



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 5, 2023

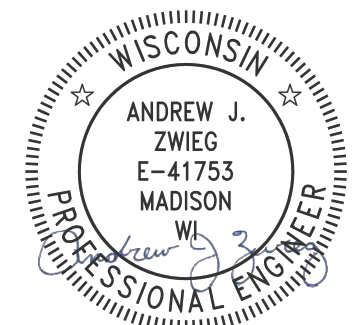
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Chris Potykowski May 31, 2024

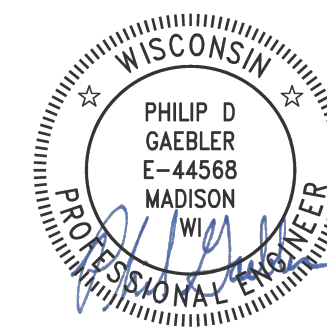
City Engineer Date

STREET DESIGNED BY:



May 31, 2024

GREEN INFRASTRUCTURE DESIGNED BY:



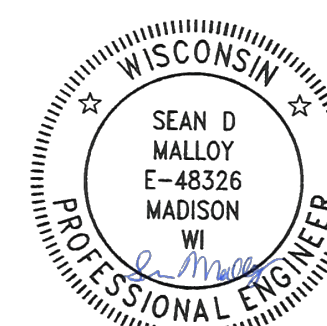
May 31, 2024

SANITARY SEWER DESIGNED BY:



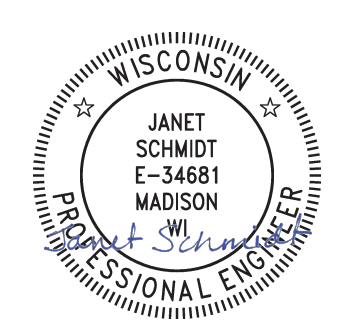
May 31, 2024

PAVEMENT MARKING DESIGNED BY:



May 31, 2024

STORM SEWER DESIGNED BY:



May 31, 2024

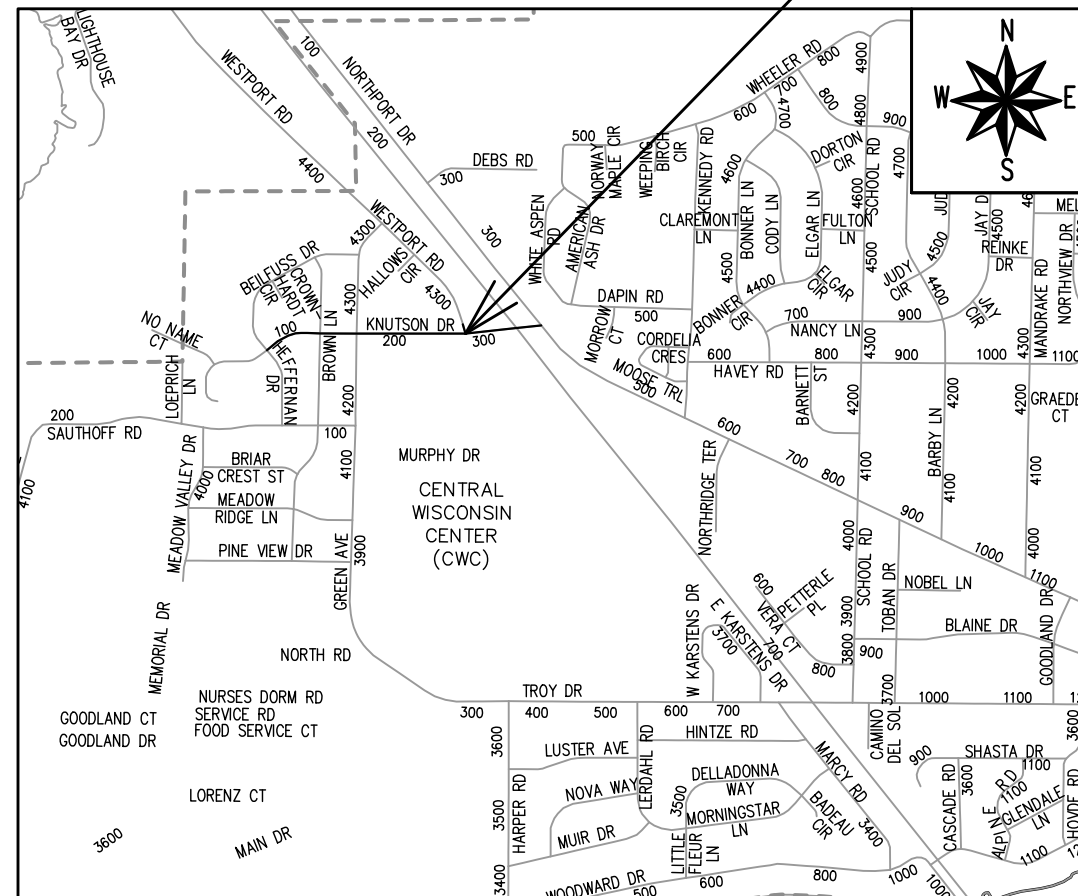
INDEX OF SHEETS

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SHEET NO. D2	CURB AND GUTTER DETAIL
SHEET NO. D3	TERRACE EXCAVATION FOR TREE PLANTING
SHEET NO. D4	SIGN DETAIL
SHEET NO. EC1-EC4	EROSION CONTROL PLANS
SHEET NO. G11-G13	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. S1-S5	STRUCTURE PLANS
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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



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.

CONVENTIONAL SIGNS

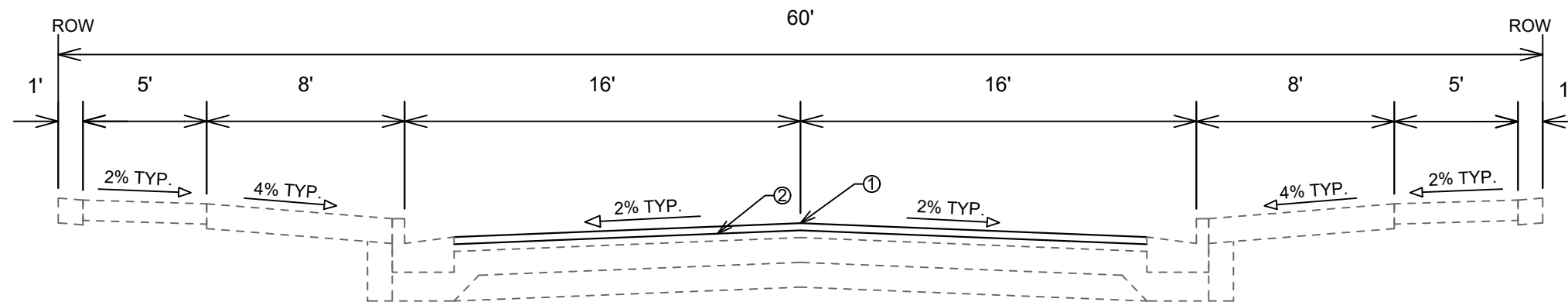
FIELD VERIFY ALL UTILITY LOCATIONS

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:

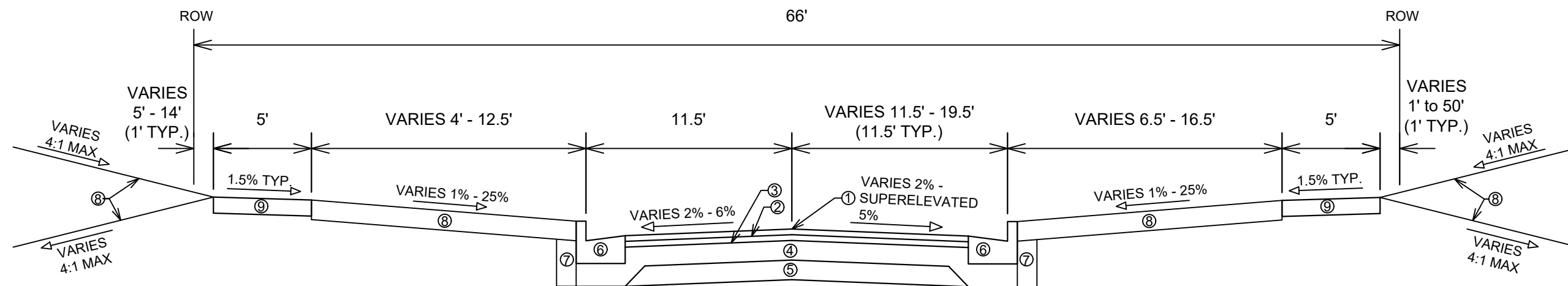
- ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.
- SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%.
- SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PLOT SCALE: 1 IN. = 1 FT. XREF PLOT NAME: --- REV. DATE: 5/30/2024 10:36 AM ORIGINATOR: CITY_OF_MADISON



**TYPICAL SECTION
KNUTSON DRIVE
STA 102+44.95 TO STA 109+83.71**

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



**TYPICAL SECTION
KNUTSON DRIVE
STA 109+83.71 TO STA 124+42.12***

- 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

SPECIAL NOTES:

- 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



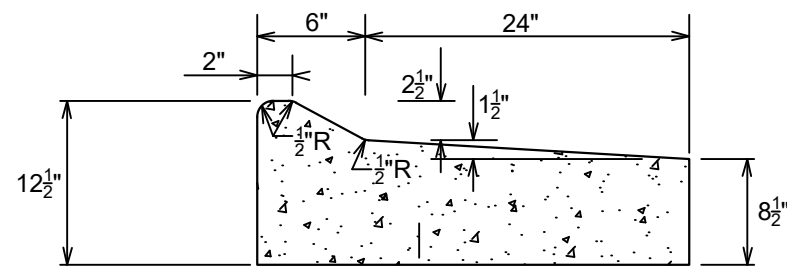
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REVISION	
Scale: NTS	D-1
Designed By: ALZ	13812

13812
MADISON, WI
8635
CONTRACT NO:

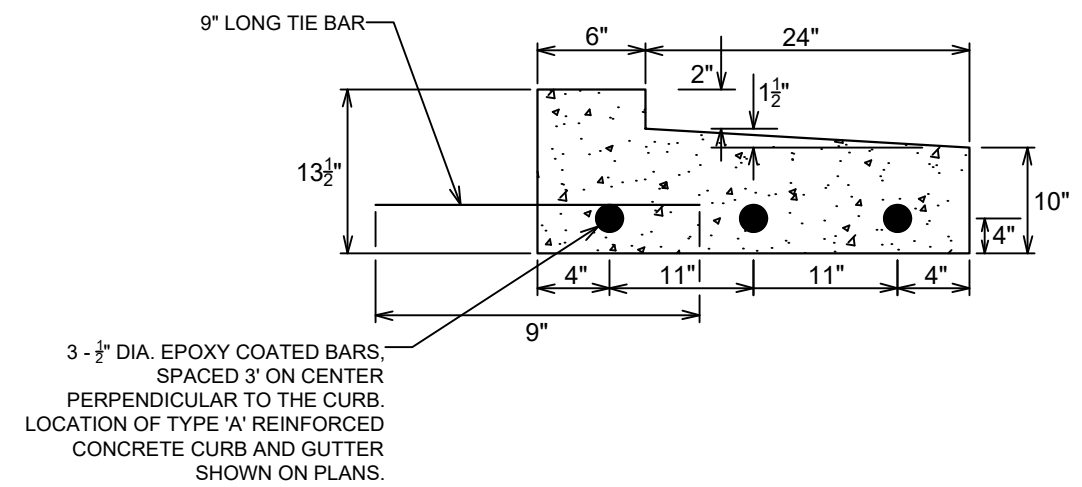
TYPICAL SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
D-1



REJECT TYPE 'A' MOUNTABLE CONCRETE CURB & GUTTER DETAIL



REJECT REINFORCED 2" CURB HEAD TYPE 'A' CONCRETE CURB & GUTTER DETAIL

MARK	REVISION	DATE	BY
13812	Date: 5/01/2024 3:13 PM		
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13812
MADISON, WI
8635
CONTRACT NO:

CURB AND GUTTER DETAILS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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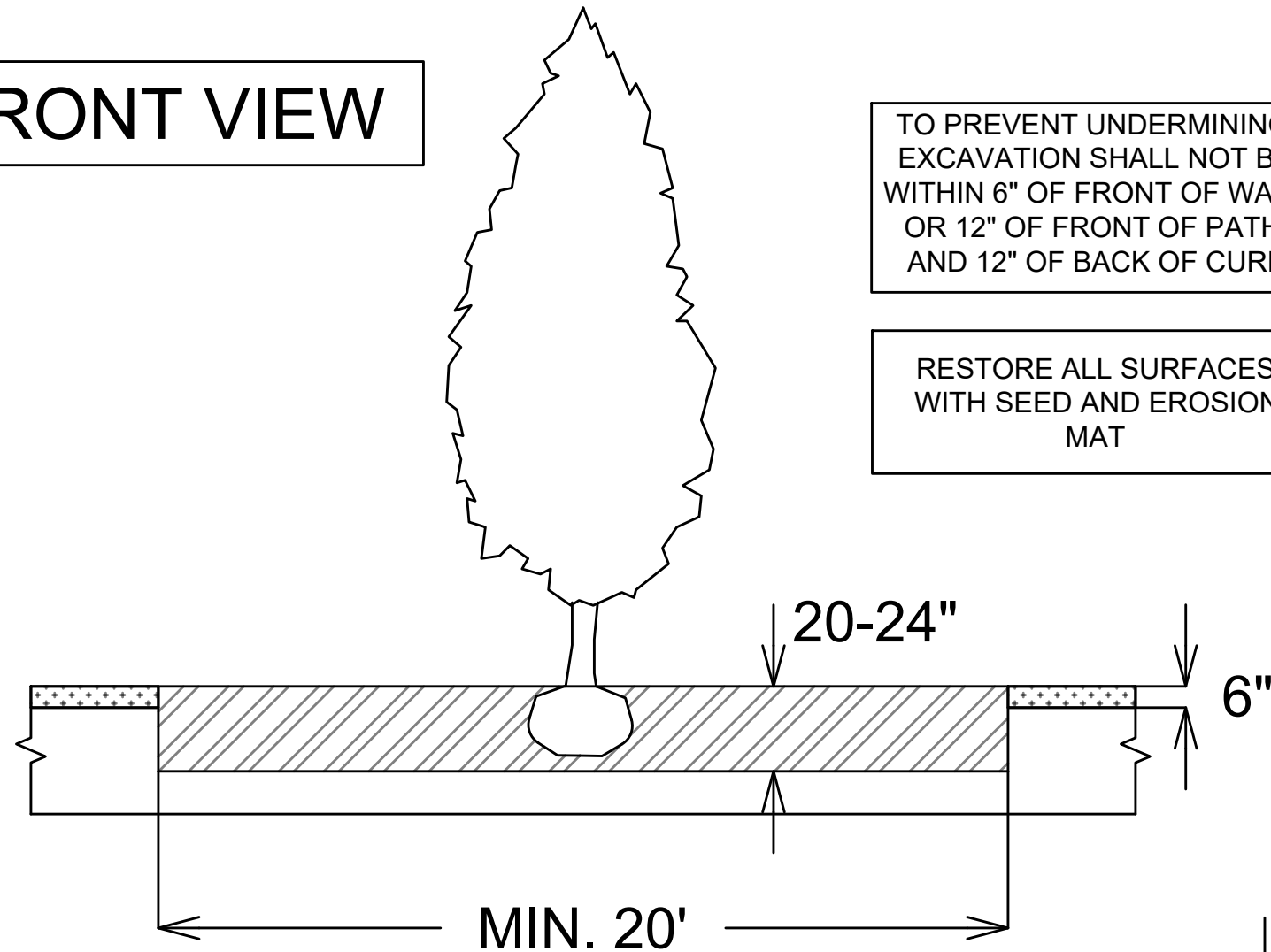


13812
D-2

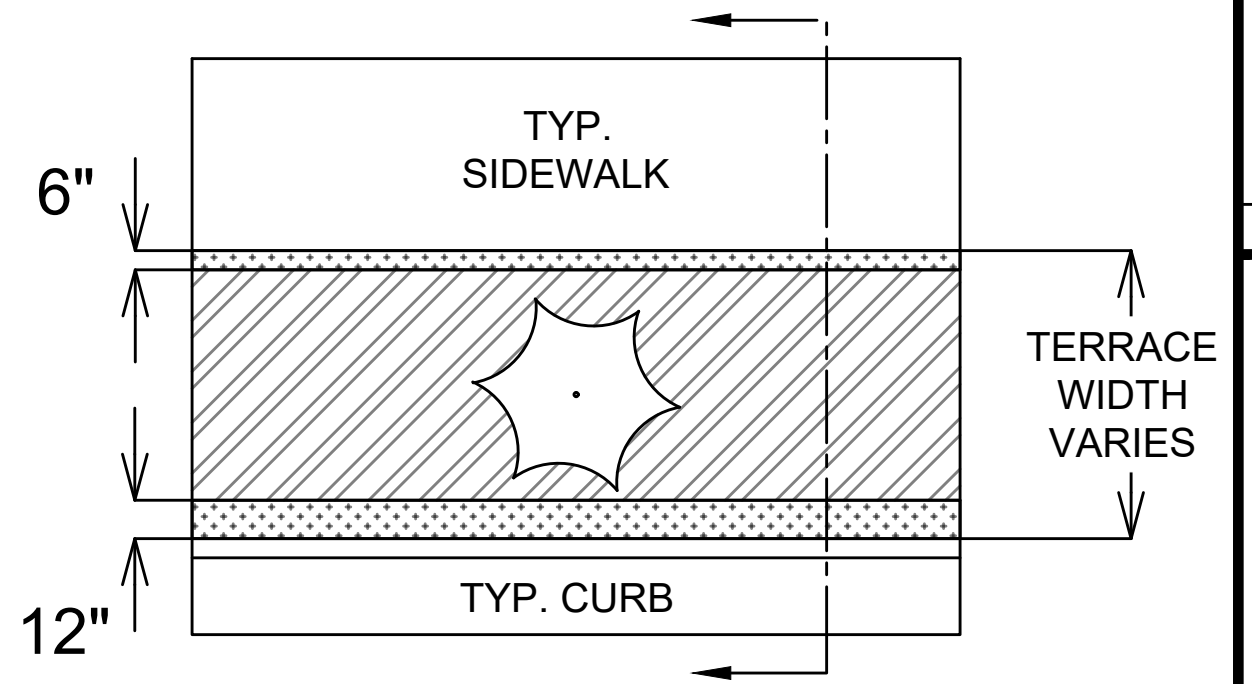
TERRACE EXCAVATION FOR TREE PLANTING:

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



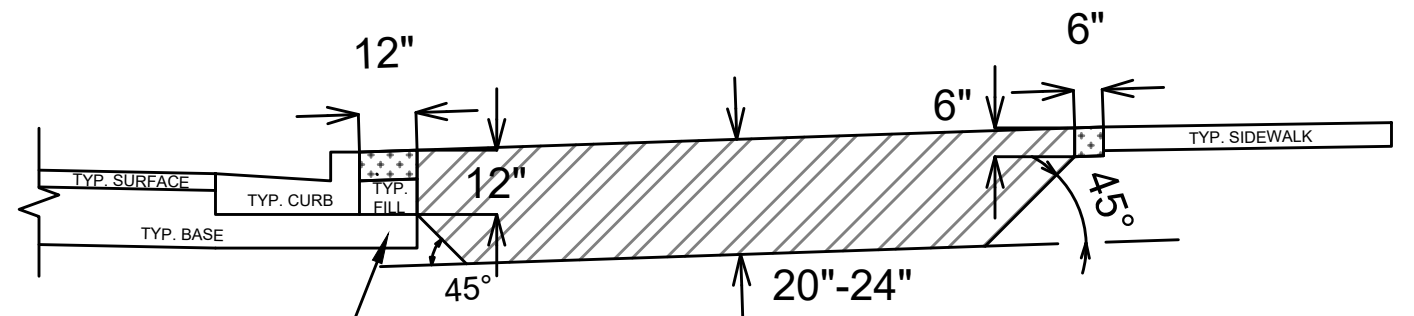
TOP VIEW



LEGEND

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

SECTION VIEW



SPECIAL NOTES:

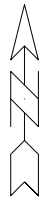
REFER TO S.D.D. 2.01 FOR STANDARD PLANTING TECHNIQUE FOR TREES IN TURF AREAS.

13812	MADISON, WI	8635	D-3
TERRACE EXCAVATION FOR TREE PLANTING		CONTRACT NO.:	
GREEN AVENUE RESURFACING/KNUTSON DRIVE RECONSTRUCTION		13812	
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Designed By: AJZ		Scale:	
13812		D-3	

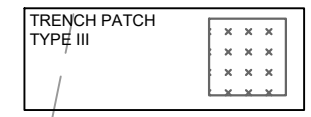
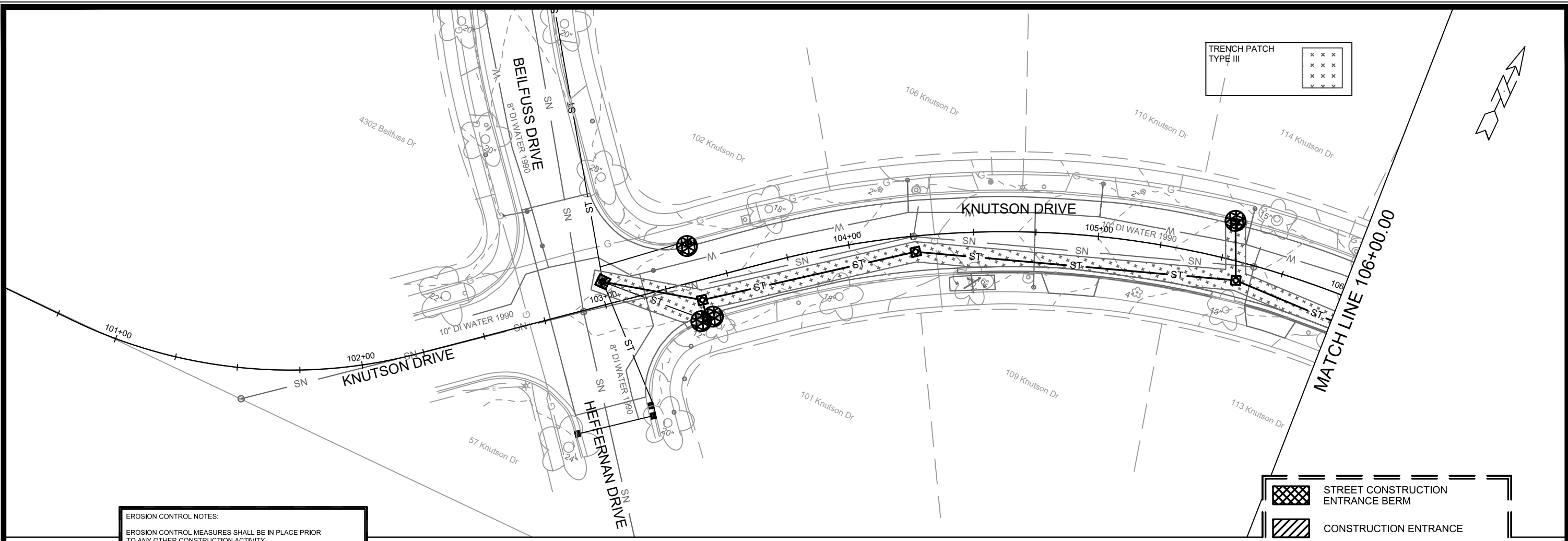




- Notes:
- COLOR
 - BACKGROUND = ORANGE
 - MESSAGE = BLACK
 - BORDER = BLACK
 - LETTERING SERIES = C
 - MINIMUM SIGN REFLECTIVITY = HIGH INTENSITY PRISMATIC GRADE
 - SIGN MATERIAL MAY BE PLASTIC OR METAL
 - CONTRACTOR SHALL MAINTAIN SIGNS FOR DURATION OF PROJECT ATTACHED TO TYPE III BARRICADE



13812		13812	
MADISON, WI		MADISON, WI	
KNUTSON DRIVE RESURFACING/RECONSTRUCTION		KNUTSON DRIVE RESURFACING/RECONSTRUCTION	
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CONTRACT NO: 8635		CONTRACT NO: 8635	
13812		13812	
D-4		D-4	
MARK	REVISION	DATE	BY
13812			
Designed By: AJH	Date: 5/28/2024 10:19 AM	Scale: NTS	D-4



EROSION CONTROL NOTES:

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

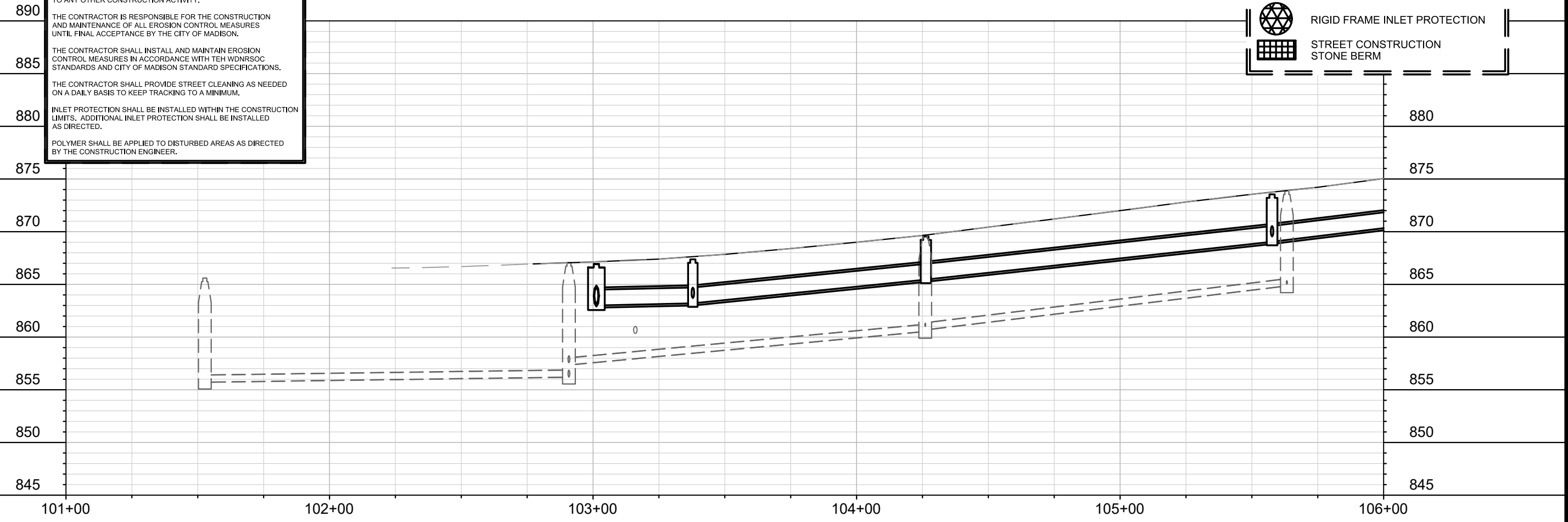
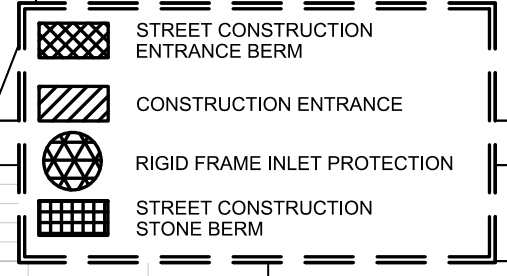
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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.



MARK	REVISION	DATE	BY

13812
MADISON, WI
8635
CONTRACT NO:

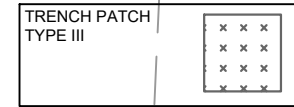
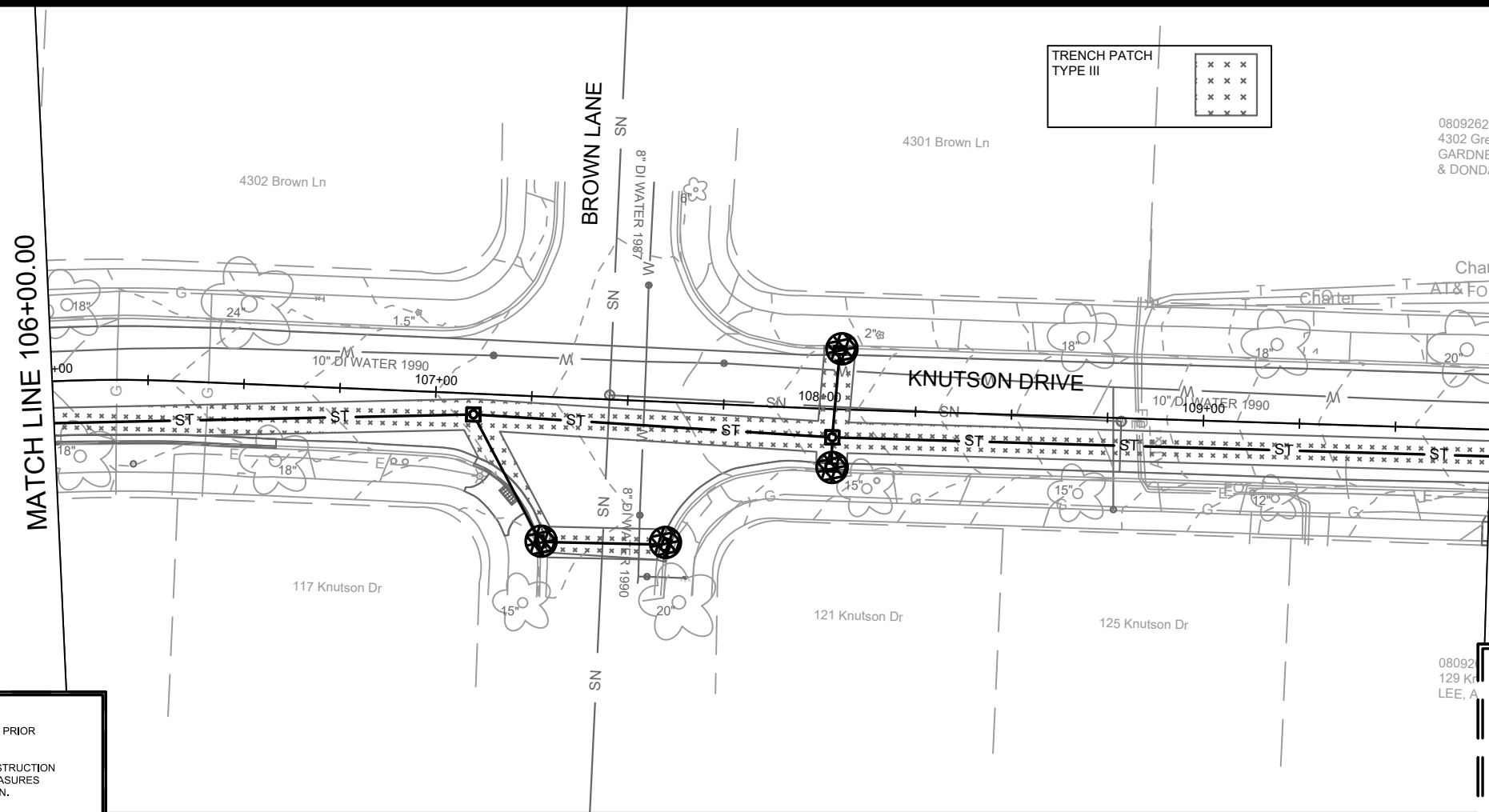
KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION



13812
EC-1

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13812
EC-1



080926205
4302 Gree
GARDNER
& DONDA



EROSION CONTROL NOTES:

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

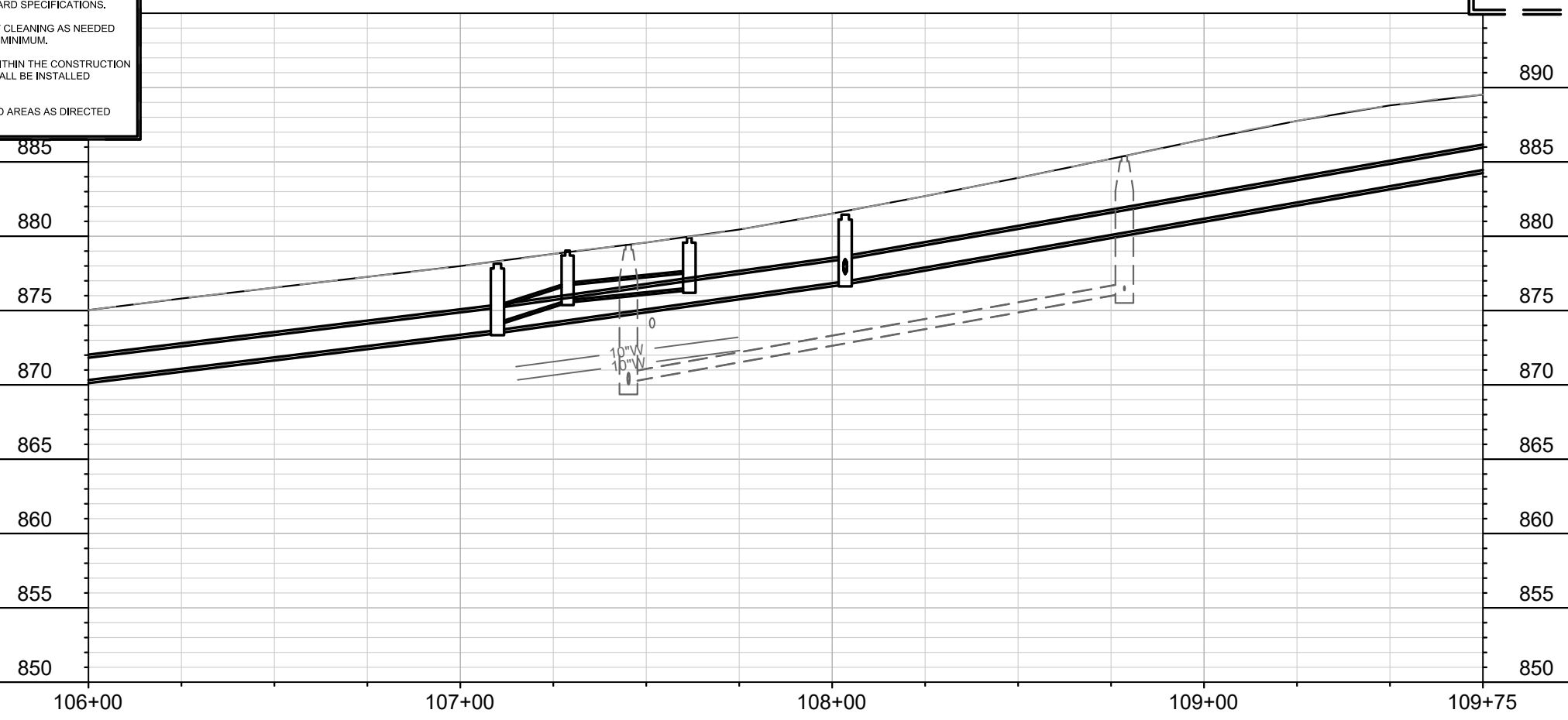
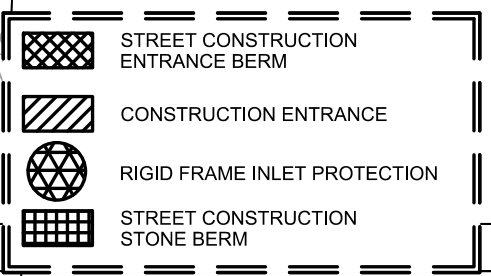
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THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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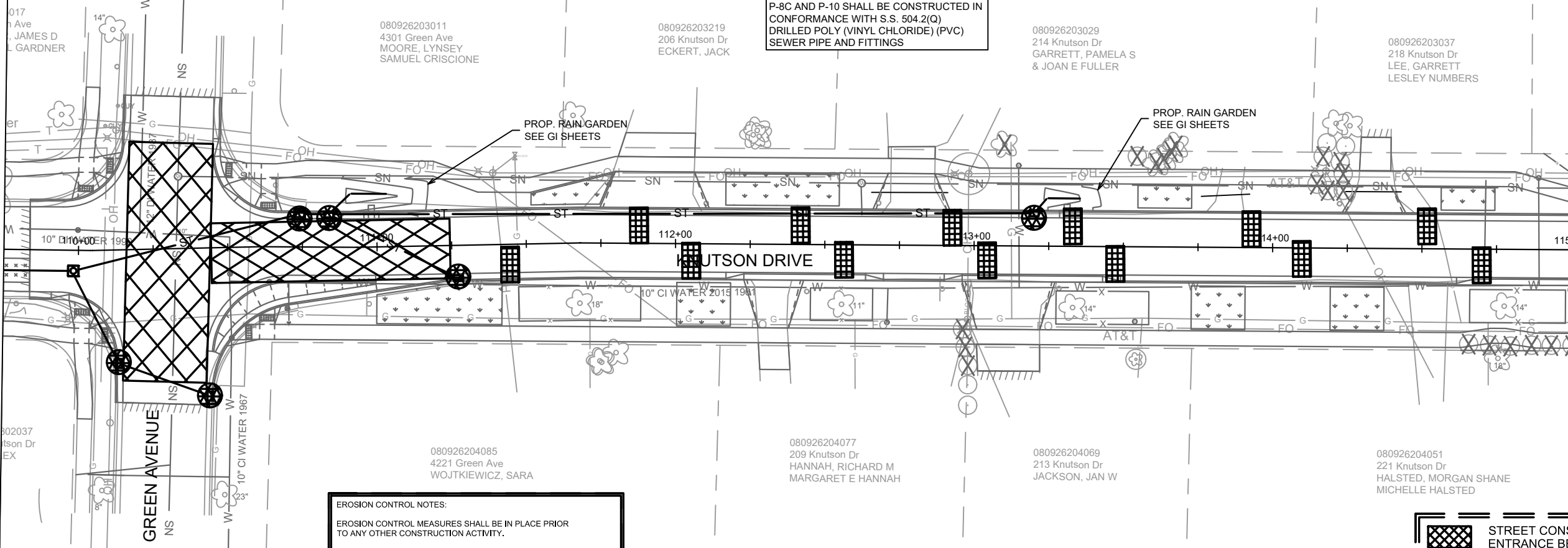
13812
MADISON, WI
8635
CONTRACT NO:



13812
EC-2

MATCH LINE 109+75.00

MATCH LINE 115+00.00



EROSION CONTROL NOTES:

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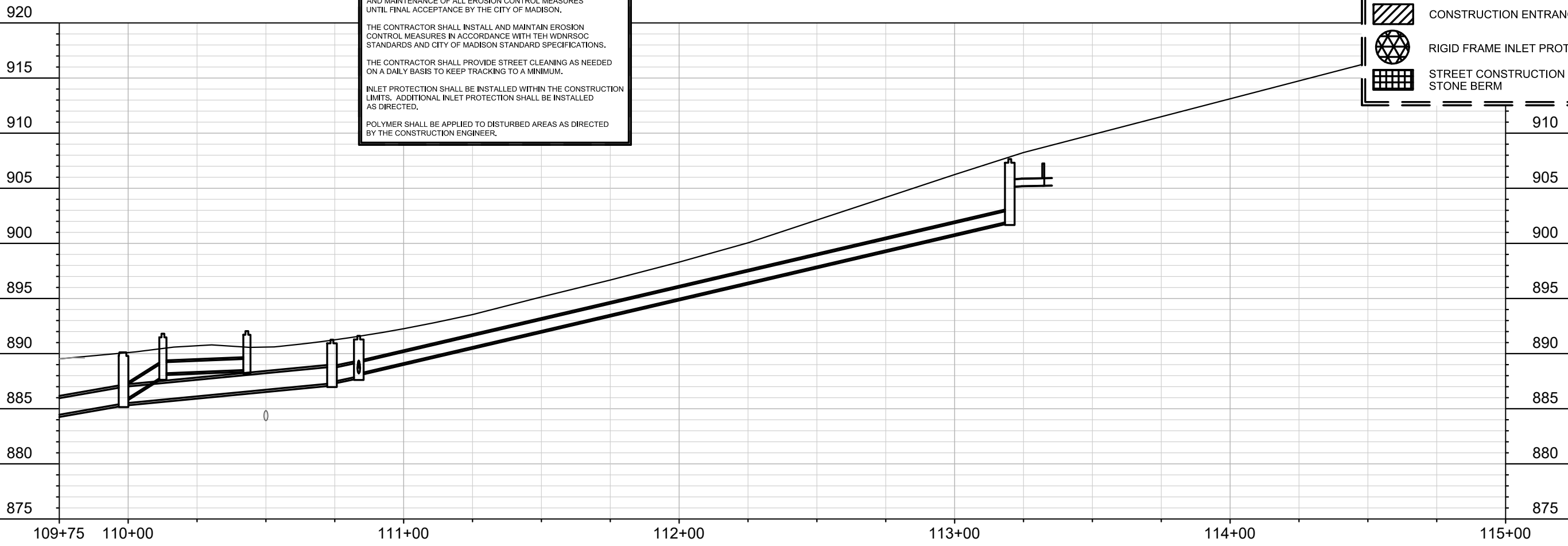
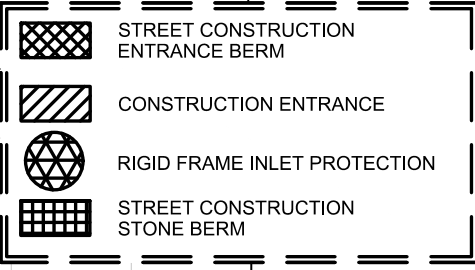
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POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.



MARK	REVISION	DATE	BY

13812
MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
EC-3

MATCH LINE 115+00.00

MATCH LINE 119+99.99

080926203045
220 Knutson Dr
MOREL, DAVID S

080926203053
302 Knutson Dr
LOVICK, TIMOTHY B
& DEBORAH L LOVICK

080926203996
306 Knutson Dr
NAJDOWSKI, CRAIG A
CHRISTINE M NAJDOWSKI

080926204027
4305 West
O'KANE, J

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.

