

Via Email

April 16, 2020

NC DOT Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Attention: Mr. Gordon Box

Re: Phase II Investigation Report
Davidson Asbestos Site
NC DOT State Project No. U-5907
WBS Element #46452.1.1
Davidson, Mecklenburg County, North Carolina
H&H Job No. ROW-603

Dear Gordon:

Please find the attached electronic copy of the Phase II Investigation report for the Davidson Asbestos Site located in Davidson, Mecklenburg County, North Carolina. Please return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

Hart & Hickman, PC



David Graham, PG
Senior Project Geologist



Matt Bramblett, PE
Principal

Attachment

Phase II Investigation Davidson Asbestos Site

Davidson, Mecklenburg County
North Carolina

H&H Job No. ROW-605
State Project U-5907
WBS Element #46452.1.1
April 16, 2020



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**Phase II Investigation
Davidson Asbestos Site
Davidson, Mecklenburg County, North Carolina
H&H Project ROW-605**

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**Phase II Investigation
Davidson Asbestos Site
Davidson, Mecklenburg County, North Carolina
H&H Project ROW-605**

1.0 Introduction and Background

Hart & Hickman, PC (H&H) has prepared this Phase II Investigation (Phase II) report documenting assessment activities performed on multiple parcels located in Davidson, Mecklenburg County, North Carolina. The Phase II activities were conducted on multiple parcels located along Potts Street, Sloan Street, Griffith Street, and Beaty Street. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's August 30, 2019 work plan and cost estimate.

The purpose of this assessment was to collect data to evaluate the potential for asbestos in soil due to historical activities in the vicinity of proposed road and sidewalk improvement areas along Potts Street, Sloan Street, Griffith Street, and Beaty Street (State Project U-5907). The NC DOT project includes proposed road and sidewalk improvements, installation of stormwater drainage ditches and stormwater drainage piping and catch basins. The road improvements include a new road to extend Potts Street to Sloan Street plus a roundabout at the intersection of Sloan Street, Griffith Street, and Beaty Street. A project location map is included as Figure 1, and an aerial project map is presented as Figure 2. NC DOT's plan sheets depicting the proposed work areas along Potts Street, Sloan Street, Griffith Street, and Beaty Street are included in Appendix A.

Based on information provided by NC DOT and review of available North Carolina Department of Environmental Quality (NC DEQ) incident files, the Davidson Asbestos site is located near proposed NC DOT work areas. According to Tetra Tech's *Final Davidson Asbestos Removal Action Report* dated January 3, 2018, the Davidson Asbestos site consists of 32 parcels and a former asbestos mill located at 219 Depot Street in Davidson. The former asbestos mill (Carolina Asbestos Company) manufactured asbestos containing products from the 1930s to the 1960s. Asbestos-containing material (ACM)/waste was reportedly disposed on the mill property and throughout the nearby neighborhood. The western boundary of the former asbestos mill

property borders Sloan Street, and the mill property was on the opposite side of the street from the NC DOT sidewalk project.

Previous assessments by others have been conducted to determine the potential for asbestos impacts at the former asbestos mill site and in the community surrounding the former mill. Analytical results of soil samples associated with a Brownfields assessment at the former asbestos mill site indicated the presence of chrysotile asbestos at 1 percent or greater. The ACM-impacted soil ranged from a depth of 1 ft to 10 ft below ground surface (bgs) at the site. In 2016, the US Environmental Protection Agency (EPA) assessed the neighborhoods adjacent to the former mill site. Over 300 soil samples were collected on 93 parcels. Analytical results for 39 of those parcels indicated asbestos at “Trace” amounts in 50 of the samples and at 0.25 percent to 1.0 percent in 18 of the samples. EPA determined the samples with trace asbestos results did not pose a risk to warrant removal.

In 2017, ACM and asbestos impacted soils were removed at a depth up to 1 ft bgs (or until ACM was no longer visible up to a maximum depth of 3 ft) on 32 parcels near the former mill site. Post excavation composite soil samples were collected from each parcel to document potential asbestos impacts at the base of the excavation areas. Asbestos impacted soil was detected in several of the post excavation composite soil samples. Prior to backfilling the excavation areas, orange snow fencing was placed at the base of the excavations to demark the extent the EPA removal activities and the potential for asbestos impacts. Potential ACM and impacted soil was not removed beneath hardscape areas such as driveways, sidewalks, roads, etc. Removed ACM and asbestos-impacted soil were properly disposed in a permitted landfill.

As part of the asbestos removal activities, ACM and/or asbestos impacted soils were removed from 347 Griffith Street, 325 Sloan Street, 241 Eden Street, 235 Eden Street, 233 Eden Street, 229 Eden Street, 107 Potts Street, and 110 Potts Street. These properties are located within or near proposed NC DOT work areas. A brief description of removal activities for each of these properties is described below.

347 Griffith Street - ACM and soil were excavated to a depth of one ft bgs at 347 Griffith Street near the intersection of Sloan Street (NC DOT Parcels 33 and 35) within proposed NC DOT work areas. No asbestos was detected in a post excavation composite sample collected from the excavation area. Orange snow fencing was placed at the base of the excavation to demark the extent of excavation activities.

325 Sloan Street - ACM and soil were excavated to a depth of one ft bgs at 325 Sloan Street just south of proposed NC DOT work areas. No asbestos was detected in a post excavation composite sample collected from the excavation area. Orange snow fencing was placed at the base of the excavation to demark the extent of excavation activities.

229, 233, 235, and 241 Eden Street - ACM and soil were excavated up to depths of three ft bgs at 229, 233, 235, and 241 Eden Street (located on NC DOT Parcels 23, 24, 25, and 29) and within proposed NC DOT work areas. Visible ACM was not removed near the driveway, street and beyond the property line on 241 Eden Street (NC DOT Parcel 29). In addition, ACM was not removed beneath the foundation of the shed on the southern portion of 241 and 235 Eden Street which is located near proposed NC DOT work areas. Trace chrysotile asbestos (<1%) was detected in the post excavation composite samples collected at 241 and 233 Eden Street and 0.75 % chrysotile asbestos was detected in the post excavation composite sample collected from 229 Eden Street. No asbestos was detected in the post excavation composite sample collected from 235 Eden Street. Orange snow fencing was placed at the base of the excavation areas to demark the extent of excavation activities on each of these properties.

107 Potts Street - ACM and soil were excavated up to a depth of two ft bgs at 107 Potts Street (NC DOT Parcel 21) and within proposed NC DOT work areas. Visible ACM was not removed beneath Potts Street and near a water line running to 110 Potts Street (NC DOT Parcel 20). Trace chrysotile asbestos (<1%) was detected in the post excavation composite sample collected at 107 Potts Street. Orange snow fencing was placed at the base of the excavation to demark the extent of excavation activities.

110 Potts Street - ACM and soil were excavated up to a depth of one ft bgs at 110 Potts Street (NC DOT Parcel 20) and within proposed NC DOT work areas. No asbestos was detected in the post excavation composite sample collected from 110 Potts Street. Orange snow fencing was placed at the base of the excavation area to demark the extent of excavation activities. Pertinent information and details for removal actions for the above-mentioned properties from Tetra Tech's *Final Davidson Asbestos Removal Action Report* are included in Appendix B.

At NC DOT's request, H&H conducted Phase II sampling activities to determine the potential for ACM and asbestos impacted soil in proposed NC DOT work areas along Potts Street, Sloan Street, Griffith Street, and Beaty Street in the vicinity of the former mill site. Because the Phase II sampling activities were conducted on multiple parcels, NC DOT provided public outreach notification prior to our sampling activities. The public outreach notification is included in Appendix C.

On October 17, 2019, NC DOT provided H&H's asbestos assessment work plan to Mr. Jeffery Dellinger Industrial Hygiene Consultant Supervisor with the North Carolina Department of Health and Human Services (NCDHHS). Mr. Dellinger provided comments regarding the assessment work plan, investigative derived waste disposal, reporting, etc. in a letter to H&H dated November 4, 2019. Prior to implementing the work plan, H&H addressed these comments in a letter to Mr. Dellinger dated November 18, 2019. Copies of the NCDHHS and H&H letters are included in Appendix C. The Phase II investigation activities are described below.

2.0 Soil Assessment

2.1 Soil Sampling

H&H mobilized to the site on December 2 through December 6, 2019 to advance soil borings in proposed NC DOT work areas. Prior to conducting soil borings, underground utilities were marked by the NC 811 public utility locator and by Probe Utility Locating, LLC for private underground utilities. H&H contracted with South Atlantic Environmental Drilling and Construction Co., Inc. (SAEDACCO) of Fort Mill, South Carolina to assist with soil boring installation activities using a

concrete coring machine. The concrete coring machine was used for soil borings that were advanced in sidewalks or other hardscape areas. Water was used during coring of asphalt or concrete to prevent fugitive dust emissions.

H&H trained/licensed asbestos inspectors conducted the soil sampling activities. H&H field sampling personnel donned Level C personal protection equipment (PPE) including Tyvek coveralls and half-faced respirators during sampling activities. Prior to sampling, an exclusion zone (using caution tape, cones, etc.) was set up at each soil boring location to prevent the public from entering the sampling area. Soil borings were advanced by H&H personnel using a dutch hand auger for shallow soil borings and a conventional hand auger for deeper boring locations. The hand augers were decontaminated using analconox and water rinse solution between each boring. During the sampling, utilization of wet methods (primarily amended with soap) were used as needed to mitigate potential asbestos fiber release. Plastic sheeting was used around the sample areas to collect soil and potential asbestos fibers.

