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Madison, WI 53717

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December 18, 2020

Mr. John Mason  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Subject: Documentation Report for Management of Contaminated Soil  
USH 51 – Wisconsin/Dewitt & Thompson Streets  
Portage, Columbia County, Wisconsin  
TRC Project 317018.0000.0000

Dear Mr. Mason:

Enclosed is the Documentation Report for Management of Contaminated Soil for the USH 51 – Wisconsin/Dewitt & Thompson Streets project in Portage, Wisconsin.

Feel free to contact me at (608) 826-3672, or Dan Haak at (608) 826-3628, if you have any questions.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Tom Perkins".

Tom Perkins  
Project Engineer

A handwritten signature in blue ink, appearing to read "Dan Haak".

Dan Haak, P.E.  
Project Manager

cc: Aaron Jahnke – City of Portage (pdf via email)



# Management of Contaminated Soil

Wisconsin / Dewitt & Thompson Streets  
Portage, Columbia County, Wisconsin

December 2020

**Prepared For:**

City of Portage

**Prepared By:**

TRC  
708 Heartland Trail, Suite 3000  
Madison, Wisconsin 53717

A handwritten signature in black ink, appearing to read "Tom Perkins", written over a horizontal line.

Tom Perkins  
Project Engineer

A handwritten signature in blue ink, appearing to read "Dan Haak", written over a horizontal line.

Dan Haak, P.E.  
Project Manager

A handwritten signature in blue ink, appearing to read "Bryan Bergmann", written over a horizontal line.

Bryan Bergmann, P.E.  
TRC Quality Assurance

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## COMMONLY USED ABBREVIATIONS AND ACRONYMS

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DATCP	Department of Agriculture, Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ERP	Environmental Repair Program
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

## Executive Summary

The City of Portage has completed street and utility improvements for portions of USH 51 (Wisconsin & Dewitt Streets) and Thompson Street, from Ontario Street to E. Pleasant Street in Portage, Wisconsin. The City of Portage street and utility improvement project corridor coincides with the Wisconsin Department of Transportation (WisDOT) USH 51 reconstruction project corridor, from Ontario Street to E. Pleasant Street (WisDOT Project ID #6918-01-02). The City of Portage street and utility improvements precede the WisDOT's reconstruction of USH 51. The City of Portage retained TRC Environmental Corporation (TRC) to provide environmental construction management services for this project. In accordance with the Special Provisions for the Management and Disposal of Contaminated Soil, TRC provided construction oversight, including the field-screening of potentially petroleum and metals contaminated soil and groundwater at sites identified in the Excavation Management Plan.

TRC personnel were on site multiple dates between July 9, 2020 through July 31, 2020, to observe the highway contractor (A-1 Excavating, Inc.) during street and utility improvements and to field-screen potentially contaminated soil. Petroleum-contaminated soil was encountered during construction at various depths at Sites 11, 15, and 19.

Contaminated soil was transported off site for landfill disposal. A total of 277.34 tons of petroleum-contaminated soil was transported to Waste Management's Deer Track Park Landfill in Watertown, Wisconsin for treatment and disposal. 219.20 tons of chlorinated compounds and metals-contaminated soil were transported to Waste Management's Madison Prairie Landfill in Sun Prairie, Wisconsin for disposal. Low-level contaminated soil (PID < 10 ppm) was beneficially reused as backfill on site where applicable.

Potentially contaminated groundwater was encountered during construction and was discharged to the City of Portage's wastewater treatment facility.

On the basis of the findings of the field observations, field-screening results, and information included in the Special Provisions, TRC recommends that the City of Portage take no further action to investigate or remediate soil or groundwater impacts that may remain at the investigated sites or within the construction project limits.

## 1.0 Introduction

### 1.1 Background

The City of Portage has completed street and utility improvements for portions of USH 51 (Wisconsin & Dewitt Streets) and Thompson Street, from Ontario Street to E. Pleasant Street in Portage, Wisconsin. The City of Portage street and utility improvement project corridor coincides with the Wisconsin Department of Transportation (WisDOT) USH 51 reconstruction project corridor, from Ontario Street to E. Pleasant Street (WisDOT Project ID #6918-01-02). The City of Portage street and utility improvements precede the WisDOT's reconstruction of USH 51. Appendix A includes construction plans in the areas of the contaminated soil management. The site location is shown on Figure 1.

TRC completed an Excavation Management Plan for the project corridor, which includes a summary of previous site investigations. Based on the results of the previous reports and City of Portage construction plans, potential contaminated soil and groundwater was expected to be encountered during construction at multiple locations described in the Excavation Management Plan and were included in the contract environmental Special Provisions for the Management and Disposal of Contaminated Soil, provided in Appendix B. The WDNR provided concurrence with these Special Provisions on March 16, 2020. The Special Provisions were prepared for the management of petroleum, chlorinated compounds, and metals-contaminated soil. The WDNR concurrence letter is included in Appendix B.

In accordance with the Special Provisions, the City of Portage retained TRC to oversee excavations in areas with potentially contaminated soil and/or groundwater.

### 1.2 Purpose and Scope

The purpose of this report is to document the results of field observations and field-screening during street and utility improvements at Wisconsin, Dewitt, and Thompson Streets in Portage, Wisconsin.

## 2.0 Field Summary

TRC observed the highway contractor, A-1 Excavating, Inc. (A-1), during construction within areas identified in the Special Provisions as potentially containing contaminated soil and groundwater. TRC provided oversight for the management of contaminated soil encountered during construction. The management of contaminated groundwater was overseen by the City of Portage. A photographic log is included in Appendix C.

### 2.1 Soil Contamination

TRC personnel were on site multiple days between July 9, 2020 and July 31, 2020, to field-screen soil excavated for the street and utility improvements at Wisconsin, Dewitt, and Thompson Streets, as identified in the Special Provisions. TRC personnel field-screened soil based on data from previous investigations, visual observations, odor, and through the use of a PID. Evidence of contaminated soil was observed at various depths during the construction of watermain and water laterals at Site 11, Site 15, and Site 19. Field-screening results are included in Table 1 and contaminated soil extents are shown on Figure 2.

A total of 277.34 tons of petroleum-contaminated soil was transported from excavations at Site 15 and Site 19 to Waste Management's Deer Track Park Landfill in Watertown, Wisconsin for treatment and disposal. A total of 219.20 tons of chlorinated compounds and metals-contaminated soil were transported from excavations at Site 11 to Waste Management's Madison Prairie Landfill in Sun Prairie, Wisconsin for disposal. Soil excavated at Site 11 that showed no field evidence of contamination was assumed to be contaminated below the water table due to groundwater contamination. Low-level contaminated soil (PID < 10 ppm) was beneficially reused as backfill on site where applicable. Landfill disposal documentation is included in Appendix D.

At the request of the WDNR, TRC collected trench bottom confirmation soil samples from multiple locations adjacent to Site 11. Laboratory analysis reports for these samples are included in Appendix E.

One underground storage tank was encountered during construction and was abandoned with oversight provided by TRC. The abandonment of the UST was summarized in TRC's Underground Storage Tank Abandonment Report submitted to the WDNR on October 29, 2020 (TRC, 2020).

## 2.2 Groundwater Contamination

Potentially contaminated groundwater was encountered during street and utility improvements at Wisconsin, Dewitt, and Thompson Streets at multiple sites and was pumped to the City of Portage sanitary sewer system. The highway contractor coordinated with the City of Portage to discharge to the sanitary sewer.

## 3.0 Conclusions and Recommendations

TRC's field observations and field-screening results indicate the following:

- A total of 277.34 tons of petroleum-contaminated soil was transported from excavations at Site 15 and Site 19 to Waste Management's Deer Track Park Landfill in Watertown, Wisconsin for treatment and disposal (Appendix D).
- A total of 219.20 tons of chlorinated compounds and metals contaminated soil were transported from excavations at Site 11 to Waste Management's Madison Prairie Landfill in Sun Prairie, Wisconsin for disposal (Appendix D).
- Low-level petroleum-contaminated soil encountered during construction was beneficially reused on site as backfill and capped by impervious material.
- The dewatering of petroleum- and metals-contaminated groundwater was required during construction. Petroleum- and metals-contaminated groundwater was discharged to the City of Portage's wastewater treatment facility for treatment.

On the basis of the results of field observations and field-screening, the City of Portage managed contaminated soil in accordance with the Special Provisions during the street and utility improvements for portions of USH 51 (Wisconsin & Dewitt Streets) and Thompson Street, from Ontario Street to E. Pleasant Street in Portage, Wisconsin. TRC recommends the City of Portage take no further action to investigate or remediate the contaminated sites.

## 4.0 References

TRC. 2020. Underground Storage Tank Abandonment Report, 205 Dewitt Street, Portage, Columbia County, Wisconsin. October 29, 2020.



**Table 1: Summary of Soil Field Screening Results**  
**USH 51 - Wisconsin/Dewitt & Thompson Streets , Portage, Wisconsin**

DATE	UTILITY	Site Number	APPROX. STATION	LEFT/RIGHT OF REF. LINE	DEPTH (feet BGS)	PID (ppm)	ODOR	SOIL DESCRIPTION
7/9/2020	Water	19	115+40 WI	At RL	4-6	<1	None	Brown sand
			115+40 WI	5 ft Right	8-10	<1	None	Brown sand
			115+40 WI	10 ft Right	6-8	<1	None	Brown sand
			115+40 WI	15 ft Right	8-10	<1	None	Brown sand
7/20/2020	Water	19	116+10 WI	35 ft Right	0.5	<1	None	Dark to medium brown sand with trace gravel, no staining.
			116+10 WI	35 ft Right	7-8	1200	Strong Petroleum Odors	Wet stained black sand
			116+20 WI	10 ft Right	3-4	2	None	Brown Sand
			116+20 WI	At RL	4-6	--	None	Wet brown sand, no staining
			116+20 WI	5 ft Right	3-5	2	None	Brown sand, moisture present, no staining.
			116+20 WI	15 ft Left	6-7	1	None	Wet gray/brown sand, peat present, no staining
			116+20 WI	15 ft Left	7-8	<1	None	Wet gray/brown sand, peat present, no staining
			116+25 WI	35 ft Right	2-3	<1	None	Brown sand with trace gravel, no staining
			116+25 WI	35 ft Right	4	227	Strong Petroleum Odors	Brown sand with staining
			116+25 WI	35 ft Right	5-6	209	Strong Petroleum Odors	Brown sand/ black clay, staining present
			116+75 WI	35 ft Right	0-1	<1	None	Medium to fine grain brown sand, not staining.
			116+75 WI	30 ft Right	2-3	<1	None	White to light brown sand, no staining
			116+75 WI	35 ft Right	5-6	<1	None	Medium to light brown sand with trace gravel, no staining
			116+75 WI	35 ft Right	6-7	4	None	Wet brown sand, no staining
			116+75 WI	35 ft Right	6-7	16	Slight Petroleum Odor	Dark brown stained sand.
			116+70 WI	35 ft Right	6-8	572	Strong Petroleum Odor	Dark brown stained sand.
			116+75 WI	25 ft Right	4-5	<1	None	Medium brown sand, no staining
			116+75 WI	25 ft Right	5-7	1	None	Dark brown/gray sand, no staining
			116+80 WI	25 ft Right	5-7	24	Slight Petroleum Odor	Gray/black sand
			116+75 WI	10 ft Right	4-5	<1	None	Brown sand with some pockets of peat.
			116+75 WI	10 ft Right	5-6	<1	None	Wet gray sand, no staining
116+75 WI	At RL	4-6	<1	None	Brown sand with slight moisture.			
116+75 WI	At RL	6-8	5	None	Wet gray sand with peat, no staining.			
116+75 WI	At RL	6-8	10	Slight Petroleum Odor	Wet gray sand slight staining.			
116+75 WI	10 ft Left	7-9	8	Slight Petroleum Odor	Gray sand			
7/21/2020	Water	11	107+75 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
			107+50 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
			107+30 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
			107+15 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
			107+00 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
			106+90 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.
106+75 WI	10 ft Right	2-8	<1	None	Dark to medium brown sand with gravel. Saturated at ~ 7 ft.			

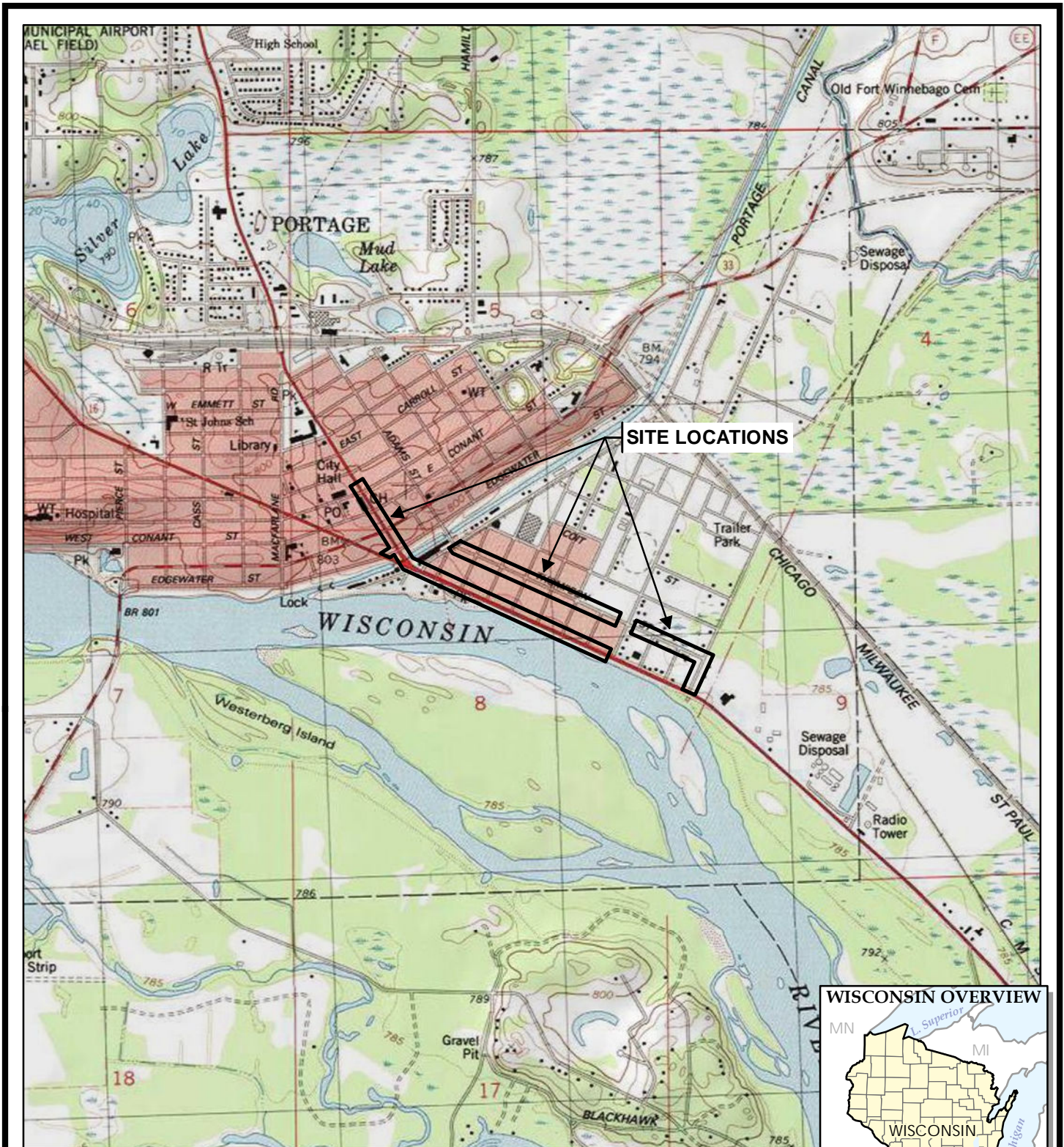
**Table 1: Summary of Soil Field Screening Results**  
**USH 51 - Wisconsin/Dewitt & Thompson Streets , Portage, Wisconsin**

DATE	UTILITY	Site Number	APPROX. STATION	LEFT/RIGHT OF REF. LINE	DEPTH (feet BGS)	PID (ppm)	ODOR	SOIL DESCRIPTION
7/22/2020	Water	11	106+60 WI	10 ft Right	7-8	<1	None	Brown sand
			106+40 WI	10 ft Right	7-8	<1	None	Brown sand
			106+20 WI	10 ft Right	7-8	<1	None	Brown sand
			105+90 WI	10 ft Right	7-8	<1	None	Brown sand
			105+60 WI	10 ft Right	7-8	<1	None	Brown sand
			105+30 WI	10 ft Right	7-8	<1	None	Brown sand
			105+20 WI	10 ft Right	7-8	<1	None	Brown sand
7/27/2020	Water	15	111+50 WI	25 ft Left	0-5	<1	None	Tan to light brown sand with some gravel. Saturated at ~ 8ft.
			111+50 WI	25 ft Left	5-10	780	Strong Petroleum Odor	Tan sand with some gravel.
			111+50 WI	15 ft Left	0-5	26	Slight Petroleum Odor	Tan to light brown sand with some gravel. Saturated at ~ 8ft.
			111+50 WI	15 ft Left	5-10	534	Strong Petroleum Odor	Tan sand with some gravel.
			111+50 WI	5 ft Left	0-5	<1	None	Tan to light brown sand with some gravel. Saturated at ~ 8ft.
			111+50 WI	5 ft Left	5-10	250	Strong Petroleum Odor	Tan sand with some gravel.
			111+50 WI	RL	0-5	<1	None	Tan to light brown sand with some gravel. Saturated at ~ 8ft.
			111+50 WI	RL	5-10	55	Petroleum Odor	Tan sand with some gravel.
			111+50 WI	10 ft Right	0-5	<1	None	Tan to light brown sand with some gravel. Saturated at ~ 8ft.
7/29/2020	Water	11	104+80 WI	10 ft Right	4-5	<1	None	Brown sand
			104+80 WI	10 ft Right	7-8	2.1	Slight Solvent Odor	Brown sand, no staining
			104+90 WI	10 ft Right	4-5	<1	None	Brown sand
			104+90 WI	10 ft Right	7-8	2	Slight Solvent Odor	Brown sand, no staining
			102+40 WI	10 ft Right	5-6	<1	None	Brown sand
			105+05 WI	10 ft Right	7-8	<1	None	Brown sand
7/31/2020	Water	11	105+00 WI	10 ft Right	0-4	<1	None	Tan sand with some gravel.
			105+00 WI	10 ft Right	4-8	<1	None	Tan sand with some gravel. Saturated at ~8 ft.
			105+00 WI	15 ft Right	0-4	<1	None	Tan sand with some gravel.
			105+00 WI	15 ft Right	4-8	<1	None	Tan sand with some gravel. Saturated at ~8 ft.
			105+00 WI	25 ft Right	0-4	<1	None	Tan sand with some gravel.
			105+00 WI	25 ft Right	4-8	<1	None	Tan sand with some gravel. Saturated at ~8 ft.
			105+00 WI	35 ft Right	0-4	<1	None	Tan sand with some gravel.
			105+00 WI	35 ft Right	4-8	<1	None	Tan sand with some gravel. Saturated at ~8 ft.

Notes:

1. bgs = below ground surface
2. PID = photoionization detector
3. ppm = parts per million
4. Sample results recorded as <1 ppm are generally deemed to be false detections due to influence from sample container, ambient air, moisture, etc.
5. -- = information not recorded

Created by: A. Stehn 7/9/2020  
Checked by: T. Perkins 11/20/2020



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



708 Heartland Trail  
Suite 3000  
Madison, WI 53717  
Phone: 608.826.3600

TRC - GIS

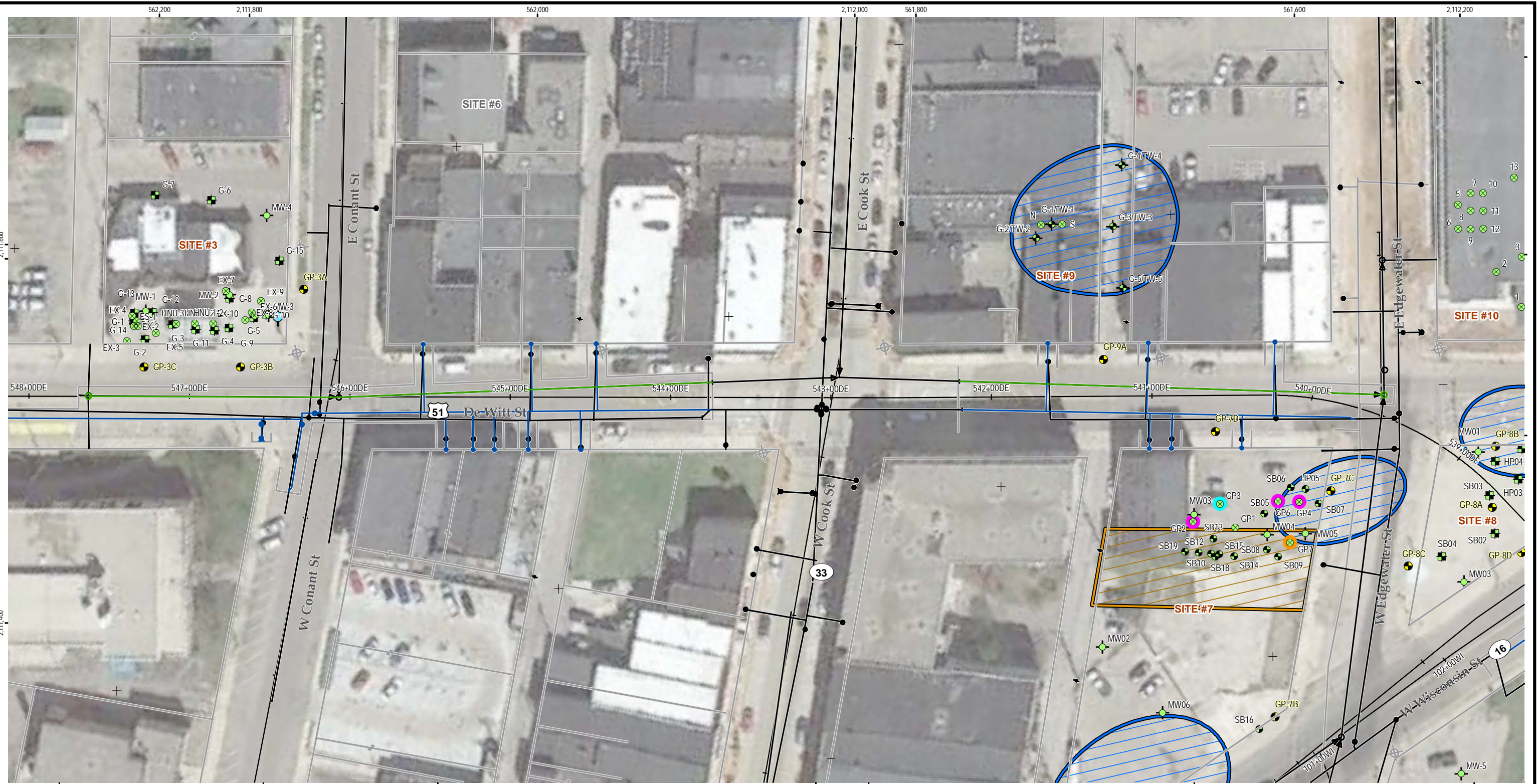
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WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PORTAGE, COLUMBIA COUNTY, WISCONSIN**

TITLE: **SITE LOCATION MAP**

DRAWN BY:	R. SUENICHT
CHECKED BY:	T. PERKINS
APPROVED BY:	D. HAAK
DATE:	FEBRUARY 2020
PROJ. NO.:	317018
FILE:	317018-002slm.mxd

**FIGURE 1**

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 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)  
 Map Rotation: 57.994674  
 TRC - GIS



**LEGEND**

	CURRENT MONITORING WELL		SOIL PCE OR TCE DETECTION
	TRC GEOPROBE BORING		GROUNDWATER PCE OR TCE DETECTION
	HISTORIC/PREVIOUS TEMP WELL		BOTH SOIL AND GROUNDWATER PCE OR TCE DETECTION
	PREVIOUS GEOPROBE BORING		GROUNDWATER CONTAMINATION
	PREVIOUS GROUNDWATER MONITORING WELL		PROPOSED SANITARY SEWER
	PREVIOUS SOIL BORING		PROPOSED WATERMAIN
	PREVIOUS SOIL SAMPLE		EXISTING UTILITIES
	CAP EXTENT		

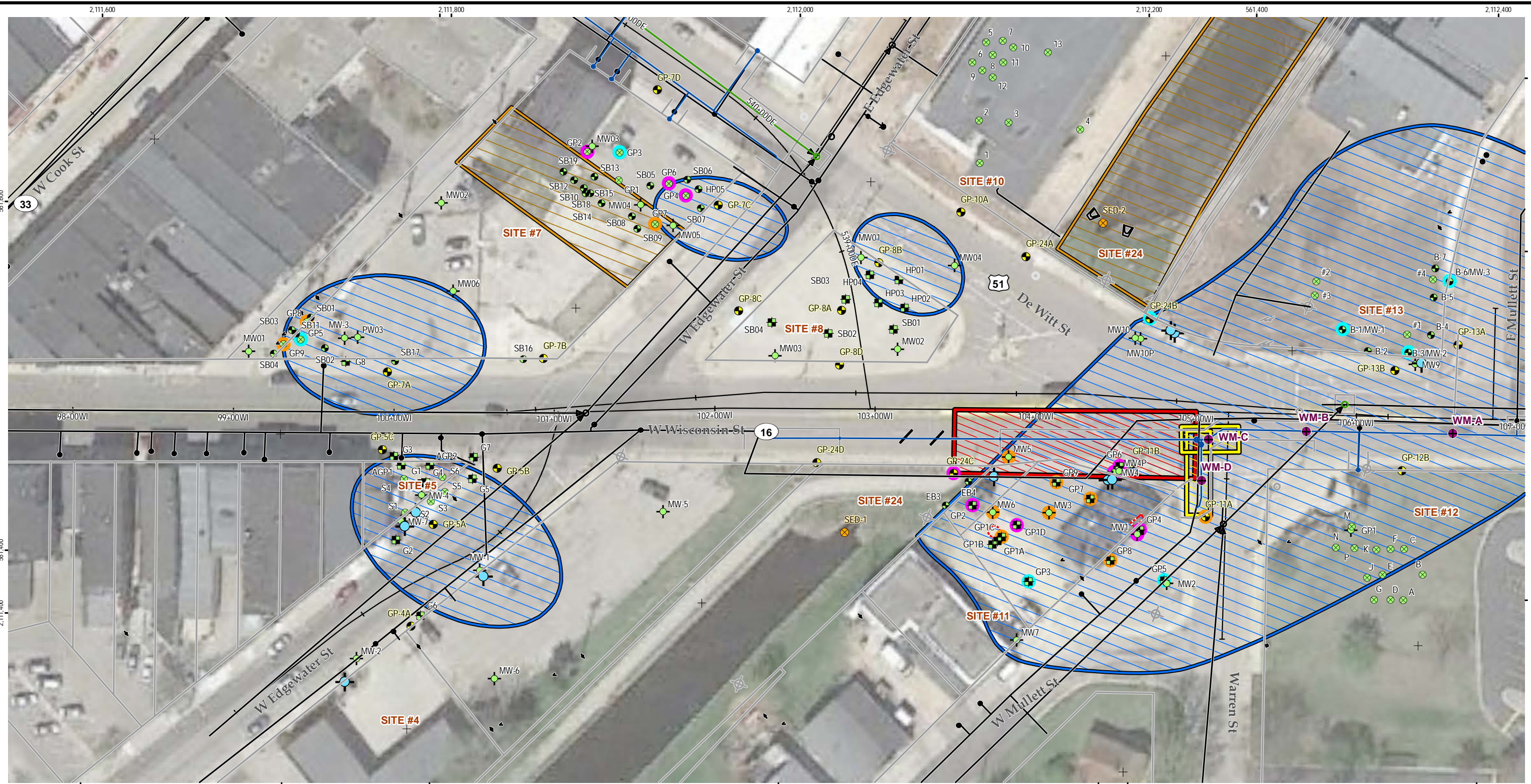
**NOTES**

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2017.
2. CONSTRUCTION PLANS PROVIDED BY CITY OF PORTAGE.
3. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
4. PREVIOUS SAMPLES AND SITE FEATURES ARE APPROXIMATE.
5. TRC GEOPROBE BORINGS INSTALLED AUGUST 28 -30, 2017. LOCATIONS LOGGED WITH GPS.
6. CURRENT MONITORING WELL LOCATIONS COLLECTED USING GPS DURING AUGUST 2017 FIELD WORK.
7. TRC FIELD-SCREENED SOIL WITHIN THE APPROXIMATE EXTENTS SHOWN FOR EVIDENCE OF SOIL CONTAMINATION (I.E. PID>10 PPM, ODORS, STAINING). EVIDENCE OF SOIL CONTAMINATION WAS OBSERVED AND EXCAVATED SOIL WAS LANDFILLED

1" = 60'  
1:720

PROJECT: <b>STREET &amp; UTILITY IMPROVEMENTS WISCONSIN ST. / DEWITT ST. &amp; THOMPSON ST. PORTAGE, COLUMBIA COUNTY, WISCONSIN</b>	
TITLE: <b>SITE PLANS</b>	
DRAWN BY: R. SUEMNICHT	PROJ NO.: 317018
CHECKED BY: T. PERKINS	
APPROVED BY: D. HAAK	<b>FIGURE 2A</b>
DATE: NOVEMBER 2020	
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:	317018-001mb_v2.mxd

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 TRC - GIS



**LEGEND**

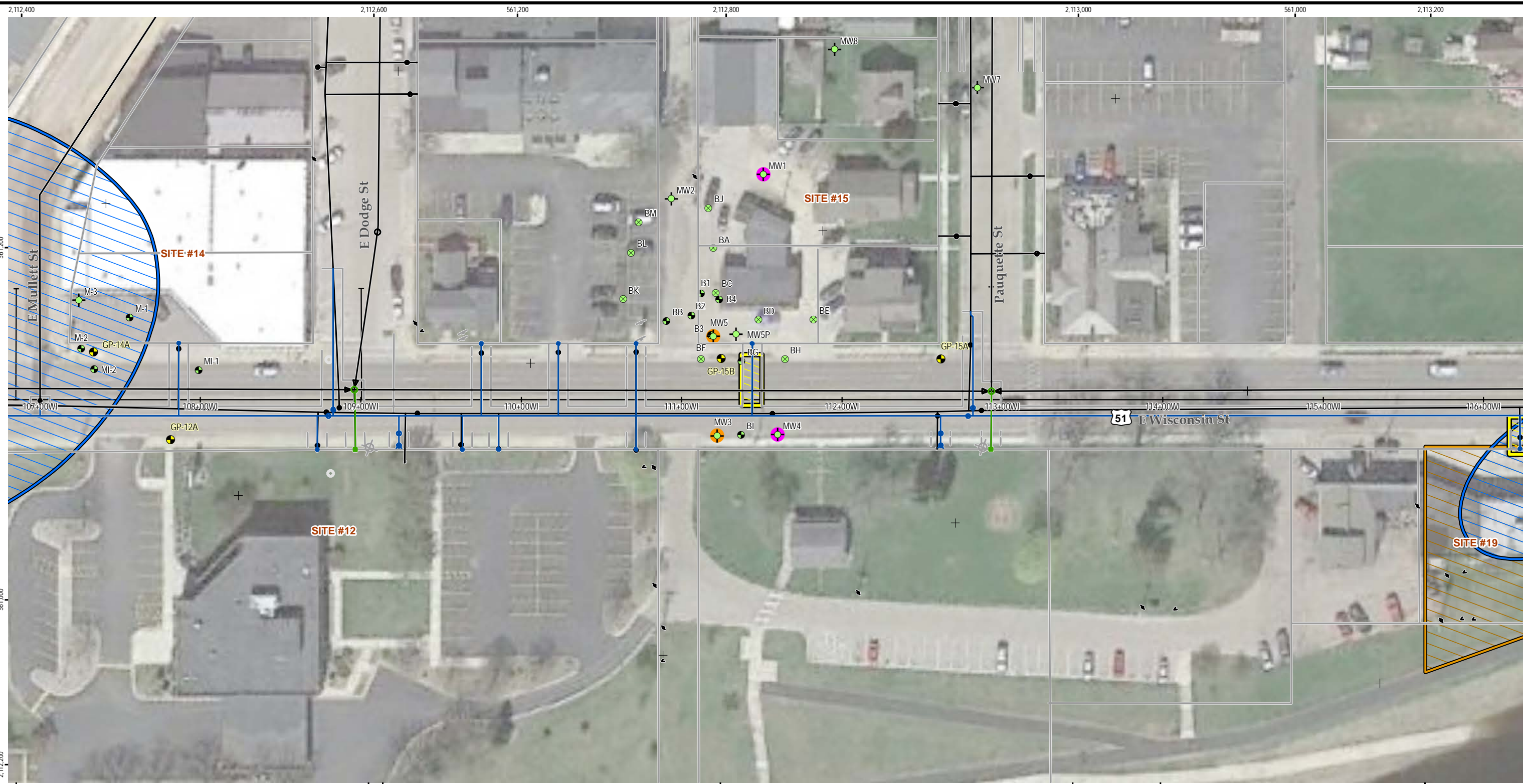
	CURRENT MONITORING WELL		SOIL PCE OR TCE DETECTION
	TRC GEOPROBE BORING		GROUNDWATER PCE OR TCE DETECTION
	TRC SEDIMENT SAMPLE		BOTH SOIL AND GROUNDWATER PCE OR TCE DETECTION
	PREVIOUS GEOPROBE BORING		POTENTIALLY HAZARDOUS CONTAMINATION AREA
	PREVIOUS GROUNDWATER MONITORING WELL		GROUNDWATER CONTAMINATION
	PREVIOUS SOIL BORING		CONTAMINATED SOIL EXTENTS (SEE NOTE 7)
	PREVIOUS SOIL SAMPLE		PROPOSED SANITARY SEWER
	SOIL SAMPLE		PROPOSED WATERMAIN
	CAP EXTENT		EXISTING UTILITIES
	FORMER/EXISTING PCE MACHINES		

