	32	1'-7"	X	X	SIDEWALK - PAVING BLOCK - VERT.
▲ S407	24	3'-2"		X	SIDEWALK AT WING - TRANSVERSE - DOWEL
† S408	6	6'-11"		X	SIDEWALK AT WING - LONGIT.
S409	2	3'-0"		X	SIDEWALK AT WING - TRANSVERSE
† S410	6	8'-1"		X	SIDEWALK AT WING - LONGIT.

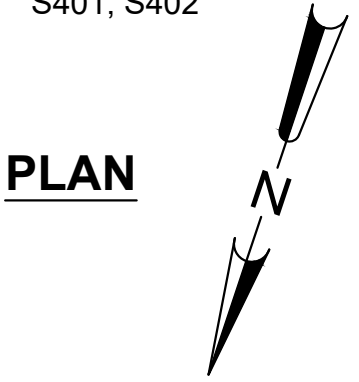
† LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

MARK	NO. REQ'D.	LENGTH
S408	2 SERIES OF 3	6'-1" TO 7'-8"
S410	2 SERIES OF 3	7'-3" TO 8'-10"

BUNDLE AND TAG EACH SERIES SEPARATELY.

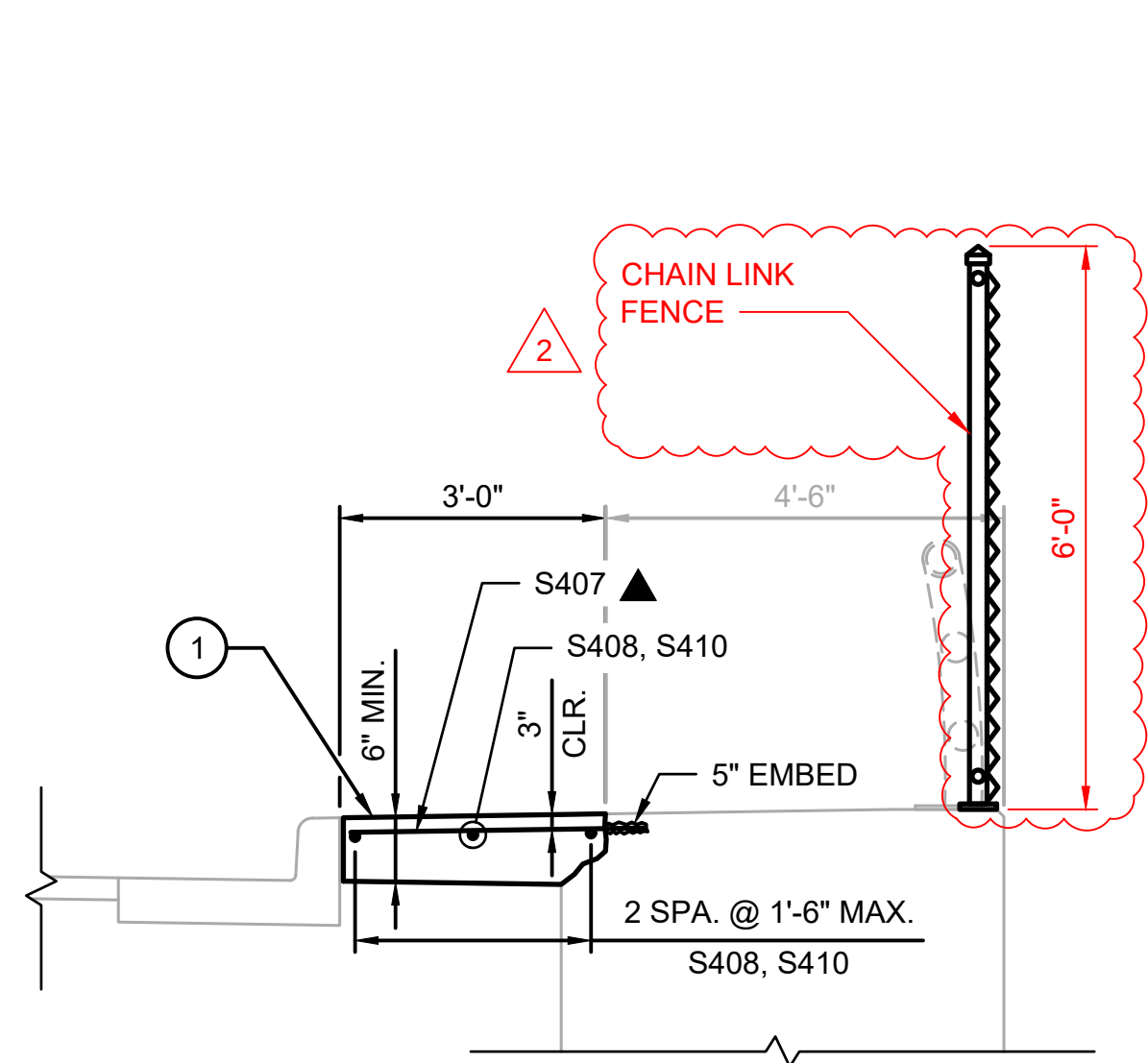


PLAN

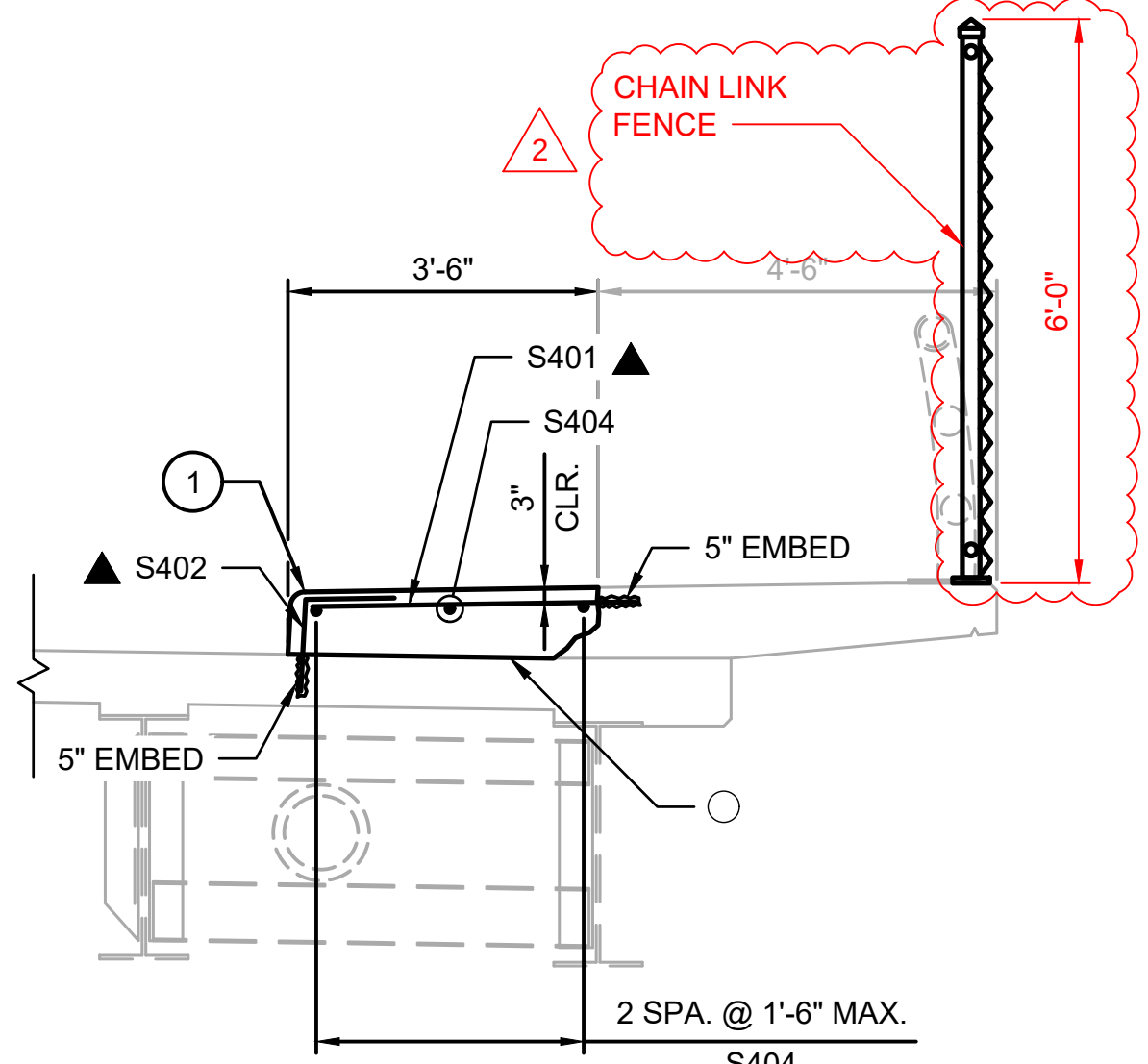


LEGEND:

- ① MATCH CROSS SLOPE OF EXISTING SIDEWALK.
- ▲ ADHESIVE ANCHOR BAR.
- CLEAN ALL LOOSE MATERIAL ON THE DECK AT THE SIDEWALKS PRIOR TO CONCRETE PLACEMENT USING HIGH PRESSURE WATER OR AIR. ENSURE ALL FREE-STANDING WATER IS REMOVED PRIOR TO CONCRETE PLACEMENT. NEAT CEMENT IS REQUIRED AS PER 509.3.9.2 OF THE STANDARD SPECIFICATIONS.



SECTION AT ABUTMENT WING



SECTION AT SIDEWALK ON BRIDGE

NO.	REVISIONS	DATE
2	ADD 6'-0" FENCE	2/7/2025

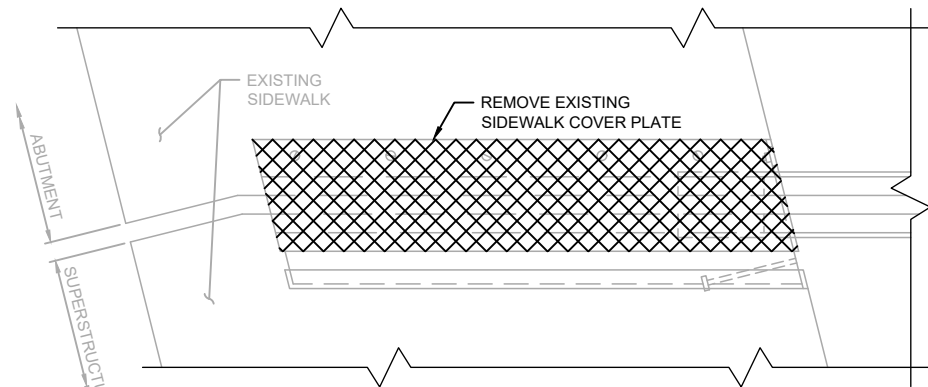
SUPERSTRUCTURE PLAN & DETAILS

KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

JOB NO.
1020.128

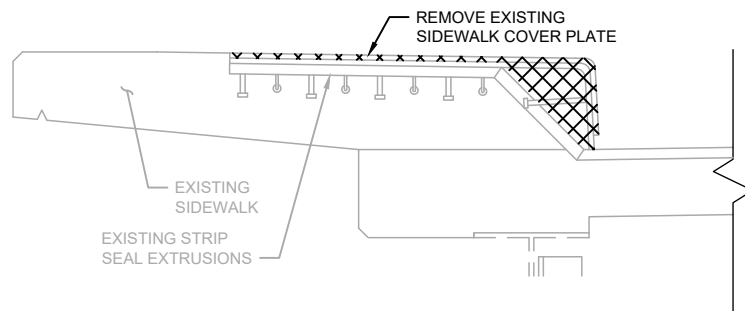
PROJECT MGR.
KRB

SHEET
S-3

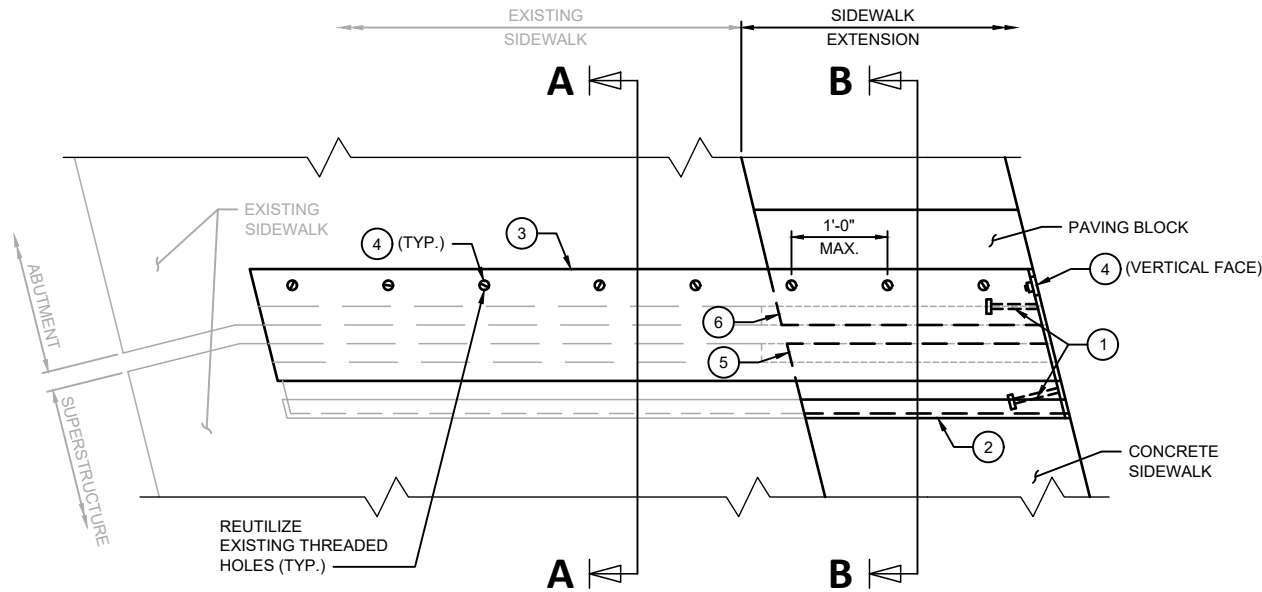


EXISTING PLAN AT SIDEWALK

(4 LOCATIONS TOTAL. 2 AS SHOWN. 2 SIMILAR)

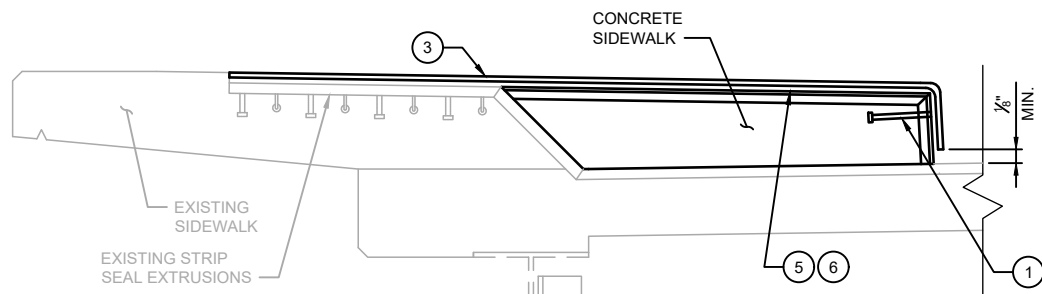


EXISTING SECTION AT SIDEWALK

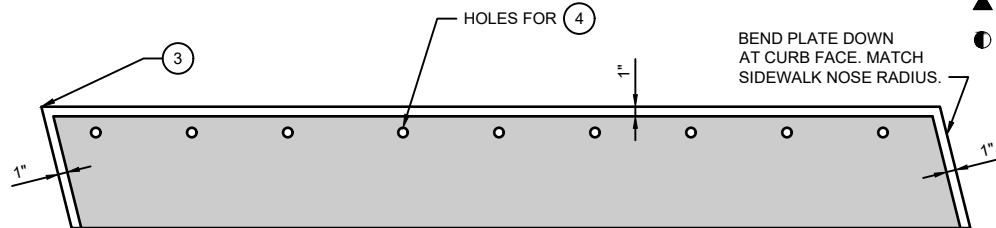


PLAN AT SIDEWALK

(4 LOCATIONS TOTAL. 2 AS SHOWN. 2 SIMILAR)



SECTION AT SIDEWALK



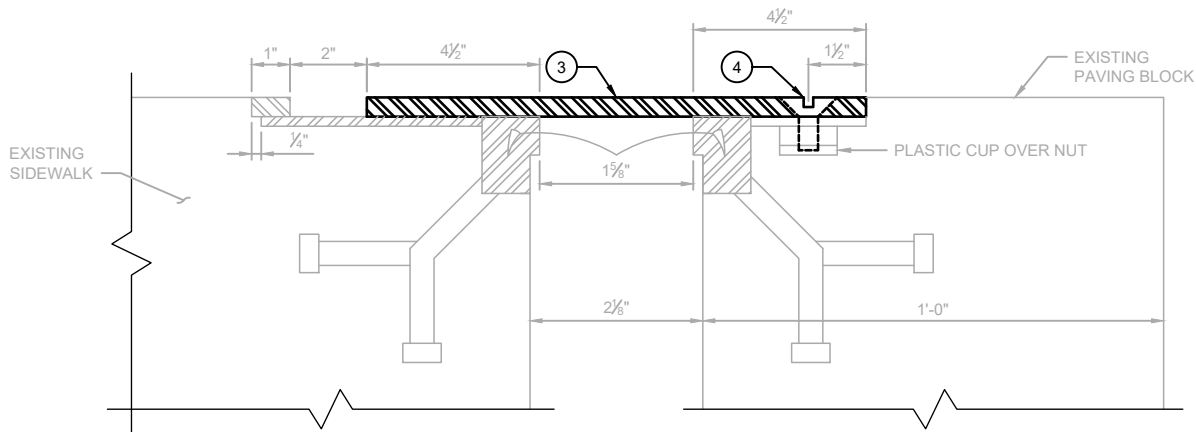
PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

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

LEGEND:

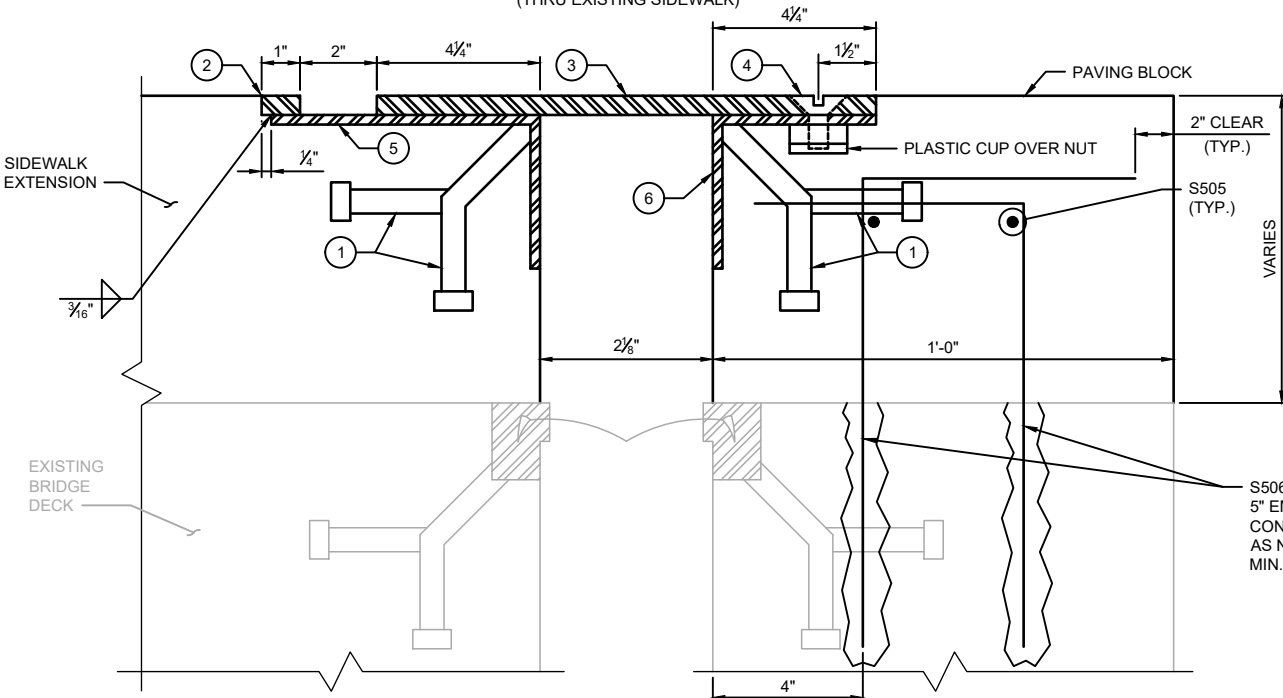
- 1 5/8" DIA. x 6 3/8" LONG STUDS AT 6" ALTERNATE CENTERS. WELD TO STEEL ANGLE AND BEND AS SHOWN.
- 2 1" x 3/8" BAR. BEND AS SHOWN.
- 3 SIDEWALK COVER PLATE 3/8" x LIMITS SHOWN. BEND AS SHOWN. PROVIDE C'SCK HOLES FOR NO. 4. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.
- 4 3/4" DIA. C'SCK. STAINLESS STEEL FLAT HEAD CAP SCREW WITH ANTI-SEIZE LUBRICANT & HEX HEAD NUT. WELD NUT TO NO. 6 PROVIDE NUT WITH 1" DEEP PLASTIC CAP OVER NUT TO KEEP CONC. FROM ENTERING BOLT CAVITY.
- 5 L7 x 4 x 3/8 STEEL ANGLE. AT CURB FACE, CUT VERTICAL LEG SHORT AND BEND DOWN HORIZONTAL LEG.
- 6 L4 x 4 x 3/8 STEEL ANGLE. AT CURB FACE, CUT VERTICAL LEG SHORT AND BEND DOWN HORIZONTAL LEG. DRILL AND TAP FOR NO. 4.
- ▲ ADHESIVE ANCHOR BAR.
- BARS PLACED PARALLEL TO C/L GIRDERS. SPACING PERPENDICULAR TO C/L GIRDERS.

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



SECTION A-A

(THRU EXISTING SIDEWALK)



SECTION B-B

(THRU SIDEWALK EXTENSION)

COVER PLATE DETAILS

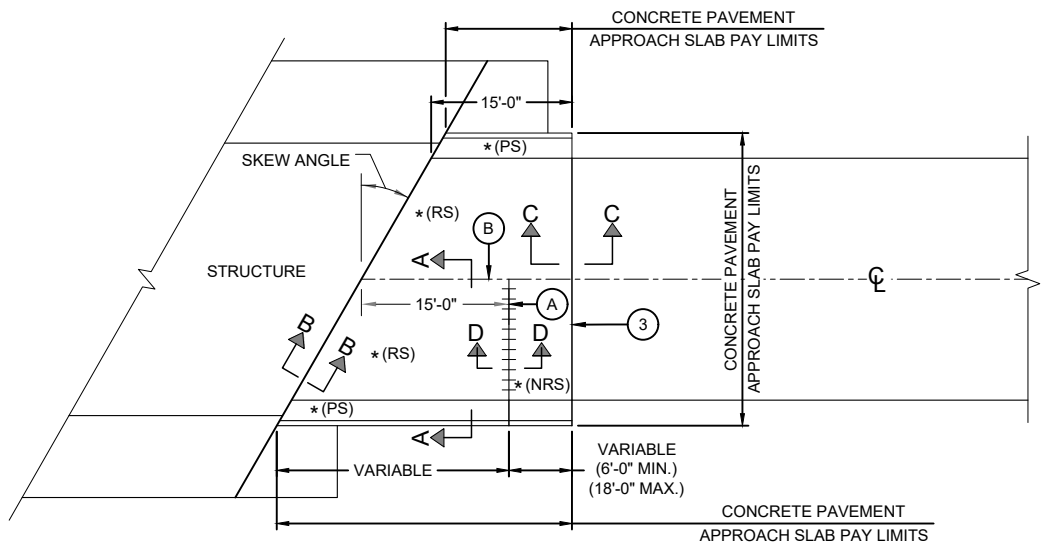
KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

JOB NO.
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SHEET
S-4



CONCRETE APPROACH PLAN

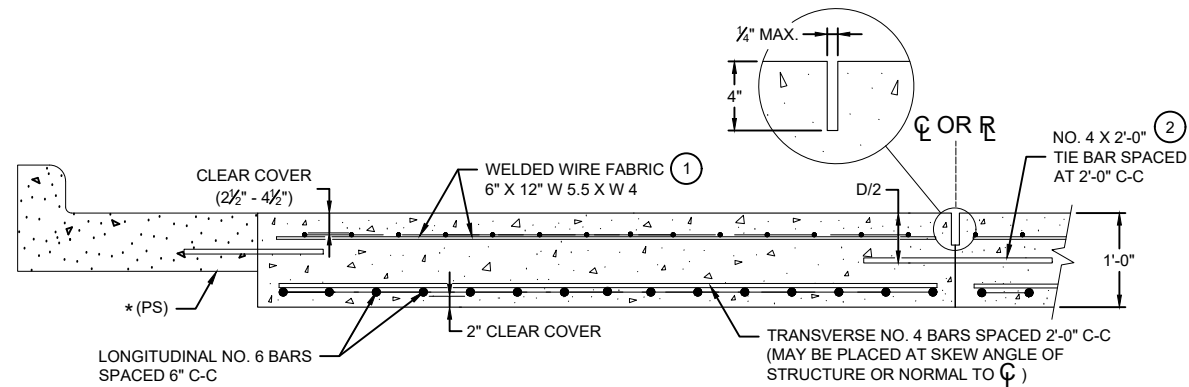
- * (RS) = REINFORCED CONCRETE SLAB
- * (PS) = PAVED CONCRETE CURB & GUTTER. 6" MIN. THICKNESS. MATCH ROADWAY PLAN DETAILS.
- * (NRS) = NON-REINFORCED CONCRETE SLAB
- *** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)

GENERAL NOTES

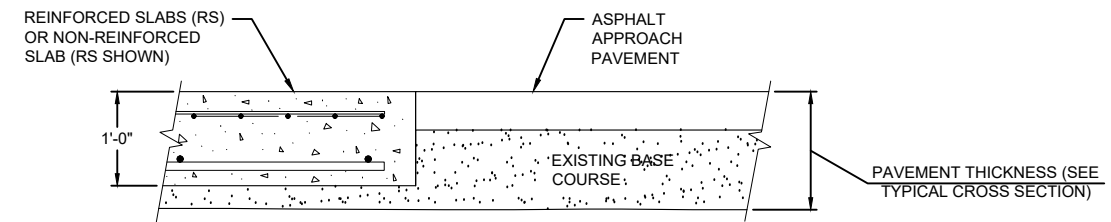
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

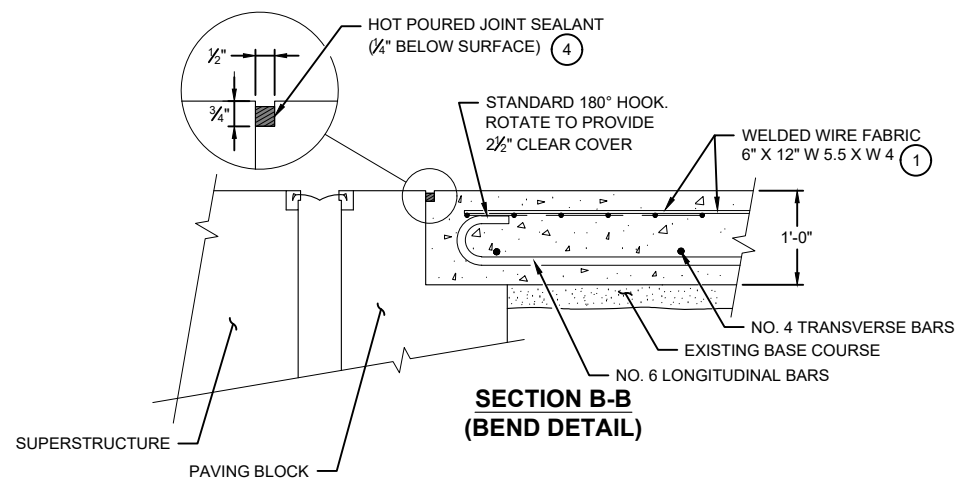
- THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- USE A JOINT SEALANT CONFORMING TO WISDOT STANDARD SPECIFICATION 415.2.6.
- STANDARD CONTRACTION JOINT NORMAL TO CL OR RL.
- STANDARD LONGITUDINAL JOINT WITH TIE BARS.



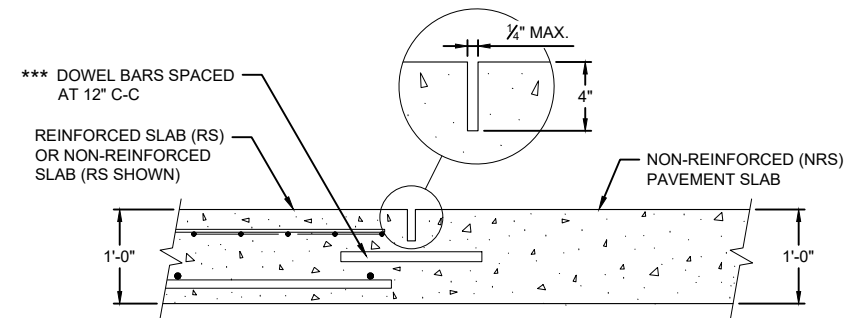
SECTION A-A
(REINFORCEMENT POSITIONING DETAIL)



SECTION C-C
(TRANSITION DETAIL)



SECTION B-B
(BEND DETAIL)



SECTION D-D
(CONTRACTION JOINT)

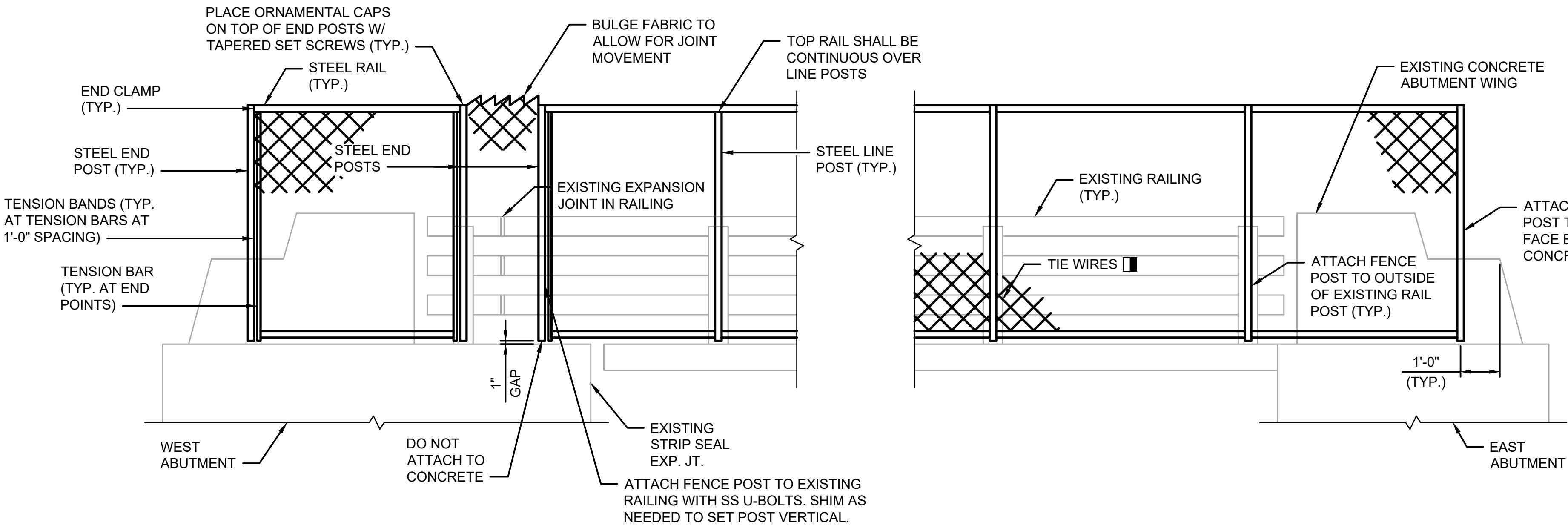
CONCRETE APPROACH PLAN & DETAILS

KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

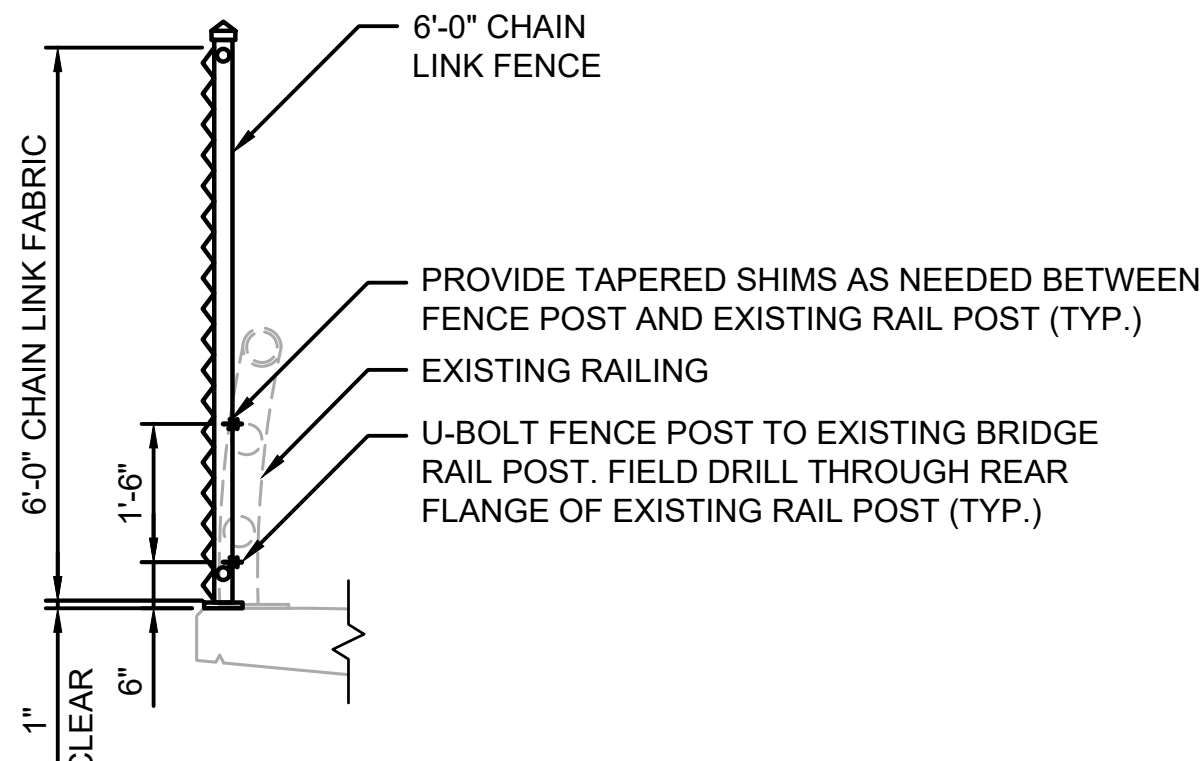
JOB NO.
1020.128
PROJECT MGR.
KRB

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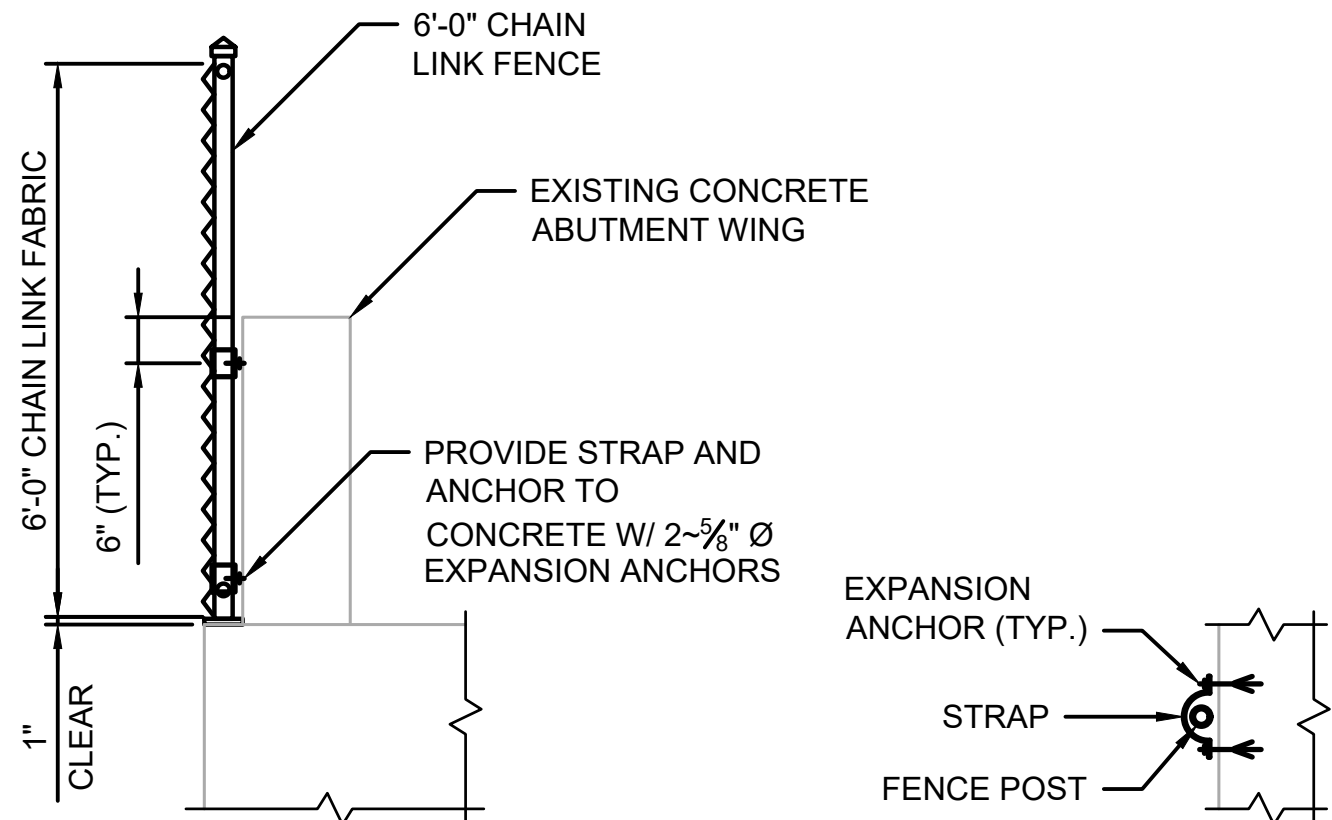
SHEET
S-5



