



Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

## DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

## BIKEWAYS 2023

### INDEX OF SHEETS

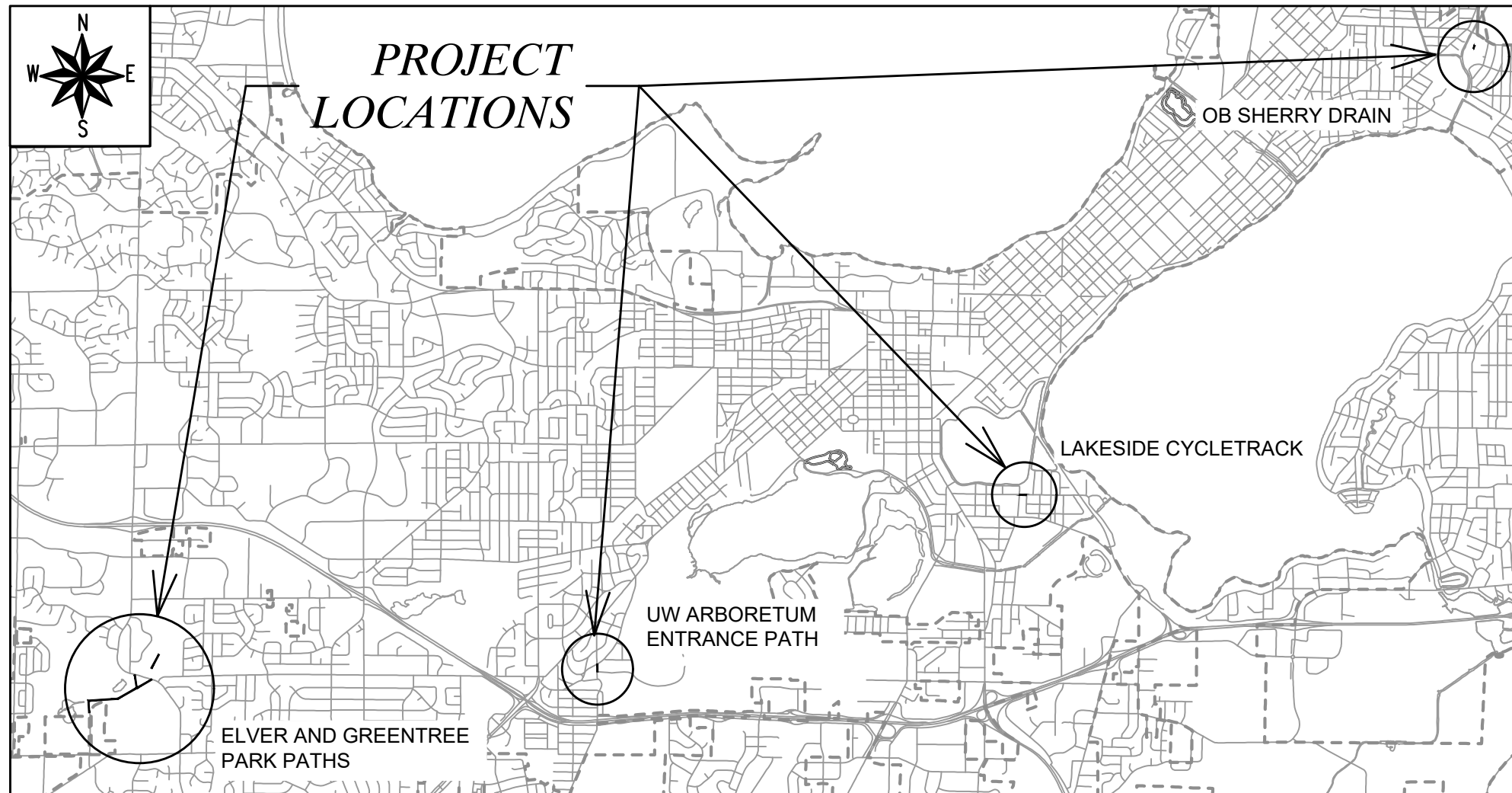
SHEET NO.	NOTES AND DETAILS
D1	NOTES AND DETAILS
D2	UW TREE PROTECTION DETAIL
EC1	EROSION CONTROL PLAN STREET
P1-P3A	PLAN & PROFILES
U1-U2	UTILITY PLAN & PROFILES
USTM	STORM SEWER SCHEDULE
M1-M8	PAVEMENT MARKING PLANS
X1-X2	CROSS SECTIONS
MN1	MAINTENANCE PLAN (CITY USE ONLY)

CITY PROJECT NO. 14336  
CONTRACT NO. 8696

### EARTHWORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY).....	422 CY
ESTIMATED UNDISTRIBUTED UNDERCUT.....	180 CY
TOTAL UNCLASSIFIED EXCAVATION CUT.....	602 CY

REVISION #2- 7/11/2024  
REVISED THE  
FOLLOWING:  
SHEET P-1  
SHEETS U-1, U-STM



PUBLIC IMPROVEMENT PROJECT  
APPROVED

JANUARY 9TH, 2024

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

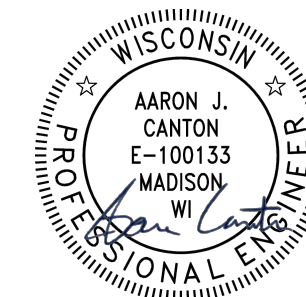
PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

Jan 18, 2024

City Engineer

Date

STREET  
DESIGNED BY:



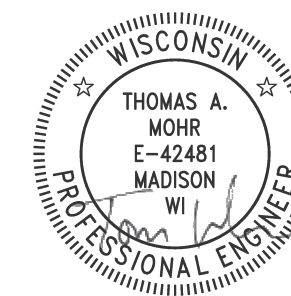
Jan 18, 2024

STORM SEWER  
DESIGNED BY:



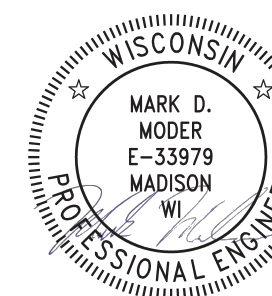
Jan 18, 2024

PAVEMENT MARKINGS  
DESIGNED BY:



Jan 18, 2024

SANITARY SEWER  
DESIGNED BY:



Jan 18, 2024

PLOT SCALE: 1 IN:1 FT\_XREF

PLOT NAME: ---

REV. DATE: 1/12/2024 12:29 PM

ORIGINATOR: CITY\_OF\_MADISON

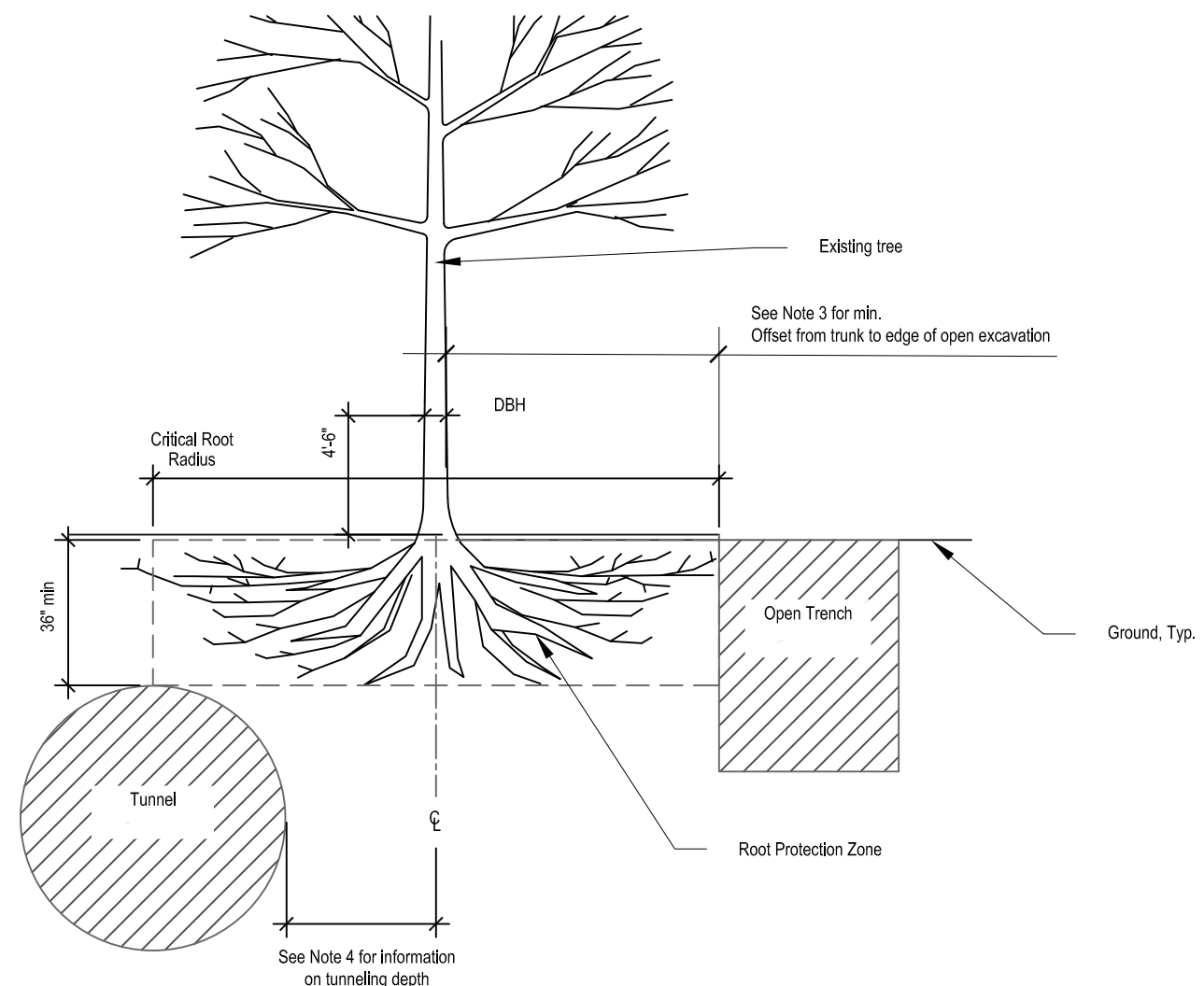


**Campus Standard Tree Protection**

**Details**

Project:	Date: 10/05/2015		Project Number:
Drawing Title:	Designed By: CPLA		Drawn By: CPLA
Building Number:	Revision No.: 1	Date: 06/30/2022	By: JLB
File Location:	L:\ACAD\PLANNING\Details Title Blocks\Blocks\Details\Planting\Planting\PlantingDetails_01.10.22.dwg		