**NOTES**

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2017.
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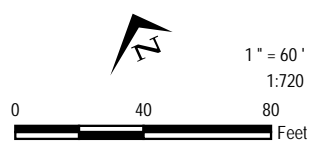
PROJECT: <b>STREET &amp; UTILITY IMPROVEMENTS WISCONSIN ST. / DEWITT ST. &amp; THOMPSON ST. PORTAGE, COLUMBIA COUNTY, WISCONSIN</b>	
TITLE: <b>SITE PLANS</b>	
DRAWN BY: R. SUEMNICHT	PROJ NO.: 317018
CHECKED BY: T. PERKINS	
APPROVED BY: D. HAAK	<b>FIGURE 2B</b>
DATE: NOVEMBER 2020	
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:	317018-001mb_v2.mxd

Plot Date: 11/25/2020 14:41:14 PM by MHORN -- LAYOUT: ANSIB(11"x17")  
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 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)  
 Map Rotation: 24.365084  
 TRC - GIS



LEGEND	
	CURRENT MONITORING WELL
	TRC GEOPROBE BORING
	PREVIOUS GROUNDWATER MONITORING WELL
	PREVIOUS SOIL BORING
	PREVIOUS SOIL SAMPLE
	CAP EXTENT
	SOIL PCE OR TCE DETECTION
	BOTH SOIL AND GROUNDWATER PCE OR TCE DETECTION
	GROUNDWATER CONTAMINATION
	CONTAMINATED SOIL EXTENTS (SEE NOTE 7)
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	EXISTING UTILITIES

- NOTES**
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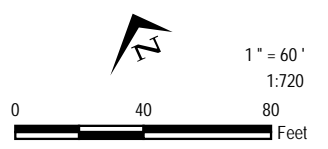
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TITLE:			
<b>SITE PLANS</b>			
DRAWN BY:	R. SUEMNICHT	PROJ NO.:	317018
CHECKED BY:	T. PERKINS	<b>FIGURE 2C</b>	
APPROVED BY:	D. HAAK		
DATE:	NOVEMBER 2020		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:		317018-001mb_v2.mxd	

Plot Date: 11/25/2020 14:41:14 PM by MHORN -- LAYOUT: ANSIB(11"x17")  
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 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)  
 Map Rotation: 24.365084  
 TRC - GIS



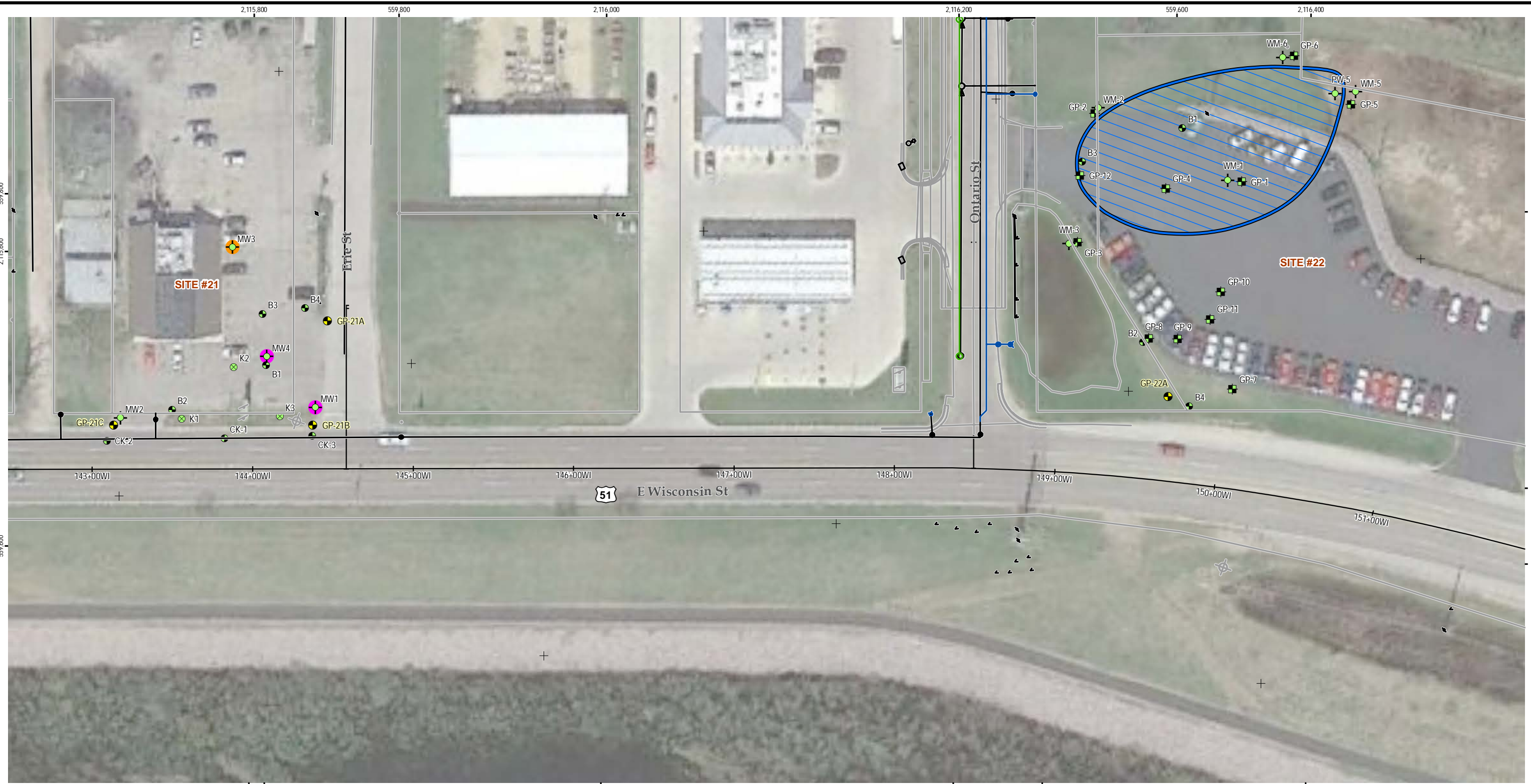
LEGEND	
	CURRENT MONITORING WELL
	TRC GEOPROBE BORING
	PREVIOUS GEOPROBE BORING
	PREVIOUS GROUNDWATER MONITORING WELL
	PREVIOUS SOIL BORING
	CAP EXTENT
	SOIL PCE OR TCE DETECTION
	BOTH SOIL AND GROUNDWATER PCE OR TCE DETECTION
	GROUNDWATER CONTAMINATION
	CONTAMINATED SOIL EXTENTS (SEE NOTE 7)
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	EXISTING UTILITIES

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2017.
  2. CONSTRUCTION PLANS PROVIDED BY CITY OF PORTAGE.
  3. MAP PROJECTION AND GRID COORDINATES ARE NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).
  4. PREVIOUS SAMPLES AND SITE FEATURES ARE APPROXIMATE.
  5. TRC GEOPROBE BORINGS INSTALLED AUGUST 28 -30, 2017. LOCATIONS LOGGED WITH GPS.
  6. CURRENT MONITORING WELL LOCATIONS COLLECTED USING GPS DURING AUGUST 2017 FIELD WORK.
  7. TRC FIELD-SCREENED SOIL WITHIN THE APPROXIMATE EXTENTS SHOWN FOR EVIDENCE OF SOIL CONTAMINATION (I.E. PID>10 PPM, ODORS, STAINING). EVIDENCE OF SOIL CONTAMINATION WAS OBSERVED AND EXCAVATED SOIL WAS LANDFILLED



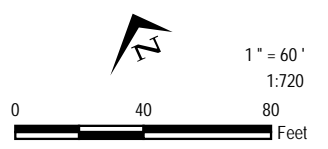
PROJECT:		<b>STREET &amp; UTILITY IMPROVEMENTS WISCONSIN ST. / DEWITT ST. &amp; THOMPSON ST. PORTAGE, COLUMBIA COUNTY, WISCONSIN</b>	
TITLE:			
<b>SITE PLANS</b>			
DRAWN BY:	R. SUEMNICHT	PROJ NO.:	317018
CHECKED BY:	T. PERKINS	<b>FIGURE 2D</b>	
APPROVED BY:	D. HAAK		
DATE:	NOVEMBER 2020		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:		317018-001mb_v2.mxd	

Plot Date: 11/25/2020 14:41:14 PM by MHORN -- LAYOUT: ANSIB(11"x17")  
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 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)  
 Map Rotation: 24.365084  
 TRC - GIS



LEGEND	
	TRC GEOPROBE BORING
	PREVIOUS GEOPROBE BORING
	PREVIOUS GROUNDWATER MONITORING WELL
	PREVIOUS SOIL BORING
	PREVIOUS SOIL SAMPLE
	SOIL PCE OR TCE DETECTION
	BOTH SOIL AND GROUNDWATER PCE OR TCE DETECTION
	GROUNDWATER CONTAMINATION
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	EXISTING UTILITIES

- NOTES**
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  2. CONSTRUCTION PLANS PROVIDED BY CITY OF PORTAGE.
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PROJECT: <b>STREET &amp; UTILITY IMPROVEMENTS WISCONSIN ST. / DEWITT ST. &amp; THOMPSON ST. PORTAGE, COLUMBIA COUNTY, WISCONSIN</b>	
TITLE: <b>SITE PLANS</b>	
DRAWN BY: R. SUEMNICHT	PROJ NO.: 317018
CHECKED BY: T. PERKINS	<b>FIGURE 2E</b>
APPROVED BY: D. HAAK	
DATE: NOVEMBER 2020	
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com	
FILE NO.:	317018-001mb_v2.mxd



## **Appendix A: Construction Plans**

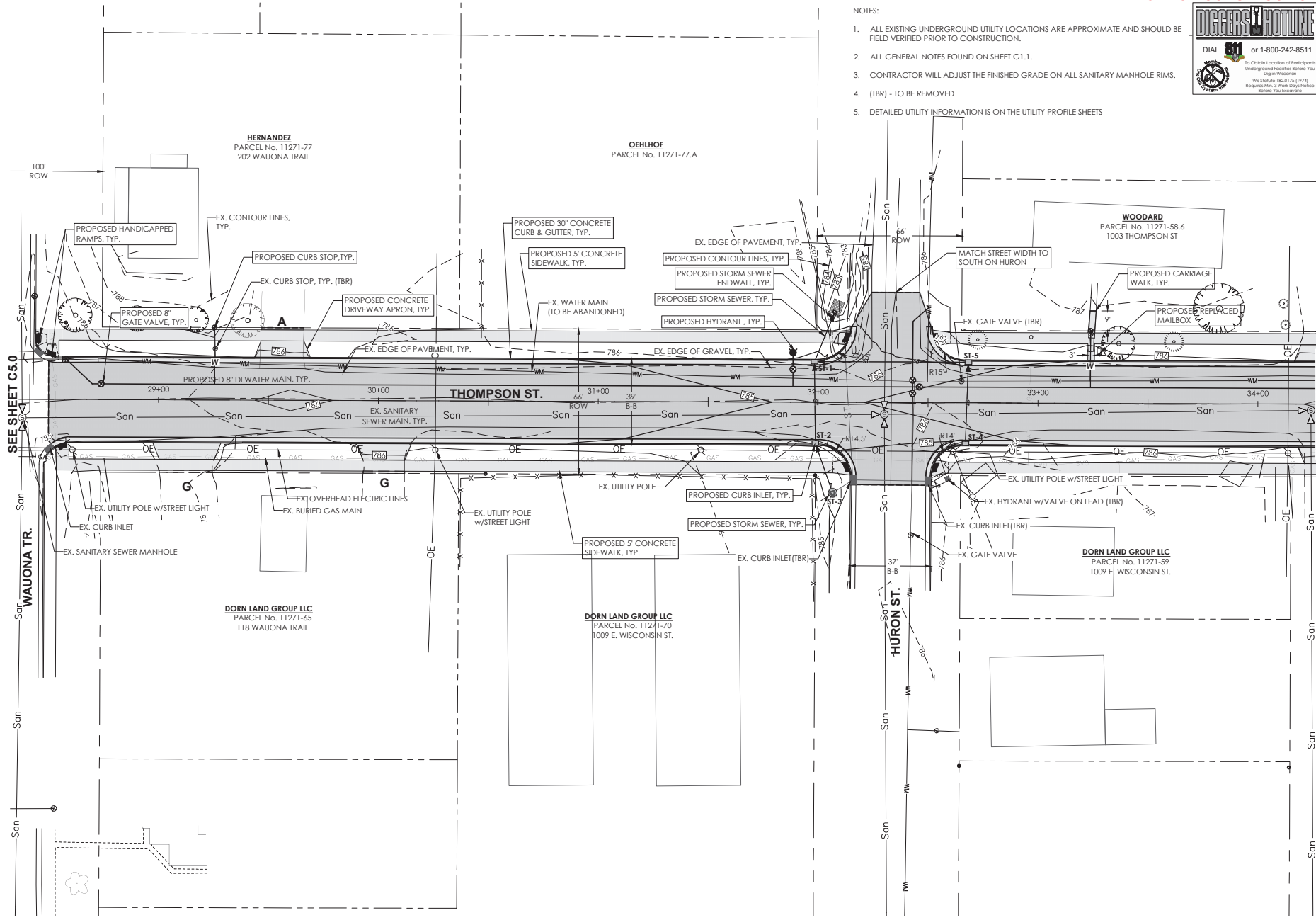
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 DIAL 811 or 1-800-242-8511  
 To Obtain Location of Participants Underground Facilities Before You Dig in Wisconsin  
 Wis Statute 182.01 (5) (1974)  
 Replaces Wis. Statute 182.01 (5) (1974)



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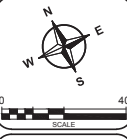
- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. CONTRACTOR WILL ADJUST THE FINISHED GRADE ON ALL SANITARY MANHOLE RIMS.
  4. (TBR) - TO BE REMOVED
  5. DETAILED UTILITY INFORMATION IS ON THE UTILITY PROFILE SHEETS



G:\Current Files LQ\Portage\2019 Projects\2-0119-18 E Wisconsin\Thompson Utility & St. Improvement\CAD 2-0119-182\_CIVIL\Production Drawings\1-C1\_LPSP2-0119-18-0.dwg, 12/20/20 3:40:25 PM, 1:1

**PROPOSED SITE PLAN**  
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**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 1A - THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE



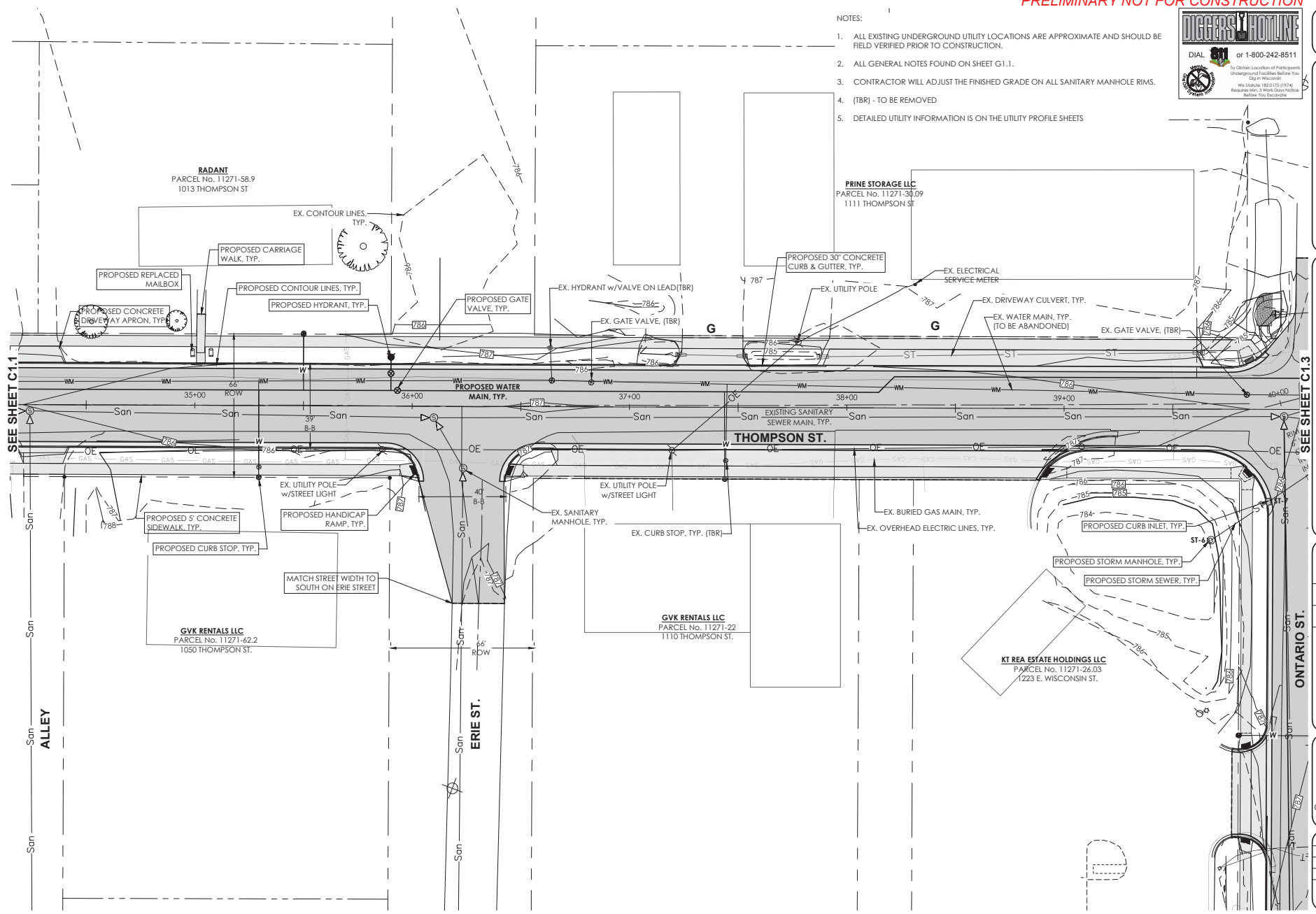
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 DRAWN BY SRR  
 REVIEWED BY KDA  
 ISSUE DATE OCT. 2019  
 GEC FILE NO. 2-0119-18  
 SHEET NO.  
**C1.1**

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- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
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 Underground Facilities Before You  
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 Revised 06/15/13  
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 Before You Excavate

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**PHASE 1A - THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE

REVISIONS

0 40  
SCALE

**C1.2**

DRAWN BY	SRR
REVIEWED BY	KDA
ISSUE DATE	OCT. 2019
GEC FILE NO.	2-0119-1B
SHEET NO.	

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PRELIMINARY NOT FOR CONSTRUCTION

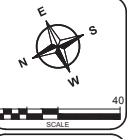


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WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PHASE 1B - ONTARIO ST.  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI

NO.	BY	DATE

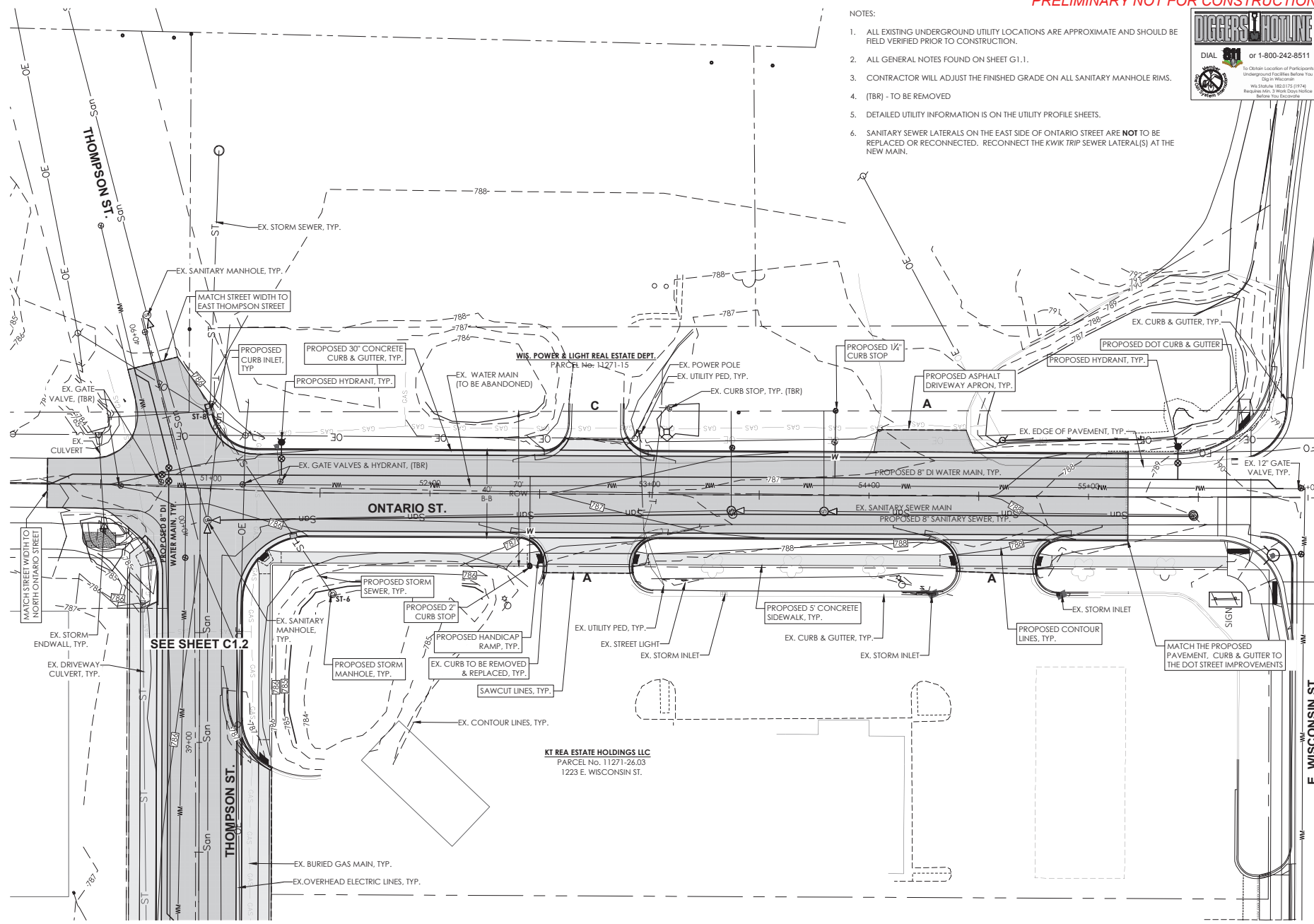


E. WISCONSIN ST.

REVISIONS	SBR

DRAWN BY: SBR  
REVIEWED BY: KDA  
ISSUE DATE: OCT. 2019  
GEC FILE NO.: 2-0119-1B  
SHEET NO.:  
**C1.3**

- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. CONTRACTOR WILL ADJUST THE FINISHED GRADE ON ALL SANITARY MANHOLE RIMS.
  4. (TBR) - TO BE REMOVED
  5. DETAILED UTILITY INFORMATION IS ON THE UTILITY PROFILE SHEETS.
  6. SANITARY SEWER LATERALS ON THE EAST SIDE OF ONTARIO STREET ARE **NOT** TO BE REPLACED OR RECONNECTED. RECONNECT THE KWIK TRIP SEWER LATERAL(S) AT THE NEW MAIN.



SEE SHEET C1.2

KT REA ESTATE HOLDINGS LLC  
PARCEL No. 11271-26.03  
1223 E. WISCONSIN ST.

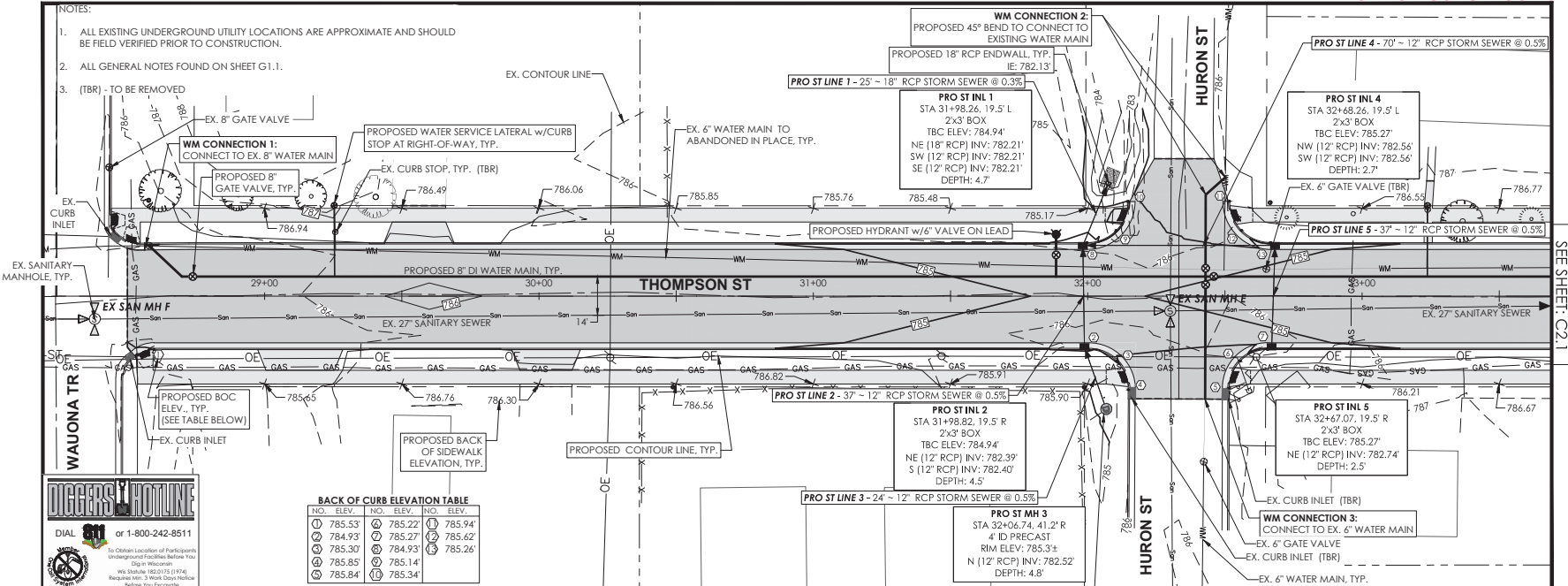
THOMPSON ST.

E. WISCONSIN ST.

PRELIMINARY NOT FOR CONSTRUCTION

NOTES:

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3. (TBR) - TO BE REMOVED



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 To Obtain Location of Participants Underground Facilities Before You Dig - Wisconsin  
 Wis. Statutes 182.0175 (1) & 182.0176  
 Wisconsin Men, It's Your Own Health Before You Excavate

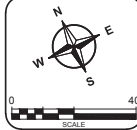
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NO.	ELEV.	NO.	ELEV.	NO.	ELEV.
1	785.53	2	785.22	3	785.94
4	784.93	5	785.27	6	785.62
7	785.30	8	784.93	9	785.26
10	785.85	11	785.14		
12	785.84	13	785.34		

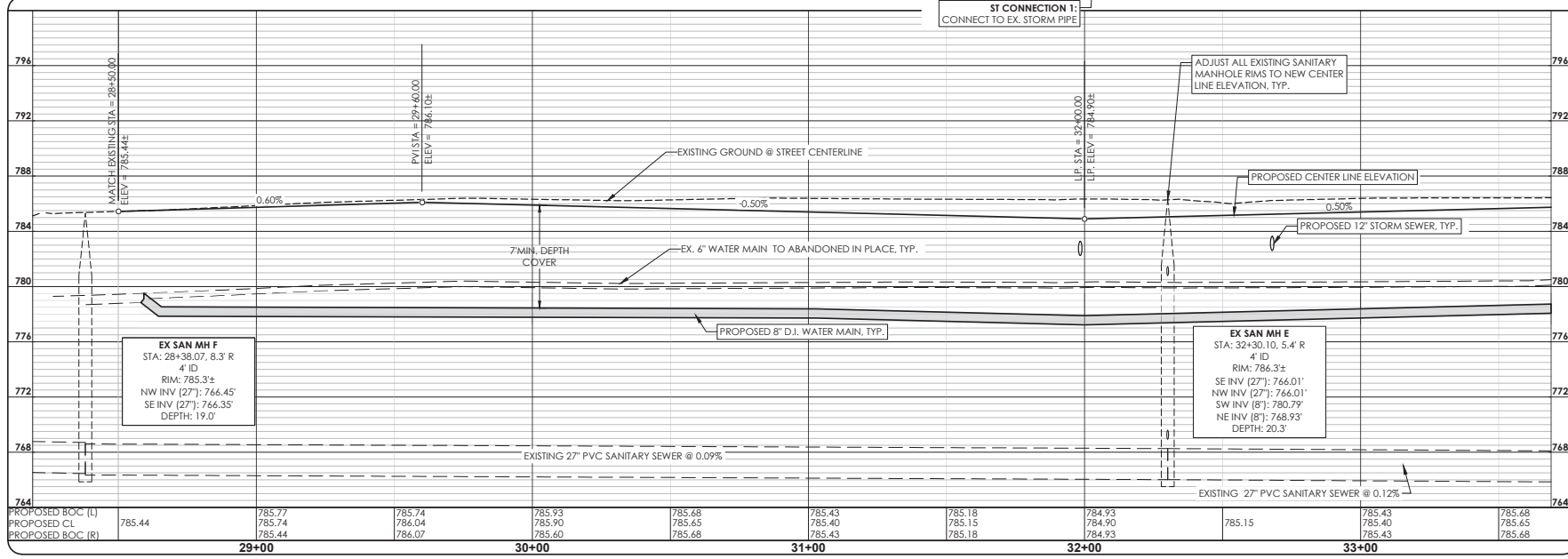
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**PHASE 1A - THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE



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 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO: 2-0119-1B  
 SHEET NO: **C.2.0**



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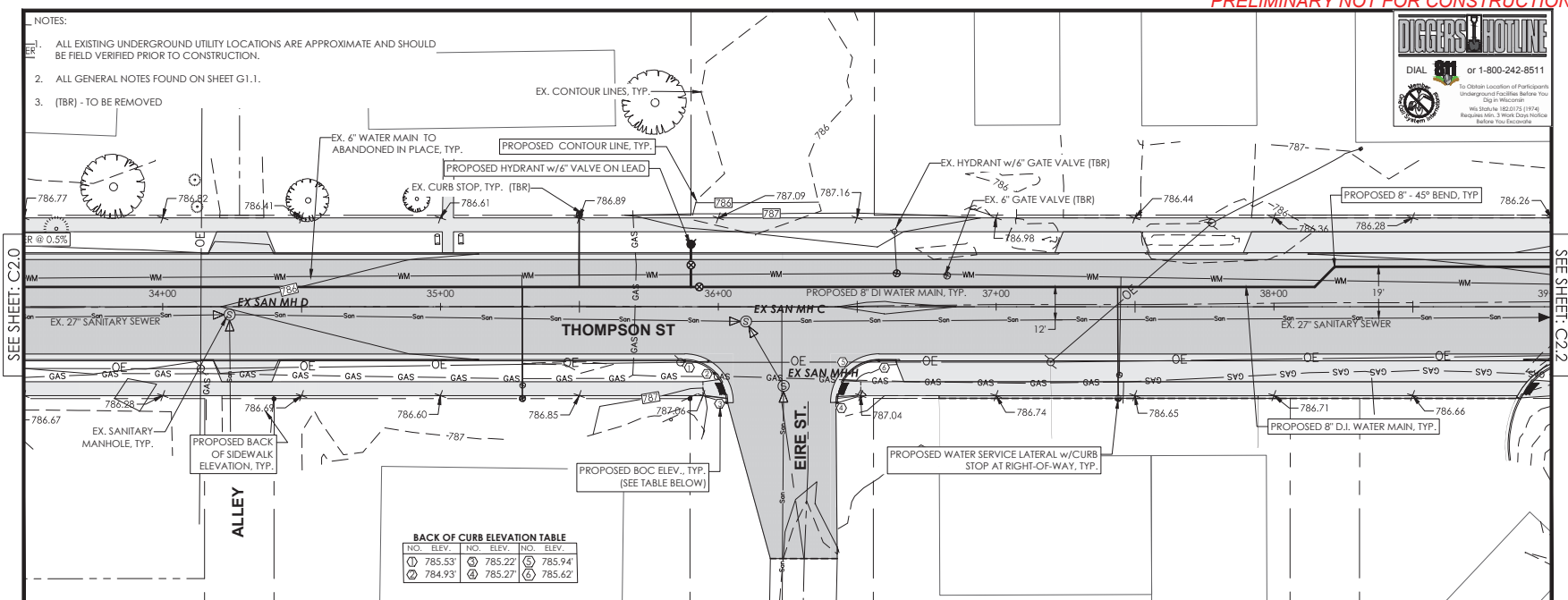
**PLAN & PROFILE**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 1A - THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE



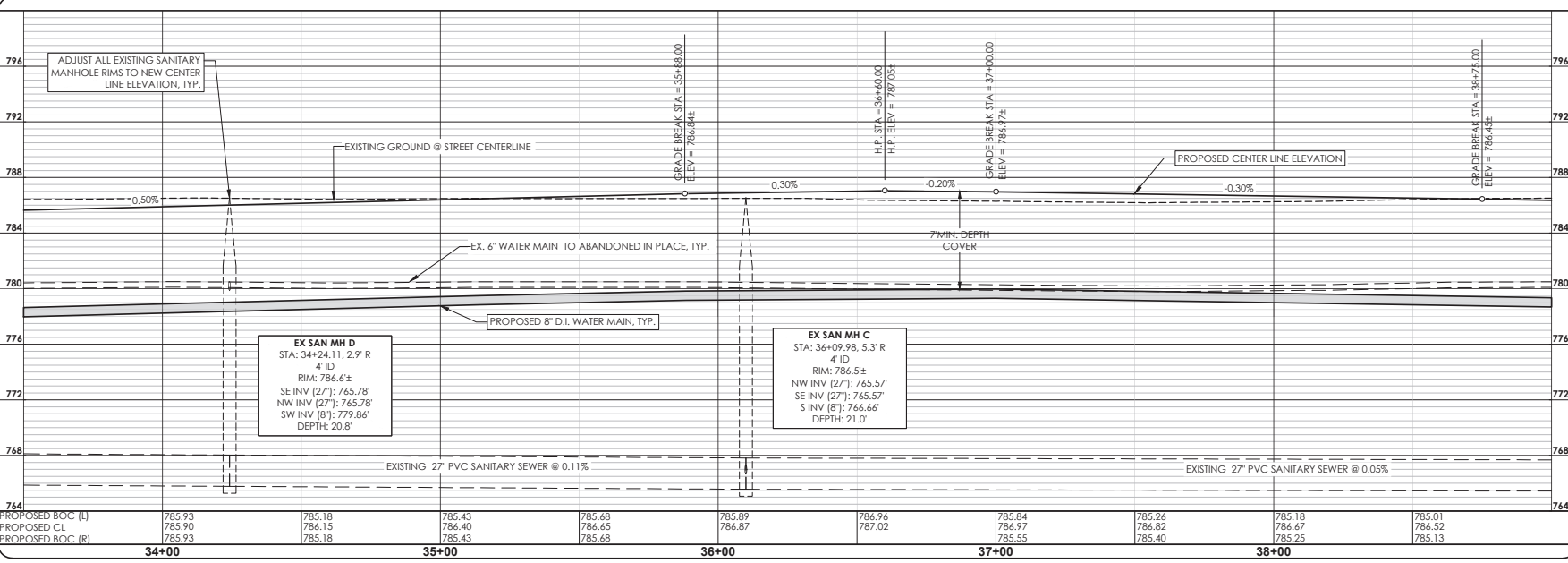
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 ISSUE DATE: OCT. 2019  
 GEC FILE NO: 2-0119-1B  
 SHEET NO.

