

Appendix M

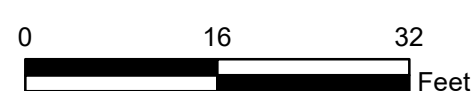
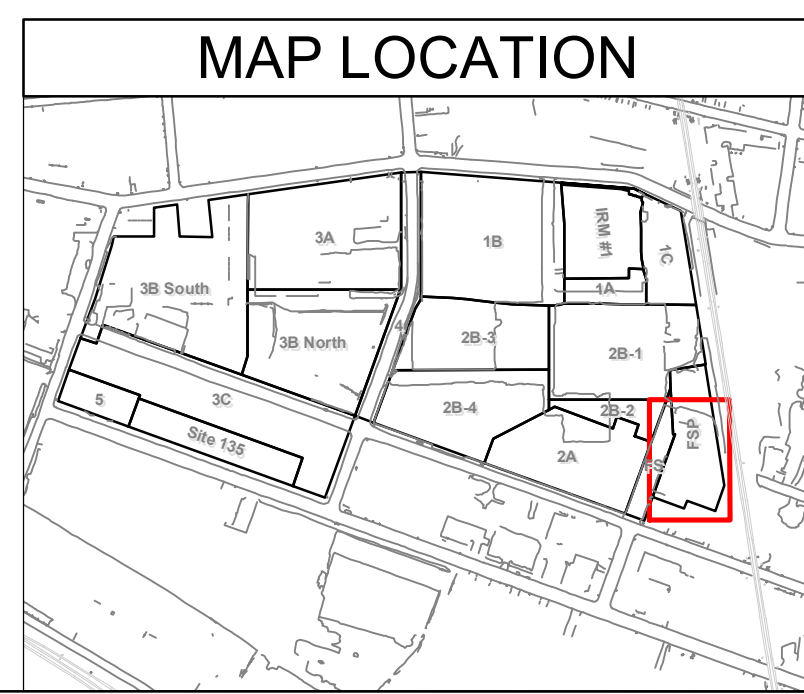
Forrest Future Residential-Use Conceptual Excavation Plan



ABBREVIATIONS:
NE – no excavation required in grid

GENERAL NOTES:
G1. Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).

SPECIFIC NOTES:
S1. Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.
S2. Figure depicts conceptual excavation plan to be conducted prior to the future residential use of Forrest Street Properties.
S3. The volume represented by this excavation is approximately 3,600 tons.



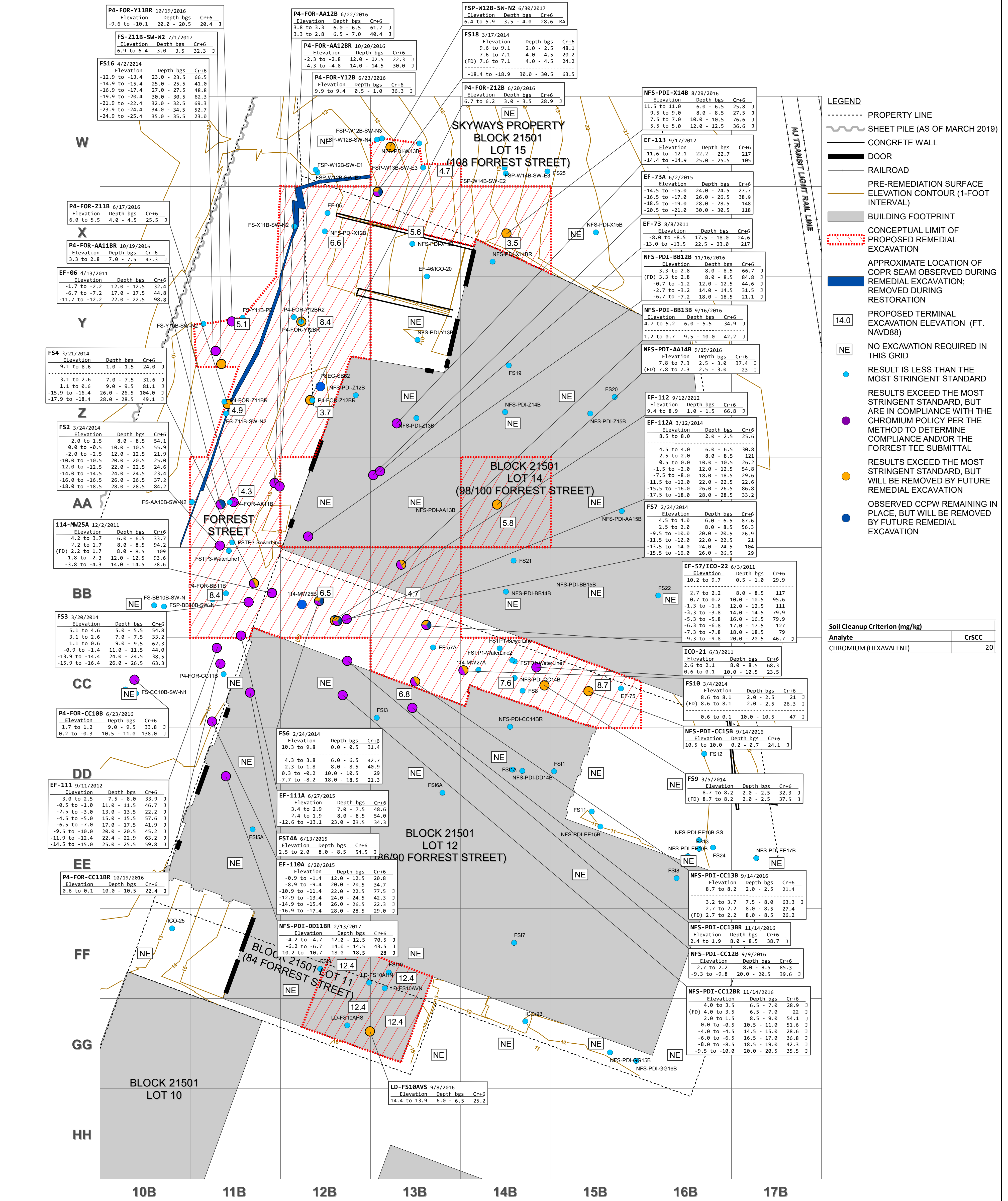
PPG
FORREST STREET AND FORREST STREET PROPERTIES
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