H&H advanced 105 soil borings in proposed sidewalk and road construction areas including 23 soil borings (PTS-1 through PTS-23) along Potts Street, 16 soil borings (EXT-1 through EXT-16) in the proposed road extension between Potts Street and Sloan Street, 23 soil borings (SLN-1 through SLN-23) along Sloan Street, 33 soil borings (GRF-1 through GRF-33) along Griffith Street, and 10 soil borings (BTY-1 through BTY-10) along Beaty Street. In general, the soil borings were advanced on approximate 50 ft intervals in proposed NC DOT work areas. Due to the separation distance between Potts Street and the former mill, borings located along Potts Street were advanced at approximate 100 ft intervals.

The soil borings were advanced to depths of up to 8 ft bgs depending on the proposed cut depth in the area. Soil samples were collected continuously and visually observed for potential asbestos impacts. Potential ACM (floor tile) was identified in two soil borings: EXT-13 (0 - 3 ft) and EXT-14 (0 - 4 ft). There were no visual indications of ACM in the other soil boings advanced during sampling activities. Samples were generally collected from each soil boring as follows. For shallow soil borings (< 3 ft), soil samples were collected from each one ft interval for laboratory analysis. For deeper borings (3 ft or deeper), a shallow, middle, and deep sample were collected from each

boring location for laboratory analysis. For soil borings advanced near proposed drainage ditch areas, soil samples were collected as described above plus two additional samples were collected, one in the 2 ft interval beneath the proposed cut depth for the ditch (to determine if soil was impacted at the upper portion of the future ditch grade) and one sample in the 6-inch interval beneath the 2 ft interval noted above (to determine if this interval was impacted for later demarcation during construction activities). If soil samples above the bottom 6-inch interval were not impacted by asbestos, the bottom 6-inch interval was not analyzed by the laboratory. GPS coordinate data for the soil borings are summarized in Table 1, and sample depths are summarized in Table 2. Soil boring locations are shown on Figure 2 and Figures 3A through 3J. Soil boring logs are included in Appendix D.

H&H submitted a total of 206 soil samples from 105 soil borings advanced along Potts Street, the road extension between Potts Street and Sloan Street, Sloan Street, Griffith Street, and Beaty Street for laboratory analysis. Suspect bulk ACM (floor tile) observed in soil borings EXT-13 and EXT-14 was also collected for laboratory analysis. The soil samples and bulk ACM were collected using nitrile glove-covered hands and were placed into zip lock baggies and shipped under chain of custody protocol for laboratory analysis. The soil samples were submitted to EMSL Analytical, Inc. (EMSL) for asbestos analysis via EPA Method 600/R-93/116 using Polarized Light Microscopy (PLM) and Milling Preparation Quantitation with 400 Point Count Procedure (reporting limit <0.25%). Because the PLM method may not identify asbestos fibers that are extremely small, soil samples with non-detect values using PLM analysis were analyzed again with a qualitative asbestos analysis using Transmission Electron Microscopy (TEM) Qualitative via Filtration Prep Technique to confirm the presence or absence of asbestos. The suspect bulk ACM was analyzed by EPA Method 600/R-93/116 using PLM only. Soil sample analytical results are summarized in Table 2, and bulk ACM analytical results are summarized in Table 3. Laboratory analytical data sheets and chain-of-custody documentation are provided in Appendix E. The analytical results are discussed below.

Upon completion of soil sampling at each boring location, the sample area was promptly cleaned using a high efficiency particulate air (HEPA) filtered vacuum. Investigative derived waste including soil, water, plastic/PPE and used vacuum filters were drummed for disposal. Soil borings

were backfilled with a clayey silt fill material, and the surface was patched to match the existing ground surface.

2.2 Soil Analytical Results

Laboratory analytical results indicate that asbestos was present in 40 out of 105 soil borings conducted for this assessment (Figure 2). Chrysotile asbestos was present in five soil borings advanced along the northern portion of Potts Street, fourteen soil borings advanced along the proposed road extension between Potts Street and Sloan Street, eleven soil borings advanced along Sloan Street, nine soil borings advanced along Griffith Street, and one soil boring advanced near Beaty Street. The chrysotile type of asbestos is consistent with the type of asbestos detected at the former asbestos mill.

Chrysotile asbestos was detected at various depths in soil borings PTS-17, PTS-19, PTS-20, PTS-21, and PTS-22 advanced along Potts Street. The highest asbestos detection along Potts Street was 0.75% in sample PTS-20 (1 - 2 ft). Chrysotile asbestos was detected at various depths in borings EXT-1 through EXT-4, EXT-6 through EXT-14, and EXT-16 collected along the road extension between Potts Street and Sloan Street. The highest asbestos detection along the road extension was 0.50% in sample EXT-9 (6 - 6.5 ft). Chrysotile asbestos was detected at various depths in borings SLN-1, SLN-5, SLN-9, SLN-10, SLN-13 through SLN-17, SLN-20, and SLN-21 along Sloan Street. The highest asbestos detection along Sloan Street was 1.25% in sample SLN-5 (1 - 2 ft). Chrysotile asbestos was detected at various depths in borings GRF-1 through GRF-3, GRF-24 and GRF-28 through GRF-32 along Griffith Street. The highest asbestos detection along Griffith street was 2.25% in sample GRF-2 (0 - 1 ft). Chrysotile asbestos (<0.25 %) was detected in boring BTY-1 (5 - 6 ft) along Beaty Street. Chrysotile asbestos (5 %) was detected in the bulk ACM (floor tile) samples collected from soil borings EXT-13 (0 - 3 ft) and EXT-14 (0 - 4 ft).

Based on the Phase II investigation analytical results and previous EPA investigation and asbestos removal activities, widespread asbestos impacted soils are located along the northern portion of Potts Street, the road extension area between Potts Street and Sloan Street and various locations along Sloan Street, Griffith Street, and Beaty Street within proposed NC DOT work areas.

- H&H estimates that there are roughly 7,000 cubic yards (10,500 tons) of asbestos impacted soil at various depths between the surface and 8 ft bgs along the northern portion of Potts Street and the proposed road extension between Potts Street and Sloan Street. Asbestos impacted soil was identified in the upper portion of the proposed ditch grade near borings EXT-2, EXT-4 EXT-9, EXT-10, and EXT-12. As mentioned above, visible ACM was not removed beneath Potts Street and near a water line running to 110 Potts Street (NC DOT Parcel 20) from 107 Potts Street (NC DOT Parcel 21) and on portions of 241 and 235 Eden Street (NC DOT Parcel 29) during EPA asbestos impacted soil removal activities in 2017.
- There are roughly 150 cubic yards (225 tons) of asbestos impacted soil between the surface and 1 ft bgs along Sloan Street near borings SLN-9 and SLN-10, roughly 300 cubic yards (450 tons) of asbestos impacted soil between the surface and 1 ft bgs along Sloan Street near borings SLN-13 through and SLN-17, and roughly 300 cubic yards (450 tons) of asbestos impacted soil between the surface and 2 ft bgs along Sloan Street near borings SLN-20 and SLN-21.
- There are roughly 400 cubic yards (600 tons) of asbestos impacted soil between the surface and 1 ft bgs along Griffith Street near borings GRF-1 through GRF-3, roughly 750 cubic yards (1,100 tons) of asbestos impacted soil between the surface and 4 ft bgs along Griffith Street near boring GRF-24, and roughly 800 cubic yards (1,200 tons) of asbestos impacted soil between the surface and 1 ft bgs along Griffith Street near borings GRF-28 through GRF-32.
- There are roughly 350 cubic yards (530 tons) of asbestos impacted soil between 4 ft and 6 ft bgs along Beaty Street near boring BTY-1.

The amount of impacted soil that will be disturbed as part of NC DOT construction activities has not been calculated. The estimated depths of asbestos impacted soils are based on laboratory results. Impacts may extend beyond the depths indicated above. In addition, the asbestos impacted soils appear to extend outside of proposed NC DOT work areas. The approximate areas of asbestos impacted soil are shown on Figures 3A through 3J.

NC DOT plans indicate proposed cut areas for sidewalk improvements, drainage ditches and piping installations, and road construction activities along portions of Potts Street, Sloan Street, Griffith Street and Beaty Street. Asbestos impacted soil that is disturbed or removed during construction activities should be properly managed by trained personnel and disposed at a permitted facility. Asbestos impacted soil identified near the proposed grade of new ditch areas should be over excavated during construction activities. Clean fill should be placed below the proposed ditch grade in these areas. Orange snow fencing (or similar demarcation) should be placed beneath the clean fill to demark potential asbestos impacted soil beneath these ditch areas.

3.0 Investigative Derived Waste

Investigation derived waste (IDW) including decontamination water, personal protective equipment (PPE)/plastic sheeting, used vacuum filters and soil cuttings generated during the soil sampling activities were containerized in 55-gallon drums and stored on site. Based on asbestos detections in soil samples noted above the IDW drums were disposed as non-hazardous asbestos containing waste. The IDW was transported off-site by EVO Corporation of Winston-Salem, NC to ECOFLO's waste management facility in Greensboro, NC. The IDW was subsequently transported by ECOFLO and properly disposed at Waste Management's facility in Emelle, Alabama. The certificate of disposal and non-hazardous materials manifest are provided in Appendix F.