**C2.1**



**BACK OF CURB ELEVATION TABLE**

NO.	RECY.	NO.	ELEV.	NO.	ELEV.
1	785.53	3	785.22	5	785.94
2	784.93	4	785.27	6	785.62



**EX SAN MH D**  
 STA: 34+24.11, 2.9' R  
 4' ID  
 RIM: 786.6±  
 SE INV (27'): 765.78'  
 NW INV (27'): 765.78'  
 SW INV (8'): 779.86'  
 DEPTH: 20.8'

**EX SAN MH C**  
 STA: 36+09.98, 5.3' R  
 4' ID  
 RIM: 786.5±  
 NW INV (27'): 765.57'  
 SE INV (27'): 765.57'  
 S INV (8'): 766.66'  
 DEPTH: 21.0'

Station	Proposed BOC (L)	Proposed CL	Proposed BOC (R)
34+00	785.93	785.90	785.93
35+00	785.18	784.15	785.18
36+00	785.43	784.40	785.43
37+00	785.68	784.65	785.68
38+00	785.89	784.87	785.89
39+00	786.94	787.02	786.94
34+00	785.24	786.82	785.24
35+00	785.18	786.67	785.18
36+00	785.25	786.25	785.25
37+00	785.01	786.52	785.01
38+00	785.13	786.13	785.13

NOTES:

1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. ALL GENERAL NOTES FOUND ON SHEET G.1.1.
3. (TBR) - TO BE REMOVED

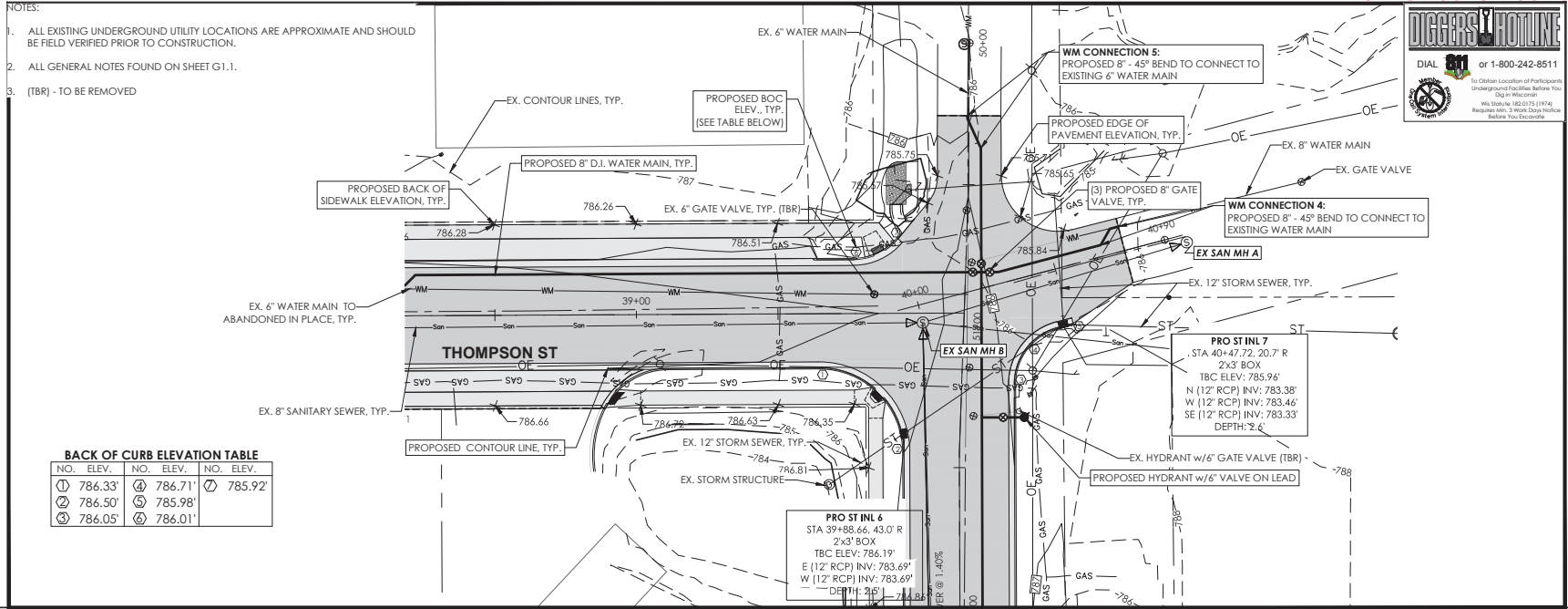


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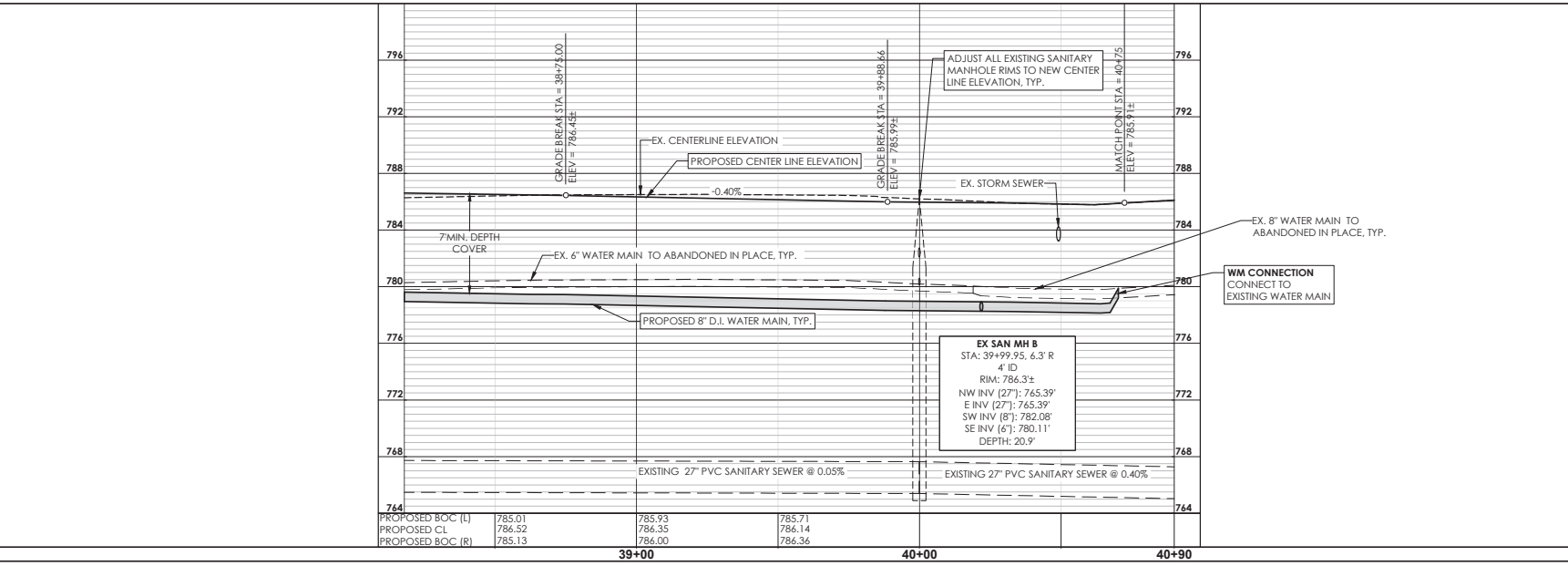
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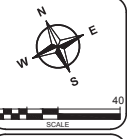
**BACK OF CURB ELEVATION TABLE**

NO.	ELEV.	NO.	ELEV.	NO.	ELEV.
①	786.33'	④	786.71'	⑦	785.92'
②	786.50'	⑤	785.98'		
③	786.05'	⑥	786.01'		



**PLAN & PROFILE**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 1A - THOMPSON ST.**  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI

NO.	BY	DATE	REVISIONS	
			NO.	DESCRIPTION



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ISSUE DATE	OCT. 2019
GEC FILE NO.	2-0119-1B
SHEET NO.	

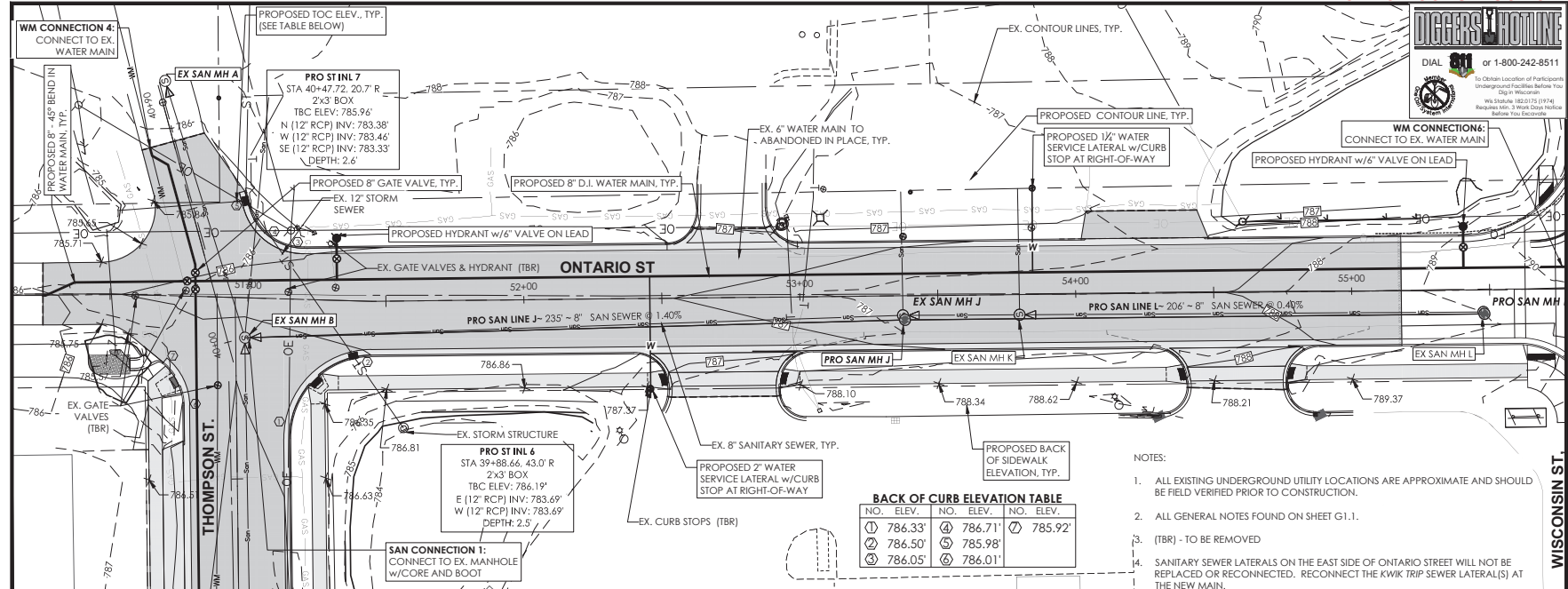
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To Obtain Location of Participants Underground Facilities Before You Dig in Wisconsin  
 Wis. Statute 182.0175 (1)(7)  
 Register with the Wisconsin State Register Before You Excavate

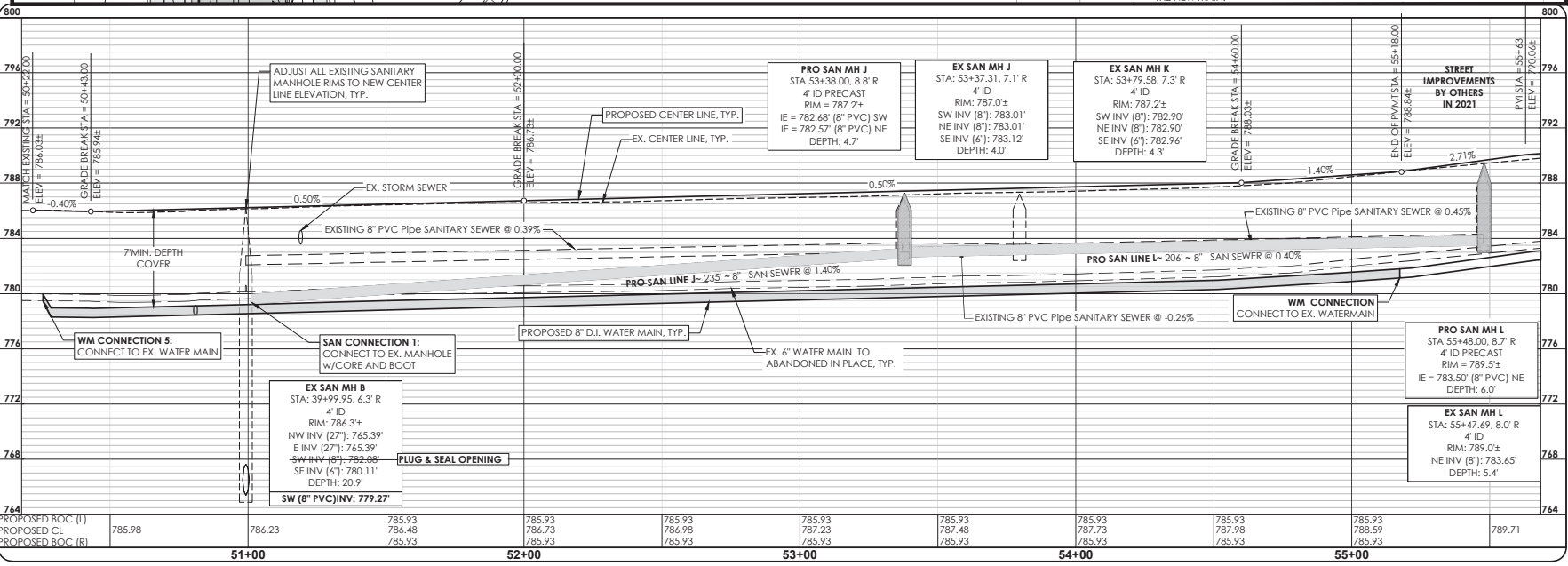
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NO.	ELEV.	NO.	ELEV.	NO.	ELEV.
①	786.33'	④	786.71'	⑦	785.92'
②	786.50'	⑤	785.98'		
③	786.05'	⑥	786.01'		

- NOTES:
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  3. (TBR) - TO BE REMOVED
  4. SANITARY SEWER LATERALS ON THE EAST SIDE OF ONTARIO STREET WILL NOT BE REPLACED OR RECONNECTED. RECONNECT THE KWIK TRIP WATER LATERAL(S) AT THE NEW MAIN.



**PLAN & PROFILE**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 1B - ONTARIO ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

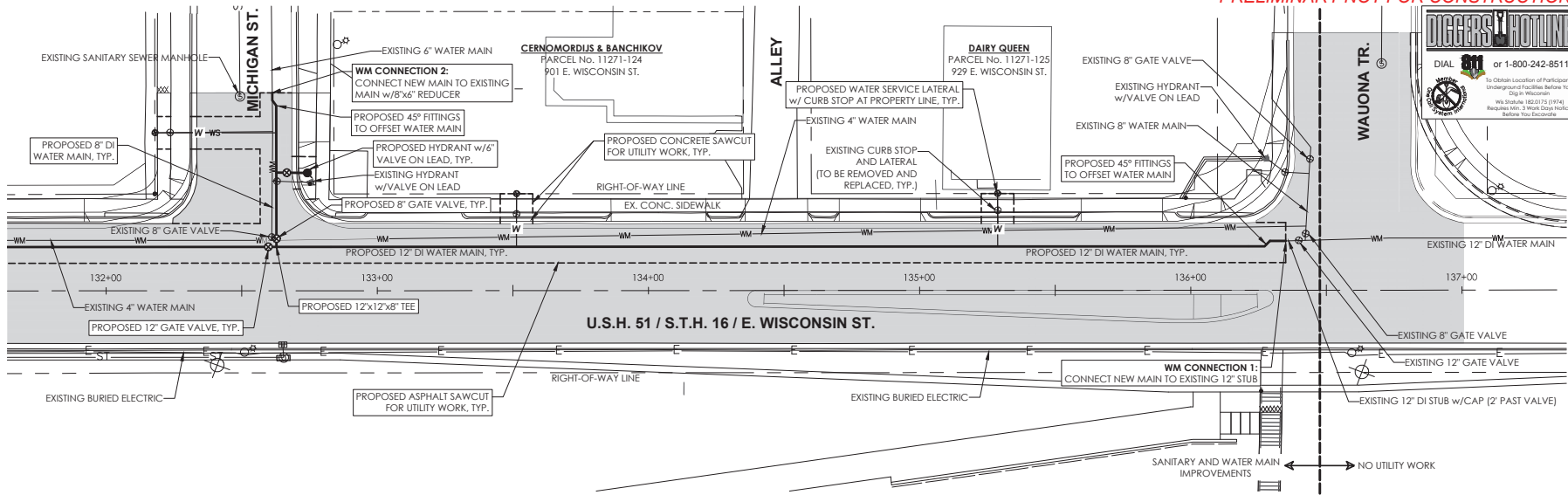
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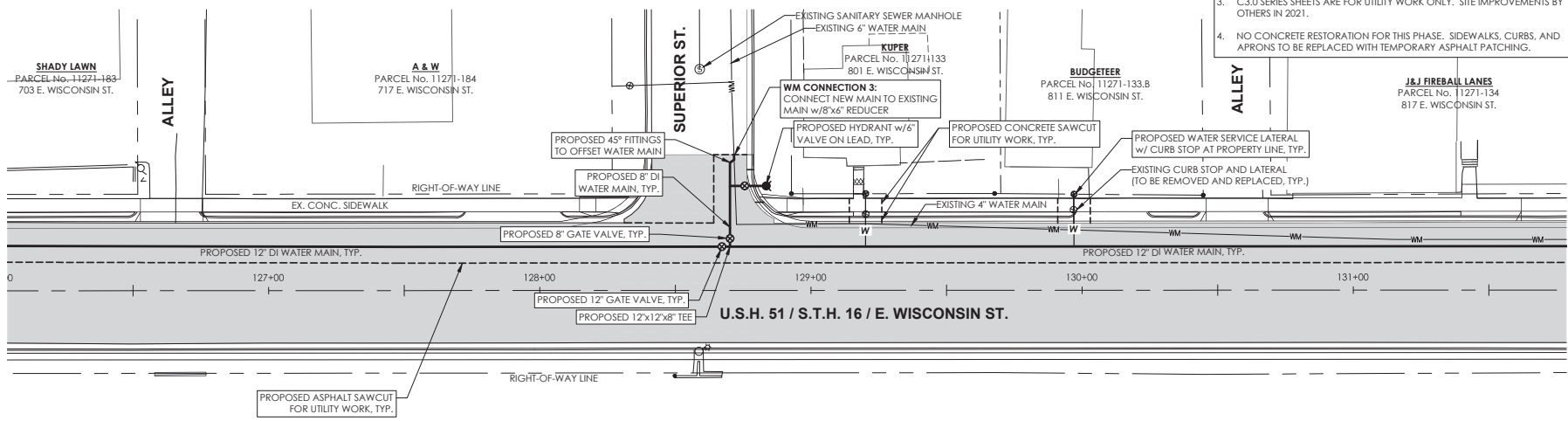
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 ISSUE DATE: OCT. 2019  
 GEC FILE NO: 2-0119-1B  
 SHEET NO.



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1 PLAN VIEW (STA: 131+70 - 136+50)  
SCALE: AS SHOWN



2 PLAN VIEW (STA: 126+10 - 131+70)  
SCALE: AS SHOWN

- NOTES:
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  2. ALL GENERAL NOTES FOUND ON SHEET G.1.1.
  3. C.3.0 SERIES SHEETS ARE FOR UTILITY WORK ONLY. SITE IMPROVEMENTS BY OTHERS IN 2021.
  4. NO CONCRETE RESTORATION FOR THIS PHASE. SIDEWALKS, CURBS, AND APRONS TO BE REPLACED WITH TEMPORARY ASPHALT PATCHING.

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**GEC**

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STREET & UTILITY IMPROVEMENTS  
WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PHASE 2  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI**

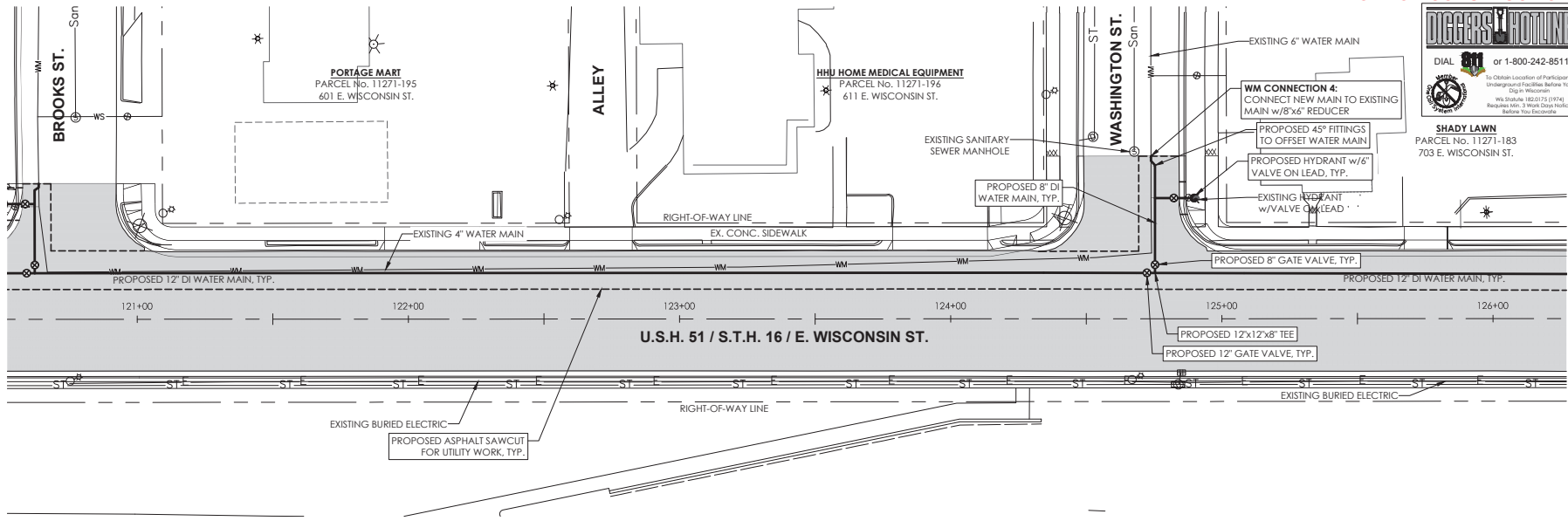
REVISIONS	NO.	BY	DATE



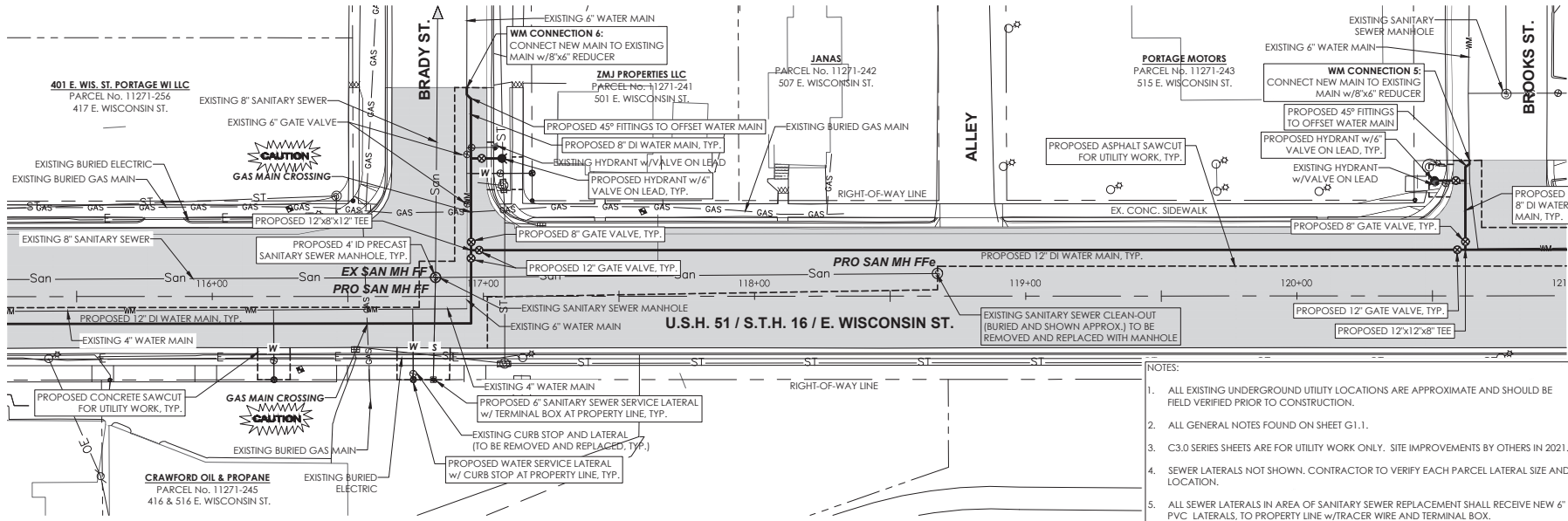
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REVIEWED BY: KDA  
ISSUE DATE: OCT. 2019  
GEC FILE NO.: 2-0119-1B  
SHEET NO.: **C3.1**

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PRELIMINARY NOT FOR CONSTRUCTION



1 PLAN VIEW (STA: 120+90 - 126+10)  
SCALE: AS SHOWN



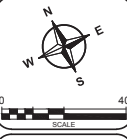
2 PLAN VIEW (STA: 115+40 - 120+90)  
SCALE: AS SHOWN

- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. C3.0 SERIES SHEETS ARE FOR UTILITY WORK ONLY. SITE IMPROVEMENTS BY OTHERS IN 2021.
  4. SEWER LATERALS NOT IN SHOWN. CONTRACTOR TO VERIFY EACH PARCEL LATERAL SIZE AND LOCATION.
  5. ALL SEWER LATERALS IN AREA OF SANITARY SEWER REPLACEMENT SHALL RECEIVE NEW 6" PVC LATERALS, TO PROPERTY LINE w/ TRACER WIRE AND TERMINAL BOX.
  6. NO CONCRETE RESTORATION FOR THIS PHASE. SIDEWALKS, CURBS, AND APRONS TO BE REPLACED WITH TEMPORARY ASPHALT PATCHING.

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**PROPOSED UTILITY PLAN  
 STREET & UTILITY IMPROVEMENTS  
 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

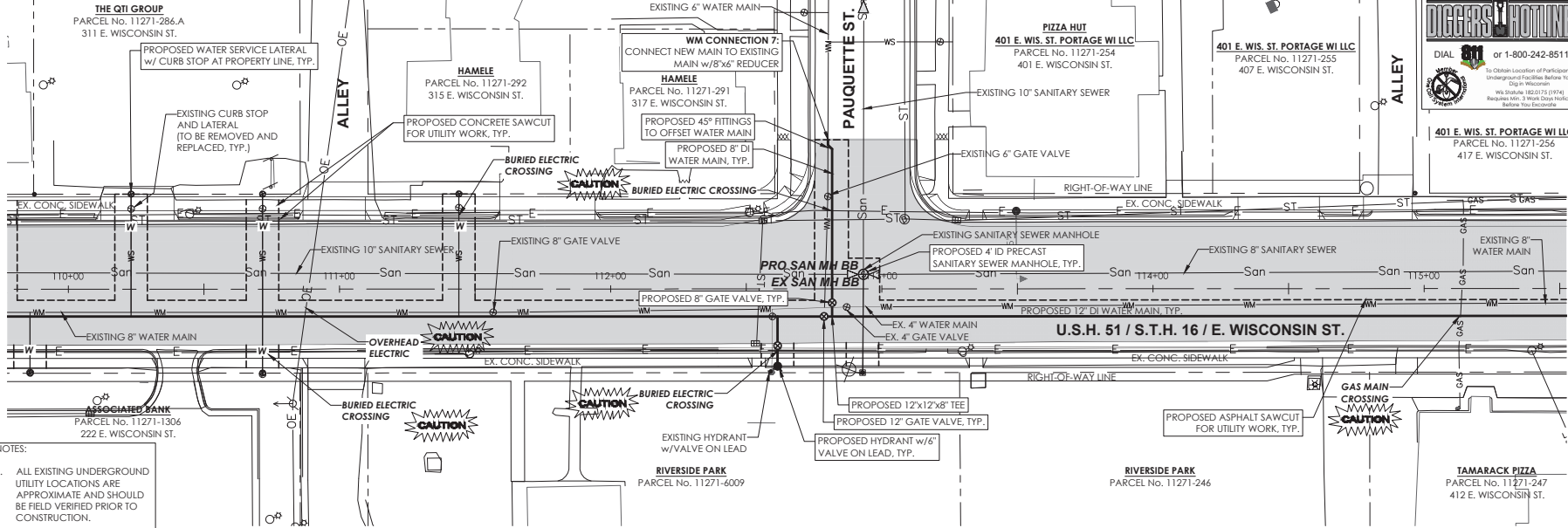
NO.	DATE	BY



DRAWN BY: SRR  
 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO: 2-0119-1B  
 SHEET NO:  
**C3.2**

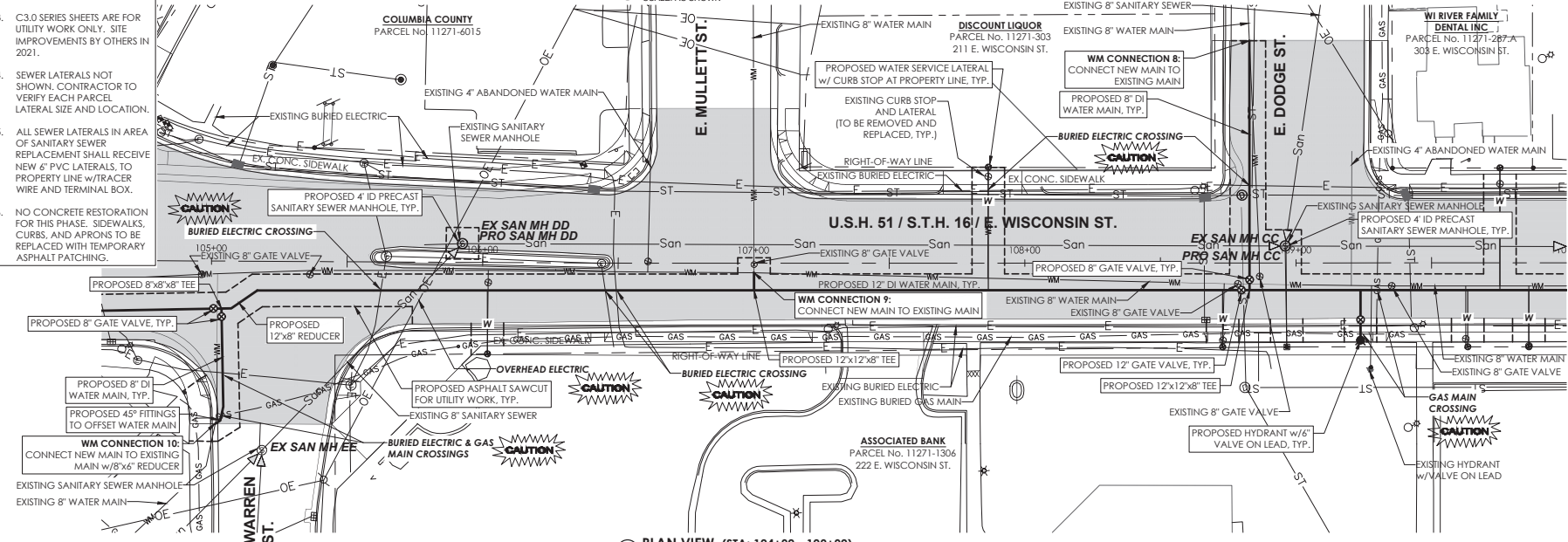
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1 PLAN VIEW (STA: 109+90 - 115+40) SCALE: AS SHOWN



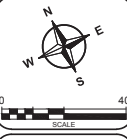
2 PLAN VIEW (STA: 104+90 - 109+90) SCALE: AS SHOWN

**DOG EARS & WHISKERS**  
 DIAL 811 or 1-800-242-8511  
 To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin, We Show You 11775 (11775) Before You Dig. 3 Week Color Markers Before You Excavate.  
 401 E. WIS. ST. PORTAGE WI LLC  
 PARCEL No. 11271-256  
 417 E. WISCONSIN ST.