**FORREST FUTURE RESIDENTIAL-USE
CONCEPTUAL EXCAVATION PLAN (DEPTH)**

Date: 3/19/2019

Drawn by: ALC

FIGURE 1



LEGEND

- PROPERTY LINE
- ~ SHEET PILE (AS OF MARCH 2019)
- CONCRETE WALL
- DOOR
- RAILROAD
- PRE-REMEDIATION SURFACE ELEVATION CONTOUR (1-FOOT INTERVAL)
- BUILDING FOOTPRINT
- CONCEPTUAL LIMIT OF PROPOSED REMEDIAL EXCAVATION
- APPROXIMATE LOCATION OF COPR SEAM OBSERVED DURING REMEDIAL EXCAVATION; REMOVED DURING RESTORATION
- PROPOSED TERMINAL EXCAVATION ELEVATION (FT. NAVD88)
- NO EXCAVATION REQUIRED IN THIS GRID
- RESULT IS LESS THAN THE MOST STRINGENT STANDARD
- RESULTS EXCEED THE MOST STRINGENT STANDARD, BUT ARE IN COMPLIANCE WITH THE CHROMIUM POLICY PER THE METHOD TO DETERMINE COMPLIANCE AND/OR THE FORREST TEE SUBMITTAL
- RESULTS EXCEED THE MOST STRINGENT STANDARD, BUT WILL BE REMOVED BY FUTURE REMEDIAL EXCAVATION
- OBSERVED CCPW REMAINING IN PLACE, BUT WILL BE REMOVED BY FUTURE REMEDIAL EXCAVATION

Soil Cleanup Criterion (mg/kg)

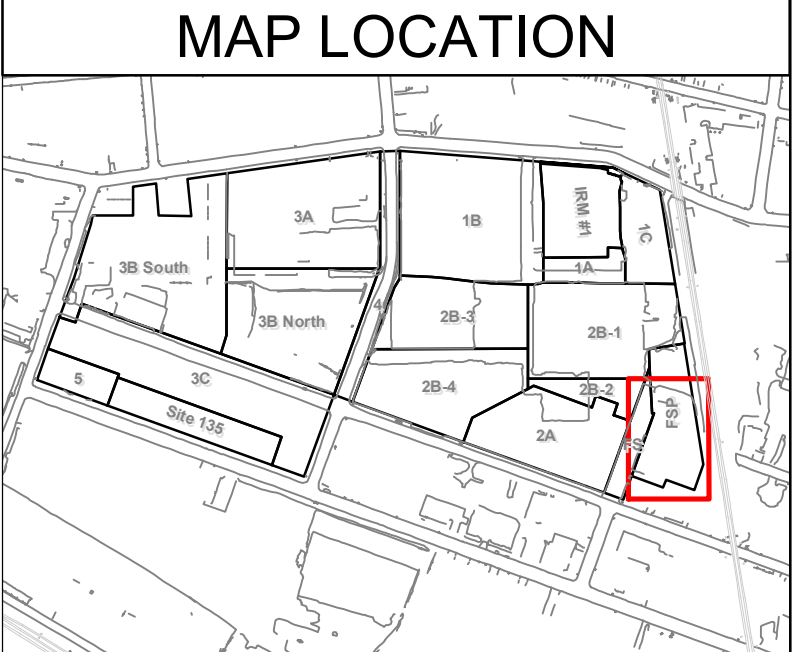
Analyte	CrSCC
CHROMIUM (HEXAVALENT)	20

ABBREVIATIONS:
 bgs – below ground surface
 CCPW – Chromate Chemical Production Waste
 Chromium Policy – Memorandum from NJDEP Commissioner Lisa P. Jackson to Irene Kropp, Subject: *Chromium Moratorium (Chromium Policy)*, dated February 8, 2007.
 CrSCC – Chromium Soil Cleanup Criterion
 FD – field duplicate
 Forrest TEE Submittal – March 2017 *Forrest Street and Forrest Street Properties – Proposed Terminal Excavation Elevations Submittal (Revision 1)* (AECOM), as accepted by NJDEP on May 25, 2017.
 ft – feet
 Method to Determine Compliance – Letter from Mr. Thomas Cozzi to W. Michael McCabe, Subject: Re: *Updated Method to Determine Compliance with the Department's Chromium Policy, Garfield Avenue – Sites 114, 132, 133, 135, 137, and 143, Jersey City, NJ, August 13, 2013.*
 mg/kg – milligrams per kilogram
 NAVD88 – North American Vertical Datum of 1988
 NE – no excavation required in this grid

QUALIFIERS:
 J – The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
 RA – The result was rejected due to deficiencies but it considered usable for decision making purposes.