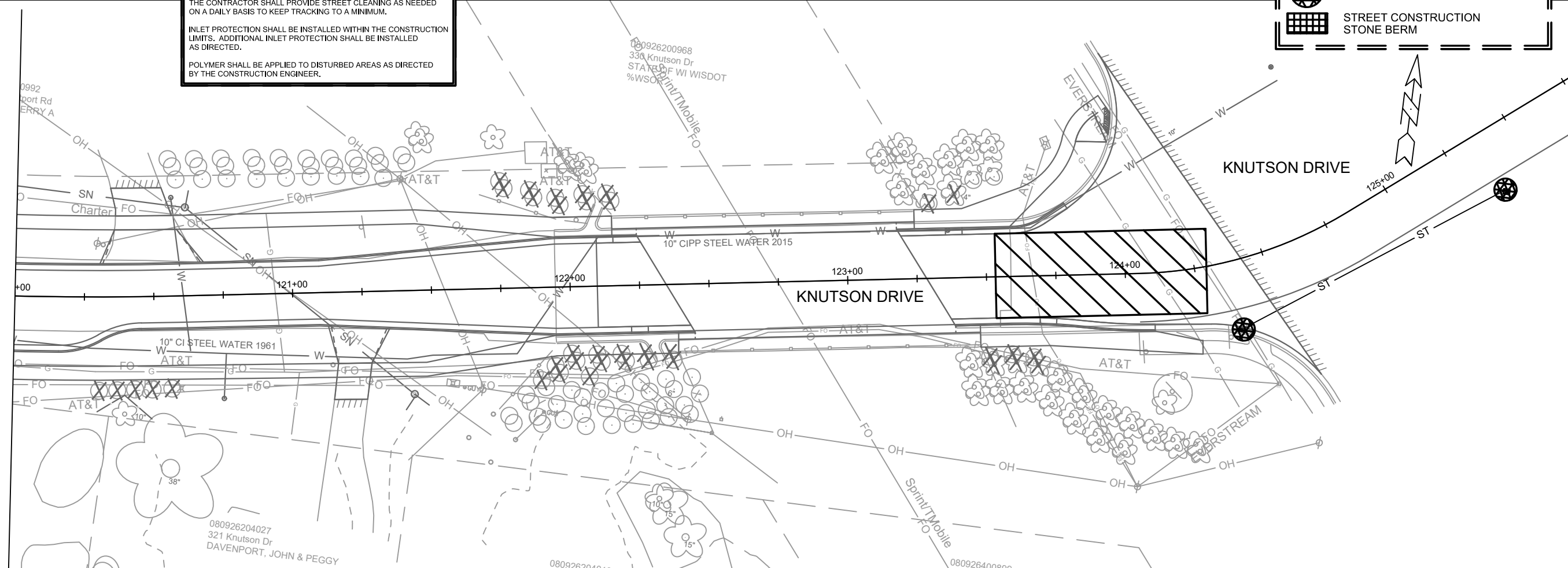
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POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

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



0992
Port Rd
ERRY A

080926200968
330 Knutson Dr
STATE OF WI WISDOT
%WSOC

080926204027
321 Knutson Dr
DAVENPORT, JOHN & PEGGY

080926204027

080926200968

MARK	REVISION	DATE	BY

13812
MADISON, WI
8635

CONTRACT NO:

KNUTSON DRIVE EROSION CONTROL PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

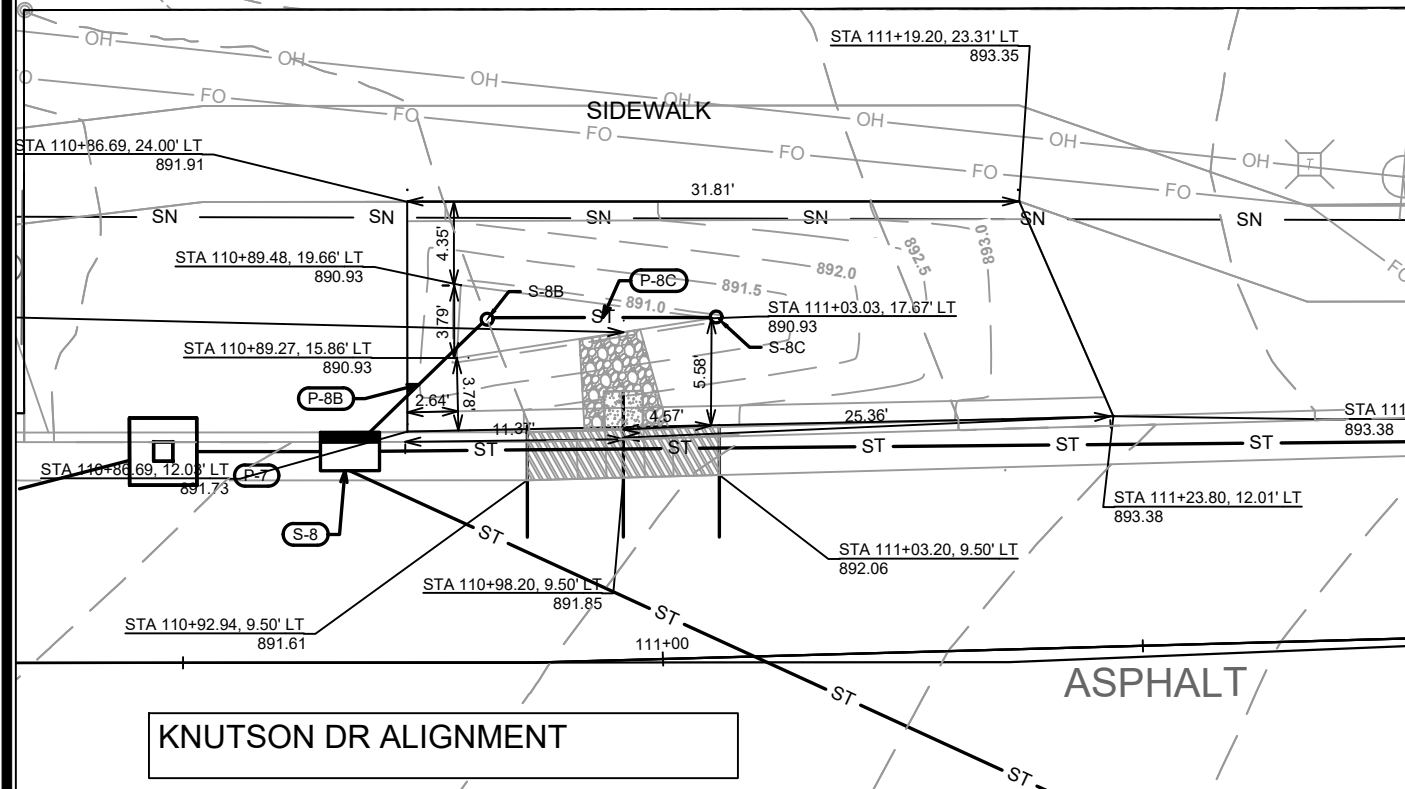


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EC-4

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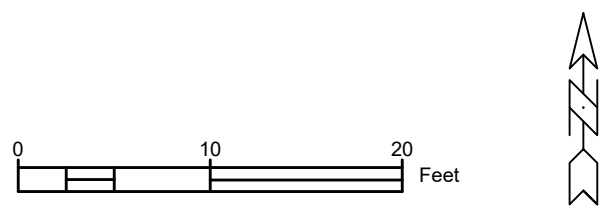
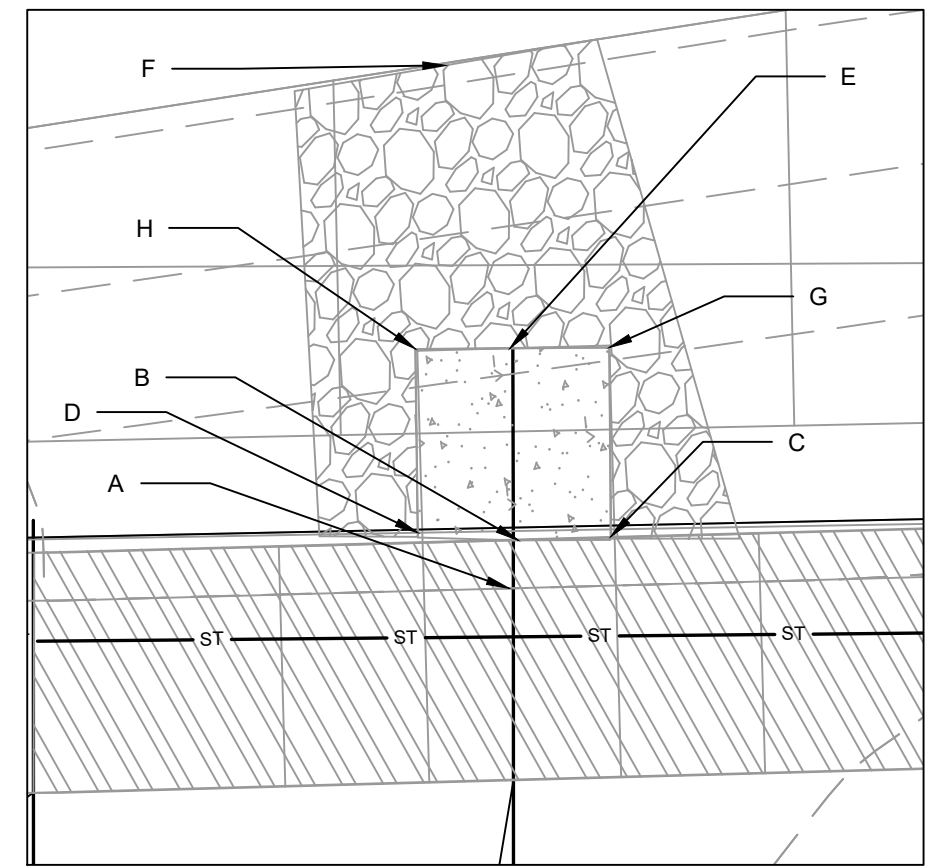
EC-4

080926203011
 4301 Green Ave
 MOORE, LYNSEY
 SAMUEL CRISCIONE

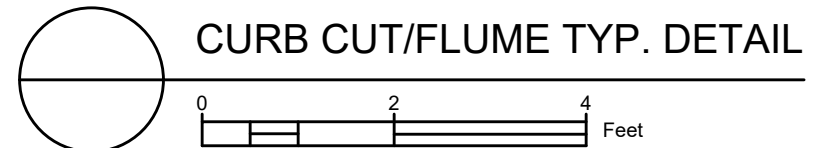


DETAIL POINT ELEVATIONS/DESCRIPTIONS

Point	Point Description	Distance from Existing FlowLine (ft)	Elevation
	Ex. EOG at CL of Flume	+0.125	891.85
A	Ex. Flow Line at CL of Flume	0	891.73
B	Pro. Gutter Flow Line at CL of Flume	-0.17	891.56
C	Edge of Flume @ Gutter (Uphill)	varies	891.83
D	Edge of Flume @ Gutter (Downhill)	varies	891.61
E	Bottom of Flume at CL	varies	891.39
F	Bottom of Stone/Pond	varies	890.93
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	891.75
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	891.52

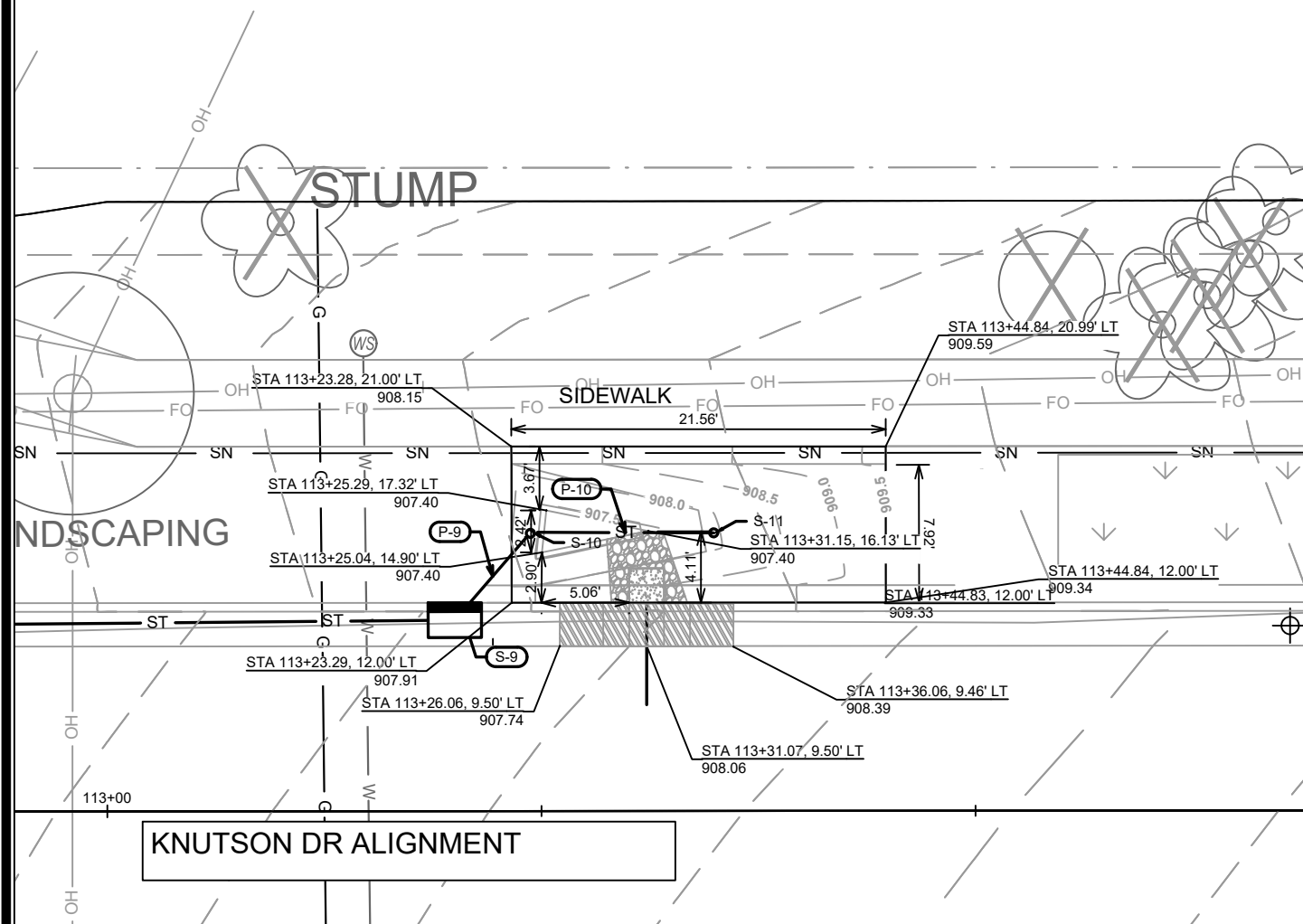


NOTES:
 1. ALL AREAS WITHIN GRADING LIMITS TO RECEIVE CLASS I, TYPE A - ORGANIC EROSION CONTROL MATTING IF COMPLETED OUTSIDE OF GROWING SEASONS, SEE SPECIAL PROVISIONS
 2. ALL AREAS OUTSIDE OF TOP OF BASIN SHALL RECEIVE TERRACE SEED MIX, DO NOT SEED WITHIN SIDE SLOPES OR BOTTOM OF BASIN.
 3. SEE DETAIL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

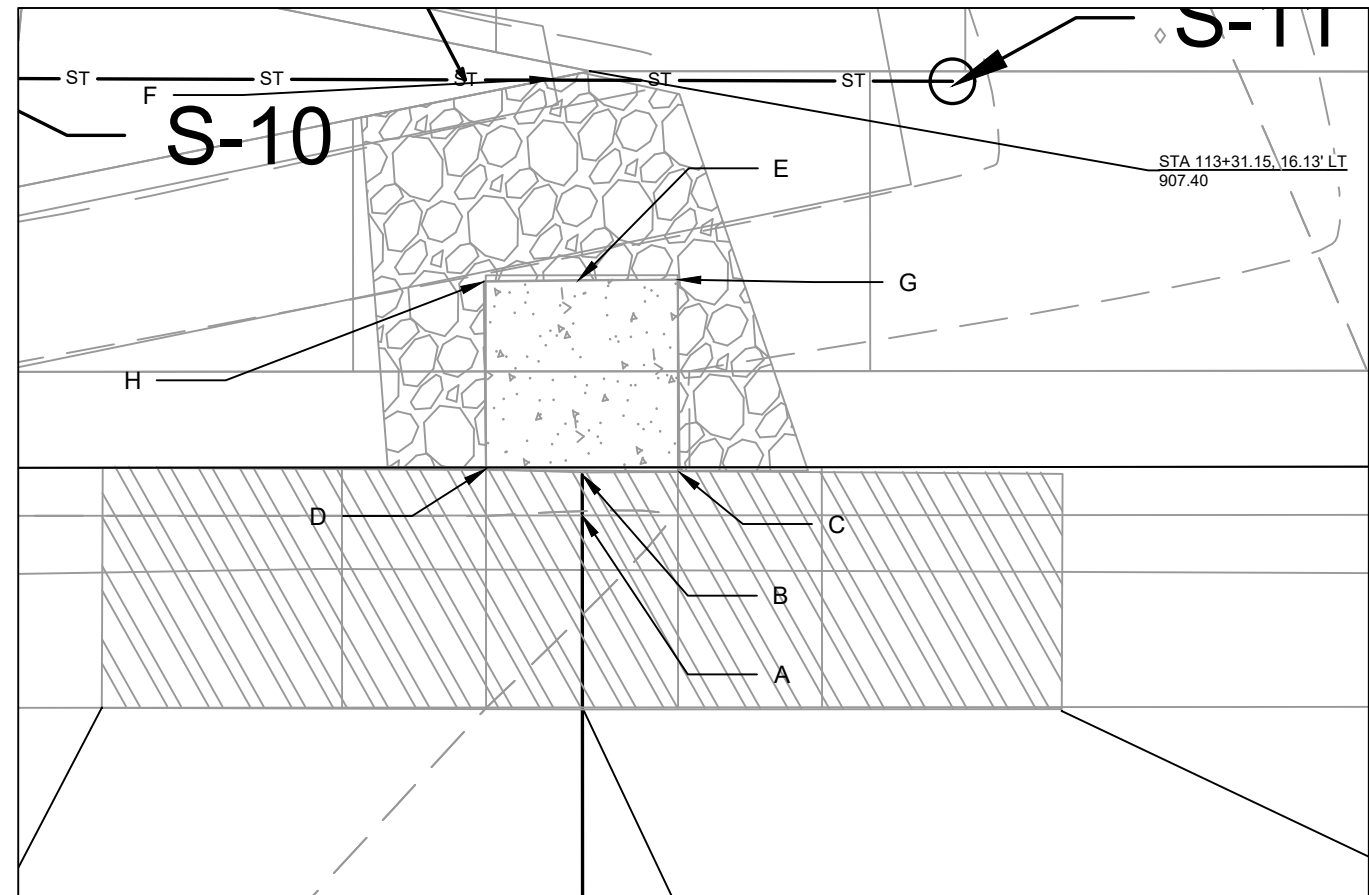


13812
 MADISON, WI
 8635
 CONTRACT NO.:
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 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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 CITY OF MADISON WISCONSIN
 13812
 G1-1

080926203029
 214 Knutson Dr
 GARRETT, PAMELA S
 & JOAN E FULLER



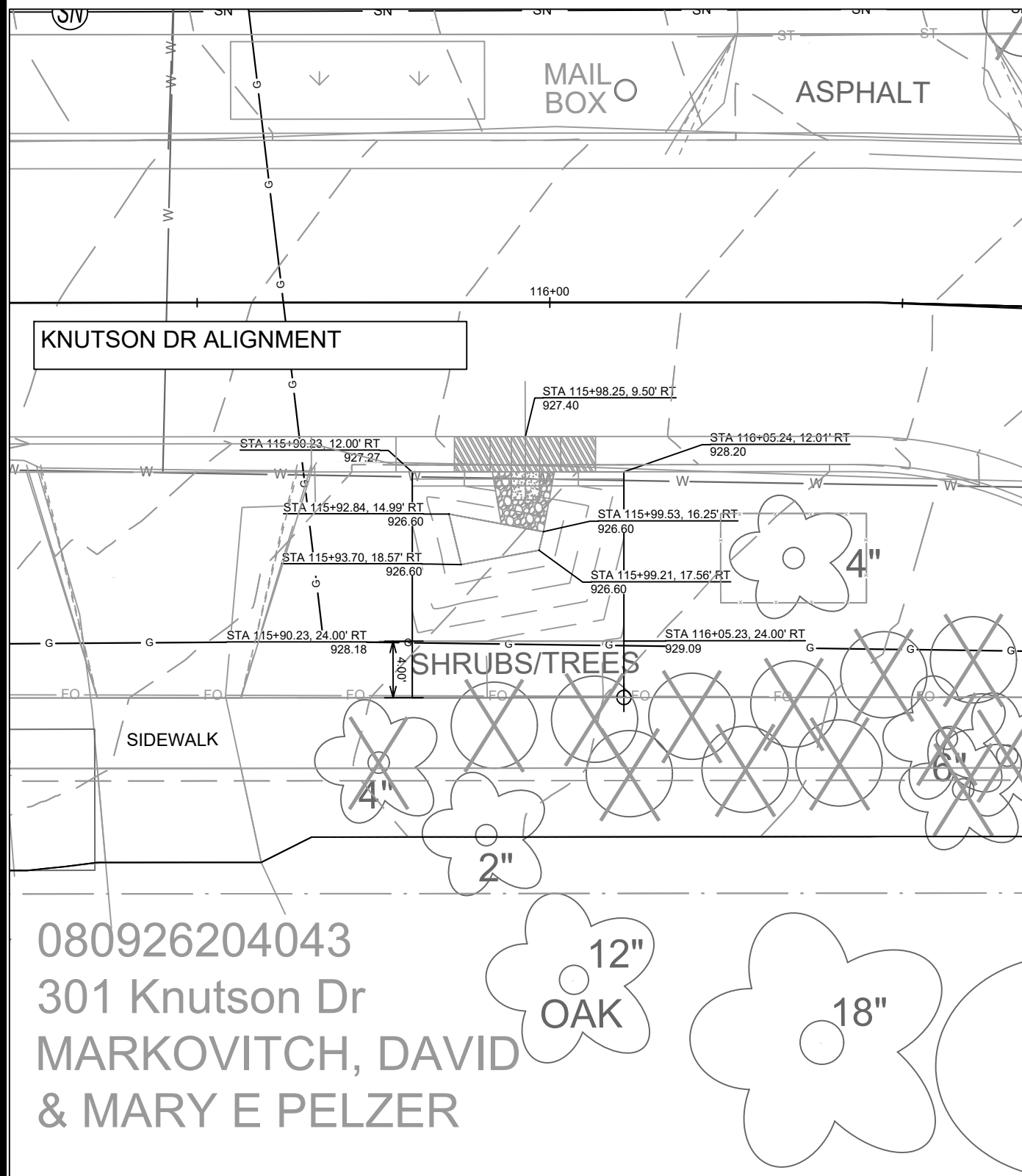
DETAIL POINT ELEVATIONS/DESCRIPTIONS			
Point	Point Description	Pond depth (inches)	Elevation
		6	
		Distance from Existing FlowLine (ft)	
	Ex. EOG at CL of Flume	+0.125	908.06
A	Ex. Flow Line at CL of Flume	0	907.94
B	Pro. Gutter Flow Line at CL of Flume	-0.17	907.77
C	Edge of Flume @ Gutter (Uphill)	varies	908.10
D	Edge of Flume @ Gutter (Downhill)	varies	907.86
E	Bottom of Flume at CL	varies	907.60
F	Bottom of Stone/Pond	varies	907.40
G	Edge of Flume @ Bottom of Basin (Uphill)	varies	908.02
H	Edge of Flume @ Bottom of Basin (Downhill)	varies	907.78



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.

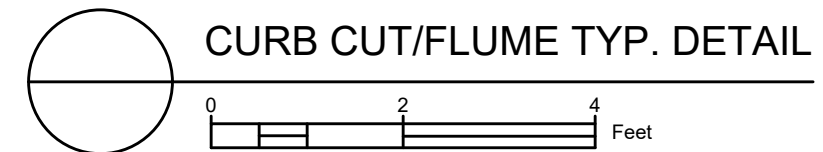
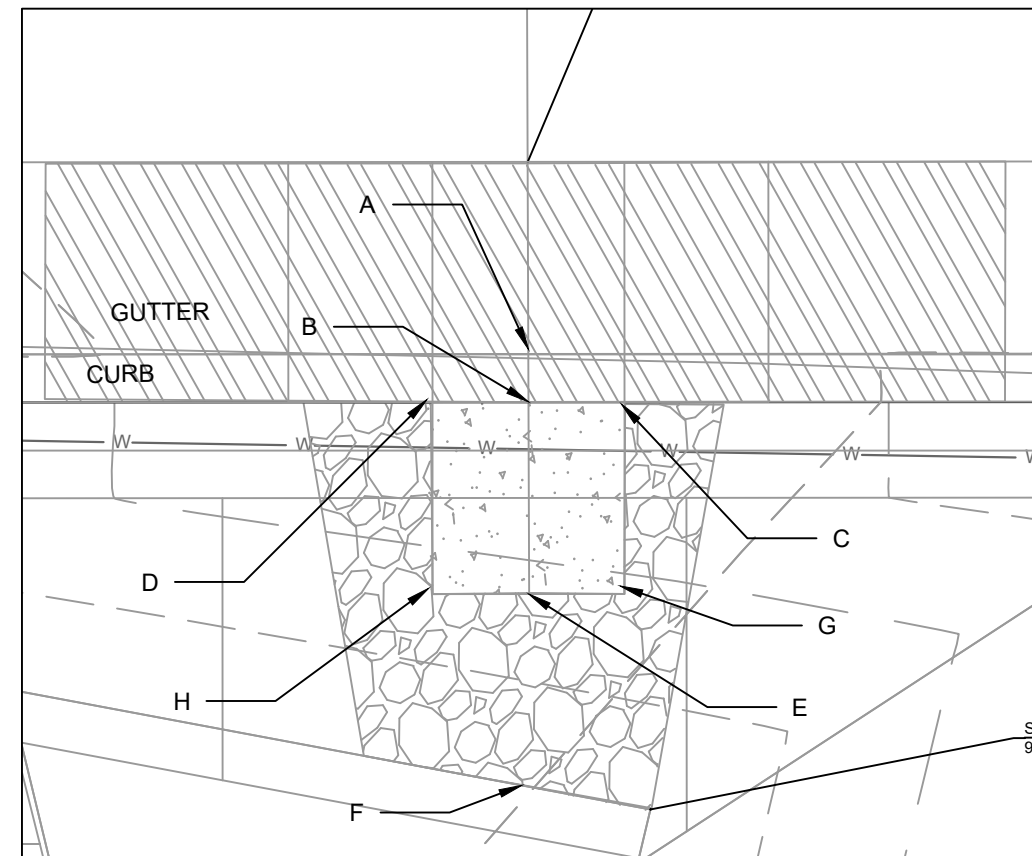


13812
 MADISON, WI
 8635
 CONTRACT NO:
 13812
 GI-2
 214 KNUTSON DRIVE BIORETENTION
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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 CITY OF MADISON WISCONSIN
 13812
 GI-2

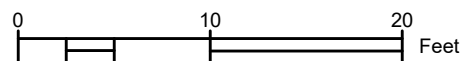


DETAIL POINT ELEVATIONS/DESCRIPTIONS

Point	Point Description	Pond depth (inches)	Elevation
	Ex. EOG at CL of Flume	8	927.40
	Distance from Existing FlowLine (ft)		
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:
 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 OR THE 1 FOOT RECOVERY ZONE.
 3. SEE DETAIL D-1 AND D-2.



REVISION	DATE	BY

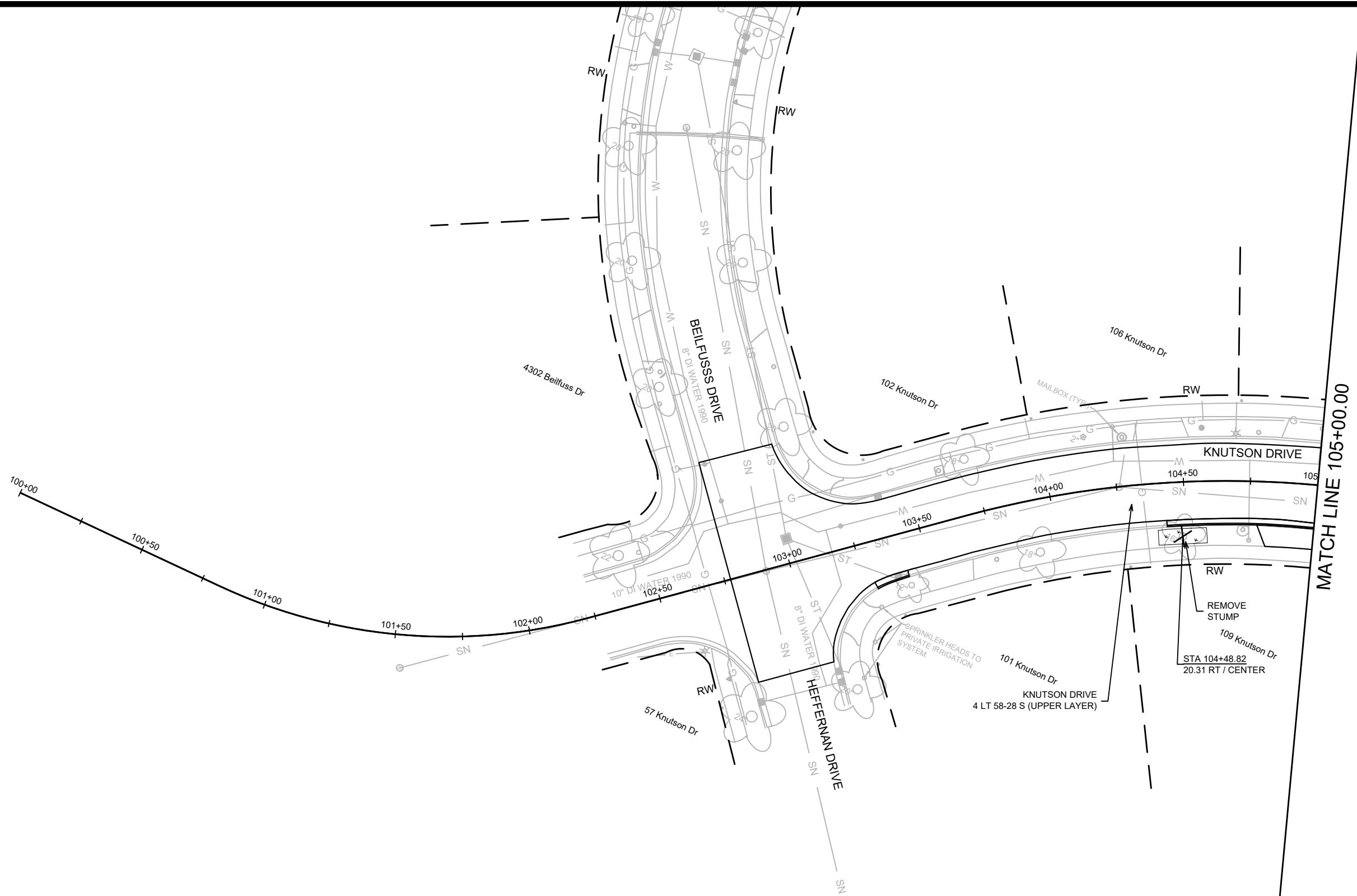
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MADISON, WI
8635
CONTRACT NO:

301 KNUTSON DRIVE RAIN GARDEN
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
GI-3



MATCH LINE 105+00.00

LEGEND

- SLOPE INTERCEPT
- X- CONSTRUCTION FENCE
- X CLEARING & GRUBBING
- TTT SAWING ASPHALT
- [Dotted Box] TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3

NOTES

- ALL SECTIONS OF DRIVEWAYS REMOVED & REPLACED BETWEEN THE CURB & SIDEWALK SHALL BE CONCRETE DRIVEWAY 7-INCH
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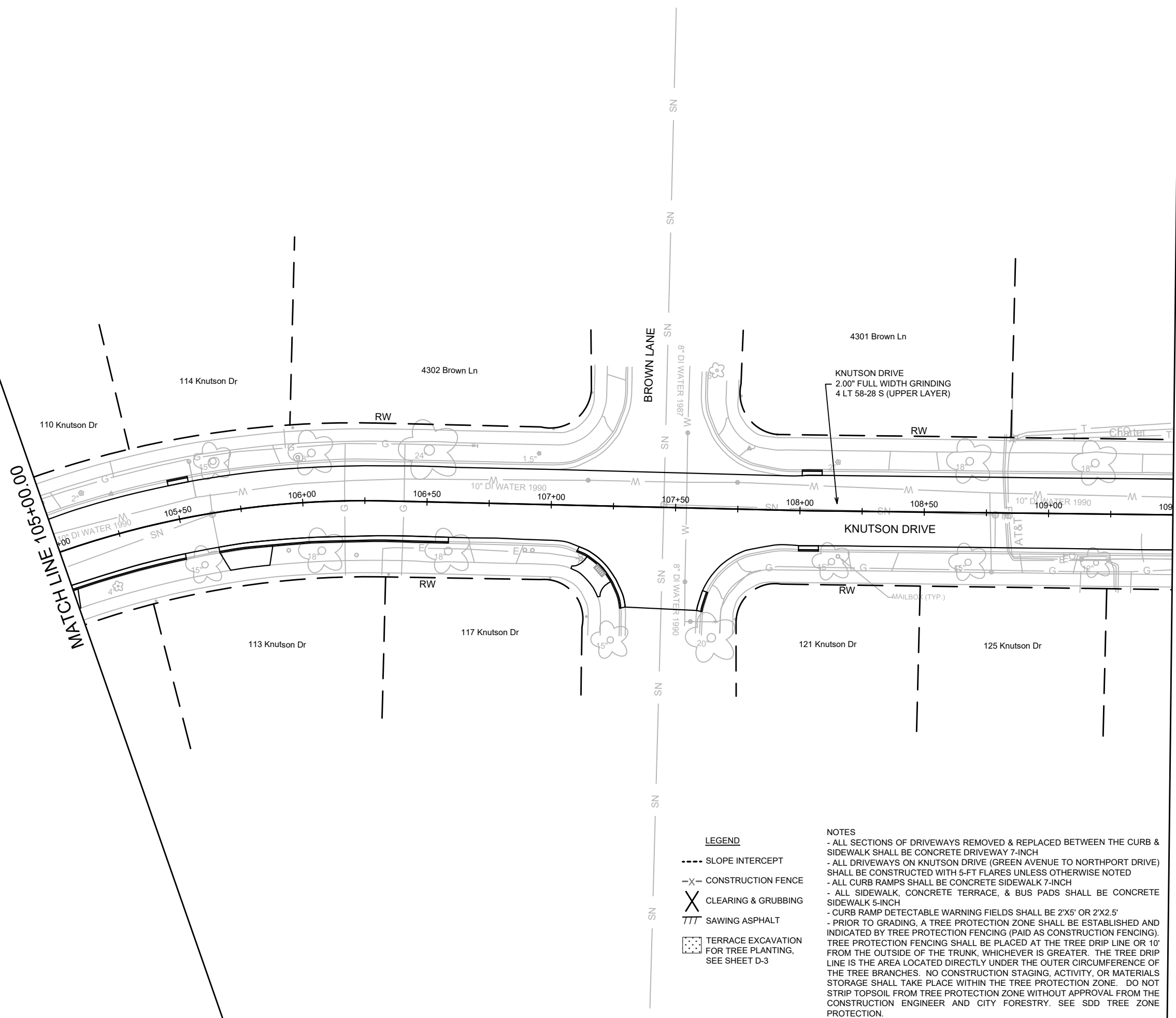
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MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE PLAN DETAIL
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
PD-1

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13812
Date: 5/01/2024 3:13 PM
Scale: 1" = 40'
PD-1



MATCH LINE 109+50.00

MATCH LINE 105+00.00

LEGEND

- SLOPE INTERCEPT
- X- CONSTRUCTION FENCE
- X CLEARING & GRUBBING
- TTT SAWING ASPHALT
- [Stippled Box] TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3

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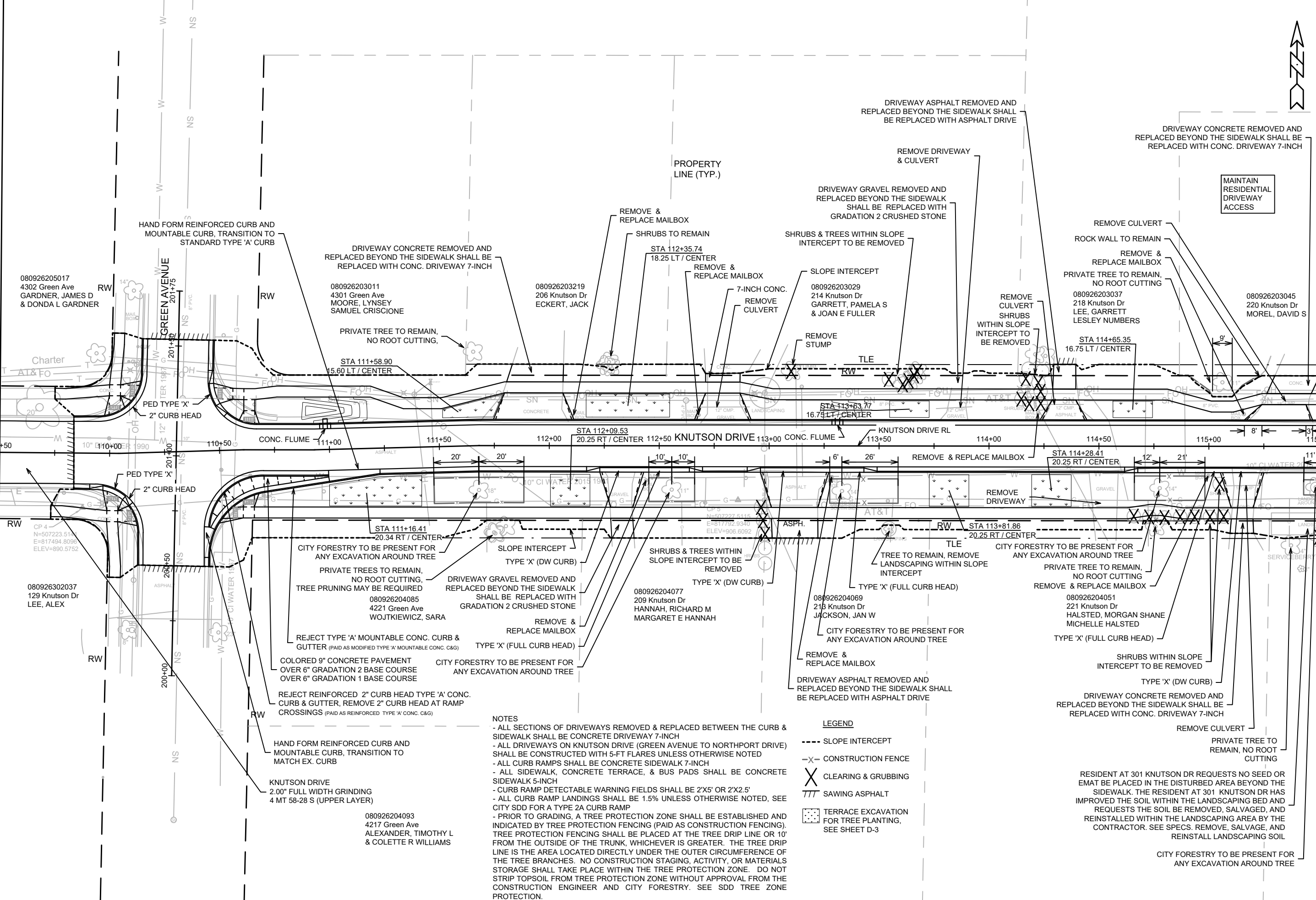
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 8635
 CONTRACT NO:
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
 PD-2

MATCH LINE 109+50.00

MATCH LINE 115+50.00



080926205017
4302 Green Ave
GARDNER, JAMES D
& DONDA L GARDNER

080926203011
4301 Green Ave
MOORE, LYNSEY
SAMUEL CRISCIONE

080926203219
206 Knutson Dr
ECKERT, JACK

080926203029
214 Knutson Dr
GARRETT, PAMELA S
& JOAN E FULLER

080926203037
218 Knutson Dr
LEE, GARRETT
LESLEY NUMBERS

080926203045
220 Knutson Dr
MOREL, DAVID S

080926302037
129 Knutson Dr
LEE, ALEX

080926204085
4221 Green Ave
WOJTKIEWICZ, SARA

080926204077
209 Knutson Dr
HANNAH, RICHARD M
MARGARET E HANNAH

080926204069
213 Knutson Dr
JACKSON, JAN W

080926204051
221 Knutson Dr
HALSTED, MORGAN SHANE
MICHELLE HALSTED

080926204093
4217 Green Ave
ALEXANDER, TIMOTHY L
& COLETTE R WILLIAMS

NOTES

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LEGEND

- SLOPE INTERCEPT
- X- CONSTRUCTION FENCE
- X CLEARING & GRUBBING
- /// SAWING ASPHALT
- TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3

RESIDENT AT 301 KNOTSON DR REQUESTS NO SEED OR EMAT BE PLACED IN THE DISTURBED AREA BEYOND THE SIDEWALK. THE RESIDENT AT 301 KNOTSON DR HAS IMPROVED THE SOIL WITHIN THE LANDSCAPING BED AND REQUESTS THE SOIL BE REMOVED, SALVAGED, AND REINSTALLED WITHIN THE LANDSCAPING AREA BY THE CONTRACTOR. SEE SPECS. REMOVE, SALVAGE, AND REINSTALL LANDSCAPING SOIL

CITY FORESTRY TO BE PRESENT FOR ANY EXCAVATION AROUND TREE

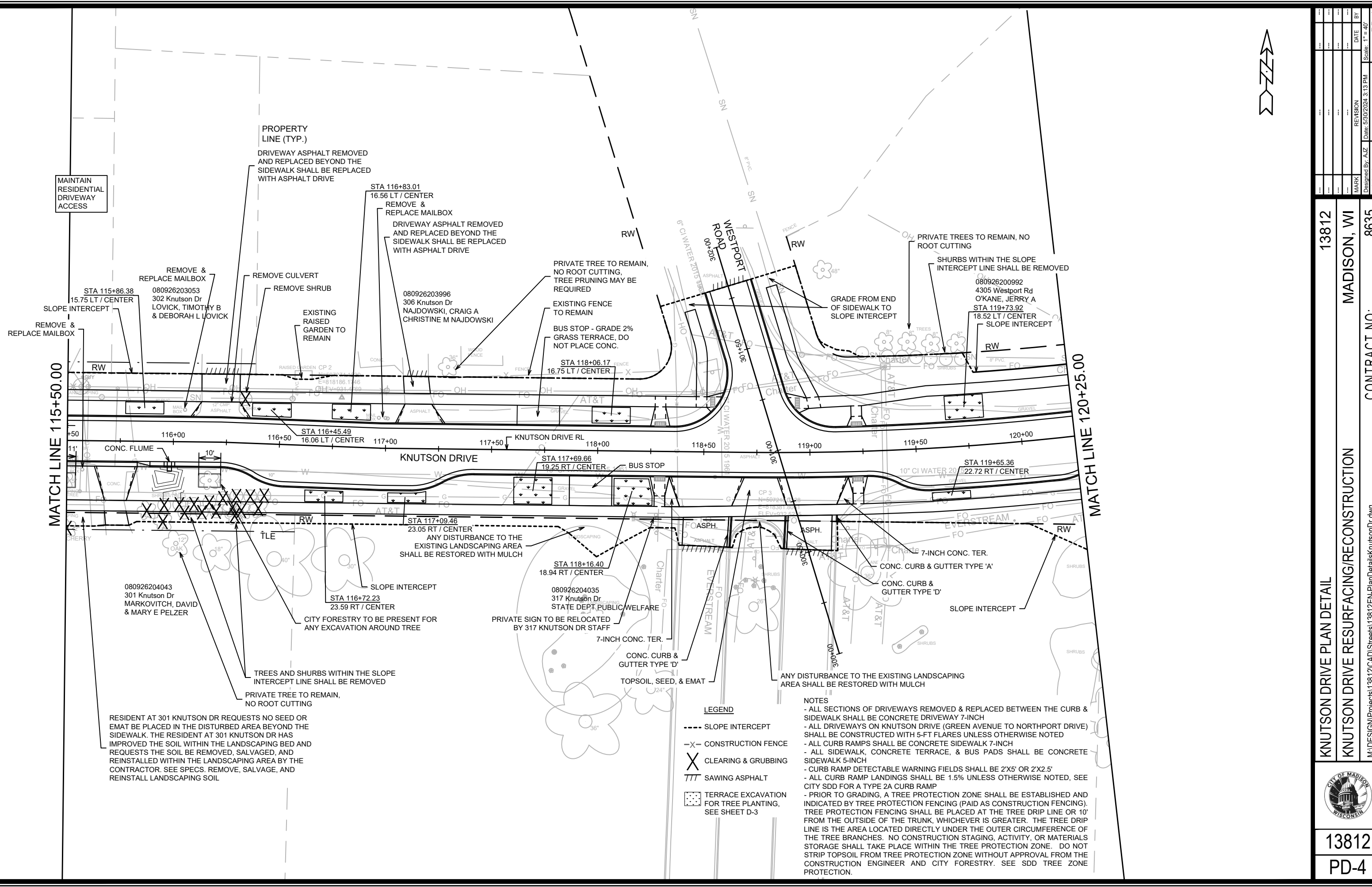
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MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE PLAN DETAIL
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
PD-3



MAINTAIN RESIDENTIAL DRIVEWAY ACCESS

PROPERTY LINE (TYP.)

DRIVEWAY ASPHALT REMOVED AND REPLACED BEYOND THE SIDEWALK SHALL BE REPLACED WITH ASPHALT DRIVE

STA 116+83.01
16.56 LT / CENTER
REMOVE & REPLACE MAILBOX

DRIVEWAY ASPHALT REMOVED AND REPLACED BEYOND THE SIDEWALK SHALL BE REPLACED WITH ASPHALT DRIVE

REMOVE & REPLACE MAILBOX
080926203053
302 Knutson Dr
LOVICK, TIMOTHY B & DEBORAH L LOVICK

REMOVE SHRUB
EXISTING RAISED GARDEN TO REMAIN

080926203996
306 Knutson Dr
NAJDOWSKI, CRAIG A
CHRISTINE M NAJDOWSKI

PRIVATE TREE TO REMAIN, NO ROOT CUTTING, TREE PRUNING MAY BE REQUIRED

EXISTING FENCE TO REMAIN

BUS STOP - GRADE 2% GRASS TERRACE, DO NOT PLACE CONC.

STA 118+06.17
16.75 LT / CENTER

PRIVATE TREES TO REMAIN, NO ROOT CUTTING

SHURBS WITHIN THE SLOPE INTERCEPT LINE SHALL BE REMOVED

080926200992
4305 Westport Rd
O'KANE, JERRY A
STA 119+73.92
18.52 LT / CENTER
SLOPE INTERCEPT

REMOVE & REPLACE MAILBOX

STA 115+86.38
15.75 LT / CENTER
SLOPE INTERCEPT

RAISED GARDEN CP 2

E=818186.1746
OHEV=931.4759

STA 116+45.49
16.06 LT / CENTER

KNUTSON DRIVE RL

STA 117+69.66
19.25 RT / CENTER

BUS STOP

STA 119+65.36
22.72 RT / CENTER

080926204043
301 Knutson Dr
MARKOVITCH, DAVID & MARY E PELZER

STA 116+72.23
23.59 RT / CENTER

CITY FORESTRY TO BE PRESENT FOR ANY EXCAVATION AROUND TREE

STA 117+09.46
23.05 RT / CENTER
ANY DISTURBANCE TO THE EXISTING LANDSCAPING AREA SHALL BE RESTORED WITH MULCH

STA 118+16.40
18.94 RT / CENTER

080926204035
317 Knutson Dr
STATE DEPT PUBLIC WELFARE

PRIVATE SIGN TO BE RELOCATED BY 317 KNUTSON DR STAFF

7-INCH CONC. TER.

