

Appendix B

Supplemental Pre-Design Investigation Results

**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Work Plan**



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Subject Conrail Right-of-Way Investigation Plan

From Aimee Ruiter
John Angelone

Date May 12, 2022

This memorandum presents the proposed Scope of Work for investigative test pitting within the Conrail Right-of-Way (ROW) adjacent to 143 Chapel Avenue, Jersey City, Hudson County, New Jersey. AECOM is proposing investigative test pitting (i.e., pits excavated for subsurface exploration) along the Conrail ROW to delineate and/or remove chromate chemical production waste (CCPW)-related impacts. Test pits are being proposed to collect soil samples for analysis, make visual observations of the underlying soil, and evaluate whether CCPW material is present. Test pits are proposed at 10 locations along the Conrail ROW (see Figures 1 through 5). The locations are set five feet from either existing samples that showed exceedances of the New Jersey Department of Environmental Protection (NJDEP) Chromium Soil Cleanup Criteria (CrSCC) or locations where CCPW was observed during previous investigation/remediation activities. The results of this investigation will be used to determine the presence and extent of potential impacts and inform future remedial actions, if warranted.

AECOM will work under a supplement to the existing Temporary Right of Entry and/or Design permit from Conrail. AECOM field staff and subcontractors will complete the required Conrail Contractor Orientation Training and/or Conrail required safety training. AECOM and its subcontractors will coordinate access and track protection with Conrail Engineer David Reilly and will follow the direction of the Conrail representative in the field, to promote safety for participating personnel. PPG will facilitate and manage the disposal of impacted soils and investigation derived wastes (IDW), such as used personal protective equipment and water used during equipment decontamination. Waste will be temporarily staged in a roll-off within the Conrail ROW. Other materials are also proposed to be temporarily staged within the Conrail ROW (see Figure 1).

The proposed Scope of Work is as follows:

- A professionally-licensed surveyor will mark out the proposed test pit locations.
- Railway ballast will be removed and stockpiled prior to excavating test pits.
- An environmental remediation contractor will mobilize an excavator/mini excavator, as appropriate, to excavate soil to 5 feet below ground surface (bgs) at each test pit location.
- An AECOM representative will collect soil samples for analysis from the test pits and document visual observations of the subsurface materials.
- Should CCPW be visually observed, AECOM may pursue the removal of CCPW up to the ends of the railroad ties with coordination for excavation limits and depths with Conrail's Project Engineer. Excavation will be in short segments (width and depth as agreed upon with Conrail Engineer) with backfill and compaction prior to train movement coordinated with Conrail based on the work in close proximity to the rail.
- If CCPW is observed to be continuing under the railroad tracks, the locations will be documented and potential additional actions will be reviewed. Additional test pit(s) may be excavated on the northwestern side of the railroad tracks in a later mobilization, to seek a location visibly free of CCPW.
- Soil samples will be collected from material visibly free of CCPW and analyzed for hexavalent chromium. However, if material visibly free of CCPW is not encountered in the northwestern edge of the test pit (i.e., location closest to the railroad tracks) a soil sample may still be collected and analyzed for hexavalent chromium.
- Test pit backfill materials will include excavated soils (if confirmed clean through the screening process outlined in the Excavated Material Groundwater Management Plan) and/or imported clean fill soil.
- Backfill will not be amended with FerroBlack-H.
- Test pits will be compacted with a vibratory plate or jumping jack compactor in 6-inch lifts and regraded to existing conditions with the stockpiled railway ballast. If disturbed, the existing drainage swale will be restored.
- Generated waste will be securely temporarily staged within the Conrail ROW. Waste material will be stockpiled on minimum 6 mil plastic sheeting, and covered daily and at completion of test pit work with tarp or plastic sheeting and secured to prevent storm water infiltration/run off, with berming added as needed (plastic over straw tubes, bales, etc.) to deter storm water flow to and from the pile. The piles will be encircled with a plastic construction barrier fence and will not encroach within 15 feet of the track unless approved by Conrail Engineering representative.
- Generated waste will be characterized for waste disposal and transported off-site for disposal in a timely manner.
- Following completion of the investigation and removal of the waste from the Site, all materials will be demobilized from the Site. Excess crushed stone may be used in adjacent areas along the track, but it must not produce a tripping hazard.



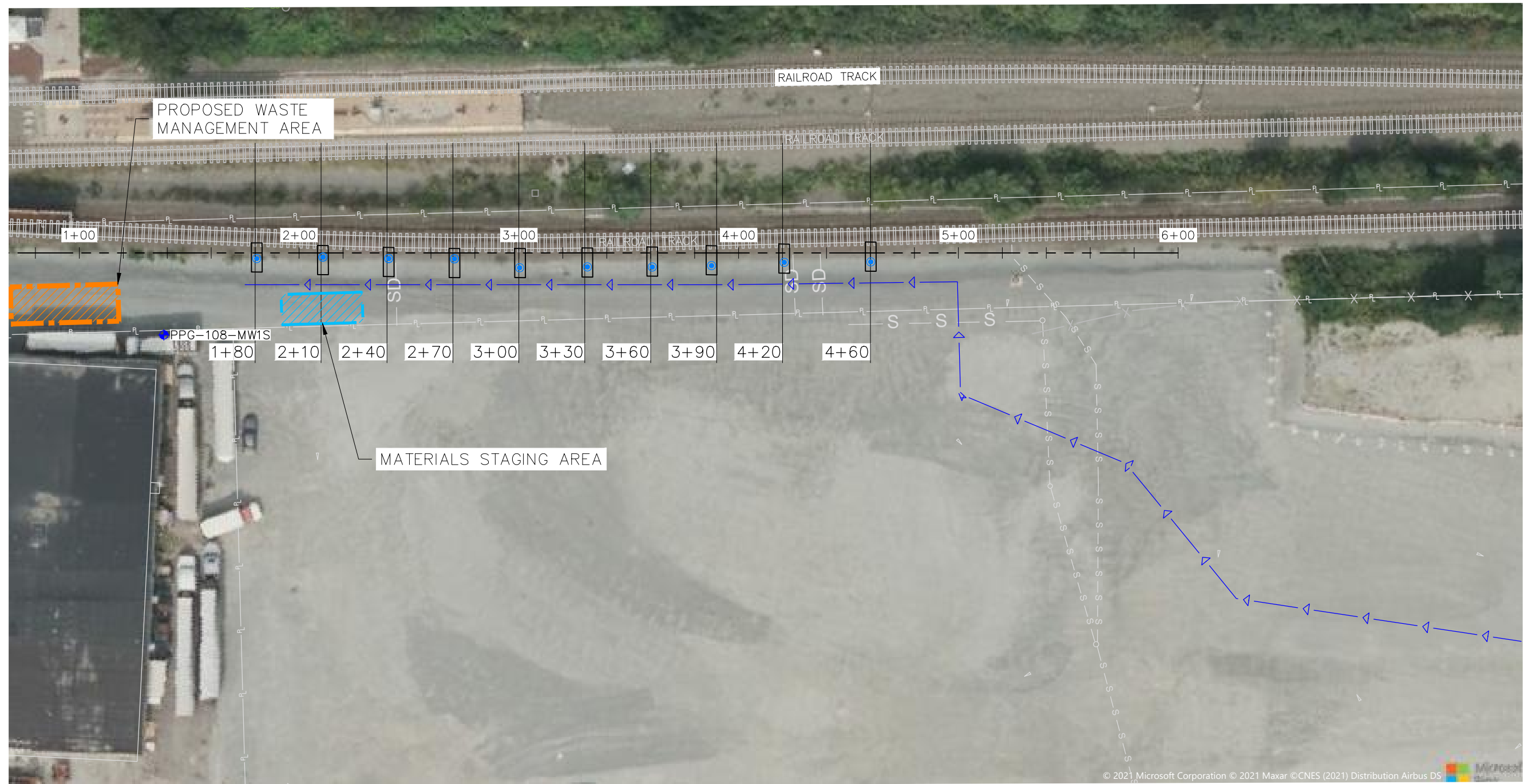
AECOM
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- AECOM estimates each test pit will take 4 hours to complete from removal of the first bucket to end of compaction. Assuming Conrail's schedule allows for two test pits per day, AECOM estimates the full SOW to take approximately 5 days.

Conrail will inform AECOM of any required permits or plans not addressed in this Scope of Work.

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LEGEND

- BUILDING
- FENCE
- PROPERTY LINE
- SEWER UTILITY
- UTILITY POLE
- PROPOSED SAMPLE LOCATION
- STICK-UP MONITORING WELL
- PROPOSED TEST PIT (NOT TO SCALE)
- SITE ACCESS
- RAIL LINE

AECOM

DRAFT

PPG
143 CHAPEL AVE., 20 EAST LINDEN AVE., & CONRAIL
JERSEY CITY, NEW JERSEY

**CONRAIL TESTPITTING INVESTIGATION
PLAN VIEW**

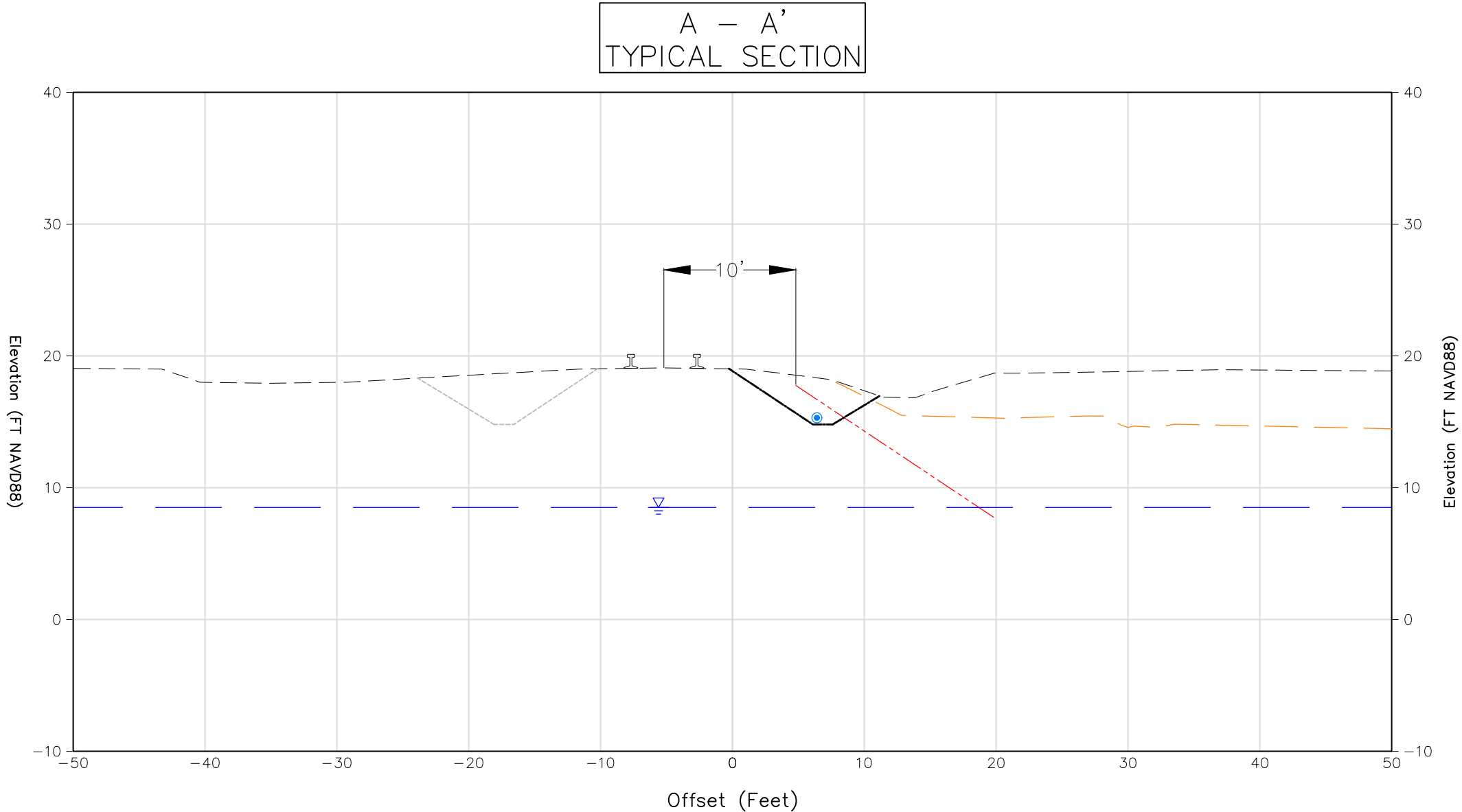
DATE: 05/09/2022

DRWN: JJA

FIGURE 1



File: C:\Users\john.angelone\AppData\Local\Temp\AcPublish_19704\Conrail SOW Figures.dwg Layout: Xsect 3 (2) User: John.Angelone Plotted: Jan 07, 2022 - 6:31am Xref's:



LEGEND

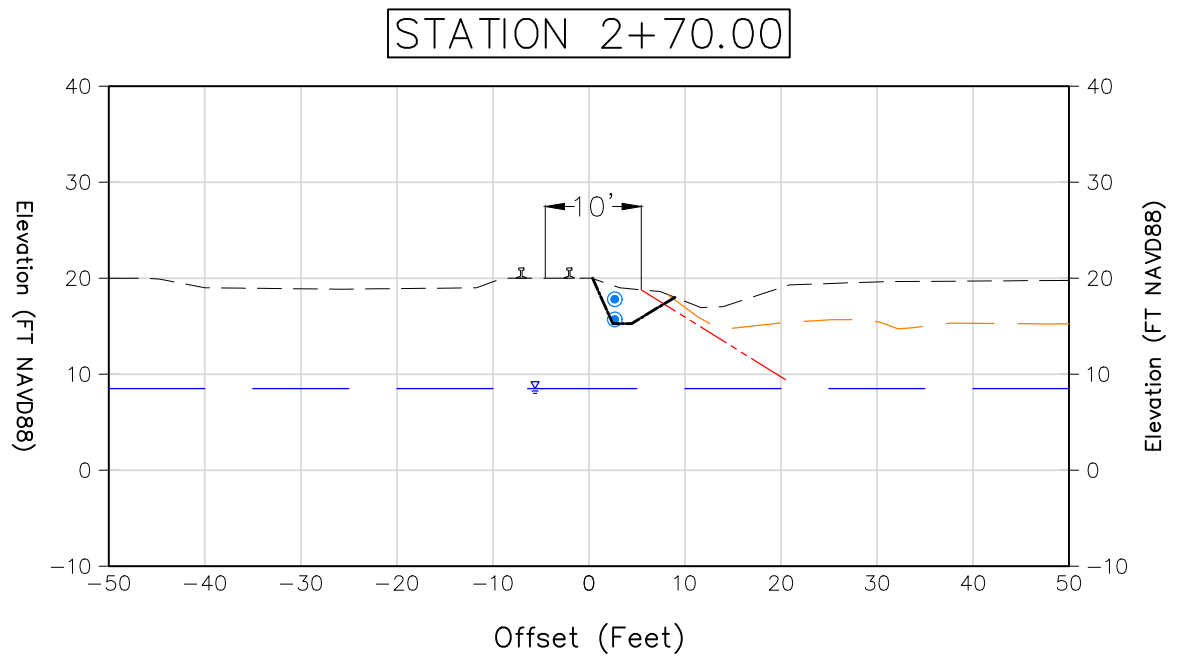
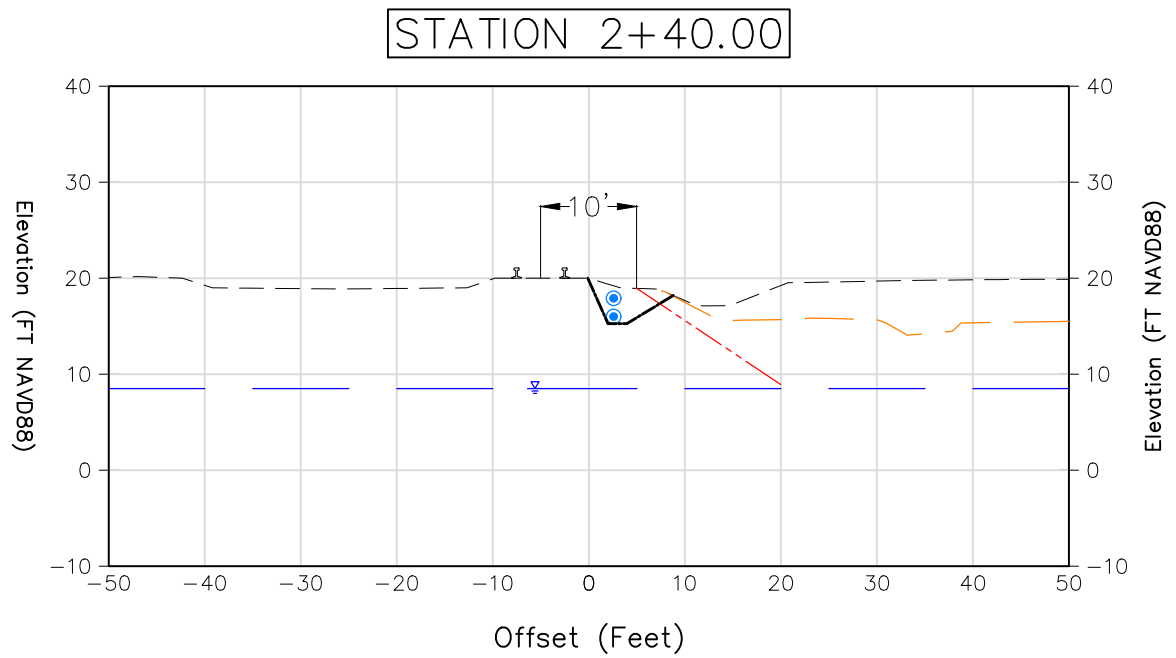
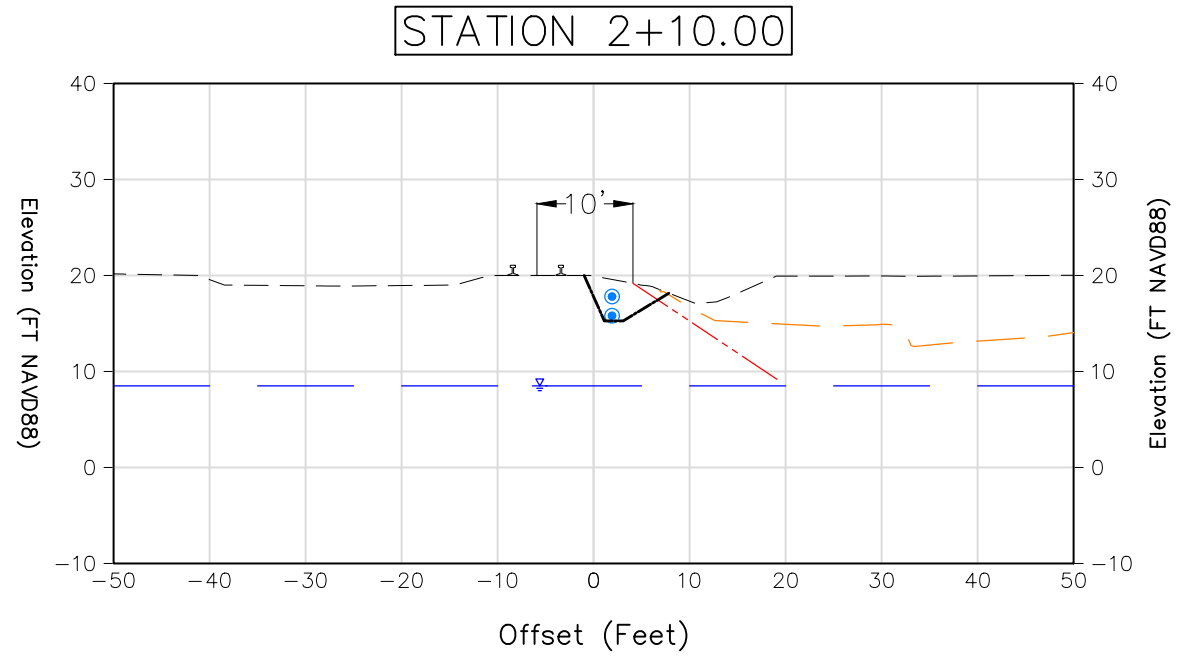
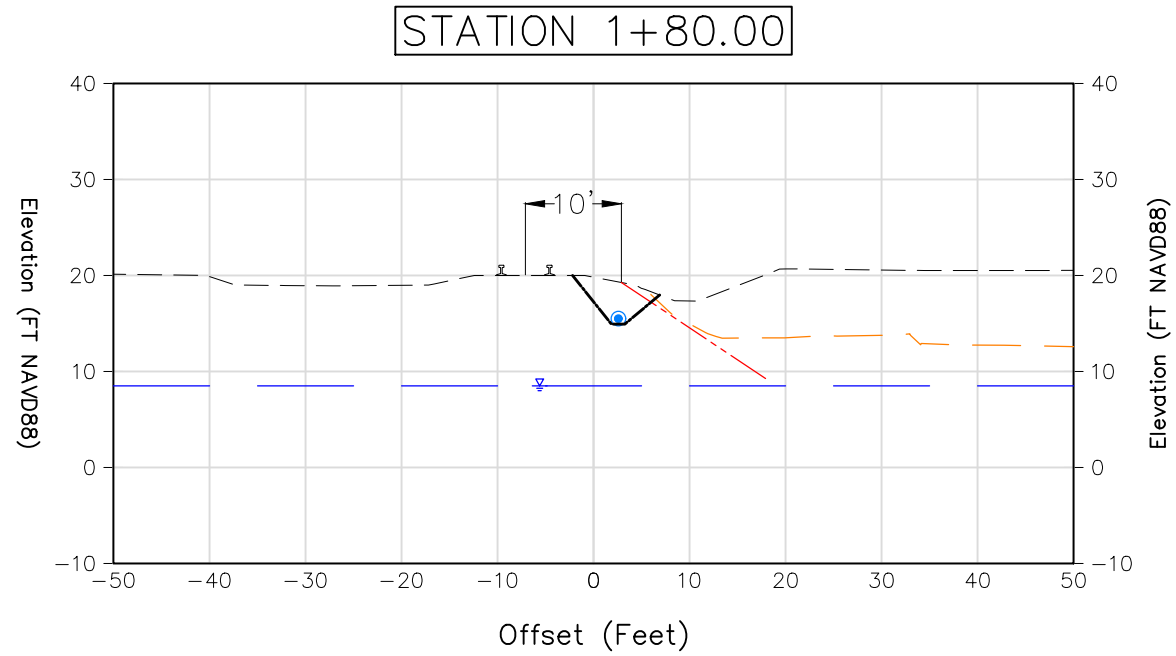
- RAILROAD TRACK LOCATION
- PROPOSED SAMPLE LOCATION
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- COMPLETED EXCAVATION SURFACE
- THEORETICAL RAILROAD EMBANKMENT LINE
- PROPOSED TEST PIT
- FOLLOW UP TEST PITS (AS REQUIRED)
- FT NAVD88
- FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



DRAFT

PPG 143 CHAPEL AVE., 20 EAST LINDEN AVE., & CONRAIL JERSEY CITY, NEW JERSEY			CONRAIL TESTPITTING INVESTIGATION TYPICAL CROSS SECTION	
DATE: 12/06/2021	DRWN: JJA			FIGURE 2

File: Q:\20 SHEETS\Site 108&Conrail\2022-03-18_Conrail SOW Figures.dwg Layout: X-01 User: John.Angelone Plotted: May 09, 2022 - 5:15pm Xref's:



LEGEND:

- RAILROAD TRACK LOCATION
- PROPOSED SAMPLE LOCATION
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- COMPLETED EXCAVATION SURFACE
- THEORETICAL RAILROAD EMBANKMENT LINE
- PROPOSED TEST PIT

ABBREVIATIONS:

FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988

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PPG
SITE 107, SITE 108, AND CONRAIL
JERSEY CITY, NEW JERSEY

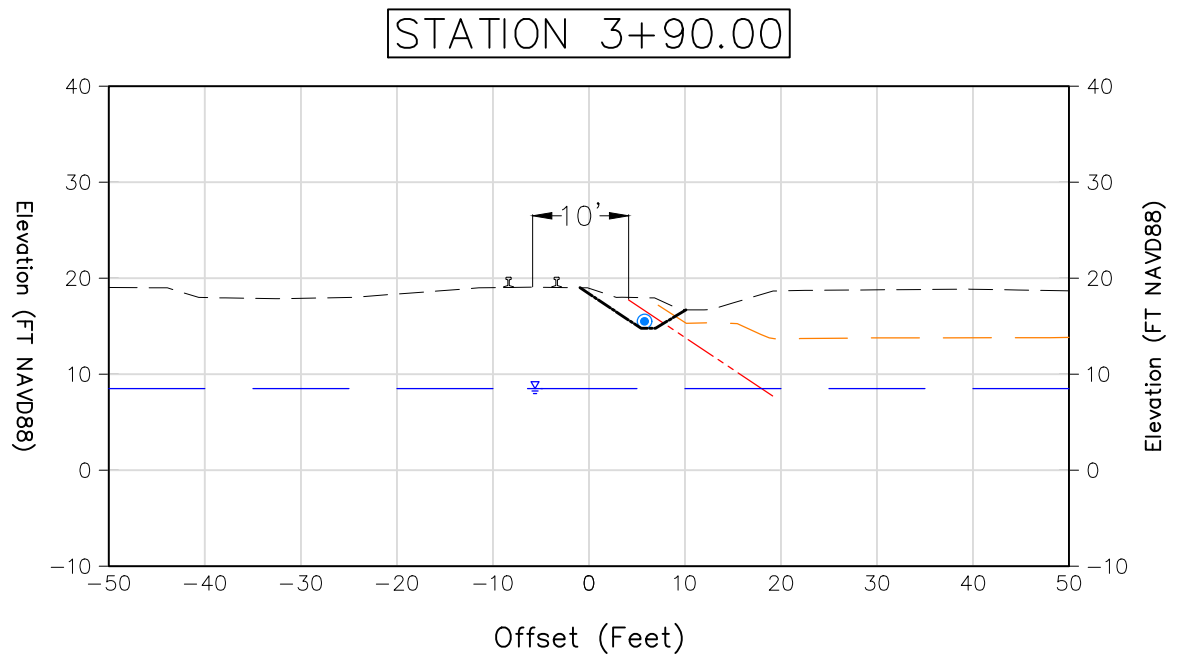
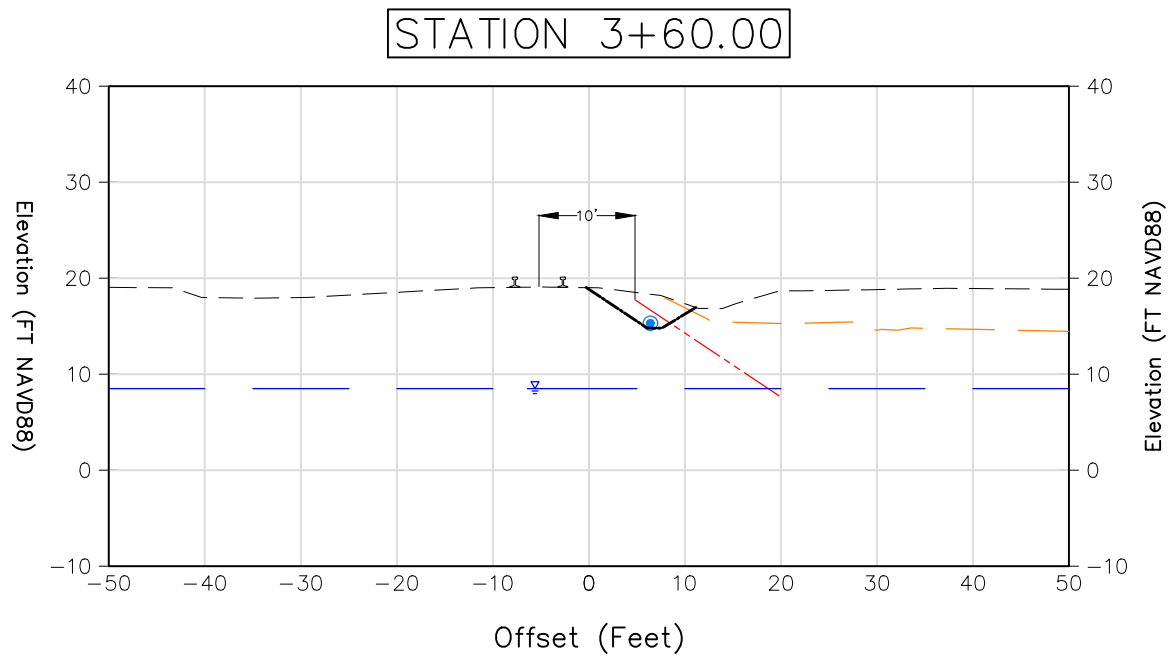
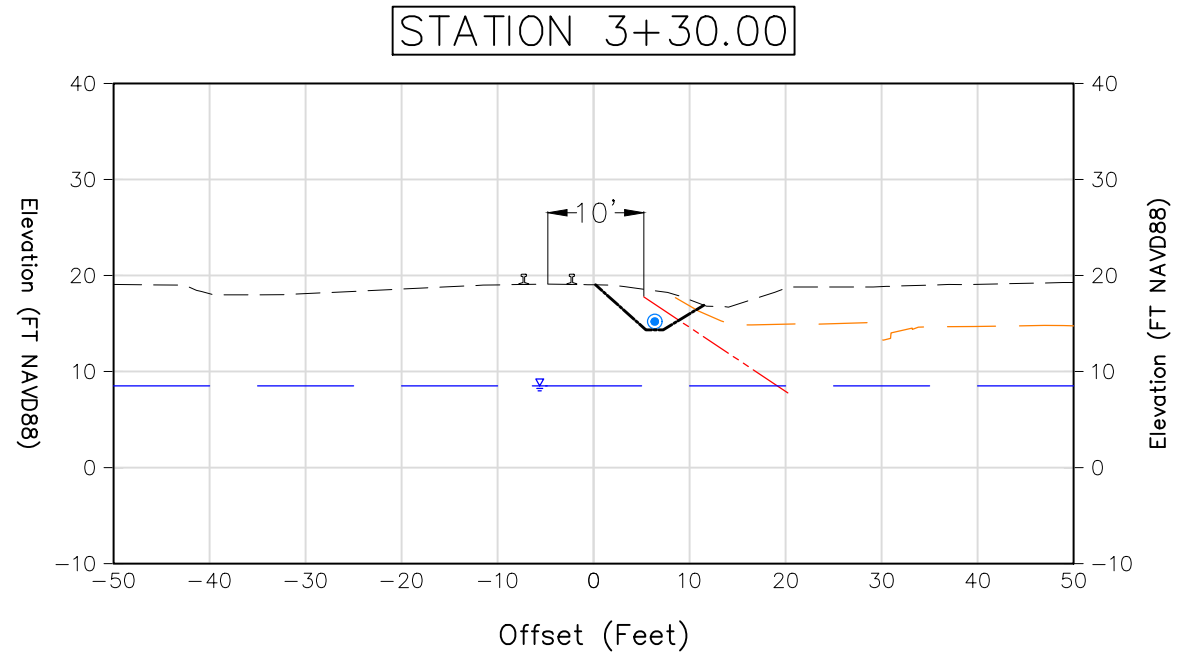
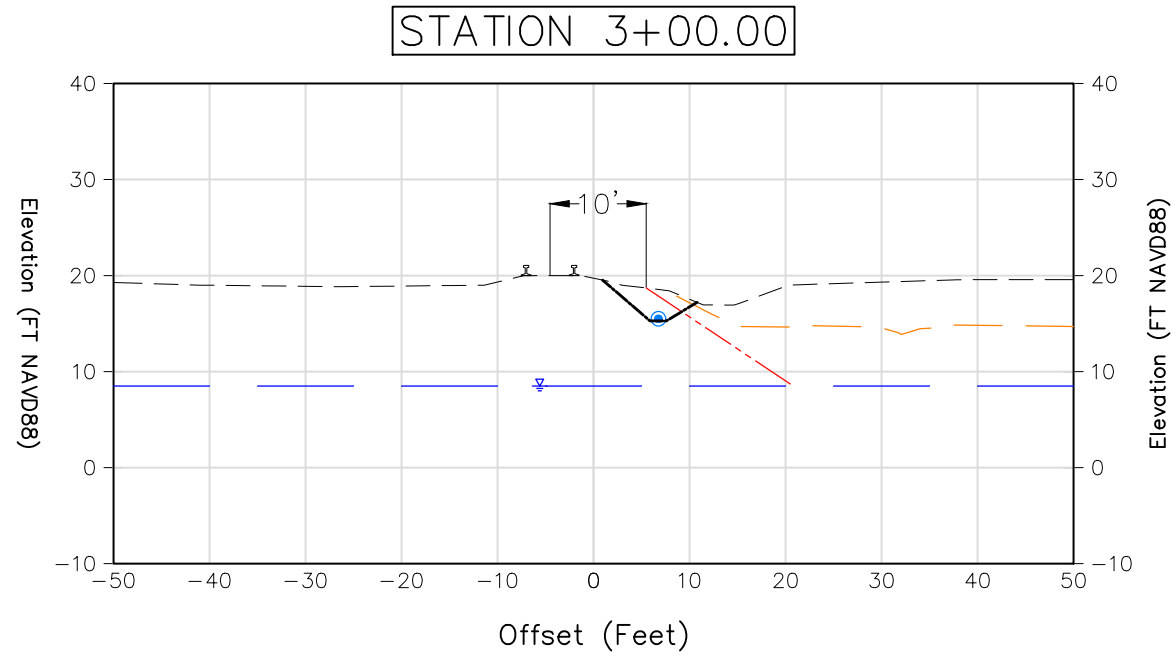
**CONRAIL SECTIONS
1+80 TO 2+70**

