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Suite 3000
Madison, WI 53717

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September 8, 2020

Mr. Grant Nietzel
Wisconsin Department of Natural Resources
Superior Service Center
1701 N 4th Street
Superior, WI 54880

Subject: Phase 2/2.5 Investigation
USH 8, West 8th Street North to River Avenue East
Ladysmith, Rusk County, Wisconsin
WisDOT Project ID #1580-31-00

Dear Mr. Nietzel:

Enclosed is the Phase 2/2.5 Site Investigation Report for the USH 8 project, West 8th Street North to River Avenue West, project in Ladysmith, Wisconsin. Contaminated soil was encountered during the investigation within the limits of construction at the following location:

- **Site 6** (Former Fuel Station) – Station 343+10 to 343+70, from reference line to limits on RT

TRC recommends that soil excavated at the above locations be observed by the environmental consultant to observe if any evidence of a source of contamination is present. We request the WDNR review this report and attached Special Provisions and provide concurrence by September 30, 2020.

Feel free to contact me, at (608) 826-3628, with questions or comments.

Sincerely,

TRC

Dan Haak
Project Manager

cc: Aaron Gustafson – WisDOT (pdf via email)
Shar TeBeest – WisDOT (pdf via email)

Phase 2/2.5 Investigation

USH 8, West 8th Street North to River Avenue East
Ladysmith, Rusk County, Wisconsin

September 2020

WisDOT Project #1580-31-00

Prepared For:

Wisconsin Department of Transportation

Prepared By:

TRC
708 Heartland Trail, Suite 3000
Madison, Wisconsin 53717

Liz Hoerning, P.E.
Staff Engineer

Dan Haak, P.E.
Project Manager

Ted O'Connell
TRC Quality Assurance

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

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 Wisconsin Department of Transportation (WisDOT) is planning highway improvements along USH 8 (Lake Ave. West) from West 8th Street North to River Avenue in Ladysmith, Wisconsin (WisDOT Project ID #1580-31-00). Maximum depth of excavations is estimated to be 4 feet below ground surface (bgs) for select storm sewer inlet replacements. Limited real estate acquisitions are planned for the project at Sites 2, 3, 4, and 6.

On June 18, 2020, TRC Environmental Corporation (TRC) and TRC's Geoprobe® subcontractor completed a Phase 2/2.5 Investigation to identify and evaluate the nature and extent of potential soil contamination within the limits of construction of the USH 8 corridor. The investigation was completed at four sites identified during a background review completed by the WisDOT. The results of the investigation conclude that potential contaminated soil of concern is present within the limits of construction at the following location:

- **Site 6** (Former Fuel Station) – Station 343+10 to 343+70, from reference line to limits on LT

Based on observations during this investigation and water level measurement data from a nearby site investigation, groundwater is not likely to be encountered during the proposed USH 8 improvements.

TRC recommends that soil excavated at the above location be field screened by an environmental consultant during excavations for the reconstruction of USH 8 to determine if there is any evidence of soil contamination .

Special Provisions for the management of potentially contaminated soil have been included in this report and should be reviewed by the WDNR. TRC recommends the WisDOT complete no further investigation at these sites.

1.0 Background

1.1 Proposed Roadway and Utility Construction

The Wisconsin Department of Transportation (WisDOT) is planning highway improvements along USH 8 between the intersection of West 8th Street North and River Avenue East in the City of Ladysmith, Rusk County, Wisconsin (WisDOT Project ID #1580-31-00). A site location map is presented on Figure 1. The plans, specifications, and estimate (PS&E) is November 2020 and construction on the project is anticipated to begin in 2021.

The preliminary construction drawings are included in Appendix A. The proposed improvements include replacement of roadway pavement, sidewalk, and curb ramp, as well as rail crossing upgrades, and relocating storm sewer inlets and piping. Maximum depth of excavations is estimated to be 4 feet bgs for select storm sewer inlet replacements. Groundwater is not anticipated to be encountered during construction.

The project will require minor temporary limited easement at some locations throughout the project and fee acquisition at a few locations. Acquisition areas at sites included in this investigation are summarized in Table 1 and are shown on the Project Plat Map included in Appendix A.

1.2 Previous Site Investigations

A background review for the project corridor was completed by the WisDOT in June 2019. The review identified nine sites for potential hazardous materials. Of the nine sites identified, four were recommended for additional subsurface investigation. All investigated sites are summarized in Table 1. Site-specific information from the WisDOT Factor Sheet is located in Appendix B.

2.0 Phase 2/2.5 Investigation

2.1 Investigation

The WisDOT retained TRC to perform a Phase 2/2.5 Investigation of the USH 8 construction corridor to identify and determine the nature and extent of soil contamination within the construction limits. Representatives from TRC and TRC's Geoprobe® subcontractor, On-Site Environmental Services, Inc. (On-Site) were in Ladysmith, Wisconsin on June 18, 2020 to complete five soil borings, and collect soil samples for laboratory analysis. Photographs are included in Appendix C, and boring locations are shown in Figure 2.

Soil borings were drilled using a truck-mounted Geoprobe and advanced to depths of 5 feet bgs. Each boring was continuously logged by TRC staff according to the United Soil Classification System (USCS) and field-screened for staining, odors, and headspace using a PID. Native soil in the area of the investigation consists predominantly of sand and some silty sand and clay. Fill was observed from 4.5 to 5.0 feet bgs in boring GP-04; and a PID reading of 1.3ppm. PID readings collected at the remaining four borings were found to be <1 ppm. The PID readings for each soil sample interval are included in the boring logs in Appendix D and are summarized in Table 2.

One soil sample interval was selected from each boring, placed in laboratory-provided containers, and submitted to Pace Analytical (Pace)for laboratory analysis for a combination of VOCs, PVOCs/naphthalene, DRO, and GRO. In borings where field screening indicated potential impacts, the soil sample interval with the highest potential for impacts was collected for analysis. If no potential impacts were observed during field-screening, then a soil sample was collected from the depth interval most likely impacted based on historic information or from within the proposed depths of excavation. Analytical results are summarized in Table 2 and the complete laboratory report is included in Appendix E.

Each boring was abandoned immediately following sample collection using 3/8" bentonite chips and the surface was patched to match the surrounding concrete surface materials. Borehole abandonment forms are included in Appendix D.

Groundwater was not encountered during the investigation, and as such was not sampled. Evidence of soil impacts were observed during the field investigation at Site 6 where fee acquisition is planned. The measured depth to groundwater from another recent investigation located nearby was greater than 20 feet bgs, significantly deeper than planned construction activities along the corridor. Therefore, no dewatering is expected for this project.

2.2 Soil Analytical Results

Soil samples were submitted to Pace for laboratory analysis for a combination of VOCs, PVOCs/naphthalene, lead, DRO, and GRO. The complete laboratory report is included in Appendix E, and the results are summarized and compared to the applicable WDNR NR 720 RCLs in Table 2.

The results from the soil sampling indicate that petroleum-related contamination is present at Site 6. Site 6, former fuel station had the highest concentrations of DRO and lead. Soil sample results from 0-2.5 ft bgs in soil boring GP-5 collected at this location indicate concentrations of lead and DRO. However, no WDNR NR 720 RCLs were exceeded in any of the soil samples. As such, no Notification of Hazardous Substances Discharge Form (WDNR Form 4400-225) will be completed for these sites.

2.3 Investigation Derived Waste

All disposable investigative derived waste (IDW), including Geoprobe liners, tubing, gloves, bags, etc. was collected and disposed of as solid waste. Soil cuttings generated during this investigation were containerized and stored at the Ladysmith Municipal Garage located at 300 Minor Avenue West until results were received. Due to the presence of impacts to the soil, the containerized soil will be disposed of under the WisDOT's hazardous waste disposal contract with Veolia Environmental Services (Appendix F).

3.0 Conclusions and Recommendations

3.1 Real Estate Acquisitions

Real estate acquisitions planned for the project include fee acquisition and PLE at all four sites investigated for potential contamination. Based on the concentrations of DRO reported in the soil sample collected at GP-5, there is evidence that petroleum-related contamination is present at Site 6. The acquisition requirements proposed for the four sites evaluated in the Phase 2/2.5 investigation are summarized in Table 1 and shown on the Project Plat Map included in Appendix A. Site 6 will require a small amount of fee acquisition within potentially contaminated parcels for curb ramp construction.

3.2 Contaminated Soil Management

Potentially contaminated soil was encountered during the investigation in soil boring GP-5 at Site 6, (DRO of 1,310 mg). Soil borings had detections of lead, but all were less than the Background Threshold Value (BTV) and all WDNR NR 720 RCLs. The soil sample collected at GP-4 and GP-05 contained DRO, however no concentrations are above NR 720 Soil RCLs and no evidence of significant contamination. Special Provisions should be included in the construction documents advising the contractor of these findings, and the requirements to manage potentially impacted soil at the following locations:

- **Site 6** (Former Gas Pumps) – Station 343+10 to 343+70, from reference line to 70 feet right of the reference line, from 0 to 5 feet bgs. TRC recommends that soil excavated at the locations listed above be field-screened by an environmental consultant during excavations during the reconstruction of USH 8 and managed as follows:
    - Soil with significant petroleum contamination will be hauled a WDNR-licensed landfill for bioremediation treatment and disposal. Soil will be considered to have significant contamination if it exhibits significant odor, staining, and/or elevated PID readings (for example, PID readings greater than 10 ppm), or identified with laboratory analytical results.
    - Soil exhibiting low-level contamination based on field-screening (for example, PID readings less than 10 ppm for petroleum contamination) will be considered suitable for reuse as backfill on the project.
- TRC estimates approximately 20 tons of petroleum-contaminated soil will require off-site treatment and disposal at a WDNR-licensed landfill.

Draft Special Provisions for the management of contaminated soil are included in Appendix G.

The caps over residual soil contamination at the current Holiday Station Store (605 Lake Avenue West, BRRTS# 03-55-000446), historic Goffin Oil (03-55-150407), and historic Ladysmith Standard (03-55-000232) sites will be disturbed for the planned curb ramp construction and roadway paving. The caps will be replaced in kind where it is disturbed for the planned construction activities. A post-closure modification request will be prepared and submitted to the WDNR for the cap replacement for these sites.

Based on the historic use along the corridor, the potential exists that currently unknown contamination may be encountered during construction. If currently unknown contamination is encountered, the engineer should be notified so that appropriate actions can be taken to identify and manage contaminated materials.

3.3 Conclusions

No further investigation is recommended for any of the investigated sites. Special Provisions for management of contaminated soil are included in Appendix G. TRC estimates approximately 20 tons of soil will require off-site bioremediation treatment and disposal at a WDNR-licensed landfill. Special Provisions for the management of contaminated groundwater are not required, as groundwater is deeper than the planned excavations.

3.4 Request for WDNR Reviews

TRC has prepared draft Special Provisions for the management of contaminated soil during construction (Appendix G). TRC recommends that the WDNR review this report and the attached Special Provisions as the Excavation Management Plan (EMP) for the project. If acceptable, the WDNR should respond with a concurrence letter for the EMP.

Table 1: Investigation Summary
USH 8 Ladysmith - Phase 2/2.5 Investigation
WisDOT Project ID #1580-31-00

SITE INFORMATION											
WisDOT SITE #	SITE ADDRESS	SITE NAME	BRRTS No.	REASON	COCs IDENTIFIED IN HAZMAT FACTOR SHEET	ACQUISITION	PLANNED CONSTRUCTION IN VICINITY OF SITE	DEPTH OF PLANNED CONSTRUCTION	SOIL BORINGS COMPLETED	LAB ANALYSIS	SOIL RESULTS ABOVE GROUNDWATER PATHWAY RCLs
2	605 Lake Avenue West, Ladysmith, WI	Holiday Station Store	03-55-000446 (closed LUST)	This site is the location of a former gas station. It is currently used as a Holiday gas station. It is a closed LUST site. Potential contamination sources of petroleum.	Petroleum	Fee, PLE	Curb ramps	-	1 boring to 5 ft bgs (GP-01)	PVOCs/naphthalene, lead, DRO, GRO	NA
3	518 Lake Avenue West, Ladysmith, WI	EZ stop	03-55-202055 (closed LUST)	This site is the location of a former fuel station. It is a closed LUST site with soil and groundwater contamination present within USH 8 right-of-way. The site currently has an adult services building and a parking lot. Potential contamination source of petroleum.	Petroleum	Fee, PLE	Curb ramps	-	1 boring to 5 ft bgs (GP-02)	PVOCs/naphthalene, lead, DRO, GRO	NA
4	West 5th Street North crossing at Lake Avenue West	Current Railroad, Former fuel station	02-55-282571 (open site)	This site is the location of a current rail road crossing and former fuel station. Two monitoring wells exist within USH 8 right-of-way. Potential contamination source of petroleum and TCE.	Petroleum and TCE	Fee, PLE, HE	Curb ramps, Storm Sewer inlet and piping relocation	4 feet for storm sewer inlet and piping	2 borings to 5 ft bgs (GP-03,GP-04)	VOCs, lead, DRO, GRO	NA
6	300 Lake Avenue West, Ladysmith, WI	Former fuel station	03-55-000190 (closed LUST)	This site is a closed LUST site with soil and groundwater contamination present within USH 8 right-of-way. The site is currently an automotive sales and services building. Potential contamination source of petroleum.	Petroleum	Fee	Curb ramps	-	1 boring to 5 ft bgs (GP-05)	PVOCs/naphthalene, lead, DRO, GRO	NA

Created by: L. Hoerning, 6/30/2020
Checked by: L. Auner, 7/17/2020

Table 2: Soil Sampling Results Summary
USH 8 Ladysmith - Phase 2/2.5 Investigation
WisDOT Project ID #1580-31-00

ANALYTES	NR 720 SOIL RCLs[3]				SOIL BORING ID, SAMPLE DEPTH (feet bgs), DATE				
	SOIL TO GROUNDWATER PATHWAY[1]	DIRECT CONTACT PATHWAY		BACKGROUND	GP-01	GP-02	GP-03	GP-04	GP-05
		NON-INDUSTRIAL[2]	INDUSTRIAL[2]	SURFICIAL BTV[4]	2.5-5	2.5-5	0-2.5	2.5-5	0-2.5
					6/18/20				
PID (ppm)	-	-	-	-	<1	<1	<1	1.3	<1
DRO (mg/kg)	-	-	-	-	<1.5	<1.5	--	12.6	1310 DC
GRO (mg/kg)	-	-	-	-	<2.9	<2.8	--	<3.0	<2.7
VOCs (ug/kg)									
Benzene	5.12	1,600	7,070	-	<25	<25	<25	<25	<25
Ethylbenzene	1,570	8,020	35,400	-	<25	<25	<25	<25	<25
Methyl-tert-butyl-ether	27.021	63,800	282,000	-	<25	<25	<25	<25	<25
Napthalene	658.182	5,520	24,100	-	<25	<25	<27.3	<27.3	<25
Toluene	1,107	818,000	818,000	-	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	1378.7 [5]	219,000	219,000	-	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene		182,000	182,000	-	<25	<25	<25	<25	<25
m&p-Xylene	3960 [6]	778000 [7]	778000 [7]	-	<50	<50	<50	<50	<50
o-Xylene		434,000	434,000	-	<25	<25	<25	<25	<25
Xylene (Total)		260,000	260,000	-	<75	<75	<75	<75	<75
Metals (mg/kg)									
Lead	27	400	800	52	2.7	4.2	--	7.9	19.9

Notes:

Prepared by: L. Hoerning, 7/5/2020

Checked by: L. Auner, 7/7/2020

1. Samples were analyzed for PVOCs, naphthalene, VOCs, lead, DRO, and/or GRO.
2. Samples were collected by TRC and analyzed by Pace Analytical (WDNR Cert. #405132750)
3. PID = photoionization detector
4. DRO = diesel range organics
5. VOCs = volatile organic compounds analyzed using EPA Method 8260B
6. mg/kg = milligrams per kilogram (ppm)
7. - = Standard not established
8. -- = Not analyzed
9. RCLs = Residual Contaminant Levels.
10. DC = chromatographic pattern inconsistent with typical Diesel Fuel

Footnotes:

(1) Value is the generic RCL for the groundwater pathway.

(2) Value is the generic RCL for exposure by direct contact.

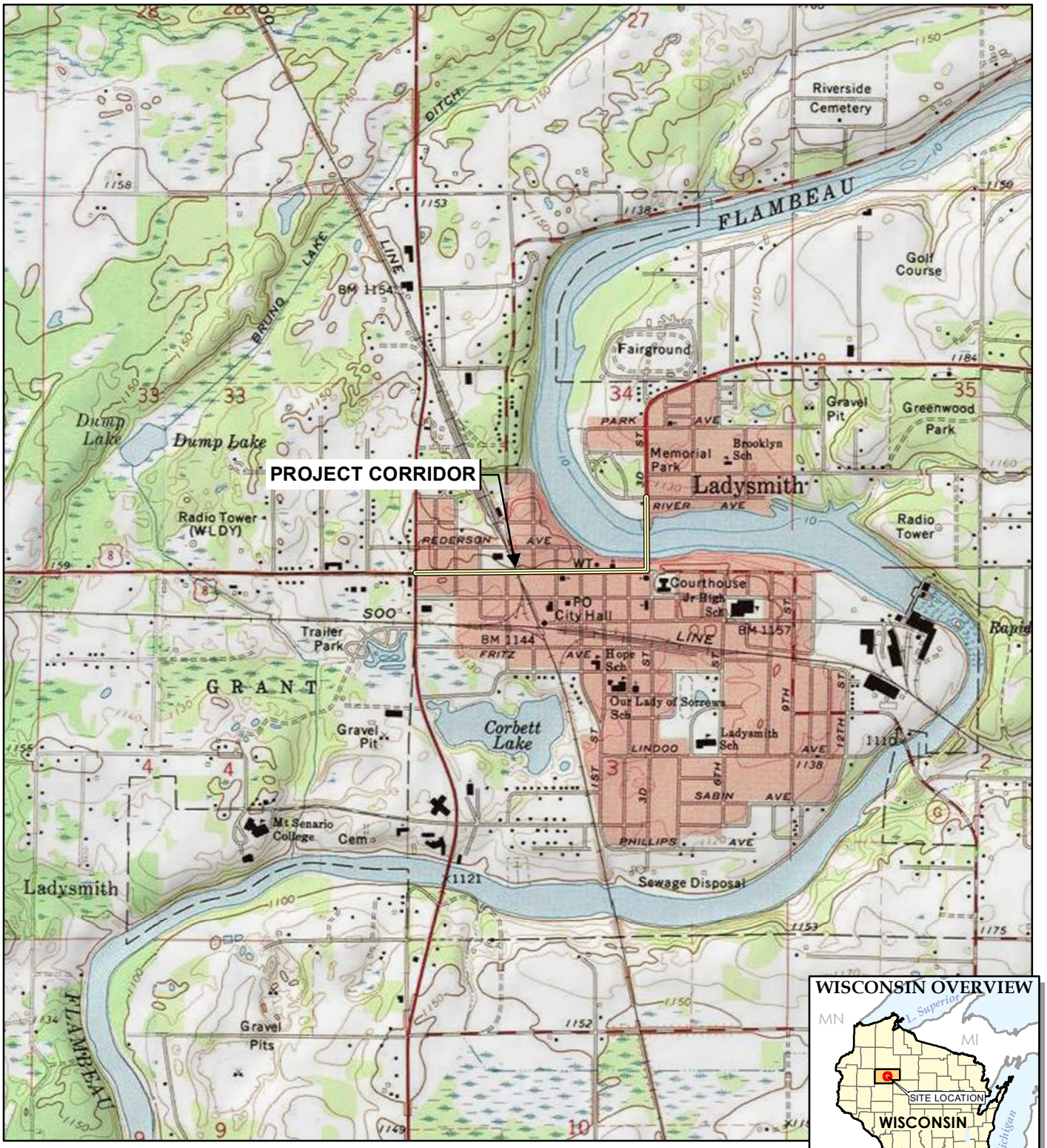
(3) RCLs from the Wisconsin DNR's NR 720 RCL Spreadsheet (December 2018 update) found here: https://dnr.wi.gov/topic/Brownfields/soil.html.

(4) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.

(5) Value is the standard for 1,2,4- and 1,3,5-trimethylbenzene combined.

(6) Value is the standard for total xylenes.

(7) Value is the sum of standards for m- and p-xylene.



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000
FEET

TRC

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

TRC - GIS

PROJECT:

WISDOT ID# 1580-31-00
USH 8
LADYSMITH, RUSK COUNTY, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	R. SUEMNICHT
CHECKED BY:	D. HAAK
APPROVED BY:	T. O'CONNELL
DATE:	SEPTEMBER 2020
PROJ. NO.:	397009
FILE:	397009-001slm.mxd

FIGURE 1

S:\1-PROJECTS\WI_DOT\2020_397009_USH8\397009-001slm.mxd -- Saved By: RSUEMNICHT on 9/8/2020, 12:12:09 PM

TRC - GIS

Coordinate System: NAD 1983 StatePlane Wisconsin Central FIPS 4802 Feet (Foot US)
Map Rotation: 0

Plot Date: 9/8/2020, 12:11:04 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\WI_DOT\2020_397009_USH8\397009-002.mxd

1,684,250 1,684,500 1,684,750 1,685,000 1,685,250 1,685,500 1,685,750

597,250 597,000 596,750 596,500

Pederson Ave W
Lake Ave W
Miner Ave W
W 6th St N
W 5th St N
W 4th St N
W 3rd St N
W 2nd St N
W 5th St S
W 3rd St S
W 2nd St S
8

Holiday Station Store (Site 2)
605 Lake Avenue West
BRRTS #03-55-000446

Goffin Oil (Site 5)
407 Lake Avenue West
BRRTS #03-55-150407

Ladysmith Standard (Site 8)
112 Lake Avenue West
BRRTS #03-55-000232

GP-01
GP-02
GP-03
GP-04
GP-05

SITE 3
SITE 6

LEGEND

- SOIL BORING LOCATION
- POTENTIAL SOIL CONTAMINATION
- CAP EXTENT

NOTES

1. BASE MAP IMAGERY FROM WISCONSIN REGIONAL ORTHOIMAGERY CONSORTIUM (WROC), 2015.
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN CENTRAL (US SURVEY FEET).
3. CONSTRUCTION PLANS PROVIDED BY WisDOT. LOCATIONS ARE APPROXIMATE.

0 120 240 Feet
1 " = 120 '
1:1,440

PROJECT:
WISDOT ID# 1580-31-00
USH 8
LADYSMITH, RUSK COUNTY, WISCONSIN

TITLE:
SOIL BORING LOCATIONS

DRAWN BY:	R. SUEMNICHT	PROJ NO.:	397009
CHECKED BY:	D. HAAK		
APPROVED BY:	T. O'CONNELL		**FIGURE 2**
DATE:	SEPTEMBER 2020		

TRC
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Madison, WI 53717
Phone: 608.826.3600
www.trccompanies.com

FILE NO.: 397009-002.mxd

Appendix A: Construction Plans

PROJECT ID: 1580-31-71
WITH: 1580-31-20

COUNTY: RUSK

ORDER OF SHEETS

TOTAL SHEETS =

N

DESIGN DESIGNATION 1580-31-00

A.A.D.T.	2017	=	10,350
A.A.D.T.	2037	=	12,450
D.H.V.		=	1,457
D.D.		=	59/41
T.		=	18.16%
DESIGN SPEED		=	30 MPH
ESALS		=	4,300,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1580-31-71		
1580-31-20		

C LADYSMITH, LAKE AVENUE & E 3RD ST

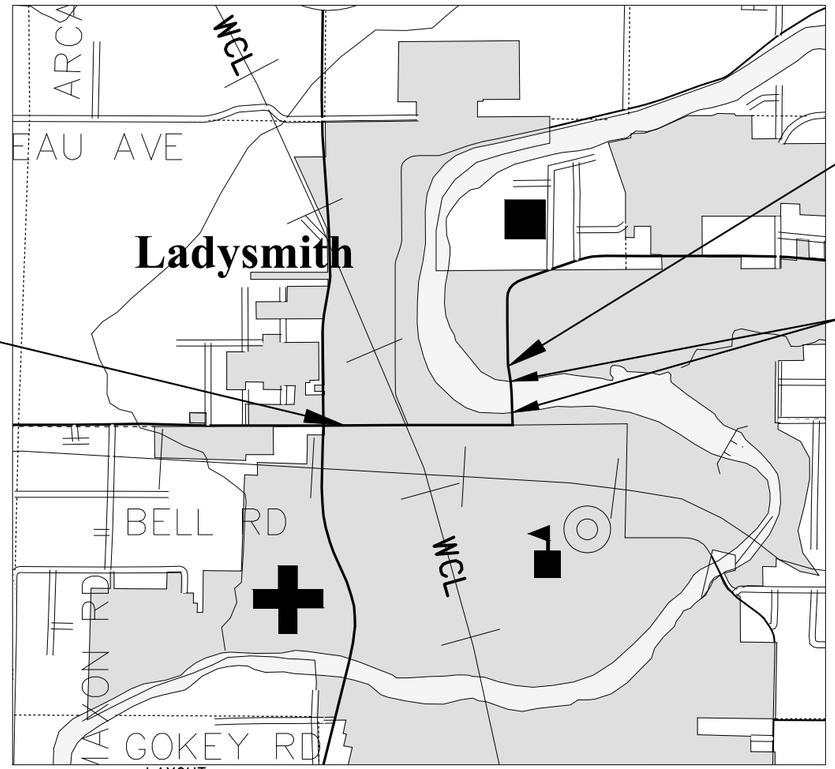
STH 27 TO RIVER AVE

USH 8

RUSK

STATE PROJECT NUMBER
1580-31-71

BEGIN PROJECT 1580-31-71
STA. 326+28



LAYOUT

SCALE 0 1/2 MILE

END PROJECT 1580-31-71
STA. 367+86.50

EXCEPTION TO NET CENTERLINE LENGTH
STA. 357+99.35 - 362+04.96
B 54-65

TOTAL NET LENGTH OF CENTERLINE = 0.68 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RUSK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	TOM ARMSTRONG
Designer	MICHAEL PEARSON
Project Manager	PHILIP KEPPERS
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	DAVID OSTROWSKI

APPROVED FOR THE DEPARTMENT

DATE:_____ _____
(Signature)

E

2

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

SOME UTILITY LOCATIONS HAVE CHANGED. THE CONTRACTOR SHALL LOCATE UTILITIES PRIOR TO ANY EXCAVATION.

WHEN THE QUANTITY OF BASE AGG. DENSE AND ASPHALTIC PAVEMENT ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

SURVEY IS REFRENCED TO THE RUSK COUNTY COORDINATE SYSTEM, WISCONSIN; NAD83 (2011); NAVD88 (GEOID 12A)

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, SHALL BE SEEDED, MULCHED AND STABILIZED WITHIN 7 WORKING DAYS.

CROSS SLOPES AS SHOWN ON THE TYPICAL SECTION WILL VARY AT THE INTERSECTIONS.

NO TREE SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLAN.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

INLET GRATE ELEVATIONS REFERRED TO ON THE PLAN ARE GUTTER FLOW LINE ELEVATIONS. REFER TO CONSTRUCTION DETAILS FOR INSTALLATION.

CROSS SECTION ELEVATIONS ARE BASED ON THE AVAILABLE T.I.N. MODEL AND MAY NEED VERIFICATION IN THE FIELD. INLET AND INVERT ELEVATIONS ARE BASED ON FIELD SURVEY DATA.

FIELD VERIFY ALL RAMP SLOPES AND GRADES PRIOR TO CONSTRUCTION

UTILITIES

RAILROAD
WISCONSIN CENTRAL LTD
1625 DEPOT ST.
STEVENS POINT, WI 54481
ATTN: JACKIE MACEWICZ
PHONE: (715) 345-2503
jackie.macewicz@CN.CA

LADYSMITH MUNICIPLE WATER
120 MINER AVE.
P.O. BOX 431
LADYSMITH, WI 54848-0431
ATTN: KURTIS GORSEGNER
PHONE: (715) 532-2603

DESIGN CONTACT
MICHAEL PEARSON
WISDOT NORTHWEST REGION
1701 N. 4TH STREET
SUPERIOR WI, 54880
PHONE: (715) 395-3024

RUSK COUNTY HIGHWAY COMMISSIONER
SCOTT EMCH
N4711 HWY 27
LADYSMITH, WI 54848
PHONE: (715) 532-2633

CITY OF LADYSMITH
120 MINER AVE.
LADYSMITH, WI 54848
PHONE: (715) 532-2600

CENTURYLINK
20 S. WILSON AVE.
RICE LAKE, WI 54868
ATTN: MONTY PARKER
PHONE: (715)234-5528
monty.parker@centurylink.com

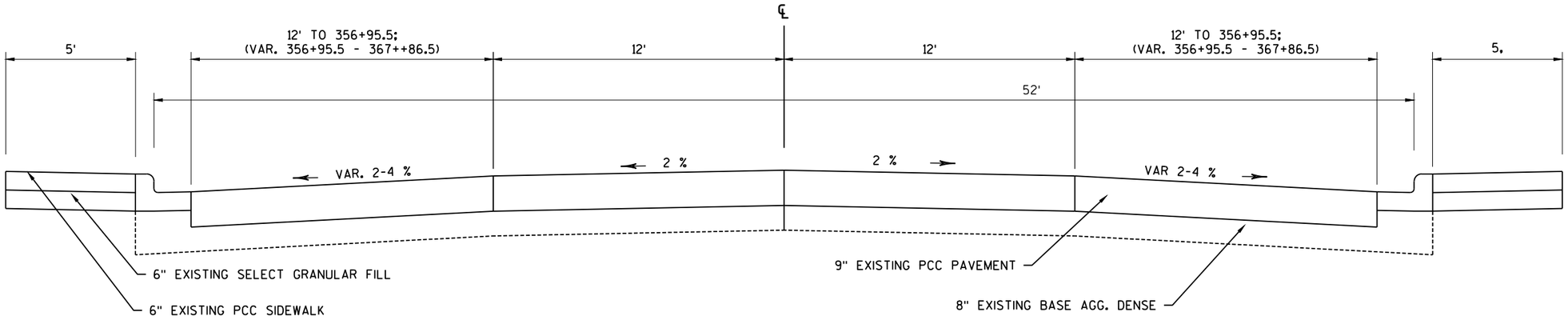
CHARTER COMMUNICATIONS
2304 MAIN ST.
RICE LAKE, WI 54868
ATTN: TOM HAASE
PHONE: (715) 719-0564
tom.haase@charter.com

XCEL ENERGY
1414 W. HAMILTON AVE.
EAU CLAIRE, WI 54702-0008
ATTN: DAWN SCHULTZ
PHONE: (715) 737-2482
dawn.schultz@xcelenergy.com

WE ENERGIES (GAS/PETROLEUM)
333 WEST EVERETT ST., ROOM A299
MILWAUKEE, WI 53203
ATTN: LATROY BRUMFIELD
PHONE: (414) 221-5617
LaTroy.Brumfield@we-energies.com

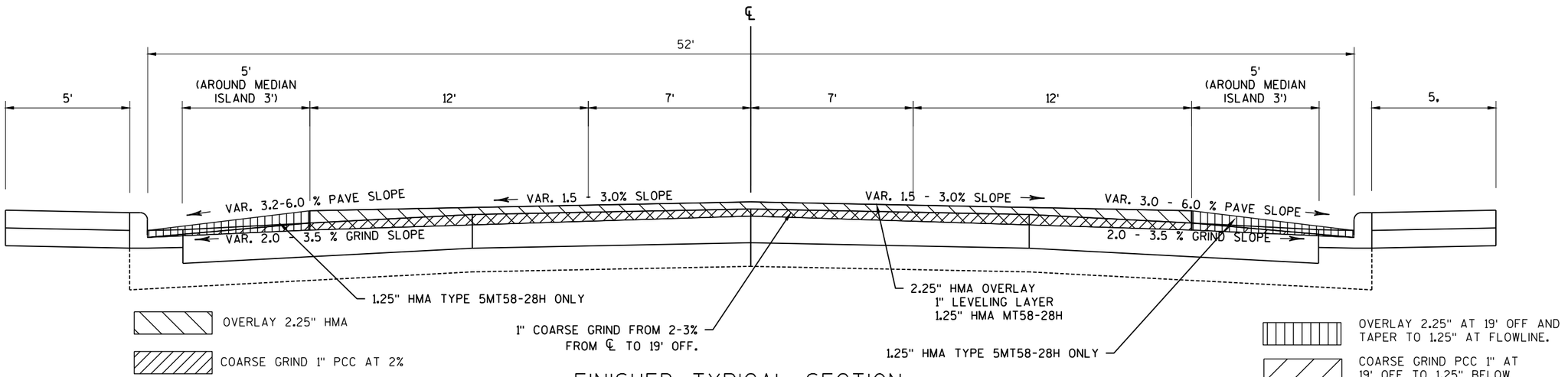
DNR CONTACT
ANDREW BARTA
WDNR - NORTHWEST DISTRICT HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4071

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com



EXISTING TYPICAL SECTION

STA 326+29 - 367+86.5

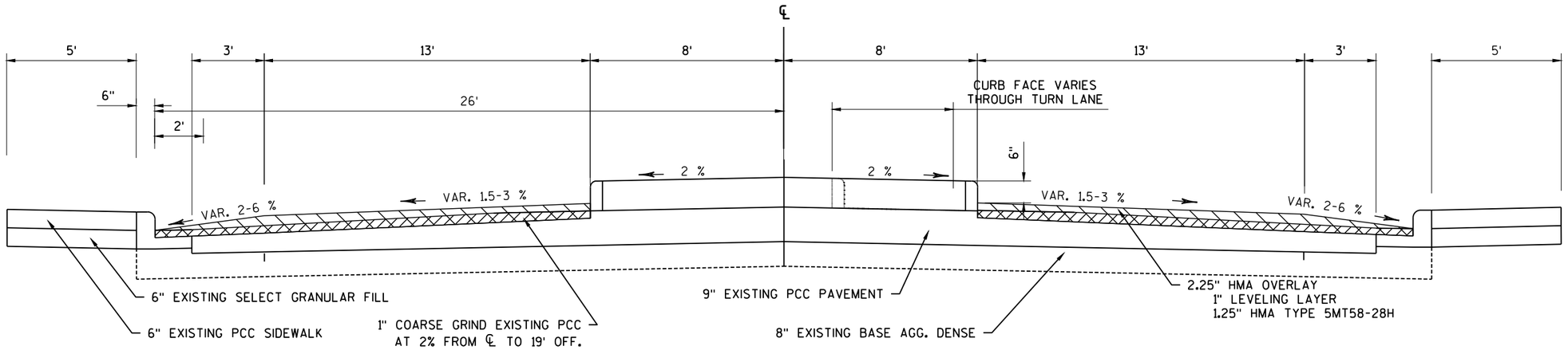


FINISHED TYPICAL SECTION

STA 326+29 - 336+97 STA 339+97 - 356+95.5

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	TYPICAL SECTIONS	SHEET	E

2

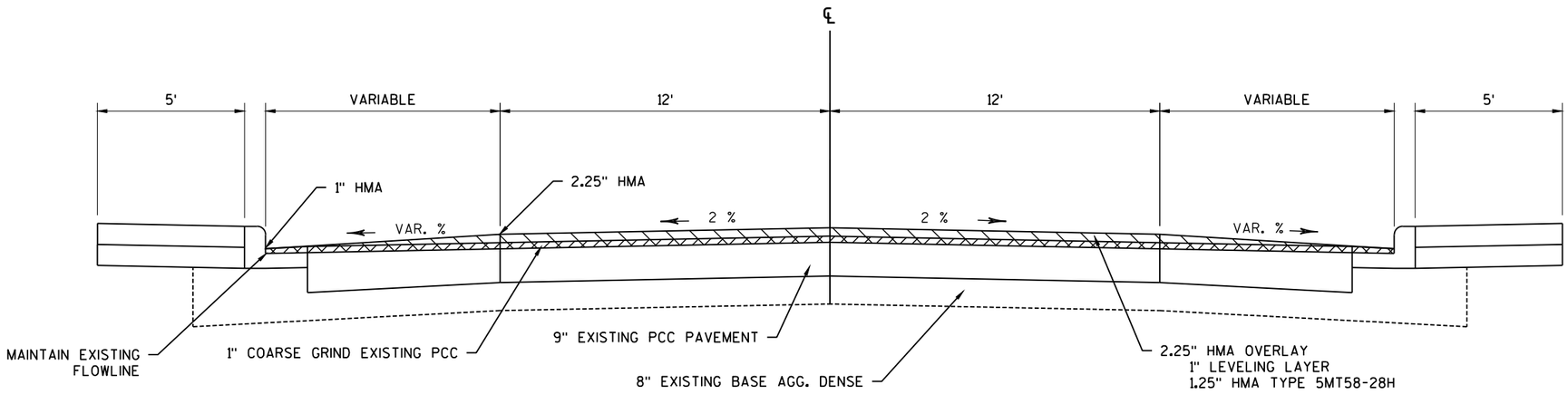


OVERLAY 2.25" HMA

COARSE GRIND 1" PCC AT 2%

FINISHED TYPICAL SECTION

RR STA 336+97 - 339+97

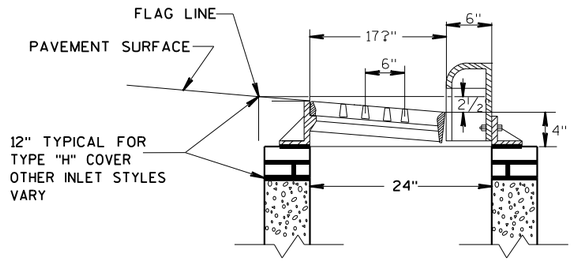


FINISHED TYPICAL SECTION

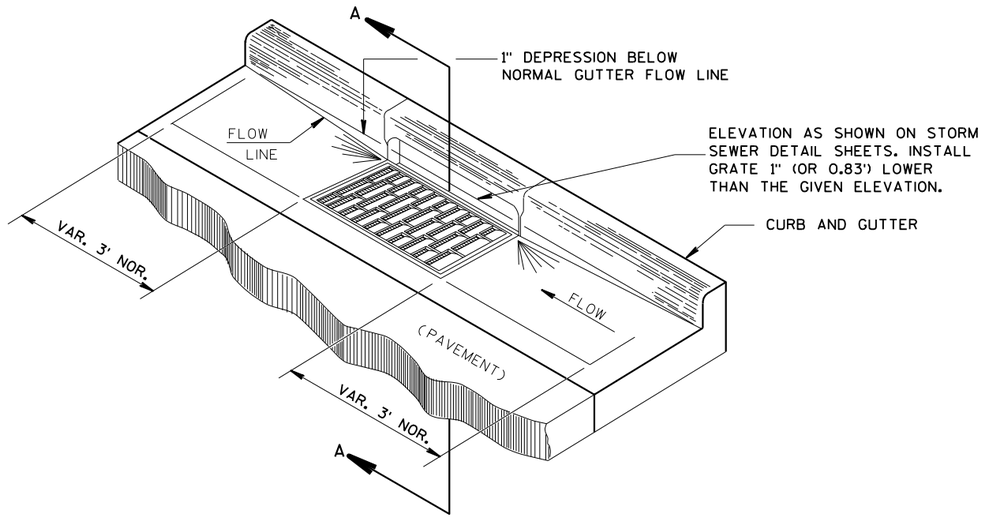
STA 356+95.5 - 367+86.5

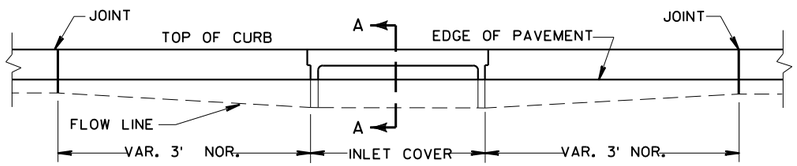
PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	TYPICAL SECTIONS	SHEET	E

2



SECTION A-A

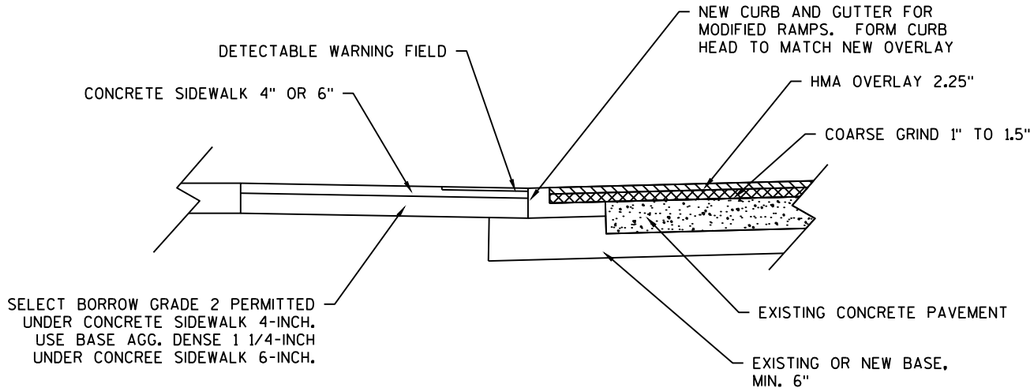




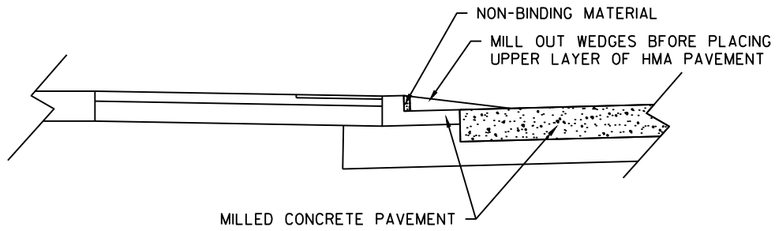
ELEVATION VIEW

DETAIL OF CURB AND GUTTER AT INELETS

(TYPE 3-H INLET SHOWN FOR INFORMATION ONLY)



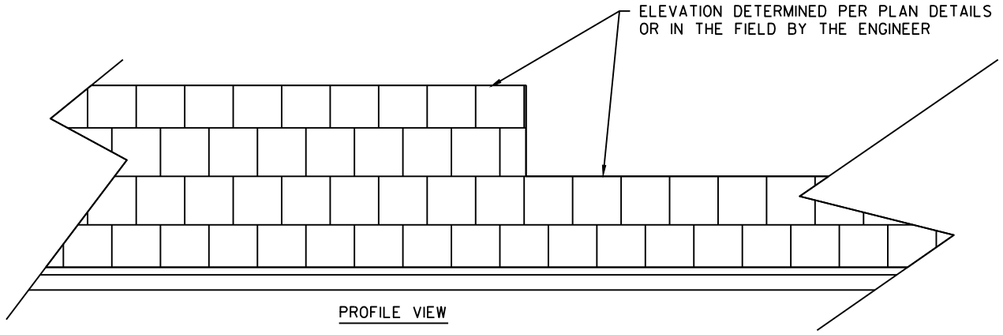
CURB RAMP AND SIDEWALK BLENDING DETAIL

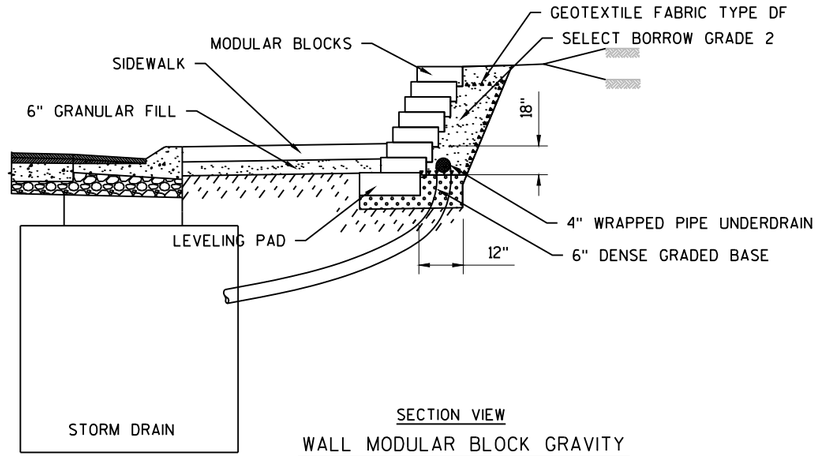


TEMPORARY ASPHALT RAMPS AT CURB RAMPS

NOTE: MOBILE TEMPORARY RAMPS MAY BE USED IN LIEU OF HMA RAMPS.

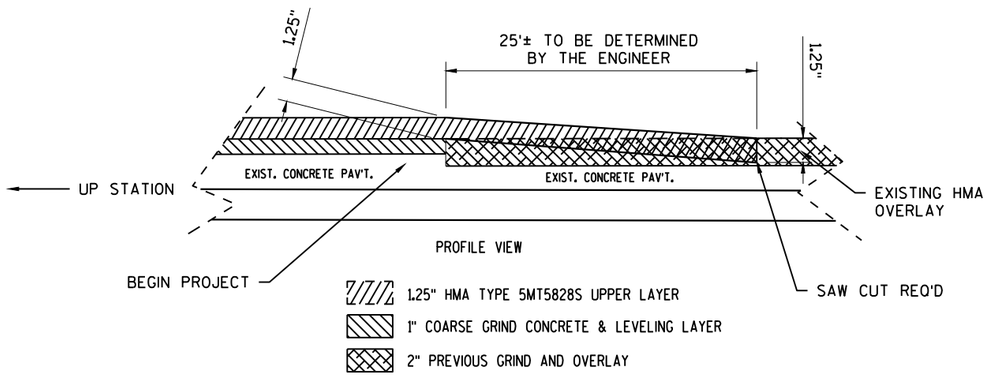
PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	CONSTRUCTION DETAILS	SHEET	E





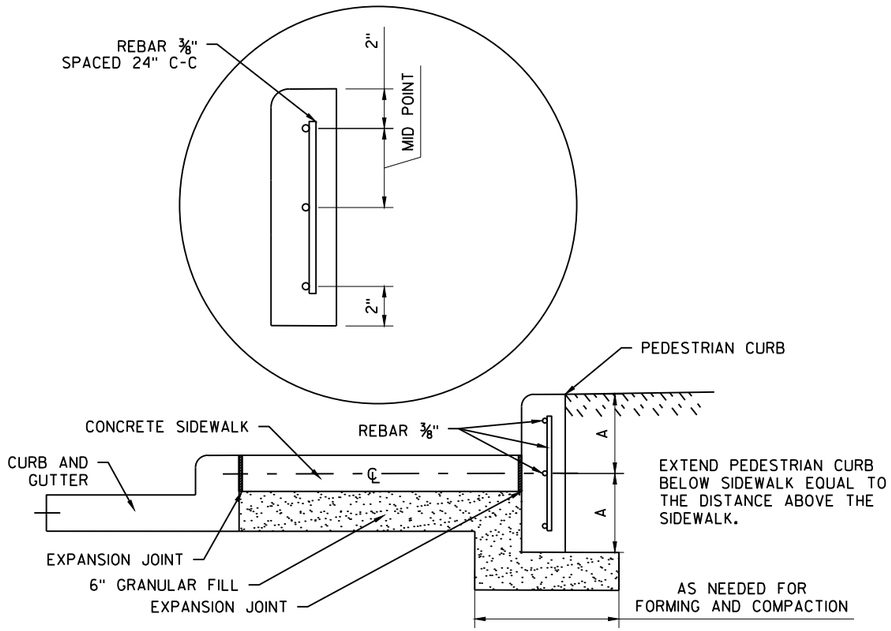
SECTION VIEW

WALL MODULAR BLOCK GRAVITY



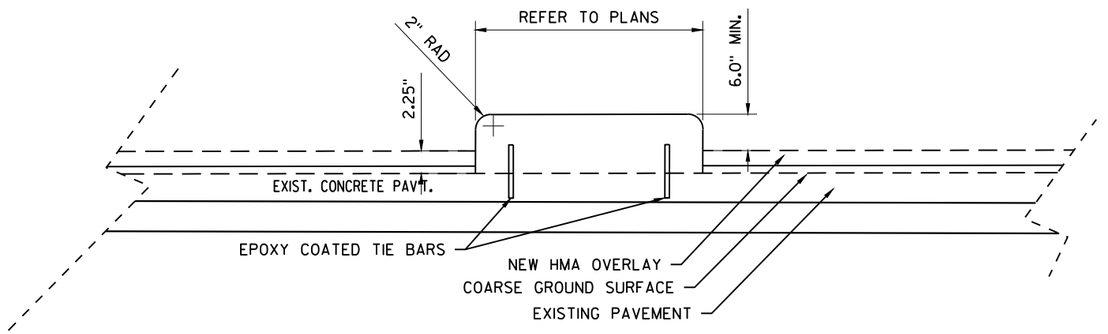
TERMINAL BUTTED JOINT DETAIL

STA. 323+97.70
STA. 367+86.50



PEDESTRIAN CURB CONSTRUCTION DETAIL

W8TH ST. N.E. CORNER
RIVER AVE N.E. CORNER



CONCRETE SAFETY ISLAND DETAIL

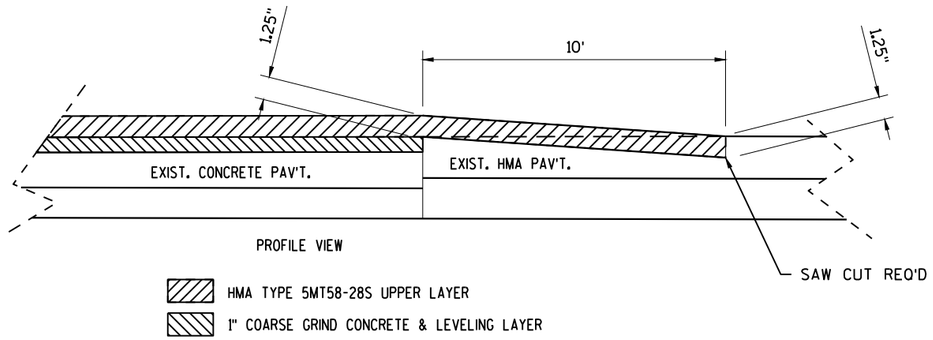
STA. 337+00± TO 340+00±

ISLAND DOWELLED TO EXISTING PAVMENT WITH No. 5 X 12" EPOXY COATED TIE BARS IMBEDDED 6" INTO PAVEMENT 24" C-C. INCIDENTAL TO CONSTRUCTION.

MUST MAINTAIN A 6" MIN. CURB HEAD ABOVE THE NEW PAVEMENT SURFACE.