Graphic Scale:	
North:	Sheet: D-2
Of: 5	



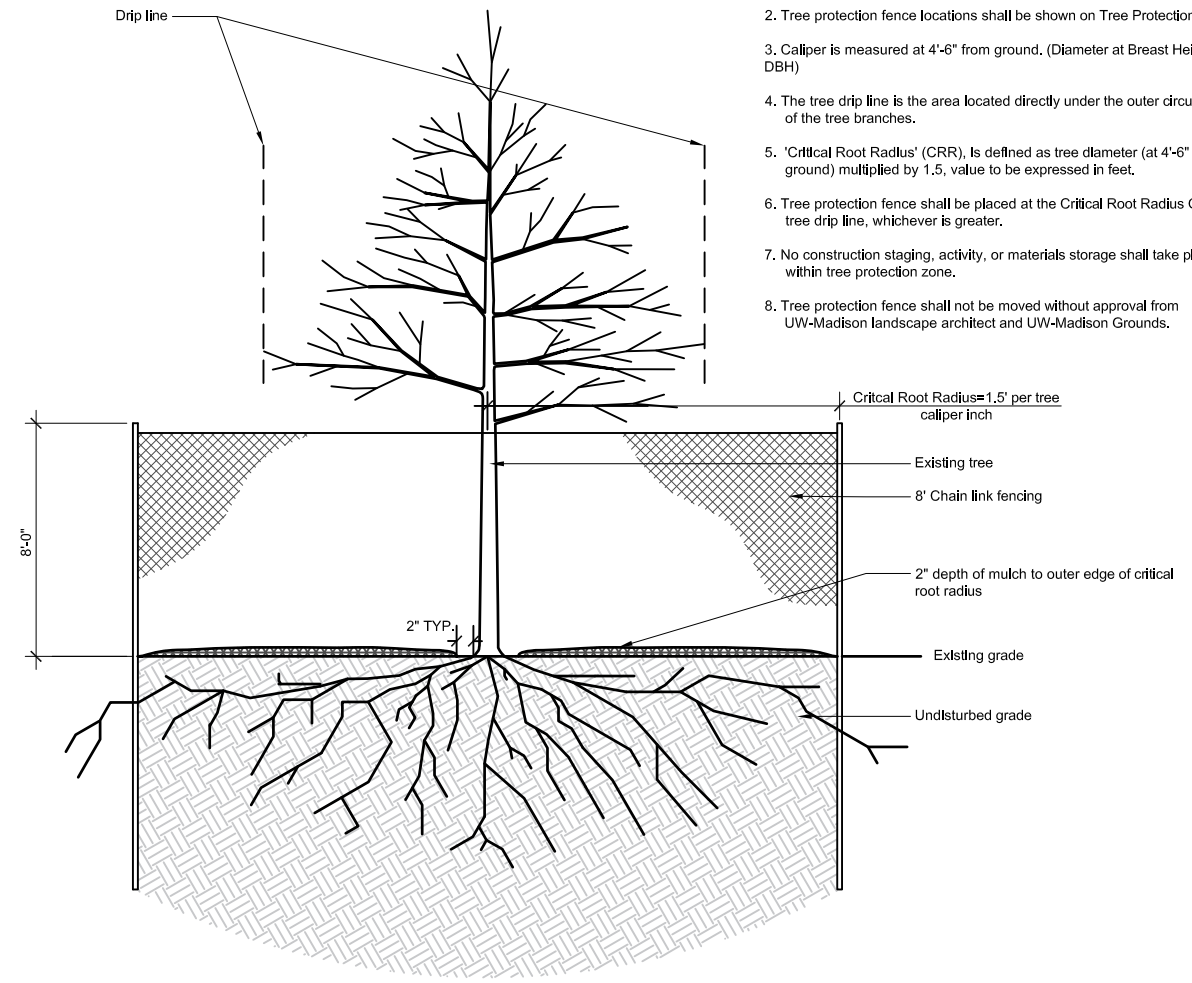
- NOTES:**
1. DBH [Diameter Breast Height]: The trunk diameter measured at 4'-6" above ground level.
  2. CRR [Critical Root Radius]: The surface area surrounding the trunk containing the roots that provide water and nutrient uptake to the tree. It is defined as tree diameter (at 4'-6" from ground) multiplied by 1.5, value to be expressed in feet.
    - a. Disturbing greater than 25% of the CRR is unacceptable unless authorized by UW-Madison landscape architect.
    - b. The cluster of larger roots immediately surrounding the trunk which provides tree stability (root plate) shall be protected from damage at all times.
  3. Cleanly hand-cut any exposed roots within the open trench using clean and sharp tool. Do not rip or tear.

Tree diameter @ DBH	Min distance from tree trunk to open trench
Less than 6 inches	6-Feet
6-9 Inches	9-Feet
10-14 Inches	14-Feet
15-19 inches	19-Feet
More than 19 inches	Dia. @ DBH x 1-1.5 (Feet)

4. Tunnels within the CRR must be a minimum of 36" below surface grade and a minimum of 24" laterally away from trunk of tree.
5. Provide supplemental water for protected trees. 1" per week when no rainfall. Do not apply N-P-K fertilizers.

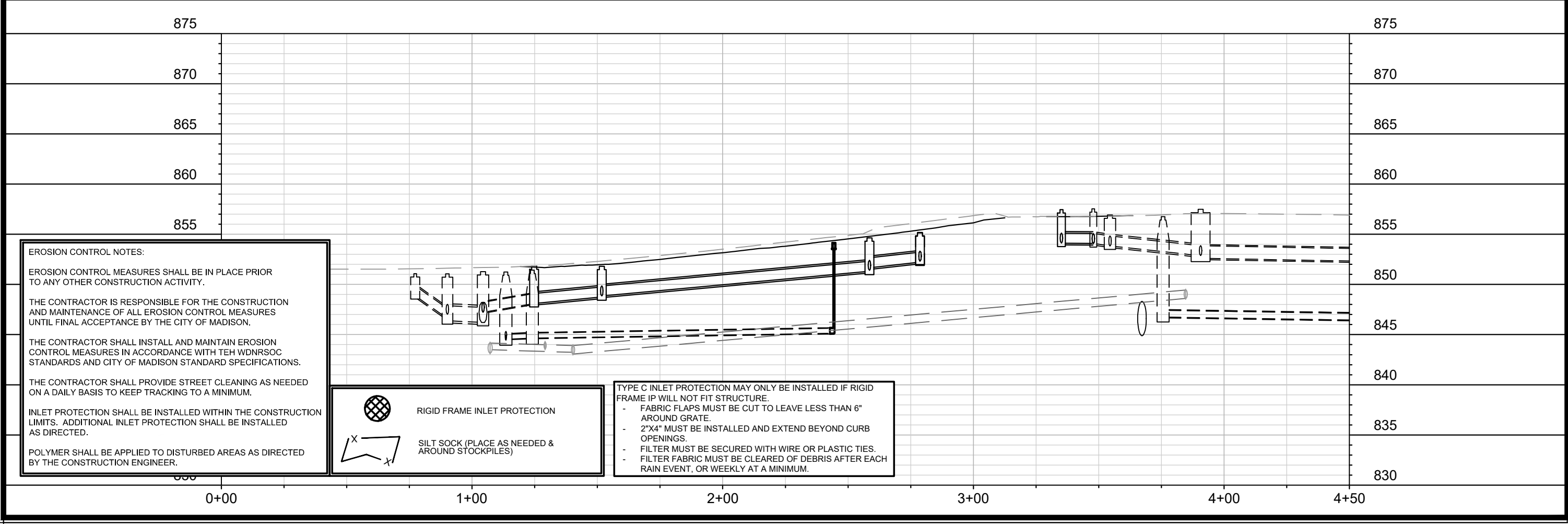
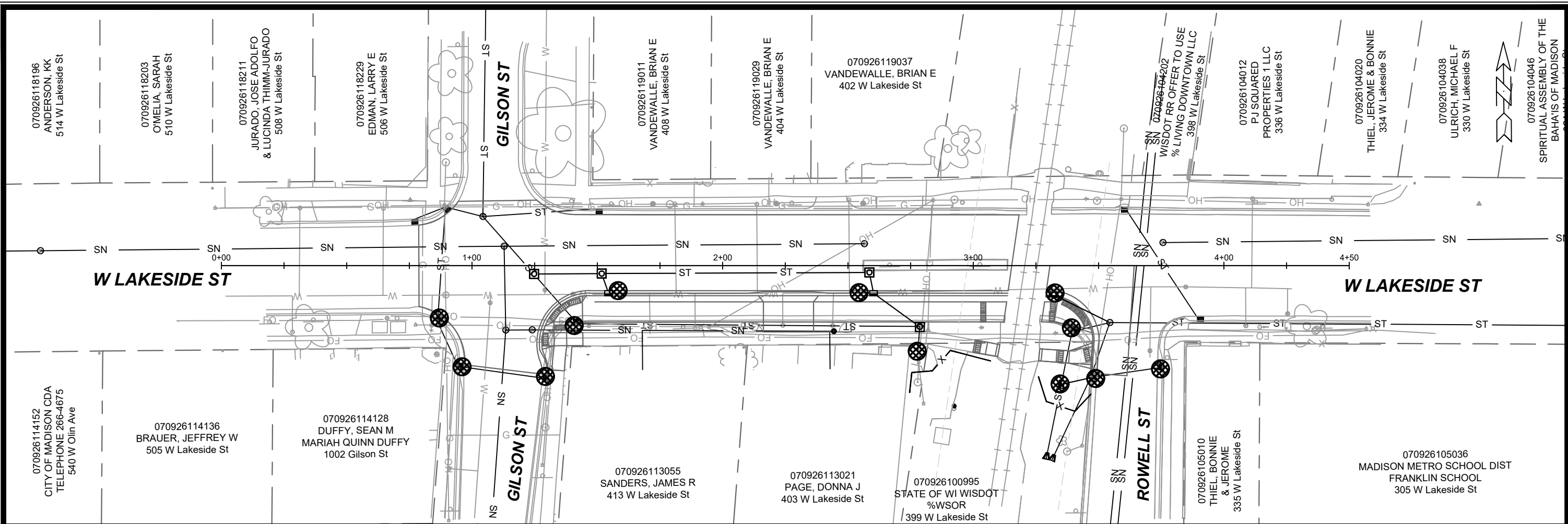
**2** TREE PROTECTION FENCE DETAIL  
D-2 SCALE: NOT TO SCALE