CONC. CURB & GUTTER TYPE 'D'

TOPSOIL, SEED, & EMAT

CONC. CURB & GUTTER TYPE 'A'

CONC. CURB & GUTTER TYPE 'D'

SLOPE INTERCEPT

ANY DISTURBANCE TO THE EXISTING LANDSCAPING AREA SHALL BE RESTORED WITH MULCH

RESIDENT AT 301 KNUTSON DR REQUESTS NO SEED OR EMAT BE PLACED IN THE DISTURBED AREA BEYOND THE SIDEWALK. THE RESIDENT AT 301 KNUTSON DR HAS IMPROVED THE SOIL WITHIN THE LANDSCAPING BED AND REQUESTS THE SOIL BE REMOVED, SALVAGED, AND REINSTALLED WITHIN THE LANDSCAPING AREA BY THE CONTRACTOR. SEE SPECS. REMOVE, SALVAGE, AND REINSTALL LANDSCAPING SOIL

LEGEND

- SLOPE INTERCEPT
- X- CONSTRUCTION FENCE
- X CLEARING & GRUBBING
- /// SAWING ASPHALT
- [] TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3

NOTES

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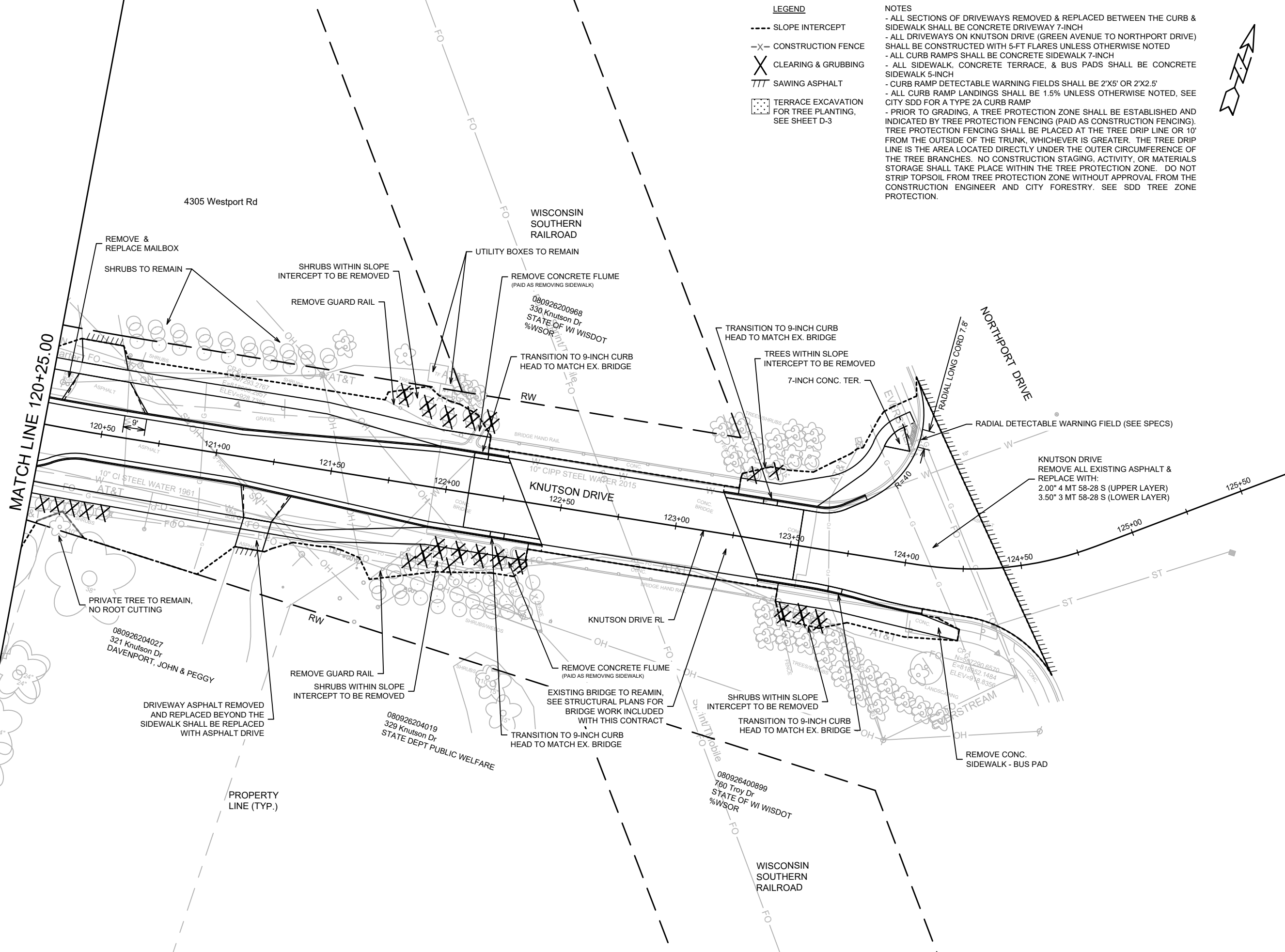


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13812	PD-4

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MADISON, WI
8635
CONTRACT NO:
KNUTSON DRIVE PLAN DETAIL
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
PD-4



- LEGEND**
- SLOPE INTERCEPT
 - X- CONSTRUCTION FENCE
 - X CLEARING & GRUBBING
 - /// SAWING ASPHALT
 - [] TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3

NOTES

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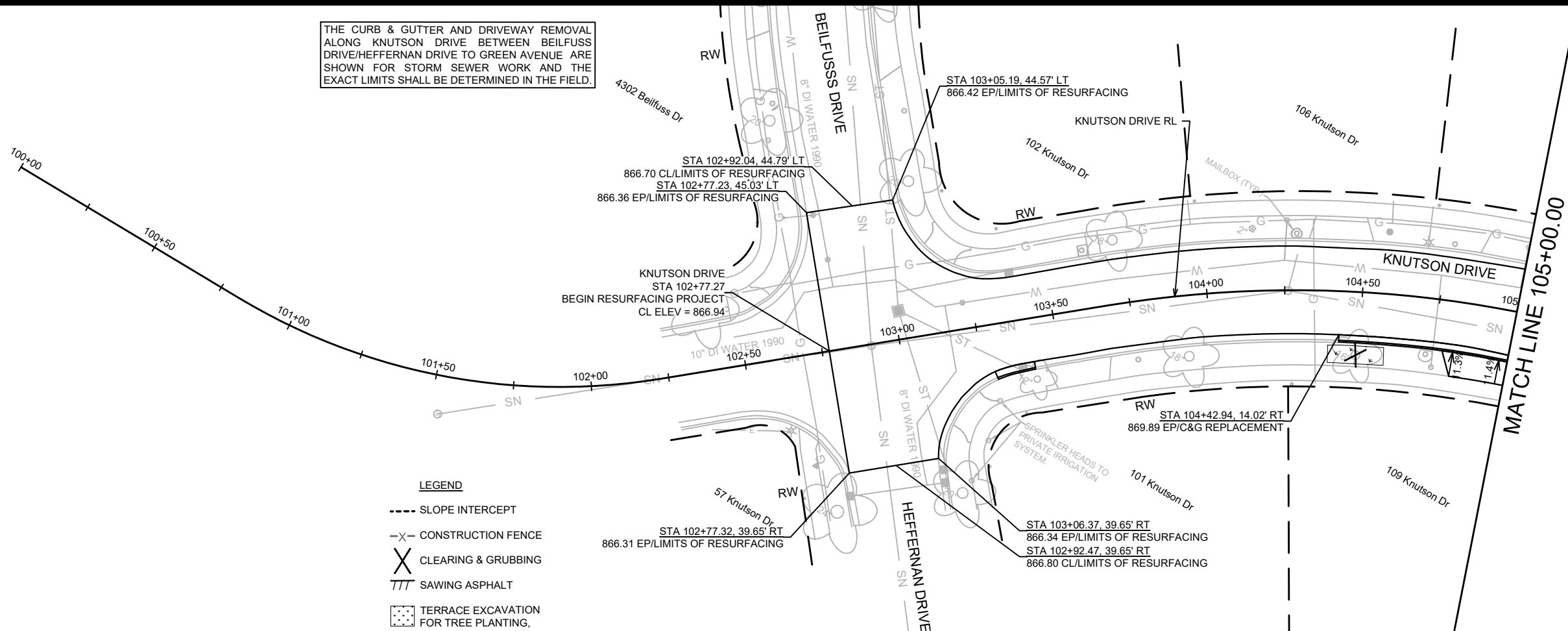
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8635
CONTRACT NO:

KNUTSON DRIVE PLAN DETAIL
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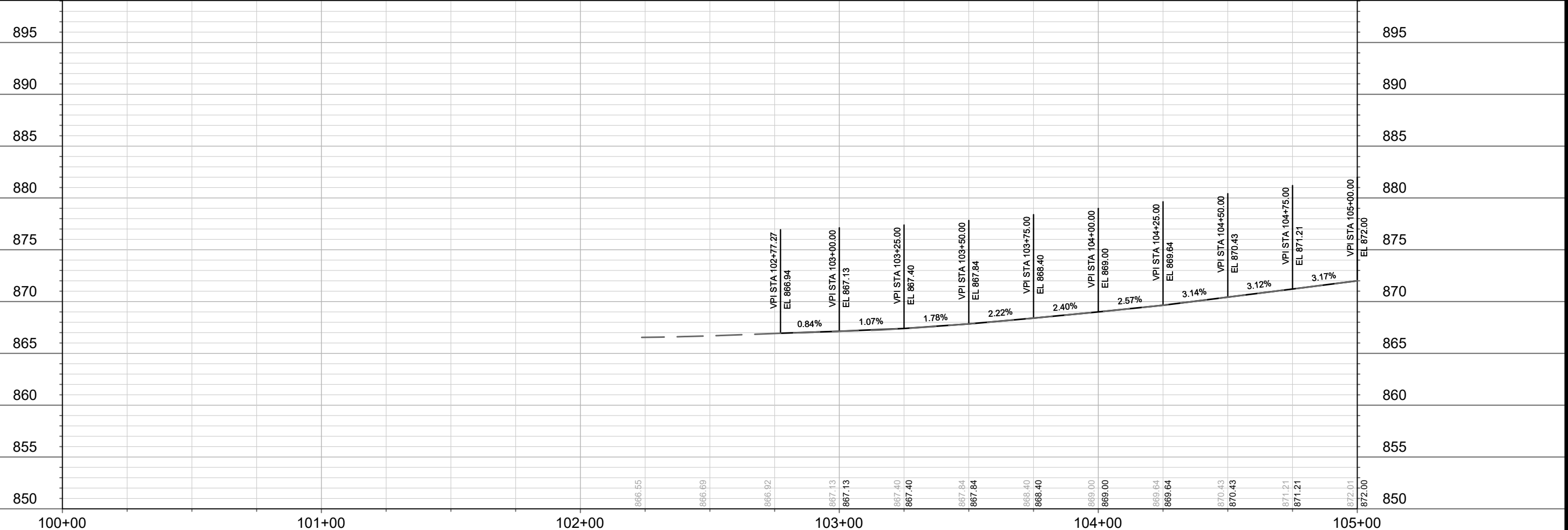


13812
PD-5

THE CURB & GUTTER AND DRIVEWAY REMOVAL ALONG KNUTSON DRIVE BETWEEN BEILFUSS DRIVE/HEFFERNAN DRIVE TO GREEN AVENUE ARE SHOWN FOR STORM SEWER WORK AND THE EXACT LIMITS SHALL BE DETERMINED IN THE FIELD.



- LEGEND**
- SLOPE INTERCEPT
 - X- CONSTRUCTION FENCE
 - X CLEARING & GRUBBING
 - TTT SAWING ASPHALT
 - [Pattern Box] TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3



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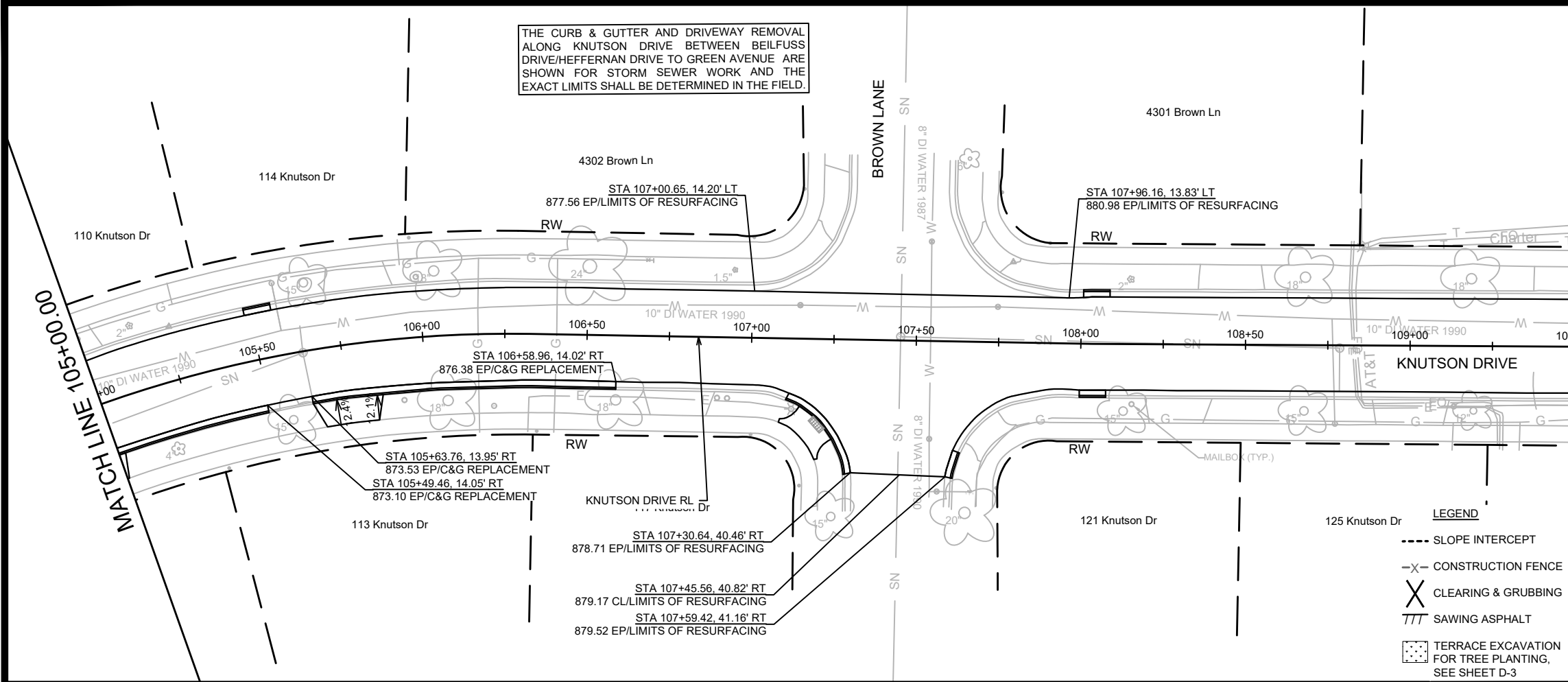
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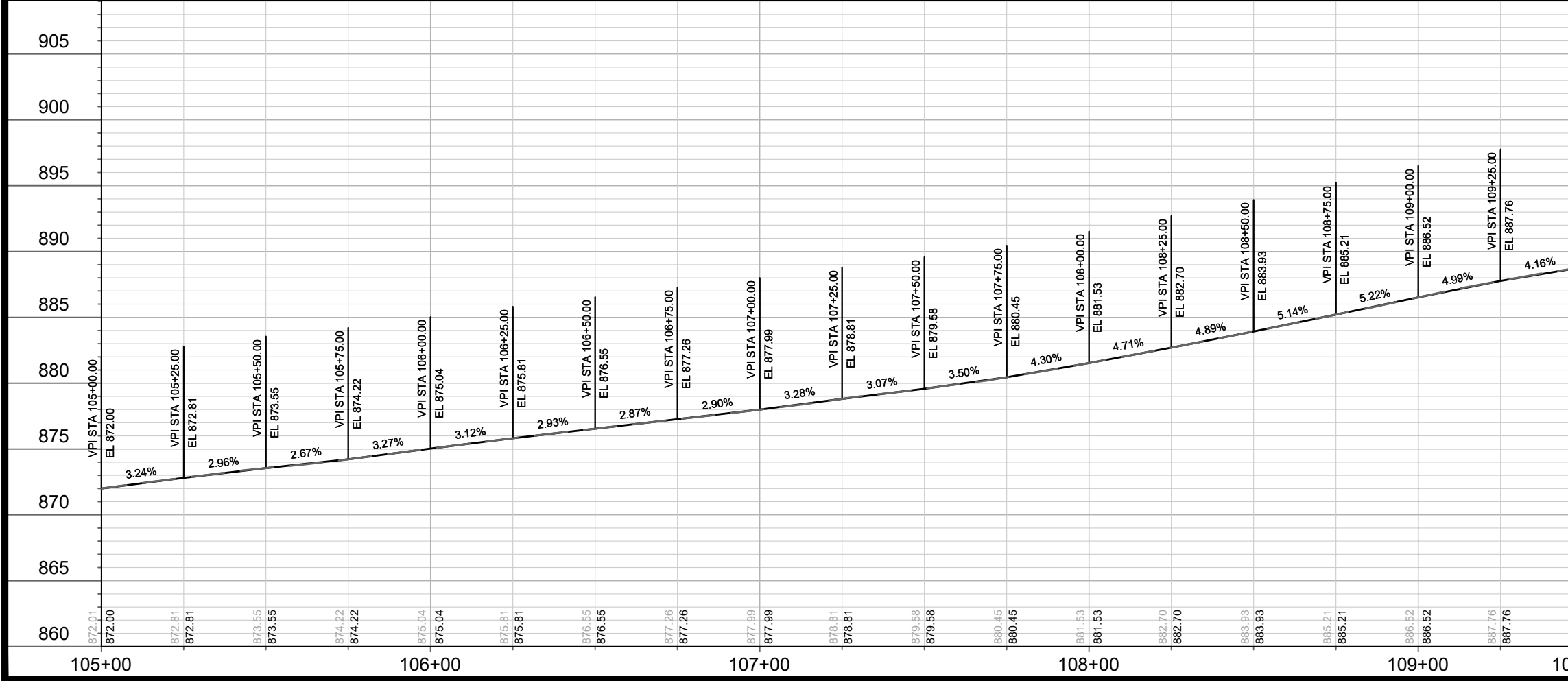


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P-1

THE CURB & GUTTER AND DRIVEWAY REMOVAL ALONG KNUTSON DRIVE BETWEEN BEILFUSS DRIVE/HEFFERNAN DRIVE TO GREEN AVENUE ARE SHOWN FOR STORM SEWER WORK AND THE EXACT LIMITS SHALL BE DETERMINED IN THE FIELD.



MATCH LINE 109+50.00

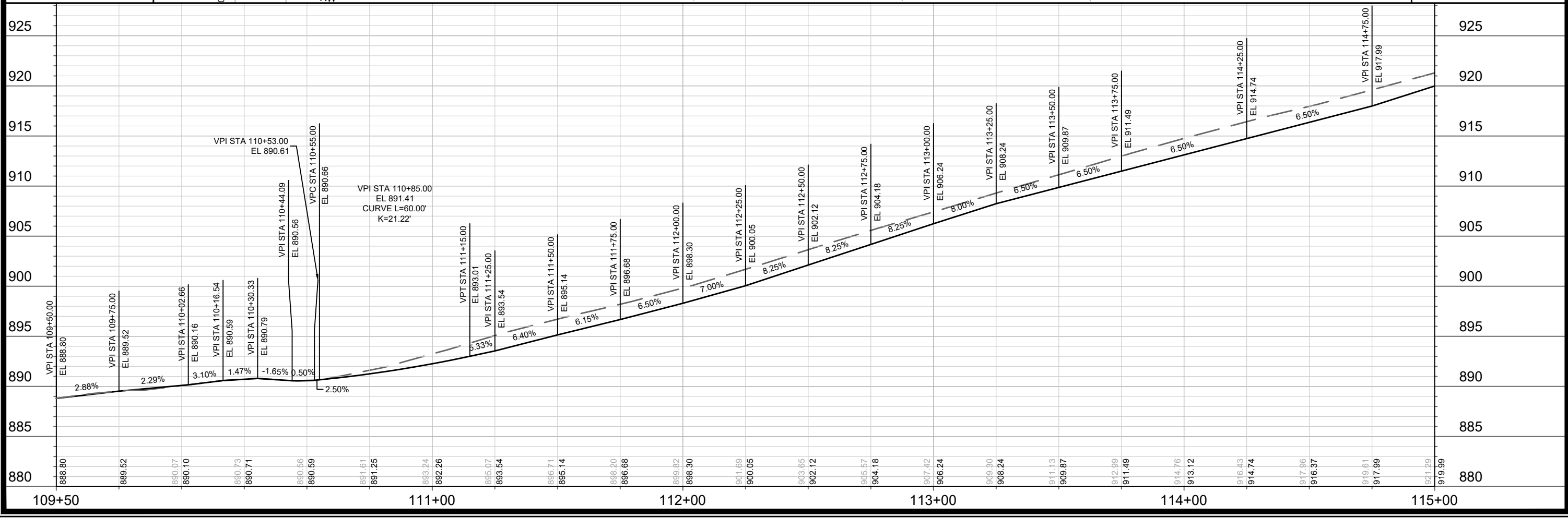
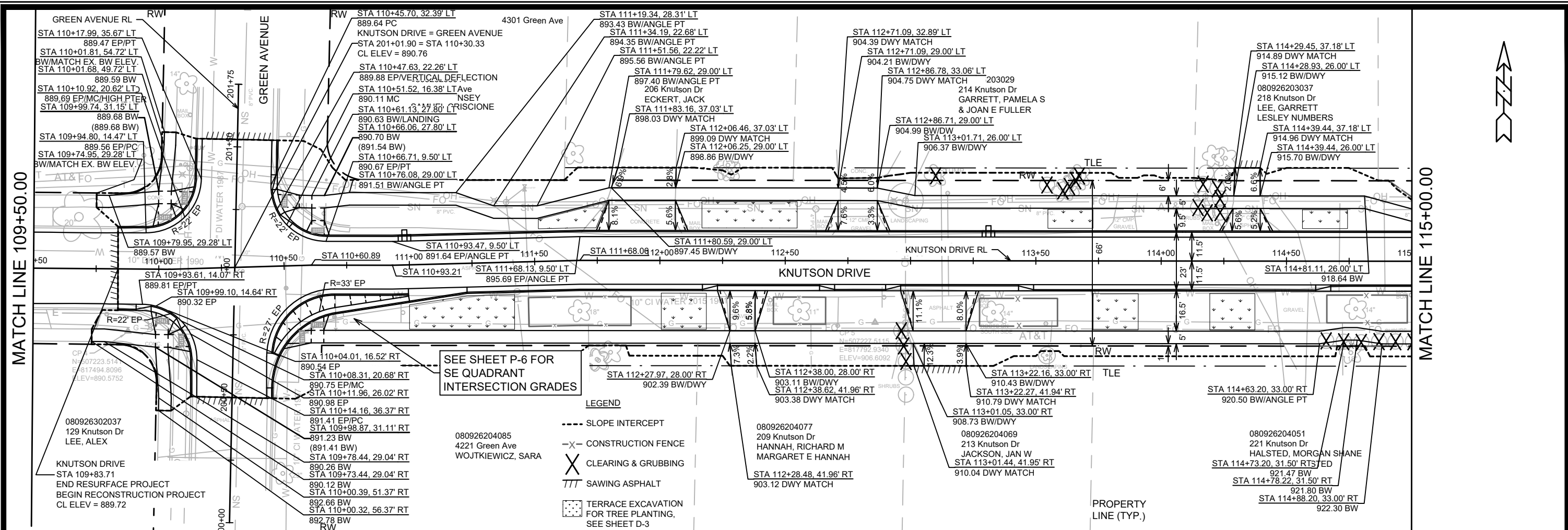


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MADISON, WI
CONTRACT NO: 8635

KNUTSON DRIVE PLAN AND PROFILE
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
P-2



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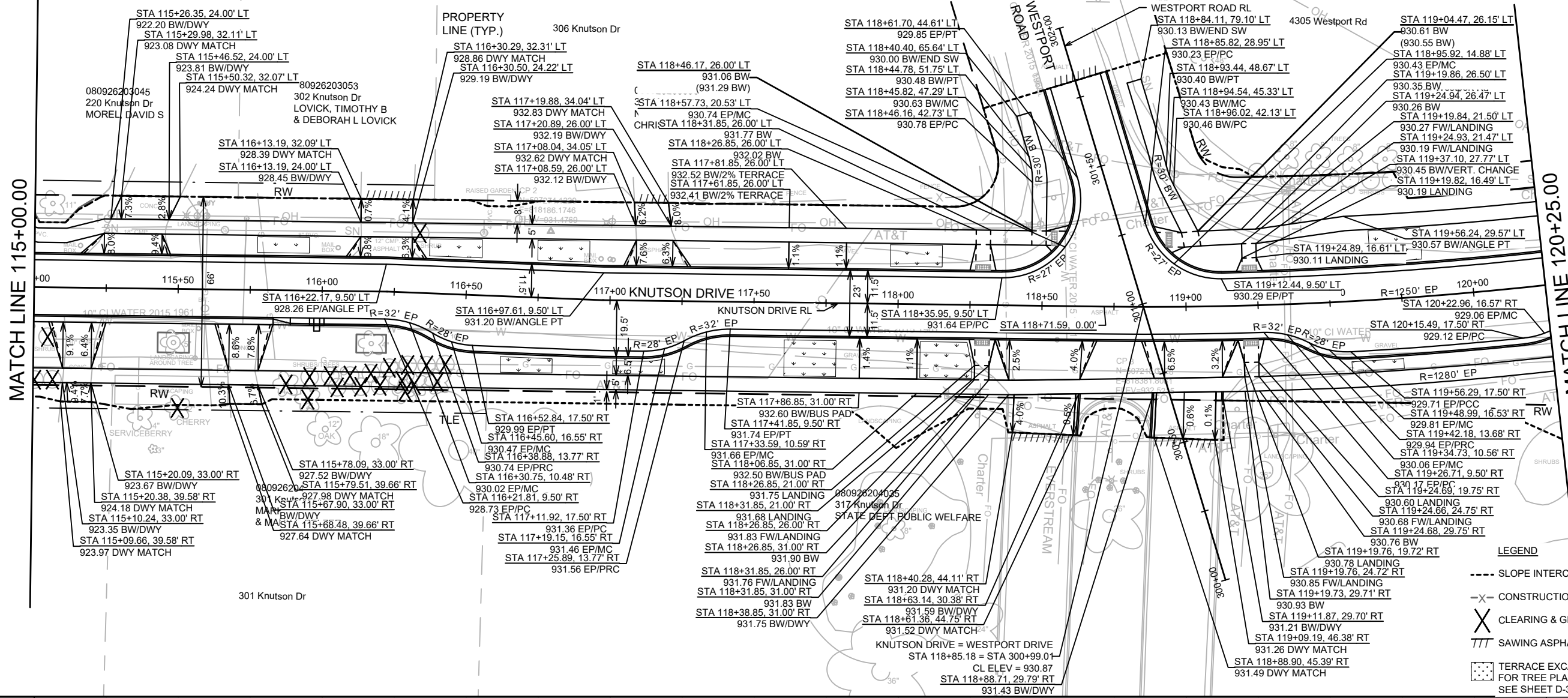
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CONTRACT NO: 8635

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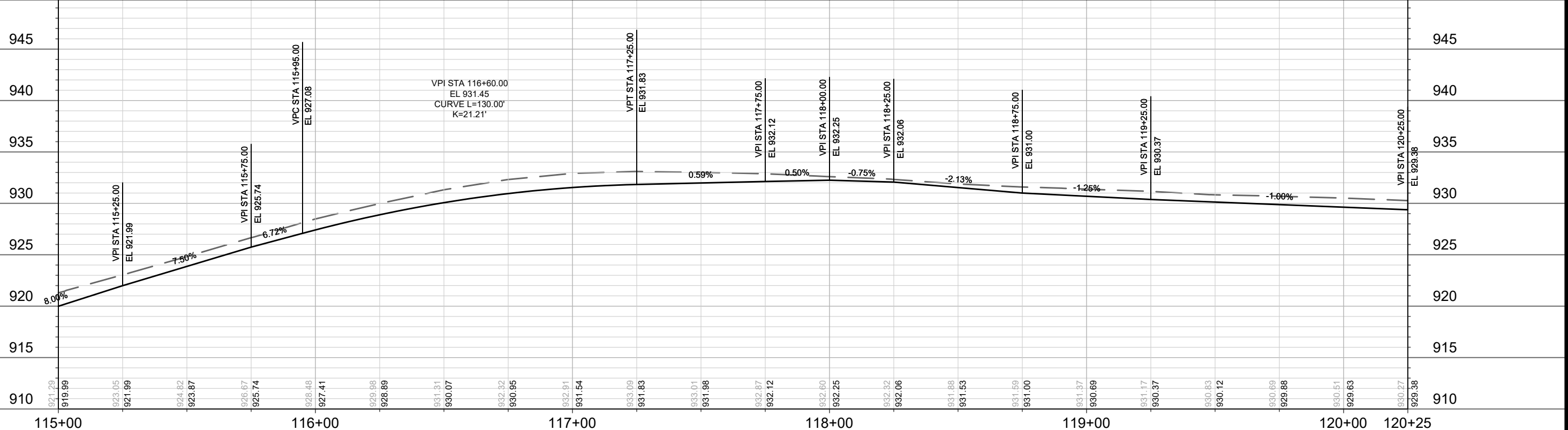
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MATCH LINE 115+00.00

MATCH LINE 120+25.00



- LEGEND**
- SLOPE INTERCEPT
 - X- CONSTRUCTION FENCE
 - X CLEARING & GRUBBING
 - /// SAWING ASPHALT
 - TERRACE EXCAVATION FOR TREE PLANTING, SEE SHEET D-3



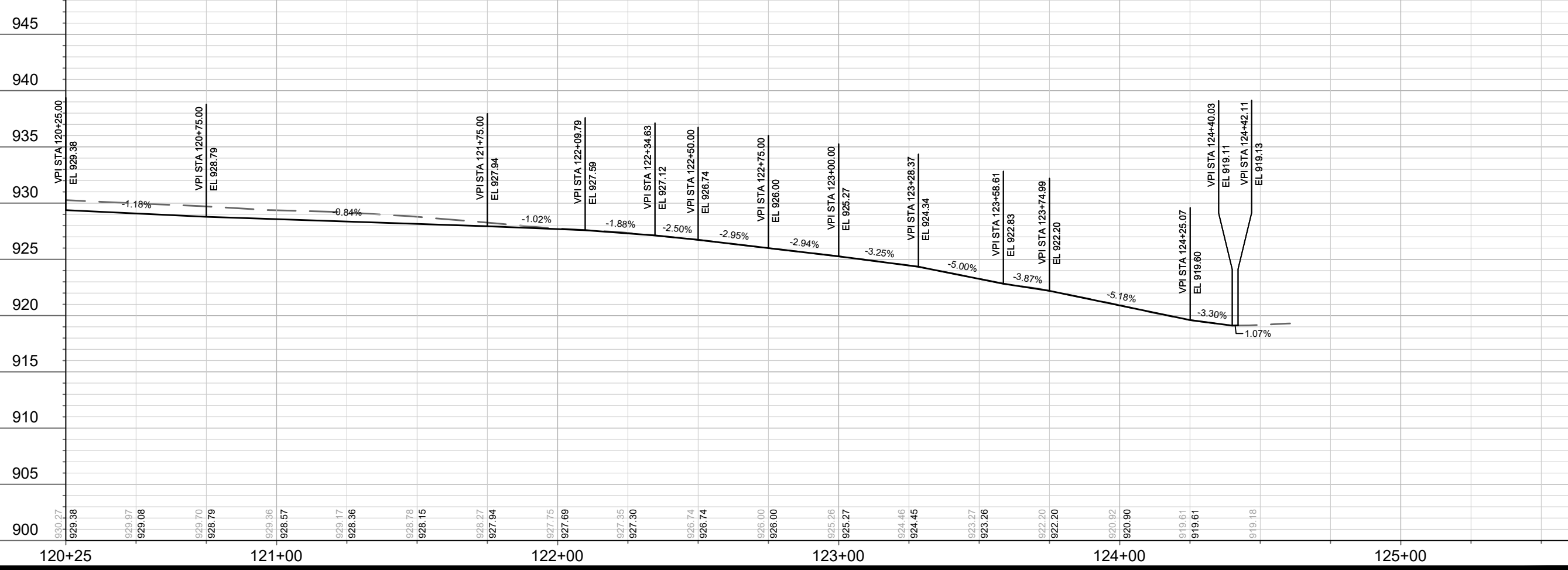
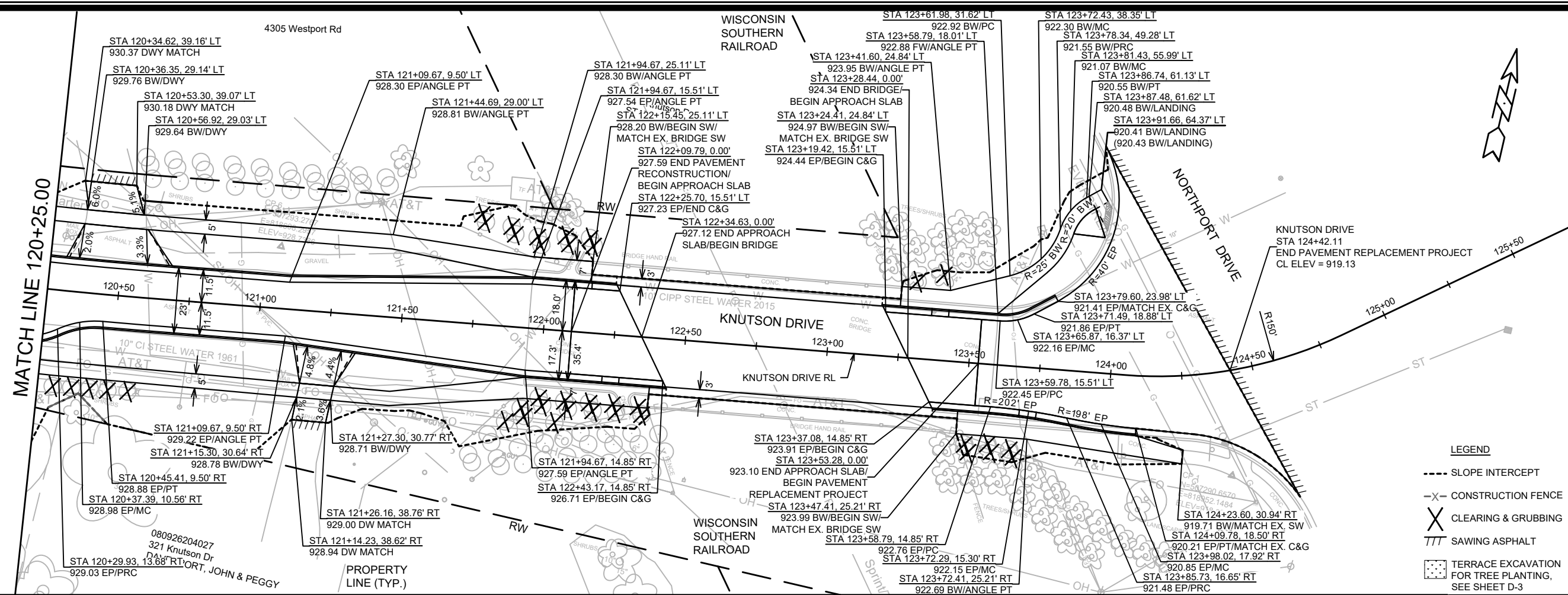
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MADISON, WI
CONTRACT NO: 8635

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

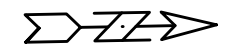
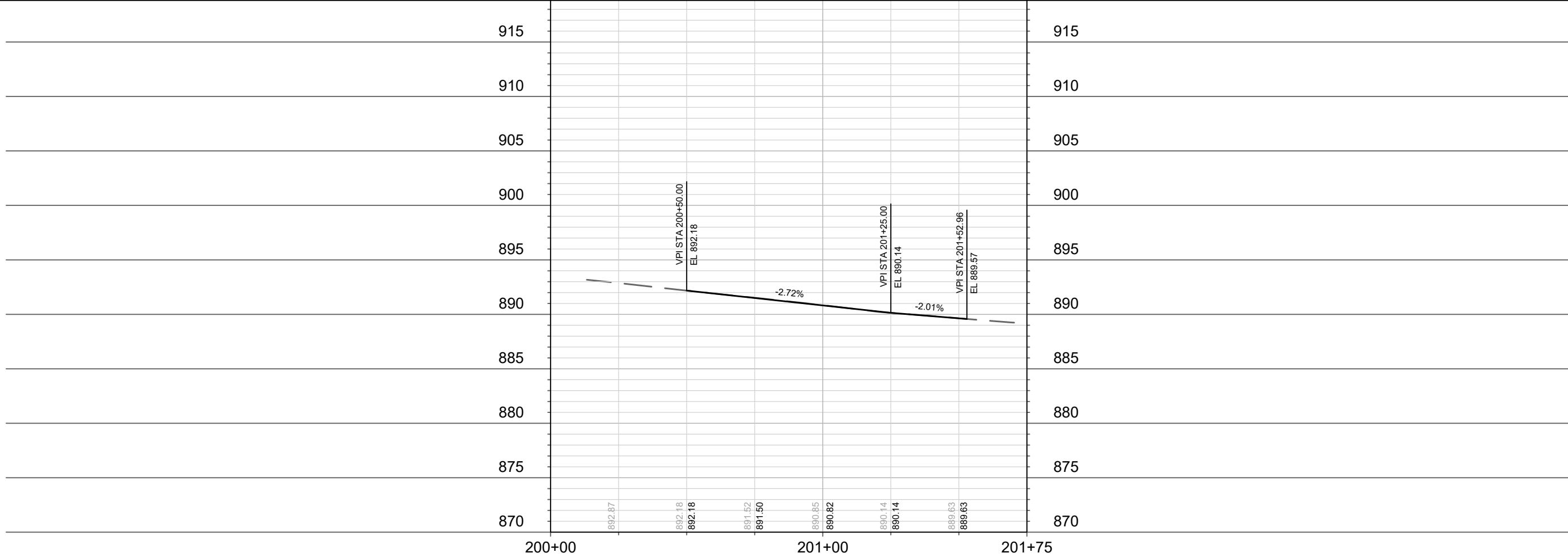
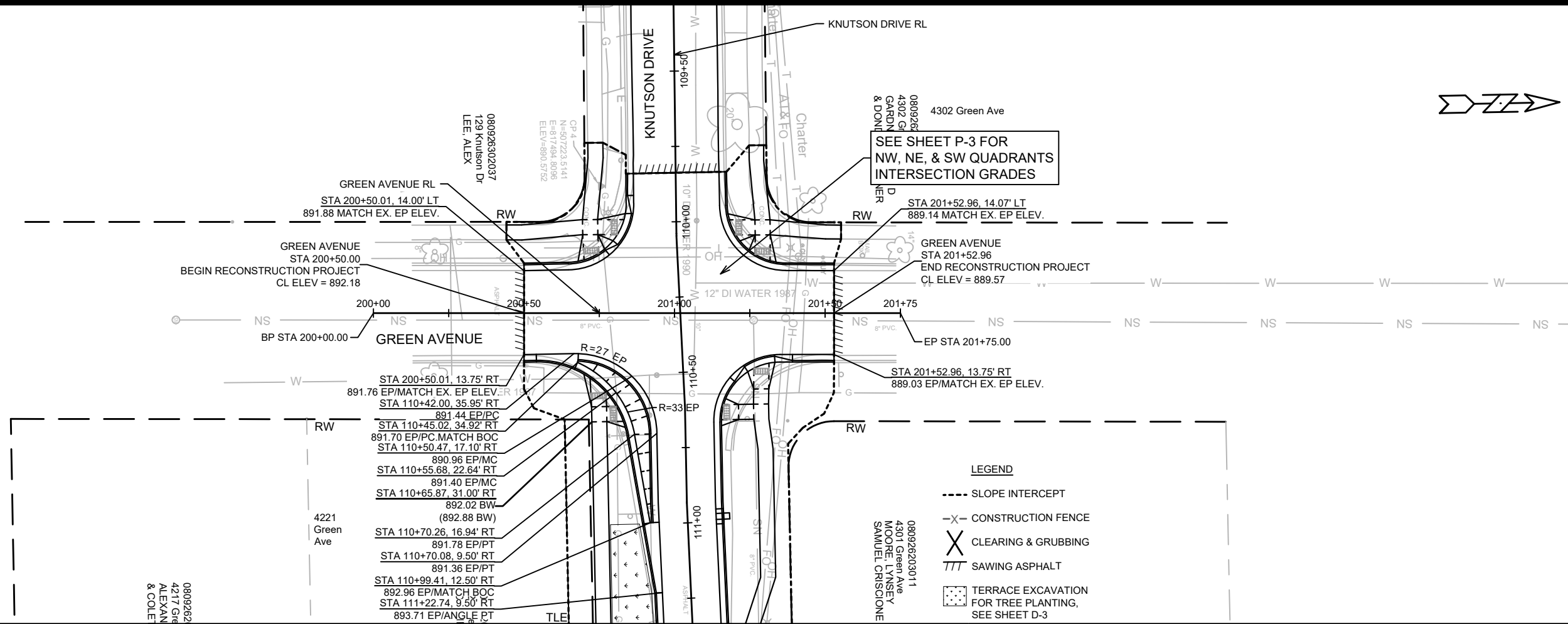


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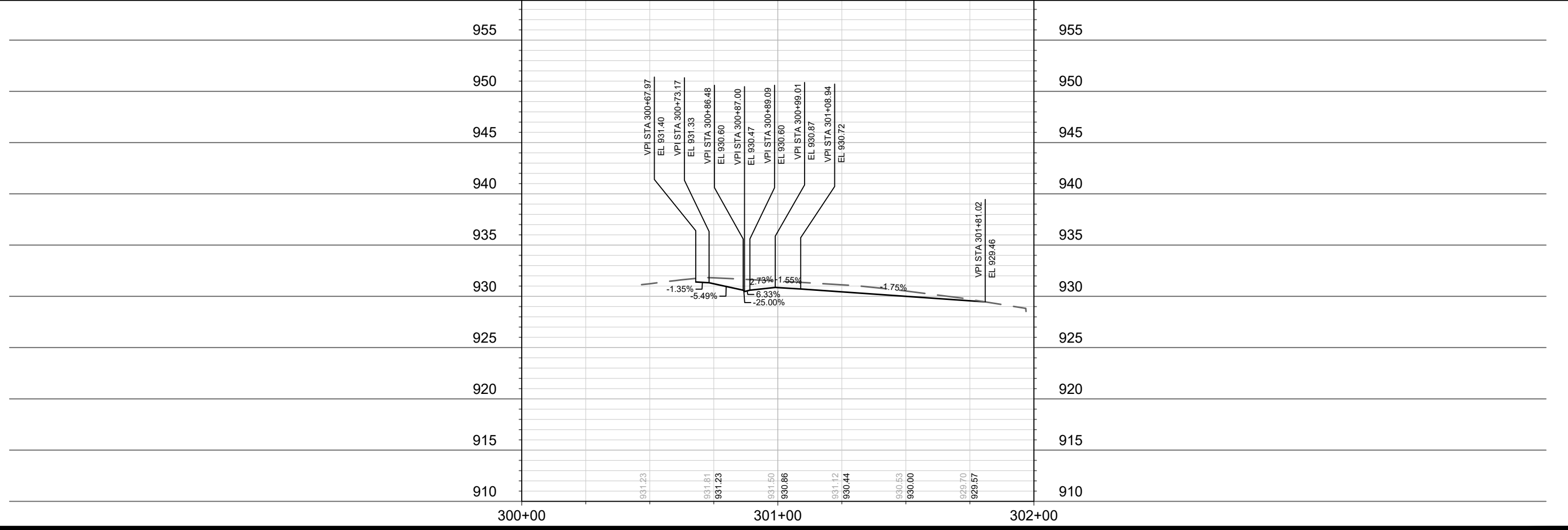
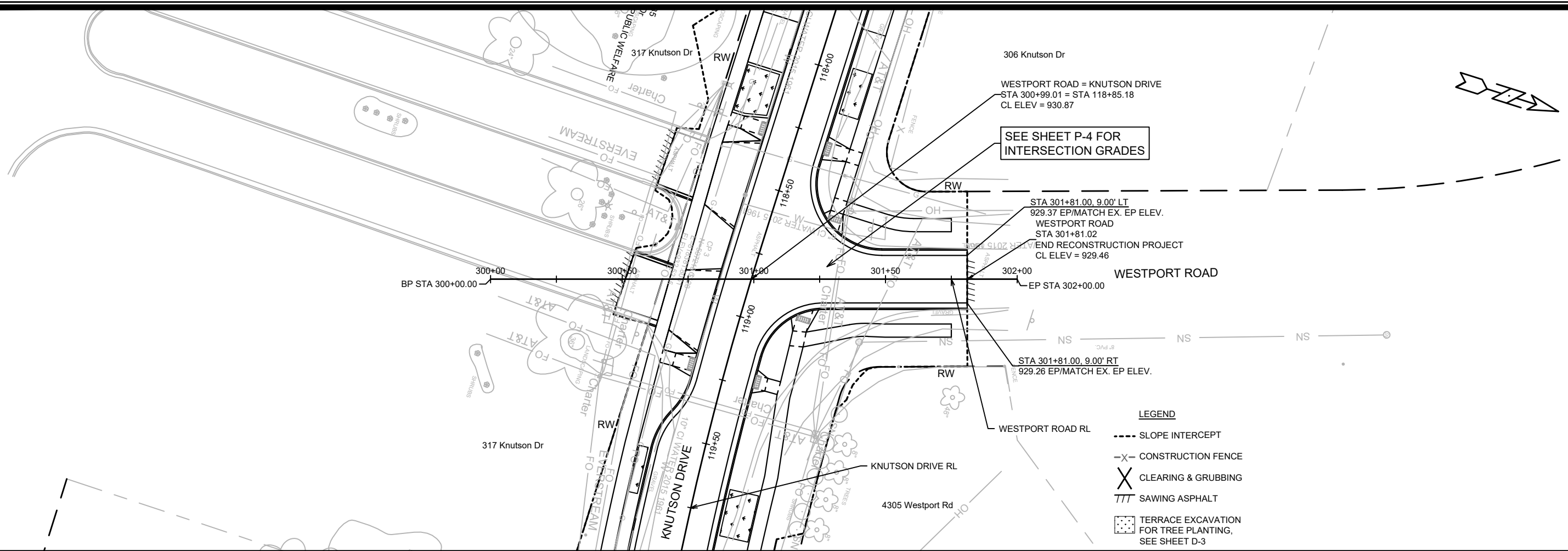
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13812		MADISON, WI		8635	
GREEN AVENUE PLAN AND PROFILE		KNUTSON DRIVE RESURFACING/RECONSTRUCTION		CONTRACT NO.:	
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P-6		P-6		P-6	

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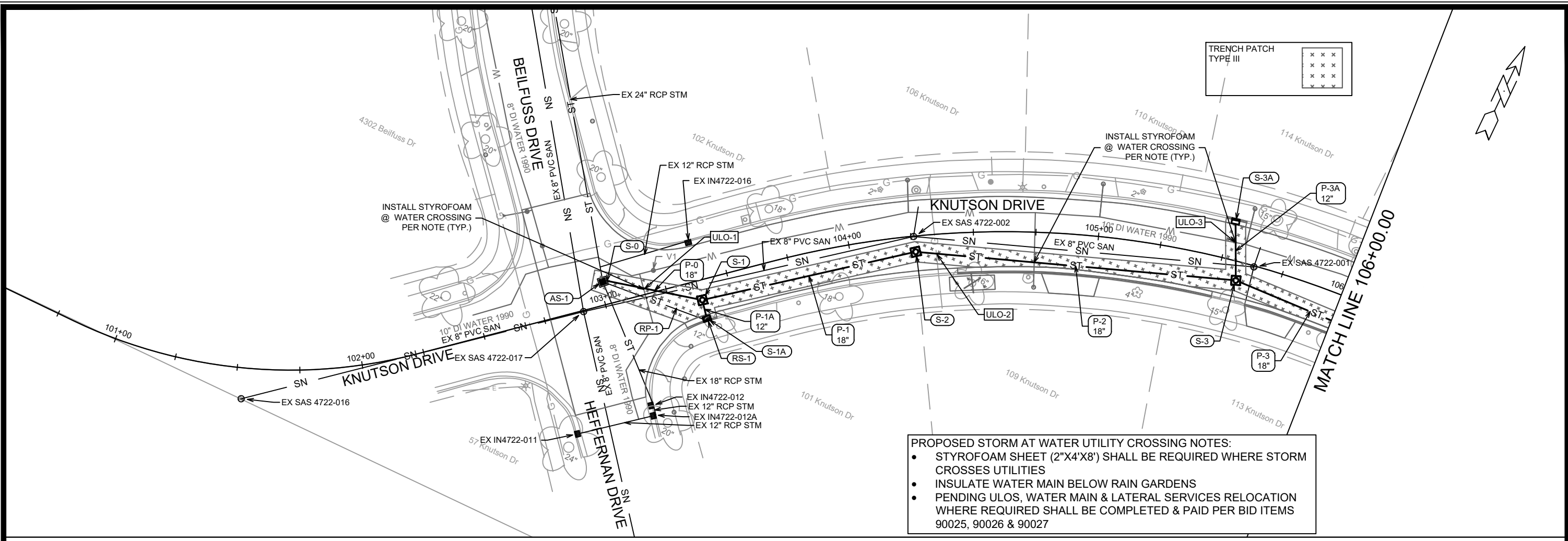