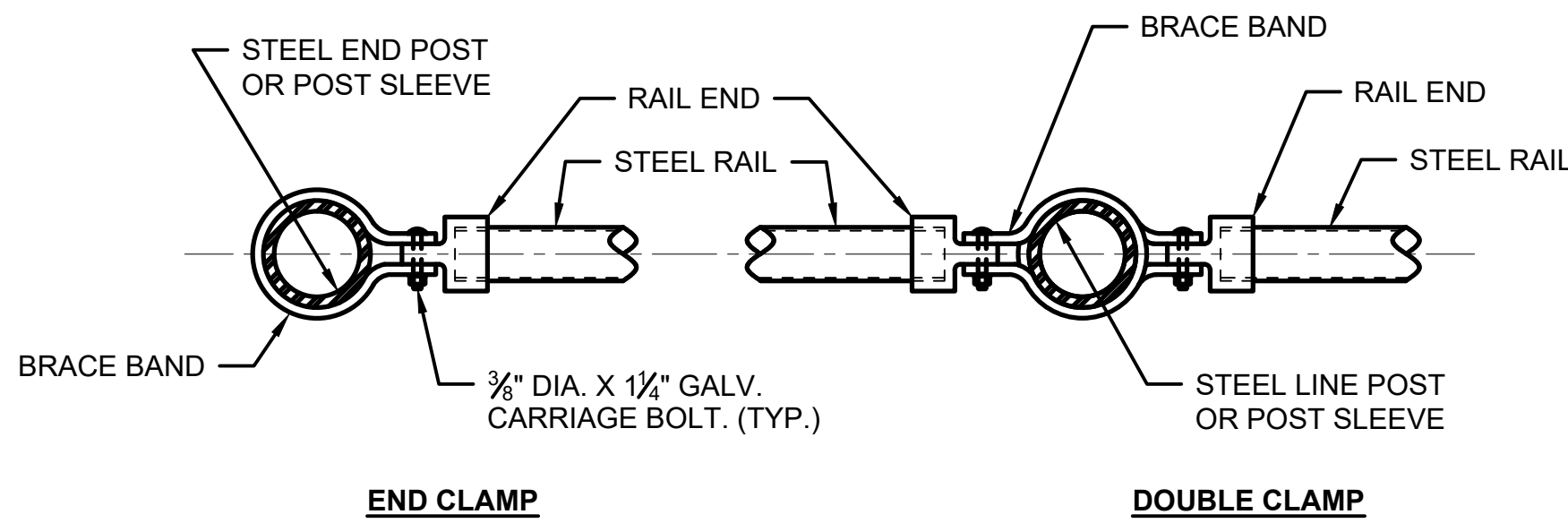
FENCE POST ELEVATION



SECTION THRU FENCE AT RAILING



SECTION THRU FENCE AT ABUTMENT WING



SECTION A-A

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS

NOTES

POSTS ARE TO BE SET VERTICAL.

METALLIC-COATED FENCE SYSTEM:
ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FENCE FABRIC WHICH MAY BE ALUMINUM- COATED STEEL OR GALVANIZED STEEL.

FABRIC SHALL CONFORM TO ASTM A491 OR A392, CLASS 2. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

■ ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR 1/4 POINT OF POST SPACING.

FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
OVERHANG POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12

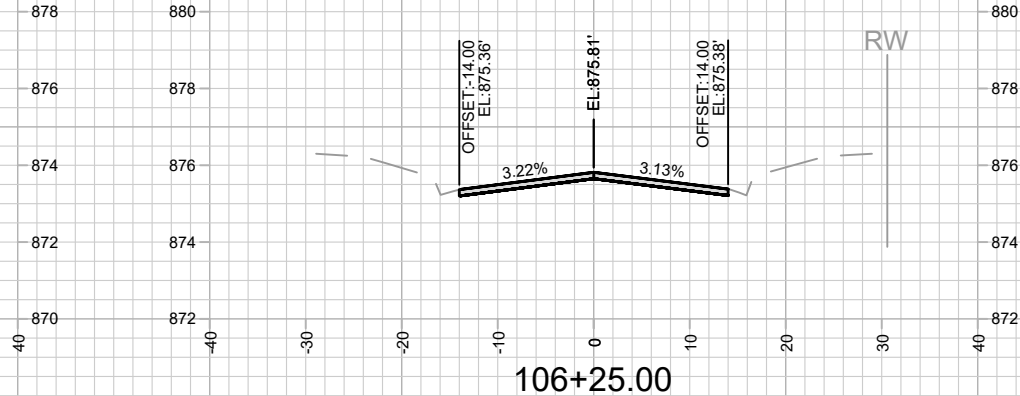
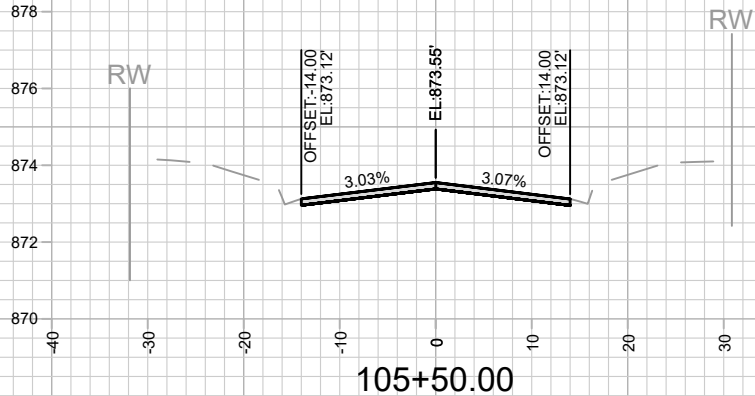
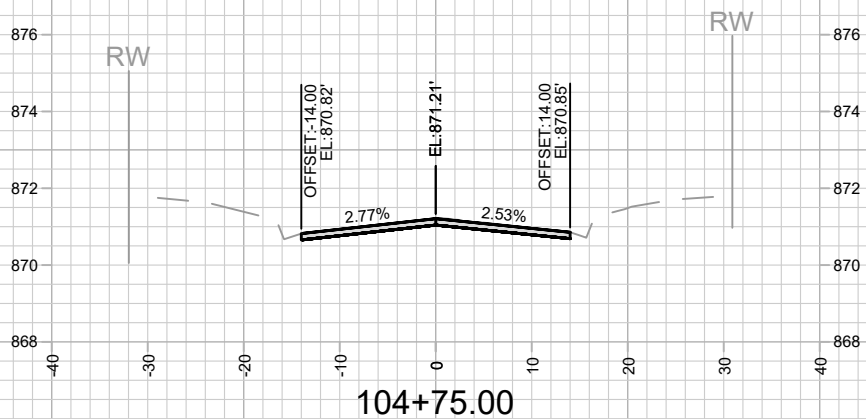
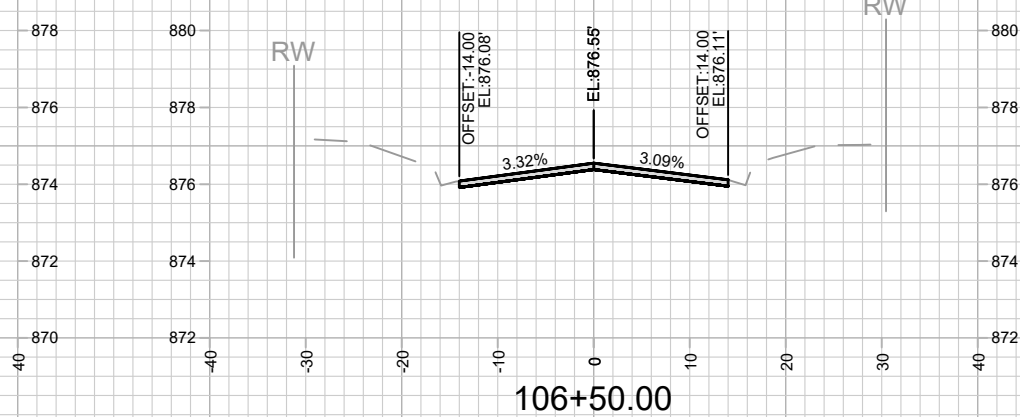
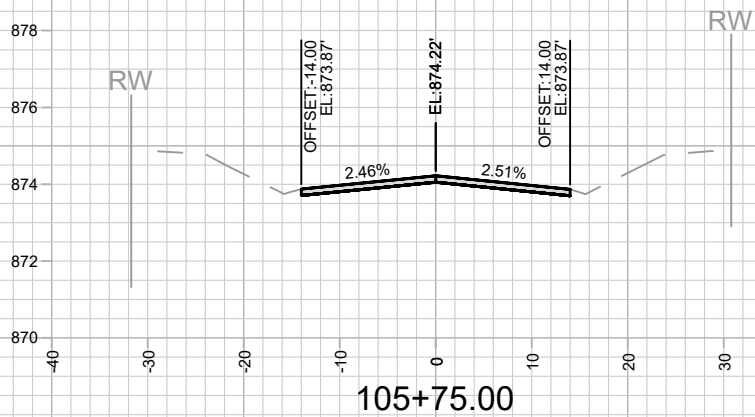
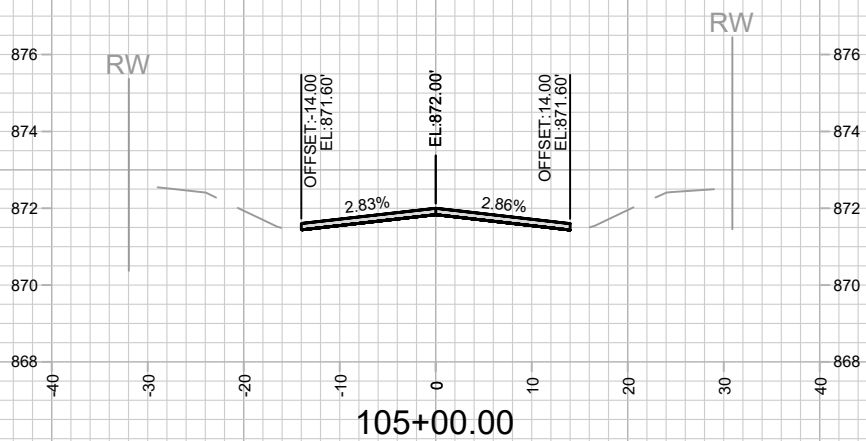
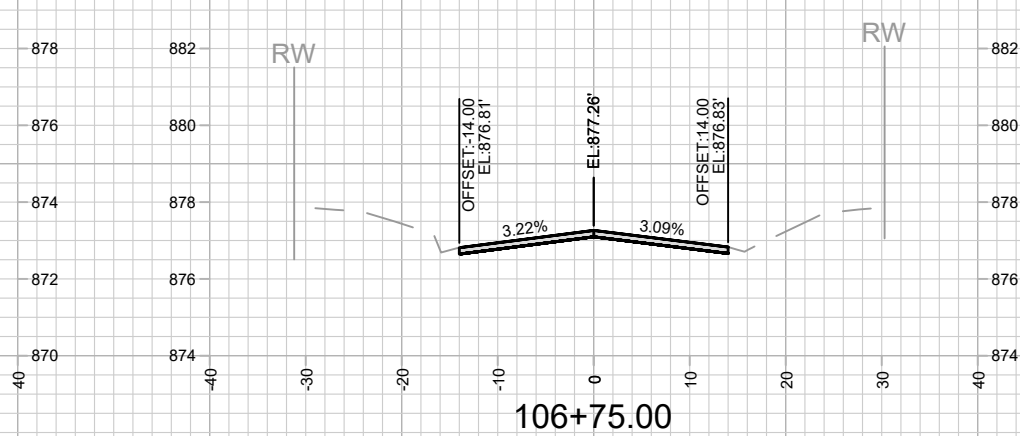
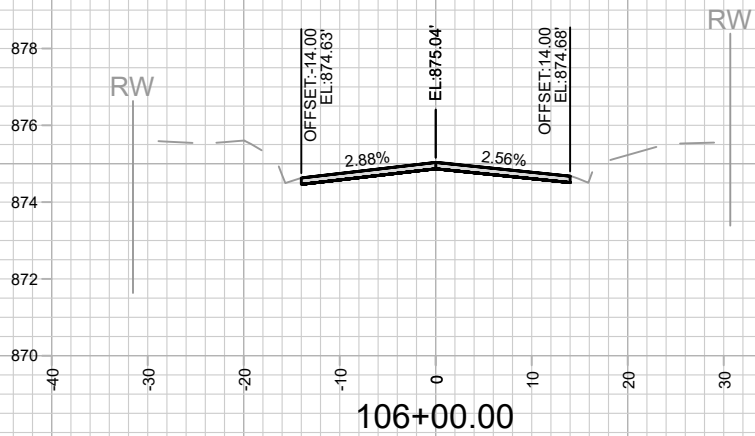
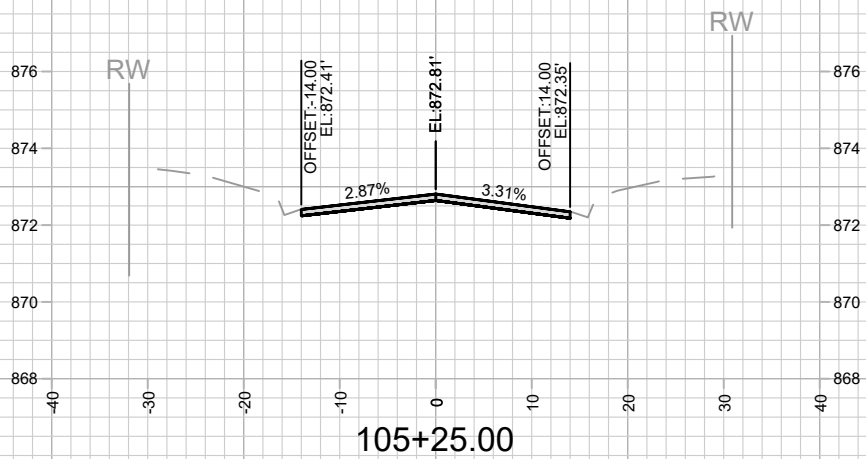
CHAIN LINK FENCE DETAILS

KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

JOB NO.
1020.128
PROJECT MGR.
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SHEET
S-6