**GEC**  
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**PROPOSED UTILITY PLAN  
 STREET & UTILITY IMPROVEMENTS  
 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

NO.	BY	DATE



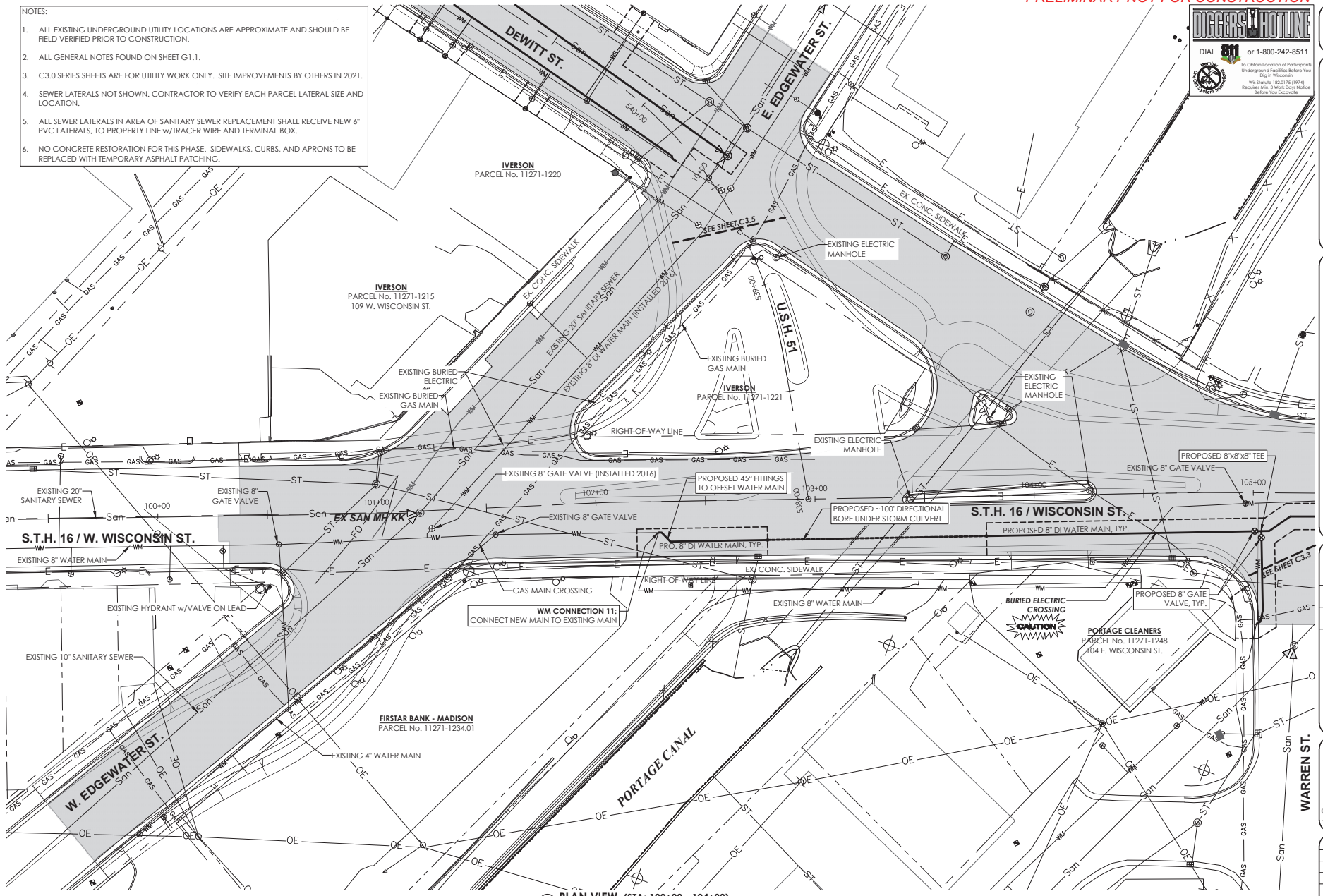
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 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO: 2-0119-1B  
 SHEET NO.

C3.3

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PRELIMINARY NOT FOR CONSTRUCTION

- NOTES:
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**MEASUREMENTS**  
DIAL or 1-800-242-8511  
To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin  
Wis. Statute 102.0715 (1)(4)  
Requires Wis. 3 Year Clear Notice Before You Excavate



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**PROPOSED UTILITY PLAN  
STREET & UTILITY IMPROVEMENTS  
WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PHASE 2  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI**

NO.	BY	DATE



DRAWN BY: SRR  
REVIEWED BY: KDA  
ISSUE DATE: OCT. 2019  
GEC FILE NO.: 2-0119-1B  
SHEET NO.:

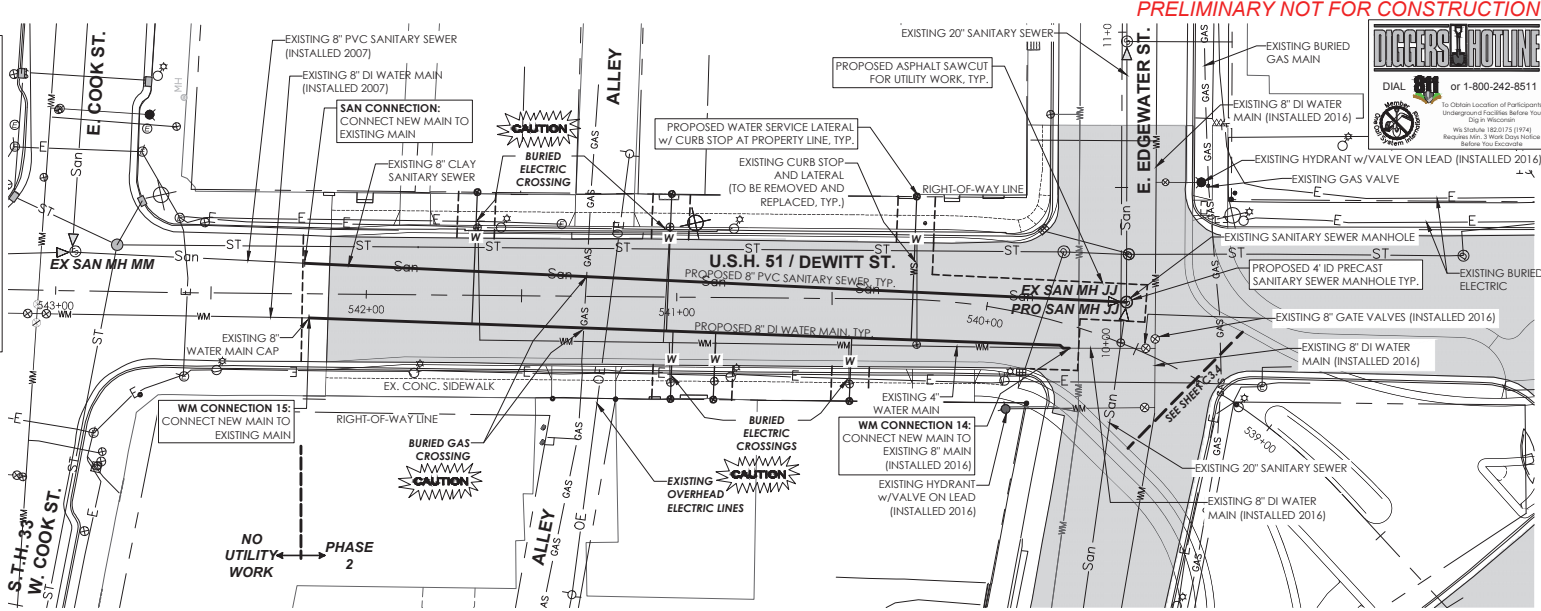
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**1 PLAN VIEW (STA: 100+00 - 104+90)**  
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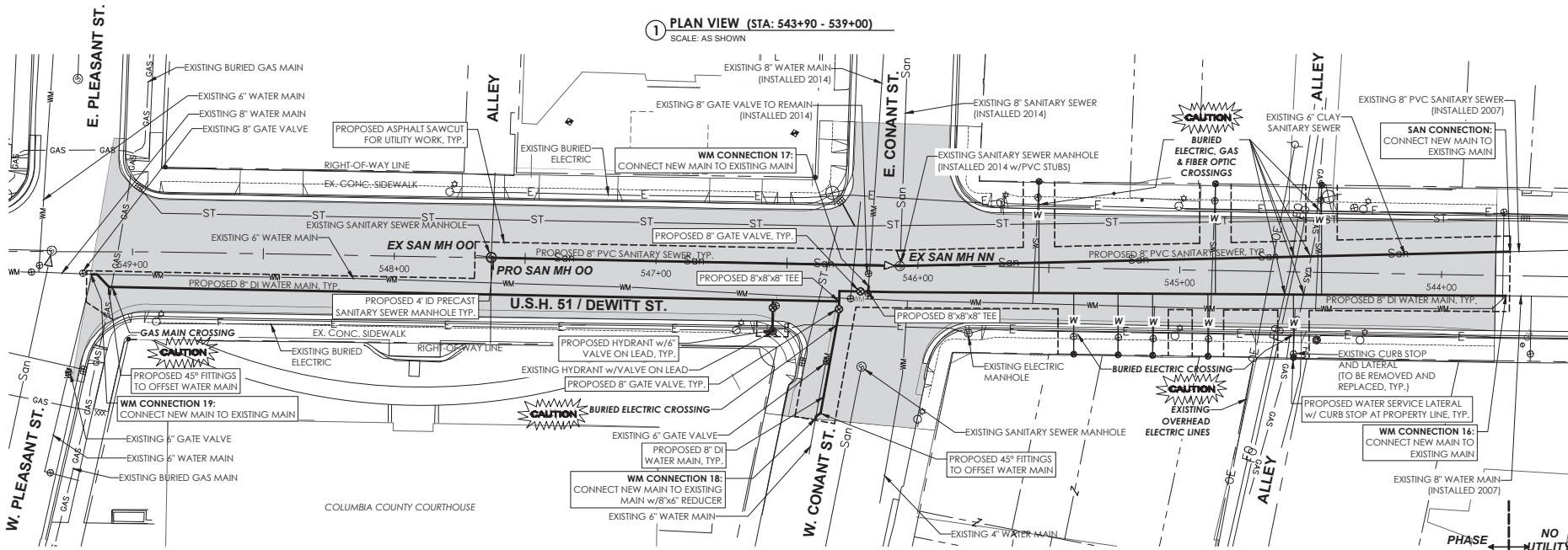
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**1 PLAN VIEW (STA: 543+90 - 539+00)**  
SCALE: AS SHOWN



**2 PLAN VIEW (STA: 549+18 - 543+75)**  
SCALE: AS SHOWN

PRELIMINARY NOT FOR CONSTRUCTION



To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin  
www.dial811wi.com  
Wisconsin 102.07(3) (1978)  
Requires Wis. 3 Hour Course Expires 12/31/2024



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Wisconsin 102.07(3) (1978)  
Requires Wis. 3 Hour Course Expires 12/31/2024

**PROPOSED UTILITY PLAN**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 2**  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI

REVISIONS	NO.	BY	DATE



DRAWN BY SRR  
REVIEWED BY KDA  
ISSUE DATE OCT. 2019  
GEC FILE NO. 2-0119-1B  
SHEET NO.

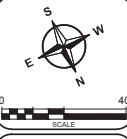
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**PHASE 2**  
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NO.	BY	DATE

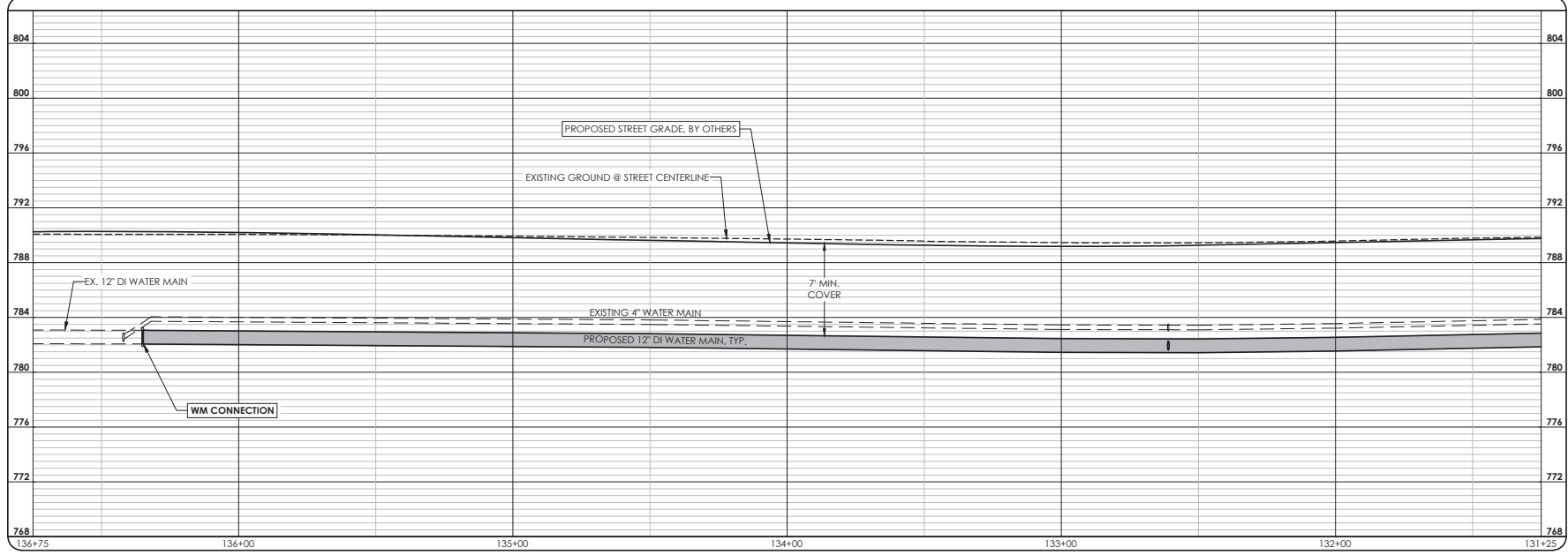
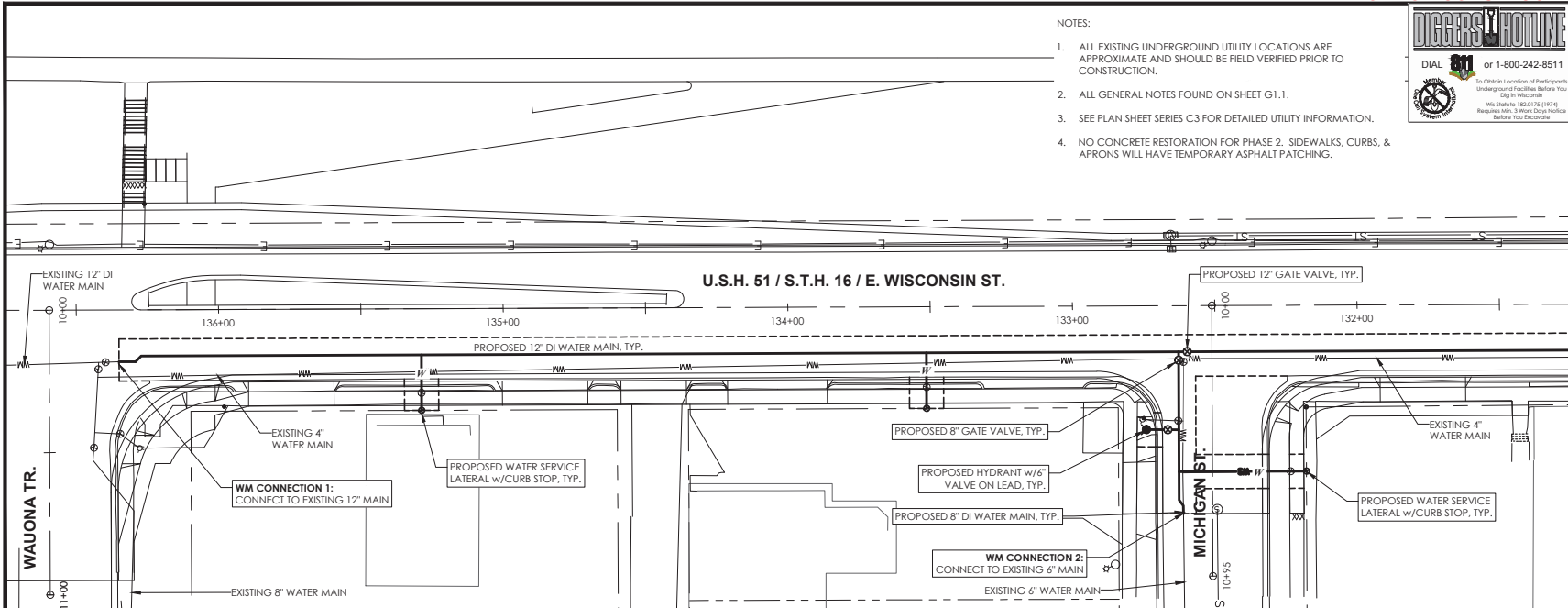


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ISSUE DATE	OCT. 2019
GEC FILE NO.	2-0119-1B
SHEET NO.	C4.0

- NOTES:
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  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. SEE PLAN SHEET SERIES C3 FOR DETAILED UTILITY INFORMATION.
  4. NO CONCRETE RESTORATION FOR PHASE 2. SIDEWALKS, CURBS, & APRONS WILL HAVE TEMPORARY ASPHALT PATCHING.

**DIGGERS' NOTICE**  
 DIAL 811 or 1-800-242-8511  
 To Obtain Location of Participants, Underground Facilities Before You Dig - It's the Smart Way!  
 Wis. Statute § 102.075 (1)(7) Requires that 3 days' Advance Notice be given to Participants Before You Excavate

SEE SHEET: C4.1



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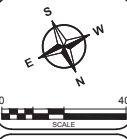
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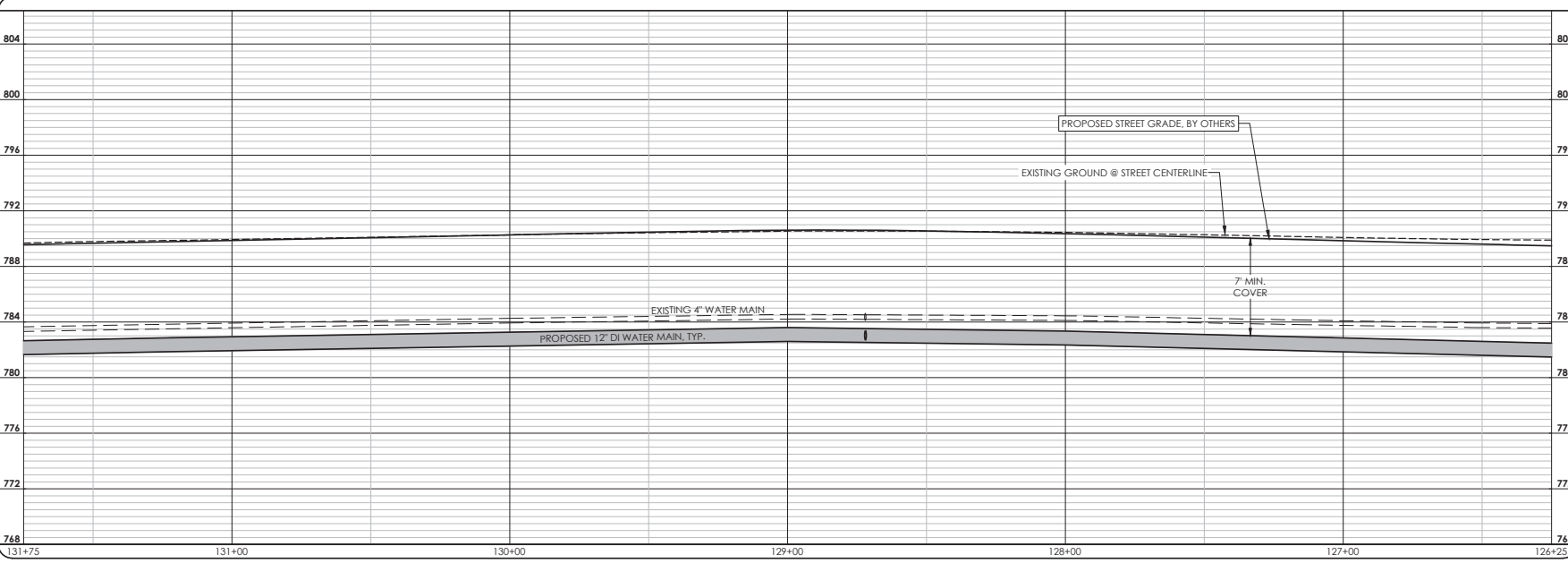
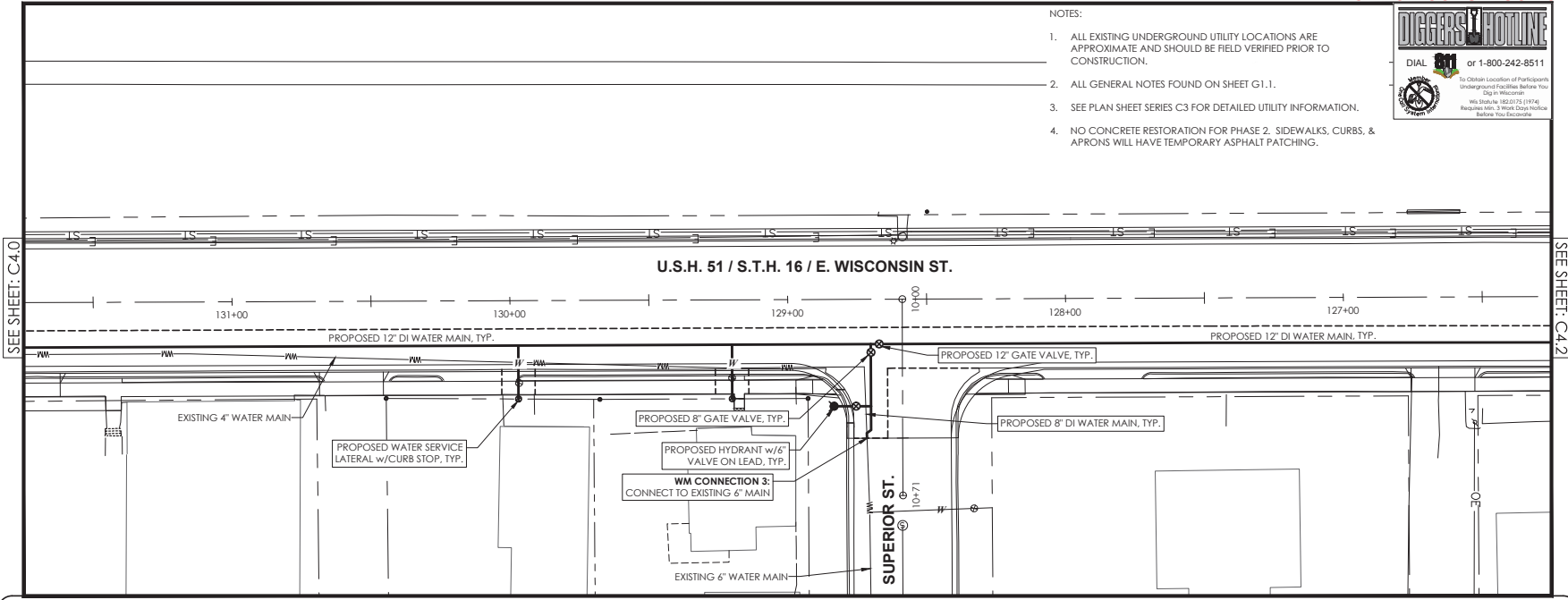
**PLAN & PROFILE**  
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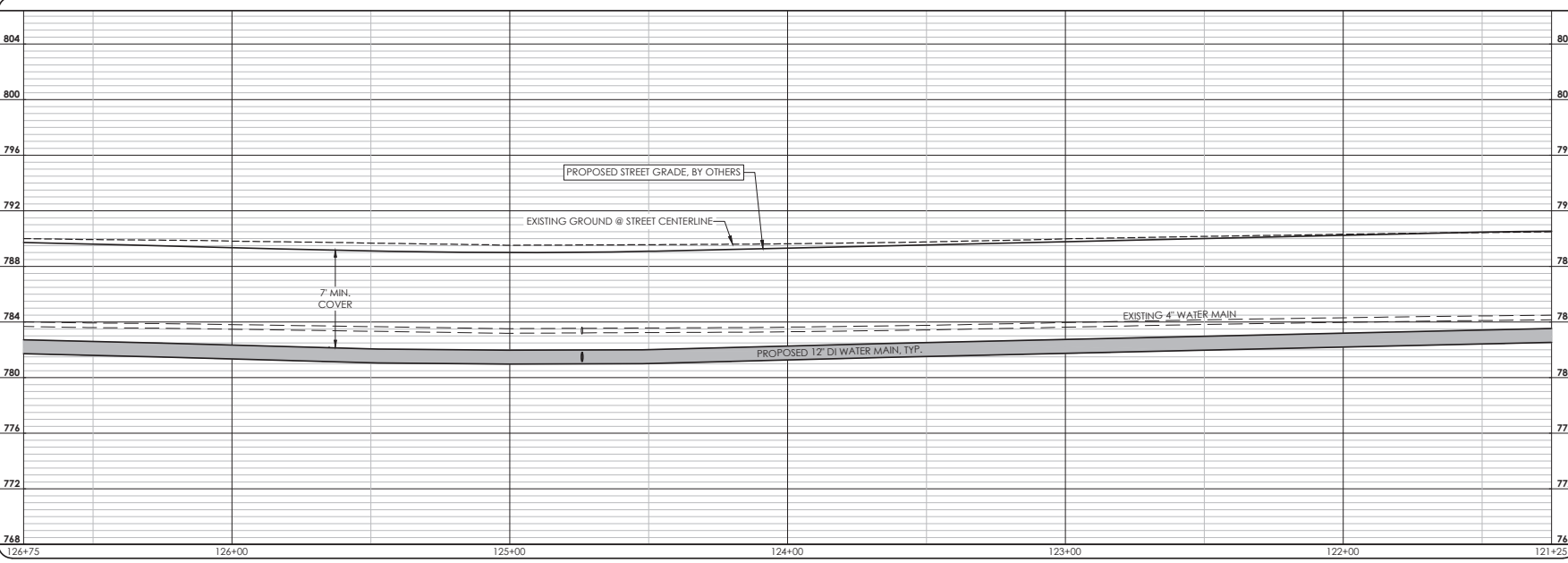
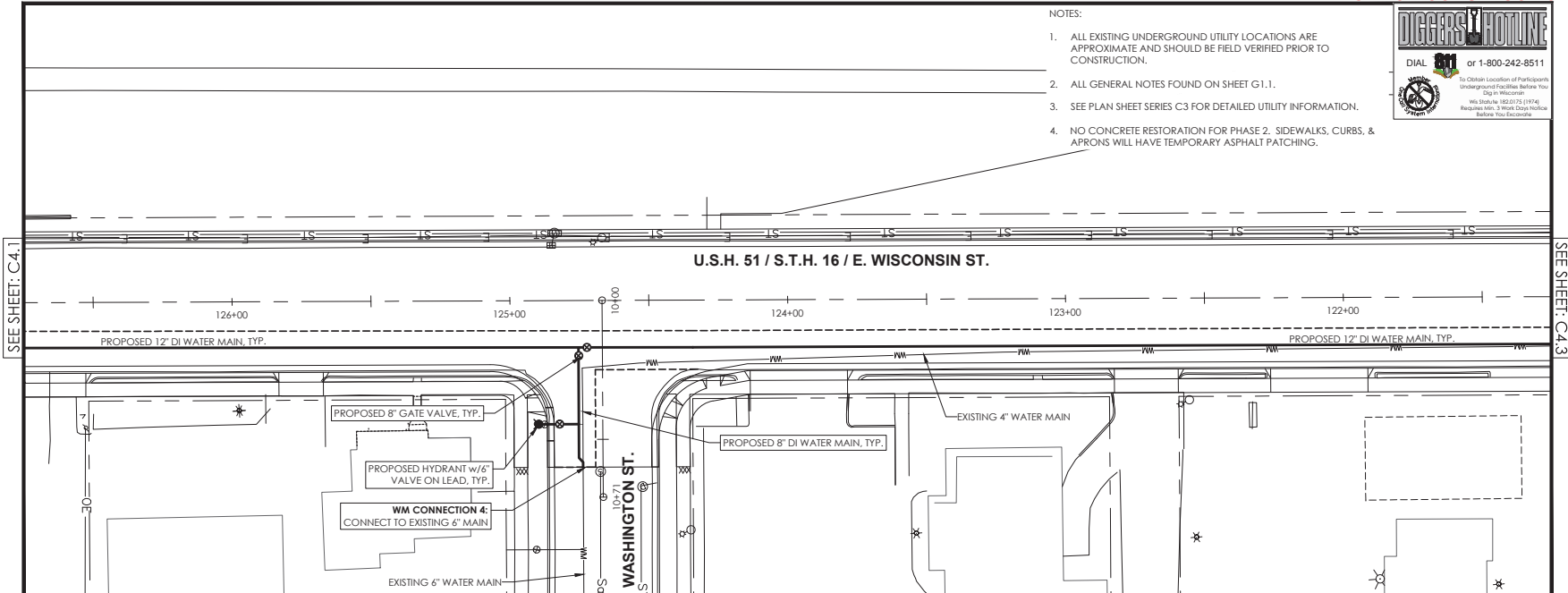
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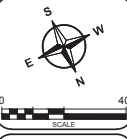
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 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

NO.	BY	DATE



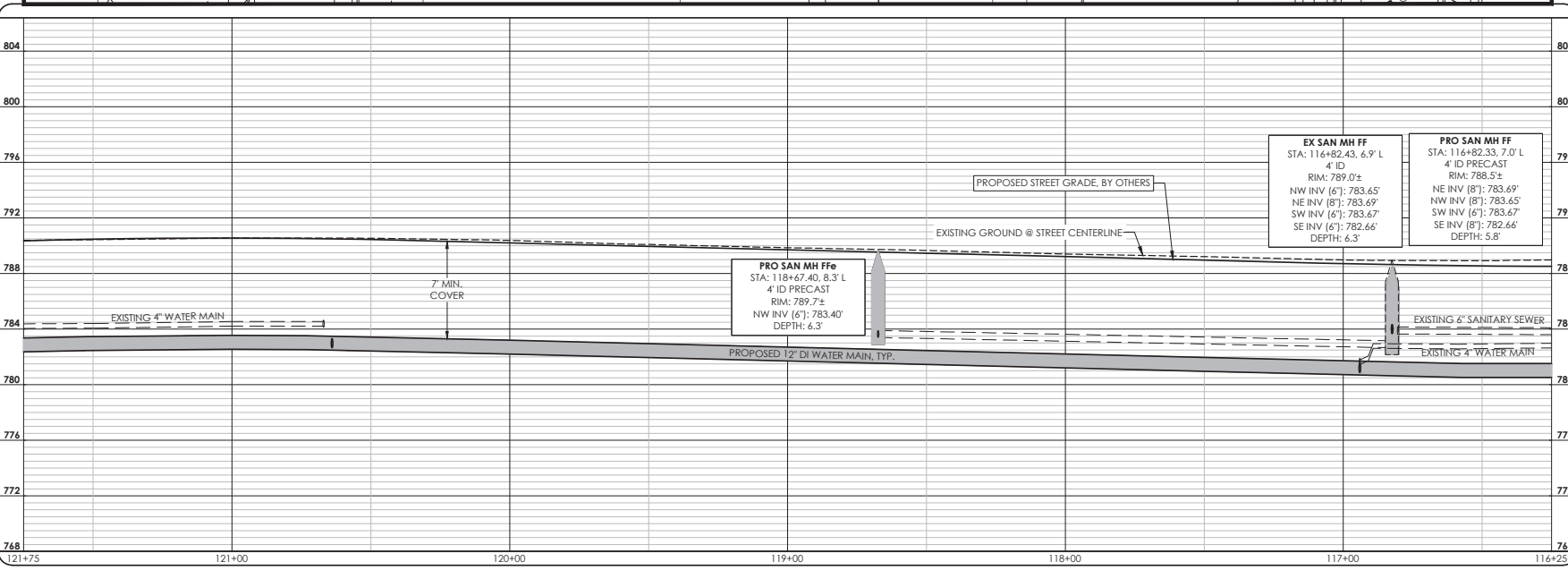
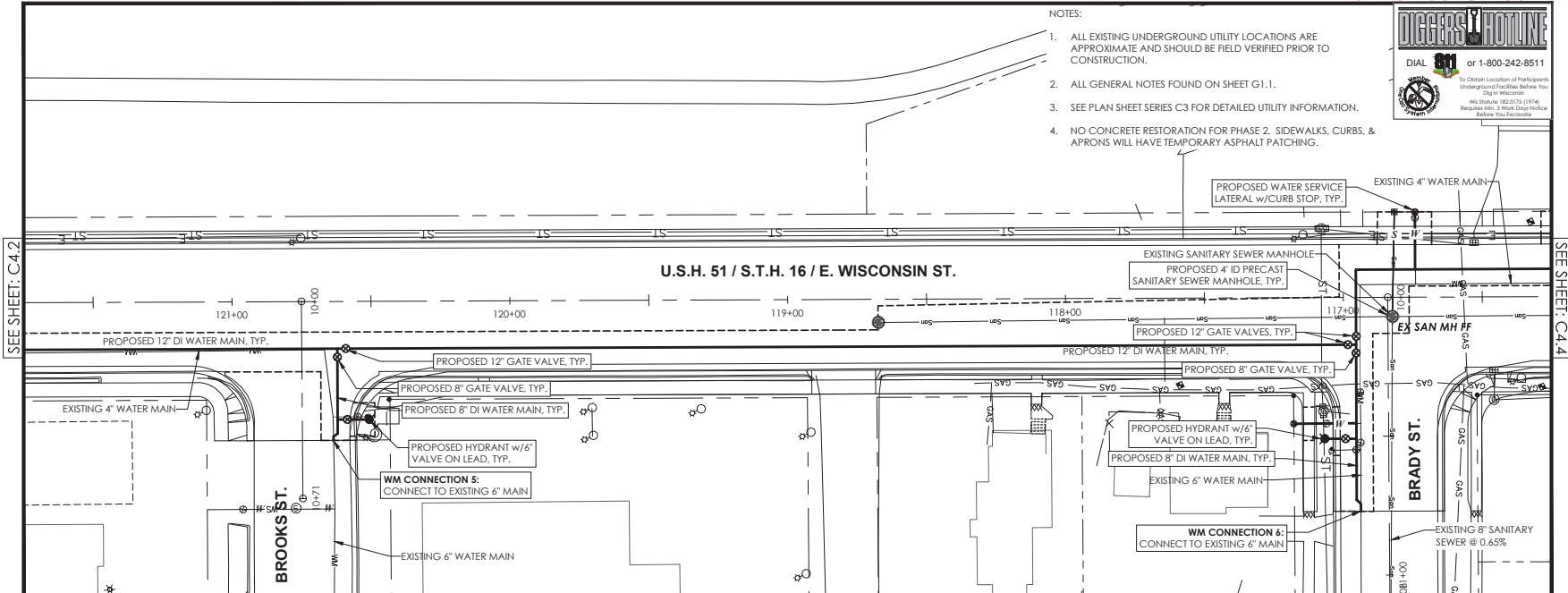
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 GEC FILE NO.: 2-0119-1B  
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 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

