

From: [Symons, Brian D](#)
To: [Sager, John E - DNR](#)
Cc: [Gregory Prom \(MP\)](#); [Jamie Mehle \(SWLP\)](#); [Hughes, Erin](#); [Laszewski, Steve](#); [Saari, Christopher A - DNR](#)
Subject: RE: [EXTERNAL MAIL] SWL&P 100% Design
Date: Wednesday, December 28, 2022 5:16:49 PM
Attachments: [Attachments.html](#)

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In the 90% Upland RAD comments, DNR requested nested piezometers with monitoring wells MW-3R and MW-4R and an additional monitoring well located near the City of Superior building in the area of SLIF-33. This e-mail is a response to DNR's e-mail dated December 27, 2022 regarding the nested monitoring wells and MW-29.

The Upland 100% Design included the wells noted above, namely nested wells MW-3A/3B and MW-4A/4B and MW-29. As shown on Drawings A-8, B-5, and B-6, MW-3R and MW-4R were relabeled as MW-3A and MW-4A, respectively. MW-3B and MW-4B are the requested piezometers. MW-3B and MW-4B were screened immediately beneath the excavations in the 100% Upland RAD submitted October 2022. DNR has requested:

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Foth has revised the drawings to show:

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The revised drawings are attached along with the Appendix B-1 drawing that shows the location of B-33 near the new location of MW-29.

Citrix Attachments

Expires January 27, 2023

22-12-28 AMP Figure 2-1 Air Monitoring St...ons.pdf	1.2 MB
22-12-28 Drawing A-8 MW-29 Moved.pdf	1.2 MB
22-12-28 Drawing B-5 MW-3B Revised Screen.pdf	301.6 KB
22-12-28 Drawing B-6 MW-4B Revised Screen.pdf	324 KB
22-12-28 FSP Figure 4-1 Long Term Ground...ork.pdf	1.1 MB

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Phone: (715) 919-7239

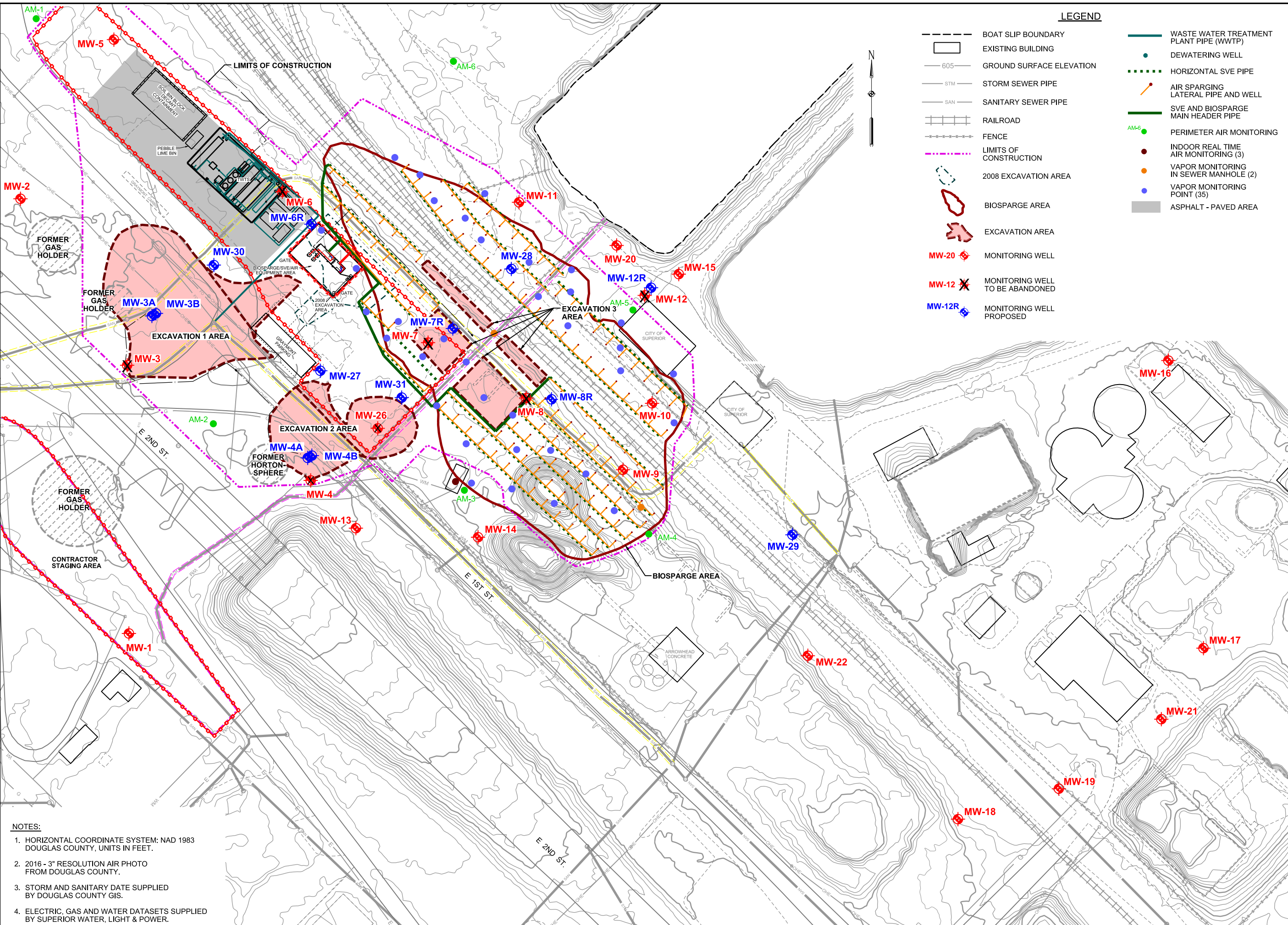
john.sager@wisconsin.gov



dnr.wi.gov



P:\Projects\18S024\Drawings\AMP\Drawing 2-1 Air Monitoring Station Locations.dgn
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LEGEND

- BOAT SLIP BOUNDARY
- EXISTING BUILDING
- GROUND SURFACE ELEVATION
- STORM SEWER PIPE
- SANITARY SEWER PIPE
- RAILROAD
- FENCE
- LIMITS OF CONSTRUCTION
- 2008 EXCAVATION AREA
- BIOSPARGE AREA
- EXCAVATION AREA
- MW-20 MONITORING WELL
- MW-12 MONITORING WELL TO BE ABANDONED
- MW-12R MONITORING WELL PROPOSED
- WASTE WATER TREATMENT PLANT PIPE (WWTP)
- DEWATERING WELL
- HORIZONTAL SVE PIPE
- AIR SPARGING LATERAL PIPE AND WELL
- SVE AND BIOSPARGE MAIN HEADER PIPE
- AM-6 PERIMETER AIR MONITORING
- INDOOR REAL TIME AIR MONITORING (3)
- VAPOR MONITORING IN SEWER MANHOLE (2)
- VAPOR MONITORING POINT (35)
- ASPHALT - PAVED AREA

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM: NAD 1983 DOUGLAS COUNTY, UNITS IN FEET.
 2. 2016 - 3" RESOLUTION AIR PHOTO FROM DOUGLAS COUNTY.
 3. STORM AND SANITARY DATE SUPPLIED BY DOUGLAS COUNTY GIS.
 4. ELECTRIC, GAS AND WATER DATASETS SUPPLIED BY SUPERIOR WATER, LIGHT & POWER.