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	CONSTRUCTION DETAILS	SHEET	E

2



SIDE STREET BUTT JOINT DETAIL

PROJECT NO:1580-31-71	HWY:USH 8	COUNTY:RUSK	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\CD\CONST DETAILS.DWG
LAYOUT NAME - ****
PLOT DATE : 5/11/2020 1:02 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

5TH ST N

EXISTING R/W

NEW SIDEWALK

PROPOSED R/W

NEW SIDEWALK

STOP LINE

MARKING LINE EPOXY
4-INCH WHITE

CANTALEVER LIGHTS

CROSSING ARM

MARKING ARROW

MARKING LINE EPOXY
8-INCH WHITE

MARKING LINE EPOXY
4-INCH WHITE

337+00

338+00

339+00

340+00

RAISED MEDIAN

RAISED MEDIAN

R=3'

R=3'

15'

15'

73'

25'

STOP LINE

CONCRETE CURB TYPE A

CONCRETE CURB TYPE A

CROSSING ARM

MARKING LINE EPOXY
4-INCH WHITE

CANTALEVER LIGHTS

MARKING LINE EPOXY
8-INCH WHITE

MARKING LINE EPOXY
4-INCH WHITE

EXISTING R/W

PROPOSED TLE

NEW SIDEWALK

PROPOSED R/W

SWITHCH AND HEATER

BUNGALO

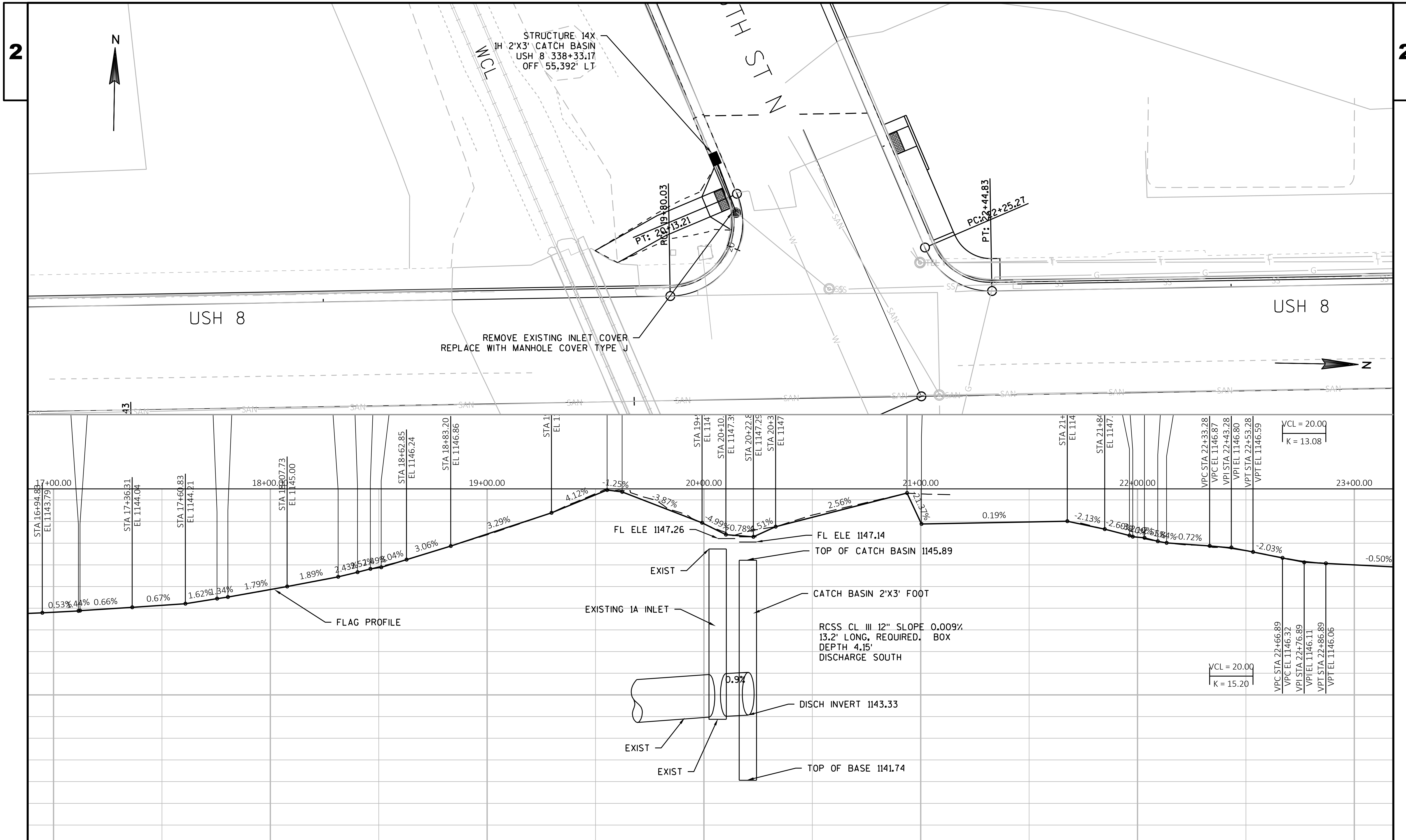
STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1	337+01.26	3.000 RT	563559.93	811898.74
2	337+01.26	9.000 RT	563553.93	811898.84
3	337+23.87	3.000 RT	563560.22	811915.65
4	337+92.08	-9.000 LT	563573.46	811989.34
5	337+99.51	9.000 RT	563555.59	811997.08
6	338+34.95	9.000 RT	563556.19	812032.51
7	338+27.51	-9.000 LT	563574.06	812024.77
8	339+04.10	-3.000 LT	563569.44	812106.16
9	339+93.70	-9.000 LT	563576.87	812190.93
10	339+93.70	-3.000 LT	563570.87	812191.04
11	338+36.85	9.000 RT	563556.22	812034.42
12	337+90.17	-9.000 LT	563573.43	811987.44

PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	RR MEDIAN DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\CONST. DETAILS\RR MEDIAN.DWG
LAYOUT NAME - RR MEDIAN DETAIL

PLOT DATE : 12/16/2019 1:31 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42



PROJECT NO:1580-31-71	HWY:USH 8	COUNTY:RUSK	STORM SEWER	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\SS\SS DETAIL.DWG
LAYOUT NAME - ****
PLOT DATE : 5/22/2020 7:25 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

N

W 6TH ST N

MARKING CROSSWALK EPOXY
LADDER PATTERN 24-INCHL
2' PAINT, 2' GAP, 6' WIDE

MARKING LINE EPOXY
4-INCH YELLOW

MARKING ARROW
EPOXY WHITE

331 332 333 334 335 336

PI: 20+00.00

EP: 25+00.00

4'

MARKING LINE EPOXY
4-INCH YELLOW DASHED

MARKING LINE
EPOXY 4-INCH WHITE

MARKING STOP LINE
EPOXY 18-INCH

MARKING CROSSWALK EPOXY
TRASVERSE LINE 6-INCH WHITE

PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	PAVEMENT MARKING	SHEET	E

2

2

N

EP: 32+00.00

W 5TH ST N

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH

MARKING STOP LINE
EPOXY 18-INCH

W 4TH ST N

MARKING STOP LINE
EPOXY 24-INCH

MARKING LINE EPOXY
4-INCH YELLOW

4'

MARKING STOP LINE
EPOXY 24-INCH

MARKING EPOXY RAILROAD
SEE SDD

MARKING LINE EPOXY
4-INCH YELLOW

337 338 339 340 341 342

PI: 35+00.00

BP: 30+00.00

MARKING LINE EPOXY
4-INCH YELLOW

MARKING LINE EPOXY 8-INCH WHITE
STA 339+05 - 339+95

MARKING ARROW EPOXY
WHITE

MARKING LINE EPOXY
4-INCH YELLOW DASHED
12.5' PAINT, 27.5' GAP

MARKING STOP LINE
EPOXY 18-INCH

MARKING CROSSWALK EPOXY
LADDER PATTERN 24-INCH WHITE
2' PAINT, 2' GAP, 6' WIDE

R/W

W 5TH ST N

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH

MARKING LINE EPOXY 8-INCH WHITE
STA 337+00 - 337+15

MARKING LINE EPOXY 4-INCH WHITE

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PAVEMENT MARKING	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

N

W. 5TH ST.

334+00 335+00 336+00 337+00 338+00 339+00

EP: 25+00.00

DETAILS ON PREVIOUS PAGE

W. 5TH ST.

WORK ZONE

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE TYPE III BARRICADE

NO SIDEWALK

SIDEWALK

2

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE I	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\TC\RAMP TC-1.DWG
LAYOUT NAME - SHEET - (2)

PLOT DATE : 5/21/2020 12:38 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

2

N

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

M. 5TH ST.

W. 4TH ST.

SIDEWALK

PI: 339+96.00

338+00 339+00 340+00 341+00 342+00 343+00

PI: 35+00.00

PI: 40+00

WORK ZONE

R9-9
24"X12"
SIDEWALK CLOSED

TYPE III BARRICADE TYPE III BARRICADE

SIDEWALK

NO SIDEWALK

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF MINER AVE PER SDD 15D30

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\TC\RAMP TC-1.DWG
LAYOUT NAME - SHEET - (3)

PLOT DATE : 5/21/2020 12:38 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

EP: 42+00.00

EP: 47+00.00

N

SIDEWALK

W. 3RD ST.

341+00

342+00

343+00

PI: 40+00.00

344+00

345+00

346+00

WORK ZONE

R9-9
24"X12"
SIDEWALK CLOSED

TYPE III BARRICADE

TYPE III BARRICADE

SIDEWALK

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF MINER AVE PER SDD 15D30

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 1	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

EP: 47+00.00

SIDEWALK

W. 2ND ST.

N

2

344+00 345+00 346+00 347+00 348+00 349+00 350+00

EP: 50+00.00

WORK ZONE

DETAILS ON NEXT PAGE

R9-9
24"X12"
SIDEWALK CLOSED

TYPE III BARRICADE TYPE III BARRICADE

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

SIDEWALK

PLACE SIGN AND BARRICADE AT CORNER OF MINER AVE PER SDD 15D30

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 1	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\TC\RAMP TC-1.DWG
LAYOUT NAME - SHEET - (4)

PLOT DATE : 5/21/2020 12:38 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

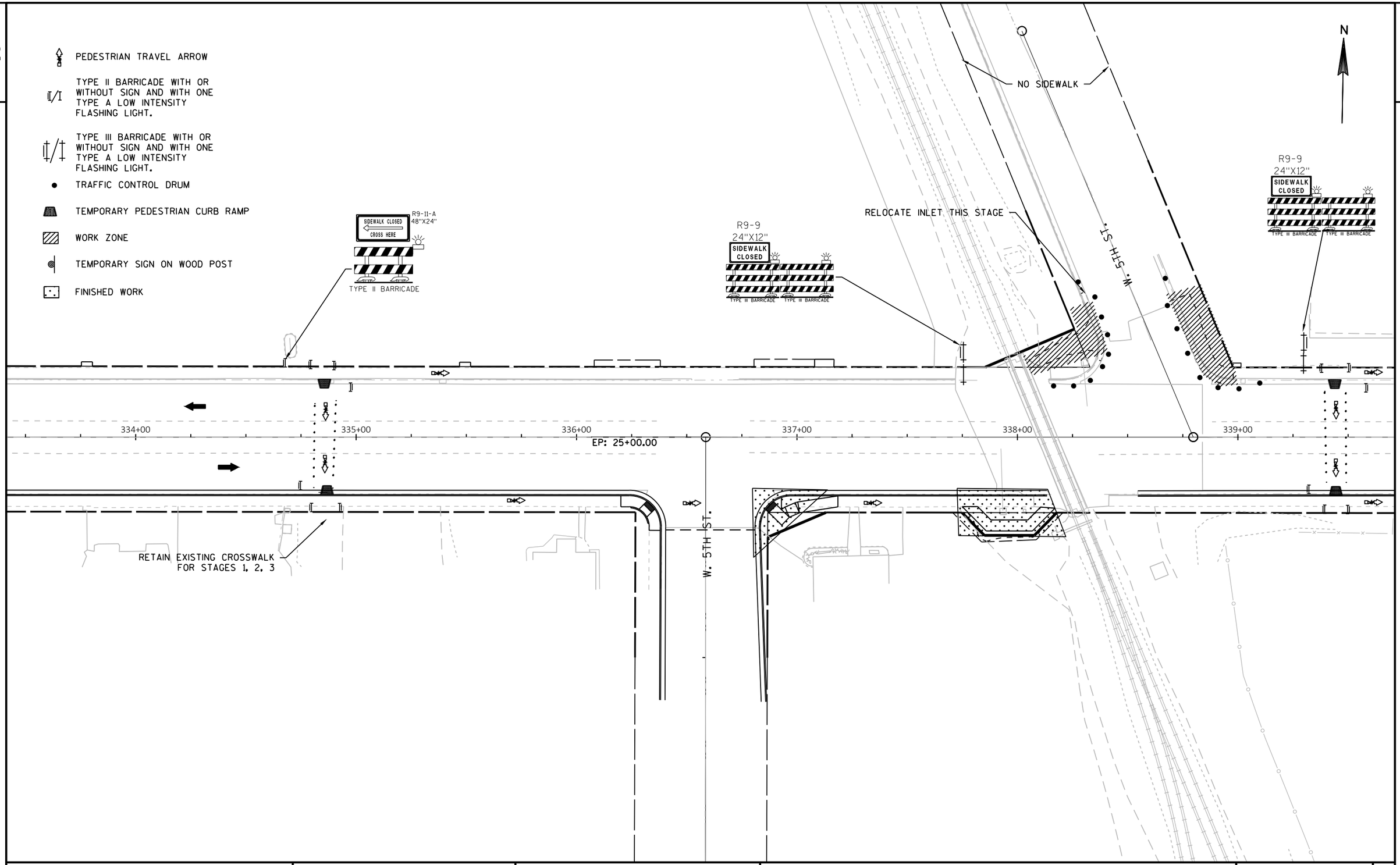
TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK



2

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\TC\RAMP TC-2.DWG
LAYOUT NAME - SHEET - (2)

PLOT DATE : 5/21/2020 12:38 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

2

N

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

SIDEWALK

PEDESTRIAN CROSSWALK
R9-8
36" X 18"
TYPE II BARRICADE

M. 5TH ST.

ADD CROSSWALK STAGE 2, RETAIN FOR STAGE 3

W. 4TH ST.

PI: 339+96.00

338+00 339+00 340+00 341+00 342+00 343+00

PI: 35+00.00

PI: 40+00

WORK ZONE

W011-2
30"X30"

W16-7L
24"X12"
TYPE II BARRICADE

R9-8
36" X 18"
PEDESTRIAN CROSSWALK
TYPE II BARRICADE

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE
TYPE III BARRICADE

NO SIDEWALK

SIDEWALK

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 2	SHEET	E

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

EP: 42+00.00

EP: 47+00.00

N

SIDEWALK

W. 3RD ST.

341+00

342+00

343+00

PI: 40+00.00

344+00

345+00

346+00

WORK ZONE

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"
TYPE II BARRICADE

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE
TYPE III BARRICADE

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"
TYPE II BARRICADE

SIDEWALK

PLACE SIGN AND BARRICADE AT CORNER OF MINER AVE PER SDD 15D30

PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 2	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

EP: 47+00.00

SIDEWALK

W. 2ND ST.

N

2

344+00 345+00 346+00 347+00 348+00 349+00 350+00

EP: 50+00.00

WORK ZONE

SIDEWALK CLOSED

24"X24"

TYPE III BARRICADE TYPE III BARRICADE

SIDEWALK

R9-11
48"X24"

SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF MINER AVE PER SDD 15D30

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : C:\CIVIL 3D PROJECTS\15803100\SHEETSPLAN\TC\RAMP TC-2.DWG
LAYOUT NAME - SHEET - (4)

PLOT DATE : 5/21/2020 12:39 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

N

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

R9-11 48"X24" SIDEWALK CLOSED AHEAD CROSS HERE
TYPE II BARRICADE

SIDEWALK

R9-9 24"X12" SIDEWALK CLOSED
TYPE III BARRICADE TYPE III BARRICADE

W. 5TH ST.

W. 4TH ST.

FINAL CROSSWALKS MAY NOT BE IN PLACE. IMAGE TO SHOW EXPECTED PEDESTRIAN BEHAVIOR

R9-11 48"X24" SIDEWALK CLOSED AHEAD CROSS HERE
TYPE II BARRICADE

PLACE BARRICADE AND SIGN AT THE CORNER OF W. 6TH ST. PER SDD 15D30

STA 339+96.00

WORK ZONE

336+00 337+00 338+00 339+00 340+00 341+00 342+00

EP: 25+00.00

PI: 35+00.00

W. 5TH ST.

RETAIN CROSSWALK STAGE 3

R9-9 24"X12" SIDEWALK CLOSED
TYPE III BARRICADE TYPE III BARRICADE

R9-11 48"X24" SIDEWALK CLOSED AHEAD CROSS HERE
TYPE II BARRICADE

PLACE BARRICADE AND SIGN AT THE CORNER OF MINER AVE. PER SDD 15D30

PROJECT NO:1580-31-71	HWY:USH 8	COUNTY:RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 3	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

EP: 42+00.00

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

SIDEWALK

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE TYPE III BARRICADE

W. 3RD ST.

WORK ZONE

N

EP: 47+00.00

2

341+00 342+00 343+00 344+00 345+00 346+00

PI: 40+00.00

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF W. 4TH ST. PER SDD 15D30

FINAL CROSSWALKS MAY NOT BE IN PLACE. IMAGE TO SHOW EXPECTED PEDESTRIAN BEHAVIOR

SIDEWALK

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY:RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 3	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

EP: 47+00.00

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

SIDEWALK

N

2

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE

TYPE II BARRICADE

SIDEWALK CLOSED

TYPE III BARRICADE

TYPE III BARRICADE

W. 2ND ST.
W. 2ND ST.

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

WORK ZONE

344+00 345+00 346+00 347+00 348+00 349+00 350+00

EP: 50+00.00

FINAL CROSSWALKS MAY NOT BE IN PLACE. IMAGE TO SHOW EXPECTED PEDESTRIAN BEHAVIOR

SIDEWALK

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 3	SHEET	E

2

2

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

SIDEWALK

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE
TYPE III BARRICADE

M. 5TH ST.

W. 4TH ST.

PI: 39+96.00

WORK ZONE

338+00 339+00 340+00 341+00 342+00 343+00

PI: 35+80.00

PI: 40+00

FINAL CROSSWALKS MAY NOT BE IN PLACE. IMAGE TO SHOW EXPECTED PEDESTRIAN BEHAVIOR

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

PLACE BARRICADE AND SIGN AT THE CORNER OF W. 3RD ST. PER SDD 15D30

N

PEDESTRIAN TRAVEL ARROW

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 4	SHEET	E

2

PEDESTRIAN TRAVEL ARROW

TEMPORARY PEDESTRIAN RAILING

TYPE II BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TYPE III BARRICADE WITH OR WITHOUT SIGN AND WITH ONE TYPE A LOW INTENSITY FLASHING LIGHT.

TRAFFIC CONTROL DRUM

TEMPORARY PEDESTRIAN CURB RAMP

WORK ZONE

TEMPORARY SIGN ON WOOD POST

FINISHED WORK

EP: 42+00.00

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF PETERSON AVE PER SDD 15D30

EP: 47+00.00

N

SIDEWALK

R9-9
24"X12"
SIDEWALK CLOSED
TYPE III BARRICADE
TYPE III BARRICADE

W. 3RD ST.

WORK ZONE

341+00 342+00 343+00 344+00 345+00 346+00

PI: 40+00.00

FINAL CROSSWALKS MAY NOT BE IN PLACE. IMAGE TO SHOW EXPECTED PEDESTRIAN BEHAVIOR

R9-11
48"X24"
SIDEWALK CLOSED AHEAD
CROSS HERE
TYPE II BARRICADE

PLACE SIGN AND BARRICADE AT CORNER OF W. 2ND ST. AVE PER SDD 15D30

SIDEWALK

2

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PEDESTRIAN TRAFFIC CONTROL - STAGE 4	SHEET	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓑ TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- GRINDING ACTIVITIES
- PAVING ACTIVITIES
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

EXISTING ADVANCED WARNING SIGNS TO REMAIN
REMOVE BARRICADES AND SIGNS ASSOCIATED WTIH CURB RAMP DETOURS
MILLING AND PAVING TO BE CONDUCTED USING FLAGGERS TO PROJECT LIMITS.
SIDE STREET WARNING SIGNS PER SDD 15C05-05
FINAL PAVING NEAR RR XING AFTER COMPLETION OF THE RAISED CONCRETE MEDIANS.

N

2

W. 5TH ST.

W. 4TH ST.

ROAD WORK AHEAD W20-1-A

200'

PI: 339+96.00

334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00

USH 8

USH 8

21703
1145.587
CTWR

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	TRAFFIC CONTROL - STAGE 5	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\TC\RAMP TC-5.DWG
LAYOUT NAME - SHEET - (7)
PLOT DATE : 12/13/2019 8:59 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

2

N

W. 5TH ST.

W. 4TH ST.

WCL

USH 8

USH 8

334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00

PC 339+96.00

200'

200'

W01-6 SIZE

TYPE III BARRICADE

ROAD WORK AHEAD W20-1-A

R3-2 24"X24"

W01-6 SIZE

TYPE III BARRICADE

ROAD WORK AHEAD W20-1-A

ROAD WORK AHEAD W20-1-A

ROAD WORK AHEAD W20-1-A

W. 5TH ST

WCL

21703
1145.587
CTWR

MILLING AND PAVING TO BE DONE
UNDER TRAFFIC USING FLAGGERS.
TRAFFIC DELAYS EXPECTED.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- FINAL PAVING ACTIVITIES
- RAISED MEDIAN ACTIVITIES
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	TRAFFIC CONTROL - STAGE 6	SHEET	E

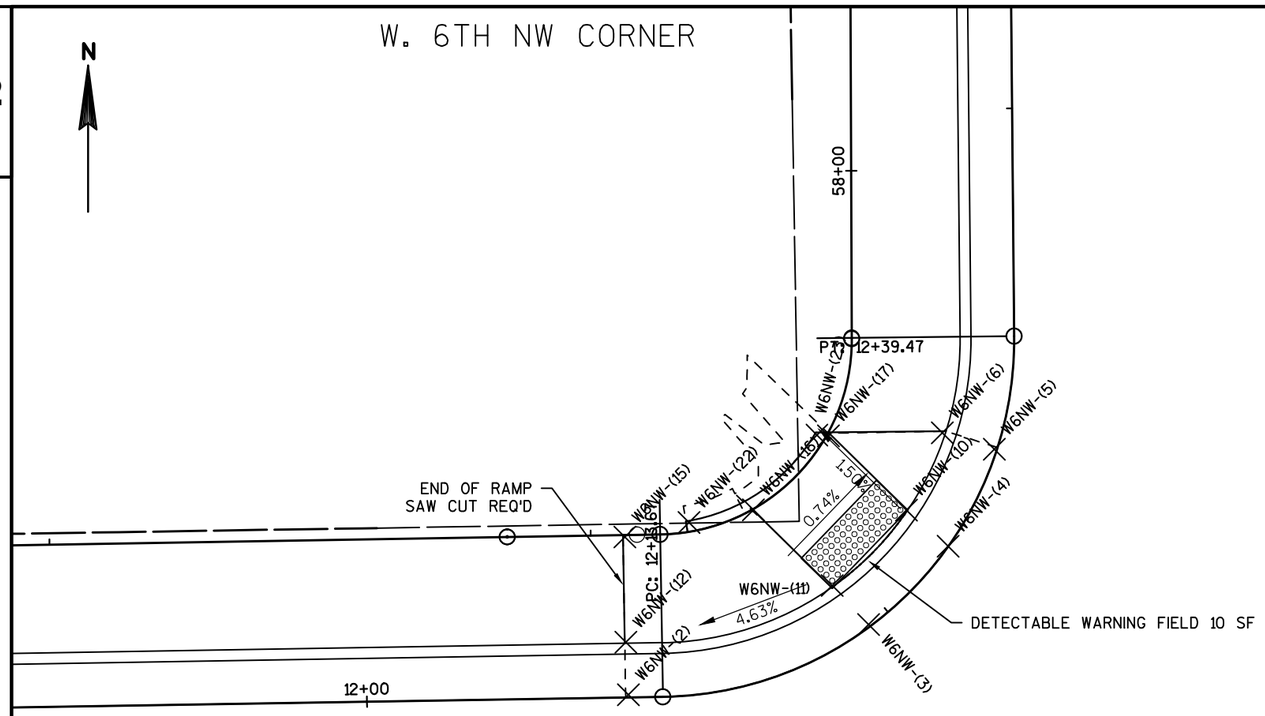
FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\TC\RAMP TC-6.DWG
LAYOUT NAME - SHEET - (7)

PLOT DATE : 12/13/2019 9:14 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

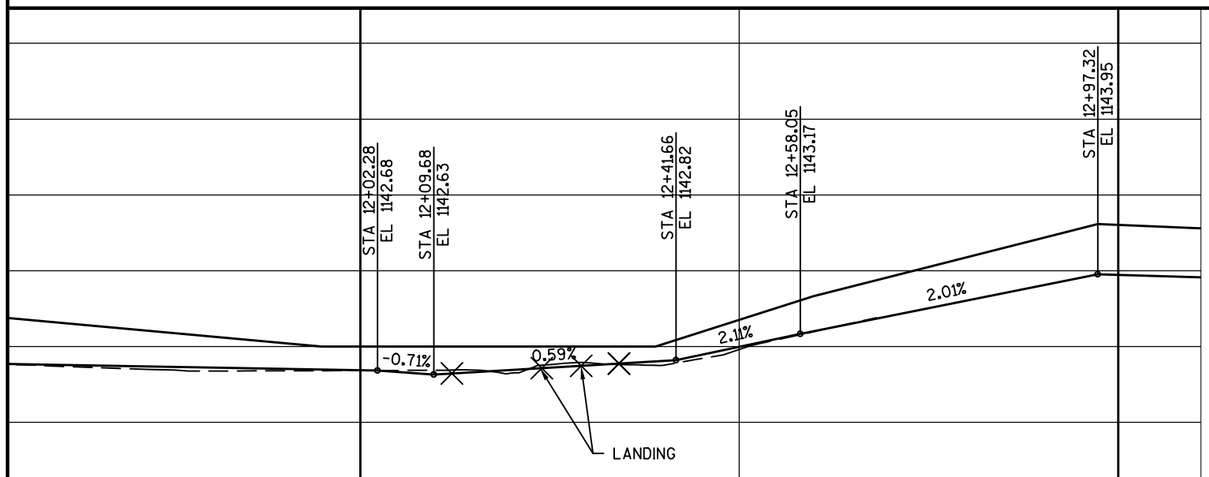
PLOT SCALE : 1 IN:50 FT

2

W. 6TH NW CORNER



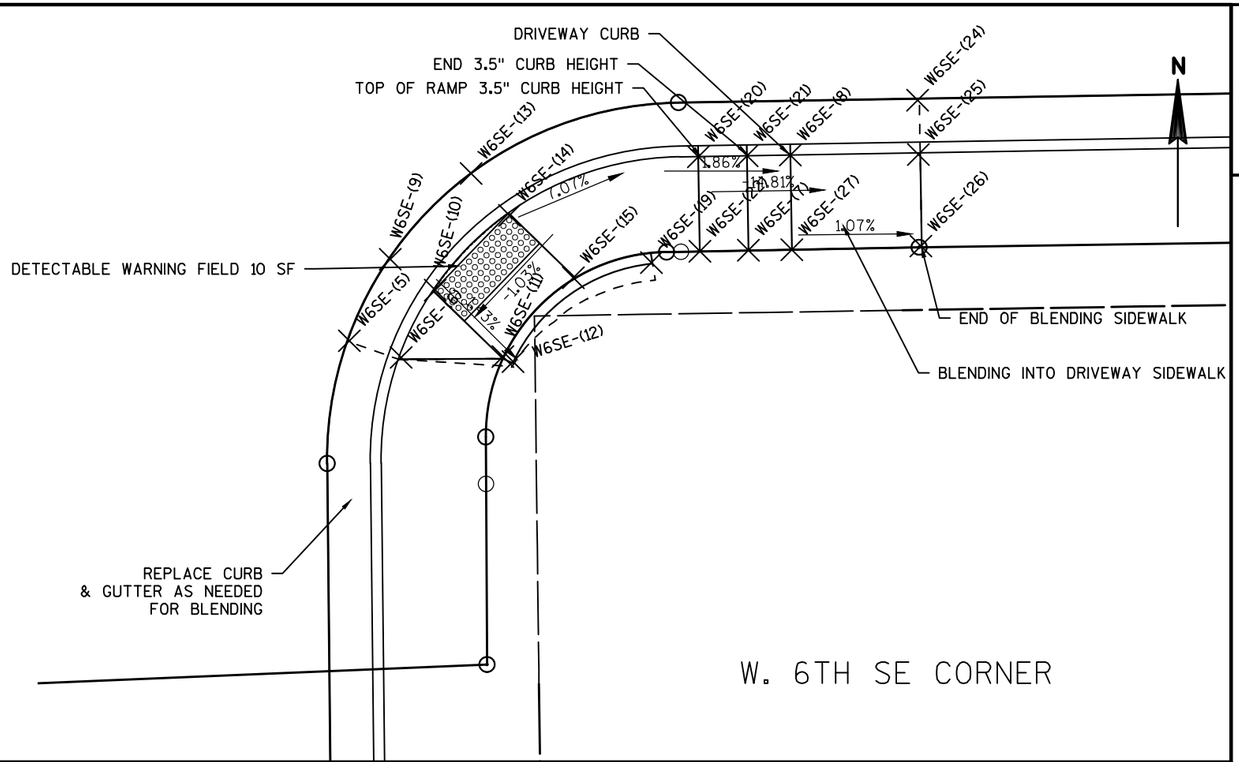
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W6NW-(2)	332+52.82	24.43 LT	563579.79	811449.91	1142.64
W6NW-(3)	332+63.97	27.49 LT	563583.04	811461.01	1142.71
W6NW-(4)	332+67.71	31.04 LT	563586.65	811464.68	1142.75
W6NW-(5)	332+69.92	35.49 LT	563591.13	811466.81	1142.77
W6NW-(6)	332+67.53	36.29 LT	563591.89	811464.41	1143.18
W6NW-(10)	332+65.81	32.74 LT	563588.32	811462.76	1142.67
W6NW-(11)	332+62.32	29.32 LT	563584.84	811459.32	1142.63
W6NW-(12)	332+52.75	26.86 LT	563582.22	811449.79	1143.02
W6NW-(15)	332+52.78	31.72 LT	563587.08	811449.74	1143.16
W6NW-(16)	332+58.74	32.88 LT	563588.33	811455.68	1142.71
W6NW-(17)	332+62.26	36.23 LT	563591.75	811459.14	1142.74
W6NW-(22)	332+55.76	32.34 LT	563587.75	811452.71	1143.01
W6NW-(23)	332+61.73	36.27 LT	563591.78	811458.62	1143.01

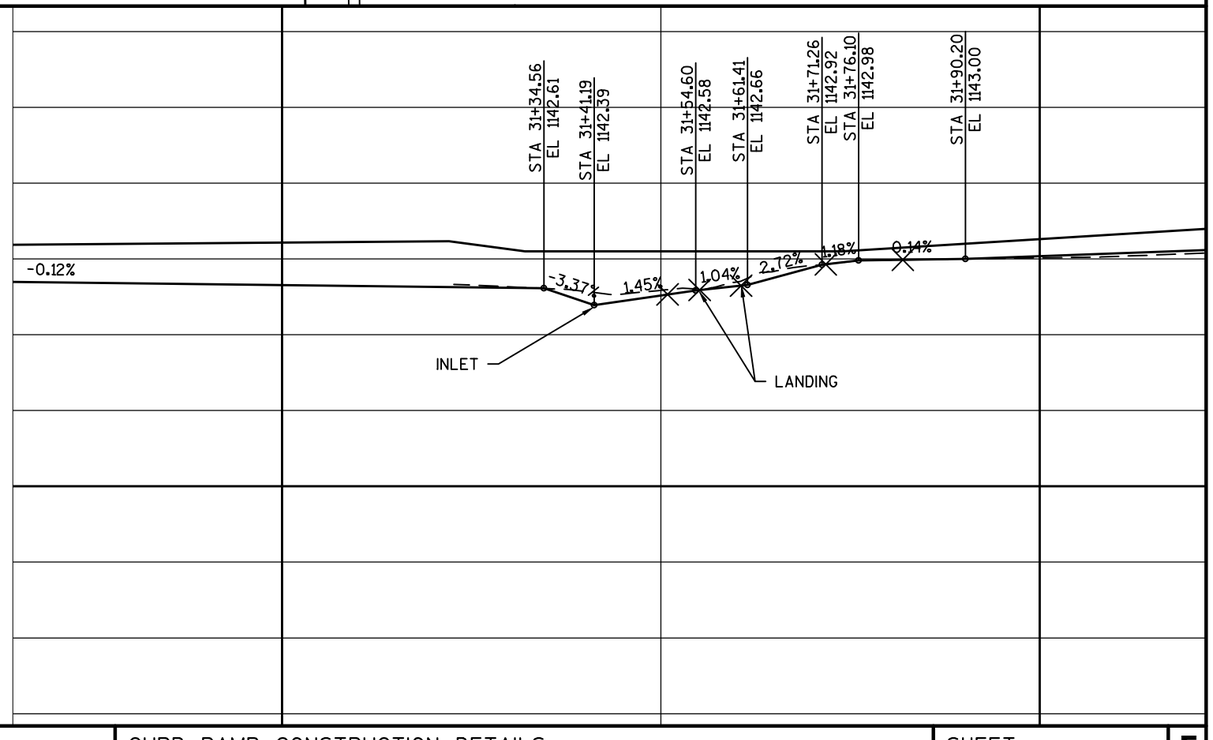


PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 1.DWG
LAYOUT NAME - ****
PLOT DATE : 5/4/2017 10:12 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:7

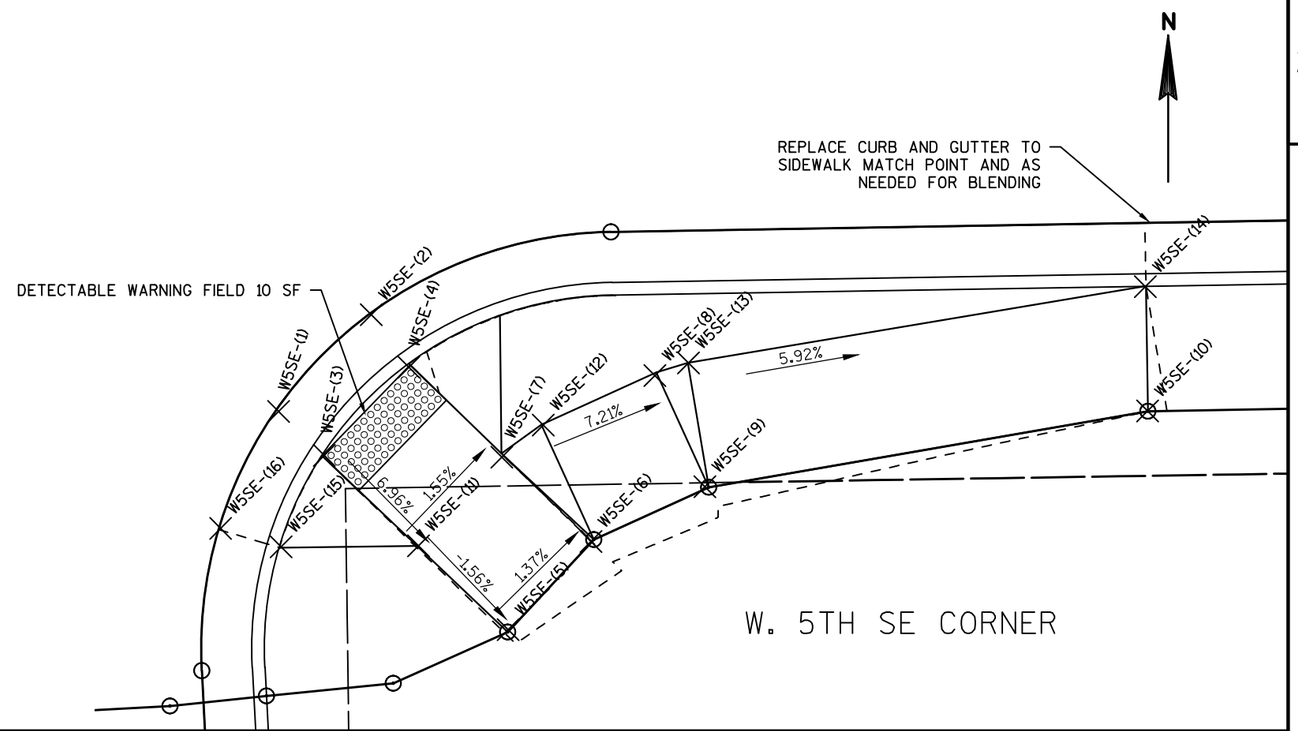
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W6SE-(5)	333+10.58	34.75 RT	563521.59	811508.66	1142.53
W6SE-(6)	333+12.96	35.56 RT	563520.82	811511.05	1142.88
W6SE-(7)	333+29.08	30.88 RT	563525.77	811527.09	1143.24
W6SE-(8)	333+31.09	26.52 RT	563530.17	811529.02	1142.88
W6SE-(9)	333+12.54	31.02 RT	563525.36	811510.55	1142.59
W6SE-(10)	333+14.59	32.48 RT	563523.93	811512.62	1142.46
W6SE-(11)	333+17.66	35.60 RT	563520.87	811515.75	1142.53
W6SE-(12)	333+18.13	35.85 RT	563520.62	811516.22	1143.11
W6SE-(13)	333+16.34	27.12 RT	563529.32	811514.28	1142.65
W6SE-(14)	333+18.08	29.09 RT	563527.38	811516.05	1142.52
W6SE-(15)	333+20.98	32.01 RT	563524.50	811519.00	1142.58
W6SE-(19)	333+24.59	31.38 RT	563525.20	811522.61	1143.10
W6SE-(20)	333+26.85	26.52 RT	563530.09	811524.78	1143.14
W6SE-(21)	333+29.09	26.52 RT	563530.13	811527.03	1143.18
W6SE-(22)	333+26.85	30.89 RT	563525.73	811524.85	1143.11
W6SE-(24)	333+37.02	24.08 RT	563532.71	811534.91	1142.99
W6SE-(25)	333+37.01	26.59 RT	563530.20	811534.94	1142.90
W6SE-(26)	333+37.05	30.82 RT	563525.97	811535.06	1143.03
W6SE-(27)	333+31.09	30.89 RT	563525.80	811529.09	1142.95

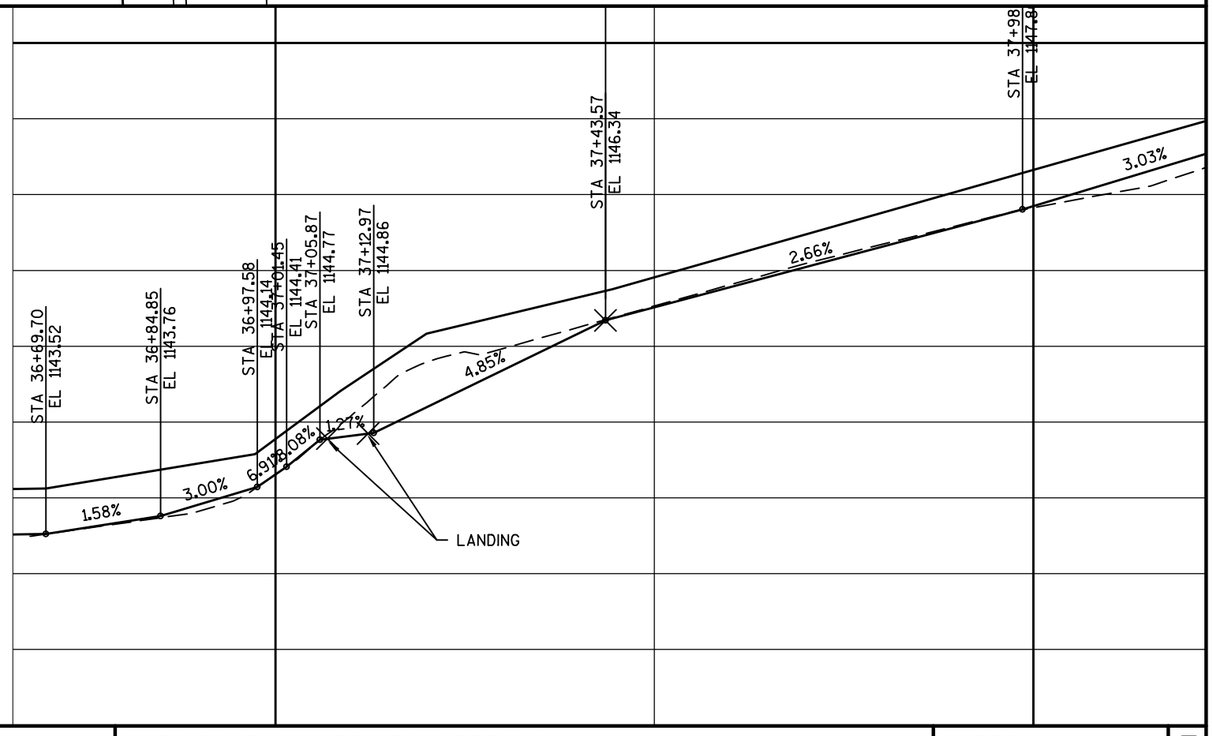




PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

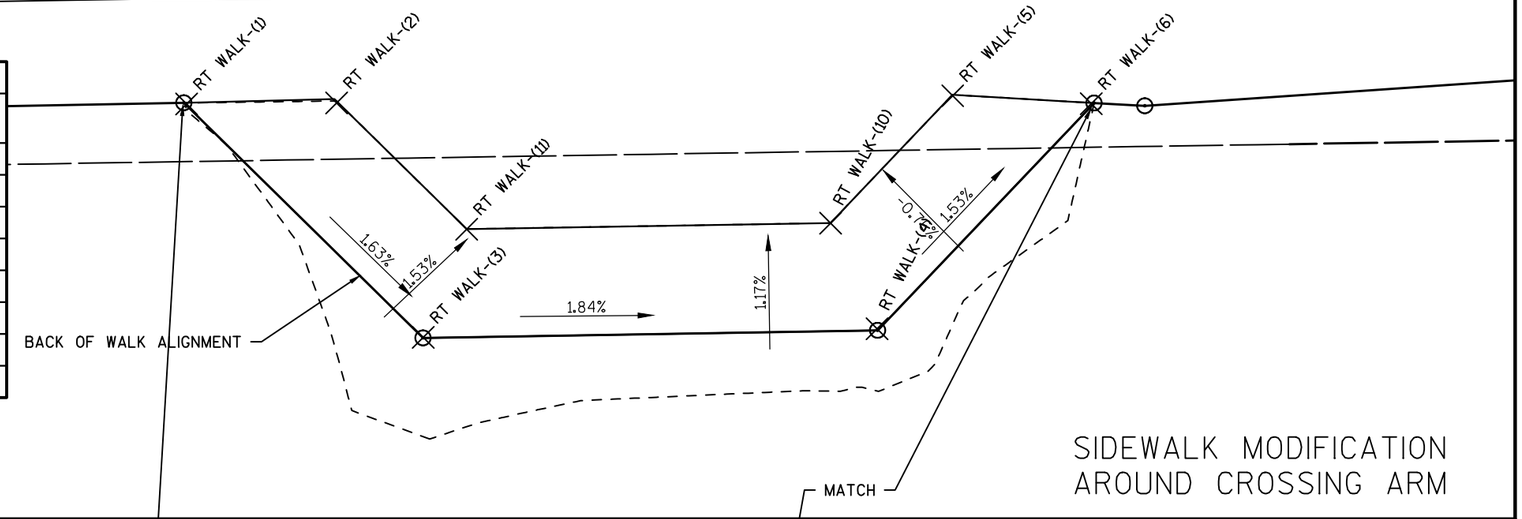
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W5SE-(1)	336+84.13	31.04 RT	563531.61	811882.09	1144.78
W5SE-(2)	336+87.87	27.27 RT	563535.44	811885.76	1144.85
W5SE-(3)	336+85.91	32.81 RT	563529.87	811883.90	1144.70
W5SE-(4)	336+89.32	29.38 RT	563533.35	811887.25	1144.77
W5SE-(5)	336+93.07	39.84 RT	563522.96	811891.17	1144.99
W5SE-(6)	336+96.41	36.40 RT	563526.46	811894.45	1145.05
W5SE-(7)	336+92.94	33.00 RT	563529.80	811890.93	1145.12
W5SE-(8)	336+99.05	29.87 RT	563533.03	811896.99	1145.52
W5SE-(9)	337+00.95	34.30 RT	563528.63	811898.96	1145.50
W5SE-(10)	337+18.52	31.60 RT	563531.63	811916.49	1146.58
W5SE-(11)	336+89.58	36.45 RT	563526.29	811887.63	1145.06
W5SE-(12)	336+94.59	31.75 RT	563531.07	811892.56	1145.24
W5SE-(13)	337+00.39	29.40 RT	563533.52	811898.32	1145.61
W5SE-(14)	337+18.52	26.68 RT	563536.55	811916.41	1146.75
W5SE-(15)	336+84.14	36.40 RT	563526.25	811882.19	0.00
W5SE-(16)	336+81.76	35.63 RT	563526.98	811879.79	1144.42



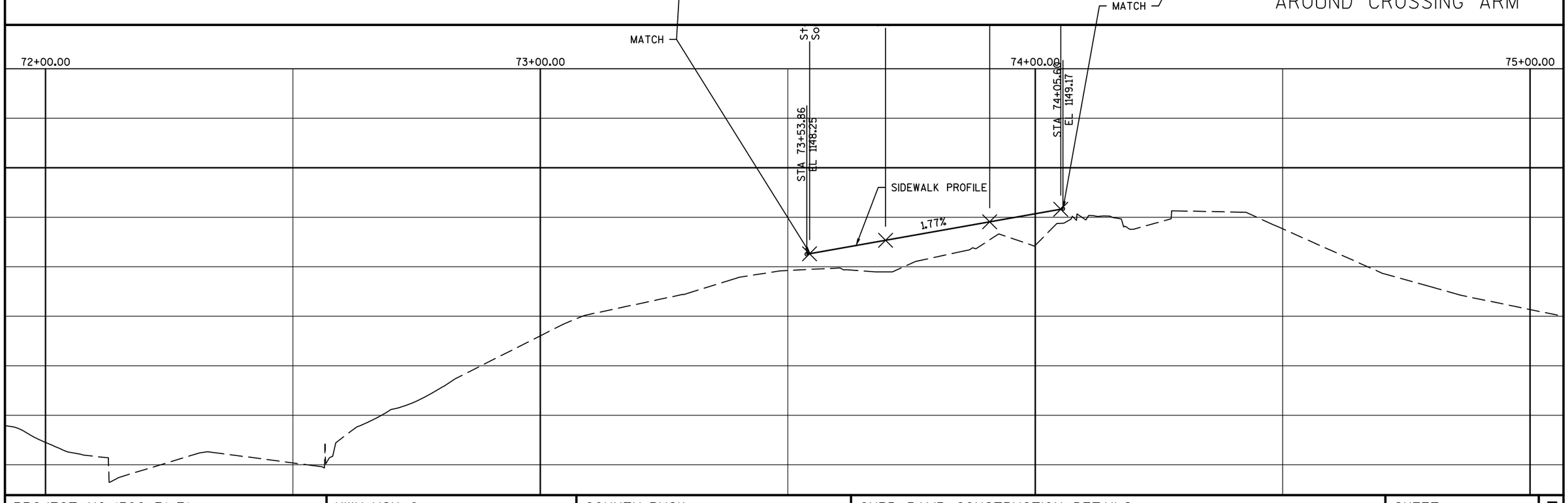


PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
RT WALK-(1)	337+75.10	31.57 RT	563532.61	811973.05	1148.27
RT WALK-(2)	337+82.03	31.64 RT	563532.66	811979.98	1148.47
RT WALK-(3)	337+85.84	42.53 RT	563521.83	811983.98	1148.53
RT WALK-(4)	338+06.81	42.49 RT	563522.23	812004.95	1148.90
RT WALK-(5)	338+10.49	31.78 RT	563533.00	812008.44	1149.00
RT WALK-(6)	338+16.88	32.26 RT	563532.63	812014.84	1149.16
RT WALK-(10)	338+04.75	37.58 RT	563527.11	812002.80	1148.98
RT WALK-(11)	337+87.93	37.57 RT	563526.83	811985.99	1148.61



SIDEWALK MODIFICATION
AROUND CROSSING ARM

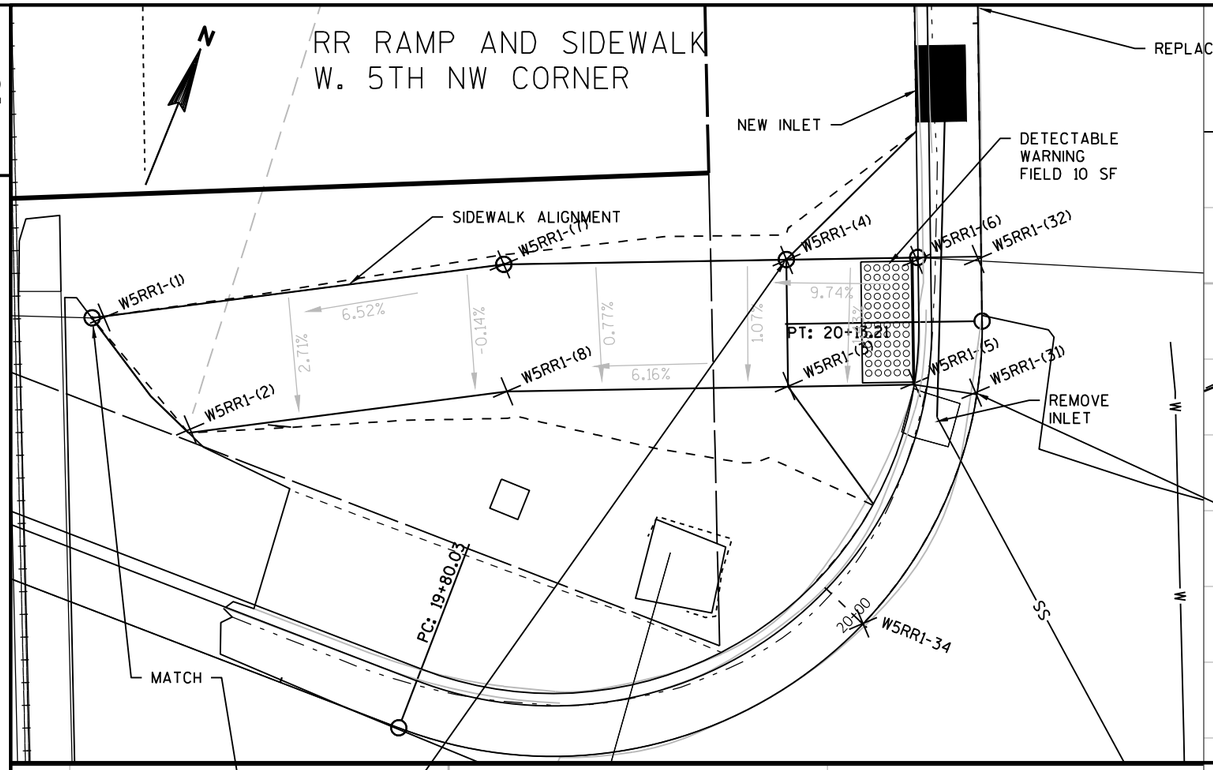


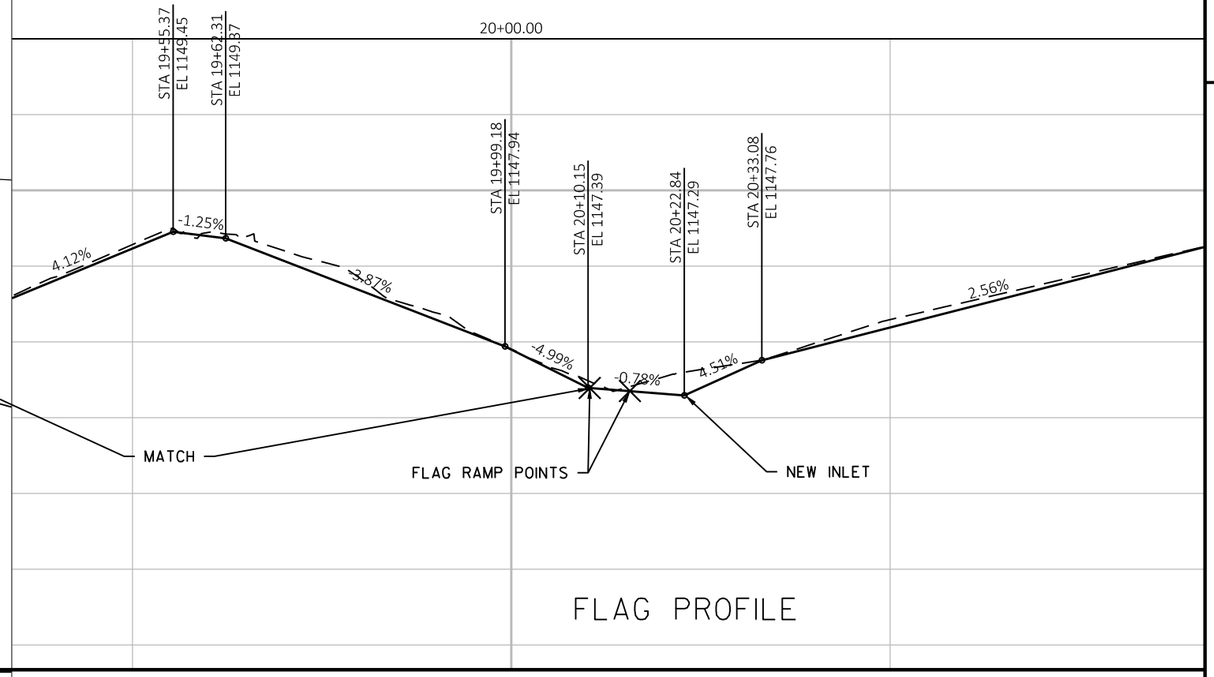
PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 1.DWG
LAYOUT NAME - ****
PLOT DATE : 5/4/2017 10:12 AM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : **********