NO.	DATE	BY

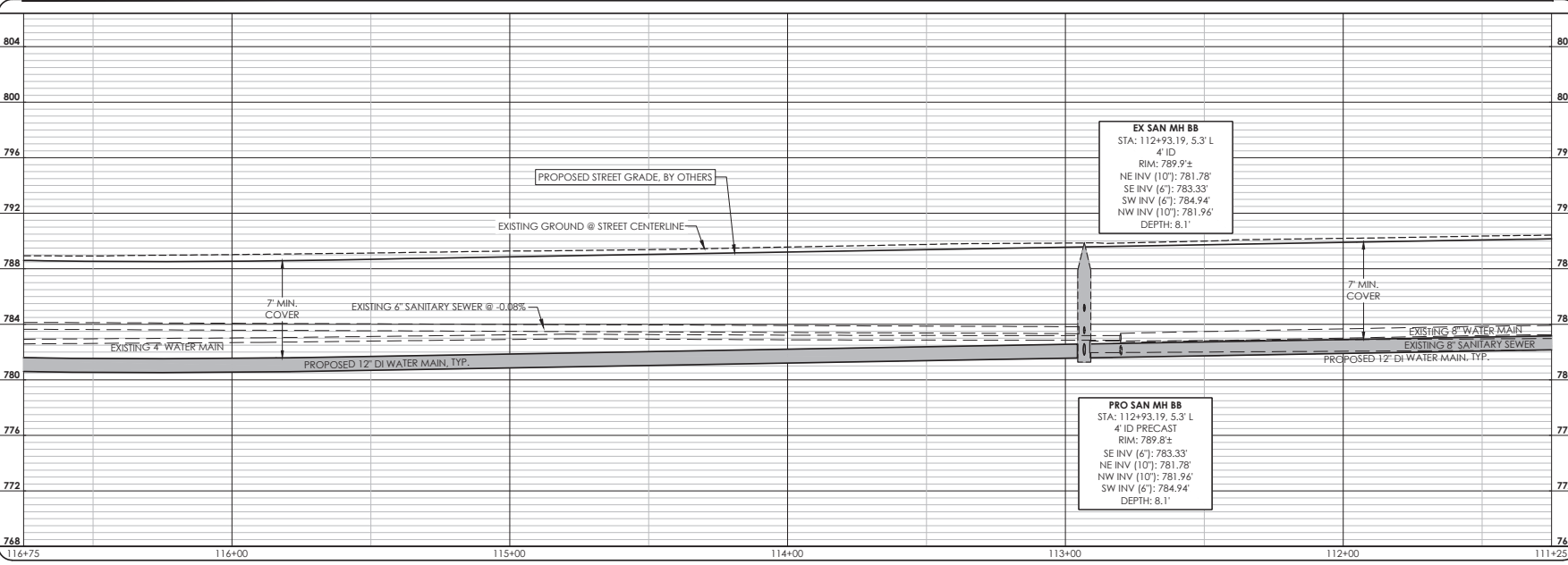
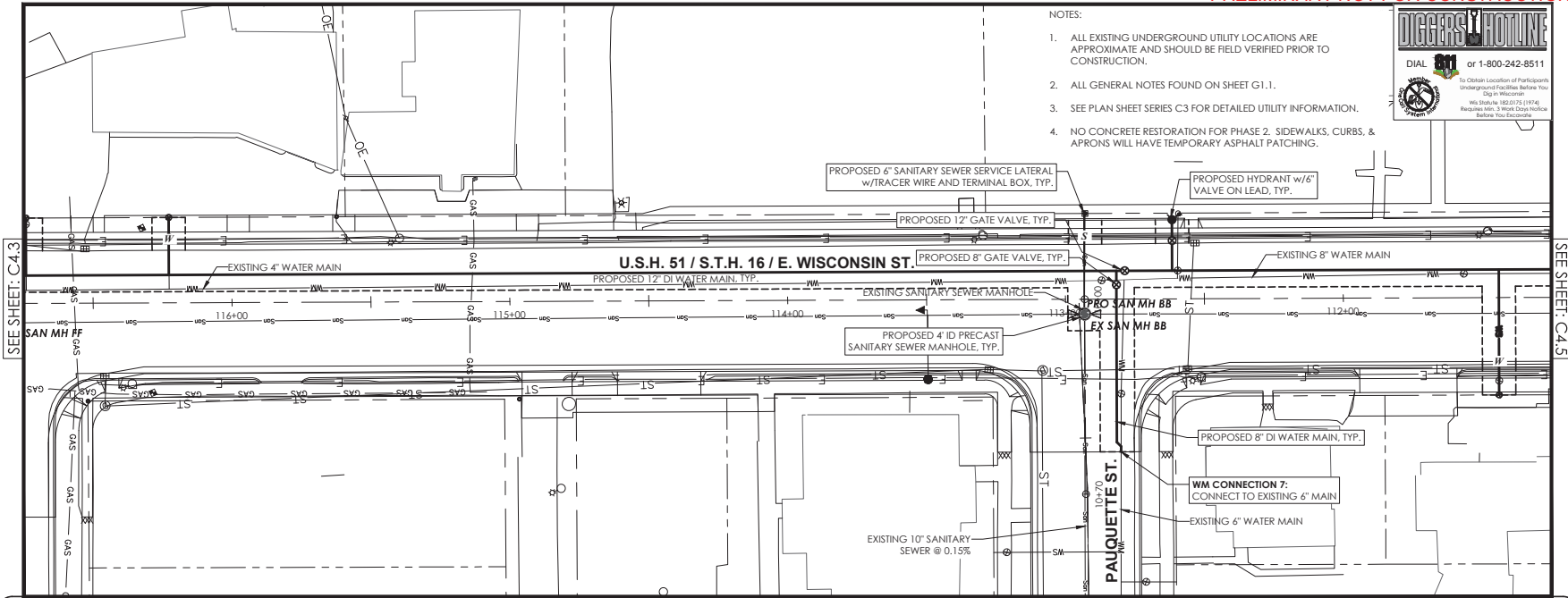


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 SHEET NO. **C4.3**

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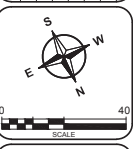
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**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 2**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE



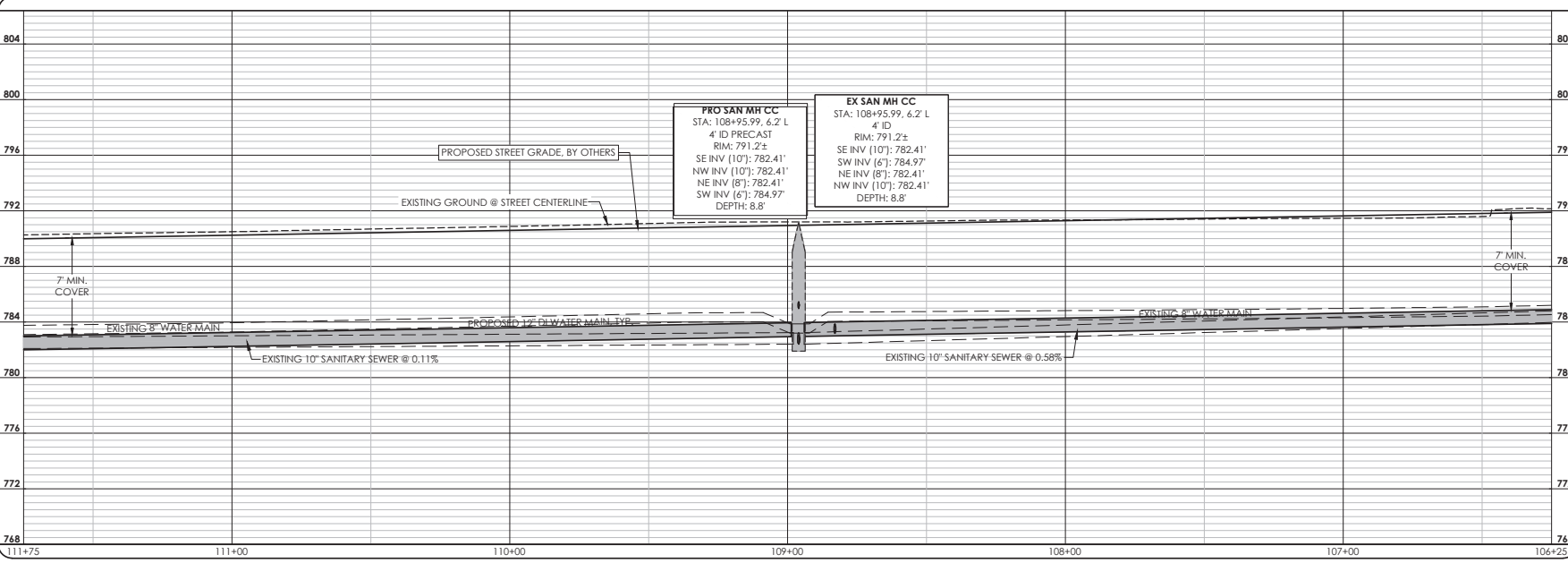
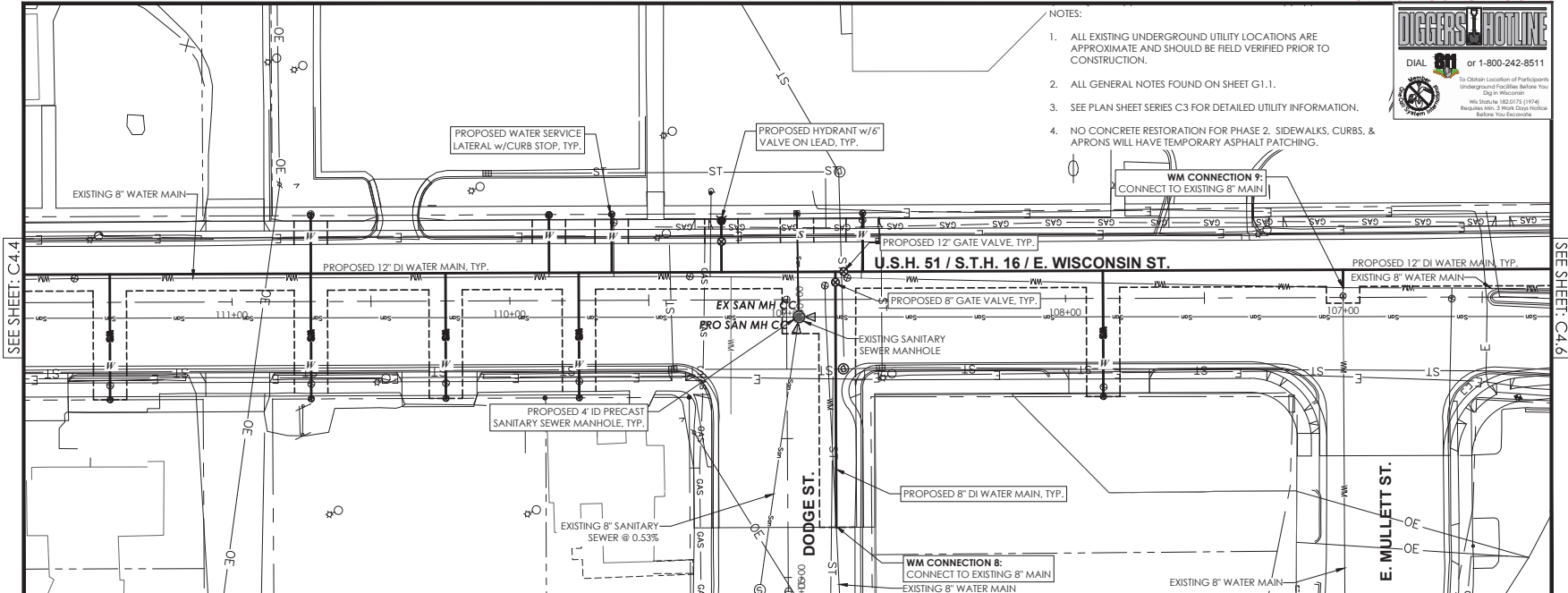
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 SHEET NO.: **C4.4**

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PRELIMINARY NOT FOR CONSTRUCTION

**DIGGERS' NOTICE**  
 DIAL 811 or 1-800-242-8511  
 To Obtain Location of Participants, Underground Facilities Before You Dig or Excavate!  
 Wis. Statute 102.075 (1)(4)  
 Requires 811, 3 Days, 24 Hours Before You Excavate!

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**PRO SAN MH CC**  
 STA: 108+95.99, 6.2' L  
 4' ID PRECAST  
 RIM: 791.2±  
 SE INV (10'): 782.41'  
 NW INV (10'): 782.41'  
 NE INV (8'): 782.41'  
 SW INV (6'): 784.97'  
 DEPTH: 8.8'

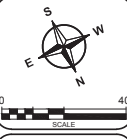
**EX SAN MH CC**  
 STA: 108+95.99, 6.2' L  
 4' ID  
 RIM: 791.2±  
 SE INV (10'): 782.41'  
 SW INV (6'): 784.97'  
 NE INV (8'): 782.41'  
 NW INV (10'): 782.41'  
 DEPTH: 8.8'



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**PLAN & PROFILE  
 STREET & UTILITY IMPROVEMENTS  
 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

NO.	BY	DATE

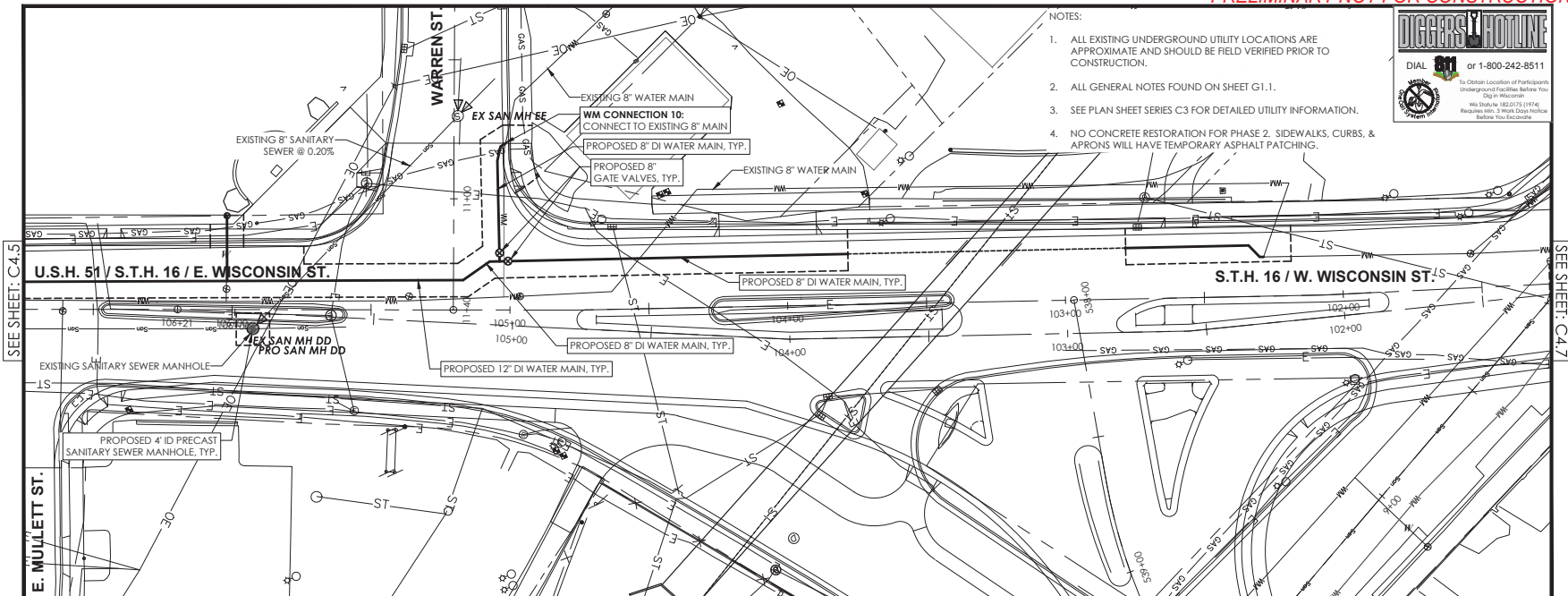


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 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO.: 2-0119-1B  
 SHEET NO.: **C4.5**

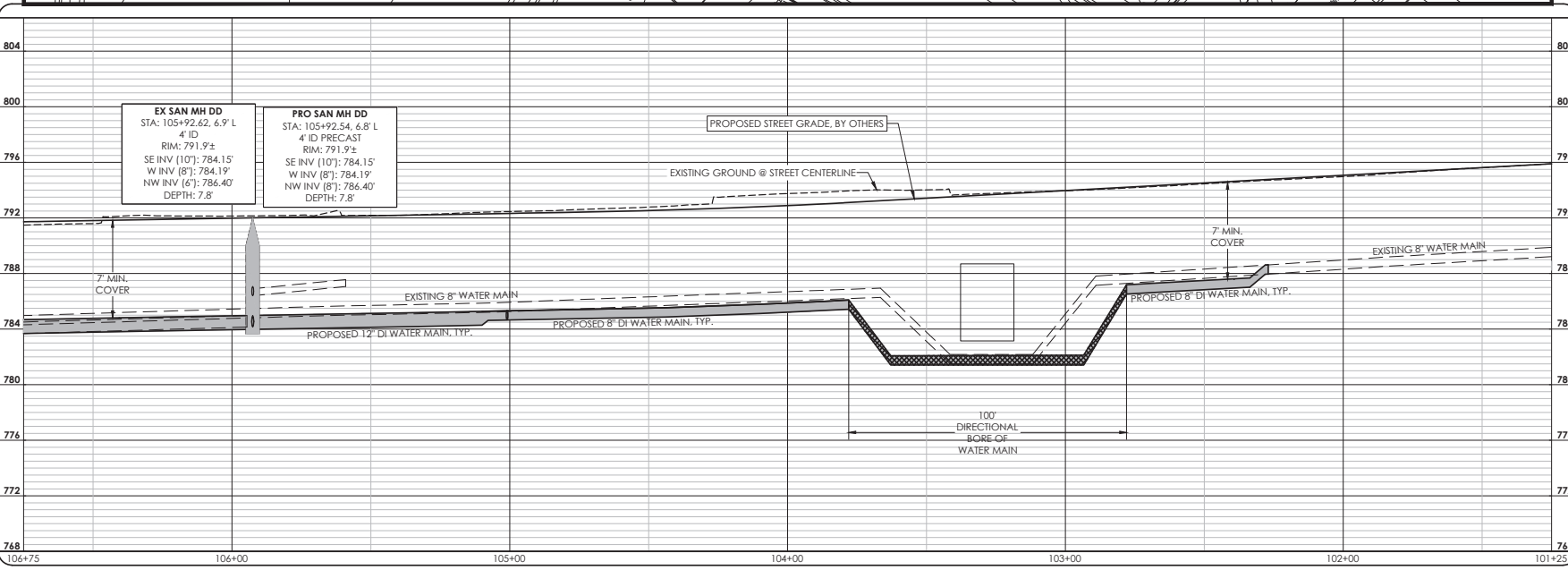


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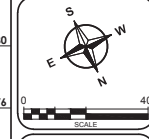
**PLAN & PROFILE**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 2**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI



- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. SEE PLAN SHEET SERIES C3 FOR DETAILED UTILITY INFORMATION.
  4. NO CONCRETE RESTORATION FOR PHASE 2. SIDEWALKS, CURBS, & APRONS WILL HAVE TEMPORARY ASPHALT PATCHING.



NO.	BY	DATE

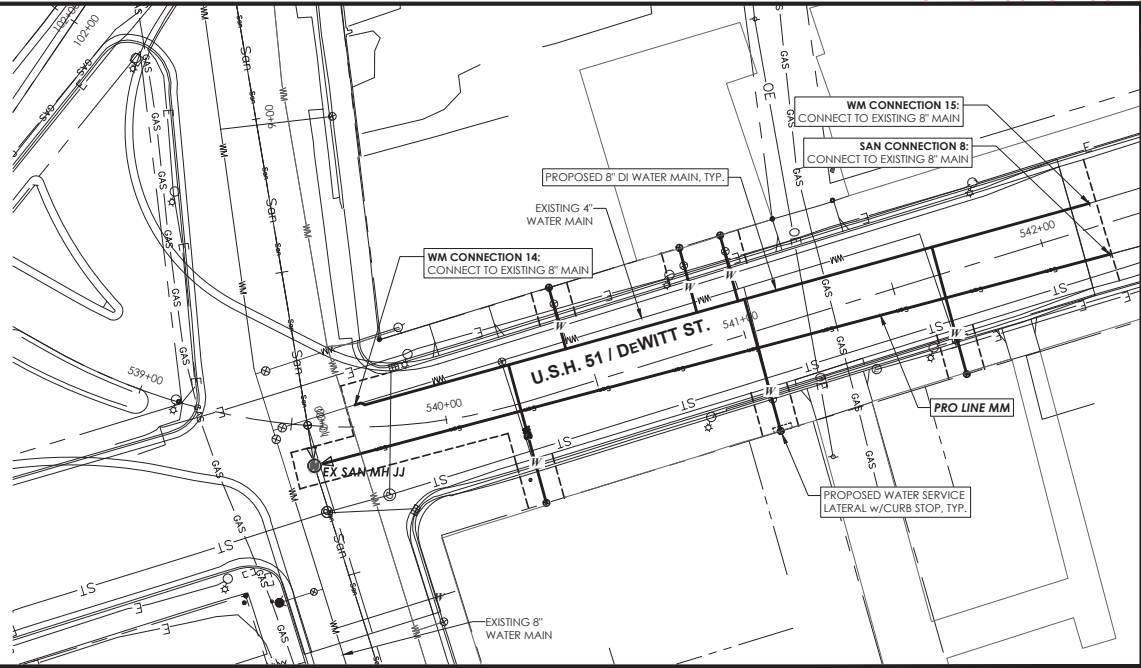


DRAWN BY	SRR
REVIEWED BY	KDA
ISSUE DATE	OCT. 2019
GEC FILE NO.	2-0119-1B
SHEET NO.	

**C4.6**

NOTES:

1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
3. STATIONING RUNS WEST TO EAST. \*\*PROFILE FOLLOWS ALIGNMENT IN REVERSE.\*\*
4. SEE PLAN SHEET SERIES C3 FOR DETAILED UTILITY INFORMATION.

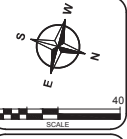


SEE SHEET: C4.8

**GEC**  
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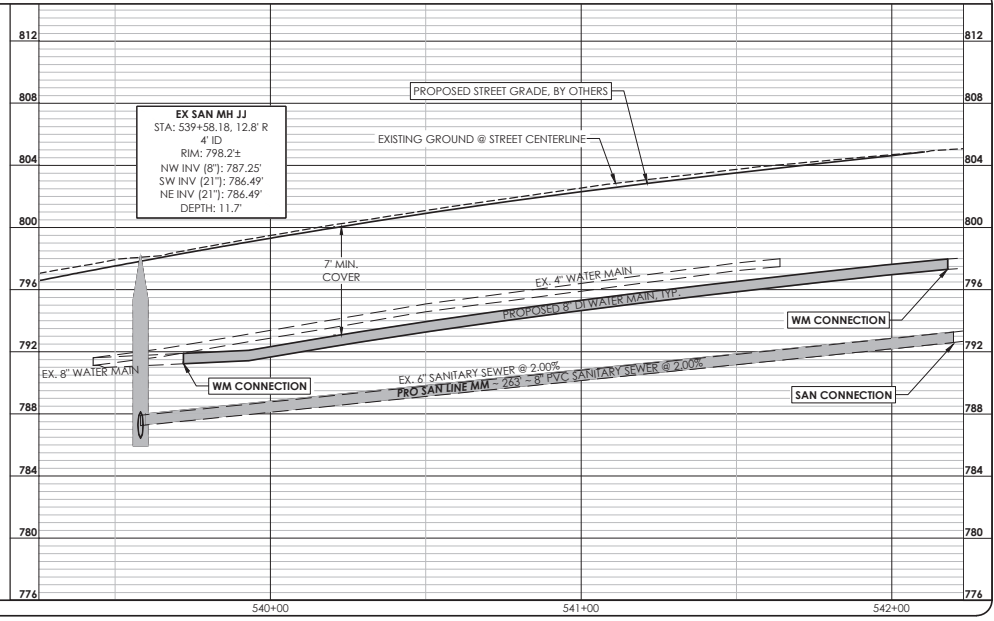
**PLAN & PROFILE**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
**PHASE 2**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	BY	DATE

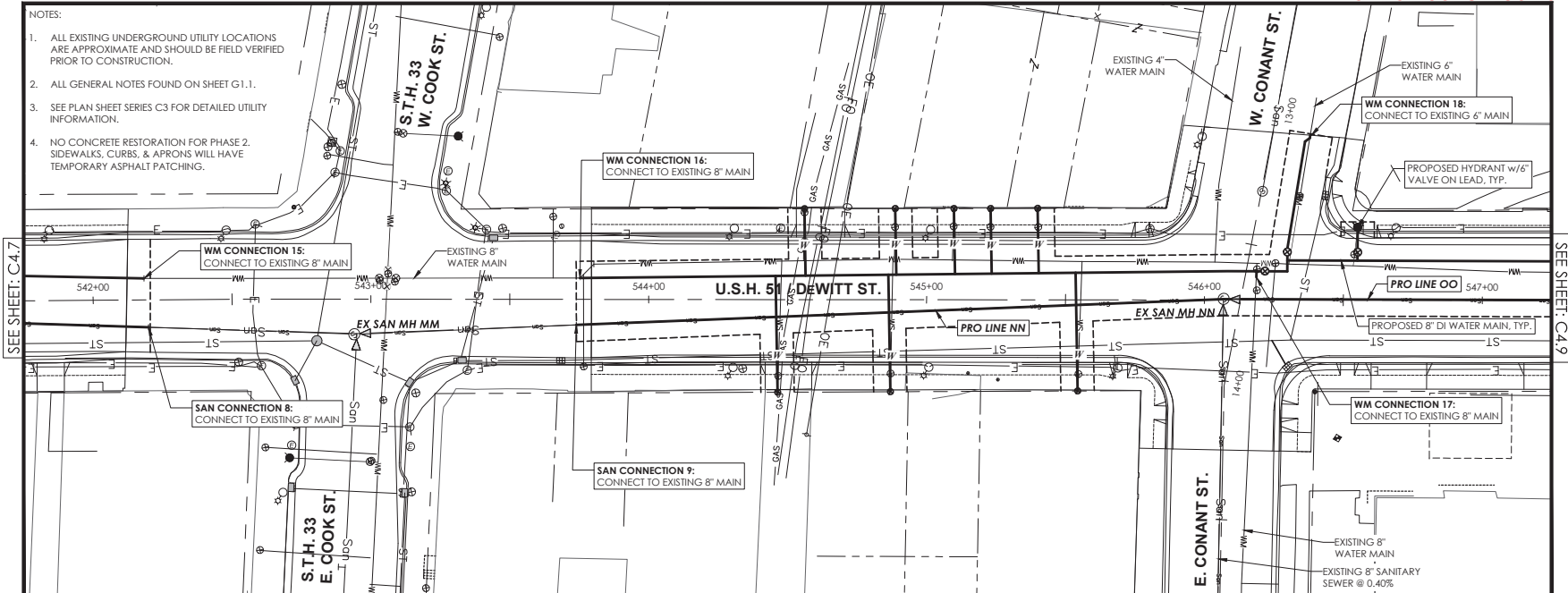


DRAWN BY: SRR  
 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO.: 2-0119-1B  
 SHEET NO.:

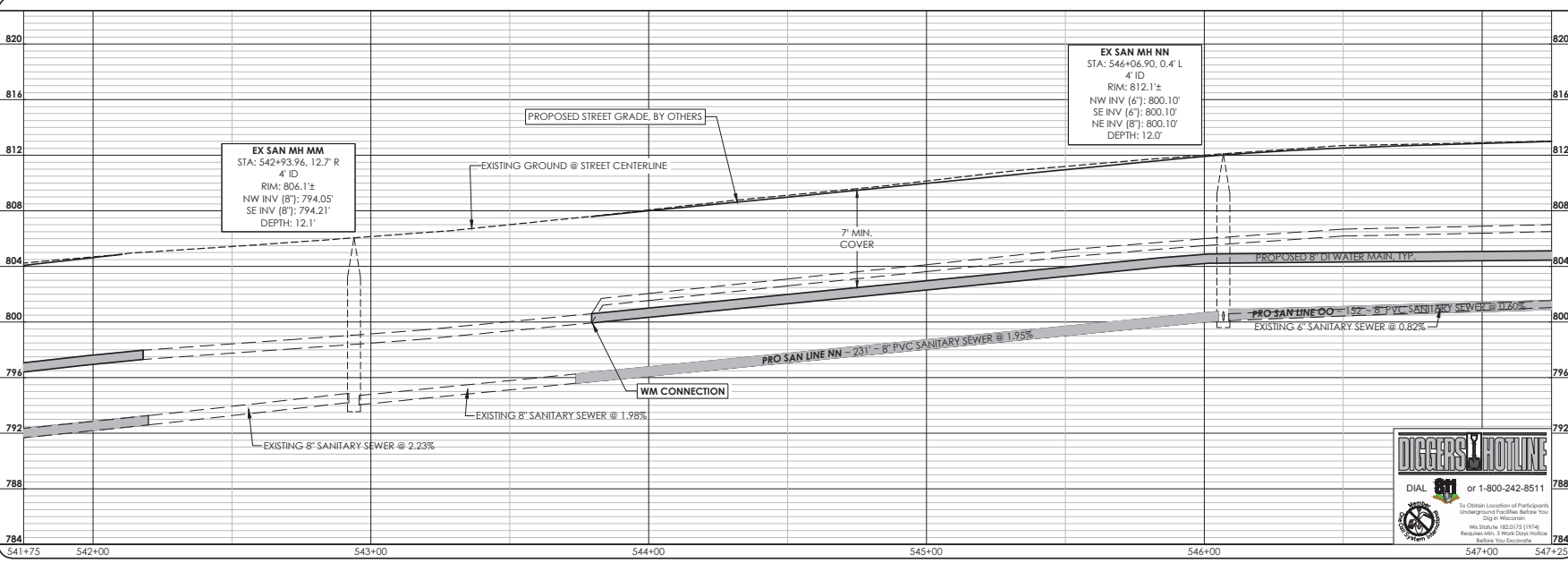
**C4.7**



PRELIMINARY NOT FOR CONSTRUCTION



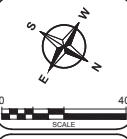
- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. SEE PLAN SHEET SERIES C3 FOR DETAILED UTILITY INFORMATION.
  4. NO CONCRETE RESTORATION FOR PHASE 2. SIDEWALKS, CURBS, & APRONS WILL HAVE TEMPORARY ASPHALT PATCHING.



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**PLAN & PROFILE  
 STREET & UTILITY IMPROVEMENTS  
 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 PHASE 2  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI**

NO.	BY	DATE



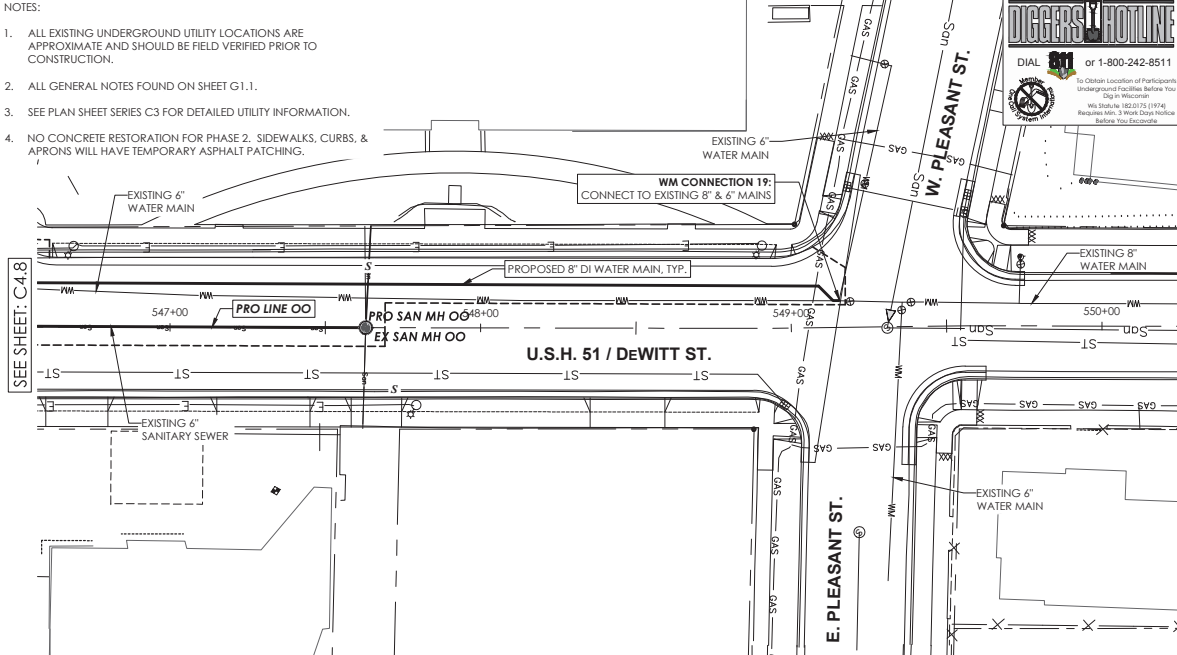
**DIGGERS HOODLINE**  
 DIAL 811 or 1-800-242-8511  
 To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin  
 Wis. Statute, §§201.31-201.3174  
 Requires Min. 3-Work Days Notice Before You Excavate

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REVIEWED BY	KDA
ISSUE DATE	OCT. 2019
GEC FILE NO.	2-0119-1B
SHEET NO.	C4.8

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PRELIMINARY NOT FOR CONSTRUCTION

- NOTES:
1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  2. ALL GENERAL NOTES FOUND ON SHEET G1.1.
  3. SEE PLAN SHEET SERIES C3 FOR DETAILED UTILITY INFORMATION.
  4. NO CONCRETE RESTORATION FOR PHASE 2. SIDEWALKS, CURBS, & APRONS WILL HAVE TEMPORARY ASPHALT PATCHING.