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**UPLAND AREA REMEDIAL ACTION
 DESIGN DRAWINGS
 FOR THE
 FORMER MGP SITE**
SUPERIOR WATER, LIGHT & POWER
 WISCONSIN
 DOUGLAS COUNTY

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NO.	DESCRIPTION	DATE	BY

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BY	DATE

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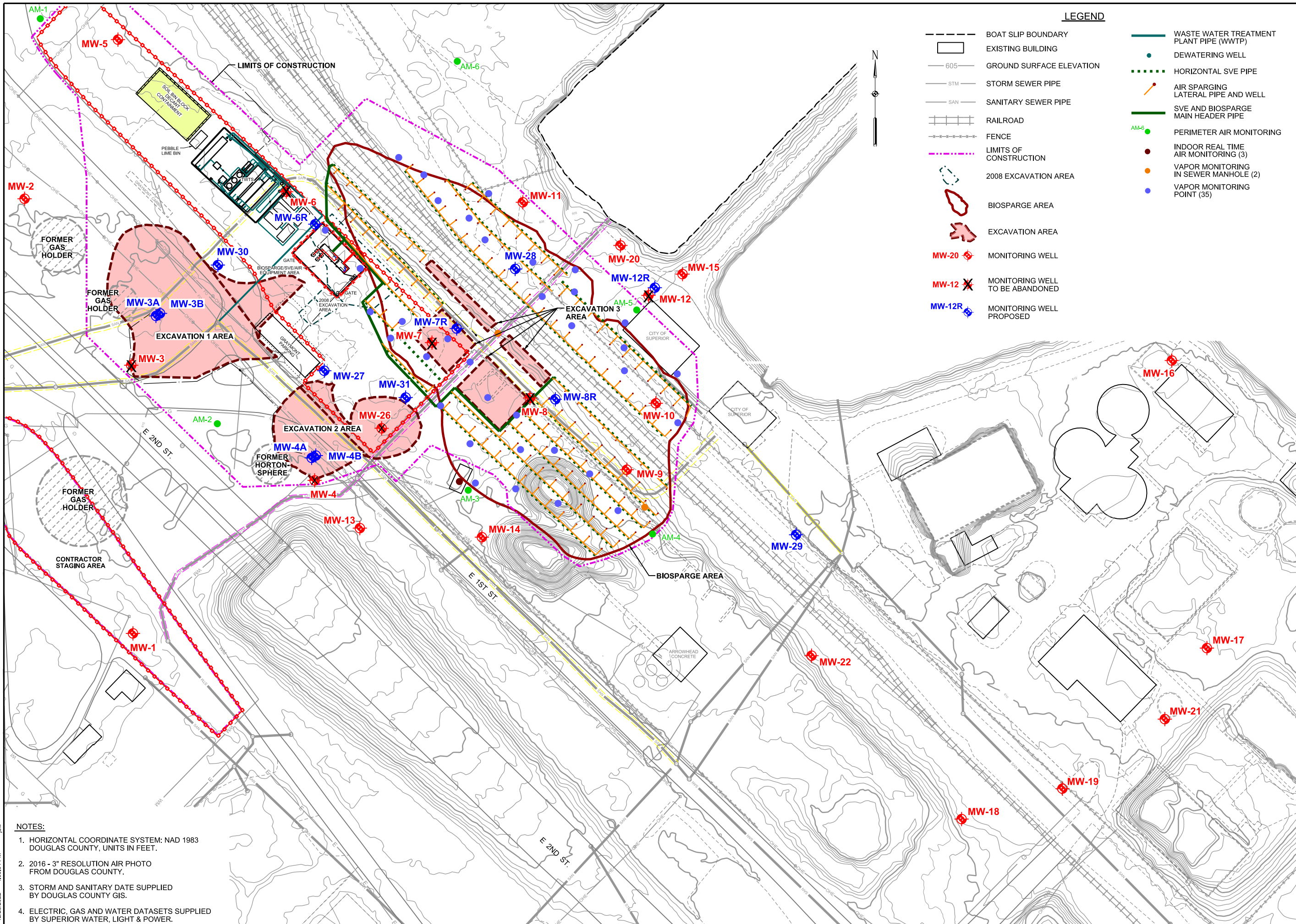
AIR MONITORING STATION LOCATIONS

HORIZONTAL SCALE:

PROJECT ID: 18S024

2-1

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LEGEND

- BOAT SLIP BOUNDARY
- ▭ EXISTING BUILDING
- 605— GROUND SURFACE ELEVATION
- STM— STORM SEWER PIPE
- SAN— SANITARY SEWER PIPE
- ▬ RAILROAD
- FENCE
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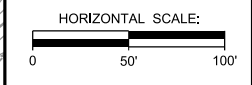
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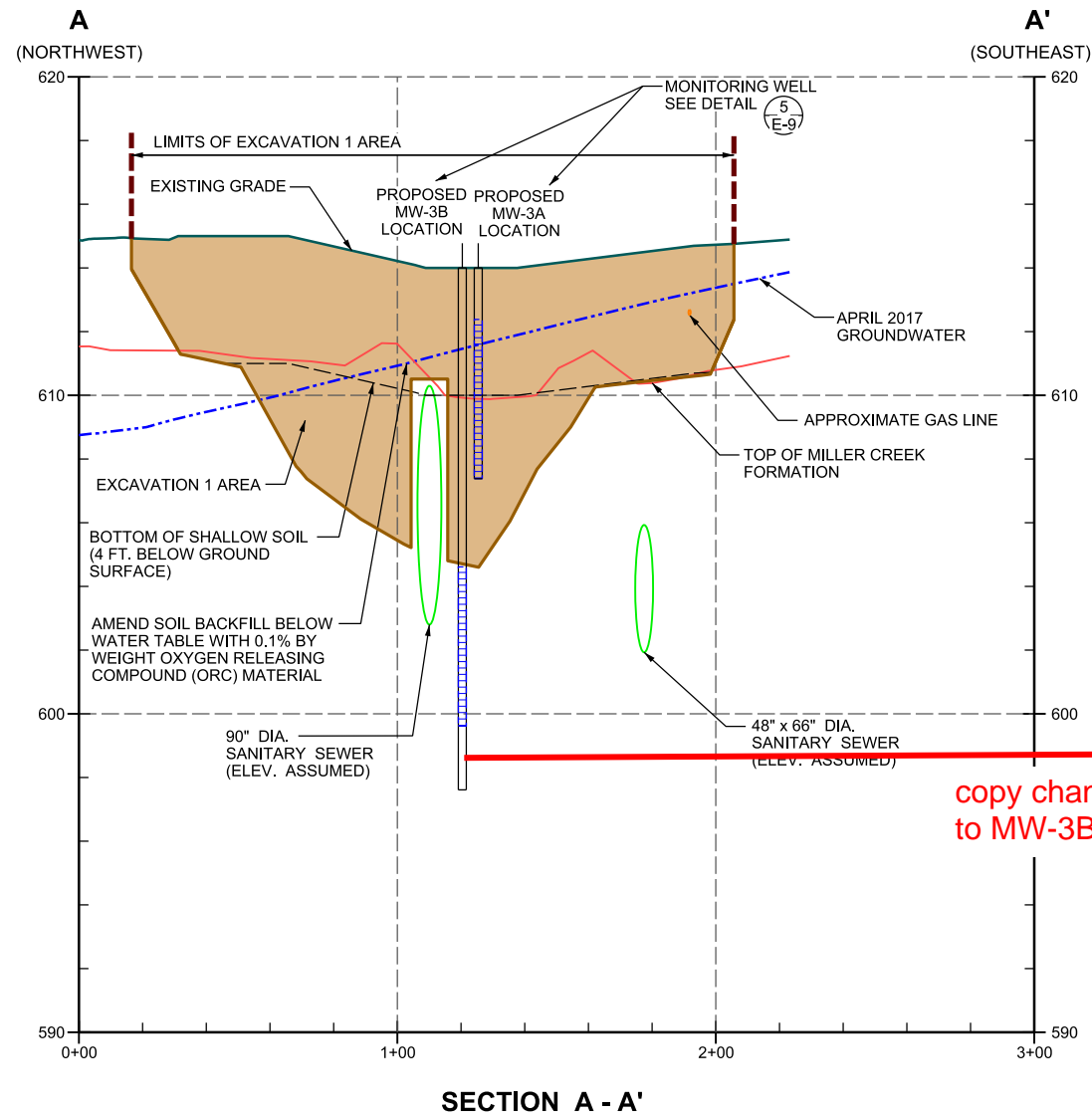
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GROUNDWATER AND AIR MONITORING LOCATIONS