13812
X-2

KNUTSON DRIVE RESURFACING CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

13812
MADISON, WI

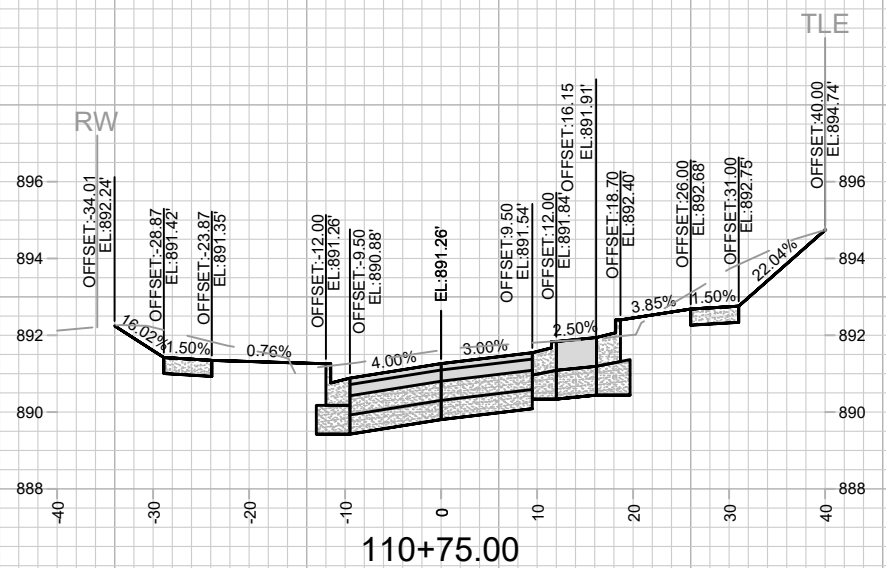
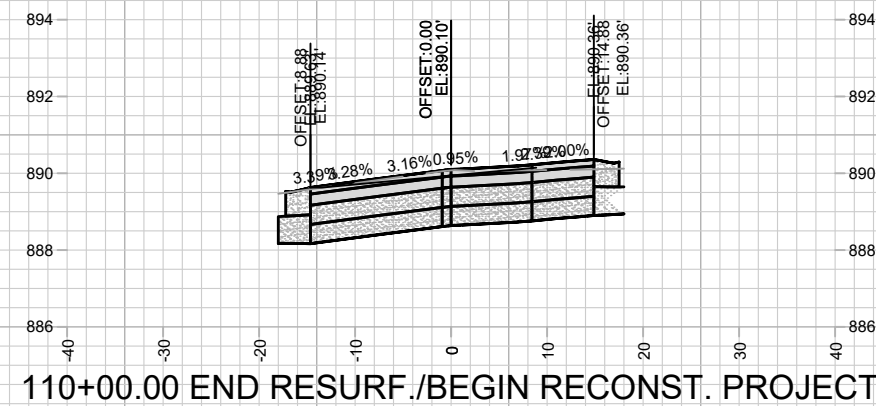
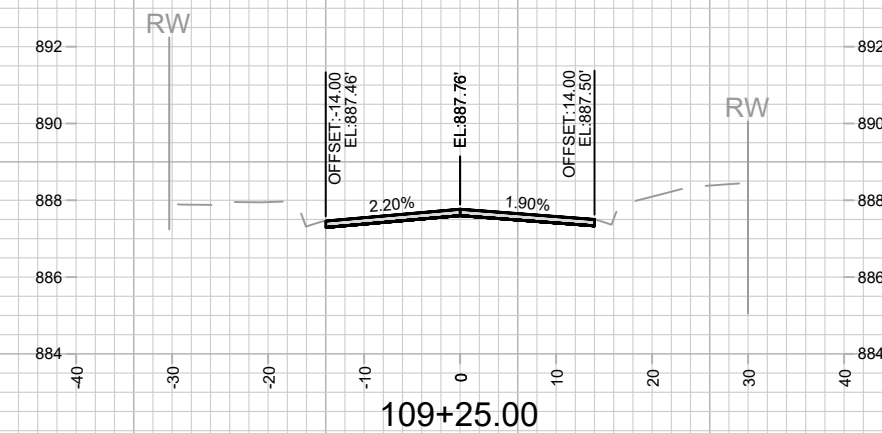
CONTRACT NO:

8635

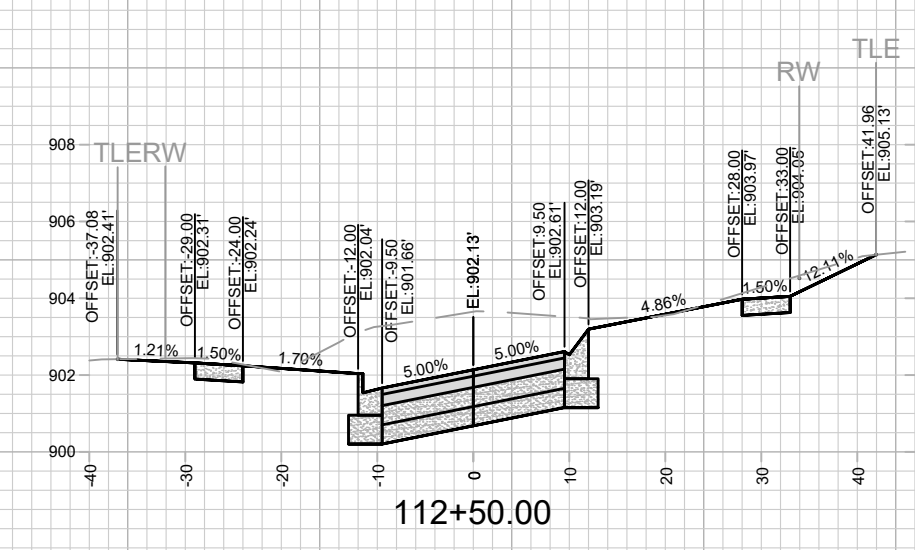
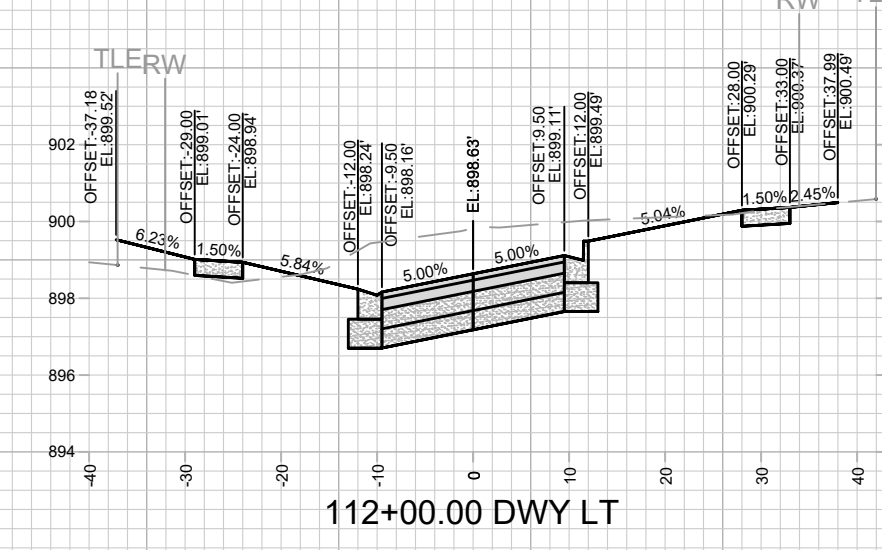
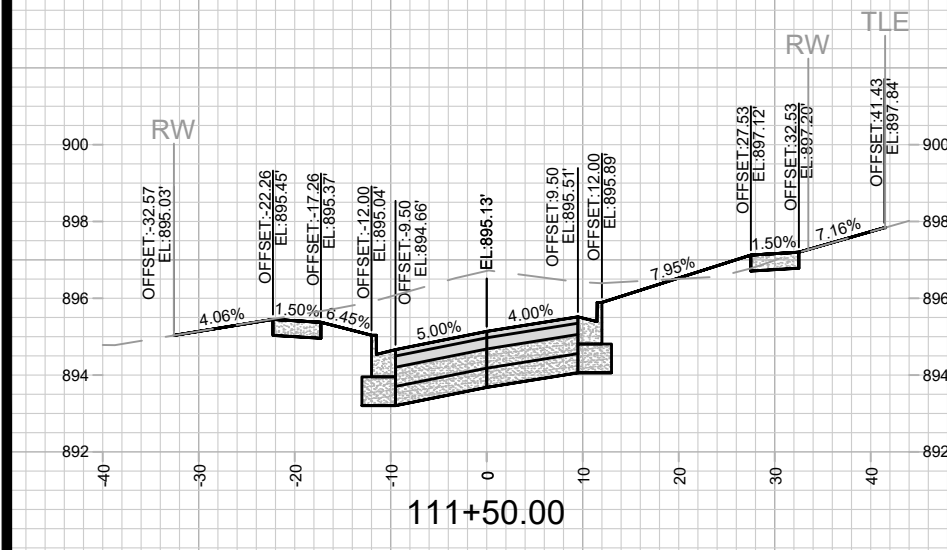
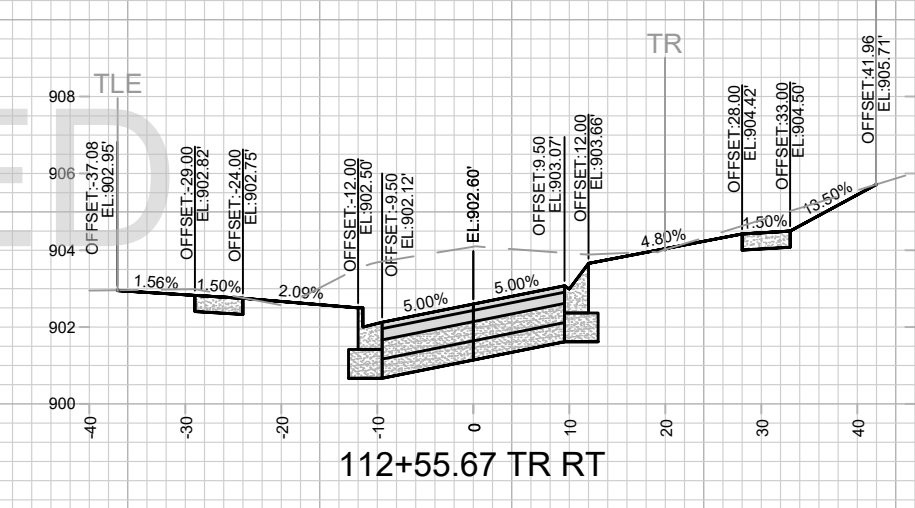
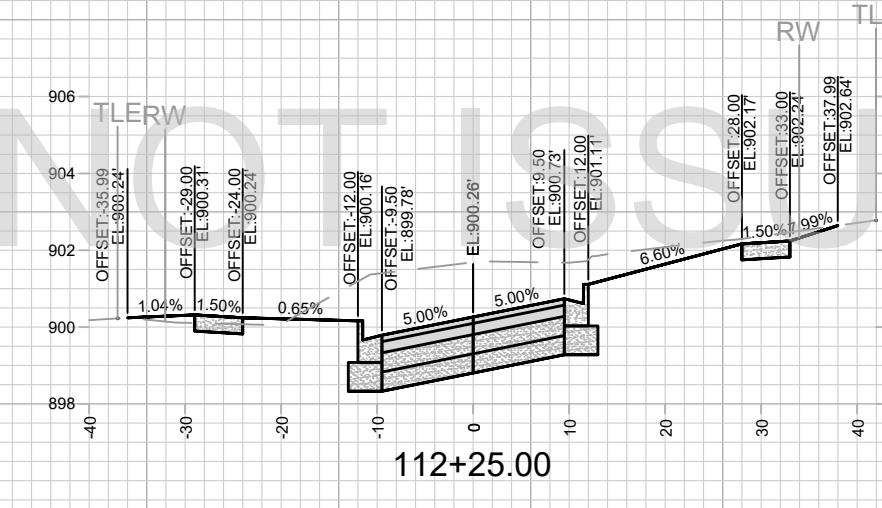
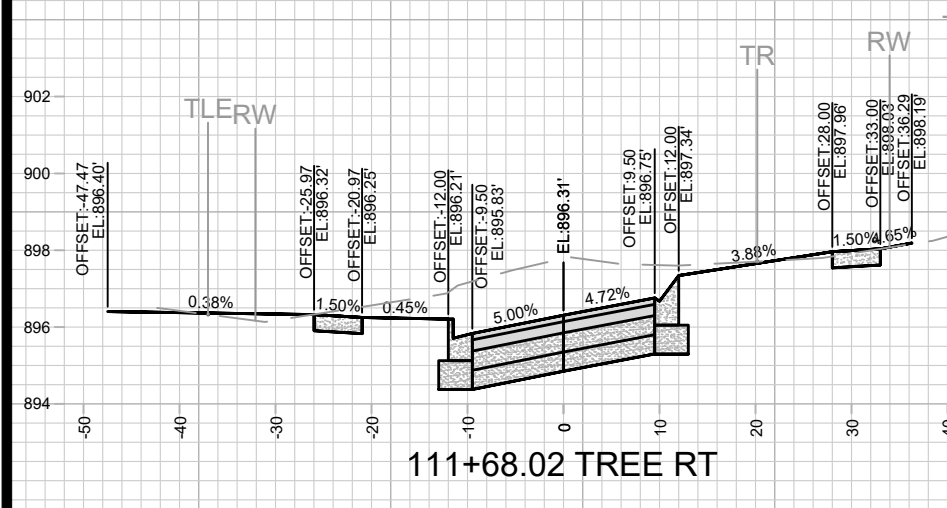
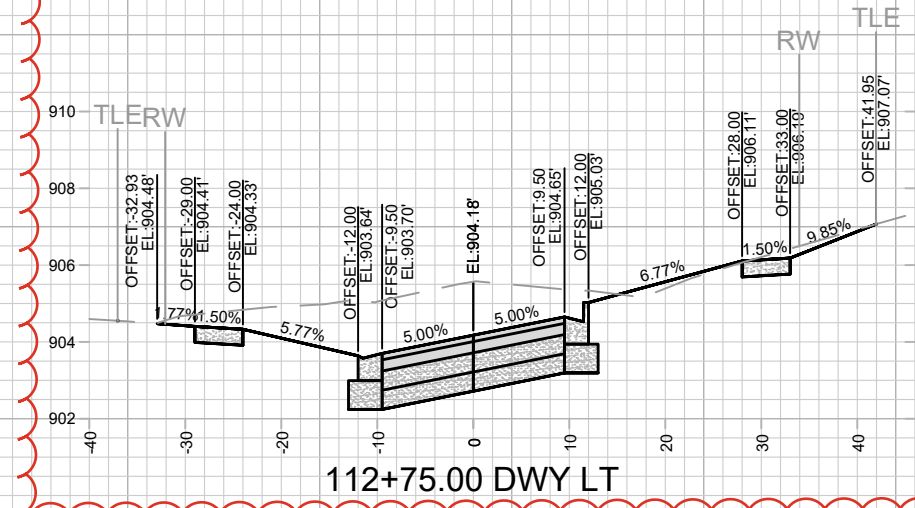
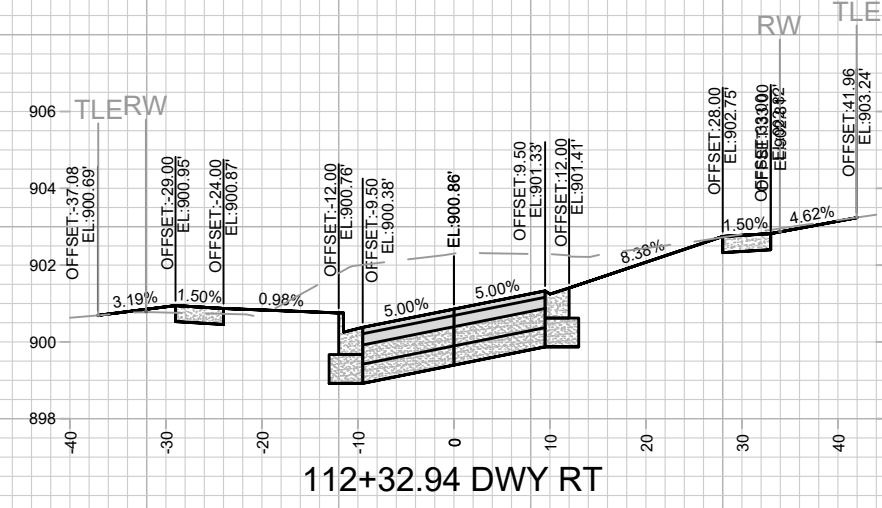
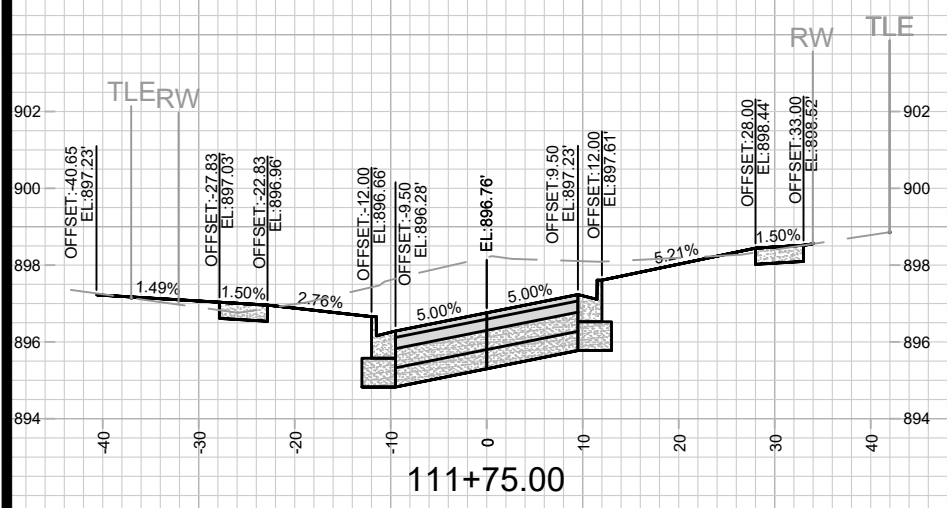
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13812	Designed By: AJZ	Date: 5/30/2024 3:17 PM	Scale: 1" = 20'