4.0 Summary and Regulatory Considerations

H&H has reviewed available NC DEQ incident files and analytical results of soil samples collected along Potts Street, Sloan Street, Griffith Street, and Beaty Street in Davidson, Mecklenburg County, North Carolina. Review of NC DEQ incident files indicate that the Davidson Asbestos site is located near proposed NC DOT work areas. The Davidson Asbestos site consists of 32 parcels and a former asbestos mill located at 219 Depot Street. The former asbestos mill (Carolina Asbestos Company) manufactured asbestos containing products from the 1930s to the 1960s. ACM/waste was reportedly disposed on the mill property and throughout the nearby neighborhood. Previous assessments by others were conducted that determined the presence of asbestos impacted soils

located at the former asbestos mill site and in the community surrounding the former mill. In 2017, EPA conducted ACM and asbestos impacted soil removal activities on 32 parcels near the former mill site including several properties near proposed NC DOT work areas. ACM and asbestos impacted soil were removed at various depths on each of these properties and properly disposed. Potential ACM and asbestos impacted soil was not removed beneath hardscape areas such as driveways, sidewalks, roads, etc. Orange snow fencing was placed at the base of impacted soil removal areas to demark the extent of excavation activities and potential asbestos impacted soil.

Analytical results of soil samples collected by H&H indicate widespread asbestos impacted soil and ACM are located within proposed NC DOT work areas. Laboratory analytical results indicate that asbestos was present in 40 out of 105 soil borings conducted for this assessment. Based on laboratory analytical results, the following estimated quantities of asbestos impacted soil are located within proposed NC DOT work areas.

- There are roughly 7,000 cubic yards (10,500 tons) of impacted soil at various depths between the surface and 8 ft bgs along the northern portion of Potts Street and the proposed road extension between Potts Street and Sloan Street.
- There are roughly 150 cubic yards (225 tons) of asbestos impacted soil between the surface and 1 ft bgs along Sloan Street near borings SLN-9 and SLN-10, roughly 300 cubic yards (450 tons) of asbestos impacted soil between the surface and 1 ft bgs along Sloan Street near borings SLN-13 through and SLN-17, and roughly 300 cubic yards (450 tons) of asbestos impacted soil between the surface and 2 ft bgs along Sloan Street near borings SLN-20 and SLN-21.
- There are roughly 400 cubic yards (600 tons) of asbestos impacted soil between the surface and 1 ft bgs along Griffith Street near borings GRF-1 through GRF-3, roughly 750 cubic yards (1,100 tons) of asbestos impacted soil between the surface and 4 ft bgs along Griffith Street near boring GRF-24, and roughly 800 cubic yards (1,200 tons) of asbestos impacted soil between the surface and 1 ft bgs along Griffith Street near borings GRF-28 through GRF-32.

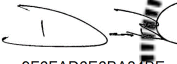
- There are roughly 350 cubic yards (530 tons) of asbestos impacted soil between 4 ft and 6 ft bgs along Beaty Street near boring BTY-1.

NC DOT plans indicate proposed cut areas for sidewalk improvements, drainage ditches and piping installations, and road construction activities along portions of Potts Street, Sloan Street, Griffith Street and Beaty Street. Appropriate precautions and procedures should be implemented for the sidewalk, road construction, and drainage/piping work within asbestos impacted soil areas. Asbestos impacted soil that is disturbed or removed during construction activities should be properly managed by trained personnel and disposed at a permitted facility. H&H will develop an asbestos impacted soil management plan for use by NC DOT's construction contractor during construction activities. The soil management plan will provide safety guidance and certain precautions and procedures to be considered by the construction contractor during construction activities near asbestos impacted soil. The soil management plan will also detail procedures for managing the removal and disposal of asbestos impacted soil.

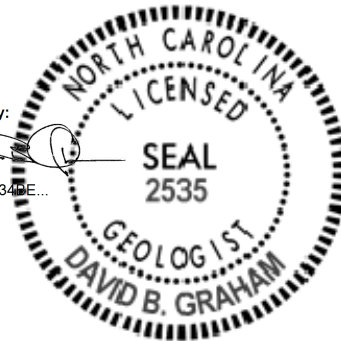
5.0 Signature Page

This report was prepared by:

David Graham, PG
Senior Project Geologist for
Hart & Hickman, PC


DocuSigned by:

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4/21/2020



This report was reviewed by:

Matt Bramblett, PE
Principal and Project Manager for
Hart & Hickman, PC

DocuSigned by:

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4/21/2020

Not considered final unless all signatures are completed.

Table 1 (Page 1 of 4)
Summary of Soil Boring GPS Coordinate Data
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605

Sample ID	Latitude	Longitude
Potts Street (PTS)		
PTS-1	35.494885	-80.855172
PTS-2	35.495123	-80.854976
PTS-3	35.495370	-80.854799
PTS-4	35.495565	-80.854645
PTS-5	35.495908	-80.854341
PTS-6	35.496124	-80.854128
PTS-7	35.496336	-80.853900
PTS-8	35.496474	-80.853755
PTS-9	35.496704	-80.853510
PTS-10	35.496905	-80.853290
PTS-11	35.497146	-80.853001
PTS-12	35.497387	-80.852817
PTS-13	35.497713	-80.852442
PTS-14	35.497846	-80.852334
PTS-15	35.498062	-80.852129
PTS-16	35.498317	-80.851921
PTS-17	35.498531	-80.851738
PTS-18	35.498658	-80.851476
PTS-19	35.498763	-80.851537
PTS-20	35.498798	-80.851371
PTS-21	35.498961	-80.851411
PTS-22	35.499032	-80.851298
PTS-23	35.495258	-80.854888
Extension (EXT) Between Potts Street and Sloan Street		
EXT-1	35.499226	-80.851494
EXT-2	35.499404	-80.851231
EXT-3	35.499324	-80.851568
EXT-4	35.499476	-80.851294
EXT-5	35.499424	-80.851516
EXT-6	35.499581	-80.851423
EXT-7	35.499429	-80.851676

Notes:

GPS coordinate data points collected using a Trimble GeoExplorer 6000 series unit with external satellite for increased accuracy.

**Table 1 (Page 2 of 4)
 Summary of Soil Boring GPS Coordinate Data
 Davidson Asbestos Site
 Davidson, North Carolina
 H&H Job No. ROW-605**

Sample ID	Latitude	Longitude
Extension (EXT) Between Potts Street and Sloan Street		
EXT-8	35.499540	-80.851613
EXT-9	35.499699	-80.851566
EXT-10	35.499538	-80.851782
EXT-11	35.499650	-80.851716
EXT-12	35.499677	-80.851896
EXT-13	35.499788	-80.851833
EXT-14	35.499821	-80.851774
EXT-15	35.499220	-80.851347
EXT-16	35.499311	-80.851424
Sloan Street (SLN)		
SLN-1	35.499747	-80.852065
SLN-2	35.499819	-80.852121
SLN-3	35.499806	-80.851953
SLN-4	35.499869	-80.852011
SLN-5	35.499950	-80.851796
SLN-6	35.500006	-80.851942
SLN-7	35.500046	-80.851854
SLN-8	35.500134	-80.851988
SLN-9	35.500271	-80.852040
SLN-10	35.500424	-80.852096
SLN-11	35.500550	-80.852140
SLN-12	35.500697	-80.852193
SLN-13	35.500863	-80.852251
SLN-14	35.501003	-80.852299
SLN-15	35.501127	-80.852339
SLN-16	35.501265	-80.852388
SLN-17	35.501410	-80.852457
SLN-18	35.501509	-80.852606
SLN-19	35.501601	-80.852740
SLN-20	35.502409	-80.852691
SLN-21	35.502413	-80.852585
SLN-22	35.502548	-80.852744
SLN-23	35.502535	-80.852609

Notes:

GPS coordinate data points collected using a Trimble GeoExplorer 6000 series unit with external satellite for increased accuracy.

Table 1 (Page 3 of 4)
Summary of Soil Boring GPS Coordinate Data
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605

Sample ID	Latitude	Longitude
Griffith Street (GRF)		
GRF-1	35.502674	-80.851461
GRF-2	35.502797	-80.851447
GRF-3	35.502693	-80.851633
GRF-4	35.502815	-80.851626
GRF-5	35.502704	-80.851808
GRF-6	35.502834	-80.851823
GRF-7	35.502719	-80.851969
GRF-8	35.502883	-80.852001
GRF-9	35.502739	-80.852129
GRF-10	35.502916	-80.852154
GRF-11	35.502943	-80.852330
GRF-12	35.503042	-80.852546
GRF-13	35.502740	-80.852472
GRF-14	35.502670	-80.852607
GRF-15	35.503114	-80.852681
GRF-16	35.502983	-80.852655
GRF-17	35.502785	-80.852835
GRF-18	35.502686	-80.852847
GRF-19	35.502976	-80.853006
GRF-20	35.502752	-80.852981
GRF-21	35.502936	-80.853154
GRF-22	35.502773	-80.853153
GRF-23	35.502919	-80.853345
GRF-24	35.502773	-80.853319
GRF-25	35.502923	-80.853515
GRF-26	35.502774	-80.853475
GRF-27	35.502930	-80.853680
GRF-28	35.502783	-80.853657
GRF-29	35.502940	-80.853855
GRF-30	35.502791	-80.853842
GRF-31	35.502798	-80.854005
GRF-32	35.502816	-80.854185
GRF-33	35.502745	-80.852292

Notes:

GPS coordinate data points collected using a Trimble GeoExplorer 6000 series unit with external satellite for increased accuracy.