**DIGGERS NOTICE**

or 1-800-242-8511

To Obtain Location of Participants, Underground Facilities Before You Dig or Excavate:

Wis. Statute 182.075 (174) Requires that you mark Down Before You Excavate

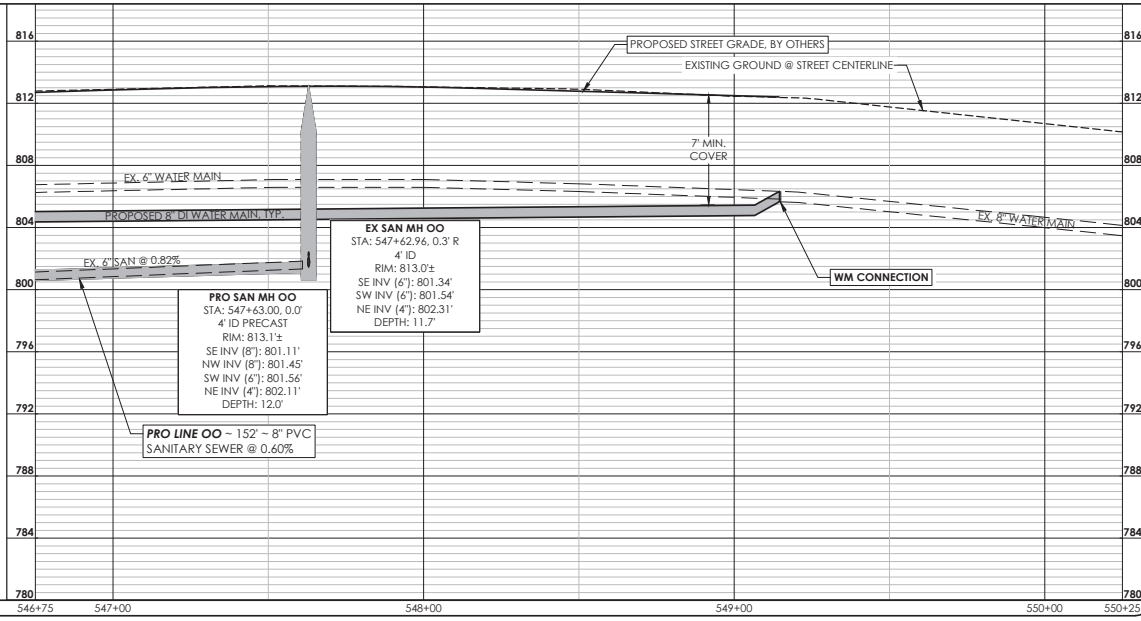


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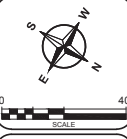
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STREET & UTILITY IMPROVEMENTS  
WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PHASE 2  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI**

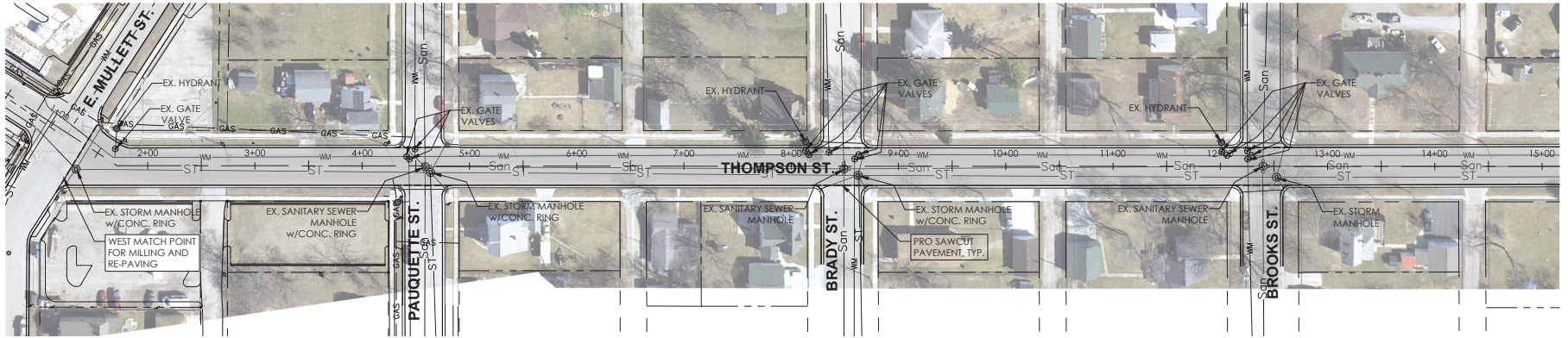


NO.	BY	DATE

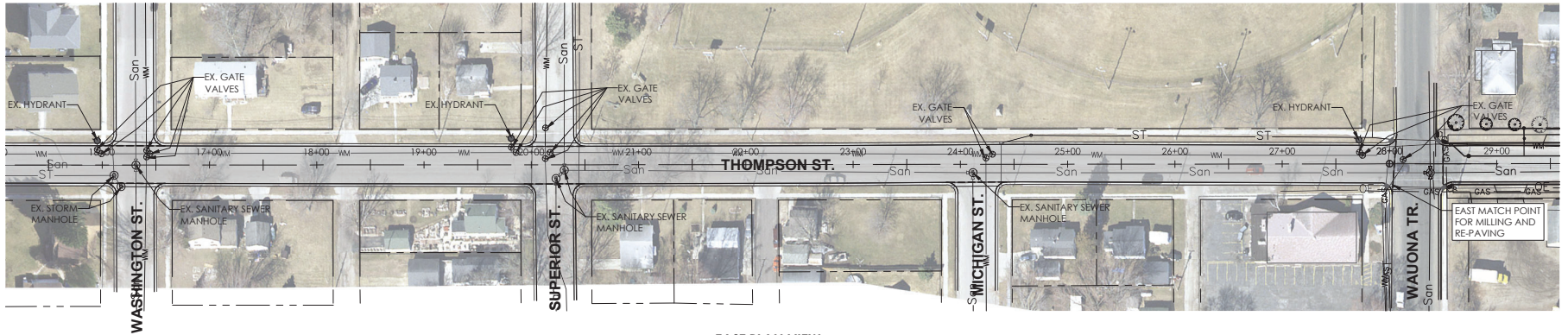


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ISSUE DATE: OCT. 2019  
GEC FILE NO.: 2-0119-1B  
SHEET NO.:

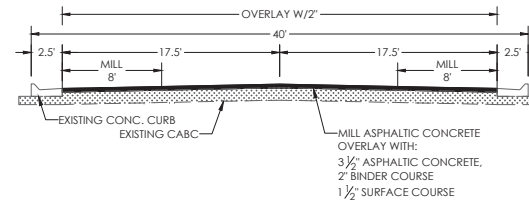
**C4.9**



1 WEST PLAN VIEW  
SCALE: AS SHOWN



2 EAST PLAN VIEW  
SCALE: AS SHOWN



TYPICAL THOMPSON STREET SECTION  
(MULLETT ST. TO WAUNA TRAIL)

A TYPICAL X-SECTION  
SCALE: NONE

NOTES:

1. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. ALL GENERAL NOTES FOUND ON SHEET G.1.1.



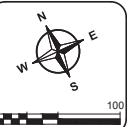
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PROPOSED SITE PLAN  
STREET & UTILITY IMPROVEMENTS  
WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
PHASE 3 - THOMPSON ST.  
CITY OF PORTAGE  
COLUMBIA COUNTY, WI

NO.	BY	DATE



**DECKERS' WORKLINE**

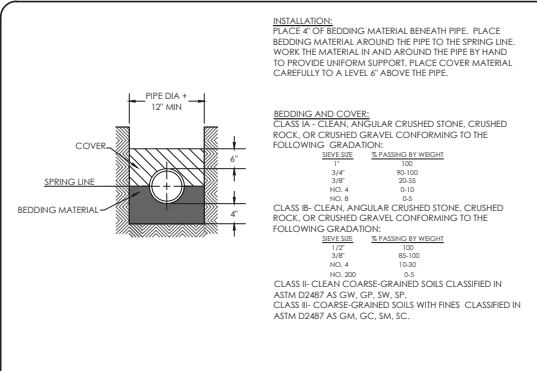
DIAL or 1-800-242-8511

To Obtain Location of Participating Underground Facilities Before You Dig in Wisconsin: Wis Statute 192.0175 (1974) Requires Min. 3 Work Days Notice Before You Excavate.

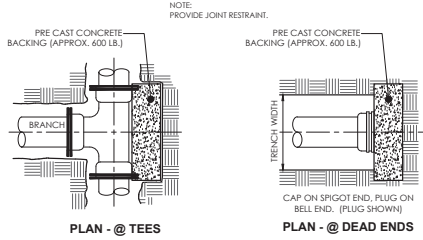
DRAWN BY: SRR  
REVIEWED BY: KDA  
ISSUE DATE: OCT. 2019  
GEC FILE NO.: 2-0119-1B  
SHEET NO.:  
**C5.0**



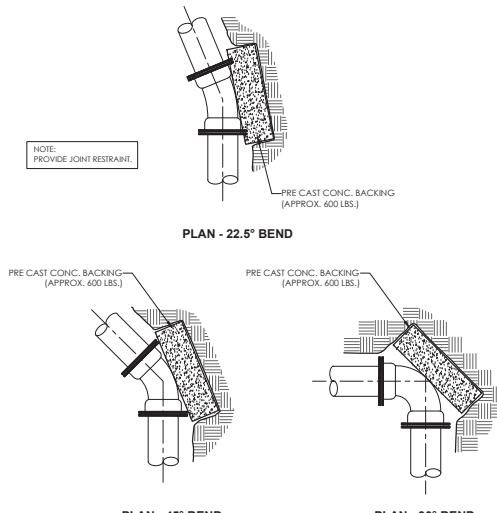
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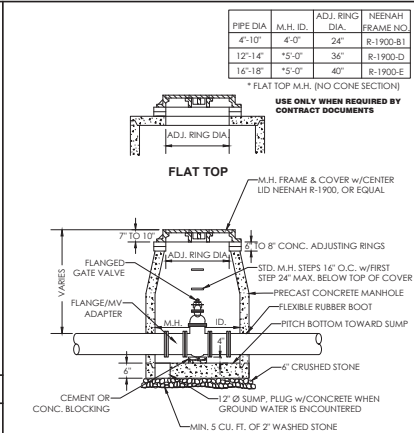
**STANDARD WATER MAIN TRENCH**



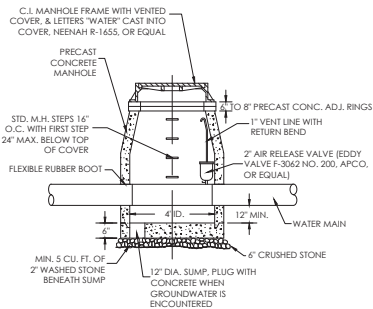
**CONCRETE BACKING**



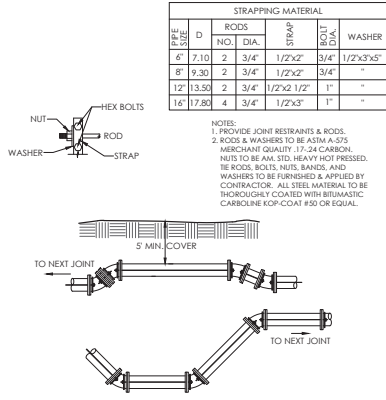
**CONCRETE BACKING FOR BENDS**



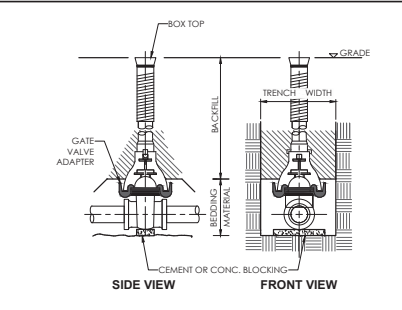
**STANDARD VAULT FOR GATE VALVES**



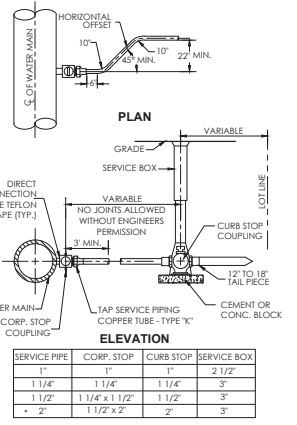
**AIR RELEASE VAULT**



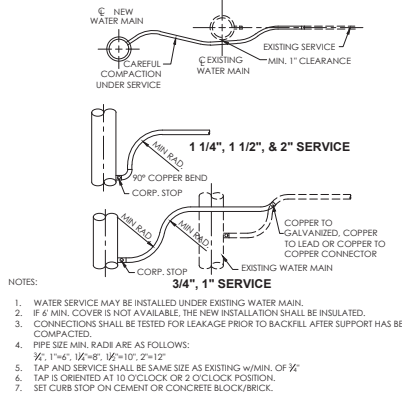
**VERTICAL WATER MAIN OFFSETS**



**STANDARD GATE VALVE BOX SETTING**

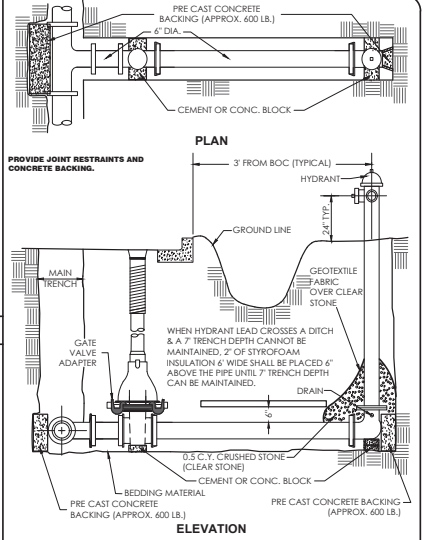


**TAP SERVICE PIPING ( COPPER )**

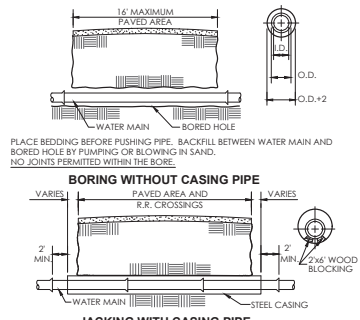


**TAP SERVICE PIPING**

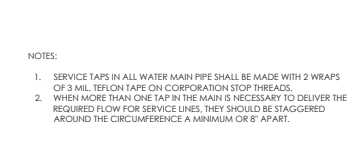
**PRELIMINARY NOT FOR CONSTRUCTION**



**STANDARD HYDRANT SETTING**



**BORING OR JACKING w/CASING PIPE**



**GENERAL NOTES**

**GEC**

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**WATER MAIN CONSTRUCTION DETAILS**

**STREET & UTILITY IMPROVEMENTS**

**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**

**CITY OF PORTAGE**

**COLUMBIA COUNTY, WI**

NO.	BY	DATE

AS NOTED  
SCALE

DRAWN BY **SRB**  
 REVIEWED BY **KDA**  
 ISSUE DATE **OCT. 2019**  
 GEC File No. **2-0119-1B**  
 SHEET NO.

**C6.0**

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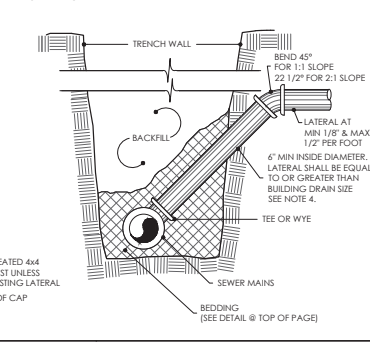
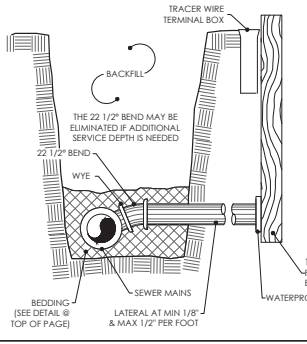
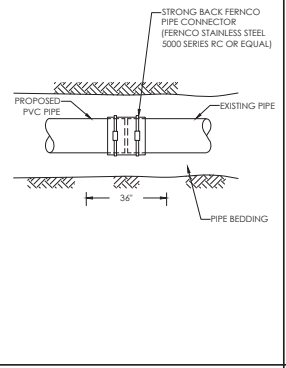
**SANITARY SEWER CONSTRUCTION DETAILS**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

NO.	DATE	BY	REVISIONS

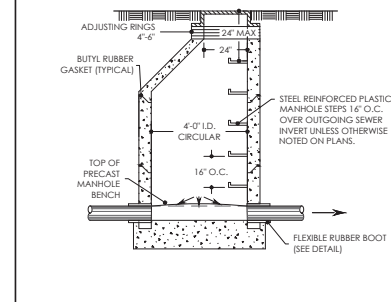
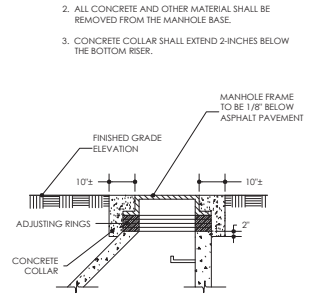
AS NOTED  
SCALE

DRAWN BY: **SRB**  
 REVIEWED BY: **KDA**  
 ISSUE DATE: **OCT. 2019**  
 GEC FILE NO: **2-0119-1B**  
 SHEET NO.

- NOTES:**
- USE OF RISERS GOVERNED BY BASEMENT DEPTH & LOCAL CONDITIONS OR AS DIRECTED BY ENGINEER
  - LATERAL SHALL END AT PROPERTY LINE UNLESS OTHERWISE DIRECTED BY ENGINEER
  - DEPTH TO LATERAL & PROPERTY LINE SHALL NOT BE DEEPER THAN NECESSARY TO SERVICE PARCEL
  - ALL laterals to be 4" UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS. 4" MAY BE USED ONLY IF ECCENTRIC FERROCOS ARE USED.
  - ALL HOUSE LATERAL CONNECTIONS SHALL BE CONSTRUCTED AS PER THIS DETAIL UNLESS OTHERWISE SHOWN ON PLANS, OR WITH WRITTEN APPROVAL OF THE ENGINEER.



- NOTES:**
- CONCRETE COLLAR SHALL BE WORKED BELOW MANHOLE FRAME AND HAND FINISHED INSIDE OF THE MANHOLE.
  - ALL CONCRETE AND OTHER MATERIAL SHALL BE REMOVED FROM THE MANHOLE BASE.
  - CONCRETE COLLAR SHALL EXTEND 2-INCHES BELOW THE BOTTOM RISER.

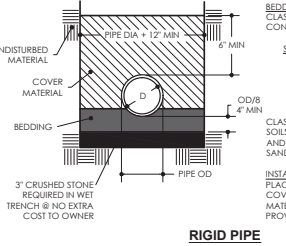


**TYPICAL PIPE CONNECTION**

**TYPICAL LATERAL CONNECTIONS**

**CONCRETE COLLAR**

**TYPICAL MANHOLE**

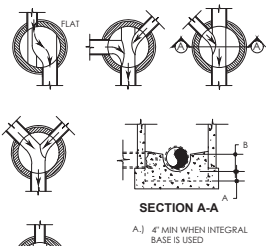


**BEDDING AND COVER MATERIAL:**  
 CLASS B: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

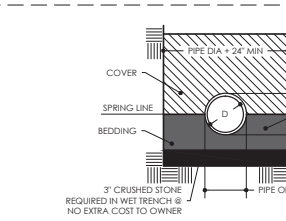
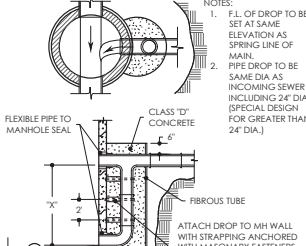
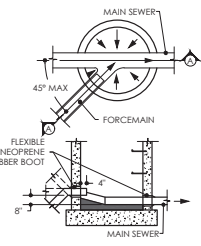
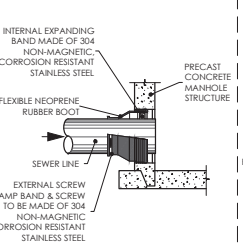
SEIVE SIZE	% PASSING BY WEIGHT
100	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS C: EXCAVATED COARSE-GRAINED SOILS, TYPES GW, GP, SW, SP, GM, GC, SM, AND SC; CLASS B BEDDING; OR PIT RUN SAND.

**INSTALLATION:**  
 PLACE AND COMPACT BEDDING AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.



- NOTES:**
- MINIMUM DESIGN LIVE LOAD SHALL BE A SINGLE CONCENTRATED LOAD OF 300 LBS. VERTICALLY AND 300 LBS. HORIZONTALLY.
  - STEPS MUST BE EQUALLY SPACED VERTICALLY IN THE ASSEMBLED MANHOLE AT A MAXIMUM DESIGN DISTANCE OF 16" APART.
  - STEPS SHALL BE FABRICATED OF COPOLYMER POLYPROPYLENE THAT ENCAPSULATES A DEFORMED 1/2" GRADE 60 REINFORCING ROD.



**BEDDING AND COVER MATERIAL:**  
 CLASS IA: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS IB: CRUSHED STONE OR GRAVEL CONFORMING TO FOLLOWING GRADATION:

SEIVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 8	0-5

CLASS II: SAND, GRAVELS, AND SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES. SOIL TYPES GW, GP, SW, AND SP.  
 CLASS III: SANDS, GRAVELS, AND SAND-GRAVEL MIXTURES WITH FINES. SOIL TYPES GM, GC, SM, AND SC.

**INSTALLATION:**  
 PLACE AND COMPACT BEDDING AND COVER IN MAXIMUM 6" LAYERS. WORK MATERIAL IN AND AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. COMPACT CLASS IB WITH HAND TAMPER OR VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR. COMPACT CLASS II WITH VIBRATORY COMPACTOR TO 85% STANDARD PROCTOR. COMPACT CLASS III WITH VIBRATORY COMPACTOR TO 90% STANDARD PROCTOR.

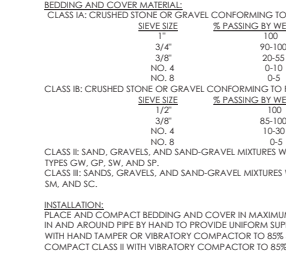
**TYPICAL MANHOLE INVERTS**

**TYPICAL STEP DETAIL**

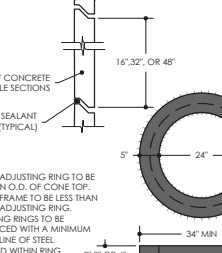
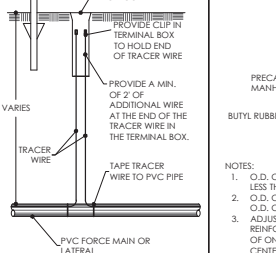
**FLEX PIPE TO MH**

**FORCEMAIN TO MH**

**OUTSIDE DROP TO MH**



- NOTES:**
- O.D. OF ADJUSTING RING TO BE LESS THAN O.D. OF CONE TOP.
  - O.D. OF FRAME TO BE LESS THAN O.D. OF ADJUSTING RING.
  - ADJUSTING RINGS TO BE REINFORCED WITH A MINIMUM OF ONE LINE OF STEEL CENTERED WITHIN RING.



**TYPICAL MANHOLE CONNECTIONS**

**TYPICAL FRAME & COVER**

**WATERTIGHT MANHOLE DETAIL**

**TYPICAL PIPE BEDDING**

**TRACER WIRE TERMINAL BOX**

**FRAME AND JOINT SEALING DETAIL**

**STANDARD PIPE SADDLE FOR WYE SERVICE CONNECTION TO SEWER**

**TYPICAL MANHOLE CONNECTIONS**

**TYPICAL FRAME & COVER**

**WATERTIGHT MANHOLE DETAIL**

G:\Current Files\_L\QP\Portage\2019 Projects\2-0119-1B - Improvement\CAD 2-0119-1B-1\DWG\_01500197.483.33.AM.1.1



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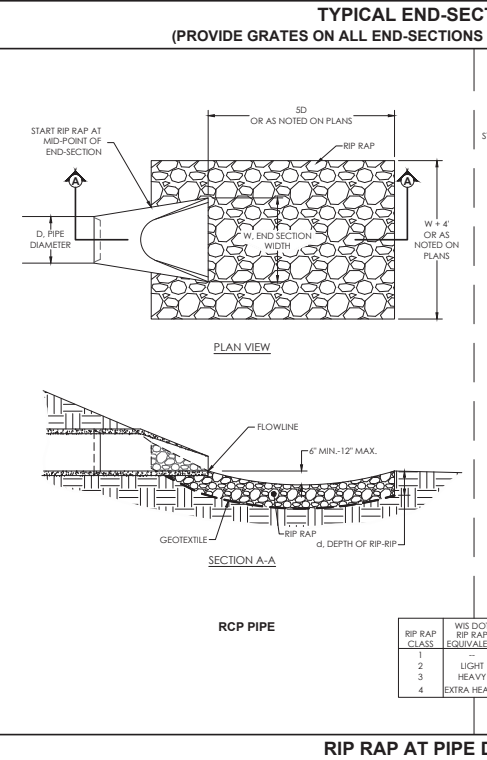
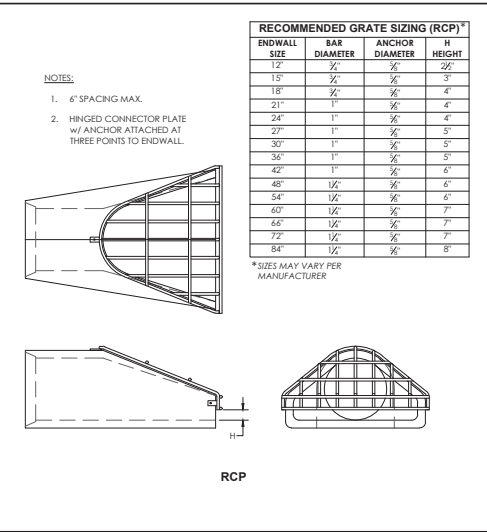
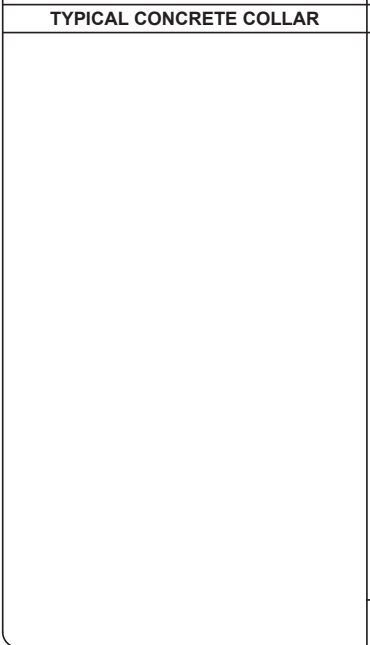
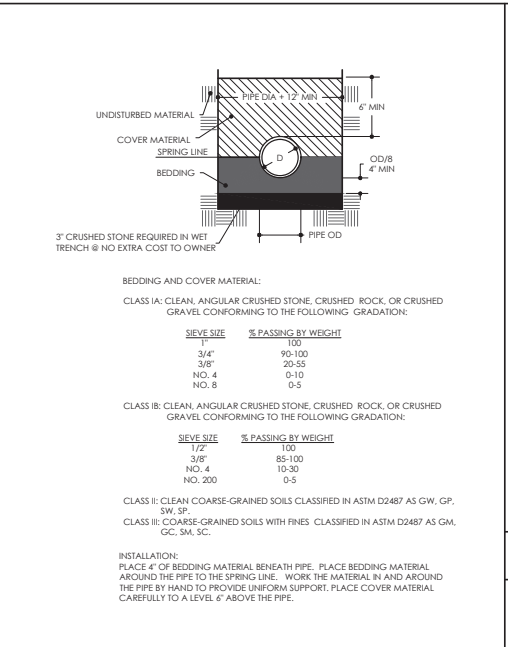
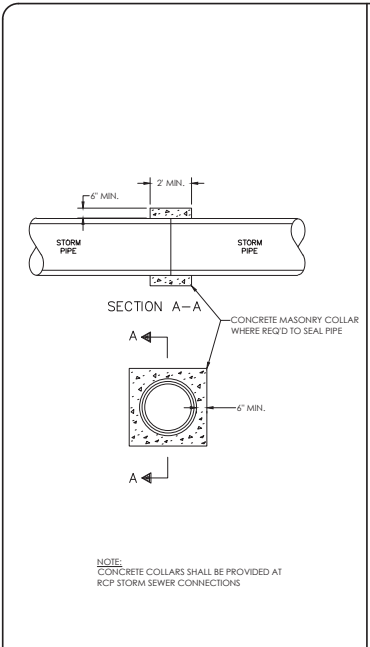
**STORM SEWER CONSTRUCTION DETAILS**  
**STREET & UTILITY IMPROVEMENTS**  
**WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

REVISIONS	NO.	BY	DATE

AS NOTED  
SCALE

DRAWN BY: **SRR**  
 REVIEWED BY: **KDA**  
 ISSUE DATE: **OCT. 2019**  
 GEC FILE NO.: **2-0119-1B**  
 SHEET NO.:

**C6.2**



**BEDDING AND COVER MATERIAL:**

CLASS IA: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

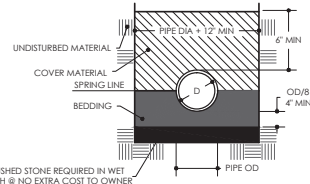
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 5	0-5

CLASS IB: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	65-100
NO. 4	10-30
NO. 200	0-5

CLASS II: CLEAN COARSE-GRAINED SOILS CLASSIFIED IN ASTM D2487 AS GW, GP, SW, SP.

CLASS III: COARSE-GRAINED SOILS WITH FINES CLASSIFIED IN ASTM D2487 AS GM, GC, SM, SC.

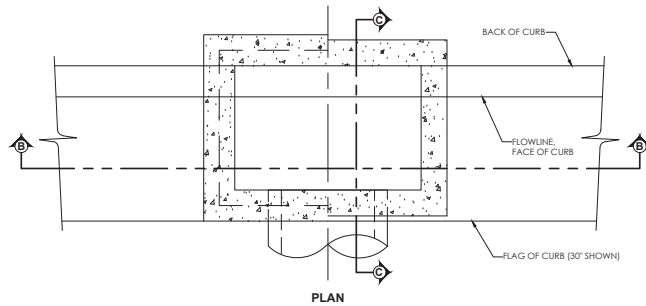


3" CRUSHED STONE REQUIRED IN WET TRENCH @ NO EXTRA COST TO OWNER

**INSTALLATION:**

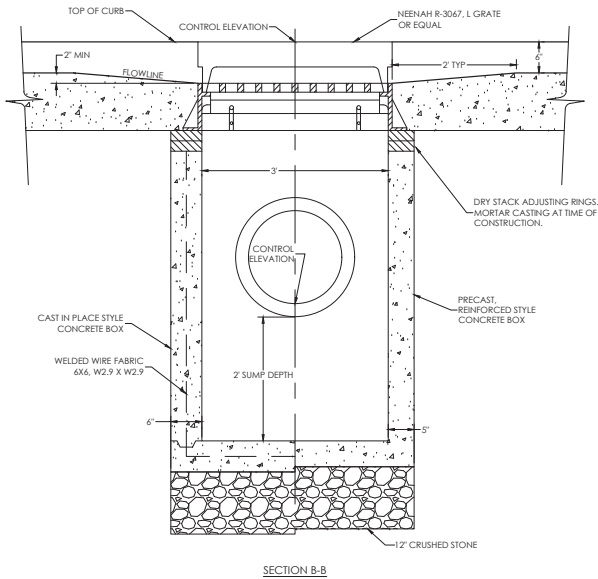
PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND THE PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO A LEVEL 6" ABOVE THE PIPE.