DATE: 05/09/2022

DRWN: JJA

FIGURE 3

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LEGEND:

- RAILROAD TRACK LOCATION
- PROPOSED SAMPLE LOCATION
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- COMPLETED EXCAVATION SURFACE
- THEORETICAL RAILROAD EMBANKMENT LINE
- PROPOSED TEST PIT

ABBREVIATIONS:

FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988

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PPG
SITE 107, SITE 108, AND CONRAIL
JERSEY CITY, NEW JERSEY

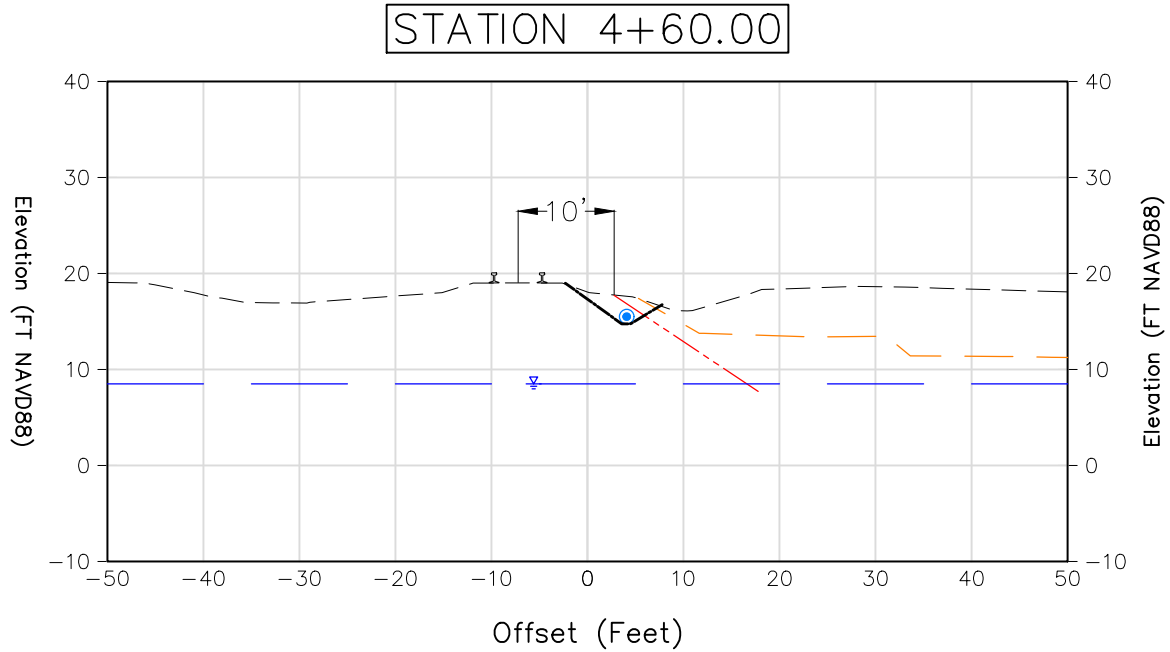
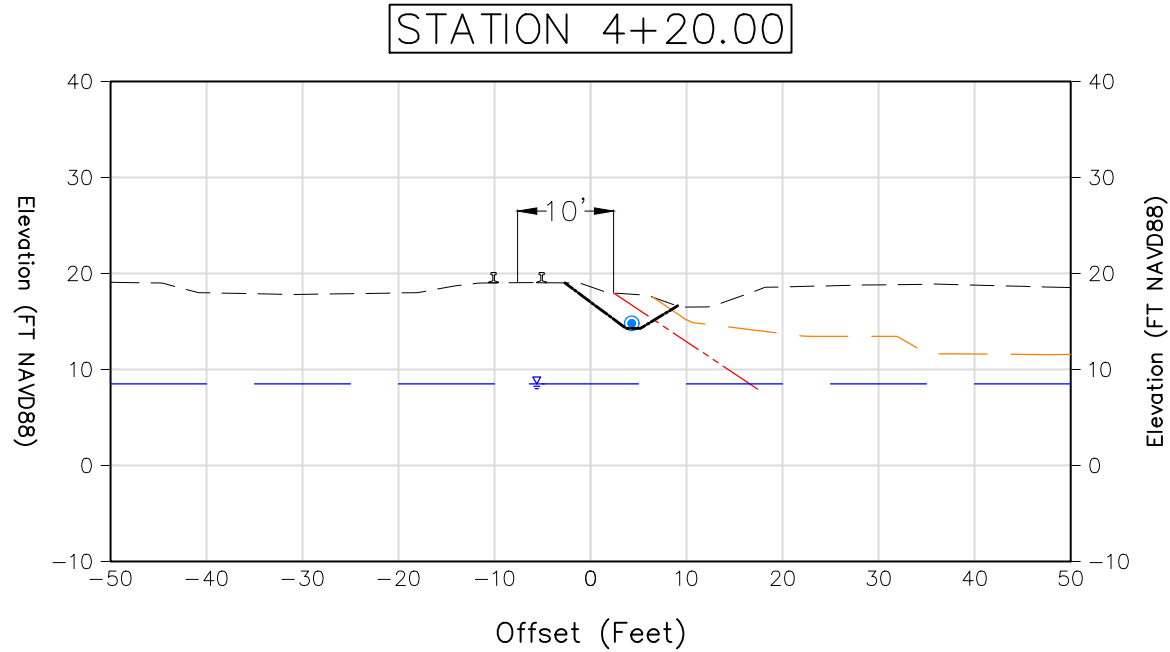
**CONRAIL SECTIONS
3+00 TO 3+90**

DATE: 05/09/2022

DRWN: JJA

FIGURE 4

File: Q:\20 SHEETS\Site 108&Conrail\2022-03-18_Conrail SOW Figures.dwg Layout: X-03 User: John.Angelone Plotted: May 09, 2022 - 5:15pm Xref's:



LEGEND:

- PROPOSED SAMPLE LOCATION
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- COMPLETED EXCAVATION SURFACE
- THEORETICAL RAILROAD EMBANKMENT LINE
- PROPOSED TEST PIT

ABBREVIATIONS:

FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988

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PPG
SITE 107, SITE 108, AND CONRAIL
JERSEY CITY, NEW JERSEY

**CONRAIL SECTIONS
4+20 TO 4+60**

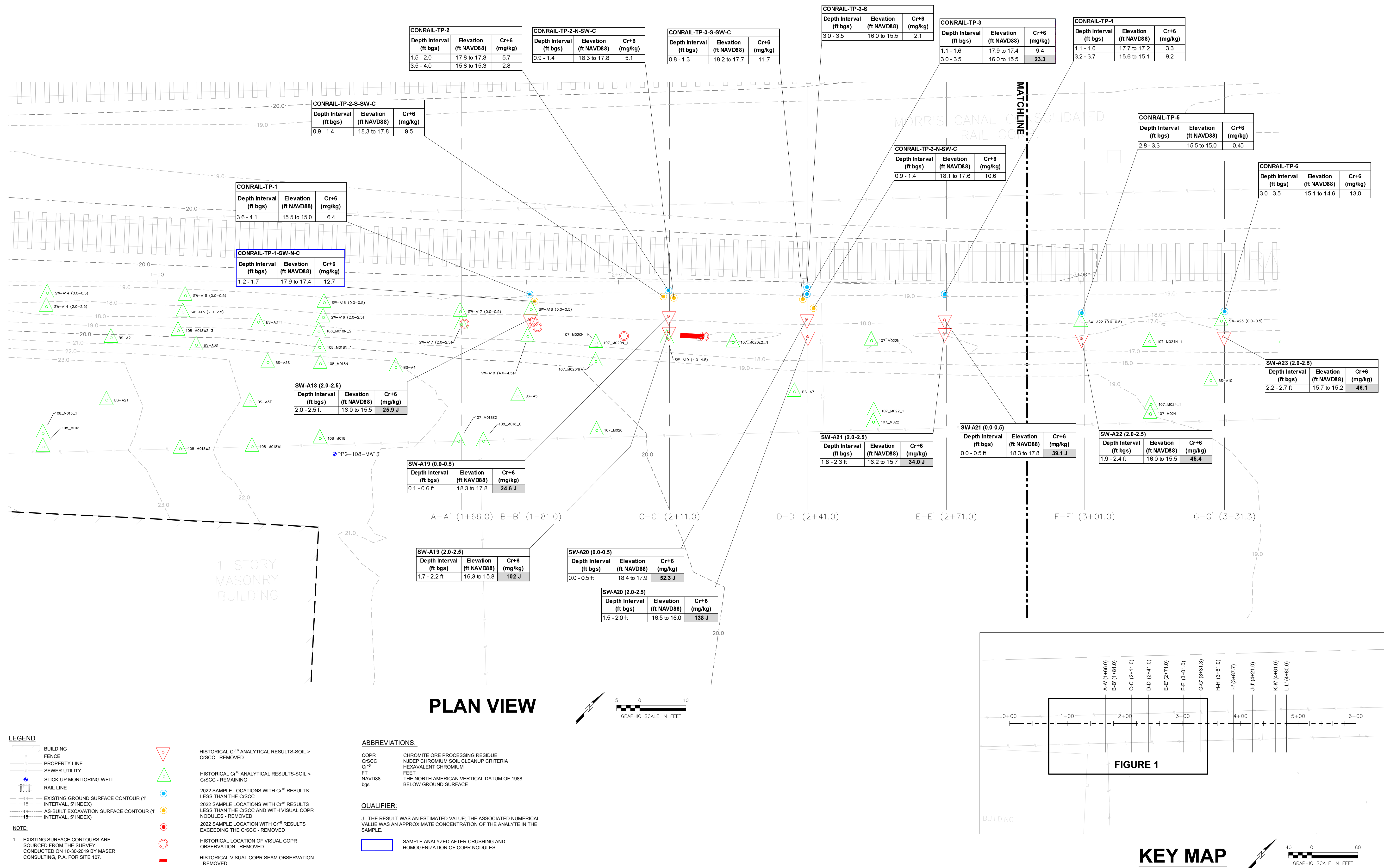
DATE: 05/09/2022

DRWN: JJA

FIGURE 5



**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Sample Location Maps and Cross-Sections**



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AECOM

LEGEND

- BUILDING
FENCE
PROPERTY LINE
SEWER UTILITY
STICK-UP MONITORING WELL
RAIL LINE
EXISTING GROUND SURFACE CONTOUR (1' INTERVAL, 5' INDEX)
AS-BUILT EXCAVATION SURFACE CONTOUR (1' INTERVAL, 5' INDEX)

NOTE:

1. EXISTING SURFACE CONTOURS ARE SOURCED FROM THE SURVEY CONDUCTED ON 10-30-2019 BY MASER CONSULTING, P.A. FOR SITE 107.

- HISTORICAL Cr+6 ANALYTICAL RESULTS-SOIL > CrSCC - REMOVED
HISTORICAL Cr+6 ANALYTICAL RESULTS-SOIL < CrSCC - REMAINING
2022 SAMPLE LOCATIONS WITH Cr+6 RESULTS LESS THAN THE CrSCC
2022 SAMPLE LOCATIONS WITH Cr+6 RESULTS LESS THAN THE CrSCC AND WITH VISUAL COPR NODULES - REMOVED
2022 SAMPLE LOCATION WITH Cr+6 RESULTS EXCEEDING THE CrSCC - REMOVED
HISTORICAL LOCATION OF VISUAL COPR OBSERVATION - REMOVED
HISTORICAL VISUAL COPR SEAM OBSERVATION - REMOVED

ABBREVIATIONS:

- COPR
CrSCC
Cr+6
FT
NAVD88
bgs
CHROMITE ORE PROCESSING RESIDUE
NUDEP CHROMIUM SOIL CLEANUP CRITERIA
HEXAVALENT CHROMIUM
FEET
THE NORTH AMERICAN VERTICAL DATUM OF 1988
BELOW GROUND SURFACE

QUALIFIER:

J - THE RESULT WAS AN ESTIMATED VALUE; THE ASSOCIATED NUMERICAL VALUE WAS AN APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

- SAMPLE ANALYZED AFTER CRUSHING AND HOMOGENIZATION OF COPR NODULES

PLAN VIEW

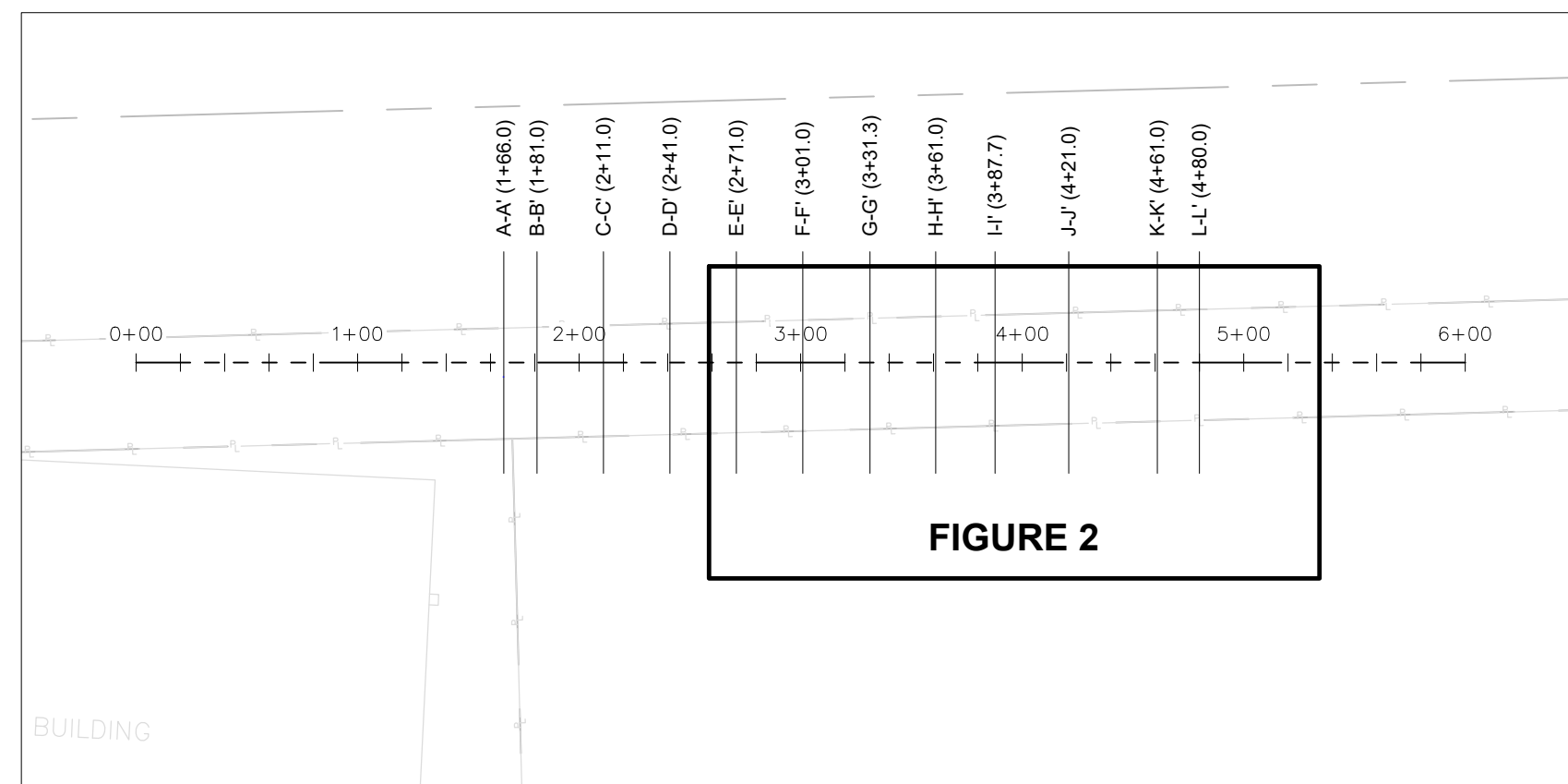
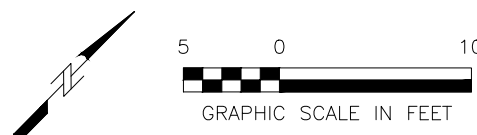
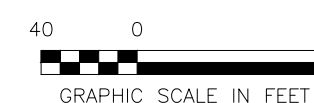


FIGURE 2

KEY MAP



PPG
CONRAIL RIGHT-OF-WAY (AOC 1)
JERSEY CITY, NEW JERSEY

DATE: 08/13/2024

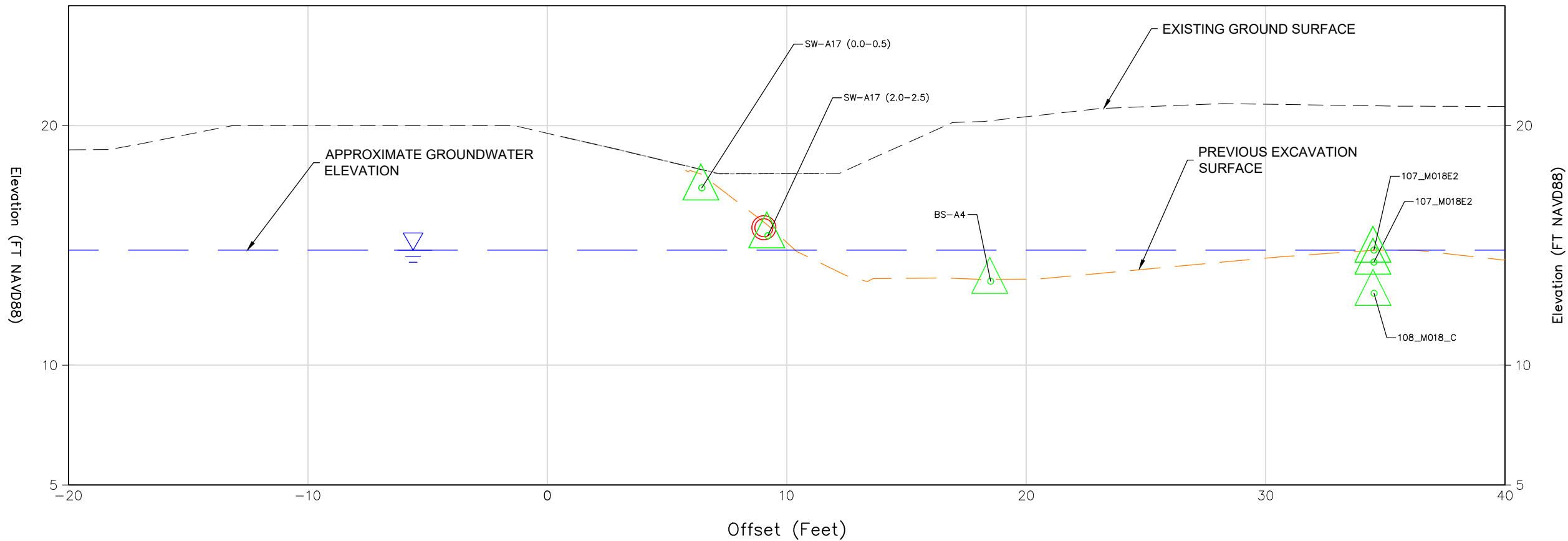
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APPENDIX B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION
SAMPLE RESULTS
PLAN VIEW

FIGURE 2

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Filename: C:\USERS\NICHOLSM1\AECOM\PPG - GDS\910 CAD\20 SHEETS\RAR\CONRAIL EXCAVATION RAR\2024-08-23_APPENDIX_B_FIGURES.DWG

CROSS-SECTION A-A'
(1+66.0)



LEGEND:

- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
- HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

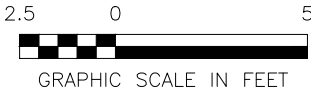
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE

NOTE:

1. THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

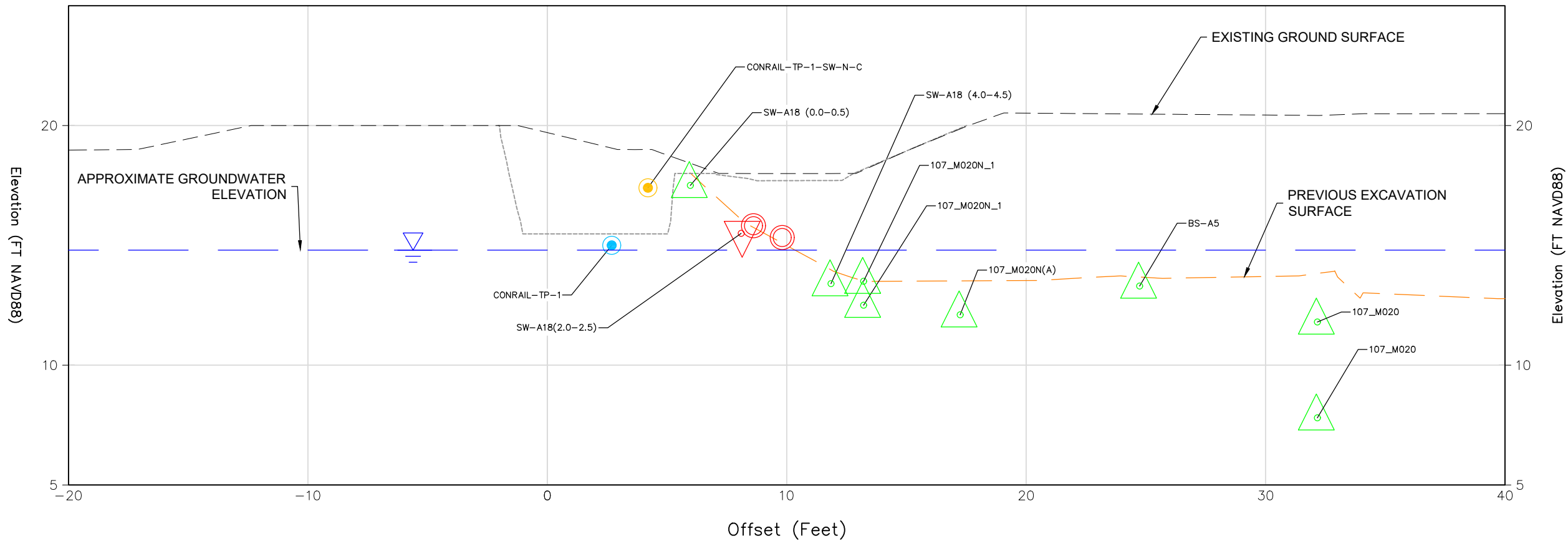
ABBREVIATIONS:

- | | |
|------------------|---|
| COPR | CHROMITE ORE PROCESSING RESIDUE |
| CrSCC | NJDEP CHROMIUM SOIL CLEANUP CRITERIA |
| Cr ⁺⁶ | HEXAVALENT CHROMIUM |
| FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 3	

CROSS-SECTION B-B'
(1+81.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- 2022 SAMPLE LOCATION WITH VISUAL COPR NODULES - REMOVED
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
- HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

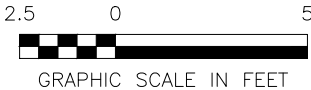
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

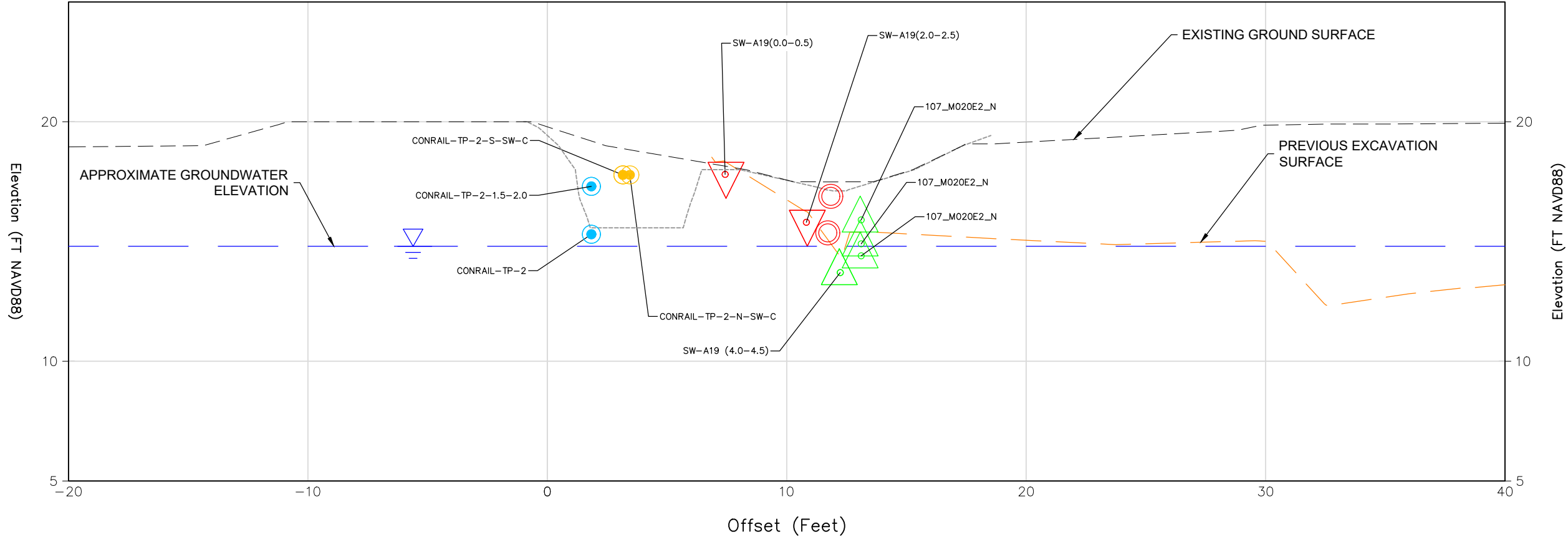
ABBREVIATIONS:

- COPR CHROMITE ORE PROCESSING RESIDUE
- CrSCC NJDEP CHROMIUM SOIL CLEANUP CRITERIA
- Cr⁺⁶ HEXAVALENT CHROMIUM
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 4	

CROSS-SECTION C-C'
(2+11.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- 2022 SAMPLE LOCATION WITH VISUAL COPR NODULES - REMOVED
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
- HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

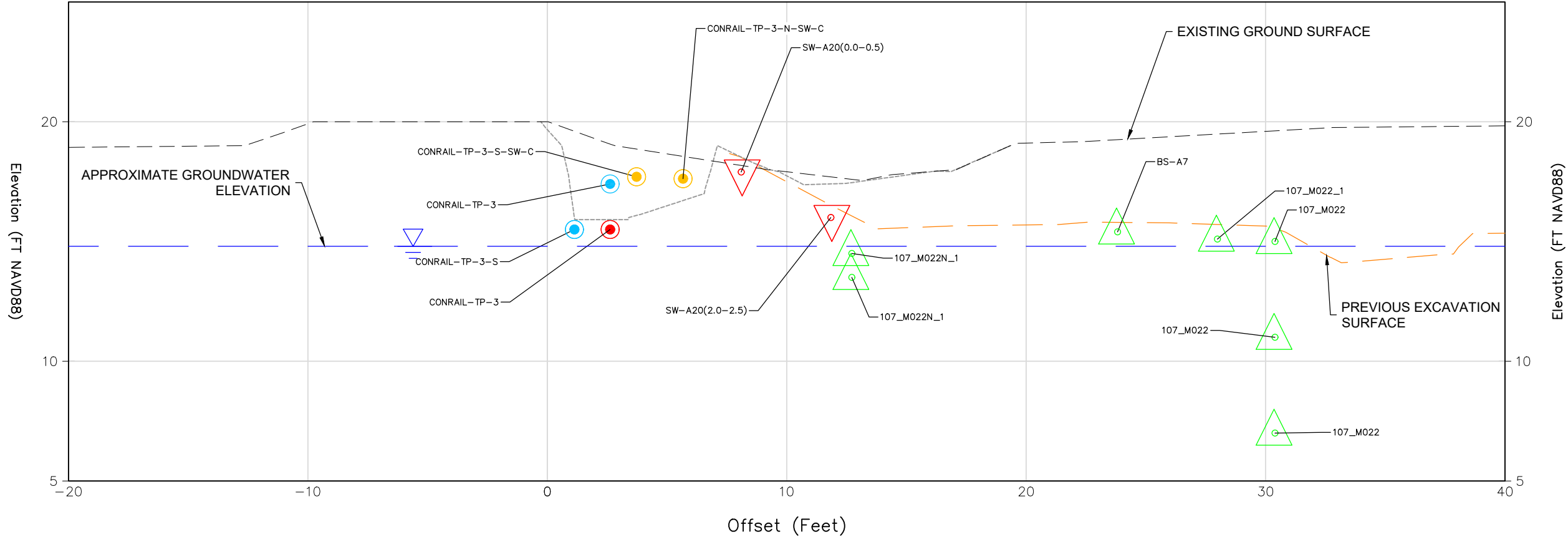
ABBREVIATIONS:

- | | |
|------------------|---|
| COPR | CHROMITE ORE PROCESSING RESIDUE |
| CrSCC | NJDEP CHROMIUM SOIL CLEANUP CRITERIA |
| Cr ⁺⁶ | HEXAVALENT CHROMIUM |
| FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 5	

CROSS-SECTION D-D'
(2+41.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- 2022 SAMPLE LOCATION WITH VISUAL COPR NODULES - REMOVED
- 2022 SAMPLE LOCATION WITH EXCEEDANCE OF THE CrSCC
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC

- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

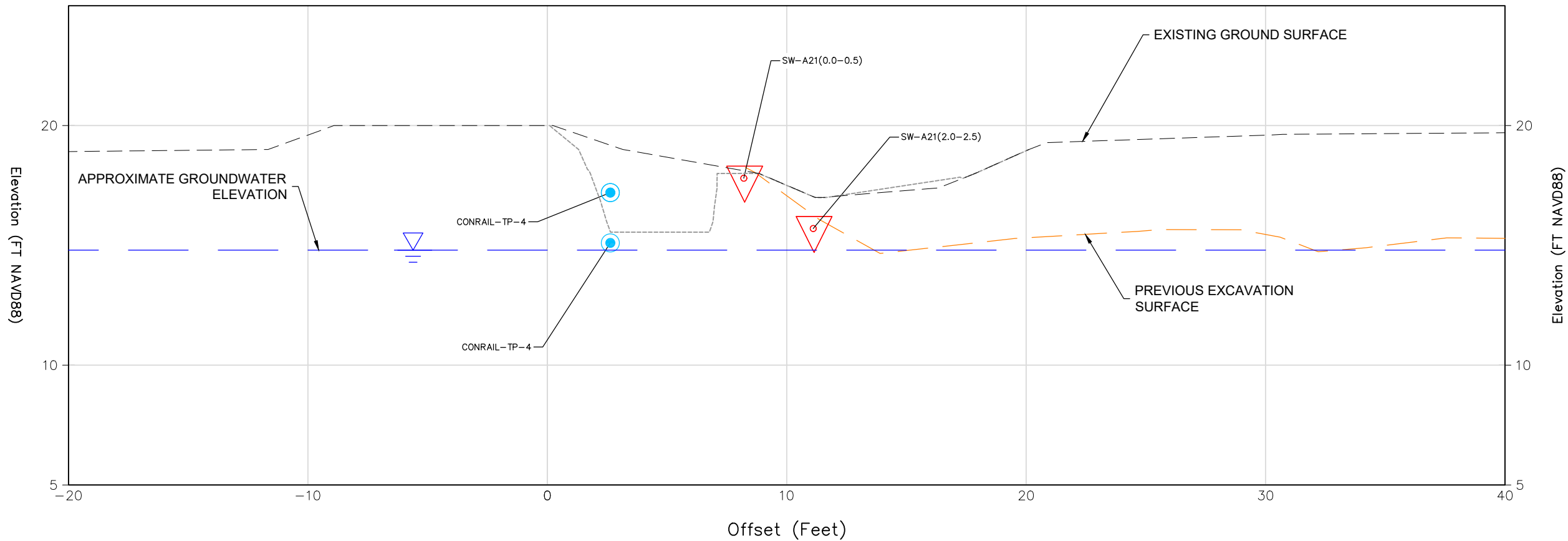
ABBREVIATIONS:

- COPR CHROMITE ORE PROCESSING RESIDUE
- CrSCC NJDEP CHROMIUM SOIL CLEANUP CRITERIA
- Cr⁺⁶ HEXAVALENT CHROMIUM
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN			FIGURE 6

CROSS-SECTION E-E'
(2+71.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC

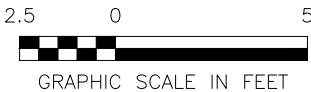
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

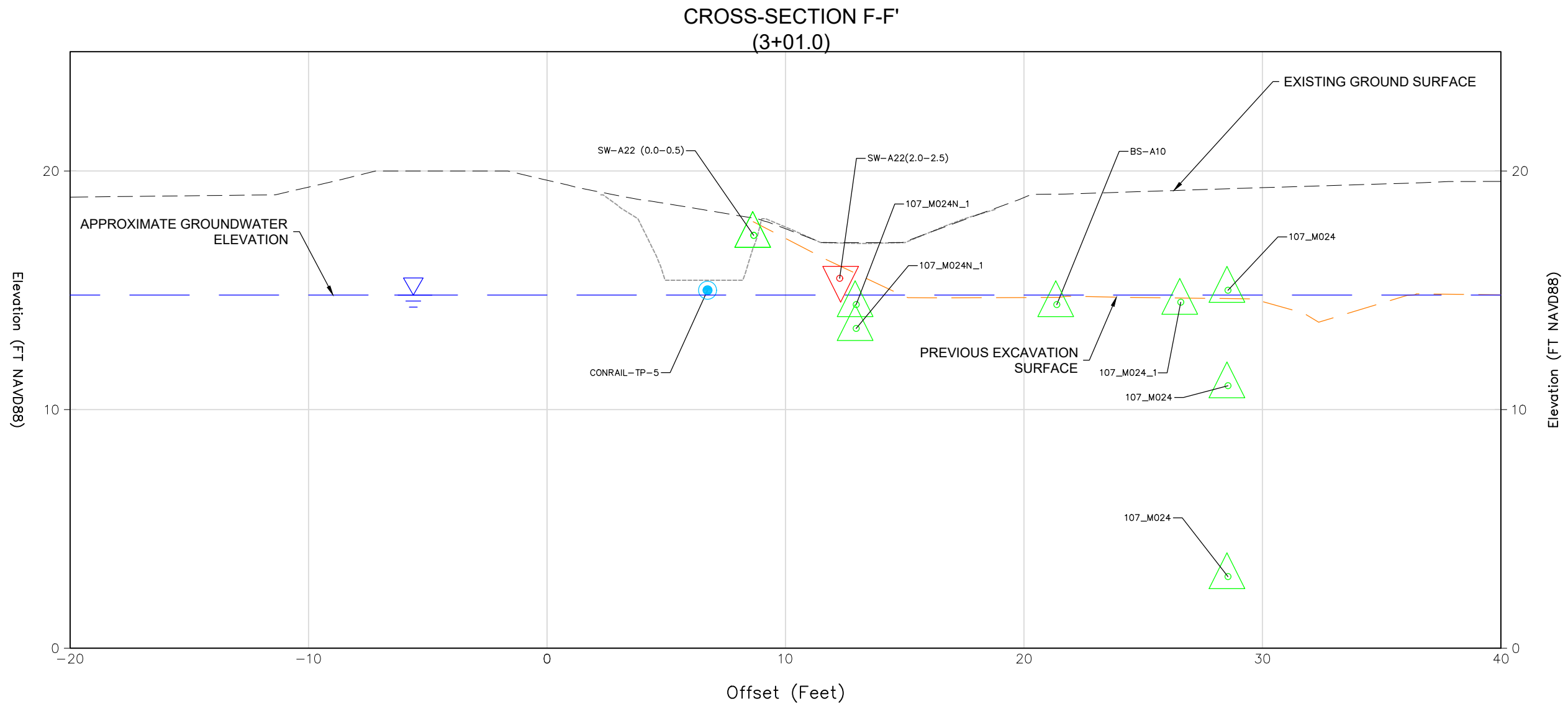
- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

ABBREVIATIONS:

- CrSCC NJDEP CHROMIUM SOIL CLEANUP CRITERIA
- Cr⁺⁶ HEXAVALENT CHROMIUM
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 7	



LEGEND:

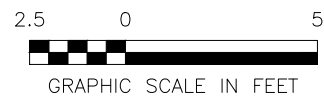
- | | | | |
|--|---|--|--------------------------------------|
| | 2022 SAMPLE LOCATIONS | | APPROXIMATE GROUNDWATER ELEVATION |
| | HISTORICAL Cr ⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr ⁺⁶ CONC. | | EXISTING GROUND SURFACE |
| | HISTORICAL Cr ⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC | | 2018 MOBILIZATION EXCAVATION SURFACE |
| | | | SUPPLEMENTAL PDI TEST PIT SURFACE |

NOTE:

1. THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

ABBREVIATIONS:

CrSCC	NJDEP CHROMIUM SOIL CLEANUP CRITERIA
Cr ⁺⁶	HEXAVALENT CHROMIUM
FT NAVD88	FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG
CONRAIL RIGHT-OF-WAY (AOC 1)
JERSEY CITY, NEW JERSEY

DATE: 08/13/2024

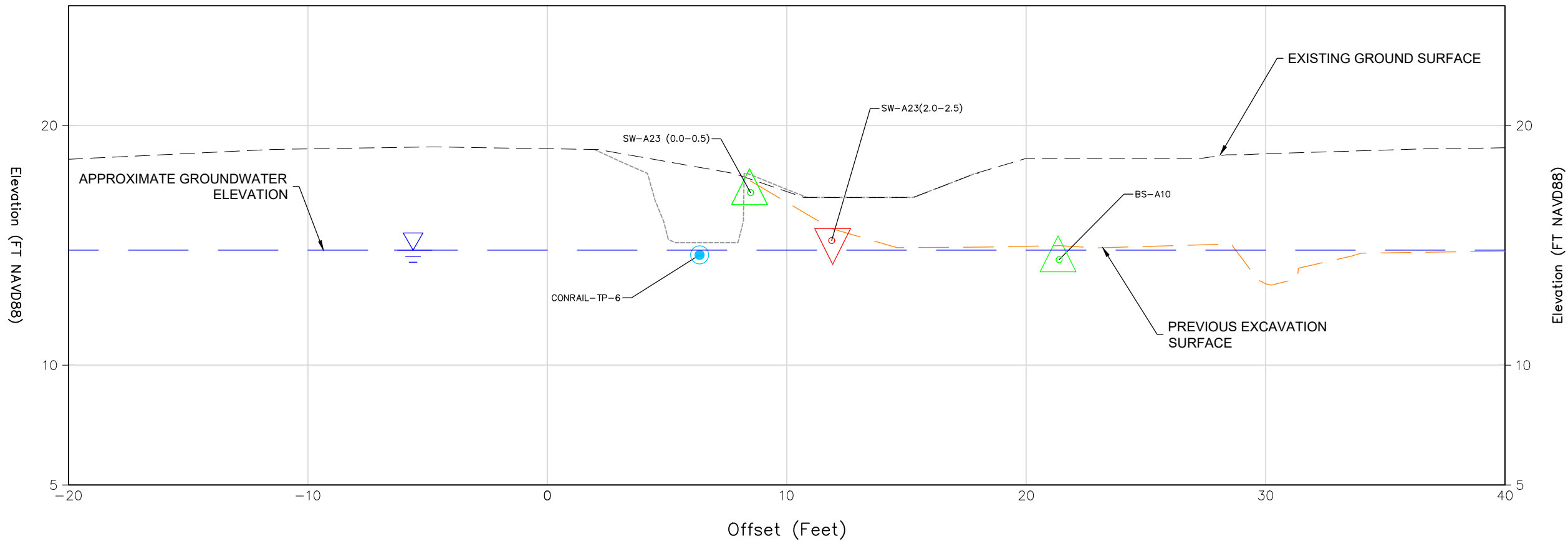
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APPENDIX B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION
SAMPLE RESULTS
SECTION VIEW