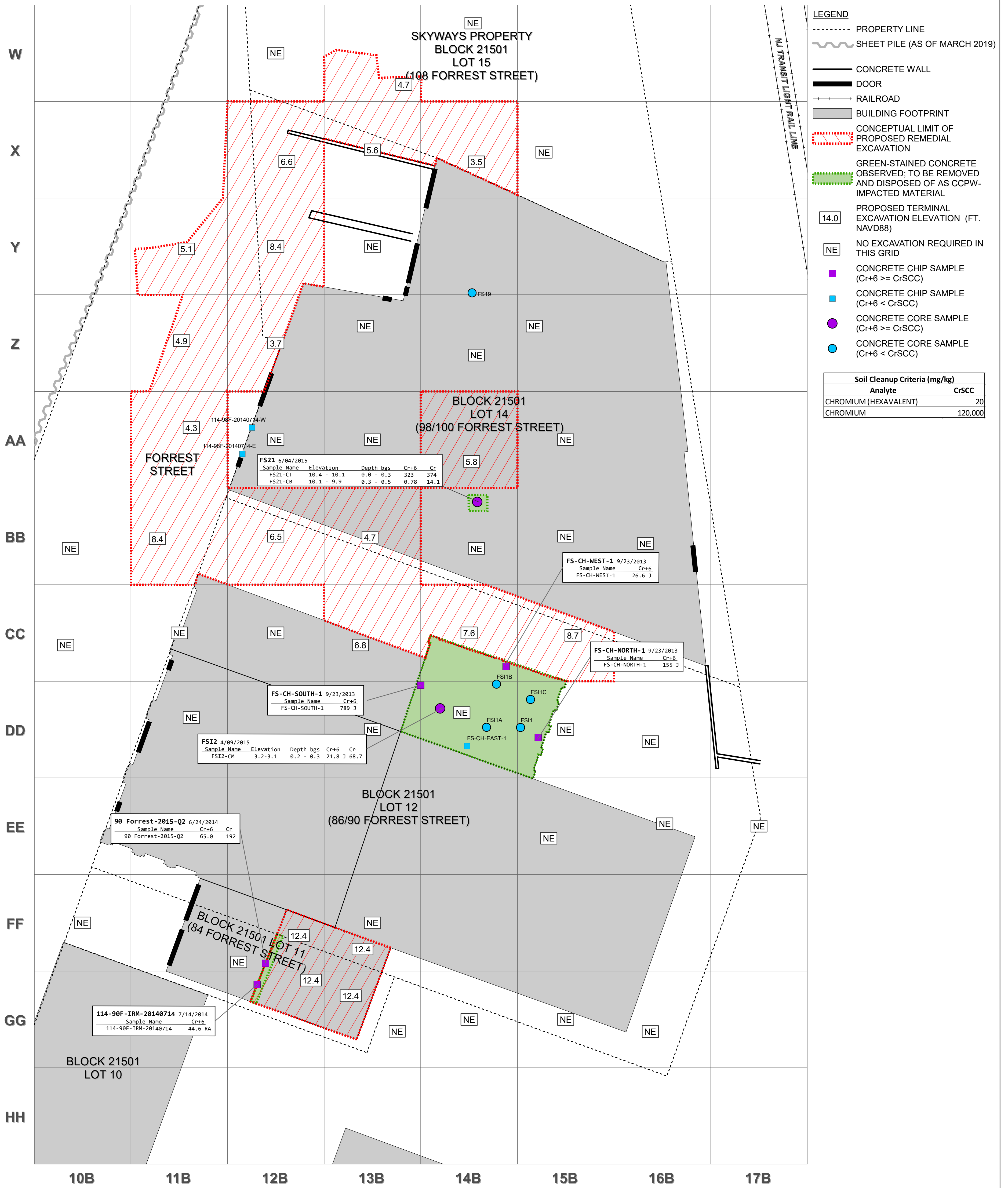
GENERAL NOTES:
 G1. The hexavalent chromium data associated with the sample locations shown on this figure are provided in Table 2-2. Data presented in call out boxes on this figure are outliers (i.e., data points that require further explanation). When a single location is represented with both an orange and purple symbol (i.e., FS4), the orange indicates "results exceed the most stringent standard, but will be removed by future remedial excavation," which applies to the shallower samples at that location (above the horizontal dashed line in the call out box). The purple indicates "results exceed the most stringent standard, but are in compliance with the Chromium Policy per the Method to Determine Compliance and/or the Forrest TEE Submittal," which applies to deeper samples at that location (below the horizontal dashed line in the call out box). Specific notes on how the NJDEP's remedial standards are being met and/or how remedial completion is being achieved/completed for each outlier sample are provided in the Specific Notes in Table 2-2.
 G2. "Elevation" refers to the sample elevation based on the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
 G3. Elevation vertical datum is NAVD88, in U.S. survey ft.
 G4. Results are reported in mg/kg.
 G5. Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).

SPECIFIC NOTES:
 S1. Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.
 S2. Figure depicts conceptual excavation plan to be conducted prior to the future residential use of Forrest Street Properties.
 S3. The volume represented by this excavation is approximately 3,600 tons.



PPG
 FORREST STREET AND FORREST STREET PROPERTIES
 GARFIELD AVENUE GROUP
 JERSEY CITY, NEW JERSEY

**FORREST FUTURE RESIDENTIAL-USE
 CONCEPTUAL EXCAVATION PLAN (ELEVATION)
 WITH HEXAVALENT CHROMIUM RESULTS IN SOIL
 COMPARED TO SOIL CLEANUP CRITERION**



ABBREVIATIONS:

bgs – below ground surface
 CCPW – Chromate Chemical Production Waste
 Cr – chromium
 Cr³⁺ – trivalent chromium
 Cr⁶⁺ – hexavalent chromium
 CrSCC – Chromium Soil Cleanup Criteria
 FD – field duplicate
 ft – feet
 mg/kg – milligrams per kilogram
 NAVD88 – North American Vertical Datum of 1988
 NJDEP – New Jersey Department of Environmental Protection
 NE – no excavation required in this grid
 SCC – Soil Cleanup Criteria
 SRS – Soil Remediation Standard

QUALIFIERS:

J – The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
 RA – The result was rejected due to deficiencies, but it considered usable for decision making purposes.