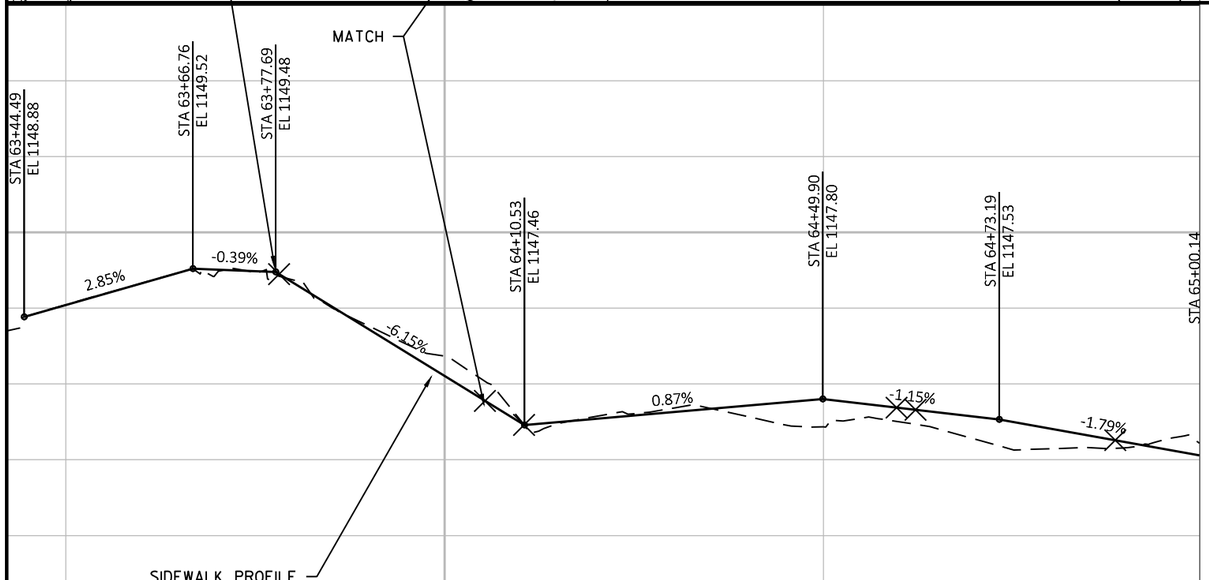
2

RR RAMP AND SIDEWALK
W. 5TH NW CORNER





FLAG PROFILE



SIDEWALK PROFILE

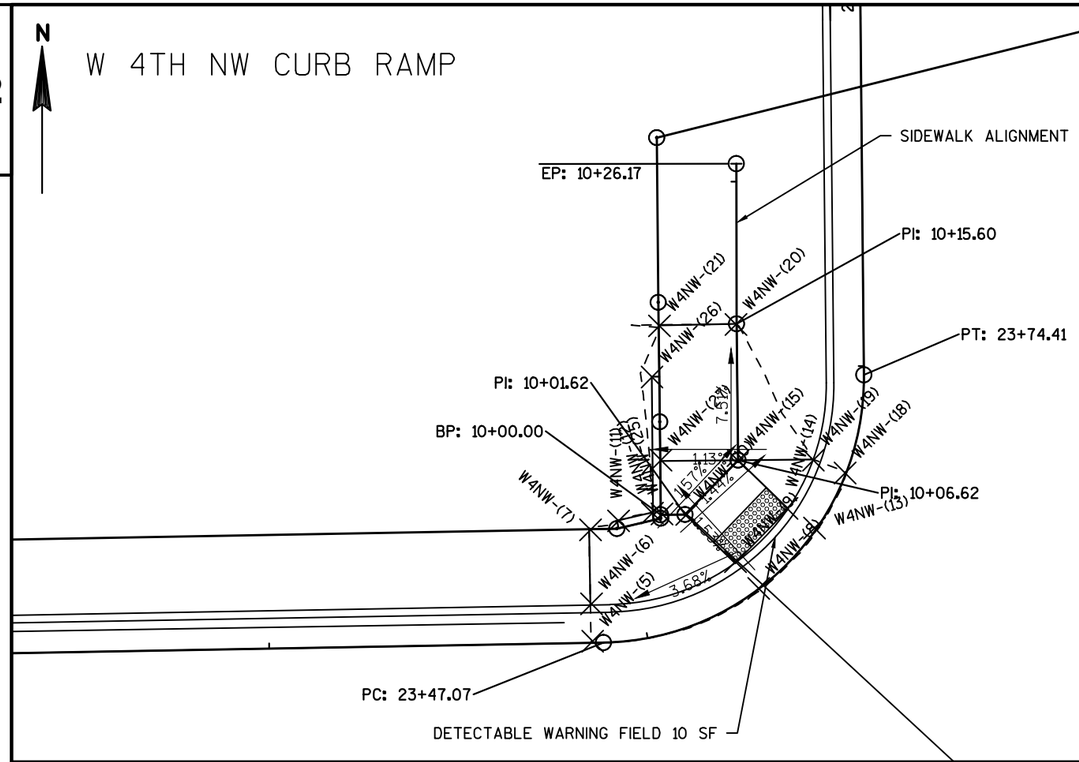
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W5RR1-(1)	338+05.51	-35.093	563599.78	812002.34	1149.445
W5RR1-(2)	338+10.29	-32.184	563596.95	812007.16	1149.491
W5RR1-(3)	338+31.80	-42.294	563607.42	812028.50	1147.824
W5RR1-(4)	338+29.92	-46.917	563612.02	812026.55	1147.725
W5RR1-(5)	338+36.40	-44.183	563609.39	812033.06	1147.313
W5RR1-(6)	338+34.74	-48.765	563613.94	812031.33	1147.275
W5RR1-(7)	338+19.53	-42.733	563607.66	812016.23	1148.379
W5RR1-(8)	338+21.46	-38.088	563603.05	812018.23	1148.459
W5RR1-(31)	338+38.79	-44.701	563609.95	812035.45	1147.390
W5RR1-(32)	338+36.99	-49.671	563614.89	812033.56	1147.346
W5RR1-34	338+37.91	-34.574	563599.81	812034.74	1147.898
W5RR1-35	338+30.61	-65.918	563631.03	812026.91	1147.758

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 2.DWG
LAYOUT NAME - ****
PLOT DATE : 3/2/2020 1:35 PM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : *********

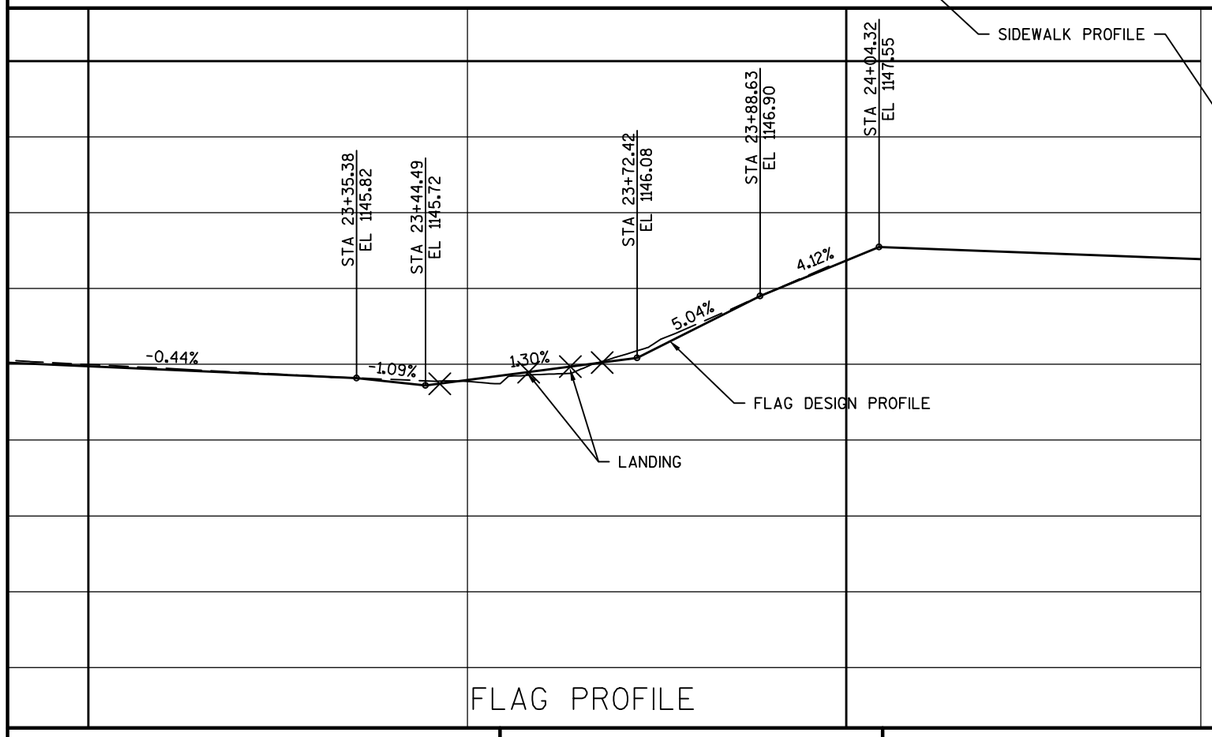
2

W 4TH NW CURB RAMP

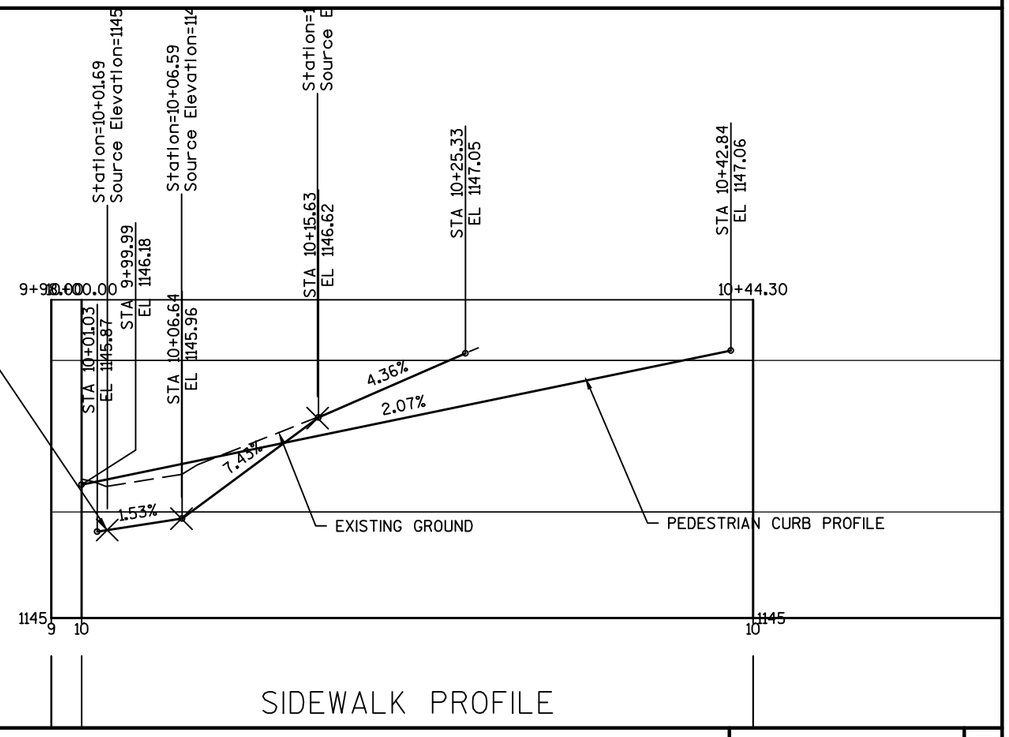


POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W4NW-(5)	339+97.92	24.24 LT	563592.18	812194.94	1145.74
W4NW-(6)	339+97.89	26.70 LT	563594.63	812194.87	1146.12
W4NW-(7)	339+97.89	31.58 LT	563599.52	812194.81	1146.19
W4NW-(8)	340+08.92	27.55 LT	563595.65	812205.90	1145.90
W4NW-(9)	340+07.42	29.34 LT	563597.41	812204.36	1145.82
W4NW-(10)	340+04.25	32.51 LT	563600.54	812201.15	1145.88
W4NW-(11)	339+99.75	32.15 LT	563600.11	812196.65	1146.21
W4NW-(12)	340+01.99	32.63 LT	563600.63	812198.89	1146.22
W4NW-(13)	340+12.67	31.48 LT	563599.63	812209.58	1145.96
W4NW-(14)	340+10.87	32.80 LT	563600.93	812207.76	1145.89
W4NW-(15)	340+07.70	36.00 LT	563604.08	812204.54	1145.96
W4NW-(18)	340+14.74	35.09 LT	563603.27	812211.60	1146.02
W4NW-(19)	340+12.66	35.97 LT	563604.12	812209.51	1146.40
W4NW-(20)	340+07.69	44.99 LT	563613.07	812204.40	1146.62
W4NW-(21)	340+02.64	44.97 LT	563612.98	812199.36	1146.76
W4NW-(25)	340+02.61	32.57 LT	563600.57	812199.51	1146.08
W4NW-(26)	340+02.10	41.61 LT	563609.60	812198.86	1146.44
W4NW-(27)	340+02.60	36.12 LT	563604.12	812199.44	1146.00

2



FLAG PROFILE

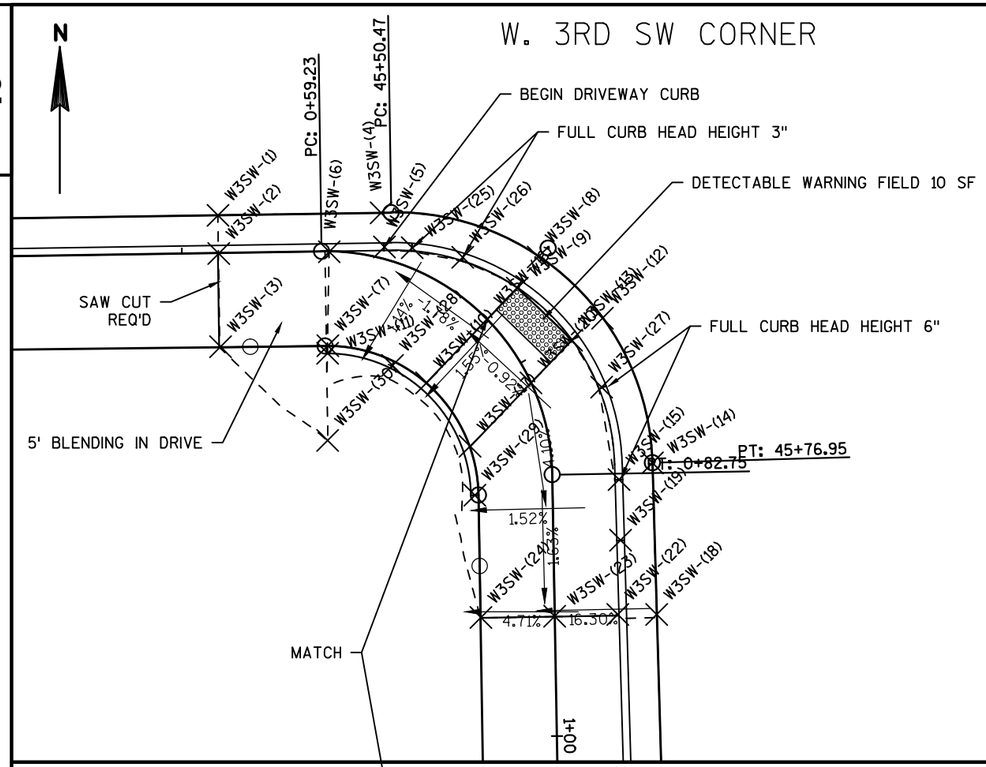


SIDEWALK PROFILE

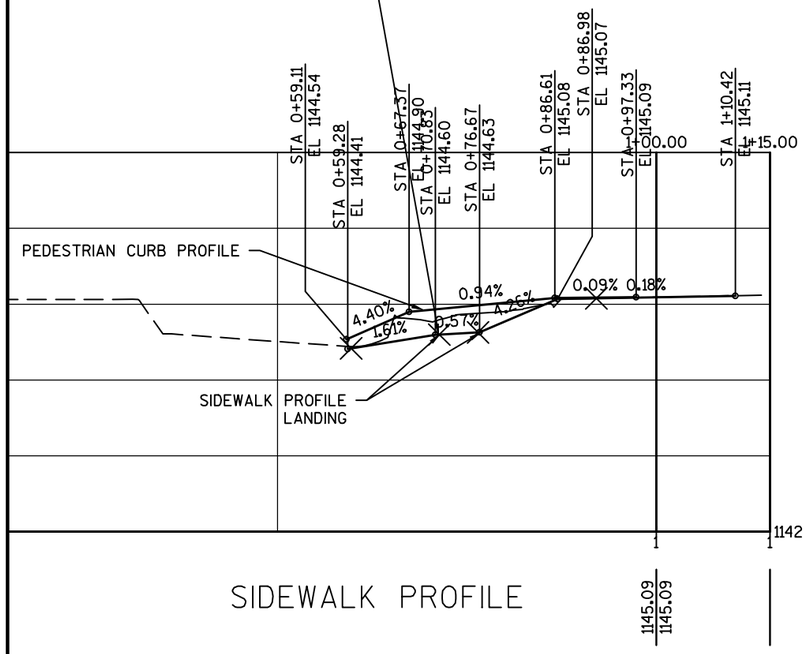
PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 2.DWG
LAYOUT NAME - ****
PLOT DATE : 5/4/2017 10:40 AM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : **********

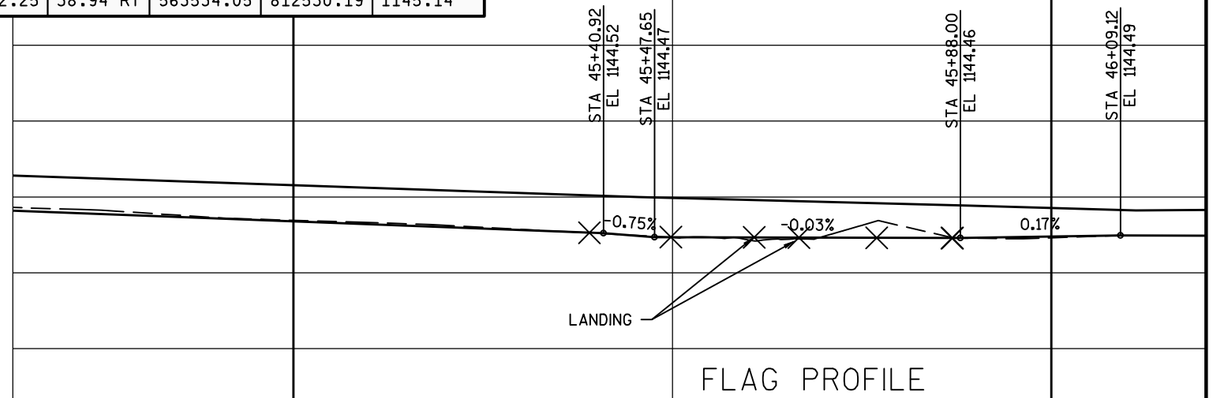
W. 3RD SW CORNER



POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
W3SW-(1)	343+25.25	23.98 RT	563548.90	812522.96	1144.53
W3SW-(2)	343+25.27	26.50 RT	563546.38	812523.02	1144.46
W3SW-(3)	343+25.28	32.65 RT	563540.23	812523.12	1145.05
W3SW-(4)	343+36.01	23.97 RT	563549.07	812533.72	1144.47
W3SW-(5)	343+36.20	26.23 RT	563546.81	812533.95	1144.39
W3SW-(6)	343+32.55	26.49 RT	563546.50	812530.30	1144.40
W3SW-(7)	343+32.36	32.69 RT	563540.30	812530.21	1144.51
W3SW-(8)	343+46.34	27.04 RT	563546.16	812544.10	1144.46
W3SW-(9)	343+44.92	29.07 RT	563544.11	812542.71	1144.39
W3SW-(10)	343+38.84	35.23 RT	563537.86	812536.73	1144.69
W3SW-(11)	343+32.35	33.19 RT	563539.80	812530.20	1144.57
W3SW-(12)	343+50.51	31.15 RT	563542.11	812548.34	1144.46
W3SW-(13)	343+48.45	32.57 RT	563540.66	812546.29	1144.40
W3SW-(14)	343+53.67	40.74 RT	563532.57	812551.64	1144.45
W3SW-(15)	343+51.44	41.81 RT	563531.47	812549.42	1144.78
W3SW-(16)	343+42.89	31.12 RT	563542.03	812540.71	1144.60
W3SW-(17)	343+41.64	39.46 RT	563533.67	812539.59	1144.86
W3SW-(18)	343+53.79	50.75 RT	563522.57	812551.90	1144.44
W3SW-(19)	343+51.49	45.82 RT	563527.46	812549.53	1144.38
W3SW-(20)	343+45.73	35.34 RT	563537.85	812543.61	1144.66
W3SW-(22)	343+51.23	50.71 RT	563522.57	812549.34	1144.40
W3SW-(23)	343+47.06	50.76 RT	563522.45	812545.18	1145.08
W3SW-(24)	343+42.20	50.78 RT	563522.36	812540.31	1145.32
W3SW-(25)	343+38.02	26.31 RT	563546.76	812535.77	1144.79
W3SW-(26)	343+41.35	26.99 RT	563546.13	812539.11	1144.79
W3SW-(27)	343+50.39	35.69 RT	563537.57	812548.28	1144.78
W3SW-(28)	343+36.61	34.06 RT	563538.99	812534.48	1144.90
W3SW-(29)	343+41.91	42.69 RT	563530.44	812539.91	1145.06
W3SW-(30)	343+32.25	38.94 RT	563534.05	812530.19	1145.14



SIDEWALK PROFILE



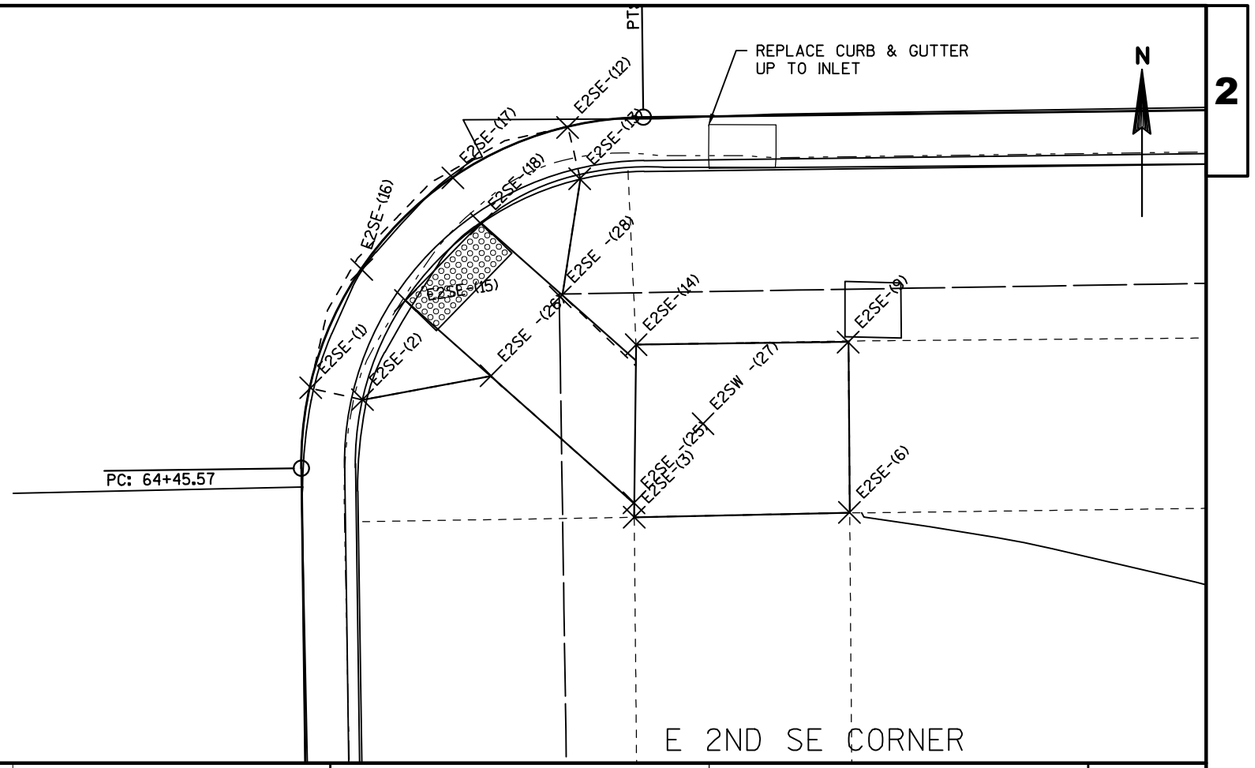
FLAG PROFILE

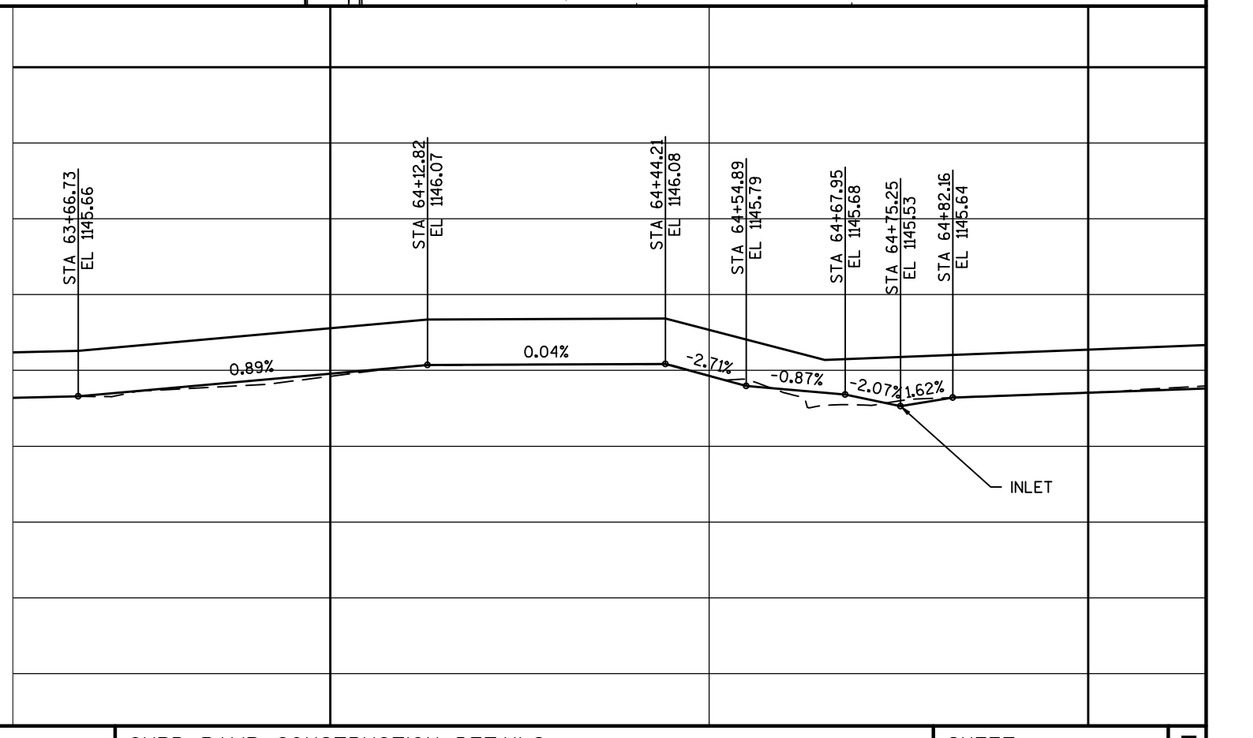
PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 2.DWG
LAYOUT NAME - ****
PLOT DATE : 5/4/2017 10:41 AM
PLOT BY : PEARSON, MICHAEL R
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

2

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
E2SE-(1)	353+85.50	36.49 RT	563551.62	813583.21	1145.95
E2SE-(2)	353+87.88	37.07 RT	563551.07	813585.60	1145.85
E2SE-(3)	354+00.36	42.66 RT	563545.64	813598.16	1146.34
E2SE-(6)	354+10.30	42.57 RT	563545.86	813608.09	1146.18
E2SE-(9)	354+10.34	34.70 RT	563553.73	813608.03	1146.16
E2SE-(12)	353+97.51	24.61 RT	563563.65	813595.07	1145.61
E2SE-(13)	353+98.05	26.99 RT	563561.27	813595.64	1145.72
E2SE-(14)	354+00.55	34.69 RT	563553.61	813598.24	1146.21
E2SE-(15)	353+89.93	32.51 RT	563555.65	813587.59	1145.77
E2SE-(16)	353+87.92	31.06 RT	563557.08	813585.56	1145.68
E2SE-(17)	353+92.19	26.88 RT	563561.31	813589.77	1145.58
E2SE-(18)	353+93.47	29.02 RT	563559.19	813591.09	1145.78
E2SE -(25)	354+00.35	41.99 RT	563546.31	813598.14	1146.34
E2SE -(26)	353+93.83	36.04 RT	563552.17	813591.54	1146.34
E2SE -(28)	353+97.07	32.44 RT	563555.82	813594.73	1146.34





PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	CURB RAMP CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\RAMP DETAILS\0501022 RAMP 3.DWG
LAYOUT NAME - ****
PLOT DATE : 5/4/2017 8:11 AM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1:7

N

GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE

W 6TH ST N

SAW CUT 2'X4' PATCH AND INSTALL DETCTABLE WARNING FIELD

909
1143.682
CP PK

5

331+00 332+00 333+00 334+00 335+00 336+00

PI: 20+00.00

EP: 25+00.00

908
1143.719
CP PK

910
1144.024
CP PK

911
1144.465
CP X

SAW CUT FLAG RADIUS AND SIDEWALK WHERE CURB RAMPS WILL BE INSTALLED

REPLACE CURB & GUTTER TO SLOPE INTERCEPTS MINIMUM. (ALL QUADRANTS)

CONTROL POINTS

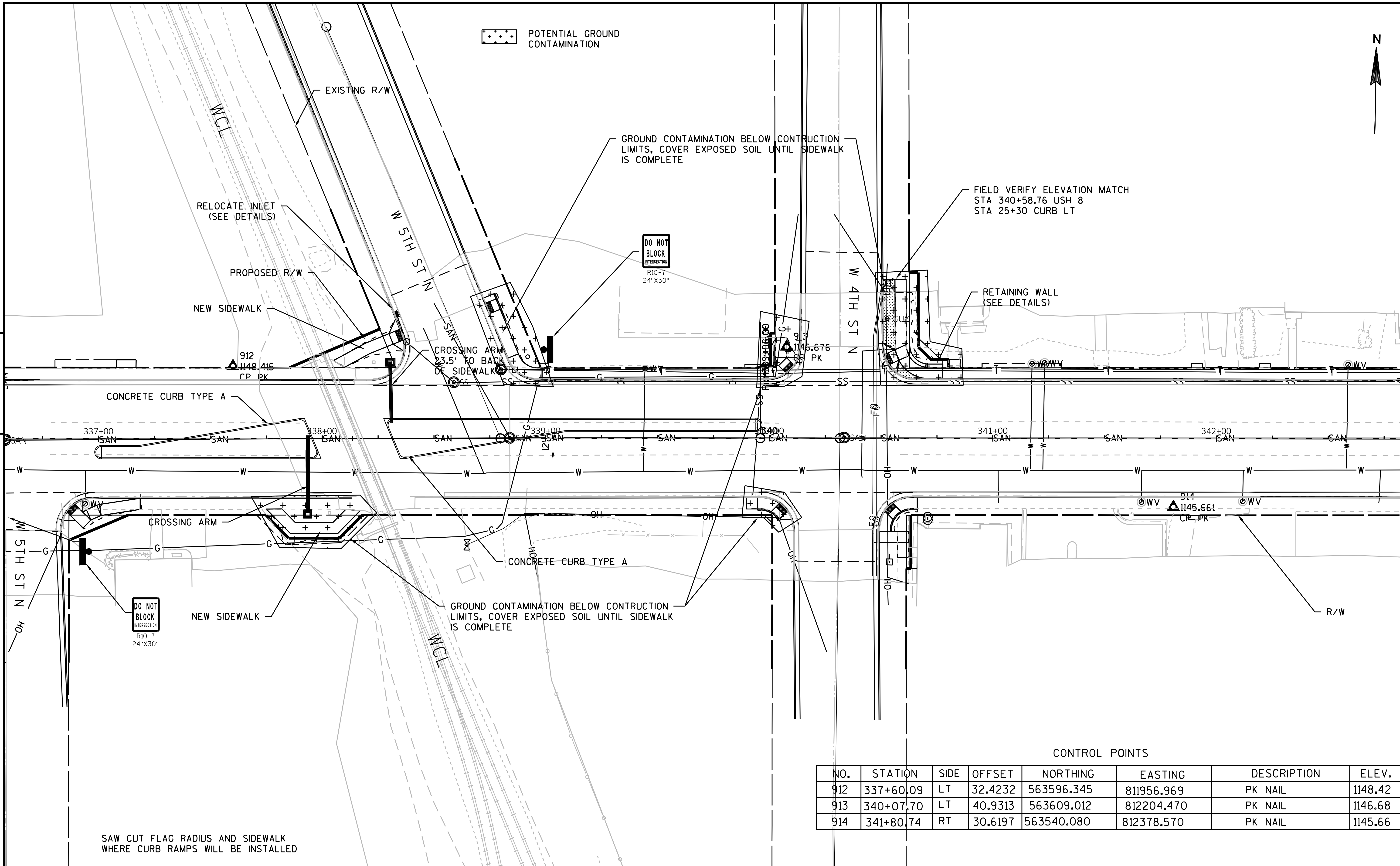
NO.	STATION	SIDE	OFFSET	NORTHING	EASTING	DESCRIPTION	ELEV.
908	330+62.02	RT	30.4976	563521.649	811260.059	PK NAIL	1143.72
909	333+26.81	LT	39.4805	563596.087	811523.627	PK NAIL	1143.68
910	334+85.52	RT	30.8018	563528.494	811683.504	PK NAIL	1144.02
911	336+32.75	RT	36.9181	563524.864	811830.819	CP MARK X	1144.47
'	'	'	'	'	'	'	'

PROJECT NO:1580-31-71	HWY: USH 8	COUNTY: RUSK	PLAN	SHEET	E

FILE NAME : N:\PDS\C3D\15803100\SHEETSPLAN\PLAN\PLAN 2-20-20.DWG
LAYOUT NAME - SHEET - (2)

PLOT DATE : 3/10/2020 11:20 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:40 FT


POTENTIAL GROUND CONTAMINATION
N
EXISTING R/W
WCL
W 5TH ST N
GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE
FIELD VERIFY ELEVATION MATCH
STA 340+58.76 USH 8
STA 25+30 CURB LT
RELOCATE INLET
(SEE DETAILS)
DO NOT BLOCK INTERSECTION
R10-7
24"X30"
PROPOSED R/W
NEW SIDEWALK
W 4TH ST N
RETAINING WALL
(SEE DETAILS)
912
1148.415
CP PK
CROSSING ARM
23.5' TO BACK OF SIDEWALK
1146.676
CP PK
5
CONCRETE CURB TYPE A
337+00
338+00
339+00
340+00
341+00
342+00
SAN
W
G
OH
SS
T
WV
914
1145.661
CP PK
CROSSING ARM
W 5TH ST N
CONCRETE CURB TYPE A
DO NOT BLOCK INTERSECTION
R10-7
24"X30"
NEW SIDEWALK
GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE
WCL
R/W
SAW CUT FLAG RADIUS AND SIDEWALK WHERE CURB RAMPS WILL BE INSTALLED

CONTROL POINTS

NO.	STATION	SIDE	OFFSET	NORTHING	EASTING	DESCRIPTION	ELEV.
912	337+60.09	LT	32.4232	563596.345	811956.969	PK NAIL	1148.42
913	340+07.70	LT	40.9313	563609.012	812204.470	PK NAIL	1146.68
914	341+80.74	RT	30.6197	563540.080	812378.570	PK NAIL	1145.66

PROJECT NO:1580-31-71	HWY:USH 8	COUNTY:RUSK	PLAN	SHEET	E

CONTROL POINTS

NO.	STATION	SIDE	OFFSET	NORTHING	EASTING	DESCRIPTION	ELEV.
915	344+79.96	RT	31.2865	563543.928	812677.764	PK NAIL	1145.26
916	346+80.33	LT	55.5401	563633.768	812876.804	PK NAIL	1146.26
917	348+48.41	RT	31.1328	563549.641	813046.170	PK NAIL	1146.81
'	'	'	'	'	'	'	'
'	'	'	'	'	'	'	'

GROUND CONTAMINATION

N

GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE

W 3RD ST N

RELOCATE PEDESTRIAN CROSSING LIGHT STA 346+71, 35' LT

916
1146.256
CP X

W 2ND ST N

5

5

343+00 344+00 345+00 346+00 347+00 348+00 349+00

PI: 40+00.00

915
1145.259
CP PK

917
1146.806
CP X

RELOCATE PEDESTRIAN CROSSING LIGHT STA 346+71, 34' RT

ASPHALTIC SURFACE APRON

GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE

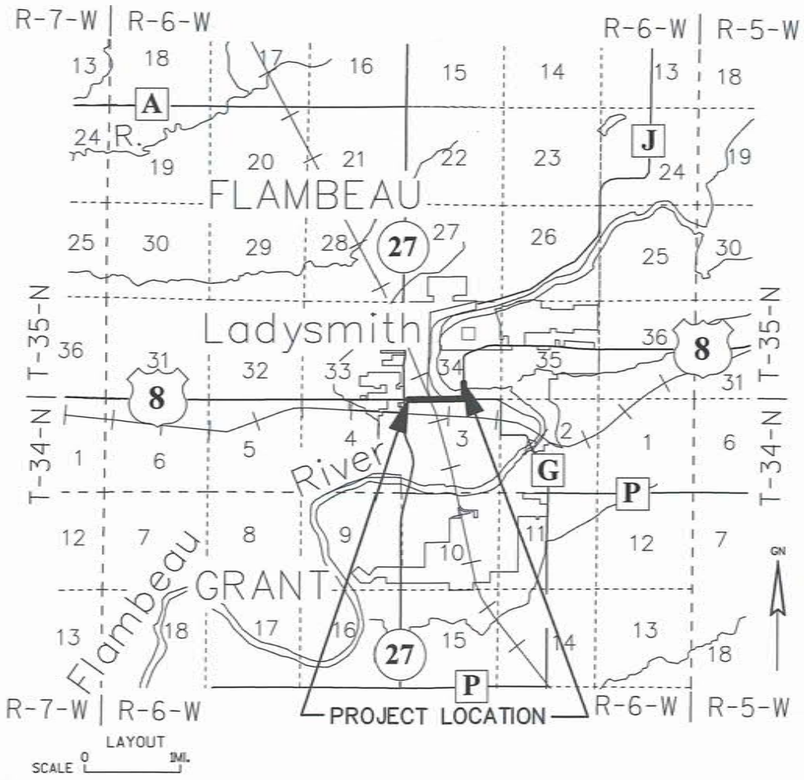
GROUND CONTAMINATION BELOW CONTRUCTION LIMITS, COVER EXPOSED SOIL UNTIL SIDEWALK IS COMPLETE

REPLACE CURB AND GUTTER TO ACCOMODATE NEW CURB RAMPS MINIMUM.

SAW CUT FLAG RADIUS AND SIDEWALK WHERE CURB RAMPS WILL BE INSTALLED

PROJECT NO: 1580-31-71	HWY: USH 8	COUNTY: RUSK	PLAN	SHEET	E

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 1580-31-20
CITY OF LADYSMITH
STH 27 - RIVER AVE
U.S.H. "8"
RUSK COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTIBLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
BRIDGE

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON MON.
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		
LIGHT POLE		

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

PARCEL NUMBER 25
UTILITY NUMBER 40
EXISTING MONUMENT NUMBER ****
R/W BOUNDARY POINT NUMBER ***

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER —W—
GAS —G—
TELEPHONE —T—
OVERHEAD TRANSMISSION LINES —OH—
ELECTRIC —E—
CABLE TELEVISION —TV—
FIBER OPTIC —FO—
SANITARY SEWER —SAN—
STORM SEWER —SS—

Include this note

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), RUSK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY CAPPED 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN NW REGION, WI.
Spooner

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR U.S.H. "8" ESTABLISHED FROM PREVIOUS PROJECT 1580-10-21, VARIOUS PLATS AND CSM'S AS LAID OUT IN THE BASIS OF EXISTING R/W TABLES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO*16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE :
PLOT DATE : November 15, 2019
PLOT BY : KOLBY SCHERTZ
PLOT NAME : USH 8

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.01

LOCATED IN PART OF LOT 6, BLOCK 7, LOTS 1 AND 4, BLOCK 8 AND VACATED WEST 8TH STREET SOUTH, OF THE LAYDSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, AND PART OF LOT 12, BLOCK 11, LOTS 6 AND 7 AND VACATED ALLEY, BLOCK 12 AND LOT 7, BLOCK 13 OF PLAT OF NEW FLAMBEAU, LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.01
SHEET 1 OF 2
AMENDMENT NO:...

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT

POINT	STATION	OFFSET	Y COORDS	X COORDS
100	326+26.72	32.96' LT	563577.750	810823.748
101	326+26.75	97.96' LT	563642.742	810822.677
102	327+06.75	97.93' LT	563644.059	810902.666
103	327+06.72	32.88' LT	563579.018	810903.738
104	329+13.86	32.66' LT	563582.300	811110.852
105	329+20.86	36.76' LT	563586.511	811117.780
106	329+20.81	102.16' LT	563651.901	811116.634
107	329+80.81	102.20' LT	563652.952	811176.625
108	329+80.86	38.50' LT	563589.267	811177.741
109	329+93.24	32.58' LT	563583.558	811190.223
110	331+68.35	32.40' LT	563586.333	811365.311
111	331+68.28	33.60' RT	563520.341	811366.357
112	329+84.89	33.41' RT	563517.435	811182.994
113	329+79.51	38.96' RT	563511.798	811177.705
114	329+79.09	108.90' RT	563441.855	811178.465
115	329+93.09	108.54' RT	563441.203	811198.469
PLE180	327+83.19	32.80' LT	563580.230	810980.197
PLE181	327+83.19	34.80' LT	563582.230	810980.166
PLE182	328+56.31	34.72' LT	563583.388	811053.275
PLE183	328+56.31	40.72' LT	563589.387	811053.180

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT

POINT	STATION	OFFSET	Y COORDS	X COORDS
PLE184	328+62.31	40.72' LT	563589.483	811059.179
PLE185	328+62.31	32.72' LT	563581.484	811059.306
PLE186	331+02.02	32.47' LT	563585.282	811298.989
PLE187	331+02.02	34.47' LT	563587.282	811298.957
PLE188	331+07.02	34.46' LT	563587.361	811303.956
PLE189	331+07.02	32.46' LT	563585.361	811303.988
PROP804	325+76.76	33.01' LT	563576.959	810773.795
PROP806	325+76.69	32.99' RT	563510.967	810774.841
PROP811	329+19.55	33.34' RT	563515.400	811117.652
TLE150	326+17.91	32.97' LT	563577.611	810814.940
TLE151	326+17.91	33.87' LT	563578.511	810814.926
TLE152	326+26.72	34.01' LT	563578.800	810823.730
TLE153	327+06.72	45.88' LT	563592.016	810903.524
TLE154	327+08.72	45.88' LT	563592.048	810905.523
TLE155	327+08.72	32.88' LT	563579.050	810905.737
TLE156	329+05.61	32.67' LT	563582.170	811102.602
TLE157	329+05.61	34.17' LT	563583.669	811102.578
TLE158	329+16.42	34.16' LT	563583.841	811113.387
TLE159	329+19.32	35.86' LT	563585.586	811116.258
TLE160	329+19.28	51.24' LT	563600.966	811115.956

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT

POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE161	329+20.85	51.24' LT	563600.994	811117.526
TLE162	329+91.14	33.58' LT	563584.525	811188.110
TLE163	329+96.01	33.58' LT	563584.602	811192.977
TLE164	329+96.01	32.58' LT	563583.602	811192.993
TLE165	329+98.73	33.42' RT	563517.655	811196.824
TLE166	329+98.68	34.13' RT	563516.944	811196.765
TLE167	329+84.17	34.16' RT	563516.675	811182.281
TLE168	329+19.54	34.34' RT	563515.400	811117.663
TLE169	329+12.36	34.33' RT	563515.286	811110.486
TLE170	329+12.36	33.33' RT	563516.286	811110.470
TLE171	327+05.67	33.12' RT	563513.011	810903.801
TLE172	327+05.66	34.12' RT	563512.010	810903.813
TLE173	326+76.63	34.09' RT	563511.553	810874.789
TLE174	326+76.64	33.09' RT	563512.551	810874.773
TLE175	326+44.34	33.06' RT	563512.039	810842.479
TLE176	326+44.33	37.06' RT	563508.040	810842.543
TLE177	326+38.05	37.05' RT	563507.940	810836.259
TLE178	326+38.00	33.05' RT	563511.939	810836.147

STATION & OFFSET TABLE TO WEST 8TH STREET NORTH

POINT	STATION	OFFSET
100	10+32.83	39.38' LT
101	10+97.83	39.57' LT
102	10+98.06	40.43' RT
103	10+33.01	40.62' RT
TLE152	10+33.83	39.38' LT
TLE153	10+46.01	40.58' RT
TLE154	10+46.02	42.58' RT
TLE155	10+33.02	42.62' RT

SECTION COURSE TABLE

COURSE	BEARING	DISTANCE
133-126	N 89°05'31" E	2638.617'
133-PROP804	N 89°05'31" E	179.341'
126-110	S 89°05'31" W	1867.686'
100-103	N 89°05'31" E	80.000'
104-109	N 89°05'31" E	79.380'
PLE180-PLE185	N 89°05'31" E	79.120'
PLE186-PLE189	N 89°05'31" E	5.000'

BASIS OF EXISTING R/W TABLE

ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE WEST)	PLAT OF NEW FLAMBEAU	-	1/3	1902
USH 8 (LAKE AVE WEST)	THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH	-	1/2	1903
WEST 8TH STREET NORTH	PLAT OF NEW FLAMBEAU	-	1/3	1902
WEST 7TH STREET NORTH	PLAT OF NEW FLAMBEAU	-	1/3	1902
WEST 7TH STREET SOUTH	THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH	-	1/2	1903

R/W COURSE TABLE

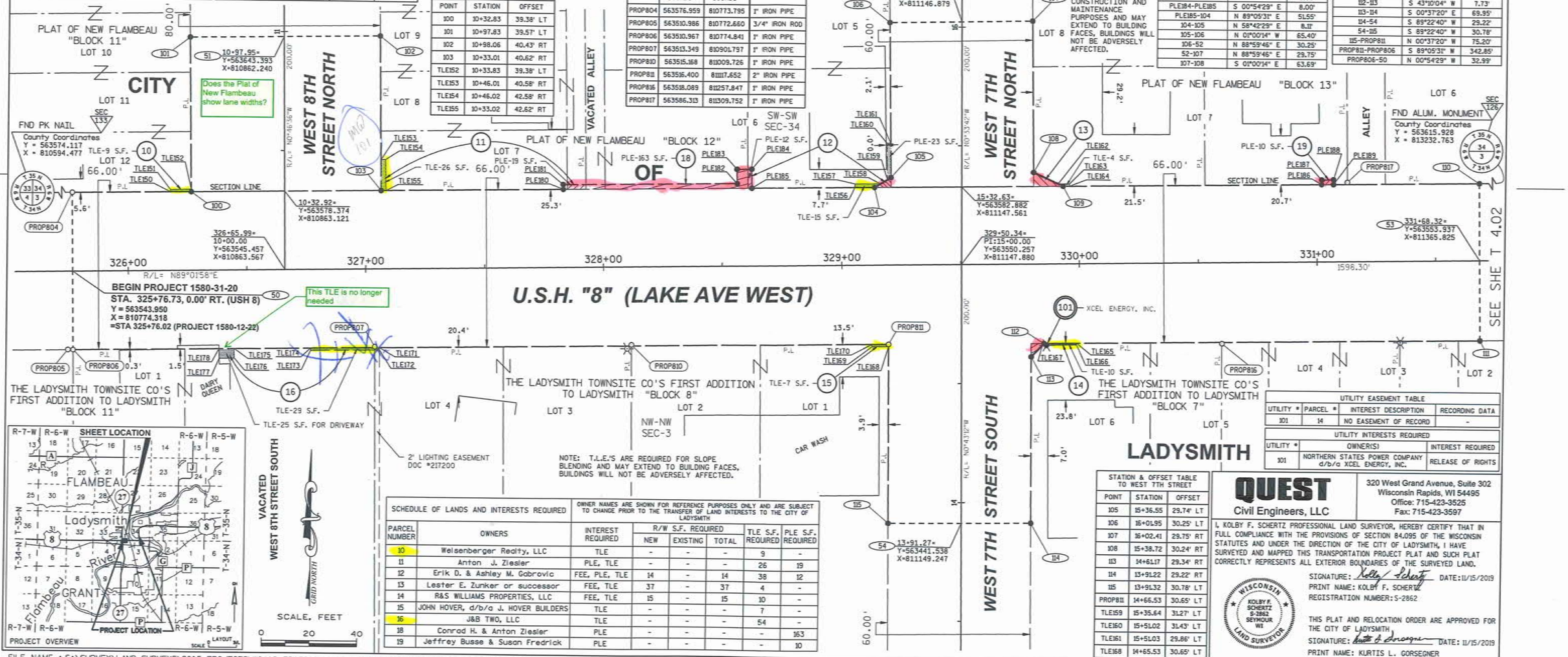
COURSE	BEARING	DISTANCE
50-PROP804	N 00°54'29" W	33.01'
PROP804-100	N 89°05'31" E	49.96'
100-101	N 00°56'37" W	65.00'
101-51	N 89°03'23" E	39.57'
51-102	N 89°03'23" E	40.43'
102-103	S 00°56'37" E	65.05'
103-PLE180	N 89°05'31" E	76.47'
PLE180-PLE181	N 00°54'29" W	2.00'
PLE181-PLE182	N 89°05'31" E	73.12'
PLE182-PLE183	N 00°54'29" W	6.00'
PLE183-PLE184	N 89°05'31" E	6.00'
PLE184-PLE185	S 00°54'29" E	8.00'
PLE185-104	N 89°05'31" E	51.55'
104-105	N 58°42'29" E	8.11'
105-106	N 01°00'14" W	65.40'
106-52	N 88°59'46" E	30.25'
52-107	N 88°59'46" E	29.75'
107-108	S 01°00'14" E	63.69'

R/W COURSE TABLE

108-109	S 65°25'20" E	13.73'
109-PLE186	N 89°05'31" E	108.78'
PLE186-PLE187	N 00°54'29" W	2.00'
PLE187-PLE188	N 89°05'31" E	5.00'
PLE188-PLE189	S 00°54'29" E	2.00'
PLE189-110	N 89°05'31" E	61.33'
110-53	S 00°54'29" E	32.40'
53-111	S 00°54'29" E	33.60'
111-112	S 89°05'31" W	183.39'
112-113	S 43°10'04" W	7.73'
113-114	S 00°37'20" E	69.95'
114-54	S 89°22'40" W	29.22'
54-115	S 89°22'40" W	30.78'
115-PROP811	N 00°37'20" W	75.20'
PROP811-PROP806	S 89°05'31" W	342.85'
PROP806-50	N 00°54'29" W	32.99'

EXISTING MONUMENTS

Point #	Y COORDS	Y COORDS	DESCRIPTION
PROP804	563576.959	810773.795	1" IRON PIPE
PROP805	563510.986	810772.660	3/4" IRON ROD
PROP806	563510.967	810774.841	1" IRON PIPE
PROP807	563513.349	810901.797	1" IRON PIPE
PROP810	563515.158	811009.726	1" IRON PIPE
PROP811	563515.400	811117.652	2" IRON PIPE
PROP816	563518.089	811257.847	1" IRON PIPE
PROP817	563586.313	811309.752	1" IRON PIPE



UTILITY EASEMENT TABLE

UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
101	14	NO EASEMENT OF RECORD	-

UTILITY INTERESTS REQUIRED

UTILITY #	OWNER(S)	INTEREST REQUIRED
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY, INC.	RELEASE OF RIGHTS

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	TLE S.F. REQUIRED	PLE S.F. REQUIRED
10	Weisenberger Realty, LLC	TLE	-	-	-	9	-
11	Anton J. Ziesler	PLE, TLE	-	-	-	26	19
12	Erik D. & Ashley M. Gabrovic	FEE, PLE, TLE	14	-	14	38	12
13	Lester E. Zunker or successor	FEE, TLE	37	-	37	4	-
14	R&S WILLIAMS PROPERTIES, LLC	FEE, TLE	15	-	15	10	-
15	JOHN HOVER, d/b/a J. HOVER BUILDERS	TLE	-	-	-	7	-
16	J&B TWO, LLC	TLE	-	-	-	54	-
18	Conrad H. & Anton Ziesler	PLE	-	-	-	-	163
19	Jeffrey Busse & Susan Fredrick	PLE	-	-	-	-	10

STATION & OFFSET TABLE TO WEST 7TH STREET

POINT	STATION	OFFSET
105	15+36.55	29.74' LT
106	16+01.95	30.25' LT
107	16+02.41	29.75' RT
108	15+38.72	30.24' RT
113	14+61.17	29.34' RT
114	13+91.22	29.22' RT
115	13+91.32	30.78' LT
PROP811	14+66.53	30.65' LT
TLE159	15+35.64	31.27' LT
TLE160	15+51.02	31.43' LT
TLE161	15+51.03	29.86' LT
TLE168	14+65.53	30.65' LT

13+91.27= Y=563441.538 X=811149.247

QUEST
Civil Engineers, LLC
320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby F. Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH
SIGNATURE: Kurtis L. Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\#0*16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.02

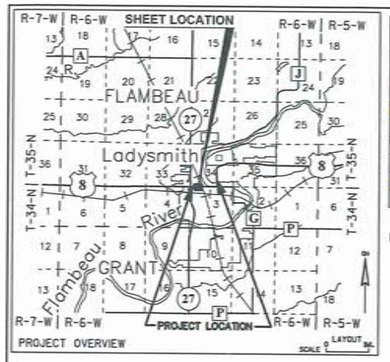
LOCATED IN PART OF LOTS 1 & 6, BLOCK 4 AND LOT 1, BLOCK 7 OF THE LAYDSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH, AND LOT 6, BLOCK 9 OF FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER; ALL LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, AND PART OF LOT 6, BLOCK 13 OF PLAT OF NEW FLAMBEAU, LOTS 6 & 7, BLOCK 1 OF THE FLAMBEAU TOWN CO'S THIRD ADDITION TO LADYSMITH, VACATED WEST 5TH STREET NORTH AND LOT 1 OF OF CSM NO. 337; LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.02
AMENDMENT NO:____



SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH					
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F. REQUIRED	PLE S.F. REQUIRED
			NEW	EXISTING	TOTAL		
20	Lyndale Terminal Co	FEE, TLE	15	-	15	15	-
21	Glen M. & Catherine E. Clayton	FEE, TLE, PLE	20	-	20	188	51
22	Buchholz Feed Store, Inc.	FEE	149	-	149	-	-
23	Dale E. Dixon	TLE	-	-	-	3	-
24	James & Gwendolyn Kauffman	FEE	6	-	6	-	-
25	R&S Williams Properties, LLC	TLE	-	-	-	6	-

NOTE: NO UTILITY INTERESTS REQUIRED

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
133-126	N 89°05'31" E	2638.617'
133-130	N 89°05'31" E	770.931'
200-205	N 89°05'31" E	74.38'
126-206	S 89°05'31" W	1319.309'

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER --------- IN THE OFFICE OF THE RUSK COUNTY REGISTER OF DEED'S.