**RIGID PIPE BEDDING (RCP)**

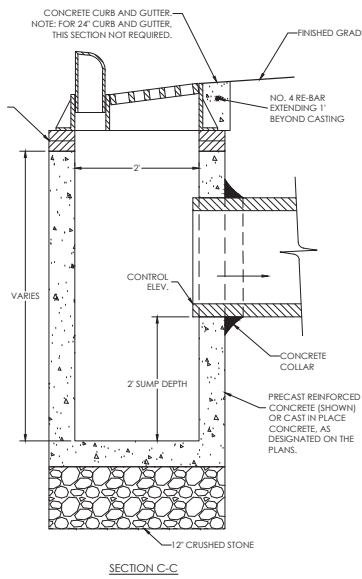


**NOTES:**

1. EXPANSION MATERIAL REQUIRED IN CURB WITHIN 3' OF CURB INLET

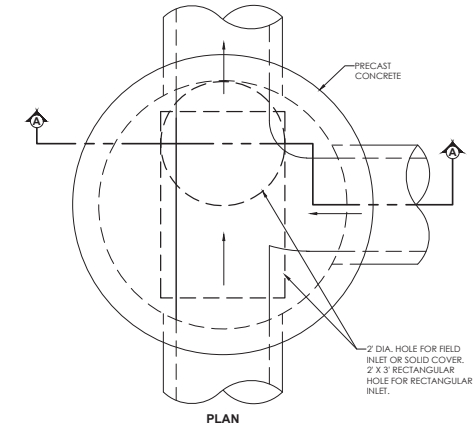


SECTION B-B

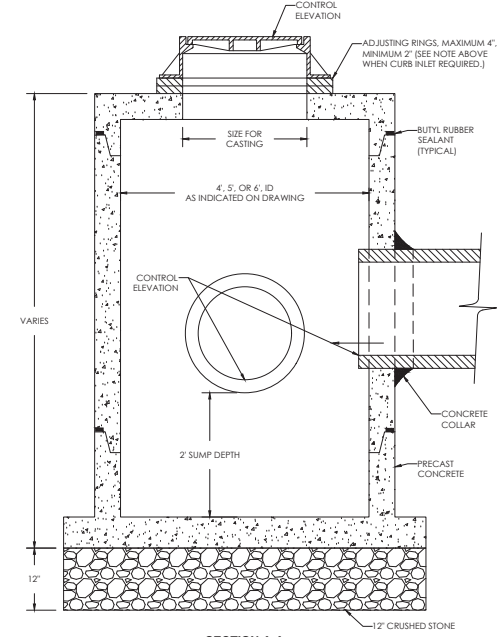


SECTION C-C

**2'x3' CURB INLET**



PLAN



SECTION A-A CIRCULAR

**MANHOLE / INLET NOTES:**

1. CURB INLET: NEENAH R-3067-L FOR INLETS ON SLOPES, NEENAH R-3067-R FOR INLETS ON SAGS AND NEENAH R-3290-A FOR INLETS IN DRIVEWAY.
2. FIELD INLET: NEENAH R-2535 OR EQUAL.
3. SOLID COVER: NEENAH R-1500 WITH TYPE B NON-ROCKING LID.
4. BEEHIVE INLET: NEENAH R-2560-D7 OR EQUAL.
5. WHEN MH CASTING IS USED, AN ECCENTRIC CONE TOP SHALL BE USED IF MH HAS ENOUGH DEPTH.
6. PROVIDE MANHOLE STEPS, 16" O.C. FOR STRUCTURES WHEN DEPTH IS OVER 4'. MANHOLE STEPS SHALL CONFORM TO THE SPECIFICATIONS.
7. PROVIDE MANHOLE STEPS FOR MANHOLE 48" DIA. AND LARGER. PLACE STEPS IN VERTICAL ALIGNMENT EQUALLY SPACED 16" O.C. WITH THE STEP NOT MORE THAN 24" FROM CASTING.

**STORM SEWER MANHOLE / INLET**



**General Engineering Company**

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53091  
608-742-2109 (Office) • 608-742-2556 (Fax)  
www.generalengr.com

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**SANITARY SEWER MANHOLE & INLETS  
STREET & UTILITY IMPROVEMENTS  
WISCONSIN ST. / DEWITT ST. & THOMPSON ST.**

CITY OF PORTAGE  
COLUMBIA COUNTY, WI

REVISIONS	NO.	BY	DATE

AS NOTED  
SCALE

DRAWN BY: **SRP**  
REVIEWED BY: **KDA**  
ISSUE DATE: **OCT. 2019**  
GEC FILE NO: **2-0119-1B**  
SHEET NO.

**C6.3**



General Engineering Company

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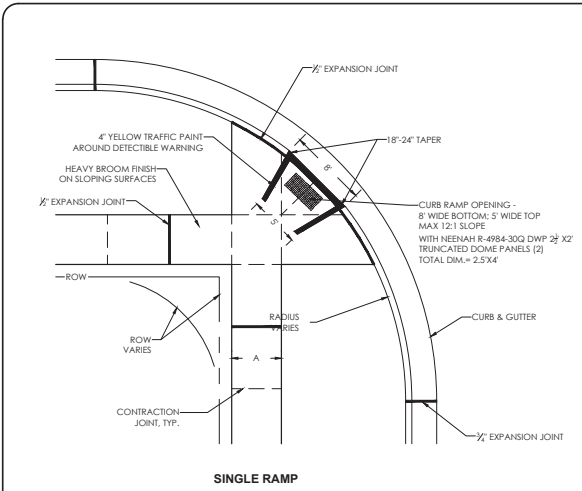
STREET & SITE IMPROVEMENT DETAILS  
 STREET & UTILITY IMPROVEMENTS  
 WISCONSIN ST. / DEWITT ST. & THOMPSON ST.  
 CITY OF PORTAGE  
 COLUMBIA COUNTY, WI

REVISIONS	NO.	BY	DATE

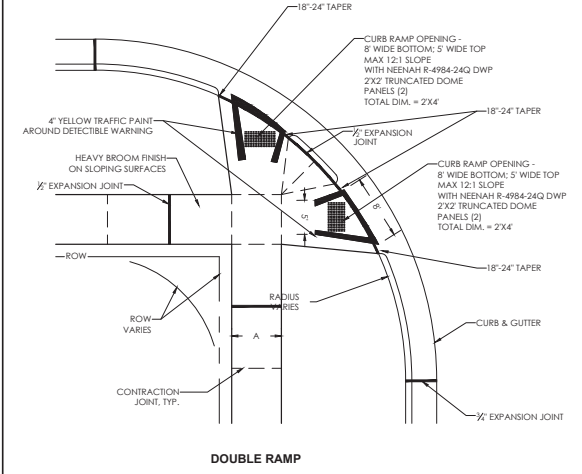
AS NOTED  
 SCALE

DRAWN BY: SRR  
 REVIEWED BY: KDA  
 ISSUE DATE: OCT. 2019  
 GEC FILE NO.: 2-0119-1B  
 SHEET NO.:

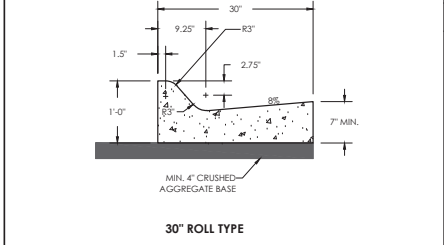
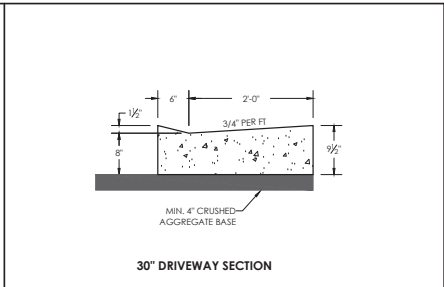
C6.4



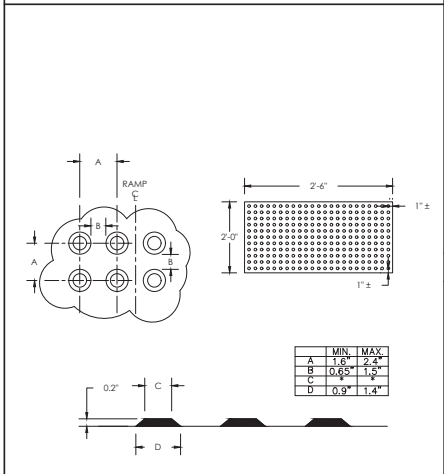
NOTE:  
 A = 4' OR 5' TYPICALLY  
 SEE PLANS FOR PROPOSED WIDTH



TYPICAL RAMP INTERSECTIONS

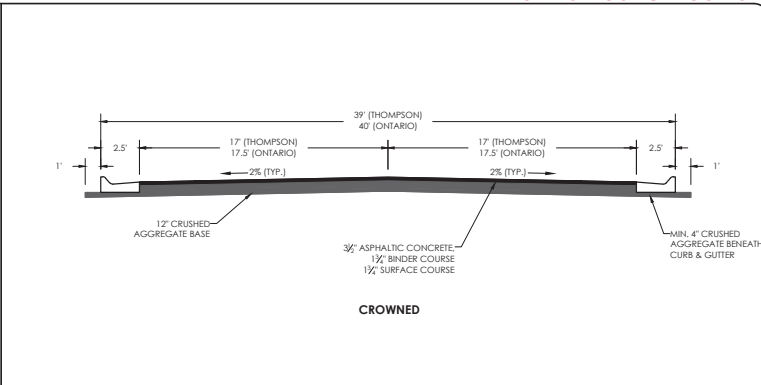


TYPICAL CURB DETAILS

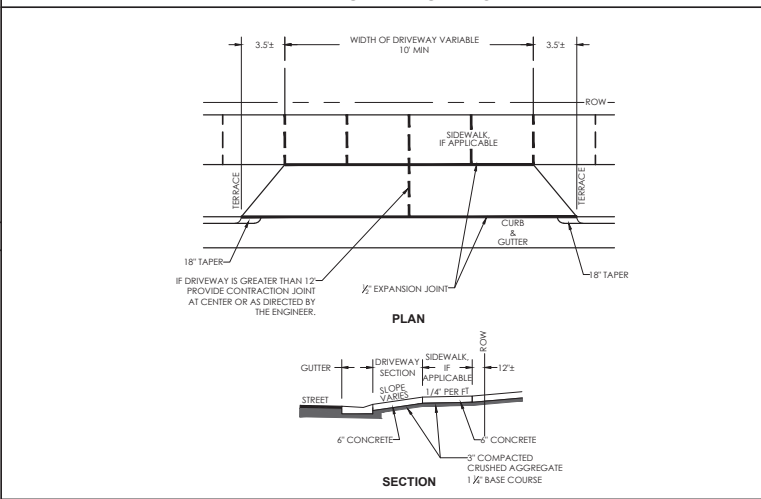


NOTE:  
 1. USE NEENAH R-4984 DWP (UNPAINTED) FOR TRUNCATED DOMES - QUICK CONNECT 24Q OR 30Q.  
 2. SEE BIDDING DOCUMENTS FOR PROJECT REQUIREMENTS.

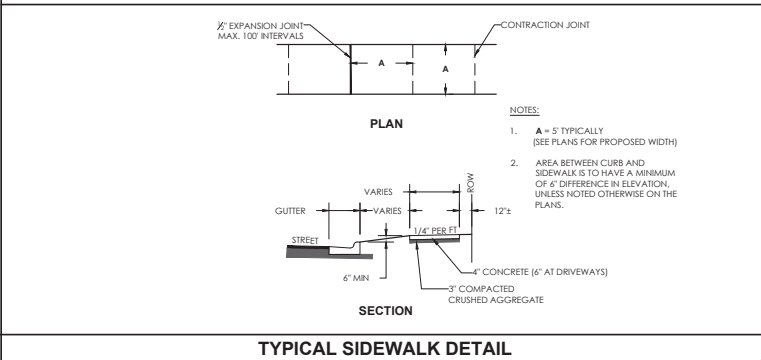
DETECTIBLE WARNING SURFACE



TYPICAL STREET SECTION



TYPICAL DRIVEWAY DETAIL



TYPICAL DRIVEWAY DETAIL

## **Appendix B: Special Provisions/WDNR Concurrence Letter**

# 1. Excavation, Hauling, and Disposal of Contaminated Soil

## A Description

### A.1 General

This special provision describes excavating, loading, hauling, and disposing of contaminated soil. Contaminated soil shall be disposed of at a WDNR-licensed facility. The closest WDNR-licensed facilities are:

Waste Management Madison Prairie Landfill  
6002 Nelson Road  
Sun Prairie, WI 53590

Advanced Disposal Glacier Ridge Landfill  
N7296 Hwy V  
Horicon, WI 53032

Perform this work in accordance with section 205 of the standard specifications and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

### A.2 Notice to the Contractor – Contaminated Soil Locations

The department completed testing for soil, and groundwater contamination within this project where excavation is required. Previous investigations indicate that contamination is present at the following locations:

#### Petroleum Contamination

- **Site 8 (Mael Estate – Triangle Property, 100 Edgewater St.)** – The entire parcel described as Station 102+00WI to 103+50WI from reference line to limits on LT, and from 538+30DE to 539+10DE from limits on RT to limits on LT
- **Wisconsin St./USH 51**
  - n **Sites 5 & 7** - Station 99+25WI to 100+75WI, from limits on RT to limits on LT
  - n **Sites 8, 11, 12, 13, 14, & 24** - Station 102+50WI to 107+75WI, from limits on RT to limits on LT
  - n **Site 15** - Station 111+00WI to 111+75WI, from reference line to limits on LT
  - n **Site 19** - Station 116+00WI to 117+25WI, from reference line to limits on RT
- **Edgewater St.**
  - n **Sites 4 & 5** - West limit to Wisconsin St./USH 51 intersection, from limits on RT to limits on LT

- n **Sites 7 & 8** - Current De Witt St. intersection to 100 feet west, from limits on RT to limits on LT
- **De Witt St.**
  - n **Site 8** - Current right-of-way along Site 8, from west limits to centerline

**Chlorinated Compound Contamination**

- **Wisconsin St./USH 51**
  - n **Sites 11 & 24** - Station 103+00WI to 107+75WI, from limits on RT to limits on LT

**Metals Contamination**

- **Site 24** – Station 102+50WI to 103+00WI, from center to limits on RT, and all sediment within the Portage Canal

Contaminated soil and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soil and/or USTs are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Contaminated at other locations shall be managed by the contractor under this contract. USTs will be removed by others.

For further information regarding previous investigation and remediation activities at these sites contact:

Name: Aaron Jahncke  
 Director of Public Works – City of Portage  
 Address: 115 W. Pleasant St.  
 Portage, WI 53901  
 Phone: 608-742-2176 ext 325  
 e-mail: [Aaron.jahncke@portagewi.gov](mailto:Aaron.jahncke@portagewi.gov)

**A.3 Coordination**

Coordinate work under this contract with the environment consultant retained by the City of Portage.

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on analytical results from previous investigations, visual observations, and field screening of soil that is excavated;



2. Identifying contaminated soils and to be hauled to the bioremediation and landfill facilities;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contamination management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation and disposal facilities.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also, notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

Identify the WDNR-licensed bioremediation and disposal facilities that will be used for disposal of contaminated soil and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soil from the bioremediation and disposal facilities.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed. Do not pump or haul contaminated groundwater offsite without specific approval from the environmental consultant. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

#### **A.4 Protection of Groundwater Monitoring Wells**

Groundwater monitoring wells may be present within the construction limits. Protect all groundwater monitoring wells to maintain their integrity. Adjust wells that do not conflict with utilities, structures, curb and gutter, etc. to be flush with the final grade. For wells that conflict with the previously mentioned items, notify the environmental consultant, and coordinate with the environmental consultant for the abandonment or adjustment of the wells by others. The environmental consultant will provide maps indicating the locations of all known monitoring wells, if requested by the contractor.

#### **A.5 Excavation Management Plan Approval**

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR's concurrence letter is on file at the City of Portage. For further information regarding the investigations, including waste characterization within the project limits, contact Aaron Jahncke with the City of Portage, at 608-742-2176, ext. 325.

## **A.6 Health and Safety Requirements for Workers Remediating Contamination**

*Supplement subsection 107.1 of the standard specifications with the following:*

During excavation activities, expect to encounter soil and groundwater contaminated with petroleum products; soil and groundwater contaminated with chlorinated compounds; and sediment contaminated with metals. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

Disposal of contaminated soil at the bioremediation and landfill facilities is subject to the facilities' safety policies.

### **B (Vacant)**

### **C Construction**

*Supplement subsection 205.3 of the standard specification with the following:*

Control operations in the contaminated areas to minimize the quantity of contaminated soil and excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite disposal. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

On the basis of the results of such field-screening, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-level contaminated material (for petroleum-contaminated, PID readings less than 10 ppm for and no observation of staining or odor; for chlorinated compound-

contaminated, identified based on laboratory detection) for reuse as fill within the construction limits as allowed, or

- Significant petroleum-contaminated soil (significant petroleum odor, staining, and/or PID readings greater than 10 ppm) for off-site bioremediation and disposal at the WDNR-licensed bioremediation facility, or
- Significant chlorinated compound-contaminated soil and metals-contaminated soil (identified based on laboratory detection) for off-site direct disposal at the WDNR-licensed disposal facility, or
- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal.

Directly load and haul soil designated by the environmental consultant for offsite disposal to the WDNR-licensed facility. Verify that vehicles used to transport contaminated material are licensed for such activity in accordance with applicable state and federal regulations. Use loading and hauling practices that are appropriate to prevent any spills or releases of contaminated soils or residues. Prior to transport, sufficiently dewater soils so as not to contain free liquids.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum or other chemical products, or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the engineer.

#### **D Measurement**

The department will measure Excavation, Hauling, and Disposal of Contaminated Soil in tons of contaminated soil accepted by the bioremediation or disposal facility as documented by weight tickets generated by the facility. Load tickets must be delivered to the engineer within 10 business days of the date on which the soil was accepted by the facility.

#### **E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
<u>350</u>	Excavation, Hauling, and Disposal of Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of petroleum-contaminated soil; excavating, segregating, loading, hauling, and disposal of chlorinated compound-contaminated soil; tipping fees; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

## Niesen, Melanie

---

**From:** Mason, John M - DNR <John.Mason@wisconsin.gov>  
**Sent:** Monday, March 16, 2020 12:10 PM  
**To:** Haak, Daniel  
**Cc:** Aaron Jahncke; Taylor, Brian F - DOT; TeBeest, Sharlene - DOT  
**Subject:** RE: [EXTERNAL] Excavation Management Plan - City of Portage, USH 51 (Wisconsin St. & Dewitt St.) & Thompson St., Portage, WI

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello Dan,

Please attach a copy of our question and answer email (below) as an addendum to the Excavation Management Plan for the City of Portage street and utility improvements along USH 51 (Wisconsin St. & DeWitt St.) & Thompson St., in Portage, Wisconsin, dated February 25, 2020. With that addendum, I approve of the plan and associated Special Provisions regarding the management of contaminated soil and groundwater by the City and associated contractors during the utility improvement work. Thanks.

-John

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

### John Mason

Hydrogeologist, Remediation and Redevelopment Program, Environmental Management Division  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road, Fitchburg, WI 53711  
Phone: (608) 275-3222  
[john.mason@wisconsin.gov](mailto:john.mason@wisconsin.gov)



---

**From:** Haak, Daniel <DHaak@trcccompanies.com>  
**Sent:** Tuesday, March 10, 2020 11:20 AM  
**To:** Mason, John M - DNR <John.Mason@wisconsin.gov>  
**Cc:** Aaron Jahncke <Aaron.Jahncke@portagewi.gov>  
**Subject:** RE: [EXTERNAL] Excavation Management Plan - City of Portage, USH 51 (Wisconsin St. & Dewitt St.) & Thompson St., Portage, WI

Thanks John for your quick review. Please see my comments below in red.

Dan

---

**From:** Mason, John M - DNR <[John.Mason@wisconsin.gov](mailto:John.Mason@wisconsin.gov)>  
**Sent:** Monday, March 9, 2020 3:39 PM  
**To:** Haak, Daniel <[DHaak@trcccompanies.com](mailto:DHaak@trcccompanies.com)>

**Subject:** [EXTERNAL] Excavation Management Plan - City of Portage, USH 51 (Wisconsin St. & Dewitt St.) & Thompson St., Portage, WI

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello Dan,

I received the Excavation Management Plan for the City of Portage street and utility (water line and sanitary sewer) improvements for USH 51 (Wisconsin St. & DeWitt St.) & Thompson St., Portage, WI, dated February 25, 2020. The improvements are proposed for 2020.

The plan submitted on behalf of the City is a modified and reduced version of the plan that was submitted for excavation management during road and storm sewer improvements to be done by the WisDOT in 2021 (WisDOT project I.D. #6918-01-02). The Special Provisions for the WisDOT plan were approved on July 30, 2018.

The following are my comments regarding the Special Provisions in the City of Portage Excavation Management Plan:

In the Special Provisions at the end of Section 1.A.2, there is a paragraph that refers to procedures to follow regarding the encountering of contaminated soil and underground storage tanks (USTs). There should be some mention that the contractor may also encounter groundwater contaminated with petroleum and chlorinated compounds exceeding NR 140 Enforcement Standards (ES). There will likely be ES exceedances in groundwater encountered north and east of Site #11 (Portage Cleaners), near Site #19 (Crawford 66), and possibly near Site #7 (Mael Estate Property).

**We will emphasize areas with contaminated groundwater. The City plans to accept dewatering into the sanitary sewer.**

In the Special Provisions in Section 1.A.3. in the listing of the role of the environmental consultant, there should be reference to the consultant needing to identify contaminated groundwater to be pumped into the sanitary sewer and documenting that such activities are in conformance with contaminant management methods.

**The City plans to retain an environmental consultant and will communicate with the contractor.**

As compared to the plan approved for the WisDOT, the Special Provisions for the City no longer refers to management of potentially hazardous chlorinated compound-contaminated soil or groundwater. The Site Plan (map) Figure 2B indicates that a proposed water main is to be installed in the rectangular area designated as "Potentially Hazardous Contamination Area," on the north side of Site 11 (Portage Cleaners site) where chlorinated VOCs have been detected in soil and groundwater. Please indicate how the contaminated soil and groundwater encountered in this area are to be managed.

**The City plans to directional bore the water main under the canal and past the area identified with potential hazardous chlorinated compound-contaminated soil. Soil will only be generated at the entrance and exit pits beyond that location.**

Thank you for the submittal and let me know if you have any questions.

-John

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**John Mason**

Hydrogeologist, Remediation and Redevelopment Program, Environmental Management Division  
Wisconsin Department of Natural Resources

3911 Fish Hatchery Road, Fitchburg, WI 53711

Phone: (608) 275-3222

[john.mason@wisconsin.gov](mailto:john.mason@wisconsin.gov)




[dnr.wi.gov](http://dnr.wi.gov)



## Appendix C: Photographic Log





## Photographic Log


<b>Client Name:</b> City of Portage		<b>Site Location:</b> USH 51 Portage, Columbia County, WI	<b>Project No.:</b> TRC: 317018.0000.0000
<b>Photo No.</b> 1	<b>Date</b> 7/20/2020		
<b>Description</b> Excavation for water utility at Site 19. Evidence of petroleum contaminated soil observed.  Photo taken looking north.			


<b>Photo No.</b> 2	<b>Date</b> 7/22/2020		
<b>Description</b> Excavation for watermain along USH 51 at Site 11  Photo taken looking northwest.			

## Photographic Log

<b>Client Name:</b> City of Portage		<b>Site Location:</b> USH 51 Portage, Columbia County, WI	<b>Project No.:</b> TRC: 317018.0000.0000
<b>Photo No.</b> 3	<b>Date</b> 7/27/2020		
<b>Description</b> Excavation for water lateral at Site 15.  Photo taken looking south.			
<b>Photo No.</b> 4	<b>Date</b> 7/29/2020		
<b>Description</b> Installation of watermain at Site 11.  Photo taken look looking north.			

## Photographic Log

<b>Client Name:</b> City of Portage		<b>Site Location:</b> USH 51 Portage, Columbia County, WI	<b>Project No.:</b> TRC: 317018.0000.0000
<b>Photo No.</b> 5	<b>Date</b> 7/30/2020		
<b>Description</b> Excavation for water utility at the intersection of Wisconsin Street and W. Mullett St.  Photo taken looking southwest.			

<b>Photo No.</b> 6	<b>Date</b> 11/18/2020		
<b>Description</b> Site 24 cap, post construction.  Photo taken looking west.			

## Photographic Log

<b>Client Name:</b> City of Portage	<b>Site Location:</b> USH 51 Portage, Columbia County, WI	<b>Project No.:</b> TRC: 317018.0000.0000
----------------------------------------	-----------------------------------------------------------------	----------------------------------------------

<b>Photo No.</b> 7	<b>Date</b> 11/18/2020	<b>Description</b> Portage Canal cap, post construction.  Photo taken looking southeast.	
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<b>Photo No.</b> 8	<b>Date</b> 11/18/2020	<b>Description</b> Cap at Site 19, post construction.  Photo taken looking southwest.	
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## **Appendix D: Disposal Documentation**

Date	Manifest/Additional Documents	Ticket #	Material	Facility	Carrier	Vehicle	Tons/Tonnes	Material Quantity	Material Unit	
7/29/2020	133542WI	114-01	385286	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	22.56	22.56	TON
7/29/2020	133542WI	114-2	385292	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	22.65	22.65	TON
7/29/2020	133542WI	114-3	385299	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	23.28	23.28	TON
7/31/2020	133542WI	114-01	385411	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	19.38	19.38	TON
7/31/2020	133542WI	23-01	385416	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	TEDS PLACE TRUCKING	23	18.43	18.43	TON
7/31/2020	133542WI	114-02	385443	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	23.72	23.72	TON
7/31/2020	133542WI	23-02	385460	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	TEDS PLACE TRUCKING	23	22.76	22.76	TON
7/31/2020	133542WI	114-03	385469	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	19.08	19.08	TON
8/5/2020	133542WI	114-01	385598	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	24.18	24.18	TON
8/5/2020	133542WI	0	385608	Unspecified Contaminated Soil, PMT Sp. W.	WI Madison Prairie	A1 EXPRESS TRUCKING LLC	114	23.16	23.16	TON
<b>Total</b>								<b>219.2</b>		

Date	Manifest/Additional Documents	Ticket #	Material	Facility	Carrier	Vehicle	Tons/Tonnes	Material Quantity	Material Unit	
7/20/2020	BIO133527WI	35	574860	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	KELLEY TRUCKING	35	21.7	21.7	TON
7/20/2020	BIO133527WI	A122	574844	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	A-1 EXPRESS	A122	23.74	23.74	TON
7/20/2020	BIO133527WI	23	574877	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	TEDS PLACE	23	15.25	15.25	TON
7/20/2020	BIO133527WI	32	574886	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	KELLEY TRUCKING	32	22.96	22.96	TON
7/20/2020	BIO133527WI	35	574919	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	KELLEY TRUCKING	35	24.07	24.07	TON
7/20/2020	BIO133527WI	23	574924	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	TEDS PLACE	23	18.72	18.72	TON
7/21/2020	BIO133527WI	35	574926	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	KELLEY TRUCKING	35	21.06	21.06	TON
7/21/2020	BIO133527WI	32	574929	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	KELLEY TRUCKING	32	18.85	18.85	TON
7/21/2020	BIO133527WI	23	574941	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	TEDS PLACE	23	24.72	24.72	TON
7/27/2020	BIO133527WI	0	575340	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	A-1 EXPRESS	114	19.41	19.41	TON
7/27/2020	BIO133527WI	0	575383	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	A-1 EXPRESS	114	23.61	23.61	TON
7/27/2020	BIO133527WI	0	575423	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	A-1 EXPRESS	114	19.97	19.97	TON
7/28/2020	BIO133527WI	0	575439	Unspecified material, bioremediated, daily cover, PMT RGC	WI Deer Track Park LF	A-1 EXPRESS	114	23.28	23.28	TON
							<b>Total</b>	<b>277.34</b>		

## **Appendix E: Laboratory Analytical Reports**



July 29, 2020

DAN HAAK  
TRC - MADISON  
708 HEARTLAND TRAIL  
Madison, WI 53717

RE: Project: 317018 USH51  
Pace Project No.: 40211609

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer  
tod.noltemeyer@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Tom Dushek, TRC Environmental  
Peggy Popp, TRC - Madison  
Steve Sellwood, TRC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 317018 USH51

Pace Project No.: 40211609

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 317018 USH51

Pace Project No.: 40211609

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40211609001	WM-A	Solid	07/22/20 10:30	07/23/20 12:10
40211609002	WM-B	Solid	07/22/20 11:00	07/23/20 12:10
40211609003	WM-C	Solid	07/22/20 12:45	07/23/20 12:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 317018 USH51

Pace Project No.: 40211609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40211609001	WM-A	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40211609002	WM-B	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40211609003	WM-C	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 317018 USH51  
Pace Project No.: 40211609

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40211609001</b>	<b>WM-A</b>					
ASTM D2974-87	Percent Moisture	8.5	%	0.10	07/28/20 14:13	
<b>40211609002</b>	<b>WM-B</b>					
ASTM D2974-87	Percent Moisture	12.4	%	0.10	07/28/20 14:13	
<b>40211609003</b>	<b>WM-C</b>					
EPA 8260	Tetrachloroethene	216	ug/kg	149	07/24/20 19:41	
ASTM D2974-87	Percent Moisture	13.4	%	0.10	07/28/20 14:13	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 317018 USH51

Pace Project No.: 40211609

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**Method:** EPA 8260

**Description:** 8260 MSV Med Level Normal List

**Client:** TRC - MADISON

**Date:** July 29, 2020

**General Information:**

3 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 317018 USH51

Pace Project No.: 40211609

**Sample: WM-A**      **Lab ID: 40211609001**      Collected: 07/22/20 10:30      Received: 07/23/20 12:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	563-58-6	W
1,2,3-Trichlorobenzene	<47.3	ug/kg	158	47.3	1	07/24/20 08:00	07/24/20 18:55	87-61-6	W
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	07/24/20 08:00	07/24/20 18:55	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	07/24/20 08:00	07/24/20 18:55	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	95-63-6	W
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	07/24/20 08:00	07/24/20 18:55	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 18:55	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 18:55	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	71-43-2	W
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 18:55	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	07/24/20 08:00	07/24/20 18:55	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	07/24/20 08:00	07/24/20 18:55	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	07/24/20 08:00	07/24/20 18:55	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	07/24/20 08:00	07/24/20 18:55	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	07/24/20 08:00	07/24/20 18:55	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	07/24/20 08:00	07/24/20 18:55	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	100-41-4	W
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	07/24/20 08:00	07/24/20 18:55	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	1634-04-4	W
Methylene Chloride	<26.3	ug/kg	88.0	26.3	1	07/24/20 08:00	07/24/20 18:55	75-09-2	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	07/24/20 08:00	07/24/20 18:55	91-20-3	W

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 317018 USH51  
Pace Project No.: 40211609

**Sample: WM-A**      **Lab ID: 40211609001**      Collected: 07/22/20 10:30      Received: 07/23/20 12:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Styrene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	100-42-5	W
Tetrachloroethene	<38.7	ug/kg	129	38.7	1	07/24/20 08:00	07/24/20 18:55	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	07/24/20 08:00	07/24/20 18:55	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/24/20 08:00	07/24/20 18:55	179601-23-1	W
n-Butylbenzene	<30.0	ug/kg	100	30.0	1	07/24/20 08:00	07/24/20 18:55	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 18:55	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 18:55	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 18:55	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 18:55	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	67.0	25.0	1	07/24/20 08:00	07/24/20 18:55	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	74.0	25.0	1	07/24/20 08:00	07/24/20 18:55	10061-02-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	120	%	58-145		1	07/24/20 08:00	07/24/20 18:55	1868-53-7	
Toluene-d8 (S)	99	%	56-140		1	07/24/20 08:00	07/24/20 18:55	2037-26-5	
4-Bromofluorobenzene (S)	90	%	52-137		1	07/24/20 08:00	07/24/20 18:55	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.5	%	0.10	0.10	1		07/28/20 14:13		

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## ANALYTICAL RESULTS

Project: 317018 USH51

Pace Project No.: 40211609

**Sample: WM-B**      **Lab ID: 40211609002**      Collected: 07/22/20 11:00      Received: 07/23/20 12:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	563-58-6	W
1,2,3-Trichlorobenzene	<47.3	ug/kg	158	47.3	1	07/24/20 08:00	07/24/20 19:18	87-61-6	W
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	07/24/20 08:00	07/24/20 19:18	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	07/24/20 08:00	07/24/20 19:18	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	95-63-6	W
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	07/24/20 08:00	07/24/20 19:18	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 19:18	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 19:18	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	71-43-2	W
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 19:18	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	07/24/20 08:00	07/24/20 19:18	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	07/24/20 08:00	07/24/20 19:18	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	07/24/20 08:00	07/24/20 19:18	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	07/24/20 08:00	07/24/20 19:18	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	07/24/20 08:00	07/24/20 19:18	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	07/24/20 08:00	07/24/20 19:18	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	100-41-4	W
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	07/24/20 08:00	07/24/20 19:18	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	1634-04-4	W
Methylene Chloride	<26.3	ug/kg	88.0	26.3	1	07/24/20 08:00	07/24/20 19:18	75-09-2	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	07/24/20 08:00	07/24/20 19:18	91-20-3	W

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### ANALYTICAL RESULTS

Project: 317018 USH51  
Pace Project No.: 40211609

**Sample: WM-B**      **Lab ID: 40211609002**      Collected: 07/22/20 11:00      Received: 07/23/20 12:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Styrene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	100-42-5	W
Tetrachloroethene	<38.7	ug/kg	129	38.7	1	07/24/20 08:00	07/24/20 19:18	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	07/24/20 08:00	07/24/20 19:18	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/24/20 08:00	07/24/20 19:18	179601-23-1	W
n-Butylbenzene	<30.0	ug/kg	100	30.0	1	07/24/20 08:00	07/24/20 19:18	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:18	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:18	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:18	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 19:18	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	67.0	25.0	1	07/24/20 08:00	07/24/20 19:18	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	74.0	25.0	1	07/24/20 08:00	07/24/20 19:18	10061-02-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	115	%	58-145		1	07/24/20 08:00	07/24/20 19:18	1868-53-7	
Toluene-d8 (S)	96	%	56-140		1	07/24/20 08:00	07/24/20 19:18	2037-26-5	
4-Bromofluorobenzene (S)	87	%	52-137		1	07/24/20 08:00	07/24/20 19:18	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	12.4	%	0.10	0.10	1		07/28/20 14:13		