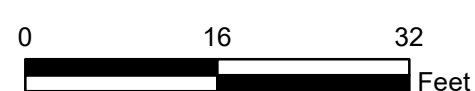
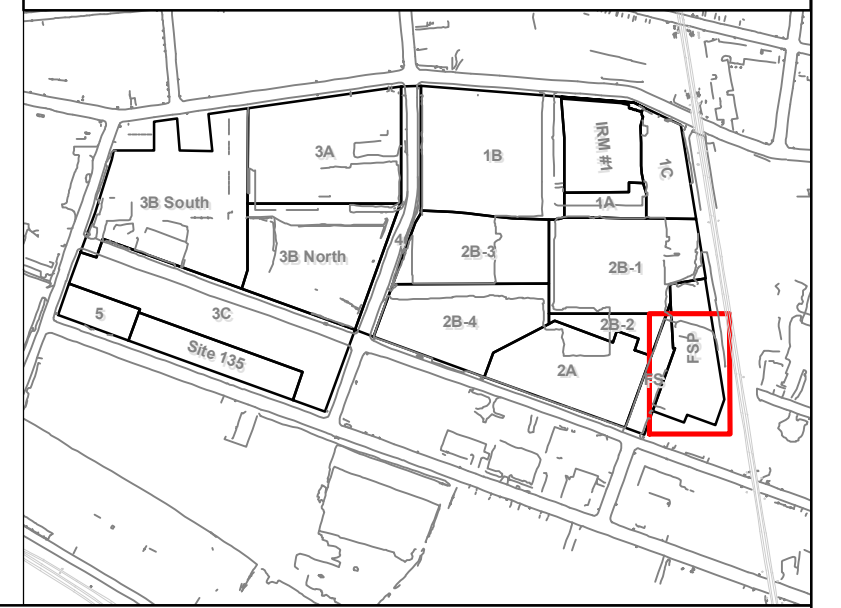
GENERAL NOTES:

- The hexavalent chromium data associated with the sample locations shown on this figure are provided in Table 2-3. Data presented in call out boxes on this figure are outliers (i.e., data points that require further explanation). Specific notes on how the NJDEP's remedial standards are being met and/or how remedial completion is being achieved/completed for each outlier sample are provided in the Specific Notes in Table 2-3.
- "Elevation" refers to the sample elevation based on the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
- Elevation vertical datum is NAVD88, in U.S. survey ft.
- Results are reported in mg/kg.
- Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).
- There are no Cr cleanup criteria or remediation standards for concrete, so results are being compared to the CrSCC.
- There is currently no NJDEP SRS and no NJDEP SCC for Cr. Therefore, total Cr results are compared to the NJDEP Residential SCC for Cr³⁺ of 120,000 mg/kg as the cleanup criteria for soil at the Garfield Avenue Group Sites. There is no non-residential SCC for Cr³⁺.

SPECIFIC NOTES:

- Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.
- Figure depicts conceptual excavation plan to be conducted prior to the future residential use of Forrest Street Properties.
- Green stained concrete will be disposed of following building demolition in accordance with local, state, and federal environmental regulations and New Jersey Department of Transportation (NJDOT) regulations.