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE WEST)	PLAT OF NEW FLAMBEAU	-	1/3	1902
USH 8 (LAKE AVE WEST)	THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH	-	1/2	1903
USH 8 (LAKE AVE WEST)	FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER	-	1/24	1902
USH 8 (LAKE AVE WEST)	THE FLAMBEAU TOWN CO'S THIRD ADDITION TO LADYSMITH	-	1/4	1902
WEST 6TH STREET NORTH	THE FLAMBEAU TOWN CO'S THIRD ADDITION TO LADYSMITH	-	1/4	1902
WEST 6TH STREET NORTH	PLAT OF NEW FLAMBEAU	-	1/3	1902
WEST 6TH STREET SOUTH	THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH	-	1/2	1903
WEST 5TH STREET SOUTH	THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH	-	1/2	1903
WEST 5TH STREET SOUTH	FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER	-	1/24	1902

CITY

LOT 5 | LOT 8 | LOT 7 | LOT 6 | LOT 4 | LOT 3 | LOT 2 | LOT 1

SURVEY BY: RONNIE CAMPBELL S-1315

SW-SW SEC-34

PLAT OF NEW FLAMBEAU "BLOCK 13"

THE FLAMBEAU TOWN CO'S THIRD ADDITION TO LADYSMITH "BLOCK 1"

SURVEY BY: DAVID KAISER S-1516

FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER "BLOCK 8"

LOT1 CSM #337 V.2, P.204-205 DOC. #228208

FND ALUM. MONUMENT
County Coordinates
Y = 563615.928
X = 813232.763

FND PK NAIL
County Coordinates
Y = 563574.117
X = 810594.477

WEST 6TH STREET NORTH

VACATED WEST 5TH STREET SOUTH

VACATED ALLEY

GAS PUMPS

SECTION LINE

66.00'

60.00'

200.00'

20+32.27=
Y=563588.274
X=811487.775

21+01.80=
Y=563657.794
X=811486.931

331+68.32=
Y=563553.937
X=811365.825

336+58.59=
25+00.00
Y=563562.213
X=811856.030

337+16.69=
Y=563563.194
X=811914.125

1598.30'

332+00 | 333+00 | 334+00 | 335+00 | 336+00 | 337+00

SEE SHEET 4.01

SEE SHEET 4.03

R/L= N89°01'58"E

R/L= N0°41'41"W

R/L= N0°54'22"W

R/L= N0°56'14"W

PLE-10 S.F.
PLE271 PLE272 PLE273
PLE270

PLE-10 S.F.
PLE275 PLE276 PLE277
PLE274

TLE-92 S.F.
TLE254
TLE253

V.275, P.209
30' ACCESS EASEMENT
TLE255
TLE256

TLE-96 S.F.
TLE258
TLE257

PLE-31 S.F.
PLE279
PLE278

PLE280

40' LINE

TLE-15 S.F.
TLE252
TLE251
TLE250

PLE-10 S.F.
PLE271
PLE270

PLE272
PLE273

TLE-6 S.F.
TLE263
TLE262
TLE261

16.2'
16.7'

25.9'

12.1'

TLE-3 S.F.
TLE260
TLE259

17.9'

16.2'
20.9'

FEED STORE

LADYSMITH

FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER "BLOCK 9"

THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH "BLOCK 7"

THE LADYSMITH TOWNSITE CO'S FIRST ADDITION TO LADYSMITH "BLOCK 4"

NW-NW SEC-3

U.S.H. "8" (LAKE AVE WEST)

Potential Cut Zone

Kauffman

EZ Stop

City of Ladysmith

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
53-110	N 00°54'29" W	32.40'
110-200	N 89°05'31" E	84.36'
200-201	N 64°28'39" E	8.95'
201-202	N 00°57'18" W	65.77'
202-55	N 89°02'42" E	30.30'
55-203	N 89°02'42" E	29.70'
203-204	S 00°57'18" E	63.30'
204-205	S 45°54'29" E	8.84'
205-PLE270	N 89°05'31" E	48.29'
PLE270-PLE271	N 00°54'29" W	2.00'
PLE271-PLE272	N 89°05'31" E	5.00'
PLE272-PLE273	S 00°54'29" E	2.00'
PLE273-PLE274	N 89°05'31" E	166.55'
PLE274-PLE275	N 00°54'29" W	2.00'
PLE275-PLE276	N 89°05'31" E	5.00'
PLE276-PLE277	S 00°54'29" E	2.00'
PLE277-PLE278	N 89°05'31" E	156.07'
PLE278-PLE279	N 00°52'22" W	3.50'
PLE279-PLE280	N 89°05'31" E	8.80'
PLE280-206	S 00°22'26" W	3.50'
206-56	S 00°54'29" E	31.83'
56-207	S 00°54'29" E	34.17'
207-208	S 89°05'31" W	3.51'
208-209	S 66°02'08" W	28.74'
209-210	S 00°47'25" E	54.74'
210-57	S 89°12'35" W	27.98'
57-211	S 89°12'35" W	32.02'
211-212	N 00°47'25" W	65.88'
212-213	S 89°05'31" W	304.04'
213-214	S 44°05'31" W	5.02'

STATION & OFFSET TABLE TO WEST 6TH STREET		
POINT	STATION	OFFSET
200	20+32.13	38.12' LT
201	20+35.89	30.00' LT
202	21+01.66	30.30' LT
203	21+01.93	29.70' RT
204	20+38.63	29.99' RT
205	20+32.41	36.26' RT
213	19+66.27	32.05' RT
214	19+62.73	28.50' RT
215	18+99.28	28.28' RT
216	18+99.49	31.72' LT
217	19+66.27	31.49' LT
TLE252	20+34.15	33.76' LT
TLE261	19+65.27	31.49' LT

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
214-215	S 00°42'08" E	63.45'
215-58	S 89°17'52" W	28.28'
58-216	S 89°17'52" W	31.72'
216-217	N 00°42'08" W	66.79'
217-111	S 89°05'31" W	90.87'
111-53	N 00°54'29" W	33.60'

EXISTING MONUMENTS			
Point #	Y COORDS	X COORDS	DESCRIPTION
PROP818	563590.424	811517.655	1" IRON PIPE
PROP821	563525.723	811673.373	1" IRON PIPE

SCALE, FEET
0 20 40

GRID NORTH

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
110	331+68.35	32.40' LT	563586.333	811365.311
111	331+68.28	33.60' RT	563520.341	811366.357
200	332+52.71	32.31' LT	563587.670	811449.660
201	332+60.85	36.03' LT	563591.526	811457.736
202	332+60.86	101.80' LT	563657.289	811456.640
203	333+20.86	101.79' LT	563658.289	811516.632
204	333+20.85	38.49' LT	563594.996	811517.687
205	333+27.09	32.24' LT	563588.848	811524.032
206	337+16.73	31.83' LT	563595.023	811913.620
207	337+16.66	34.17' RT	563529.031	811914.666
208	337+13.14	34.16' RT	563528.975	811911.152
209	336+86.69	45.39' RT	563517.302	811884.890
210	336+86.52	100.14' RT	563462.563	811885.645
211	336+26.52	99.95' RT	563461.735	811825.651
212	336+26.72	34.07' RT	563527.606	811824.743
213	333+22.69	33.76' RT	563522.788	811520.746
214	333+19.14	37.30' RT	563519.184	811517.254

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
215	333+18.84	100.75' RT	563455.737	811518.032
216	332+58.84	100.48' RT	563455.002	811458.037
217	332+59.15	33.69' RT	563521.781	811457.238
PLE270	333+75.38	32.19' LT	563589.614	811572.313
PLE271	333+75.38	34.19' LT	563591.613	811572.281
PLE272	333+80.38	34.18' LT	563591.693	811577.281
PLE273	333+80.38	32.18' LT	563589.693	811577.312
PLE274	335+46.93	32.01' LT	563592.332	811743.844
PLE275	335+46.93	34.01' LT	563594.332	811743.813
PLE276	335+51.93	34.00' LT	563594.411	811748.812
PLE277	335+51.93	32.00' LT	563592.411	811748.844
PLE278	337+08.00	31.84' LT	563594.884	811904.894
PLE279	337+08.01	35.34' LT	563598.384	811904.841
PLE280	337+16.81	35.33' LT	563598.523	811913.643
TLE250	332+47.35	32.32' LT	563587.585	811444.303
TLE251	332+47.36	34.31' LT	563589.577	811444.274
TLE252	332+57.08	34.31' LT	563589.739	811453.994

STATION & OFFSET TABLE TO WEST 5TH STREET SOUTH		
POINT	STATION	OFFSET
209	24+54.62	28.12' RT
210	23+99.88	27.98' RT
211	24+00.03	32.02' LT
212	24+65.91	31.85' LT
TLE259	24+63.41	31.86' LT
TLE260	24+65.91	34.34' LT

NOTE: TLE AREAS ARE FOR SLOPE BLENDING

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE253	336+08.00	31.95' LT	563593.300	811804.907
TLE254	336+08.00	35.00' LT	563596.354	811804.855
TLE255	336+38.00	35.00' LT	563596.860	811834.851
TLE256	336+38.00	31.91' LT	563593.775	811834.903
TLE257	336+80.50	31.87' LT	563594.449	811877.397
TLE258	336+80.50	35.37' LT	563597.948	811877.342
TLE259	336+26.72	36.58' RT	563525.302	811824.777
TLE260	336+24.23	34.07' RT	563527.566	811822.247
TLE261	332+59.15	34.69' RT	563520.781	811457.230
TLE262	332+53.18	34.69' RT	563520.687	811451.260
TLE263	332+53.18	33.69' RT	563521.687	811451.245

QUEST
Civil Engineers, LLC

320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH
SIGNATURE: Kurtis L. Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------

PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

this plotted at 40'

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.03

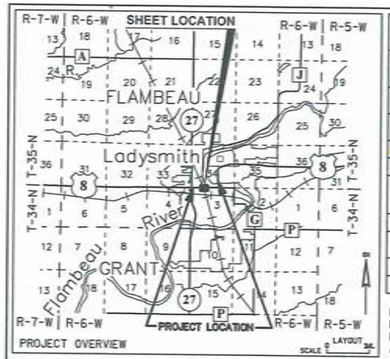
LOCATED IN PART OF LOTS 1, 4 & 5, BLOCK 9 TO FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER AND LOTS 3 AND 5, BLOCK 2 OF THE FLAMBEAU TOWN CO. ADDITION TO WARNER, LOCATED IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, AND LOCATED IN PART OF LOTS 1 & 12, BLOCK 8, OF FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER AND LOTS 1 AND 12, BLOCK 3 OF THE FLAMBEAU TOWN CO. ADDITION TO WARNER; LOCATED IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.03
AMENDMENT NO:____



SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH						
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F. REQUIRED	PLE S.F. REQUIRED	HE S.F. REQUIRED
			NEW	EXISTING	TOTAL			
22	Buchholz Feed Store, Inc.	FEE, TLE	324	-	324	125	-	-
30	Wisconsin Central Ltd	HE, TLE	-	-	-	16	-	426
31	Eugenol LLC	FEE, TLE	36	-	36	20	-	-
32	Toni A. Skogstad	FEE, PLE, TLE	236	-	236	53	45	-
33	Ladysmith Federal Savings & Loan Association	FEE, TLE	48	-	48	72	-	-
34	City of Ladysmith	TLE	-	-	-	6	-	-
35	MDP Properties, LLC	PLE	-	-	-	-	36	-
36	Stephanie N. Davis	PLE	-	-	-	-	10	-
37	James A. Cronick	PLE	-	-	-	-	10	-

NOTE: T.L.E.'S ARE REQUIRED FOR SLOPE BLENDING AND MAY EXTEND TO BUILDING FACES, BUILDINGS WILL NOT BE ADVERSELY AFFECTED.

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
133-126	N 89°05'31" E	2638.617'
133-206	N 89°05'31" E	1319.309'
300-304	N 89°05'31" E	112.430'
305-315	N 89°05'31" E	85.660'
PLE370-PLE373	N 89°05'31" E	35.470
PLE374-PLE377	N 89°05'31" E	5.000'
PLE378-PLE381	N 89°05'31" E	5.000'
126-316	S 89°05'31" W	724.479'

STATION & OFFSET TABLE TO WEST 5TH STREET (C.T.H. J)		
POINT	STATION	OFFSET
301	30+66.13	30.64' LT
302	31+24.41	30.12' LT
303	31+23.86	29.88' RT
304	30+22.13	28.96' RT
TLE350	30+24.29	28.98' RT

STATION & OFFSET TABLE TO WEST 4TH STREET		
POINT	STATION	OFFSET
306	35+33.19	30.91' LT
307	35+47.04	30.89' LT
308	35+47.05	28.93' LT
309	36+33.15	30.92' RT
310	35+74.25	31.02' RT
311	35+74.23	35.02' RT
312	35+40.72	35.08' RT
318	34+65.97	32.19' RT
319	34+42.14	32.47' RT
320	34+42.12	30.47' RT
321	33+96.95	31.00' RT
322	33+96.23	28.99' LT
323	34+65.20	29.81' LT
PROP824	36+33.04	29.09' LT
TLE356	35+44.85	35.07' RT
TLE361	34+42.21	35.34' RT
TLE362	34+61.86	29.77' LT

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER (S)	INTEREST REQUIRED
100	WISCONSIN GAS d/b/a WE ENERGIES	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	22	NO EASEMENT OF RECORD	-

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
PLE374	341+88.75	31.69' LT	563602.503	812385.638
PLE375	341+88.75	33.69' LT	563604.503	812385.606
PLE376	341+93.75	33.69' LT	563604.582	812390.605
PLE377	341+93.75	31.69' LT	563602.582	812390.639
PLE378	342+19.17	31.71' LT	563602.985	812416.056
PLE379	342+19.17	33.72' LT	563604.985	812416.025
PLE380	342+24.17	33.72' LT	563605.064	812421.024
PLE381	342+24.17	31.72' LT	563603.064	812421.056
PLE382	341+92.70	34.31' RT	563536.573	812390.588
PLE383	341+92.70	36.31' RT	563534.573	812390.620
PLE384	341+87.70	36.31' RT	563534.494	812385.621
PLE385	341+87.70	34.31' RT	563536.494	812385.589
PROP824	340+02.38	133.02' LT	563701.006	812197.758
TLE350	338+97.00	33.65' LT	563599.879	812093.839
TLE351	339+01.41	33.64' LT	563599.949	812098.244
TLE352	339+01.41	31.64' LT	563597.949	812098.276
TLE353	339+89.08	31.55' LT	563599.338	812185.941

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE354	339+89.08	33.05' LT	563600.838	812385.917
TLE355	340+00.15	33.05' LT	563601.014	812197.037
TLE356	340+66.60	44.88' LT	563613.847	812263.302
TLE357	340+76.77	35.27' LT	563604.392	812273.620
TLE358	340+85.56	35.26' LT	563604.520	812282.407
TLE359	340+85.56	31.61' LT	563600.868	812282.461
TLE360	340+66.50	34.40' RT	563534.573	812264.398
TLE361	340+66.23	58.20' RT	563510.775	812264.488
TLE362	340+01.35	37.79' RT	563530.204	812199.307
TLE363	339+97.82	34.46' RT	563533.485	812195.727
TLE364	338+20.61	34.27' RT	563530.678	812018.608
TLE365	338+08.51	46.51' RT	563518.184	812006.713
TLE366	337+83.75	47.56' RT	563516.775	81198L969
TLE367	337+70.63	34.22' RT	563529.886	811968.635

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
56-206	N 00°54'29" W	31.83'
206-300	N 89°05'31" E	68.67'
300-301	N 65°54'15" E	43.95'
301-302	N 23°38'51" W	58.28'
302-59	N 66°41'09" E	30.12'
59-303	N 66°41'09" E	29.88'
303-304	S 23°38'51" E	101.74'
304-305	N 89°05'31" E	96.64'
305-306	N 74°27'02" E	6.43'
306-307	N 00°50'57" W	13.85'
307-308	N 88°59'30" E	1.96'
308-PROP824	N 01°00'30" W	85.99'
PROP824-60	N 88°59'30" E	29.09'
60-309	N 88°59'30" E	30.91'
309-310	S 01°00'30" E	58.50'
310-311	N 89°23'51" E	4.00'
311-312	S 01°00'30" E	33.51'
312-313	S 47°29'54" E	7.97'
313-314	N 89°09'37" E	7.67'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
314-315	S 00°54'29" E	3.66'
315-PLE370	N 89°05'31" E	15.06'
PLE370-PLE371	N 00°54'29" W	2.00'
PLE371-PLE372	N 89°05'31" E	35.47'
PLE372-PLE373	S 00°54'29" E	2.00'
PLE373-PLE374	N 89°05'31" E	58.15'
PLE374-PLE375	N 00°54'29" W	2.00'
PLE375-PLE376	N 89°05'31" E	5.00'
PLE376-PLE377	S 00°57'13" E	2.00'
PLE377-PLE378	N 89°05'31" E	25.42'
PLE378-PLE379	N 00°54'29" W	2.00'
PLE379-PLE380	N 89°05'31" E	5.00'
PLE380-PLE381	S 00°54'29" E	2.00'
PLE381-316	N 89°05'31" E	87.33'
316-61	S 00°54'29" E	31.78'
61-317	S 00°54'29" E	34.22'
317-PLE382	S 89°05'31" W	118.85'
PLE382-PLE383	S 00°54'29" E	2.00'
PLE383-PLE384	S 89°05'31" W	5.00'
PLE384-PLE385	N 00°54'29" W	2.00'
PLE385-318	S 89°05'31" W	124.36'
318-319	S 00°52'49" E	23.82'
319-320	S 89°07'11" W	2.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
320-321	S 00°52'49" E	45.18'
321-62	S 89°07'11" W	31.01'
62-322	S 89°07'11" W	28.99'
322-323	N 00°52'49" W	68.97'
323-324	S 89°05'31" W	183.48'
324-325	S 43°35'29" W	14.45'
325-326	S 89°03'14" W	22.67'
326-327	N 45°29'01" W	14.49'
327-207	S 89°05'31" W	58.15'
207-56	N 00°54'29" W	34.17'

EXISTING MONUMENTS			
Point #	Y COORDS	Y COORDS	DESCRIPTION
PROP822	563595.835	811964.913	1" IRON PIPE
PROP824	563701.006	812197.758	RAIL ROAD SPIKE
PROP826	563604.375	812406.611	1" IRON PIPE

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE WEST)	FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER	-	1/24	1902
USH 8 (LAKE AVE WEST)	THE FLAMBEAU TOWN CO. ADDITION TO WARNER	-	1/23	1902
WEST 5TH STREET NORTH (CTH J)	FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER	-	1/24	1902
WEST 4TH STREET	THE FLAMBEAU TOWN CO. ADDITION TO WARNER	-	1/23	1902
WEST 4TH STREET	FLAMBEAU TOWN COMPANY'S 2ND ADDITION TO THE VILLAGE OF WARNER	-	1/24	1902

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
206	337+16.73	31.83' LT	563595.023	811913.620
207	337+16.66	34.17' RT	563529.031	811914.666
300	337+85.39	31.76' LT	563596.111	811982.279
301	338+25.81	49.02' LT	563614.053	812022.397
302	338+03.65	102.93' LT	563667.577	811999.330
303	338+59.14	125.74' LT	563691.323	812054.431
304	338+97.83	31.65' LT	563597.892	812094.696
305	339+94.46	31.55' LT	563599.424	812191.320
306	340+00.63	33.17' LT	563601.147	812197.515
307	340+00.63	47.02' LT	563614.994	812197.330
308	340+02.59	47.03' LT	563615.029	812199.271
309	340+62.37	133.17' LT	563702.062	812257.749
310	340+62.52	74.27' LT	563643.173	812258.785
311	340+66.52	74.25' LT	563643.215	812262.785
312	340+66.61	40.74' LT	563609.711	812263.375
313	340+72.40	35.27' LT	563604.328	812269.250
314	340+80.07	35.27' LT	563604.440	812276.914

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
315	340+80.07	31.61' LT	563600.781	812276.972
316	343+11.50	31.78' LT	563604.448	812508.375
317	343+11.55	34.22' RT	563538.456	812509.421
318	340+63.35	34.41' RT	563534.523	812261.248
319	340+63.35	58.23' RT	563510.702	812261.614
320	340+61.35	58.23' RT	563510.672	812259.615
321	340+61.37	103.42' RT	563465.500	812260.309
322	340+01.37	103.42' RT	563464.578	812200.316
323	340+01.35	34.45' RT	563533.541	812199.256
324	338+17.81	34.27' RT	563530.634	812015.805
325	338+07.67	44.57' RT	563520.169	812005.843
326	337+85.00	44.56' RT	563519.795	811983.176
327	337+74.85	34.23' RT	563529.953	811972.846
PLE370	340+95.13	31.62' LT	563601.020	812292.028
PLE371	340+95.12	33.62' LT	563603.019	812291.997
PLE372	341+30.60	33.65' LT	563603.581	812327.467
PLE373	341+30.60	31.65' LT	563601.582	812327.498

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Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH
SIGNATURE: Kurtis L. Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------

PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

QUEST
Civil Engineers, LLC

320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN — KOLBY F. SCHERTZ S-2862 SEYMOUR WI — LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH

SIGNATURE: Kurtis L. Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH					
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F. REQUIRED	PLE S.F. REQUIRED
40	Patrick J. & Charissa Morgan	FEE, TLE	67	-	67	19	-
41	Manley B. & Hilary A. Peterson	FEE, TLE, PLE	64	-	64	34	10
42	Philip & Cheryl Kaiser	FEE, TLE	10	-	10	12	-
44	J AND L Land Company, LLC	FEE, TLE	5	-	5	94	-
45	Rocki Top Auto, LLC	TLE	-	-	-	42	-
46	Ladysmith Baptist Church	FEE	55	-	55	-	-
47	Tami L. Kraft	FEE, TLE	39	-	39	125	-
48	Terry R. Frohn	PLE	-	-	-	-	13

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.04

LOCATED IN PART OF LOT 1, BLOCK 2 OF THE FLAMBEAU CO. ADDITION TO WARNER AND LOTS 1 AND 4, BLOCK 4, AND LOT 4, BLOCK 3 TO THE PLAT OF FLAMBEAU FALLS; ALL LOCATED IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, AND PART OF LOT 1, BLOCK 3, AND LOTS 1 AND 12, BLOCK 4 TO THE FLAMBEAU CO. ADDITION TO WARNER; LOCATED IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.04
AMENDMENT NO:....

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
133-126	N 89°05'31" E	2638.617'
133-316	N 89°05'31" E	1914.138'
400-405	N 89°05'31" E	88.557'
PLE480-PLE483	N 89°05'31" E	5.000'
PLE484-PLE487	N 89°05'31" E	6.498'
406-412	N 89°05'31" E	72.301'
126-413	S 89°05'31" W	149.357'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
61-316	N 00°54'29" W	31.78'
316-400	N 89°05'31" E	18.93'
400-401	N 42°38'06" E	16.33'
401-402	N 00°53'56" W	57.66'
402-63	N 89°06'04" E	32.87'
63-403	N 89°06'04" E	33.13'
403-404	S 00°53'56" E	58.18'
404-405	S 45°54'01" E	16.00'
405-PLE480	N 89°05'31" E	37.54'
PLE480-PLE481	N 00°54'29" W	2.00'
PLE481-PLE482	N 89°05'31" E	5.00'
PLE482-PLE483	S 00°54'29" E	2.00'
PLE483-PLE484	N 89°05'31" E	63.13'
PLE484-PLE485	N 00°54'29" W	2.00'
PLE485-PLE486	N 89°05'31" E	6.50'
PLE486-PLE487	S 00°55'25" E	2.00'
PLE487-406	N 89°05'31" E	133.17'
406-407	N 71°34'07" E	5.56'
407-408	N 00°48'53" W	4.33'
408-409	N 89°11'07" E	1.00'
409-410	N 00°48'53" W	62.50'

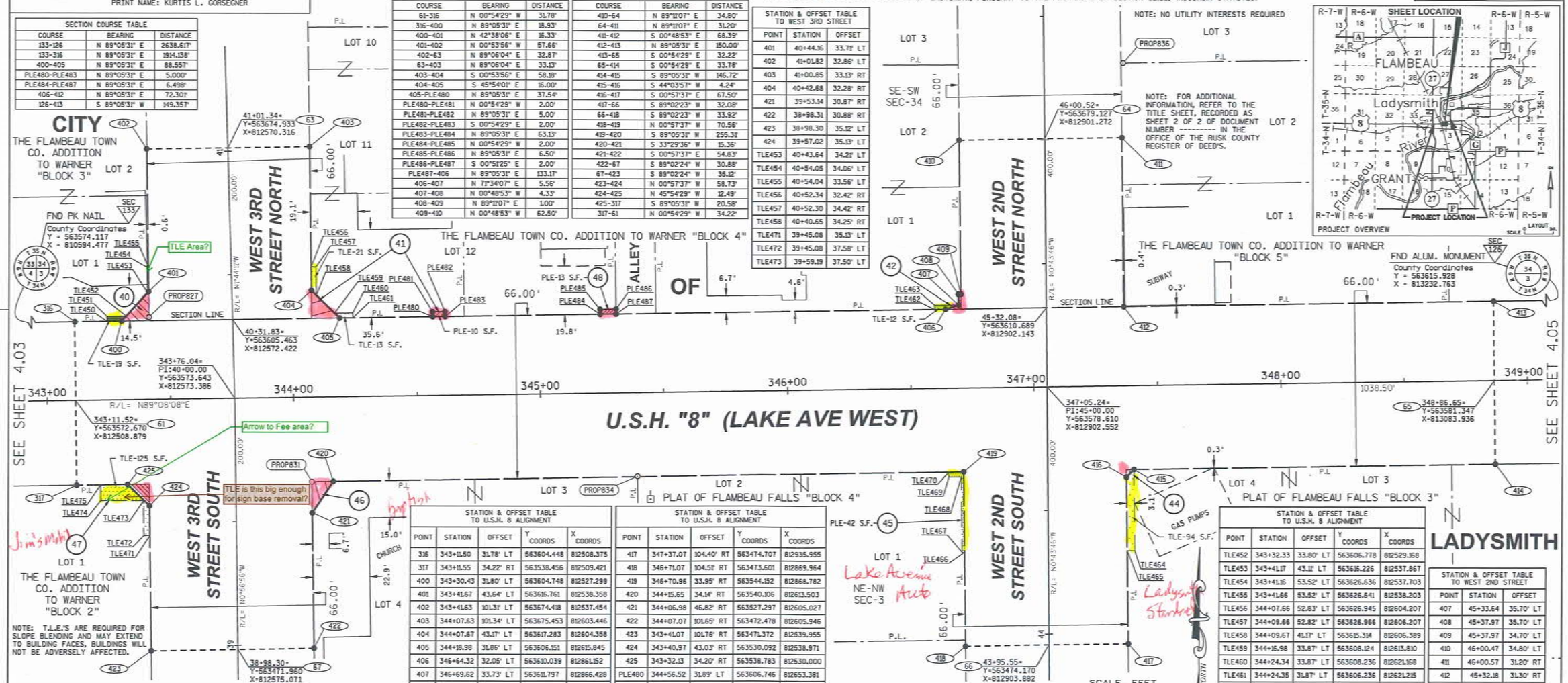
R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
410-64	N 89°11'07" E	34.80'
64-411	N 89°11'07" E	31.20'
411-412	S 00°48'53" E	68.39'
412-413	N 89°05'31" E	150.00'
413-65	S 00°54'29" E	32.22'
65-414	S 00°54'29" E	33.78'
414-415	S 44°03'57" W	4.24'
415-416	S 00°57'37" E	67.50'
416-417	S 89°02'23" W	32.08'
66-418	S 89°02'23" W	33.92'
418-419	N 00°57'37" W	70.56'
419-420	S 89°05'31" W	255.31'
420-421	S 33°29'36" W	15.36'
421-422	S 00°57'37" E	54.83'
422-67	S 89°02'24" W	30.88'
67-423	S 89°02'24" W	35.12'
423-424	N 00°57'37" W	58.73'
424-425	N 45°54'29" W	12.49'
425-317	S 89°05'31" W	20.58'
317-61	N 00°54'29" W	34.22'

STATION & OFFSET TABLE TO WEST 3RD STREET		
POINT	STATION	OFFSET
401	40+44.16	33.71' LT
402	41+01.82	32.86' LT
403	41+00.85	33.13' RT
404	40+42.68	32.28' RT
421	39+53.14	30.87' RT
422	38+98.31	30.88' RT
423	38+98.30	35.12' LT
424	39+57.02	35.13' LT
TLE453	40+43.64	34.21' LT
TLE454	40+54.05	34.06' LT
TLE455	40+54.04	33.56' LT
TLE456	40+52.34	32.42' RT
TLE457	40+52.30	34.42' RT
TLE458	40+40.65	34.25' RT
TLE471	39+45.08	35.13' LT
TLE472	39+45.08	37.58' LT
TLE473	39+59.19	37.50' LT

NOTE: NO UTILITY INTERESTS REQUIRED

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER ---------- IN THE OFFICE OF THE RUSK COUNTY REGISTER OF DEED'S.

SHEET LOCATION



STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
316	343+11.50	31.78' LT	563604.448	812508.375
317	343+11.55	34.22' RT	563538.456	812509.421
400	343+30.43	31.80' LT	563604.748	812527.299
401	343+41.67	43.64' LT	563616.761	812538.358
402	343+41.63	101.31' LT	563674.418	812537.454
403	344+07.63	101.34' LT	563675.453	812603.446
404	344+07.67	43.17' LT	563617.283	812604.358
405	344+18.98	31.86' LT	563606.151	812615.845
406	346+64.32	32.05' LT	563610.039	812861.152
407	346+69.62	33.73' LT	563611.797	812866.428
408	346+69.63	38.06' LT	563616.124	812866.367
409	346+70.63	38.05' LT	563616.138	812867.367
410	346+70.68	100.55' LT	563678.632	812866.478
411	347+36.68	100.50' LT	563679.570	812932.471
412	347+36.62	32.10' LT	563611.185	812933.444
413	348+86.62	32.22' LT	563613.561	813083.425
414	348+86.67	33.78' RT	563547.570	813084.471
415	347+39.96	33.89' RT	563545.245	812937.773
416	347+36.96	36.90' RT	563542.198	812934.824

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
417	347+37.07	104.40' RT	563474.707	812935.955
418	346+71.07	104.51' RT	563473.601	812869.964
419	346+70.96	33.95' RT	563544.152	812868.782
420	344+15.65	34.14' RT	563540.106	812613.503
421	344+06.98	46.82' RT	563527.297	812605.027
422	344+07.07	101.65' RT	563472.478	812605.946
423	343+41.07	101.76' RT	563471.372	812539.955
424	343+40.97	43.03' RT	563530.092	812538.971
425	343+32.13	34.20' RT	563538.783	812530.000
PLE480	344+56.52	31.89' LT	563606.746	812653.381
PLE481	344+56.52	33.89' LT	563608.746	812653.350
PLE482	344+61.52	33.90' LT	563608.825	812658.349
PLE483	344+61.52	31.90' LT	563606.825	812658.381
PLE484	345+24.65	31.94' LT	563607.826	812721.498
PLE485	345+24.65	33.94' LT	563609.825	812721.465
PLE486	345+31.15	33.95' LT	563609.928	812727.965
PLE487	345+31.15	31.95' LT	563607.929	812727.995
TLE450	343+24.59	31.79' LT	563604.656	812521.460
TLE451	343+24.58	33.79' LT	563606.655	812521.428

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE471	343+40.99	54.97' RT	563518.149	812539.171
TLE472	343+38.54	54.98' RT	563518.108	812536.724
TLE473	343+38.60	40.87' RT	563532.213	812536.569
TLE474	343+21.25	40.65' RT	563532.174	812519.215
TLE475	343+21.24	34.21' RT	563538.610	812519.114

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
TLE452	343+32.33	33.80' LT	563606.778	812529.168
TLE453	343+41.17	43.11' LT	563615.226	812537.867
TLE454	343+41.16	53.52' LT	563626.636	812537.703
TLE455	343+41.66	53.52' LT	563626.641	812538.203
TLE456	344+07.66	52.83' LT	563626.945	812604.207
TLE457	344+09.66	52.82' LT	563626.966	812606.207
TLE458	344+09.67	41.11' LT	563615.314	812606.389
TLE459	344+16.98	33.87' LT	563608.124	812613.810
TLE460	344+24.34	33.87' LT	563608.236	812621.168
TLE461	344+24.35	31.87' LT	563606.236	812621.215
TLE462	346+59.99	32.05' LT	563609.970	812856.823
TLE463	346+59.99	33.72' LT	563611.645	812856.796
TLE464	347+40.01	66.66' RT	563512.487	812938.322
TLE465	347+37.01	66.66' RT	563512.437	812935.322
TLE466	346+71.01	66.38' RT	563511.725	812869.325
TLE467	346+70.01	66.38' RT	563511.708	812868.325
TLE468	346+69.96	35.95' RT	563542.136	812867.815
TLE469	346+64.96	35.95' RT	563542.057	812862.816
TLE470	346+64.96	33.95' RT	563544.056	812862.782

STATION & OFFSET TABLE TO WEST 2ND STREET		
POINT	STATION	OFFSET
407	45+33.64	35.70' LT
408	45+37.97	35.70' LT
409	45+37.97	34.70' LT
410	46+00.47	34.80' LT
411	46+00.57	31.20' RT
412	45+32.18	31.30' RT
416	44+63.18	31.81' RT
417	43+95.68	32.08' RT
418	43+95.41	33.92' LT
419	44+65.97	34.21' LT
TLE464	44+33.43	34.93' RT
TLE465	44+33.41	31.93' RT
TLE466	44+33.54	34.08' LT
TLE467	44+33.54	35.08' LT
TLE468	44+63.97	35.20' LT

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE WEST)	PLAT OF FLAMBEAU FALLS	-	1/14	1902
USH 8 (LAKE AVE WEST)	THE FLAMBEAU TOWN CO. ADDITION TO WARNER	-	1/23	1902
WEST 3RD STREET SOUTH	PLAT OF FLAMBEAU FALLS	-	1/14	1902
WEST 3RD STREET SOUTH & NORTH	THE FLAMBEAU TOWN CO. ADDITION TO WARNER	-	1/23	1902
WEST 2ND STREET SOUTH	PLAT OF FLAMBEAU FALLS	-	1/14	1902
WEST 2ND STREET NORTH	THE FLAMBEAU TOWN CO. ADDITION TO WARNER	-	1/23	1902

EXISTING MONUMENTS			
Point #	Y COORDS	X COORDS	DESCRIPTION
PROP827	563606.362	812538.508	2" IRON PIPE
PROP831	563539.914	812604.821	PK NAIL
PROP834	563542.249	812736.783	SURVEY NAIL
PROP836	563709.801	812932.883	MAG NAIL

SCALE, FEET
0 20 40

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\W0*16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.05

LOCATED IN PART OF LOT 4, BLOCK 1 AND LOTS 1 AND 4, BLOCK 2 OF PLAT OF FLAMBEAU FALLS LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, PART OF LOTS 35, 36, 37 AND 39, BLOCK 20 OF MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS. LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4, AND PART OF LOTS 1 AND 2 OF CSM #542 LOCATED IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

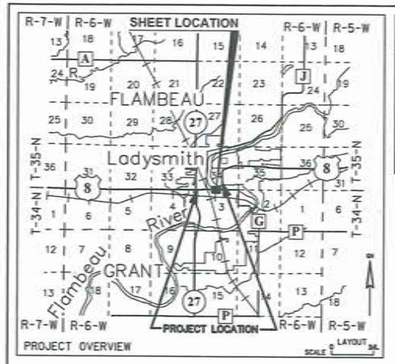
RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER ---------- IN THE OFFICE OF THE RUSK COUNTY REGISTER OF DEED'S.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.05
AMENDMENT NO:____

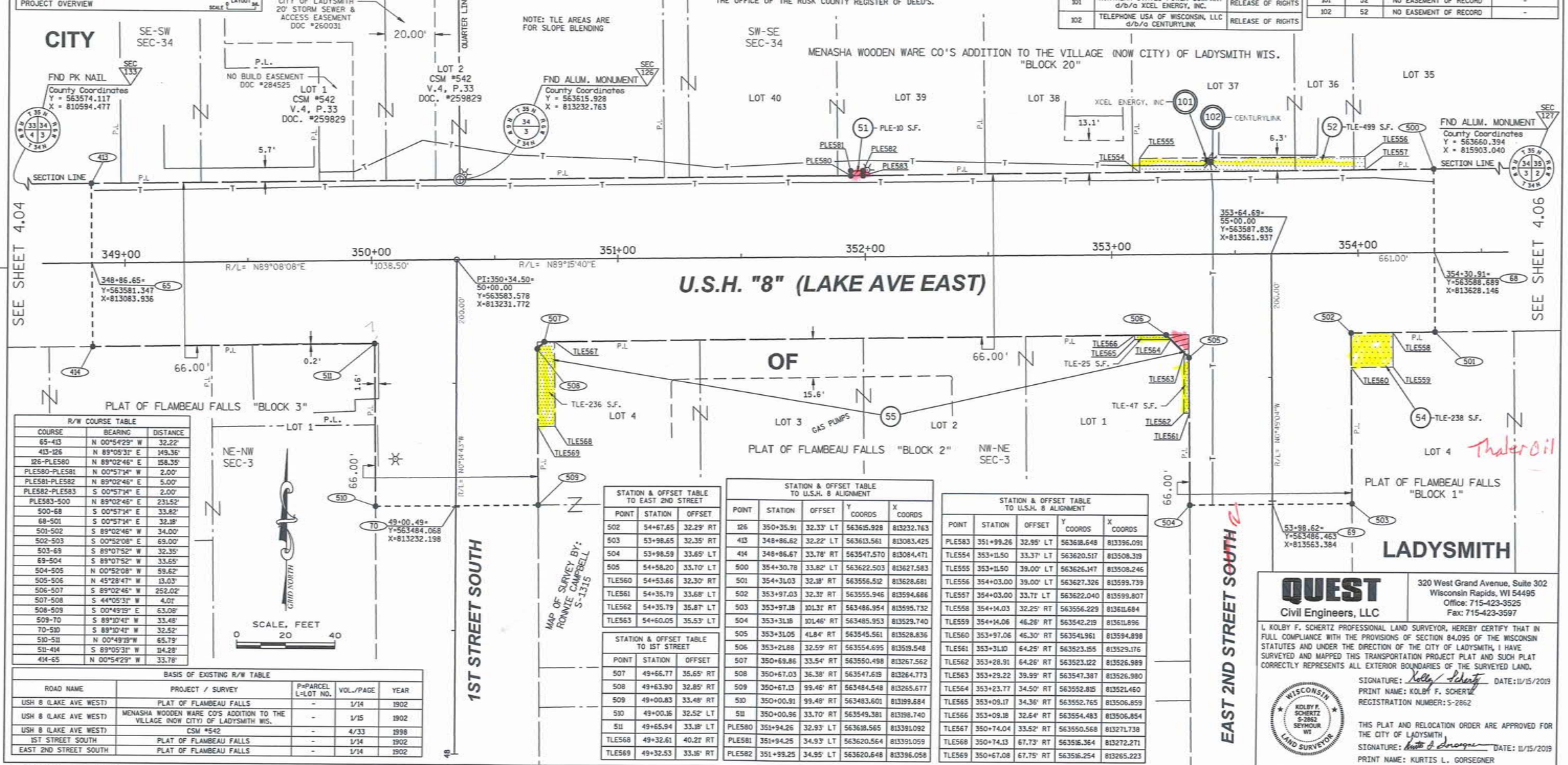


SCHEDULE OF LANDS AND INTERESTS REQUIRED			OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F. REQUIRED	PLE S.F. REQUIRED
			NEW	EXISTING	TOTAL		
51	Congregational Church of Christ	PLE	-	-	-	-	10
52	Schindler Enterprises, Inc.	TLE	-	-	-	499	-
54	City of Ladysmith	TLE	-	-	-	238	-
55	Krist Oil Company	FEE, TLE	47	-	47	308	-

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
133-126	N 89°05'31" E	2638.617'
126-127	N 89°02'46" E	2670.647'
PE580-PLE583	N 89°02'46" E	5.000'
126-128	N 00°44'14" W	5323.537'
133-413	N 89°05'31" E	2489.261'
127-500	S 89°02'46" W	2275.773'

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY, INC.	RELEASE OF RIGHTS
102	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
101	52	NO EASEMENT OF RECORD	-
102	52	NO EASEMENT OF RECORD	-



R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
65-413	N 00°54'29" W	32.22'
413-126	N 89°05'31" E	149.36'
126-PLE580	N 89°02'46" E	158.35'
PLE580-PLE581	N 00°57'14" W	2.00'
PLE581-PLE582	N 89°02'46" E	5.00'
PLE582-PLE583	S 00°57'14" E	2.00'
PLE583-500	N 89°02'46" E	231.52'
500-68	S 00°57'14" E	33.82'
68-501	S 00°57'14" E	32.18'
501-502	S 89°02'46" W	34.00'
502-503	S 00°52'08" E	69.00'
503-69	S 89°07'52" W	32.35'
69-504	S 89°07'52" W	33.65'
504-505	N 00°52'08" W	59.62'
505-506	N 45°28'47" W	13.03'
506-507	S 89°02'46" W	252.02'
507-508	S 44°05'31" W	4.01'
508-509	S 00°49'19" E	63.08'
509-70	S 89°10'41" W	33.48'
70-510	S 89°10'41" W	32.52'
510-511	N 00°49'19"W	65.79'
511-414	S 89°05'31" W	114.28'
414-65	N 00°54'29" W	33.78'

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE WEST)	PLAT OF FLAMBEAU FALLS	-	1/14	1902
USH 8 (LAKE AVE WEST)	MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS.	-	1/15	1902
USH 8 (LAKE AVE WEST)	CSM #542	-	4/33	1998
1ST STREET SOUTH	PLAT OF FLAMBEAU FALLS	-	1/14	1902
EAST 2ND STREET SOUTH	PLAT OF FLAMBEAU FALLS	-	1/14	1902

STATION & OFFSET TABLE TO EAST 2ND STREET		
POINT	STATION	OFFSET
502	54+67.65	32.29' RT
503	53+98.65	32.35' RT
504	53+98.59	33.65' LT
505	54+58.20	33.70' LT
TLE560	54+53.66	32.30' RT
TLE561	54+35.79	33.68' LT
TLE562	54+35.79	35.87' LT
TLE563	54+60.05	35.53' LT

STATION & OFFSET TABLE TO 1ST STREET		
POINT	STATION	OFFSET
507	49+66.77	35.65' RT
508	49+63.90	32.85' RT
509	49+00.83	33.48' RT
510	49+00.16	32.52' LT
511	49+65.94	33.18' LT
TLE568	49+32.61	40.21' RT
TLE569	49+32.53	33.16' RT

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
126	350+35.91	32.33' LT	563615.928	813232.763
413	348+86.62	32.22' LT	563613.561	813083.425
414	348+86.67	33.78' RT	563547.570	813084.471
500	354+30.78	33.82' LT	563622.503	813627.583
501	354+31.03	32.18' RT	563556.512	813628.681
502	353+97.03	32.31' RT	563555.946	813594.686
503	353+97.18	101.31' RT	563486.954	813595.732
504	353+31.18	101.46' RT	563485.953	813529.740
505	353+31.05	41.84' RT	563545.561	813528.836
506	353+21.88	32.59' RT	563554.695	813519.548
507	350+69.86	33.54' RT	563550.498	813267.562
508	350+67.03	36.38' RT	563547.619	813264.773
509	350+67.13	99.46' RT	563484.548	813265.677
510	350+00.91	99.48' RT	563483.601	813199.684
511	350+00.96	33.70' RT	563549.381	813198.740
PLE580	351+94.26	32.93' LT	563618.565	813391.092
PLE581	351+94.25	34.93' LT	563620.564	813391.059
PLE582	351+93.25	34.95' LT	563620.648	813396.058

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
PLE583	351+99.26	32.95' LT	563618.648	813396.091
TLE554	353+11.50	33.37' LT	563620.517	813508.319
TLE555	353+11.50	39.00' LT	563626.147	813508.246
TLE556	354+03.00	39.00' LT	563627.326	813599.739
TLE557	354+03.00	33.71' LT	563622.040	813599.807
TLE558	354+14.03	32.25' RT	563556.229	813611.684
TLE559	354+14.06	46.26' RT	563542.219	813611.896
TLE560	353+97.06	46.30' RT	563541.961	813594.898
TLE561	353+31.10	64.25' RT	563523.155	813529.176
TLE562	353+28.91	64.26' RT	563523.122	813526.989
TLE563	353+29.22	39.99' RT	563547.387	813526.980
TLE564	353+23.77	34.50' RT	563552.815	813521.460
TLE565	353+09.17	34.36' RT	563552.765	813506.859
TLE566	353+09.18	32.64' RT	563554.483	813506.854
TLE567	350+74.04	33.52' RT	563550.568	813271.738
TLE568	350+74.13	67.73' RT	563516.364	813272.271
TLE569	350+67.08	67.75' RT	563516.254	813265.223

QUEST
Civil Engineers, LLC
320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH
SIGNATURE: Kurtis L Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

TRANSPORTATION PROJECT PLAT NO: 1580-31-20 - 4.06

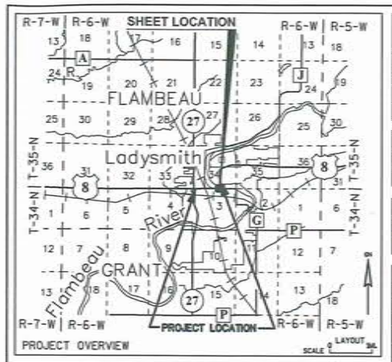
LOCATED IN PART OF LOT 5, BLOCK 6 OF MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS. AND LOT 1, BLOCK 1 OF PLAT OF FLAMBEAU FALLS ALL LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 34 NORTH, RANGE 6 WEST, AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 34, TOWNSHIP 35 NORTH, RANGE 6 WEST; ALL LOCATED IN THE CITY OF LADYSMITH, RUSK COUNTY, WISCONSIN

RELOCATION ORDER USH 8 CITY OF LADYSMITH, LAKE AVE & EAST 3RD STREET (STH 27 - RIVER AVE) RUSK COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF LADYSMITH DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF LADYSMITH HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY OF LADYSMITH FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF LADYSMITH, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1580-31-20 - 4.06
AMENDMENT NO:---



SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY OF LADYSMITH				
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F. REQUIRED
			NEW	EXISTING	TOTAL	
54	City of Ladysmith	TLE	-	-	-	292
60	Gates County, Wisconsin	FEE, TLE	12	-	12	19

UTILITY EASEMENT TABLE			
UTILITY *	PARCEL *	INTEREST DESCRIPTION	RECORDING DATA
100	54	NO EASEMENT OF RECORD	-

UTILITY INTERESTS REQUIRED			
UTILITY *	OWNER(S)	INTEREST REQUIRED	
100	WISCONSIN GAS d/b/a WE ENERGIES	RELEASE OF RIGHTS	

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
126-127	N 89°02'46" E	2670.647'
126-500	N 89°02'46" E	394.874
600-604	N 89°02'46" E	187.000'
127-PROP843	S 89°02'46" W	1846.524

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
68-500	N 00°57'14 W	33.82'
500-600	N 89°02'46" E	146.24'
600-601	N 45°36'42" E	26.18'
601-602	N 00°55'02" W	118.77'
602-71	N 89°04'58" E	94.16'
71-603	N 89°04'58" E	73.84'
603-604	S 00°55'02" E	136.66'
604-PROP843	N 89°02'46" E	96.01'
PROP843-72	S 00°57'14" E	35.39'
72-605	S 00°57'14" E	30.61'
605-606	S 89°02'46" W	128.38'
606-607	S 44°40'55" W	6.82'
607-608	S 00°52'08" E	66.73'
608-73	S 89°07'52" W	32.17'
73-609	S 89°07'52" W	33.83'
609-610	N 00°52'08" W	71.40'
610-501	S 89°02'46" W	230.00'
501-68	N 00°57'14 W	32.18'

STATION & OFFSET TABLE TO U.S.H. 8 ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
500	354+30.78	33.82' LT	563622.503	813627.583
501	354+31.03	32.18' RT	563556.512	813628.681
600	355+77.02	34.37' LT	563624.938	813773.805
601	355+95.96	52.44' LT	563643.252	813792.514
602	358+05.71	94.16' LT	563762.004	813790.613
603	358+00.60	73.82' RT	563764.693	813958.592
604	356+64.00	69.65' RT	563628.051	813960.779
609	356+61.19	102.72' RT	563488.948	813859.732
610	356+61.03	31.32' RT	563560.341	813858.650
PROP843	356+61.14	165.62' RT	563629.650	814056.772
PROP844	356+59.04	231.46' RT	563630.607	814122.643
TLE653	356+61.08	54.35' RT	563537.299	813858.999
TLE654	356+35.65	31.41' RT	563559.919	813833.274

STATION & OFFSET TABLE TO CTH G				
POINT	STATION	OFFSET	Y COORDS	X COORDS
604	65+68.52	35.07' LT	563628.051	813960.779
605	66+64.63	30.61' RT	563563.659	814057.871
606	65+36.39	31.05' RT	563561.521	813929.507
PROP843	66+64.68	35.39' LT	563629.650	814056.772
PROP844	67+30.56	35.20' LT	563630.607	814122.643
TLE650	65+51.84	30.99' RT	563561.779	813944.955
TLE651	65+51.84	32.20' RT	563560.569	813944.975
TLE652	65+35.24	32.38' RT	563560.376	813928.374

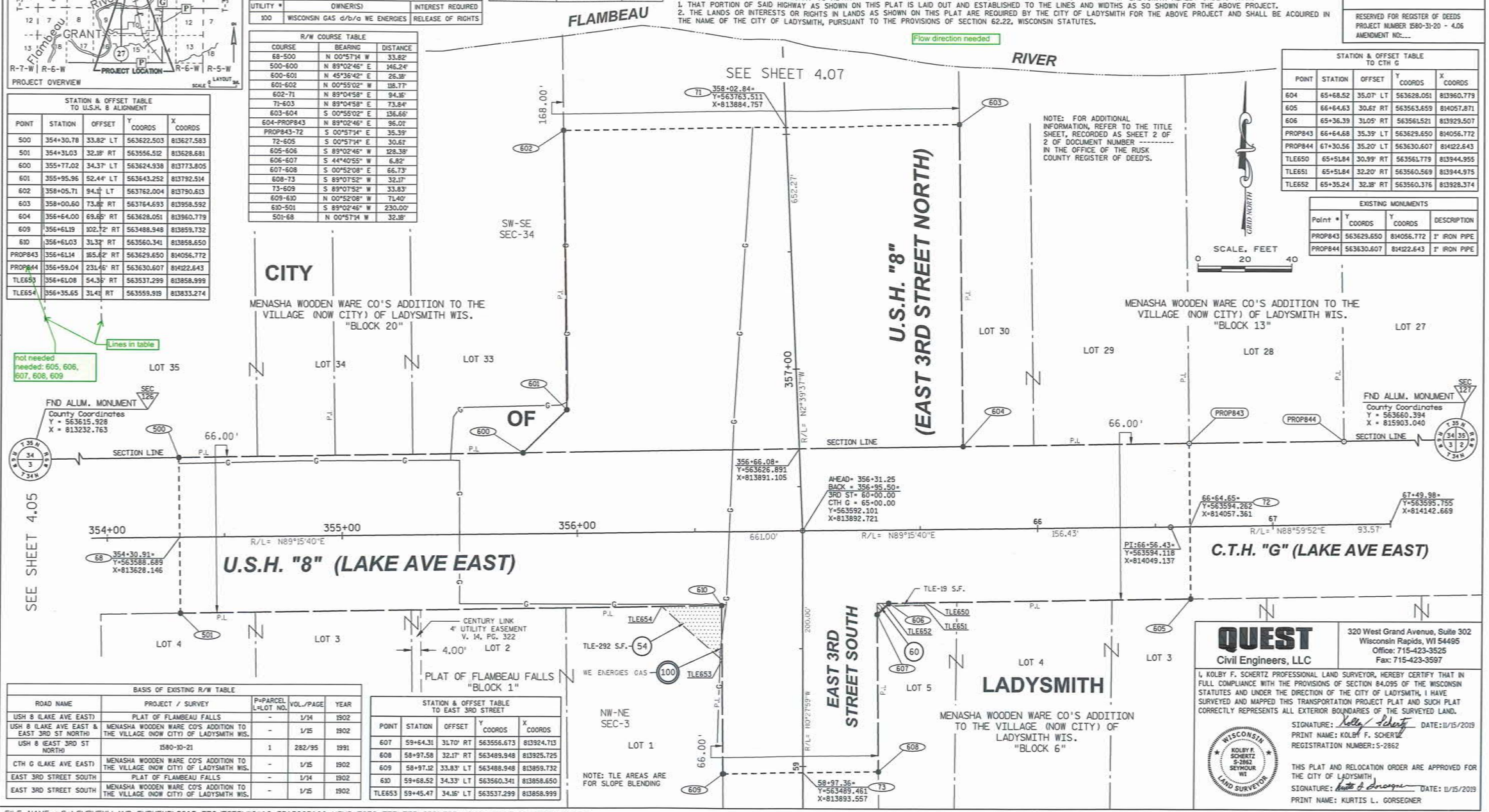
EXISTING MONUMENTS			
Point *	Y COORDS	X COORDS	DESCRIPTION
PROP843	563629.650	814056.772	1" IRON PIPE
PROP844	563630.607	814122.643	1" IRON PIPE

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
USH 8 (LAKE AVE EAST)	PLAT OF FLAMBEAU FALLS	-	1/14	1902
USH 8 (LAKE AVE EAST & EAST 3RD ST NORTH)	MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS.	-	1/15	1902
USH 8 (EAST 3RD ST NORTH)	1580-10-21	1	282/95	1991
CTH G (LAKE AVE EAST)	MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS.	-	1/15	1902
EAST 3RD STREET SOUTH	PLAT OF FLAMBEAU FALLS	-	1/14	1902
EAST 3RD STREET SOUTH	MENASHA WOODEN WARE CO'S ADDITION TO THE VILLAGE (NOW CITY) OF LADYSMITH WIS.	-	1/15	1902

STATION & OFFSET TABLE TO EAST 3RD STREET				
POINT	STATION	OFFSET	Y COORDS	X COORDS
607	59+64.31	31.70' RT	563556.673	813924.713
608	58+97.58	32.17' RT	563489.948	813925.725
609	58+97.12	33.83' LT	563488.948	813859.732
610	59+68.52	34.33' LT	563560.341	813858.650
TLE653	59+45.47	34.16' LT	563537.299	813858.999

NOTE: TLE AREAS ARE FOR SLOPE BLENDING

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER --------- IN THE OFFICE OF THE RUSK COUNTY REGISTER OF DEED'S.