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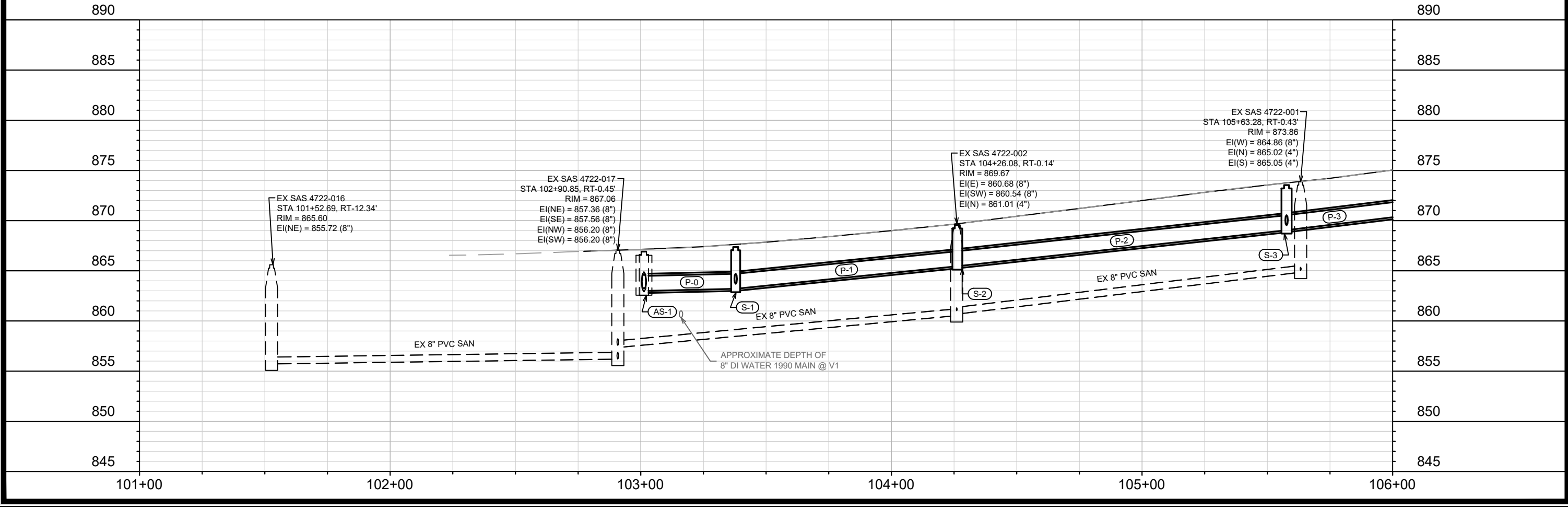
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 MADISON, WI
 8635
 CONTRACT NO:


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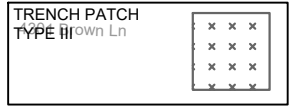
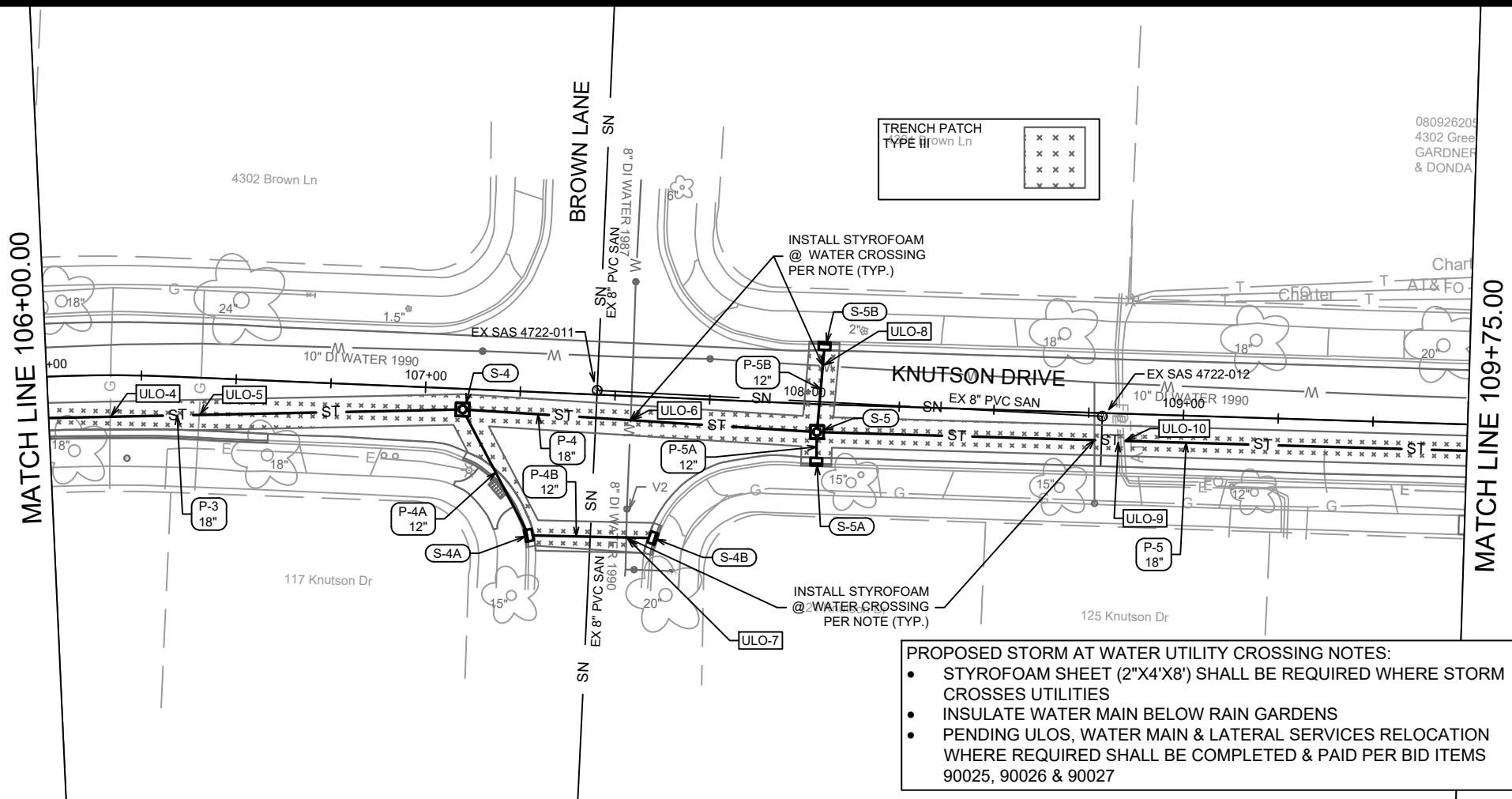
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- PROPOSED STORM AT WATER UTILITY CROSSING NOTES:**
- STYROFOAM SHEET (2\"/>



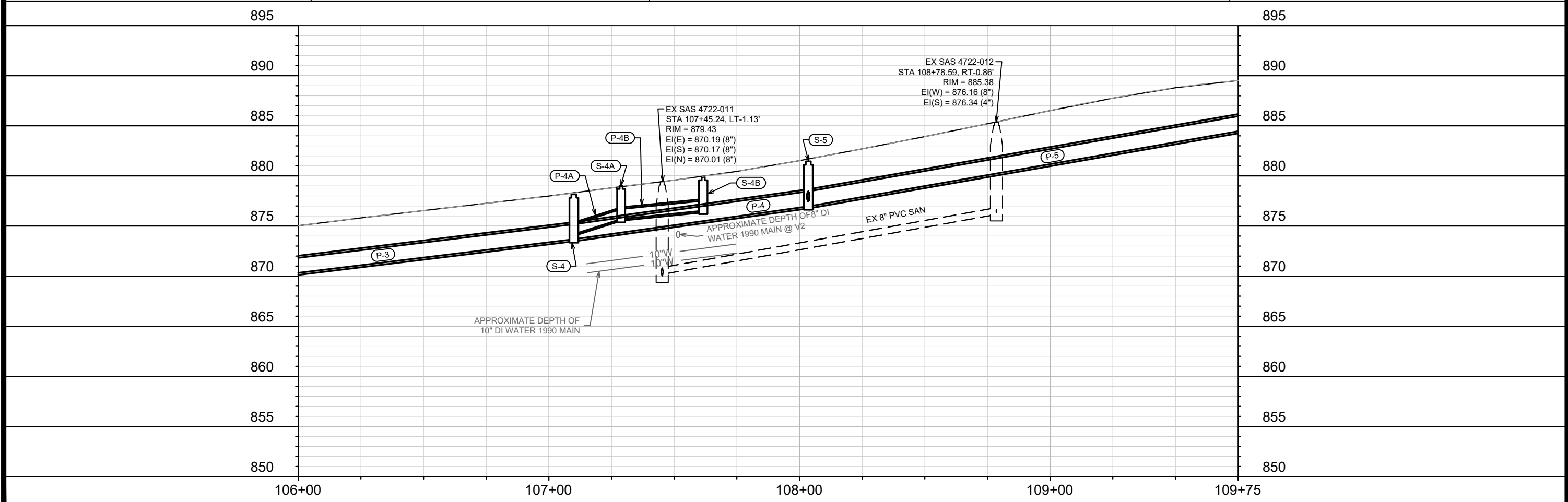
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080926205
4302 Gree
GARDNER
& DONDA

PROPOSED STORM AT WATER UTILITY CROSSING NOTES:

- STYROFOAM SHEET (2"X4'X8") SHALL BE REQUIRED WHERE STORM CROSSES UTILITIES
- INSULATE WATER MAIN BELOW RAIN GARDENS
- PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90025, 90026 & 90027



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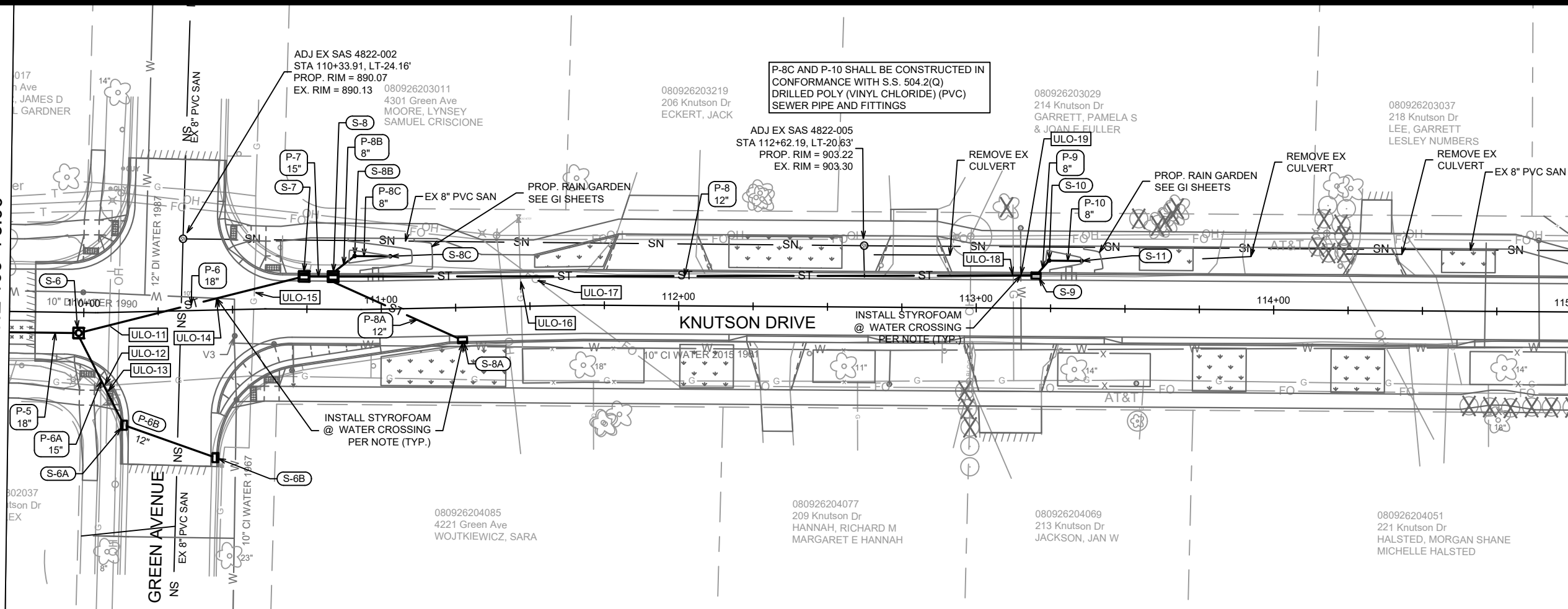
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8635
CONTRACT NO:

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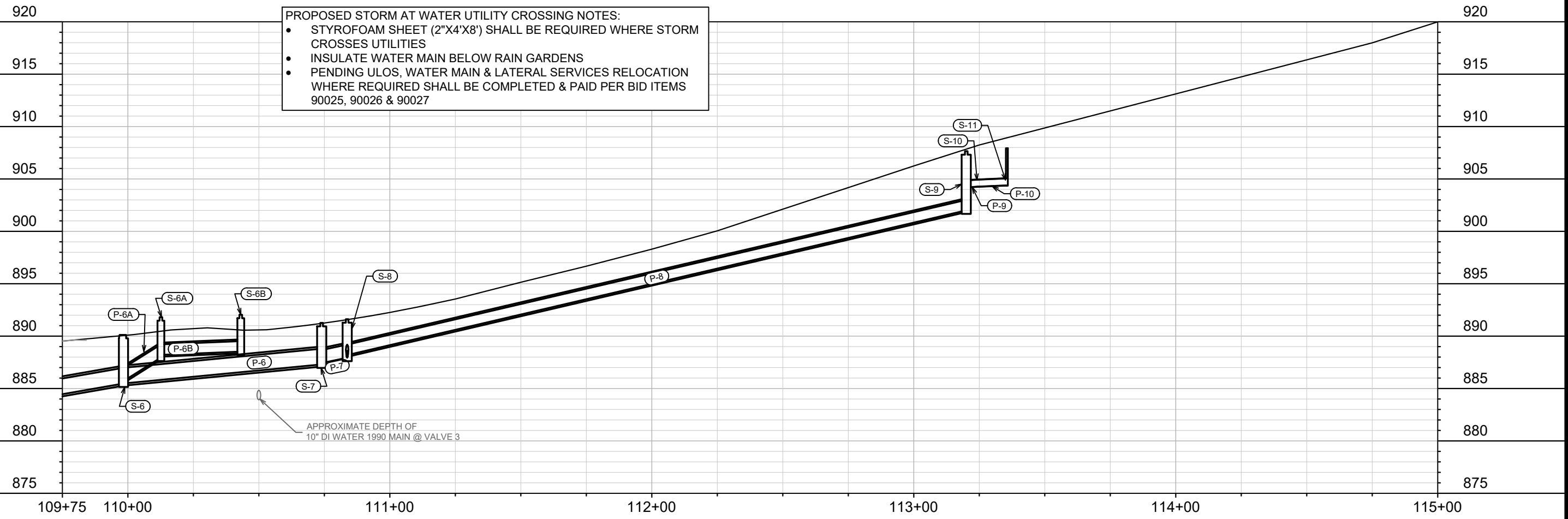
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MATCH LINE 109+75.00



MATCH LINE 115+00.00

- PROPOSED STORM AT WATER UTILITY CROSSING NOTES:
- STYROFOAM SHEET (2'X4'X8') SHALL BE REQUIRED WHERE STORM CROSSES UTILITIES
 - INSULATE WATER MAIN BELOW RAIN GARDENS
 - PENDING ULOS, WATER MAIN & LATERAL SERVICES RELOCATION WHERE REQUIRED SHALL BE COMPLETED & PAID PER BID ITEMS 90025, 90026 & 90027



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MADISON, WI
8635
CONTRACT NO:

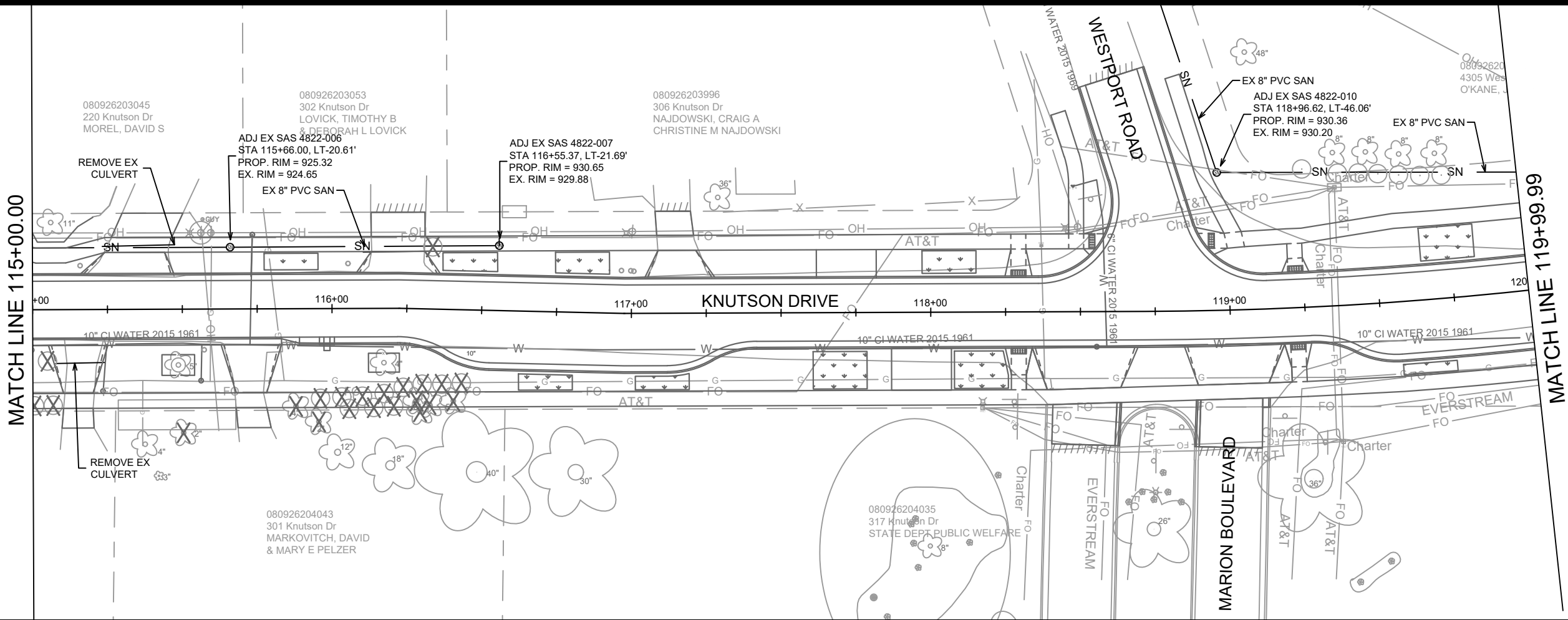
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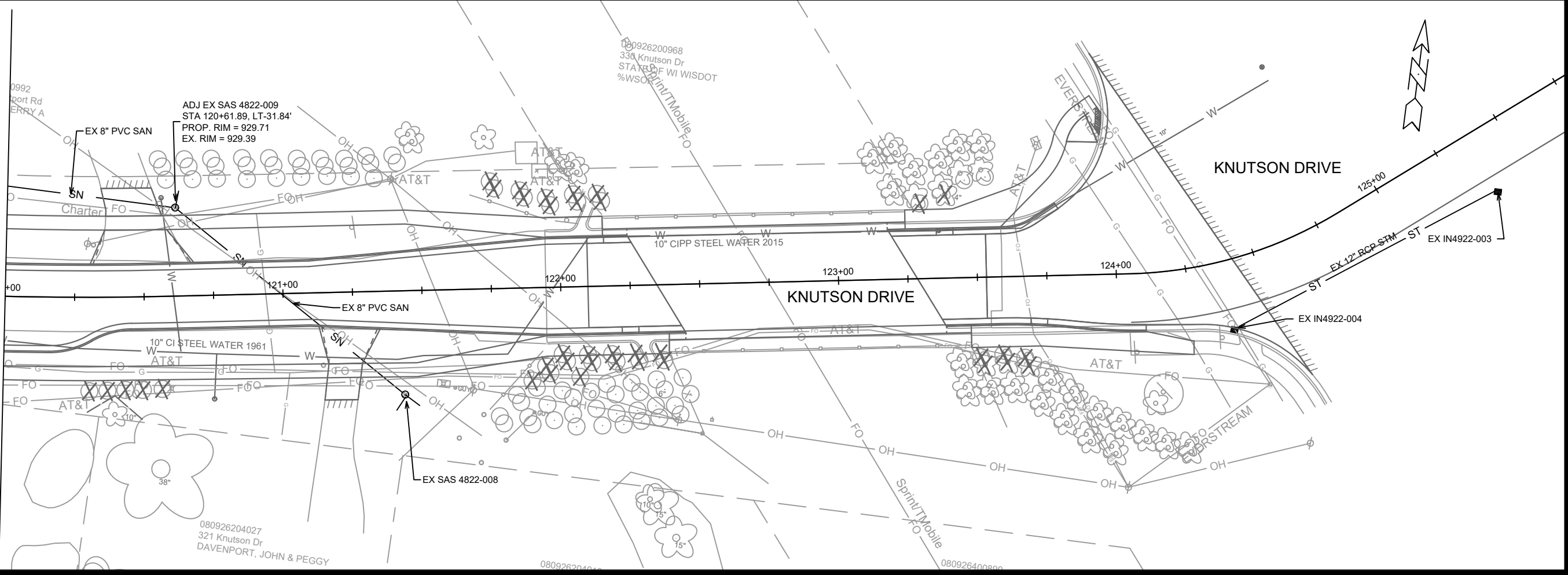
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MATCH LINE 115+00.00

MATCH LINE 119+99.99



MATCH LINE 119+99.99



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13812
 MADISON, WI
 CONTRACT NO: 8635

KNUTSON DRIVE UTILITY PLAN
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
 U-4

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

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

PROPOSED STORM STRUCTURES

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	865.45	4.10	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	873.68	4.48	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	876.96	4.49	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	885.48	4.64	W/R-1550-0054
S-6A	110+12.61	RT-38.00	H INLET	892.05	887.96	4.09	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	891.26	886.80	4.46	W/R-3067-7004-V
S-8	110+83.71	LT-11.00	3'x3' STORM SAS	891.62	887.94	3.68	W/R-1550-0054
S-8A	111+27.09	RT-11.00	H INLET	894.34	891.00	3.34	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	907.65	902.00	5.65	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]

REMOVE STORM STRUCTURES

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	--	--	--	-

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)

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
KNUTSON DRIVE										
P-0	S-0	S-1	863.00	863.20	41	37	0.55%	18"	RCP	-
P-1	S-1	S-2	863.20	865.45	87	84	2.67%	18"	RCP	-
P-1A	S-1	S-1A	863.70	863.74	8	5	0.78%	12"	RCP	-
P-2	S-2	S-3	865.45	869.04	128	125	2.87%	18"	RCP	-
P-3	S-3	S-4	869.04	873.68	151	148	3.14%	18"	RCP	-
P-3A	S-3	S-3A	869.54	869.87	24	21	1.57%	12"	RCP	-
P-4	S-4	S-5	873.68	876.96	94	91	3.62%	18"	RCP	-
P-4A	S-4	S-4A	874.18	875.70	38	34	4.44%	12"	RCP	-
P-4B	S-4A	S-4B	875.70	876.53	33	31	2.70%	12"	RCP	-
P-5	S-5	S-6	876.96	885.48	195	192	4.44%	18"	RCP	-
P-5A	S-5	S-5A	877.46	877.67	8	5	3.91%	12"	RCP	-
P-5B	S-5	S-5B	877.46	877.75	23	20	1.43%	12"	RCP	-
P-6	S-6	S-7	885.48	886.80	78	75	1.76%	18"	RCP	-
P-6A	S-6	S-6A	885.72	887.96	35	31	7.13%	15"	RCP	-
P-6B	S-6A	S-6B	888.21	888.52	33	31	1.01%	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	6.09%	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 PIPES

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	-

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

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)

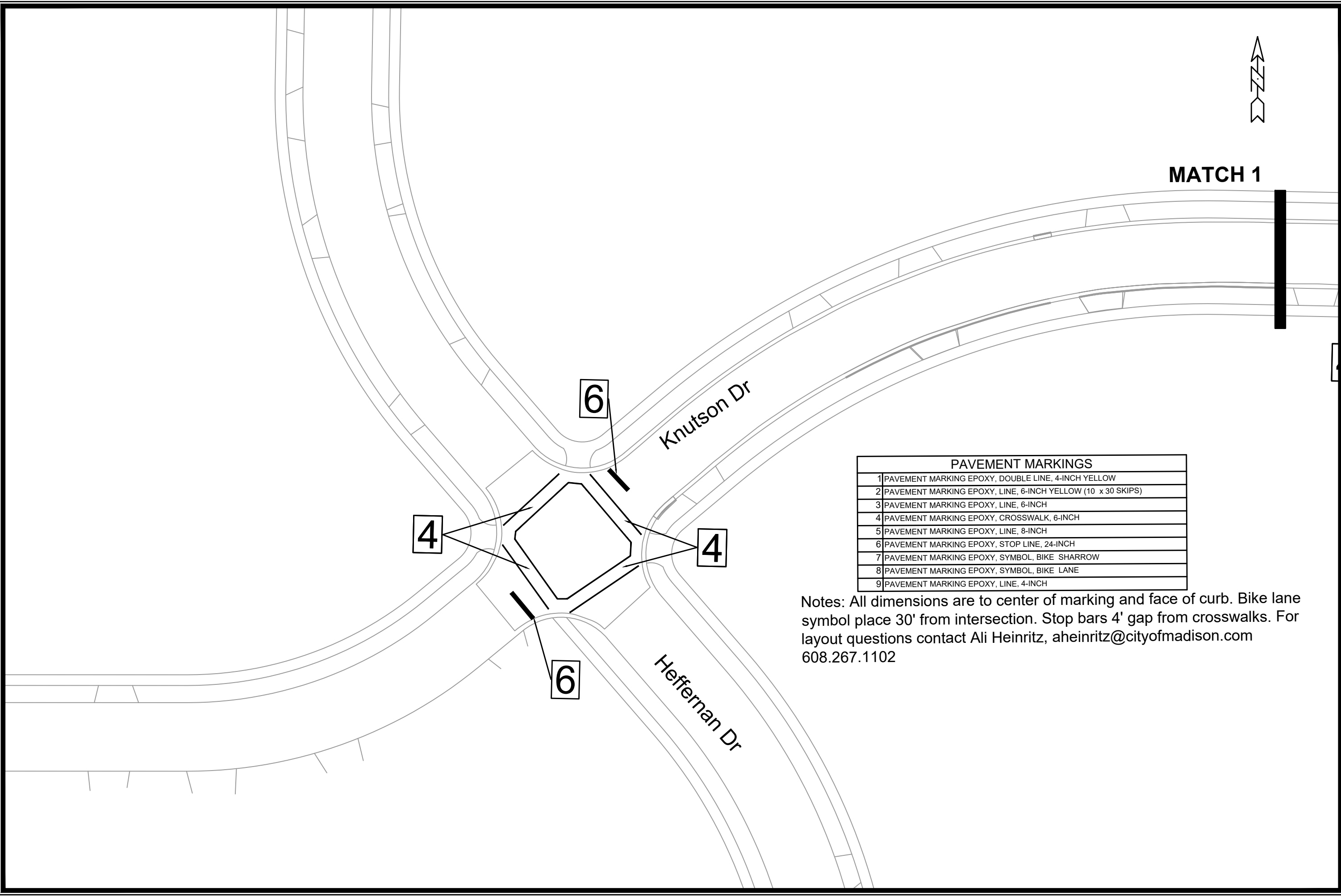
ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES	NOTES
KNUTSON DRIVE						
ULO-1	103+16.35	LT-2.12	WATER	-	-	
ULO-2	104+34.66	RT-7.74	GAS	-	-	
ULO-3	105+53.87	LT-7.09	WATER	-	-	
ULO-4	106+16.75	RT-10.96	GAS	-	-	
ULO-5	106+40.66	RT-9.81	GAS	-	-	
ULO-6	107+54.37	RT-6.33	WATER	-	-	
ULO-7	107+54.56	RT-37.26	WATER	-	-	
ULO-8	108+04.53	LT-10.15	WATER	-	-	
ULO-9	108+82.99	RT-7.17	ELECTRIC	-	-	
ULO-10	108+84.51	RT-7.17	FIBER	-	-	
ULO-11	110+08.42	RT-4.54	TELE	-	-	
ULO-12	110+06.30	RT-24.54	GAS	-	-	
ULO-13	110+07.34	RT-26.64	TELE	-	-	
ULO-14	110+48.04	LT-3.67	WATER	-	-	
ULO-15	110+57.45	LT-5.62	GAS	-	-	
ULO-16	111+46.97	LT-8.69	GAS	-	-	
ULO-17	111+52.40	LT-8.65	FIBER	-	-	
ULO-18	113+12.40	LT-9.44	GAS	-	-	
ULO-19	113+14.94	LT-9.46	WATER	-	-	

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:

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- 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.
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- ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
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MATCH 1

Knutson Dr

Heffernan Dr

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, ahleinritz@cityofmadison.com 608.267.1102

MARK	REVISION	DATE	BY
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13812
MADISON, WI
CONTRACT NO: 8635

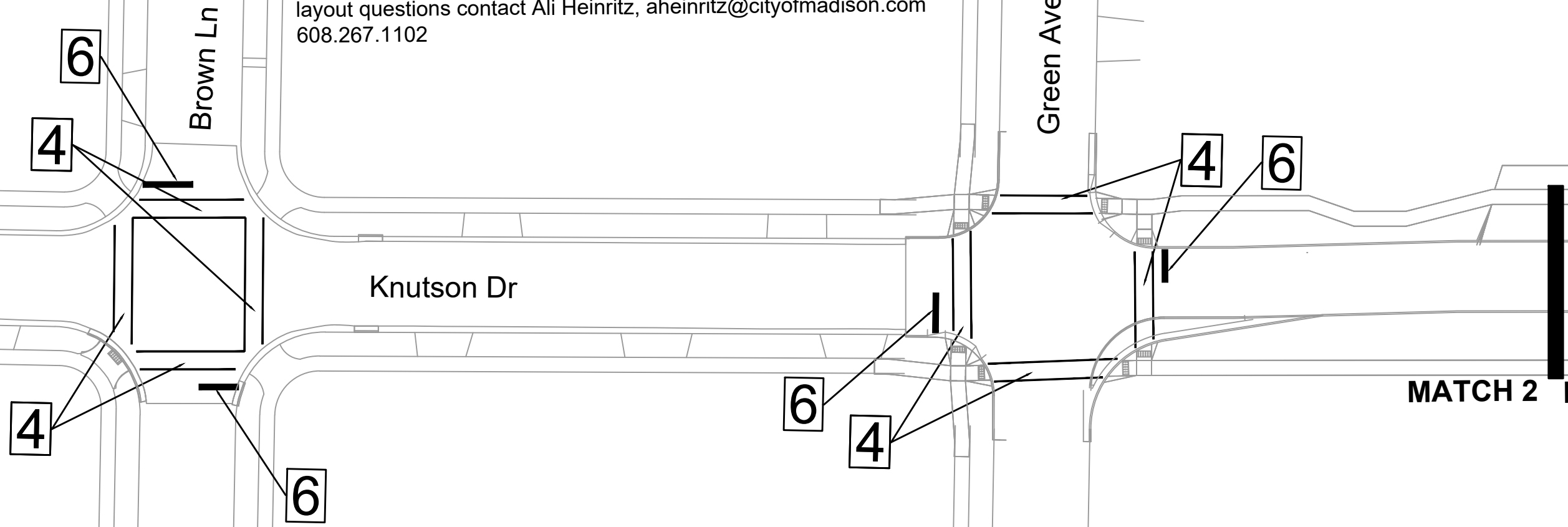
KNUTSON DRIVE PAVEMENT MARKING PLAN
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
PM-1

SKIPS)

MATCH 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

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



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MADISON, WI

8635

CONTRACT NO:

KNUTSON DRIVE PAVEMENT MARKING PLAN

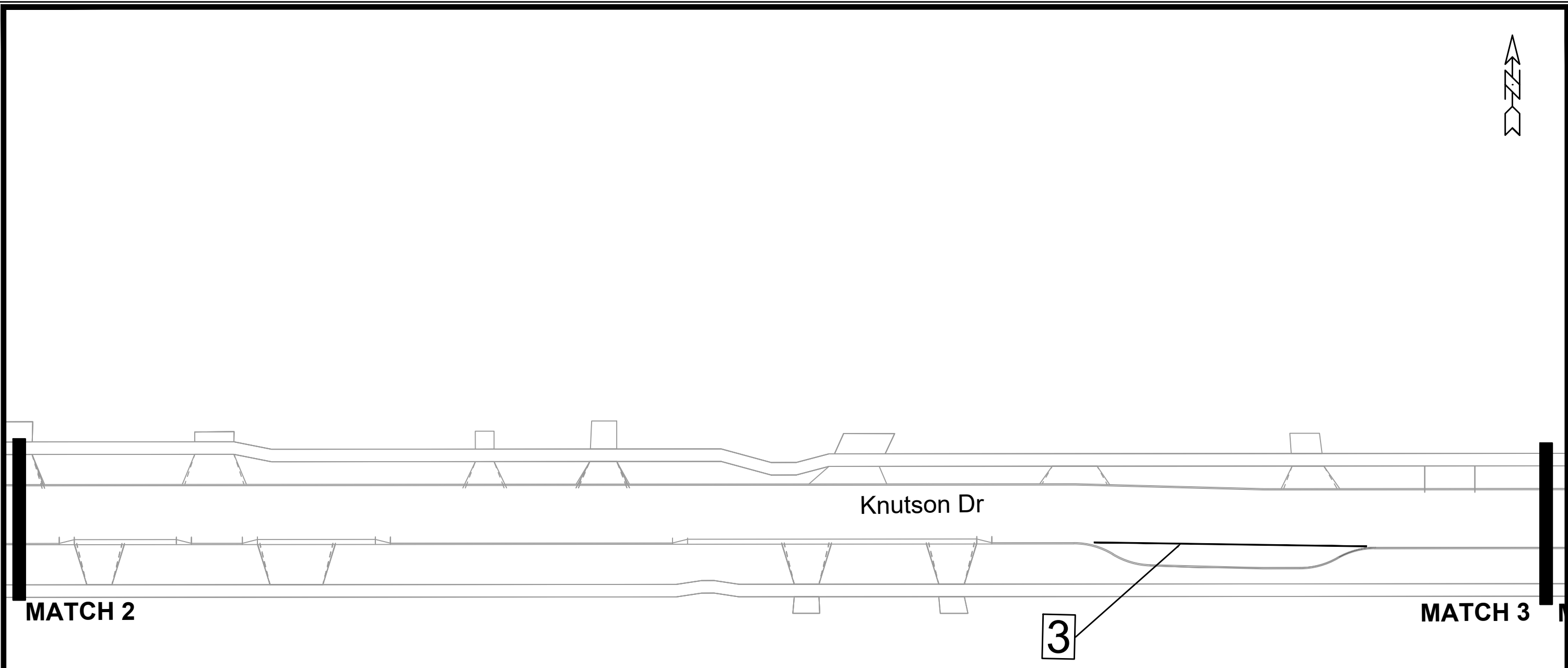
KNUTSON DRIVE RESURFACING/RECONSTRUCTION

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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

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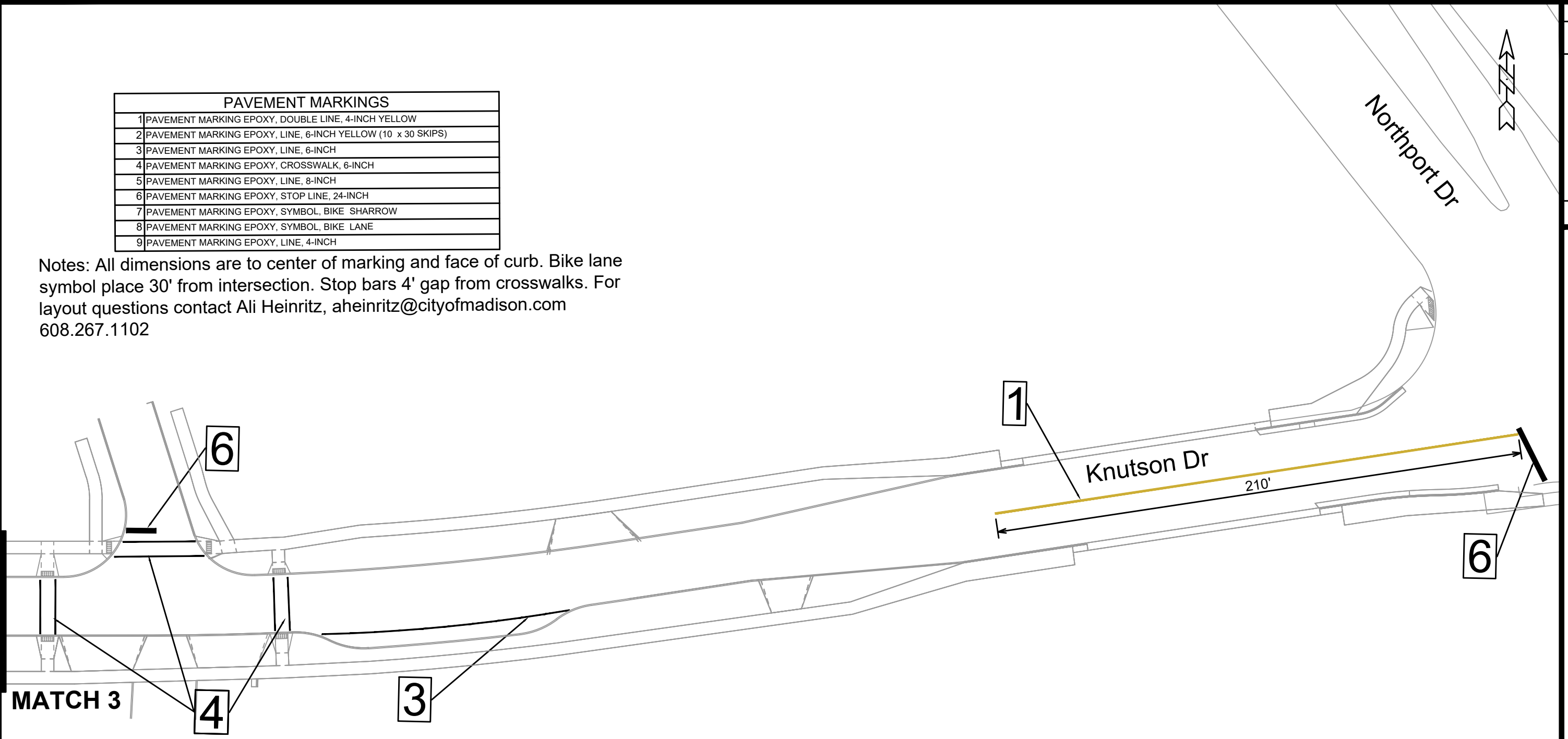
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 MADISON, WI
 8635
 CONTRACT NO:
 KNUTSON DRIVE PAVEMENT MARKING PLAN
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
 PM-3

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

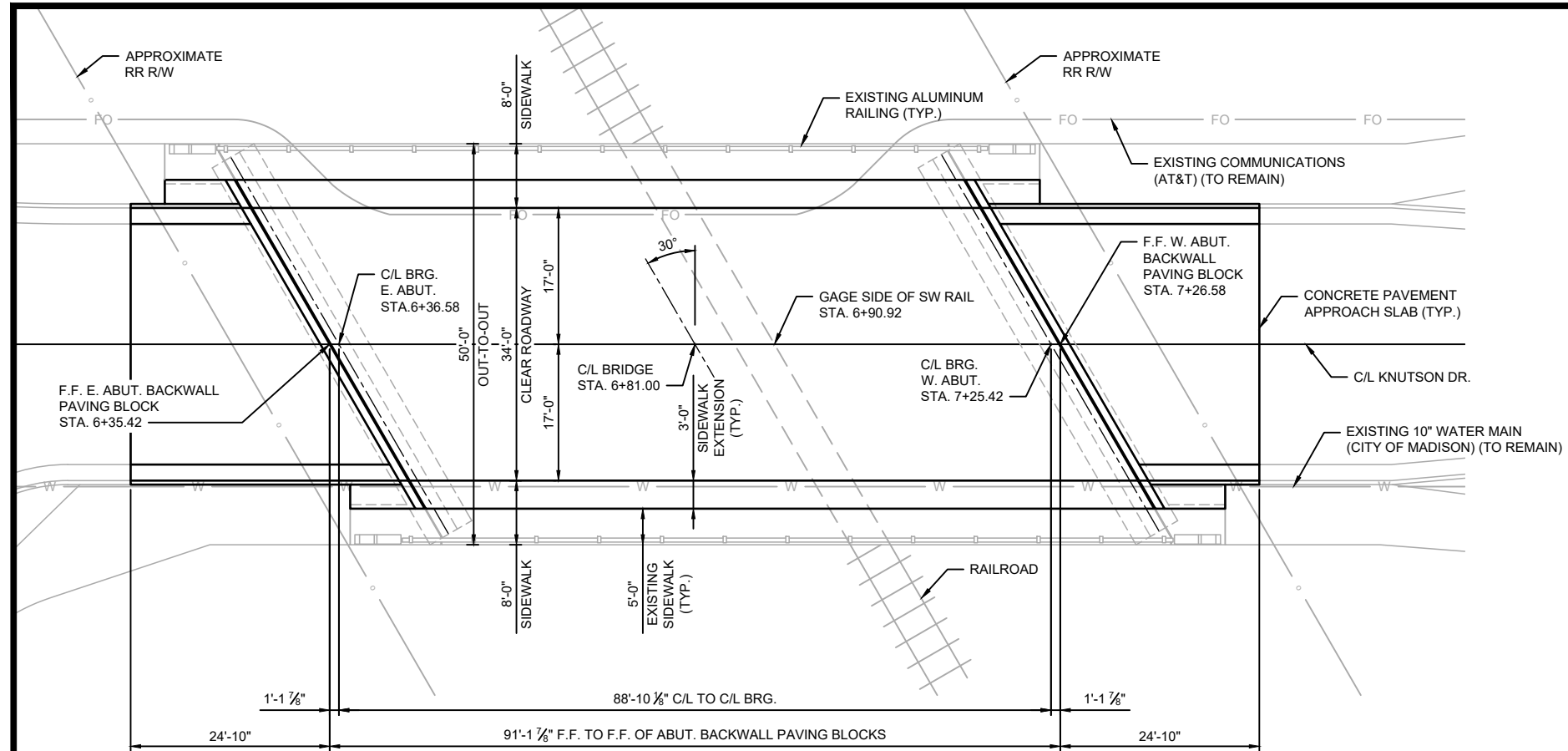


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13812		5/01/2024	3:16 PM

13812
 MADISON, WI
 CONTRACT NO: 8635
 KNUTSON DRIVE PAVEMENT MARKING PLAN
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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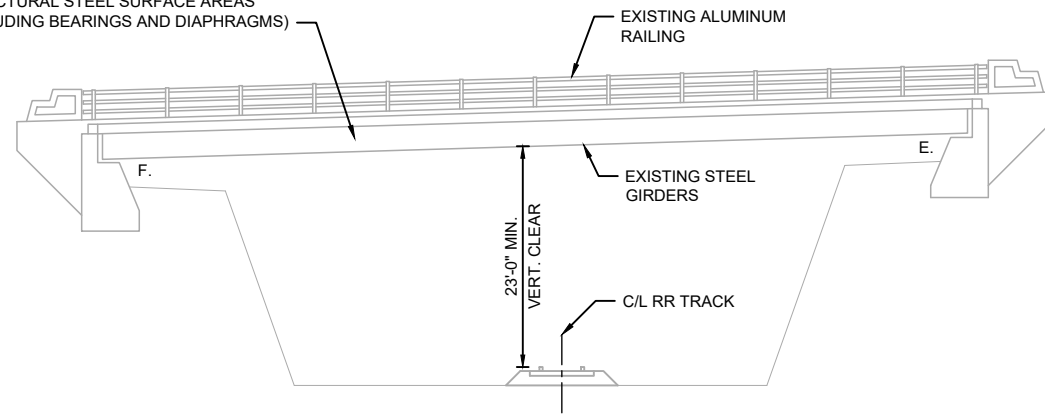


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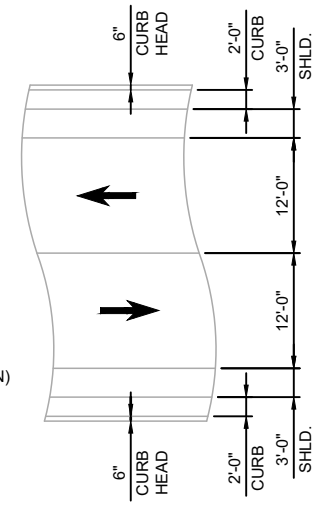


PLAN
(ONE SPAN STEEL GIRDER)

ABRASIVE BLAST AND REPAINT ALL STRUCTURAL STEEL SURFACE AREAS (INCLUDING BEARINGS AND DIAPHRAGMS)



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

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.