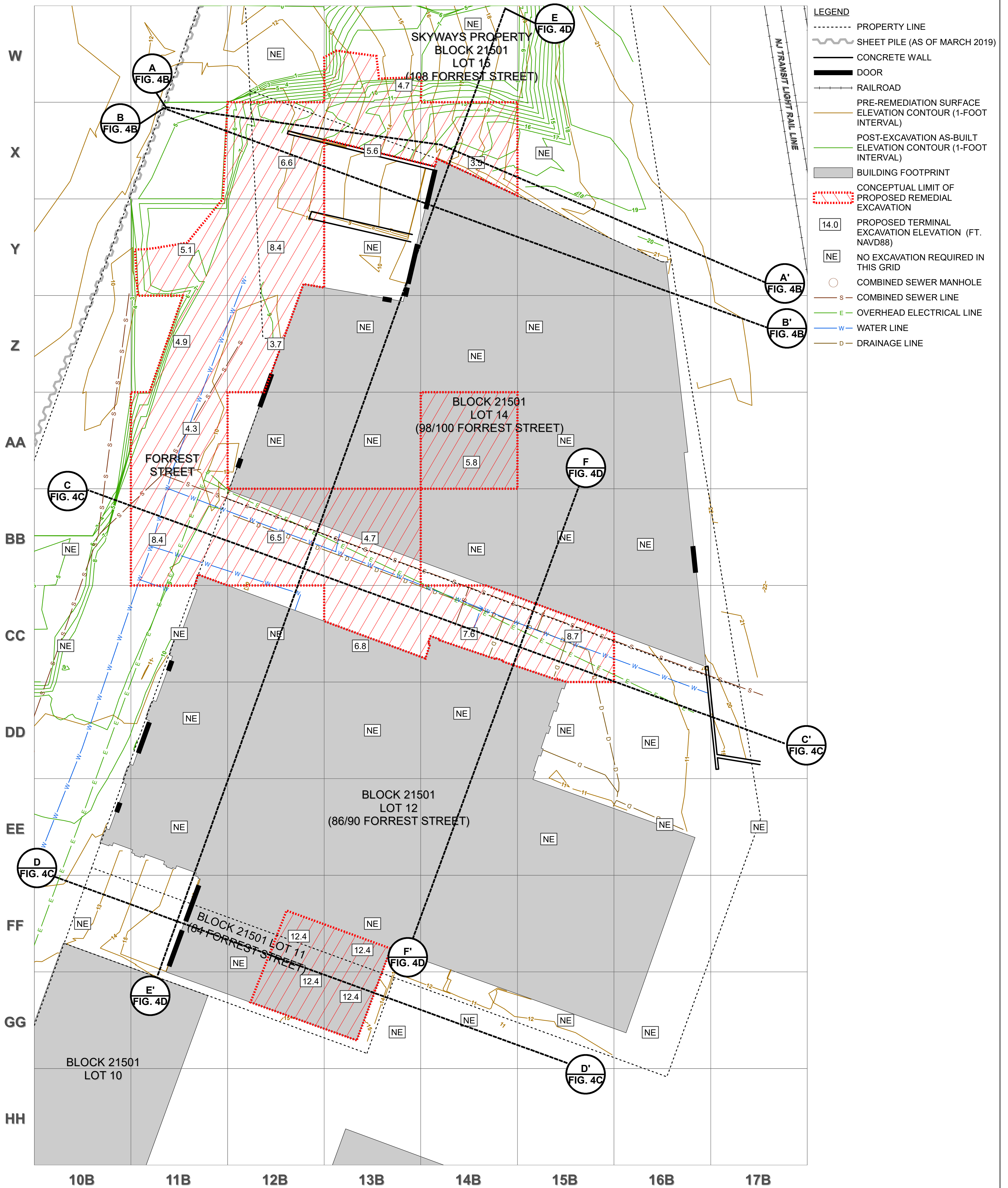
MAP LOCATION



PPG
 FORREST STREET AND FORREST STREET PROPERTIES
 GARFIELD AVENUE GROUP
 JERSEY CITY, NEW JERSEY

Date: 3/19/2019 Drawn by: ALC

**FORREST FUTURE RESIDENTIAL-USE
 CONCEPTUAL EXCAVATION PLAN (ELEVATION)
 WITH CHROMIUM RESULTS IN CONCRETE
 COMPARED TO SOIL CLEANUP CRITERIA**

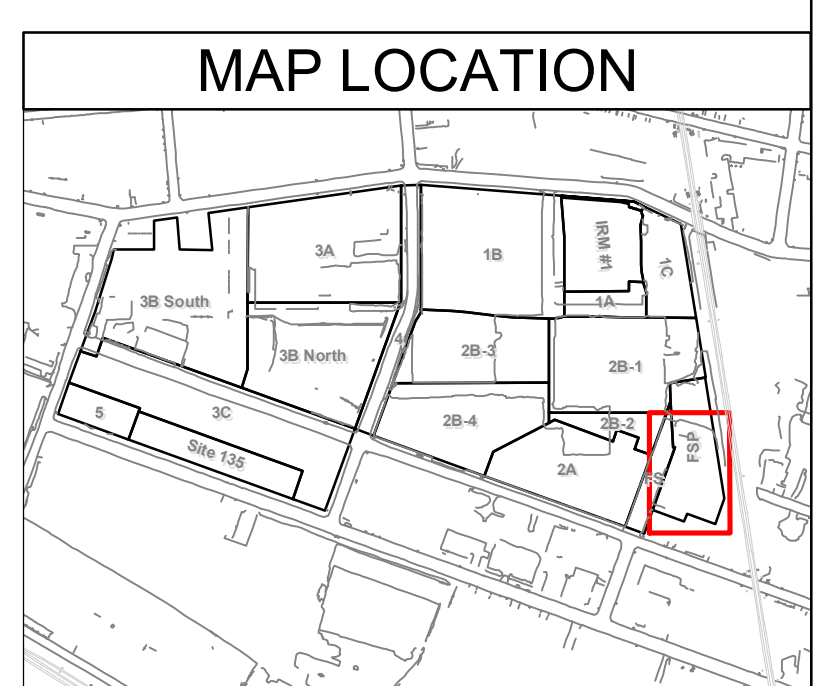


- LEGEND**
- PROPERTY LINE
 - SHEET PILE (AS OF MARCH 2019)
 - CONCRETE WALL
 - DOOR
 - RAILROAD
 - PRE-REMEDIATION SURFACE ELEVATION CONTOUR (1-FOOT INTERVAL)
 - POST-EXCAVATION AS-BUILT ELEVATION CONTOUR (1-FOOT INTERVAL)
 - BUILDING FOOTPRINT
 - ▨ CONCEPTUAL LIMIT OF PROPOSED REMEDIAL EXCAVATION
 - 14.0 PROPOSED TERMINAL EXCAVATION ELEVATION (FT. NAVD88)
 - NE NO EXCAVATION REQUIRED IN THIS GRID
 - COMBINED SEWER MANHOLE
 - S COMBINED SEWER LINE
 - E OVERHEAD ELECTRICAL LINE
 - W WATER LINE
 - D DRAINAGE LINE

ABBREVIATIONS:
 ft – feet
 NAVD88 – North American Vertical Datum of 1988
 NE – no excavation required in this grid