QUEST
Civil Engineers, LLC
320 West Grand Avenue, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

I, KOLBY F. SCHERTZ PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF LADYSMITH, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kolby Schertz DATE: 11/15/2019
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF LADYSMITH

SIGNATURE: Kurtis L. Gorsegner DATE: 11/15/2019
PRINT NAME: KURTIS L. GORSEGNER

FILE NAME : S:\SURVEY\LAND SURVEYS\2015 PROJECTS\WO#16 ID15803100_USH8_TOPO-TPP\TPP\C3D\TPP_USH8_15803120_C3D2018.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : November 15, 2019 PLOT BY : KOLBY SCHERTZ PLOT NAME : USH 8 PLOT SCALE : 1" = 20'

Appendix B: Background Information

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2501 Golf Course Rd.
Ashland WI 54806

Scott Walker, Governor
Daniel L. Meyer, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

August 16, 2018

LYNDALE TERMINAL COMPANY
ATTN: CAMIE PEDERSON
4567 AMERICAN BLVD W
BLOOMINGTON MN 55437

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Holiday Station Store #176, 605 Lake Avenue West, Ladysmith, Wisconsin
DNR BRRTS Activity #03-55-000446
FID #855049030

Dear Ms. Pederson:

The Department of Natural Resources (DNR) considers the Holiday Station Store #176 site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you. Certain continuing obligations also apply to affected property owners or rights-of-way holders. These are identified within each continuing obligation.

This final closure decision is based on the correspondence and data provided and is issued under Wis. Adm. Code §§ NR 726 and 727. The DNR's Northern Region Closure Committee reviewed the request for closure on January 10, 2018. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on January 19, 2018, and documentation that the conditions in that letter were met was received on April 27, 2018. Revised notifications to affected property owners were sent on June 1, 2018, and a final determination on closure was made after the required 30-day comment period passed.

The site is currently an operating retail gas station. Soil contamination was discovered in 1995 during the removal of the former underground tank system. Remedial actions included a 1,600-ton excavation of contamination soils, installation of a passive soil vent system and soil vapor extraction system. Remaining soil and groundwater contamination will be addressed through natural attenuation. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present at or above Wis. Adm. Code § NR 140, enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.

- If a structural impediment that obstructed a complete site investigation and/or cleanup is removed or modified, additional environmental work must be completed.

The attached DNR fact sheet "Continuing Obligations for Environmental Protection," RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may also be obtained at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

Continuing Obligations Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at http://dnr.wi.gov/topic/Brownfields/wrrd.html, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with Wis. Adm. Code § NR 812.09 (4) (w). This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at https://dnr.wi.gov/files/PDF/forms/3300/3300-254.pdf.

All site information is also on file at the DNR's Northern Region office at 107 Sutliff Avenue in Rhinelander, Wisconsin. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement, or a building foundation is required, as shown on the attached Figure D2, Cap Maintenance Area, prepared by American Engineering Testing, Inc., and dated November 21, 2017 (resubmitted June 5, 2018), unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under Wis. Stat. § 292.11, to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications and inspection reports in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
107 Sutliff Avenue
Rhinelander, WI 54501

Residual Groundwater Contamination (Wis. Adm. Code §§ NR 140, 812)
Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the attached Figure B.3.b, Groundwater Isoconcentration July 2017, prepared by American Engineering Testing, Inc., dated August 10, 2017 (resubmitted June 5, 2018). If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. Affected property owners and right-of-way holders were notified of the presence of groundwater contamination. This continuing obligation also applies to the owners of 503 Lake Avenue West, 212 West 6th Street North, and the City of Ladysmith as the ROW holders for West 6th Street North.

Residual Soil Contamination (Wis. Adm. Code §§ NR 718, 500 to 536, or Wis. Stat. § 289)
Soil contamination remains by the current pump islands, tank bed and canopy and extends to the east onto the right-of-way of West 6th Street and on the Westgate Mall property and north by MW-6 as indicated on the attached Figure B.2.b Residual Soil Contamination, prepared by American Engineering Testing, Inc., and dated November 17, 2017 (resubmitted June 5, 2018). If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with Wis. Adm. Code § NR 718, with prior DNR approval. This continuing obligation also applies to the owners of 503 Lake Avenue West, 212 West 6th Street North, and the City of Ladysmith as the ROW holders for West 6th Street North.

In addition, all current and future owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Cover or Barrier (Wis. Stat. § 292.12 (2) (a), Wis. Adm. Code §§ NR 726.15, NR 727.07)
The pavement that exists in the location shown on the attached Figure D2, Cap Maintenance Area, shall be maintained in compliance with Attachment D.1 Cap Maintenance Plan, prepared by American Engineering Testing, Inc., and dated October 19, 2017 (resubmitted June 5, 2018), in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in Wis. Adm. Code § NR 140, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

In this case, the building is also considered a structural impediment, and additional investigation and response requirements apply as described in the section titled Structural Impediments.

The cover approved for this closure was designed to be protective for a commercial or industrial use setting. A request may be made to modify or replace a cover or barrier. Before removing or replacing the cover, or before using the property for residential purposes, you must notify the DNR at least 45 days before taking an action. The replacement or modified cover or barrier must be protective of the revised use of the property and must be approved in writing by the DNR prior to implementation. A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a

school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single-family residence.

The maintenance plan and inspection log (DNR form 4400-305) included as part of Attachment D.1 Cap Maintenance Plan, are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

Structural Impediments (Wis. Stat. § 292.12 (2) (b), Wis. Adm. Code §§ NR 726.15, NR 727.07)
The existing site building as shown on the attached Figure B.2.b Residual Soil Contamination, and attachment B.5 Structural Impediment Photos, prepared by American Engineering Testing, Inc., and dated October 5, 2017 (resubmitted June 5, 2018), made complete investigation and/or remediation of the soil contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR at least 45 days before removal and conduct an investigation of the degree and extent of petroleum contamination below the structural impediment. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

PECFA Reimbursement

Wis. Stat. § 101.143, requires that Petroleum Environmental Cleanup Fund Award (PECFA) claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the DNR Project Manager to determine the method for salvaging the equipment.

Per Wisconsin Act 55 (2015 State budget), a claim for PECFA reimbursement must be submitted within 180 days of incurring costs (i.e., completing a task). If your final PECFA claim is not submitted within 180 days of incurring the costs, the costs will not be eligible for PECFA reimbursement.

In Closing

Please be aware that the case may be reopened pursuant to Wis. Adm. Code § NR 727.13, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under Wis. Stat. § 292.15, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Carrie Stoltz at (715) 365-8942 or at Carrie.Stoltz@Wisconsin.gov

Sincerely,

Christopher A. Saari
Northern Region Team Supervisor
Remediation and Redevelopment Program

Attachments:

- Figure B.3.b, Groundwater Isoconcentration July 2017, American Engineering Testing, Inc., August 10, 2017 (resubmitted June 5, 2018)
- Figure B.2.b Residual Soil Contamination, American Engineering Testing, Inc., November 17, 2017 (resubmitted June 5, 2018)
- Attachment D.1 Cap Maintenance Plan, dated October 19, 2017 (resubmitted June 5, 2018)
- Attachment B5 Structural Impediment Photos, American Engineering Testing, Inc., October 5, 2017 (resubmitted June 5, 2018)
- Continuing Obligations for Environmental Protection, DNR Publication RR-819

cc: Mike Neal – American Engineering Testing, Inc. (via email)
Carrie Stoltz – DNR Rhinelander (via email)

Resubmitted 6-5-18 mn

Residence
Residence
Residence
Residence
Residence
Residence
Residence
Residence
Grass
Grass
Grass
Grass
Grass
Grass
Parking Lot
Concrete
Canopy
Holiday Station Store #176
Westgate Mall
Pederson Ave W
W 6th Street
W 5th Street
Lake Avenue (US Highway 8)

1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128

MW-1	
Elevation	1,128.24
Benzene	ND
MTBE	ND

MW-2	
Elevation	1,118.07
Benzene	6,500
MTBE	670

MW-2R	
Elevation	1,118.59
Benzene	980
MTBE	1,500

MW-3	
Elevation	1,119.81
Benzene	ND
MTBE	ND

MW-4	
Elevation	1,117.48
Benzene	ND
MTBE	ND

MW-6	
Elevation	1,120.75
Benzene	2.7
MTBE	8.4

MW-7	
Elevation	1,117.35
Benzene	ND
MTBE	0.66

MW-8	
Elevation	1,117.42
Benzene	ND
MTBE	0.53

MW-9	
Elevation	1,117.57
Benzene	1,500
MTBE	240

MW-10	
Elevation	1,118.88
Benzene	ND
MTBE	0.55

MW-11	
Elevation	1,117.45
Benzene	ND
MTBE	2.5

MW-12	
Elevation	1,117.37
Benzene	ND
MTBE	1.8

MW-1
MW-2
MW-2R
MW-3
MW-4
MW-5 (Abandoned)
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12

Legend

- Monitoring Well Location
- Abandoned Monitoring Well Location
- Groundwater Contour
- Groundwater Flow Direction
- Extent of Groundwater Contamination
- Property Line
- Tank Location
- Buildings
- Streets
- Railroad
- Storm Sewer
- Water Line

MW-2R and MW-9 Not Used in Contouring
Benzene and MTBE in ppb
NS = Not Sampled
ND = Not Detected

AMERICAN ENGINEERING TESTING, INC

N

0 25 50 Feet

Figure B.3.b
GW Isoconcentration
July 2017

Groundwater Monitoring Report

Holiday Station #176
605 Lake Avenue West
Ladysmith, Wisconsin 54848

Date: 08/10/2017 AET Project No. 03-05482

File: HS176_03-05482_Fig4_GWD_0717.mxd Date: 08/10/2017

Resubmitted 6-5-18 mn

AREA OF DETAIL

Steep Slope

B-6/MW-6
SIDEWALL-NCTR
MW-2
MW-2R
NCTR-EXC
NW-EXC
NE-EXC
Holiday Station Store #176
B-2
B-1
SW-EXC
SCTR-EXC
SE-EXC
B-2
SB101
PIPE-4
PIPE-1
PMP-1
PMP-3
Canopy
PIPE-2
PIPE-3
PMP-4
PMP-2
MW-3
B-1

0 15 30 Feet

Residence
Residence
Grass
SB103
SB102/MW-7
SB104/MW-8
Pederson Ave W
LOC7
Residence
Residence
Residence
Grass
Steep Slope
W 6th Street
LOC6
B-4/MW-4
LOC5
Westgate Mall
SB107/MW-10
SB106/MW-9
MW-12
Steep Slope
B-6/MW-6
MW-2
MW-2R
SB105
LOC4
B-3
MW-11
LOC3
LOC2
Holiday Station Store #176
Structural Impediment
Parking Lot
MW-1
B-2
SB101
B-5/MW-5 (Abandoned)
LOC1
Residence
Residence
Concrete
Canopy
MW-3
B-1
Lake Avenue (US Highway 8)

Legend

- Monitoring Well Location
- Abandoned Monitoring Well Location
- Soil Boring Location
- UST Closure Sample Location 1995
- Soil Gas Monitoring Location
- Estimated Extent of Soil Contamination Exceeding GW Pathway RCL
- Estimated Extent of Soil Contamination Exceeding DC RCLs
- Property Line
- Tank Location
- Buildings
- Streets
- Railroad
- E — Overhead Electric
- ST — Storm Sewer
- W — Water Line
- G — Natural Gas

AMERICAN ENGINEERING TESTING, INC

N

0 25 50 Feet

Figure B.2.b

Residual Soil Contamination

Closure Application

Holiday Station #176
605 Lake Avenue West
Ladysmith, Wisconsin 54848

Date: 11/17/2017 AET Project No. 03-05482

File: HS176_LS_CA_FigB2a_SoilCont.mxd Date: 11/17/2017

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

September 2, 2009

Mr. Brad Goffin
Goffin Oil Company
407 W. Lake Avenue
Ladysmith, WI 54848

SUBJECT: Final Case Closure with Continuing Obligations for the Goffin Oil Company Site at 407 Lake Ave. West in Ladysmith, WI (BRRTS # 03-55-150407)

Dear Mr. Goffin:

On August 6, 2009, the Northern Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. In a letter dated August 10, 2009, you were notified that the Closure Committee had granted conditional closure to this case.

In a letter dated August 24, 2009 the Department received information or documentation indicating that you have complied with the requirements for final closure. The conditions of closure included the proper abandonment of the monitoring wells on the site.

Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time, however, you and future property owners must comply with certain continuing obligations as explained in this letter.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed

- Pavement must be maintained over contaminated soil and the state must approve any changes to this barrier
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Residual Soil Contamination

Residual soil contamination remains at the location of the old underground storage tanks (USTs) as indicated in Figure 1 titled "Estimated Extent of Soil Contamination" dated 02/09 in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Structural Impediments

Structural impediments existing at the time of cleanup as shown on Figure I and includes areas around the pump island, made complete investigation of the soil contamination on this property impracticable. Pursuant to s. 292.12(2)(b), Wis. Stats., if the structural impediments on this property that are described above are to be removed, the property owner shall notify the Department of Natural Resources before removal and conduct an investigation of the degree and extent of petroleum contamination. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules. If soil in the specific locations described above is excavated, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Cover or Barrier

Pursuant to s. 292.12(2)(a), Wis. Stats., the pavement that currently exists in the location shown on the attached Figure #3 "Exhibit B Soil Excavation Map" shall be maintained in compliance with the attached maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. The attached maintenance plan and inspection log are to be kept up-to-date and on-site. Please submit the inspection log to the Department only upon request.

Residual Groundwater Contamination

Groundwater impacted by petroleum contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present as shown on Figure 2 titled "Extent of Benzene Above and ES in Groundwater as of February 2009". For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Post-Closure Notification Requirements

In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Any activity or construction that results in the removal or modification of a structural impediment that obstructed a complete site investigation or cleanup

- Disturbance, construction on, change or removal in whole or part of pavement that must be maintained over contaminated soil

Please send written notifications in accordance with the above requirements to William Schultz at Wisconsin DNR, 107 Sutliff Ave., Rhinelander, WI 54501.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact William Schultz at (715) 365-8965.

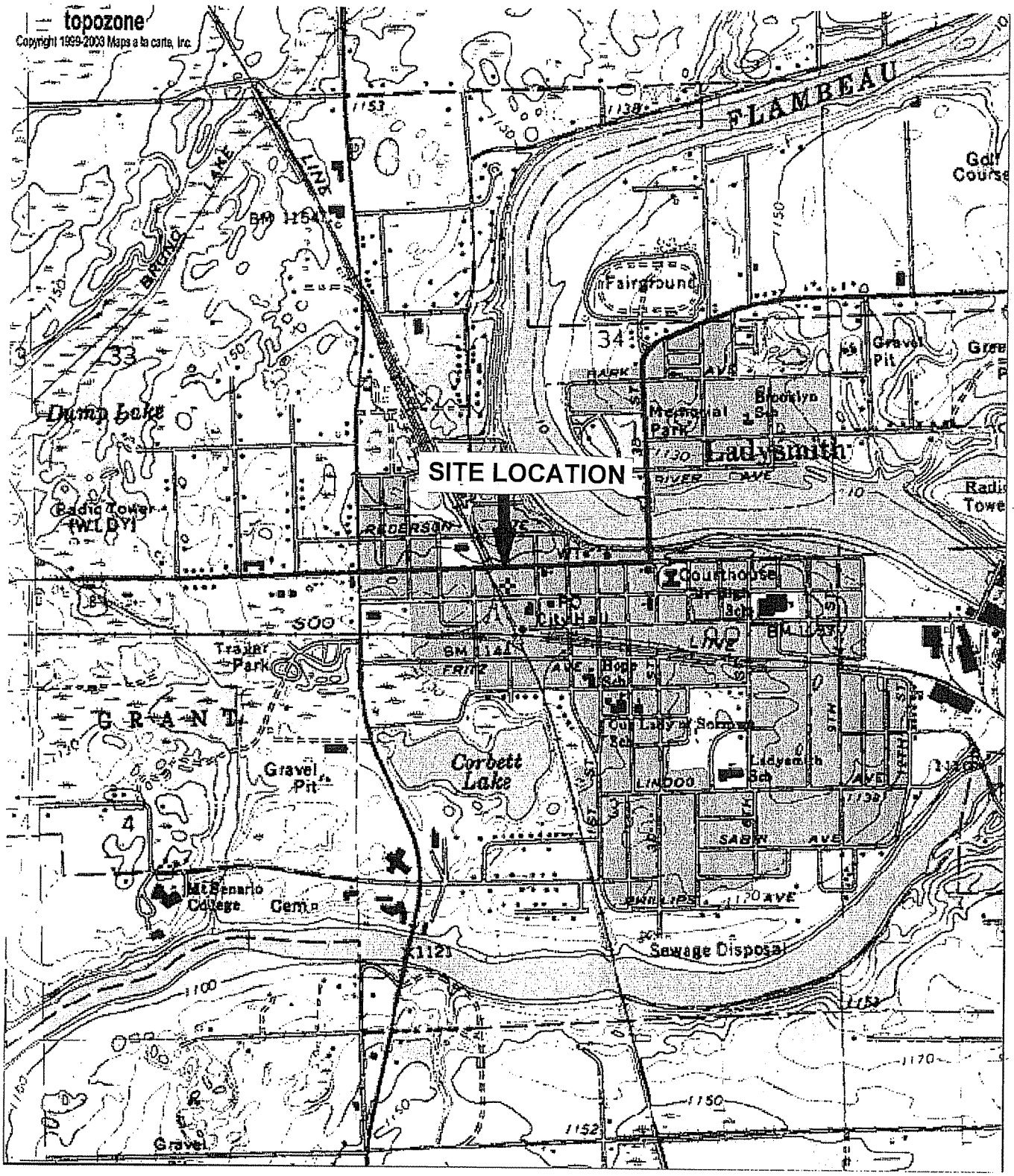
Sincerely,

John Robinson, Team Supervisor
Northern Region Remediation & Redevelopment Program

Attachments: Figure 1 – Estimated Extent of Soil Contamination
Figure 2 – Extent of Benzene Above and ES in Groundwater as of February 2009
Figure 3 – Exhibit B Soil Excavation Map
Pavement Cover Maintenance Plan
Cap Inspection Log

cc: Mike Neal, Tetra Tech
1837 CTH OO
Chippewa Falls, WI 54729-6519

Dave Blair, DCOM (by e-mail)



TETRA TECH Chippewa Falls, WI	**FIGURE 1** SITE LOCATION MAP GOFFIN OIL COMPANY SITE LADYSMITH, WISCONSIN	PROJECT# 1157332750 DATE: 2/4/2008 REV. BY: EPO SCALE: 1" = 24,000

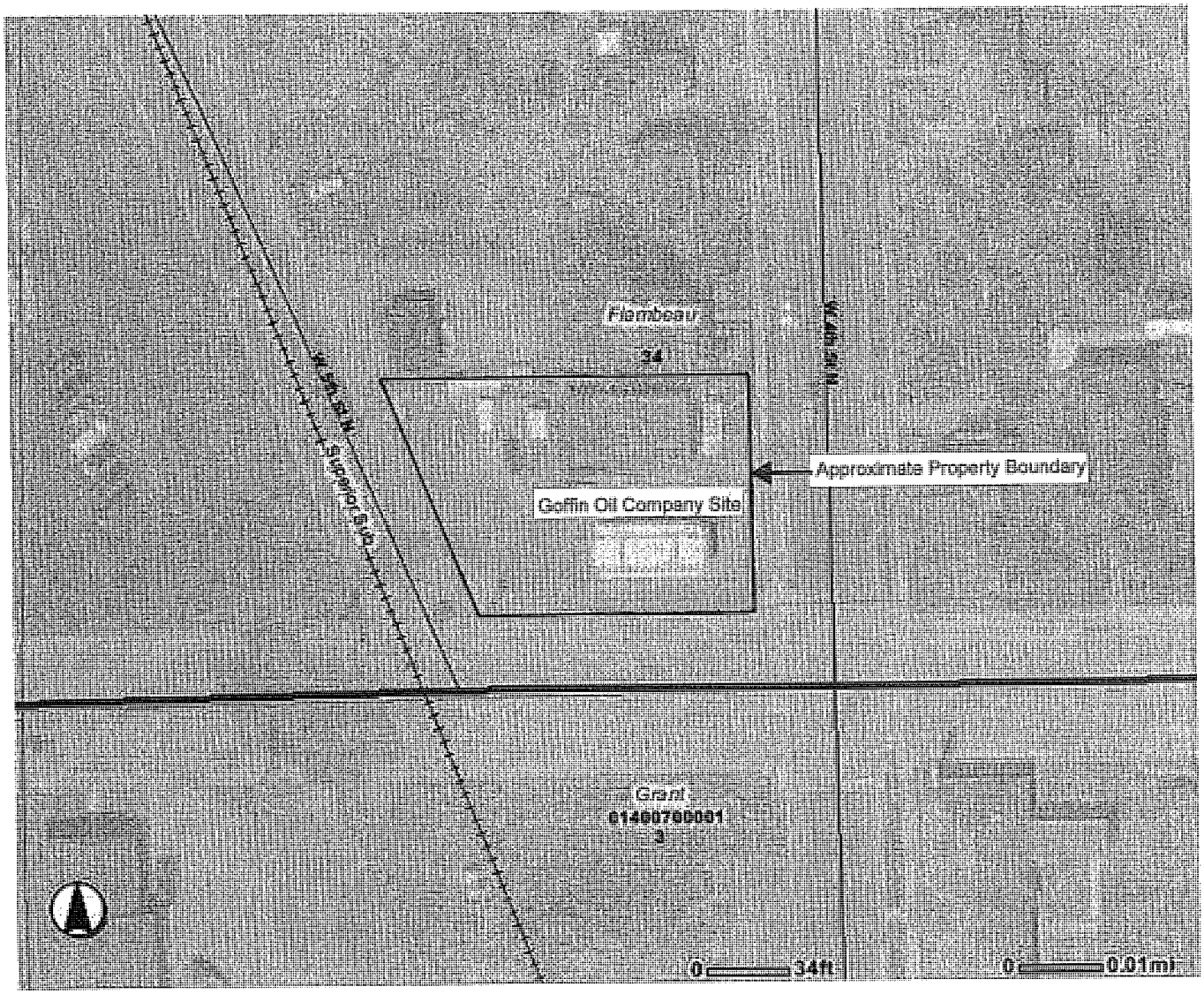
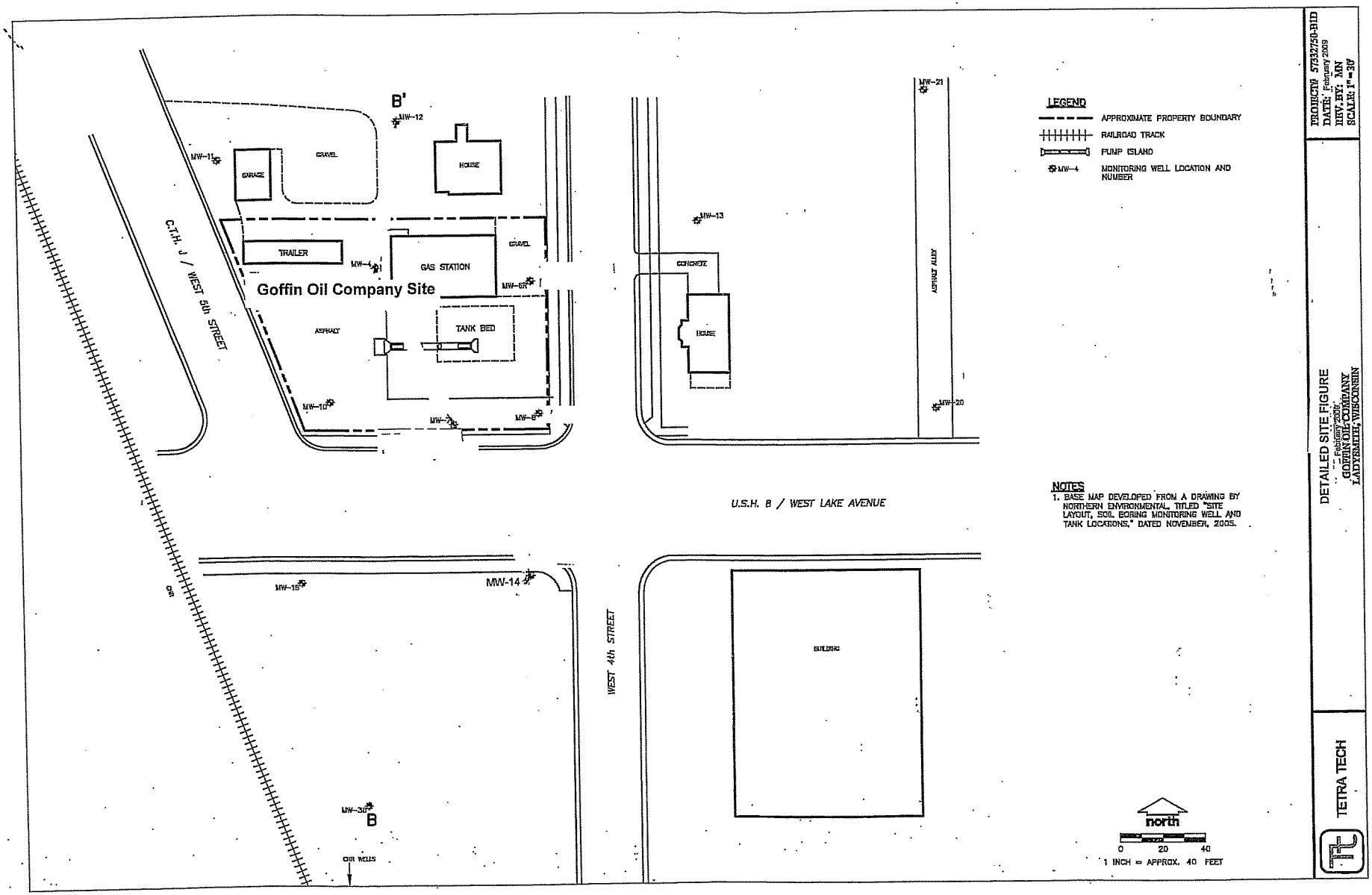
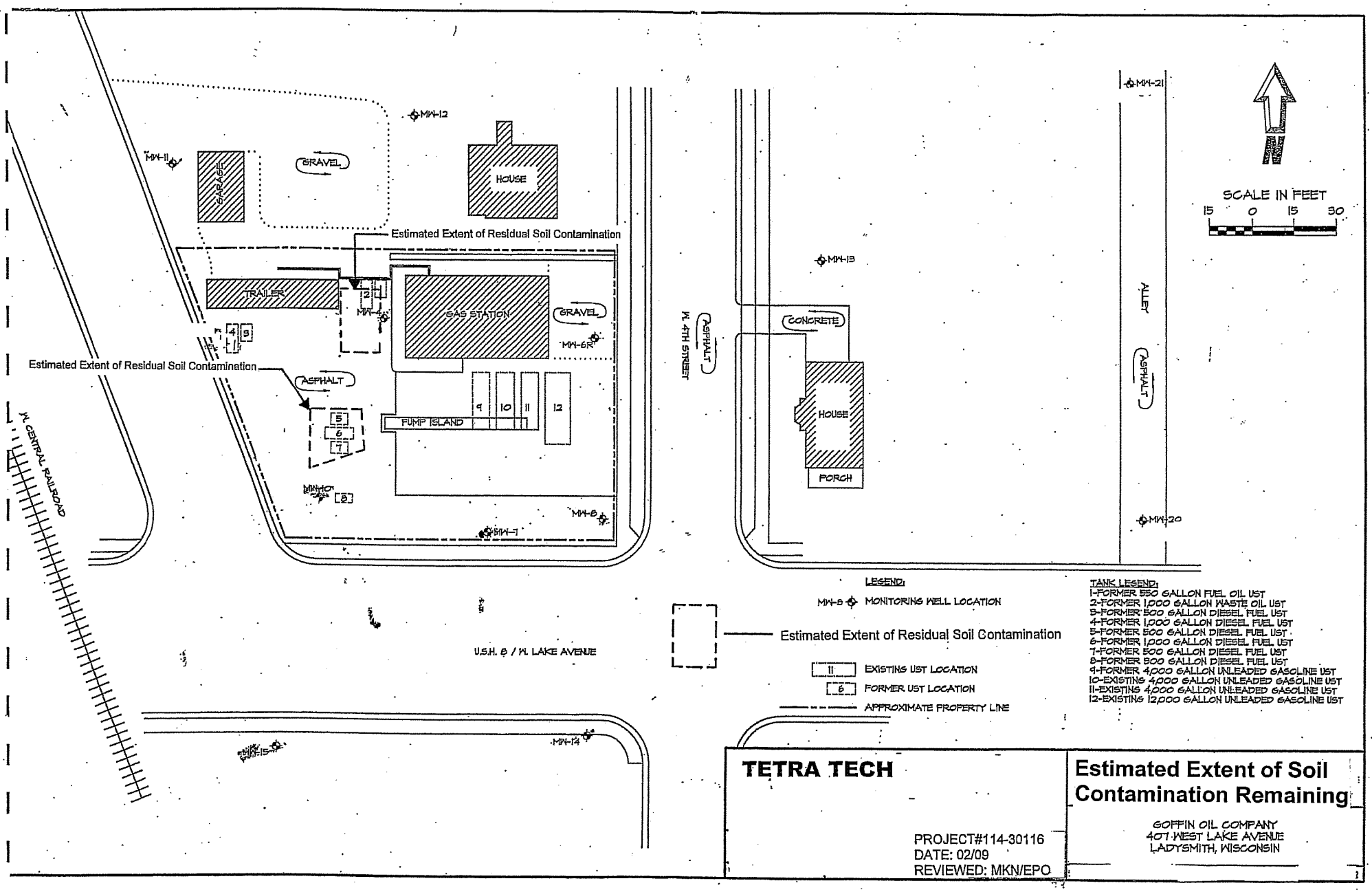
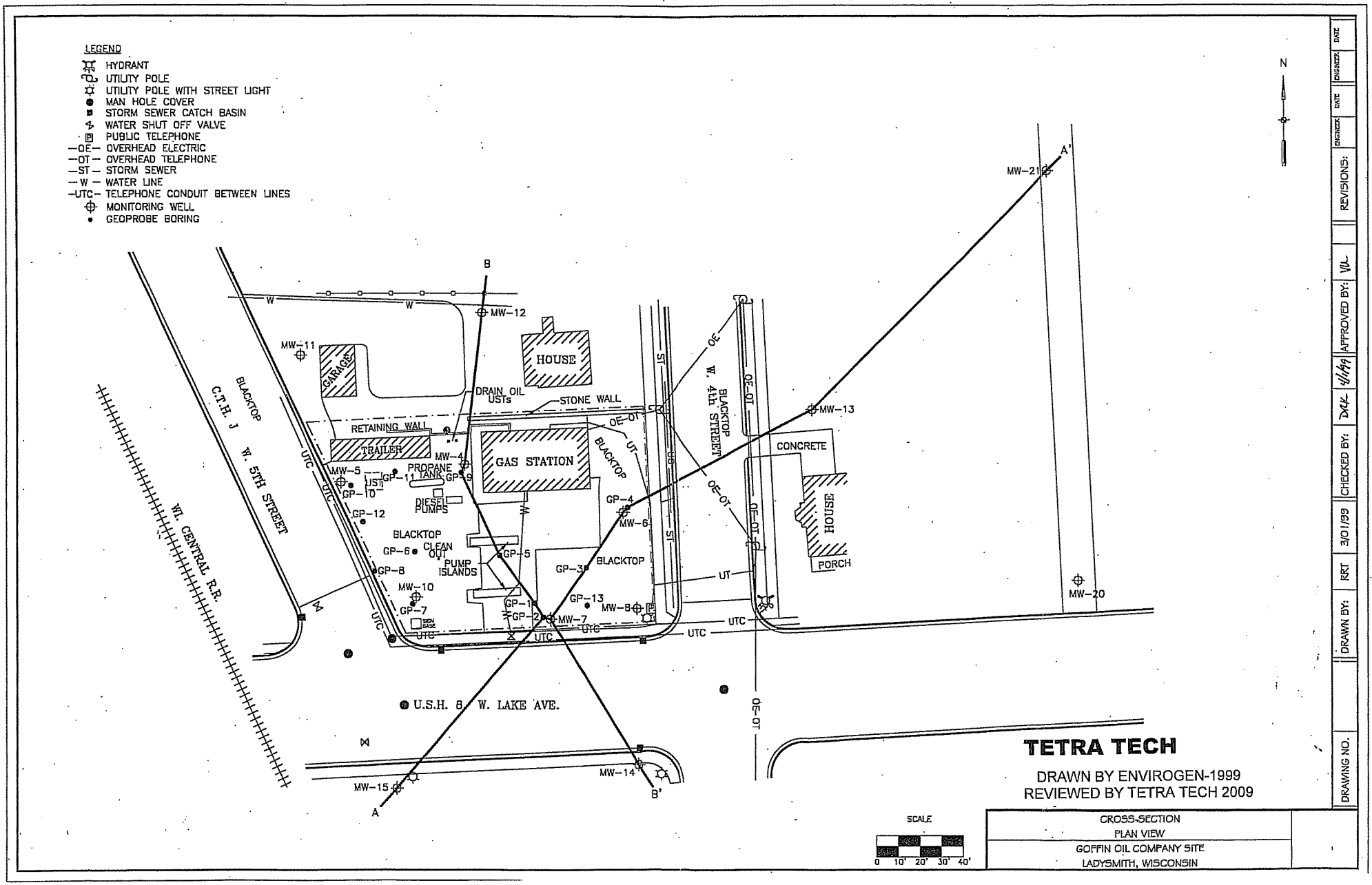


FIGURE #1 – SITE LOCATION MAP

TETRA TECH	**GOFFIN OIL COMPANY** 407 Lake Avenue West Ladysmith, Wisconsin	PROJECT#114-30116 DATE: 03/09 REVIEWED: MKN/EPO


B'
MW-12
MW-11
GARAGE
GRAVEL
HOUSE
C.T.H. J / WEST 6th STREET
TRAILER
MW-4
GAS STATION
GRAVEL
MW-6R
Goffin Oil Company Site
ASPHALT
TANK BED
MW-10
MW-7
MW-8
MW-21
MW-13
CONCRETE
HOUSE
ASPHALT ALLEY
MW-20
U.S.H. 8 / WEST LAKE AVENUE
MW-15
MW-14
WEST 4th STREET
BUILDING
MW-30
B
GAS WELLS
LEGEND
APPROXIMATE PROPERTY BOUNDARY
RAILROAD TRACK
PUMP ISLAND
MW-4 MONITORING WELL LOCATION AND NUMBER
NOTES
1. BASE MAP DEVELOPED FROM A DRAWING BY NORTHERN ENVIRONMENTAL, TITLED "SITE LAYOUT, SOIL BORING MONITORING WELL AND TANK LOCATIONS," DATED NOVEMBER, 2005.
north
0 20 40
1 INCH = APPROX. 40 FEET
PROJECT#: 5733750-B1D
DATE: February 2009
DRW. BY: MN
SCALE: 1"=30'
DETAILED SITE FIGURE
Feb/mar 2009
GOFFIN OIL COMPANY
LADYSMITH, WISCONSIN
TETRA TECH


MW-12
MW-11
GARAGE
GRAVEL
HOUSE
Estimated Extent of Residual Soil Contamination
TRAILER
MW-3
GAS STATION
GRAVEL
MW-6R
Estimated Extent of Residual Soil Contamination
ASPHALT
4
9
5
6
7
FUMP ISLAND
9
10
11
12
MW-10
8
MW-8
MW-7
N. CENTRAL RAILROAD
U.S.H. 8 / W. LAKE AVENUE
MW-14
MW-15
MW-13
CONCRETE
HOUSE
PORCH
N. 4TH STREET
ASPHALT
MW-21
ALLEY
ASPHALT
MW-20
SCALE IN FEET
15 0 15 30
LEGEND:
MW-8 MONITORING WELL LOCATION
Estimated Extent of Residual Soil Contamination
11 EXISTING UST LOCATION
6 FORMER UST LOCATION
APPROXIMATE PROPERTY LINE
TANK LEGEND:
1-FORMER 550 GALLON FUEL OIL UST
2-FORMER 1,000 GALLON WASTE OIL UST
3-FORMER 500 GALLON DIESEL FUEL UST
4-FORMER 1,000 GALLON DIESEL FUEL UST
5-FORMER 500 GALLON DIESEL FUEL UST
6-FORMER 1,000 GALLON DIESEL FUEL UST
7-FORMER 500 GALLON DIESEL FUEL UST
8-FORMER 500 GALLON DIESEL FUEL UST
9-FORMER 4,000 GALLON UNLEADED GASOLINE UST
10-EXISTING 4,000 GALLON UNLEADED GASOLINE UST
11-EXISTING 4,000 GALLON UNLEADED GASOLINE UST
12-EXISTING 12,000 GALLON UNLEADED GASOLINE UST
TETRA TECH
PROJECT#114-30116
DATE: 02/09
REVIEWED: MKN/EPO
Estimated Extent of Soil Contamination Remaining
GOFFIN OIL COMPANY
407 WEST LAKE AVENUE
LADYSMITH, WISCONSIN

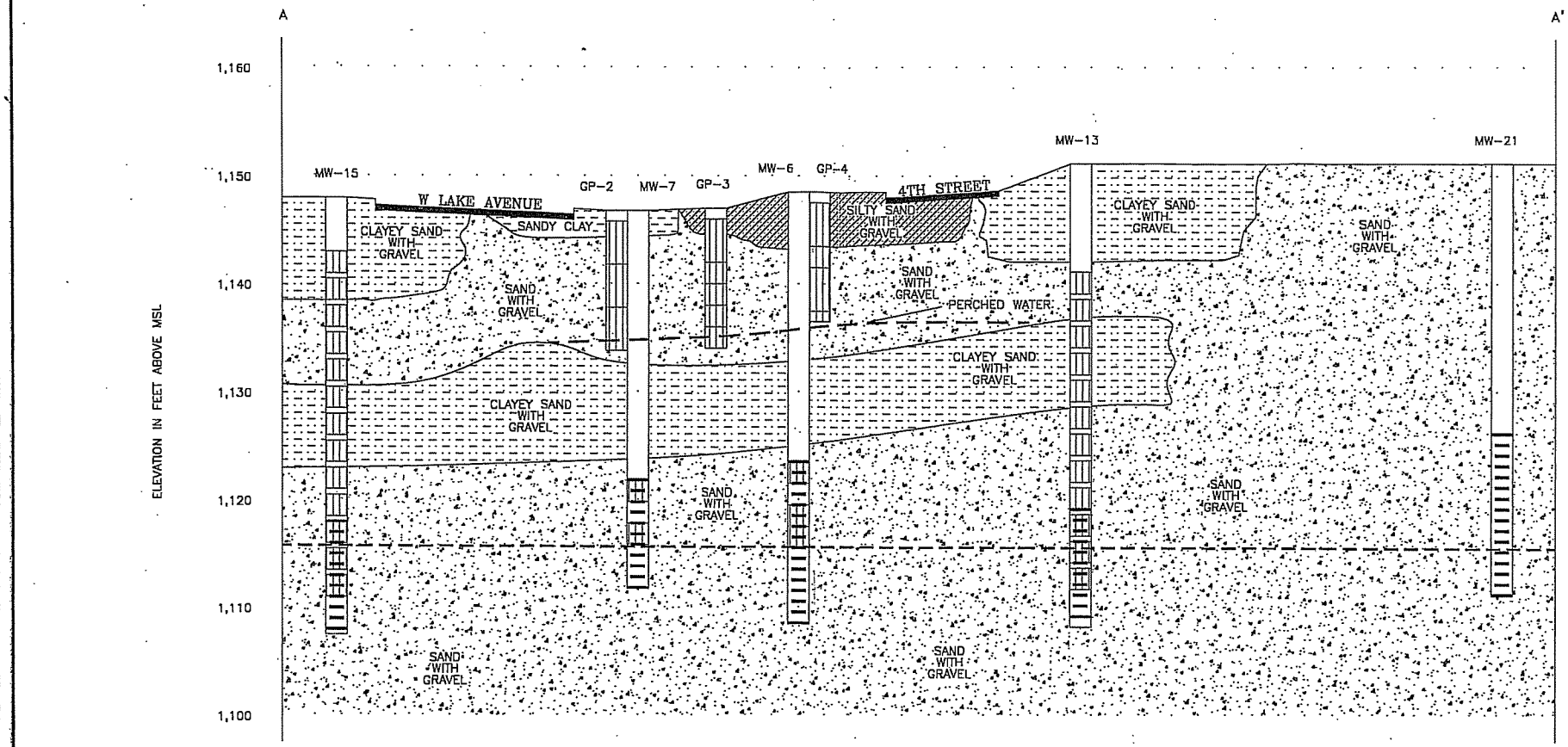


TETRA TECH

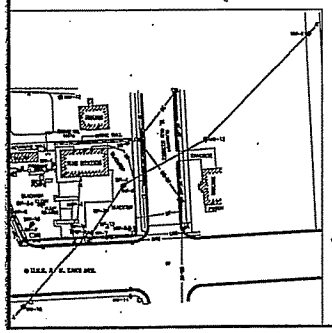
DRAWN BY ENVIROGEN-1999
REVIEWED BY TETRA TECH 2009

CROSS-SECTION PLAN VIEW	
GOFFIN OIL COMPANY SITE LADYSMITH, WISCONSIN	

DRAWN BY:	RRT
DATE	3/01/99
CHECKED BY:	DAL
ENGINEER	4/1/99
APPROVED BY:	WL
REVISIONS:	
ENGINEER	
DATE	
ENGINEER	
DATE	
DRAWING NO.	



