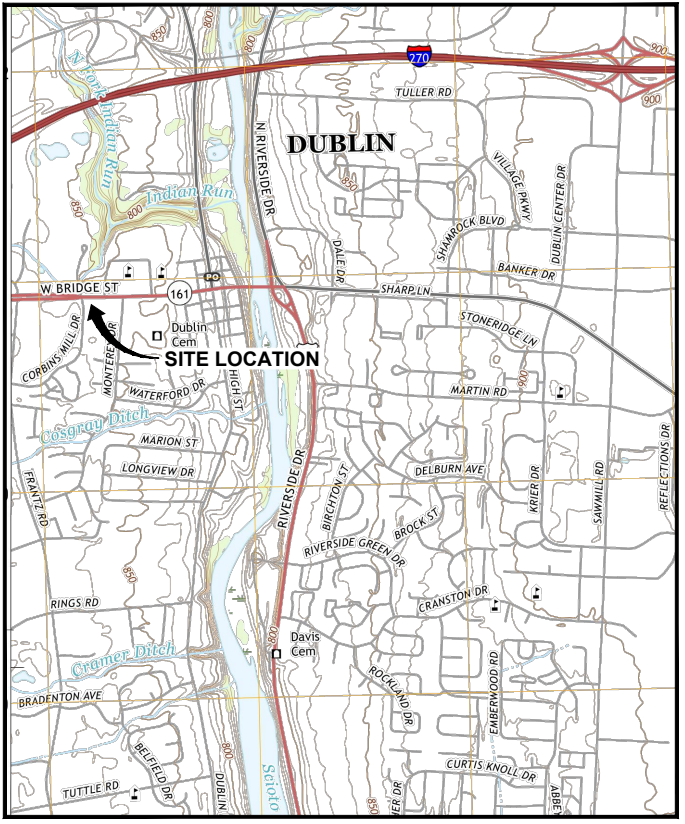


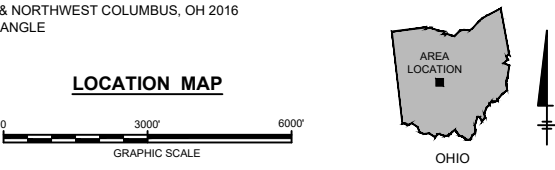
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PRIVATE SITE IMPROVEMENTS 2023 FOR 215 WEST BRIDGE STREET DUBLIN, FRANKLIN COUNTY, OHIO FORMER BP SITE NO. 28423

MULTI-PHASE EXTRACTION REMEDIATION SYSTEM DETAILS



REFERENCE: BASE MAP USGS MAPS
HILLIARD, OH 2016 & NORTHWEST COLUMBUS, OH 2016
7.5 MINUTE QUADRANGLE

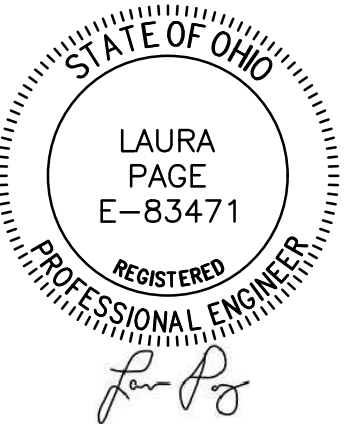


DATE ISSUED / DATE REVISED
NOVEMBER 2022
FEBRUARY 2023 - REVISION 1
APRIL 2023 - REVISION 2

BP PRODUCTS NORTH AMERICA
215 WEST BRIDGE STREET
DUBLIN, FRANKLIN COUNTY, OHIO

INDEX TO DRAWINGS

- 1 TITLE SHEET
- 2A SITE PLAN - PROPOSED SYSTEM TRAILER AND PRIVACY FENCE LOCATION
- 2B SITE PLAN - PROPOSED SYSTEM TRAILER AND PRIVACY FENCE LOCATION
- 3 EQUIPMENT TRAILER FLOOR PLAN
- 4 SYSTEM TRAILER PLAN AND ELEVATIONS
- 5 EQUIPMENT TRAILER ANCHORAGE DETAIL AND DESIGN INFORMATION
- 6 WELL CONSTRUCTION DETAILS
- 7 TYPICAL PRIVACY FENCE PANEL DETAIL
- 8 PROPOSED PARKING SPACE PLAN



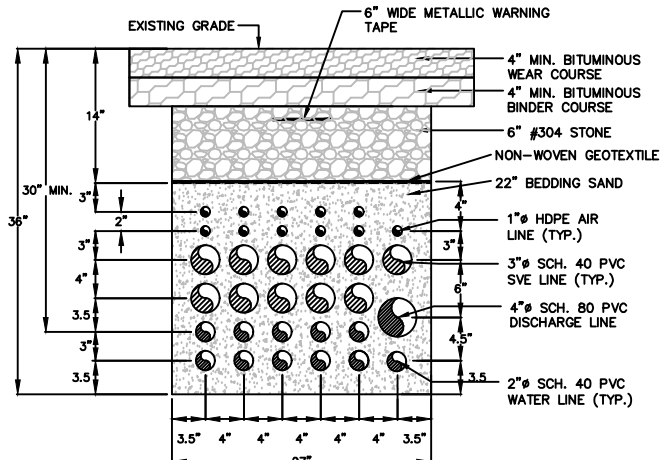
PROJECT DESCRIPTION: INSTALLATION AND OPERATION OF A MULTI-PHASE EXTRACTION (MPE) REMEDIATION SYSTEM TO ADDRESS PETROLEUM HYDROCARBON SOIL AND GROUNDWATER IMPACTS RELATED TO BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS (BUSTR) RELEASE 25001536-N00001. PROJECT INCLUDES UTILIZING PREVIOUSLY INSTALLED REMEDIATION SYSTEM PIPING, WELLS, AND MANWAYS/VAULTS. NEW SUBSURFACE PIPING WILL BE INSTALLED TO EXTEND THE EXISTING PIPING TO THE REVISED REMEDIATION SYSTEM TRAILER LOCATION AND A PORTION OF THE PREVIOUSLY INSTALLED PIPING WILL BE DECOMMISSIONED IN PLACE. ANY ASPHALT PAVEMENT REMOVED FOR THE SUBSURFACE PIPING WORK WILL BE REPLACED.