NO.	REVISIONS	DATE:

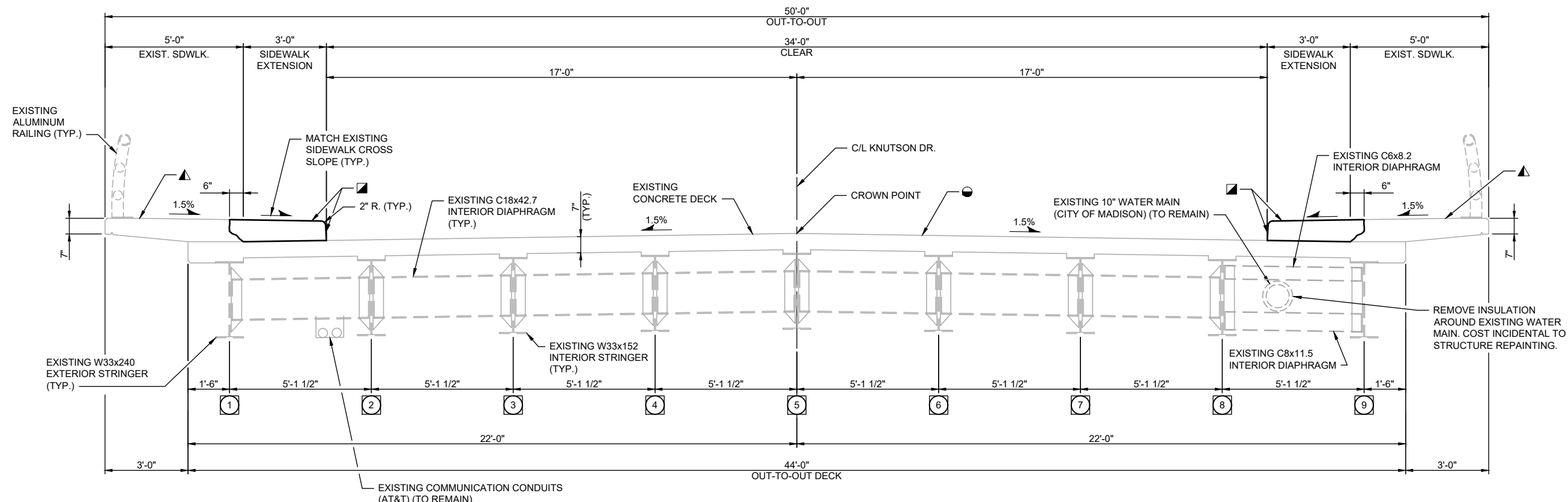
GENERAL PLAN
KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN



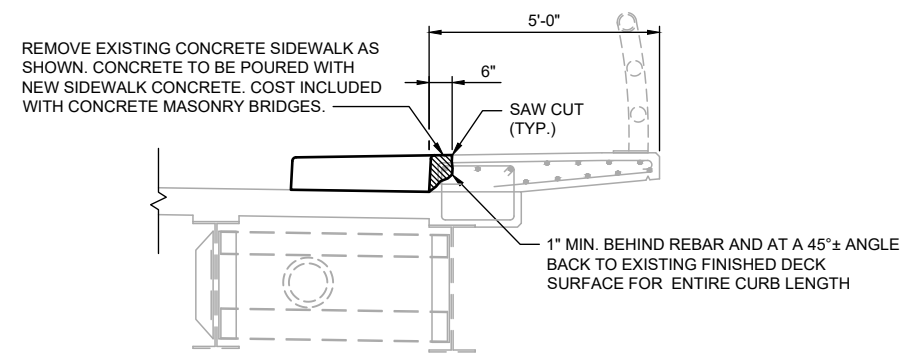
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S-1



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

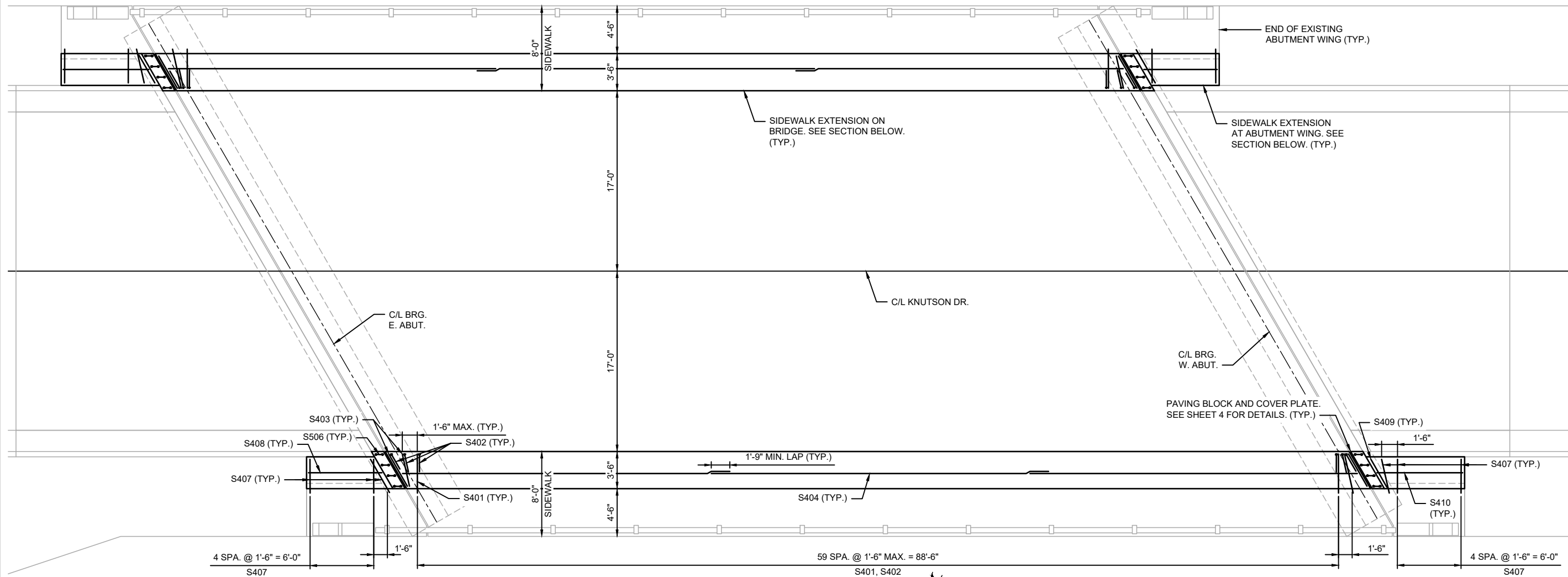
DATE:	NO.	REVISIONS

CROSS SECTION & QUANTITIES
 KNUTSON DRIVE BRIDGE P-13-748
 CITY OF MADISON
 DANE COUNTY, WISCONSIN

JOB NO.
1020.128
 PROJECT MGR.
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S-2



**SUPERSTRUCTURE
BILL OF BARS**

COATED: 1050 LBS

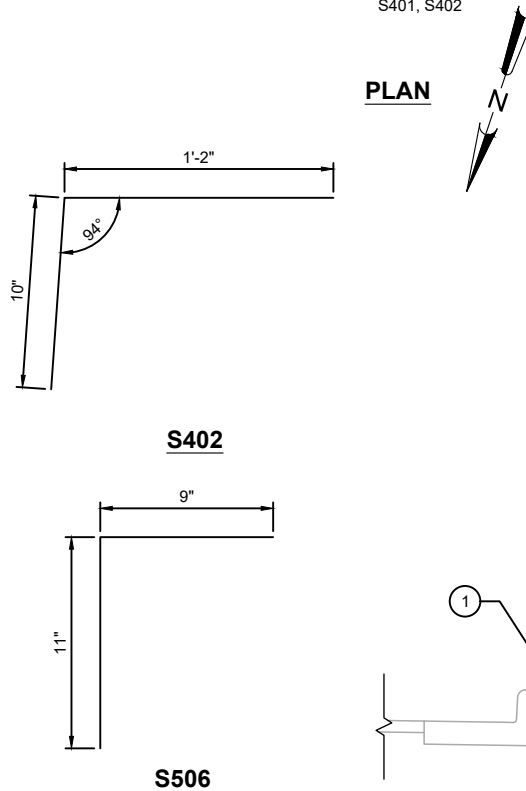
BAR MARK	NO REQD	LENGTH	BENT	COAT	LOCATION
▲ S401	120	3'-8"		X	SIDEWALK - TRANSVERSE - DOWEL
▲ S402	128	1'-11"	X	X	SIDEWALK - TRANSVERSE - DOWEL
S403	8	3'-2"		X	SIDEWALK - TRANSVERSE
S404	18	31'-5"		X	SIDEWALK - LONGIT.
S505	8	3'-8"		X	SIDEWALK - PAVING BLOCK - TRANSVERSE
▲ S506	32	1'-7"	X	X	SIDEWALK - 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.

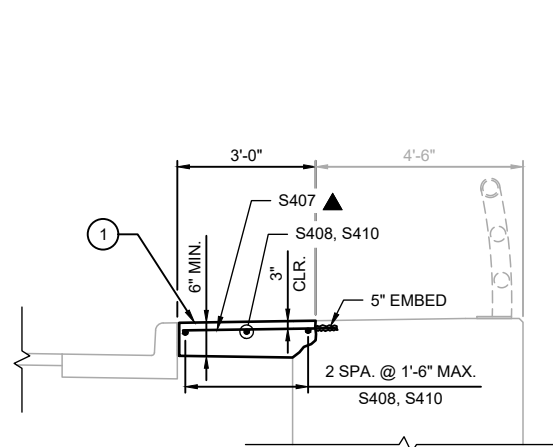
PLAN



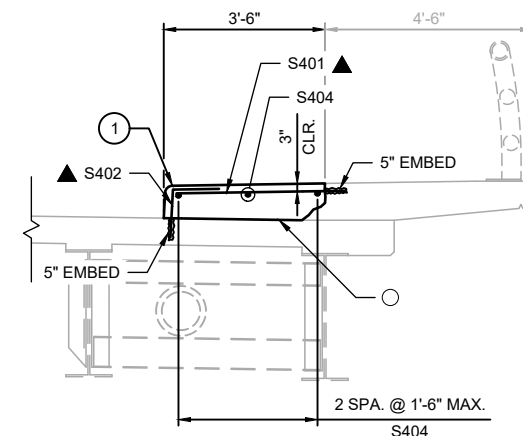
LEGEND:

- 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



SUPERSTRUCTURE PLAN & DETAILS

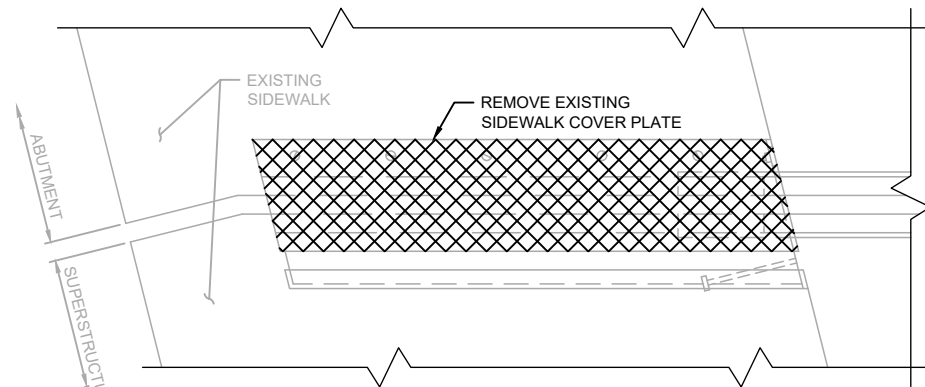
KNUTSON DRIVE BRIDGE P-13-748
CITY OF MADISON
DANE COUNTY, WISCONSIN

NO.	REVISIONS	DATE

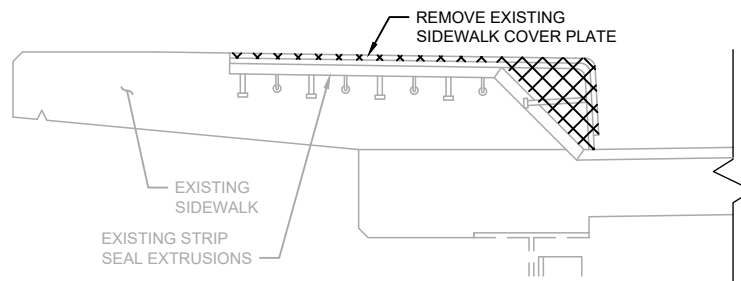
JOB NO.
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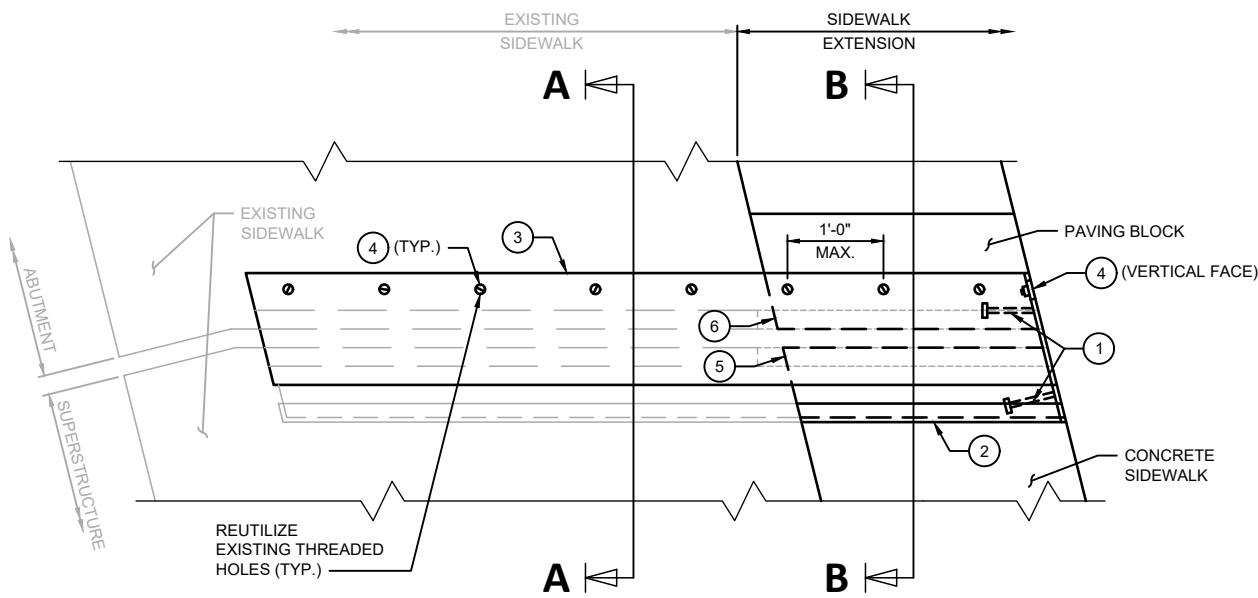
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S-3



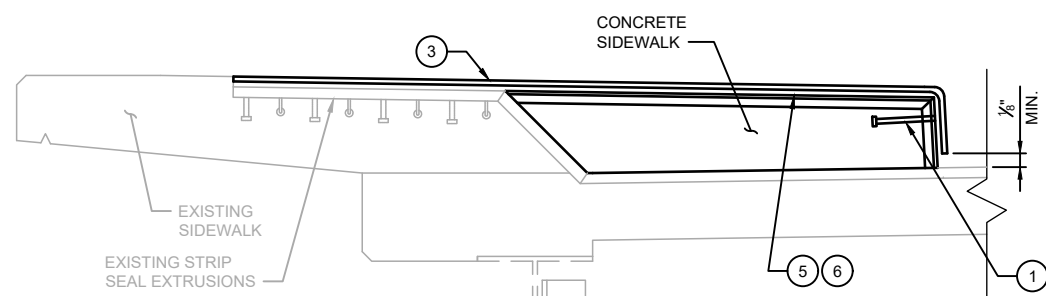
EXISTING PLAN AT SIDEWALK
(4 LOCATIONS TOTAL. 2 AS SHOWN. 2 SIMILAR)



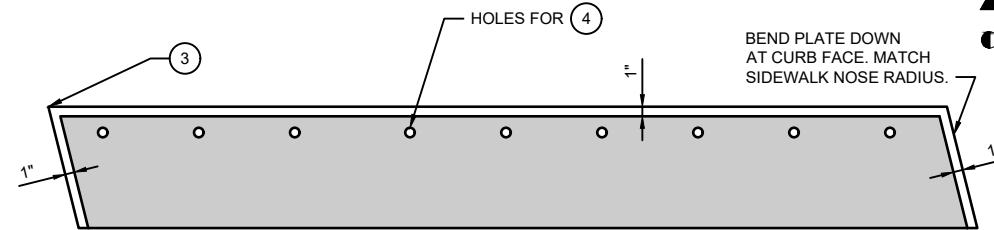
EXISTING SECTION AT SIDEWALK



PLAN AT SIDEWALK
(4 LOCATIONS TOTAL. 2 AS SHOWN. 2 SIMILAR)



SECTION AT SIDEWALK



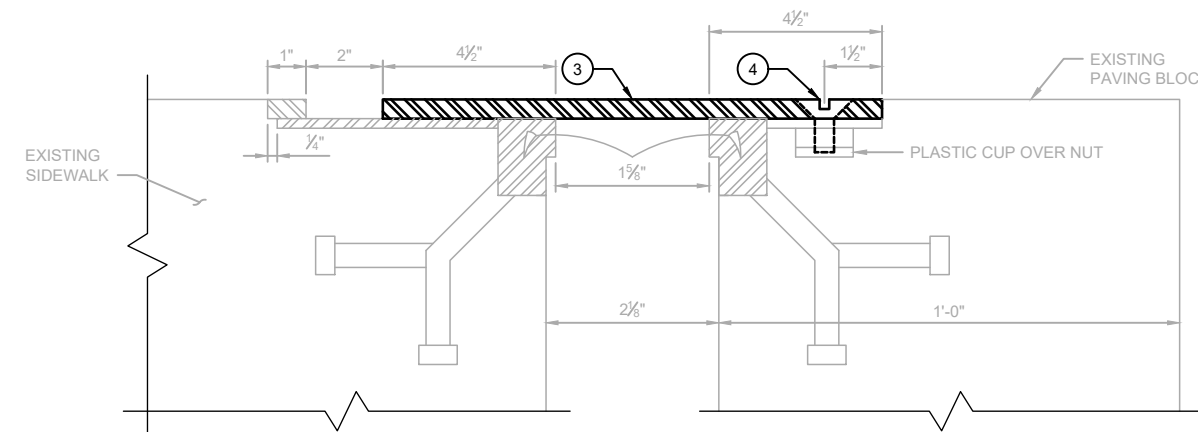
PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

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

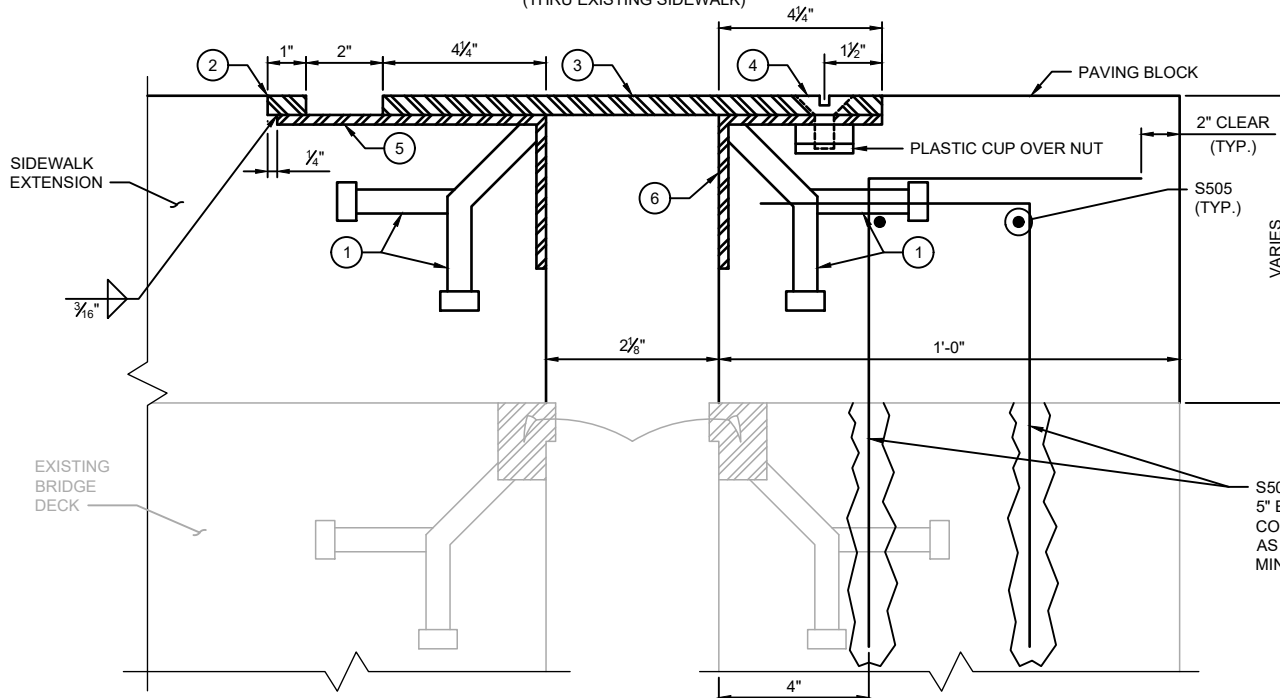
LEGEND:

- 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)

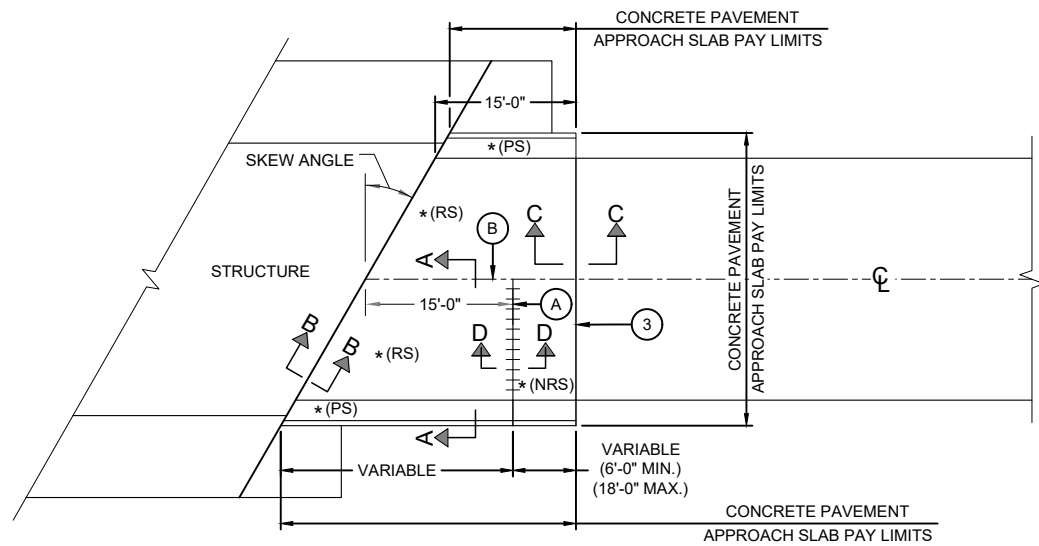
NO.	REVISIONS	DATE:

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

JOB NO.
1020.128
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CONCRETE APPROACH PLAN

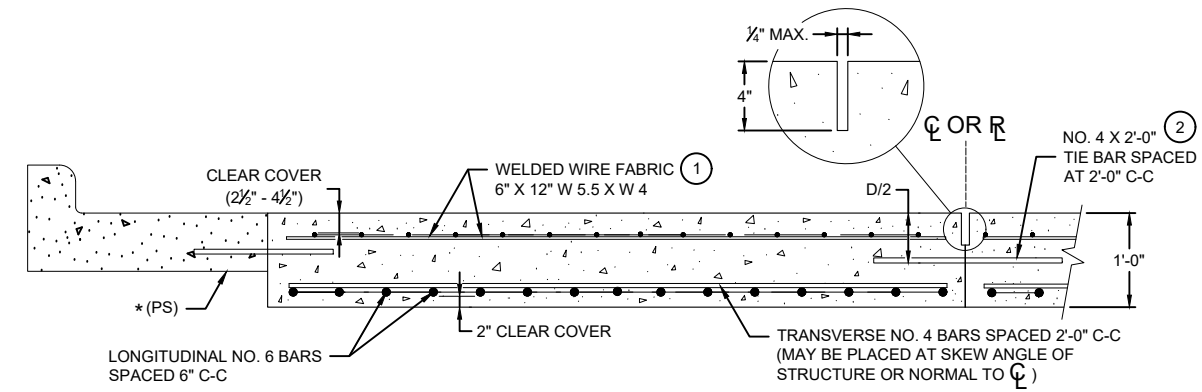
* (RS) = REINFORCED CONCRETE SLAB
 * (PS) = PAVED CONCRETE CURB & GUTTER. 6" MIN. THICKNESS. MATCH ROADWAY PLAN DETAILS.
 * (NRS) = NON-REINFORCED CONCRETE SLAB
 *** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)

GENERAL NOTES

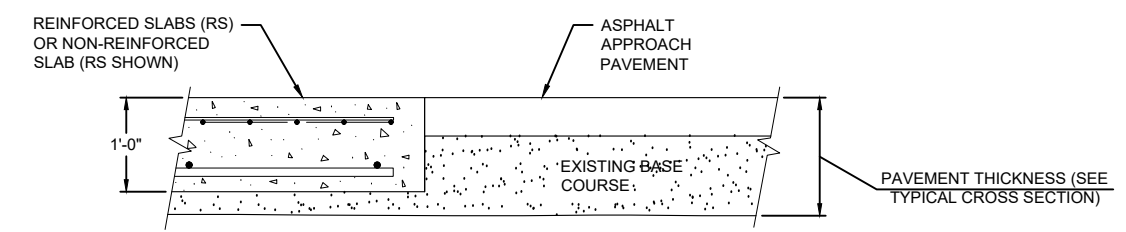
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

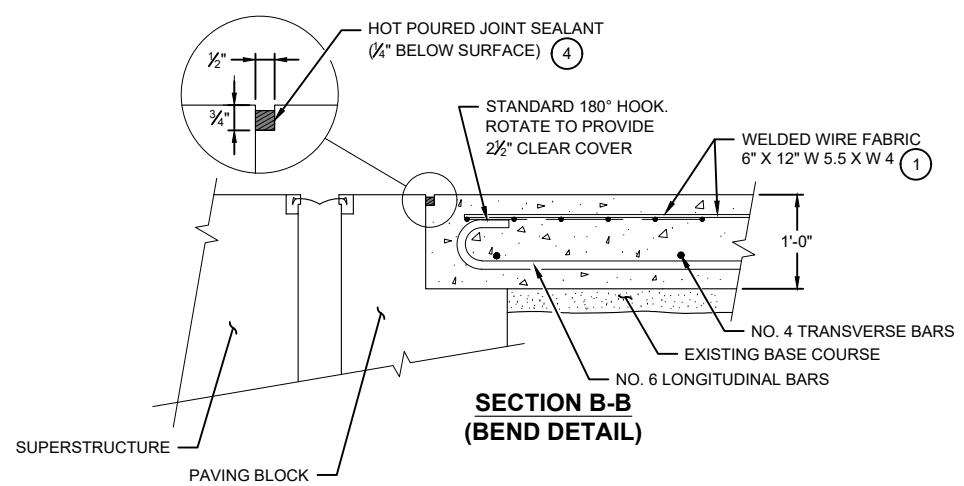
- ① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- ② THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- ③ DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- ④ USE A JOINT SEALANT CONFORMING TO WISDOT STANDARD SPECIFICATION 415.2.6.
- (A) STANDARD CONTRACTION JOINT NORMAL TO \bar{C} OR \bar{R} .
- (B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.



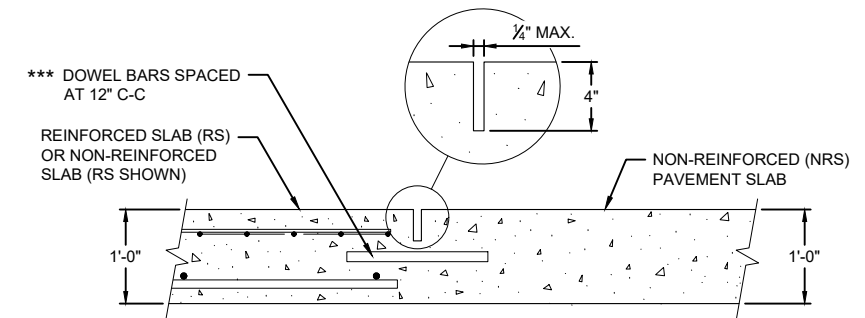
**SECTION A-A
(REINFORCEMENT POSITIONING DETAIL)**



**SECTION C-C
(TRANSITION DETAIL)**



**SECTION B-B
(BEND DETAIL)**



**SECTION D-D
(CONTRACTION JOINT)**

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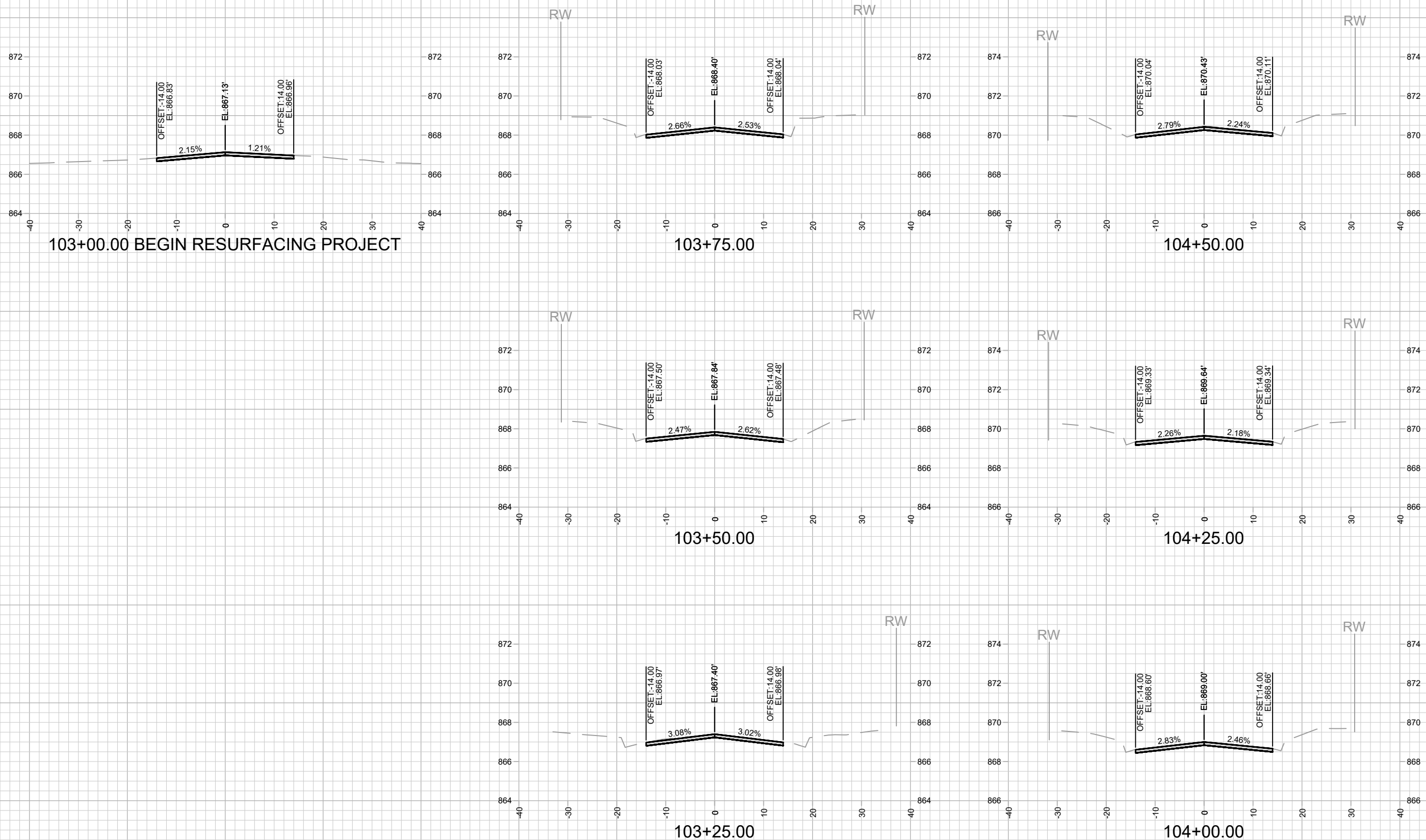
CONCRETE APPROACH PLAN & DETAILS

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

JOB NO.
1020.128
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S-5



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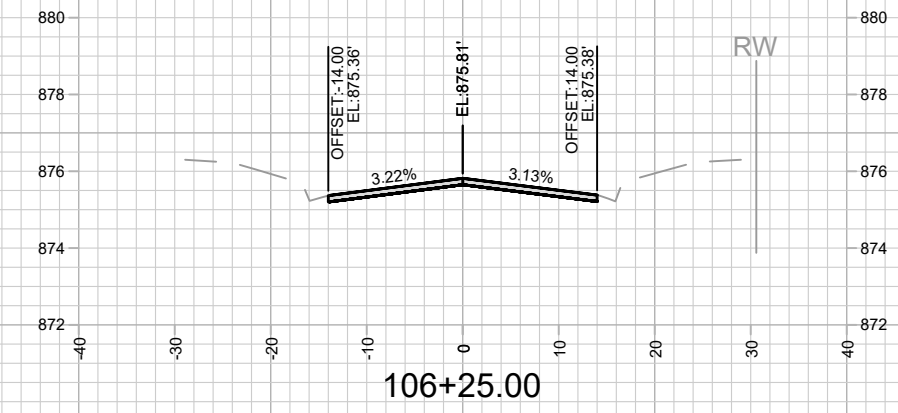
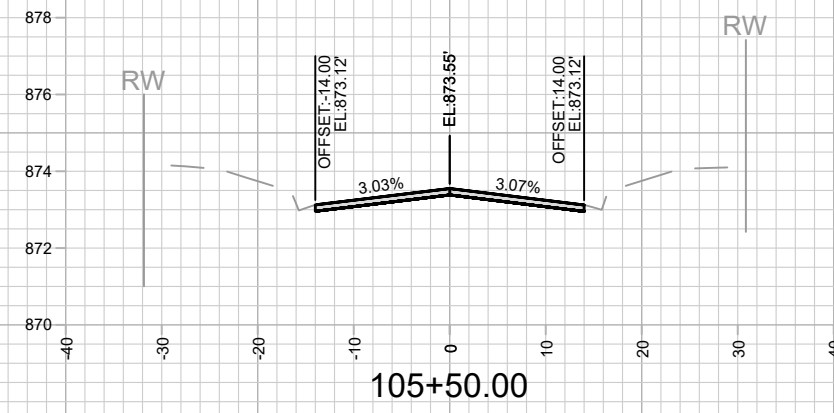
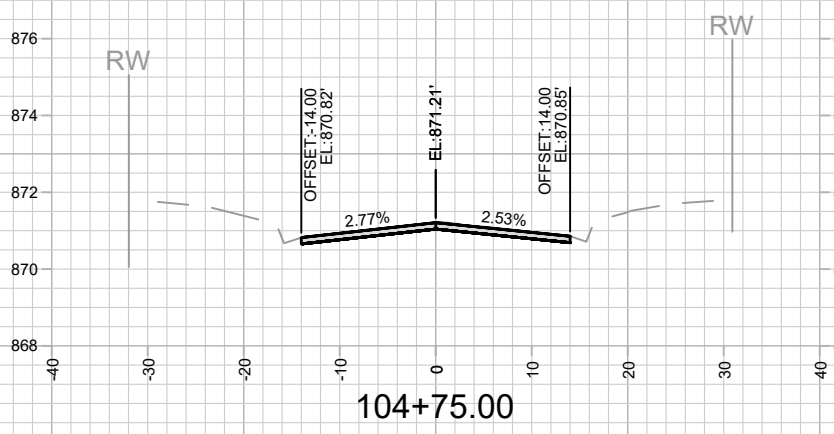
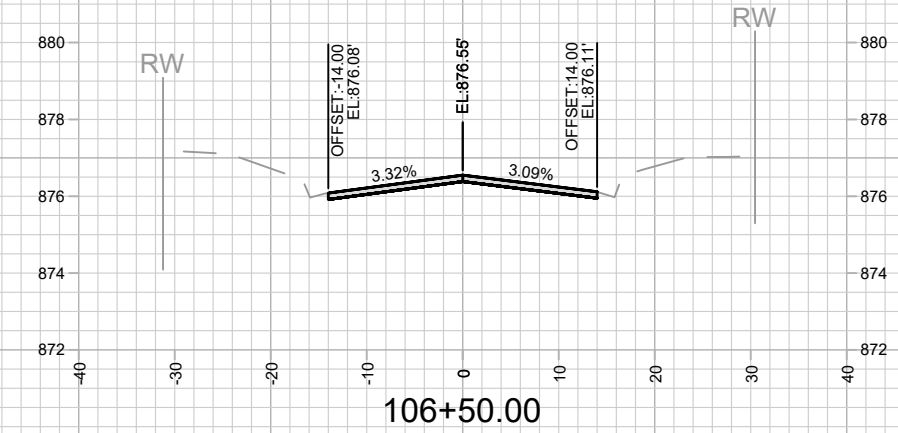
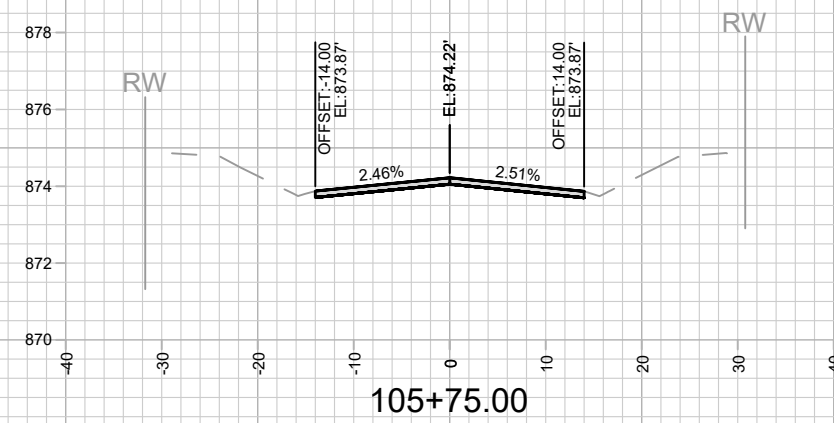
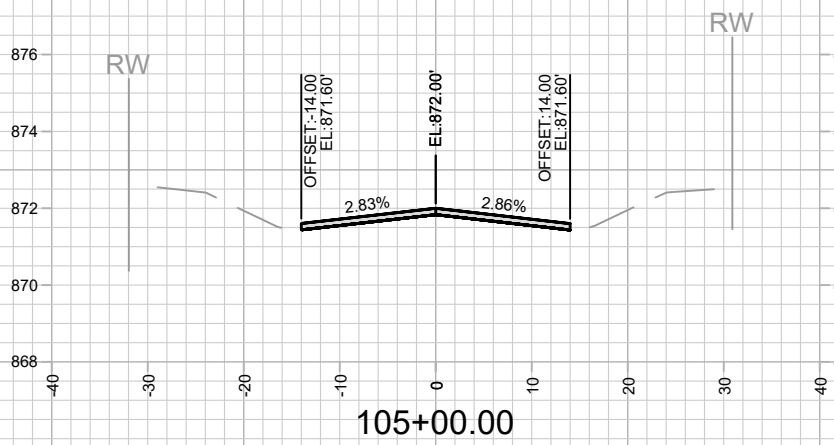
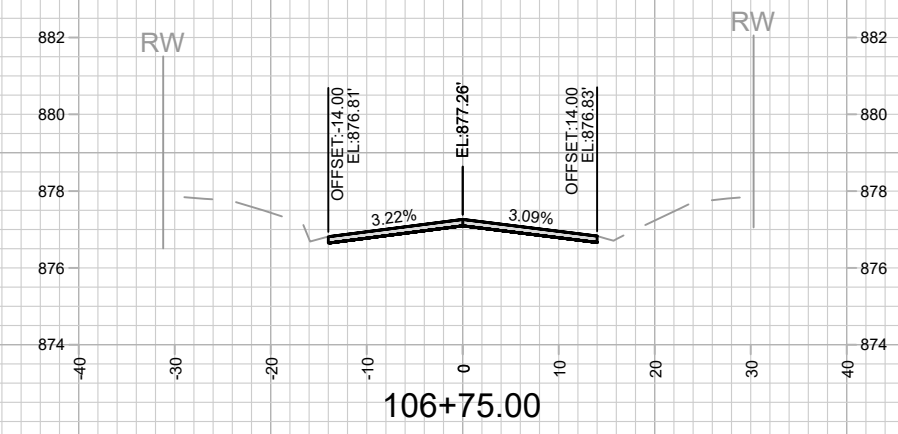
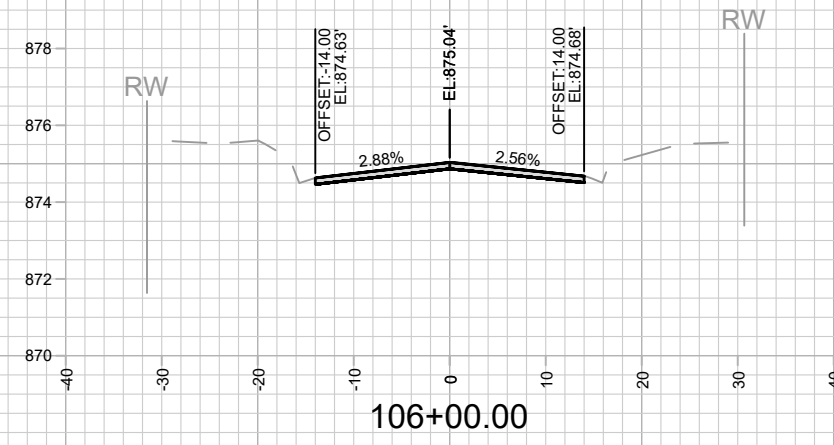
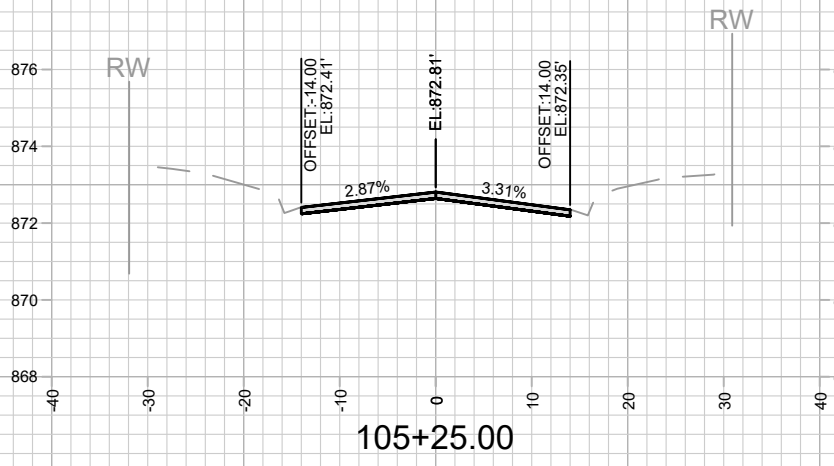
13812
 MADISON, WI
 CONTRACT NO: 8635

KNUTSON DRIVE RESURFACING CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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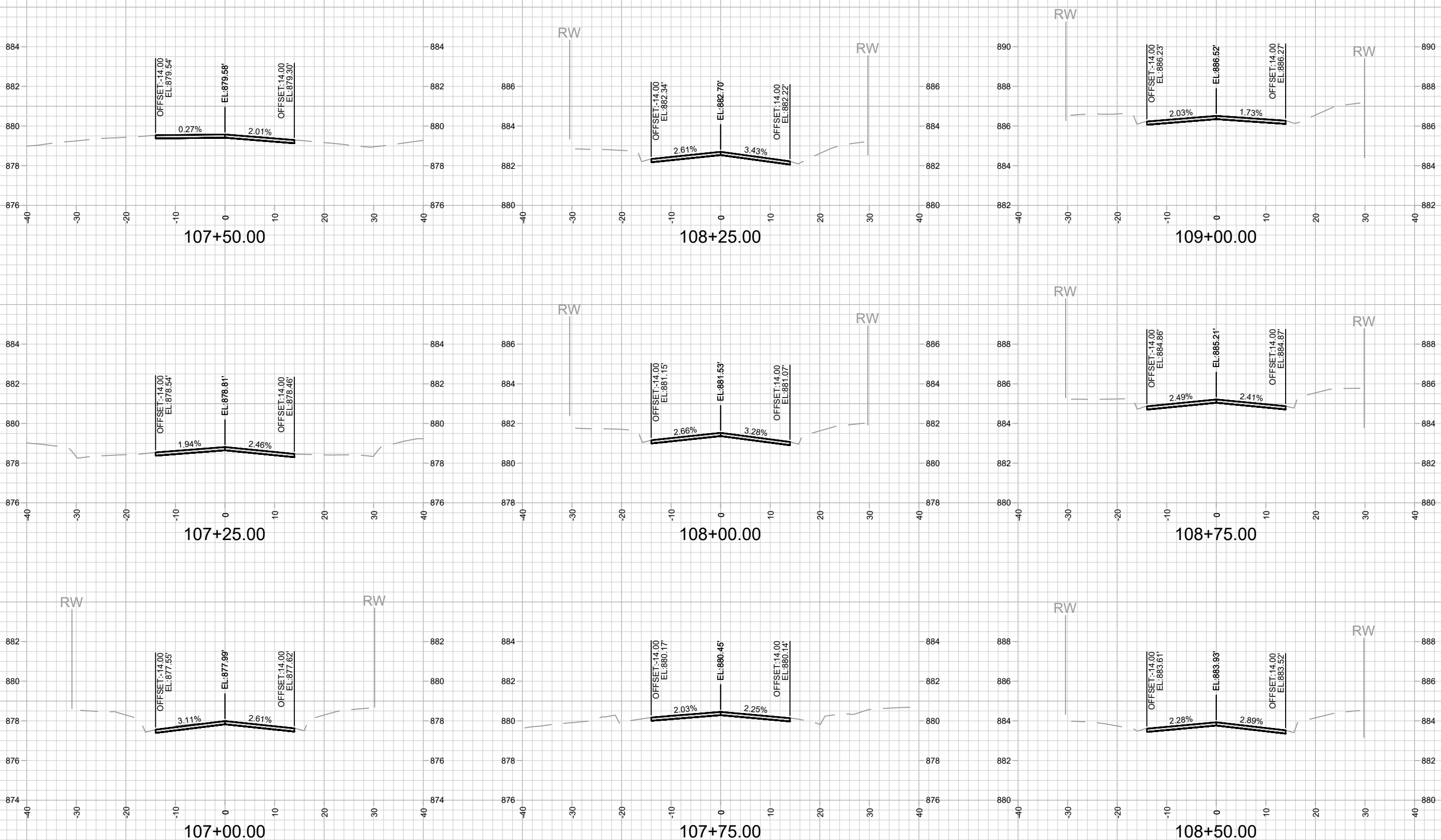
13812
MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE RESURFACING CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
X-2