Table 1 (Page 4 of 4)
Summary of Soil Boring GPS Coordinate Data
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605

Sample ID	Latitude	Longitude
Beaty Street (BTY)		
BTY-1	35.503143	-80.852966
BTY-2	35.503196	-80.852716
BTY-3	35.503288	-80.852880
BTY-4	35.503343	-80.852782
BTY-5	35.503461	-80.852874
BTY-6	35.503487	-80.853121
BTY-7	35.503574	-80.852984
BTY-8	35.503622	-80.853197
BTY-9	35.503669	-80.853049
BTY-10	35.503230	-80.852623

Notes:

GPS coordinate data points collected using a Trimble GeoExplorer 6000 series unit with external satellite for increased accuracy.

**Table 2 (Page 1 of 5)
Summary of Soil Analytical Results
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605**

Sample ID	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116 with milling prep	Transmission Electron Microscopy (TEM) Qualitative (via Filtration Technique)
Potts Street (PTS)				
PTS-1	0-1	12/3/19	ND	ND
PTS-2	0-1	12/3/19	ND	ND
PTS-3	0-1	12/3/19	ND	ND
PTS-4	0-1	12/3/19	ND	ND
PTS-5	0-1	12/3/19	ND	ND
PTS-6	0-1	12/3/19	ND	ND
PTS-7	0-1	12/3/19	ND	ND
PTS-8	0-1	12/3/19	ND	ND
PTS-9	1-2	12/3/19	ND	ND
PTS-10	0-1	12/3/19	ND	ND
PTS-11	0-1	12/3/19	ND	ND
PTS-12	0-1	12/3/19	ND	ND
PTS-13	0-1	12/3/19	ND	ND
PTS-14	0-1	12/3/19	ND	ND
PTS-15	0-1	12/3/19	ND	ND
PTS-16	0-1	12/3/19	ND	ND
PTS-17	0-1	12/3/19	Positive (<0.25%)	NA
PTS-18	0-1	12/3/19	ND	ND
	1-2	12/3/19	ND	ND
PTS-19	0-1	12/3/19	Positive (<0.25%)	NA
	1-2	12/3/19	ND	ND
PTS-20	0-1	12/3/19	Positive (<0.25%)	NA
	1-2	12/3/19	Positive (0.75%)	NA
PTS-21	0-1	12/3/19	ND	ND
	1-2	12/3/19	Positive (<0.25%)	NA
PTS-22	0-1	12/3/19	Positive (<0.25%)	NA
	1-2	12/3/19	ND	Positive (Chrysotile)
PTS-23	0-1	12/3/19	ND	ND
Extension (EXT) Between Potts Street and Sloan Street				
EXT-1	0-1	12/2/19	ND	Positive (Chrysotile)
	1-2	12/2/19	ND	ND
	2-3	12/2/19	ND	ND
	3-4	12/2/19	ND	ND
EXT-2	0-1	12/2/19	ND	Positive (Chrysotile)
	1-2	12/2/19	ND	Positive (Chrysotile)
	2-3	12/2/19	Positive (<0.25%)	NA
	4-4.5	12/2/19	ND	Positive (Chrysotile)
EXT-3	0-1	12/2/19	Positive (<0.25%)	NA
	1.5-2.5	12/2/19	ND	ND
	3.5-4.5	12/2/19	ND	ND
	4.5-5.5	12/2/19	ND	ND

Notes:

ft bgs = feet below ground surface; ND = None Detected; NA = Not Analyzed

<0.25% = <0.25 % chrysotile asbestos detected in sample; 0.25% = percent chrysotile asbestos detected in sample

**Table 2 (Page 2 of 5)
 Summary of Soil Analytical Results
 Davidson Asbestos Site
 Davidson, North Carolina
 H&H Job No. ROW-605**

Sample ID	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116 with milling prep	Transmission Electron Microscopy (TEM) Qualitative (via Filtration Technique)
EXT-4	0-1	12/2/19	Positive (0.25%)	NA
	2-3	12/2/19	Positive (0.25%)	NA
	4-5	12/2/19	ND	ND
	5-6	12/2/19	Positive (0.25%)	NA
	7-7.5	12/2/19	Positive (<0.25%)	NA
EXT-5	0-1	12/2/19	ND	ND
	3-4	12/2/19	ND	ND
	7-8	12/2/19	ND	ND
EXT-6	0-1	12/2/19	ND	Positive (Chrysotile)
	2.5-3.5	12/2/19	ND	ND
	5-6	12/2/19	ND	ND
	6-7	12/2/19	ND	ND
EXT-7	0-1	12/2/19	Positive (<0.25%)	NA
	1.5-2.5	12/2/19	ND	ND
	3-4	12/2/19	ND	ND
	4-5	12/2/19	ND	ND
EXT-8	0-1	12/2/19	ND	Positive (Chrysotile)
	3-4	12/2/19	ND	ND
	6-7	12/2/19	ND	ND
EXT-9	0-1	12/2/19	ND	ND
	1.5-2.5	12/2/19	Positive (0.25%)	Positive (Chrysotile)
	3-4	12/2/19	Positive (0.25%)	NA
	4-5	12/2/19	Positive (<0.25%)	NA
	6-6.5	12/2/19	Positive (0.50%)	NA
EXT-10	0-1	12/2/19	ND	Positive (Chrysotile)
	1.5-2.5	12/2/19	ND	Positive (Chrysotile)
	3-4	12/2/19	ND	Positive (Chrysotile)
	4-5	12/2/19	ND	Positive (Chrysotile)
	6-6.5	12/2/19	ND	ND
EXT-11	0-1	12/2/19	Positive (<0.25%)	NA
	1.5-2.5	12/2/19	Positive (<0.25%)	NA
	3-4	12/2/19	Positive (<0.25%)	NA
EXT-12	0-1	12/2/19	Positive (0.25%)	NA
	1-2	12/2/19	Positive (<0.25%)	NA
	2.5-3.5	12/2/19	Positive (<0.25%)	NA
	3.5-4.5	12/2/19	Positive (<0.25%)	NA
	5.5-6	12/2/19	ND	Positive (Chrysotile)
EXT-13	0-1	12/2/19	Positive (0.25%)	NA
	1-2	12/2/19	Positive (0.25%)	NA
	2-3	12/2/19	Positive (<0.25%)	NA
EXT-14	0-1	12/2/19	Positive (0.25%)	NA
	1.5-2.5	12/2/19	Positive (<0.25%)	NA
	3-4	12/2/19	Positive (<0.25%)	NA

Notes:

ft bgs = feet below ground surface; ND = None Detected; NA = Not Analyzed

<0.25% = <0.25 % chrysotile asbestos detected in sample; 0.25% = percent chrysotile asbestos detected in sample

**Table 2 (Page 3 of 5)
Summary of Soil Analytical Results
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605**

Sample ID	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116 with milling prep	Transmission Electron Microscopy (TEM) Qualitative (via Filtration Technique)
EXT-15	0-1	12/6/19	ND	ND
EXT-16	0-1	12/6/19	Positive (<0.25%)	NA
Sloan Street (SLN)				
SLN-1	0-1	12/4/19	Positive (<0.25%)	NA
	1-2	12/4/19	Positive (<0.25%)	NA
SLN-2	0-1	12/3/19	ND	ND
SLN-3	0-1	12/4/19	ND	ND
	2.5-3.5	12/4/19	ND	ND
	5-6	12/4/19	ND	ND
SLN-4	0-1	12/3/19	ND	ND
	3-4	12/3/19	ND	ND
	7-8	12/3/19	ND	ND
SLN-5	0-1	12/4/19	Positive (0.75%)	NA
	1-2	12/4/19	Positive (1.25%)	NA
SLN-6	0-1	12/3/19	ND	ND
SLN-7	0-1	12/4/19	ND	ND
	1-2	12/4/19	ND	ND
SLN-8	0-1	12/3/19	ND	ND
SLN-9	0-1	12/3/19	Positive (0.75%)	NA
SLN-10	0-1	12/3/19	Positive (<0.25%)	NA
SLN-11	0-1	12/3/19	ND	ND
SLN-12	0-1	12/4/19	ND	ND
SLN-13	0-1	12/4/19	Positive (<0.25%)	NA
SLN-14	0-1	12/4/19	Positive (0.25%)	NA
SLN-15	0-1	12/4/19	Positive (0.75%)	NA
SLN-16	0-1	12/4/19	Positive (<0.25%)	NA
SLN-17	0-1	12/4/19	Positive (0.25%)	NA
SLN-18	0-1	12/4/19	ND	ND
SLN-19	0-1	12/4/19	ND	ND
SLN-20	0-1	12/5/19	Positive (<0.25%)	NA
	1-2	12/5/19	ND	ND
SLN-21	0-1	12/5/19	ND	ND
	1-2	12/5/19	Positive (<0.25%)	NA
SLN-22	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
SLN-23	0-1	12/5/19	ND	ND
Griffith Street (GRF)				
GRF-1	0-1	12/5/19	Positive (0.50%)	NA
	1-2	12/5/19	ND	ND
GRF-2	0-1	12/6/19	Positive (2.25%)	NA
GRF-3	0-1	12/5/19	ND	Positive (Chrysotile)
	1-2	12/5/19	ND	ND