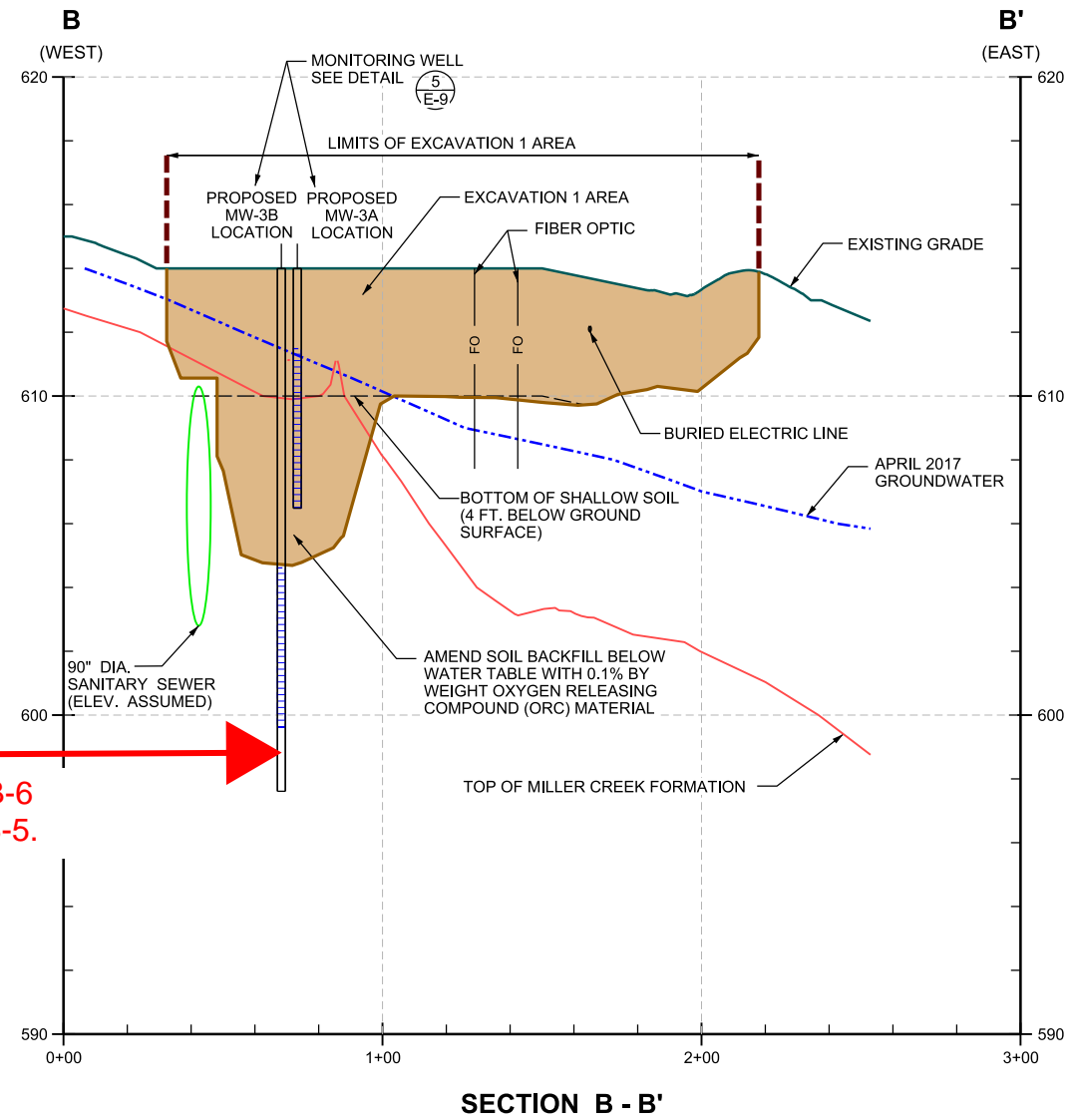


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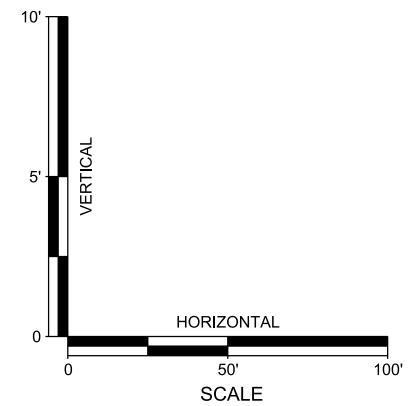


copy changes for MW-4B from B-6 to MW-3B on both sections on B-5.



NOTES:

- SEE DRAWING B-1 FOR CROSS-SECTION LOCATION MAP.
- BACKFILL AND COMPACTION OF SOIL AND AGGREGATE BENEATH THE CITY OF SUPERIOR ROADWAYS WILL COMPLY WITH THE CITY OF SUPERIOR REQUIREMENTS (OR WDOT REQUIREMENTS IF NO CITY REQUIREMENTS ARE PROVIDED).