PROJECT OWNER: REMEDIATION MANAGEMENT SERVICES COMPANY, A BP AFFILIATED COMPANY.

 www.verdantas.com www.anteagroup.com	 4 HEMISPHERE WAY BEDFORD, OH 44146-4216 TEL. 440.232.9945 FAX 614.360.0023 © 2022 VERDANTAS LLC	BP PRODUCTS NORTH AMERICA INC. FORMER BP #28423 SHEET 1 TITLE SHEET 215 WEST BRIDGE STREET DUBLIN, OHIO PROJECT NO: 28423EA201.40146 REVISION: L. PAGE DATE REVISED: APRIL 2023 Filename: 28423BP-REM-SYS.dwg
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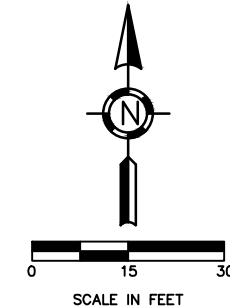
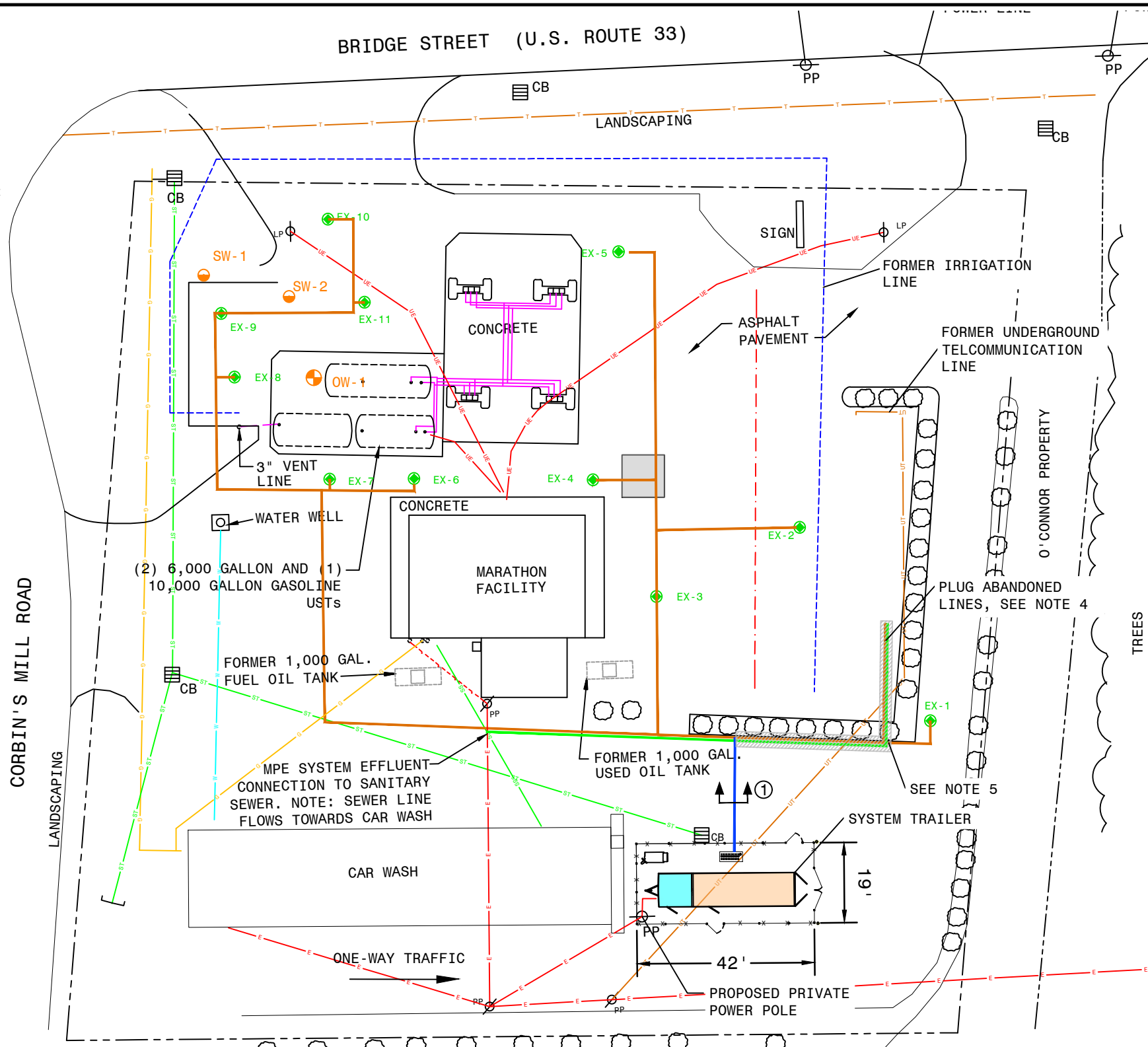
BRIDGE STREET (U.S. ROUTE 33)



1 SECTION
SCALE: 1"=1'

NOTES:

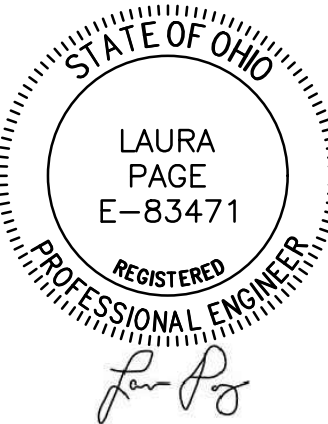
1. ONSITE TRENCHES WILL BE RESTORED TO MATCH EXISTING SURFACE COMPLETION.
2. ARRANGEMENT OF PIPES SHOWN IN TRENCH CROSS SECTIONS IS FOR DEMONSTRATIVE PURPOSES ONLY AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
3. DEPTH OF DISCHARGE LINE WILL BE DETERMINED IN THE FIELD BASED ON NECESSARY SLOPE.



- LEGEND**
- MW-19 MONITORING WELL
 - DECOMMISSIONED OR DESTROYED MONITORING WELL
 - OW-1 OBSERVATION WELL
 - SW-A SUMP WELL
 - PROPERTY LINE
 - PRODUCT LINES
 - FENCE
 - ST ST STORM SEWER
 - G G GAS LINE
 - W W WATER LINE
 - SS SS SANITARY SEWER
 - UE UE UNDERGROUND ELECTRIC
 - E E OVERHEAD ELECTRIC
 - UT UT UNDERGROUND TELECOMMUNICATION LINE
 - WATER LINE FOR IRRIGATION
 - UNKNOWN GPR ANOMOLY
 - LANDSCAPING
 - CB CATCH BASIN
 - DISPENSER ISLAND
 - EXCAVATION AREA (2013)
 - DEMOLITION AREA
 - MPE SUBSURFACE REMEDIATION SYSTEM PIPING (EXISTING)
 - 4" SCH. 40 PVC DISCHARGE LINE (EXISTING)
 - MPE SUBSURFACE REMEDIATION SYSTEM PIPING (PROPOSED)
 - EX-1 EXTRACTION WELL
 - CROSS-SECTION

