

# CITY OF MADISON

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

#### **INDEX OF SHEETS**

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CITY MAINTENANCE PLAN NOT REQUIRED

**REVISION:** 

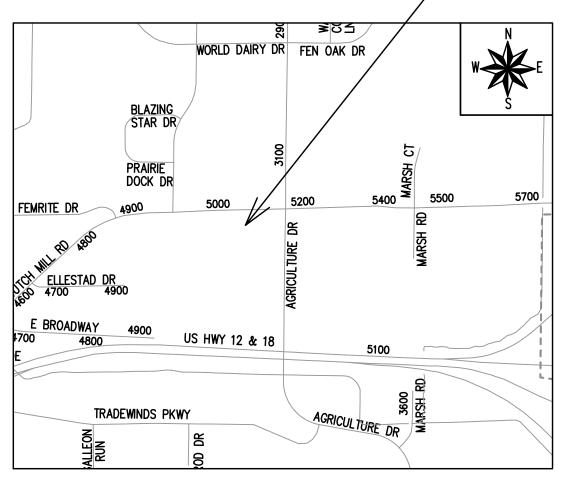
REV #1: U-1 & U-2 UPDATED, ULO DATA ADDED

EASEMENT STORM SEWER

# 3322 AGRICULTURE DRIVE CSM

CITY PROJECT NO. 15536 CONTRACT NO. 9620

PROJECT LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE FEBRUARY 11, 2025

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Alll

05/20/2025

City Engineer

\_\_\_\_

Date

STREET DESIGNED BY:



05/20/2025

STORM SHEETS U-1 AND U-2 DESIGNED BY:



05/20/2025

STORM SHEET U-3 DESIGNED BY:



Expires: 07-31-2026 05/20/2025

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DATE: 5/15/2025 9:23 AM

ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY CITY FORESTRY BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRE APPROVAL AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS AND CITY FORESTRY WILL REQUIRE A MINIMUM OF A 72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHO'S DISTRICT IS AFFECTED BY THE STREET TREE REMOVAL(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED.

AS DEFINED BY THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE TRUNK OF THE STREET TREE OR WHEN CUTTING ROOTS OVER 3 INCHES IN DIAMETER. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY (266-4816) PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.

CONTACT PROJECT ENGINEER AND STREET DESIGNER NICK JAECKELS AT NJAECKELS@CITYOFMADISON.COM FOR CAD AND ALIGNMENT DATA PRIOR TO STAKING.

CONTACT THE CITY CONSTRUCTION ENGINEER, KYLE FRANK, AT KFRANK@CITYOFMADISON.COM FOR PRECONSTRUCTION SCHEDULING, COORDINATION, AND INSPECTION.

CONVENTIONA.	L SIGNS
FIELD VERIFY ALL UTIL	ITY LOCATIONS
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	SAN
WATER	—— w ——
BURIED ELECTRIC	— Е —
OVERHEAD ELECTRIC	——— OH———
POWER POLE	$\Box$
ADA COMPLIANT RAMP	W/ [;;;;;
DETECTABLE WARNING	FIELD
COMBUSTIBLE FLUIDS	-CAPTAGE -

UNDERDRAINS SHALL BE INSTALLED PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADE OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL TYPICALLY BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.04. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENTS FROM THE CITY PROJECT ENGINEER PRIOR TO STAKING THIS PROJECT. THE CITY PROJECT ENGINEER IS NICK JAECKELS. EMAIL: NJAECKELS@CITYOFMADISON.COM

CURB STATION AND OFFSETS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE INDICATED ON THE PLANS.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS RIGHT-OF-WAY PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO S.D.D 3.05.

ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION.