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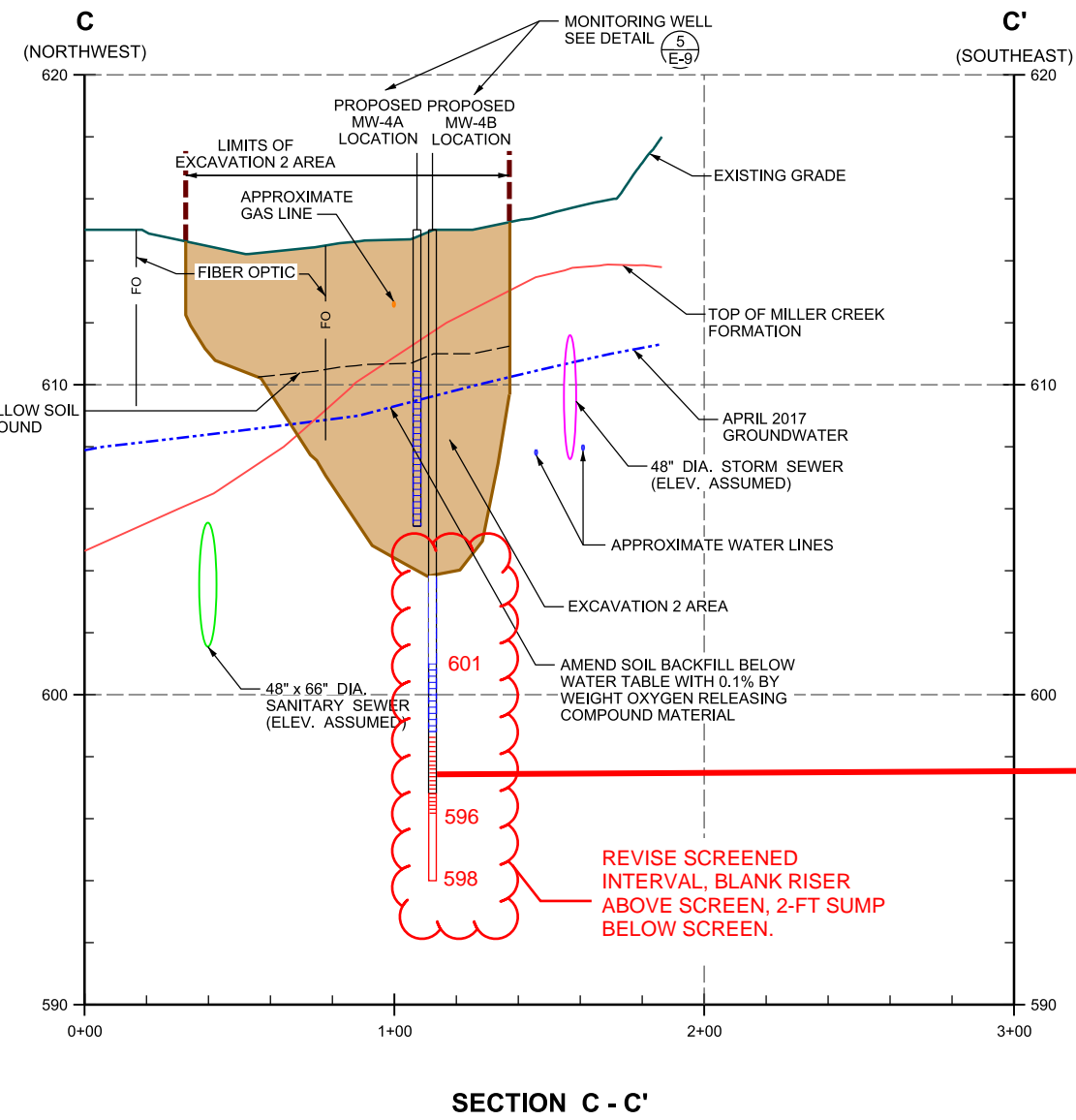
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**CROSS-SECTIONS
 FORMER MGP
 GAS HOLDER**

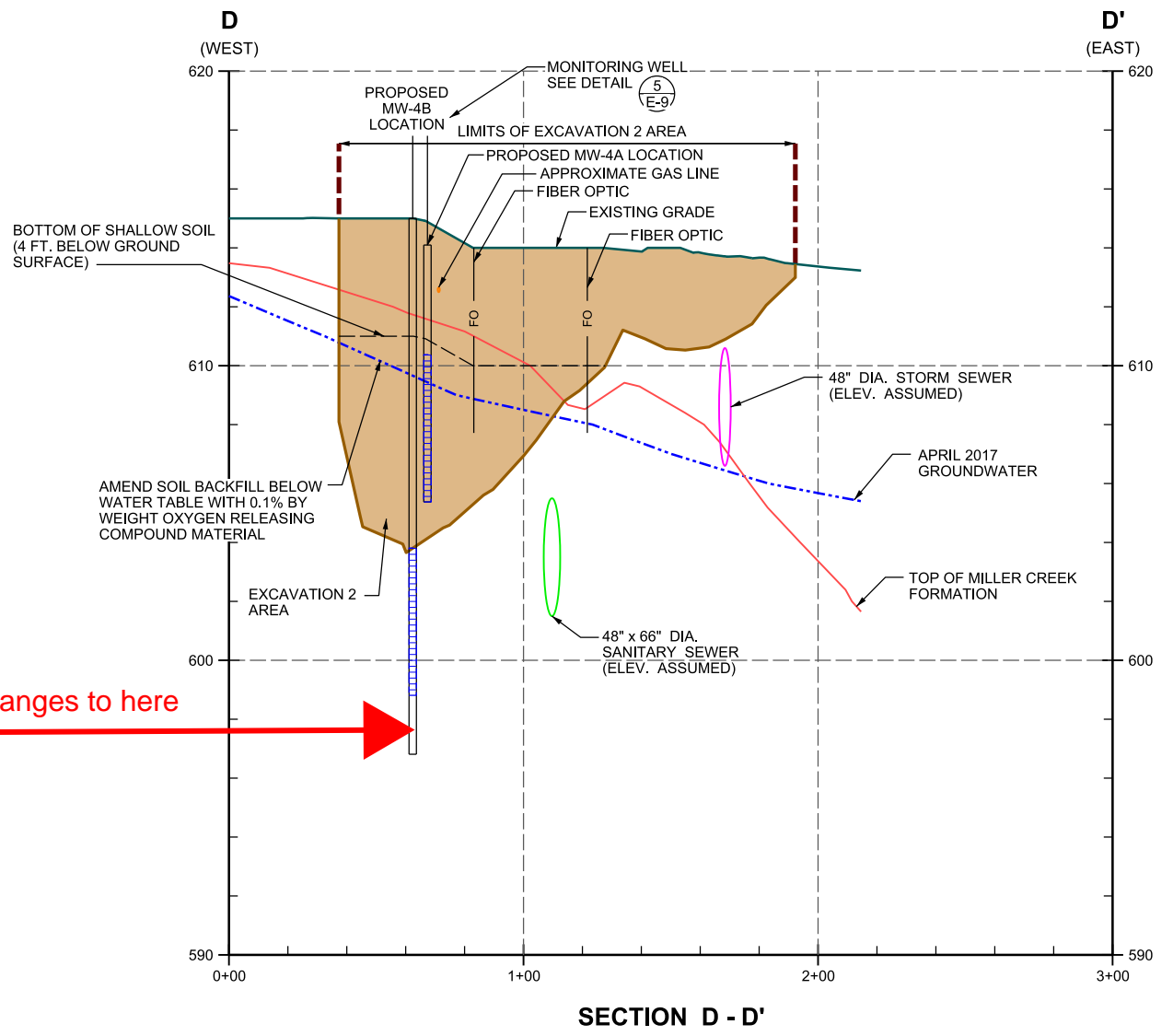
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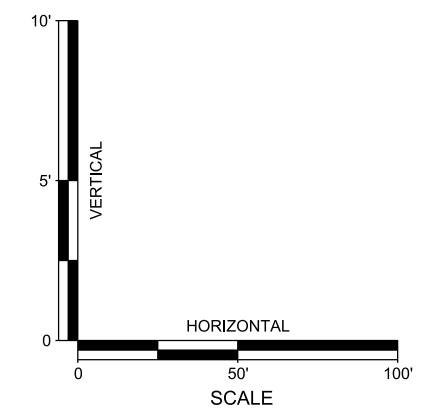
P:\1\2022\10\2\2022\11\4\6\6 AM\10/2/2022 11:46:46 AM\Documents\Clients\Superior\Water\Light Power\0018S024\00\CAD\Drawings\Remedial Design\100 PCT1100-Drawing B-6 Cross Sections Former Hortonsphere.dgn