NOTES:

1. LOCATION OF UTILITIES, PROPERTY LINES, AND OTHER EXISTING STRUCTURES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
2. EXTRACTION WELLS AND MULTIPLE-PHASE EXTRACTION (MPE) SUBSURFACE REMEDIATION SYSTEM PIPING, INCLUDING EFFLUENT PIPE AND SANITARY SEWER CONNECTION, WERE INSTALLED BY ARCADIS US INC. UNDER THE 2017 PTI (APPLICATION NO. 1154296) AND CITY OF DUBLIN PERMITS.
3. ALL PVC PIPE CONFORMS TO ASTM D1785. PIPING WAS INSTALLED IN ACCORDANCE WITH ASTM D2774 AND PER THE MANUFACTURER'S RECOMMENDATIONS.
4. PIPING WILL BE PLUGGED AT THE LIMITS OF DEMOLITION USING EITHER A GROUT PLUG OR MANUFACTURED PLUG OR CAP. WHEN USING A GROUT PLUG, A TEMPORARY PLUG OF BULKHEAD SHALL BE PLACED 12 INCHES INSIDE THE PIPE. THE PIPE END SHALL BE FILLED COMPLETELY WITH DRY-PACK GROUT MIXTURE. WHEN USING A MANUFACTURED PLUG OR CAP, A FITTING SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER'S INSTRUCTIONS, TO FORM A WATERTIGHT SEAL.
5. ONE SET OF EXISTING MPE PIPING (AIR LINE, SVE, WATER) IN EXISTING TRENCH WITHIN THE DEMOLITION AREA SHALL BE RE-USED AND CONNECTED TO PIPING FOR EX-1 AND BROUGHT INTO NEW PROPOSED TRENCH FOR MPE SUBSURFACE REMEDIATION SYSTEM PIPING.
6. EXCAVATION AREAS WILL BE RESTORED TO MATCH EXISTING SURFACE COMPLETION.



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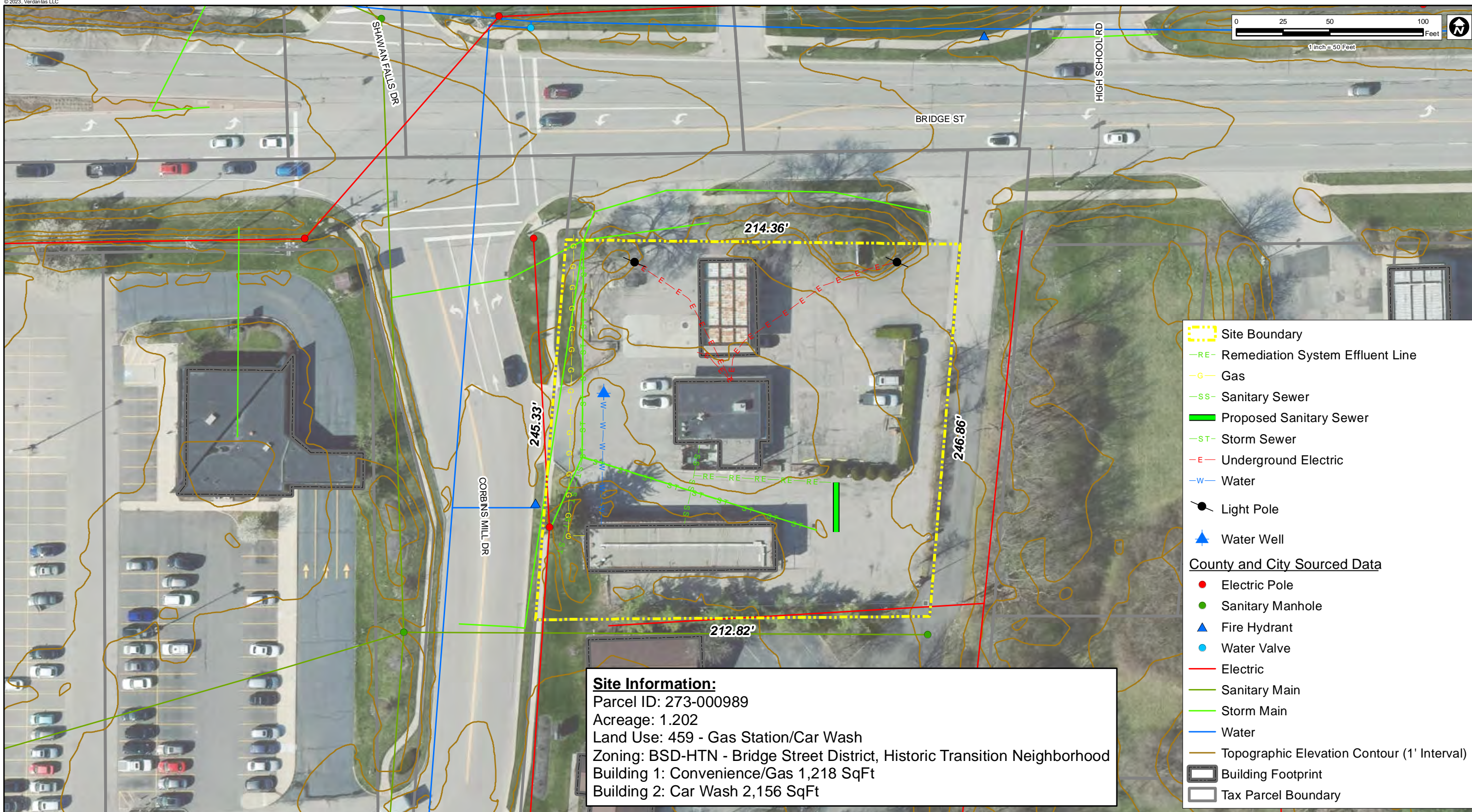
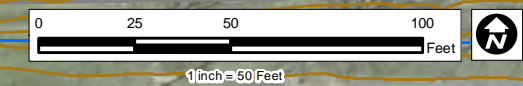
BP PRODUCTS NORTH AMERICA INC.
FORMER BP #28423

SHEET 2B

SITE PLAN - PROPOSED SYSTEM TRAILER AND PRIVACY FENCE LOCATION

215 WEST BRIDGE STREET
DUBLIN, OHIO

PROJECT NO: 28423EA201.40146
REVISED BY: L. PAGE
Filename: 28423BP-REM-SYS.dwg
DATE REVISED: FEBRUARY 2023



- Site Boundary
 - Remediation System Effluent Line
 - Gas
 - Sanitary Sewer
 - Proposed Sanitary Sewer
 - Storm Sewer
 - Underground Electric
 - Water
 - Light Pole
 - Water Well
- County and City Sourced Data**
- Electric Pole
 - Sanitary Manhole
 - Fire Hydrant
 - Water Valve
 - Electric
 - Sanitary Main
 - Storm Main
 - Water
 - Topographic Elevation Contour (1' Interval)
 - Building Footprint
 - Tax Parcel Boundary

Site Information:
 Parcel ID: 273-000989
 Acreage: 1.202
 Land Use: 459 - Gas Station/Car Wash
 Zoning: BSD-HTN - Bridge Street District, Historic Transition Neighborhood
 Building 1: Convenience/Gas 1,218 SqFt
 Building 2: Car Wash 2,156 SqFt

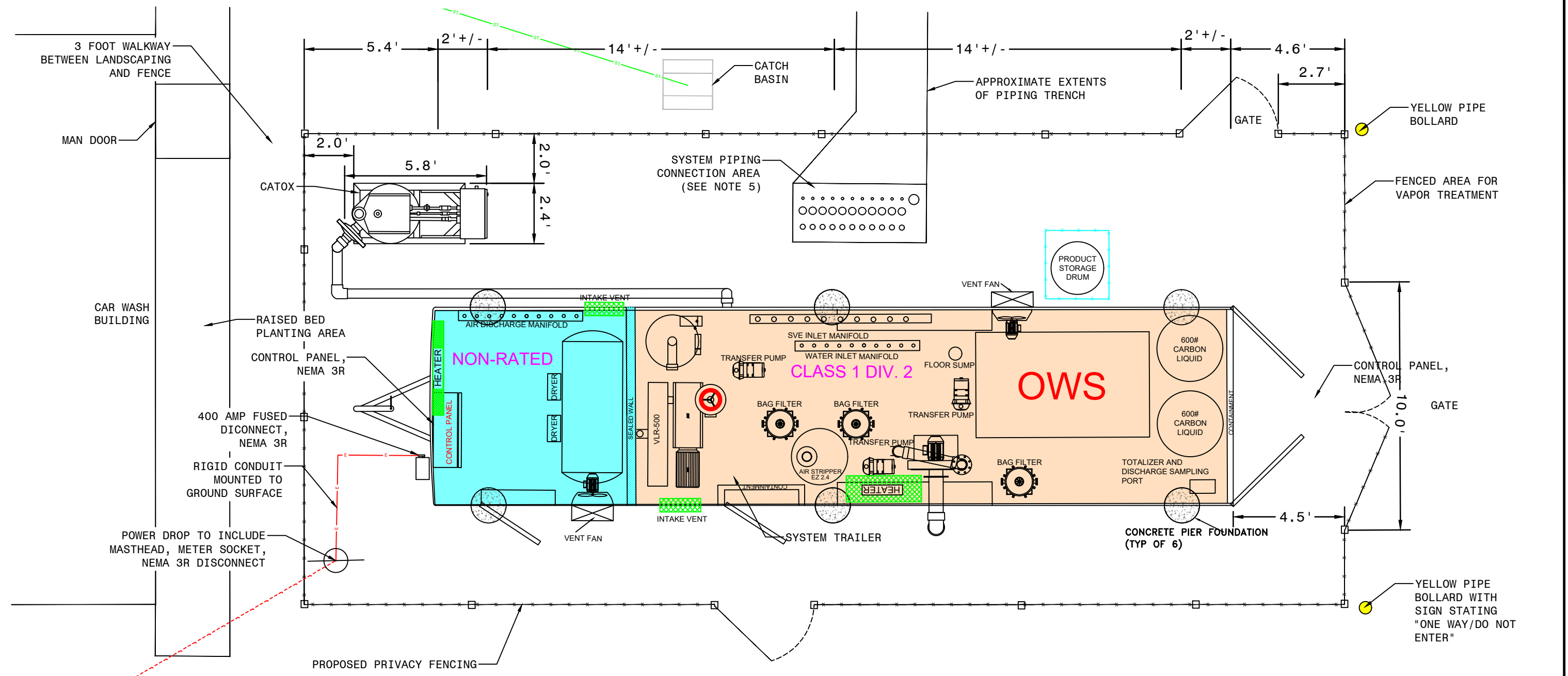
Note:
 The aerial photo was acquired through the Esri Imagery Web Service.
 Aerial photography dated 2021.



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April 2023	
BP Products North America Inc. Former BP Site #28423	
Site Plan - Proposed System Trailer and Privacy Fence Location	
215 West Bridge Street Dublin, Franklin County, Ohio	
Figure	2A

CITY/COLUMBUS, OHIO DIV/GRP/UP/SE/1 DB/R/SMITH LD/ODT PIC/CHI PM/E/SHOWALTER TM/OPT LVR/OP/ON/OFF/REF/EEF
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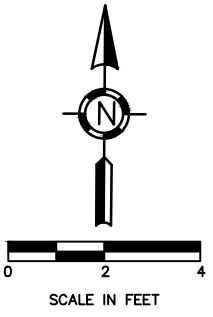
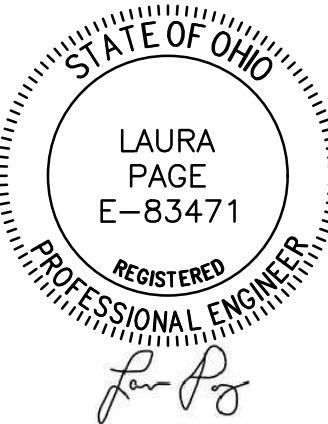
LEGEND

- FENCE
- ELECTRIC
- STORM SEWER
- LANDSCAPING

NOTES:

1. 3 PHASE 400 AMP 120 /280 VAC ELECTRIC SERVICE TO BE PROVIDED BY AMERICAN ELECTRIC POWER (AEP). POLE LOCATION WITHIN FENCED AREA MAY CHANGE BASED ON OVERHEAD FEED LINE LOCATION. TEMPORARY POWER SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH THE AEP GUIDE FOR ELECTRIC SERVICE AND METER INSTALLATIONS, 2022 REV1.0 OR CURRENT REVISION.
2. GROUNDING SHALL BE IN ACCORDANCE WITH NEC AND INCLUDE A MINIMUM OF TWO 8-FOOT 5/8-INCH DIAMETER COPPER OR COPPER CLAD DRIVEN RODS PLACED 6- FEET APART WITH A BARE #6 CU MINIMUM.
3. REMEDIATION SYSTEM ELECTRICAL REQUIREMENTS: 3 PHASE 120 /208 VAC, 60 HZ, 226 FLA.
4. CONTROL PANEL AND EXTERIOR MOUNTED PANELS (DISCONNECTS AND METER SOCKET) ARE NEMA 3R.
5. ALL PIPING TO TRANSITION TO SCH. 80 PVC AT SYSTEM PIPING CONNECTION AREA.

MULTIPLE-PHASE EXTRACTION SYSTEM PIPING SCHEDULE		
PROCESS	SIZE	MATERIAL
AIR SUPPLY	1"	GALVANIZED STEEL (EXPOSED) HDPE (BURIED)
INFLUENT WATER	2"	SCH. 40 PVC (BURIED); SCH 80 PVC (ABOVEGROUND)
SVE	3"	SCH. 40 PVC (BURIED); SCH 80 PVC (ABOVEGROUND)
TREATED WATER (DISCHARGE)	4"	SCH. 80 PVC



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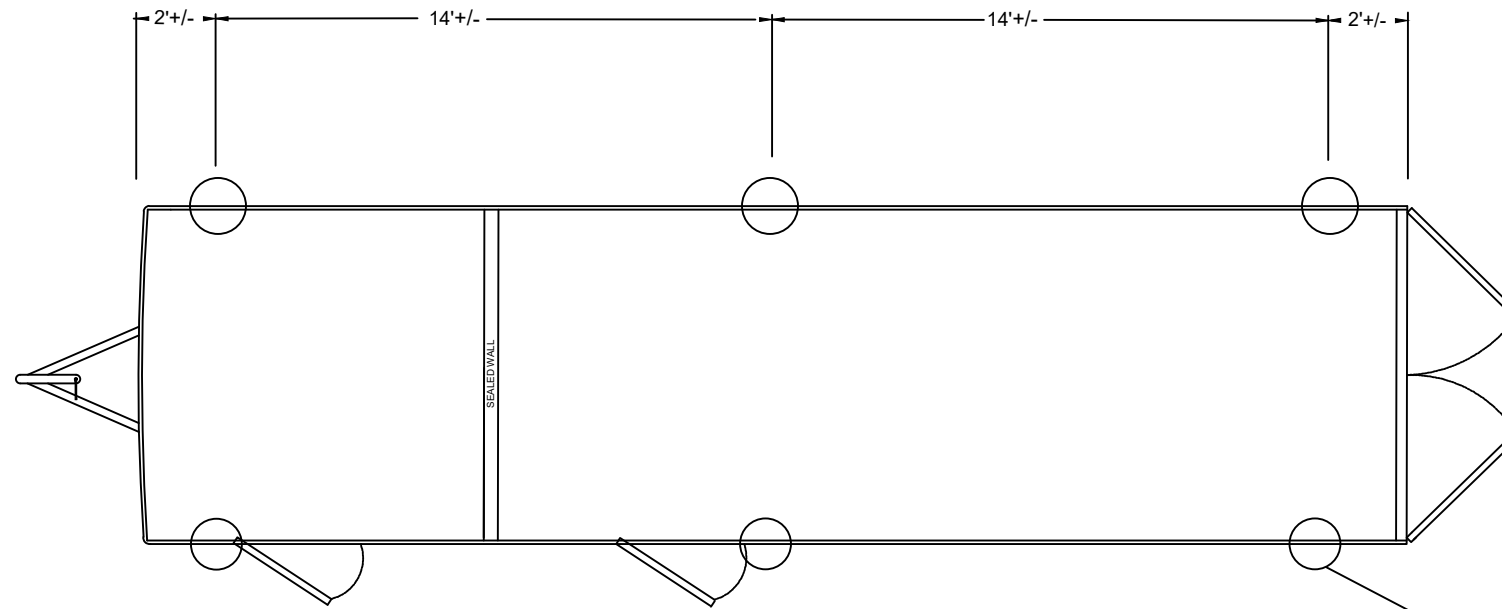
BP PRODUCTS NORTH AMERICA INC.
FORMER BP #28423
SHEET 3
EQUIPMENT TRAILER FLOOR PLAN

215 WEST BRIDGE STREET
DUBLIN, OHIO

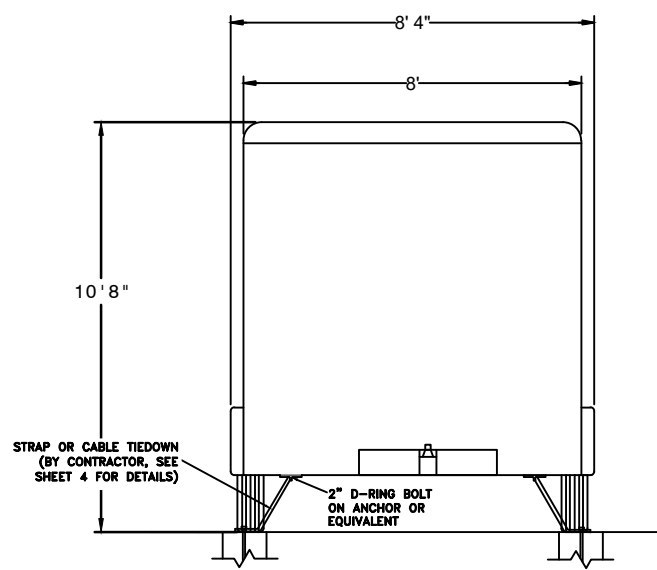
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DATE REVISED: APRIL 2023

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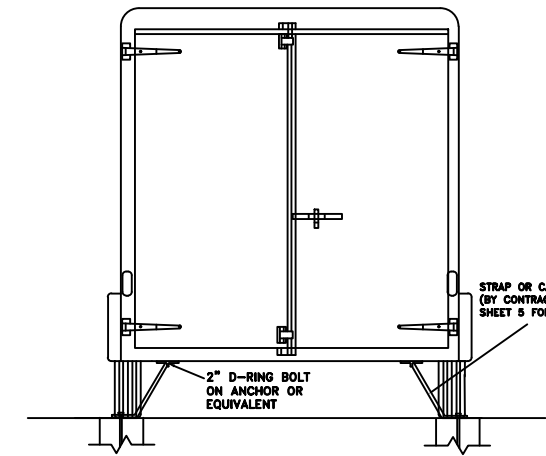
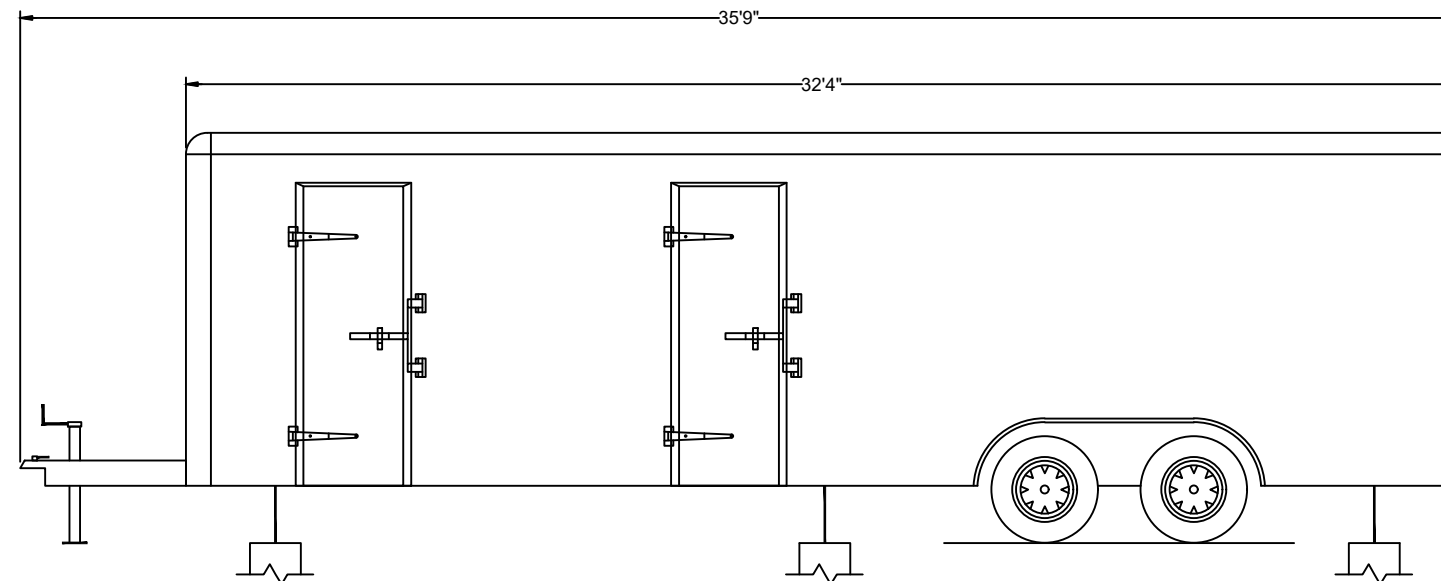


CONCRETE PIER FOUNDATION (TYP OF 6)



STRAP OR CABLE TIEDOWN (BY CONTRACTOR, SEE SHEET 4 FOR DETAILS)

2" D-RING BOLT ON ANCHOR OR EQUIVALENT



STRAP OR CABLE TIEDOWN (BY CONTRACTOR, SEE SHEET 5 FOR DETAILS)

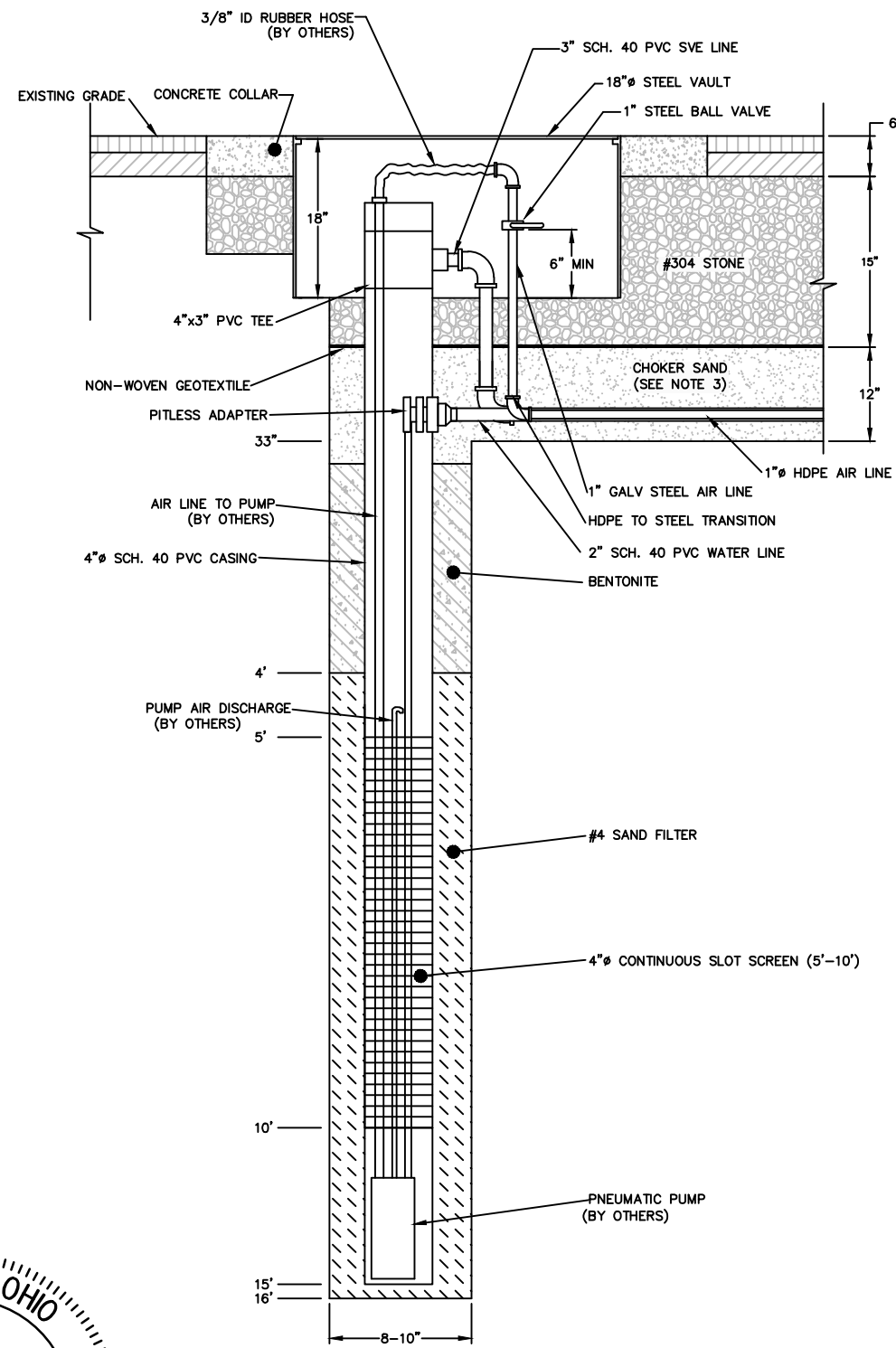
2" D-RING BOLT ON ANCHOR OR EQUIVALENT

NOTE:
TRAILER FRAME WILL BE SUPPORTED BY TREATED LUMBER OR SOLID CONCRETE BLOCK CRIBBING.

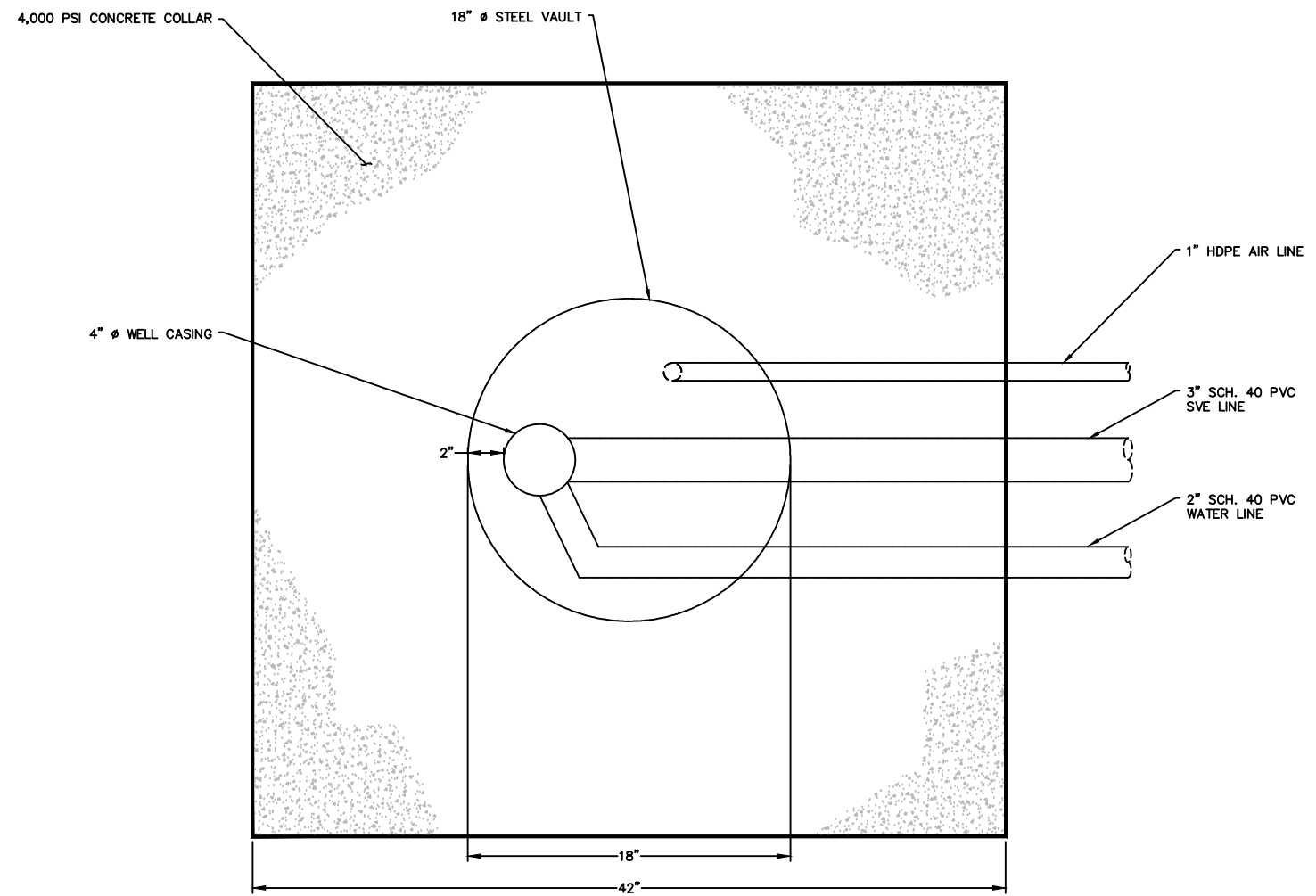


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		SHEET 4 SYSTEM TRAILER PLAN AND ELEVATIONS	
		215 WEST BRIDGE STREET DUBLIN, OHIO	
		PROJECT NO: 28423EA201.40146 Filename: 28423BP-REM-SYS.dwg	REVISED BY: L. PAGE DATE REVISED: APRIL 2023

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EXTRACTION WELL DETAIL
NOT TO SCALE



CONCRETE PAD DETAIL
NOT TO SCALE

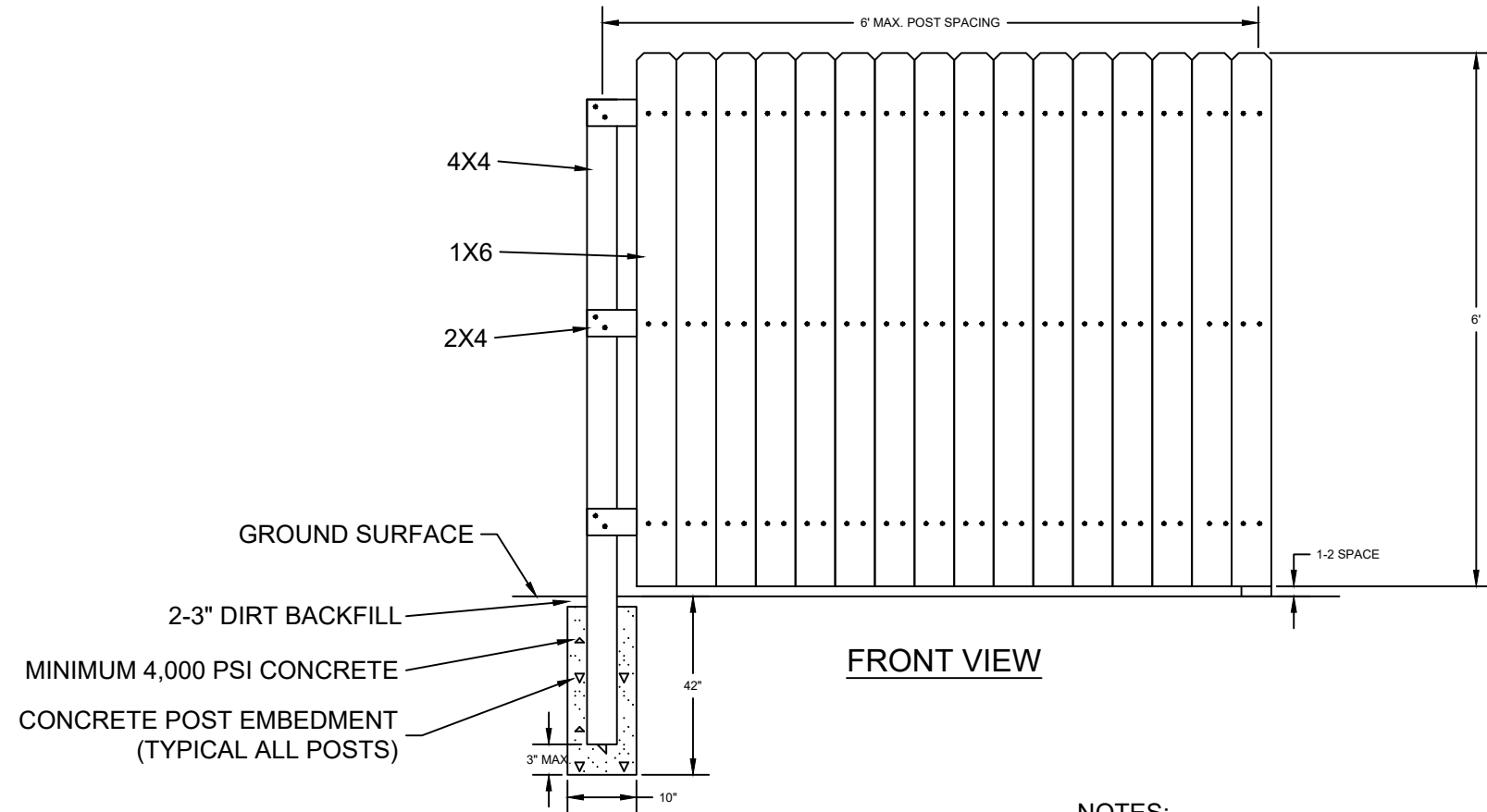
NOTES:

- EXTRACTION WELLS AND MULTIPLE-PHASE EXTRACTION PIPING PREVIOUSLY INSTALLED BY ARCADIS US INC. UNDER THE 2017 PTI (APPLICATION NO. 1154296).
- ALL PVC PIPE CONFORMS TO ASTM D1785. ALL STEEL PIPE CONFORMS TO ASTM A53. ALL HDPE PIPE CONFORMS TO ASTM 3350.
- SECTIONS OF TRENCH LOCATED WITHIN APPROXIMATELY 10 FEET OF AN EXTRACTION WELL WERE SEALED ALONG THE BOTTOM WITH A MINIMUM OF 12 INCHES OF LOW PERMEABILITY BACKFILL, SUCH AS CHOKER SAND.

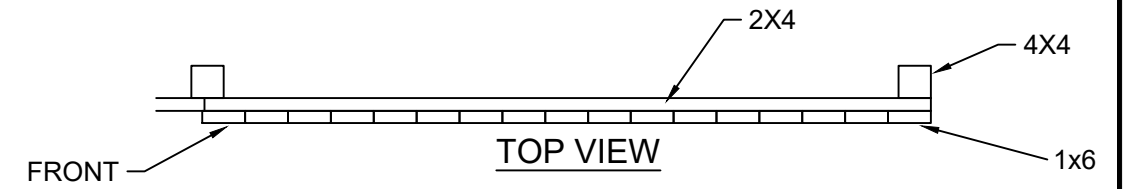


		BP PRODUCTS NORTH AMERICA INC. FORMER BP #28423 SHEET 6 WELL CONSTRUCTION DETAILS 215 WEST BRIDGE STREET DUBLIN, OHIO	
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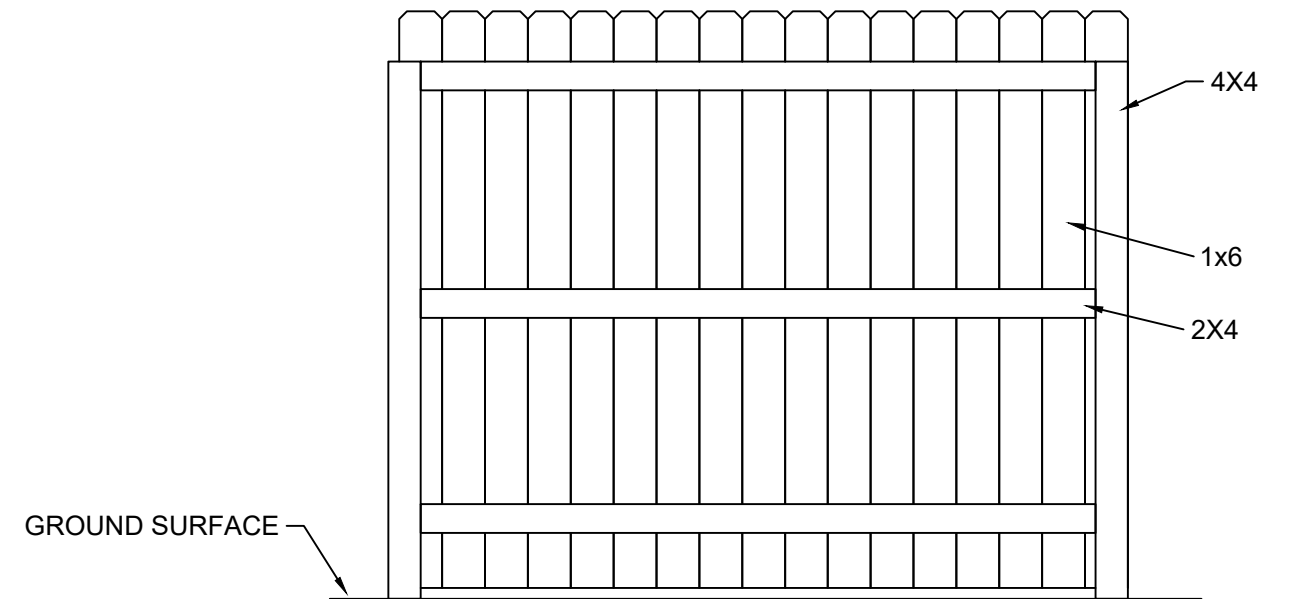
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FRONT VIEW



TOP VIEW





REAR VIEW

NOT TO SCALE

NOTES:

1. FENCE WILL BE MADE OF WOOD.
2. FENCE WILL BE PAINTED WHITE.
3. VERIFY POST SPACING AND EMBEDMENT WITH FENCE MANUFACTURER.
4. FENCE TO BE RATED FOR 20 PSF WIND LOAD (SERVICE).



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