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X-2

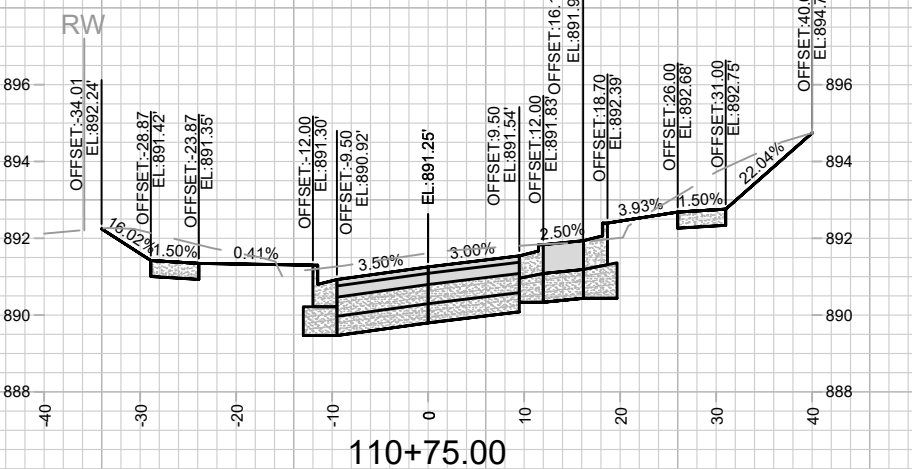
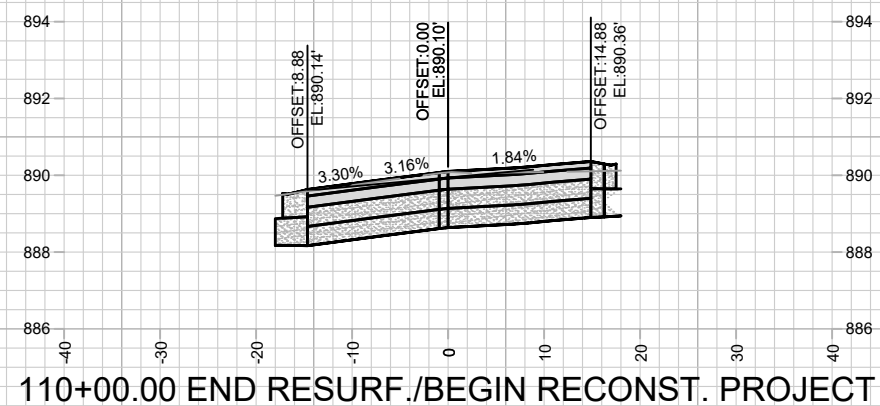
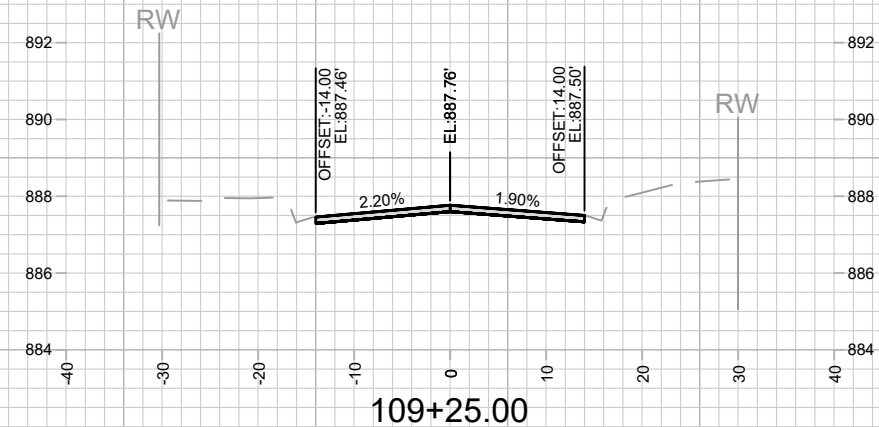
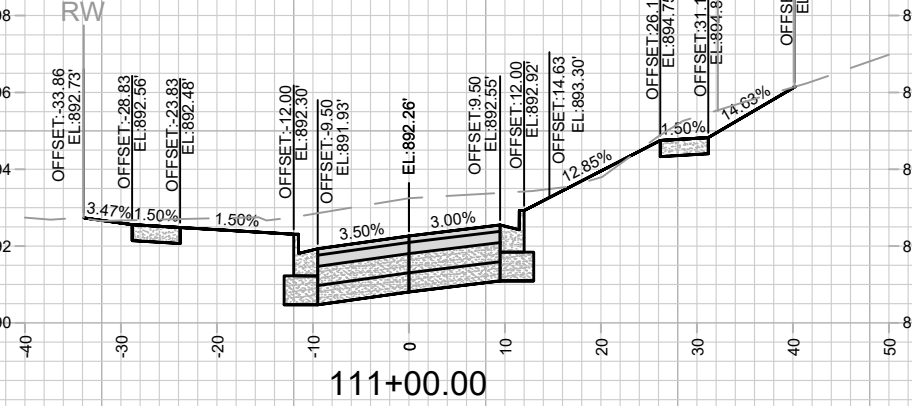
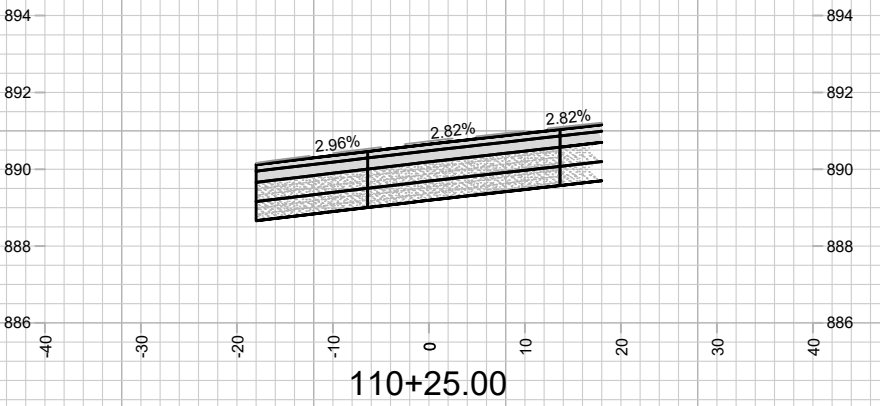
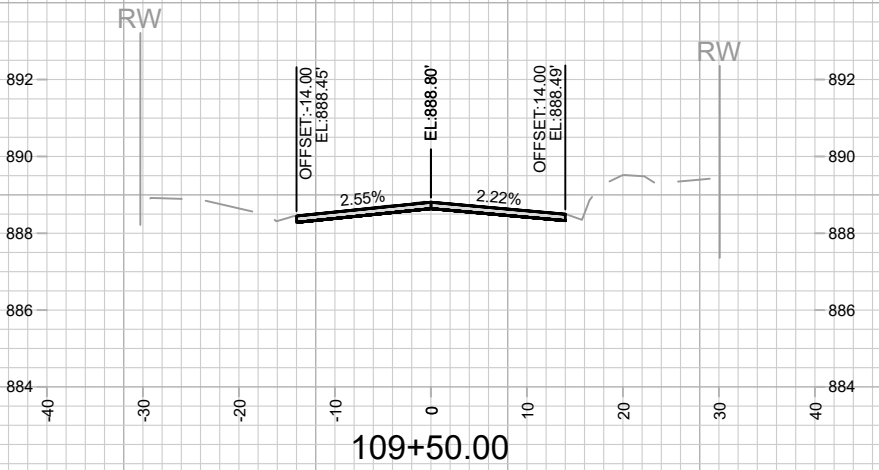
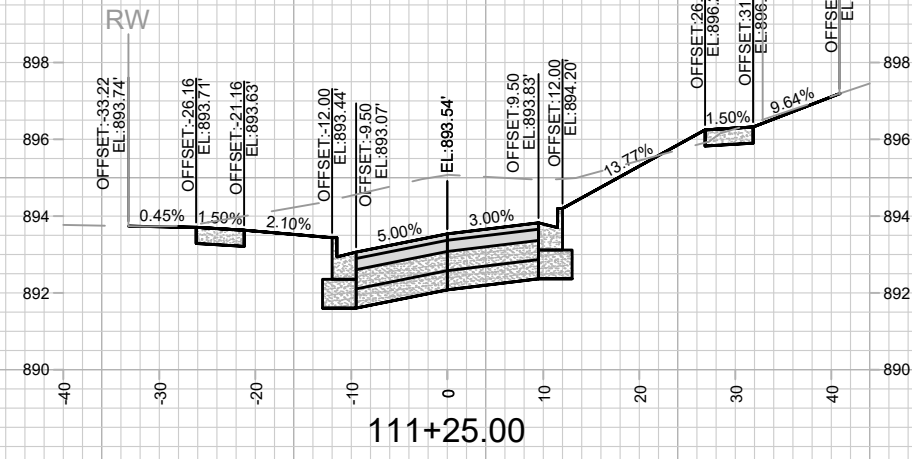
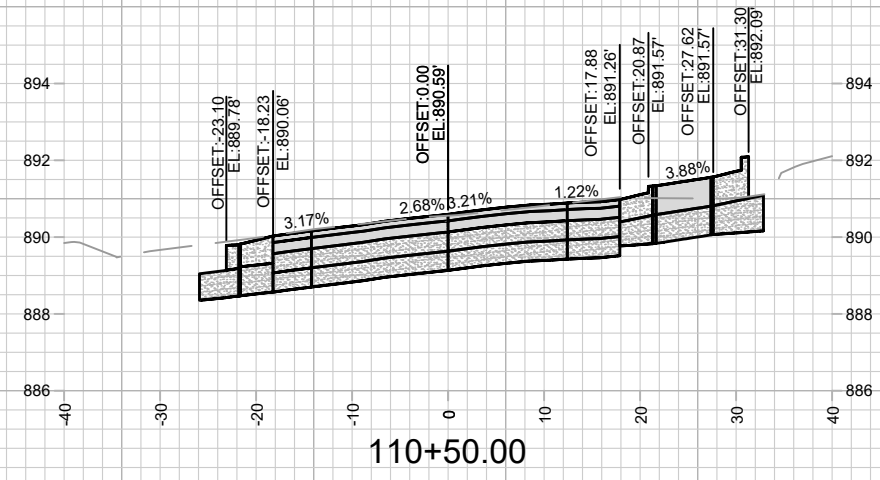
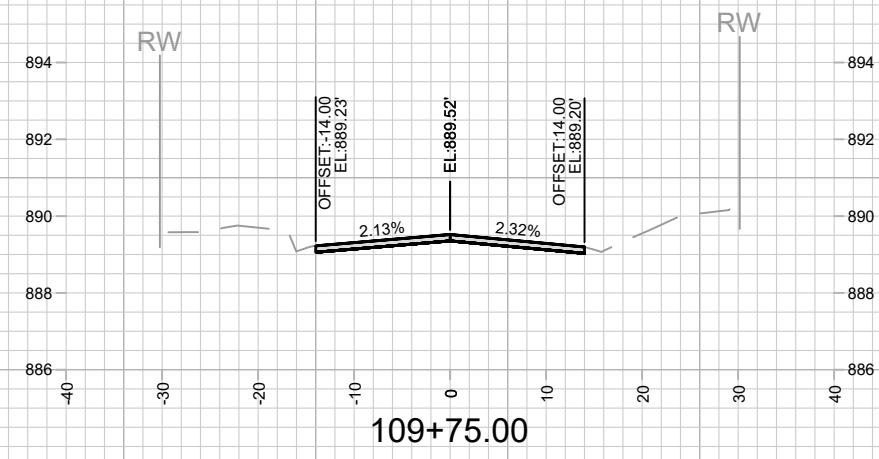


	13812	8635	CONTRACT NO: 13812
	KNUTSON DRIVE RESURFACING CROSS SECTIONS KNUTSON DRIVE RESURFACING/RECONSTRUCTION	MADISON, WI	

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Date: 5/01/2024 3:17 PM
Scale: 1" = 20'



MARK	REVISION	DATE	BY

13812
MADISON, WI

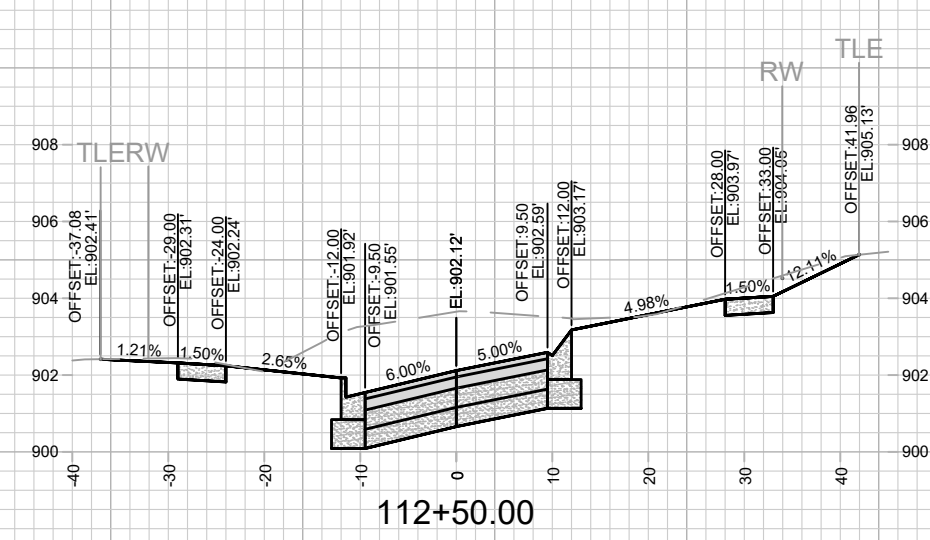
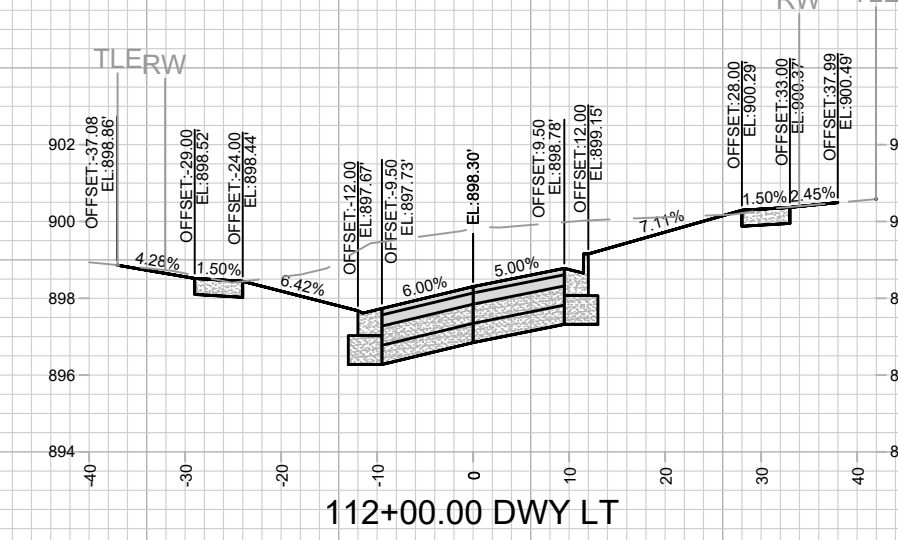
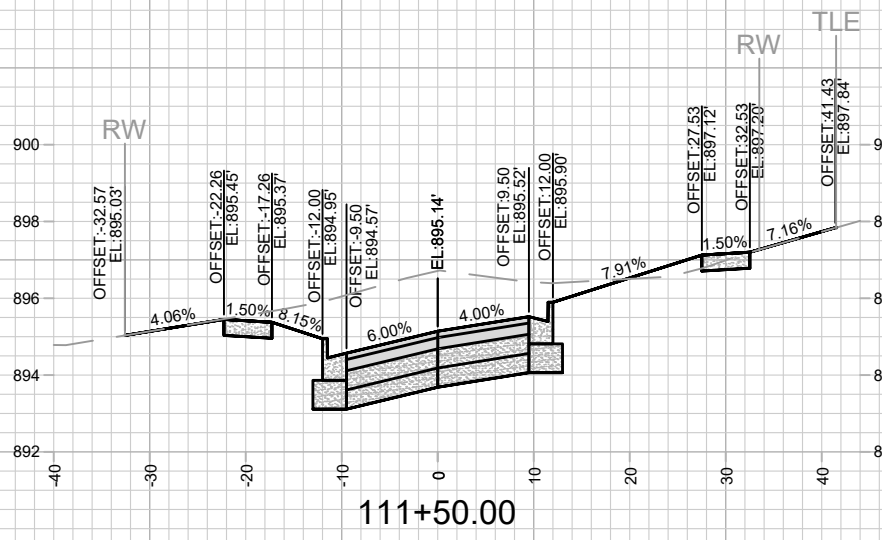
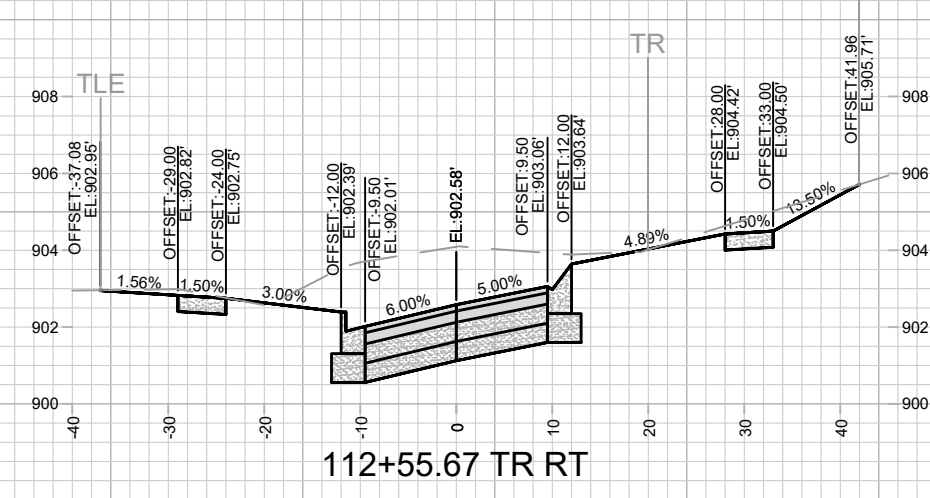
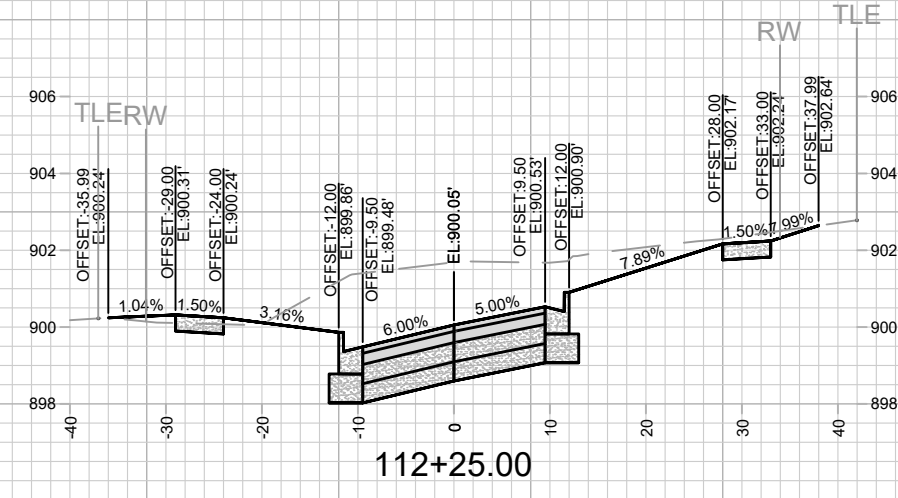
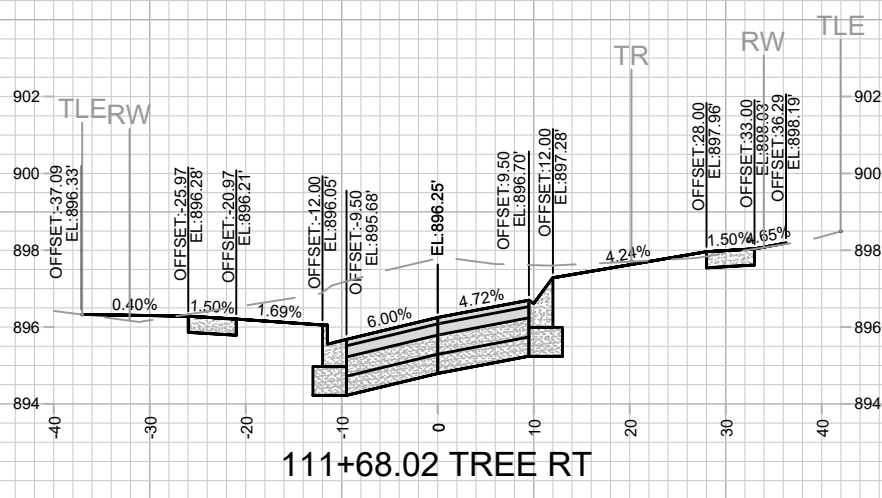
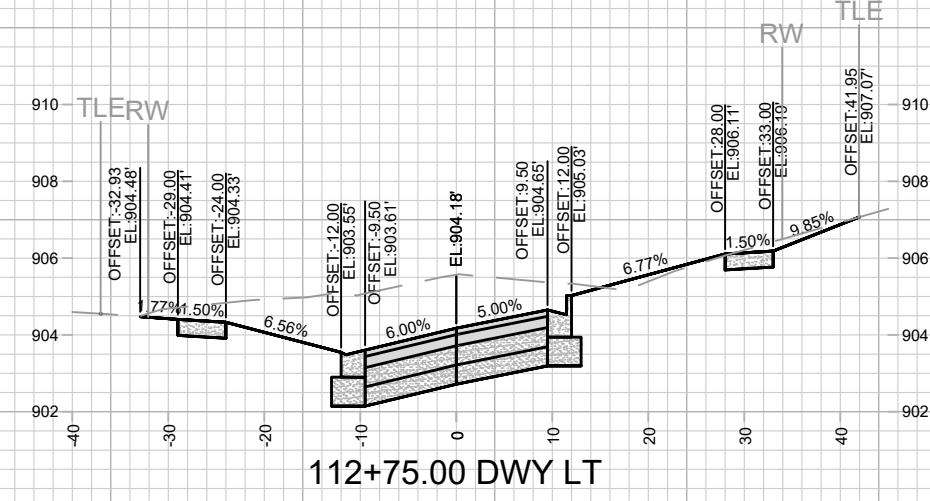
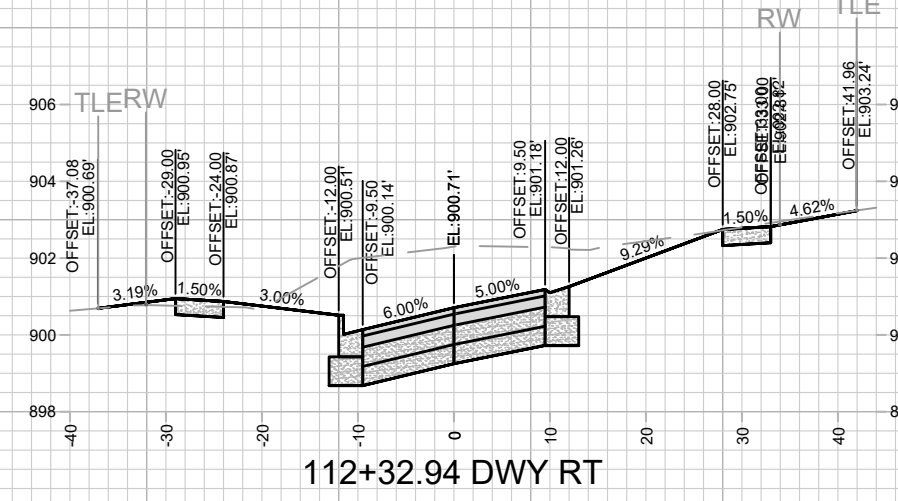
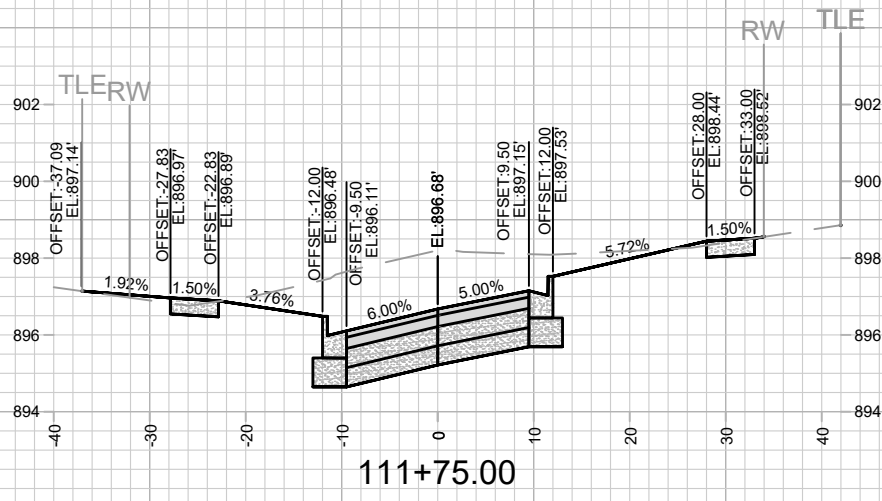
13812
MADISON, WI

8635
CONTRACT NO.:

13812
MADISON, WI

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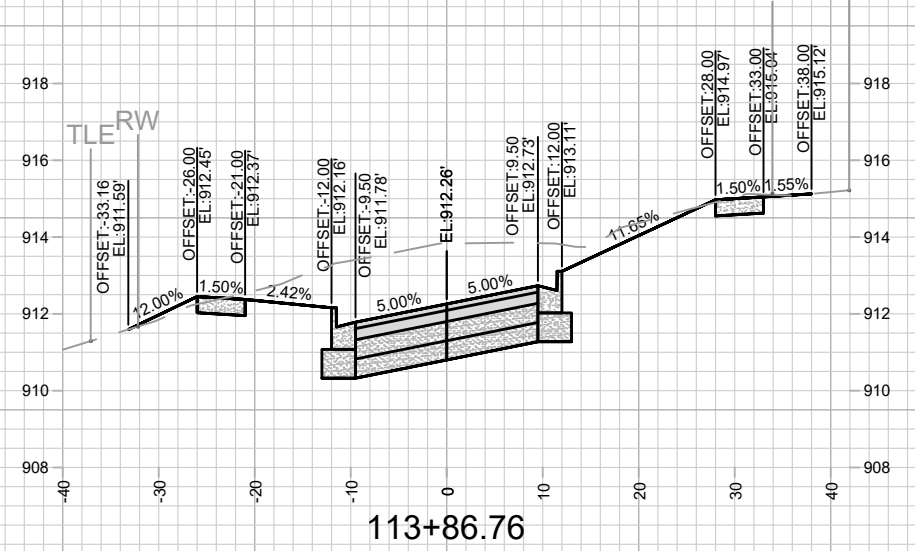
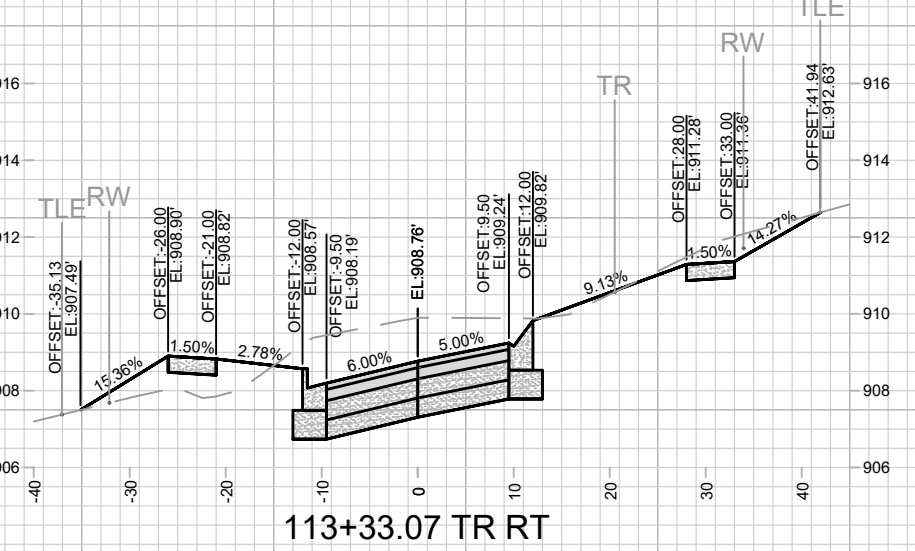
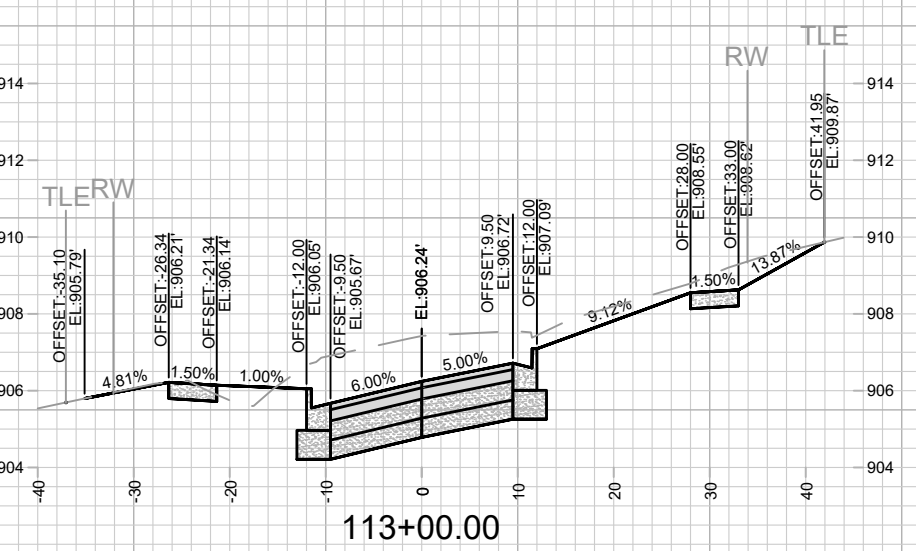
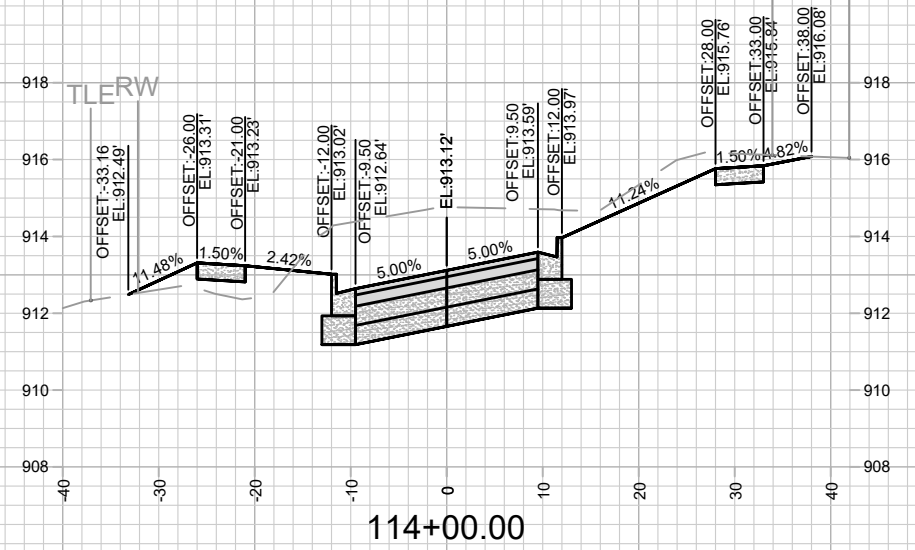
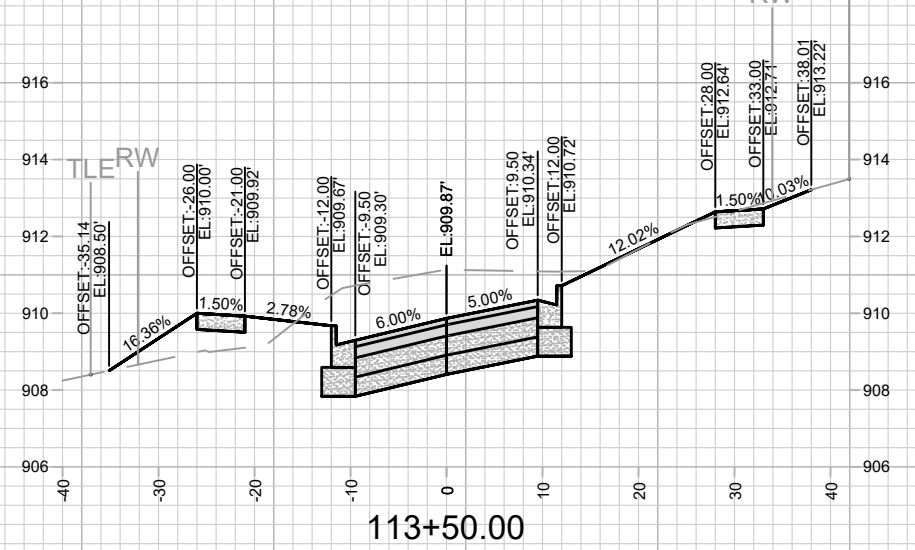
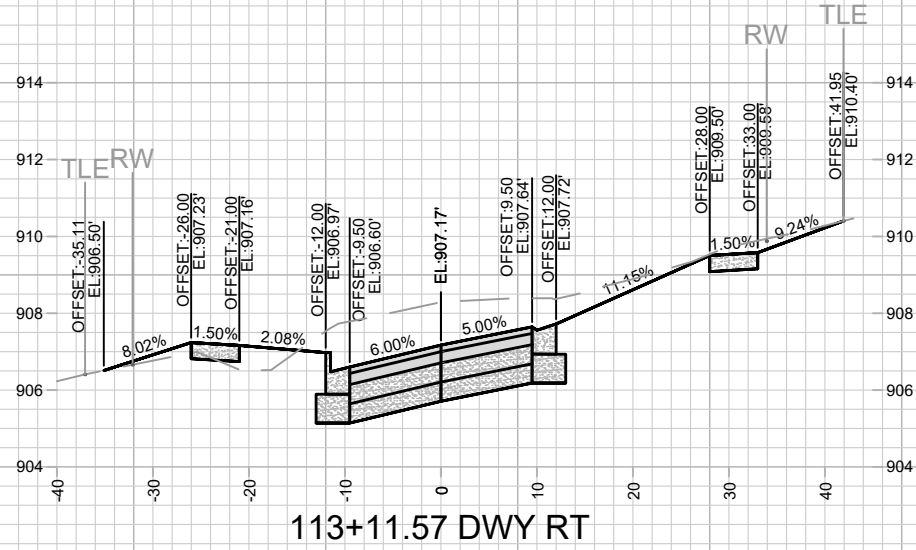
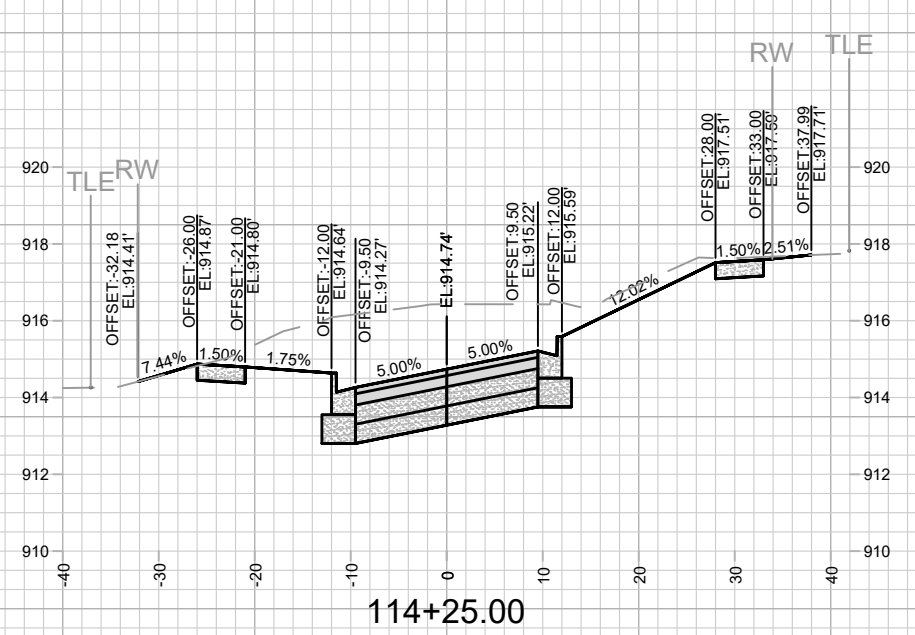
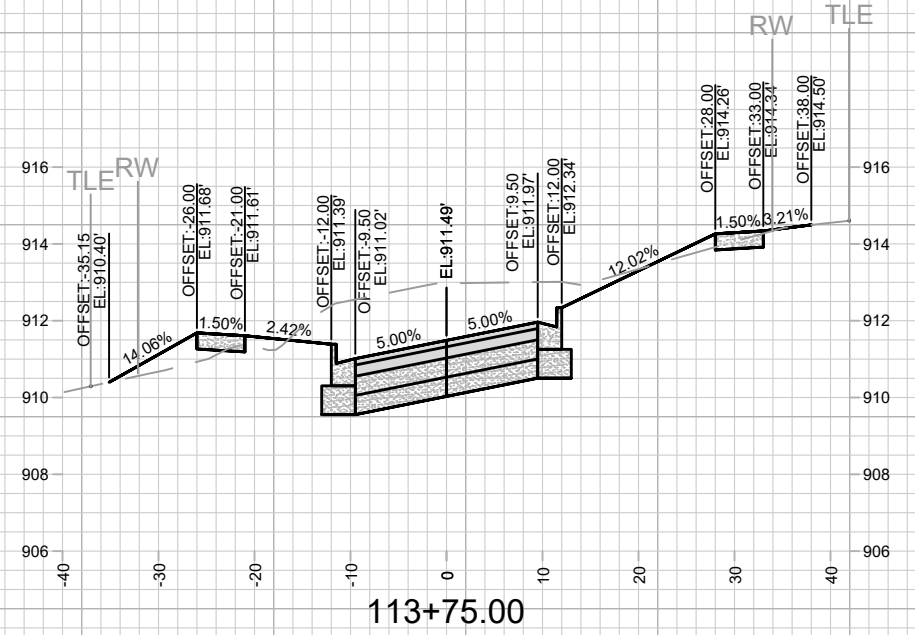
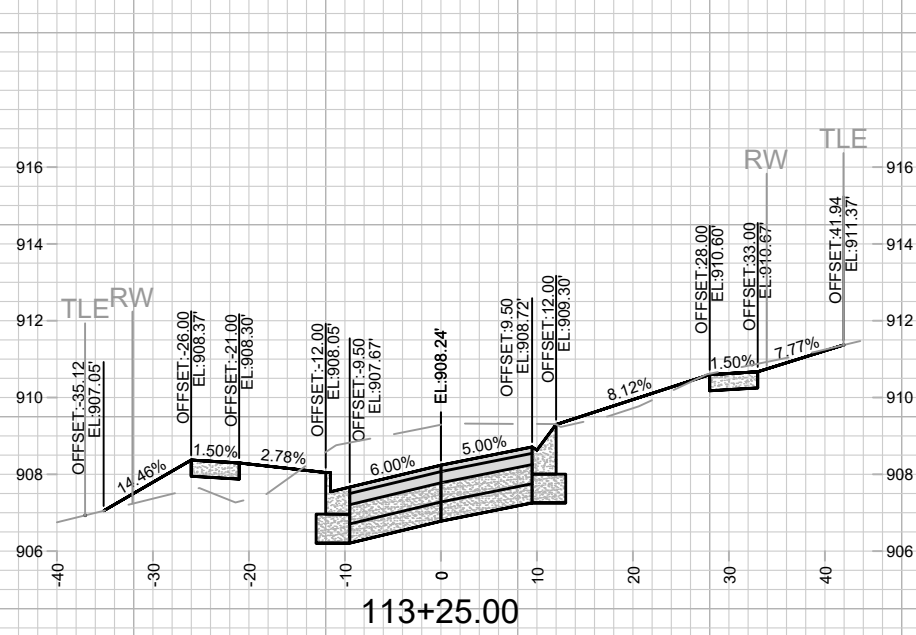
MARK	REVISION	DATE	BY

13812
MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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X-5

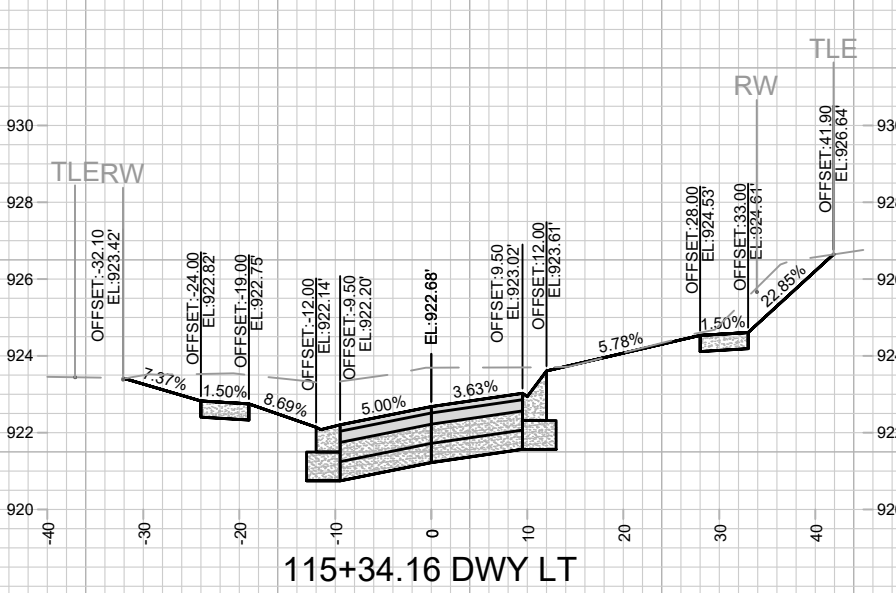
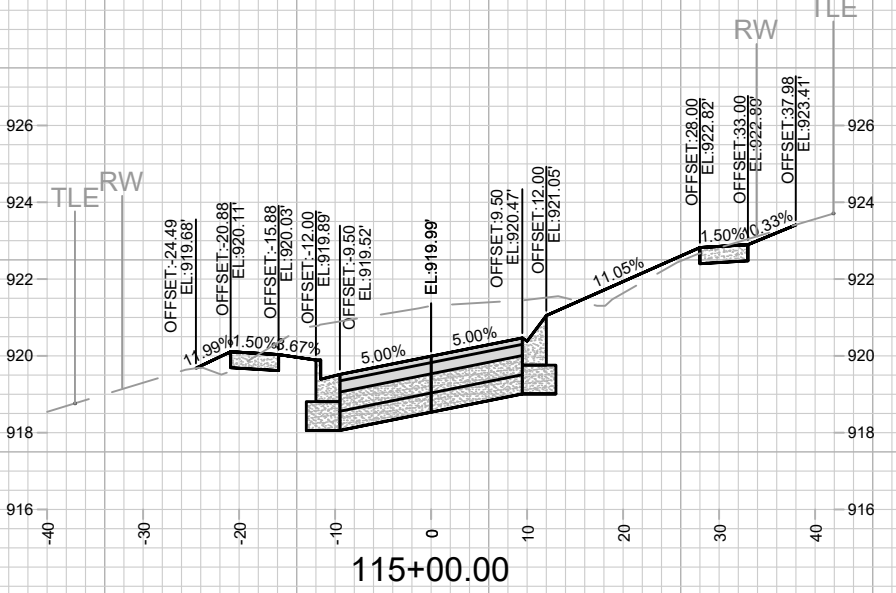
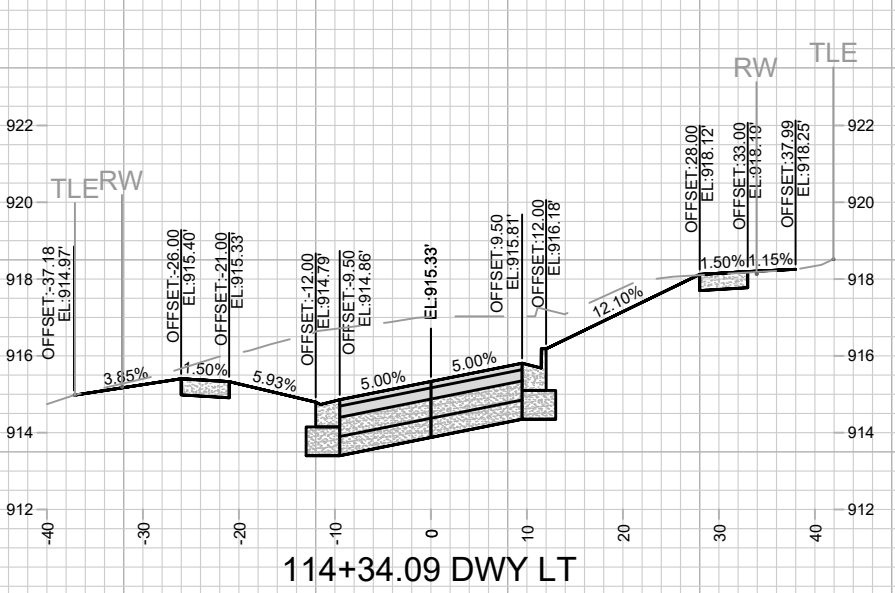
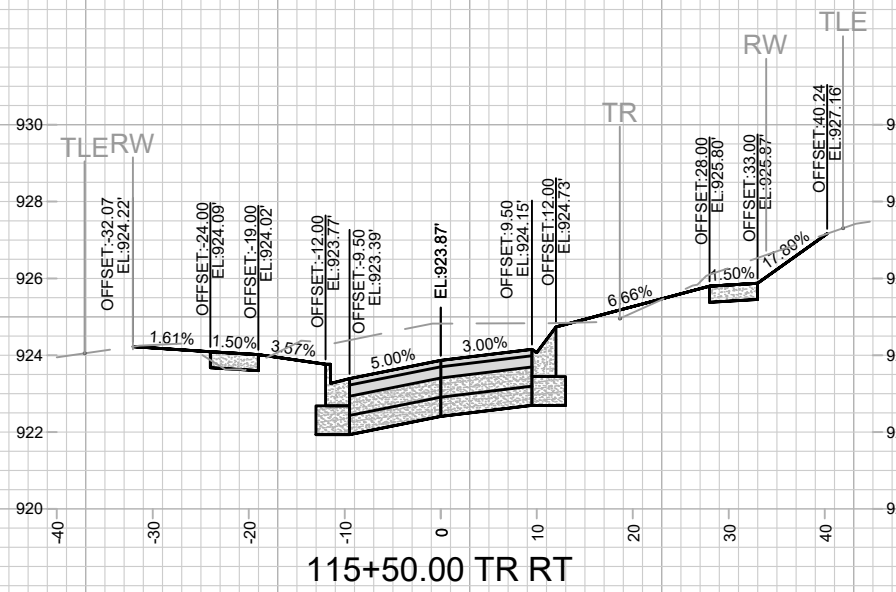
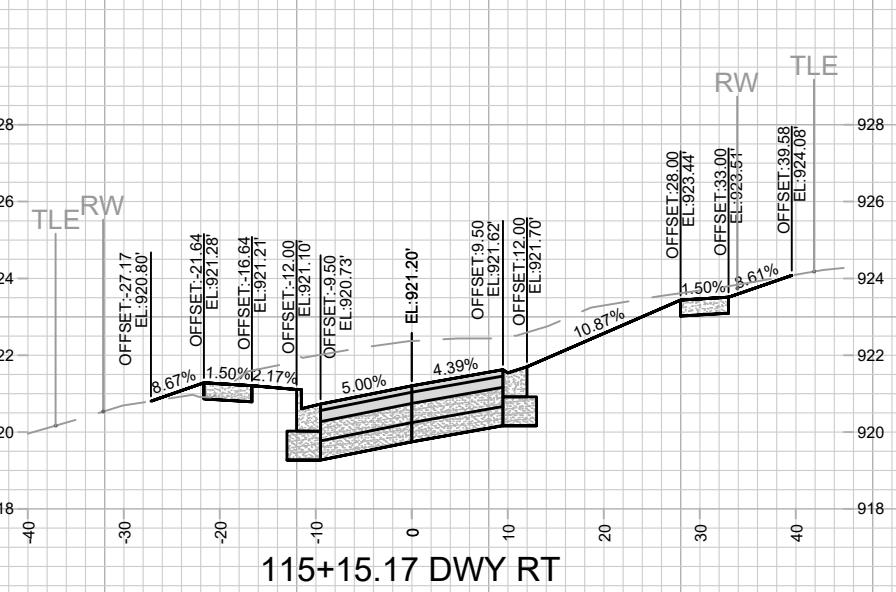
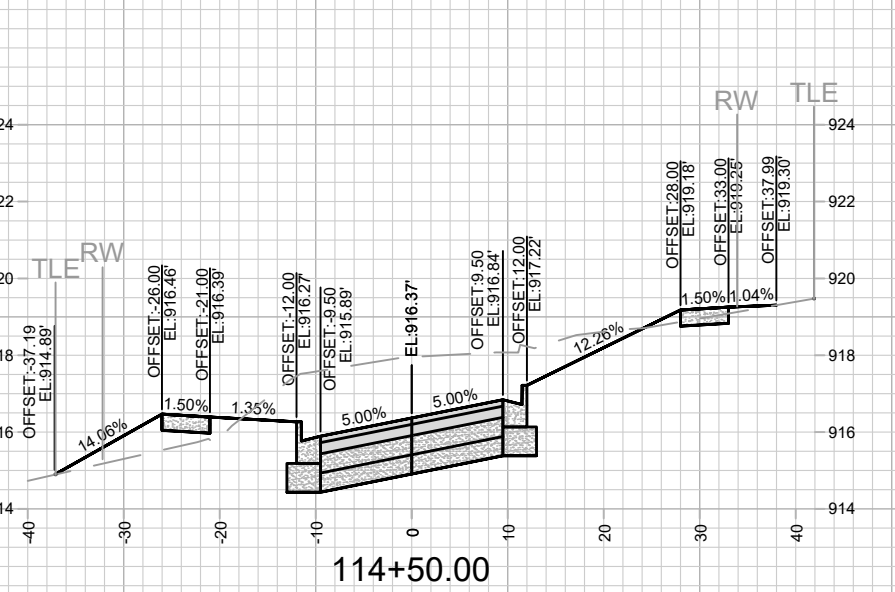
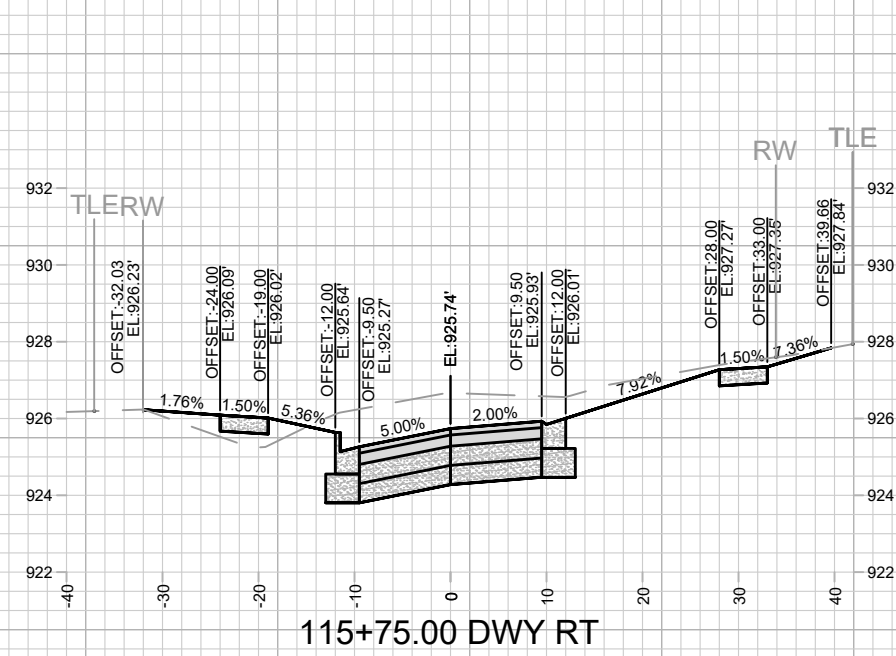
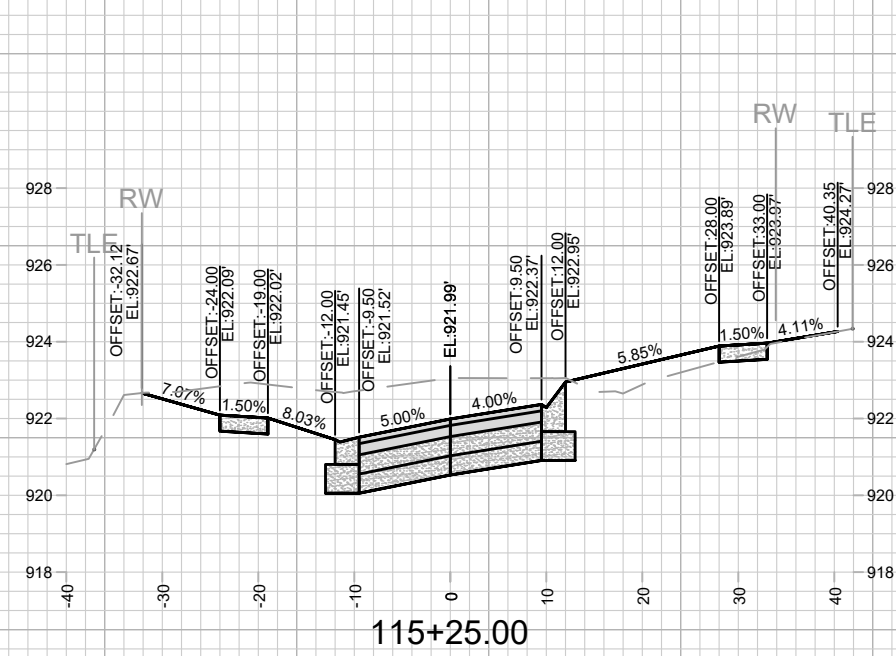
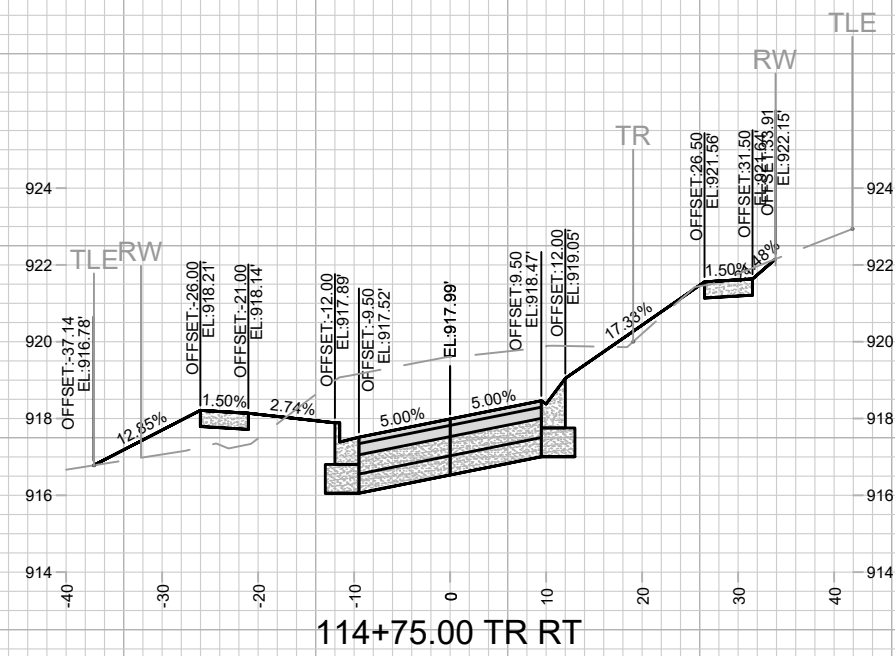