FIGURE 8

Last saved by: NICHOLSM1(2024-08-23) Last Plotted: 2011-05-25
Filename: C:\USERS\NICHOLSM1\AECOM\PPG - GDS\910 CAD\20 SHEETS\RAR\CONRAIL EXCAVATION RAR\2024-08-23_APPENDIX_B_FIGURES.DWG

CROSS-SECTION G-G'
(3+31.3)



LEGEND:

- 2022 SAMPLE LOCATIONS
- HISTORICAL Cr^{+6} ANALYTICAL RESULTS-SOIL > CrSCC, Cr^{+6} CONC.
- HISTORICAL Cr^{+6} ANALYTICAL RESULTS-SOIL < CrSCC

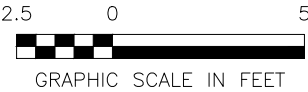
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

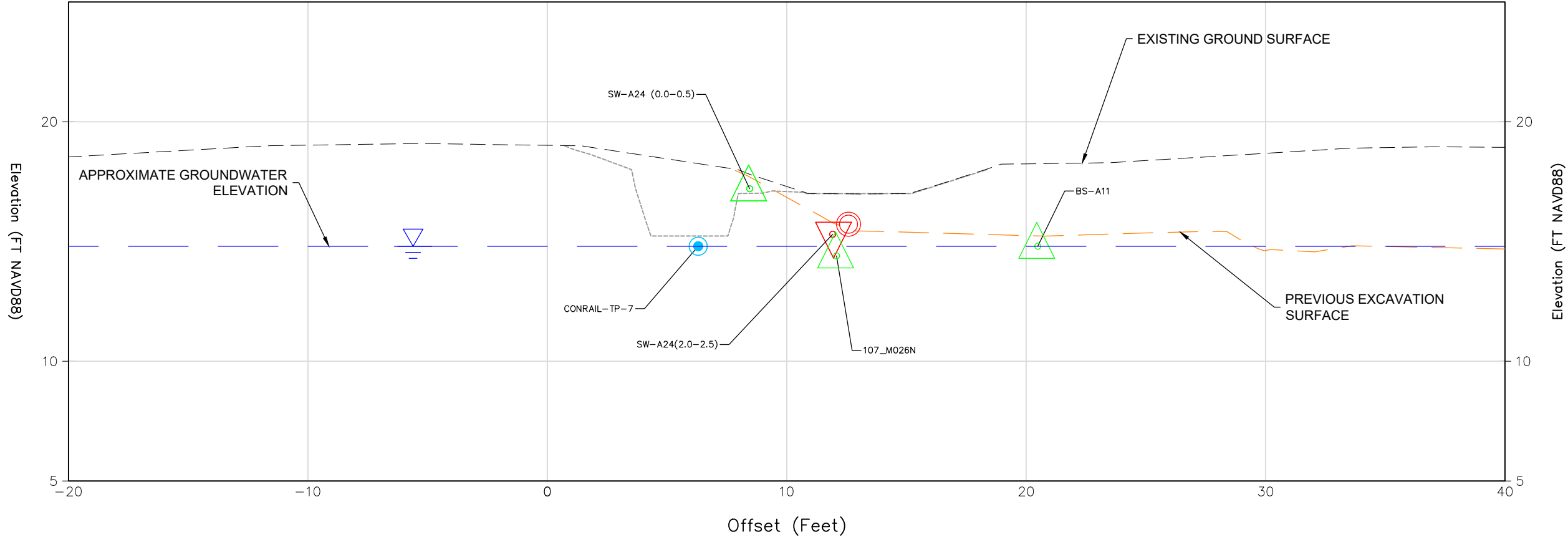
ABBREVIATIONS:

- CrSCC NJDEP CHROMIUM SOIL CLEANUP CRITERIA
- Cr^{+6} HEXAVALENT CHROMIUM
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 9	

CROSS-SECTION H-H'
(3+61.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
- HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

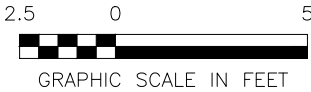
- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

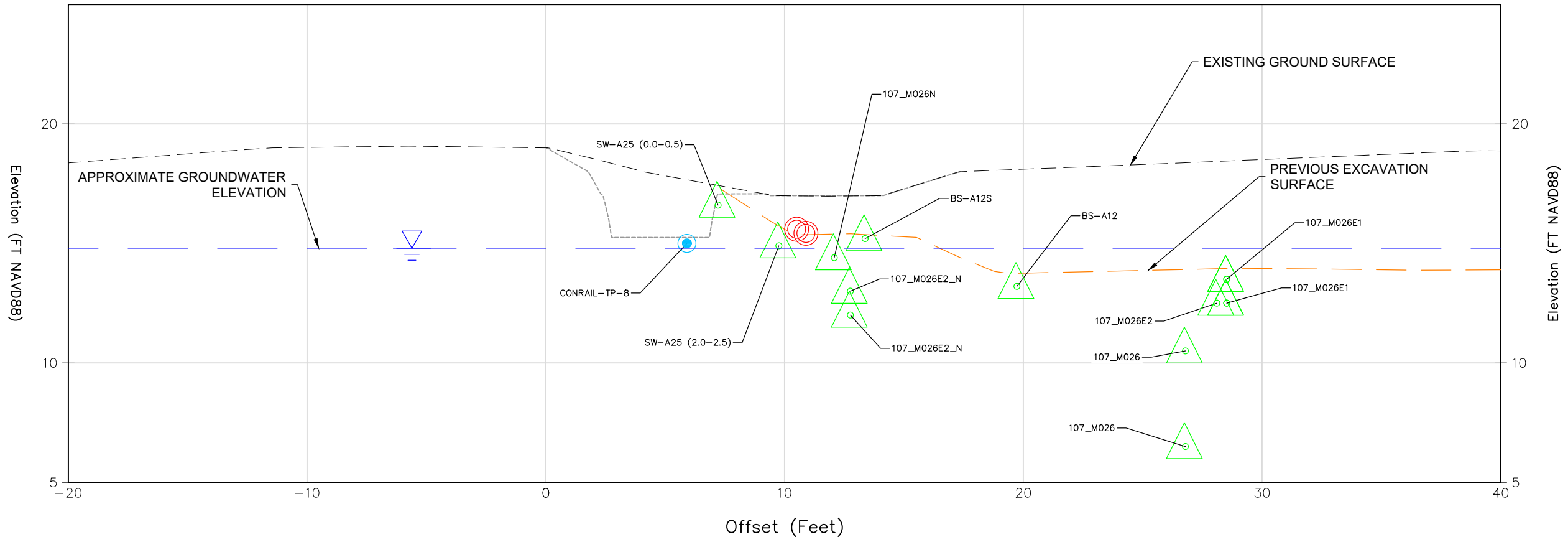
ABBREVIATIONS:

- | | |
|------------------|---|
| COPR | CHROMITE ORE PROCESSING RESIDUE |
| CrSCC | NJDEP CHROMIUM SOIL CLEANUP CRITERIA |
| Cr ⁺⁶ | HEXAVALENT CHROMIUM |
| FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |










PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 10	

CROSS-SECTION I-I'
(3+87.7)



LEGEND:

-  2022 SAMPLE LOCATIONS
 HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
 HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
 HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

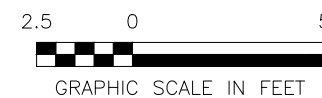
-
-  APPROXIMATE GROUNDWATER ELEVATION
 EXISTING GROUND SURFACE
 2018 MOBILIZATION EXCAVATION SURFACE
 SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

1. THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

ABBREVIATIONS:

COPR	CHROMITE ORE PROCESSING RESIDUE
CrSCC	NJDEP CHROMIUM SOIL CLEANUP CRITERIA
Cr ⁺⁶	HEXAVALENT CHROMIUM
FT NAVD88	FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988

**AECOM**

PPG
CONRAIL RIGHT-OF-WAY (AOC 1)
JERSEY CITY, NEW JERSEY

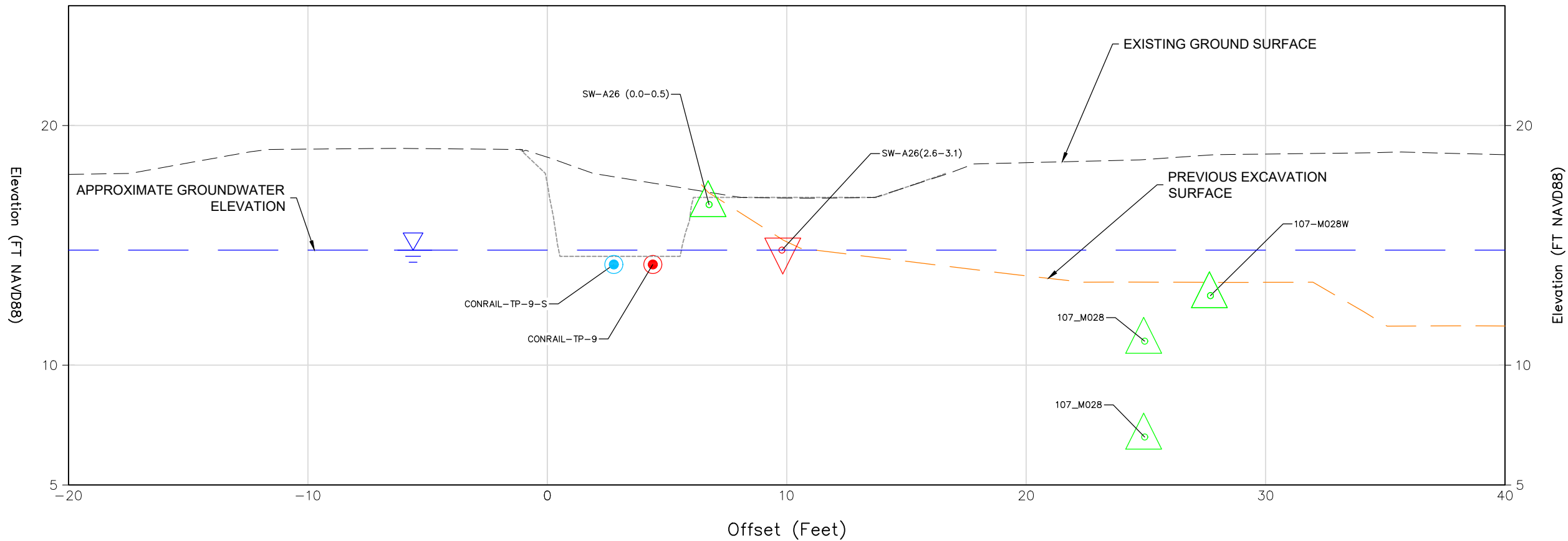
DATE: 08/13/2024

DRWN: MDN

APPENDIX B
SUPPLEMENTAL PRE-DESIGN INVESTIGATION
SAMPLE RESULTS
SECTION VIEW

FIGURE 11

CROSS-SECTION J-J'
(4+21.0)



LEGEND:

- | | | | |
|--|---|--|--------------------------------------|
| | 2022 SAMPLE LOCATIONS | | APPROXIMATE GROUNDWATER ELEVATION |
| | 2022 SAMPLE LOCATION WITH EXCEEDANCE OF THE CrSCC | | EXISTING GROUND SURFACE |
| | HISTORICAL Cr ⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr ⁺⁶ CONC. | | 2018 MOBILIZATION EXCAVATION SURFACE |
| | HISTORICAL Cr ⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC | | SUPPLEMENTAL PDI TEST PIT SURFACE |

NOTE:

1. THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

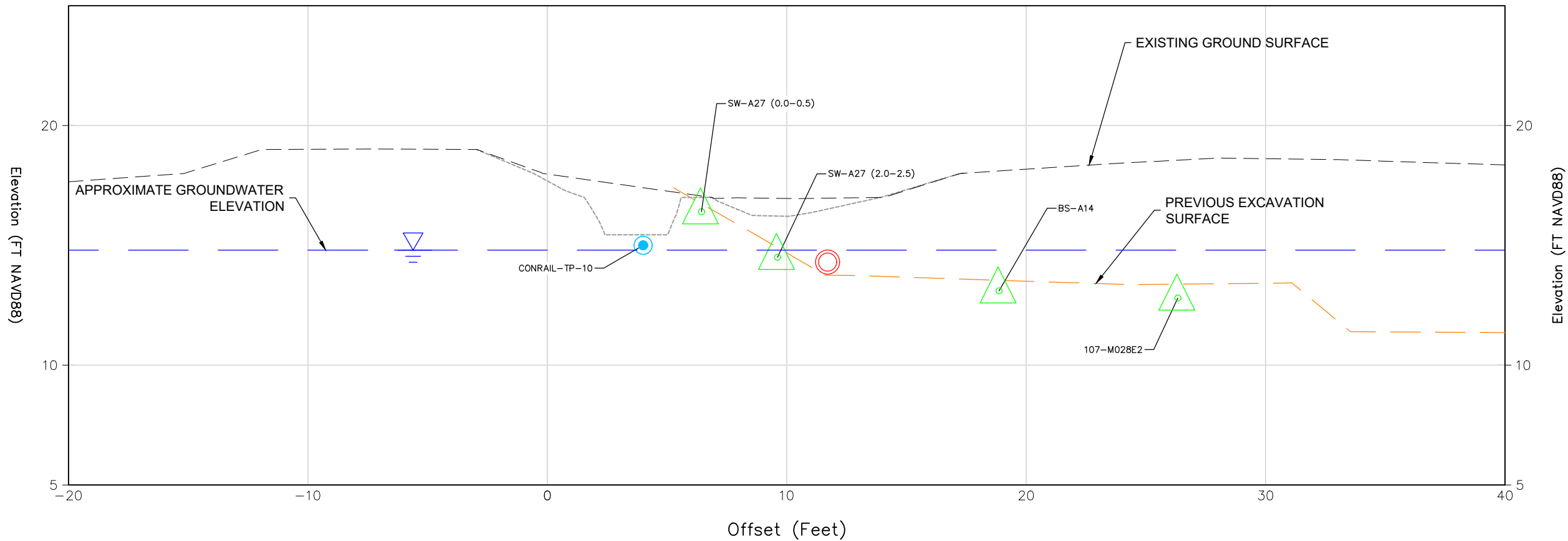
ABBREVIATIONS:

- | | |
|------------------|---|
| COPR | CHROMITE ORE PROCESSING RESIDUE |
| CrSCC | NJDEP CHROMIUM SOIL CLEANUP CRITERIA |
| Cr ⁺⁶ | HEXAVALENT CHROMIUM |
| FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 12	

CROSS-SECTION K-K'
(4+61.0)



LEGEND:

- 2022 SAMPLE LOCATIONS
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL > CrSCC, Cr⁺⁶ CONC.
- HISTORICAL Cr⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC
- HISTORICAL LOCATION OF VISUAL COPR OBSERVATION

- APPROXIMATE GROUNDWATER ELEVATION
- EXISTING GROUND SURFACE
- 2018 MOBILIZATION EXCAVATION SURFACE
- SUPPLEMENTAL PDI TEST PIT SURFACE

NOTE:

- THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

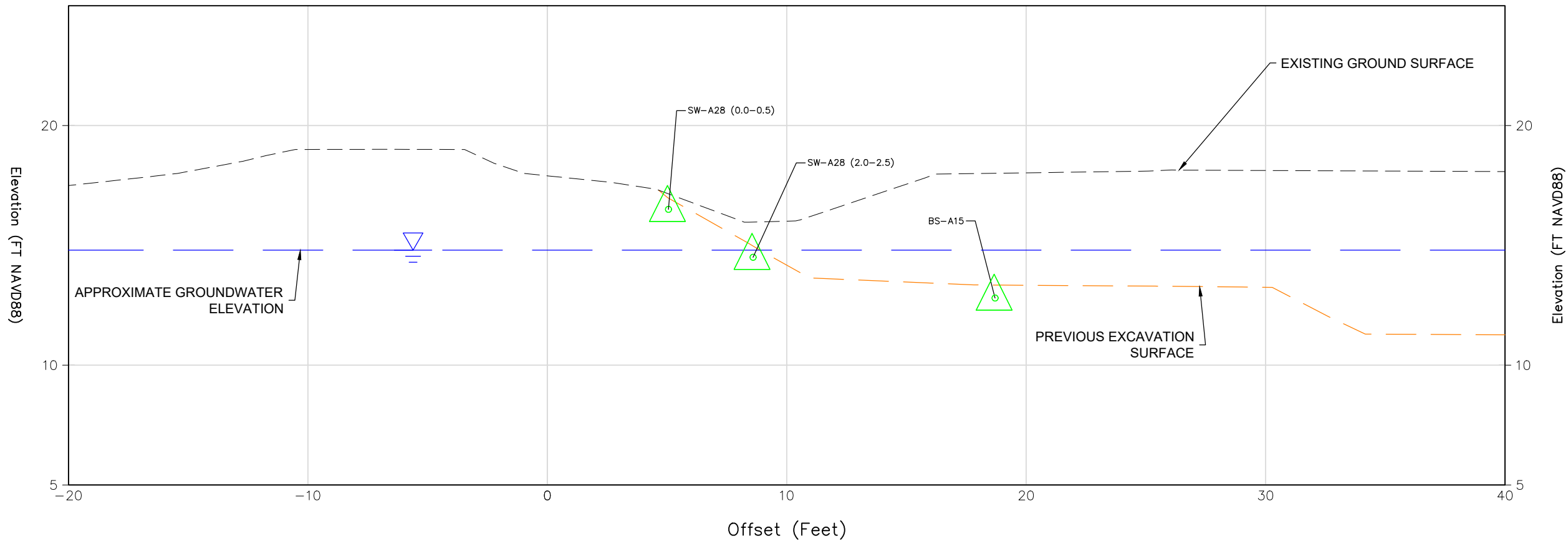
ABBREVIATIONS:

- COPR CHROMITE ORE PROCESSING RESIDUE
- CrSCC NJDEP CHROMIUM SOIL CLEANUP CRITERIA
- Cr⁺⁶ HEXAVALENT CHROMIUM
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 13	

CROSS-SECTION L-L'
(4+80.0)



LEGEND:

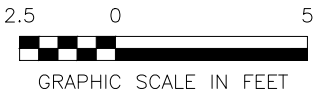
- | | | | |
|---|---|--|--------------------------------------|
|  | HISTORICAL Cr ⁺⁶ ANALYTICAL RESULTS-SOIL < CrSCC |  | APPROXIMATE GROUNDWATER ELEVATION |
| | |  | EXISTING GROUND SURFACE |
| | |  | 2018 MOBILIZATION EXCAVATION SURFACE |

NOTE:

1. THE SAMPLE LOCATIONS DEPICTED ON THIS CROSS-SECTION REFERENCE THE BOTTOM ELEVATION OF THE SAMPLED INTERVAL. AS A RESULT, THE SAMPLE LOCATIONS MAY APPEAR BENEATH THE BOTTOM TEST PIT SURFACE ELEVATION.

ABBREVIATIONS:

- | | |
|------------------|---|
| CrSCC | NJDEP CHROMIUM SOIL CLEANUP CRITERIA |
| Cr ⁺⁶ | HEXAVALENT CHROMIUM |
| FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |



PPG CONRAIL RIGHT-OF-WAY (AOC 1) JERSEY CITY, NEW JERSEY			APPENDIX B SUPPLEMENTAL PRE-DESIGN INVESTIGATION SAMPLE RESULTS SECTION VIEW	
DATE: 08/13/2024	DRWN: MDN		FIGURE 14	

**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Analytical Results from Soil Samples Compared to the CrSCC**

Appendix B
Analytical Results from Soil Samples Compared to the CrSCC
Supplemental Pre-Design Investigation (PDI)
Conrail Right-of-Way (AOC 1)
PPG, Jersey City, New Jersey



										Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20
Location ID (G1)	Location Elevation (ft NAVD88) (G2, G3)	Sample ID (G4)	Depth Interval (ft bgs) (G5)	Sample Start Elevation (ft NAVD88) (G6)	Sample End Elevation (ft NAVD88) (G7)	Lab Sample ID (G8)	Lab SDG (G8)	Date Collected (G9)	Sample Type (G10)	Validated (Y/N) (G11)	Result (G14, G15, G16)
CONRAIL-TP-1	19.1	CONRAIL-TP-1-3.6-4.1	3.6 - 4.1 ft	15.5	15.0	JD52479-1	JD52479	09/24/2022	N	Y	6.4 J
CONRAIL-TP-1-SW-N-C*	19.1	CONRAIL-TP-1-SW-N-C	1.2 - 1.7 ft	17.9	17.4	JD52479-3	JD52479	09/24/2022	N	Y	12.7 J
CONRAIL-TP-2	19.3	CONRAIL-TP-2-1.5-2.0	1.5 - 2.0 ft	17.8	17.3	JD51581-1	JD51581	09/11/2022	N	Y	5.7 J
CONRAIL-TP-2	19.3	CONRAIL-TP-2-1.5-2.0X	1.5 - 2.0 ft	17.8	17.3	JD51581-2	JD51581	09/11/2022	FD	Y	4.7 J
CONRAIL-TP-2	19.3	CONRAIL-TP-2-3.5-4.0	3.5 - 4.0 ft	15.8	15.3	JD51581-3	JD51581	09/11/2022	N	Y	2.8 J
CONRAIL-TP-2-N-SW-C	19.2	CONRAIL-TP-2-N-SW-C	0.9 - 1.4 ft	18.3	17.8	JD51581-5	JD51581	09/11/2022	N	Y	5.1 J
CONRAIL-TP-2-S-SW-C	19.2	CONRAIL-TP-2-S-SW-C	0.9 - 1.4 ft	18.3	17.8	JD51581-4	JD51581	09/11/2022	N	Y	9.5 J
CONRAIL-TP-3	19.0	CONRAIL-TP-3-1.1-1.5	1.1 - 1.6 ft	17.9	17.4	JD51581-10	JD51581	09/11/2022	N	Y	9.4 J
CONRAIL-TP-3	19.0	CONRAIL-TP-3-3.0-3.5	3.0 - 3.5 ft	16.0	15.5	JD51581-11	JD51581	09/11/2022	N	Y	23.3 J
CONRAIL-TP-3-N-SW-C	19.0	CONRAIL-TP-3-N-SW-C	0.9 - 1.4 ft	18.1	17.6	JD51581-13	JD51581	09/11/2022	N	Y	10.6 J
CONRAIL-TP-3-S	19.0	CONRAIL-TP-3-3.0-3.5-S	3.0 - 3.5 ft	16.0	15.5	JD52486-1	JD52486	09/25/2022	N	Y	2.1 J
CONRAIL-TP-3-S-SW-C	19.0	CONRAIL-TP-3-S-SW-C	0.8 - 1.3 ft	18.2	17.7	JD51581-12	JD51581	09/11/2022	N	Y	11.7 J
CONRAIL-TP-4	18.8	CONRAIL-TP-4-1.1-1.6	1.1 - 1.6 ft	17.7	17.2	JD51581-8	JD51581	09/11/2022	N	Y	3.3 J
CONRAIL-TP-4	18.8	CONRAIL-TP-4-3.2 - 3.7	3.2 - 3.7 ft	15.6	15.1	JD51581-9	JD51581	09/11/2022	N	Y	9.2 J
CONRAIL-TP-5	18.3	CONRAIL-TP-5-2.8-3.3	2.8 - 3.3 ft	15.5	15.0	JD52479-5	JD52479	09/24/2022	N	Y	0.45 J
CONRAIL-TP-6	18.1	CONRAIL-TP-6-3.0-3.5	3.0 - 3.5 ft	15.1	14.6	JD51581-7	JD51581	09/11/2022	N	Y	13.0 J
CONRAIL-TP-7	18.1	CONRAIL-TP-7-2.8-3.3	2.8 - 3.3 ft	15.3	14.8	JD52479-7	JD52479	09/24/2022	N	Y	2.3 J
CONRAIL-TP-8	17.8	CONRAIL-TP-8-2.3-2.8	2.3 - 2.8 ft	15.5	15.0	JD52479-9	JD52479	09/24/2022	N	Y	2.4 J
CONRAIL-TP-9	17.5	CONRAIL-TP-9-2.8-3.3	2.8 - 3.3 ft	14.7	14.2	JD51581-6	JD51581	09/11/2022	N	Y	23.7 J
CONRAIL-TP-9-S	17.5	CONRAIL-TP-9-2.8-3.3-S	2.8 - 3.3 ft	14.7	14.2	JD52486-2	JD52486	09/25/2022	N	Y	0.88 J
CONRAIL-TP-9-S	17.5	CONRAIL-TP-9-2.8-3.3-S-X	2.8 - 3.3 ft	14.7	14.2	JD52486-3	JD52486	09/25/2022	FD	Y	1.8 J
CONRAIL-TP-10	17.4	CONRAIL-TP-10-1.9-2.4	1.9 - 2.4 ft	15.5	15.0	JD52479-11	JD52479	09/24/2022	N	Y	9.7 J
CONRAIL-TP-10	17.4	CONRAIL-TP-10-1.9-2.4-X	1.9 - 2.4 ft	15.5	15.0	JD52479-12	JD52479	09/24/2022	FD	Y	10.6 J

ABBREVIATIONS:

- bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
COPR - Chromite Ore Processing Residue
CrSCC - Chromium Soil Cleanup Criteria
FD - field duplicate sample type
ft - feet
mg/kg - milligrams per kilogram
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
SDG - sample delivery group

QUALIFIERS:




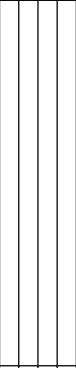
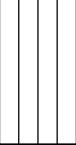
J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.

GENERAL NOTES:

- * Sample analyzed after crushing and homogenization of Chromite Ore Processing Residue (COPR) nodules.
G1. "Location ID" refers to the location name where samples were collected.
G2. "Location Elevation" refers to the pre-remediation surface elevation.
G3. Elevation vertical datum is NAVD88, in U.S. survey ft.
G4. "Sample ID" refers to the name of a sample collected at a given location and is unique to the depth of the sample collected. In some cases, the "Sample ID" in the table is a variant of the sample ID in the laboratory report and/or data validation report. In these cases, the "Lab ID" associates the sample results to the laboratory report and/or data validation report.
G5. "Depth Interval" is based on the "Location Elevation."
G6. "Sample Start Elevation" refers to the start of the sample interval. There may be up to 0.1 ft variation between the listed Sample Start Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G7. "Sample End Elevation" refers to the end of the sample interval. There may be up to 0.1 ft variation between the listed Sample End Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G8. "Lab ID" refers to the identification number assigned to the sample by the analytical laboratory performing the sample analysis. "Lab SDG" refers to the delivery group number assigned to the sample by the analytical laboratory.
G9. "Date Collected" refers to the date the soil sample was collected.
G10. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G11. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G14. "Result" refers to the analytical result, which is reported in mg/kg.
G15. Bold text indicates that the result exceeds the CrSCC. Non-bold text indicates that the result does not exceed the CrSCC.
G16. Non-detect results are shown on this table using the method detection limit or the reporting limit.

**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Test Pit Logs**

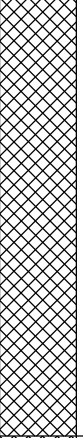
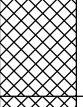
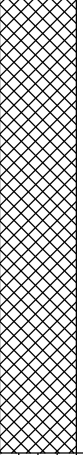
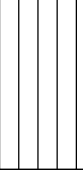
Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 4.1 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					FILL		DGA	
1					FILL		6 in layer of fine brown to black medium sand, moist, 5% slag, some ash, coal fragments, wood fragments	
2					FILL		15 inch layer of 50% slag, some coal, ash/cinders, angular gravel, brown fine to medium sand *Note that trace COPR (3 nodules) was observed within this fill layer along the western sidewall and was removed prior to backfill.	CONRAIL-TP-1-SW-N-C
3					ML		15 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	
4					ML		6 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	CONRAIL-TP-1-3.6-4.1

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

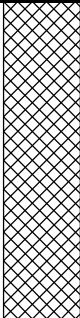
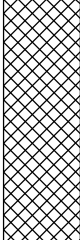
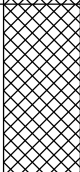

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 4 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	
		0.0			FILL		Brownish black fine to medium sand, 5% slag, small angular gravel and some ash and coal	CONRAIL-TP-2-N-SW-C CONRAIL-TP-2-S-SW-C
2					FILL		17 inch layer of ash/cinders, 50% slag, some coal, angular gravel, brown fine to medium sand	CONRAIL-TP-2-1.5-2.0
3					ML		7 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	CONRAIL-TP-2-3.5-4.0
4								

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:


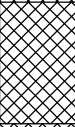
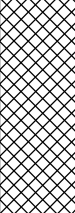

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.5 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	
					*Note that trace COPR (5 nodules) was observed in the southern test pit sidewall within the top 6-inch fill layer. The observed COPR nodules were removed prior to backfill.		CONRAIL-TP-3-S-SW-C	
							CONRAIL-TP-3-N-SW-C	
					FILL		6 inch layer of reworked UND	CONRAIL-TP-3-1.1-1.6
2					FILL		10 inch layer of black sand, slag, coal, etc	
3					FILL		7 inch layer of historic fill, ash	
					ML		UND	CONRAIL-TP-3-3.0-3.5 CONRAIL-TP-3-S

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:


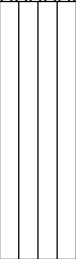
Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.7 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	CONRAIL-TP-4-1.1-1.6
					FILL		9.5 inch layer of ash/cinders, 50% slag, some coal, angular gravel, brown fine to medium sand	
					FILL		5 inch layer of black fine to medium sand with medium angular gravel	
					FILL		9 inch layer historic fill, ash layer, 80% slag, fine to medium dark brown sand, some cinders and coal, large 6-8 inch slag, blue coloration.	
2					FILL		5 inch layer of black fine to medium sand with medium angular gravel	CONRAIL-TP-4-3.2-3.7
3					FILL		9 inch layer historic fill, ash layer, 80% slag, fine to medium dark brown sand, some cinders and coal, large 6-8 inch slag, blue coloration.	
					ML		6 inch layer UND	