Notes:

ft bgs = feet below ground surface; ND = None Detected; NA = Not Analyzed

<0.25% = <0.25 % chrysotile asbestos detected in sample; 0.25% = percent chrysotile asbestos detected in sample

**Table 2 (Page 4 of 5)
 Summary of Soil Analytical Results
 Davidson Asbestos Site
 Davidson, North Carolina
 H&H Job No. ROW-605**

Sample ID	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116 with milling prep	Transmission Electron Microscopy (TEM) Qualitative (via Filtration Technique)
GRF-4	0-1	12/6/19	ND	ND
GRF-5	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
GRF-6	0-1	12/6/19	ND	ND
GRF-7	0-1	12/5/19	ND	ND
GRF-8	0-1	12/6/19	ND	ND
	1-2	12/6/19	ND	ND
GRF-9	0-1	12/5/19	ND	ND
GRF-10	0-1	12/6/19	ND	ND
	1-2	12/6/19	ND	ND
GRF-11	0-1	12/6/19	ND	ND
	1.5-2.5	12/6/19	ND	ND
	3-4	12/6/19	ND	ND
GRF-12	0-1	12/4/19	ND	ND
	1-2	12/4/19	ND	ND
GRF-13	0-1	12/5/19	ND	ND
	2-3	12/5/19	ND	ND
	4-5	12/5/19	ND	ND
GRF-14	0-1	12/5/19	ND	ND
	2-3	12/5/19	ND	ND
	4-5	12/5/19	ND	ND
GRF-15	0-1	12/4/19	ND	ND
	2-3	12/4/19	ND	ND
	3.5-4.5	12/4/19	ND	ND
GRF-16	0-1	12/4/19	ND	ND
	1-2	12/4/19	ND	ND
GRF-17	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
GRF-18	0-1	12/5/19	ND	ND
	2-3	12/5/19	ND	ND
	4-5	12/5/19	ND	ND
GRF-19	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	4.5-5.5	12/6/19	ND	ND
GRF-20	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	4-5	12/6/19	ND	ND
GRF-21	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	4-5	12/6/19	ND	ND

Notes:

ft bgs = feet below ground surface; ND = None Detected; NA = Not Analyzed

<0.25% = <0.25 % chrysotile asbestos detected in sample; 0.25% = percent chrysotile asbestos detected in sample

**Table 2 (Page 5 of 5)
Summary of Soil Analytical Results
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605**

Sample ID	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116 with milling prep	Transmission Electron Microscopy (TEM) Qualitative (via Filtration Technique)
GRF-22	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	3.5-4.5	12/6/19	ND	ND
GRF-23	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	4-5	12/6/19	ND	ND
GRF-24	0-1	12/6/19	Positive (0.50%)	NA
	1.5-2.5	12/6/19	Positive (0.75%)	NA
	3-4	12/6/19	Positive (<0.25%)	NA
GRF-25	0-1	12/6/19	ND	ND
GRF-26	0-1	12/5/19	ND	ND
	1.5-2.5	12/5/19	ND	ND
	3-4	12/5/19	ND	ND
GRF-27	0-1	12/6/19	ND	ND
GRF-28	0-1	12/5/19	Positive (<0.25%)	NA
GRF-29	0-1	12/6/19	Positive (<0.25%)	NA
GRF-30	0-1	12/5/19	Positive (<0.25%)	NA
GRF-31	0-1	12/5/19	Positive (<0.25%)	NA
GRF-32	0-1	12/5/19	Positive (<0.25%)	NA
GRF-33	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
Beaty Street (BTY)				
BTY-1	0-1	12/5/19	ND	ND
	2.5-3.5	12/5/19	ND	ND
	5-6	12/5/19	Positive (<0.25%)	NA
BTY-2	0-1	12/6/19	ND	ND
	2-3	12/6/19	ND	ND
	4.5-5.5	12/6/19	ND	ND
BTY-3	0-1	12/6/19	ND	ND
BTY-4	0-1	12/6/19	ND	ND
	1-2	12/6/19	ND	ND
BTY-5	0-1	12/6/19	ND	ND
	1-2	12/6/19	ND	ND
BTY-6	0-1	12/5/19	ND	ND
BTY-7	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
	2-3	12/5/19	ND	ND
BTY-8	0-1	12/5/19	ND	ND
BTY-9	0-1	12/5/19	ND	ND
	1-2	12/5/19	ND	ND
BTY-10	0-1	12/6/19	ND	ND
	1-2	12/6/19	ND	ND
	2.5-3.5	12/6/19	ND	ND
	3.5-4.5	12/6/19	ND	ND

Notes:

ft bgs = feet below ground surface; ND = None Detected; NA = Not Analyzed

<0.25% = <0.25 % chrysotile asbestos detected in sample; 0.25% = percent chrysotile asbestos detected in sample

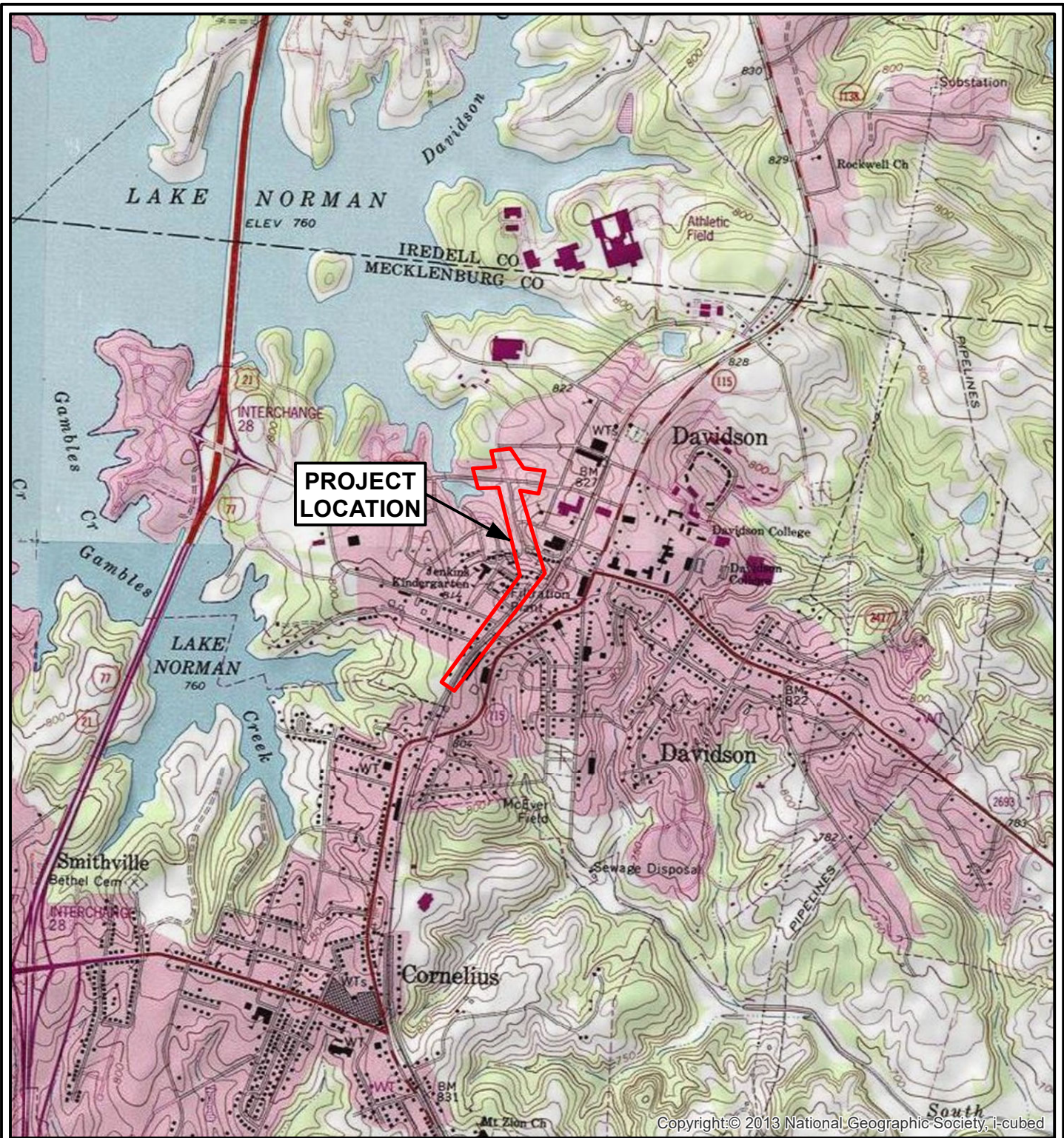
Table 3 (Page 1 of 1)
Summary of Bulk Materials Analytical Results
Davidson Asbestos Site
Davidson, North Carolina
H&H Job No. ROW-605

Sample ID	Soil Boring Location	Depth Interval (ft bgs)	Date	Polarized Light Microscopy (PLM) EPA Method 600/R-93/116
Extension (EXT) Between Potts Street and Sloan Street				
001*	EXT-13	0-3	12/2/19	5% Chrysotile
001*	EXT-14	0-4	12/2/19	5% Chrysotile

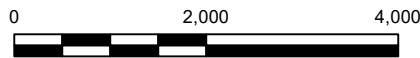
Notes:

ft bgs = feet below ground surface

* Suspected Asbestos Containing Material (floor tile pieces) observed in soil borings EXT-13 and EXT-14. One sample was taken to represent the observed suspected asbestos material in each of the two soil borings.