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

GROUNDWATER TABLE (12/09/98)

SCALE

HORIZONTAL: 1" = 40'

VERTICAL: 1" = 10'

TETRA TECH

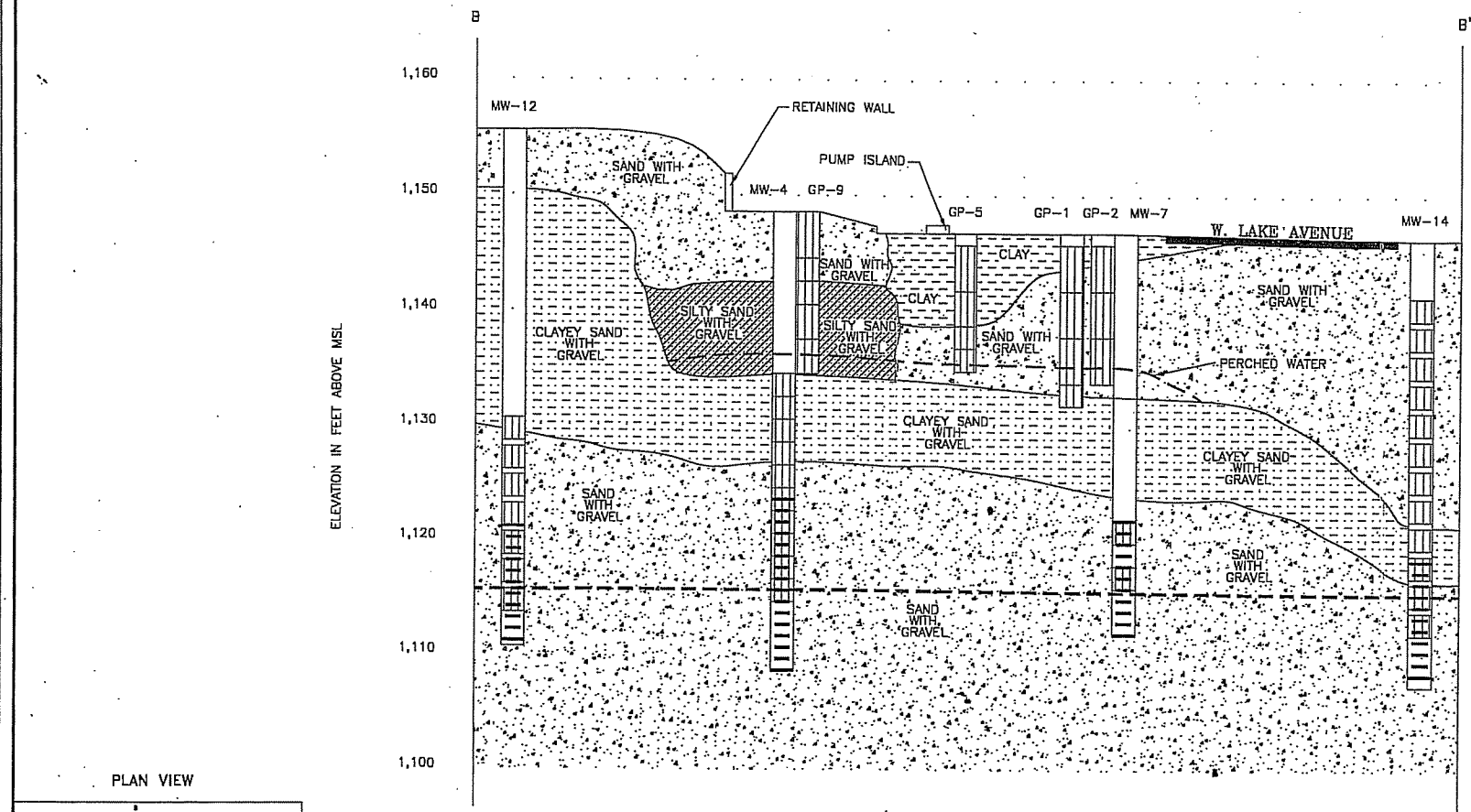
DRAWN BY ENVIROGEN-1999
REVIEWED BY TETRA TECH 2009

GEOLOGIC CROSS-SECTION A-A'

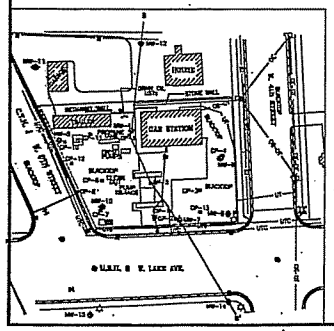
GOFFIN OIL COMPANY SITE
LADYSMITH, WISCONSIN

Figure 6

DRAWING NO.		REVISIONS:		
DRAWN BY:	RRT			
CHECKED BY:	DRL			
APPROVED BY:	VAL			
DATE	3/02/99			
ENGINEER				
DATE				
ENGINEER				
DATE				



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

GROUNDWATER TABLE (12/09/98)

SCALE

HORIZONTAL: 1" = 30'

VERTICAL: 1" = 10'

TETRA TECH

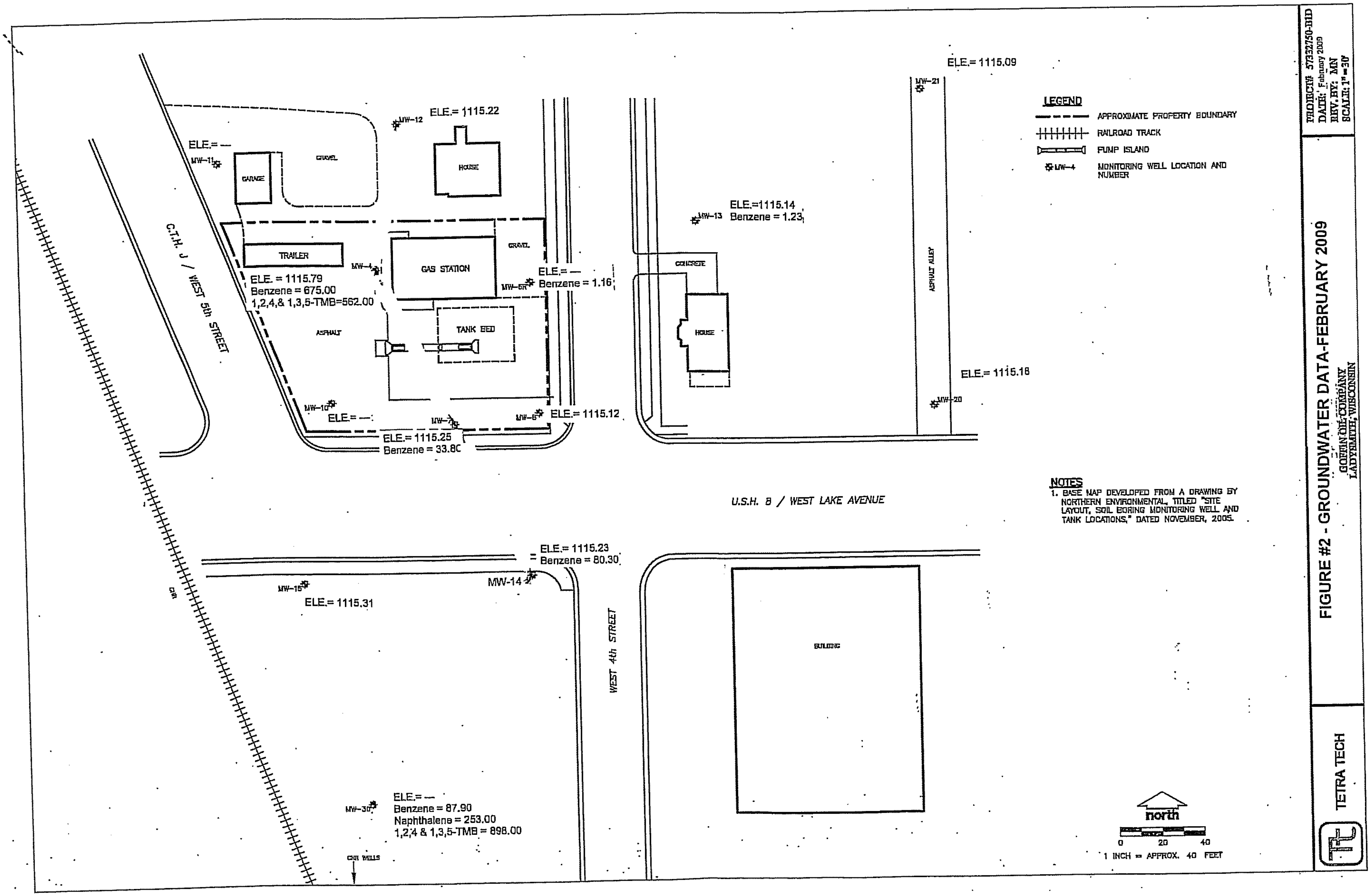
DRAWN BY ENVIROGEN-1999
REVIEWED BY TETRA TECH 2009

GEOLOGIC CROSS-SECTION B-B'

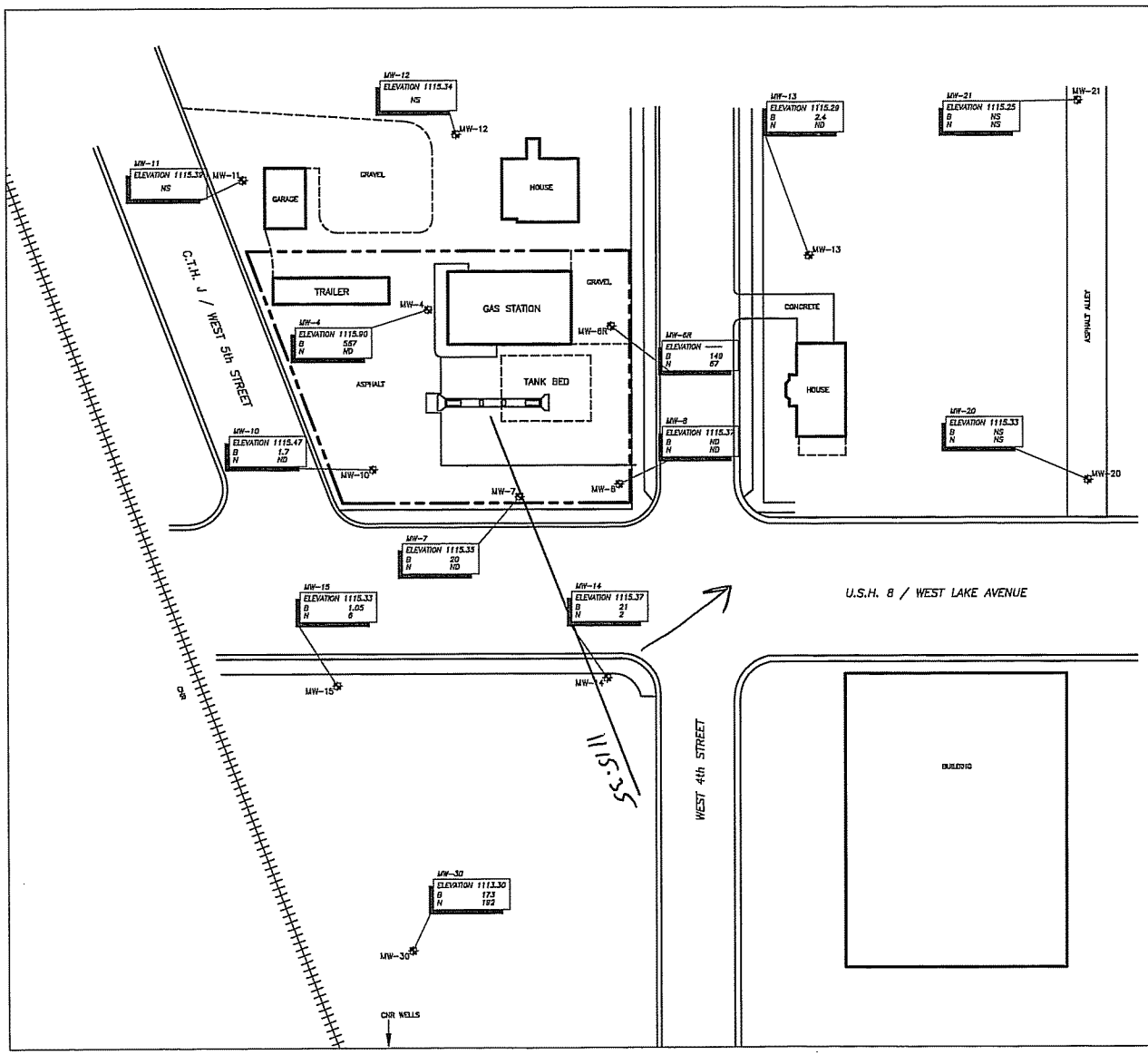
GOFFIN OIL COMPANY SITE
LADYSMITH, WISCONSIN

Figure 5

DRAWING NO.	DRAWN BY:	RRT	3/02/99	CHECKED BY:	DLK	4/16/99	APPROVED BY:	WJL	REVISIONS:	ENGINEER	DATE	ENGINEER	DATE



ELE.= 1115.22
MW-12
HOUSE
GRAVEL
GARAGE
ELE.= —
MW-11
TRAILER
GAS STATION
GRAVEL
MW-4
ELE. = 1115.79
Benzene = 675.00
1,2,4,& 1,3,5-TMB=562.00
MW-5R
ELE.= —
Benzene = 1.16
ASPHALT
TANK BED
MW-10
ELE.= —
MW-7
MW-6
ELE.= 1115.12
ELE.= 1115.25
Benzene = 33.80
C.T.H. J / WEST 5th STREET
ELE.= 1115.09
MW-21
ELE.=1115.14
Benzene = 1.23
MW-13
CONCRETE
HOUSE
ASPHALT ALLEY
ELE.= 1115.18
MW-20
LEGEND
APPROXIMATE PROPERTY BOUNDARY
RAILROAD TRACK
PUMP ISLAND
MW-4 MONITORING WELL LOCATION AND NUMBER
U.S.H. 8 / WEST LAKE AVENUE
NOTES
1. BASE MAP DEVELOPED FROM A DRAWING BY NORTHERN ENVIRONMENTAL, TITLED "SITE LAYOUT, SOIL BORING MONITORING WELL AND TANK LOCATIONS," DATED NOVEMBER, 2005.
ELE.= 1115.23
Benzene = 80.30
MW-14
MW-15
ELE.= 1115.31
WEST 4th STREET
BUILDING
ELE.= —
Benzene = 87.90
Naphthalene = 253.00
1,2,4 & 1,3,5-TMB = 898.00
MW-30
CNR WELLS
north
0 20 40
1 INCH = APPROX. 40 FEET
FIGURE #2 - GROUNDWATER DATA-FEBRUARY 2009
GOFFIN OIL COMPANY
LADYSMITH, WISCONSIN
TETRA TECH
DATE: February 2009
REV. BY: MN
SCALE: 1" = 30'



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD TRACK
- PUMP ISLAND
- MW-4 — MONITORING WELL LOCATION AND NUMBER
- 1115.09 — MEASURED GROUNDWATER ELEVATION, in ft msl
- B — BENZENE, in parts per billion
- N — NAPHTHALENE, in parts per billion
- NS — NOT SAMPLED
- ← Groundwater Flow

NOTES

1. BASE MAP DEVELOPED FROM A DRAWING BY NORTHERN ENVIRONMENTAL, TITLED "SITE LAYOUT, SOIL BORING MONITORING WELL AND TANK LOCATIONS," DATED NOVEMBER, 2005.

north

0 20 40

1 INCH = APPROX. 40 FEET

FIGURE 4
GROUNDWATER DATA
JUNE 2007
GOFFIN OIL COMPANY
LADYSMITH, WISCONSIN

PROJECT# 57332750-B1B
DATE: 9/10/07
REV. BY: MN
SCALE: 1" = 30'

TETRA TECH

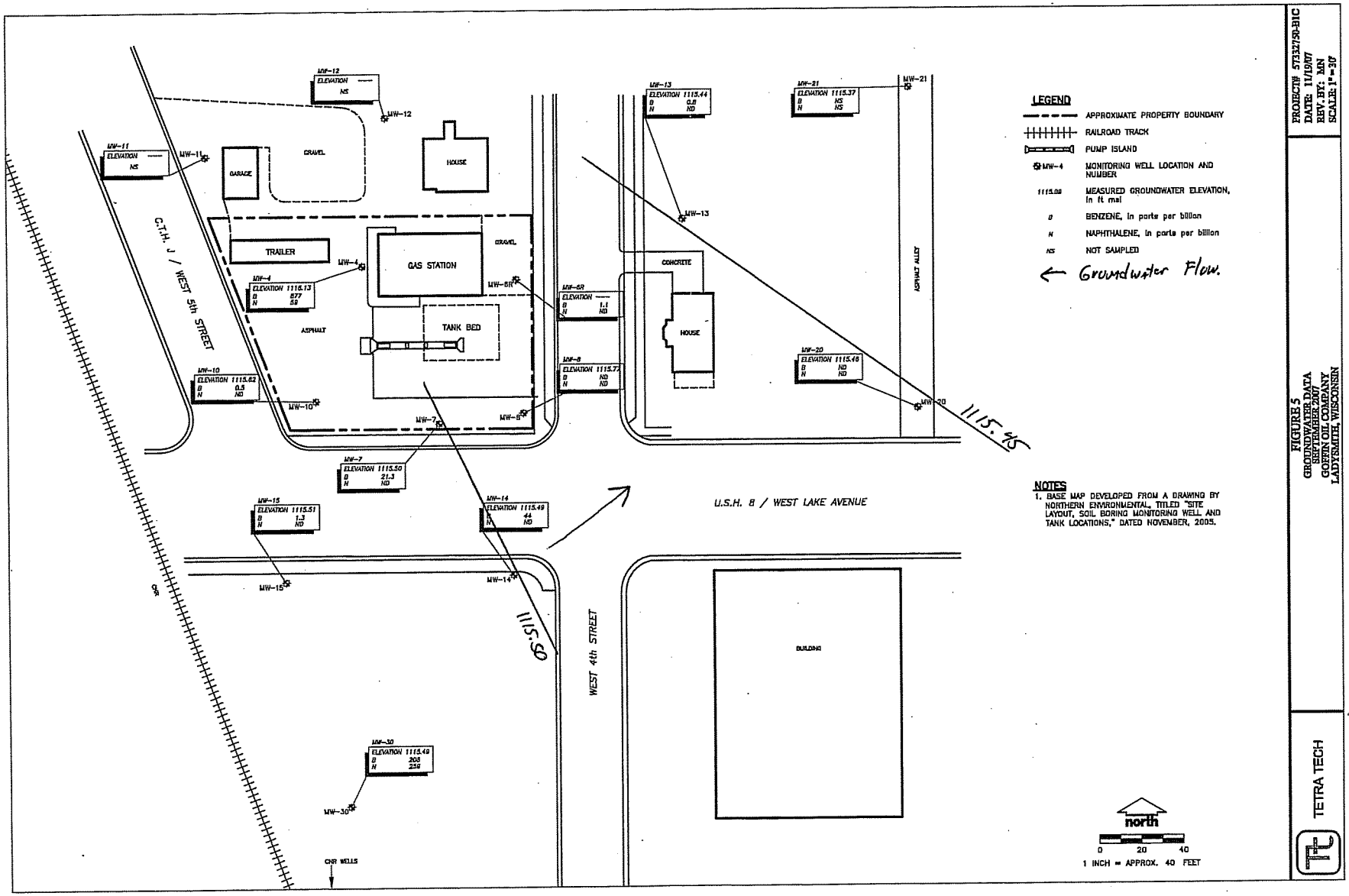


FIGURE 5
GROUNDWATER DATA
SEPTEMBER 2007
GOFFIN OIL COMPANY
LADYSMITH, WISCONSIN

PROJECT# 5733270-31C
DATE: 11/19/07
REV. BY: MN
SCALE: 1" = 30'

TETRA TECH

Table 1, Remedial Excavation Soil Field Screening Results, Giffin Oil Company, Ladysmith, Wisconsin

Sample Label	Depth (feet)	Sample Location	Date Collected	PID Headspace Analysis		
				Time Collected	Time Analyzed	PID Response (iui)
S1	3	Landfill	10/27/04	0814	0847	195
S2*	5	Landfill	10/27/04	0823	0848	1990
S3	8	Landfill	10/27/04	0829	1848	1172
S4	10	Landfill	10/27/04	0900	0930	681
S5	11	Landfill	10/27/04	0909	0931	729
S6	13	Landfill	10/27/04	0949	1059	111
S7	14	Landfill	10/27/04	0958	1100	123
S8	15	Landfill	10/27/04	1005	1101	79
S9	13	Landfill	10/27/04	1038	1101	341
S10	3	Northeast corner	10/27/04	1043	1126	32
S11	6	Northeast corner	10/27/04	1044	1127	143
S12	9	Northeast corner	10/27/04	1045	1127	366
S13*	12	Northeast corner	10/27/04	1046	1128	249
S14*	3	West Wall	10/27/04	1047	1129	88
S15	6	West Wall	10/27/04	1048	1129	275
S16*	9	West Wall	10/27/04	1049	1130	276
S17	12	West Wall	10/27/04	1050	1130	123
S18	3	Southeast corner	10/27/04	1051	1130	71
S19*	6	Southeast corner	10/27/04	1052	1131	359
S20	9	Southeast corner	10/27/04	1053	1131	104
S21	12	Southeast corner	10/27/04	1054	1131	108
S22*	15	Bottom	10/27/04	1055	1132	206
S23	3	Landfill	10/27/04	1303	1336	493
S24*	6	Landfill	10/27/04	1310	1336	809
S25	8	Landfill	10/27/04	1318	1337	505
S26	9	Landfill	10/27/04	1350	1414	213
S27	10	Landfill	10/27/04	1357	1414	343
S28	15	Landfill	10/27/04	1410	1433	498
S29	14	Landfill	10/27/04	1440	1526	168
S30	15	Landfill	10/27/04	1447	1526	115
S31	15	Landfill	10/27/04	1500	1527	277
S32	3	Northeast corner	10/27/04	1508	1529	33
S33	6	Northeast corner	10/27/04	1509	1529	98
S34*	9	Northeast corner	10/27/04	1510	1530	266
S35*	12	Northeast corner	10/27/04	1511	1530	416
S36	3	Southeast corner	10/27/04	1512	1530	65
S37*	6	Southeast corner	10/27/04	1513	1531	215
S38	9	Southeast corner	10/27/04	1514	1531	133
S39	12	Southeast corner	10/27/04	1515	1534	234
S40*	3	West Wall	10/27/04	1516	1535	333
S41	6	West Wall	10/27/04	1517	1535	342
S42	9	West Wall	10/27/04	1518	1535	233
S43	12	West Wall	10/27/04	1519	1536	162
S44*	15	Bottom	10/27/04	1520	1536	330

NOTE:

PID = Photoionization Detector

iui = instrument units as isobutylene

* = submitted for laboratory analysis

... = not analyzed

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Table 2, Remedial Excavation Soil Analytical Results (Lead, DRO, GRO, PVOCs), Goffin Oil Company, Ladysmith, Wisconsin

Sample Number	Sample Depth (feet)	Date Sampled	Relevant and Significant Analytical Results									
						PVOCs (µg/kg)						
			Lead (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	Benzene	Ethylbenzene	MTBE	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
WAC Chapter NR 720 RCLs			50	100	100	5.5	2900	NE	1500	NE	NE	4100
NR 746/WDComm 46 Table 2 Values			NE	NE	NE	1100	NE	NE	NE	NE	NE	NE
NR 746/WDComm 46 Table 1 Values			NE	NE	NE	8500	4600	NE	38000	83000	11000	42000
S2	5	10/27/04	—	—	—	1950	8790	<271	<694	78100	26000	87900
S13	12	10/27/04	<4.4	9.9	<5.5	<27	<27	<27	<27	80	31	<82
S14	3	10/27/04	<4.4	622	75	<28	100	<28	92	488	31	577
S16	9	10/27/04	<4.5	1790	548	<134	1680	<134	302	3240	682	2130
S19	6	10/27/04	<4.6	922	717	876	2620	<28	<523	15900	5350	10700
S22	15	10/27/04	<4.4	2320	507	805	2980	<28	1430	7720	2540	7390
S24	6	10/27/04	—	—	—	307	953	<27	745	2960	876	3180
S34	9	10/27/04	<4.7	<5.8	<5.8	79	<29	48	110	70	<29	128
S35	12	10/27/04	<4.3	640	1190	3150	21700	<271	26000	78100	21700	108000
S37	6	10/27/04	<4.5	871	1230	5470	22300	<279	45800	78100	22300	123000
S40	3	10/27/04	6.4	653	676	991	4170	<28	1100	37200	12400	10000
S44	15	10/27/04	<4.5	<5.6	<5.6	30	30	<28	64	98	39	157

Note:

PVOCs = Petroleum Volatile Organic Compounds

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

MTBE = Methyl Tert-Butyl Ether

NE = Not Established by Wisconsin Administrative Code (WAC) Chapter NR 720

S15 = sample submitted to confirm that soil being removed was petroleum contaminated

53 = WAC Chapter NR 720 Residual Contaminant Level (RCL) Exceeded

NR = Natural Resources

<x = Not detected above laboratory detection limit of x

"J" = analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

— = not analyzed

Table 3, Remedial Excavation Soil Analytical Results (PAHs), Goffin Oil Company, Ladysmith, Wisconsin

Sample ID	Sample Depth (feet)	Date Sampled	QC Hold Time Met	Relevant and Significant Analytical Results: PAHs (mg/kg) 1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
RR-519-97 PAH Ground-Water Pathway RCLs				23	20	38	0.7	3000	17	48	380	6800	870	37	38	500	100	060	0.4	1.8	8700
RR-519-97 PAH Direct Contact Pathway Non-Industrial RCLs				1100	600	900	18	5000	0.088	0.0088	0.088	1.8	0.88	8.8	0.0088	600	600	0.088	20	18	500
RR-519-97 PAH Direct Contact Pathway Industrial RCLs				70000	40000	60000	360	300000	3.9	0.39	3.9	39	39	390	0.39	40000	40000	3.9	110	390	30000
S13	12	10/27/04	Yes	<33	<27	<55	<83	<5.5	12	<5.5	<5.5	<5.5	<5.5	<5.5	<8.2	12	<11	<5.5	<33	14	<5.5
S14	3	10/27/04	Yes	<33	60	<55	<84	8.8	48	<5.5	<5.5	<5.5	<5.5	<5.5	<8.3	69	18	<5.5	36	42	41
S18	9	10/27/04	Yes	2130	4250	78	<85	178	157	<5.8	<5.8	<5.8	<5.8	35	<8.4	851	414	<5.8	705	727	336
S19	6	10/27/04	Yes	250	523	<57	<87	23	11	<5.7	<5.7	<5.7	<5.7	<5.7	<8.5	80	30	<5.7	100	71	148
S22	15	10/27/04	Yes	4000	6730	254	<84	320	1210	<5.5	10	<5.5	<5.5	17	<8.3	1650	848	<5.5	1900	1760	1050
S34	9	10/27/04	Yes	<35	47	<58	<89	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<8.7	<12	<12	<5.8	<35	<5.8	<5.8
S35	12	10/27/04	Yes	10200	21700	<54	<82	68	79	5.7	<5.4	5.9	<5.4	20	<8.1	206	510	<5.4	15200	174	130
S37	6	10/27/04	Yes	6700	13400	<56	<85	57	71	8.0	10	9.5	<5.8	21	<8.4	110	223	<5.6	6810	96	88
S40	3	10/27/04	Yes	293	529	<56	<86	7.4	8.4	6.8	<5.8	6.9	<5.8	<5.8	<8.4	24	18	<5.8	225	27	18
S44	15	10/27/04	Yes	<34	<26	<56	<85	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<8.4	<11	<11	<5.6	<34	<5.6	<5.6

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

mg/kg = milligrams per kilogram

<x = not detected above laboratory detection limit of x

"J" = analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

Bold Print = RR-519-97 PAH Ground-Water Pathway Residual Contaminant Level (RCL) Exceeded

= RR-519-97 PAH Direct Contact Pathway Non-Industrial RCL Exceeded

TABLE 1 (page 1 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-4														NR 140 Remedial Action Limits	
Date	Oct-97	Jun-98	Dec-98	Nov-99	Mar-00	Jun-02	Dec-04	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	---	1115.75	1115.90	1116.13	1116.65	1115.79		
ANALYTE															*ES*	*PAL*
VOCs/PVOCs (ppb)																
Benzene	***7,300***	***460***	***620***	***4,000***	***227***	***2,200***	***1,000***	***550***	***640***	***376***	***567***	***877***	***1,460***	***675***	*5*	*0.5*
2-Chlorotoluene	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---
Ethylbenzene	***3,300***	***900***	***850***	***1,800***	80	***1,000***	***710***	**530**	**380**	136	77	**391**	**503**	**378**	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---
MTBE	< 28	< 40	< 4	**41**	**18**	< 25	< 5	< 6	< 6	< 5	< 6	< 6	<6	**45.4**	*60*	*12*
Naphthalene	***590***	---	---	---	---	***200***	***190***	***110***	**80**	< 50	< 16	**59**	**149**	**77**	*100*	*10*
Propylbenzene	---	---	---	---	---	---	---	---	---	30	---	---	---	---	---	---
Toluene	***27,000***	***2,600***	***2,100***	***9,100***	**211**	***4,900***	***2,600***	***1,800***	***1,200***	324	**409**	***1,190***	***1,590***	**960**	*1,000*	*200*
1,2,4- & 1,3,5-TMB	***3,600***	***1,550***	***1,540***	***2,610***	60	***1,950***	***1,470***	***1,290***	***690***	**265**	**253**	***527***	***682***	***562***	*480*	*96*
Total Xylenes	***19,000***	**4,900**	**4,600**	**9,000**	396	**4,800**	**3,200**	**2,600**	**1,700**	676	769	**1,998**	**2,841**	**1,991**	*10,000*	*1,000*

Well Depth (feet):	40
TOC Elevation (feet):	1148.25
Date Installed:	23-Sep-97
Screen Length (feet):	15

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

TABLE 1 (page 2 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-6R							NR 140 Remedial Action Limits	
Date	Dec-04	Jun-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	ES	PAL
ANALYTE									
VOCs/PVOCs (ppb)									
Benzene	***22***	**2.6**	***247***	***149***	**1.1**	***17.7***	**1.16**	*5*	*0.5*
2-Chlorotoluene	---	---	14	---	---	---	---	*---*	*---*
Ethylbenzene	< 0.2	< 0.5	**153**	**168**	< 0.5	0.5	<0.5	*700*	*140*
Isopropylbenzene	---	---	9	---	---	---	---	*---*	*---*
MTBE	< 6	7.5	9	5.5	< 0.3	1.5	2.5	*60*	*12*
Naphthalene	< 0.5	---	**31**	**67**	< 0.8	< 0.8	<0.8	*100*	*10*
Propylbenzene	---	---	21	---	---	---	---	*---*	*---*
Toluene	0.13	< 0.13	118	< 2	< 0.3	0.8	<0.3	*1,000*	*200*
1,2,4- & 1,3,5-TMB	< 0.4	< 2	**153**	**135**	< 0.4	< 0.4	<0.4	*480*	*96*
Total Xylenes	< 0.4	< 2	546	157	< 0.6	1	<0.6	*10,000*	*1,000*

Well Depth (feet):
TOC Elevation (feet):
Date Installed:
Screen Length (feet): 10

ND = Not Detected
--- = not analyzed or no standard
MTBE = methyl-tert-butylether
TMB = trimethylbenzene
Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.
Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

TABLE 1 (page 3 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-7															*NR 140 Remedial Action Limits*	
Date	Oct-97	Jun-98	Dec-98	Nov-99	Mar-00	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	---	---	1115.15	1115.35	1115.50	1116.06	1115.25		
ANALYTE																*ES*	*PAL*
VOCs/PVOCs (ppb)																	
Benzene	***1,800***	***1,500***	***780***	***1,300***	***1,120***	***210***	***170***	***160***	***440***	***360***	**2.5**	***20***	***21.3***	***13.4***	***33.8***	*5*	*0.5*
1,2-Dichloroethylene (cis)	< 5	---	---	---	---	---	---	---	---	---	0.32	---	---	---	---	*70*	*7*
Ethylbenzene	95	72	14	76	***900***	4	3	2	8	< 3	< 0.1	< 0.5	< 0.5	0.8	0.56	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	---	---	0.32	---	---	---	---	*---*	*---*
MTBE	12	< 20	< 2	**13**	**28**	< 0.4	< 3	< 0.8	< 0.6	< 0.5	3	3.5	3	1.6	1.57	*60*	*12*
Naphthalene	7	---	---	---	---	---	< 0.5	---	---	---	< 1	< 0.8	< 0.8	< 0.8	0.85	*100*	*10*
Toluene	82	21	4	25	***3,660***	2	1	1.5	3	< 0.7	< 0.4	< 1	< 1	< 0.3	0.58	*1,000*	*200*
Trichloroethene	***190***	---	---	---	---	---	---	---	---	---	**1.5**	---	---	---	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	19	9	2	15	***1,785***	< 2	0.4	0.5	< 6	< 6	< 1	< 0.4	< 0.4	< 0.4	<0.4	*480*	*96*
Total Xylenes	40	13	2	17	**4,950**	< 2	1	0.9	< 10	< 9	< 1	< 0.6	< 0.6	< 0.6	0.86	*10,000*	*1,000*

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	35
TOC Elevation (feet):	1146.45
Date Installed:	25-Sep-97
Screen Length (feet):	10

TABLE 1 (page 4 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-8													*NR 140 Remedial Action Limits*	
Date	Oct-97	Jun-98	Dec-98	Nov-99	Jun-02	Dec-04	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	1115.16	1115.37	1115.77	1116.05	1115.12		
ANALYTE														*ES*	*PAL*
VOCs/PVOCs (ppb)															
Benzene	***2,700***	***170***	***510***	***860***	***81***	**4.9**	**0.74**	**1.6**	< 0.1	< 0.3	< 0.3	**2.2**	<0.3	*5*	*0.5*
1,2-Dichloroethylene (cis)	5.6	---	---	---	---	---	---	---	0.22	---	---	---	---	*70*	*7*
Ethylbenzene	270	93	22	56	1	< 0.2	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 0.5	<0.5	*700*	*140*
MTBE	< 3	< 13	< 1	**13**	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.3	< 0.3	< 0.3	<0.3	*60*	*12*
Naphthalene	***150***	**37**	---	---	< 2	< 0.5	---	---	< 1	< 0.8	< 0.8	< 0.8	<0.8	*100*	*10*
Toluene	**460**	**220**	3	20	2	< 0.1	< 0.2	< 0.2	< 0.4	< 0.3	< 0.3	< 0.3	<0.3	*1,000*	*200*
Trichloroethene	***130***	---	---	---	---	---	---	---	***6.4***	---	---	---	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	***660***	64	1.3	9	< 2	< 0.4	< 2	< 2	< 1	< 0.4	< 0.4	< 0.4	<0.4	*480*	*96*
Total Xylenes	1,000	230	3	25	< 2	< 0.4	< 2	< 2	< 0.4	< 0.6	< 0.6	< 0.6	<0.6	*10,000*	*1,000*

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	40
TOC Elevation (feet):	1146.22
Date Installed:	25-Sep-97
Screen Length (feet):	15

TABLE 1 (page 5 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-10														NR 140 Remedial Action Limits	
Date	Jun-98	Dec-98	Nov-99	Mar-00	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	---	1115.22	1115.47	1115.62	1116.14	---		
ANALYTE															*ES*	*PAL*
VOCs/PVOCs (ppb)																
Benzene	***690***	***2,000***	***2,700***	***1,170***	***560***	***610***	***1,900***	***370***	***2,100***	**0.9**	**1.7**	0.5	***15***	---	*5*	*0.5*
1,2-Dichloroethane	---	---	---	---	---	---	---	---	---	0.47	---	---	---	---	*5*	*0.5*
Ethylbenzene	**180**	**210**	**300**	**179**	66	14	80	4	110	0.13	< 0.5	< 0.5	2.5	---	*700*	*140*
MTBE	**51**	***74***	***61***	**50**	**15**	**23**	< 10	**22**	***65***	1.22	2.3	< 0.3	1.2	---	*60*	*12*
Naphthalene	**37**	---	---	---	**15**	4	**44**	< 6	**92**	< 1	< 0.8	< 0.8	< 0.8	---	*100*	*10*
Toluene	**220**	**320**	**560**	**293**	14	8	14	8	19	0.72	14	13	94	---	*1,000*	*200*
1,2,4- & 1,3,5-TMB	64	89	**125**	78	30	4	4	< 6	21	0.26	< 0.4	< 0.4	< 0.4	---	*480*	*96*
Total Xylenes	230	310	500	293	63	22	26	< 10	93	0.16	< 0.6	< 0.6	5	---	*10,000*	*1,000*

Well Depth (feet):	38
TOC Elevation (feet):	1147.07
Date Installed:	21-Apr-98
Screen Length (feet):	10

ND = Not Detected

--- = not analyzed or no standard MW-10-PVC was broken and frozen-No Sample Taken on 2/11/09.

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

TABLE 1 (page 6 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-13													NR 140 Remedial Action Limits	
Date	Jun-98	Dec-98	Nov-99	Mar-00	Jun-02	Dec-04	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	1115.09	1115.29	1115.44	1115.97	1115.14		
ANALYTE														*ES*	*PAL*
VOCs/PVOCs (ppb)															
Benzene	***56***	***22***	**2.8**	***8.5***	***8.6***	**0.52**	**1.7**	**1.3**	0.46	**2.4**	**0.8**	**1**	**1.23**	*5*	*0.5*
1,2-Dichloroethane	---	---	---	---	---	---	---	---	0.18	---	---	---	---	*5*	*0.5*
1,2-Dichloroethylene (cis)	**15**	---	---	---	---	---	---	---	1.1	---	---	---	---	*70*	*7*
Ethylbenzene	< 0.25	< 0.25	< 0.25	2	< 0.25	< 0.25	< 0.25	< 0.25	0.1	< 0.5	< 0.5	< 0.5	<0.5	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	0.16	---	---	---	---	---	---
MTBE	< 3	< 1	3.7	10	< 1	0.3	< 1	< 1	2.02	3	2	0.7	1.53	*60*	*12*
Naphthalene	< 1	---	---	---	---	< 1	---	< 1	< 1	< 0.8	< 0.8	< 0.8	<0.8	*100*	*10*
1,1,1,2-Tetrachloroethane	---	---	---	---	---	---	---	---	0.12	---	---	---	---	*70*	*7*
Toluene	< 1	< 1	< 1	3	1	< 1	< 1	< 1	< 0.4	< 0.3	< 0.3	0.6	0.959	*1,000*	*200*
Trichloroethene	***420***	---	---	---	---	---	---	---	***22.4***	---	---	---	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	< 2	< 1	< 2	< 2	< 2	< 1	< 1	< 2	1.16	< 0.4	< 0.4	< 0.4	<0.4	*480*	*96*
Total Xylenes	< 3	2	< 2	3	< 2	< 1	< 1	< 2	0.13	<0 .6	<0 .6	1	<0.6	*10,000*	*1,000*

Well Depth (feet): 42
TOC Elevation (feet): 1150.74
Date Installed: 22-Apr-98
Screen Length (feet): 10

ND = Not Detected
--- = not analyzed or no standard
MTBE = methyl-tert-butylether
TMB = trimethylbenzene
Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.
Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

TABLE 1 (page 7 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-14													*NR 140 Remedial Action Limits*	
Date	Jun-98	Dec-98	Nov-99	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	—	—	—	—	—	—	—	—	1115.18	1115.37	1115.49	1116.10	1115.23		
ANALYTE														*ES*	*PAL*
VOCs/PVOCs (ppb)															
Benzene	***490***	***570***	***400***	***490***	***110***	***88***	***97***	***95***	***23***	***21***	***44***	***124***	***80.3***	*5*	*0.5*
1,2-Dichloroethylene (cis)	**29**	—	—	—	—	—	—	—	**7.56**	—	—	—	—	*70*	*7*
Ethylbenzene	17	84	15	45	4	1	1	1	< 0.5	< 0.5	< 3	7	1.58	*700*	*140*
Isopropylbenzene	—	—	—	—	—	—	—	—	2.32	—	—	—	—	—	—
MTBE	< 3	< 1	< 1	< 5	24	< 1	< 1	< 1	< 0.5	< 0.3	< 2	< 0.3	17.4	*60*	*12*
Naphthalene	< 1	—	—	—	< 3	—	—	—	< 5	2	< 4	5.4	<0.8	*100*	*10*
Toluene	8	170	14	12	3	3	4	4	< 2	< 1	< 2	3	6.87	*1,000*	*200*
Trichloroethene	***26***	—	—	—	—	—	—	—	***38.6***	—	—	—	—	*5*	*0.5*
1,2,4- & 1,3,5-TMB	6	71	6	< 51	3	< 1	1	2	1.1	< 1	< 2	7	2.25	*480*	*96*
Total Xylenes	4	170	9	53	< 2	1	< 2	< 2	< 2	< 0.6	< 3	6	1.50	*10,000*	*1,000*

ND = Not Detected
— = not analyzed or no standard
MTBE = methyl-tert-butylether
TMB = trimethylbenzene
Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.
Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	38
TOC Elevation (feet):	1145.73
Date Installed:	23-Apr-98
Screen Length (feet):	10

TABLE 1 (page 8 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-15													NR 140 Remedial Action Limits	
Date	Jun-98	Dec-98	Nov-99	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	1115.18	1115.33	1115.51	1116.12	1115.31		
ANALYTE														*ES*	*PAL*
VOCs/PVOCs (ppb)															
Benzene	***1,000***	***580***	***160***	***12***	***17***	***9.6***	**3**	**2.2**	**0.94**	**1.05**	**1.3**	**1.2**	<0.3	*5*	*0.5*
1,2-Dichloroethylene (cis)	< 5	---	---	---	---	---	---	---	1.04	---	---	---	---	*70*	*7*
Ethylbenzene	**380**	86	55	1	1	1	< 1	< 1	< 0.5	< 0.5	< 0.5	0.6	<0.5	*700*	*140*
MTBE	< 5	< 1	7	< 1	< 1	< 1	< 1	2	< 0.5	< 0.3	< 0.3	< 0.3	<0.3	*60*	*12*
Naphthalene	**72**	---	---	< 2	< 1	---	---	---	< 5	6	< 0.8	< 0.8	<0.8	*100*	*10*
Toluene	**980**	170	130	3	< 1	< 1	< 1	< 1	< 2	< 0.3	< 0.3	0.6	<0.3	*1,000*	*200*
Trichloroethene	***560***	---	---	---	---	---	---	---	***40.4***	---	---	---	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	**470**	74	51	< 2	< 1	< 1	< 2	< 2	1.09	5	< 2	< 0.4	<0.4	*480*	*96*
Total Xylenes	1,000	170	138	< 2	< 1	1	< 2	< 2	< 2	< 1	< 0.6	< 0.6	<0.6	*10,000*	*1,000*

ND = Not Detected
--- = not analyzed or no standard
MTBE = methyl-tert-butylether
TMB = trimethylbenzene
Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.
Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	40
TOC Elevation (feet):	1147.35
Date Installed:	23-Apr-98
Screen Length (feet):	10

TABLE 1 (page 9 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-20									NR 140 Remedial Action Limits	
Date	Dec-98	Nov-99	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	1115.13	1115.18		
ANALYTE										*ES*	*PAL*
VOCs/PVOCs (ppb)											
Benzene	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.1	<0.3	*5*	*0.5*
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.14	<0.5	*700*	*140*
MTBE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.1	<0.3	*60*	*12*
Naphthalene	< 1	---	---	< 1	---	---	---	< 1	<0.8	*100*	*10*
Toluene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	<0.3	*1,000*	*200*
Trichloroethene	---	---	---	---	---	---	---	**0.92**	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.93	<0.4	*480*	*96*
Total Xylenes	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.55	<0.6	*10,000*	*1,000*

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	35
TOC Elevation (feet):	1145.48
Date Installed:	28-Oct-98
Screen Length (feet):	15

TABLE 1 (page 10 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-21										NR 140 Remedial Action Limits	
Date	Dec-98	Nov-99	Mar-00	Jun-02	Dec-04	Mar-05	Jun-05	Sep-05	Mar-07	Feb-09		
Relative Elevation (ft)	---	---	---	---	---	---	---	---	1115.09	1115.25		
ANALYTE											*ES*	*PAL*
VOCs/PVOCs (ppb)												
Benzene	**2.4**	**3.2**	**2.63**	**3.5**	**0.26**	**0.7**	**0.95**	***55***	0.4	<0.3	*5*	*0.5*
Butylbenzene	---	---	---	---	---	---	---	---	0.55	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---	---	**1.25**	---	*5*	*0.5*
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	<0.5	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	0.6	---	---	---
MTBE	< 1	9	7	9	< 1	< 1	2	5	4.84	0.939	*60*	*12*
Naphthalene	< 1	---	---	---	< 1	---	---	---	< 1	<0.8	*100*	*10*
Toluene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	<0.3	*1,000*	*200*
Trichloroethene	---	---	---	---	---	---	---	---	**2.3**	---	*5*	*0.5*
1,2,4- & 1,3,5-TMB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.62	<0.4	*480*	*96*
Total Xylenes	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.4	<0.6	*10,000*	*1,000*

ND = Not Detected

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	40
TOC Elevation (feet):	1152.51
Date Installed:	28-Oct-98
Screen Length (feet):	15

TABLE 1 (page 11 of 11)
ANALYTICAL RESULTS - GROUNDWATER
GOFFIN OIL SITE, LADYSMITH, WISCONSIN

	MW-30					NR 140 Remedial Action Limits	
Date	Mar-07	Jun-07	Sep-07	Dec-07	Feb-09		
Relative Elevation (ft)	1115.06	1113.30	1115.49	1115.66	---		
ANALYTE						*ES*	*PAL*
VOCs/PVOCs (ppb)							
Benzene	***269***	***173***	***208***	***101***	***87.9***	*5*	*0.5*
2-Chlorotoluene	24.1	---	---	---	---	---	---
1,2-Dichloroethylene (cis)	**17.4**	---	---	---	---	*70*	*7*
Ethylbenzene	**193**	134	**221**	**689**	**154**	*700*	*140*
Isopropylbenzene	40	---	---	---	---	---	---
4-Isopropyltoluene	14	---	---	---	---	---	---
MTBE	< 5	< 6	< 3	< 6	**26.6**	*60*	*12*
Naphthalene	***166***	***192***	***259***	***2,950***	***253***	*100*	*10*
Toluene	31.2	24	31	57	47.3	*1,000*	*200*
1,2,4- & 1,3,5-TMB	**363**	**356**	***494***	***9,610***	***898***	*480*	*96*
Total Xylenes	634	337	531	**7,454**	574	*10,000*	*1,000*

ND = Not Detected
--- = not analyzed or no standard
MTBE = methyl-tert-butylether
TMB = trimethylbenzene
Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.
Bold numbers indicate concentrations above the PAL outlined in NR 140.10.
No water level measurement taken 2/11/09 - Free Product in well.

Well Depth (feet):	35
TOC Elevation (feet):	1144.61
Date Installed:	2-Feb-07
Screen Length (feet):	10

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD TRACK
- PUMP ISLAND
- MW-4 — MONITORING WELL LOCATION AND NUMBER
- 1115.09 — MEASURED GROUNDWATER ELEVATION, in ft msl
- B — BENZENE, in parts per billion
- N — NAPHTHALENE, in parts per billion
- NS — NOT SAMPLED
- 1115.20 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION

NOTES

1. BASE MAP DEVELOPED FROM A DRAWING BY NORTHERN ENVIRONMENTAL, TITLED "SITE LAYOUT, SOIL BORING MONITORING WELL AND TANK LOCATIONS," DATED NOVEMBER, 2005.

north

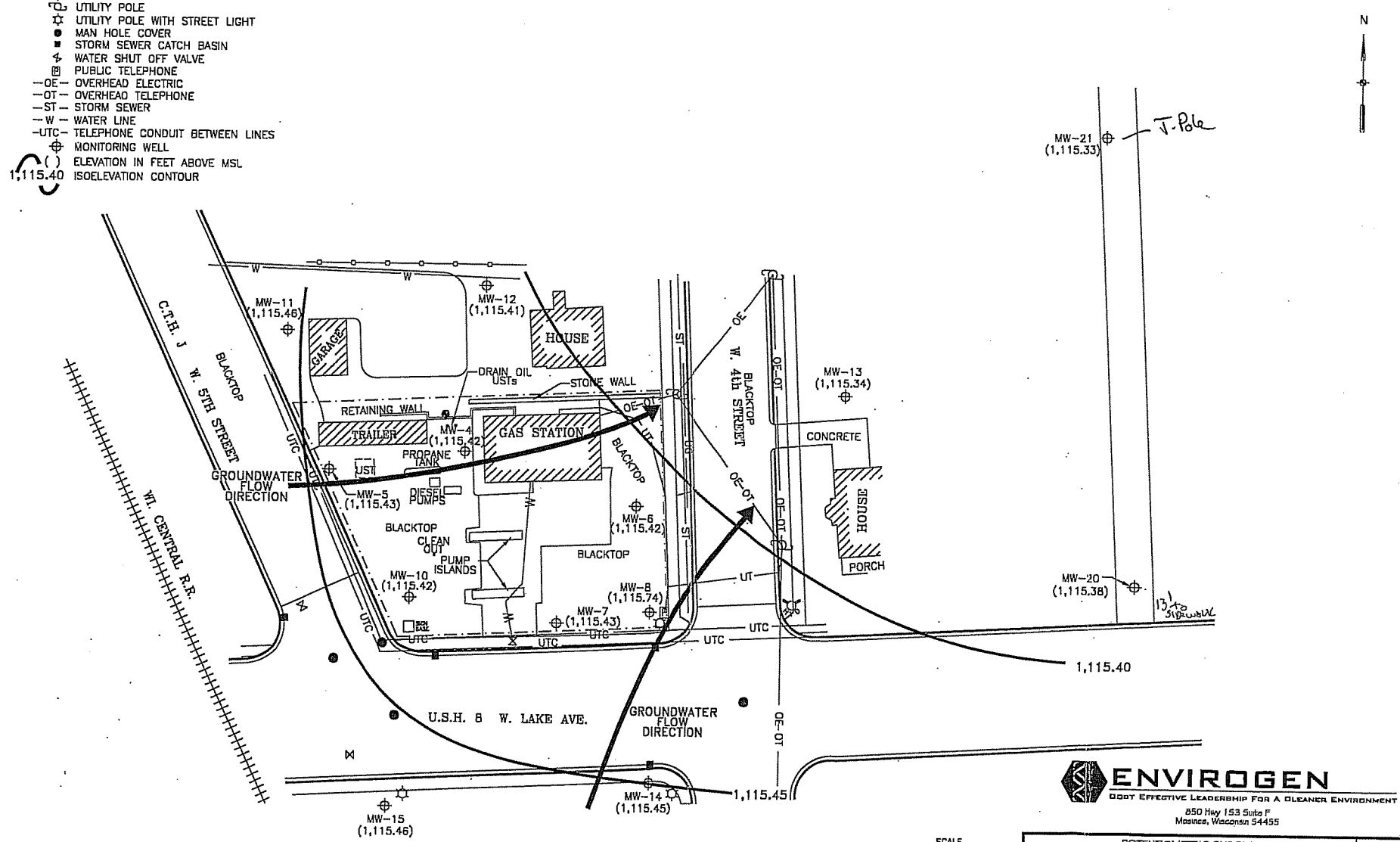
0 20 40

1 INCH = APPROX. 40 FEET

PROJECT# 57332750-BIE
DATE: 6/29/09
REV. BY: MN
SCALE: 1" = 30'

EXTENT OF BENZENE ABOVE ANES IN GROUNDWATER AS OF FEBRUARY 2009

TETRA TECH



ENVIROGEN
Boot Effective Leadership For A Cleaner Environment
850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

DRAWING NO.	97.257R9
DRAWN BY:	RRT
	3/02/99
CHECKED BY:	DAK
APPROVED BY:	VIL
REVISIONS:	
ENGINEER	DATE
ENGINEER	DATE

POTENTIOMETRIC SURFACE
(12/09/98)
GOFFIN OIL COMPANY SITE
LADYSMITH, WISCONSIN

FIGURE NO. 9

GIS REGISTRY INFORMATION

SITE NAME: Ladysmith Standard Service

BRRTS #: 03-55-000232 **FID # (if appropriate):**

COMMERCE # (if appropriate): 54848-1323-12-A

CLOSURE DATE: 12/11/06

STREET ADDRESS: 112 Lake Avenue

CITY: Ladysmith

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 433853 Y= 555205

CONTAMINATED MEDIA: Groundwater ☐ Soil ☐ Both ☒

OFF-SOURCE GW CONTAMINATION >ES: ☐ Yes ☒ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): ☐ Yes ☒ No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

CONTAMINATION IN RIGHT OF WAY: ☒ Yes ☐ No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued ☒

Copy of any maintenance plan referenced in the final closure letter. ☒

Copy of (soil or land use) deed notice *if any required as a condition of closure* N/A

Copy of most recent deed, including legal description, for all affected properties ☒

Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties ☒

County Parcel ID number, *if used for county*, for all affected properties ☒

Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site. ☒

Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs. ☒

Tables of Latest Groundwater Analytical Results (no shading or cross-hatching) ☒

Tables of Latest Soil Analytical Results (no shading or cross-hatching) ☒

Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.** N/A

GW: Table of water level elevations, with sampling dates, and free product noted if present ☒

GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees) ☒

SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour ☒

Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy) ☒

RP certified statement that legal descriptions are complete and accurate ☒

Copies of off-source notification letters (if applicable) N/A

Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW) ☒

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

December 11, 2006

Mr. Jerry Wojeik
112 Lake Avenue West
Ladysmith, WI 54848

SUBJECT: Final Case Closure with Land Use Limitations or Conditions for the Ladysmith Standard, located at 112 Lake Avenue West, Ladysmith, Wisconsin 54868, WDNR BRRTS Activity #: 03-55-000232

Dear Mr. Wojeik:

On September 7, 2006, the Northern Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. In a letter dated September 19, 2006, you were notified that the Closure Committee had granted conditional closure to this case.

Based on the correspondence and data provided on December 6, 2006 (final monitoring well abandonment documentation) it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Structural impediments existing at the time of cleanup, the existing active underground storage tank system, the canopy over the pump islands and the building foundation made complete investigation and remediation of the soil contamination on this property impracticable in the area shown on the attached map (Figure 4: Area of Residual Soil Contamination prepared by REI on August 17, 2006). Pursuant to s. 292.12(2)(b), Wis. Stats., if the structural impediments on this property that are described above are

removed, the property owner shall conduct an investigation of the degree and extent of PVOC contamination. If contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly remediated in accordance with applicable statutes and rules.

Pursuant to s. 292.12(2)(a), Wis. Stats., the pavement or other impervious cap that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If

there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact William Schultz at (715) 369-4047.