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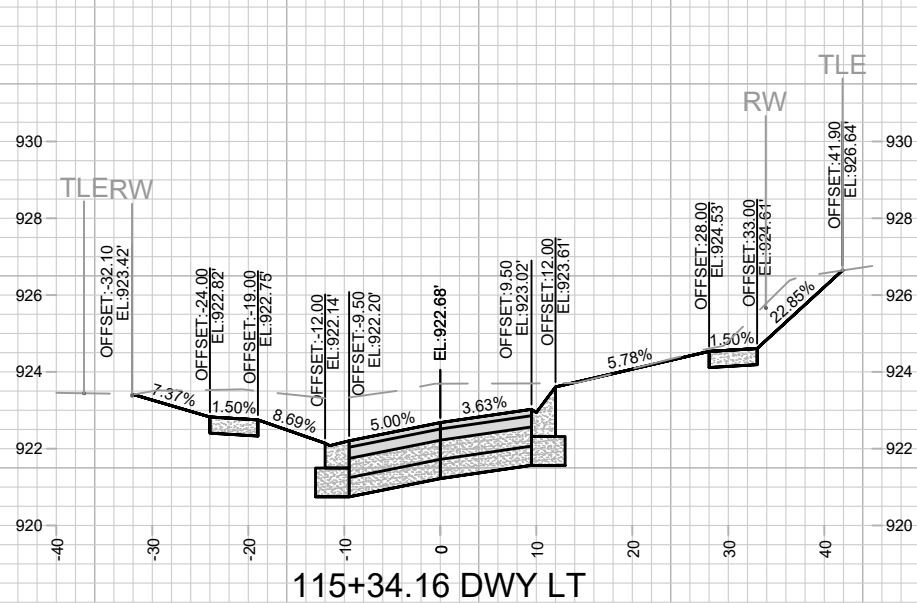
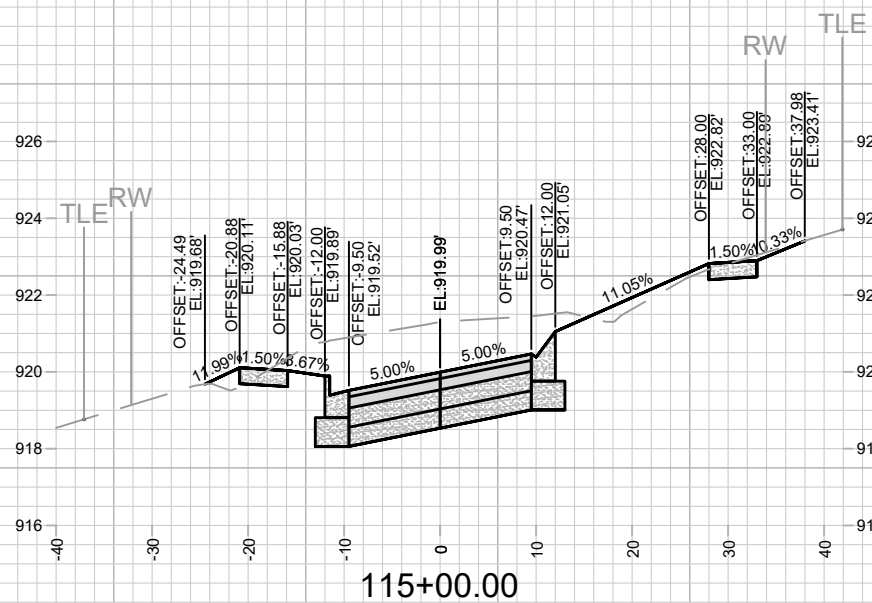
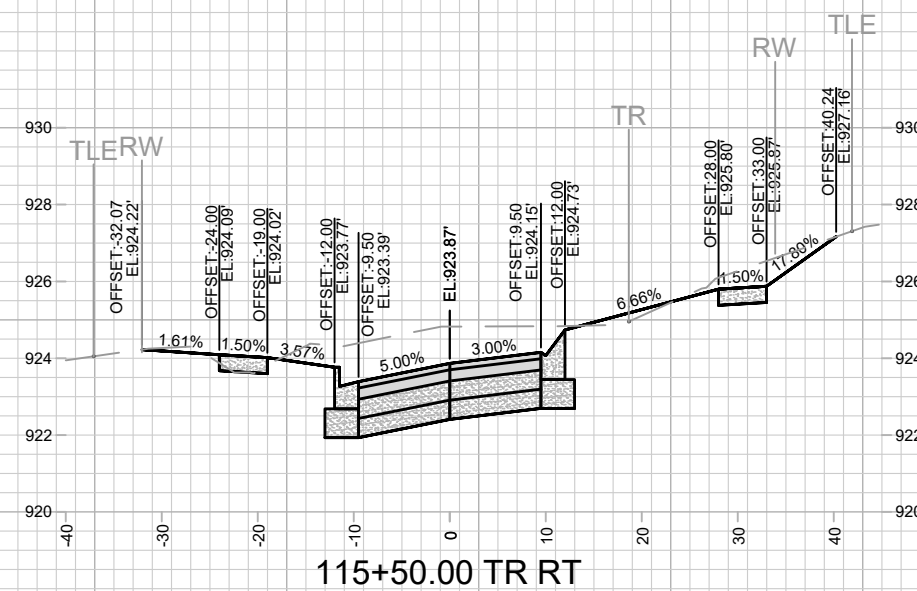
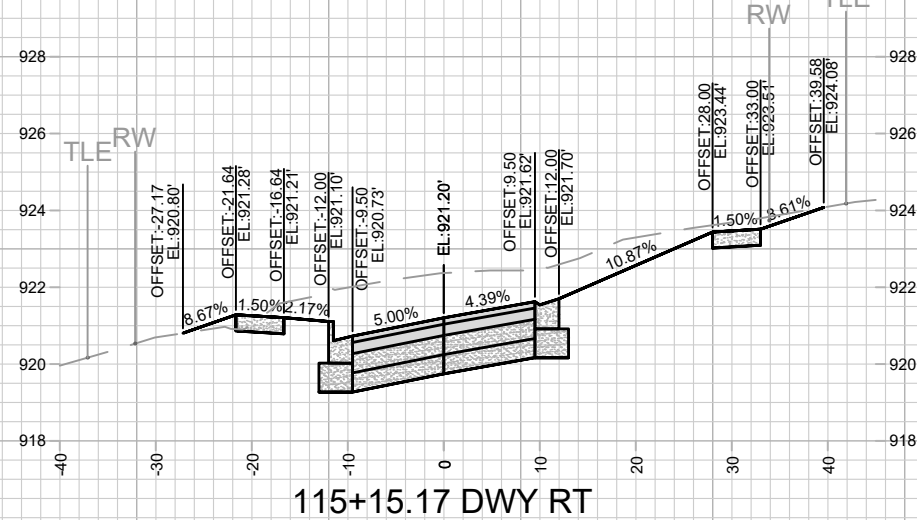
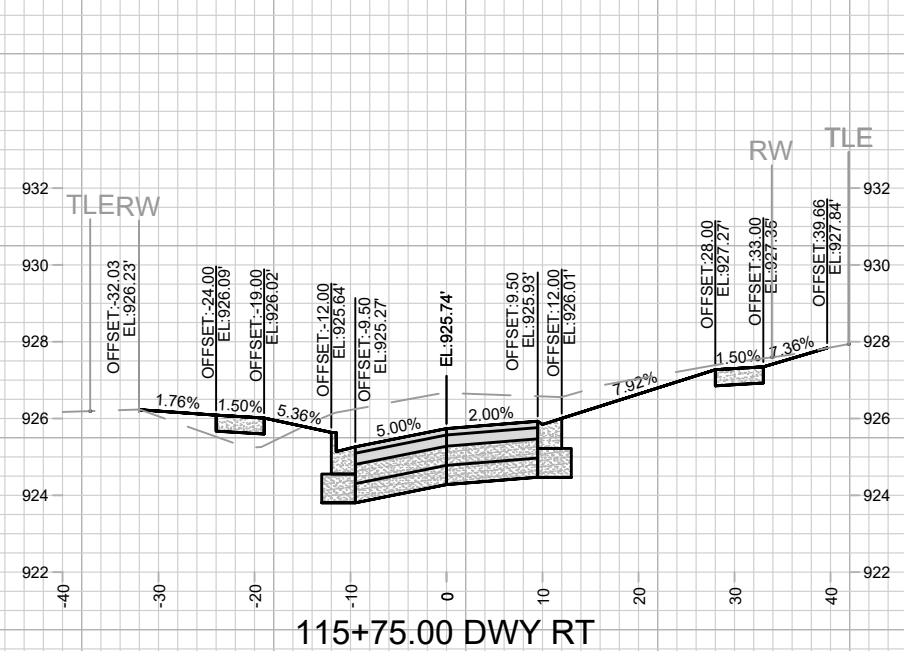
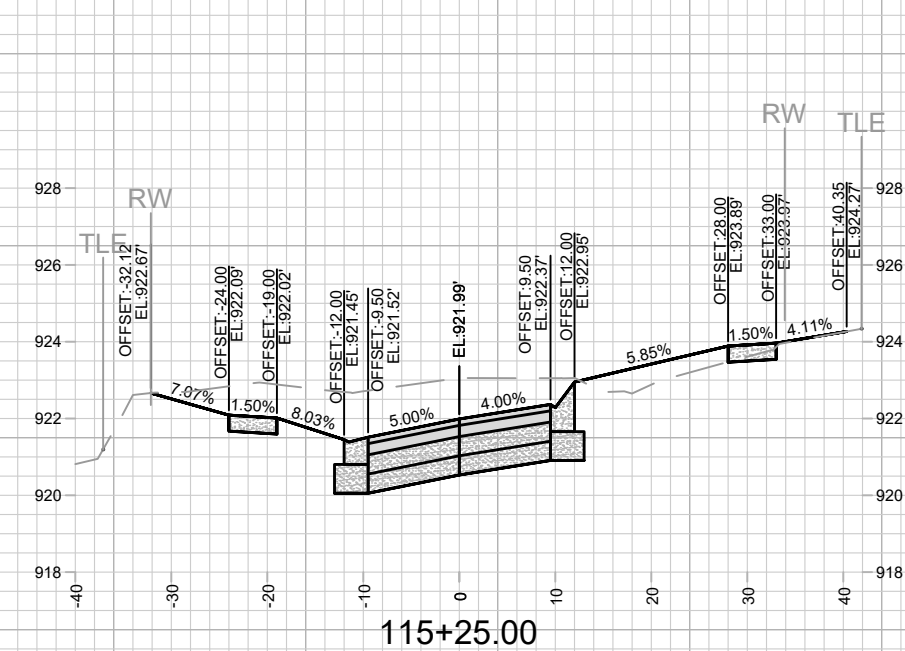


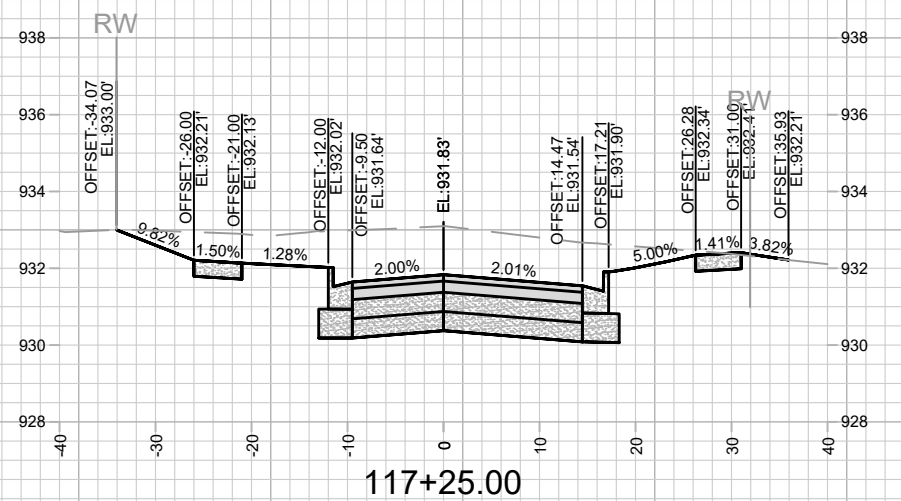
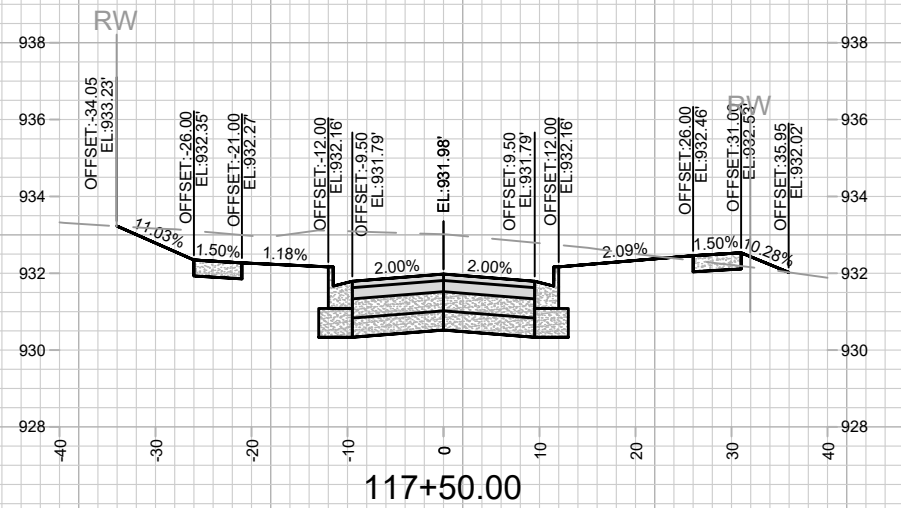
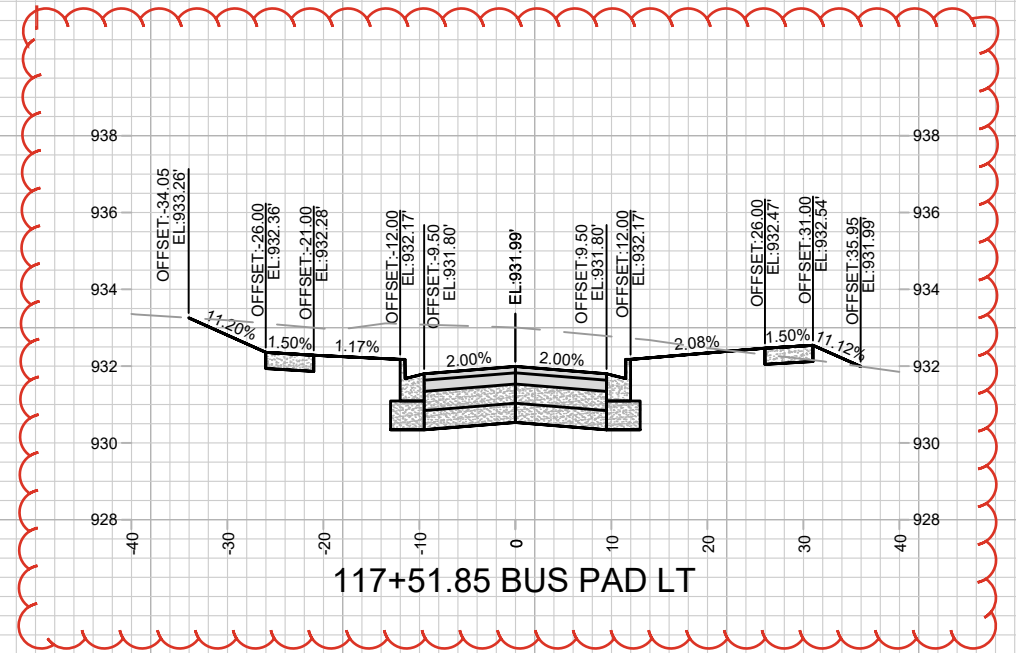
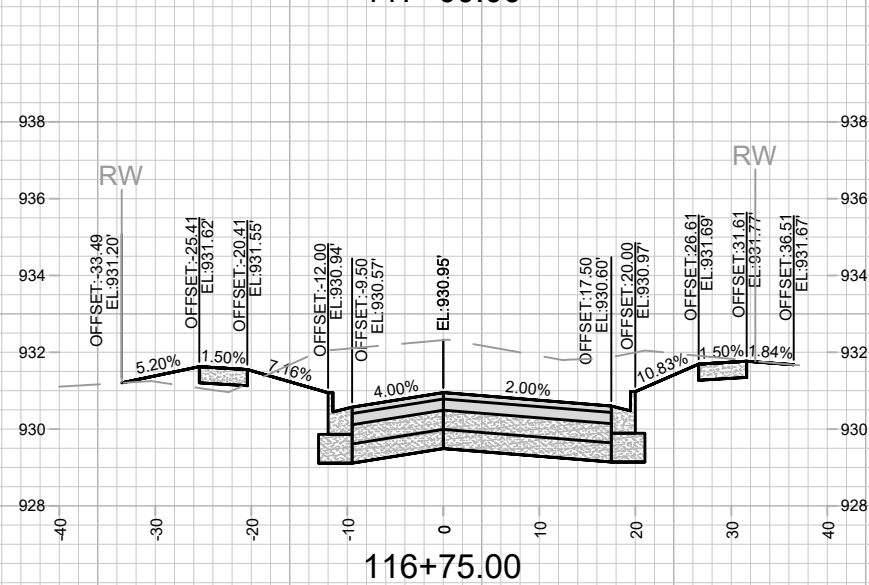
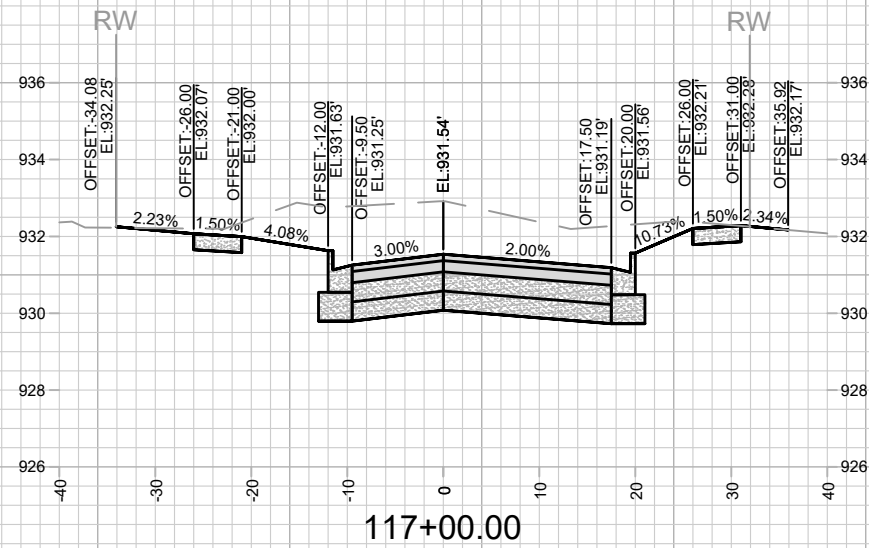
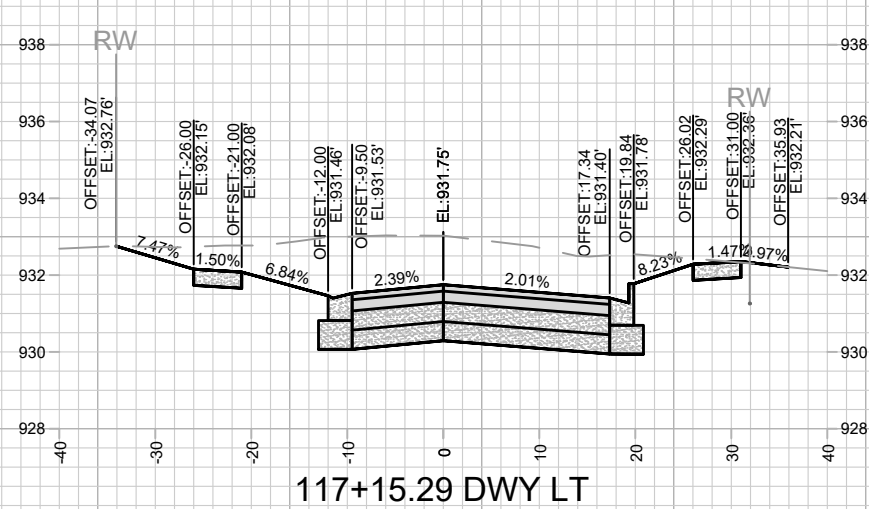
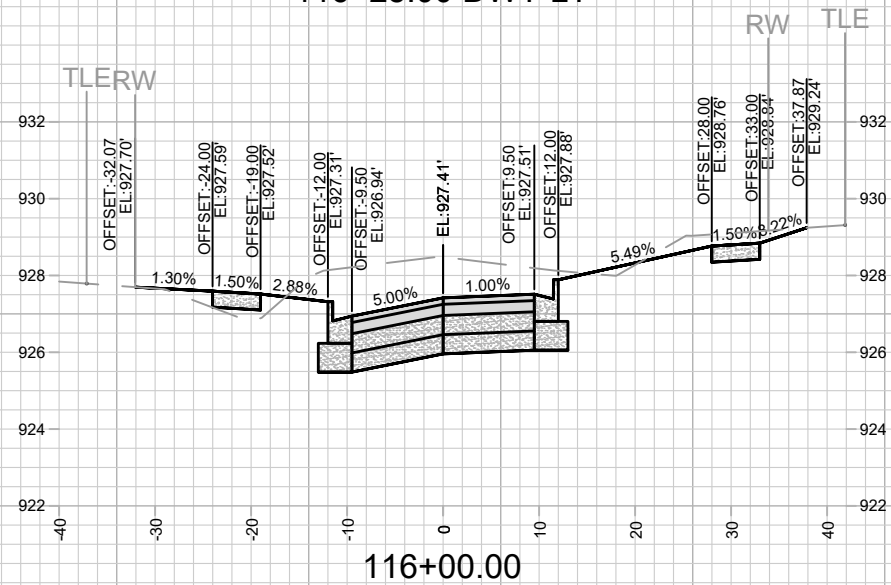
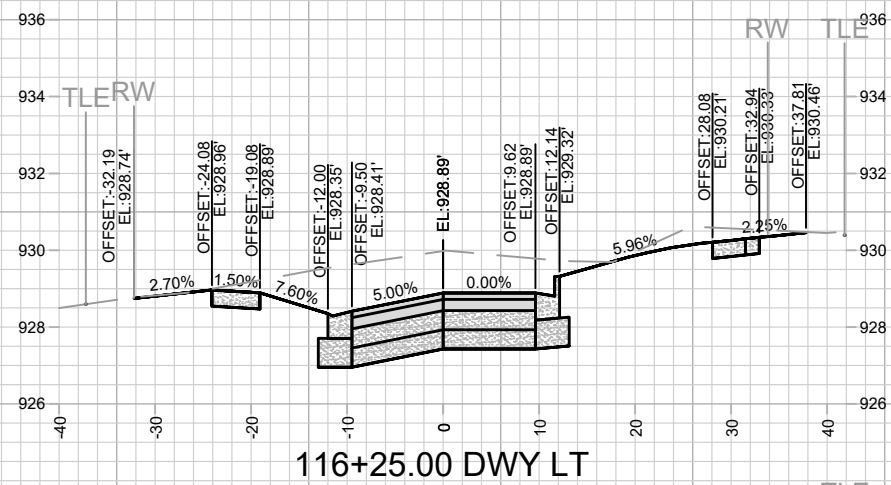
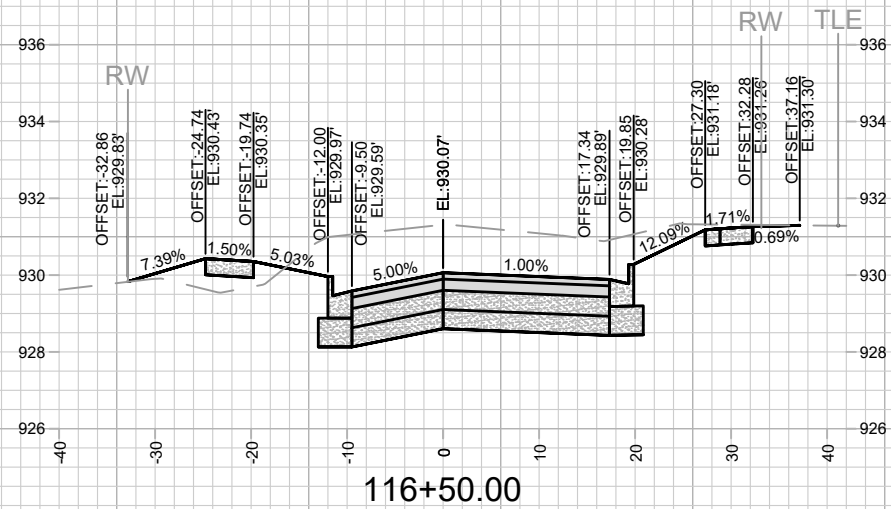
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REV4	REVISE PROFILE & CROSS SLOPE	4/28/25	AJZ	DATE	BY
REV3	REVISE CROSS SLOPE	4/25/25	AJZ	DATE	BY
MARK	REVISION	13812	Scale: 1" = 20'	Designed By: AJZ	13812
MARK	REVISION	13812	Scale: 1" = 20'	Designed By: AJZ	13812