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 FOR THE
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SUPERIOR WATER, LIGHT & POWER
 WISCONSIN
 DOUGLAS COUNTY

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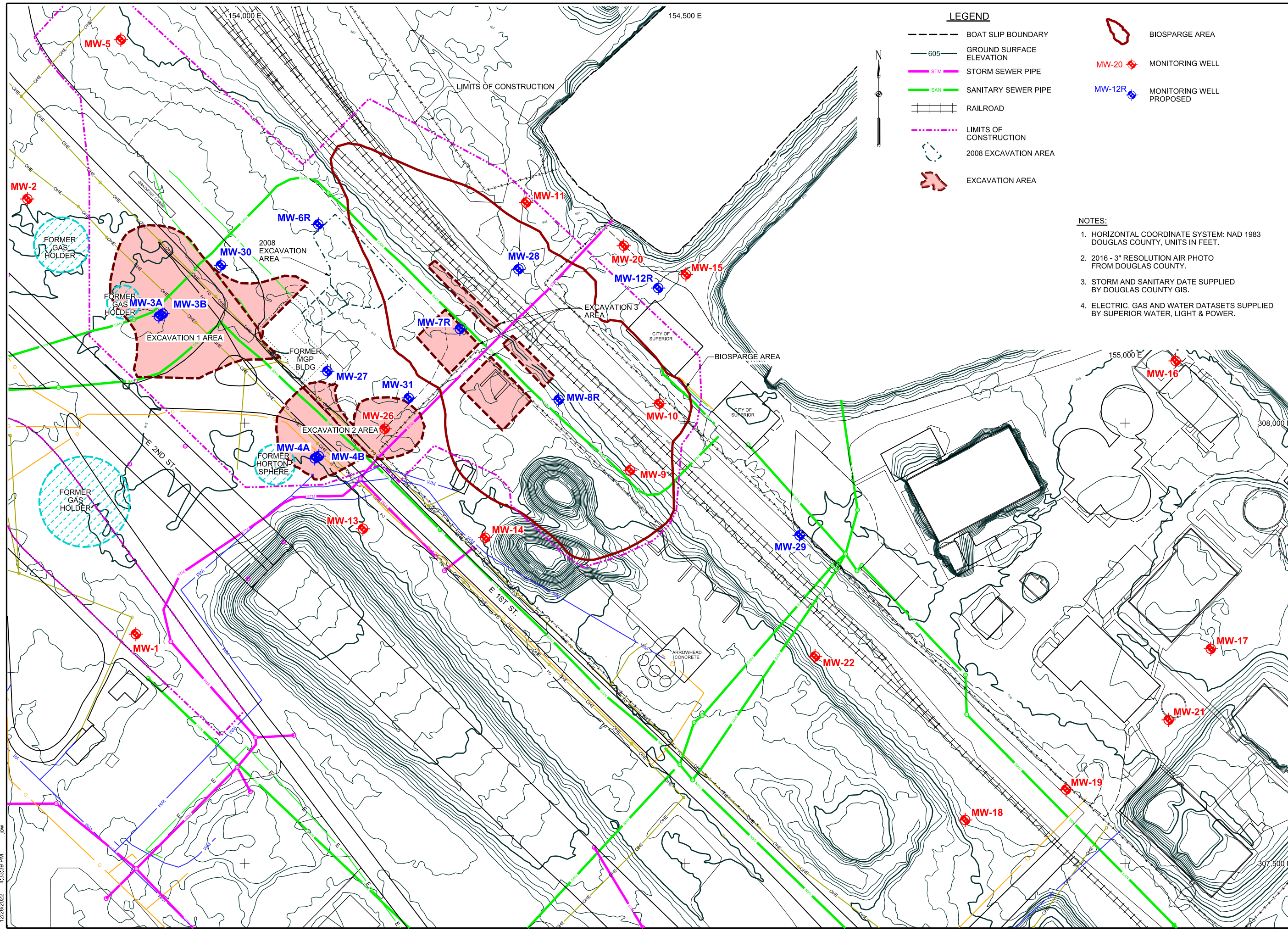
CROSS-SECTIONS
 FORMER
 HORTONSHERE

SCALE: AS SHOWN

B-6

PROJECT ID: 18S024

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LEGEND

- BOAT SLIP BOUNDARY
- 605 GROUND SURFACE ELEVATION
- STM STORM SEWER PIPE
- SAN SANITARY SEWER PIPE
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- LIMITS OF CONSTRUCTION
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- MW-20 MONITORING WELL
- MW-12R MONITORING WELL PROPOSED

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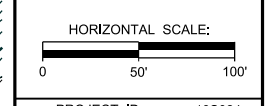


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**LONG - TERM
 GROUNDWATER
 MONITORING
 NETWORK**



PROJECT ID: 18S024

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Cc: [Gregory Prom \(MP\)](#); [Jamie Mehle \(SWLP\)](#); [Hughes, Erin](#); [Laszewski, Steve](#); [Saari, Christopher A - DNR](#)
Subject: RE: [EXTERNAL MAIL] SWL&P 100% Design
Date: Thursday, December 29, 2022 10:21:22 AM
Attachments: [image007.png](#)
[image008.png](#)
[Attachments.html](#)

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Final Drawings B-5 and B-6 are attached below.