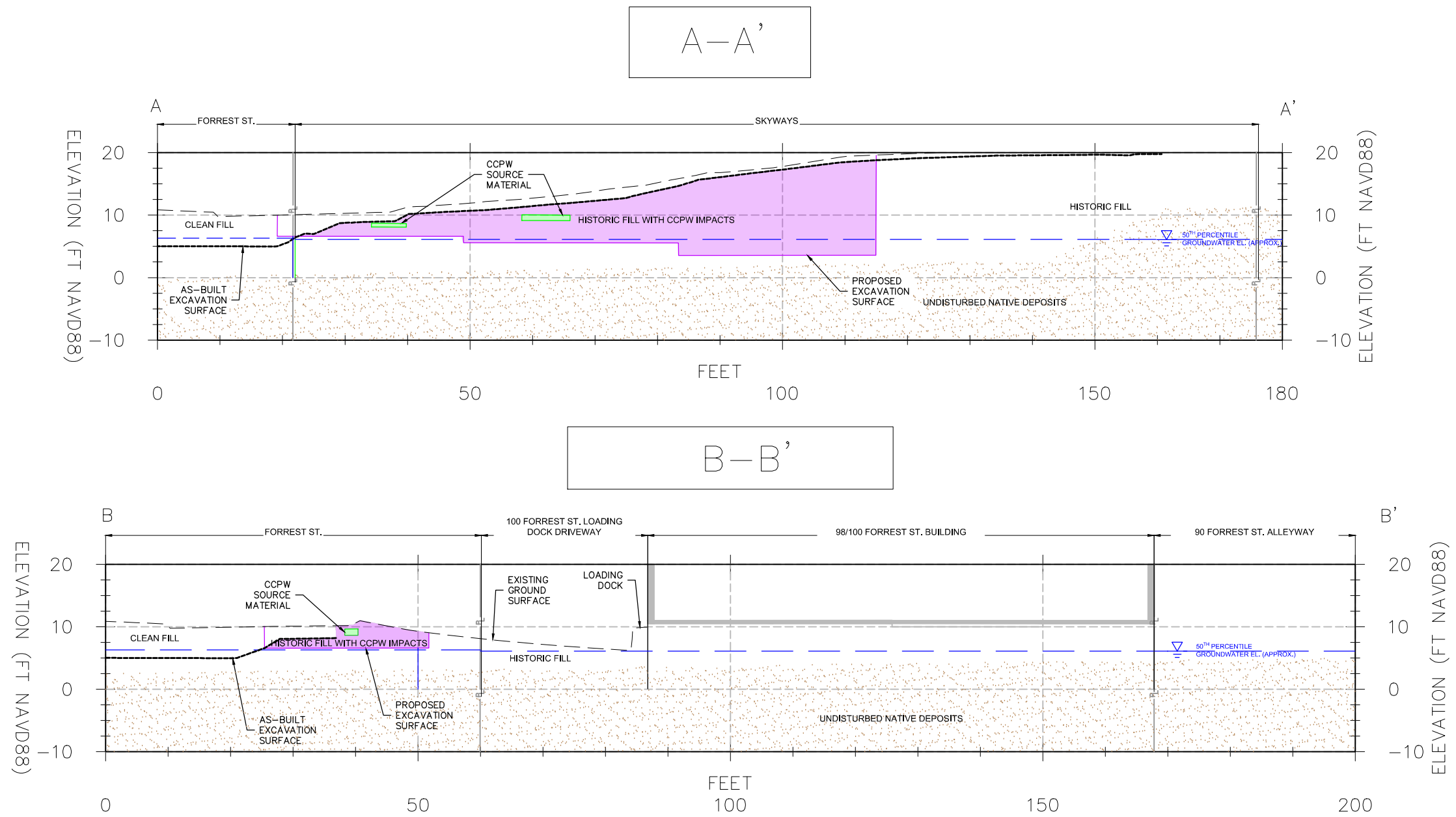
GENERAL NOTES:
 G2. "Elevation" refers to the sample elevation based on the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
 G3. Elevation vertical datum is NAVD88, in U.S. survey ft.
 G5. Source of block/lot information is Jersey City Parcel Data from New Jersey Geographic Information Network (NJGIN), last updated 10/6/2015 (available at: <http://data.jerseycitynj.gov/dataset/jersey-city-parcel-polygon>).

SPECIFIC NOTES:
 S1. Property lines and pre-construction topographical contours are sourced from the "Boundary and Topographic Survey, PPG Industries Site 114, Lots 11, 12, 14 and 15, Block 21501, City of Jersey City, Hudson County, New Jersey" prepared by Borbas Surveying and Mapping, LLC, dated January 8, 2019.
 S2. Conceptual post-excavation elevation contours were generated using professional judgement based on post-excavation survey points and knowledge of excavation practices utilized during the remedial excavation (i.e., excavation conducted on a 30-foot by 30-foot basis). Post excavation survey points were sourced from the "Post Excavation Elevation Plan for ENTACT, LLC; PPG Site 133 & 135 Skyways," prepared by Maser Consulting P.A., dated June 30, 2017.
 S3. Figure depicts conceptual excavation plan to be conducted prior to the future residential use of Forrest Street Properties.
 S4. The volume represented by this excavation is approximately 3,600 tons.
 S5. Excavation profiles A through F identified on this figure are presented on Figures 4B, 4C, and 4D.



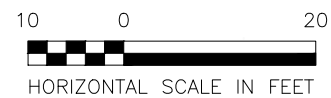
PPG
 FORREST STREET AND FORREST STREET PROPERTIES
 GARFIELD AVENUE GROUP
 JERSEY CITY, NEW JERSEY

**FORREST FUTURE RESIDENTIAL-USE
 CONCEPTUAL EXCAVATION PLAN
 SITE PLAN FOR PROFILE VIEWS**



LEGEND

- | | | | | |
|--|---|--|-----------|---|
| | PROPERTY LINE | | CCPW | CHROMATE CHEMICAL PRODUCTION WASTE |
| | EXISTING GROUND SURFACE | | FT NAVD88 | FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 |
| | AS-BUILT EXCAVATION SURFACE | | ST. | STREET |
| | PROPOSED EXCAVATION SURFACE | | | |
| | LIMIT OF CCPW SOURCE MATERIAL | | | |
| | 50 TH PERCENTILE GROUNDWATER ELEVATION (APPROXIMATE) | | | |
| | EXISTING CONCRETE SLAB | | | |