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

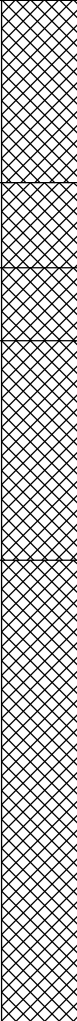
Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			Moist		FILL		4 inch layer of DGA	
			Moist		FILL		7 inch layer of light brown to tan fine to medium sand, small brick fragments, small angular gravel	
			Moist		FILL		8 inch layer of brown to black fine to medium sand, small angular gravel	
			Moist		FILL		10 inch layer of 50% slag, some coal, ash/cinders, angular gravel, brown fine to medium sand	
2			Moist		ML		7 inch layer of mottled UND varying in color, dark brown to orange to light tan	
3								CONRAIL-TP-5-2.8-3.3

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

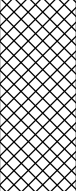

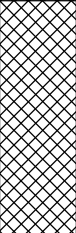
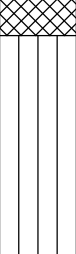
Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.5 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	
					FILL		3.5 inch layer of light brown fine to medium sand, trace coal, 5-10% slag, ash, some brick pieces, small angular gravel	
					FILL		3 inch layer of black fine to medium sand, some large angular gravel, some silt, little coal	
					FILL		9 inch layer of ash, 5-10% slag, fine to medium dark brown sand with ash, coal	
					FILL		19 inch layer of UND interbedded with 5-10% slag, ash, coal fragments, small angular gravel	
2								
3								
								CONRAIL-TP-6-3.0-3.5

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					FILL		8 inch layer of DGA	
1					FILL		6 inch layer of brownish black fine to medium sand, 5% slag	
					FILL		11 inch layer of ash/cinders	
2					ML		10 layer of mottled UND	
3								CONRAIL-TP-7-2.8-3.3

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.33 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

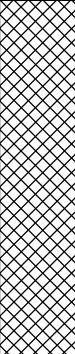




[illegible]

Notes:	bgs = below surface grade DGA = dense graded aggregate	NAD83 = North American Horizontal Datum of 1983 NAVD88 = North American Vertical Datum of 1988	NJSP = New Jersey State Plane PID = photoionization detector	ppm = parts per million USCS = Unified Soil Classification System	ft = feet in = inches
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Comments:

PPG - 2012-09 RA PPG_LOGS_A.GDT - 5/15/24 09:56

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					FILL		DGA	
1					FILL		Light brown fine to medium sand, little angular gravel, trace brick fragments	
					FILL		Historic fill, ash, 10% slag, cinders, 10% coal, 3 inches below fine to medium sand, angular rock	
2					FILL		Fine to medium sand, angular rock	
					ML		9 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles. Timber fragments and water observed at base of test pit	
3								CONRAIL-TP-9-2.8-3.3 CONRAIL-TP-9-S

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Waste Disposal Documentation**



Ticket/Manifest

Date Range: 1/1/2023 to 1/31/2023
 333355 to 333355
 Facility : All Facility's
 Both Inbound and Outbound
 Both 3rd Party and Intercompany
 Detail

Ticket Date In	Ticket #	Vehicle ID	Weight In	Weight Out	Material	Tons	Tracking Qty	UOM	Contract	Reference	Bol	Time In	Time Out
Customer 333,355 US Ecology													
Facility : CL													
01/05/2023	1444546	SPEC	51,300	32,300	SW-CONT SOIL	9.50	0.00	YD	50812217088	Hudson County Chrome Site 107 Conrail Non	984	1501817	9:47 am 11:11 am
01/05/2023	1444547	SPEC	70,660	35,080	SW-CONT SOIL	17.79	0.00	YD	50812216681	Hudson County Chrome Site 114 Non Reg Soil	985	1501816	9:48 am 11:13 am
01/06/2023	1444721	SPEC	46,200	35,120	SW-CONT SOIL	5.54	0.00	YD	50812217088	Hudson County Chrome Site 107 Conrail Non	985	1501818	7:24 am 9:11 am
01/06/2023	1444740	SPEC	80,560	34,940	SW-CONT SOIL	22.81	0.00	YD	50812216681	Hudson County Chrome Site 114 Non Reg Soil	3014	1501820	8:30 am 9:51 am
Total = 15.04 Tons							Facility	4	Tons :	55.64	Tracking	0.00	
Grand Totals									4	Tons :	55.64	Tracking	0.00

**REPUBLIC**
SERVICES**NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST**

1501817

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III**I. GENERATOR** (Generator completes Ia-r)

a. Generator's US EPA ID Number NJD986609311 <i>15R000076158</i>		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: ppg - Hudson County Chrome Site 114 107 Conrail 900 Garfield Ave, Jersey City NJ 07035			e. Generator's Mailing Address: 400 College Park Dr Monroeville PA 15146		
f. Phone: 724-325-5070 <i>18 Chapel Ave & 20 Linden Ave</i>			g. Phone: 724-325-5070		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
50812216681 <i>508122/7088</i>	12/12/23 <i>12/6/23</i>	non regulated soil	001	EST. <i>20</i>	Tons <i>cy</i>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Brandon Murphy on behalf of PPG</i>	q. Signature <i>[Signature]</i>	r. Date <i>1/5/2023</i>
--	------------------------------------	----------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Freehold Cartage Inc. 825 HWY 33 East, Freehold NJ 07728		
b. Phone: 732-462-1001		
c. Driver Name (Print) <i>Joe Noble</i>	d. Signature <i>[Signature]</i>	e. Date <i>1-5-23</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Conestoga Landfill 420 Quarry Rd, MorganXXXXE town PA 19543		c. US EPA Number PAD0000015867	d. Discrepancy Indication Space: <i>9.50</i>
b. 610-286-6844			
I, <i>[Signature]</i> , certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature <i>[Signature]</i>	g. Date <i>1/5/23</i>	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			

**REPUBLIC**
SERVICES**NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST**

1501818

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III**GENERATOR** (Generator completes Ia-r)

a. Generator's US EPA ID Number NJR000076158		b. Manifest Document Number		c. Page 1 of 1	
d. Generator's Name and Location: PPG- Hudson County Chrome Site 107 (Conrail) 18 Chapel Ave. & 20 Linden Ave E Jersey City NJ 07305			e. Generator's Mailing Address: 440 College Park Drive Monroeville PA, 15146		
f. Phone: (724) 325-5979			g. Phone: (724) 325-5070		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity
50812217088	12/6/23	Non Regulated Soil	001	CM	est 5
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Brandon Murphy on behalf of PPG			q. Signature <i>[Signature]</i>		r. Date 1/5/2023

TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Freehold Cartage Inc. 825 Hwy 33 East, Freehold NJ 07728		
b. Phone: (732) 462-1001		
c. Driver Name (Print) The Reener	d. Signature <i>[Signature]</i>	e. Date 1/5/23

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: X Conestoga Landfill 420 Quarry Rd., Morgantown PA 19543 (610) 286- 8644	c. US EPA Number PAD000015867	d. Discrepancy Indication Space: 554
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print) <i>[Signature]</i>	f. Signature <i>[Signature]</i>	g. Date 1/6/23

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
g. Operator's Name and Title (Print)	i. Date
h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both	

**2022 Conrail Right-of-Way Supplemental Pre-Design Investigation
Clean Fill Documentation**



Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

Certificate No: 004916

Expiration Date: 03/31/2023

MINE REGISTRATION CERTIFICATE

ISSUED TO: Stavola Construction Materials Inc

BLK NO(S): SEE BELOW

LOCATION: Stavola Construction Materials Inc
Chimney Rock Rd
Bridgewater, NJ

LOT NO(S): SEE BELOW

COUNTY: Somerset

FEE: \$3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

BLOCK NO(S)

LOT NO(S)

Chimney Rock Rd

711

6.01



**STAVOLA
CONSTRUCTION
MATERIALS, INC.**

P.O. Box 482
Red Bank, NJ 07701
732-542-2328 x 323
732-389-0074 F

rvannote@stavola.com

9/06/2022

To Whom it may concern,

We are currently crushing rock down to the following size products:

Screenings (#10)	3/8" Clean (#8)	3"- 5" Riprap
Common Fill	5/8" Clean (#67)	6"- 12" Core Stone
Finishing Stone	3/4" Clean (#57)	12"- 24" Army Core Stone
Washed Sand	1" Clean (#5)	I-5 Soil Aggregate
1/4" (#9)	1 1/2" Clean	D.G.A. (Dense Graded Aggregate)
I-9 Soil Aggregate	2 1/2" Clean	QP (Quarry Process)
I-14 Soil Aggregate	3" minus shale (redrock)	Ballast

Stavola Construction Materials, Inc. (S.C.M.I.) certifies all aggregate products are quarried and processed at our Bound Brook Quarry are from a virgin natural source of volcanic extrusive igneous basalt (also known as Traprock), natural to the region as well as a Red Shale product also natural to this region. The traprock and shale are not comingled together or with any other material, nor is it affected by conditions or processes that would result in the introduction of contaminants. There are no discharges of hazardous materials or chemical applications that would adversely affect the materials, it is quarried and stockpiled at our licensed Bound Brook quarry in Bridgewater, NJ.

The pockets of Shale (Red Rock Bound) found in the Brook Quarry, are also a virgin source, natural to the region, and free from contaminants.

The quarry is located in the First Watchung Mountain Range, 409 Chimney Rock Rd, Bridgewater Township, Block 711, Lot 6. The address is 409 Chimney Rock Rd, Bridgewater, NJ 08807. Mine Certificate: 004916

Bound Brook Quarry has operated as a rock quarry since 1944, with no contaminated sites/AOC on neighboring properties or within the quarry itself. The Bound Brook Quarry follows all NJDEP and USDEP protocols to address any minor discharges.

If you have any questions or require further information, please don't hesitate to contact me at 732-542-2328 x329 or rvannote@stavola.com

Sincerely,

Robert S VanNote
Stavola Construction Materials Incorporated

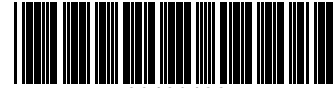


Gradation Test Report

Plant 02-Bound Brook Aggregate

Product 0020-DGA

Specification DGA



28423422

Sample Information

Sample No 28423422
Date Sampled 08/22/2022 12:43
Sampled By Peyton Young
Type Day Production
Method Load-Out Face

Split Sample ☐

Resample ☐

Gradation Results

Date Completed 08/22/2022 12:43

Tested By Peyton Young

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
lb		31.30	29.78		4.9			
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2" (50mm)	0.00	0.00	0.0	0.0	100.0			
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		≥100	
1" (25mm)	1.50	1.50	4.8	4.8	95.2			
3/4" (19mm)	3.00	4.50	9.6	14.4	85.6		55-90	
1/2" (12.5mm)	4.30	8.80	13.7	28.1	71.9			
3/8" (9.5mm)	3.60	12.40	11.5	39.6	60.4			
#4 (4.75mm)	5.80	18.20	18.5	58.1	41.9		25-50	
#8 (2.36mm)	4.40	22.60	14.1	72.2	27.8			
#16 (1.18mm)	3.08	25.68	9.8	82.1	17.9			
#30 (.6mm)	1.78	27.46	5.7	87.7	12.3			
#50 (.3mm)	0.97	28.43	3.1	90.8	9.2		5-20	
#100 (.15mm)	0.61	29.04	2.0	92.8	7.2			
#200 (75µm)	0.69	29.73	2.2	95.0	5.0		3-10	
Pan	0.05	29.78	5.0	100.0	0.0			



Gradation Test Report

Plant 02-Bound Brook Aggregate

Product 0010-2 " ASTM #3 Clean Stone

Specification 2 " Clean ASTM#3



76116607

Sample Information

Sample No 76116607

Split Sample ☐

Date Sampled 07/25/2022 09:39

Resample ☐

Sampled By Leonard Bozza

Type Shipping

Method Stockpile

Gradation Results

Date Completed 07/25/2022 09:39

Tested By Leonard Bozza

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure		
g		50.00						
Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2 1/2" (63mm)	0.00	0.00	0	0	100		100-100	
2" (50mm)	2.50	2.50	5	5	95		90-100	
1 1/2" (37.5mm)	27.60	30.10	55	60	40		35-70	
1" (25mm)	19.40	49.50	39	99	1		0-15	
3/4" (19mm)								
1/2" (12.5mm)	0.50	50.00	1	100	0		0-5	
Pan	0.10	50.10	0.0	100.0	0.0			

BBQ



Stavola Construction Materials
Bound Brook Quarry
(732) 542-2328

SHIPPING TICKET

DATE...: 09/09/22 TICKET...: 1071856
CLERK...: rfliegel IN 06:12 OUT 06:40

PROJECT : TASK #:

CUSTOMER.: 37334
MADDOX MATERIALS, LLC
P.O. NO.:
PRODUCT...: 0020
DENSE GRADED AGGREGATE
UNITS.....: 26.70 TON
HAULER...: P/D: P
Miscellaneous Trucker
CARD NO...: 033908
TRUCK.....: AX652W
M C S EXPRESS CORP
SHIP TO...:
Jersey City
VARIOUS ROADS

GROSS WEIGHT:	79500
STORED TARE:	26100
NET WEIGHT:	53400
NET TONS:	26.70
MEGAGRAMS:	24.2218

10718560020



TODAY'S LOADS: 1
TODAY'S QTY: 26.70

DRIVER.....

CUSTOMER:

WAIT TIME..

AUTH SIG:

38587
CLERK.....: Pete
TICKET#...: 1071856

LICENSE#...: 20672
REF TKT#:

Pete W. Williams

BBQ



Stavola Construction Materials
Bound Brook Quarry
(732) 542-2328

SHIPPING TICKET

DATE...: 09/09/22 TICKET...: 1071959
CLERK...: rfliegel IN 07:38 OUT 07:58

PROJECT : TASK #:

CUSTOMER.: 37334
MADDOX MATERIALS, LLC

P.O. NO...:

PRODUCT...: 0054

2IN BALLAST

UNITS.....: 25.16 TON

HAULER...: P/D: P

Miscellaneous Trucker

CARD NO...: 034506

TRUCK.....: AU130X

M C S EXPRESS CORP

SHIP TO...:

Jersey City

VARIOUS ROADS

GROSS WEIGHT:	77980
STORED TARE:	27660
NET WEIGHT:	50320
NET TONS:	25.16
MEGAGRAMS:	22.8248

TODAY'S LOADS: 1
TODAY'S QTY: 25.16

DRIVER.....:

CUSTOMER:

WAIT TIME.: AUTH SIG:

CLERK.....: Pete LICENSE#: 20672
TICKET#: 1071959 REF TKT#:

Pete W. De...

10719590054