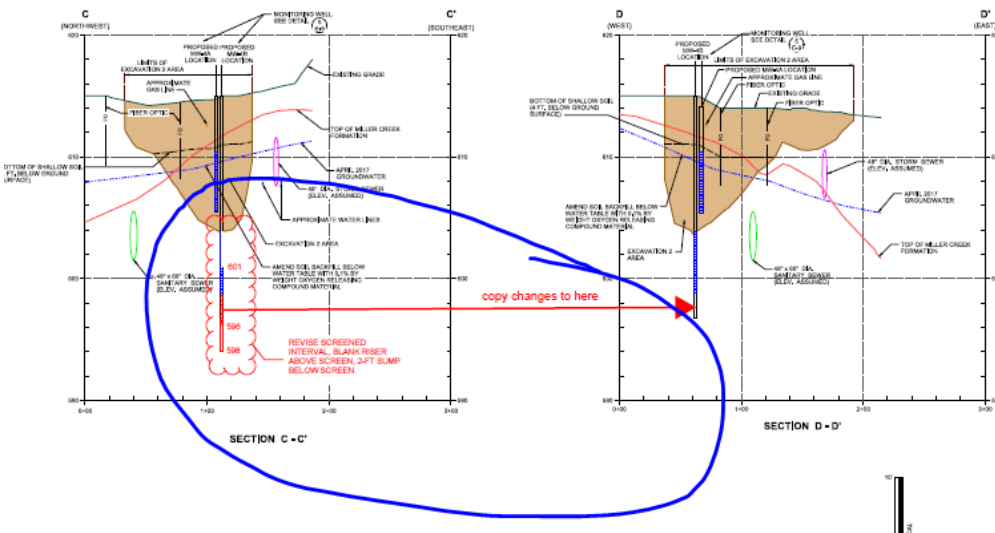
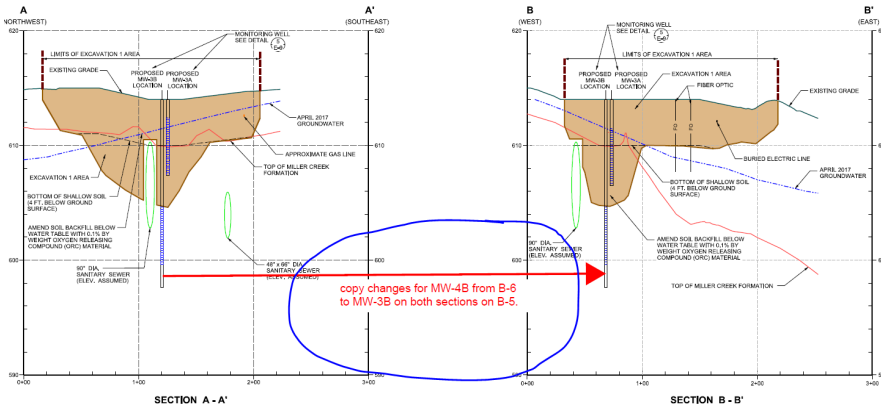
Citrix Attachments	Expires January 28, 2023
22-12-29 Drawing B-5 Cross Sections Forme...der.pdf	303.2 KB
22-12-29 Drawing B-6 Cross Sections Forme...ere.pdf	306.9 KB

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Subject: RE: [EXTERNAL MAIL] SWL&P 100% Design

Hi Brian,

The changed figures look good except I am a little confused about Figure B-5 and B-6. They appear to be draft figures with notes for