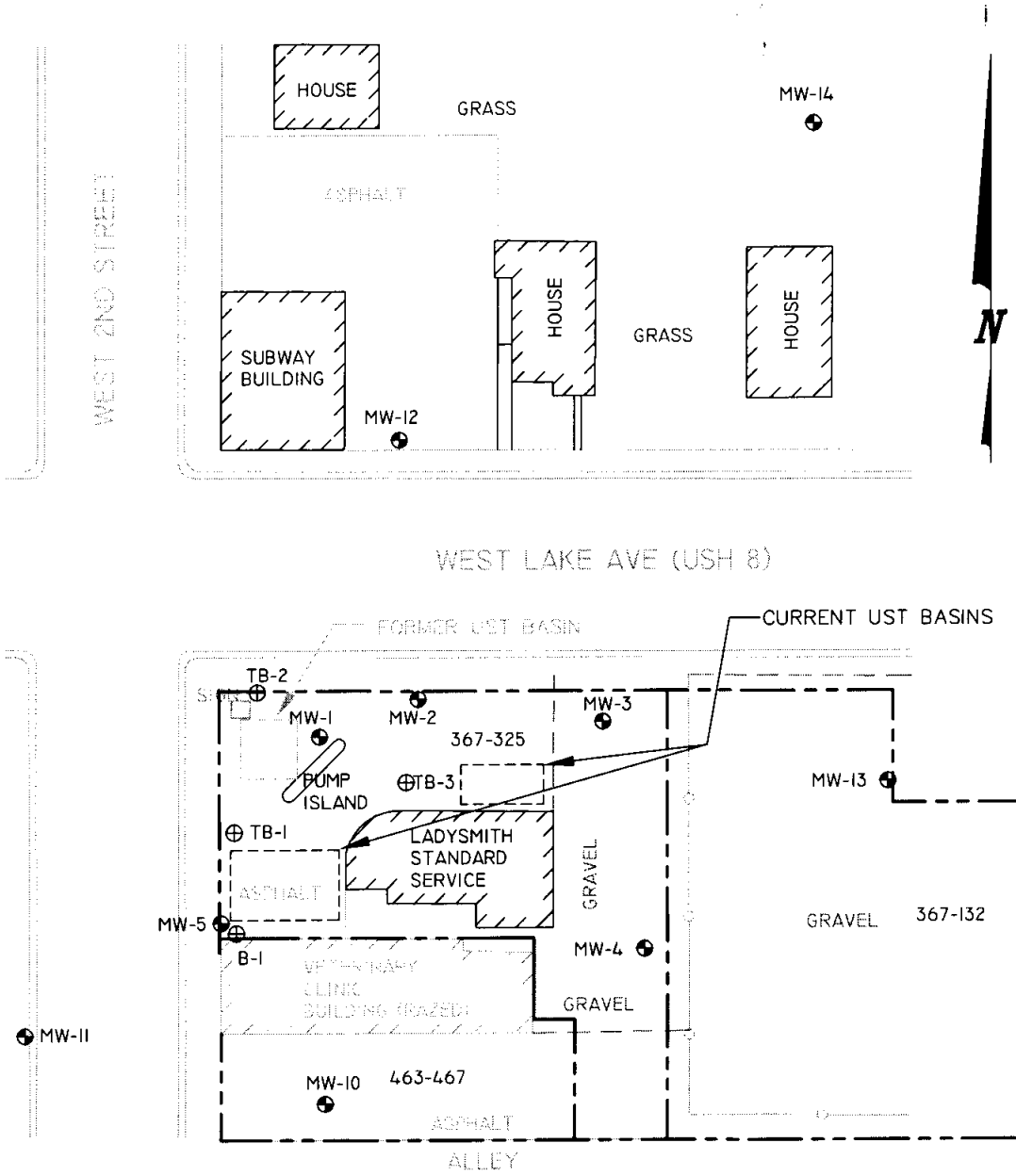
Sincerely,

John Robinson
NOR Remediation & Redevelopment Team Supervisor

Attachments:

cc: Andrew Delforge
REI Engineering
4080 N. 20th Ave.
Wausau, WI 54401

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



LEGEND

0 50

SCALE: 1" = 50'

⊕ SOIL BORING

MONITORING WELL

FENCE LINE

APPROX. PROPERTY LINE

DRAWING FILE: J:\DRAFTING\2671LADYSMITH\DWG\2671BASE.DWG LAYOUT: MODEL PLOTTED: AUG 18, 2006 - 8:16AM PLOTTED BY: MIKEH

LADYSMITH STANDARD SERVICE SITE LADYSMITH, WISCONSIN	FIGURE 2 : SITE MAP		
	PROJECT NO. 2671	DRAWN BY: MAH	DATE: 8/17/06

Table 2a
Monitoring Well MW1 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW1								
			Date	12/11/97	7/15/98	5/11/99	2/21/02	7/21/04	10/25/04	1/26/05	10/5/05	1/24/06
Parameter	**ES**	**PAL**	**Units**									
DRO	-	-	mg/L	3.8	6.7	NA	31	NA	NA	NA	NA	NA
GRO	-	-	mg/L	41	34	74	53	NA	NA	NA	NA	NA
Detected VOCs												
Benzene	5	0.5	ug/L	**6,100**	**3,900**	**4,900**	**3,800**	**1,200**	**1,500**	**1,700**	**1,700**	**1,400**
Toluene	1,000	200	ug/L	**15,000**	**9,200**	**12,000**	**8,100**	**6,300**	**5,800**	**6,500**	**6,400**	**5,000**
Ethylbenzene	700	140	ug/L	**3,300**	**2,800**	**3,900**	**4,000**	**3,000**	**2,800**	**3,100**	**3,100**	**2,600**
Xylene (total)	10,000	1,000	ug/L	**13,000**	**11,000**	**16,200**	**17,000**	**11,400**	**10,500**	**11,700**	**11,300**	**10,200**
MTBE	60	12	ug/L	<50	<66	<22	<23	<18	<18	<18	*20*	<9.0
Total Trimethylbenzenes	480	96	ug/L	**2,550**	**2,120**	**6,400**	**5,400**	**2,770**	**2,390**	**2,630**	**2,530**	**2,190**
Napthalene	40	8	ug/L	**200**	**200**	**1,300**	**670**	**320**	**330**	**340**	**320**	NA
Detected PAHs												
Acenaphthene	-	-	ug/L	<3.8	NA	NA	NA	<1.7	NA	NA	NA	NA
Acenaphthylene	-	-	ug/L	<3.6	NA	NA	NA	<1.8	NA	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.080	NA	NA	NA	<1.9	NA	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	<0.13	NA	NA	NA	<1.1	NA	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	<0.25	NA	NA	NA	<1.3	NA	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.35	NA	NA	NA	<1.2	NA	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.44	NA	NA	NA	<1.5	NA	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.24	NA	NA	NA	<1.8	NA	NA	NA	NA
Chrysene	0.2	0.02	ug/L	<0.084	NA	NA	NA	<1.3	NA	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.52	NA	NA	NA	<1.5	NA	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.23	NA	NA	NA	<2.0	NA	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.24	NA	NA	NA	<1.2	NA	NA	NA	NA
Pyrene	250	50	ug/L	<0.26	NA	NA	NA	<1.6	NA	NA	NA	NA
Naphthalene	40	8	ug/L	**330**	NA	NA	NA	**370**	NA	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	160	NA	NA	NA	130	NA	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	87	NA	NA	NA	230	NA	NA	NA	NA
Fluorene	400	80	ug/L	<0.30	NA	NA	NA	<1.6	NA	NA	NA	NA
Phenanthrene	-	-	ug/L	<0.10	NA	NA	NA	2	NA	NA	NA	NA
Inorganics												
Dissolved Lead	15	1.5	ug/L	*14*	NA	NA	*11*	**15**	*12*	*6.4*	NA	NA
Dissolved Iron	300	150	ug/L	NA	NA	**9,500**	NA	**22,000**	**20,000**	**21,000**	NA	NA
Manganese	50	25	ug/L	NA	NA	**16,000**	NA	NA	**15,000**	NA	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	NA	0.037	NA	<0.063	<0.063	<0.063	NA	NA
Sulfate	250	125	mg/L	NA	NA	1.2	NA	0.62	0.72	0.73	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2b
Monitoring Well MW2 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW2								
			Date	12/11/97	7/15/98	5/11/99	2/21/02	7/21/04	10/25/04	1/26/05	10/5/05	1/24/06
Parameter	ES	PAL	Units									
DRO	-	-	mg/L	5.3	6.8	NA	17	NA	NA	NA	NA	NA
GRO	-	-	mg/L	34	42	57	51	NA	NA	NA	NA	NA
Detected VOCs												
Benzene	5	0.5	ug/L	5,100	4,400	4,200	5,100	1,800	1,800	1,300	1,000	1,200
Toluene	1,000	200	ug/L	7,500	8,700	8,900	6,100	4,300	7,400	2,800	1,400	*960*
Ethylbenzene	700	140	ug/L	3,100	2,600	3,900	2,600	2,200	2,600	3,100	2,500	2,300
Xylene (total)	10,000	1,000	ug/L	12,000	10,000	15,000	12,000	*9,300*	11,300	12,100	*8,500*	*8,500*
MTBE	60	12	ug/L	<25	<8.0	<22	<46	<9.0	<18	<9.0	11	<9.0
Total Trimethylbenzenes	480	96	ug/L	2,630	2,460	4,690	8,000	3,690	4,360	4,690	2,530	2,060
Napthalene	40	8	ug/L	130	NA	NA	1,200	450	660	520	360	NA
PAHs												
Acenaphthylene	-	-	ug/L	<3.6	NA	NA	NA	<1.7	NA	NA	NA	NA
Acenaphthene	-	-	ug/L	<3.8	NA	NA	NA	<1.8	NA	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.080	NA	NA	NA	<1.9	NA	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	<0.13	NA	NA	NA	<1.1	NA	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	<0.25	NA	NA	NA	<1.3	NA	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.35	NA	NA	NA	<1.2	NA	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.44	NA	NA	NA	<1.5	NA	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.24	NA	NA	NA	<1.8	NA	NA	NA	NA
Chrysene	0.2	0.02	ug/L	<0.084	NA	NA	NA	<1.3	NA	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.52	NA	NA	NA	<1.5	NA	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.23	NA	NA	NA	<2.0	NA	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.24	NA	NA	NA	<1.2	NA	NA	NA	NA
Pyrene	250	50	ug/L	<0.26	NA	NA	NA	<1.6	NA	NA	NA	NA
Naphthalene	40	8	ug/L	**380**	NA	NA	NA	290	NA	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	180	NA	NA	NA	100	NA	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	89	NA	NA	NA	180	NA	NA	NA	NA
Fluorene	400	80	ug/L	<0.30	NA	NA	NA	<1.6	NA	NA	NA	NA
Phenanthrene	-	-	ug/L	<0.10	NA	NA	NA	<1.5	NA	NA	NA	NA
Inorganics												
Dissolved Lead	15	1.5	ug/L	*5.3*	NA	NA	**30**	**17**	**22**	*3.8*	NA	NA
Dissolved Iron	300	150	ug/L	NA	**8,800**	**12,000**	NA	**20,000**	**20,000**	**23,000**	NA	NA
Manganese	50	25	ug/L	NA	**11,000**	**14,000**	NA	NA	**1,400**	NA	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	<0.017	0.028	NA	<0.063	<0.063	<0.063	NA	NA
Sulfate	250	125	mg/L	NA	17	<0.62	NA	0.48	0.7	0.74	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2c
Monitoring Well MW3 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW3								
			Date	12/11/97	7/15/98	5/11/99	2/21/02	7/21/04	10/25/04	1/26/05	10/5/05	1/24/06
Parameter	**ES**	**PAL**	**Units**									
DRO	-	-	mg/L	0.46	0.48	NA	<0.1	NA	NA	NA	NA	NA
GRO	-	-	mg/L	1.6	0.67	0.34	0.25	NA	NA	NA	NA	NA
Detected VOCs												
Benzene	5	0.5	ug/L	**45**	**17**	**21**	*3.2*	0.44	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	28	20	8.8	0.71	23	1.1	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	*270*	66	21	64	*220*	8.4	70	15	30
Xylene (total)	10,000	1,000	ug/L	460	110	21.5	7.2	384	14.6	2.5	2.6	<0.74
MTBE	60	12	ug/L	<1.2	<0.16	0.35	<0.46	0.66	<0.36	<0.36	<0.36	<0.36
Total Trimethylbenzenes	480	96	ug/L	*232*	*98*	58.8	92.5	*442*	12.5	51.99	56	34
Napthalene	40	8	ug/L	*13*	NA	NA	NA	*34*	0.92	0.67	0.71	NA
Detected PAHs												
Acenaphthene	-	-	ug/L	<0.99	NA	NA	NA	0.05	NA	NA	NA	NA
Acenaphthylene	-	-	ug/L	<0.92	NA	NA	NA	0.019	NA	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.021	NA	NA	NA	<0.019	NA	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	<0.033	NA	NA	NA	<0.011	NA	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	<0.067	NA	NA	NA	<0.013	NA	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.091	NA	NA	NA	<0.012	NA	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.11	NA	NA	NA	<0.015	NA	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.063	NA	NA	NA	<0.018	NA	NA	NA	NA
Chrysene	0.2	0.02	ug/L	<0.022	NA	NA	NA	<0.013	NA	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.13	NA	NA	NA	<0.015	NA	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.059	NA	NA	NA	<0.020	NA	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.062	NA	NA	NA	<0.012	NA	NA	NA	NA
Pyrene	250	50	ug/L	<0.066	NA	NA	NA	<0.016	NA	NA	NA	NA
Naphthalene	40	8	ug/L	*27*	NA	NA	NA	*17*	NA	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	32	NA	NA	NA	8.1	NA	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	8.7	NA	NA	NA	3.9	NA	NA	NA	NA
Fluorene	400	80	ug/L	<0.077	NA	NA	NA	0.058	NA	NA	NA	NA
Phenanthrene	-	-	ug/L	<0.026	NA	NA	NA	0.037	NA	NA	NA	NA
Inorganics												
Dissolved Lead	15	1.5	ug/L	<0.89	NA	NA	NA	<3.9	<1.5	<1.5	NA	NA
Dissolved Iron	300	150	ug/L	NA	NA	**2,900**	NA	**2,000**	**3,400**	**580**	NA	NA
Manganese	50	25	ug/L	NA	NA	**7,600**	NA	NA	**3,900**	NA	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	NA	<0.017	NA	0.99	1.7	2.4	NA	NA
Sulfate	250	125	mg/L	NA	NA	24	NA	31	40	72	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2d
Monitoring Well MW4 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW4						
			Date	12/11/97	7/15/98	2/21/02	7/21/04	10/25/04	1/26/05	10/5/05
Parameter	**ES**	**PAL**	**Units**							
DRO	-	-	mg/L	<0.10	<0.10	2.8	NA	NA	NA	NA
GRO	-	-	mg/L	<0.05	<0.05	<0.1	NA	NA	NA	NA
Detected VOCs										
Benzene	5	0.5	ug/L	0.26	<0.13	<0.21	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	1.6	0.21	<0.41	<0.36	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	0.46	<0.22	<0.22	<0.40	<0.40	<0.40	<0.40
Xylene (total)	10,000	1,000	ug/L	2.5	<0.23	<0.69	<0.74	<0.74	<0.74	<0.74
MTBE	60	12	ug/L	<0.25	<0.16	<0.46	<0.36	<0.36	<0.36	<0.36
Total Trimethylbenzenes	480	96	ug/L	0.85	<0.51	<0.60	<0.4	<0.4	<0.4	<0.4
Napthalene	40	8	ug/L	<0.10	NA	NA	<0.47	<0.47	<0.47	<0.47
Detected PAHs										
Acenaphthene	-	-	ug/L	<1.0	NA	NA	<0.017	NA	NA	NA
Acenaphthylene	-	-	ug/L	<1.1	NA	NA	<0.018	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.022	NA	NA	<0.019	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	<0.036	NA	NA	<0.011	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	<0.071	NA	NA	<0.013	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.099	NA	NA	<0.012	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.12	NA	NA	<0.015	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.068	NA	NA	<0.018	NA	NA	NA
Chrysene	0.2	0.02	ug/L	<0.024	NA	NA	<0.013	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.15	NA	NA	<0.015	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.064	NA	NA	<0.020	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.067	NA	NA	<0.012	NA	NA	NA
Pyrene	250	50	ug/L	<0.072	NA	NA	<0.016	NA	NA	NA
Naphthalene	40	8	ug/L	<0.35	NA	NA	0.11	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	<0.65	NA	NA	0.026	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	<0.73	NA	NA	0.047	NA	NA	NA
Fluorene	400	80	ug/L	<0.084	NA	NA	<0.016	NA	NA	NA
Phenanthrene	-	-	ug/L	<0.028	NA	NA	<0.015	NA	NA	NA
Inorganics										
Dissolved Lead	15	1.5	ug/L	<0.89	NA	NA	<3.9	<1.5	<1.5	NA
Dissolved Iron	300	150	ug/L	NA	NA	NA	27	<17	20	NA
Manganese	50	25	ug/L	NA	NA	NA	NA	7.1	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	NA	NA	*6.2*	*6.7*	*6.7*	NA
Sulfate	250	125	mg/L	NA	NA	NA	41	56	71	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2e
Monitoring Well MW5 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW5							
			Date	12/11/97	7/15/98	5/11/99	2/21/02	7/21/04	10/25/04	10/5/05	1/24/06
Parameter	**ES**	**PAL**	**units**								
DRO	-	-	mg/L	6.9	13	NA	23	NA	NA	NA	NA
GRO	-	-	mg/L	48	62	83	100	NA	NA	NA	NA
Detected VOCs											
Benzene	5	0.5	ug/L	**8,500**	**13,000**	**12,000**	**8,200**	**7,000**	**5,300**	**5,800**	**5,900**
Toluene	1,000	200	ug/L	**20,000**	**29,000**	**28,000**	**38,000**	**28,000**	**30,000**	**21,000**	**19,000**
Ethylbenzene	700	140	ug/L	**2,800**	**3,100**	**3,100**	**4,800**	**4,400**	**4,400**	**4,000**	**4,300**
Xylene (total)	10,000	1,000	ug/L	**14,000**	**14,000**	**13,300**	**21,000**	**18,400**	**19,100**	**19,100**	**16,100**
MTBE	60	12	ug/L	<50	<330	<44	<92	<72	<90	<45	<90
Total Trimethylbenzenes	480	96	ug/L	**3,190**	**2,260**	**2,550**	**5,100**	**3,700**	**3,840**	**4,150**	**5,100**
Napthalene	40	8	ug/L	**180**	**340**	**400**	**670**	**500**	**490**	**520**	NA
Detected PAHs											
Acenaphthene	-	-	ug/L	<3.8	NA	NA	NA	0.28	NA	NA	NA
Acenaphthylene	-	-	ug/L	<3.6	NA	NA	NA	0.1	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.080	NA	NA	NA	0.094	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	<0.13	NA	NA	NA	0.025	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	<0.25	NA	NA	NA	0.017	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.35	NA	NA	NA	0.013	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.44	NA	NA	NA	0.019	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.24	NA	NA	NA	<0.018	NA	NA	NA
Chrysene	0.2	0.02	ug/L	<0.084	NA	NA	NA	0.017	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.52	NA	NA	NA	<0.015	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.23	NA	NA	NA	<0.020	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.24	NA	NA	NA	0.057	NA	NA	NA
Pyrene	250	50	ug/L	<0.26	NA	NA	NA	0.08	NA	NA	NA
Naphthalene	40	8	ug/L	**260**	NA	NA	NA	**430**	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	150	NA	NA	NA	87	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	80	NA	NA	NA	150	NA	NA	NA
Fluorene	400	80	ug/L	<0.30	NA	NA	NA	0.26	NA	NA	NA
Phenanthrene	-	-	ug/L	<0.10	NA	NA	NA	<5.1	NA	NA	NA
Inorganics											
Dissolved Lead	15	1.5	ug/L	**26**	NA	NA	**27**	*13*	**37**	NA	NA
Dissolved Iron	300	150	ug/L	NA	**5,700**	**1,800**	NA	25	**28,000**	NA	NA
Manganese	50	25	ug/L	NA	**19,000**	**11,000**	NA	NA	**7,300**	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	0.071	0.28	NA	0.21	<0.063	NA	NA
Sulfate	250	125	mg/L	NA	18	3.4	NA	1.2	3.2	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2f
Monitoring Well MW10 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW10					
			Date	7/15/98	2/21/02	07/21/04	10/25/04	01/26/05	10/05/05
Parameter	**ES**	**PAL**	**units**						
DRO	-	-	mg/L	0.33	<0.1	NA	NA	NA	NA
GRO	-	-	mg/L	<0.05	<0.1	NA	NA	NA	NA
Detected VOCs									
Benzene	5	0.5	ug/L	<0.31	<0.21	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	<0.48	<0.41	<0.36	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	<0.26	<0.22	<0.40	<0.40	<0.40	<0.40
Xylene (total)	10,000	1,000	ug/L	<1.0	<0.69	<0.74	<0.74	<0.74	<0.74
MTBE	60	12	ug/L	<0.66	<0.46	<0.36	<0.36	<0.36	<0.36
Total Trimethylbenzenes	480	96	ug/L	<0.45	<0.60	<0.40	<0.40	<0.40	<0.40
Napthalene	40	8	ug/L	<0.49	NA	<0.47	<0.47	<0.47	<0.47
Detected PAHs									
Acenaphthene	-	-	ug/L	<0.23	NA	<0.017	NA	NA	NA
Acenaphthylene	-	-	ug/L	<0.58	NA	<0.018	NA	NA	NA
Anthracene	3,000	600	ug/L	<0.019	NA	<0.019	NA	NA	NA
Benzo (a)Anthracene	-	-	ug/L	0.046	NA	<0.011	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02	ug/L	*0.050*	NA	<0.013	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02	ug/L	<0.046	NA	<0.012	NA	NA	NA
Benzo (g,h,i) Perylene	-	-	ug/L	<0.11	NA	<0.015	NA	NA	NA
Benzo (k)Fluoranthene	-	-	ug/L	<0.031	NA	<0.018	NA	NA	NA
Chrysene	0.2	0.02	ug/L	0.049	NA	<0.013	NA	NA	NA
Dibenzo(a,h) anthracene	-	-	ug/L	<0.17	NA	<0.015	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-	ug/L	<0.088	NA	<0.020	NA	NA	NA
Fluoranthene	400	80	ug/L	<0.11	NA	<0.012	NA	NA	NA
Pyrene	250	50	ug/L	0.12	NA	<0.016	NA	NA	NA
Naphthalene	40	8	ug/L	<0.23	NA	0.026	NA	NA	NA
1-Methyl naphthalene	-	-	ug/L	<0.42	NA	<0.017	NA	NA	NA
2-Methyl naphthalene	-	-	ug/L	<0.64	NA	<0.016	NA	NA	NA
Fluorene	400	80	ug/L	<0.031	NA	<0.016	NA	NA	NA
Phenanthrene	-	-	ug/L	0.11	NA	<0.015	NA	NA	NA
Inorganics									
Dissolved Lead	15	1.5	ug/L	NA	<1	<3.9	<1.5	<1.5	NA
Dissolved Iron	300	150	ug/L	NA	NA	27	23	<17	NA
Manganese	50	25	ug/L	NA	NA	NA	*47*	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	NA	*6.5*	*8.5*	*8.8*	NA
Sulfate	250	125	mg/L	NA	NA	55	110	*180*	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2g
Monitoring Well MW11 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW11						
			Date	7/15/98	2/21/02	7/21/04	10/25/04	01/26/05	10/05/05	01/24/06
Parameter	**ES**	**PAL**	**Units**							
DRO	-	-	mg/L	0.33	0.43	NA	NA	NA	NA	NA
GRO	-	-	mg/L	<0.05	0.56	NA	NA	NA	NA	NA
Detected VOCs										
Benzene	5	0.5	ug/L	<6.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	<9.6	1.7	<0.36	<0.36	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	130	2.9	1.8	<0.40	1.9	2.8	0.46
Xylene (total)	10,000	1,000	ug/L	240	2.1	1.37	<0.74	0.86	0.59	<0.74
MTBE	60	12	ug/L	<13	<0.46	0.4	<0.36	<0.36	0.54	<0.36
Total Trimethylbenzenes	480	96	ug/L	1,540	23.9	31.2	2.72	7.82	31.8	7.1
Napthalene	40	8	ug/L	*26*	0.92	1.7	<0.47	0.72	2.3	NA
Detected PAHs										
Acenaphthene	-	-		<1.1	NA	<0.014	NA	NA	NA	NA
Acenaphthylene	-	-		<2.8	NA	<0.014	NA	NA	NA	NA
Anthracene	3,000	600		<0.090	NA	<0.015	NA	NA	NA	NA
Benzo (a)Anthracene	-	-		<0.085	NA	<0.091	NA	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02		<0.14	NA	<0.011	NA	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02		<0.22	NA	<0.098	NA	NA	NA	NA
Benzo (g,h,i) Perylene	-	-		<0.50	NA	<0.12	NA	NA	NA	NA
Benzo (k)Fluoranthene	-	-		<0.14	NA	<0.014	NA	NA	NA	NA
Chrysene	0.2	0.02		<0.065	NA	<0.011	NA	NA	NA	NA
Dibenzo(a,h) anthracene	-	-		<0.80	NA	<0.012	NA	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-		<0.42	NA	<0.016	NA	NA	NA	NA
Fluoranthene	400	80		<0.50	NA	<0.098	NA	NA	NA	NA
Pyrene	250	50		<0.24	NA	<0.013	NA	NA	NA	NA
Naphthalene	40	8		*28*	*NA*	0.38	NA	NA	NA	NA
1-Methyl naphthalene	-	-		48	NA	1.4	NA	NA	NA	NA
2-Methyl naphthalene	-	-		94	NA	1.5	NA	NA	NA	NA
Fluorene	400	80		<0.14	NA	<0.013	NA	NA	NA	NA
Phenanthrene	-	-		<0.070	NA	<0.012	NA	NA	NA	NA
Inorganics										
Dissolved Lead	15	1.5	ug/L	*12*	<1	<3.9	<1.5	<1.5	NA	NA
Dissolved Iron	300	150	ug/L	**2,000**	NA	**530**	*240*	**1,700**	NA	NA
Manganese	50	25	ug/L	**5,800**	NA	NA	**1,700**	NA	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	1.8	NA	*5.6*	*4.9*	*6.6*	NA	NA
Sulfate	250	125	mg/L	27	NA	**250**	110	*140*	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2h
Monitoring Well MW12 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW12						
			Date	**7/15/98**	**5/11/99**	**2/21/02**	**7/21/04**	**10/25/04**	**01/26/05**	**10/05/05**
Parameter	**ES**	**PAL**	**Units**							
DRO	-	-	mg/L	<0.10	NA	<0.1	NA	NA	NA	NA
GRO	-	-	mg/L	<0.05	<0.05	<0.1	NA	NA	NA	NA
Detected VOCs										
Benzene	5	0.5	ug/L	<0.31	0.30	<0.21	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	<0.48	3.3	<0.41	<0.36	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	<0.26	1.1	<0.22	<0.40	<0.40	<0.40	<0.40
Xylene (total)	10,000	1,000	ug/L	<1.0	4.7	<0.69	<0.74	<0.74	<0.74	<0.74
MTBE	60	12	ug/L	<0.66	<0.22	<0.46	<0.36	<0.36	<0.36	<0.36
Total Trimethylbenzenes	480	96	ug/L	<0.45	1.0	<0.60	<0.40	<0.40	<0.40	<0.40
Napthalene	40	8	ug/L	<0.49	NA	NA	<0.47	<0.47	<0.47	<0.47
Detected PAHs										
Acenaphthene	-	-		<0.22	NA	NA	<0.017	NA	NA	NA
Acenaphthylene	-	-		<0.55	NA	NA	<0.018	NA	NA	NA
Anthracene	3,000	600		<0.018	NA	NA	<0.019	NA	NA	NA
Benzo (a)Anthracene	-	-		<0.017	NA	NA	<0.011	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02		<0.027	NA	NA	<0.013	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02		<0.043	NA	NA	<0.012	NA	NA	NA
Benzo (g,h,i) Perylene	-	-		<0.10	NA	NA	<0.015	NA	NA	NA
Benzo (k)Fluoranthene	-	-		<0.029	NA	NA	<0.018	NA	NA	NA
Chrysene	0.2	0.02		<0.013	NA	NA	<0.013	NA	NA	NA
Dibenzo(a,h) anthracene	-	-		<0.16	NA	NA	<0.015	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-		<0.083	NA	NA	<0.020	NA	NA	NA
Fluoranthene	400	80		<0.10	NA	NA	<0.012	NA	NA	NA
Pyrene	250	50		<0.047	NA	NA	<0.016	NA	NA	NA
Naphthalene	40	8		<0.22	NA	NA	0.56	NA	NA	NA
1-Methyl naphthalene	-	-		<0.40	NA	NA	0.24	NA	NA	NA
2-Methyl naphthalene	-	-		<0.60	NA	NA	0.31	NA	NA	NA
Fluorene	400	80		<0.029	NA	NA	<0.016	NA	NA	NA
Phenanthrene	-	-		<0.014	NA	NA	<0.015	NA	NA	NA
Inorganics										
Dissolved Lead	15	1.5	ug/L	NA	NA	*2.5*	<3.9	<1.5	<1.5	NA
Dissolved Iron	300	150	ug/L	NA	<47	NA	<7.5	<17	<17	NA
Manganese	50	25	ug/L	NA	**2,300**	NA	NA	5.7	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	*2.8*	NA	*4.4*	*4.1*	*4.2*	NA
Sulfate	250	125	mg/L	NA	32	NA	38	40	NA	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2i
Monitoring Well MW13 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW13				
			Date	**7/15/98**	**7/21/04**	**10/25/04**	**01/26/05**	**10/05/05**
Parameter	**ES**	**PAL**	**Units**					
DRO	-	-	mg/L	<0.10	NA	NA	NA	NA
GRO	-	-	mg/L	<0.05	NA	NA	NA	NA
Detected VOCs								
Benzene	5	0.5	ug/L	<0.31	<0.14	<0.14	<0.14	<0.14
Toluene	1,000	200	ug/L	<0.48	<0.36	<0.36	<0.36	<0.36
Ethylbenzene	700	140	ug/L	<0.26	<0.40	<0.40	<0.40	<0.40
Xylene (total)	10,000	1,000	ug/L	<1.0	<0.74	<0.74	<0.74	<0.74
MTBE	60	12	ug/L	<0.66	<0.36	<0.36	<0.36	<0.36
Total Trimethylbenzenes	480	96	ug/L	<0.45	<0.40	<0.40	<0.40	<0.40
Napthalene	40	8	ug/L	<0.49	<0.47	<0.47	<0.47	<0.47
Detected PAHs								
Acenaphthene	-	-		<0.22	<0.017	NA	NA	NA
Acenaphthylene	-	-		<0.55	<0.018	NA	NA	NA
Anthracene	3,000	600		<0.018	<0.019	NA	NA	NA
Benzo (a)Anthracene	-	-		<0.017	<0.011	NA	NA	NA
Benzo (a)Pyrene	0.2	0.02		<0.027	<0.013	NA	NA	NA
Benzo (b)Fluoranthene	0.2	0.02		<0.043	<0.012	NA	NA	NA
Benzo (g,h,i) Perylene	-	-		<0.10	<0.015	NA	NA	NA
Benzo (k)Fluoranthene	-	-		<0.029	<0.018	NA	NA	NA
Chrysene	0.2	0.02		<0.013	<0.013	NA	NA	NA
Dibenzo(a,h) anthracene	-	-		<0.16	<0.015	NA	NA	NA
Indeno (1,2,3,-cd) Pyrene	-	-		<0.083	<0.020	NA	NA	NA
Fluoranthene	400	80		<0.10	<0.012	NA	NA	NA
Pyrene	250	50		<0.047	<0.016	NA	NA	NA
Naphthalene	40	8		<0.22	0.16	NA	NA	NA
1-Methyl naphthalene	-	-		<0.40	0.069	NA	NA	NA
2-Methyl naphthalene	-	-		<0.60	0.1	NA	NA	NA
Fluorene	400	80		<0.029	<0.016	NA	NA	NA
Phenanthrene	-	-		<0.014	<0.015	NA	NA	NA
Inorganics								
Dissolved Lead	15	1.5	ug/L	NA	<3.9	<1.5	<1.5	NA
Dissolved Iron	300	150	ug/L	NA	<7.5	<17	<17	NA
Manganese	50	25	ug/L	NA	NA	6.0	NA	NA
Nitrate, NO3+NO2	10	2	mg/L	NA	*6.8*	*7.8*	*8.3*	NA
Sulfate	250	125	mg/L	NA	42	56	92	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 2j
Monitoring Well MW14 Groundwater Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

				MW14	
			Date	**7/15/98**	**2/21/02**
Parameter	**ES**	**PAL**	**Units**		
DRO	-	-	mg/L	<0.10	<0.10
GRO	-	-	mg/L	<0.05	<0.10
Detected VOCs					
Benzene	5	0.5	ug/L	<0.31	<0.21
Toluene	1,000	200	ug/L	<0.48	<0.41
Ethylbenzene	700	140	ug/L	<0.26	<0.22
Xylene (total)	10,000	1,000	ug/L	<1.0	<0.69
MTBE	60	12	ug/L	<0.66	<0.46
Total Trimethylbenzenes	480	96	ug/L	<0.45	<0.60
Napthalene	40	8	ug/L	<0.49	NA
Detected PAHs					
Acenaphthene	-	-		<0.22	NA
Acenaphthylene	-	-		<0.56	NA
Anthracene	3,000	600		<0.018	NA
Benzo (a)Anthracene	-	-		<0.017	NA
Benzo (a)Pyrene	0.2	0.02		<0.027	NA
Benzo (b)Fluoranthene	0.2	0.02		<0.044	NA
Benzo (g,h,i) Perylene	-	-		<0.10	NA
Benzo (k)Fluoranthene	-	-		<0.030	NA
Chrysene	0.2	0.02		<0.013	NA
Dibenzo(a,h) anthracene	-	-		<0.16	NA
Indeno (1,2,3,-cd) Pyrene	-	-		<0.085	NA
Fluoranthene	400	80		<0.10	NA
Pyrene	250	50		<0.048	NA
Naphthalene	40	8		<0.22	NA
1-Methyl naphthalene	-	-		<0.41	NA
2-Methyl naphthalene	-	-		<0.61	NA
Fluorene	400	80		<0.030	NA
Phenanthrene	-	-		<0.014	NA
Inorganics					
Dissolved Lead	15	1.5	ug/L	<0.089	NA
Dissolved Iron	300	150	ug/L	*230*	NA
Manganese	50	25	ug/L	**2,700**	NA
Nitrate, NO3+NO2	10	2	mg/L	1.9	NA
Sulfate	250	125	mg/L	51	NA

Notes:

All values report in µg/L (ppb). Unless otherwise noted.
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
X = Not Detected
NA= Not Analyzed
ES exceeded **bold**
PAL exceeded *italic*

Table 1a
Soil Boring Analytical Results
Ladysmith Standard Service Site
Ladysmith, WI

			Date-->	11/11/97	11/11/97	11/12/97	11/12/97	11/12/97	11/11/97	11/11/97	11/11/97	11/12/97	11/13/97	11/13/97	11/13/97
			Sample-->	TB-1	TB-1	TB-2	TB-3	TB-3	MW-1	MW-1	MW-1	MW-2	MW-3	MW-4	MW-5
			Sample Depth--(Feet)>	28-30	40-41	28-30	28-30	40-41	15-17	28-30	37-39	28-30	28-30	28-30	12-14
Detected PVOC's (ug/kg)	RCL	Table 1	Table 2												
Benzene	5.5	8,500	1,100	**34**	<25	<25	<25	<25	<25	**140**	**420**	<25	<25	<25	**28,000**
Ethylbenzene	2,900	4,600	NS	150	69	<25	<25	<25	54	**5,500**	**1,400**	<25	<25	57	**120,000**
Toluene	1,500	38,000	NS	280	220	26	31	<25	94	**5,800**	**2,800**	<25	37	240	**380,000**
Xylenes (Total)	4,100	42,000	NS	890	308	28	149	<50	330	**28,500**	**5,700**	33	<50	218	**500,000**
Methly tert Butyl Ether	NS	NS	NS	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<1300
1,2,4-Trimethylbenzene	NS	83,000	NS	1,300	140	<25	310	<25	420	23,000	3,000	<25	<25	40	210,000
1,3,5-Trimethylbenzene	NS	11,000	NS	370	41	<25	89	<25	120	7,000	900	<25	<25	<25	62,000
1,2 -Dichloroethane	NS	8,500	540	<25	<25	<25	<25	<25	<25	<25	<100	<25	<25	<25	<1300
Naphthalene	400	2,700	NS	**470**	<25	<25	170	<25	100	**2,400**	250	<25	<25	<25	**15,000**
PAH's (ug/kg)															
1-Methyl Naphthalene	23,000	NS	NS	49	NA	NA	<16	NA	NA	250	NA	NA	NA	NA	4,500
2-Methyl Naphthalene	20,000	NS	NS	72	NA	NA	<15	NA	NA	410	NA	NA	NA	NA	8,100
Phenanthrene	1,800	NS	NS	<14	NA	NA	<15	NA	NA	26	NA	NA	NA	NA	<150
GRO (mg/kg)	100	NS	NS	27	<2.9	<2.6	6.7	<2.7	11	**400**	53	<2.6	<2.6	<2.6	**4,700**
DRO (mg/kg)	100	NS	NS	7.5	<4.1	<3.9	<4.3	<4.1	11	**110**	<4.3	<4.3	<4.2	17	**510**
Lead (mg/kg)	50	NS	NS	<3.3	5.1	<3.0	<3.3	<3.5	<3.1	<3.4	<3.8	<3.1	<3.4	21	11

			Date-->	11/13/97	11/13/97	6/10/98	6/10/98	6/11/98	6/11/98	6/12/98	10/6/05	10/6/05	10/6/05	10/6/05	10/6/05
			Sample-->	MW-5	MW-5	MW-10	MW-11	MW-12	MW-13	MW-14	B-1	B-1	B-1	B-1	B-1
			Sample Depth--(Feet)>	28-30	35-36	27-29	27-29	27-29	27-29	30-32	2.5-4.5	10-12	12-17	23-25	27-29
Detected PVOC's (ug/kg)	RCL	Table 1	Table 2												
Benzene	5.5	8,500	1,100	**5,600**	99	<27	<31	<26	<26	<27	<25	<62	<25	<200	<25
Ethylbenzene	2,900	4,600	NS	**9,900**	610	<27	<31	<26	<26	<27	<25	**5,800**	65	**26,000**	<25
Toluene	1,500	38,000	NS	**32,000**	1,000	<27	<31	<26	<26	<27	<25	1,400	<25	**5,400**	<25
Xylenes (Total)	4,100	42,000	NS	**42,000**	2,310	<37	72	<37	<78	81	<75	**41,000**	65	**95,000**	<75
Methly tert Butyl Ether	NS	NS	NS	<100	460	<27	<31	<26	<26	<27	<25	<62	<25	<200	<25
1,2,4-Trimethylbenzene	NS	83,000	NS	19,000	1,400	<27	318	34	<26	<27	<25	53,000	270	48,000	<25
1,3,5-Trimethylbenzene	NS	11,000	NS	5,400	560	<27	100	<26	<26	<27	<25	22,000	530	19,000	<25
1,2 -Dichloroethane	NS	8,500	540	<100	NA	<27	<31	<26	NA	NA	NA	NA	NA	NA	NA
Naphthalene	400	2,700	NS	**1,500**	NA	<27	55	<26	<26	<27	NA	NA	NA	NA	NA
PAH's (ug/kg)															
1-Methyl Naphthalene	23,000	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl Naphthalene	20,000	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,800	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO (mg/kg)	100	NS	NS	**300**	39	<5.3	10	<5.2	<5.2	<5.4	NA	NA	NA	NA	NA
DRO (mg/kg)	100	NS	NS	39	12	<5.3	<5.3	17	<5.2	<5.4	NA	NA	NA	NA	NA
Lead (mg/kg)	50	NS	NS	<3.8	NA	10	<4.2	10	<4.1	<4.3	NA	NA	NA	NA	NA

Notes:

RCL - NR 720 Soil Residual Contaminant Level
RCL for PAHs - "suggested" NR 720 Groundwater Pathway Standard
Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores
Table 2 - Direct Contact Standard
< - Concentration below listed laboratory detection limit
RCL exceedences are shaded
PVOCs - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Compounds
NS - No Standard

Bold - Exceeds RCL

Outline =- Exceeds Table 1
Italic - Exceeds Table 2

Table 1b
Summary of Soil Performance Testing - Site Specific Residual Contaminant Levels
Ladysmith Standard Service
Ladysmith, WI

CSS#1 @ 12-17	Proposed Cleanup Levels	
Parameter	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/kg
Benzene	6	63
Ethylbenzene	3,370	16,852
Toluene	1,471	7,353
Xylenes (mixed isomers)	8,779	87,786
Methyl tert-Butyl Ether (MTBE)	100	500
1,2,4-Trimethylbenzenes	5,400	27,000
1,3,5-Trimethylbenzenes	12,410	62,049
CSS#1 @ 10-12	**Proposed Cleanup Levels**	
Parameter	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/kg
Benzene	16	155
Ethylbenzene	300,741	1,503,704
Toluene	82,353	411,765
Xylenes (mixed isomers)	836,735	8,367,347
Methyl tert-Butyl Ether (MTBE)	248	1,240
1,2,4-Trimethylbenzenes	77,091	385,455
1,3,5-Trimethylbenzenes	29,333	146,667
CSS#1 @ 23-25	**Proposed Cleanup Levels**	
Parameter	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/kg
Benzene	34.48	344.83
Ethylbenzene	6,385.96	31,929.82
Toluene	9,818.18	49,090.91
Xylenes (mixed isomers)	43,577.98	435,779.82
Methyl tert-Butyl Ether (MTBE)	800.00	4,000.00
1,2,4-Trimethylbenzenes	5,984.42	29,922.08
1,3,5-Trimethylbenzenes	8,290.91	41,454.55

Geometric Mean Values	SSRCL - PAL	SSRCL - ES
	µg/kg	µg/kg
Benzene	19	187
Ethylbenzene	103,499	517,495
Toluene	31,214	156,070
Xylenes (mixed isomers)	296,364	2,963,638
Methyl tert-Butyl Ether (MTBE)	383	1,913
1,2,4-Trimethylbenzenes	29,492	147,459
1,3,5-Trimethylbenzenes	16,678	83,390

Summary of Soil Performance Testing
CSS#1 @ 10-12
Jerry's Auto
Ladysmith, WI

CSS#1 @ 10-12	State of Wisconsin Default Values			Soil Performance Testing Results		Proposed Cleanup Levels	
Parameter	**RCL**	**ES**	**PAL**	**PVOC Concentration**	**SPLP Concentration**	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/l	µg/l	µg/kg	µg/l	µg/kg	µg/kg
Benzene	5.5	5	0.5	**62**	**2**	16	155
Ethylbenzene	2,900	700	140	5,800	**2.7**	300,741	1,503,704
Toluene	1,500	1,000	200	1,400	**3.4**	82,353	411,765
Xylenes (mixed isomers)	4,100	10,000	1,000	41,000	49	836,735	8,367,347
Methyl tert-Butyl Ether (MTBE)	None	60	12	**62**	**3**	248	1,240
1,2,4-Trimethylbenzenes	None	480	96	53,000	66	77,091	385,455
1,3,5-Trimethylbenzenes	None	480	96	22,000	72	29,333	146,667

Notes:
Concentrations reported at detection limit. **BOLD**

C:\Documents and Settings\kazdaj\Local Settings\Temporary Internet Files\OLKAF\[2671Ct1b.xls]CSS#1 @ 10-12

Summary of Soil Performance Testing
CSS#1 @ 12-17
Jerry's Auto
Ladysmith, WI

CSS#1 @ 12-17	State of Wisconsin Default Values			Soil Performance Testing Results		Proposed Cleanup Levels	
Parameter	**RCL**	**ES**	**PAL**	**PVOC Concentration**	**SPLP Concentration**	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/l	µg/l	µg/kg	µg/l	µg/kg	µg/kg
Benzene	5.5	5	0.5	**25**	**2**	6	63
Ethylbenzene	2,900	700	140	65	**2.7**	3,370	16,852
Toluene	1,500	1,000	200	**25**	**3.4**	1,471	7,353
Xylenes (mixed isomers)	4,100	10,000	1,000	115	**13.1**	8,779	87,786
Methyl tert-Butyl Ether (MTBE)	None	60	12	**25**	**3**	100	500
1,2,4-Trimethylbenzenes	None	480	96	270	**4.8**	5,400	27,000
1,3,5-Trimethylbenzenes	None	480	96	530	**4.1**	12,410	62,049

Notes:
Concentrations reported at detection limit. **BOLD**

C:\Documents and Settings\kazdaj\Local Settings\Temporary Internet Files\OLKAF\[2671Ct1b.xls]CSS#1 @12-17

Summary of Soil Performance Testing
CSS#1 @ 23-25
Jerry's Auto
Ladysmith, WI

CSS#1 @ 23-25	State of Wisconsin Default Values			Soil Performance Testing Results		Proposed Cleanup Levels	
Parameter	**RCL**	**ES**	**PAL**	**PVOC Concentration**	**SPLP Concentration**	**SSRCL - PAL**	**SSRCL - ES**
Units	µg/kg	µg/l	µg/l	µg/kg	µg/l	µg/kg	µg/kg
Benzene	5.5	5	0.5	**200**	2.9	34	345
Ethylbenzene	2,900	700	140	26,000	570.0	6,386	31,930
Toluene	1,500	1,000	200	5,400	110.0	9,818	49,091
Xylenes (mixed isomers)	4,100	10,000	1,000	95,000	2,180	43,578	435,780
Methyl tert-Butyl Ether (MTBE)	None	60	12	**200**	**3**	800	4,000
1,2,4-Trimethylbenzenes	None	480	96	48,000	770	5,984	29,922
1,3,5-Trimethylbenzenes	None	480	96	19,000	220	8,291	41,455

Notes:
Concentrations reported at detection limit. **BOLD**

C:\Documents and Settings\kazdaj\Local Settings\Temporary Internet Files\OLKAF\[2671Ct1b.xls]CSS#1 @ 23-25

Table 3
Groundwater Elevation Data
Ladysmith Standard Service Site
Ladysmith, WI

Well	MW1	MW2	MW3	MW4	MW5	MW10	MW11	MW12	MW13	MW14
TOC Elevation	996.40	996.38	996.71	996.53	994.85	994.79	994.27	996.51	996.83	999.43
Top of Screen Elevation	974.90	974.70	975.00	974.90	975.20	972.10	972.70	972.90	974.10	964.60
Depth of well	37.00	40.00	37.00	37.00	35.00	38.00	39.00	30.80	30.80	45.00
Depth to Water (from TOC)										
12/11/1997	30.37	30.36	30.75	30.52	28.78	NI	NI	NI	NI	NI
7/15/1998	30.23	30.23	30.61	30.39	28.66	28.54	28.12	31.49	30.75	33.70
7/21/2004	29.40	29.40	29.80	29.55	NM	27.71	27.22	29.66	29.95	NM
10/25/2004	30.11	30.11	30.48	30.25	NM	28.44	27.97	30.36	30.62	NM
1/26/2005	30.50	30.48	30.87	30.64	NM	28.87	28.40	30.73	31.00	NM
10/6/2005	30.51	30.42	30.88	30.67	NM	28.86	28.41	30.71	31.00	NM
1/24/2006	NM	30.37	30.74	NM	28.85	NM	NM	NM	NM	NM
Water Elevation										
12/11/1997	966.03	966.02	965.96	966.01	966.07	NI	NI	NI	NI	NI
7/15/1998	966.17	966.15	966.10	966.14	966.19	966.25	966.15	965.02	966.08	965.73
7/21/2004	967.00	966.98	966.91	966.98	NM	967.08	967.05	966.85	966.88	NM
10/25/2004	966.29	966.27	966.23	966.28	NM	966.35	966.30	966.15	966.21	NM
1/26/2005	965.90	965.90	965.84	965.89	NM	965.92	965.87	965.78	965.83	NM
10/6/2005	965.89	965.96	965.83	965.86	NM	965.93	965.86	965.80	965.83	NM
1/24/2006	NM	966.01	965.97	NM	966.00	NM	NM	NM	NM	NM
Average Depth to Water	30.19	30.20	30.59	30.34	28.76	28.48	28.02	30.59	30.66	-
(from TOC)										
Average Elevation of Water	966.21	966.18	966.12	966.19	966.09	966.31	966.25	965.92	966.17	-
Minimum Depth to Water	29.40	29.40	29.80	29.55	28.66	27.71	27.22	29.66	29.95	-
(from TOC)										

Note : Elevations surveyed on May 6, 2000 by Tess, Inc.
NI - Not Installed
NM - Not Measured

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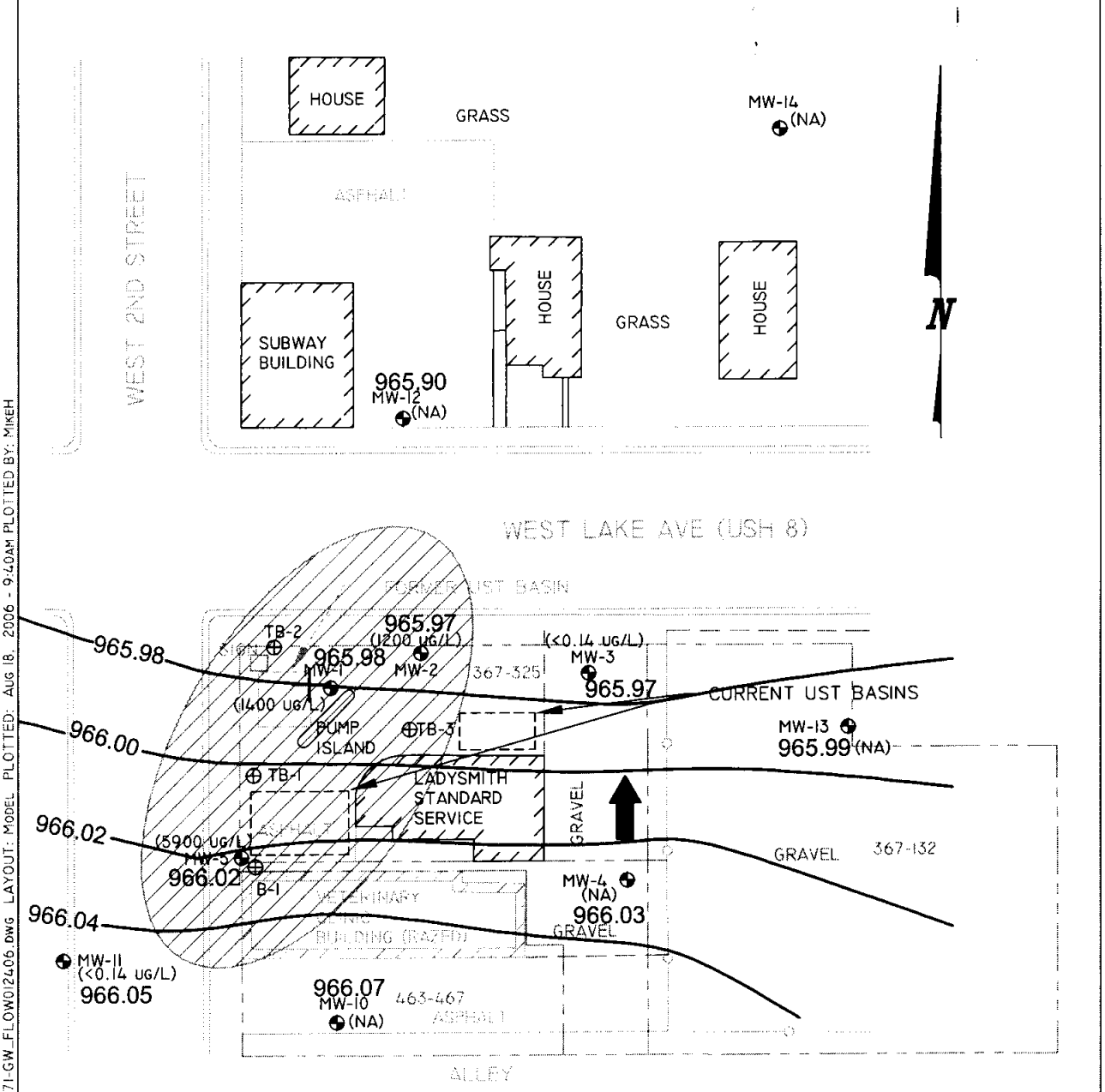

DRAWING FILE: J:\DRAFTING\267I\LADYSMITH\DWG\2671-GW_FLOW012406.DWG LAYOUT: MODEL PLOTTED: AUG 18, 2006 - 9:40AM PLOTTED BY: MIKEH

INFORMATION PROVIDED BY ENVIROS

LADYSMITH STANDARD SERVICE SITE LADYSMITH, WISCONSIN	FIGURE 5 : GROUNDWATER CONTOUR MAP(1/24/06) & ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR 140 ES (BENZENE)		
	PROJECT NO. 2671	DRAWN BY: NAP	DATE: 5/02/06

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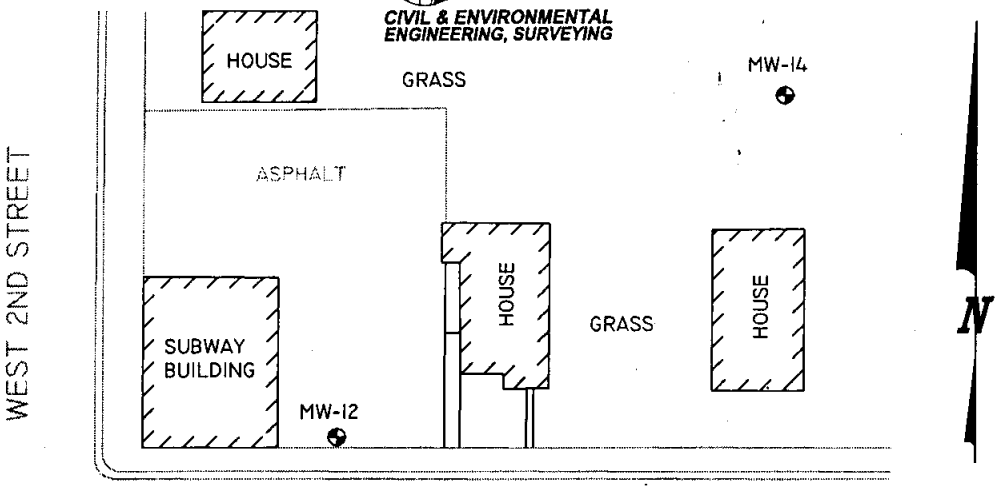
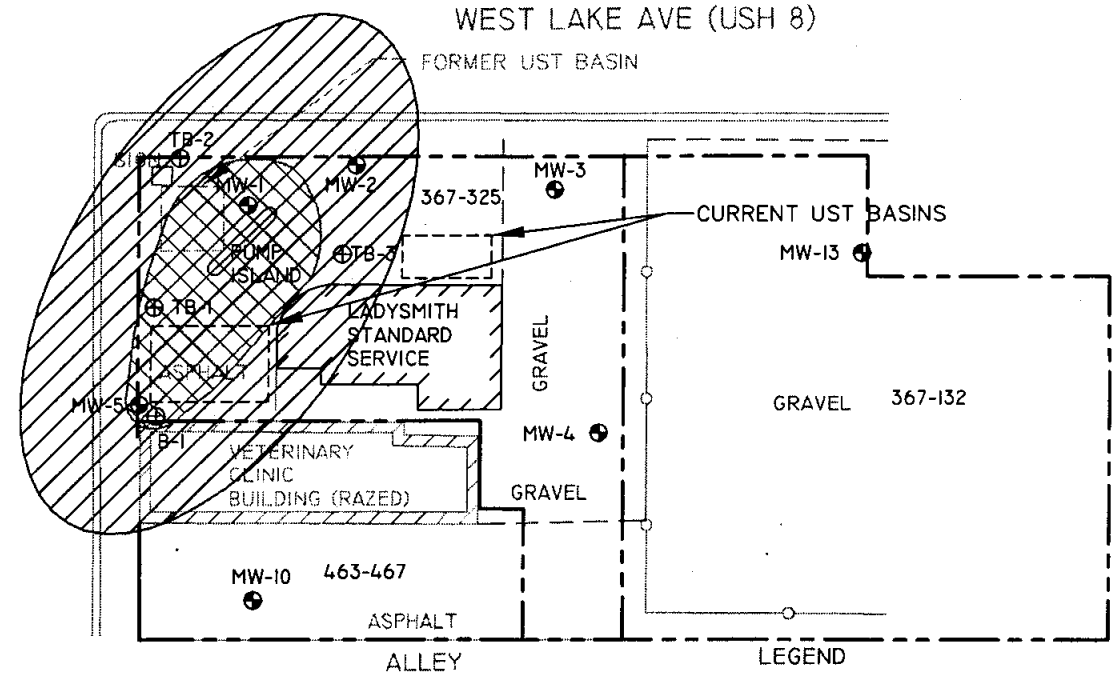




0 50

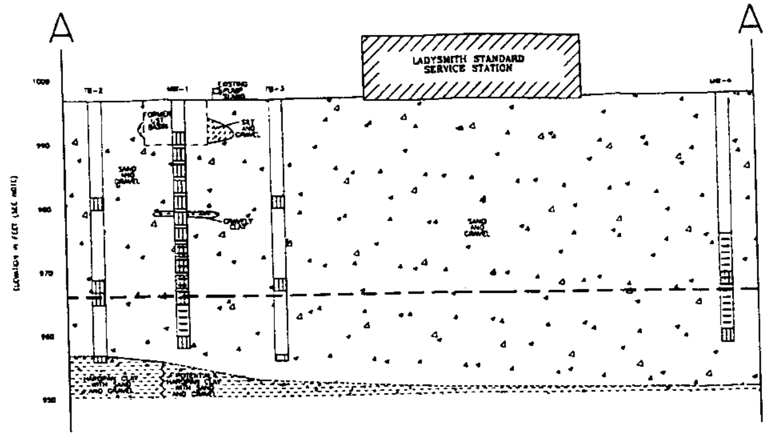
SCALE: 1" = 50'

- SATURATED SOIL CONTAMINATION
- VADOSE ZONE CONTAMINATION
- SOIL BORING
- MONITORING WELL
- FENCE LINE
- APPROX. PROPERTY LINE

INFORMATION PROVIDED BY ENVIROGEN

DRAWING FILE: J:\DRAFTING\2671LADYSMITH\DWG\2671-FIG4.DWG LAYOUT: MODEL PLOTTED: AUG 18, 2006 - 9:38AM PLOTTED BY: MIKEH

LADYSMITH STANDARD SERVICE SITE LADYSMITH, WISCONSIN	FIGURE 4 : AREA OF RESIDUAL SOIL CONTAMINATION		
	PROJECT NO. 2671	DRAWN BY: MAH	DATE: 08/17/06



LEGEND

SAMPLE INTERVAL

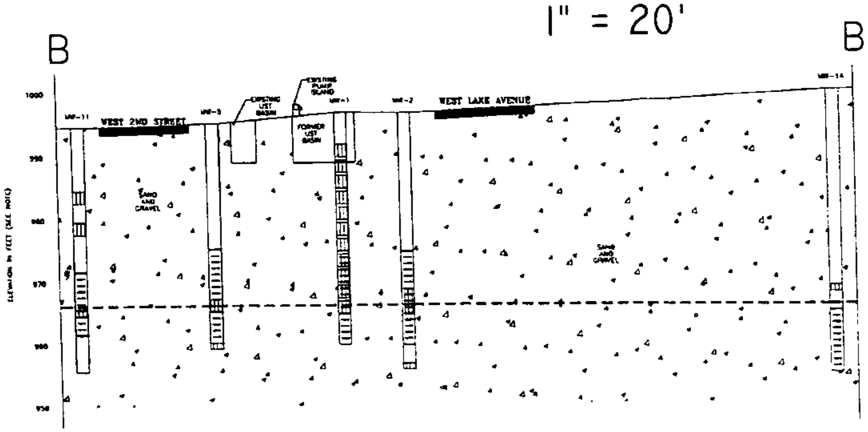
SCREENED INTERVAL

GROUNDWATER TABLE (7/15/98)

NOTE: ELEVATIONS ARE IN FEET REFERENCED TO AN OFF-SITE BENCHMARK, WITH AN ASSUMED ELEVATION OF 1,000 FEET.