MARK	REVISION	DATE	BY

Scale: 1" = 20'

13812
 MADISON, WI
 8635
 CONTRACT NO:

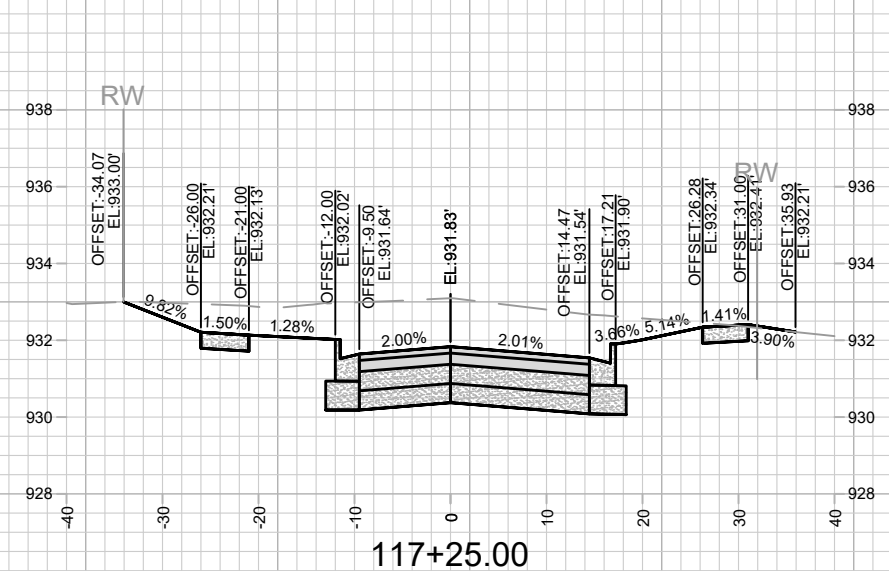
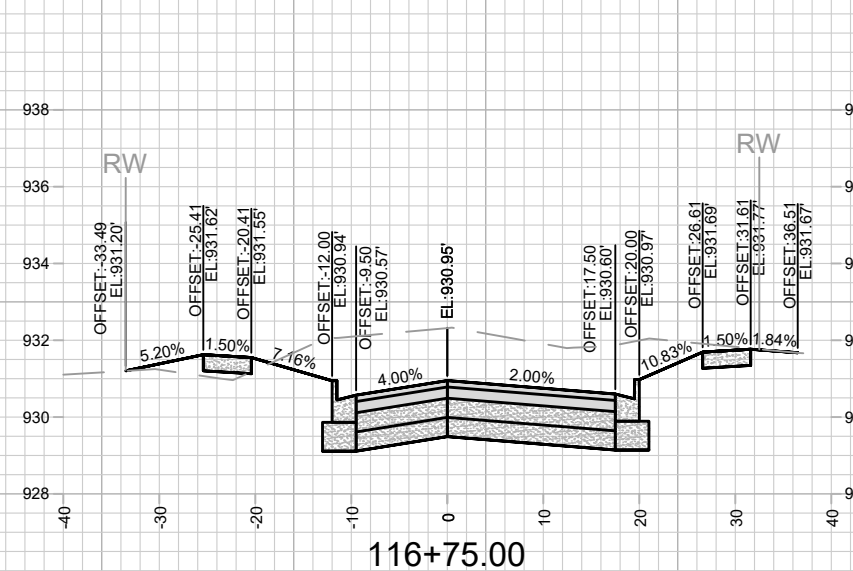
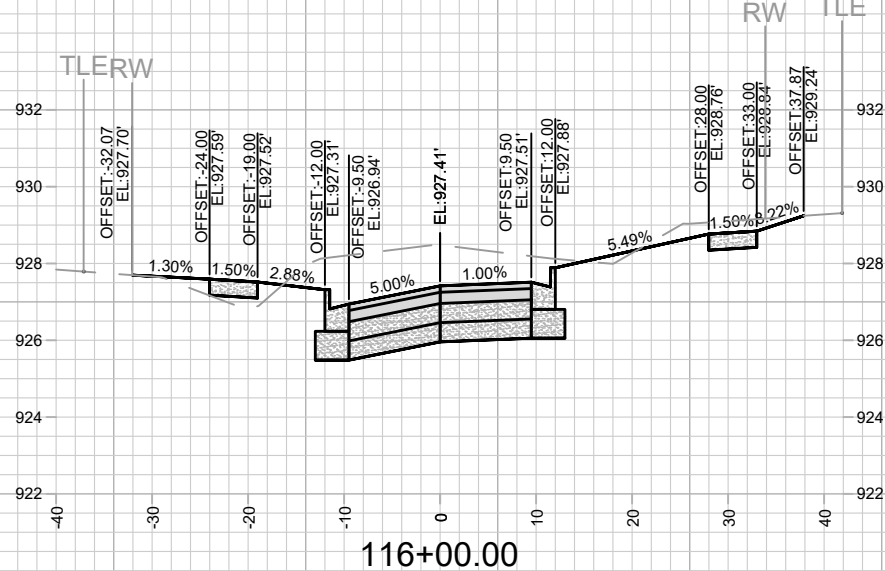
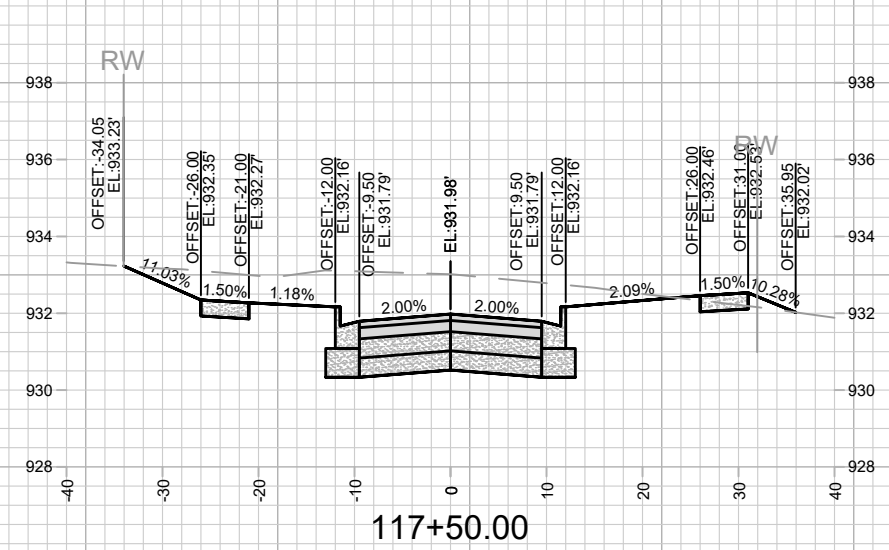
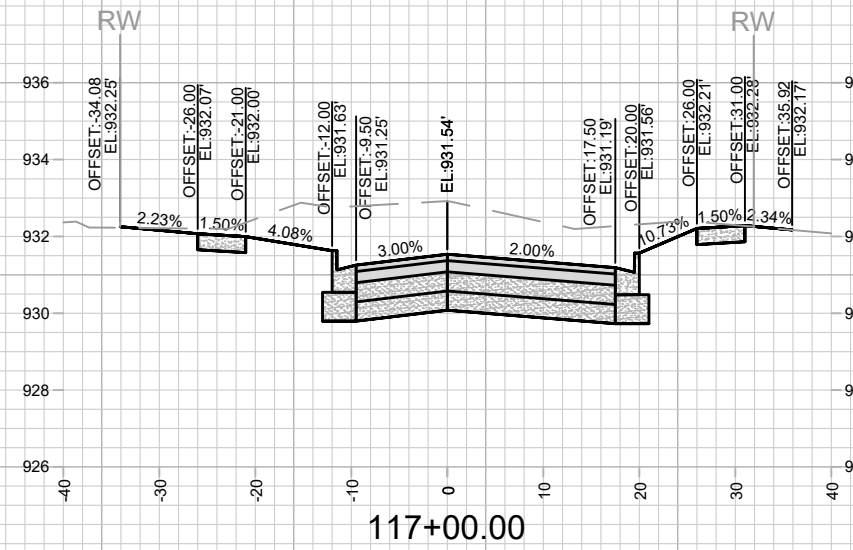
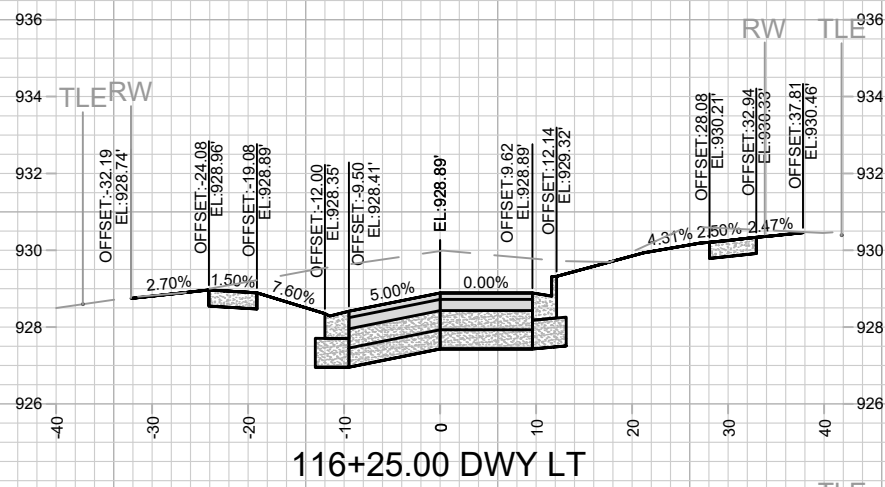
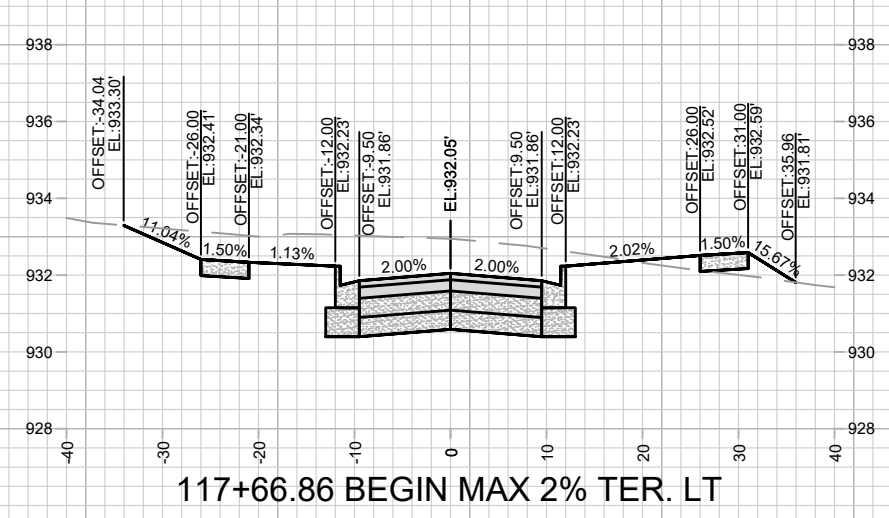
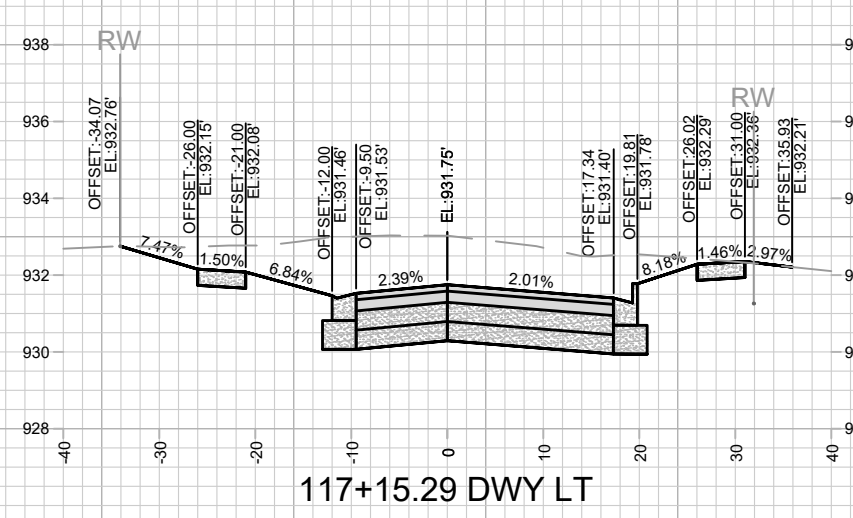
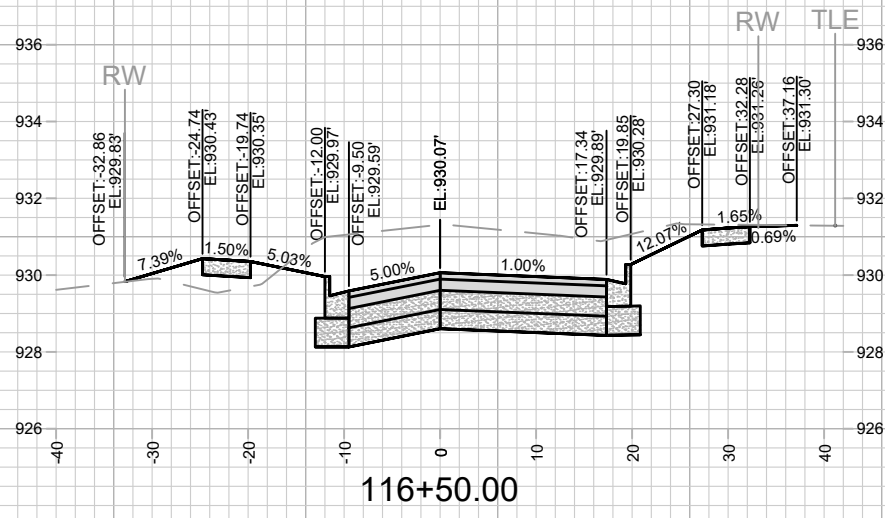
KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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MARK	REVISION	DATE	BY
DESIGNED BY: ALZ	DATE: 5/01/2024 3:18 PM		
13812			X-7

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 MADISON, WI
 CONTRACT NO: 8635
 KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
 X-7



13812		MARK	REVISION	DATE	BY
MADISON, WI		Designed By: ALZ		Date: 5/01/2024 3:18 PM	13812
CONTRACT NO: 8635		X-8			

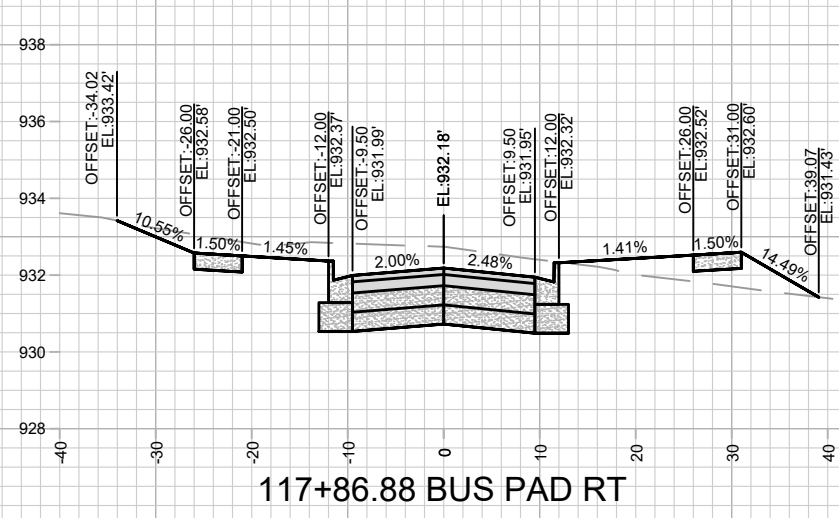
KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS

KNUTSON DRIVE RESURFACING/RECONSTRUCTION

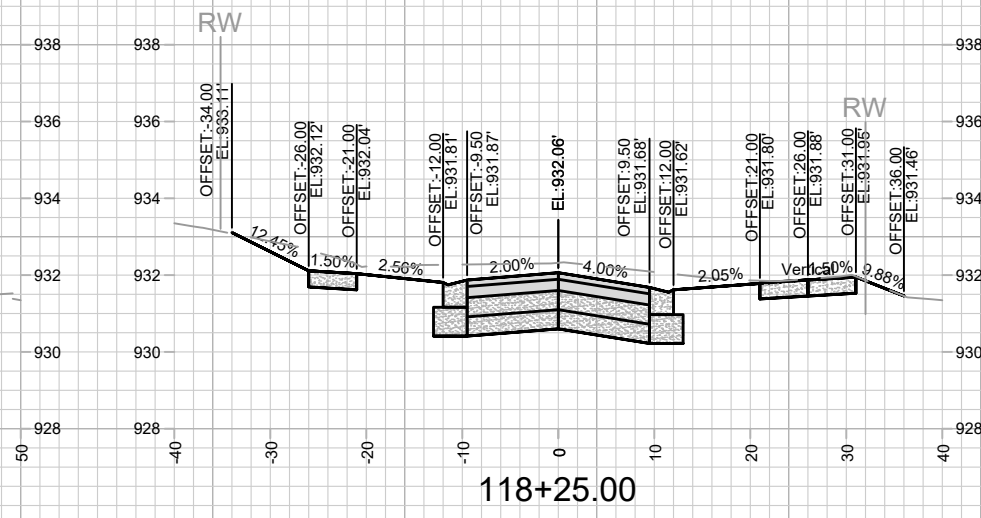
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13812

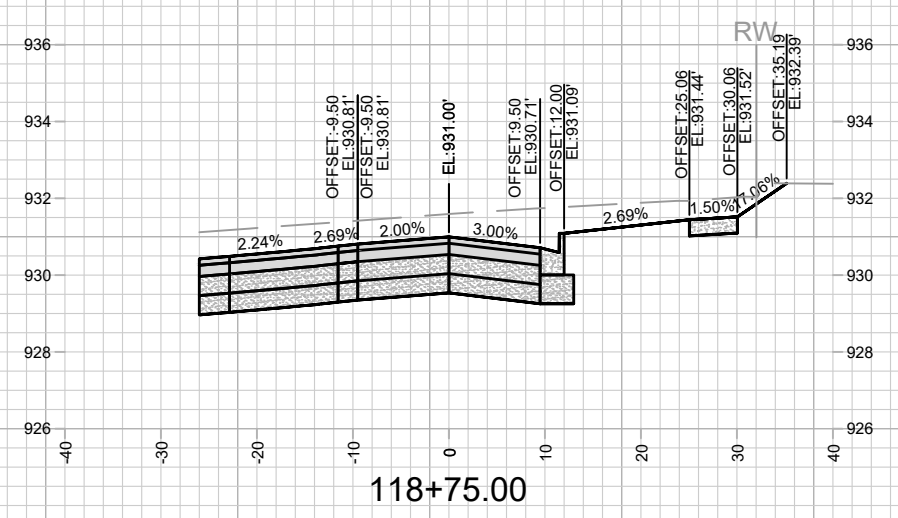
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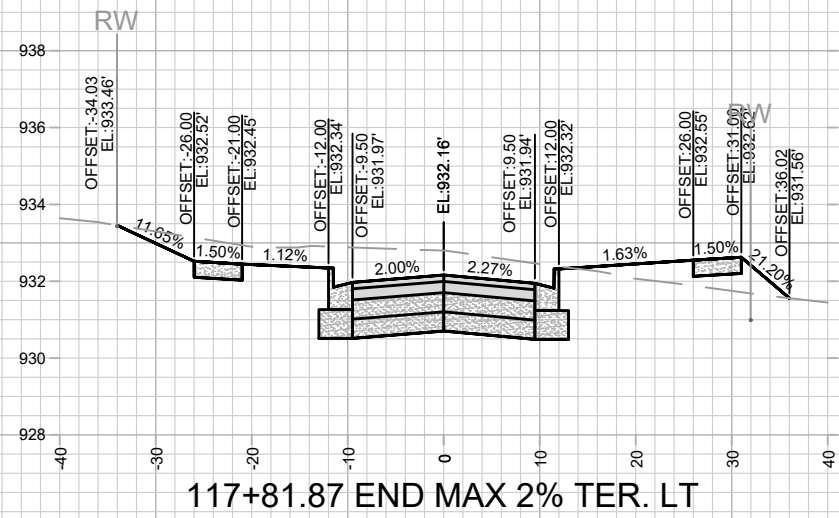
117+86.88 BUS PAD RT



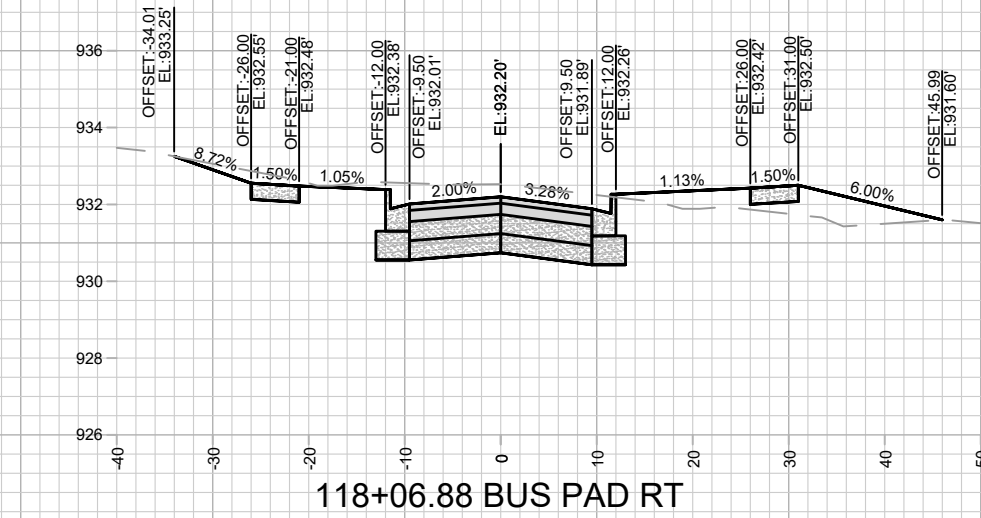
118+25.00



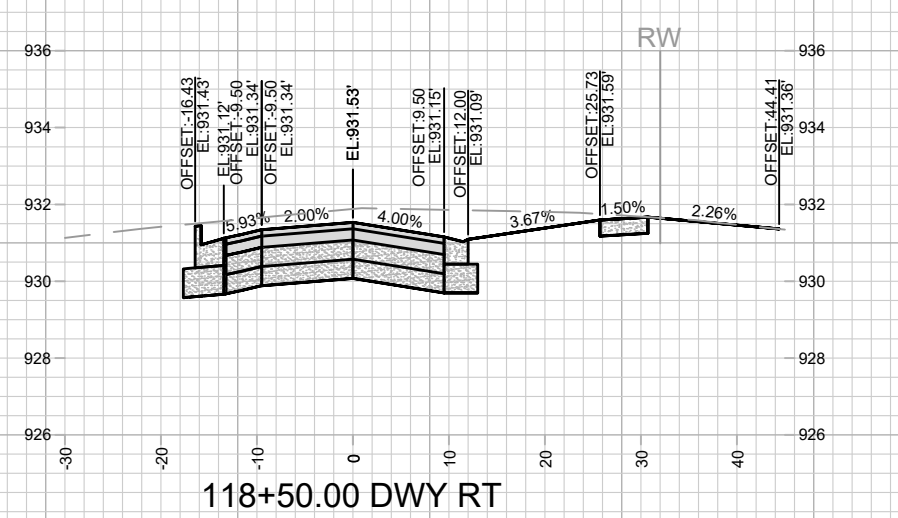
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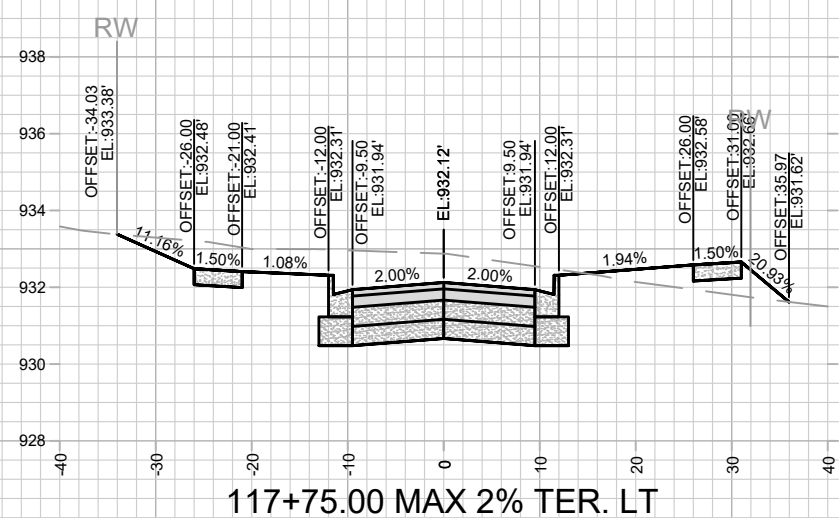
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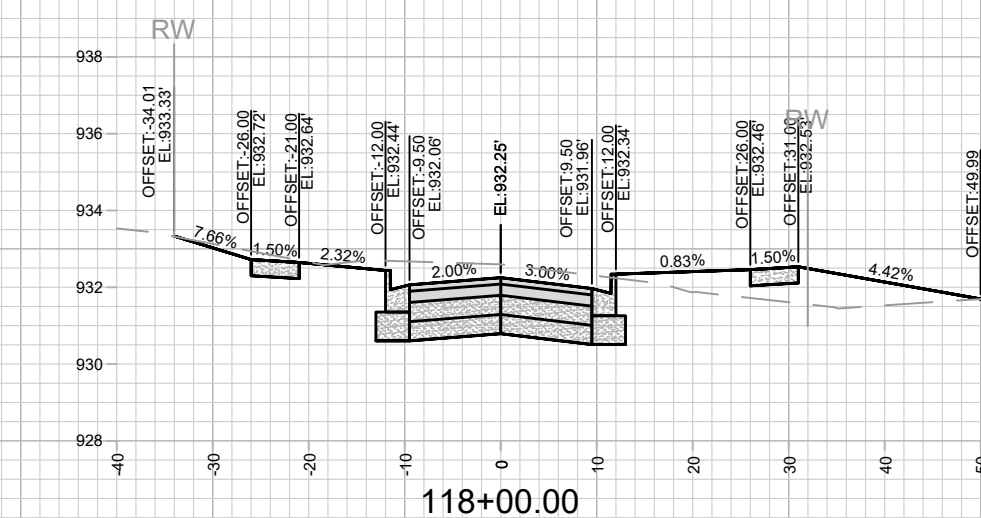
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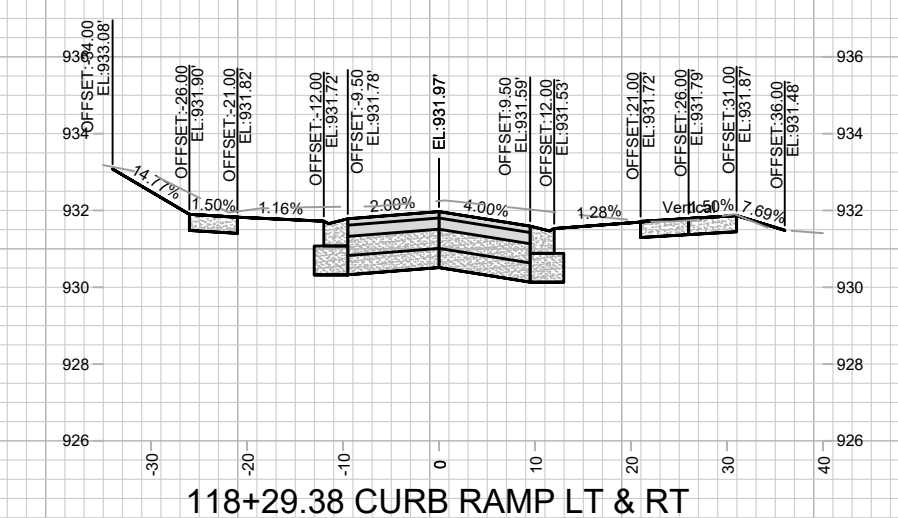
118+50.00 DWY RT



117+75.00 MAX 2% TER. LT



118+00.00



118+29.38 CURB RAMP LT & RT

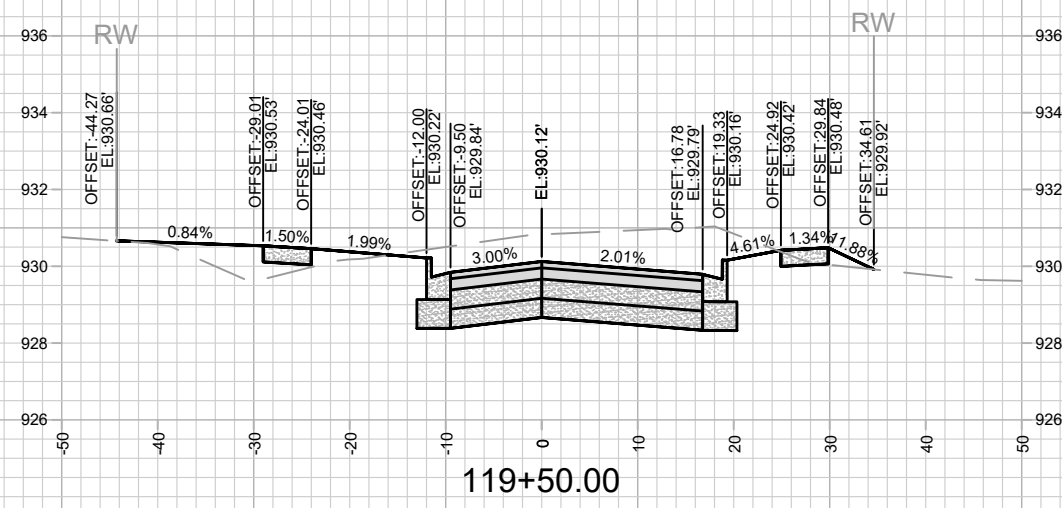
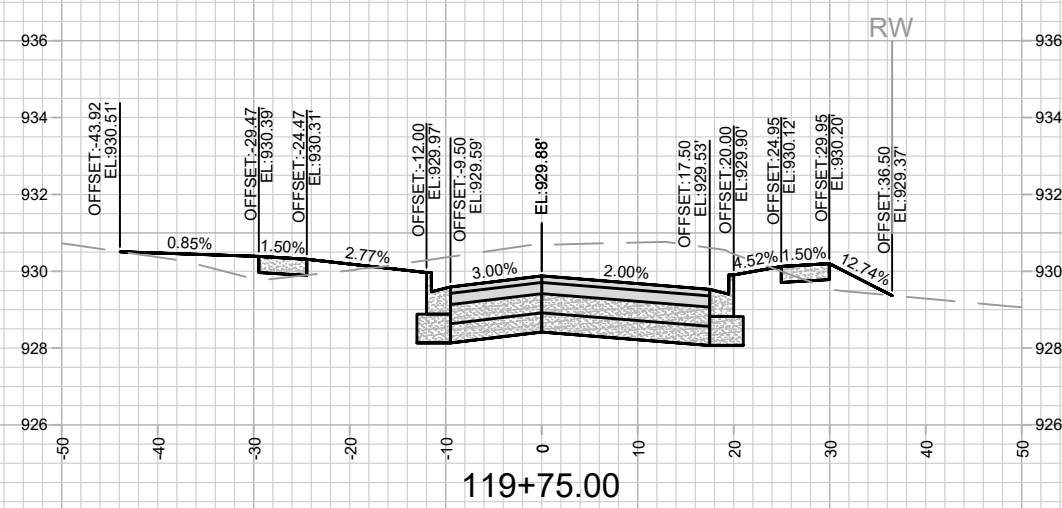
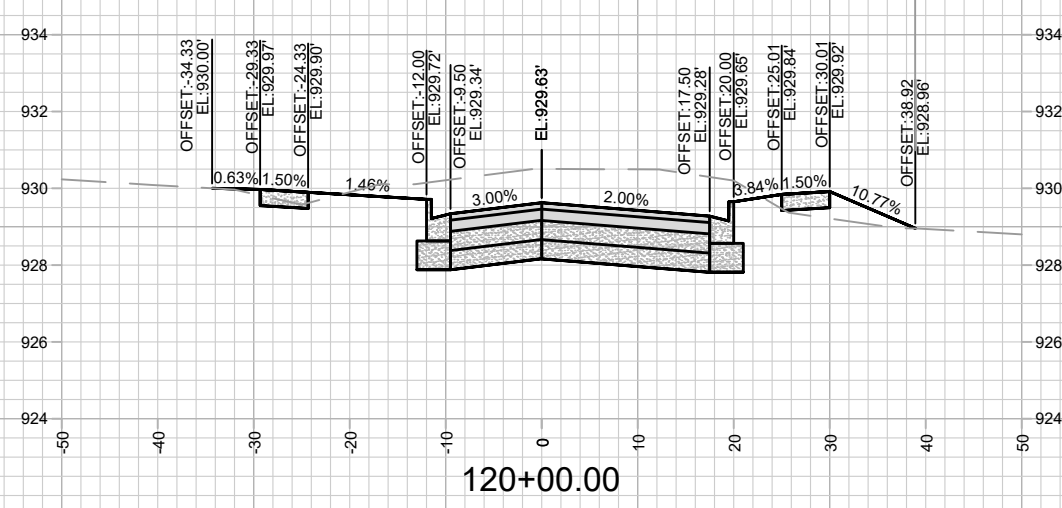
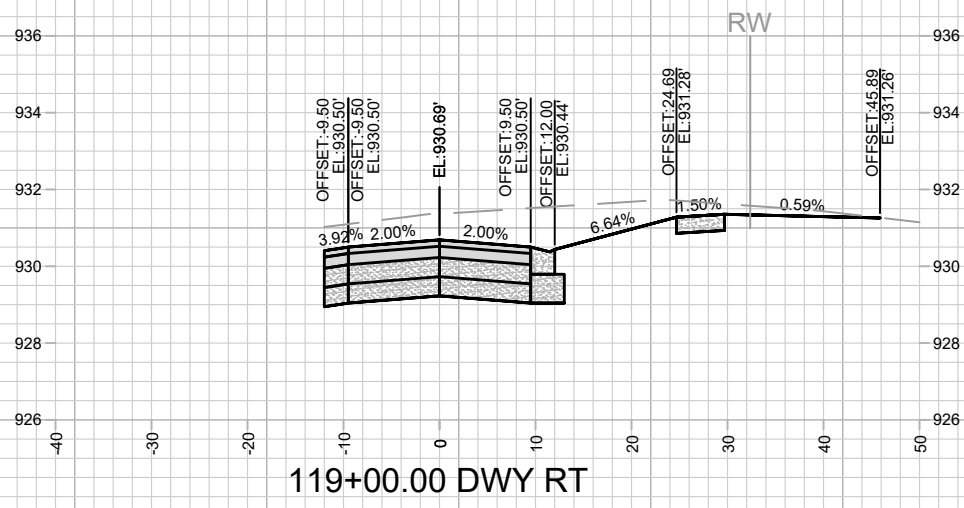
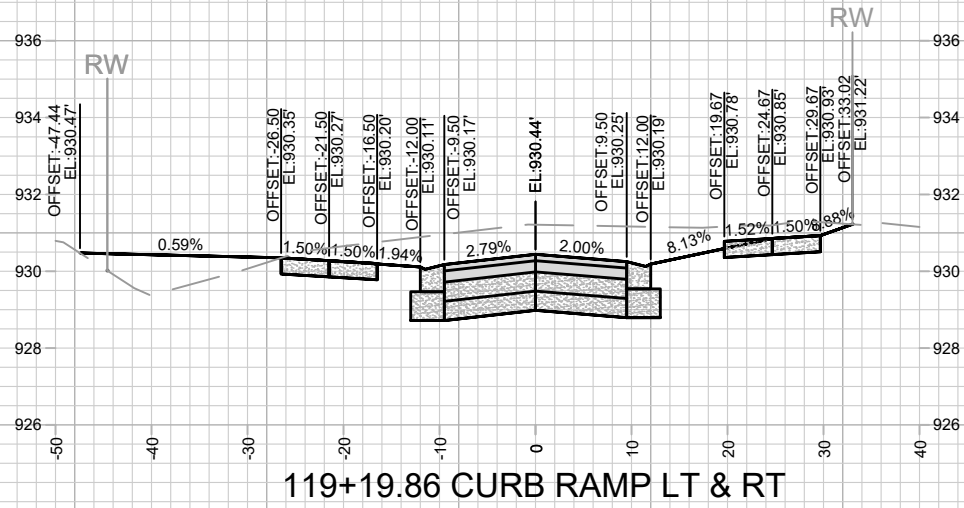
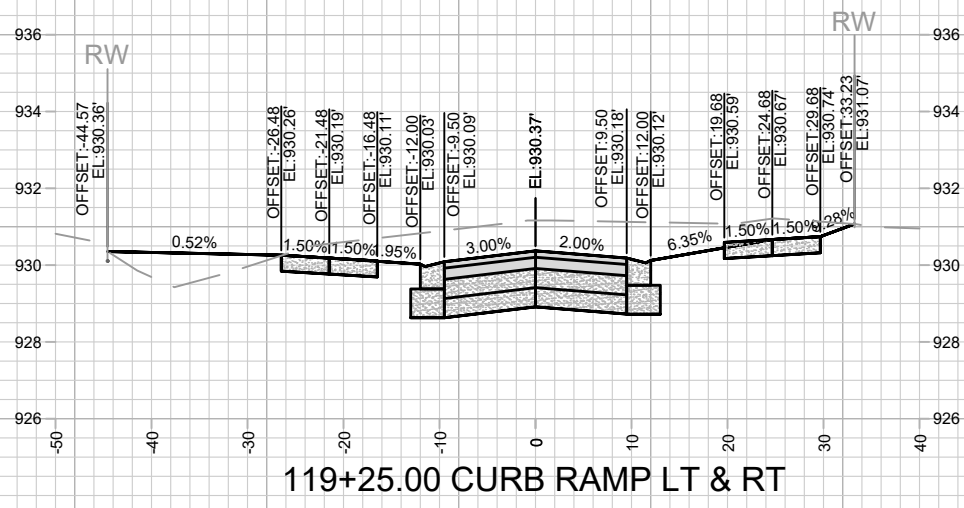
MARK	REVISION	DATE	BY