changes, not final figures (see below). The modifications look correct but please send me the final figures when they are available. Thank you.



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John Sager

Hydrogeologist – Remediation and Redevelopment Program

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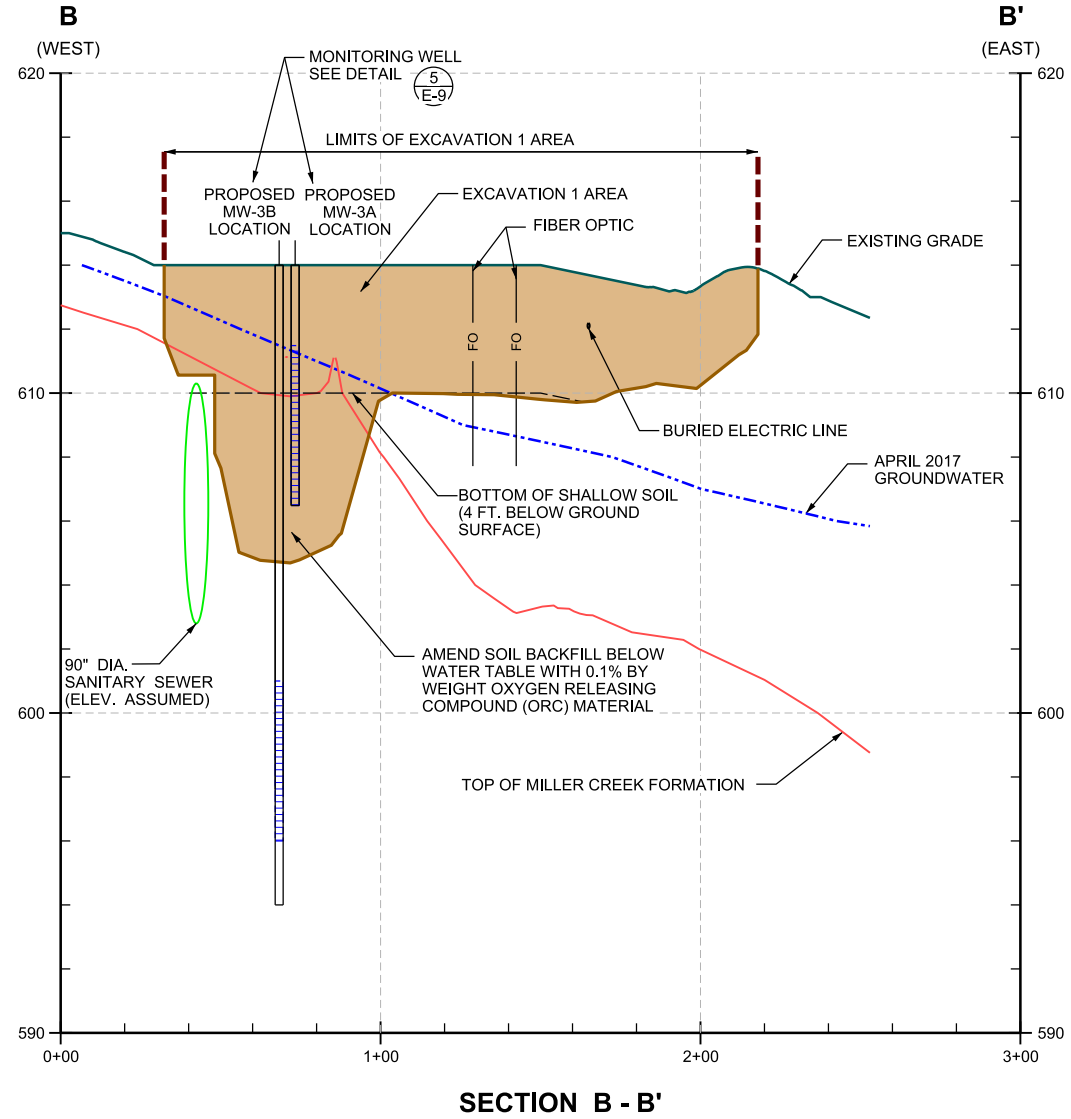
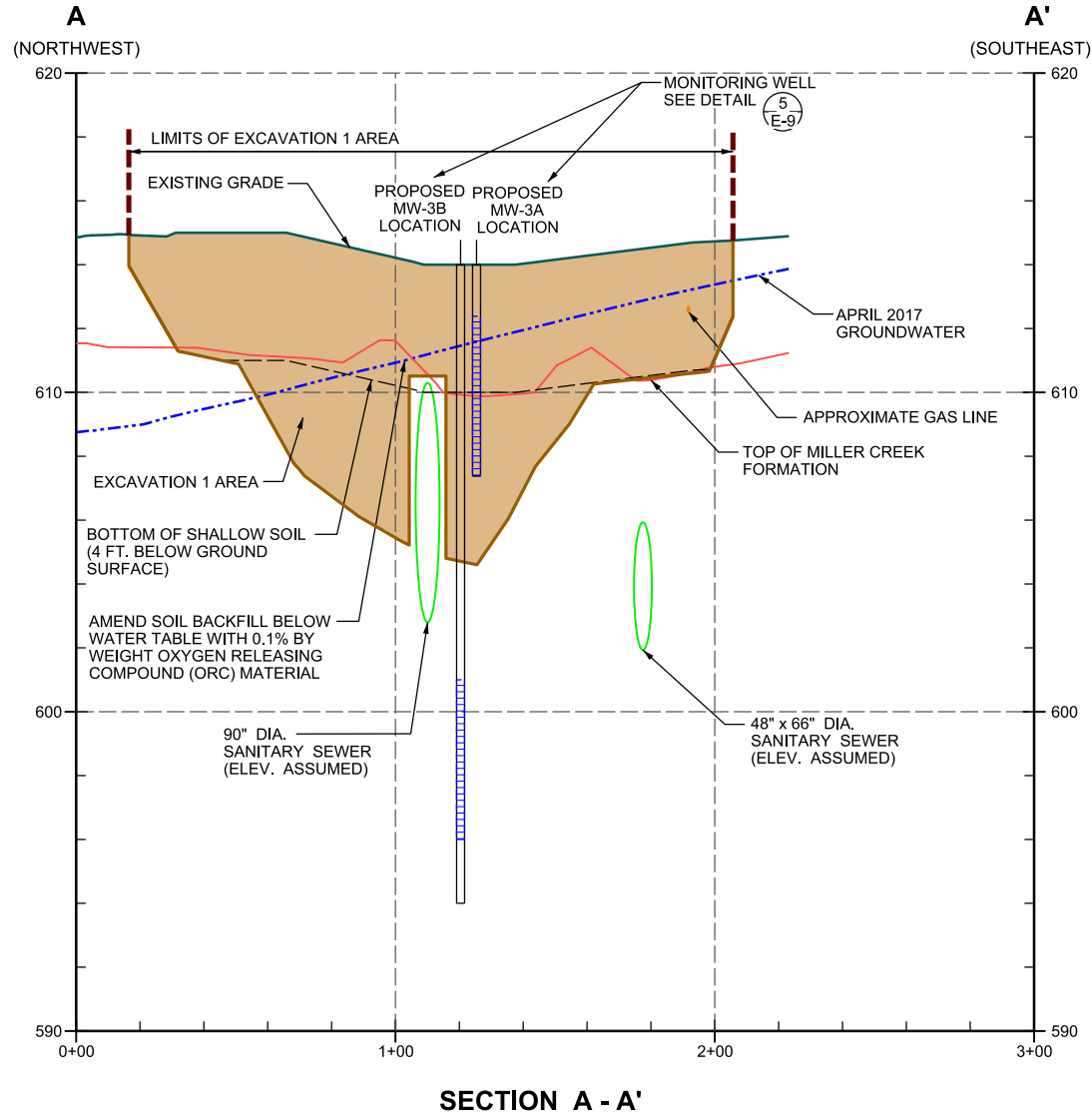
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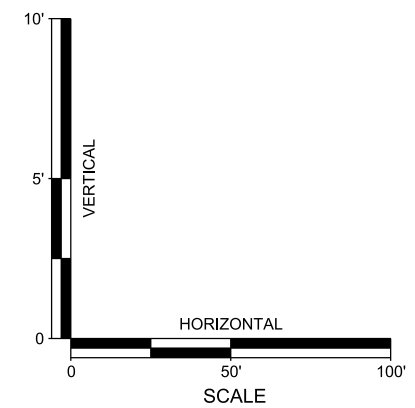