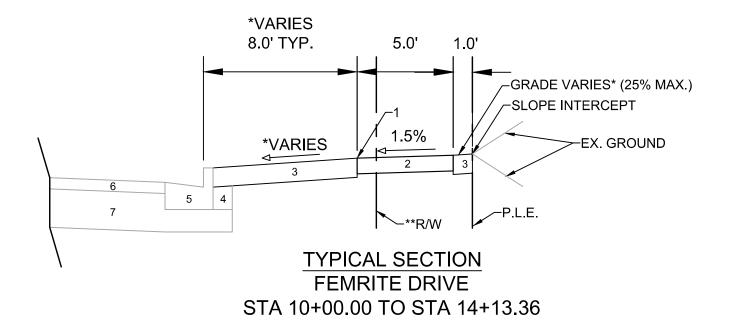
ALL PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY ARE BASED ON SURVEY DATA PROVIDED BY THE DEVELOPER OR ITS CONSULTANT. IN THE CASE THAT THE PROPOSED IMPROVEMENTS CAN NOT BE INSTALLED PER THESE PLANS OR THE CITY OF MADISON STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE COST OF EXTRA WORK DUE TO INACCURACIES OF THE SURVEY.

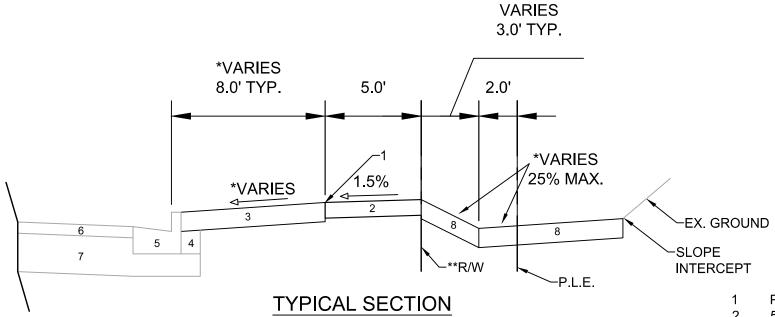
ALL UTILITY VERIFICATIONS AND ACCURACY OF THE DRAWINGS ARE THE RESPONSIBILITY OF THE DEVELOPER. ANY CONFLICTS THAT ARISE FROM MISSING OR ERRONEOUS INFORMATION WILL BE AT THE EXPENSE OF THE DEVELOPER. NO PRECAST STRUCTURES WILL BE APPROVED FOR STORM OR SANITARY SEWER UNTIL ALL POTENTIAL UTILITY CONFLICTS ARE RESOLVED.

IN LOCATIONS WHERE PAVEMENT RESTORATION IS NOT IDENTIFIED ADJACENT TO CURB AND GUTTER REPLACEMENT, IT IS ASSUMED THAT CURB AND GUTTER WILL BE REPLACED WITHOUT DAMAGING ADJACENT PAVEMENT. IF DAMAGED, THE MILL AND OVERLAY LIMITS SHALL BE EXTENDED BY THE CITY CONSTRUCTION ENGINEER AS NECESSARY TO MEET THE STANDARD PATCHING CRITERIA.

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F M	AGRICH TURE DRIVE CSM	MADISON WI			
ADI			MARK	REVISION	
32		0690	Designed By: NLJ	Date: 5/15/2025 2:05 PM	Scale:
	$\mathbf{s}$	2020	15536		