SCALE

1" = 20'



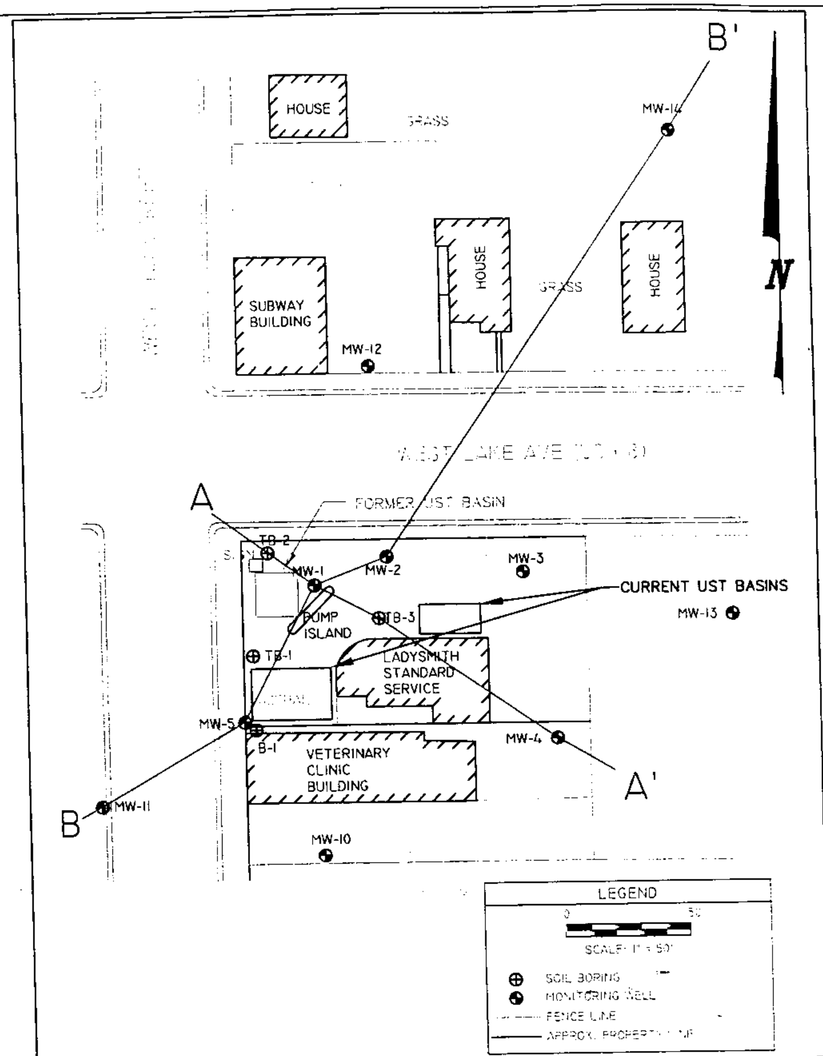
LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

GROUNDWATER TABLE (7/15/98)

NOTE: ELEVATIONS ARE IN FEET REFERENCED TO AN OFF-SITE BENCHMARK, WITH AN ASSUMED ELEVATION OF 1,000 FEET.



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LADYSMITH STANDARD SERVICE SITE
LADYSMITH, WISCONSIN

FIGURE 3 : CROSS SECTION A-A' & B-B'

PROJECT No.	DRAWN BY:	DATE:
2671	NAP	5/02/06

REI Engineering, INC.

Appendix C: Site Photographic Log

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	USH 8, West 8th Street North to River Avenue East, Ladysmith, Rusk County, Wisconsin	WisDOT: 1580-31-00 TRC: 397009.0000

Photo No.	Date
1	6/18/2020

Description
Location of GP-01 visible as the two cement boring holes, as viewed facing southwest. Two holes were drilled to increase recovery.

Photo No.	Date
2	6/18/2020

Description
Location of GP-02 marked with an orange cone, as viewed facing east.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	USH 8, West 8th Street North to River Avenue East, Ladysmith, Rusk County, Wisconsin	WisDOT: 1580-31-00 TRC: 397009.0000

Photo No.	Date
3	6/18/2020

Description
Location of GP-02 marked with an orange cone, as viewed facing northeast, across USH 8.

Photo No.	Date
4	6/18/2020

Description
Site 5 being marked off from traffic as viewed facing southwest.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	USH 8, West 8th Street North to River Avenue East, Ladysmith, Rusk County, Wisconsin	WisDOT: 1580-31-00 TRC: 397009.0000

Photo No.	Date
5	6/18/2020

Description
Location of GP-03 and GP-04 as viewed facing southwest.

Photo No.	Date
6	6/18/2020

Description
Location of GP-05 marked with an orange cone, as viewed facing west.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	USH 8, West 8th Street North to River Avenue East, Ladysmith, Rusk County, Wisconsin	WisDOT: 1580-31-00 TRC: 397009.0000

Photo No.	Date
7	6/18/2020

Description
Location where the WisDOT waste was left for pick up on the northwest corner of the garage near the entrance.

Appendix D: Soil Boring Logs/WDNR Borehole Filling and Sealing Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
USH 8 Ladysmith		GP-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	6/18/2020	6/18/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 596,872 N, 1,684,282 E S / C / (N)
SW 1/4 of SW 1/4 of Section 34, T 35 N, R 6 W
Lat 45° 27' 54.664" Long 91° 6' 27.904"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Rusk	55	Ladysmith

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 18		0.5	**CONCRETE**										
			1.0	**POORLY GRADED SAND (SP)**, fine- to medium-grained sand, trace subrounded gravel and cobbles, few clay, brown (7.5YR 4/4), no odor, moist, loose.	SP			<1						
			1.5											
			2.0											
			2.5											
			3.0											
			3.5											
			4.0					<1						Soil sampled from 2.5-5 ft bgs.
			4.5											
			5.0	Borehole terminated at 5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Liz Hoerning	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
USH 8 Ladysmith		GP-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	6/18/2020	6/18/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 596,809 N, 1,684,346 E S / C / (N)
NW 1/4 of NW 1/4 of Section 3, T 35 N, R 6 W
Lat 45° 27' 54.049"
Long 91° 6' 27.003"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Rusk	55	Ladysmith

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 36		0.5	**CONCRETE**										
			1.0	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine-to coarse-grained sand, little subrounded fine-coarse gravel, brown (7.5YR 4/3), no odor, moist, loose. At 0.33 ft bgs, as above, dark brown (7.5YR 3/3), wet.	SP			<1						
			1.5											
			2.0											
			2.5	**POORLY GRADED SAND (SP)**, mostly fine-grained sand, trace coarse rounded gravel, dark gray (7.5YR 3/1), no odor, moist, loose.	SP									
			3.0	**SAND WITH GRAVEL (SP)**, mostly fine sand, little subrounded fine-coarse gravel, dark brown (7.5YR 3/3), no odor, moist, loose.										
			3.5											
			4.0		SP			<1						Soil sampled from 2.5-5 ft bgs.
			4.5											
			5.0	Borehole terminated at 5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Liz Hoerning	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
USH 8 Ladysmith		GP-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	6/18/2020	6/18/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 596,884 N, 1,684,879 E S / C / (N)
SE 1/4 of SW 1/4 of Section 34, T 35 N, R 6 W
Lat 45° 27' 54.863"
Long 91° 6' 19.532"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Rusk	55	Ladysmith

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 30		0.5	**CONCRETE**										
			1.0	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine- to medium-grained sand, som angular fine gravel, brown (7.5YR 5/4), no odor, moist, loose.										
			1.5	As above, little subrounded coarse gravel (no fine gravel), brown (7.5YR 4/4).	SP			<1						Soil sampled from 0-2.5 ft bgs.
			2.0											
			2.5											
			3.0											
			3.5											
			4.0	As above, very dark gray (7.5YR 3/1).				<1						
			4.5											
			5.0	Borehole terminated at 5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Liz Hoerning	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
USH 8 Ladysmith		GP-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	6/18/2020	6/18/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 596,896 N, 1,684,877 E S / C / (N)
SE 1/4 of SW 1/4 of Section 34, T 35 N, R 6 W
Lat 45° 27' 54.979"
Long 91° 6' 19.569"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Rusk	55	Ladysmith

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 36		0.5	**CONCRETE**										
			1.0	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly coarse sand, some subrounded fine-coarse gravel, brown (7.5YR 4/3), no odor, moist, loose.	SP			<1						
			2.0											
			2.5	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine sand, some subrounded fine gravel, trace silt, brown (7.5YR 4/2), no odor, moist, loose. 2" crushed cobble at 3.75 ft bgs.	SP									
			3.0											
			3.5											
			4.0	**FAT CLAY (CH)**, trace fine sand, high plasticity clay, dark grayish brown, trace wood chips.	CH			1.3						Soil sampled from 2.5-5 ft bgs.
			4.5											
			5.0	Borehole terminated at 5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Liz Hoerning	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
USH 8 Ladysmith		GP-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	6/18/2020	6/18/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 596,814 N, 1,685,370 E S / C / (N)
NE 1/4 of NW 1/4 of Section 34 T 35 N, R 6 W
Lat 45° 27' 54.232" Long 91° 6' 12.633"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Rusk	55	Ladysmith

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 36		0.5	**CONCRETE**										
			1.0	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly coarse sand, some subrounded fine gravel, brown (7.5YR 4/3), no odor, moist, loose.										
			1.5	As above, fine- to coarse-grained sand, some subrounded fine-coarse gravel, very dark gray (7.5YR 3/1), no odor, moist, loose.				<1						Soil sampled from 0-2.5 ft bgs.
			2.0		SP									
			2.5	As above, coarse sand, some angular fine-coarse gravel, brown (7.5YR 4/3), no odor, moist, loose.										
			3.0											
			3.5					<1						
			4.0	**LEAN CLAY (CL)**, mostly clay, some fine sand, medium plasticity, medium/dark brown, no odor, moist.										
			4.5		CL									
			5.0	Borehole terminated at 5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Liz Hoerning	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rusk		

Latitude / Longitude (see instructions)	Format Code	Method Code
45.465014 N	☒ DD	☒ GPS008
-91.107501 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SW	SW	34	35 N	☐ E ☒ W

or Gov't Lot #

Well Street Address: 518 Lake Avenue West

Well City, Village or Town	Well ZIP Code
Ladysmith	54848

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: USH 8 Ladysmith

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Wisconsin DOT - NW Region

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Ladysmith	WI	54848

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/18/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	5.0	0.22 cubic feet	

6. Comments

GP-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental		06/18/2020

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prarie	WI	53590	Liz Hoerning	7/6/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rusk	_ _ _ _ _ _	

Latitude / Longitude (see instructions)	Format Code	Method Code
45.465524 N	☒ DD	☒ GPS008
-91.105426 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SW	SW	34	35 N	☐ E ☒ W
or Gov't Lot #				

Well Street Address: West 5th Street North at Lake Avenue West

Well City, Village or Town	Well ZIP Code
Ladysmith	54848

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/18/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

2. Facility / Owner Information

Facility Name: USH 8 Ladysmith

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Wisconsin DOT - NW Region

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Ladysmith	WI	54848

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	5.0	0.22 cubic feet	

6. Comments

GP-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental		06/18/2020

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prarie	WI	53590	Liz Hoerning	7/6/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rusk		

Latitude / Longitude (see instructions): 45.465272 N, -91.105436 W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SW	SW	34	35 N	6 ☐ E ☒ W

or Gov't Lot #

Well Street Address: West 5th Street North at Lake Avenue West

Well City, Village or Town	Well ZIP Code
Ladysmith	54848

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: USH 8 Ladysmith
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: Wisconsin DOT - NW Region
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Ladysmith	WI	54848

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/18/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	5.0	0.22 cubic feet	

6. Comments

GP-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental		06/18/2020

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prarie	WI	53590	Liz Hoerning	7/6/2020

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Rusk	_ _ _ _ _ _	

Latitude / Longitude (see instructions)	Format Code	Method Code
45.465064 N	☒ DD	☒ GPS008
-91.103509 W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SW	SW	34	35 N	☐ E ☒ W
or Gov't Lot #				

Well Street Address: 300 Lake Avenue West

Well City, Village or Town	Well ZIP Code
Ladysmith	54848

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Soil Boring	_ _ _ _ _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/18/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

2. Facility / Owner Information

Facility Name: USH 8 Ladysmith

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: Wisconsin DOT - NW Region

Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code
Ladysmith	WI	54848

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☒ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☒ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	5.0	0.22 cubic feet	

6. Comments

GP-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental		06/18/2020

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prarie	WI	53590	Liz Hoerning	7/6/2020

DNR Use Only

Date Received	Noted By

Comments:

Appendix E: Laboratory Analytical Reports

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 06, 2020

Liz Hoerning
TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717

RE: Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Dear Liz Hoerning:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 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
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209920001	**GP-01 (2.5-5)**	Solid	06/18/20 11:10	06/20/20 10:35
40209920002	**GP-02 (2.5-5)**	Solid	06/18/20 11:35	06/20/20 10:35
40209920003	**GP-03 (0-2.5)**	Solid	06/18/20 12:30	06/20/20 10:35
40209920004	**GP-04 (2.5-5)**	Solid	06/18/20 12:45	06/20/20 10:35
40209920005	**GP-05 (0-2.5)**	Solid	06/18/20 13:15	06/20/20 10:35

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209920001	**GP-01 (2.5-5)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	11	PASI-G
		EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
40209920002	**GP-02 (2.5-5)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	11	PASI-G
		EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	EMW	1	PASI-G
40209920003	**GP-03 (0-2.5)**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	EMW	1	PASI-G
40209920004	**GP-04 (2.5-5)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	EMW	1	PASI-G
40209920005	**GP-05 (0-2.5)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	11	PASI-G
		EPA 6010	TXW	1	PASI-G
		ASTM D2974-87	EMW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40209920001	**GP-01 (2.5-5)**					
EPA 6010	Lead	2.7	mg/kg	2.3	06/25/20 19:38	
ASTM D2974-87	Percent Moisture	13.7	%	0.10	07/02/20 16:30	
40209920002	**GP-02 (2.5-5)**					
EPA 6010	Lead	4.2	mg/kg	2.2	06/25/20 19:41	
ASTM D2974-87	Percent Moisture	10.6	%	0.10	07/02/20 16:45	
40209920003	**GP-03 (0-2.5)**					
ASTM D2974-87	Percent Moisture	9.8	%	0.10	07/02/20 16:45	
40209920004	**GP-04 (2.5-5)**					
WI MOD DRO	Diesel Range Organics	12.6	mg/kg	4.7	06/25/20 09:56	DC
EPA 6010	Lead	7.9	mg/kg	2.2	06/25/20 19:43	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	07/02/20 16:45	
40209920005	**GP-05 (0-2.5)**					
WI MOD DRO	Diesel Range Organics	1310	mg/kg	85.2	06/25/20 11:00	DC
EPA 6010	Lead	19.9	mg/kg	2.1	06/25/20 19:45	
ASTM D2974-87	Percent Moisture	7.0	%	0.10	07/02/20 16:45	

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: TRC - MADISON
Date: July 06, 2020

General Information:
4 samples were analyzed for WI MOD DRO 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 WI MOD DRO 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.

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:

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PROJECT NARRATIVE

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: TRC - MADISON
Date: July 06, 2020

General Information:
4 samples were analyzed for WI MOD GRO 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 TPH GRO/PVOC WI ext. 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.

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:

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PROJECT NARRATIVE

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Method: **EPA 6010**
Description: 6010 MET ICP
Client: TRC - MADISON
Date: July 06, 2020

General Information:
4 samples were analyzed for EPA 6010 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 3050 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.

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:

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PROJECT NARRATIVE

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: TRC - MADISON
Date: July 06, 2020

General Information:
2 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.

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-01 (2.5-5) **Lab ID: 40209920001** Collected: 06/18/20 11:10 Received: 06/20/20 10:35 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**<1.5**	mg/kg	4.9	1.5	1	06/24/20 09:06	06/25/20 08:42		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	100-41-4	W
Gasoline Range Organics	**<2.9**	mg/kg	5.8	2.9	1	06/23/20 08:30	06/23/20 12:59		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/23/20 08:30	06/23/20 12:59	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 12:59	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/23/20 08:30	06/23/20 12:59	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Lead	**2.7**	mg/kg	2.3	0.69	1	06/25/20 07:24	06/25/20 19:38	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**13.7**	%	0.10	0.10	1		07/02/20 16:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-02 (2.5-5) **Lab ID: 40209920002** Collected: 06/18/20 11:35 Received: 06/20/20 10:35 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**<1.5**	mg/kg	4.9	1.5	1	06/24/20 09:06	06/25/20 08:51		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	100-41-4	W
Gasoline Range Organics	**<2.8**	mg/kg	5.6	2.8	1	06/23/20 08:30	06/23/20 13:25		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/23/20 08:30	06/23/20 13:25	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 13:25	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/23/20 08:30	06/23/20 13:25	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Lead	**4.2**	mg/kg	2.2	0.65	1	06/25/20 07:24	06/25/20 19:41	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**10.6**	%	0.10	0.10	1		07/02/20 16:45		

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-03 (0-2.5) **Lab ID: 40209920003** Collected: 06/18/20 12:30 Received: 06/20/20 10:35 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
8260 MSV Med Level Normal List	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	06/24/20 08:15	06/24/20 23:13	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	06/24/20 08:15	06/24/20 23:13	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	06/24/20 08:15	06/24/20 23:13	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	06/24/20 08:15	06/24/20 23:13	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	06/24/20 08:15	06/24/20 23:13	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	06/24/20 08:15	06/24/20 23:13	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	06/24/20 08:15	06/24/20 23:13	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	06/24/20 08:15	06/24/20 23:13	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	06/24/20 08:15	06/24/20 23:13	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	06/24/20 08:15	06/24/20 23:13	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	06/24/20 08:15	06/24/20 23:13	75-00-3	W
Chloroform	**<47.5**	ug/kg	250	47.5	1	06/24/20 08:15	06/24/20 23:13	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	06/24/20 08:15	06/24/20 23:13	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	06/24/20 08:15	06/24/20 23:13	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	06/24/20 08:15	06/24/20 23:13	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	06/24/20 08:15	06/24/20 23:13	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	06/24/20 08:15	06/24/20 23:13	91-20-3	W

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-03 (0-2.5) **Lab ID: 40209920003** Collected: 06/18/20 12:30 Received: 06/20/20 10:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	06/24/20 08:15	06/24/20 23:13	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	06/24/20 08:15	06/24/20 23:13	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/24/20 08:15	06/24/20 23:13	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	06/24/20 08:15	06/24/20 23:13	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:13	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:13	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:13	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	06/24/20 08:15	06/24/20 23:13	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	06/24/20 08:15	06/24/20 23:13	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	06/24/20 08:15	06/24/20 23:13	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	58-145		1	06/24/20 08:15	06/24/20 23:13	1868-53-7	
Toluene-d8 (S)	98	%	56-140		1	06/24/20 08:15	06/24/20 23:13	2037-26-5	
4-Bromofluorobenzene (S)	90	%	52-137		1	06/24/20 08:15	06/24/20 23:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.8**	%	0.10	0.10	1		07/02/20 16:45		

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-04 (2.5-5) **Lab ID: 40209920004** Collected: 06/18/20 12:45 Received: 06/20/20 10:35 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**12.6**	mg/kg	4.7	1.4	1	06/24/20 09:06	06/25/20 09:56		DC
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay								
Gasoline Range Organics	**<3.0**	mg/kg	5.9	3.0	1	06/23/20 08:30	06/23/20 13:50		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Lead	**7.9**	mg/kg	2.2	0.66	1	06/25/20 07:24	06/25/20 19:43	7439-92-1	
8260 MSV Med Level Normal List	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	06/24/20 08:15	06/24/20 23:35	630-20-6	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	71-55-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	79-34-5	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	79-00-5	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-34-3	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-35-4	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	563-58-6	W
1,2,3-Trichlorobenzene	**<47.3**	ug/kg	158	47.3	1	06/24/20 08:15	06/24/20 23:35	87-61-6	W
1,2,3-Trichloropropane	**<37.4**	ug/kg	125	37.4	1	06/24/20 08:15	06/24/20 23:35	96-18-4	W
1,2,4-Trichlorobenzene	**<41.7**	ug/kg	250	41.7	1	06/24/20 08:15	06/24/20 23:35	120-82-1	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	95-63-6	W
1,2-Dibromo-3-chloropropane	**<237**	ug/kg	789	237	1	06/24/20 08:15	06/24/20 23:35	96-12-8	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	106-93-4	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	95-50-1	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	107-06-2	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	78-87-5	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	108-67-8	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	541-73-1	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	142-28-9	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	106-46-7	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	594-20-7	W
2-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	06/24/20 08:15	06/24/20 23:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	64.0	25.0	1	06/24/20 08:15	06/24/20 23:35	106-43-4	W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	62.0	25.0	1	06/24/20 08:15	06/24/20 23:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	70.0	25.0	1	06/24/20 08:15	06/24/20 23:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-25-2	W
Bromomethane	**<63.8**	ug/kg	250	63.8	1	06/24/20 08:15	06/24/20 23:35	74-83-9	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	108-90-7	W
Chloroethane	**<46.4**	ug/kg	250	46.4	1	06/24/20 08:15	06/24/20 23:35	75-00-3	W

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-04 (2.5-5) **Lab ID: 40209920004** Collected: 06/18/20 12:45 Received: 06/20/20 10:35 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
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Chloroform	**<47.5**	ug/kg	250	47.5	1	06/24/20 08:15	06/24/20 23:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	80.0	25.0	1	06/24/20 08:15	06/24/20 23:35	74-87-3	W
Dibromochloromethane	**<229**	ug/kg	763	229	1	06/24/20 08:15	06/24/20 23:35	124-48-1	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	74-95-3	W
Dichlorodifluoromethane	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-71-8	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	100-41-4	W
Hexachloro-1,3-butadiene	**<68.7**	ug/kg	229	68.7	1	06/24/20 08:15	06/24/20 23:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	98-82-8	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	1634-04-4	W
Methylene Chloride	**<26.3**	ug/kg	88.0	26.3	1	06/24/20 08:15	06/24/20 23:35	75-09-2	W
Naphthalene	**<27.3**	ug/kg	91.0	27.3	1	06/24/20 08:15	06/24/20 23:35	91-20-3	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	100-42-5	W
Tetrachloroethene	**<38.7**	ug/kg	129	38.7	1	06/24/20 08:15	06/24/20 23:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	108-88-3	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	65.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-69-4	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	75-01-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	156-59-2	W
cis-1,3-Dichloropropene	**<42.3**	ug/kg	141	42.3	1	06/24/20 08:15	06/24/20 23:35	10061-01-5	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/24/20 08:15	06/24/20 23:35	179601-23-1	W
n-Butylbenzene	**<30.0**	ug/kg	100	30.0	1	06/24/20 08:15	06/24/20 23:35	104-51-8	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	103-65-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/24/20 08:15	06/24/20 23:35	95-47-6	W
p-Isopropyltoluene	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:35	99-87-6	W
sec-Butylbenzene	**<25.0**	ug/kg	72.0	25.0	1	06/24/20 08:15	06/24/20 23:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	62.0	25.0	1	06/24/20 08:15	06/24/20 23:35	98-06-6	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	67.0	25.0	1	06/24/20 08:15	06/24/20 23:35	156-60-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	74.0	25.0	1	06/24/20 08:15	06/24/20 23:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	58-145		1	06/24/20 08:15	06/24/20 23:35	1868-53-7	
Toluene-d8 (S)	104	%	56-140		1	06/24/20 08:15	06/24/20 23:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	52-137		1	06/24/20 08:15	06/24/20 23:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.4**	%	0.10	0.10	1		07/02/20 16:45		

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ANALYTICAL RESULTS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Sample: GP-05 (0-2.5) **Lab ID: 40209920005** Collected: 06/18/20 13:15 Received: 06/20/20 10:35 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO Pace Analytical Services - Green Bay								
Diesel Range Organics	**1310**	mg/kg	85.2	25.5	20	06/24/20 09:06	06/25/20 11:00		DC
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. Pace Analytical Services - Green Bay								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	100-41-4	W
Gasoline Range Organics	**<2.7**	mg/kg	5.4	2.7	1	06/23/20 08:30	06/23/20 14:16		
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/23/20 08:30	06/23/20 14:16	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/23/20 08:30	06/23/20 14:16	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/23/20 08:30	06/23/20 14:16	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Green Bay								
Lead	**19.9**	mg/kg	2.1	0.62	1	06/25/20 07:24	06/25/20 19:45	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**7.0**	%	0.10	0.10	1		07/02/20 16:45		

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QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 358368
QC Batch Method: TPH GRO/PVOC WI ext.
Analysis Method: WI MOD GRO
Analysis Description: WIGRO Solid GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

METHOD BLANK: 2072873 Matrix: Solid
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	06/23/20 09:06	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	06/23/20 09:06	
Benzene	ug/kg	<25.0	50.0	06/23/20 09:06	
Ethylbenzene	ug/kg	<25.0	50.0	06/23/20 09:06	
Gasoline Range Organics	mg/kg	<1.2	4.1	06/23/20 09:06	
m&p-Xylene	ug/kg	<50.0	100	06/23/20 09:06	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	06/23/20 09:06	
Naphthalene	ug/kg	<25.0	50.0	06/23/20 09:06	
o-Xylene	ug/kg	<25.0	50.0	06/23/20 09:06	
Toluene	ug/kg	<25.0	50.0	06/23/20 09:06	
a,a,a-Trifluorotoluene (S)	%	101	80-120	06/23/20 09:06	

LABORATORY CONTROL SAMPLE & LCSD: 2072874 2072875

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1100	1030	110	103	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1090	1030	109	103	80-120	6	20	
Benzene	ug/kg	1000	1070	1020	107	102	80-120	5	20	
Ethylbenzene	ug/kg	1000	1090	1040	109	104	80-120	5	20	
Gasoline Range Organics	mg/kg	10	9.8	9.4	98	94	80-120	4	20	
m&p-Xylene	ug/kg	2000	2210	2090	110	104	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	1080	1040	108	104	80-120	4	20	
Naphthalene	ug/kg	1000	1160	1100	116	110	80-120	5	20	
o-Xylene	ug/kg	1000	1100	1030	110	103	80-120	6	20	
Toluene	ug/kg	1000	1060	1010	106	101	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				101	103	80-120			

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QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 358550 | Analysis Method: EPA 6010
QC Batch Method: EPA 3050 | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

METHOD BLANK: 2073515 Matrix: Solid
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.60	2.0	06/25/20 19:02	

LABORATORY CONTROL SAMPLE: 2073516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2073517 2073518

Parameter	Units	40209975001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	1.3J	53.3	53.5	52.4	52.9	96	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 358533
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40209920003, 40209920004

METHOD BLANK: 2073457 Matrix: Solid
Associated Lab Samples: 40209920003, 40209920004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	06/24/20 17:34	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	06/24/20 17:34	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	06/24/20 17:34	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	06/24/20 17:34	
1,1-Dichloroethane	ug/kg	<13.5	50.0	06/24/20 17:34	
1,1-Dichloroethene	ug/kg	<11.8	50.0	06/24/20 17:34	
1,1-Dichloropropene	ug/kg	<10.7	50.0	06/24/20 17:34	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	06/24/20 17:34	
1,2,3-Trichloropropane	ug/kg	<37.4	125	06/24/20 17:34	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	06/24/20 17:34	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	06/24/20 17:34	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	06/24/20 17:34	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	06/24/20 17:34	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	06/24/20 17:34	
1,2-Dichloroethane	ug/kg	<13.8	50.0	06/24/20 17:34	
1,2-Dichloropropane	ug/kg	<13.5	50.0	06/24/20 17:34	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	06/24/20 17:34	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	06/24/20 17:34	
1,3-Dichloropropane	ug/kg	<11.0	50.0	06/24/20 17:34	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	06/24/20 17:34	
2,2-Dichloropropane	ug/kg	<15.7	52.0	06/24/20 17:34	
2-Chlorotoluene	ug/kg	<19.3	64.0	06/24/20 17:34	
4-Chlorotoluene	ug/kg	<19.3	64.0	06/24/20 17:34	
Benzene	ug/kg	<12.5	42.0	06/24/20 17:34	
Bromobenzene	ug/kg	<18.5	62.0	06/24/20 17:34	
Bromochloromethane	ug/kg	<20.9	70.0	06/24/20 17:34	
Bromodichloromethane	ug/kg	<10.0	50.0	06/24/20 17:34	
Bromoform	ug/kg	<21.6	72.0	06/24/20 17:34	
Bromomethane	ug/kg	<63.8	250	06/24/20 17:34	
Carbon tetrachloride	ug/kg	<7.5	50.0	06/24/20 17:34	
Chlorobenzene	ug/kg	<16.8	56.0	06/24/20 17:34	
Chloroethane	ug/kg	<46.4	250	06/24/20 17:34	
Chloroform	ug/kg	<47.5	250	06/24/20 17:34	
Chloromethane	ug/kg	<24.0	80.0	06/24/20 17:34	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	06/24/20 17:34	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	06/24/20 17:34	
Dibromochloromethane	ug/kg	<229	763	06/24/20 17:34	
Dibromomethane	ug/kg	<17.7	59.0	06/24/20 17:34	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	06/24/20 17:34	
Diisopropyl ether	ug/kg	<14.0	50.0	06/24/20 17:34	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

METHOD BLANK: 2073457 Matrix: Solid
Associated Lab Samples: 40209920003, 40209920004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	06/24/20 17:34	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	06/24/20 17:34	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	06/24/20 17:34	
m&p-Xylene	ug/kg	<32.4	108	06/24/20 17:34	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	06/24/20 17:34	
Methylene Chloride	ug/kg	<26.3	88.0	06/24/20 17:34	
n-Butylbenzene	ug/kg	<30.0	100	06/24/20 17:34	
n-Propylbenzene	ug/kg	<17.8	59.0	06/24/20 17:34	
Naphthalene	ug/kg	<27.3	91.0	06/24/20 17:34	
o-Xylene	ug/kg	<18.1	60.0	06/24/20 17:34	
p-Isopropyltoluene	ug/kg	<21.7	72.0	06/24/20 17:34	
sec-Butylbenzene	ug/kg	<21.5	72.0	06/24/20 17:34	
Styrene	ug/kg	<12.3	50.0	06/24/20 17:34	
tert-Butylbenzene	ug/kg	<18.7	62.0	06/24/20 17:34	
Tetrachloroethene	ug/kg	<38.7	129	06/24/20 17:34	
Toluene	ug/kg	<13.1	50.0	06/24/20 17:34	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	06/24/20 17:34	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	06/24/20 17:34	
Trichloroethene	ug/kg	<12.8	50.0	06/24/20 17:34	
Trichlorofluoromethane	ug/kg	<19.6	65.0	06/24/20 17:34	
Vinyl chloride	ug/kg	<14.5	50.0	06/24/20 17:34	
4-Bromofluorobenzene (S)	%	90	52-137	06/24/20 17:34	
Dibromofluoromethane (S)	%	95	58-145	06/24/20 17:34	
Toluene-d8 (S)	%	98	56-140	06/24/20 17:34	

LABORATORY CONTROL SAMPLE: 2073458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2700	108	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2700	108	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2550	102	70-130	
1,1-Dichloroethane	ug/kg	2500	2650	106	69-143	
1,1-Dichloroethene	ug/kg	2500	2430	97	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2410	97	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2480	99	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2450	98	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2490	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2520	101	70-130	
1,2-Dichloropropane	ug/kg	2500	2500	100	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2470	99	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2380	95	70-130	
Benzene	ug/kg	2500	2450	98	70-130	
Bromodichloromethane	ug/kg	2500	2510	100	70-130	
Bromoform	ug/kg	2500	2150	86	67-130	

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

LABORATORY CONTROL SAMPLE: 2073458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2450	98	45-134	
Carbon tetrachloride	ug/kg	2500	2560	102	70-130	
Chlorobenzene	ug/kg	2500	2450	98	70-130	
Chloroethane	ug/kg	2500	2570	103	58-143	
Chloroform	ug/kg	2500	2490	100	76-122	
Chloromethane	ug/kg	2500	1970	79	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2520	101	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2200	88	70-130	
Dibromochloromethane	ug/kg	2500	2250	90	70-130	
Dichlorodifluoromethane	ug/kg	2500	1600	64	26-99	
Ethylbenzene	ug/kg	2500	2500	100	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2440	98	70-130	
m&p-Xylene	ug/kg	5000	5000	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2440	98	70-130	
Methylene Chloride	ug/kg	2500	2320	93	70-130	
o-Xylene	ug/kg	2500	2530	101	70-130	
Styrene	ug/kg	2500	2490	100	70-130	
Tetrachloroethene	ug/kg	2500	2420	97	70-130	
Toluene	ug/kg	2500	2530	101	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2620	105	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2180	87	70-130	
Trichloroethene	ug/kg	2500	2510	100	70-130	
Trichlorofluoromethane	ug/kg	2500	2440	98	70-128	
Vinyl chloride	ug/kg	2500	2120	85	53-110	
4-Bromofluorobenzene (S)	%			89	52-137	
Dibromofluoromethane (S)	%			98	58-145	
Toluene-d8 (S)	%			93	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2073459 2073460

Parameter	Units	40209941007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1690	1690	1670	1820	99	108	66-130	9	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1690	1690	1860	1750	110	104	70-133	6	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1690	1690	1670	1680	99	99	70-130	1	20	
1,1-Dichloroethane	ug/kg	<25.0	1690	1690	1690	1680	100	99	69-143	1	20	
1,1-Dichloroethene	ug/kg	<25.0	1690	1690	1310	1280	78	76	58-120	3	20	
1,2,4-Trichlorobenzene	ug/kg	<41.7	1690	1690	1670	1600	99	95	60-130	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	<237	1690	1690	1620	1640	96	97	59-136	1	20	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1690	1690	1720	1700	102	101	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1690	1690	1700	1670	101	99	70-130	2	20	
1,2-Dichloroethane	ug/kg	<25.0	1690	1690	1610	1690	95	100	70-136	5	20	
1,2-Dichloropropane	ug/kg	<25.0	1690	1690	1650	1600	98	95	78-128	3	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1690	1690	1680	1580	99	94	70-130	6	20	

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(920)469-2436

QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2073459 2073460

Parameter	Units	40209941007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/kg	<25.0	1690	1690	1590	1620	94	96	70-130	1	20	
Benzene	ug/kg	<25.0	1690	1690	1590	1580	94	94	70-130	1	20	
Bromodichloromethane	ug/kg	<25.0	1690	1690	1520	1640	90	97	70-130	8	20	
Bromoform	ug/kg	<25.0	1690	1690	1640	1630	97	97	63-130	1	20	
Bromomethane	ug/kg	<63.8	1690	1690	1110	1180	66	70	33-146	6	20	
Carbon tetrachloride	ug/kg	<25.0	1690	1690	1530	1660	91	98	65-130	8	20	
Chlorobenzene	ug/kg	<25.0	1690	1690	1650	1620	98	96	70-130	2	20	
Chloroethane	ug/kg	<46.4	1690	1690	1320	1290	78	77	46-156	2	20	
Chloroform	ug/kg	<47.5	1690	1690	1620	1670	96	99	75-130	3	20	
Chloromethane	ug/kg	<25.0	1690	1690	791	758	47	45	20-139	4	20	
cis-1,2-Dichloroethene	ug/kg	43.6J	1690	1690	1690	1700	97	98	69-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<42.3	1690	1690	1510	1520	89	90	70-130	1	20	
Dibromochloromethane	ug/kg	<229	1690	1690	1630	1690	97	100	70-130	4	20	
Dichlorodifluoromethane	ug/kg	<25.0	1690	1690	504	464	30	27	10-99	8	22	
Ethylbenzene	ug/kg	<25.0	1690	1690	1610	1630	95	97	80-120	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1690	1690	1600	1640	95	97	70-130	2	20	
m&p-Xylene	ug/kg	<50.0	3380	3380	3310	3300	98	98	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1690	1690	1570	1700	93	100	70-130	8	20	
Methylene Chloride	ug/kg	<26.3	1690	1690	1490	1410	88	84	70-136	5	20	
o-Xylene	ug/kg	<25.0	1690	1690	1660	1670	98	99	70-130	1	20	
Styrene	ug/kg	<25.0	1690	1690	1600	1630	95	97	70-130	2	20	
Toluene	ug/kg	<25.0	1690	1690	1650	1620	98	96	80-120	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1690	1690	1610	1660	95	98	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1690	1690	1530	1570	90	93	70-130	3	20	
Trichloroethene	ug/kg	205	1690	1690	1750	1860	91	98	70-130	6	20	
Trichlorofluoromethane	ug/kg	<25.0	1690	1690	1340	1330	79	79	53-128	0	20	
Vinyl chloride	ug/kg	<25.0	1690	1690	955	949	57	56	32-118	1	20	
4-Bromofluorobenzene (S)	%						91	94	52-137			
Dibromofluoromethane (S)	%						113	111	58-145			
Toluene-d8 (S)	%						101	103	56-140			

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(920)469-2436

QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 358532 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

METHOD BLANK: 2073454 Matrix: Solid
Associated Lab Samples: 40209920001, 40209920002, 40209920004, 40209920005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.4	06/25/20 07:57	

LABORATORY CONTROL SAMPLE & LCSD: 2073455 2073456

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	34.3	32.0	86	80	70-120	7	20	

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QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 359311
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209920001

SAMPLE DUPLICATE: 2078245

Parameter	Units	40209889009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	6.8	3	10	

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QUALITY CONTROL DATA

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

QC Batch: 359312
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40209920002, 40209920003, 40209920004, 40209920005

SAMPLE DUPLICATE: 2078253

Parameter	Units	40210525003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.0	18.6	2	10	

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QUALIFIERS

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

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

DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 397009.0000 LADYSMITH PHASE 2.
Pace Project No.: 40209920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209920001	**GP-01 (2.5-5)**	WI MOD DRO	358532	WI MOD DRO	358586
40209920002	**GP-02 (2.5-5)**	WI MOD DRO	358532	WI MOD DRO	358586
40209920004	**GP-04 (2.5-5)**	WI MOD DRO	358532	WI MOD DRO	358586
40209920005	**GP-05 (0-2.5)**	WI MOD DRO	358532	WI MOD DRO	358586
40209920001	**GP-01 (2.5-5)**	TPH GRO/PVOC WI ext.	358368	WI MOD GRO	358406
40209920002	**GP-02 (2.5-5)**	TPH GRO/PVOC WI ext.	358368	WI MOD GRO	358406
40209920004	**GP-04 (2.5-5)**	TPH GRO/PVOC WI ext.	358368	WI MOD GRO	358406
40209920005	**GP-05 (0-2.5)**	TPH GRO/PVOC WI ext.	358368	WI MOD GRO	358406
40209920001	**GP-01 (2.5-5)**	EPA 3050	358550	EPA 6010	358700
40209920002	**GP-02 (2.5-5)**	EPA 3050	358550	EPA 6010	358700
40209920004	**GP-04 (2.5-5)**	EPA 3050	358550	EPA 6010	358700
40209920005	**GP-05 (0-2.5)**	EPA 3050	358550	EPA 6010	358700
40209920003	**GP-03 (0-2.5)**	EPA 5035/5030B	358533	EPA 8260	358534
40209920004	**GP-04 (2.5-5)**	EPA 5035/5030B	358533	EPA 8260	358534
40209920001	**GP-01 (2.5-5)**	ASTM D2974-87	359311		
40209920002	**GP-02 (2.5-5)**	ASTM D2974-87	359312		
40209920003	**GP-03 (0-2.5)**	ASTM D2974-87	359312		
40209920004	**GP-04 (2.5-5)**	ASTM D2974-87	359312		
40209920005	**GP-05 (0-2.5)**	ASTM D2974-87	359312		

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

Page 1 of

40209920

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

(Please Print Clearly)	
Company Name:	TRC
Branch/Location:	Madison, WI
Project Contact:	Liz Hoerning
Phone:	608-234-0987
Project Number:	397009.0000
Project Name:	Ladysmith Phase 2.5
Project State:	WI
Sampled By (Print):	Liz Hoerning
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	Y/N									CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						N	N	N	N	N							
						F	F	F	A	A							
						PVOC / naphthalene	VOC	GRO	DRO	lead.							
001	GP-01 (2.5-5)	6/18	11:00	S		X		X	X	X							
002	GP-02 (2.5-5)	6/18	11:35	S		X		X	X	X							
003	GP-03 (0-2.5)	6/18	12:30	S			X								Discard extra bottles		
004	GP-04 (2.5-5)	6/18	12:45	S			X	X	X	X							
005	GP-05 (0-2.5)	6/18	13:15	S		X		X	X	X							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6/18/20 3:00 pm		
FedEx	6/20/20 1035	Pace	6/20/20 1035

PACE Project No.: 40209920

Receipt Temp = ROOT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal (Present) / Not Present
(Intact) / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: TRC

Project # 40209920

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

Initial when completed:

Date/ Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		-220282				-1	-1										2.5 / 5 / 10
002																						-1	-1										2.5 / 5 / 10
003																						-1	-1										2.5 / 5 / 10
004																						-1	-1										2.5 / 5 / 10
005																						-1	-1										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

6/20/20

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
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	

F-GB-C-046-Rev.03 (11Feb2020) Sample Preservation Receipt Form

MCL 6-20-20

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: TRC Project # 40209920

Additional Comments/Resolution:

WGFU MLB-20-20

^ Volumes upon receipt (g): 001-24.49 + 002-24.65 (both insufficient),
003-27.01, 004-27.57, 005-25.23 MLB-20-20

Project Manager Review: _____ **Date:** _____

Pace Analytical® 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)

Project #: WO#: 40209920

Client Name: TRC

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 8153 7726 0645

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 - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: Rot /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 6/20/20 Initials: SMW

Labeled By Initials: MLR

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:	☑Yes ☐No ☐N/A	1. † CC collection year MLR 6-20-20 SMW 6/20/20
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. No pg#, Mail Invoice, 6/20/20
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: SMW 6/20/20		8. Need 1 vial for GRO and PVOC SMW 6/20/20
For Analysis: ☐Yes ☑No MS/MSD:	☐Yes ☑No ☐N/A	for 005, 003 WGFU received
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact: SMW 6/20/20	☑Yes ☐No	10. 1 VGM received broken for 005 SMW 6/20/20
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: (1)	☐Yes ☑No ☐N/A	12. 002 1 vial no depth
-Includes date/time/ID/Analysis Matrix: S		005 WGFU writing unreadable SMW 6/20/20
Trip Blank Present:	☐Yes ☑No ☐N/A	13. placed by other bagged contents and
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	process of elimination SMW 6/20/20
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution: (1 year "20" Per all except 005 WGFU + 001 VGA Ms (no year) MLR 6-20-20
Note on COC to discard extra bottles written on 003 line prior to receipt MLR 6-20-20

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

MLR 6-20-20

Appendix F: Waste Disposal Documentation

NON-HAZARDOUS WASTE INVENTORY RECORD

Wisconsin Department of Transportation
DT1229 6/2016 (For use with DT1208)

DTSD Region and Office Northwest - Eau Claire		
WisDOT Project ID 1580-31-00	County Rusk	Highway and Termini USH 8
Site Name Various Sites along USH 8 between W 8th St and River Ave E.		Phase of Investigation 2.5
Consultant Company TRC Environmental		
Consultant Contact Liz Hoerning		
Contact (Area Code) Telephone Number 608-234-0987		
Contact Email Address lhoerning@trccompanies.com		
Consultant ID for this Site 397009		
Generation Date (m/d/yyyy) 6/18/2020		
Comments, special instructions for pickup or site access Bucket placed next to side southwest side of front garage		

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed.
Number and Label Each Container.

Container ID Number	**Container Size and Type**	**Estimated Volume of Waste**	**Source: Tank, Well, Boring**	**Contents: Soil, Water, Other (Describe)**
Example: 1, 4, 5, 6, 7, 18, 22, 23	Example: 30 gallon metal drum	Example: 8 drums x 30 gal = 240 gallons	Example: monitoring wells # MW3, MW4, and MW7	Example: wash water, alconox
1	5 gallon bucket	5 gallons	Soil borings GP-01 thorough GP-05	soil

Total Number of Containers to be picked up: 1

Container Location: Attach map or site sketch to Email

Analytical Results: Attach analytical results to Email

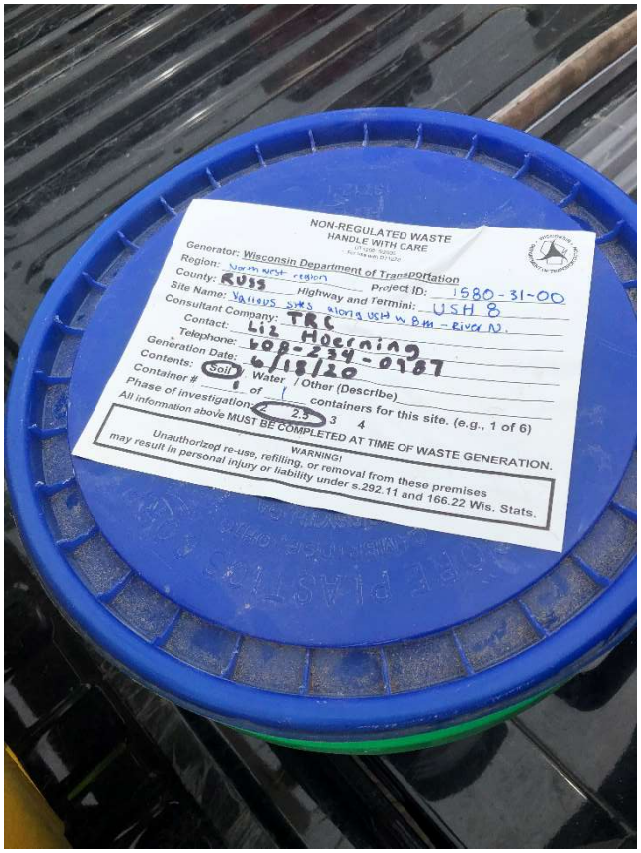
Email one copy of this form to each of the following:

- DOT Hazardous Materials Specialist
- Regional Environmental or Hazardous Materials Coordinator
- Hazardous Waste Contractor

Include a copy of this form as the final appendix in the report for this site.


Tire shop
W 4th St N
W 3rd St N
211 C
Miner Ave W
Miner Ave W
United States
Postal Service
W 4th St S
W 3rd St S
Ladysmith News


FLAMBEAU
SILVERA


NON-REGULATED WASTE
HANDLE WITH CARE
Generator: Wisconsin Department of Transportation
Region: Northwest region
County: Russ
Project ID: 1580-31-00
Site Name: Various sites along USH 8 W Bm - River N.
Highway and Termini: USH 8
Consultant Company: TRC
Contact: Liz Hoerning
Telephone: 608-234-0787
Generation Date: 6/18/20
Contents: Soil Water / Other (Describe)
Container # 1 of 2,3 containers for this site. (e.g., 1 of 6)
Phase of investigation
All information above MUST BE COMPLETED AT TIME OF WASTE GENERATION.
WARNING!
Unauthorized re-use, refilling, or removal from these premises may result in personal injury or liability under s.292.11 and 166.22 Wis. Stats.

Appendix G: Special Provisions

Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item _____.

A Description

A.1 General

This special provision describes excavating, loading, hauling, treatment, and disposing of contaminated soil at a DNR approved bioremediation and disposal facility. The closest DNR approved disposal facilities are:

Waste Management Timberline Trail RDF
N4581 Hutchinson Road
Weyerhaeuser, WI 54895

Seven Mile Creek Landfill
8001 Olson Drive
Eau Claire, WI 547030

Perform this work in accordance to standard spec 205 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 and Groundwater Locations

The department completed testing for soil contamination for locations within this project where excavation is required.

Contaminated soil is potentially present at the following locations:

1. **Site 6 (Former Gas Station) -** Station 343+10 to 343+70, from reference line to limits on RT

Contaminated soils and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soils and/or USTs are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer and the environmental consultant. Contaminated soil 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:	Daniel Haak
Address:	TRC Environmental Corporation 708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone:	(608) 826-3628
Fax:	(608) 826-3941
e-mail:	dhaak@trccompanies.com

A.3 Coordination

Coordinate work under this Contract with the environmental consultant retained by the department:

Consultant:	TRC Environmental Corporation
Contact:	Mr. Dan Haak
Address:	708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone:	(608) 826-3628
Fax:	(608) 826-3941
e-mail:	dhaak@trccompanies.com

The role of the environmental consultant will be limited to:

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

2. Identifying contaminated soils to be hauled to the disposal facility;

3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and

4. Obtaining the necessary approvals for disposal of contaminated soil from the disposal facility.

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 DNR approved disposal facility that will be used for disposal of contaminated soils, 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 soils from the disposal facility.

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 transport contaminated soil or pump contaminated groundwater 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 Wisconsin Department of Transportation. For further information regarding the investigations, including waste characterization within the project limits, contact Aaron Gustafson with the department, at (715) 817-0407.

A.6 Health and Safety Requirements

Subsection 107.1 of the Standard Specifications is supplemented with the following:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products; polycyclic aromatic hydrocarbons; and 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 disposal facility is subject to the facility's safety policies.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

The environmental consultant will periodically examine excavated soil during excavations in the areas of known soil contamination within the construction limits.

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated and to ensure that excavations do not extend beyond the minimum required to construct utilities and highway improvements unless expressly directed to do so by the engineer.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite disposal or can be beneficially re-used on-site. 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 reuse as fill within the construction limits, or

- Contaminated soil for off-site treatment and disposal at the WDNR-licensed disposal facility, or

- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance with NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The Department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the Department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such soil is encountered until such time as characterization is completed.

Directly load and haul soils designated by the environmental consultant for off-site disposal to the DNR approved disposal facility. 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 designated for off-site disposal so as not to contain free liquids. Verify that the vehicles used to transport contaminated material are licensed for such activity in accordance with applicable state and federal regulations.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum 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 and the Environmental Consultant.

E Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil accepted by the disposal facility as documented by weight tickets generated by the disposal facility.

F Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
_____	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, treatment, and disposal of contaminated soil; tipping fees including applicable taxes and surcharges; obtaining solid waste collection and transportation service operating licenses; assisting in the collection 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 in accordance with the Contract.