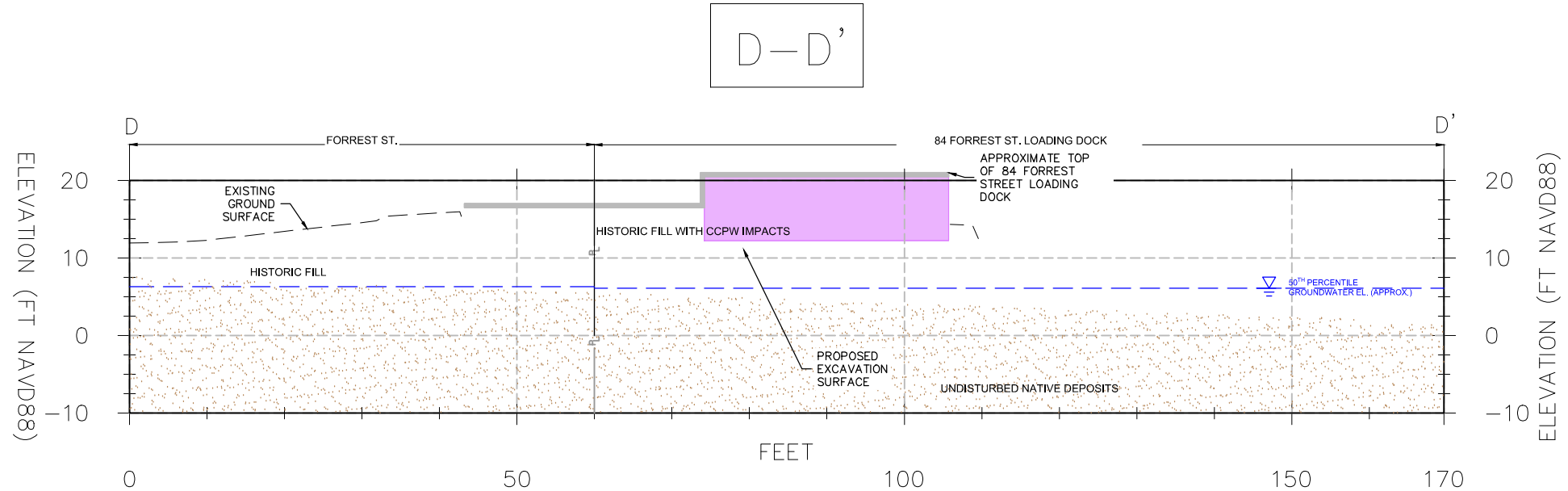
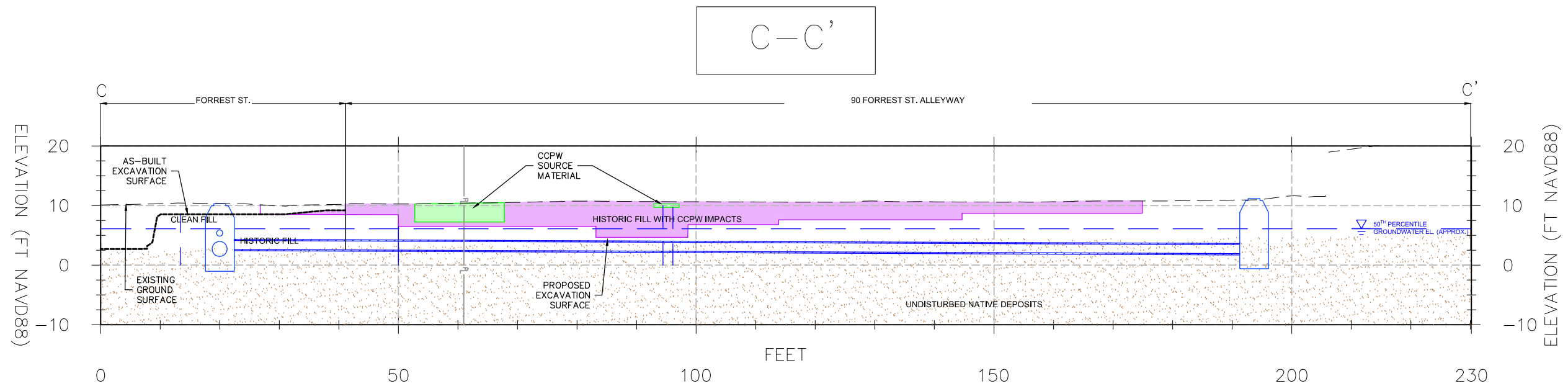


PPG
 FORREST STREET AND
 FORREST STREET PROPERTIES
 JERSEY CITY, NEW JERSEY
 DATE: 03/22/2019 DRWN: ASK

FORREST FUTURE RESIDENTIAL-USE
 CONCEPTUAL EXCAVATION PLAN
 A-A' AND B-B' PROFILES

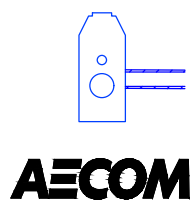
FIGURE 4B

File: P:\Jobs\Rem_Eng\Project Files\PPG Industries\Garfield Avenue\30% Design\CADD\DWGS\FOR-FSN\Cross Sections\2019-03-21 Cross Sections.dwg Layout: Figure 4C User: ambarns Plotted: Mar 22, 2019 - 12:51



LEGEND

- PROPERTY LINE
- EXISTING GROUND SURFACE
- AS-BUILT EXCAVATION SURFACE
- PROPOSED EXCAVATION SURFACE
- LIMIT OF CCPW SOURCE MATERIAL
- 50TH PERCENTILE GROUNDWATER ELEVATION (APPROXIMATE)
- EXISTING CONCRETE SLAB
- COMBINED SEWER
- CCPW CHROMATE CHEMICAL PRODUCTION WASTE
- FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988
- ST. STREET