STA 14+13.36 TO STA 17+44.65

#### SPECIAL NOTES:

\*SEE X-SHEETS FOR CROSS SLOPES \*\*SEE P-SHEETS FOR R/W LOCATION

POINT REFERRED TO ON PROFILE **5" CONCRETE SIDEWALK** FEMRITE DRIVE

6" TOPSOIL, SEED AND MATTING

EX. FILL

EX. CURB TYPE 'A' TO REMAIN

EX. PAVEMENT TO REMAIN

EX. ROAD BASE COURSE TO REMAIN

3322 AGRICULTURE DRIVE CSM

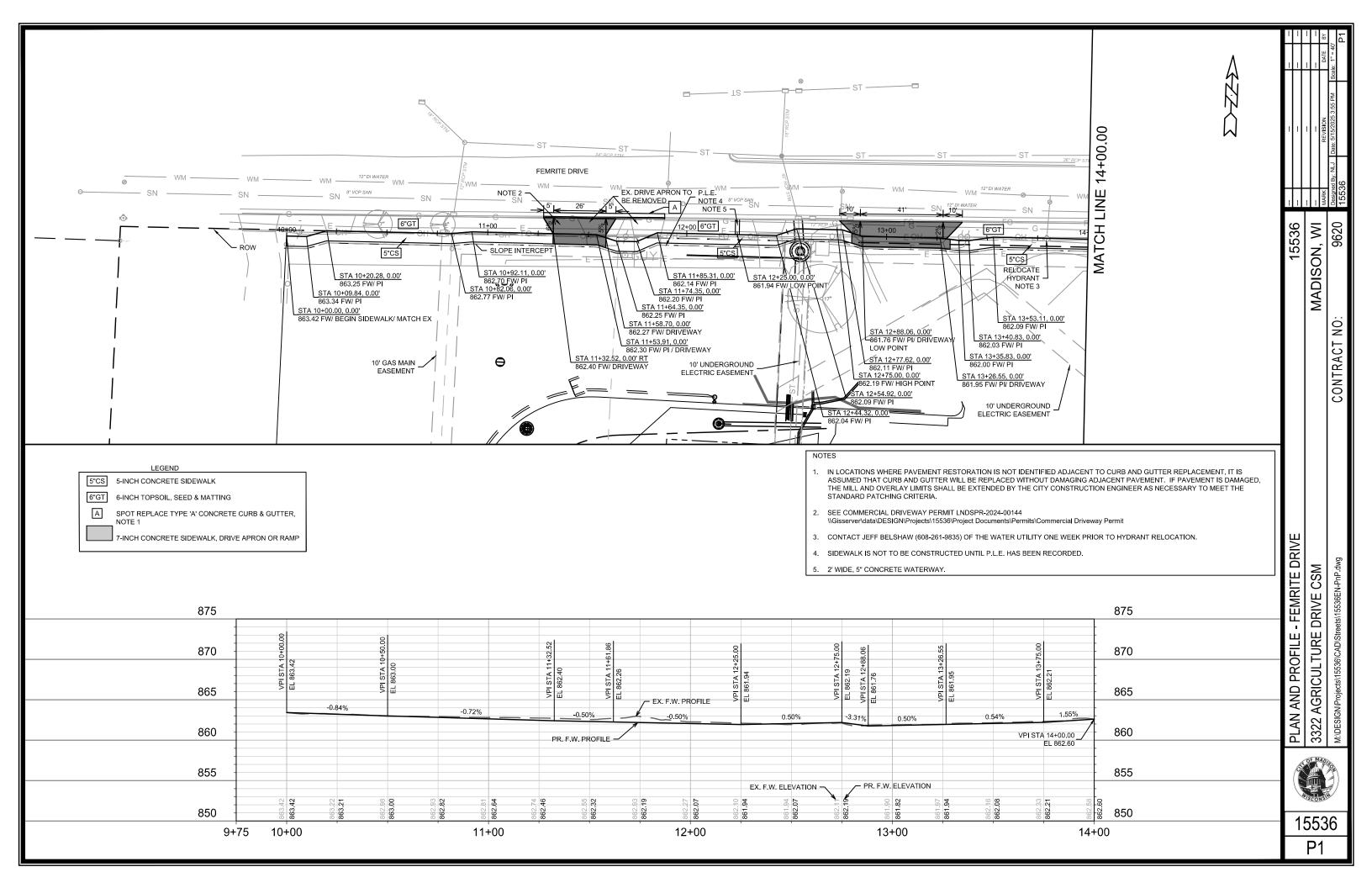
TYPICAL SECTIONS

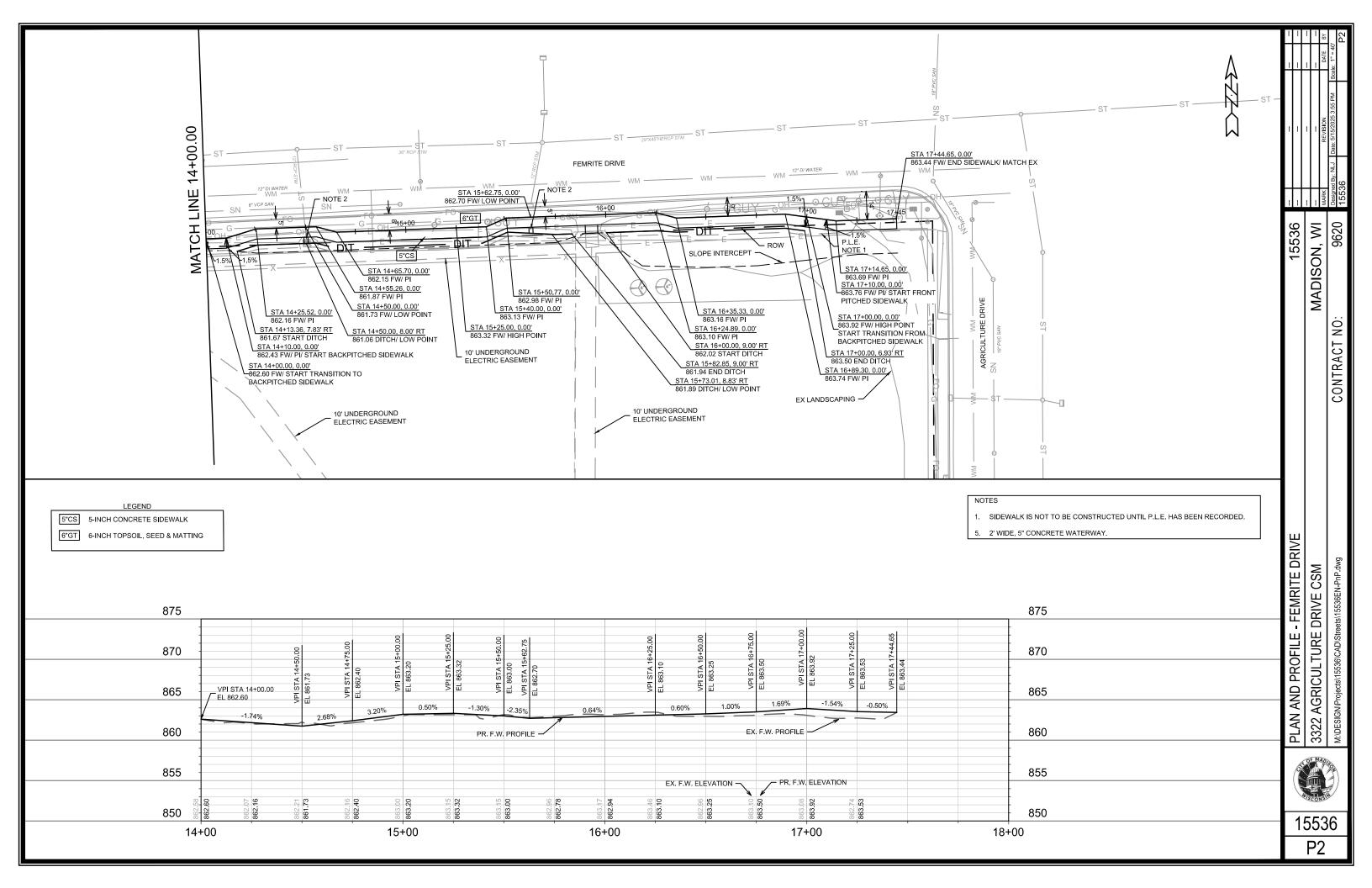
MADISON, WI

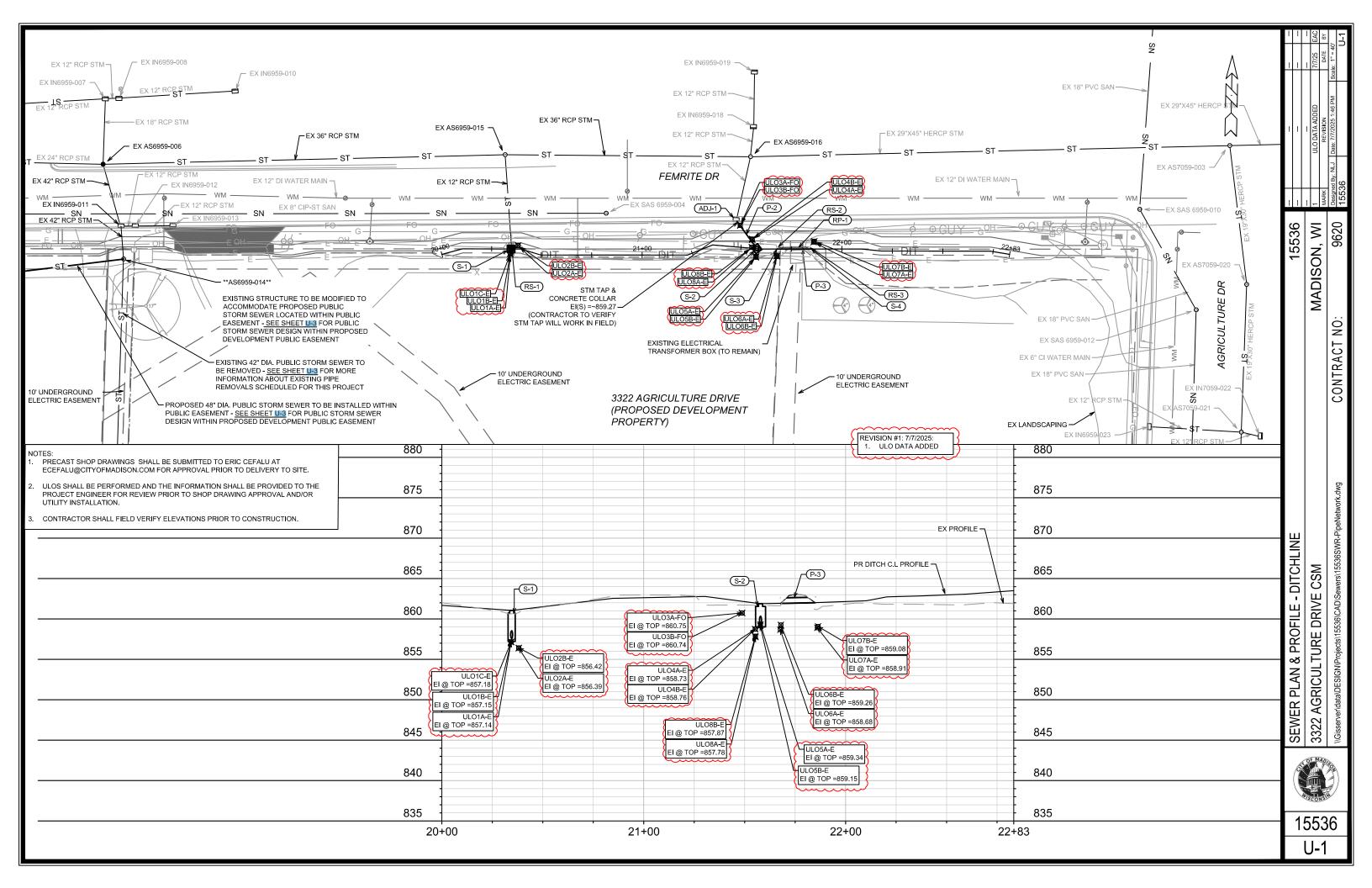
15536

6" TOPSOIL, SEED, AND EROSION MAT CLASS II

15536 D2







# STORM SEWER SCHEDULE

**REVISION 1 - 7/7/2025 EAC** 3322 AGRICULTURE DRIVE SHEET NO. PROJECT NO. 15536 U-2 STORM SEWER SCHEDULE

SLOPE PIPE TYPE

SIZE

12"

SLURRY PIPE PIPE

SIZE

8"

TYPE II

(%)

0.47%

DISCH. INLET PLAN (PAY) PIPE

E.I.

859.27 859.36 17

861.94 862.02 17

PAID

(Y/N)

Ν

LGTH (FT) LGTH (FT)

REM LGTH ABN LGTH

PAID (FT) (FT)

CITY OF MADISON

U-2

NOTES

NCM

[3]; [4]; [5]

**NOTES** 

[6]

Ņ

PROP	OSED ST	ORM ST	RUCTURES				
STRUC. NO.	STATION	LOCATION (OFFSET)	I TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
FEMRITE	DRIVE (DITCH	I CENTERLI	NE)				
S-1	20+34.57	CL	3'X3' STORM SAS	861.06	857.55	3.51	[1]; LP; R-1878-B7G
S-2	21+57.84	CL	3'X3' STORM SAS	861.89	859.36	2.53	LP; FP; R-1878-B7G
S-3	21+67.84	CL	[2]; PIPE END	_	861.94	=	[3]; [4]; [5]
S-4	21+84.85	CL	[2]; PIPE END	-	862.02	-	[3]; [4]; [5]
STOR	M STRUC	TURE R	EMOVALS &	ABANDONMEI	NTS		
STRUC.	ID NO.	STATION	LOCATION	TYPE	DEPTH	NOTES	
NO.			(OFFSET)		(FT)		
FEMRITE	FEMRITE DRIVE (DITCH CENTER) INF)						

3'X3' STORM SAS 3.10

<b>FEMRIT</b>	E DRIVE	(DITCH	CENTERL	NE)
DC 1	INIGOS	Q 017	20+34 90	$I T \cap$

RS-2	UNMARKED 21+68.11	LT-0.80	12" CMP END	-	[6]
RS-3	UNMARKED 21+84 03	LT-0.86	12" CMP END	_	[6]

#### STORM STRUCTURE ADJUSTMENTS

STRUC.	ID NO.	STATION	LOCATION	EX TOC	PROP	ADJ	NOTES
NO.			(OFFSET)		TOC	(FT)	

#### **FEMRITE DRIVE (DITCH CENTERLINE)**

IN6959-020 21+46.44 LT-13.44 863 29 [7]

# STORM ULO SCHEDULE

**FEMRITE DRIVE (DITCH CENTERLINE)** 

PROPOSED STORM PIPES **FROM** 

(DNSTM)

**FEMRITE DRIVE (DITCH CENTERLINE)** 

ADJ-1

P-2

P-3

REMOVAL NO. FROM

TO

(UPSTM)

STORM PIPE REMOVALS & ABANDONMENTS REMOVE

E.I.

LGTH

16

LOCATION TYPE NOTES

(OFFSET) (OFFSET)

• ULO2B-E	2
<ul><li>ULO3A-FO</li></ul>	2
<ul><li>ULO3B-FO</li></ul>	2
• ULO4A <del>-</del> E	2
• ULO4B <del>-</del> E	2
• ULO5A <del>-</del> E	2
• ULO5B-E	2
<ul><li>ULO6A-E</li></ul>	2

### **SPECIFIC NOTES:**

- [1] RECONNECT EX 12" RCP STM TO S-1
- [2] 8" AWWA-C900 PVC PIPE (BLUE BRUTE OR EQUIVLAENT)
- [3] MATCH PIPE ELTO DRAINAGE DITCH ELEVATION AT STRUCTURE LOCATION
- [4] CUT PIPE ENDS TO MATCH GRADE AT STRUCTURE LOCATION
- [5] \*\*USE CAUTION DURING INSTALLATION NEAR ELECTRICAL TRANSFORMER\*\*
- [6] 12" CMP PIPE RUNNING BENEATH RAISED SECTION FOR ELECTRICAL TRANSFORMER ACCESS TO MAINTAIN DITCH FLOW, NOT MARKED IN CITY RECORDS
- [7] STM TAP & CONCRETE COLLAR AT ADJ-1 FOR P-2 INSTALL, CONTRACTOR TO VERIFY TAP WILL WORK IN FIELD
- [8] USE CAUTION DURING S-1 INSTALL, CONDUIT ALIGNMENT APPEARS TO BE SOUTH OF STRUCTURE LOCATION HOWEVER CONDUIT ALSO APPEARS TO BE LESS THAN 0.5' FROM STRUCTURE BOTTOM
- [9] USE CAUTION DURING P-2 INSTALL, LESS THAN 0.5' FROM TOP OF P-2 PIPE (12" PVC) TO BOTTOM OF CONDUIT (2" PVC), COORDINATE WITH PRIVATE UTILITY IF RELOCATION IS REQUIRED FOR P-2 INSTALLATION
- [10] USE CAUTION DURING S-2 INSTALL, CONDUIT ALIGNMENT APPEARS TO BE SOUTH OF STRUCTURE LOCATION HOWEVER CONDUIT ALSO APPEARS TO BE LESS THAN 0.5' FROM STRUCTURE BOTTOM,
- FIELD POUR STRUCTURE TO AVOID CONFLICTS AS NEEDED AND/OR COORDINATE WITH PRIVATE UTILITY IF RELOCATION IS REQUIRED FOR S-2 INSTALLATION