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NOTES:

1. SEE DRAWING B-1 FOR CROSS-SECTION LOCATION MAP.
2. BACKFILL AND COMPACTION OF SOIL AND AGGREGATE BENEATH THE CITY OF SUPERIOR ROADWAYS WILL COMPLY WITH THE CITY OF SUPERIOR REQUIREMENTS (OR WDOT REQUIREMENTS IF NO CITY REQUIREMENTS ARE PROVIDED).



UPLAND AREA REMEDIAL ACTION DESIGN DRAWINGS FOR THE FORMER MGP SITE
SUPERIOR WATER, LIGHT & POWER
DOUGLAS COUNTY WISCONSIN

NO.	BY	DATE	DESCRIPTION
1	AW		RECORD DRAWING OF COMPLETED CONSTRUCTION BY:
2	AW		RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

DATE OF PREPARATION
BY: _____ DATE: _____

SURVEYED		
DRAWN	JOW	OCT. 2022
DESIGNED		
CHECKED	BDS1	OCT. 2022

CROSS-SECTIONS FORMER MGP GAS HOLDER

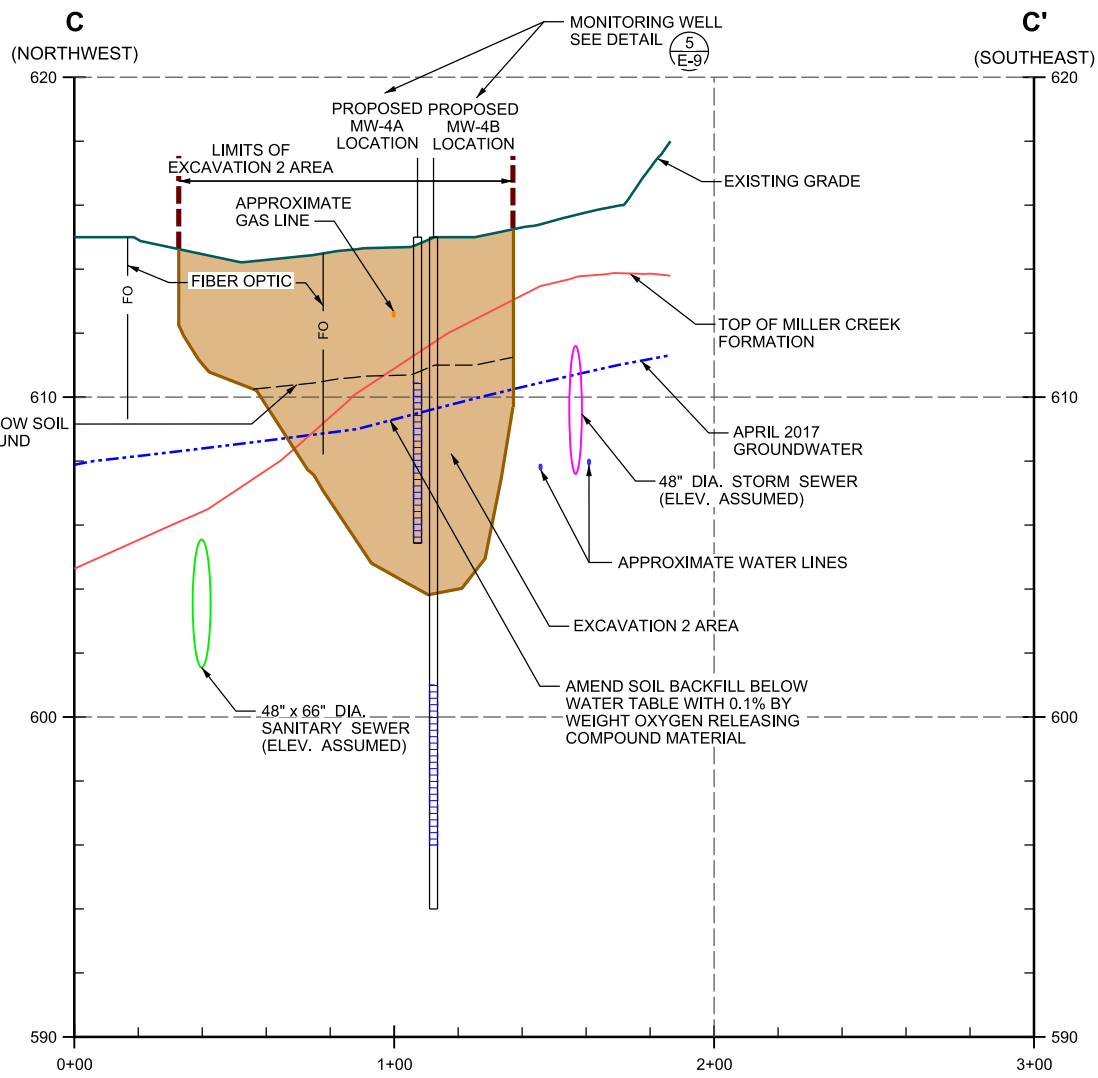
SCALE: AS SHOWN

PROJECT ID: 18S024

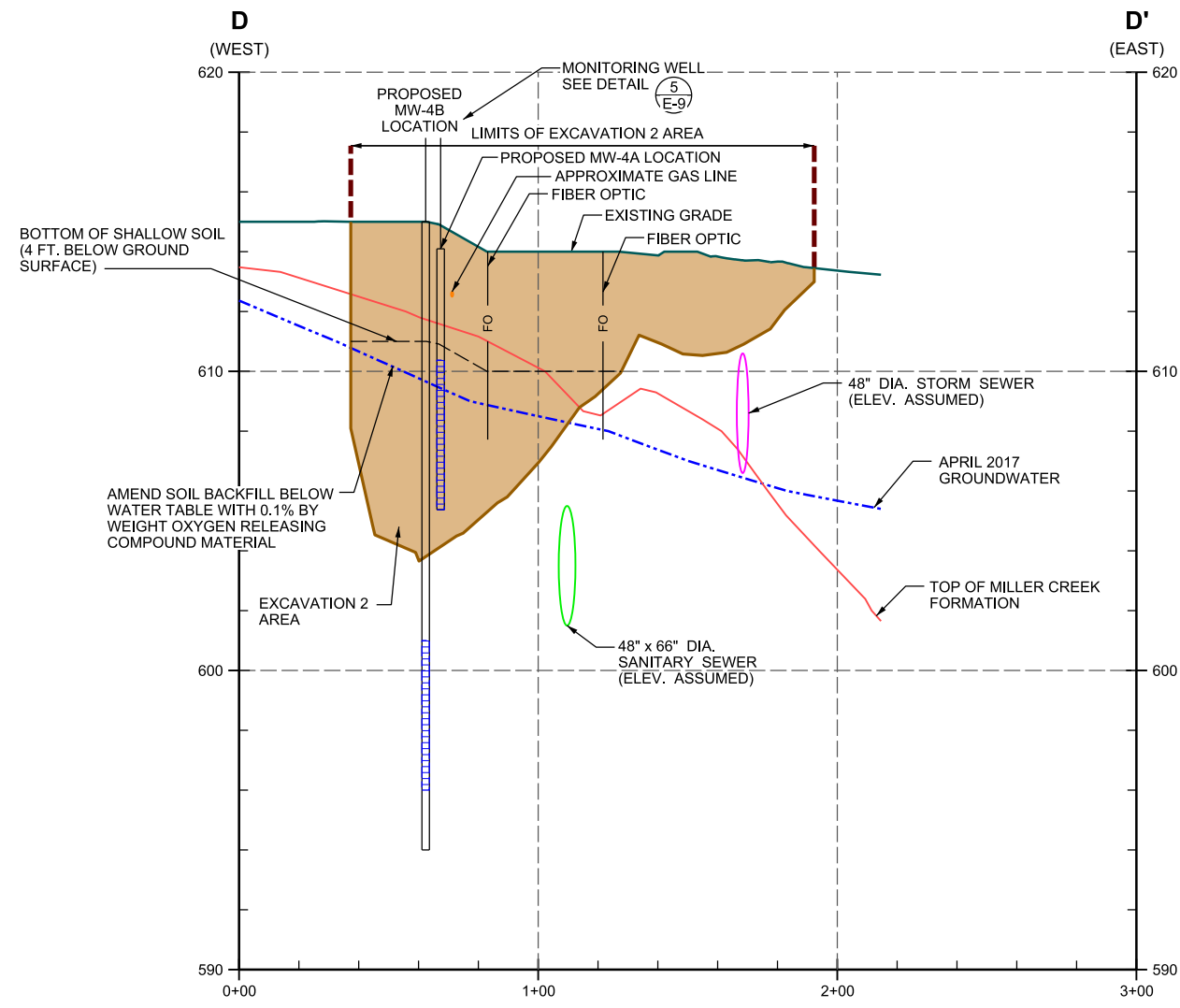
B-5



P:\Projects\185024\185024-00\CAD\Drawings\Remedial Design\100 PCT1100-Drawing B-6 Cross Sections Former Hortonsphere.dgn
 12/28/2022 12:15:52 PM JAW



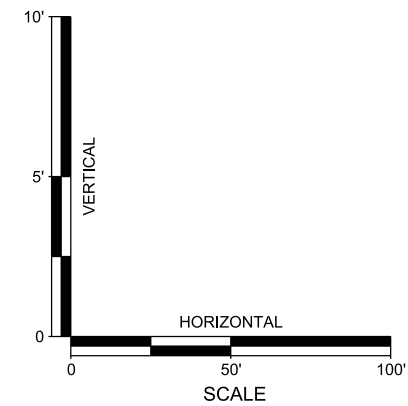
SECTION C - C'



SECTION D - D'

NOTES:

- SEE DRAWING B-1 FOR CROSS-SECTION LOCATION MAP.
- BACKFILL AND COMPACTION OF SOIL AND AGGREGATE BENEATH THE CITY OF SUPERIOR ROADWAYS WILL COMPLY WITH THE CITY OF SUPERIOR REQUIREMENTS (OR WDOT REQUIREMENTS IF NO CITY REQUIREMENTS ARE PROVIDED).



NO.	BY	DATE	DESCRIPTION
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DATE OF PREPARATION: _____ BY _____ DATE _____

	BY	DATE
SURVEYED		
DRAWN	JOW	OCT. 2022
DESIGNED		
CHECKED	BDS1	OCT. 2022

CROSS-SECTIONS FORMER HORTONSHERE

SCALE: AS SHOWN

PROJECT ID: 18S024

B-6