13812
MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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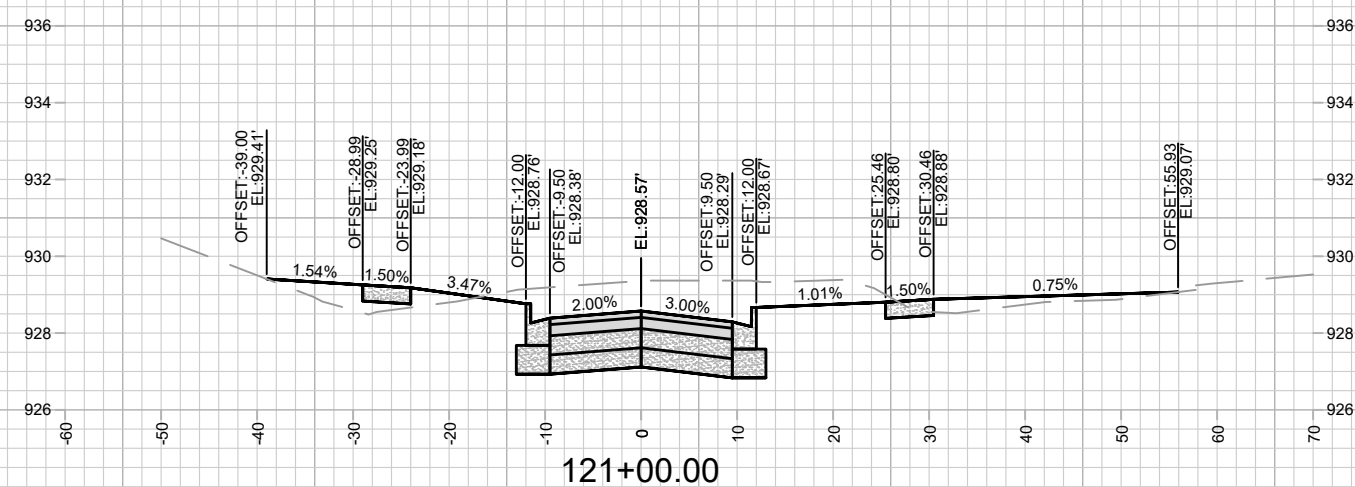
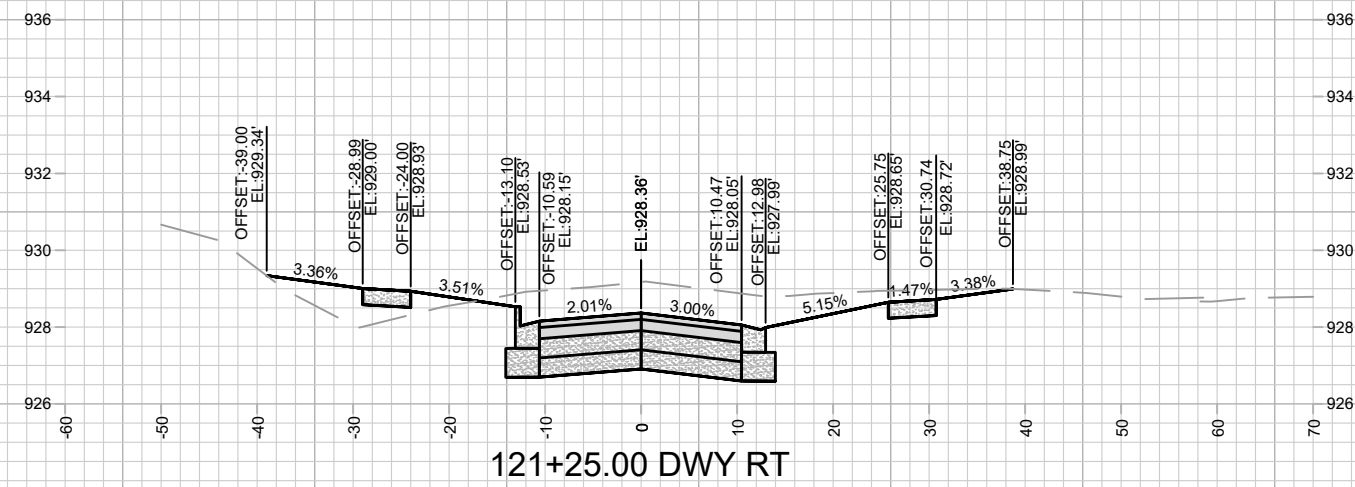
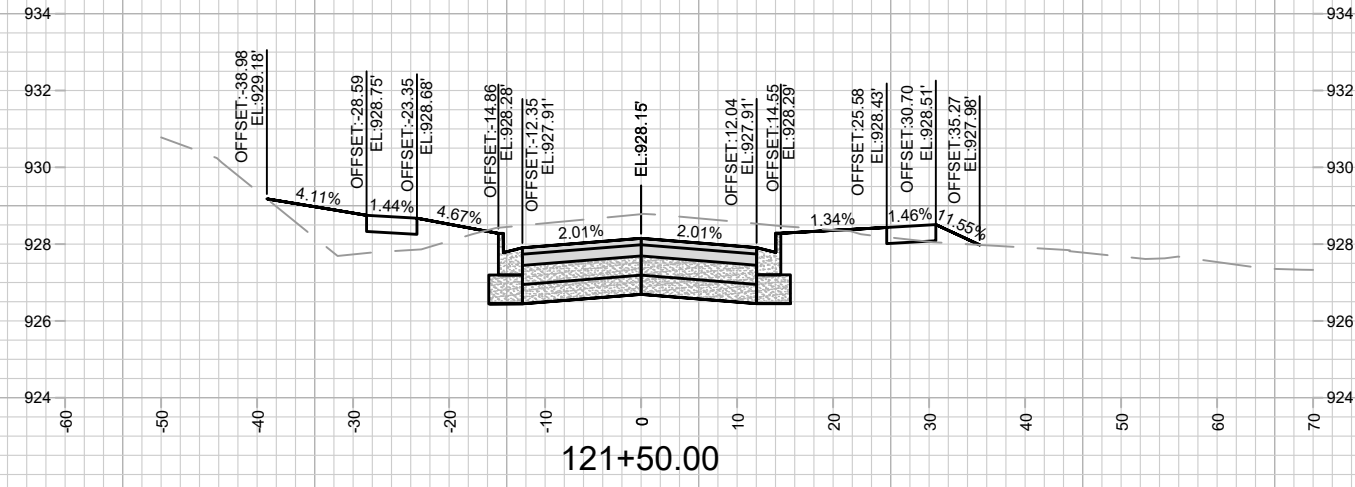
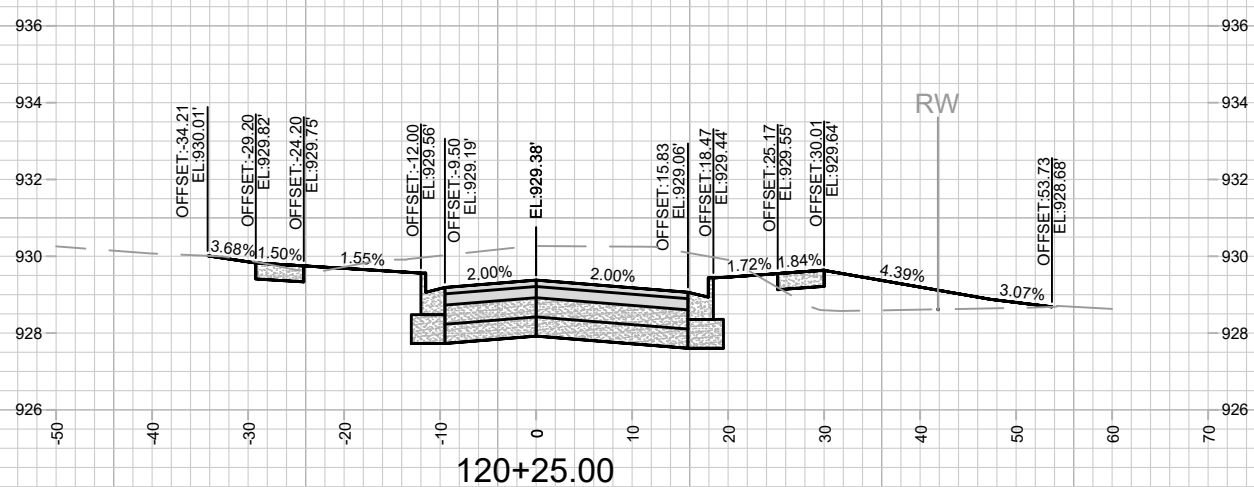
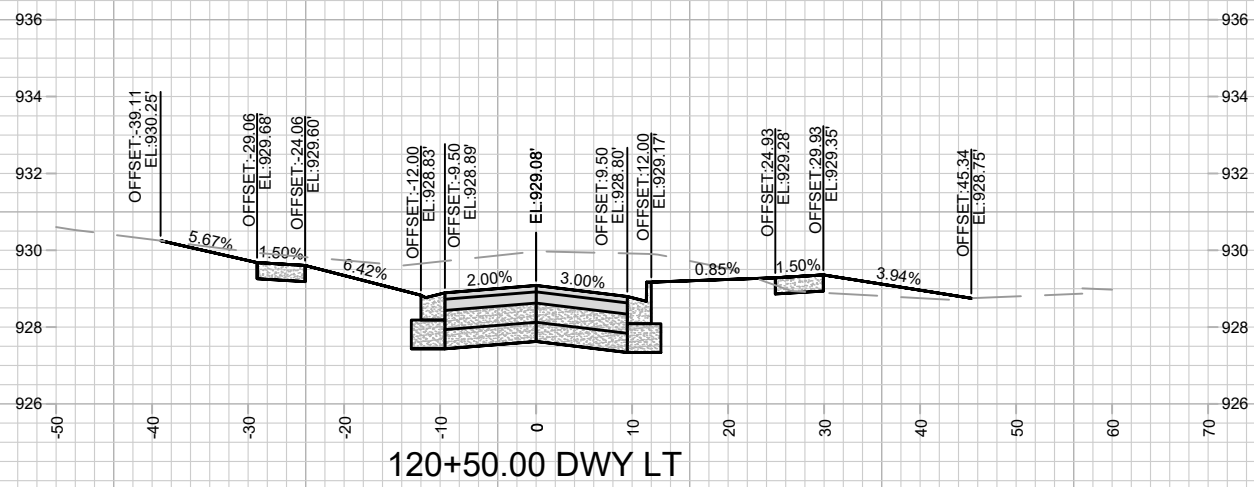
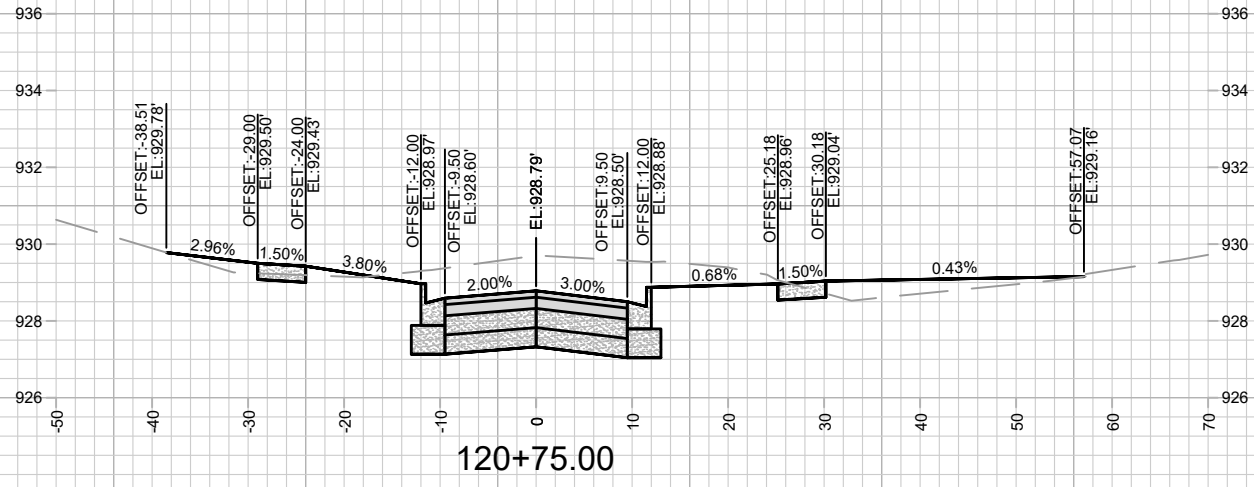
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X-9



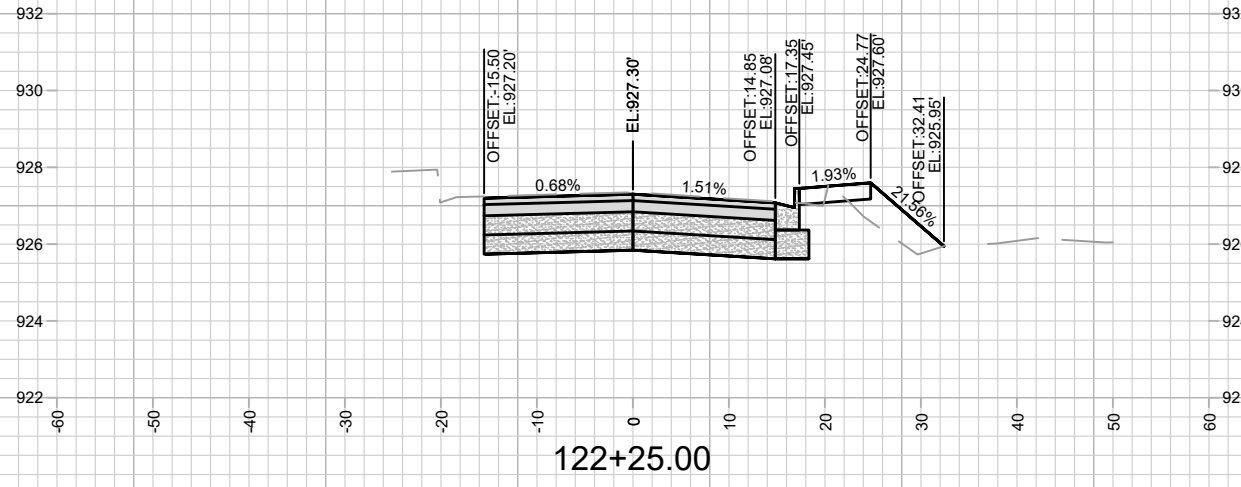
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Designed By: ALZ			Scale: 1" = 20'
Contract No: 8635			X-10

13812
 MADISON, WI
 KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
 CONTRACT NO: 8635
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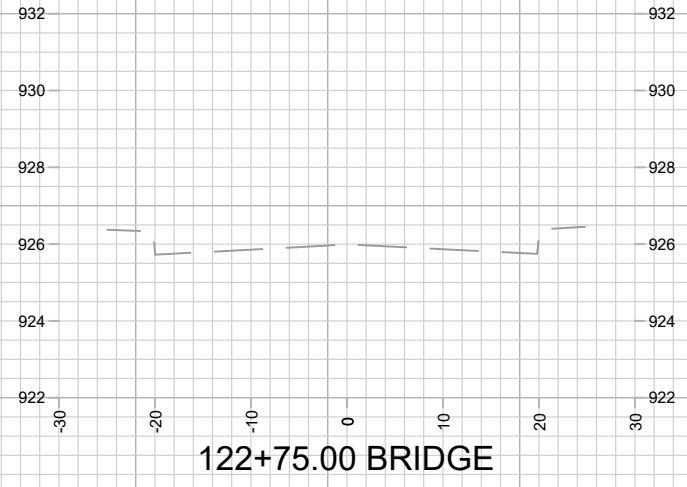
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 X-10



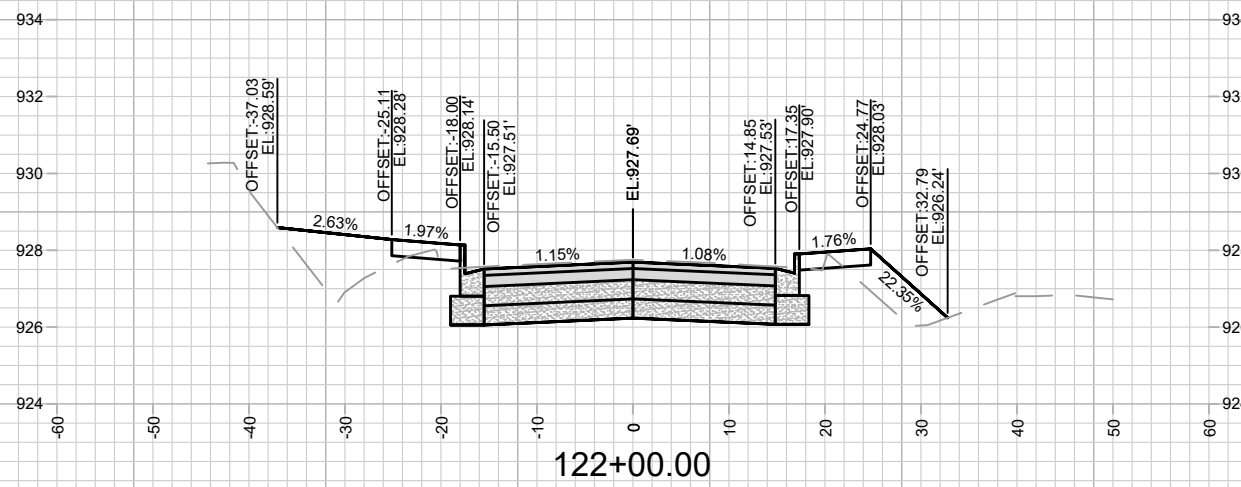
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KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS		
KNUTSON DRIVE RESURFACING/RECONSTRUCTION		
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MARK 13812	REVISION 13812	DATE X-11
Designed By: ALZ Date: 5/20/2024 3:19 PM		Scale: 1" = 20'
13812 MADISON, WI		8635 CONTRACT NO.:



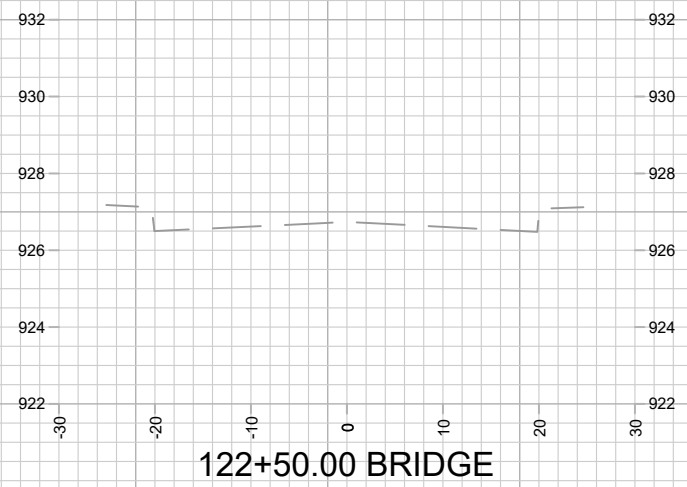
122+25.00



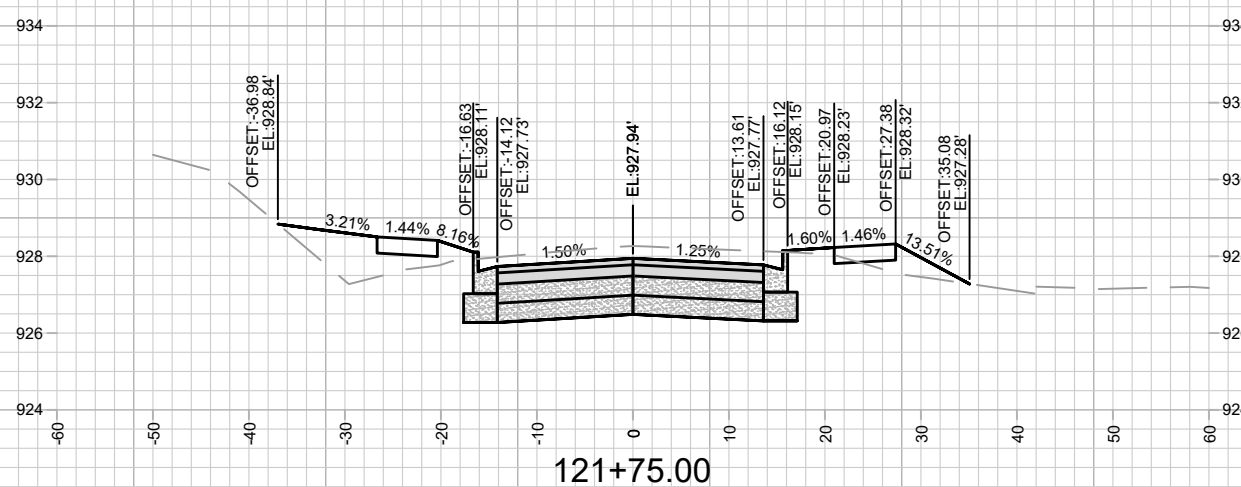
122+75.00 BRIDGE



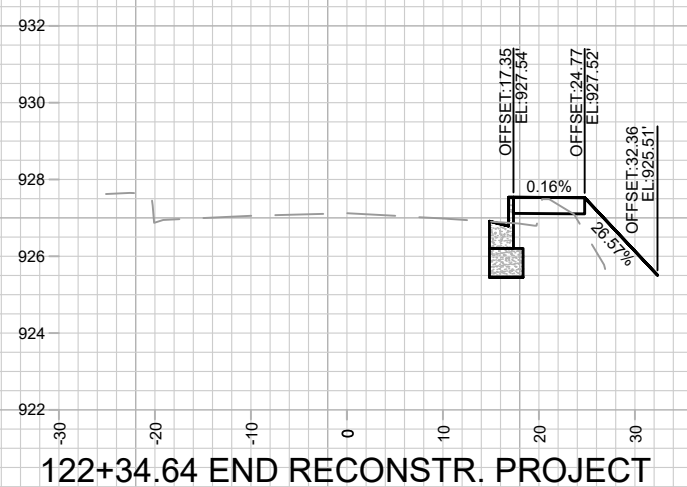
122+00.00



122+50.00 BRIDGE



121+75.00



122+34.64 END RECONSTR. PROJECT

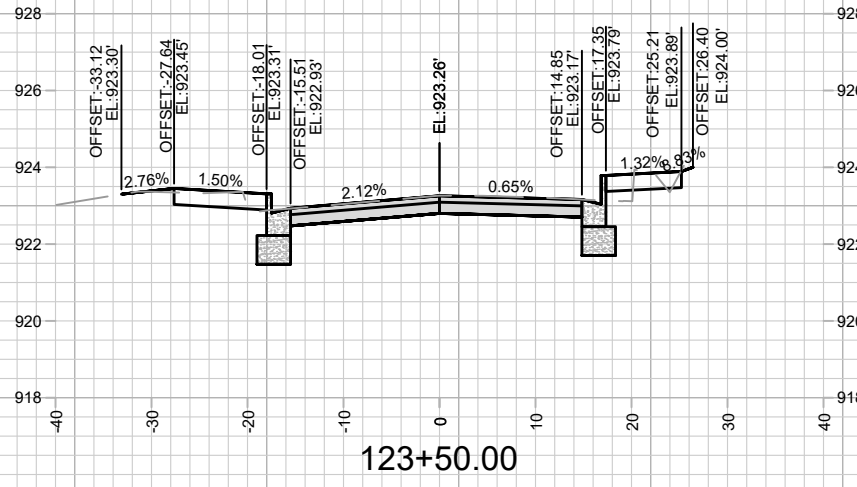
MARK	REVISION	DATE	BY

13812
 MADISON, WI
 8635
 CONTRACT NO:

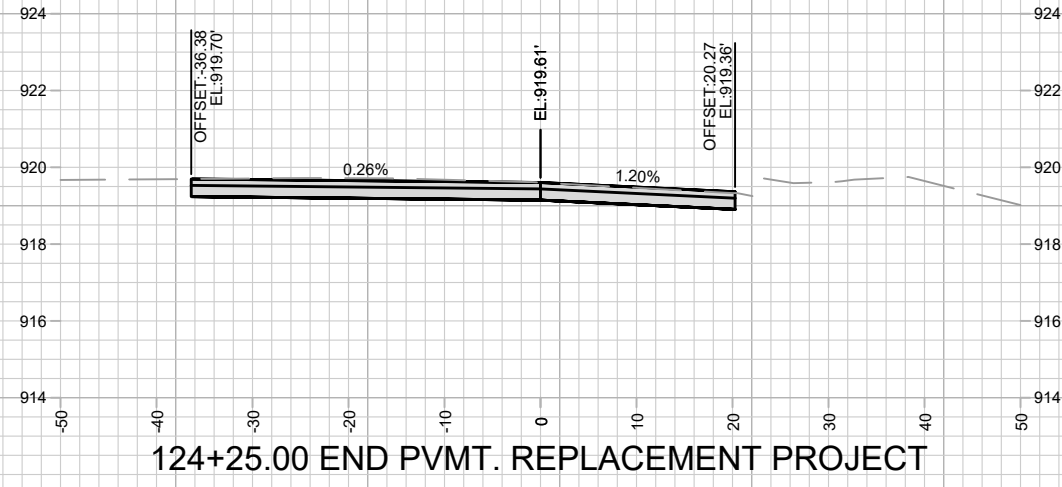
KNUTSON DRIVE RECONSTRUCTION CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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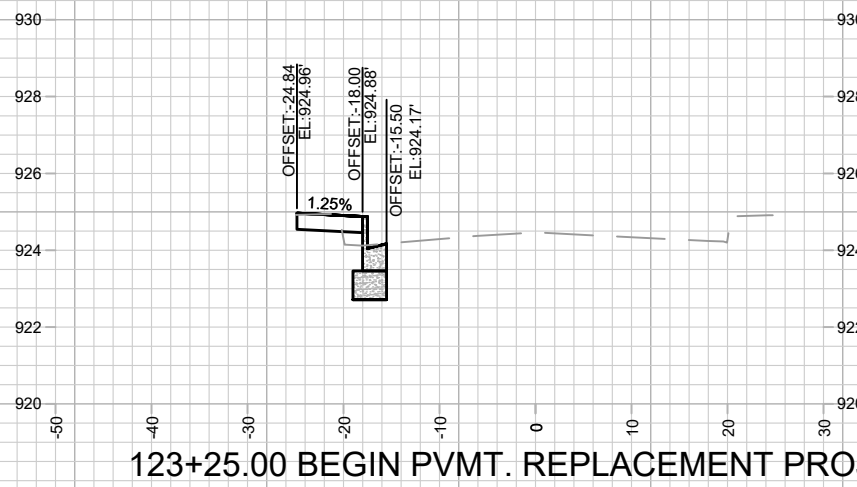
13812
 X-12



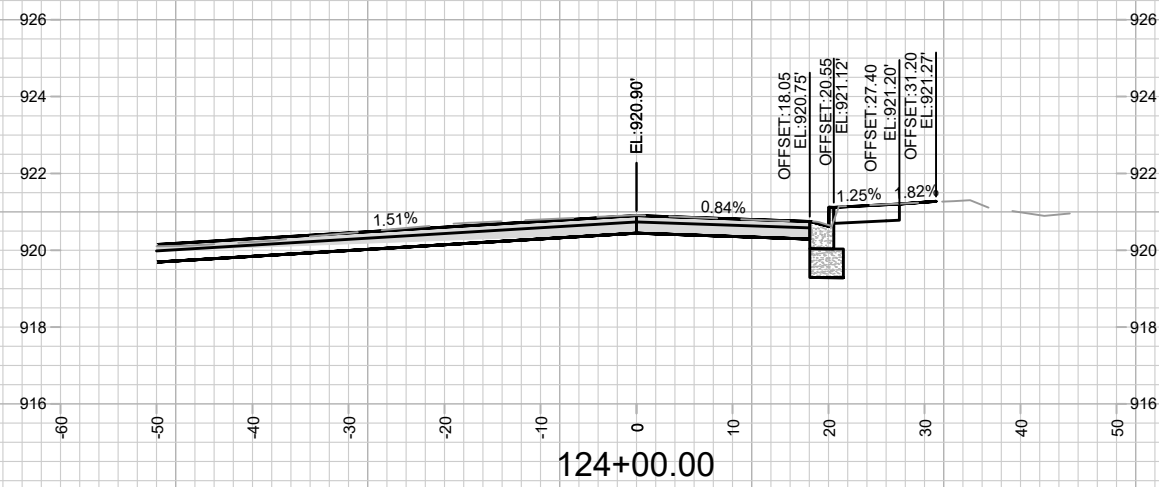
123+50.00



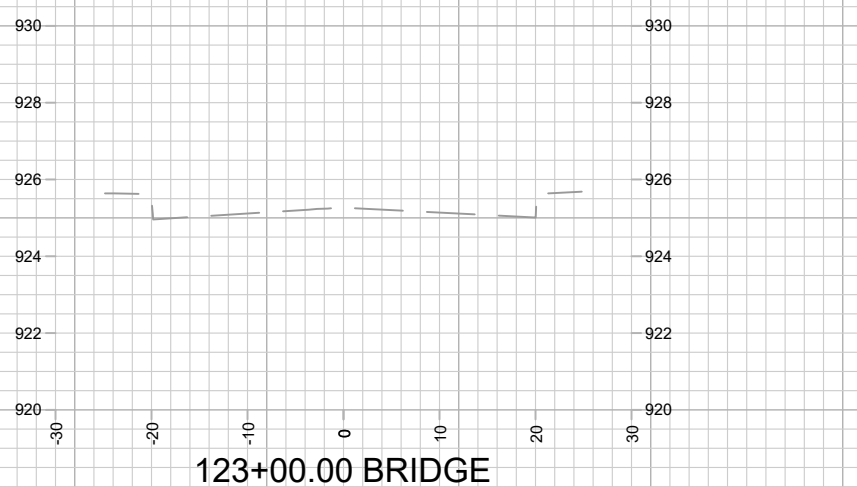
124+25.00 END PVMT. REPLACEMENT PROJECT



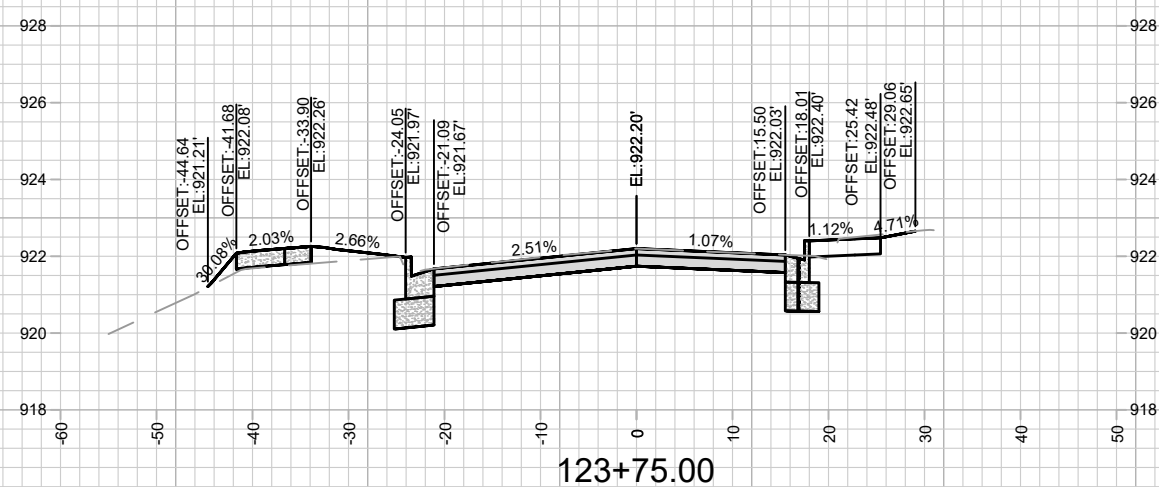
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124+00.00



123+00.00 BRIDGE



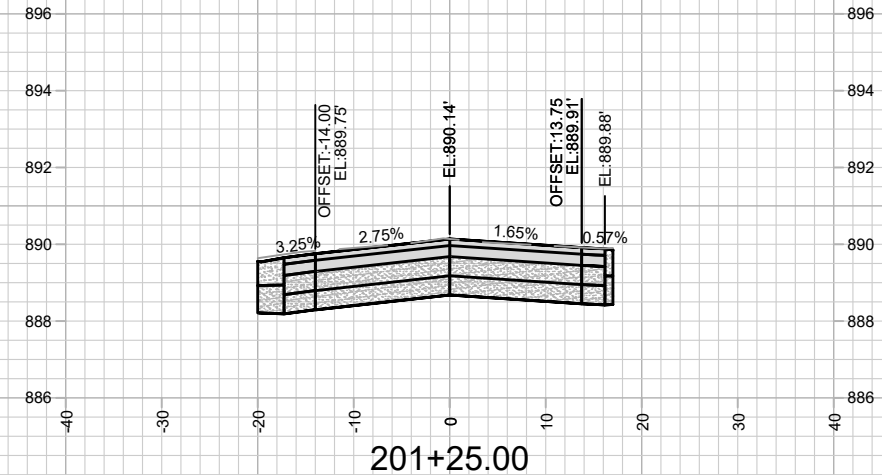
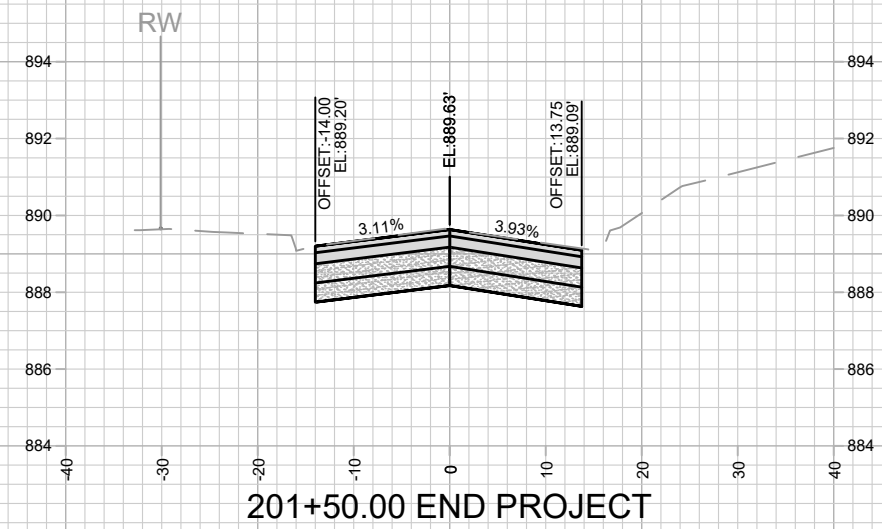
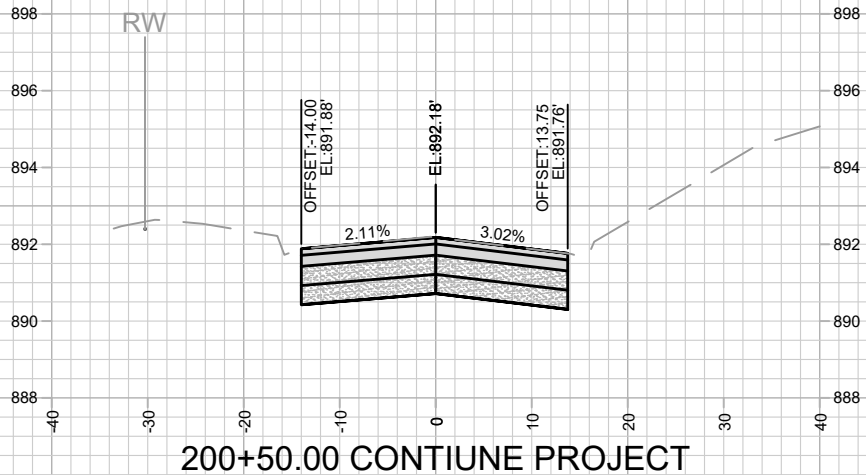
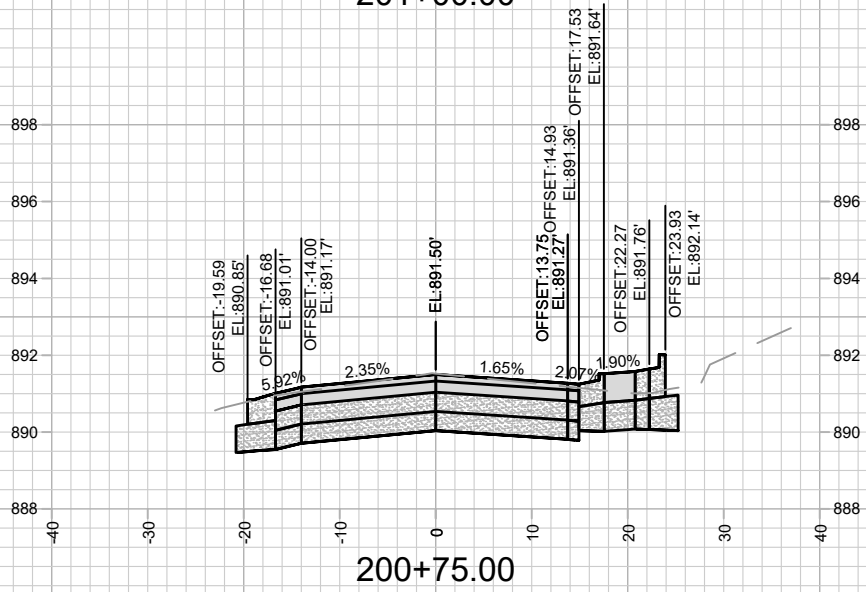
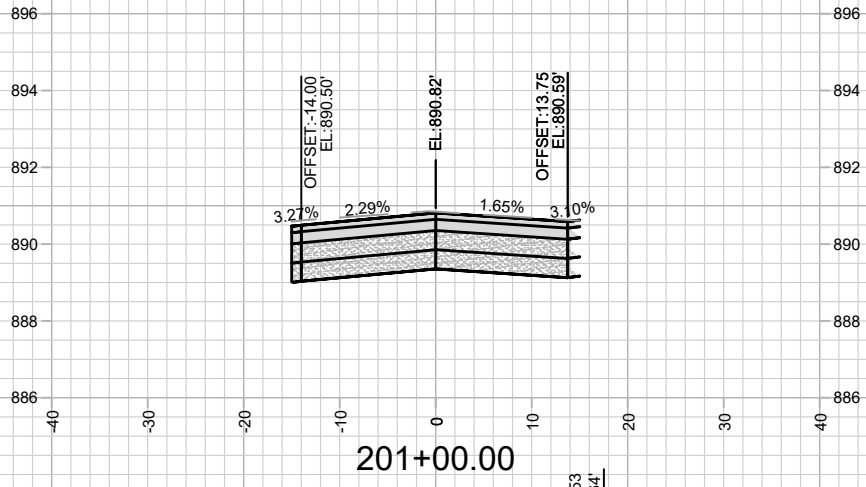
123+75.00

MARK	REVISION	DATE	BY
Designed By: ALZ	Date: 5/01/2024 3:19 PM		
13812			X-13

13812
 MADISON, WI
 CONTRACT NO: 8635
 KNUTSON DRIVE PVMT. REPLACEMENT CROSS SECTIONS
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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13812
 X-13

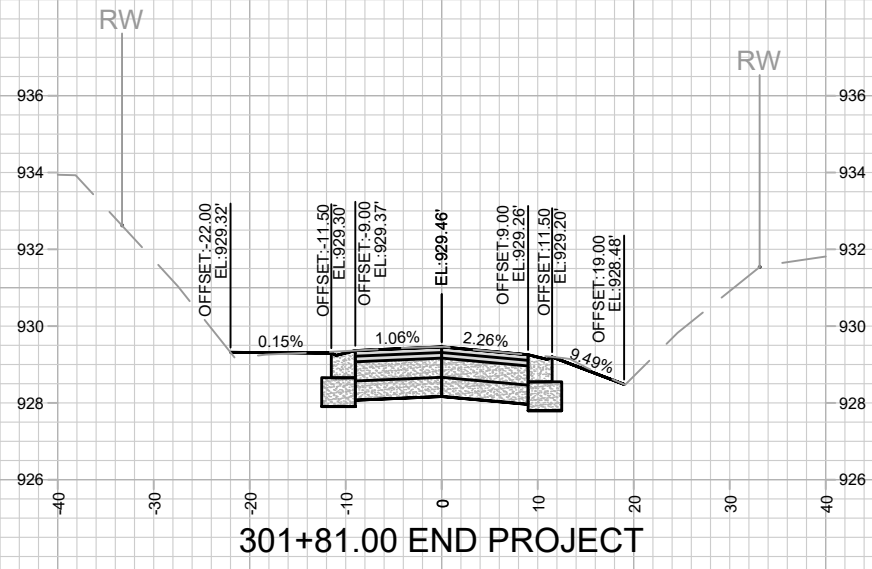


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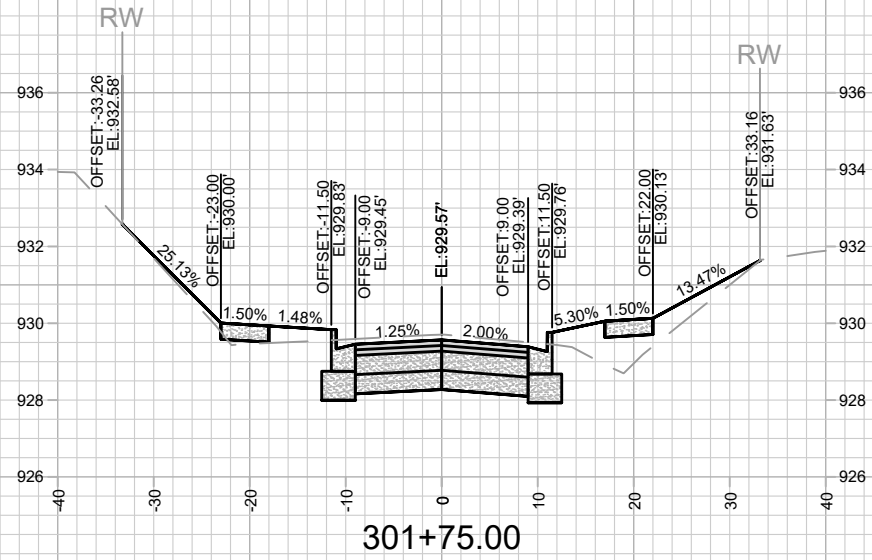
13812
 GREEN AVENUE RECONSTRUCTION CROSS SECTIONS
 MADISON, WI
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
 CONTRACT NO: 8635
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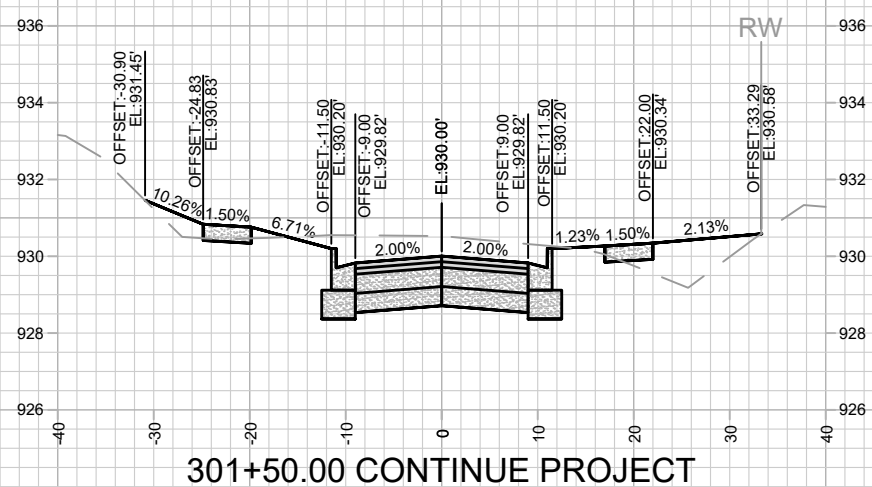
13812
 X-14



301+81.00 END PROJECT



301+75.00



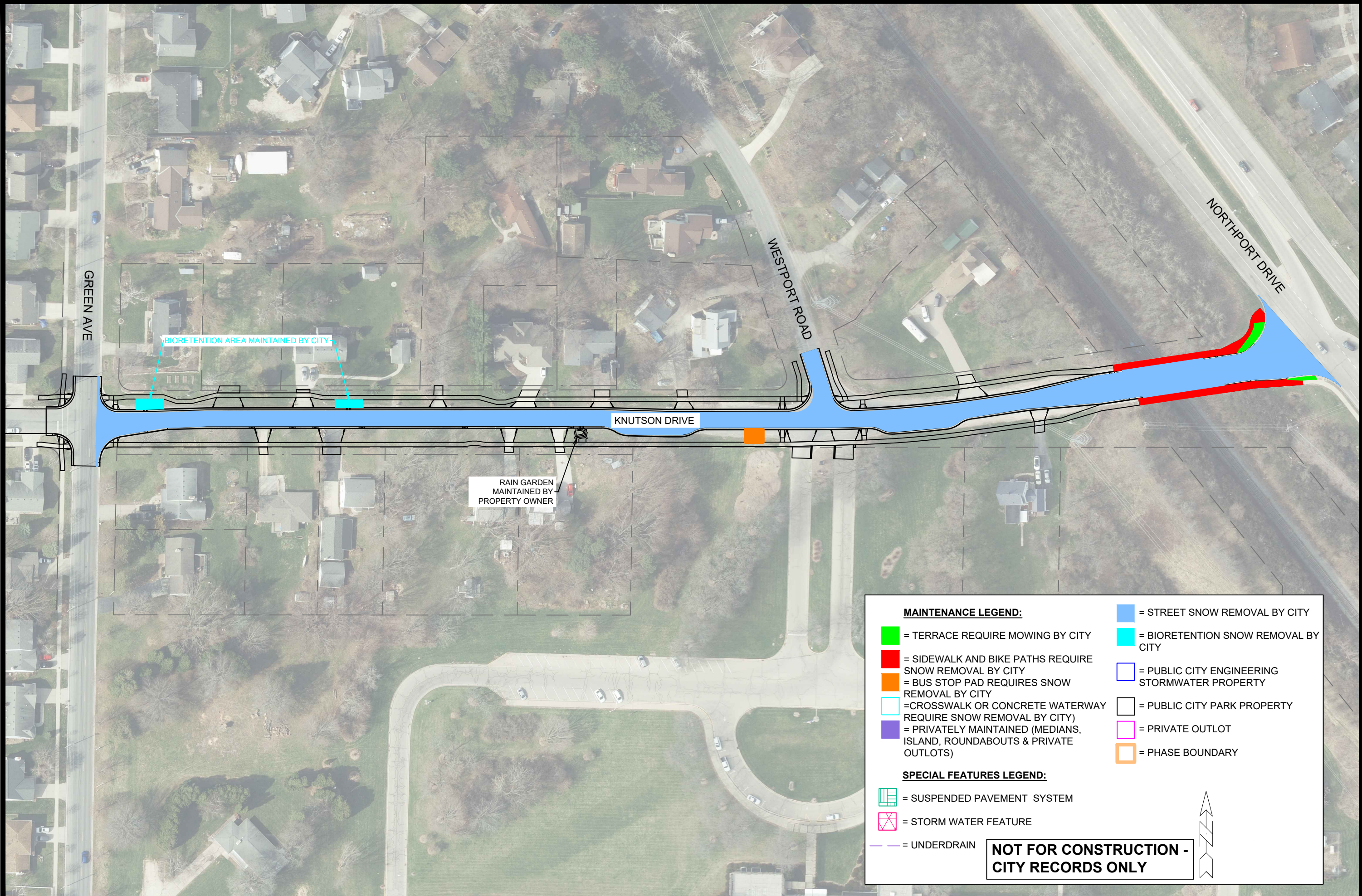
301+50.00 CONTINUE PROJECT

MARK	REVISION	DATE	BY
13812	5/00/2024	3:19 PM	X-15

13812
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 MADISON, WI
 KNUTSON DRIVE RESURFACING/RECONSTRUCTION
 CONTRACT NO: 8635
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- MAINTENANCE LEGEND:**
- = TERRACE REQUIRE MOWING BY CITY
 - = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
 - = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
 - = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
 - = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)
 - = STREET SNOW REMOVAL BY CITY
 - = BIORETENTION SNOW REMOVAL BY CITY
 - = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
 - = PUBLIC CITY PARK PROPERTY
 - = PRIVATE OUTLOT
 - = PHASE BOUNDARY

- SPECIAL FEATURES LEGEND:**
- = SUSPENDED PAVEMENT SYSTEM
 - = STORM WATER FEATURE
 - = UNDERDRAIN

NOT FOR CONSTRUCTION - CITY RECORDS ONLY



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13812	5/30/2024 3:20 PM		MN-1

13812
MADISON, WI
8635
CONTRACT NO:

KNUTSON DRIVE MAINTANENCE PLAN
KNUTSON DRIVE RESURFACING/RECONSTRUCTION
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