#### 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
- 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.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS UNLESS NOTED OTHERWISE.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.

FEMRITE DRI	VE (DITCH CEI	NTERLINE)	
<ul><li>ULO1A-E</li></ul>	20+34.27	RT-2.46	[8]; 2" PVC ELECTRIC, TOP @ 857.14', NO CONFLICT EXPECTED
<ul><li>ULO1B-E</li></ul>	20+34.26	RT-2.33	[8]; 2" PVC ELECTRIC, TOP @ 857.15', NO CONFLICT EXPECTED
<ul><li>ULO1C-E</li></ul>	20+34.29	RT-2.18	[8]; 2" PVC ELECTRIC, TOP @ 857.18', NO CONFLICT EXPECTED
<ul><li>ULO2A-E</li></ul>	20+38.06	LT-1.63	2" PVC ELECTRIC, TOP @ 856.39', NO CONFLICT EXPECTED
<ul><li>ULO2B-E</li></ul>	20+38.12	LT-1.73	2" PVC ELECTRIC, TOP @ 856.42', NO CONFLICT EXPECTED
<ul><li>ULO3A-FO</li></ul>	21+48.70	LT-10.87	[9]; 2" PVC FIBER OPTIC, TOP @ 860.75', NO CONFLICT EXPECTED
<ul><li>ULO3B-FO</li></ul>	21+48.71	LT-10.73	[9]; 2" PVC FIBER OPTIC, TOP @ 860.74', NO CONFLICT EXPECTED
<ul><li>ULO4A-E</li></ul>	21+55.21	LT-4.28	5" PVC ELECTRIC, TOP @ 858.73', NO CONFLICT EXPECTED
<ul><li>ULO4B-E</li></ul>	21+55.17	LT-4.60	5" PVC ELECTRIC, TOP @ 858.76', NO CONFLICT EXPECTED
<ul><li>ULO5A-E</li></ul>	21+57.79	RT-3.85	[10]; 5" PVC ELECTRIC, TOP @ 859.34', NO CONFLICT EXPECTED
<ul><li>ULO5B-E</li></ul>	21+57.72	RT-4.27	[10]; 2" PVC ELECTRIC, TOP @ 859.15', NO CONFLICT EXPECTED
<ul><li>ULO6A-E</li></ul>	21+67.65	RT-3.53	2" PVC ELECTRIC, TOP @ 858.68', NO CONFLICT EXPECTED
<ul><li>ULO6B-E</li></ul>	21+67.90	RT-3.32	5" PVC ELECTRIC, TOP @ 859.26', NO CONFLICT EXPECTED
<ul><li>ULO7A-E</li></ul>	21+85.99	LT-3.43	5" PVC ELECTRIC, TOP @ 858.91', NO CONFLICT EXPECTED
<ul><li>ULO7B-E</li></ul>	21+86.34	LT-3.88	5" PVC ELECTRIC, TOP @ 859.08', NO CONFLICT EXPECTED
<ul><li>ULO8A-E</li></ul>	21+55.32	LT-0.50	2" PVC ELECTRIC, TOP @ 857.78', NO CONFLICT EXPECTED
<ul><li>ULO8B-E</li></ul>	21+55.28	LT-0.41	2" PVC ELECTRIC, TOP @ 857.87', NO CONFLICT EXPECTED

-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 STORM AND SANITARY (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL ECEFALU@CITYOFMADISON.COM ((608) 243-5894). -ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED, ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

