



Waste & Recycling Services

3990 Generation Drive, Cincinnati, OH 45251
Phone: 1-800-828-8171 Fax: 513-851-2057



February 8, 2023

ELECTRONIC SUBMISSION

Ms. Yingjia Zhu
Ohio EPA, Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

**RE: Bond Road Site, Inc.
Alteration # 8
PTI# 05-7097
Proposed Leachate Loadout Update**

Dear Ms. Zhu:

Bond Road Site, Inc. is providing the attached Proposed Leachate Loadout Alteration. The alteration is being submitted to provide an update to the current facility's leachate loadout area with the current PTI submittal (PTI # 05-7097) and has the following attachments:

- Updated PTI drawings (6 pages) showing the proposed updated leachate loadout area.

If you have any questions, please do not hesitate to contact me via phone at (513) 851-0122 ext. 3148 or via email at james.westerfield@rumpke.com.

Sincerely,

BOND ROAD SITE, INC.

James Westerfield

James Westerfield (Feb 8, 2023 08:50 EST)

James Westerfield,
Site Engineer

Enclosure

cc: Greg Kesterman- Hamilton County Health Commissioner
Chris Jaquet - Rumpke Director EEAD
John Butler - Rumpke West Area Senior Site Engineer
Larry Riddle - Rumpke Site Manager

www.rumpke.com



Recognizing private company success

**APPLICANT NOTARIZED STATEMENT
PER OAC 3745-27-08(H)**

**Bond Road Site, Inc.
Hamilton County, Ohio**

I, William J. Rumpke III, being Regional Vice President of Bond Road Site, Inc., do hereby certify that to the best of my knowledge, the detail engineering plans, specifications, and information in the attached submittal are true and accurate.

SIGNATURE: William J Rumpke III
William J Rumpke III (Feb 8, 2023 15:31 EST)

DATE: Feb 8, 2023

Name: William J. Rumpke III

Title: Regional Vice President

Address: 10795 Hughes Road - Cincinnati, Ohio 45251

Telephone: 513-851-0122 - ext. 5210

Sworn to me and subscribed in my presence this 8th day of February, 2023.



AMBER M. ROWELL
NOTARY PUBLIC • STATE OF OHIO
Commission No. 2021-RE-836973
My Commission Expires 9/8/26

AmRowell
Notary Public
My Commission Expires September 8, 2026











Bond_Road_Leachate_Pad_Alteration_8_Cover_Letter

Final Audit Report

2023-02-08

Created:	2023-02-08
By:	Amber Rowell (amber.rowell@rumpke.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAABYImehugpoXSRG2WkLNjKZrsTK6h75m

"Bond_Road_Leachate_Pad_Alteration_8_Cover_Letter" History

-  Document created by Amber Rowell (amber.rowell@rumpke.com)
2023-02-08 - 1:33:34 PM GMT
-  Document emailed to james.westerfield@rumpke.com for signature
2023-02-08 - 1:41:03 PM GMT
-  Email viewed by james.westerfield@rumpke.com
2023-02-08 - 1:49:58 PM GMT
-  Signer james.westerfield@rumpke.com entered name at signing as James Westerfield
2023-02-08 - 1:50:25 PM GMT
-  Document e-signed by James Westerfield (james.westerfield@rumpke.com)
Signature Date: 2023-02-08 - 1:50:27 PM GMT - Time Source: server
-  Document emailed to billy.rumpke@rumpke.com for signature
2023-02-08 - 1:50:28 PM GMT
-  Email viewed by billy.rumpke@rumpke.com
2023-02-08 - 8:30:59 PM GMT
-  Signer billy.rumpke@rumpke.com entered name at signing as William J Rumpke III
2023-02-08 - 8:31:14 PM GMT
-  Document e-signed by William J Rumpke III (billy.rumpke@rumpke.com)
Signature Date: 2023-02-08 - 8:31:16 PM GMT - Time Source: server
-  Agreement completed.
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BOND ROAD LANDFILL

WHITEWATER TOWNSHIP, HAMILTON COUNTY, OHIO

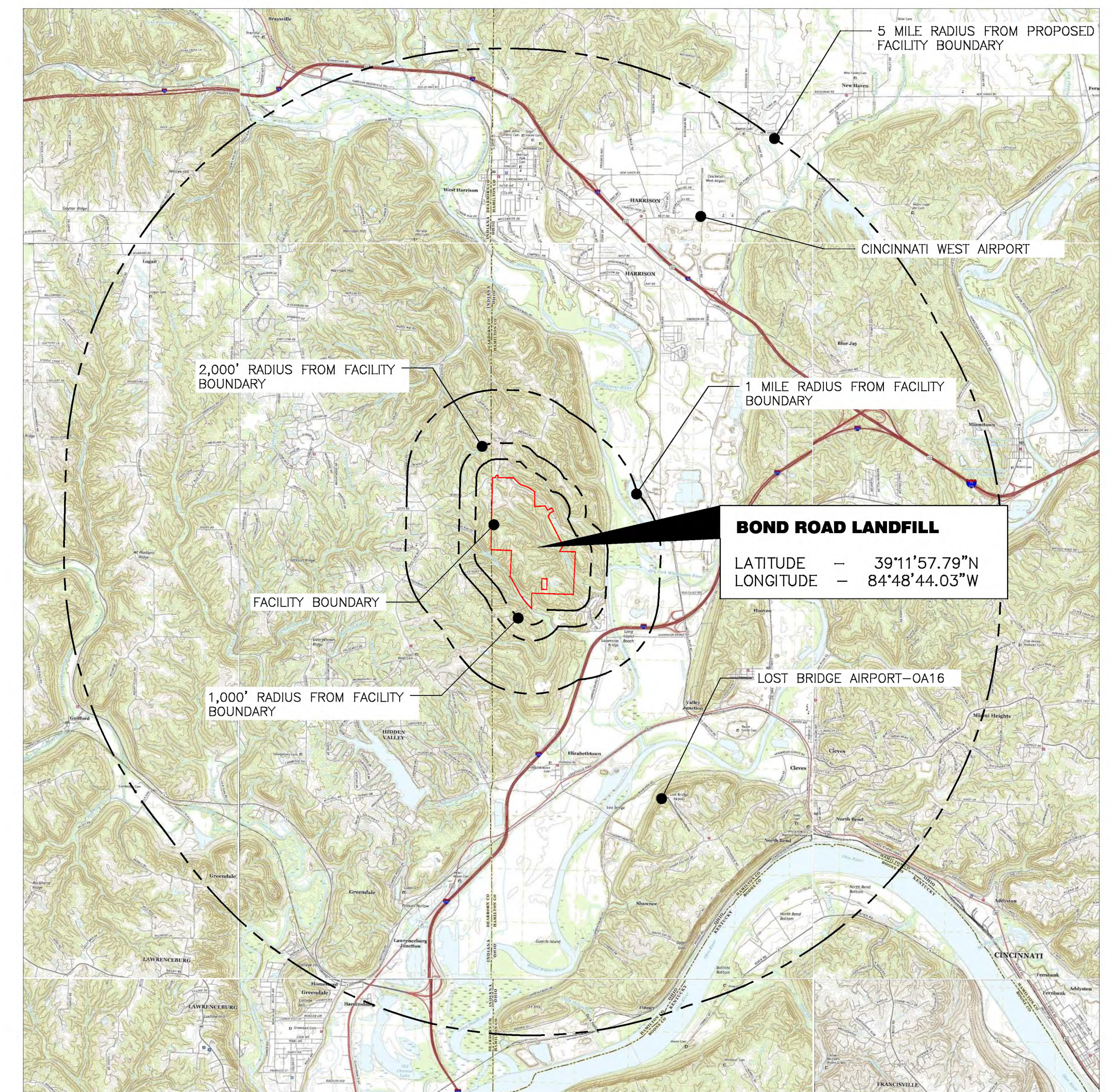
ALTERATION NO. 8

APPLICANT/OWNER/OPERATOR:
 BOND ROAD SITE, INC.
 3990 GENERATION DRIVE
 CINCINNATI, OHIO 45251
 513-851-0122

INDEX OF DRAWINGS

DRAWING NO.	YEAR LAST MODIFIED	ALTERATION NO.	SHEET TITLE
1	2023	8	COVER SHEET
2A-0	2021	7	SOIL BORING LOGS
2A-1	2021	7	SURVEY PLAT
2A-2	2021	7	SURVEY PLAT
2B-0	2021	7	WATER WELL LOCATIONS, LAND USES & EXPLOSIVE GAS MIGRATION
2B-1	2021	7	WATER WELL LOCATIONS, LAND USES & EXPLOSIVE GAS MIGRATION
2B-2	2021	7	WATER WELL LOCATIONS, LAND USES & EXPLOSIVE GAS MIGRATION
3A-0	2021	7	UTILITIES & GROUND WATER CONTROL
3A-1	2021	7	UTILITIES & GROUND WATER CONTROL
3A-2	2021	7	UTILITIES & GROUND WATER CONTROL
3B-0	2021	7	GAS WELLS & TESTING STATIONS
3B-1	2021	7	GAS WELLS & TESTING STATIONS
3B-2	2021	7	GAS WELLS & TESTING STATIONS
3C-0	2021	7	SOIL BORINGS & MONITORING WELLS
3C-1	2021	7	SOIL BORINGS & MONITORING WELLS
3C-2	2021	7	SOIL BORINGS & MONITORING WELLS
3D-0	2021	7	POTENTIOMETRIC SURFACE SHALLOW BEDROCK (03/22/94)
3D-1	2021	7	POTENTIOMETRIC SURFACE SHALLOW BEDROCK (03/22/94)
3D-2	2021	7	POTENTIOMETRIC SURFACE SHALLOW BEDROCK (03/22/94)
3E-0	2021	7	REMNANTS OF SHALLOW WEATHERED BEDROCK
3E-1	2021	7	REMNANTS OF SHALLOW WEATHERED BEDROCK
3E-2	2021	7	REMNANTS OF SHALLOW WEATHERED BEDROCK
3F-0	2023	8	PHASE 1 FILL, PHASE 2 PREPARATION
3F-1	2023	8	PHASE 1 FILL, PHASE 2 PREPARATION
3G-0	2021	7	PHASE 2 FLOOR
3G-1	2021	7	PHASE 2 FLOOR
3G-2	2021	7	PHASE 2 FLOOR
3H-0	2021	7	PHASE 2 FILL, PHASE 3 PREPARATION
3H-1	2021	7	PHASE 2 FILL, PHASE 3 PREPARATION
3H-2	2021	7	PHASE 2 FILL, PHASE 3 PREPARATION
3J-0	2021	7	PHASE 3 FLOOR
3J-1	2021	7	PHASE 3 FLOOR
3J-2	2021	7	PHASE 3 FLOOR
3K-0	2021	7	PHASE 3 FILL
3K-1	2021	7	PHASE 3 FILL
3K-2	2021	7	PHASE 3 FILL
3L-0	2021	7	PHASE 4 FILL
3L-1	2021	7	PHASE 4 FILL
3L-2	2021	7	PHASE 4 FILL
3M-0	2021	7	FINAL CAP
3M-1	2021	7	FINAL CAP
3M-2	2021	7	FINAL CAP
4A	1999	1	EXCAVATION PLAN
4B	1999	1	BOTTOM OF CLAY LINER PLAN

DRAWING NO.	YEAR LAST MODIFIED	ALTERATION NO.	SHEET TITLE
4C	1999	1	FLOOR PLAN
4D	1999	1	REFUSE LIMIT PLAN
4E	1999	1	FINAL GRADING PLAN
5A	1999	1	NORTH CROSS SECTIONS (N 82+50 - N 95+00)
5B	1999	1	NORTH CROSS SECTIONS (N 97+50 - N 107+50)
5C	1995	ORIGINAL	EAST CROSS SECTIONS (E 65+00 - E 77+50)
5D	1999	1	EAST CROSS SECTIONS (E 80+00 - E 87+50)
5E	1999	1	EAST CROSS SECTIONS (E 90+00 - E 100+00)
5F	1994	ORIGINAL	CROSS-SECTION TRACES
5G	1994	ORIGINAL	CROSS-SECTIONS A-A' - B-B'
5H	1994	ORIGINAL	CROSS-SECTIONS C-C' - D-D'
5J	1994	ORIGINAL	CROSS-SECTIONS E-E' - F-F'
5K	1994	ORIGINAL	CROSS-SECTIONS G-G' - H-H'
5L	1994	ORIGINAL	CROSS-SECTIONS I-I' - J-J'
5M	1995	ORIGINAL	GAS MIGRATION PATHWAYS PROFILE
5N	-	ORIGINAL	BORE HOLE LOGS
5P	-	ORIGINAL	BORE HOLE LOGS
5Q	1988	ORIGINAL	CORE HOLE LOGS
5R	1988	ORIGINAL	SOIL BORING LOGS
5S	1988	ORIGINAL	SOIL BORING LOGS
5T	1988	ORIGINAL	SOIL BORING LOGS
5U	1988	ORIGINAL	SOIL BORING LOGS
5V	-	ORIGINAL	SOIL BORING LOGS
5W	-	ORIGINAL	SOIL BORING LOGS
5X	1995	ORIGINAL	SOIL BORING LOGS
5Y	1995	ORIGINAL	BORE HOLE LOGS
5Z	1995	ORIGINAL	BORE HOLE LOGS
6A	2023	8	PHASE 1 FILL, PHASE 2 PREPARATION
6B	1999	1	PHASE 2 FLOOR
6C	1999	1	PHASE 2 FILL, PHASE 3 PREPARATION
6D	1999	1	PHASE 3 FLOOR
6E	1999	1	PHASE 3 FILL
6F	1999	1	PHASE 4 FILL
6G	1999	1	FINAL CAP
7A	1999	1	STORM DRAINAGE PROFILE PLAN
7B	1999	1	STORM DRAINAGE PROFILES
7C	1995	1	STORM DRAINAGE PROFILES
7D	1995	ORIGINAL	STORM DRAINAGE DETAILS
7E	1999	1	SILT POND DETAILS
7F	1995	ORIGINAL	ACCESS ROAD PROFILE & DETAILS
7F1	2021	7	SITE ENTRANCE ROAD PROFILE
7G	1995	ORIGINAL	LINER, CAP AND WELL DETAILS
7H	1997	ORIGINAL	LIFT STATION & STORAGE TANK DETAILS
7J	2023	8	EXISTING LIFT STATION AND LOAD STATION
7J-1	2023	8	IMPROVEMENTS TO EXISTING LOAD STATION
7K	-	ORIGINAL	GAS EXTRACTION DETAILS
7L	2021	7	MISCELLANEOUS DETAILS



7.5-MINUTE MAP FOR HOOVEN, OH, IN, KY 2019
 7.5-MINUTE MAP FOR ADDYSTON, OH, KY 2019
 7.5-MINUTE MAP FOR BURLINGTON, KY, OH 2019
 7.5-MINUTE MAP FOR CEDAR GROVE, IN 2019
 7.5-MINUTE MAP FOR LAWRENCEBURG, IN, KY, OH 2019
 7.5-MINUTE MAP FOR SHANDON, OH 2019
 7.5-MINUTE MAP FOR HARRISON, OH, IN 2019
 7.5-MINUTE MAP FOR GUILFORD, IN 2019
 7.5-MINUTE MAP FOR AURORA, IN, KY 2019

SITE LOCATION MAP
 SCALE: 1" = 1 MILE 0 1 MILE

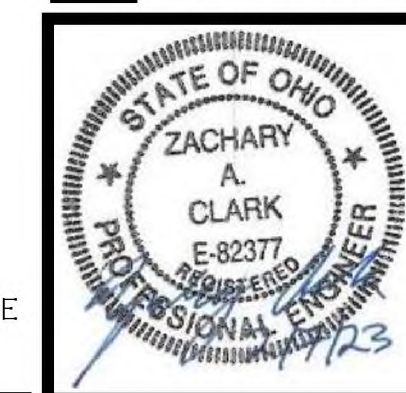
ALTERATION 8 PREPARED BY:
 CARDINAL ENGINEERING CORPORATION
 1 MOOCK ROAD
 WILDER, KY 41071
 859-581-9600

- ALTERATION 8 NOTES:
- LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE REVISIONS FOR ALTERATION NO. 8 PREPARED BY CARDINAL ENGINEERING CORPORATION. PREVIOUS DRAWING AND PERMIT DOCUMENTS WERE PREPARED BY OTHERS AND PROVIDED TO CARDINAL ENGINEERING CORPORATION BY RUMPKER.
 - THE INTENT OF THIS DESIGN IS TO UPDATE THE BOND ROAD LANDFILL LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE DURING PHASE 1 FILLING AND PHASE 2 PREPARATION, THE EXISTING LIMITS OF WASTE ARE NOT BEING MODIFIED AS PART OF THIS ALTERATION.
 - EXISTING STREAM AND WETLAND LOCATIONS ON DRAWING 6A WERE UPDATED BASED ON A DELINEATION COMPLETED BY ENVIRONMENT AND ARCHAEOLOGY, LLC.
 - EXISTING TOPOGRAPHY ON DRAWING 6A WAS UPDATED BASED ON A SURVEY CONDUCTED BY M.A.N. MAPPING SERVICES, DATED 2/5/2021.

ORIGINAL PERMIT DRAWINGS PREPARED BY ZORN ENGINEERING AND APPROVED BY OEPA MARCH 17, 1998
 REVISED FOR ALTERATION NO. 1 SEPTEMBER 1999 BY H.C. NUTTING COMPANY, CINCINNATI, OHIO
 REVISED FOR ALTERATION NO. 7 FEBRUARY 2022 BY ARCADIS U.S. INC.

NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. 8.

1 - REVISED FOR ALTERATION 8 DATED 02/06/2023



SCALE	AS SHOWN
DRAWN BY:	ZAC 2/6/23
CHECKED BY:	JSF 2/6/23
APPROVED BY:	ZAC 2/6/23
ALTERATION 8	2/6/23
ALTERATION 7	12/15/21
REVISIONS	DATE

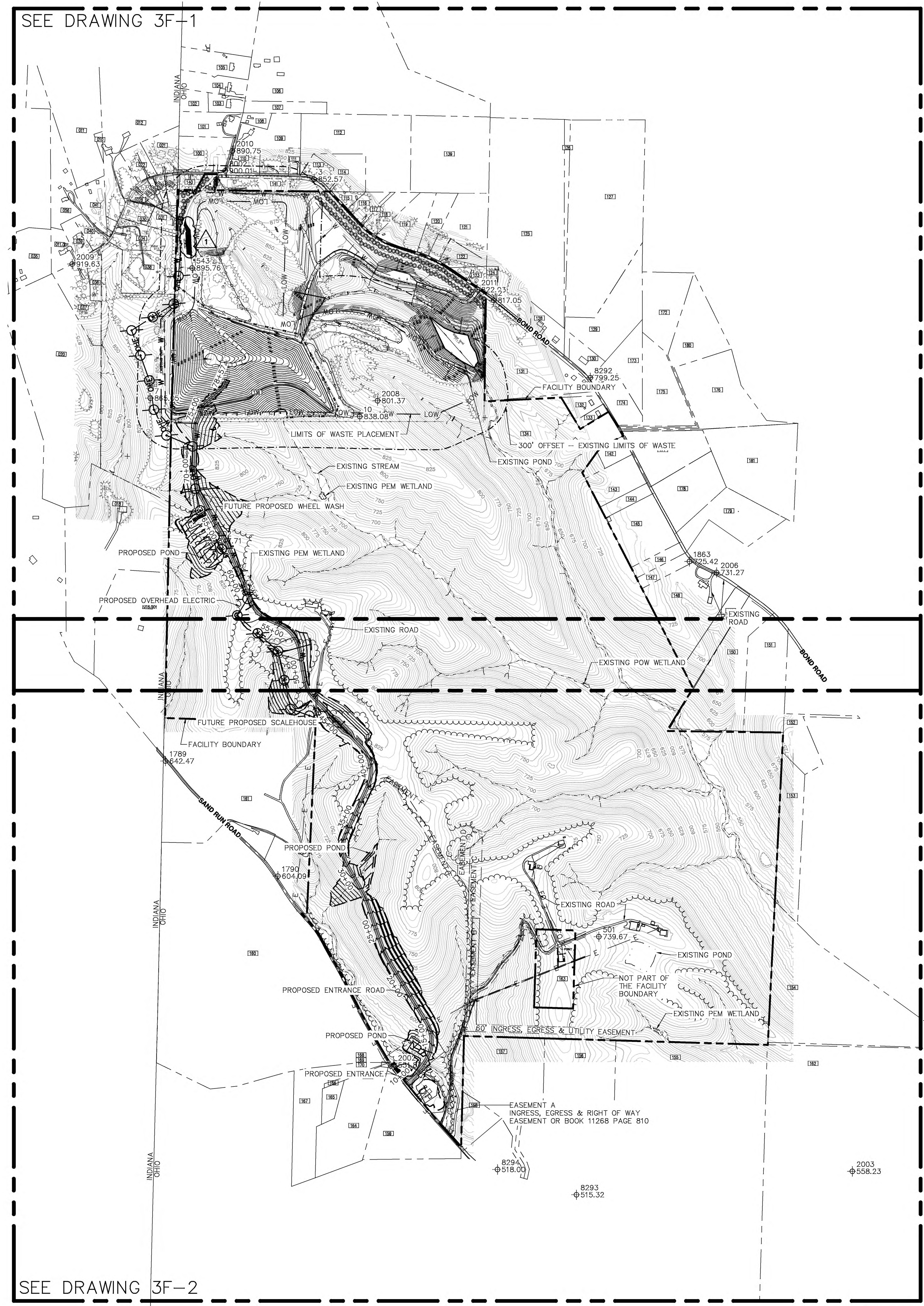
BOND ROAD SITE, INC.
 11425 BOND ROAD
 HARRISON, OHIO 45030

COVER SHEET

CONTRACT NO. 22-063
 DATE 2/6/23
 DRAWING NO. 1

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SEE DRAWING 3F-1



SEE DRAWING 3F-2

SEQUENCE OF CONSTRUCTION THIS SHEET

- ⇒ CONTINUE PHASE ONE FILL OPERATIONS
 - EXTEND ACCESS ROAD AS FILL REACHES GRADE
 - PLACE INTERIM AND INTERMEDIATE COVERS
 - BUILD DRAINAGE CHANNELS AND INSTALL CULVERT
 - PLACE STRAW BALES IN CHANNELS AND SILT FENCES ON SLOPES
- ⇒ PLACE STRAW BALES IN EXISTING DRAINAGE CHANNELS
- ⇒ PLACE SOUND BARRIERS
- ⇒ CONSTRUCT NEW ACCESS ROAD
- ⇒ BUILD SCALE AND SCALE HOUSE
- ⇒ CONSTRUCT CHANNEL #1
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPES
- ⇒ CONSTRUCT SILT POND
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - INSTALL GROUND WATER CONTROL SYSTEMS
 - BUILD OUTLET STRUCTURES
 - PLACE CLAY LINERS AND CHANNEL ROCK PROTECTION
- ⇒ CONSTRUCT CHANNEL #2
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPE
- ⇒ CONSTRUCT CHANNEL #3
 - EXCAVATE AND STOCKPILE MATERIAL
 - LINE CHANNEL WITH RIP RAP

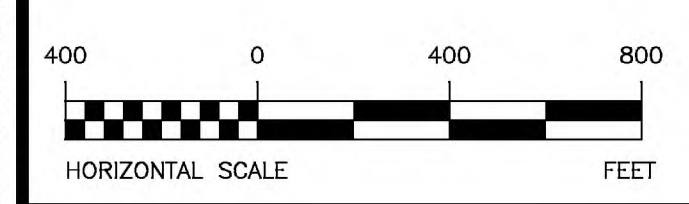
LEGEND

- 710 PROPOSED ELEVATION CONTOURS
- PROPOSED SURFACE WATERS
- LIMIT OF CONSTRUCTION/TOE OF SLOPE
- BENCH/ACCESS ROAD
- PROPOSED GROUND WATER CONTROL SYSTEM
- PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE
- PROPOSED UNDERGROUND ELECTRIC
- LEACHATE FLOW DIRECTION
- PROPOSED LEACHATE COLLECTOR/CLEAN-OUT PIPE
- PROPOSED FORCE MAIN
- BOUNDARY BETWEEN LANDFILL COVER TYPES
- TRAFFIC ARROW
- SILT FENCE
- ROCK SILT-CHECK
- STRAW BALE SILT-CHECK
- FACILITY BOUNDARY
- MATCHLINE
- PROPOSED INCREMENT WEATHER AREA
- PROPOSED STOCKPILE/BORROW AREA
- EXISTING ELEVATION CONTOURS
- EXISTING VEGETATION/TREE LINE
- EXISTING ROAD
- FENCE
- BENCHMARK
- UTILITY POLE
- LOW LIMITS OF WASTE PLACEMENT
- STREAM
- LIMITS OF PEM WETLAND
- LIMITS OF POW WETLAND
- RIGHT OF WAY / EASEMENT
- BUILDING
- POND
- ELECTRIC LINE
- EXISTING WATER LINE
- TELEPHONE LINE
- 300' OFFSET - EXISTING LIMITS OF WASTE
- ADJACENT PROPERTY LINES
- PROPERTY OWNER (SEE DRAWING 2B-0 FOR PROPERTY OWNERS TABLE)
- EXISTING FIBER OPTIC CABLE
- EXISTING ROCK SILT CHECK
- EXISTING FORCE MAIN
- OVERHEAD ELECTRIC
- BENCH MARK (CONCRETE MONUMENT WITH PLATE)
- LIMITS OF CLEARING AND GRUBBING
- SPECIAL PURPOSE WELL
- WELL OR PIEZOMETER SCHEDULED FOR ABANDONMENT
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- PROPOSED GAS EXTRACTION WELL
- PROPOSED WELL NUMBER
- PROPOSED DEPTH OF WELL/LENGTH OF EXTRACTION PIPE
- PROPOSED RADIUS OF INFLUENCE
- PROPOSED CONDENSATE WELL
- GAS PIPE
- PROPOSED GAS MONITORING PROBE
- PROPOSED GAS PUNCH BAR
- GAS PUNCH BAR
- REMNANTS OF SHALLOW WEATHERED BEDROCK
- PROPOSED FORCE MAIN
- PROPOSED SPRING DRAIN
- WATER LEVEL ELEVATION ON 3/22/94
- EQUIPOTENTIAL LINE
- GROUND-WATER DIVIDE
- GROUND-WATER FLOW DIRECTION
- EXISTING LEACHATE COLLECTOR/CLEAN-OUT PIPE
- EXISTING MANHOLE/CATCH BASIN
- EXISTING PILE
- EXISTING WATER PIPE
- EXISTING SIGN
- EXISTING POLE POST
- EXISTING GUY WIRE
- EXISTING MAILBOX
- EXISTING LIGHT POLE
- PROPOSED ROAD
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED POND
- PROPOSED POWER POLE
- PROPOSED OVERHEAD POWER

- NOTE:
1. TOPOGRAPHY CONDUCTED BY M.A.N. MAPPING SERVICES, DATED 02/05/2021.
 2. "SELECT FILL" IS TO BE USED FOR THE CONSTRUCTION OF CLAY LINERS AND CLAY CAPS INCLUDES SOILS CLASSIFIED AS "CL" AND "CH" AND FURTHER DESCRIBED IN THE HYDROGEOLOGIC REPORT
 3. "NON-SELECT FILL" IS TO BE USED FOR THE CONSTRUCTION OF DIKES, BERMS, DAILY AND PROTECTIVE COVER LAYERS INCLUDES SOILS OTHER THAN THOSE CLASSIFIED AS "CL" AND "CH" AND FURTHER DESCRIBED IN THE HYDROGEOLOGIC REPORT

1 - REVISED FOR ALTERATION 8 DATED 02/06/2023

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NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. 8.

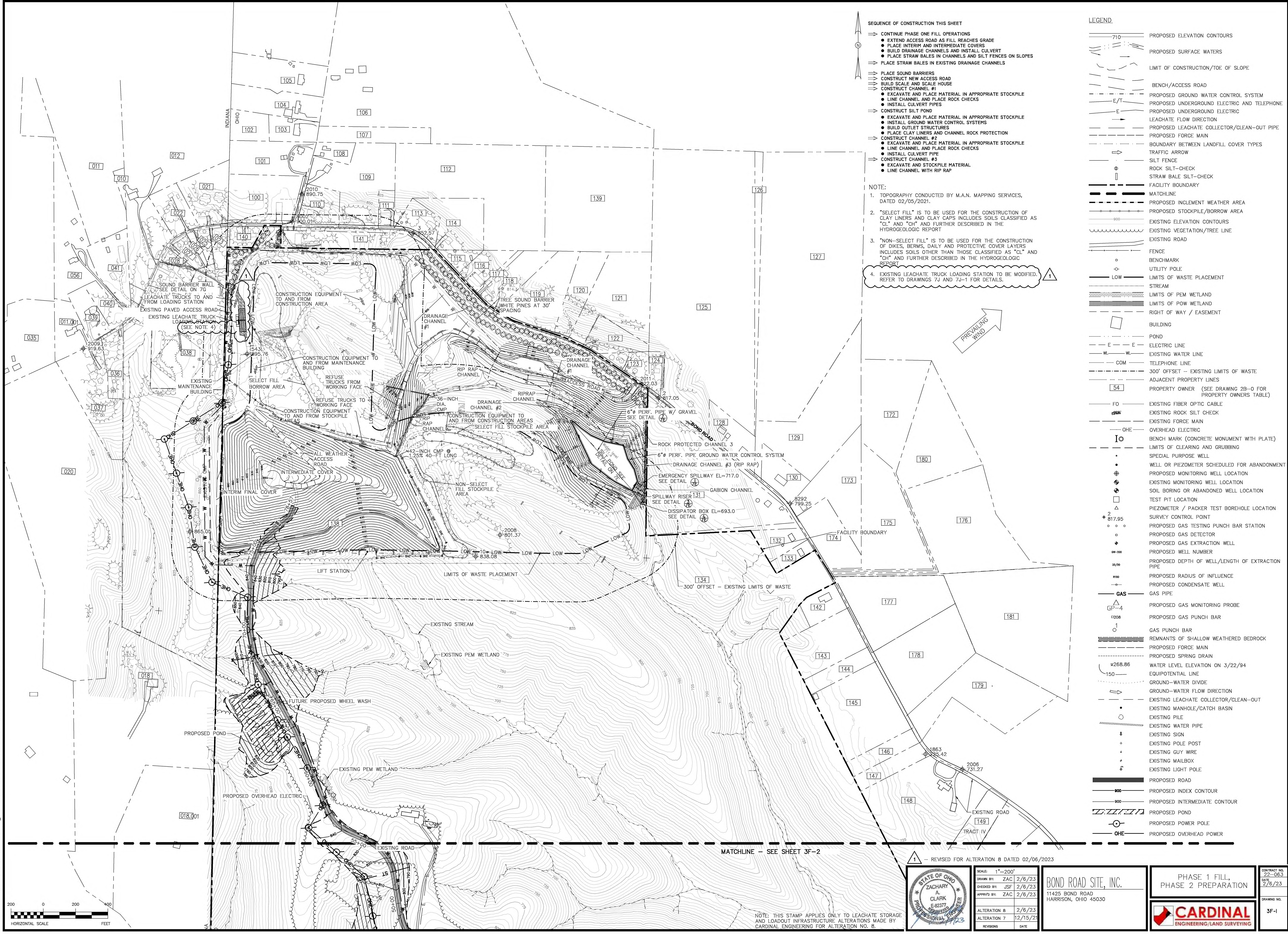


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DRAWN BY:	ZAC 2/6/23
CHECKED BY:	JSF 2/6/23
APPROVED BY:	ZAC 2/6/23
ALTERATION 8:	2/6/23
ALTERATION 7:	12/15/22
REVISIONS:	DATE

BOND ROAD SITE, INC.
 11425 BOND ROAD
 HARRISON, OHIO 45030

PHASE 1 FILL, PHASE 2 PREPARATION		CONTRACT NO. 22-063
		DATE 2/6/23
		DRAWING NO. 3F-0

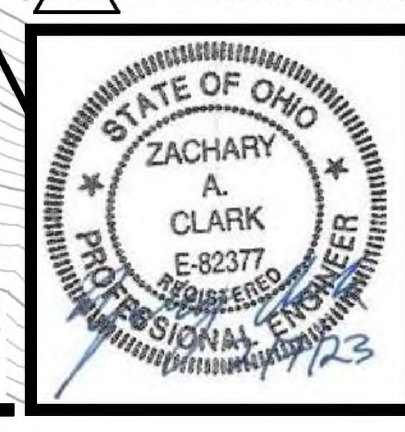
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- SEQUENCE OF CONSTRUCTION THIS SHEET**
- CONTINUE PHASE ONE FILL OPERATIONS
 - EXTEND ACCESS ROAD AS FILL REACHES GRADE
 - PLACE INTERIM AND INTERMEDIATE COVERS
 - BUILD DRAINAGE CHANNELS AND INSTALL CULVERT
 - PLACE STRAW BALES IN CHANNELS AND SILT FENCES ON SLOPES
 - PLACE STRAW BALES IN EXISTING DRAINAGE CHANNELS
 - PLACE SOUND BARRIERS
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 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPES
 - CONSTRUCT SILT POND
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - INSTALL GROUND WATER CONTROL SYSTEMS
 - BUILD OUTLET STRUCTURES
 - PLACE CLAY LINERS AND CHANNEL ROCK PROTECTION
 - CONSTRUCT CHANNEL #2
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPE
 - CONSTRUCT CHANNEL #3
 - EXCAVATE AND STOCKPILE MATERIAL
 - LINE CHANNEL WITH RIP RAP

- NOTE:**
1. TOPOGRAPHY CONDUCTED BY M.A.N. MAPPING SERVICES, DATED 02/05/2021.
 2. "SELECT FILL" IS TO BE USED FOR THE CONSTRUCTION OF CLAY LINERS AND CLAY CAPS INCLUDES SOILS CLASSIFIED AS "CL" AND "CH" AND FURTHER DESCRIBED IN THE HYDROGEOLOGIC REPORT
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 4. EXISTING LEACHATE TRUCK LOADING STATION TO BE MODIFIED. REFER TO DRAWINGS 7J AND 7J-1 FOR DETAILS.

- LEGEND**
- 710 PROPOSED ELEVATION CONTOURS
 - PROPOSED SURFACE WATERS
 - LIMIT OF CONSTRUCTION/TOE OF SLOPE
 - BENCH/ACCESS ROAD
 - PROPOSED GROUND WATER CONTROL SYSTEM
 - PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE
 - PROPOSED UNDERGROUND ELECTRIC
 - LEACHATE FLOW DIRECTION
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 - FO EXISTING FIBER OPTIC CABLE
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 - EXISTING FORCE MAIN
 - OVERHEAD ELECTRIC
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 - EXISTING PILE
 - EXISTING WATER PIPE
 - EXISTING SIGN
 - EXISTING POLE POST
 - EXISTING GUY WIRE
 - EXISTING MAILBOX
 - EXISTING LIGHT POLE
 - PROPOSED ROAD
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED POND
 - PROPOSED POWER POLE
 - PROPOSED OVERHEAD POWER



SCALE	1"=200'
DRAWN BY	ZAC
CHECKED BY	JSF
APPROVED BY	ZAC
ALTERATION 8	2/6/23
ALTERATION 7	12/15/21
REVISIONS	DATE

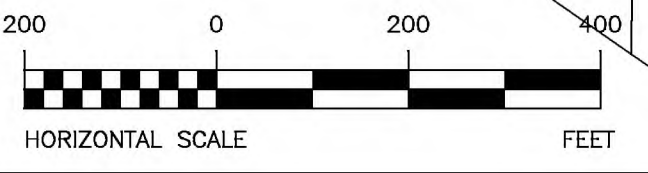
BOND ROAD SITE, INC.
 11425 BOND ROAD
 HARRISON, OHIO 45030

PHASE 1 FILL,
 PHASE 2 PREPARATION

CARDINAL
 ENGINEERING/LAND SURVEYING

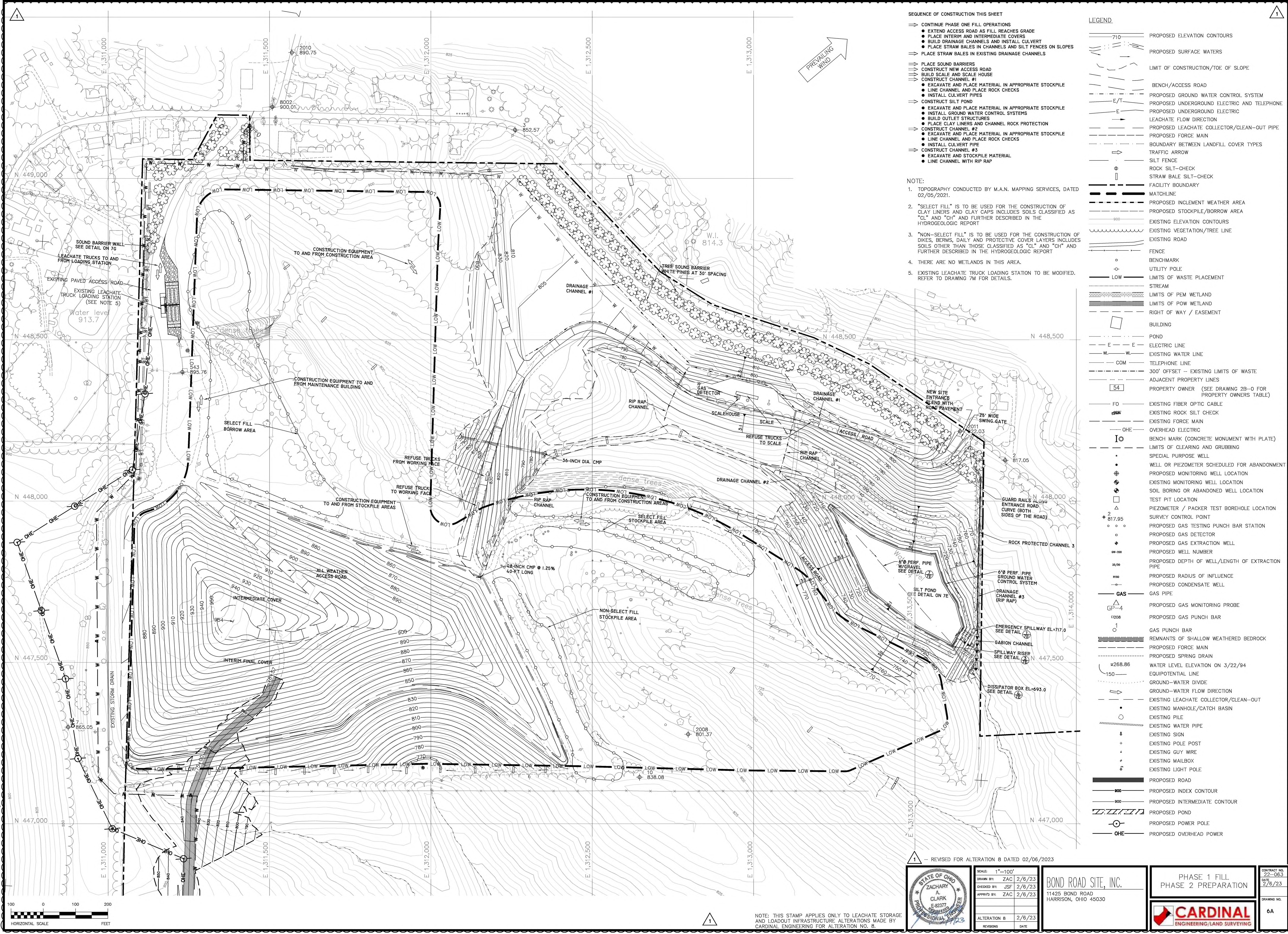
CONTRACT NO. 22-063
 DATE 2/6/23
 DRAWING NO. 3F-1

NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. 8.



MATCHLINE - SEE SHEET 3F-2

1 - REVISED FOR ALTERATION 8 DATED 02/06/2023

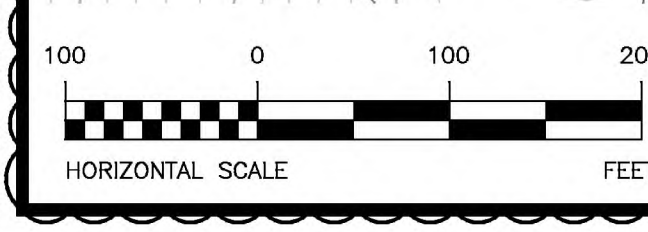


- SEQUENCE OF CONSTRUCTION THIS SHEET**
- CONTINUE PHASE ONE FILL OPERATIONS
 - EXTEND ACCESS ROAD AS FILL REACHES GRADE
 - PLACE INTERIM AND INTERMEDIATE COVERS
 - BUILD DRAINAGE CHANNELS AND INSTALL CULVERT
 - PLACE STRAW BALES IN CHANNELS AND SILT FENCES ON SLOPES
 - PLACE STRAW BALES IN EXISTING DRAINAGE CHANNELS
 - PLACE SOUND BARRIERS
 - CONSTRUCT NEW ACCESS ROAD
 - BUILD SCALE AND SCALE HOUSE
 - CONSTRUCT CHANNEL #1
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPES
 - CONSTRUCT SILT POND
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - INSTALL GROUND WATER CONTROL SYSTEMS
 - BUILD OUTLET STRUCTURES
 - PLACE CLAY LINERS AND CHANNEL ROCK PROTECTION
 - CONSTRUCT CHANNEL #2
 - EXCAVATE AND PLACE MATERIAL IN APPROPRIATE STOCKPILE
 - LINE CHANNEL AND PLACE ROCK CHECKS
 - INSTALL CULVERT PIPE
 - CONSTRUCT CHANNEL #3
 - EXCAVATE AND STOCKPILE MATERIAL
 - LINE CHANNEL WITH RIP RAP

- NOTE:**
1. TOPOGRAPHY CONDUCTED BY M.A.N. MAPPING SERVICES, DATED 02/05/2021.
 2. "SELECT FILL" IS TO BE USED FOR THE CONSTRUCTION OF CLAY LINERS AND CLAY CAPS INCLUDES SOILS CLASSIFIED AS "CL" AND "CH" AND FURTHER DESCRIBED IN THE HYDROGEOLOGIC REPORT
 3. "NON-SELECT FILL" IS TO BE USED FOR THE CONSTRUCTION OF DIKES, BERMS, DAILY AND PROTECTIVE COVER LAYERS INCLUDES SOILS OTHER THAN THOSE CLASSIFIED AS "CL" AND "CH" AND FURTHER DESCRIBED IN THE HYDROGEOLOGIC REPORT
 4. THERE ARE NO WETLANDS IN THIS AREA.
 5. EXISTING LEACHATE TRUCK LOADING STATION TO BE MODIFIED. REFER TO DRAWING 7M FOR DETAILS.

- LEGEND**
- 710 PROPOSED ELEVATION CONTOURS
 - PROPOSED SURFACE WATERS
 - LIMIT OF CONSTRUCTION/TOE OF SLOPE
 - BENCH/ACCESS ROAD
 - PROPOSED GROUND WATER CONTROL SYSTEM
 - PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE
 - PROPOSED UNDERGROUND ELECTRIC
 - LEACHATE FLOW DIRECTION
 - PROPOSED LEACHATE COLLECTOR/CLEAN-OUT PIPE
 - PROPOSED FORCE MAIN
 - BOUNDARY BETWEEN LANDFILL COVER TYPES
 - TRAFFIC ARROW
 - SILT FENCE
 - ROCK SILT-CHECK
 - STRAW BALE SILT-CHECK
 - FACILITY BOUNDARY
 - MATCHLINE
 - PROPOSED INCREMENT WEATHER AREA
 - PROPOSED STOCKPILE/BORROW AREA
 - 900 EXISTING ELEVATION CONTOURS
 - EXISTING VEGETATION/TREE LINE
 - EXISTING ROAD
 - FENCE
 - BENCHMARK
 - UTILITY POLE
 - LOW LIMITS OF WASTE PLACEMENT
 - STREAM
 - LIMITS OF PEM WETLAND
 - LIMITS OF POW WETLAND
 - RIGHT OF WAY / EASEMENT
 - BUILDING
 - POND
 - E-E ELECTRIC LINE
 - WL-WL EXISTING WATER LINE
 - COM TELEPHONE LINE
 - 300' OFFSET - EXISTING LIMITS OF WASTE
 - ADJACENT PROPERTY LINES
 - PROPERTY OWNER (SEE DRAWING 2B-0 FOR PROPERTY OWNERS TABLE)
 - FO EXISTING FIBER OPTIC CABLE
 - EXISTING ROCK SILT CHECK
 - EXISTING FORCE MAIN
 - OHE OVERHEAD ELECTRIC
 - BENCH MARK (CONCRETE MONUMENT WITH PLATE)
 - LIMITS OF CLEARING AND GRUBBING
 - SPECIAL PURPOSE WELL
 - WELL OR PIEZOMETER SCHEDULED FOR ABANDONMENT
 - PROPOSED MONITORING WELL LOCATION
 - EXISTING MONITORING WELL LOCATION
 - SOIL BORING OR ABANDONED WELL LOCATION
 - TEST PIT LOCATION
 - PIEZOMETER / PACKER TEST BOREHOLE LOCATION
 - SURVEY CONTROL POINT
 - PROPOSED GAS TESTING PUNCH BAR STATION
 - PROPOSED GAS DETECTOR
 - PROPOSED GAS EXTRACTION WELL
 - PROPOSED WELL NUMBER
 - PROPOSED DEPTH OF WELL/LENGTH OF EXTRACTION PIPE
 - PROPOSED RADIUS OF INFLUENCE
 - PROPOSED CONDENSATE WELL
 - GAS GAS PIPE
 - PROPOSED GAS MONITORING PROBE
 - PROPOSED GAS PUNCH BAR
 - GAS PUNCH BAR
 - REMNANTS OF SHALLOW WEATHERED BEDROCK
 - PROPOSED FORCE MAIN
 - PROPOSED SPRING DRAIN
 - WATER LEVEL ELEVATION ON 3/22/94
 - EQUIPOTENTIAL LINE
 - GROUND-WATER DIVIDE
 - GROUND-WATER FLOW DIRECTION
 - EXISTING LEACHATE COLLECTOR/CLEAN-OUT
 - EXISTING MANHOLE/CATCH BASIN
 - EXISTING PILE
 - EXISTING WATER PIPE
 - EXISTING SIGN
 - EXISTING POLE POST
 - EXISTING GUY WIRE
 - EXISTING MAILBOX
 - EXISTING LIGHT POLE
 - PROPOSED ROAD
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED POND
 - PROPOSED POWER POLE
 - PROPOSED OVERHEAD POWER

H:\2022\22-063\PLANS\21P1.dwg LAYOUT 2A SAVED: 2/26/23 2:38 PM PLOTTED: 2/26/23 2:38 PM BY: ZACHARY A. CLARK



1

NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. 8

STATE OF OHIO
 ZACHARY A. CLARK
 E-2377
 PROFESSIONAL ENGINEER

SCALE: 1"=100'
 DRAWN BY: ZAC 2/6/23
 CHECKED BY: JSF 2/6/23
 APPROVED BY: ZAC 2/6/23

ALTERATION 8 2/6/23
 REVISIONS DATE

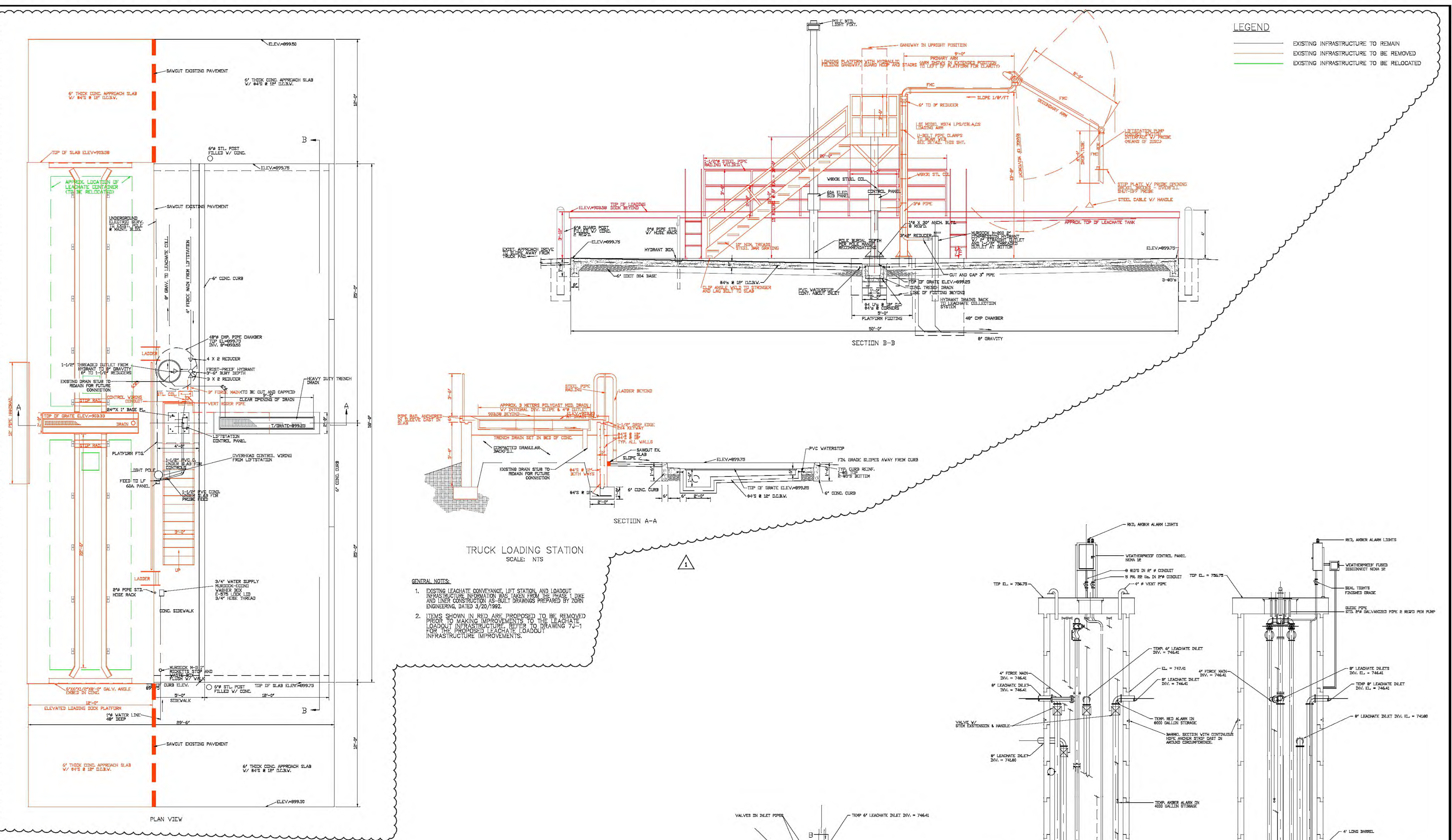
BOND ROAD SITE, INC.
 11425 BOND ROAD
 HARRISON, OHIO 45030

PHASE 1 FILL
 PHASE 2 PREPARATION

CONTRACT NO. 22-063
 DATE: 2/6/23
 DRAWING NO. 6A



1 - REVISED FOR ALTERATION 8 DATED 02/06/2023



LEGEND

- EXISTING INFRASTRUCTURE TO REMAIN
- EXISTING INFRASTRUCTURE TO BE REMOVED
- EXISTING INFRASTRUCTURE TO BE RELOCATED

- GENERAL NOTES:**
- EXISTING LEACHATE CONVEYANCE, LIFT STATION, AND LOADOUT INFRASTRUCTURE INFORMATION WAS TAKEN FROM THE PHASE I DIKE AND LINER CONSTRUCTION AS-BUILT DRAWINGS PREPARED BY ZORN ENGINEERING, DATED 3/20/1992.
 - ITEMS SHOWN IN RED ARE PROPOSED TO BE REMOVED PRIOR TO MAKING IMPROVEMENTS TO THE LEACHATE LOADOUT INFRASTRUCTURE. REFER TO DRAWING 7J-1 FOR THE PROPOSED LEACHATE LOADOUT INFRASTRUCTURE IMPROVEMENTS.

1 - REVISED FOR ALTERATION B DATED 02/06/2023



SCALE	ZAC 2/6/23
DRAWN BY	ZAC 2/6/23
CHECKED BY	JSF 2/6/23
APPROVED BY	ZAC 2/6/23
ALTERATION B	2/6/23
ALTERATION 7	12/15/21
REVISIONS	DATE

BOND ROAD SITE, INC.
 11425 BOND ROAD
 HARRISON, OHIO 45030

EXISTING LIFTSTATION AND LOAD STATION



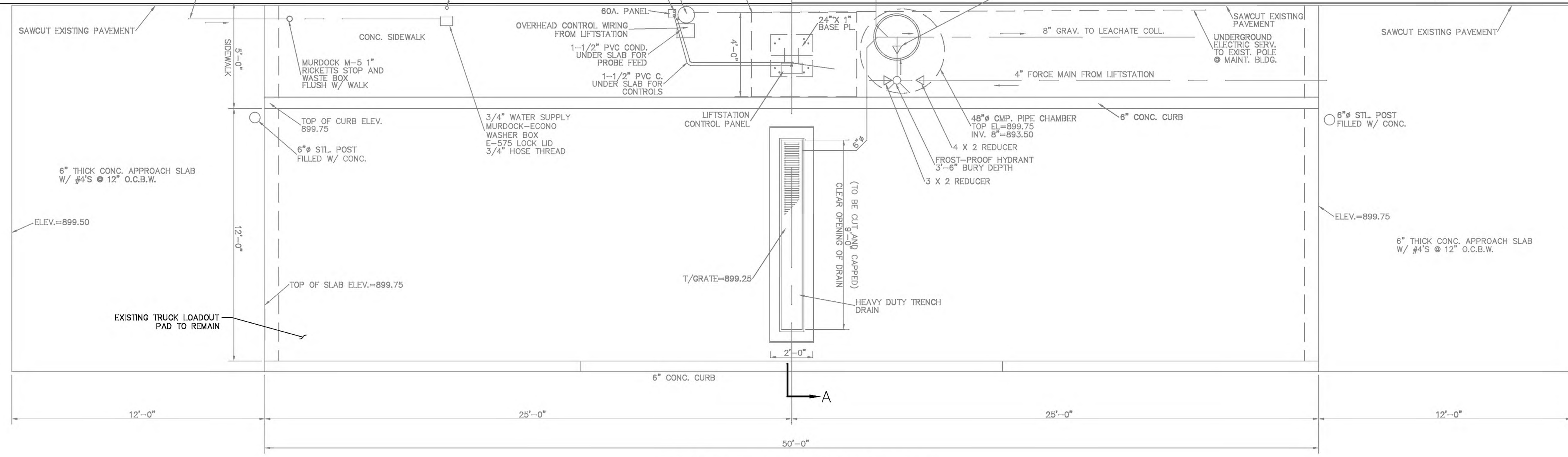
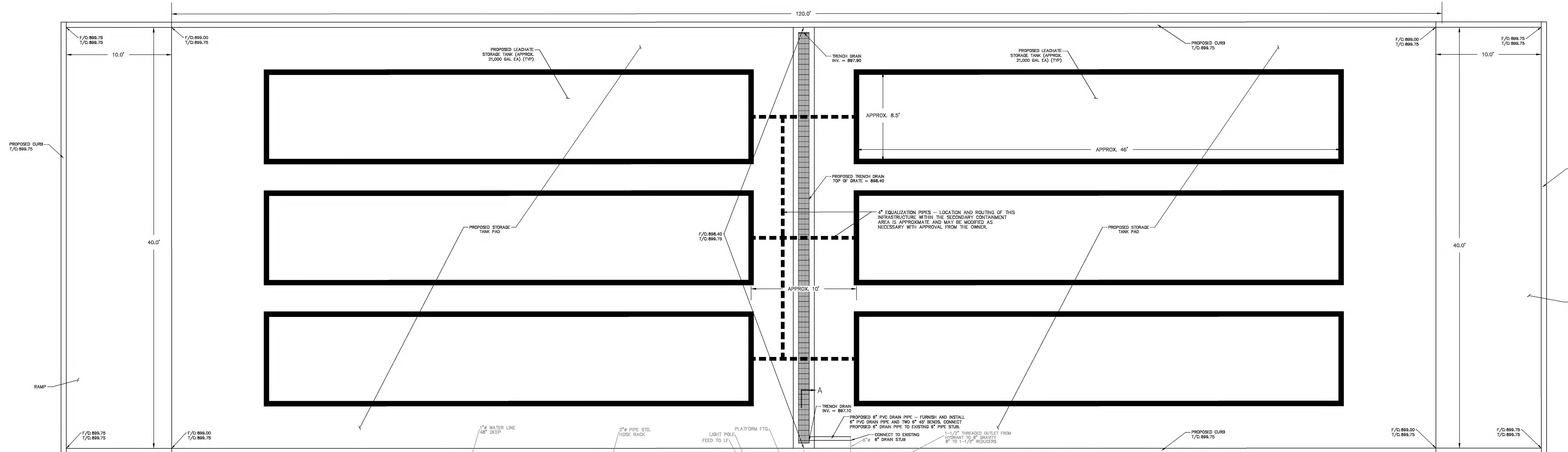
CONTRACT NO. 22-063
 DATE 2/6/23
 DRAWING NO. 7J

NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. B.

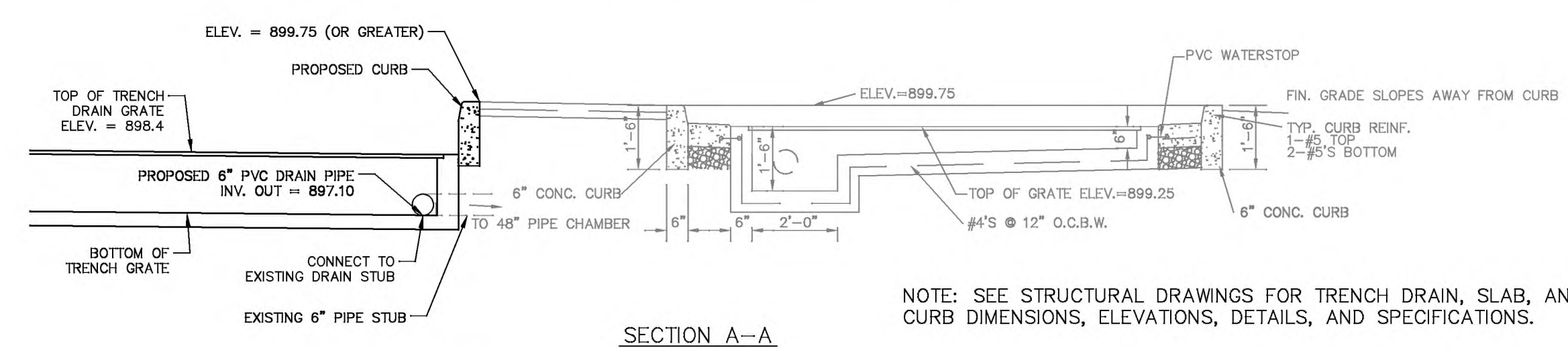
LEGEND

- EXISTING INFRASTRUCTURE TO REMAIN
- PROPOSED INFRASTRUCTURE

SPOT ELEVATION LEGEND	
T/C	= TOP OF CURB
F/C	= FACE OF CURB



PROPOSED LEACHATE LOADOUT PLAN VIEW



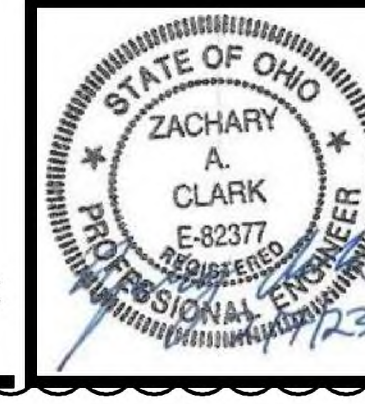
NOTE: SEE STRUCTURAL DRAWINGS FOR TRENCH DRAIN, SLAB, AND CURB DIMENSIONS, ELEVATIONS, DETAILS, AND SPECIFICATIONS.

GENERAL NOTES:

1. EXISTING LEACHATE CONVEYANCE, LIFT STATION, AND LOADOUT INFRASTRUCTURE INFORMATION WAS TAKEN FROM THE PHASE 1 DDC AND LINER CONSTRUCTION AS-BUILT DRAWINGS PREPARED BY ZORN ENGINEERING, DATED 3/20/1992.
2. REFER TO DRAWING 7J FOR MODIFICATIONS THAT SHALL OCCUR TO THE EXISTING LIFT STATION PRIOR TO THE IMPROVEMENTS SHOWN ON THIS DRAWING.
3. IN THE EVENT OF A TANK FAILURE, THE PROPOSED PAD AND CURB PROVIDES A SECONDARY CONTAINMENT VOLUME GREATER THAN 110% OF THE LARGEST TANK VOLUME AFTER SUBTRACTING VOLUMES OCCUPIED BY THE OTHER TANKS.

H:\SSR\PROJECTS\2022\22-06\PLANSET\ANSI\7J-1.dwg LAYOUT: 7J-1.dwg SAVED: 2/2/2023 1:45:41 PM PLOTTED: 2/2/2023 3:01 PM BY: ZACH CLARK

1 - REVISED FOR ALTERATION 8 DATED 02/06/2023



REVISION	DATE
ALTERATION 8	2/6/23
ALTERATION 7	12/15/21

BOND ROAD SITE, INC.
11425 BOND ROAD
HARRISON, OHIO 45030

IMPROVEMENTS TO EXISTING LOAD STATION



CONTRACT NO. 22-06.3
DATE 2/6/23
DRAWING NO. 7J-1

NOTE: THIS STAMP APPLIES ONLY TO LEACHATE STORAGE AND LOADOUT INFRASTRUCTURE ALTERATIONS MADE BY CARDINAL ENGINEERING FOR ALTERATION NO. 8.