- NOTES:**
1. Do not drive posts into any structural root or root over 1/2" wide.
  2. Tree protection fence locations shall be shown on Tree Protection Plan.
  3. Caliper is measured at 4'-6" from ground. (Diameter at Breast Height-DBH)
  4. The tree drip line is the area located directly under the outer circumference of the tree branches.
  5. 'Critical Root Radius' (CRR), is defined as tree diameter (at 4'-6" from ground) multiplied by 1.5, value to be expressed in feet.
  6. Tree protection fence shall be placed at the Critical Root Radius OR the tree drip line, whichever is greater.
  7. No construction staging, activity, or materials storage shall take place within tree protection zone.
  8. Tree protection fence shall not be moved without approval from UW-Madison landscape architect and UW-Madison Grounds.



**1** TREE PROTECTION FENCE DETAIL  
D-2 SCALE: NOT TO SCALE





**EROSION CONTROL NOTES:**

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

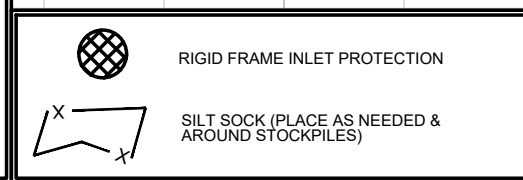
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 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.

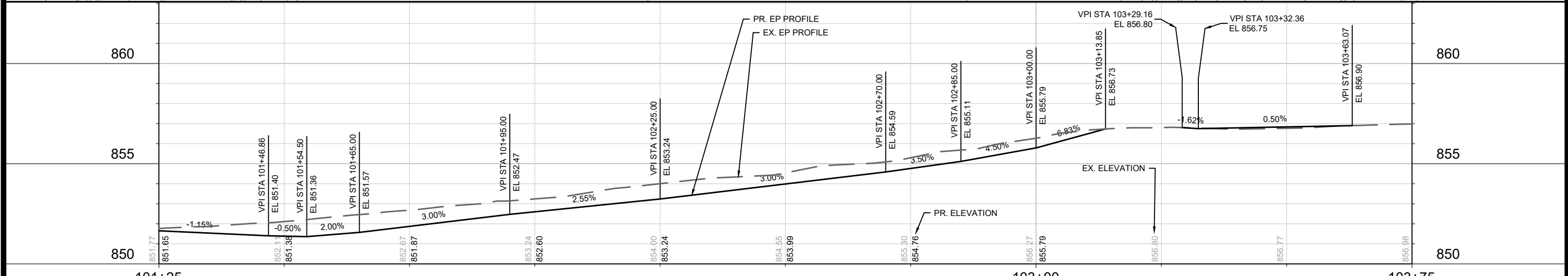
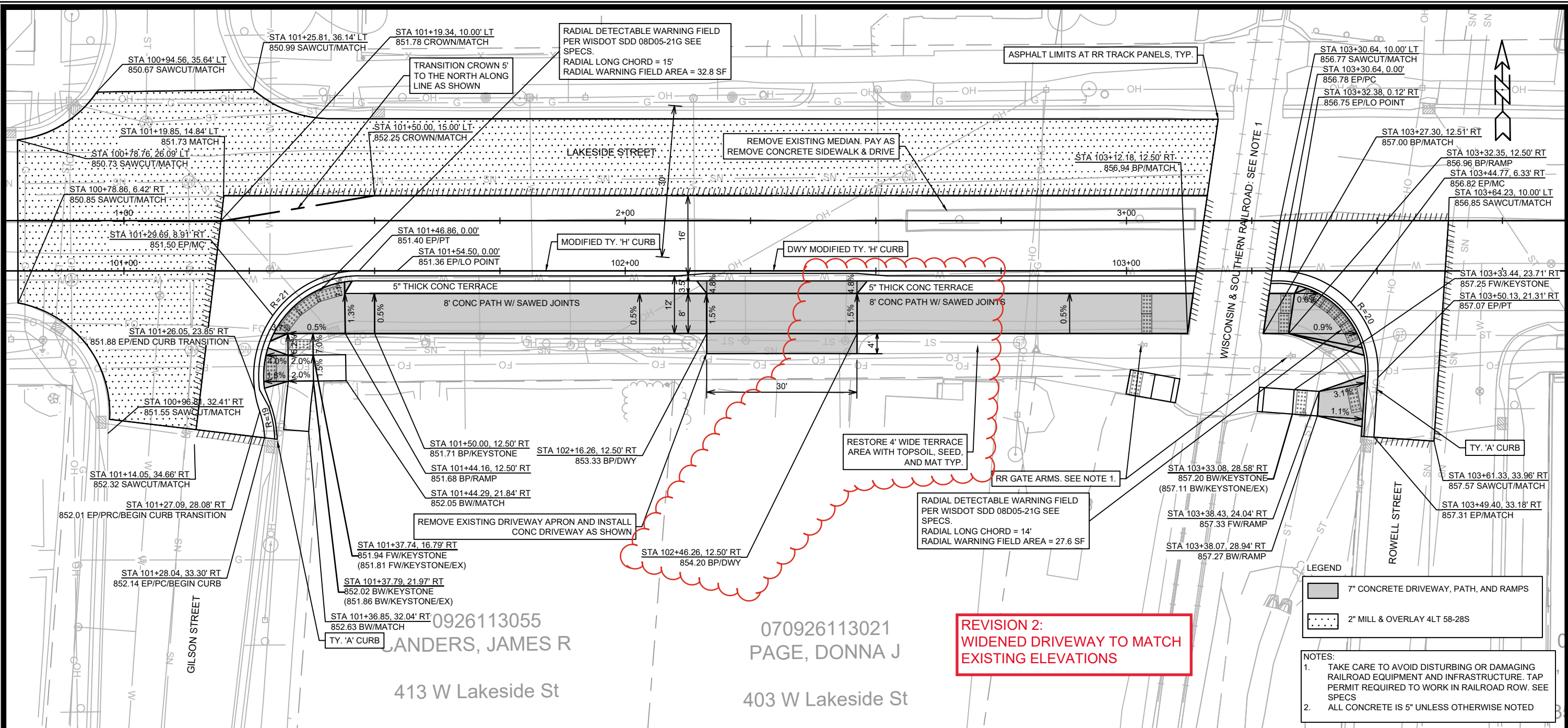


TYPE C INLET PROTECTION MAY ONLY BE INSTALLED IF RIGID FRAME IP WILL NOT FIT STRUCTURE.

- FABRIC FLAPS MUST BE CUT TO LEAVE LESS THAN 6" AROUND GRATE.
- 2"X4" MUST BE INSTALLED AND EXTEND BEYOND CURB OPENINGS.
- FILTER MUST BE SECURED WITH WIRE OR PLASTIC TIES.
- FILTER FABRIC MUST BE CLEARED OF DEBRIS AFTER EACH RAIN EVENT, OR WEEKLY AT A MINIMUM.

14336	Madison, WI	8696	CONTRACT NO.:
EROSION CONTROL - W LAKESIDE ST			
BIKEWAYS 2023			
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14336		EC-1	





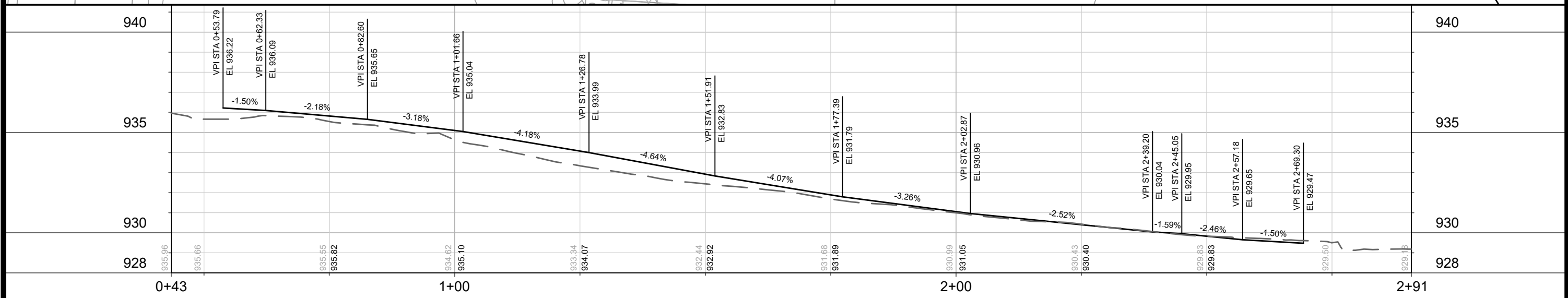
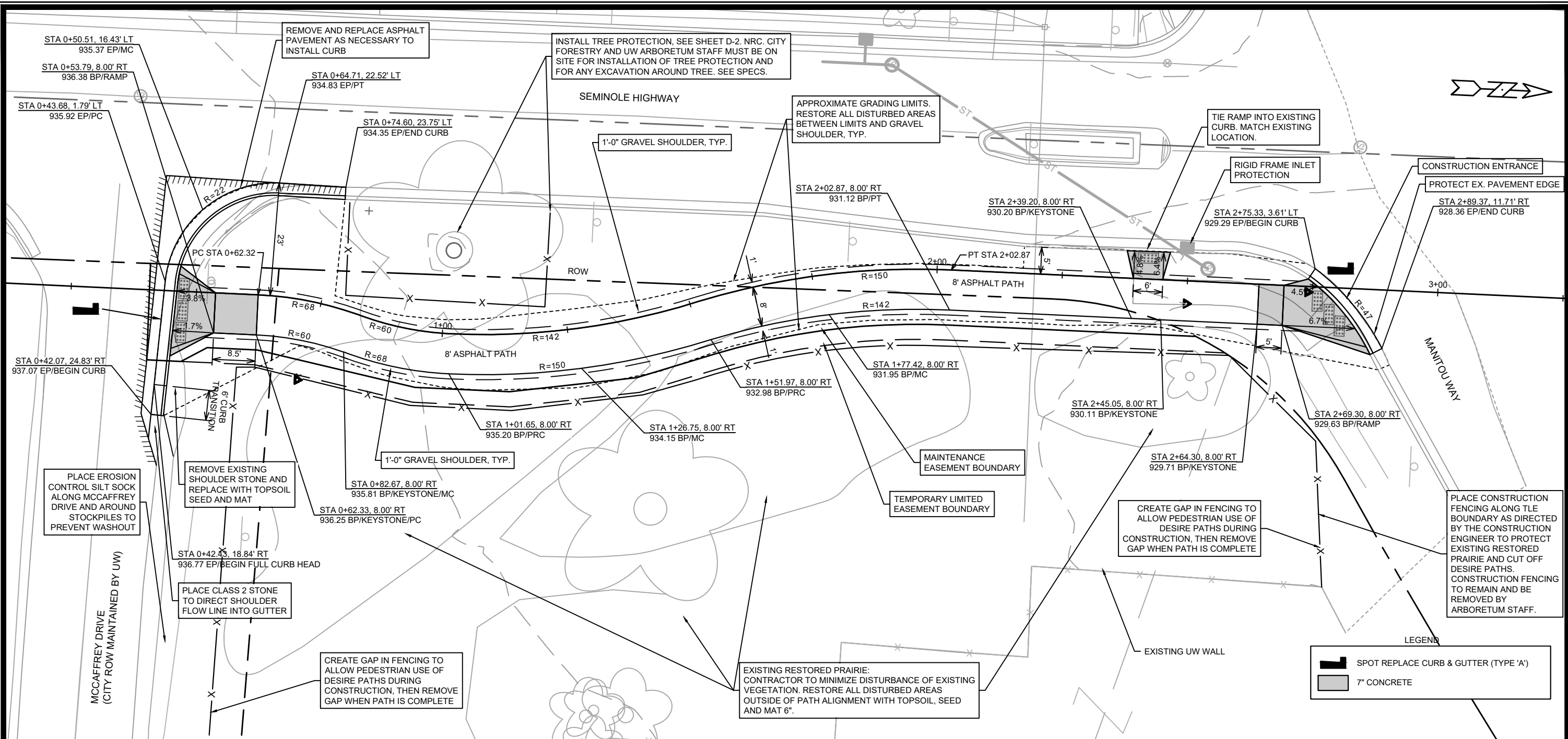
**REVISION 2:  
WIDENED DRIVEWAY TO MATCH  
EXISTING ELEVATIONS**

0926113055  
ANDERS, JAMES R  
413 W Lakeside St

070926113021  
PAGE, DONNA J  
403 W Lakeside St

- LEGEND**
- 7" CONCRETE DRIVEWAY, PATH, AND RAMPS
  - 2" MILL & OVERLAY 4LT 58-28S
- NOTES:**
- TAKE CARE TO AVOID DISTURBING OR DAMAGING RAILROAD EQUIPMENT AND INFRASTRUCTURE. TAP PERMIT REQUIRED TO WORK IN RAILROAD ROW. SEE SPECS
  - ALL CONCRETE IS 5" UNLESS OTHERWISE NOTED

DATE	BY	11/14/2024	P-1
REVISION	14336		
MARK	14336		
DESIGNED BY	14336		
CONTRACT NO.	14336		
PLAN & PROFILE	LAKESIDE CYCLETRACK		
	BIKEWAYS 2023		
	M:\DESIGN\Projects\14336\CAD\Streets\14336EN-PnP_Lakeside.dwg		
	14336		
	P-1		



DATE	BY
REVISION	
DESIGNED BY: MFG	DATE: 1/17/2024 12:47 PM
SCALE: 1" = 20'	
MARK	14336

**14336**

**MADISON, WI**

**8696**

**CONTRACT NO.:**

**PLAN & PROFILE UW ARBORETUM ENTRANCE PATH**

**BIKEWAYS 2023**

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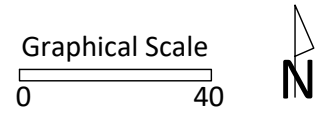
**14336**

**P-2**









PROJECT:

*BIKEWAYS  
 2023*

PROJECT ADDRESS:

*ELVER PARK  
 1250 MCKENNA BLVD  
 MADISON, WI 53719*

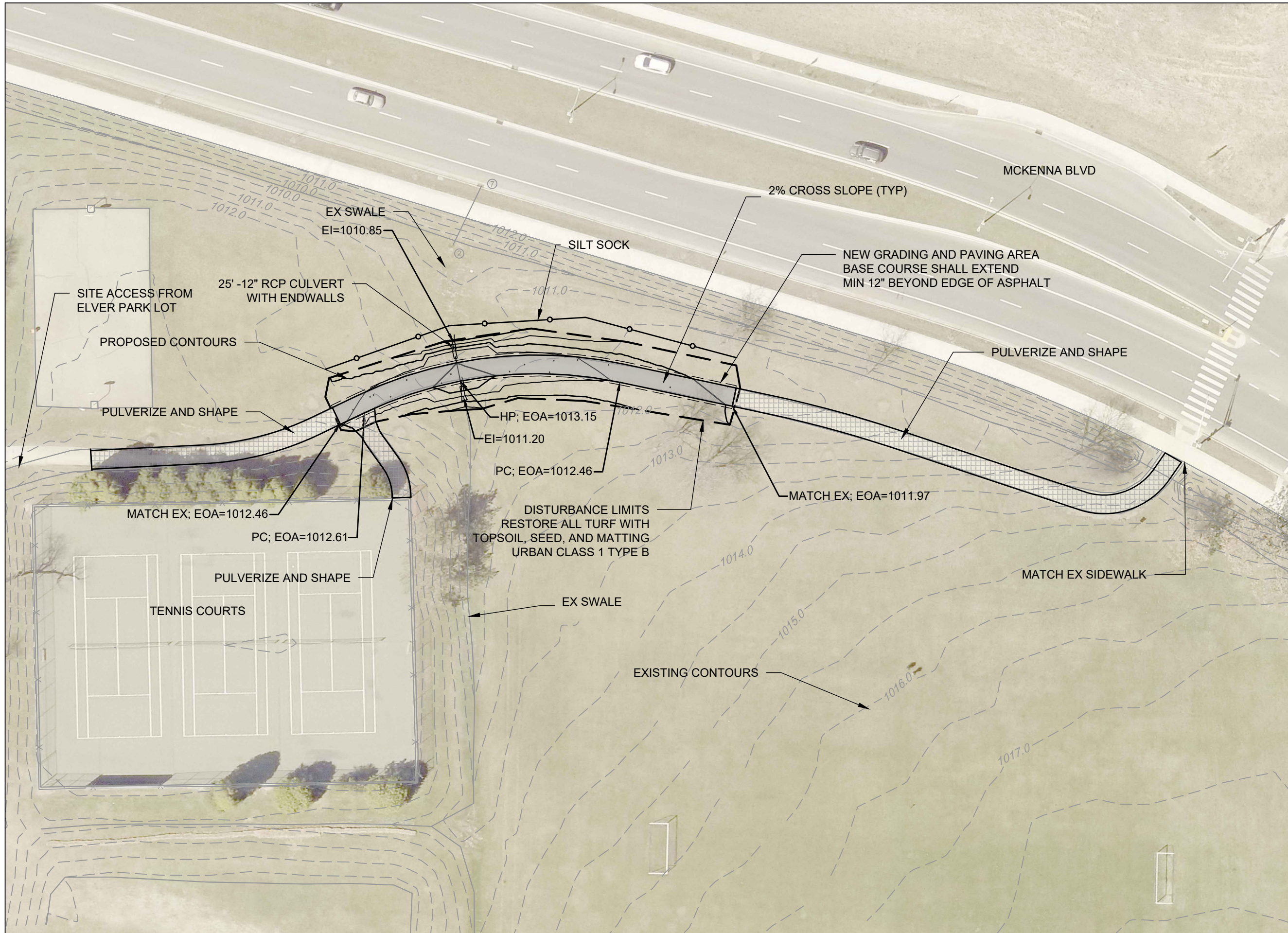
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE

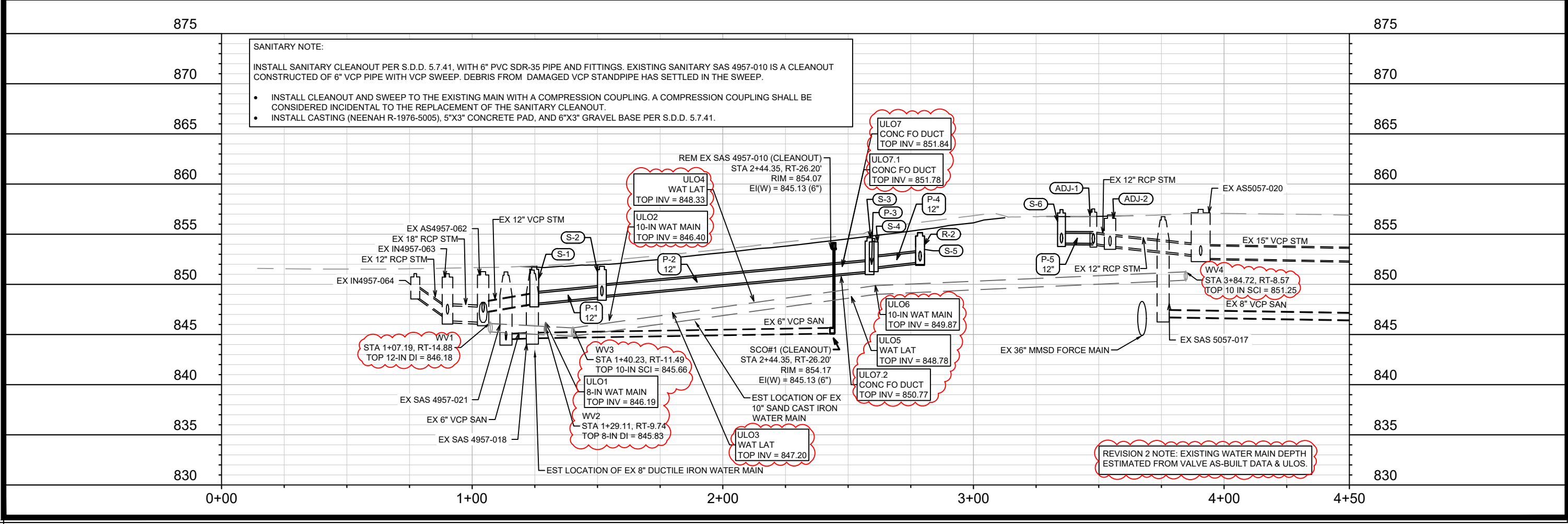
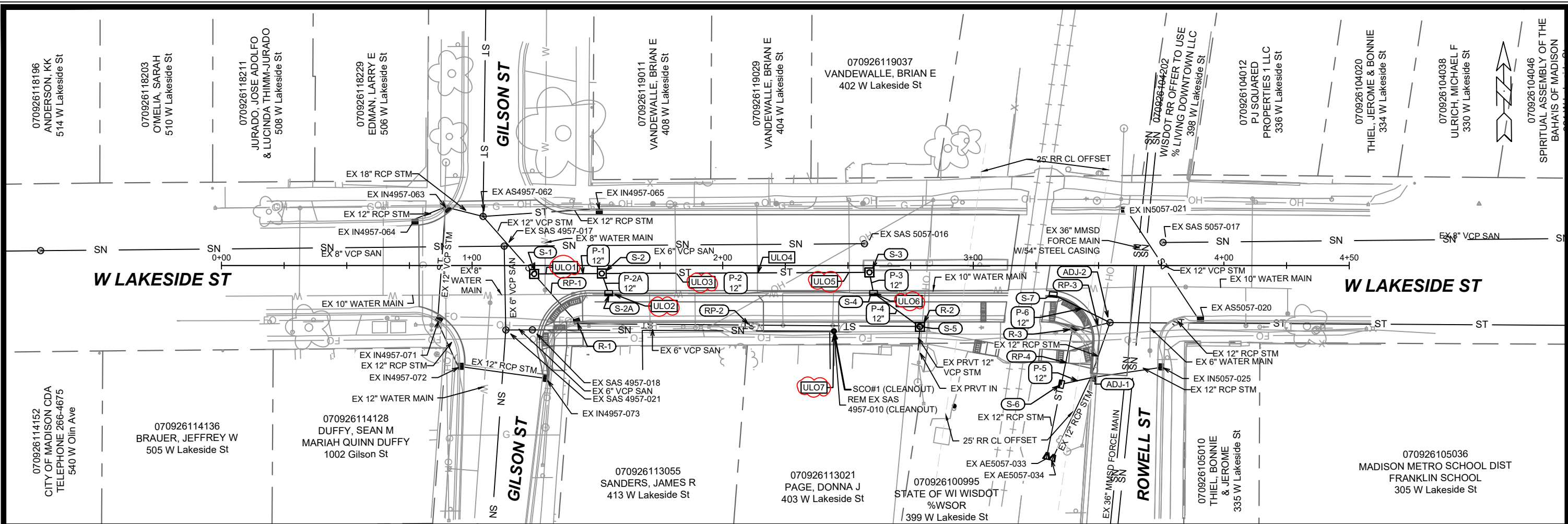
PUBLIC WORKS PROJECT #:  
 14336

SHEET TITLE:  
**GRADING AND PAVING**

SHEET NUMBER:  
**P-3A**







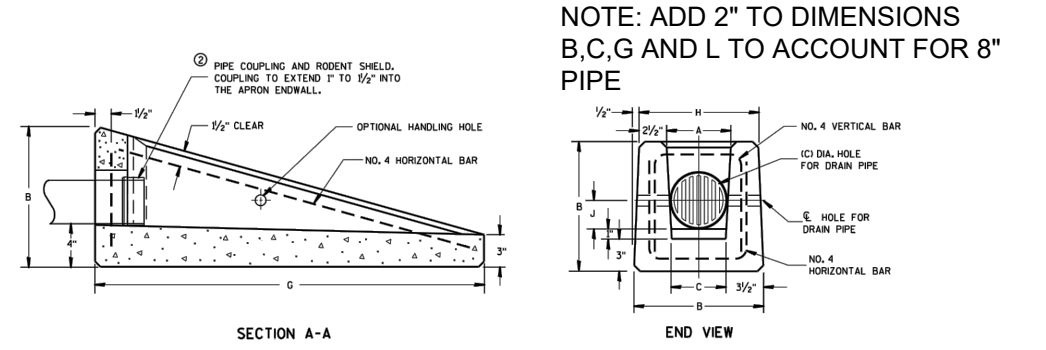
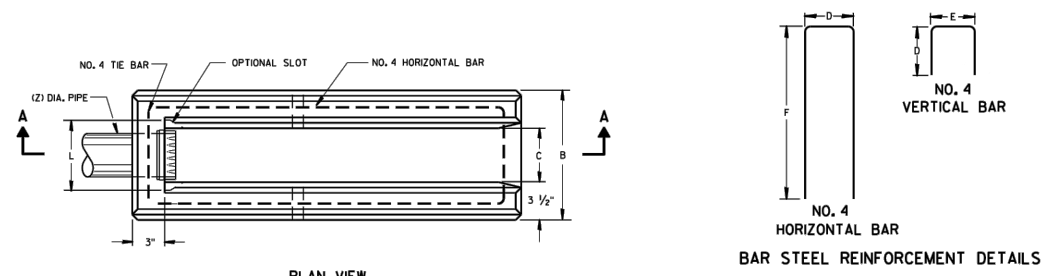
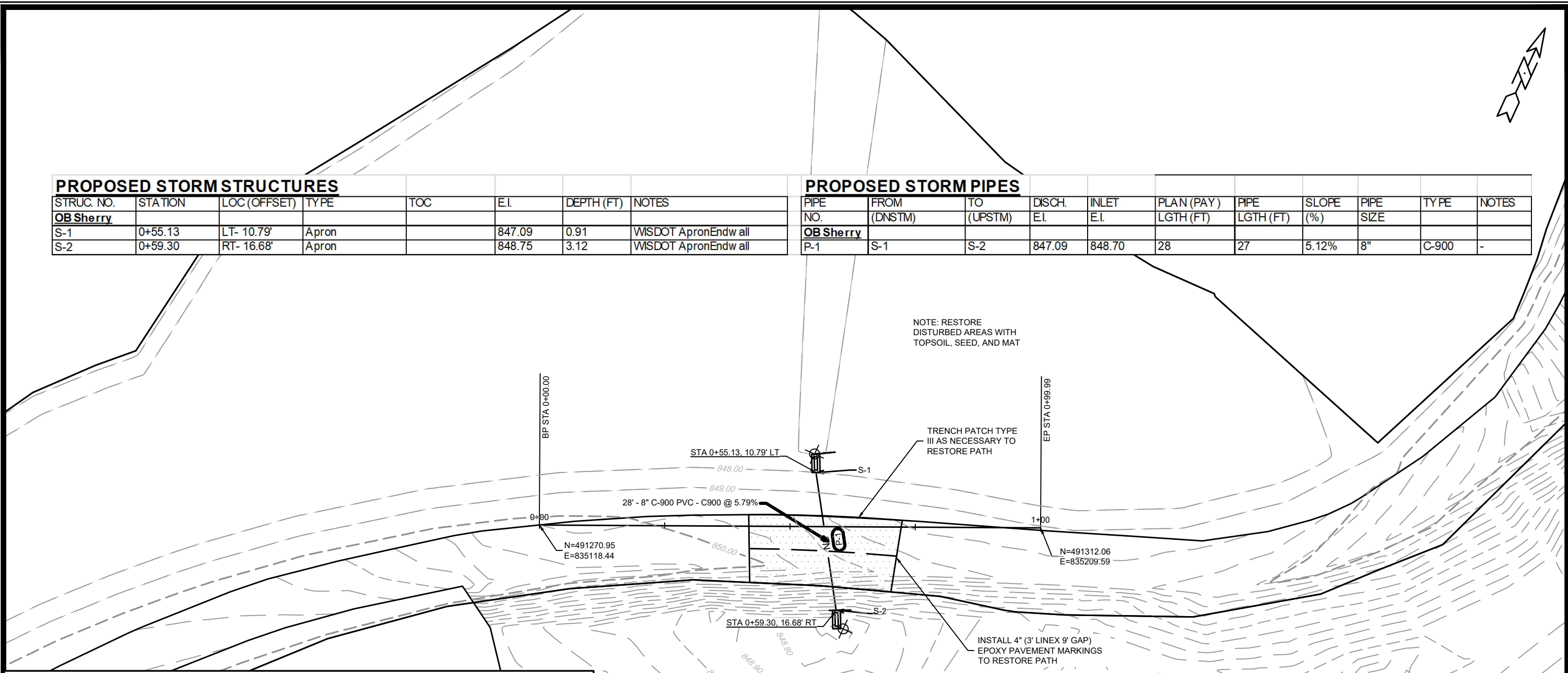
14336	Madison, WI	8696
SEWER PLAN AND PROFILE - W LAKESIDE ST		
BIKEWAYS 2023		
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14336	U-1	

**PROPOSED STORM STRUCTURES**

STRUC. NO.	STATION	LOC (OFFSET)	TYPE	TOC	E.I.	DEPTH (FT)	NOTES
<b>OB Sherry</b>							
S-1	0+55.13	LT- 10.79'	Apron		847.09	0.91	WISDOT ApronEndw all
S-2	0+59.30	RT- 16.68'	Apron		848.75	3.12	WISDOT ApronEndw all

**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
<b>OB Sherry</b>										
P-1	S-1	S-2	847.09	848.70	28	27	5.12%	8"	C-900	-



SDD 8F6 REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

NO.	DATE	BY

REVISION

Designed By: PDG Date: 01/08/2024

Scale: 20:1

14336

U-2

14336

MADISON, WI

8696

CONTRACT NO:

OB SHERRY DRAIN

BIKEWAYS 2023

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14336

U-2



# STORM & SANITARY SEWER SCHEDULE

\* REVISION 2 - 7/11/2024 DAO

BIKEWAYS 2023	SHEET NO.	U-STM
PROJECT NO. 14336	U-STM	
STORM SEWER SCHEDULE		
W LAKESIDE ST	CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOC (OFFSET)	TYPE	TOC	E.I.	DEPTH (FT)	NOTES
<b>W LAKESIDE ST</b>							
S-1	1+24.75	RT-3.34	3X3 STORM SAS	851.84	848.09	3.75	W/R-1550-0054
S-2	1+51.76	RT-3.19	3X3 STORM SAS	851.87	848.75	3.12	FP; W/R-1550-0054
S-2A	1+54.51	RT-11.04	H INLET	851.84	849.34	2.50	FP; W/R-3067-7004-V; [1]
S-3	2+58.54	RT-2.73	3X3 STORM SAS	854.64	851.31	3.33	W/R-1550-0054
S-4	2+60.20	RT-11.00	H INLET	854.56	851.60	2.96	FP; W/R-3067-7004-V; [1]
S-5	2+78.70	RT-24.51	3X3 STORM SAS	855.12	852.23	2.89	FP; W/R-1550-0054; [2]
S-6	3+35.13	RT-47.37	H INLET	857.45	854.11	3.34	W/R-1878-A10G; [3]
S-7	3+31.87	RT-11.58	H INLET	857.16	853.95	3.21	LP; FP; W/R-3067-7004-VB

## 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
<b>W LAKESIDE ST</b>										
P-1	S-1	S-2	848.09	848.75	27	24	2.75%	12"	RCP	-
P-2A	S-2	S-2A	848.85	849.34	8	6	8.55%	12"	RCP	-
P-2	S-2	S-3	848.85	851.31	107	104	2.37%	12"	RCP	-
P-3	S-3	S-4	851.41	851.60	8	6	3.22%	12"	RCP	-
P-4	S-4	S-5	851.70	852.23	23	19	2.77%	12"	RCP	-
P-5	ADJ-1	S-6	854.09	854.11	13	12	0.17%	12"	RCP	-
P-6	ADJ-2	S-8	853.83	853.95	25	24	0.51%	12"	RCP	-

## STORM STRUCTURE ADJUSTMENTS

STRUC. NO.	ID NO.	STATION	LOC (OFFSET)	EX TOC	PROP TOC	ADJ (FT)	NOTES
<b>W LAKESIDE ST</b>							
ADJ-1	IN5047-026	3+47.85	RT-44.79	857.53	857.53	0.00	[4]
ADJ-2	AS5057-027	3+54.51	RT-22.76	856.92	856.92	0.00	[5]

## STORM PIPE REMOVALS & ABANDONMENTS

PIPE REM NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	ABN LGTH (FT)	SLURRY (CY)	PIPE SIZE	PIPE TYPE	NOTES
<b>W LAKESIDE ST</b>										
RP-1	S-1	R-1	26	Y	26	0	0.0	12"	VCP	-
RP-2	R-1	R-2	137	Y	137	0	0.0	12"	VCP	-
RP-3	ADJ-2	R-3	15	Y	15	0	0.0	12"	RCP	-
RP-4	R-3	S-6	22	Y	22	0	0.0	12"	RCP	-

## STORM STRUCTURE REMOVALS & ABANDONMENTS

STRUC. NO.	ID NO.	STATION	LOC (OFFSET)	TYPE	DEPTH (FT)	NOTES
<b>W LAKESIDE ST</b>						
R-1	IN4957-031	1+41.58	RT-22.27	H INLET	3.07	-
R-2	AS5057-024	2+78.71	RT-24.31	3X3 STM SAS	2.85	-
R-3	IN5057-028	3+39.87	RT-25.42	H INLET	3.63	-

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOC (OFFSET)	TOC	E.I.	DEPTH (FT)	NOTES
<b>W LAKESIDE ST</b>						
SCO#1	2+44.35	RT-26.20	854.15	845.13	9.02	[6]

## SANITARY STRUCTURE REMOVALS

STRUC ID NO.	STATION	LOC (OFFSET)	TOC	E.I.	DEPTH(FT)	NOTES
<b>W LAKESIDE ST</b>						
SAS 4957-010	2+44.35	RT-26.20	854.07	845.13	8.94	[7]

## ULO SCHEDULE

ID NO.	STATION (OFFSET)	LOCATION (OFFSET)	TYPE	NOTES
<b>W LAKESIDE ST</b>				
* ULO1	1+29.13	RT-3.43	8" WAT	TOP @ 846.19, NO CONFLICT
* ULO2	1+56.52	RT-11.40	10" WAT	TOP @ 846.40, NO CONFLICT
* ULO3	1+81.34	RT-3.06	WAT LAT	TOP @ 847.20, NO CONFLICT
* ULO4	2+13.82	RT-3.13	WAT LAT	TOP @ 848.33, NO CONFLICT
* ULO5	2+50.54	RT-2.77	WAT LAT	TOP @ 848.78, NO CONFLICT
* ULO6	2+60.21	RT-11.00	10" WAT	TOP @ 849.87, NO CONFLICT
* ULO7	2+44.36	RT-27.55	FO	CONC DUCT, TOP @ 851.84, BOT @ 850.77, NO CONFLICT

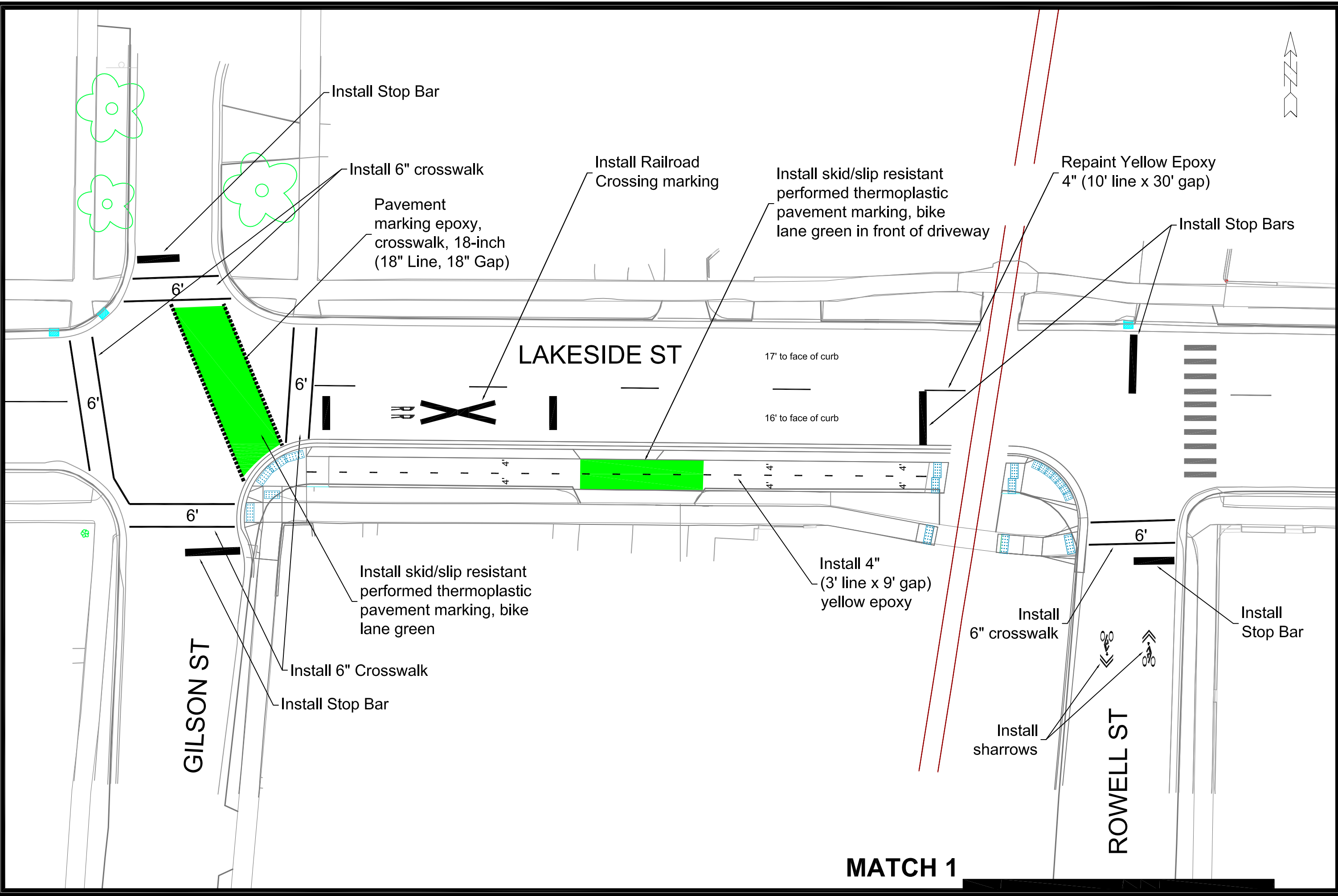
## SPECIFIC NOTES:

- [1] CASTING LOCATED AT MODIFIED TYPE B CURB; CURB OPENING LOWERED 2" (11" CASTING HEIGHT)
- [2] RECONNECT EX 12" ON SOUTH SIDE; KEEP PRIVATE STORM ACTIVE
- [3] RECONNECT EX 12" RCP STM; KEEP AE5057-033 ACTIVE
- [4] TAP (T-5) NEW 12" RCP TO WEST SIDE OF EX INLET
- [5] TAP (T-7) NEW 12" RCP TO WEST SIDE OF EX STM SAS
- [6] INSTALL SANITARY CLEANOUT PER S.D.D. 5.7.41. COMPRESSION COUPLING SHALL BE INCIDENTAL TO THE COST OF THE CLEANOUT. REPLACEMENT OF VERTICAL PIPE & CASTING ARE REQUIRED. SEE ALSO NOTE 7
- [7] EX SANITARY CLEANOUT CONSTRUCTED OF 6" VCP WITH VCP SWEEP. TV SHOWS DEBRIS, LIKELY FROM DAMAGED VERTICAL PIPE. REMOVE CASTING, VERTICAL CLEANOUT STANDPIPE & SWEEP, THEN REPLACE WITH NEW SWEEP & PVC STANDPIPE.

## STANDARD NOTES:

- PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.



MARK	REVISION	DATE	BY
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###

Designed By: #####

Date: 1/11/2024 10:20 AM

Scale: Custom


###

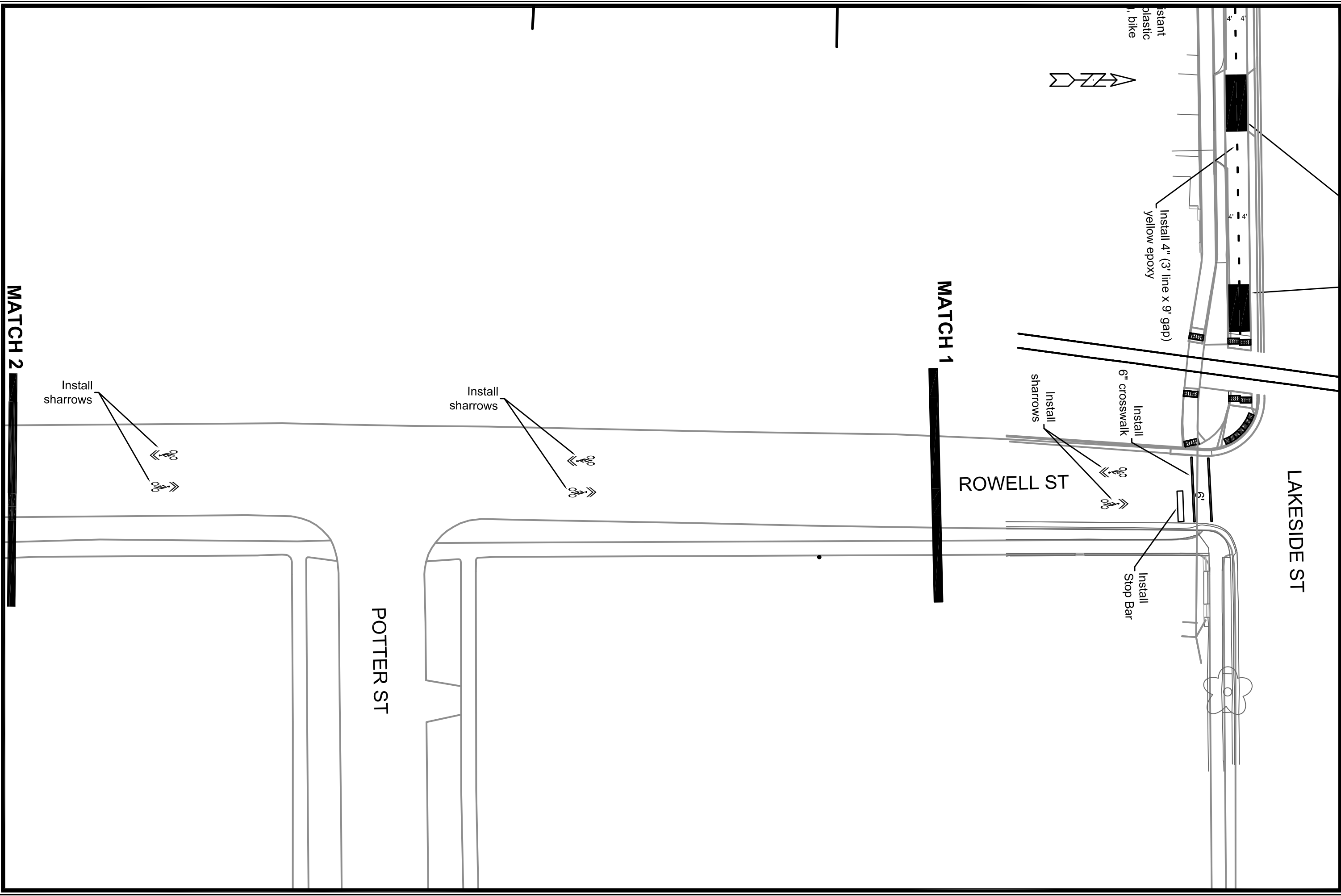
**LAKESIDE ST BIKE PATH**

**BIKEWAYS 2024**

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**CONTRACT NO:**

 **14336**  
**M-1**



MARK	###	DESIGNED BY	###
REVISION	###	DATE	###
DATE	###	BY	###
REVISION	###	DATE	###
DESIGNED BY	###	DATE	###
DATE	###	BY	###
REVISION	###	DATE	###
DATE	###	BY	###
REVISION	###	DATE	###
DATE	###	BY	###


**14336**  
**M-2**

**LAKESIDE ST BIKE PATH**  
**BIKEWAYS 2024**  
 M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_WI\LakesideSt\_AH.dwg

**CONTRACT NO:**

Scales: 1:30

MATCH 2

MATCH 1

POTTER ST

ROWELL ST

LAKESIDE ST

Start  
plastic  
bike

Install 4" (3' line x 9' gap)  
yellow epoxy

Install  
6" crosswalk

Install  
Stop Bar

Install  
sharrows

Install  
sharrows

Install  
sharrows



MATCH 2

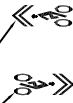
Install  
sharrows

ROWELL ST

Install  
sharrows



Install  
sharrows



VAN DEUSEN ST

Install  
sharrows



MATCH 3



###	###	###	###	###	###
###	###	###	###	###	###
###	###	###	###	###	###
###	###	###	###	###	###
MARK	REVISION	DATE	DATE	BY	###
Designed By:	Date: 1/9/2024 8:25 AM	Scale:	Custom		###
###	###	###	###	###	###

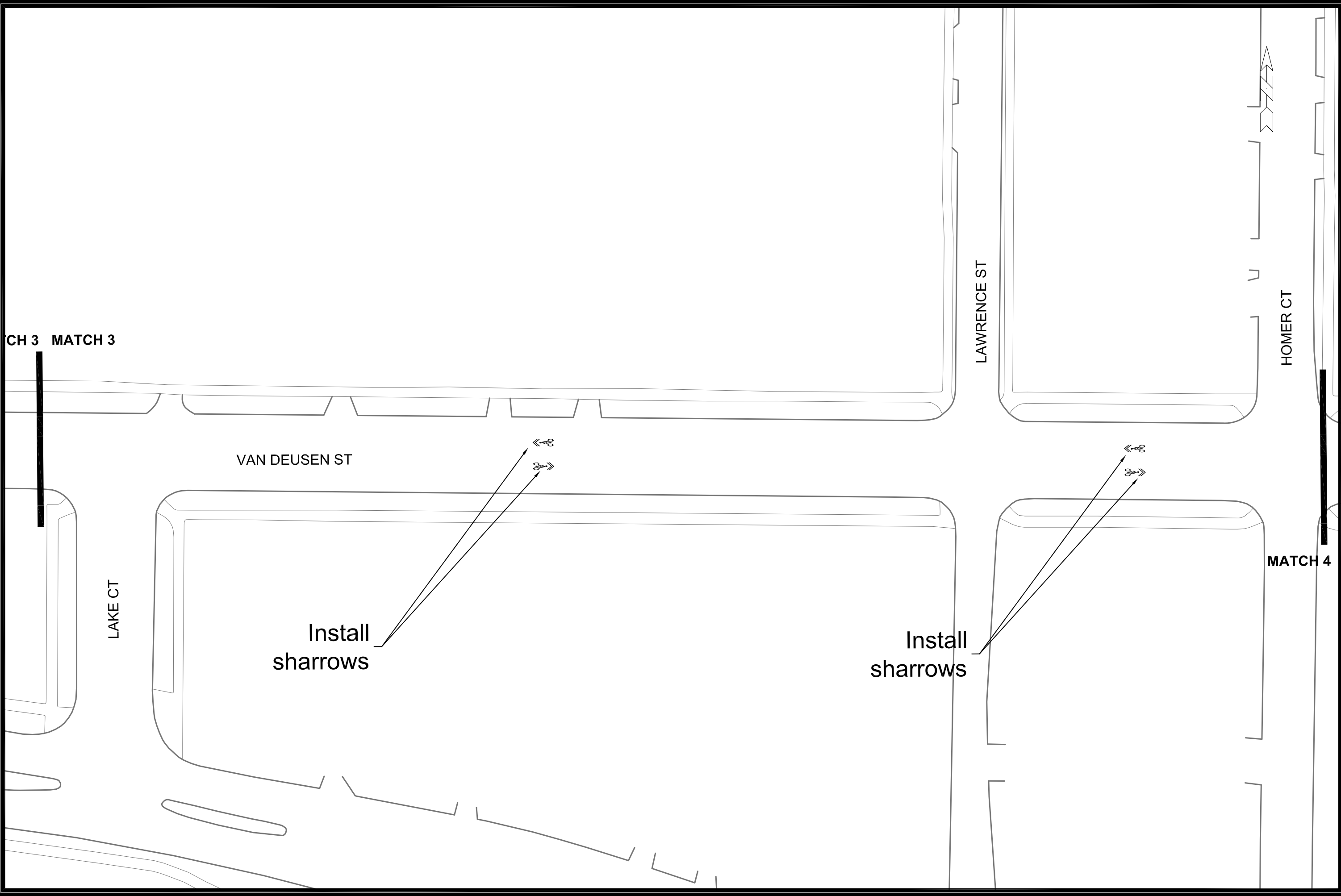
LAKESIDE ST BIKE PATH  
 BIKEWAYS 2024  
 M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_W\LakesideSt\_LAH.dwg

CONTRACT NO:



14336

M-3



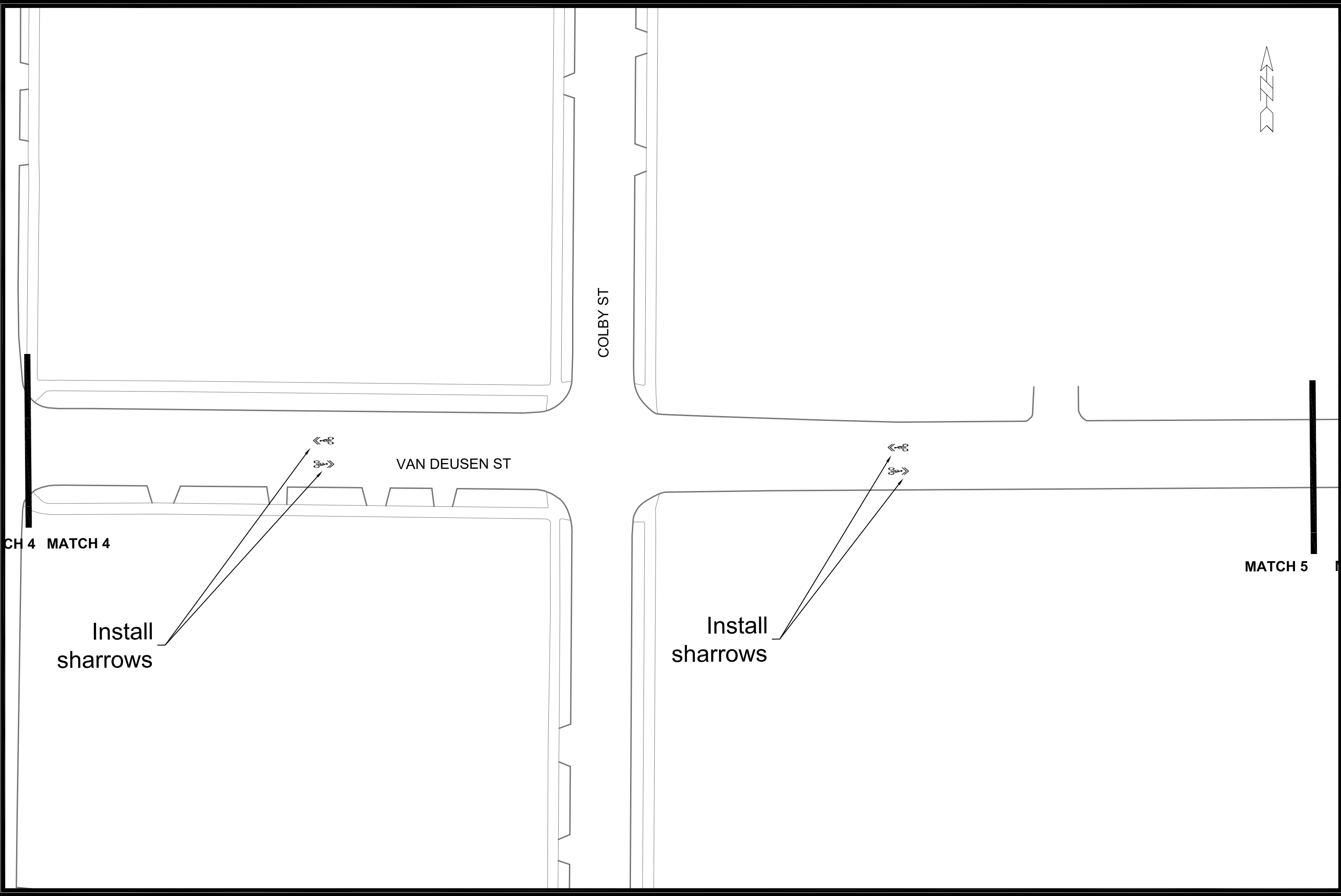
MARK	REVISION	DATE	BY
###	###	###	###
###	###	###	###
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###	###	###	###
###	###	###	###

Designated By: ###  
 Date: 1/9/2024 8:26 AM  
 Scale: 1" = 40'  
 ###

LAKESIDE ST BIKE PATH  
 BIKEWAYS 2024  
 M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_W\LakesideSt\_LAH.dwg  
 CONTRACT NO:



14336  
 M-4



###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
MARK	REVISION	DATE	BY
Designed By:	Date: 1/9/2024 8:27 AM	Scale:	Custom
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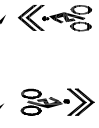
LAKESIDE ST BIKE PATH  
 BIKEWAYS 2024  
 M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_W\LakesideSt\_LAH.dwg  
 CONTRACT NO:



14336  
 M-5

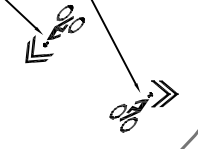
H 5 MATCH 5

Install sharrows



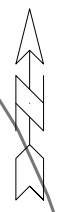
VAN DEUSEN ST

Install Bike Right Arrow Sharrow  
Install Sharrow



WINGRA CREEK BIKE PATH

SAYLE ST



MARK	REVISION	DATE	BY
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###
###	###	###	###

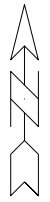
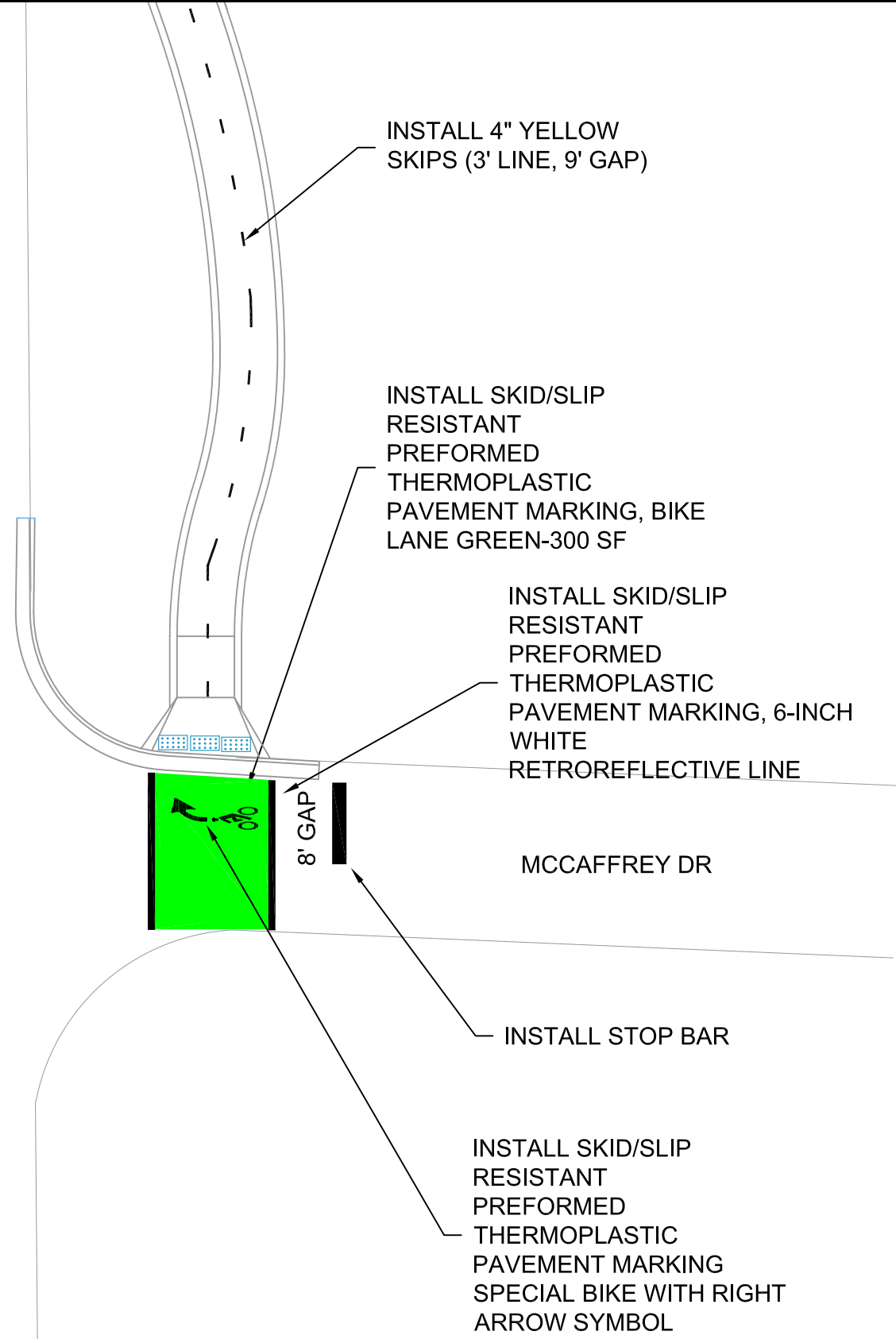
Designed By: \_\_\_\_\_ Date: 1/10/2024 9:35 AM  
 Scales: Custom  
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LAKESIDE ST BIKE PATH  
 BIKEWAYS 2024  
 M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_W\LakesideSt\_AH.dwg  
 CONTRACT NO:



14336  
M-6

SEMINOLE HWY



14336  
M-7

ARBORETUM BIKE PATH  
BIKEWAYS 2024

M:\DESIGN\Projects\14336\CAD\Traffic\14336EN-Street\_LUW\ArbEntrPath\_Ali pvm.dwg

CONTRACT NO:

MARK	###	REVISION	###	DATE	###
Designed By:	###	Date:	1/9/2024 10:23 AM	Scale:	Custom
By	###	###	###	###	###