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### ANALYTICAL RESULTS

Project: 317018 USH51  
Pace Project No.: 40211609

Sample: WM-C Lab ID: 40211609003 Collected: 07/22/20 12:45 Received: 07/23/20 12:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	563-58-6	W
1,2,3-Trichlorobenzene	<47.3	ug/kg	158	47.3	1	07/24/20 08:00	07/24/20 19:41	87-61-6	W
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	07/24/20 08:00	07/24/20 19:41	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	07/24/20 08:00	07/24/20 19:41	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	95-63-6	W
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	07/24/20 08:00	07/24/20 19:41	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 19:41	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 08:00	07/24/20 19:41	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	71-43-2	W
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 19:41	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	07/24/20 08:00	07/24/20 19:41	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	07/24/20 08:00	07/24/20 19:41	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	07/24/20 08:00	07/24/20 19:41	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	07/24/20 08:00	07/24/20 19:41	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	07/24/20 08:00	07/24/20 19:41	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	07/24/20 08:00	07/24/20 19:41	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	100-41-4	W
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	07/24/20 08:00	07/24/20 19:41	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	1634-04-4	W
Methylene Chloride	<26.3	ug/kg	88.0	26.3	1	07/24/20 08:00	07/24/20 19:41	75-09-2	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	07/24/20 08:00	07/24/20 19:41	91-20-3	W

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### ANALYTICAL RESULTS

Project: 317018 USH51  
Pace Project No.: 40211609

**Sample: WM-C**      **Lab ID: 40211609003**      Collected: 07/22/20 12:45      Received: 07/23/20 12:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Styrene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	100-42-5	W
Tetrachloroethene	216	ug/kg	149	44.7	1	07/24/20 08:00	07/24/20 19:41	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	07/24/20 08:00	07/24/20 19:41	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/24/20 08:00	07/24/20 19:41	179601-23-1	W
n-Butylbenzene	<30.0	ug/kg	100	30.0	1	07/24/20 08:00	07/24/20 19:41	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/24/20 08:00	07/24/20 19:41	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:41	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	72.0	25.0	1	07/24/20 08:00	07/24/20 19:41	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 08:00	07/24/20 19:41	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	67.0	25.0	1	07/24/20 08:00	07/24/20 19:41	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	74.0	25.0	1	07/24/20 08:00	07/24/20 19:41	10061-02-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	123	%	58-145		1	07/24/20 08:00	07/24/20 19:41	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	07/24/20 08:00	07/24/20 19:41	2037-26-5	
4-Bromofluorobenzene (S)	88	%	52-137		1	07/24/20 08:00	07/24/20 19:41	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	13.4	%	0.10	0.10	1		07/28/20 14:13		

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### QUALITY CONTROL DATA

Project: 317018 USH51  
Pace Project No.: 40211609

QC Batch: 361128 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40211609001, 40211609002, 40211609003

METHOD BLANK: 2087694 Matrix: Solid  
Associated Lab Samples: 40211609001, 40211609002, 40211609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	07/24/20 09:30	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	07/24/20 09:30	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	07/24/20 09:30	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	07/24/20 09:30	
1,1-Dichloroethane	ug/kg	<13.5	50.0	07/24/20 09:30	
1,1-Dichloroethene	ug/kg	<11.8	50.0	07/24/20 09:30	
1,1-Dichloropropene	ug/kg	<10.7	50.0	07/24/20 09:30	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	07/24/20 09:30	
1,2,3-Trichloropropane	ug/kg	<37.4	125	07/24/20 09:30	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	07/24/20 09:30	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	07/24/20 09:30	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	07/24/20 09:30	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	07/24/20 09:30	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	07/24/20 09:30	
1,2-Dichloroethane	ug/kg	<13.8	50.0	07/24/20 09:30	
1,2-Dichloropropane	ug/kg	<13.5	50.0	07/24/20 09:30	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	07/24/20 09:30	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	07/24/20 09:30	
1,3-Dichloropropane	ug/kg	<11.0	50.0	07/24/20 09:30	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	07/24/20 09:30	
2,2-Dichloropropane	ug/kg	<15.7	52.0	07/24/20 09:30	
2-Chlorotoluene	ug/kg	<19.3	64.0	07/24/20 09:30	
4-Chlorotoluene	ug/kg	<19.3	64.0	07/24/20 09:30	
Benzene	ug/kg	<12.5	42.0	07/24/20 09:30	
Bromobenzene	ug/kg	<18.5	62.0	07/24/20 09:30	
Bromochloromethane	ug/kg	<20.9	70.0	07/24/20 09:30	
Bromodichloromethane	ug/kg	<10.0	50.0	07/24/20 09:30	
Bromoform	ug/kg	<21.6	72.0	07/24/20 09:30	
Bromomethane	ug/kg	<63.8	250	07/24/20 09:30	
Carbon tetrachloride	ug/kg	<7.5	50.0	07/24/20 09:30	
Chlorobenzene	ug/kg	<16.8	56.0	07/24/20 09:30	
Chloroethane	ug/kg	<46.4	250	07/24/20 09:30	
Chloroform	ug/kg	<47.5	250	07/24/20 09:30	
Chloromethane	ug/kg	<24.0	80.0	07/24/20 09:30	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	07/24/20 09:30	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	07/24/20 09:30	
Dibromochloromethane	ug/kg	<229	763	07/24/20 09:30	
Dibromomethane	ug/kg	<17.7	59.0	07/24/20 09:30	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	07/24/20 09:30	
Diisopropyl ether	ug/kg	<14.0	50.0	07/24/20 09:30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 317018 USH51  
Pace Project No.: 40211609

METHOD BLANK: 2087694 Matrix: Solid  
Associated Lab Samples: 40211609001, 40211609002, 40211609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	07/24/20 09:30	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	07/24/20 09:30	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	07/24/20 09:30	
m&p-Xylene	ug/kg	<32.4	108	07/24/20 09:30	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	07/24/20 09:30	
Methylene Chloride	ug/kg	<26.3	88.0	07/24/20 09:30	
n-Butylbenzene	ug/kg	<30.0	100	07/24/20 09:30	
n-Propylbenzene	ug/kg	<17.8	59.0	07/24/20 09:30	
Naphthalene	ug/kg	<27.3	91.0	07/24/20 09:30	
o-Xylene	ug/kg	<18.1	60.0	07/24/20 09:30	
p-Isopropyltoluene	ug/kg	<21.7	72.0	07/24/20 09:30	
sec-Butylbenzene	ug/kg	<21.5	72.0	07/24/20 09:30	
Styrene	ug/kg	<12.3	50.0	07/24/20 09:30	
tert-Butylbenzene	ug/kg	<18.7	62.0	07/24/20 09:30	
Tetrachloroethene	ug/kg	<38.7	129	07/24/20 09:30	
Toluene	ug/kg	<13.1	50.0	07/24/20 09:30	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	07/24/20 09:30	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	07/24/20 09:30	
Trichloroethene	ug/kg	<12.8	50.0	07/24/20 09:30	
Trichlorofluoromethane	ug/kg	<19.6	65.0	07/24/20 09:30	
Vinyl chloride	ug/kg	<14.5	50.0	07/24/20 09:30	
4-Bromofluorobenzene (S)	%	86	52-137	07/24/20 09:30	
Dibromofluoromethane (S)	%	117	58-145	07/24/20 09:30	
Toluene-d8 (S)	%	98	56-140	07/24/20 09:30	

LABORATORY CONTROL SAMPLE: 2087695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2780	111	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2780	111	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2410	96	70-130	
1,1-Dichloroethane	ug/kg	2500	2670	107	69-143	
1,1-Dichloroethene	ug/kg	2500	2270	91	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2340	94	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2830	113	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2450	98	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2430	97	70-130	
1,2-Dichloroethane	ug/kg	2500	2610	104	70-130	
1,2-Dichloropropane	ug/kg	2500	2470	99	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2380	95	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2280	91	70-130	
Benzene	ug/kg	2500	2320	93	70-130	
Bromodichloromethane	ug/kg	2500	2470	99	70-130	
Bromoform	ug/kg	2500	2300	92	67-130	

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### QUALITY CONTROL DATA

Project: 317018 USH51

Pace Project No.: 40211609

LABORATORY CONTROL SAMPLE: 2087695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2380	95	45-134	
Carbon tetrachloride	ug/kg	2500	2630	105	70-130	
Chlorobenzene	ug/kg	2500	2350	94	70-130	
Chloroethane	ug/kg	2500	2550	102	58-143	
Chloroform	ug/kg	2500	2640	106	76-122	
Chloromethane	ug/kg	2500	1870	75	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2600	104	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2280	91	70-130	
Dibromochloromethane	ug/kg	2500	2210	88	70-130	
Dichlorodifluoromethane	ug/kg	2500	1450	58	26-99	
Ethylbenzene	ug/kg	2500	2400	96	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	94	70-130	
m&p-Xylene	ug/kg	5000	4740	95	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2470	99	70-130	
Methylene Chloride	ug/kg	2500	2150	86	70-130	
o-Xylene	ug/kg	2500	2340	93	70-130	
Styrene	ug/kg	2500	2390	96	70-130	
Tetrachloroethene	ug/kg	2500	2290	92	70-130	
Toluene	ug/kg	2500	2370	95	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2890	115	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2280	91	70-130	
Trichloroethene	ug/kg	2500	2420	97	70-130	
Trichlorofluoromethane	ug/kg	2500	2450	98	70-128	
Vinyl chloride	ug/kg	2500	2140	86	53-110	
4-Bromofluorobenzene (S)	%			93	52-137	
Dibromofluoromethane (S)	%			104	58-145	
Toluene-d8 (S)	%			91	56-140	

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### QUALITY CONTROL DATA

Project: 317018 USH51

Pace Project No.: 40211609

QC Batch: 361454

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40211609001, 40211609002, 40211609003

SAMPLE DUPLICATE: 2089719

Parameter	Units	40211609003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.4	13.5	1	10	

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## QUALIFIERS

Project: 317018 USH51

Pace Project No.: 40211609

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 317018 USH51  
Pace Project No.: 40211609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40211609001	WM-A	EPA 5035/5030B	361128	EPA 8260	361137
40211609002	WM-B	EPA 5035/5030B	361128	EPA 8260	361137
40211609003	WM-C	EPA 5035/5030B	361128	EPA 8260	361137
40211609001	WM-A	ASTM D2974-87	361454		
40211609002	WM-B	ASTM D2974-87	361454		
40211609003	WM-C	ASTM D2974-87	361454		

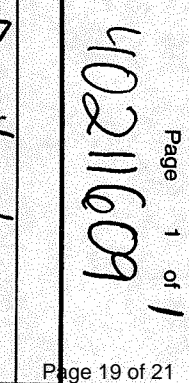
**REPORT OF LABORATORY ANALYSIS**

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(Please Print Clearly)

Company Name:	TRC
Branch/Location:	Madison
Project Contact:	Dan Haack
Phone:	608 826-3628
Project Number:	317018
Project Name:	USH 51 Portage
Project State:	WI
Sampled By (Print):	Dan Haack
Sampled By (Sign):	Dan Haack
PO #:	
Data Package Options (billable)	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV
MSMSD (billable)	<input type="checkbox"/> On your sample <input type="checkbox"/> NOT needed on your sample
Matrix Codes	A = Air B = Bioa C = Charcoal O = Oil S = Soil SI = Sludge W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe
Regulatory Program:	

### CHAIN OF CUSTODY



www.faceanalytical.com

UPPER MIDWEST REGION  
MN: 612-607-1700 WI: 920-469-2436

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	
		DATE	TIME		V/I/N	Pick Letter
001	WM-A	11/20/10	10:30	S	X	VOCs
002	WM-B	11/20/10	11:00	S	X	dehywt.
003	WM-C	11/20/10	12:45	S	X	

Quote #:	
Mail To Contact:	Dan Haack
Mail To Company:	TRC
Mail To Address:	708 Westportland Tr. Ste 300 Madison WI 53717
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	SARHP
Invoice To Phone:	
CLIENT COMMENTS	
LAB COMMENTS (Lab Use Only)	
Profile #	

Relinquished By: Dan Haack Date/Time: 11/23/10 12:10  
Received By: [Signature] Date/Time: 11/23/10 12:10

Relinquished By: [Signature] Date/Time: [Blank]  
Received By: [Signature] Date/Time: [Blank]

Relinquished By: [Signature] Date/Time: [Blank]  
Received By: [Signature] Date/Time: [Blank]

FACE PROJECT NO. 40211609

Receipt Temp = 20.7 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

Client Name: TRC Sample Preservation Receipt Form  
 Project # 40211609

Pace Analytical Services, LLC  
 1241 Bellevue Street, Suite 9  
 Green Bay, WI 54302

All containers needing preservation have been checked and noted below.  Yes  No  N/A

Lab Lot# of pH paper:

Lab Sid #/D of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Page Lab #	Glass	Plastic	Viols	Jars	General	VOA Viols (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	AG1U											2.5 / 5 / 10
002	BG1U											2.5 / 5 / 10
003	AG1H											2.5 / 5 / 10
004	AG4S											2.5 / 5 / 10
005	AG4U											2.5 / 5 / 10
006	AG5U											2.5 / 5 / 10
007	AG2S											2.5 / 5 / 10
008	BG3U											2.5 / 5 / 10
009	BP1U											2.5 / 5 / 10
010	BP3U											2.5 / 5 / 10
011	BP3B											2.5 / 5 / 10
012	BP3N											2.5 / 5 / 10
013	BP3S											2.5 / 5 / 10
014	VG9A											2.5 / 5 / 10
015	DG9T											2.5 / 5 / 10
016	VG9U											2.5 / 5 / 10
017	VG9H											2.5 / 5 / 10
018	VG9M											2.5 / 5 / 10
019	VG9D											2.5 / 5 / 10
020	JGFU											2.5 / 5 / 10
	JG9U											2.5 / 5 / 10
	WGFU											2.5 / 5 / 10
	WPFU											2.5 / 5 / 10
	SP5T											2.5 / 5 / 10
	ZPLC											2.5 / 5 / 10
	GN											2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_ Headspace in VOA Viols (<6mm) :  Yes  No  N/A \*if yes look in headdress column


AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

*7/23/20 8:20*

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

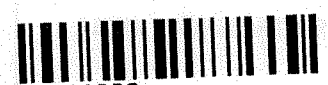
Client Name: TRC Project #: \_\_\_\_\_

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

**WO# : 40211609**



40211609

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - N/A Type of Ice:  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: \_\_\_\_\_

Temp Blank Present: <sup>7/23/20</sup>  Yes  No Biological Tissue is Frozen:  yes  no

Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:  
 Date: 7/23/20 /Initials: SKW  
 Labeled By Initials: WJ

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>No date &amp; time on all WPPA's.</i>
-Includes date/time/ID/Analysis Matrix: <u>S</u>		<i>7/23/20 SKW</i>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

August 12, 2020

DAN HAAK  
TRC - MADISON  
708 HEARTLAND TRAIL  
Madison, WI 53717

RE: Project: 317018 USH 51 PORTAGE  
Pace Project No.: 40212161

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Tod Noltemeyer  
tod.noltemeyer@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Tom Perkins, TRC Madison  
Peggy Popp, TRC - Madison



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40212161001	WM-D	Solid	07/30/20 09:30	08/03/20 07:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40212161001	WM-D	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	MLR	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40212161001</b>	<b>WM-D</b>					
EPA 8260	Tetrachloroethene	379	ug/kg	159	08/11/20 20:01	
ASTM D2974-87	Percent Moisture	18.9	%	0.10	08/11/20 14:27	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 317018 USH 51 PORTAGE  
Pace Project No.: 40212161

---

**Method:** EPA 8260  
**Description:** 8260 MSV Med Level Normal List  
**Client:** TRC - MADISON  
**Date:** August 12, 2020

**General Information:**

1 sample was analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

Sample: WM-D Lab ID: 40212161001 Collected: 07/30/20 09:30 Received: 08/03/20 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	563-58-6	W
1,2,3-Trichlorobenzene	<47.3	ug/kg	158	47.3	1	08/06/20 08:30	08/11/20 20:01	87-61-6	W
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	08/06/20 08:30	08/11/20 20:01	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	08/06/20 08:30	08/11/20 20:01	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	95-63-6	W
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	08/06/20 08:30	08/11/20 20:01	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	08/06/20 08:30	08/11/20 20:01	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	08/06/20 08:30	08/11/20 20:01	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	71-43-2	W
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	08/06/20 08:30	08/11/20 20:01	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	08/06/20 08:30	08/11/20 20:01	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	08/06/20 08:30	08/11/20 20:01	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	08/06/20 08:30	08/11/20 20:01	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	08/06/20 08:30	08/11/20 20:01	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	08/06/20 08:30	08/11/20 20:01	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	08/06/20 08:30	08/11/20 20:01	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	100-41-4	W
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	08/06/20 08:30	08/11/20 20:01	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	1634-04-4	W
Methylene Chloride	<26.3	ug/kg	88.0	26.3	1	08/06/20 08:30	08/11/20 20:01	75-09-2	W
Naphthalene	<27.3	ug/kg	91.0	27.3	1	08/06/20 08:30	08/11/20 20:01	91-20-3	W

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

**Sample: WM-D**      **Lab ID: 40212161001**      Collected: 07/30/20 09:30      Received: 08/03/20 07:30      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Styrene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	100-42-5	W
Tetrachloroethene	379	ug/kg	159	47.7	1	08/06/20 08:30	08/11/20 20:01	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	08/06/20 08:30	08/11/20 20:01	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/06/20 08:30	08/11/20 20:01	179601-23-1	W
n-Butylbenzene	<30.0	ug/kg	100	30.0	1	08/06/20 08:30	08/11/20 20:01	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/06/20 08:30	08/11/20 20:01	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	72.0	25.0	1	08/06/20 08:30	08/11/20 20:01	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	72.0	25.0	1	08/06/20 08:30	08/11/20 20:01	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	62.0	25.0	1	08/06/20 08:30	08/11/20 20:01	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	67.0	25.0	1	08/06/20 08:30	08/11/20 20:01	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	74.0	25.0	1	08/06/20 08:30	08/11/20 20:01	10061-02-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	107	%	58-145		1	08/06/20 08:30	08/11/20 20:01	1868-53-7	
Toluene-d8 (S)	110	%	56-140		1	08/06/20 08:30	08/11/20 20:01	2037-26-5	
4-Bromofluorobenzene (S)	96	%	52-137		1	08/06/20 08:30	08/11/20 20:01	460-00-4	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	18.9	%	0.10	0.10	1		08/11/20 14:27		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 317018 USH 51 PORTAGE  
Pace Project No.: 40212161

QC Batch: 362253 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40212161001

METHOD BLANK: 2093792 Matrix: Solid  
Associated Lab Samples: 40212161001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	08/11/20 14:00	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	08/11/20 14:00	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	08/11/20 14:00	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	08/11/20 14:00	
1,1-Dichloroethane	ug/kg	<13.5	50.0	08/11/20 14:00	
1,1-Dichloroethene	ug/kg	<11.8	50.0	08/11/20 14:00	
1,1-Dichloropropene	ug/kg	<10.7	50.0	08/11/20 14:00	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	08/11/20 14:00	
1,2,3-Trichloropropane	ug/kg	<37.4	125	08/11/20 14:00	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	08/11/20 14:00	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	08/11/20 14:00	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	08/11/20 14:00	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	08/11/20 14:00	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	08/11/20 14:00	
1,2-Dichloroethane	ug/kg	<13.8	50.0	08/11/20 14:00	
1,2-Dichloropropane	ug/kg	<13.5	50.0	08/11/20 14:00	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	08/11/20 14:00	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	08/11/20 14:00	
1,3-Dichloropropane	ug/kg	<11.0	50.0	08/11/20 14:00	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	08/11/20 14:00	
2,2-Dichloropropane	ug/kg	<15.7	52.0	08/11/20 14:00	
2-Chlorotoluene	ug/kg	<19.3	64.0	08/11/20 14:00	
4-Chlorotoluene	ug/kg	<19.3	64.0	08/11/20 14:00	
Benzene	ug/kg	<12.5	42.0	08/11/20 14:00	
Bromobenzene	ug/kg	<18.5	62.0	08/11/20 14:00	
Bromochloromethane	ug/kg	<20.9	70.0	08/11/20 14:00	
Bromodichloromethane	ug/kg	<10.0	50.0	08/11/20 14:00	
Bromoform	ug/kg	<21.6	72.0	08/11/20 14:00	
Bromomethane	ug/kg	<63.8	250	08/11/20 14:00	
Carbon tetrachloride	ug/kg	<7.5	50.0	08/11/20 14:00	
Chlorobenzene	ug/kg	<16.8	56.0	08/11/20 14:00	
Chloroethane	ug/kg	<46.4	250	08/11/20 14:00	
Chloroform	ug/kg	<47.5	250	08/11/20 14:00	
Chloromethane	ug/kg	<24.0	80.0	08/11/20 14:00	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	08/11/20 14:00	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	08/11/20 14:00	
Dibromochloromethane	ug/kg	<229	763	08/11/20 14:00	
Dibromomethane	ug/kg	<17.7	59.0	08/11/20 14:00	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	08/11/20 14:00	
Diisopropyl ether	ug/kg	<14.0	50.0	08/11/20 14:00	

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### QUALITY CONTROL DATA

Project: 317018 USH 51 PORTAGE  
Pace Project No.: 40212161

METHOD BLANK: 2093792 Matrix: Solid  
Associated Lab Samples: 40212161001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	08/11/20 14:00	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	08/11/20 14:00	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	08/11/20 14:00	
m&p-Xylene	ug/kg	<32.4	108	08/11/20 14:00	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	08/11/20 14:00	
Methylene Chloride	ug/kg	<26.3	88.0	08/11/20 14:00	
n-Butylbenzene	ug/kg	<30.0	100	08/11/20 14:00	
n-Propylbenzene	ug/kg	<17.8	59.0	08/11/20 14:00	
Naphthalene	ug/kg	<27.3	91.0	08/11/20 14:00	
o-Xylene	ug/kg	<18.1	60.0	08/11/20 14:00	
p-Isopropyltoluene	ug/kg	<21.7	72.0	08/11/20 14:00	
sec-Butylbenzene	ug/kg	<21.5	72.0	08/11/20 14:00	
Styrene	ug/kg	<12.3	50.0	08/11/20 14:00	
tert-Butylbenzene	ug/kg	<18.7	62.0	08/11/20 14:00	
Tetrachloroethene	ug/kg	<38.7	129	08/11/20 14:00	
Toluene	ug/kg	<13.1	50.0	08/11/20 14:00	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	08/11/20 14:00	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	08/11/20 14:00	
Trichloroethene	ug/kg	<12.8	50.0	08/11/20 14:00	
Trichlorofluoromethane	ug/kg	<19.6	65.0	08/11/20 14:00	
Vinyl chloride	ug/kg	<14.5	50.0	08/11/20 14:00	
4-Bromofluorobenzene (S)	%	86	52-137	08/11/20 14:00	
Dibromofluoromethane (S)	%	92	58-145	08/11/20 14:00	
Toluene-d8 (S)	%	100	56-140	08/11/20 14:00	

LABORATORY CONTROL SAMPLE: 2093793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2550	102	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2530	101	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2570	103	69-143	
1,1-Dichloroethene	ug/kg	2500	2490	100	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2410	96	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2070	83	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2490	100	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2280	91	70-130	
1,2-Dichloropropane	ug/kg	2500	2740	110	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2510	100	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2390	96	70-130	
Benzene	ug/kg	2500	2420	97	70-130	
Bromodichloromethane	ug/kg	2500	2430	97	70-130	
Bromoform	ug/kg	2500	2030	81	67-130	

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### QUALITY CONTROL DATA

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

LABORATORY CONTROL SAMPLE: 2093793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2050	82	45-134	
Carbon tetrachloride	ug/kg	2500	2510	100	70-130	
Chlorobenzene	ug/kg	2500	2490	100	70-130	
Chloroethane	ug/kg	2500	2240	90	58-143	
Chloroform	ug/kg	2500	2460	98	76-122	
Chloromethane	ug/kg	2500	2590	104	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2250	90	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2210	88	70-130	
Dibromochloromethane	ug/kg	2500	2220	89	70-130	
Dichlorodifluoromethane	ug/kg	2500	1930	77	26-99	
Ethylbenzene	ug/kg	2500	2530	101	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2490	100	70-130	
m&p-Xylene	ug/kg	5000	4990	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2180	87	70-130	
Methylene Chloride	ug/kg	2500	2380	95	70-130	
o-Xylene	ug/kg	2500	2520	101	70-130	
Styrene	ug/kg	2500	2300	92	70-130	
Tetrachloroethene	ug/kg	2500	2720	109	70-130	
Toluene	ug/kg	2500	2510	101	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2700	108	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2210	88	70-130	
Trichloroethene	ug/kg	2500	2610	104	70-130	
Trichlorofluoromethane	ug/kg	2500	2200	88	70-128	
Vinyl chloride	ug/kg	2500	2470	99	53-110	
4-Bromofluorobenzene (S)	%			95	52-137	
Dibromofluoromethane (S)	%			98	58-145	
Toluene-d8 (S)	%			101	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2093794 2093795

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40212306007	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1560	1560	1370	1460	88	94	66-130	7	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1560	1560	1560	1570	100	101	70-133	1	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1560	1560	1520	1580	97	101	70-130	4	20		
1,1-Dichloroethane	ug/kg	<25.0	1560	1560	1550	1570	99	101	69-143	2	20		
1,1-Dichloroethene	ug/kg	<25.0	1560	1560	1390	1510	89	97	58-120	8	20		
1,2,4-Trichlorobenzene	ug/kg	<41.7	1560	1560	1640	1570	105	101	60-130	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	<237	1560	1560	1160	1230	74	79	59-136	6	20		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1560	1560	1470	1510	94	97	70-130	3	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1560	1560	1540	1540	99	99	70-130	0	20		
1,2-Dichloroethane	ug/kg	<25.0	1560	1560	1350	1430	87	91	70-136	5	20		
1,2-Dichloropropane	ug/kg	<25.0	1560	1560	1540	1660	99	106	78-128	8	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1560	1560	1550	1520	99	98	70-130	2	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 317018 USH 51 PORTAGE  
Pace Project No.: 40212161

Parameter	Units	2093794		2093795		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40212306007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,4-Dichlorobenzene	ug/kg	<25.0	1560	1560	1470	1480	94	95	70-130	0	20
Benzene	ug/kg	<25.0	1560	1560	1410	1490	90	95	70-130	5	20
Bromodichloromethane	ug/kg	<25.0	1560	1560	1360	1440	87	92	70-130	5	20
Bromoform	ug/kg	<25.0	1560	1560	1420	1370	91	88	63-130	4	20
Bromomethane	ug/kg	<63.8	1560	1560	1260	1260	81	81	33-146	0	20
Carbon tetrachloride	ug/kg	<25.0	1560	1560	1480	1480	95	95	65-130	0	20
Chlorobenzene	ug/kg	<25.0	1560	1560	1490	1560	96	100	70-130	4	20
Chloroethane	ug/kg	<46.4	1560	1560	1080	1080	69	69	46-156	0	20
Chloroform	ug/kg	<47.5	1560	1560	1450	1490	93	96	75-130	3	20
Chloromethane	ug/kg	<25.0	1560	1560	1400	1420	90	91	20-139	1	20
cis-1,2-Dichloroethene	ug/kg	<25.0	1560	1560	1340	1360	86	87	69-130	1	20
cis-1,3-Dichloropropene	ug/kg	<42.3	1560	1560	1330	1400	85	90	70-130	6	20
Dibromochloromethane	ug/kg	<229	1560	1560	1440	1480	93	95	70-130	2	20
Dichlorodifluoromethane	ug/kg	<25.0	1560	1560	1040	1090	66	70	10-99	5	22
Ethylbenzene	ug/kg	<25.0	1560	1560	1490	1530	95	98	80-120	3	20
Isopropylbenzene (Cumene)	ug/kg	<25.0	1560	1560	1420	1500	91	96	70-130	5	20
m&p-Xylene	ug/kg	<50.0	3120	3120	2850	3000	91	96	70-130	5	20
Methyl-tert-butyl ether	ug/kg	<25.0	1560	1560	1280	1380	82	89	70-130	7	20
Methylene Chloride	ug/kg	<26.3	1560	1560	1500	1520	96	98	70-136	1	20
o-Xylene	ug/kg	<25.0	1560	1560	1400	1510	90	97	70-130	8	20
Styrene	ug/kg	<25.0	1560	1560	1380	1390	89	89	70-130	1	20
Tetrachloroethene	ug/kg	<38.7	1560	1560	1640	1740	105	111	68-130	6	20
Toluene	ug/kg	<25.0	1560	1560	1530	1560	98	100	80-120	2	20
trans-1,2-Dichloroethene	ug/kg	<25.0	1560	1560	1600	1630	103	104	70-130	2	20
trans-1,3-Dichloropropene	ug/kg	<25.0	1560	1560	1330	1390	85	89	70-130	5	20
Trichloroethene	ug/kg	<25.0	1560	1560	1480	1610	95	103	70-130	8	20
Trichlorofluoromethane	ug/kg	<25.0	1560	1560	1270	1450	81	93	53-128	13	20
Vinyl chloride	ug/kg	<25.0	1560	1560	1440	1510	92	97	32-118	4	20
4-Bromofluorobenzene (S)	%						94	91	52-137		
Dibromofluoromethane (S)	%						96	97	58-145		
Toluene-d8 (S)	%						100	100	56-140		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

QC Batch: 362671

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40212161001

SAMPLE DUPLICATE: 2096020

Parameter	Units	40212648001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.5	18.0	3	10	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 317018 USH 51 PORTAGE

Pace Project No.: 40212161

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
40212161001	WM-D	EPA 5035/5030B	362253	EPA 8260	362255
40212161001	WM-D	ASTM D2974-87	362671		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: TRC  
 Branch/Location: Madison  
 Project Contact: Don Hawk  
 Phone: 608 826-3628  
 Project Number: 317018  
 Project Name: USH SI Portage  
 Project State: WI  
 Sampled By (Print): Tom v. Perkins  
 Sampled By (Sign): *[Signature]*  
 PO #:   
 Regulatory Program:   
 Data Package Options (billable):  
 EPA Level III  On your sample (billable)  
 EPA Level IV  NOT needed on your sample  
 Matrix Codes:  
 A = Air, B = Bioa, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WP = Waste Water  
 PAGE LAB #: 001 CLIENT FIELD ID: Wm-D DATE: 7/30/06 TIME: 0930 MATRIX: CW



# CHAIN OF CUSTODY

Preservation Codes:  
 A=None, B=HCL, C=H2SO4, D=HNO3, E=DI Water, F=Methanol, G=NaOH  
 H=Sodium Bisulfate Solution, I=Sodium Thiosulfate, J=Other

Y/N	Pick Letter	Analyses Requested
N	F	VOCs
N	A	Asbestos

Relinquished By: *[Signature]* Date/Time: 7/31/06 / 1400  
 Relinquished By: *[Signature]* Date/Time: 8/3/06 / 0730  
 Relinquished By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Samples on HOLD are subject to special pricing and release of liability

UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1  
 40212161

Quote #:   
 Mail To Contact: Don Hawk  
 Mail To Company: TRC Heartland Tr. Suite 300 Madison WI 53717  
 Mail To Address:   
 Invoice To Contact:   
 Invoice To Company:   
 Invoice To Address:   
 Invoice To Phone:   
 CLIENT COMMENTS:   
 LAB COMMENTS (Lab Use Only):   
 Profile #

Relinquished By: *[Signature]* Date/Time: 7/31/06 / 1400  
 Relinquished By: *[Signature]* Date/Time: 8/3/06 / 0730  
 Relinquished By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 Received By: *[Signature]* Date/Time:   
 PACE Project No. 40212161  
 Receipt Temp = 95.5 °C  
 Sample Receipt pH:   
 Cooler Custody Seal:   
 Present / Not Present:   
 Intact / Not Intact:   
 Version 6.0 06/14/05

00196072 Jun2006

ORIGINAL

40212161

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**From:** Dan Milewsky  
**Sent:** Monday, August 3, 2020 9:54 AM  
**To:** Susan Wylie  
**Subject:** RE: OVER TEMP COOLERS

Susan,

TRC can be logged per client.

Hold Kennedy for now. And they will want that cooler back so please secure it.

Dan

---

**From:** Susan Wylie <[Susan.Wylie@pacelabs.com](mailto:Susan.Wylie@pacelabs.com)>  
**Sent:** Monday, August 3, 2020 9:51 AM  
**To:** Dan Milewsky <[Dan.Milewsky@pacelabs.com](mailto:Dan.Milewsky@pacelabs.com)>  
**Subject:** RE: OVER TEMP COOLERS

TRC cooler temp 25.5 Project# 317018  
Was a Saturday del. On label – received today.

Jeanne Kennedy cooler temp. 23.5. Check inclosed.

Shall I process?

Sent from Mail for Windows 10

Client Name: TRC

### Sample Preservation Receipt Form

Project # 40212161

Pace Analytical Services, LLC  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper:

Lab Sid #/ID of preservation (if pH adjusted):

Initial when completed:


Date/Time:

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001												2.5 / 5 / 10
002												2.5 / 5 / 10
003												2.5 / 5 / 10
004												2.5 / 5 / 10
005												2.5 / 5 / 10
006												2.5 / 5 / 10
007												2.5 / 5 / 10
008												2.5 / 5 / 10
009												2.5 / 5 / 10
010												2.5 / 5 / 10
011												2.5 / 5 / 10
012												2.5 / 5 / 10
013												2.5 / 5 / 10
014												2.5 / 5 / 10
015												2.5 / 5 / 10
016												2.5 / 5 / 10
017												2.5 / 5 / 10
018												2.5 / 5 / 10
019												2.5 / 5 / 10
020												2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_

Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG6U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Client Name: TRC  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_  
**WO# : 40212161**  
  
 40212161

Tracking #: 815377260726  
 Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no    Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used SR - 83    Type of Ice: Wet Blue Dry None  Samples on ice, cooling process has begun  
 Cooler Temperature    Uncorr: 25 /Corr: 25.5  
 Temp Blank Present:  yes  no    Biological Tissue is Frozen:  yes  no

Melt water only    8320  
8W

Person examining contents:  
 Date: 8/3/20 /Initials: SKW  
 Labeled By Initials: MH

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis    Matrix: <u>5</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: Per client run over temp.    83-20 SKW

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir