

January 20, 2022
File No. 25220157.00

Mr. Steve Ales
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Documentation of Material Management
PDM Warehouse Project, 2517 Bowman Street, Madison
BRRTS # 02-13-584472

Dear Mr. Ales:

This letter documents management of contaminated soil and groundwater during the construction of a new warehouse facility at 2517 Bowman Street at the Dane County Regional Airport in Madison, Wisconsin as required by the Wisconsin Department of Natural Resources (WDNR) in their Soil Materials Management Plan (MMP) approval letter dated January 25, 2021. SCS Engineers (SCS) understands that dewatering and earth moving activities are now complete and the final construction details are being completed.

Background

SCS submitted an MMP to WDNR on behalf of Preferred Development Madison (PDM) on January 11, 2021. The MMP described contamination identified on the property, the planned redevelopment of the property with a 27,200-foot distribution center, and the proposed approach for handling contaminated media displaced by the redevelopment project. The site location is shown on **Figure 1** and the site and surrounding areas of the airport are shown on **Figure 2**.

Soil Contamination

The primary contaminants of concern identified in soil samples collected prior to the start of redevelopment activities are per- and polyfluoroalkyl substances (PFAS). The initial Phase 2 environmental site assessment sampling included analysis of six soil samples for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals. VOCs were not detected; low level PAHs detected in one of the samples were much less than the residual contaminant levels (RCLs) for non-industrial direct contact and groundwater protection; and detected metals concentrations were less than background threshold values (BTVs).

Documented use of PFAS-contaminated materials on site was not identified by the Phase 1 Environmental Site Assessment (ESA) and the potential for PFAS contamination in soil was not addressed by the Phase 2 ESA. Soil sampling and analysis completed by SCS prior to the preparation of the MMP did not detect PFAS contamination (other than PFBA attributable to lab contamination) in the area of the largest planned excavation in the central portion of the site. Relatively low concentrations of PFAS were detected in soil in areas adjacent to the tarmac at the northeast edge of the project site and along the alignment of the new storm sewer. None of the detected PFAS concentrations exceeded NR 720 RCLs based direct contact with contaminated soil.



Groundwater Contamination

Analyses of two groundwater samples collected during the Phase 2 ESA detected traces of toluene and several PAHs, at a concentration less than the corresponding NR 140 preventive action limits (PALs). Elevated concentrations of metals, exceeding one or more Wisconsin groundwater enforcement standards, were detected in both unfiltered groundwater samples. A combined concentration of 51 nanograms per liter (ng/l) PFOS and PFOA was detected in the one groundwater sample analyzed for PFAS during the Phase 2 ESA.

The combined concentrations of PFOA and PFOS in five groundwater samples SCS collected from groundwater monitoring wells prior to submitting the MMP ranged from 14.6 to 246 ng/l. These concentrations straddled the U.S. Environmental Protection Agency drinking water advisory level of 70 ng/l and generally exceed the proposed WDNR enforcement standards of 20 ng/l for PFOA and PFOS.

Redevelopment

The re-development of the site included the construction of an approximately 27,200-square-foot distribution center building. Most of the balance of the site has been paved with asphalt or concrete, with some landscaped areas northwest of the building and along the southwest side of the site, along Bowman Street. Copies of the site, utility, and landscaping plans showing the area of the building, infrastructure improvements, and other ground cover materials are provided in **Attachment A**.

Preliminary earth balance calculations by the construction team indicated a net cut of approximately 7,400 cubic yards of soil. The most significant cut areas include the depressed loading dock ramps adjacent to the truck docks on the southwest side of the building and areas around the edges of the site to accommodate sloping for drainage. In addition to the construction work on site, the project included installation of an improved storm drain pipe extending from the north corner of the site for approximately 650 feet along the edge of the airport tarmac.

Construction

Initial site work was started by PSG, Inc. (PSG), the general contractor, for the project in early spring 2021. When SCS inspected the site on December 15, 2021, construction activities were substantially completed aside from some interior finishing work and exterior details. Photos from SCS's site visits are provided in **Attachment B**.

Dewatering

Griffin Dewatering (Griffin) set up and operated the groundwater dewatering and treatment system. SCS visited the site weekly while dewatering activities were in progress to collect discharge samples as required by the February 4, 2021 letter from the WDNR which approved coverage under Wisconsin Pollutant Discharge Elimination System general permit WI-0046566-07-0.

Dewatering commenced on March 30, 2021, and then continued until May 26, 2021. The pumped groundwater was treated in a settling tank to remove suspended sediment and then pumped through carbon vessels to reduce the concentrations of PFAS. SCS reported discharge volumes and sample results to WDNR via the online reporting portal.

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Following completion of the discharge treatment activities, Griffin sent the spent carbon to Evoqua Water Technologies in Darlington, Pennsylvania for regeneration. A certificate of reactivation provided by Evoqua is included in **Attachment C**.

Soil Management

SCS did not observe unusual or unexpected soil conditions during weekly inspection visits to the site as excavation work proceeded in April and May 2021. Cylindrical steel pilings for the former building(s) on the site were present in some of the footing excavations. These pilings were cut off at depth as necessary.

Consistent with the approved MMP, soil excavated for the construction of the building, grading, and installation of associated underground infrastructure was transported to the designated soil relocation area located approximately 700 feet east of the development site, as shown on **Figure 2**. Prior to the placement of soil, the earthwork contractor, Integrity Grading and Excavating, Inc. (IGE), scraped off and stockpiled the topsoil in the replacement area.


Based on the volumes that IGE reported to PSG, approximately 8,052 cubic yards of soil excavated during construction activities were relocated to the soil replacement area. SCS inspected the site on December 15, 2021. Photos are included in **Attachment B**. The soil replacement area had been seeded and mulched with straw. SCS manually excavated seven test pits with a spade to confirm the thickness of topsoil. The topsoil thickness ranged from more than 16 inches to 5 inches but was generally approximately 6 inches in the soil replacement area. **Figure 3** shows the silt fence, and the contractor-reported limits of replaced soil within the soil replacement area.

Conclusion

Based on SCS's observations during excavation activities and site inspection in December 2021, SCS believes that soil displaced by the construction of the warehouse facility and associated infrastructure improvements has been managed in a manner consistent with the MMP and the conditions of the January 25, 2021 WDNR approval letter.

Please contact Eric Oelkers at (608) 216-7341 or eoelkers@scsengineers.com if you have any questions regarding this report.

Sincerely,



Eric Oelkers, PG
Senior Project Manager / Hydrogeologist
SCS Engineers



Keith Gilkey, PE
Senior Civil Engineer
SCS Engineers

EO/REO_jsn/KRG

cc: Richie Speno, PDM
John Fleischman, PSG

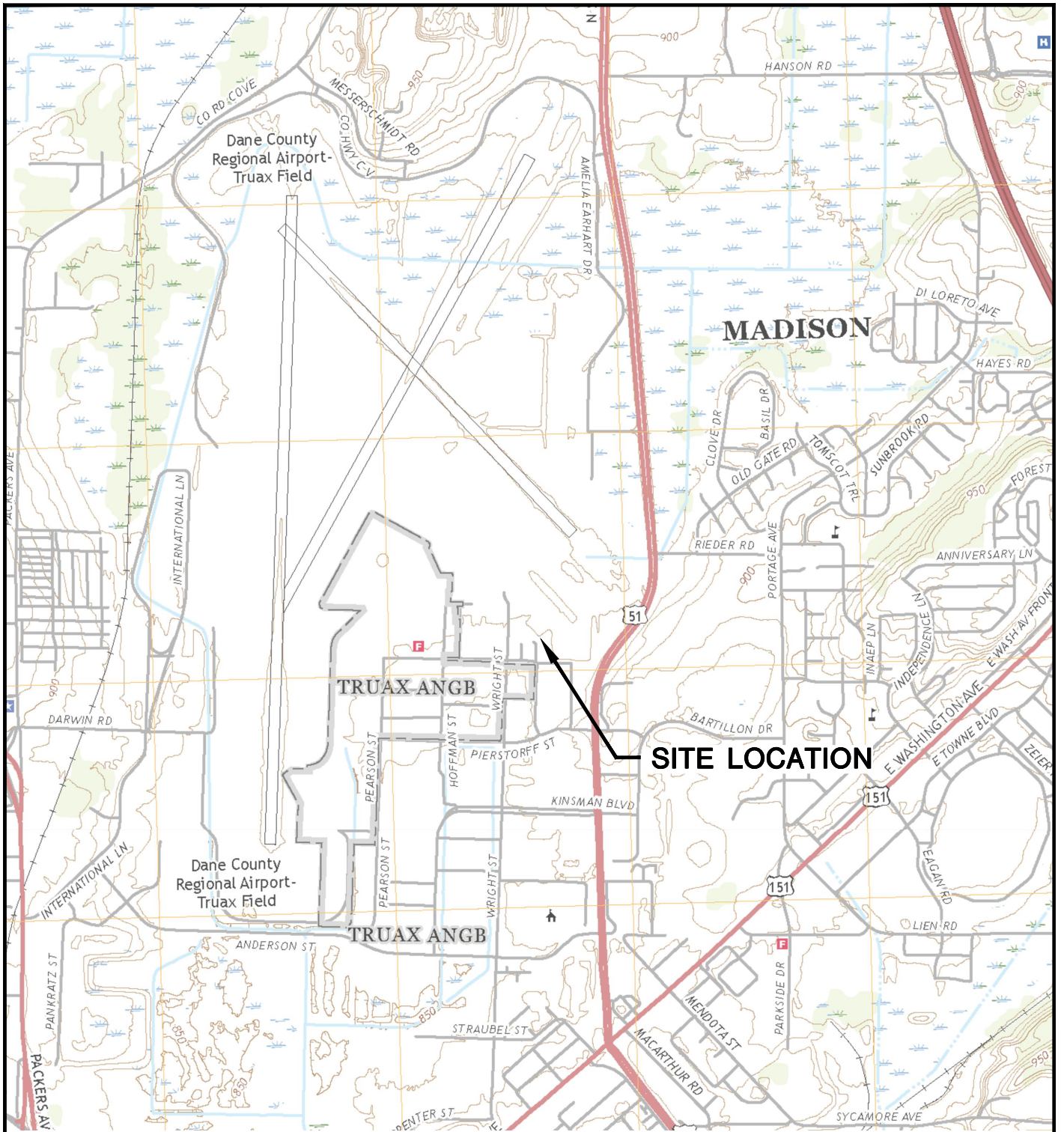
Mr. Steve Ales
January 20, 2022
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Encl. Figure 1 – Site Location Map
Figure 2 – Detailed Site Map
Figure 3 – Soil Replacement Area
Attachment A – Site Drawings
Attachment B – Photos
Attachment C – Carbon Regeneration Certificate

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Figures

- 1 Site Location Map
- 2 Detailed Site Map
- 3 Soil Replacement Area



DE FOREST/MADISON EAST QUADRANGLE
 WISCONSIN-DANE CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 2018
 SCALE: 1" = 2,000'

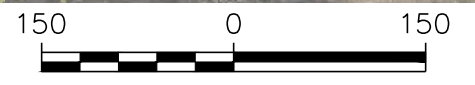


CLIENT	PREFERRED REALTY AND DEVELOPMENT 1723 BANKS ROAD MARGATE, FL 33063		SITE	PDM WAREHOUSE FACILITY 2517 BOWMAN STREET MADISON, WI 53704		ENGINEER	SITE LOCATION MAP	
	PROJECT NO.	25220157.00		DRAWN BY:	BSS		SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE
DRAWN:	08/11/2020	CHECKED BY:	EO	APPROVED BY:	EO 08/11/2020			
REVISED:	08/11/2020							



- LEGEND:**
- DANE COUNTY PARCEL
 - ⊕ GEOPROBE BORING
 - GEOPROBE BORING/TEMPORARY WELL

- NOTES:**
1. 2020 AERIAL BACKGROUND AND PARCEL LINES FROM DANE COUNTY GIS



SCALE: 1" = 150'

PROJECT NO. 25220157.00	DRAWN BY: SHY	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	PREFERRED REALTY AND DEVELOPMENT 1723 BANKS ROAD MARGATE, FL 33063	SITE	PDM WAREHOUSE FACILITY 2517 BOWMAN STREET MADISON, WI 53704	DETAILED SITE MAP	FIGURE
DRAWN: 12/09/2020	CHECKED BY: JR								2
REVISED: 12/21/2020	APPROVED BY: EO, 12/21/2020								



Legend

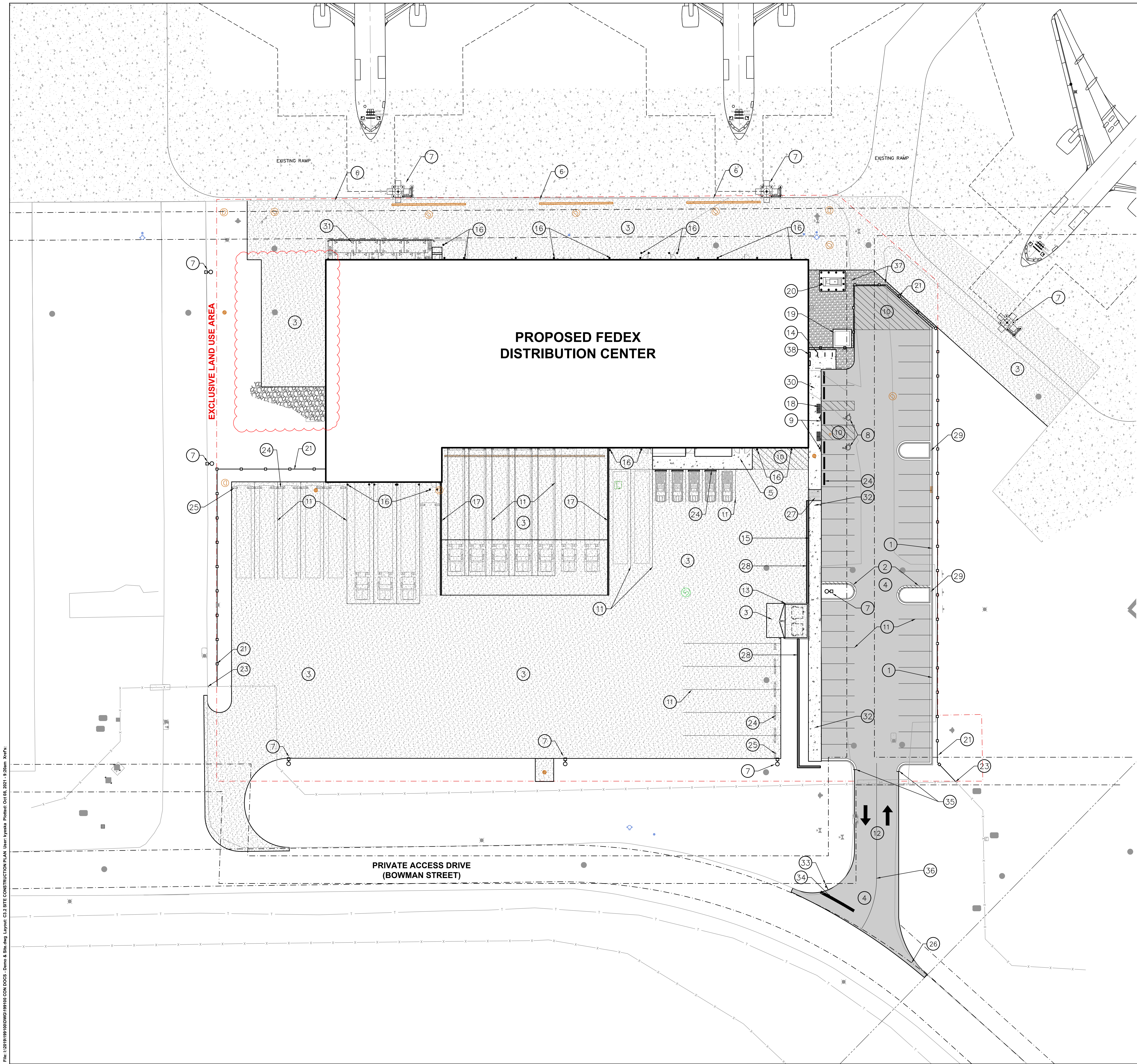
-  Silt Fence Perimeter
-  Test Pit Locations



SCALE: 1" = 75'



Attachment A
Site Drawings



- KEY NOTES**
- 18" CONCRETE STANDARD CURB AND GUTTER (38)
 - 18" CONCRETE REJECT CURB AND GUTTER (39)
 - HEAVY DUTY CONCRETE PAVEMENT (REINFORCEMENT RECOMMENDATION TO BE PROVIDED BY STRUCTURAL)
 - STANDARD ASPHALT PAVEMENT (40)
 - 5" CONCRETE SIDEWALK, TYP. (41)
 - EXISTING EDGE OF RAMP
 - PROPOSED LIGHTS. SEE MEP PLANS
 - ACCESSIBLE PARKING AREA W/ PAINTED SYMBOL, TYP. (42)
 - (2) ACCESSIBLE PARKING SIGNS, TYP. (43)
 - 4" WIDE SOLID WHITE PAINTED STRIPING, 2' O.C. @ 45° ANGLE, TYP.
 - 4" WIDE SOLID WHITE PAINTED STRIPING, TYP.
 - PAINTED DIRECTIONAL ARROWS MEETING CURRENT WISDOT STANDARDS
 - TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS
 - BIKE RACKS, TYP. (44)
 - INSTALL STEEL GUARD RAIL ADJACENT TO WALK. SEE ARCHITECTURAL PLANS
 - BOLLARD, TYP. (45)
 - INSTALL STEEL GUARDRAIL AND STEEL POST. SEE ARCHITECTURAL PLANS
 - DETECTABLE WARNING FIELD, TYP.
 - TRANSFORMER. SEE MEP PLANS. SLAB SPECIFICATION TO BE PROVIDED BY STRUCTURAL
 - GENERATOR AND BOLLARDS. SEE MEP PLANS. SLAB SPECIFICATION TO BE PROVIDED BY STRUCTURAL
 - 10' HIGH FENCE WITH BARBED WIRE. SEE ARCHITECTURAL PLANS.
 - INTERNATIONALLY OMITTED
 - CONNECT 10' FENCE WITH BARBED WIRE TO EXISTING 10' HIGH FENCE
 - 8" CONCRETE WHEEL STOPS (46)
 - 4" CONCRETE WHEEL STOPS (47)
 - REPLACE ASPHALT - NEW ASPHALT TO MATCH EXISTING THICKNESS
 - TRANSITION THICKENED EDGE SIDEWALK TO THICKENED EDGE FLUSH SIDEWALK @ 5.0%
 - SEGMENTED RETAINING WALL, TYP. (48)
 - CONCRETE FLOW CHANNEL (49)
 - THICKENED EDGE SIDEWALK - FLUSH (50)
 - RAISED PLATFORM. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - THICKENED EDGE SIDEWALK (51)
 - STOP SIGN, TYPE R1-1.
 - 18" WIDE SOLID WHITE PAINTED STOP BAR
 - TAPER CURB HEAD TO FLUSH WITH CONNECTING PAVEMENT OVER 2' LENGTH
 - 4" WIDE SOLID YELLOW PAINTED STRIPING
 - STONE MULCH (REFER TO LANDSCAPE PLAN)
 - ELECTRIC AND GAS METER (REFER TO MEP)



CREATE THE VISION TELL THE STORY

MADISON | MILWAUKEE | WAUSAU
APPLETON | KENOSHA | CHICAGO
COEUR D'ALENE

MADISON REGIONAL OFFICE
161 HORIZON DRIVE, SUITE 101
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:
PREFERRED DEVELOPMENT
MADISON, LLC

CLIENT ADDRESS:
1723 BANKS ROAD
MARGATE, FL 33063

PROJECT:
FEDEX MSNR RAMP
STATION FACILITY

PROJECT LOCATION:
2517 BOWMAN STREET
MADISON, WI

PLAN MODIFICATIONS:

#	Date	Description
1	01.28.2020	ENTITLEMENT SUBMITTAL
2	02.26.2020	70% DOCUMENTS
3	06.03.2020	80% DOCUMENTS
4	02.02.2021	CONSTRUCTION DRAWINGS
5	03.04.2021	CIVIL C.R.A.
6	10.08.2021	CONCRETE PAD ADDITION
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15		

Design/Drawn: MWS
Approved: KJV

SHEET TITLE:
SITE CONSTRUCTION PLAN

SHEET NUMBER:
C3.2

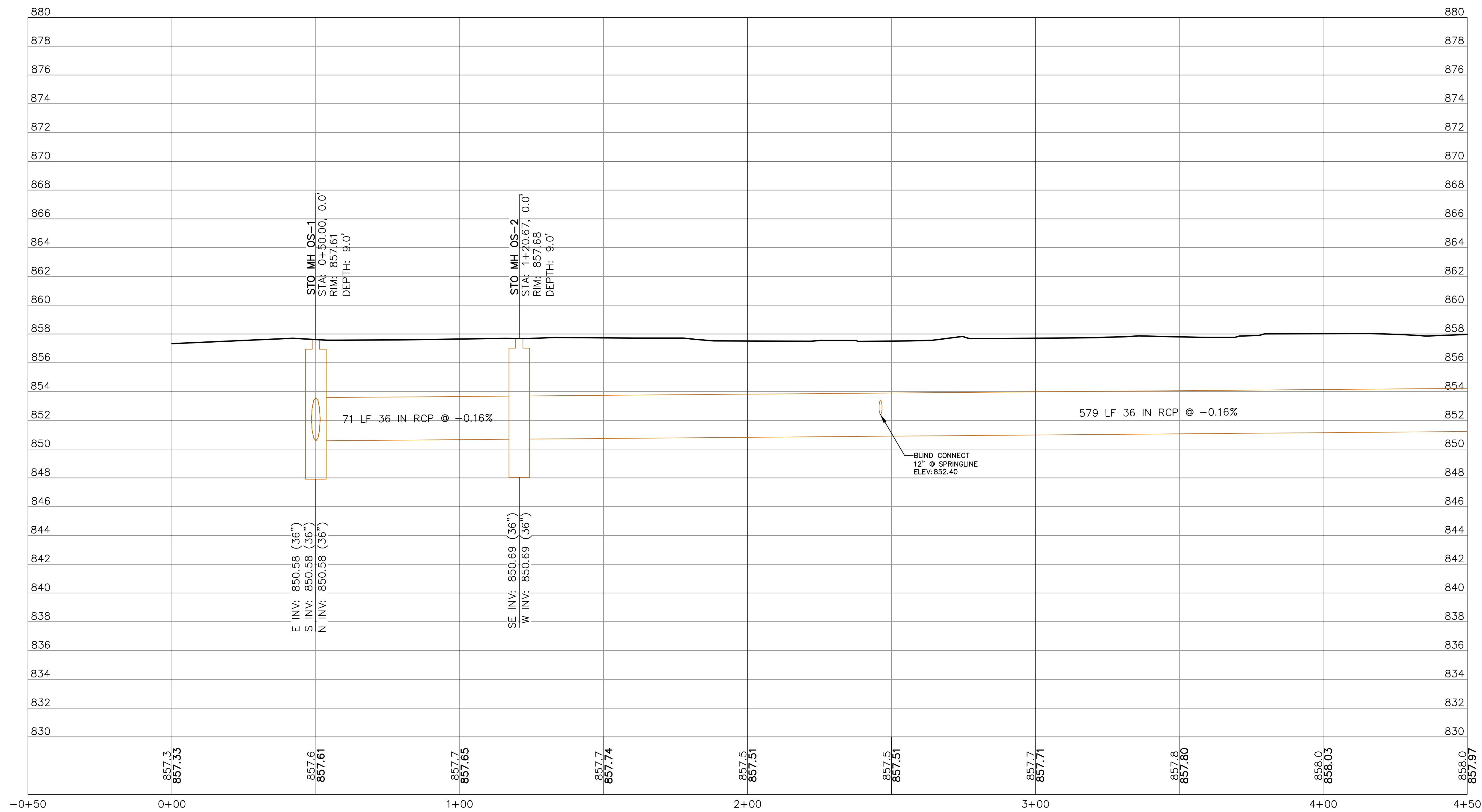
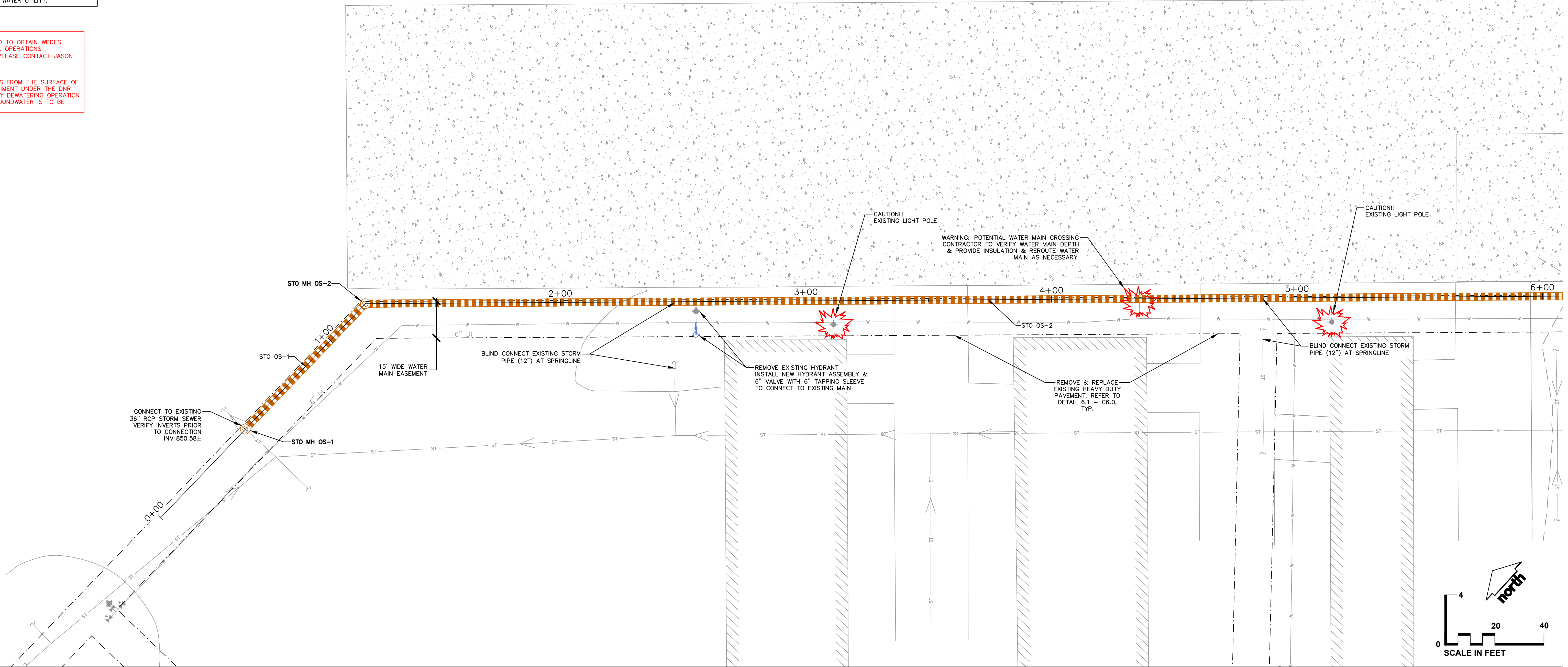
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THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES, INC.

NOTE: CONTRACTOR TO MAINTAIN MAXIMUM COVER ON EXISTING WATER MAIN DURING INSTALLATION AND MINIMIZE POINTS OF EXISTING WATER MAIN EXPOSURE. CONTRACTOR TO COORDINATE ALL WORK NEAR EXISTING WATERMAIN WITH CITY OF MADISON WATER UTILITY.

CAUTION: PFAS GROUNDWATER CONTAMINATION
 ANY GROUNDWATER Dewatering OPERATION AT THIS SITE WILL NEED TO OBTAIN NPDES GENERAL PERMIT FOR CONTAMINATED GROUNDWATER FROM REMEDIAL OPERATIONS (WI-0046566-07). IF YOU HAVE ANY QUESTION ON THIS PERMIT, PLEASE CONTACT JASON KNUTSON, WASTEWATER SECTION CHIEF, AT 608-977-0713 OR JASON.KNUTSON@WISCONSIN.GOV.
 NOTE: THE DISCHARGE OF ACCUMULATED RAIN WATER IN LOW AREAS FROM THE SURFACE OF THIS SITE MAY BE DISCHARGED AFTER PROPER TREATMENT FOR SEDIMENT UNDER THE DNR STORM WATER CONSTRUCTION SITE GENERAL PERMIT. HOWEVER, ANY Dewatering OPERATION WITH A WELL OR OTHER METHOD THAT IS DESIGNED TO REMOVE GROUNDWATER IS TO BE REGULATED UNDER GENERAL PERMIT WI-0046566-07.



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MADISON REGIONAL OFFICE
 161 HORIZON DRIVE, SUITE 101
 VERONA, WISCONSIN 53593
 P. 608.848.5060

CLIENT:
PREFERRED DEVELOPMENT
MADISON, LLC

CLIENT ADDRESS:
1723 BANKS ROAD
MARGATE, FL 33063

PROJECT:
FEDEX MSNR RAMP
STATION FACILITY

PROJECT LOCATION:
2517 BOWMAN STREET
MADISON, WI

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3	06.03.2020	80% DOCUMENTS
4	02.02.2021	CONSTRUCTION DRAWINGS
5	10.08.2021	CONCRETE PAD ADDITION
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Design/Drawn: EWC
 Approved: MNR

SHEET TITLE:
PLAN & PROFILE
OFF-SITE STORM SEWER
STA:0+00 - STA:4+00

SHEET NUMBER:
C5.1



Toll Free (800) 242-8511

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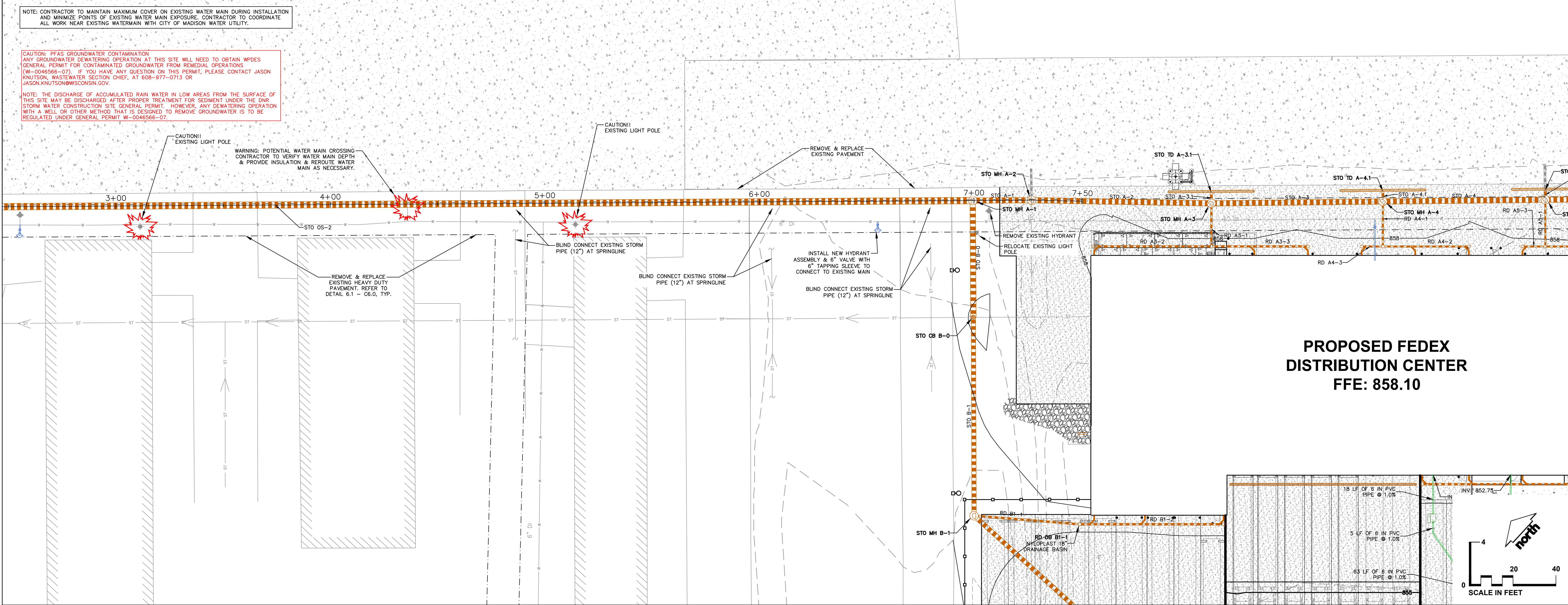
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3	06.03.2020	80% DOCUMENTS
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Design/Drawn: EWC
Approved: MRW

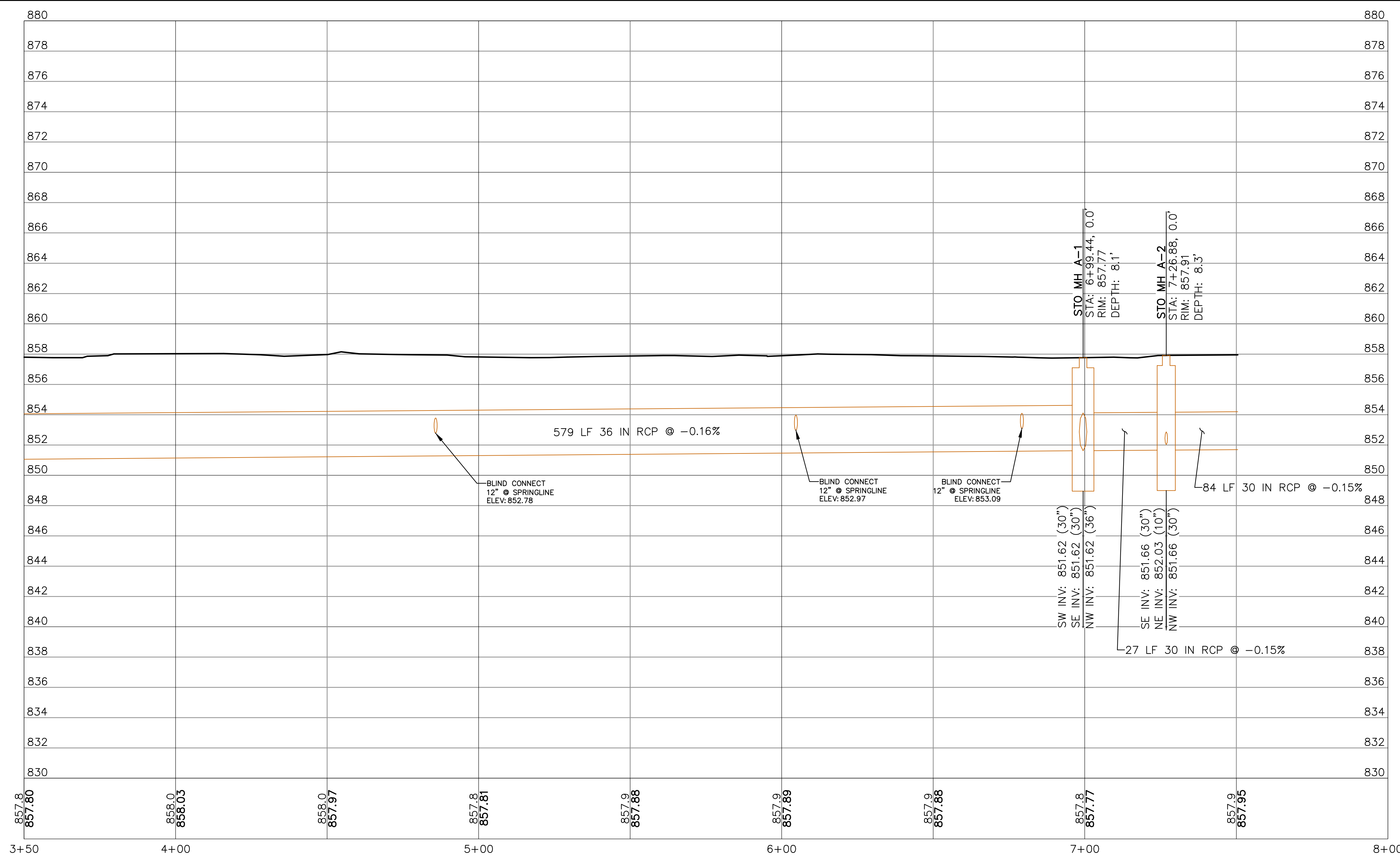
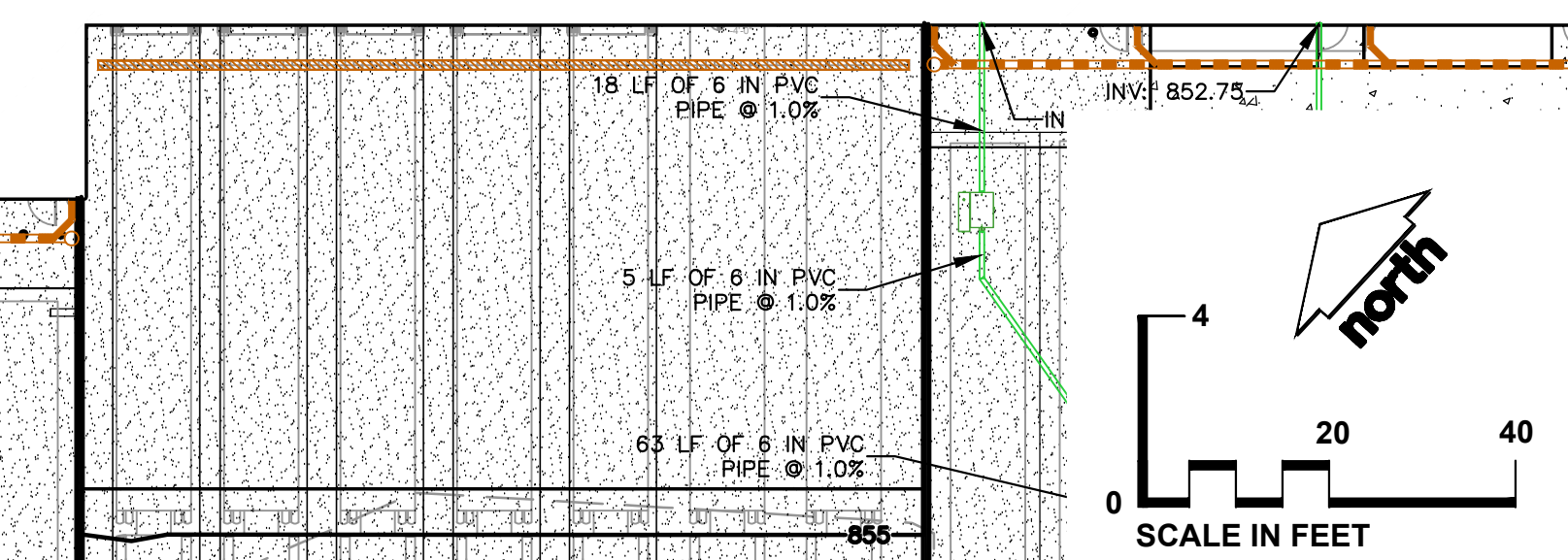
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PLAN & PROFILE
OFF-SITE STORM SEWER
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SHEET NUMBER:

C5.2



PROPOSED FEDEX DISTRIBUTION CENTER
FFE: 858.10



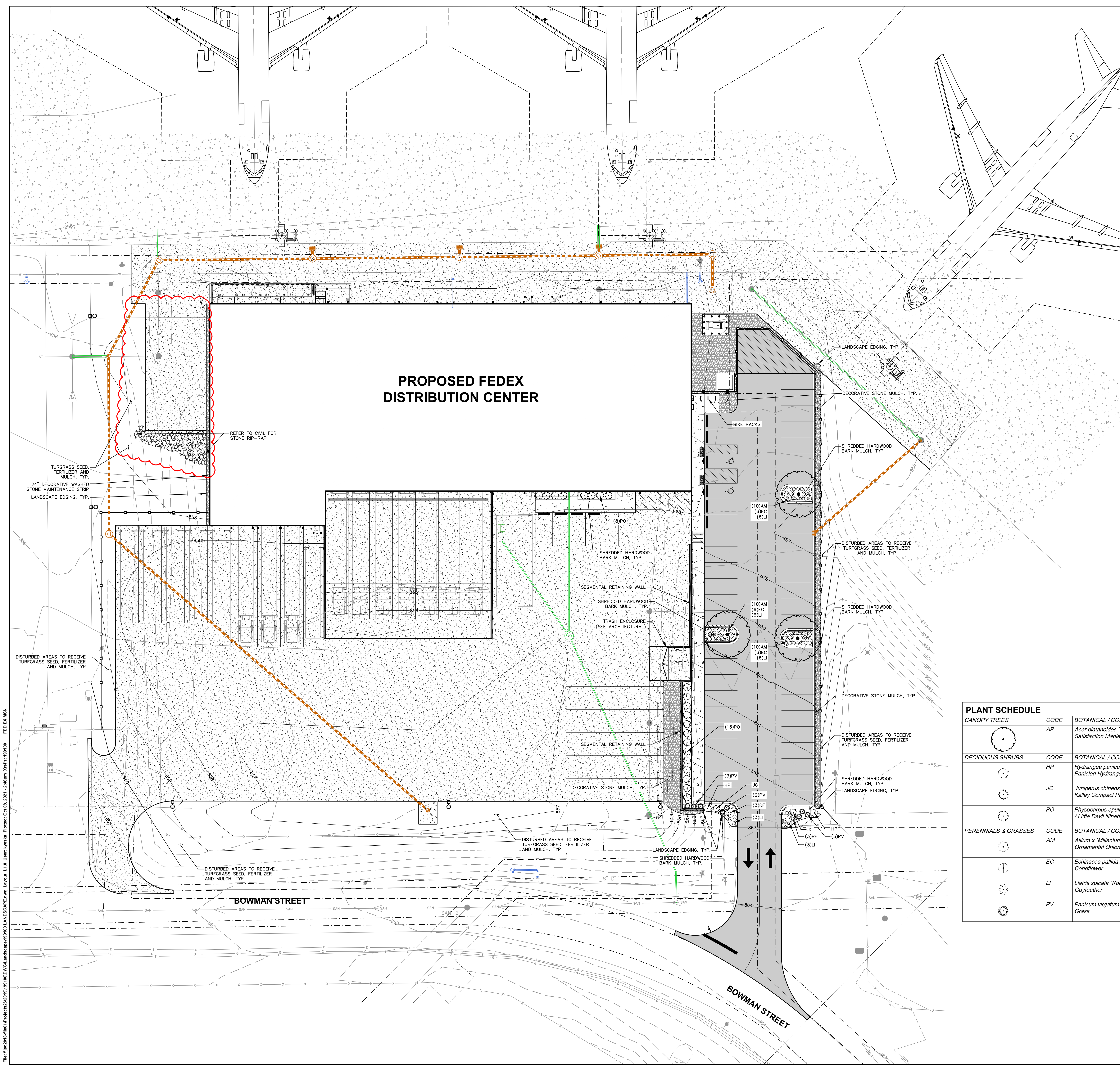
LEGEND

[Dashed line]	PROJECT SCOPE AREA
[Solid line]	BUILDING OUTLINE
[Dotted line]	EDGE OF PAVEMENT
[Double line]	STANDARD CURB AND GUTTER
[Single line]	REJECT CURB AND GUTTER
[Hatched pattern]	ASPHALT PAVEMENT
[Dotted pattern]	HEAVY DUTY ASPHALT PAVEMENT
[Solid pattern]	CONCRETE PAVEMENT
[Dashed line]	959 PROPOSED 1 FOOT CONTOUR
[Dashed line]	960 PROPOSED 5 FOOT CONTOUR
[Dashed line]	959 EXISTING 1 FOOT CONTOUR
[Dashed line]	960 EXISTING 5 FOOT CONTOUR
[Green line]	SANITARY SEWER
[Blue line]	WATERMAIN
[Orange line]	STORM SEWER
[SAN]	EXISTING SANITARY SEWER
[W]	EXISTING WATERMAIN
[ST]	EXISTING STORM SEWER
[Hatched pattern]	SEGMENTED RETAINING WALL
[X]	EXISTING FENCE
[Dashed line]	PROPOSED CHAINLINK FENCE
[Circle]	LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
[Square]	ADA PARKING SIGN
[Line]	POLYETHYLENE EDGING
[Pattern]	DECORATIVE STONE MULCH
[I]	BIKE RACK

GENERAL NOTES

- REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
- ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE MUNICIPAL STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
- DRAWING FOR REVIEW - NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND TOPSOILING WITH GENERAL CONTRACTOR.
- REFER TO "LANDSCAPE DETAILS AND NOTES" SHEET FOR ADDITIONAL DETAILS, NOTES AND SPECIFICATION INFORMATION INCLUDING MATERIALS, GUARANTEE AND EXECUTION RELATED TO LANDSCAPE PLAN.
- CONTRACTOR SHALL REVIEW SITE CONDITIONS FOR UTILITY CONFLICTS, DRAINAGE ISSUES, SUBSURFACE ROCK, AND PLANT PLACEMENT CONFLICTS PRIOR TO PLANT INSTALLATION. REPORT ANY CONDITIONS THAT MAY HAVE ADVERSE IMPACT ON PLANTING OPERATIONS TO LANDSCAPE ARCHITECT.
- DO NOT COMMENCE PLANTING OPERATIONS UNTIL ALL ADJACENT SITE IMPROVEMENTS AND FINISH GRADING ARE COMPLETE.

**PROPOSED FEDEX
DISTRIBUTION CENTER**



PLANT SCHEDULE

CANOPY TREES	CODE	BOTANICAL / COMMON NAME	ROOT CONDITION	SIZE AT PLANTING	QTY
[Symbol]	AP	<i>Acer platanoides</i> 'Satisfaction' / Satisfaction Maple	B & B	2.5" min. cal.	3
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE AT PLANTING	QTY
[Symbol]	HP	<i>Hydrangea paniculata</i> 'Pinky Winky' / Panicked Hydrangea	3 gal	Min. 12"-24"	2
[Symbol]	JC	<i>Juniperus chinensis</i> 'Kallays Compact' / Kallay Compact Pfitzer Juniper	3 gal	Min. 12"-24"	2
[Symbol]	PO	<i>Physocarpus opulifolius</i> 'Donna May' TM / Little Devil Ninebark	3 gal	Min. 12"-24"	21
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE AT PLANTING	QTY
[Symbol]	AM	<i>Allium x 'Millenium'</i> / Millenium Ornamental Onion	1 Gal	Min. 12"-24"	36
[Symbol]	EC	<i>Echinacea pallida</i> / Pale Purple Coneflower	1 Gal	Min. 12"-24"	18
[Symbol]	LJ	<i>Liatris spicata</i> 'Kobold' / Spike Gayfeather	1 Gal	Min. 12"-24"	24
[Symbol]	PV	<i>Panicum virgatum</i> 'Shenandoah' / Switch Grass	1 Gal	Min. 12"-24"	8

PLAN MODIFICATIONS:

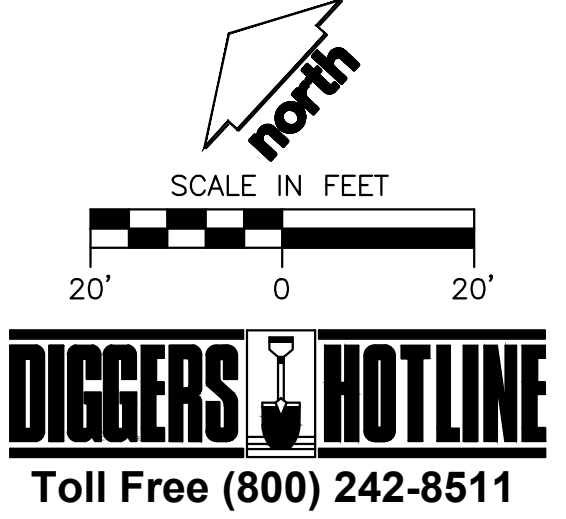
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Design/Drawn: MWS
Approved: MAS

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
L1.0

JSD PROJECT NO: 19-010



DIGGERS HOTLINE
Toll Free (800) 242-8511

Attachment B

Photos

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 1: Initial groundwater treatment system setup, looking southeast (3/16/21; 13:21)



Photo 2: Dewatering system header pipes around dock excavation area, looking southwest (3/26/21; 13:27)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 3: Soil replacement area with partially stripped topsoil, looking northwest (3/26/21; 13:39)



Photo 4: Building footing trench looking north (4/1/21; 08:44)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 5: Footing trench looking east (4/7/21; 09:03)



Photo 6: Soil replacement area looking north (4/7/21; 09:18)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 7: Excavation in loading dock area, looking east - pilings from former building are visible in the left center of photo (4/16/21; 11:06)



Photo 8: General site conditions, looking northeast (5/26/21; 10:26)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 9: View of the completed building looking southeast from Bowman Street (12/15/21; 10:42)



Photo 10: Landscaped area on the north side of the building looking east (12/15/21; 10.43)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 11: Loading dock area looking south (12/15/21; 10:44)



Photo 12: Parking area on south side of site, looking west toward Bowman Street (12/15/21; 10:48)

PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 13: Test pit #1 in soil replacement area, looking northwest (12/15/21; 11:09)



Photo 14: Soil replacement area looking north (12/15/21; 11:19)


PDM Distribution Facility – Dane County Regional Airport
2517 Bowman Street, Madison, Wisconsin
SCS Engineers Project #25220157.00



Photo 15: Soil replacement area looking west at new building (12/15/21; 11:19)



Photo 16: Soil replacement area looking south (12/15/21; 11:33).



Attachment C
Carbon Regeneration Certificate



Wednesday, September 08, 2021

PDM Warehouse Project
2517 Bowman Street
Madison WI 53704

Dear Sir/Madam:

Evoqua Water Technologies' carbon reactivation process involves segregated thermal treatment of spent activated carbon for the removal of organic contaminants. Organic contaminants are driven from activated carbon in rotary kilns at temperatures up to 1750 degrees Fahrenheit. Desorbed organic contaminants are combusted in high temperature excess air afterburners at measured destruction and removal efficiencies of at least 99.99%. Exit gases from the afterburners are passed through a scrubbing system for particulate removal and acid gas neutralization before being released to the atmosphere.

This document certifies that Evoqua Water Technologies has reactivated the spent adsorbent noted below in accordance with all applicable Federal, Pennsylvania state laws, ordinances, permits and regulations.

PO NUMBER:	_____
LOT NUMBER:	EWT-PDMMWI-GW
DATE RECEIVED:	9/1/2021
MANIFEST NUMBER:	_____
QUANTITY RECEIVED (lbs):	36085
SPENT APPARENT DENSITY (g/ml):	0.962
DATE COMPLETED:	9/4/2021
AMOUNT RETURNED:	18,455
REACT APPARENT DENSITY (g/ml):	0.58
CCL4:	_____
Iodine:	_____

Sincerely,

A handwritten signature in cursive script that reads "Linda Willard".

Linda Willard
Administrative Assistant