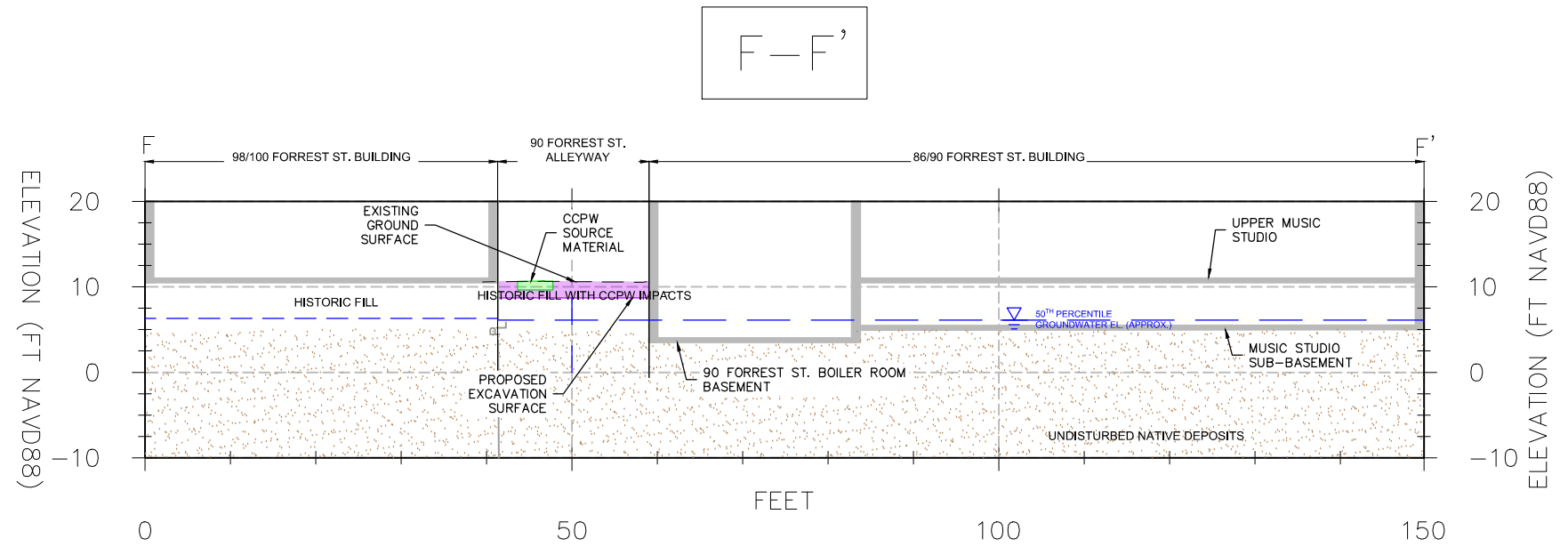
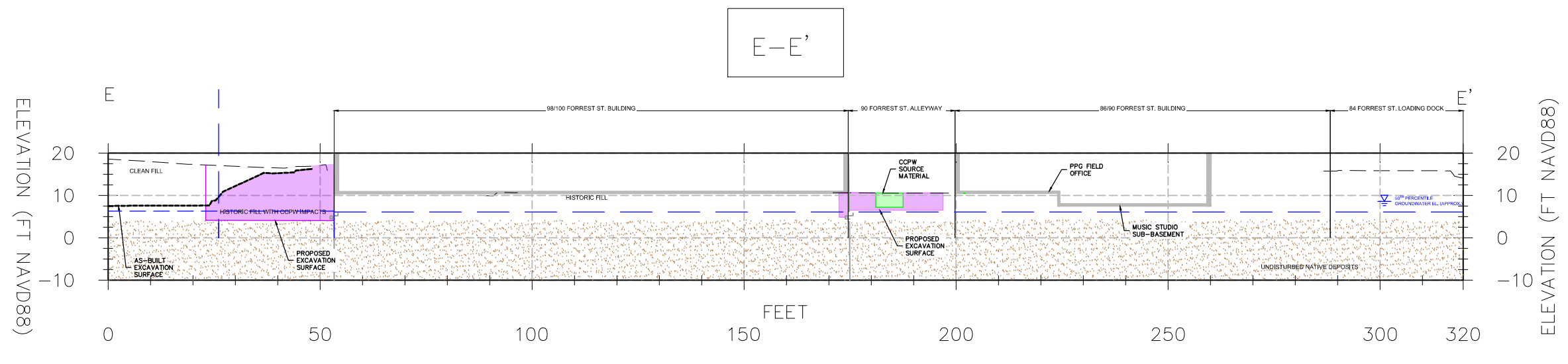
PPG
FORREST STREET AND
FORREST STREET PROPERTIES
JERSEY CITY, NEW JERSEY

DATE: 03/22/2019 DRWN: ASK

**FORREST FUTURE RESIDENTIAL-USE
CONCEPTUAL EXCAVATION PLAN
C-C' AND D-D' PROFILES**

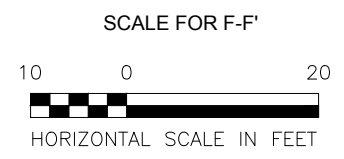
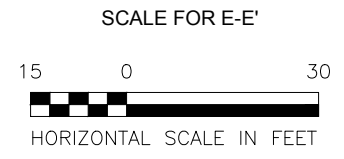
FIGURE 4C

File: P:\Jobs\Rem_Eng\Project Files\PPG Industries\Garfield Avenue\30% Design\CADD\DWGS\FOR-FSM\Cross Sections\2019-03-21 Cross Sections.dwg Layout: Figure 4D User: ambarans Plotted: Mar 21, 2019 - 4:02pm



LEGEND

- PROPERTY LINE
 - EXISTING GROUND SURFACE
 - AS-BUILT EXCAVATION SURFACE
 - PROPOSED EXCAVATION SURFACE
 - LIMIT OF CCPW SOURCE MATERIAL
 - 50TH PERCENTILE GROUNDWATER ELEVATION (APPROXIMATE)
 - EXISTING CONCRETE SLAB
-
- CCPW CHROMATE CHEMICAL PRODUCTION WASTE
 - FT NAVD88 FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988
 - ST. STREET



<p>PPG FORREST STREET AND FORREST STREET PROPERTIES JERSEY CITY, NEW JERSEY</p>		<p>FORREST FUTURE RESIDENTIAL-USE CONCEPTUAL EXCAVATION PLAN E-E' AND F-F' PROFILES</p>
DATE: 03/21/2019	DRWN: ASK	FIGURE 4D