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MADISON, WI
CONTRACT NO: 8635
KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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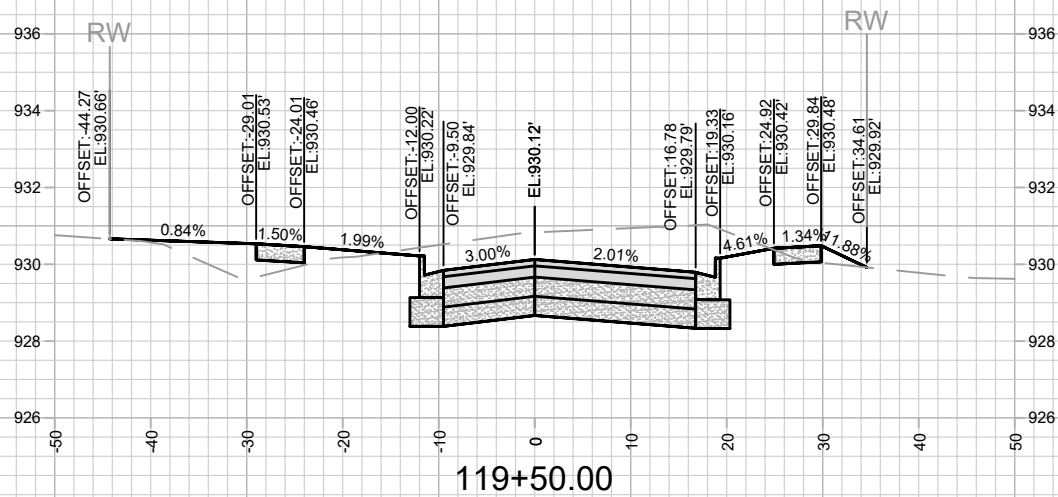
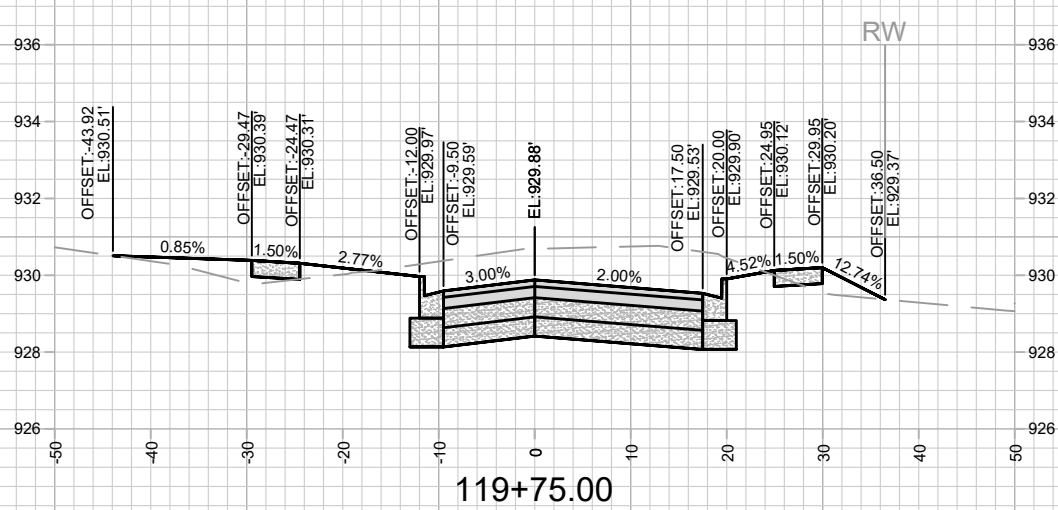
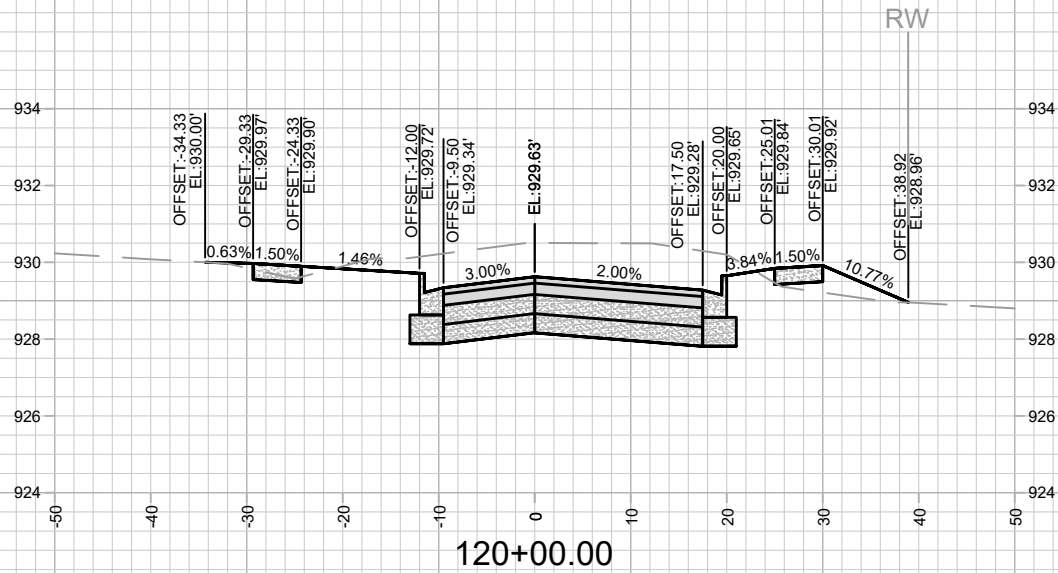
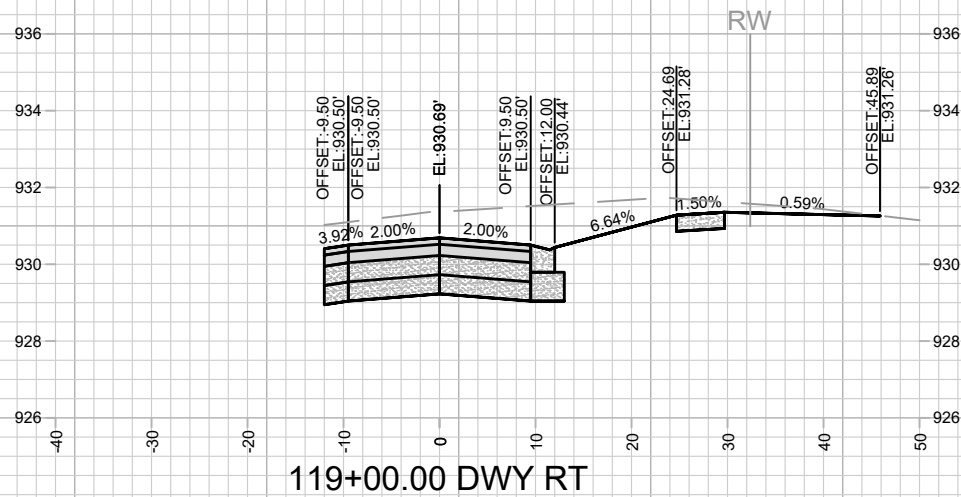
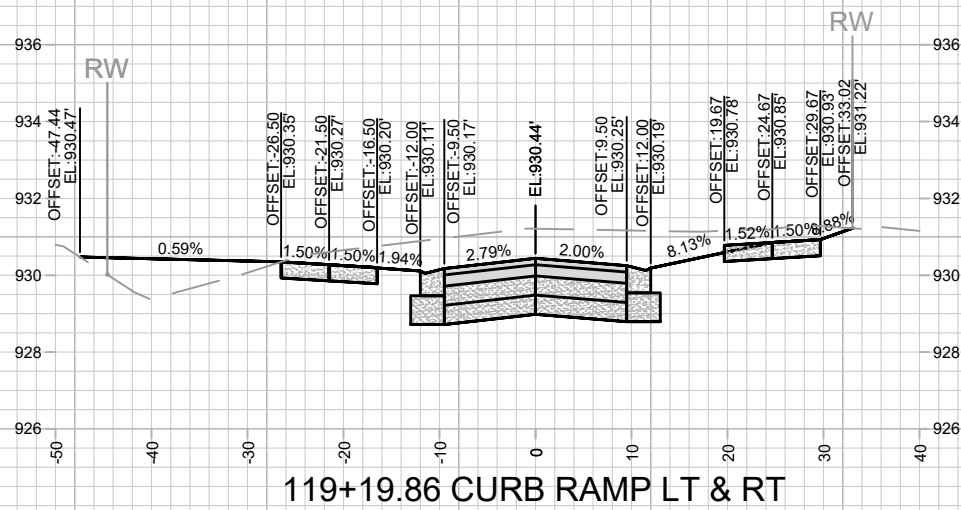
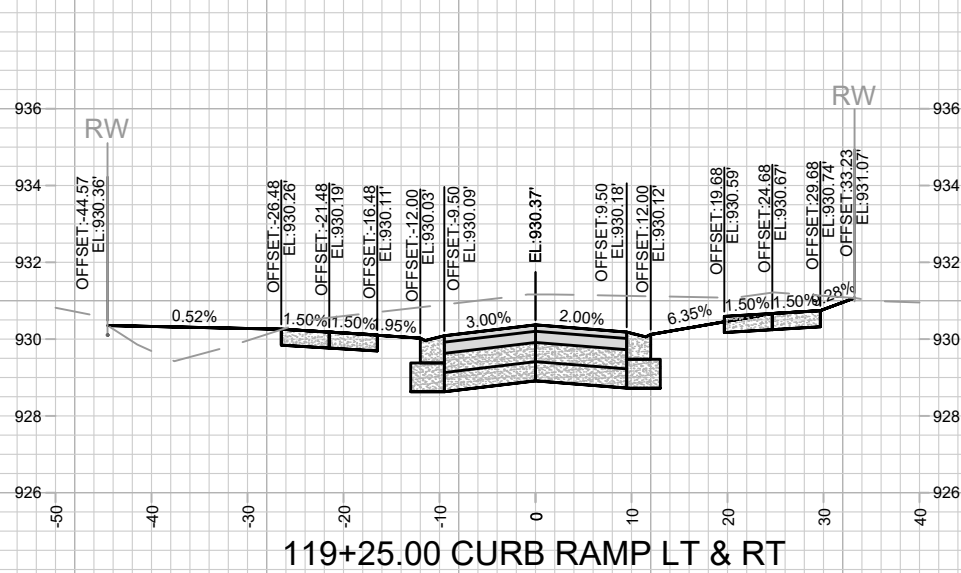
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X-8

KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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MADISON, WI
CONTRACT NO: 8635

REVZ	DATE	BY
2/28/25	AJZ	BY
UPDATE PUS PADS		
MARK	REVISION	DATE
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Designed By: AJZ		X-8

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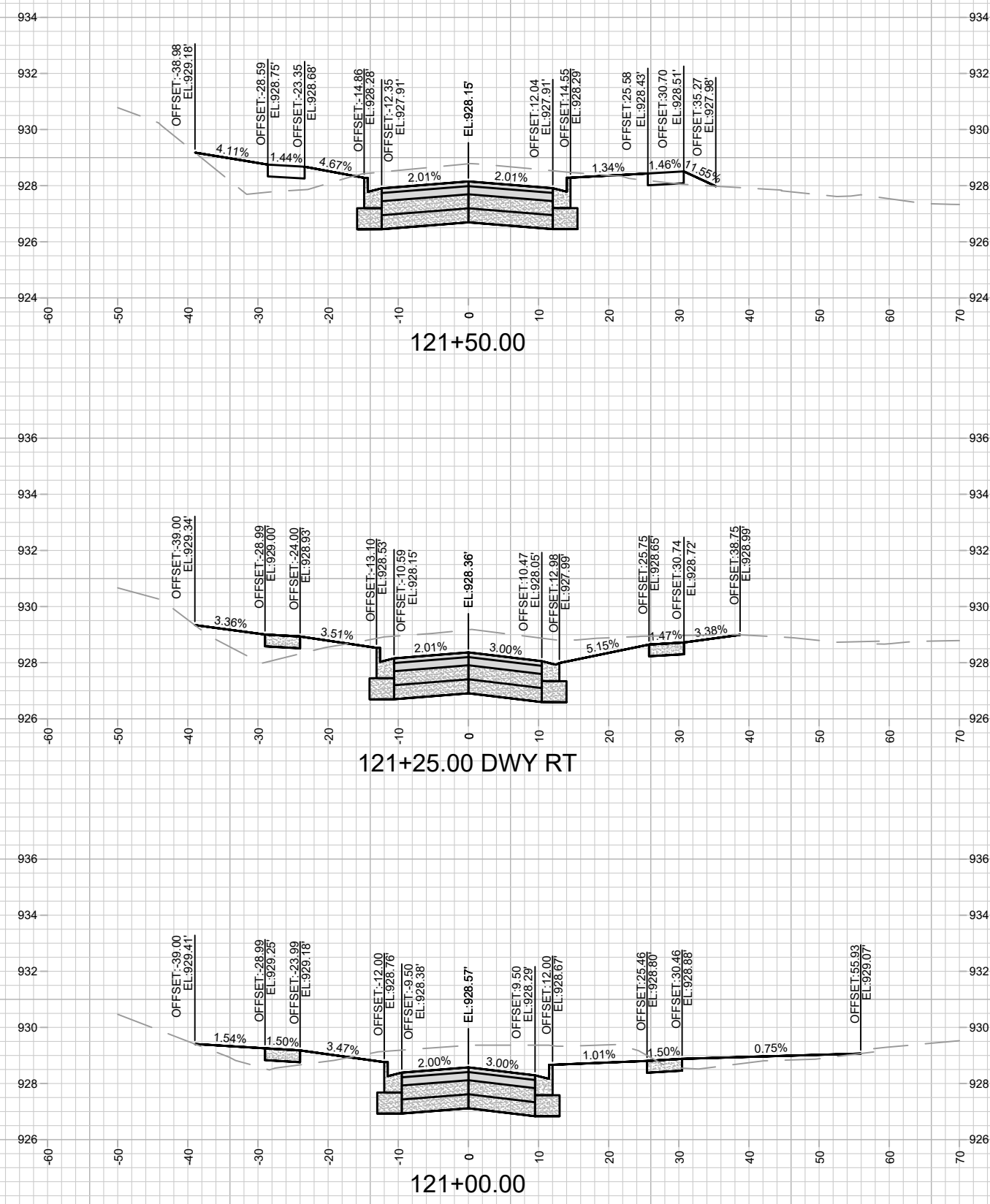
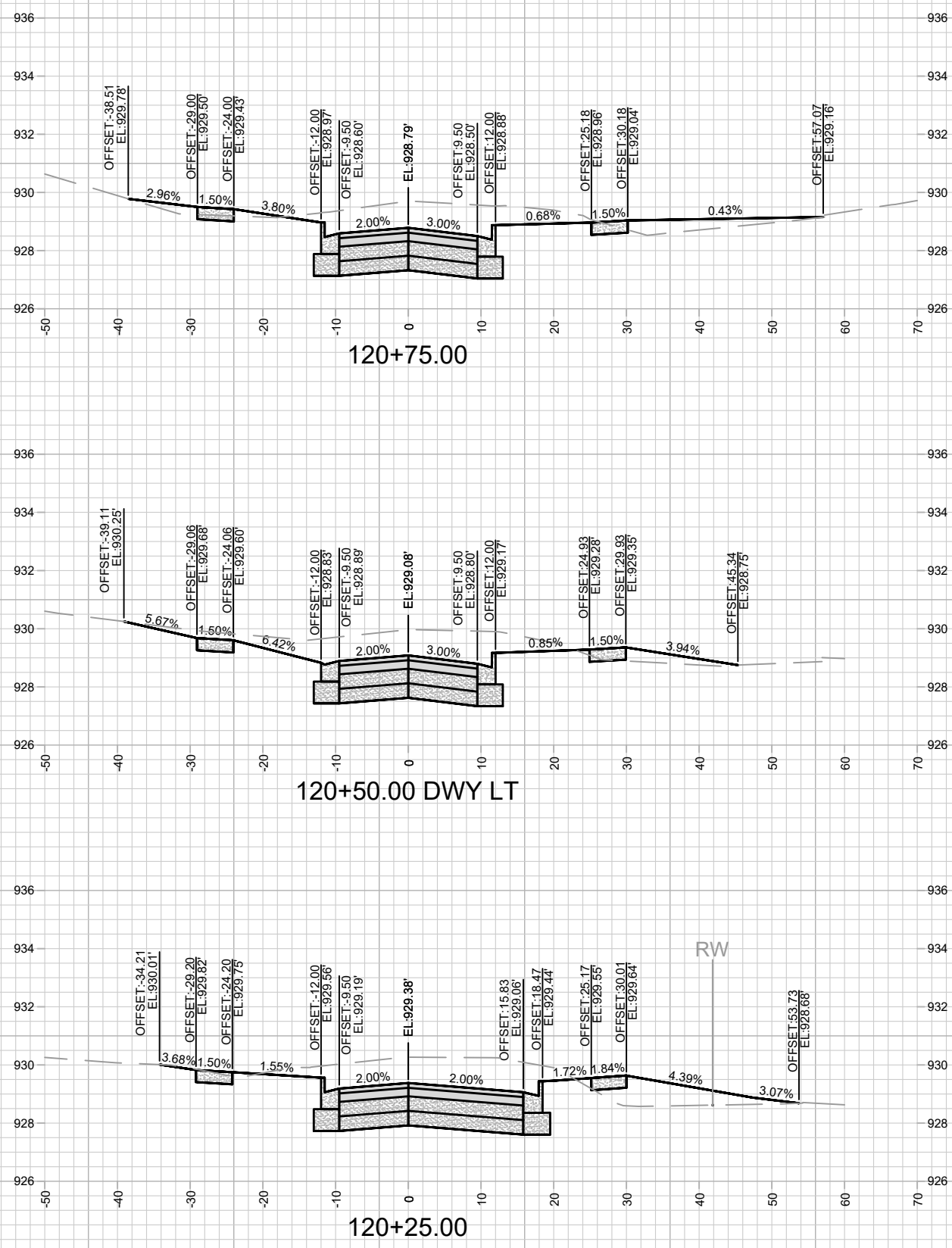
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KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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MADISON, WI
CONTRACT NO: 8635

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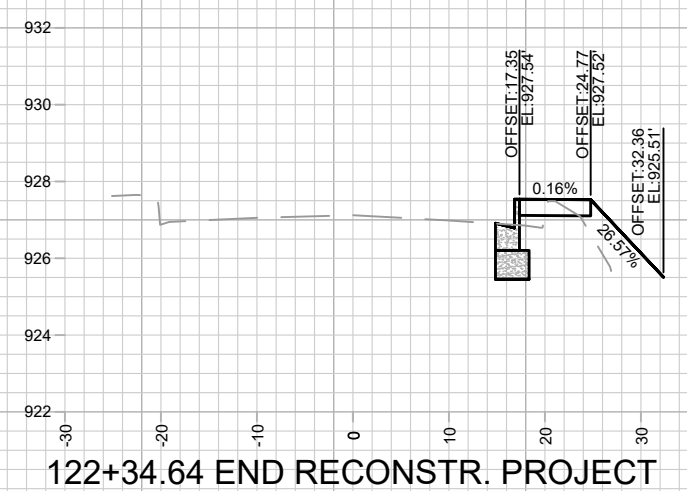
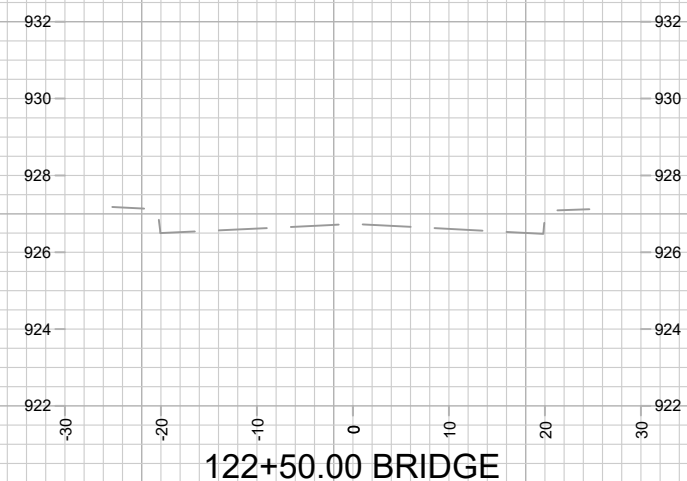
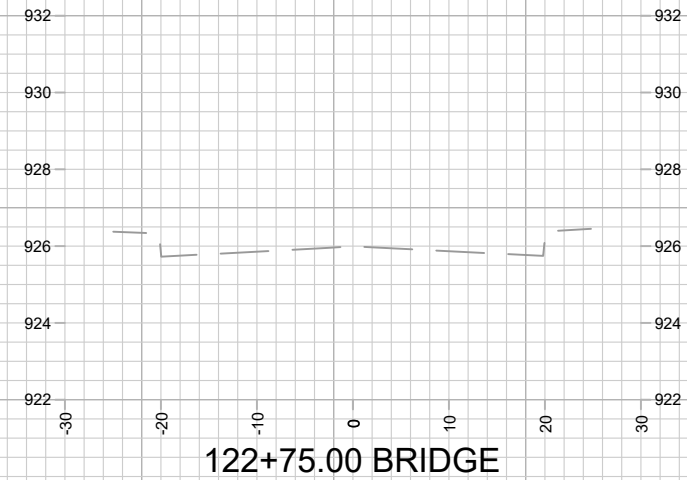
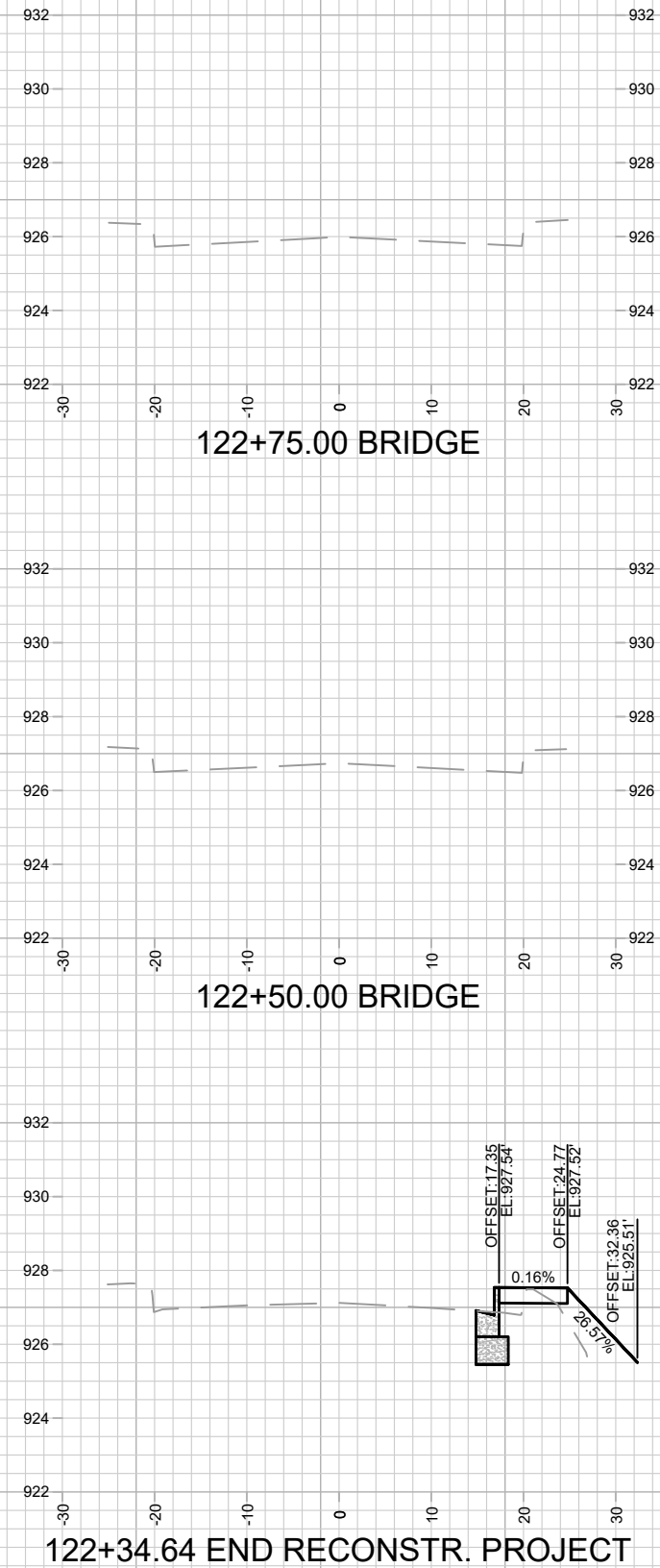
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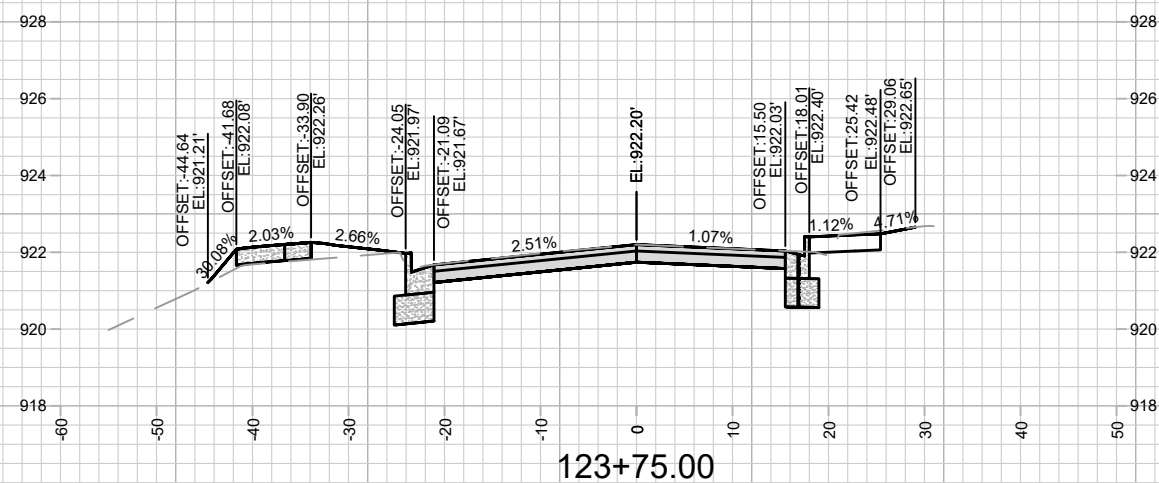
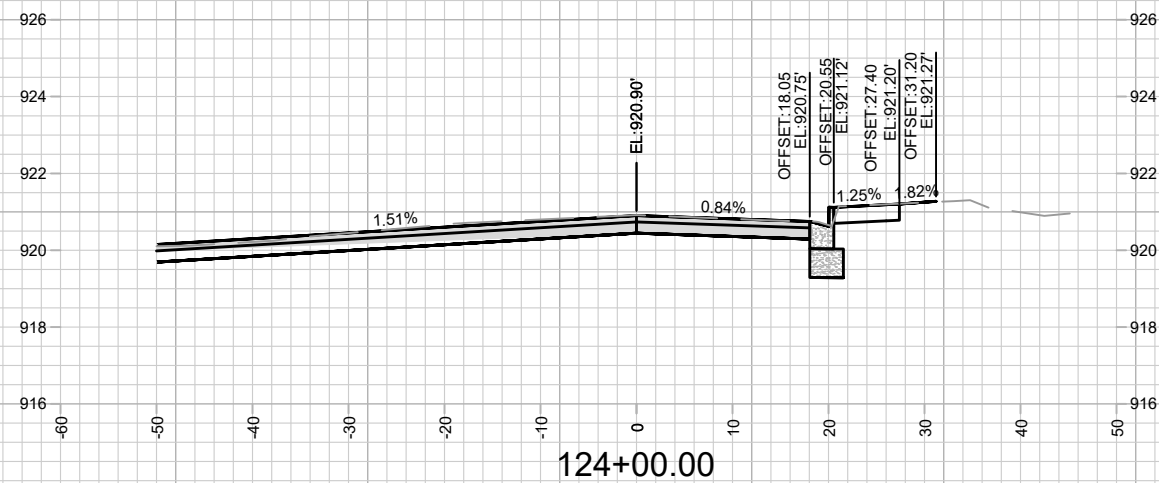
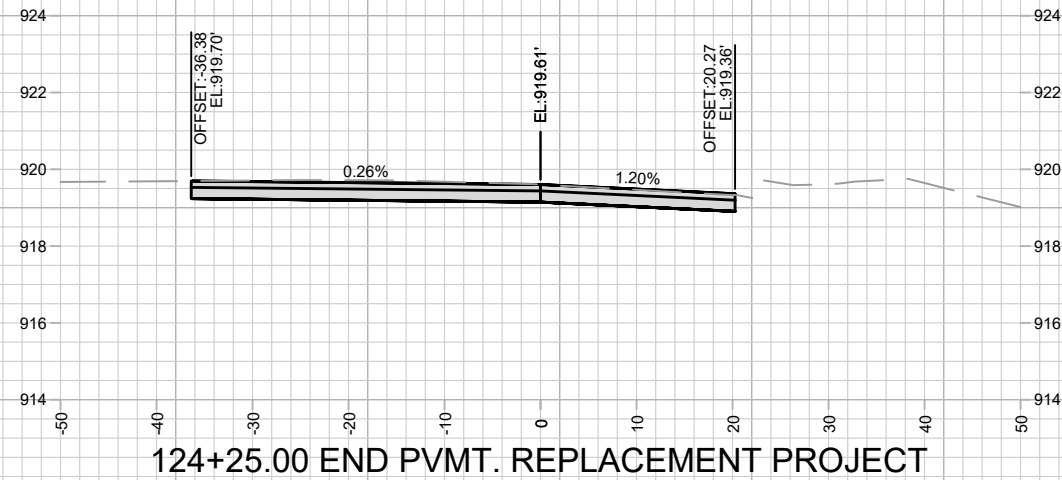
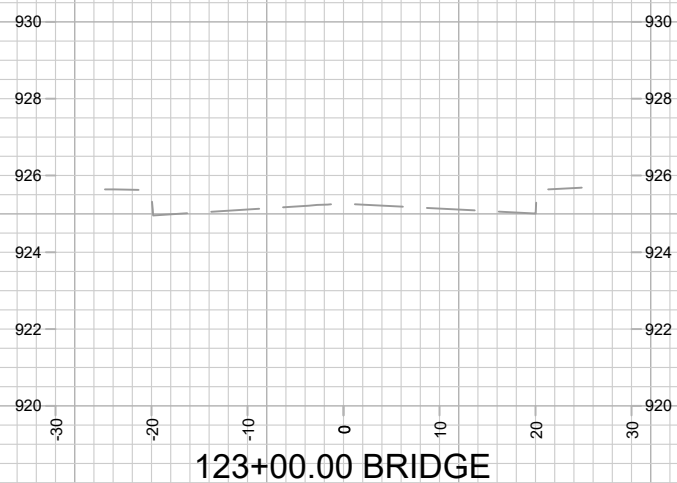
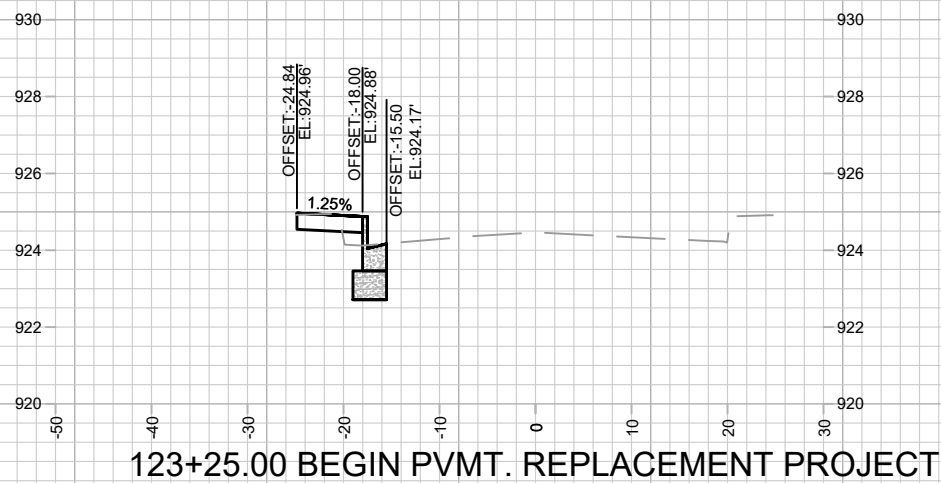
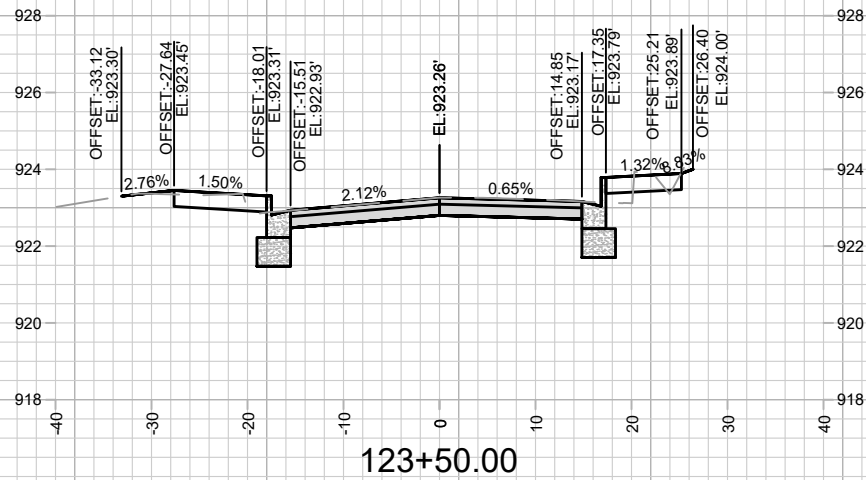
KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

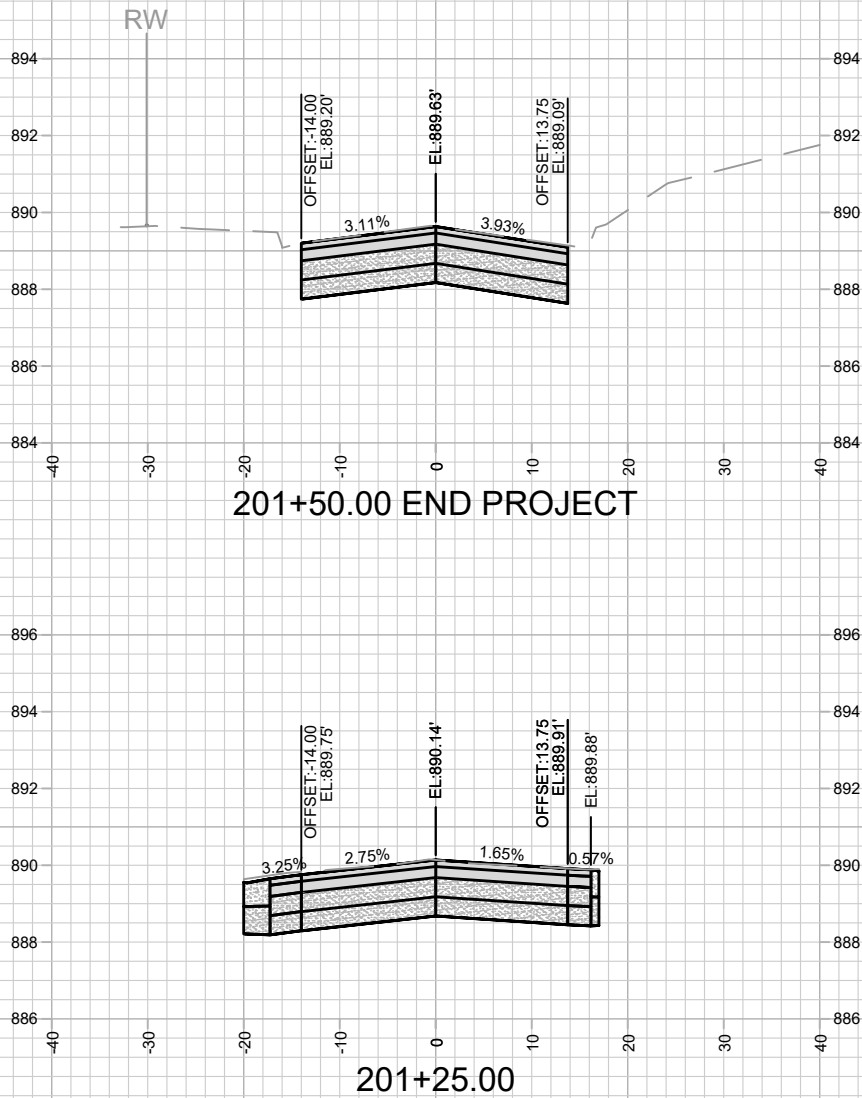
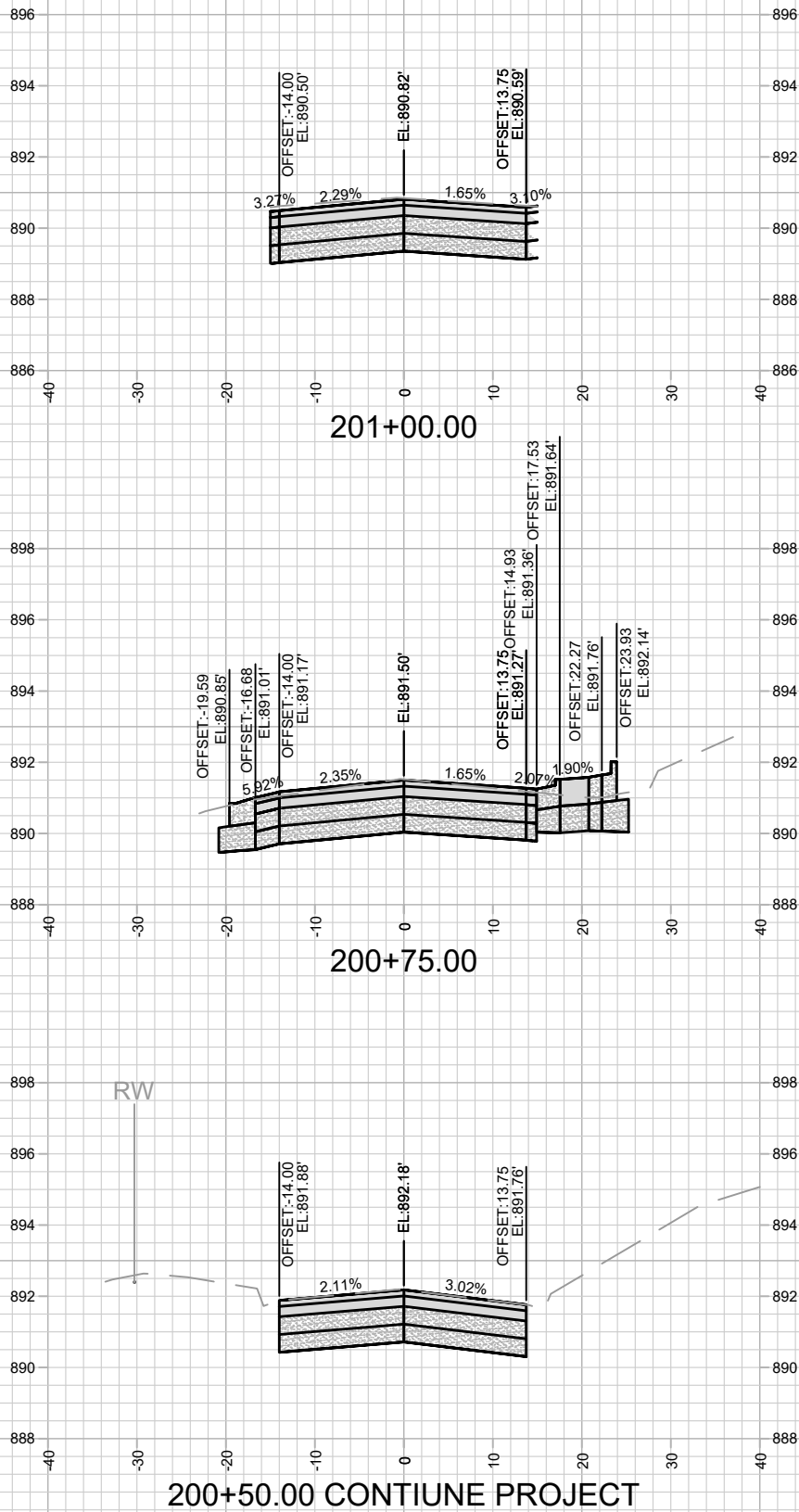
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MADISON, WI

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13812	Designed By: AJZ	Date: 5/30/2024 3:19 PM	X-11









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GREEN AVENUE RECONSTRUCTION CROSS SECTIONS

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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MADISON, WI

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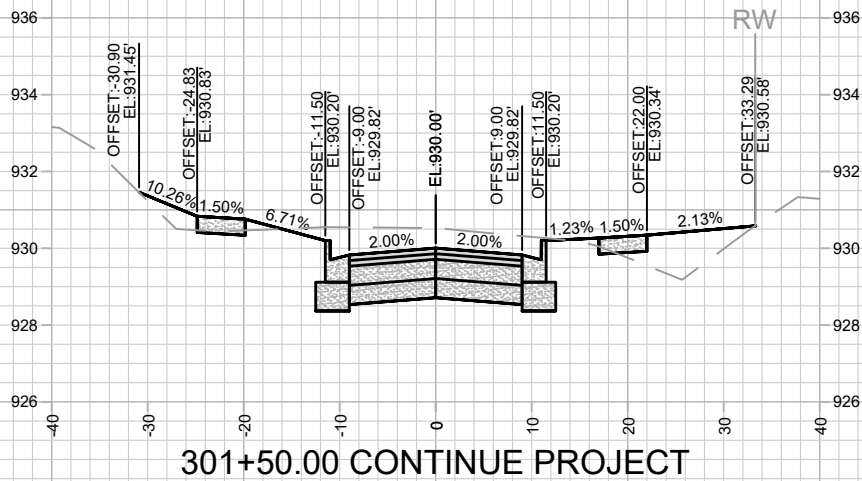
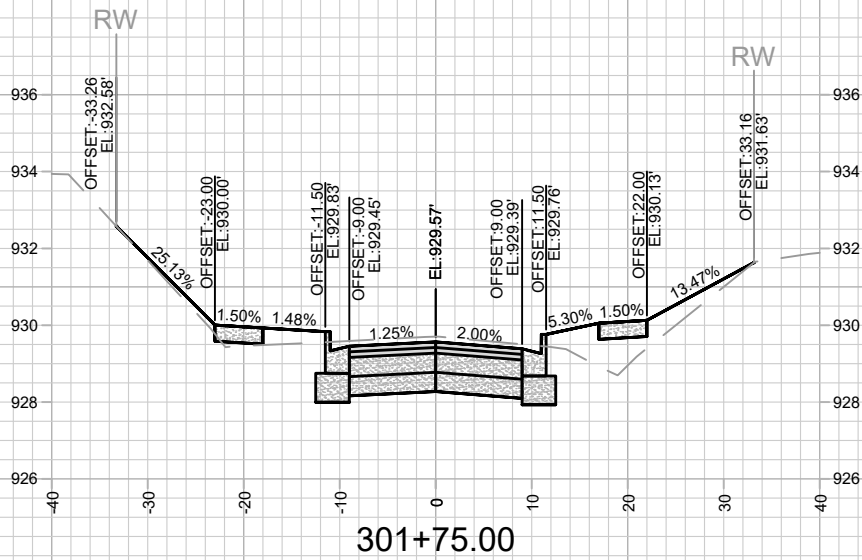
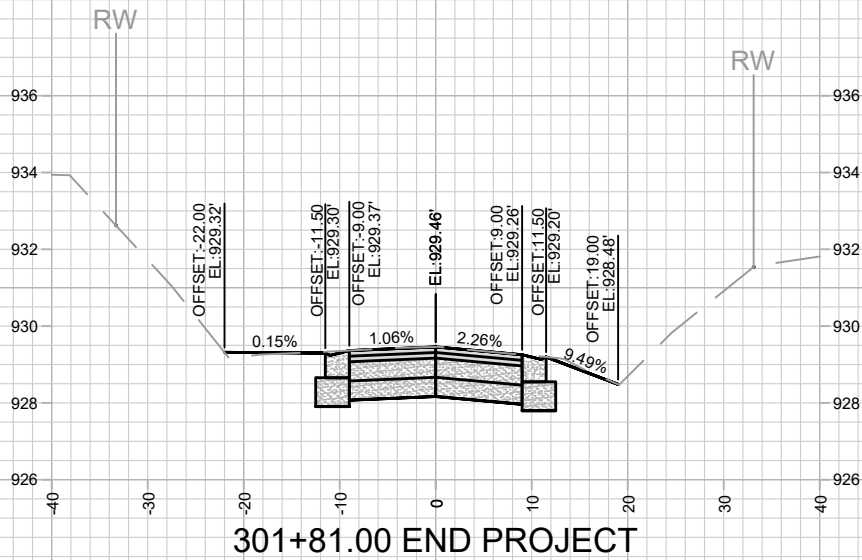
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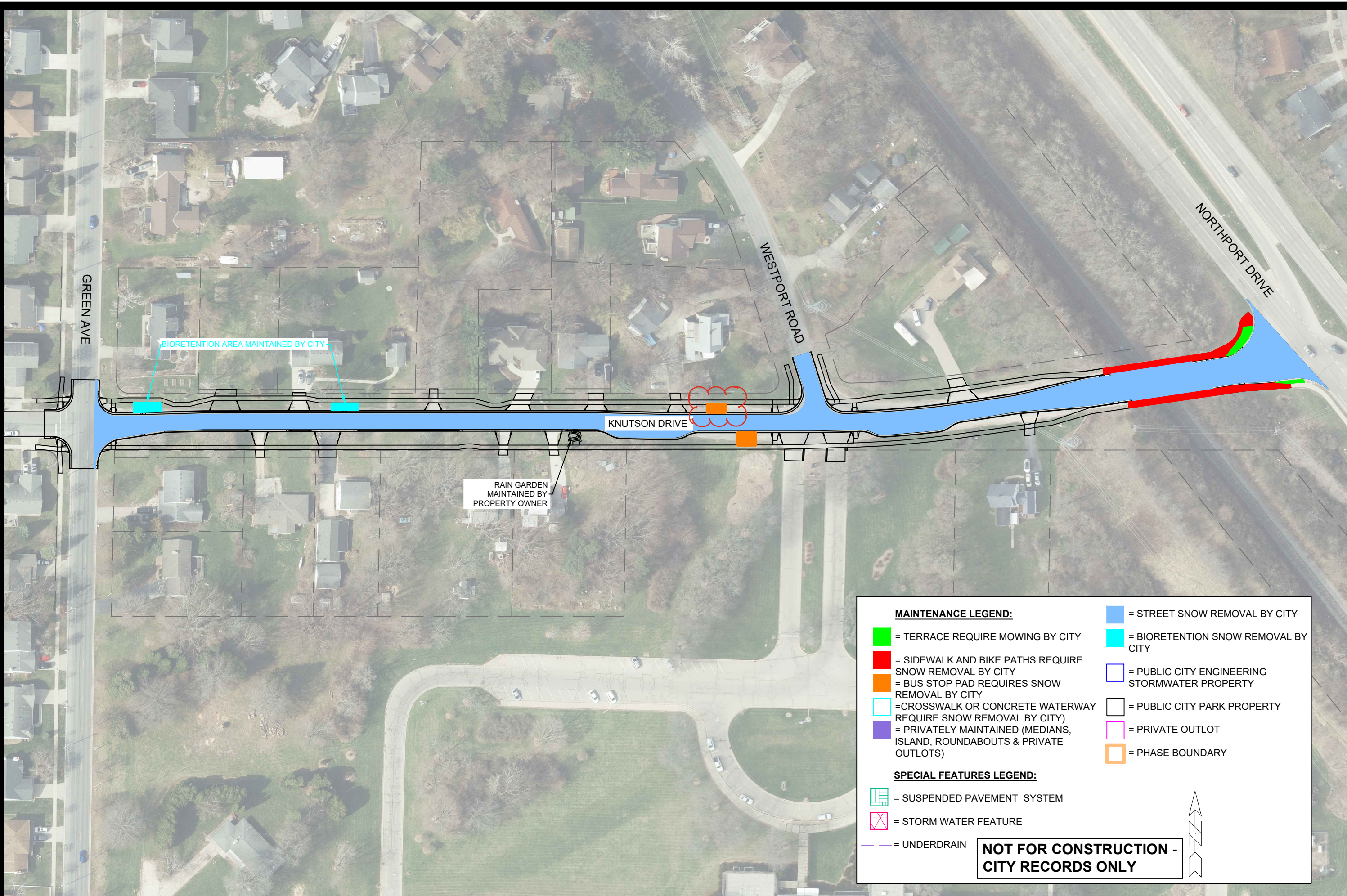
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MADISON, WI

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KNUTSON DRIVE MAINTANENCE PLAN

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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REVZ

UPDATE BUS PADS

2/28/25

AJZ

DATE

BY

MARK

REVISION

Date: 3/10/2025 10:03 AM

Scale: 1" = 100'

13812

MN-1

CONTRACT NO: 8635

CITY OF MADISON

WISCONSIN