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SCALE IN FEET


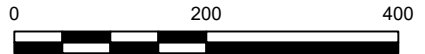

U.S.G.S. QUADRANGLE MAP

CORNELIUS AND MOOREVILLE, NORTH CAROLINA 2013

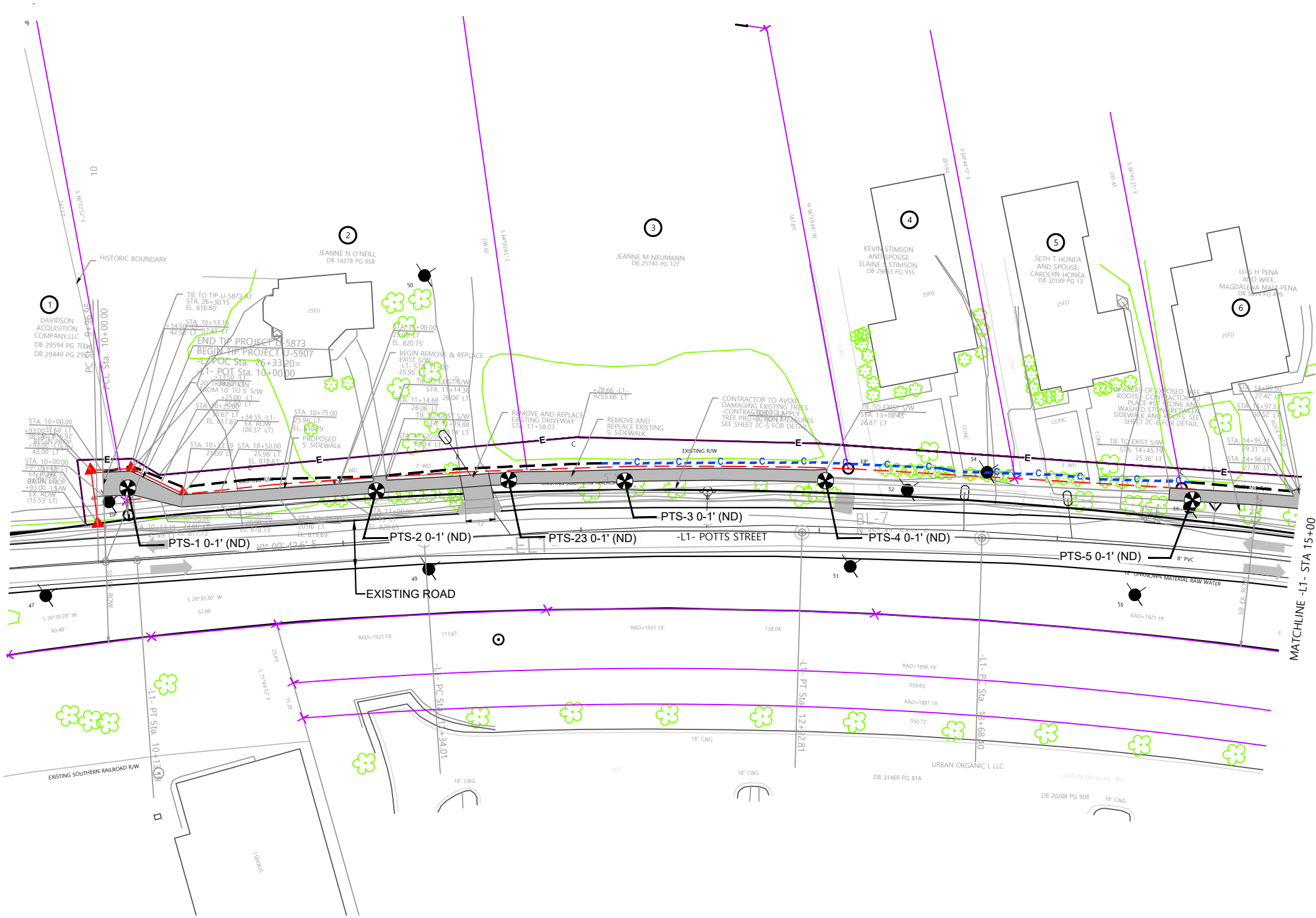
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE		PROJECT LOCATION MAP	
PROJECT		DAVIDSON ASBESTOS SITE DAVIDSON, NORTH CAROLINA	
		2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 3-20-20		REVISION NO: 0	
JOB NO: ROW-605		FIGURE. 1	



LEGEND	
●	SOIL BORING LOCATION WITHOUT ASBESTOS DETECTION
●	SOIL BORING LOCATION WITH ASBESTOS DETECTION
NOTE:	
1. BASE DATA OBTAINED FROM NC ONEMAP GIS, 2019.	
  SCALE IN FEET	
TITLE	
AERIAL PROJECT MAP AND SOIL BORING LOCATIONS	
PROJECT	
DAVIDSON ASBESTOS SITE DAVIDSON, NORTH CAROLINA	
	
2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 4-15-20	REVISION NO: 0
JOB NO: ROW-605	FIGURE NO: 2


S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-605s\ROW-605 Mecklenburg County Soil Asbestos Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG 3A, 4/16/2020 2:12:22 PM, jdemmer



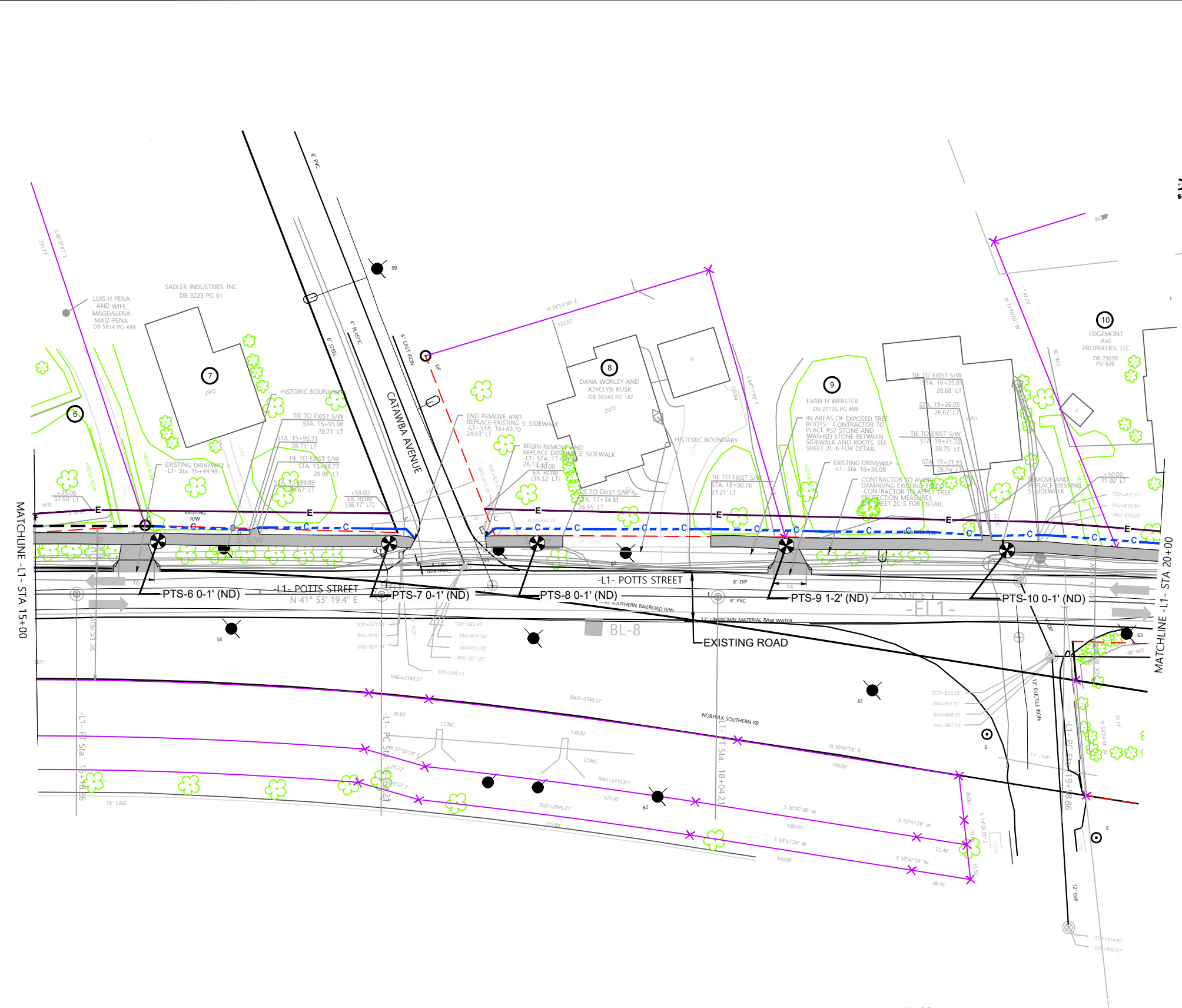
- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - -C- - - PROPOSED CUT LINE
 - - -F- - - PROPOSED FILL LINE
 - ② NC DOT PARCEL ID
 - ⊗ SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - PTS-1 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
- SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 - SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS



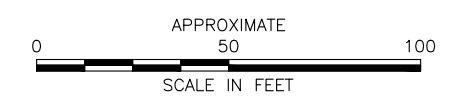
TITLE	SOIL ASBESTOS ANALYTICAL RESULTS MAP (POTTS STREET)	
PROJECT	DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0	
JOB NO. ROW-605	FIGURE NO. 3A	

S:\AAA-Master Projects\Projects\NC DOT Right-of-Way -ROW\ROW-605s\ROW-605 Mecklenburg County Soil Asbestos Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG 3B, 4/16/2020 2:12:33 PM, jdemmer




- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - - C - - - PROPOSED CUT LINE
 - - - F - - - PROPOSED FILL LINE
 - Ⓣ NC DOT PARCEL ID
 - ⊛ SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - PTS-8 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
- SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 - SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS



-L1- POTTS STREET

PI Sta 14+43.40	PI Sta 17+29.21	PI Sta 19+96.42
D = 6° 11' 24.5" (RT)	D = 0° 33' 32.4" (RT)	D = 4° 18' 07.9" (RT)
L = 149.85'	L = 150.00'	L = 75.09'
T = 75.00'	T = 75.00'	T = 37.56'
R = 1,387.05'	R = 15,374.09'	R = 1,000.00'

TITLE SOIL ASBESTOS ANALYTICAL RESULTS MAP (POTTS STREET)	
PROJECT DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
 SMARTER ENVIRONMENTAL SOLUTIONS	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 3B


S:\AAA-Master Projects\Projects\NC DOT Right-of-Way -ROW\ROW-605 Mecklenburg County Soil Asbestos\Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG 3C, 4/16/2020 2:12:43 PM, jdemmer



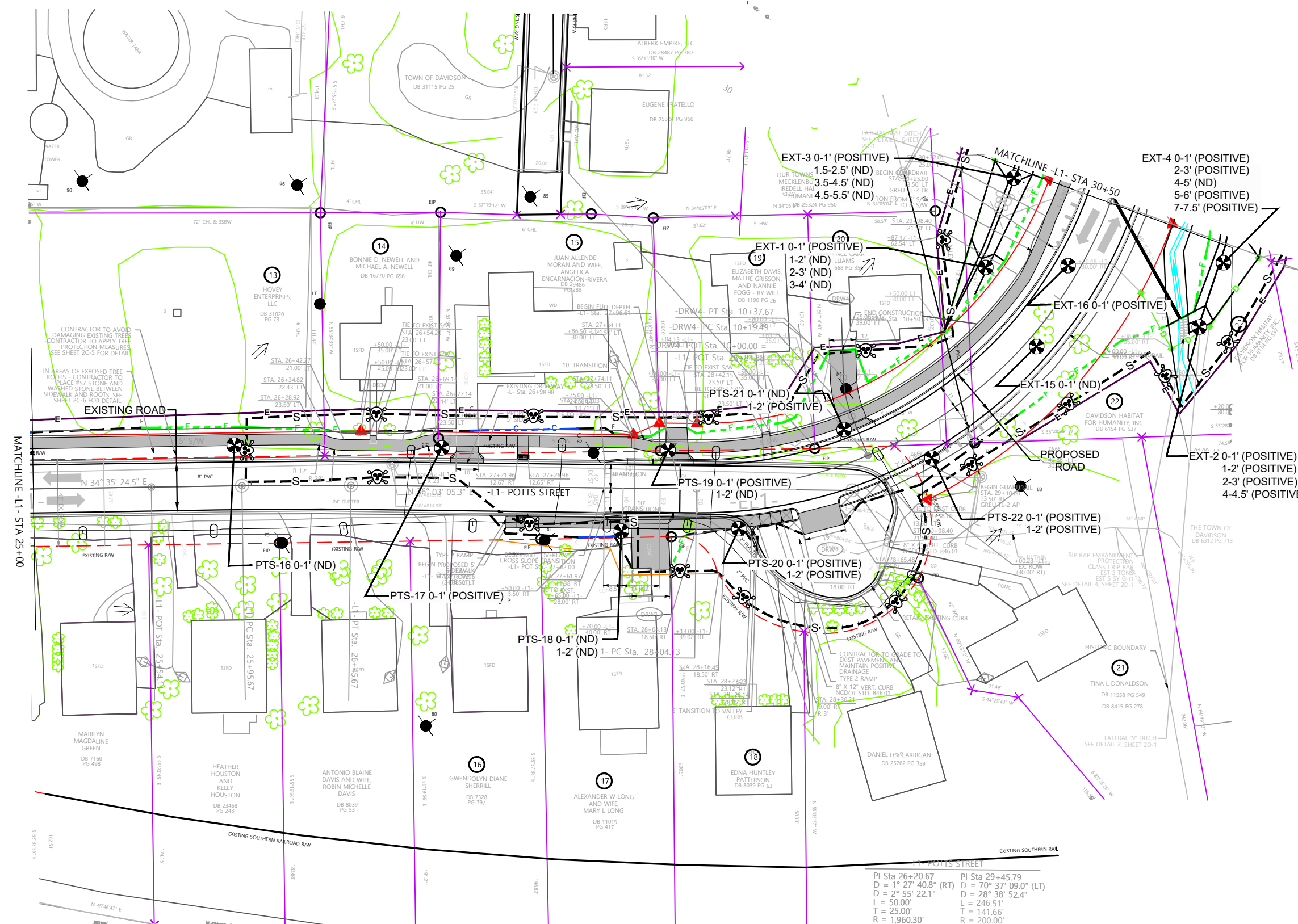
- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - - C - - - PROPOSED CUT LINE
 - - - F - - - PROPOSED FILL LINE
 - ② NC DOT PARCEL ID
 - ⊗ SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - PTS-14 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
- SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 - SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS

-L1- POTTS STREET PI Sta 19+96.42 D = 4° 18' 07.9" (RT) D = 5° 43' 46.5" L = 75.09' T = 37.56' R = 1,000.00'	-L1- POTTS STREET PI Sta 20+57.65 D = 6° 05' 57.0" (LT) D = 12° 52' 31.6" L = 47.37' T = 23.71' R = 445.00'	-L1- POTTS STREET PI Sta 23+49.14 D = 6° 03' 38.3" (LT) D = 12° 07' 57.4" L = 49.95' T = 25.00' R = 472.25'
--	---	---

TITLE	
SOIL ASBESTOS ANALYTICAL RESULTS MAP (POTTS STREET)	
PROJECT	
DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
	
2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 3C

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-605s\ROW-605s\Report\Figures\DWG 2-12-20\ROW-605s Site layout overall.dwg, FIG 3D, 4/16/2020 2:12:53 PM, jdemmer

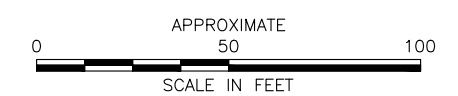


LEGEND

- PROPERTY LINE
- VEGETATION / WOODED
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- PROPOSED DRAINAGE EASEMENT
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DITCH
- CREEK FLOW DIRECTION
- AREA WITH SOIL ASBESTOS CONTAMINATION
- 14 NC DOT PARCEL ID
- SOIL SAMPLE LOCATION
- PROPOSED SIDEWALK
- PTS-16 0-1' SAMPLE ID/DEPTH
- (ND) ASBESTOS NOT DETECTED
- (POSITIVE) ASBESTOS DETECTED

NOTES:

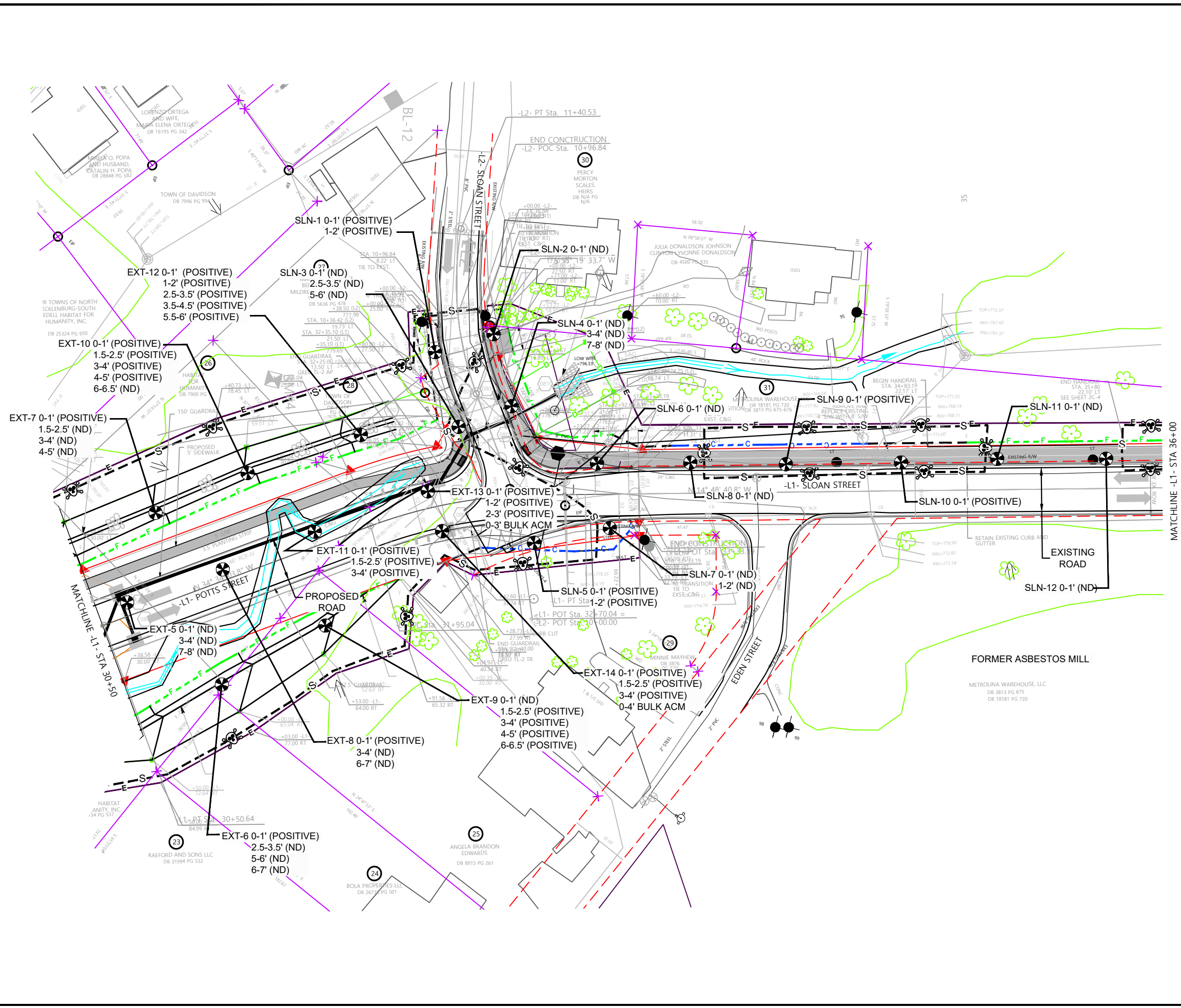
1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
3. ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED



TITLE	
SOIL ASBESTOS ANALYTICAL RESULTS MAP (POTTS STREET)	
PROJECT	
DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
SMARTER ENVIRONMENTAL SOLUTIONS	
2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 3D

PI Sta 26+20.67 PI Sta 29+45.79
D = 1° 27' 40.8" (RT) D = 70° 37' 09.0" (LT)
D = 2° 55' 22.1" D = 28° 38' 52.4"
L = 50.00' L = 246.51'
T = 25.00' T = 141.66'
R = 1,960.30' R = 200.00'

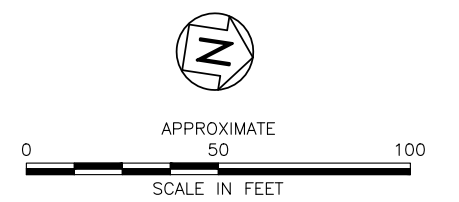
S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-605 Mecklenburg County Soil Asbestos\Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG. 3E, 4/16/2020 2:13:03 PM, jdemmer



LEGEND

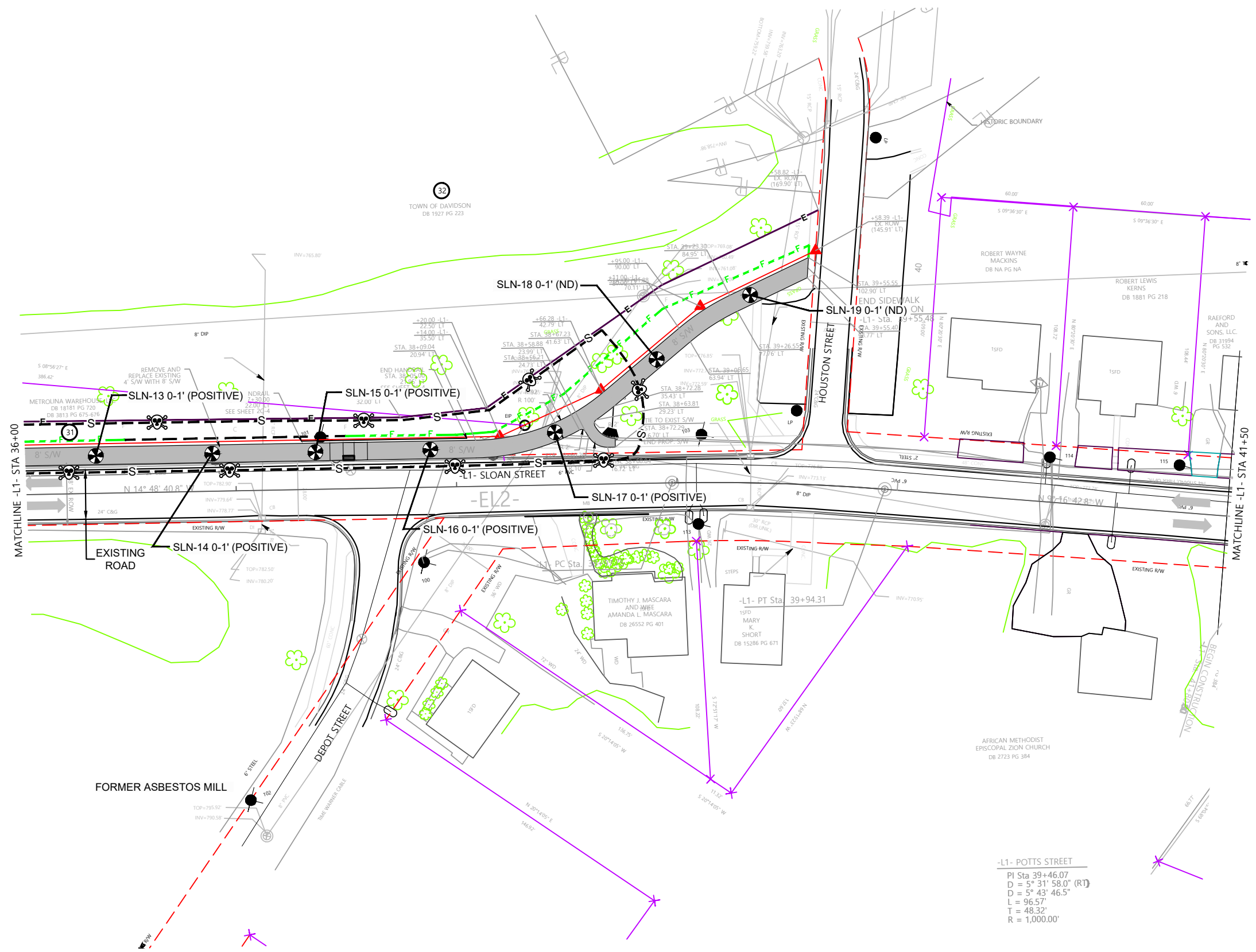
- PROPERTY LINE
- VEGETATION / WOODED
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- PROPOSED DRAINAGE EASEMENT
- PROPOSED UTILITY EASEMENT
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DITCH
- CREEK FLOW DIRECTION
- AREA WITH SOIL ASBESTOS CONTAMINATION
- NC DOT PARCEL ID
- SOIL SAMPLE LOCATION
- PROPOSED SIDEWALK
- SLN-9 0-1 SAMPLE ID/DEPTH
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN
- (ND) ASBESTOS NOT DETECTED
- (POSITIVE) ASBESTOS DETECTED

- NOTES:**
1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
 3. ACM = ASBESTOS CONTAINING MATERIAL
 4. ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED



TITLE SOIL ASBESTOS ANALYTICAL RESULTS MAP (POTTS STREET EXT.)	
PROJECT DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
SMARTER ENVIRONMENTAL SOLUTIONS	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 3E

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-605s\ROW-605s\Mecklenburg County Soil Asbestos\Report\Figures\DWG 2-12-20\ROW-605s Site layout overall.dwg, FIG. 3F, 4/16/2020 2:13:13 PM, jdemmer



- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - - C - - - PROPOSED CUT LINE
 - - - F - - - PROPOSED FILL LINE
 - S-⊗-S- AREA WITH SOIL ASBESTOS CONTAMINATION
 - 32 NC DOT PARCEL ID
 - ⊗ SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - SLN-17 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
 3. ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED



-L1- POTTS STREET
 PI Sta 39+46.07
 D = 5° 31' 58.0" (RT)
 D = 5° 43' 46.5"
 L = 96.57'
 T = 48.32'
 R = 1,000.00'

TITLE	SOIL ASBESTOS ANALYTICAL RESULTS MAP (SLOAN STREET)	
PROJECT	DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
		2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0	
JOB NO. ROW-605	FIGURE NO. 3F	

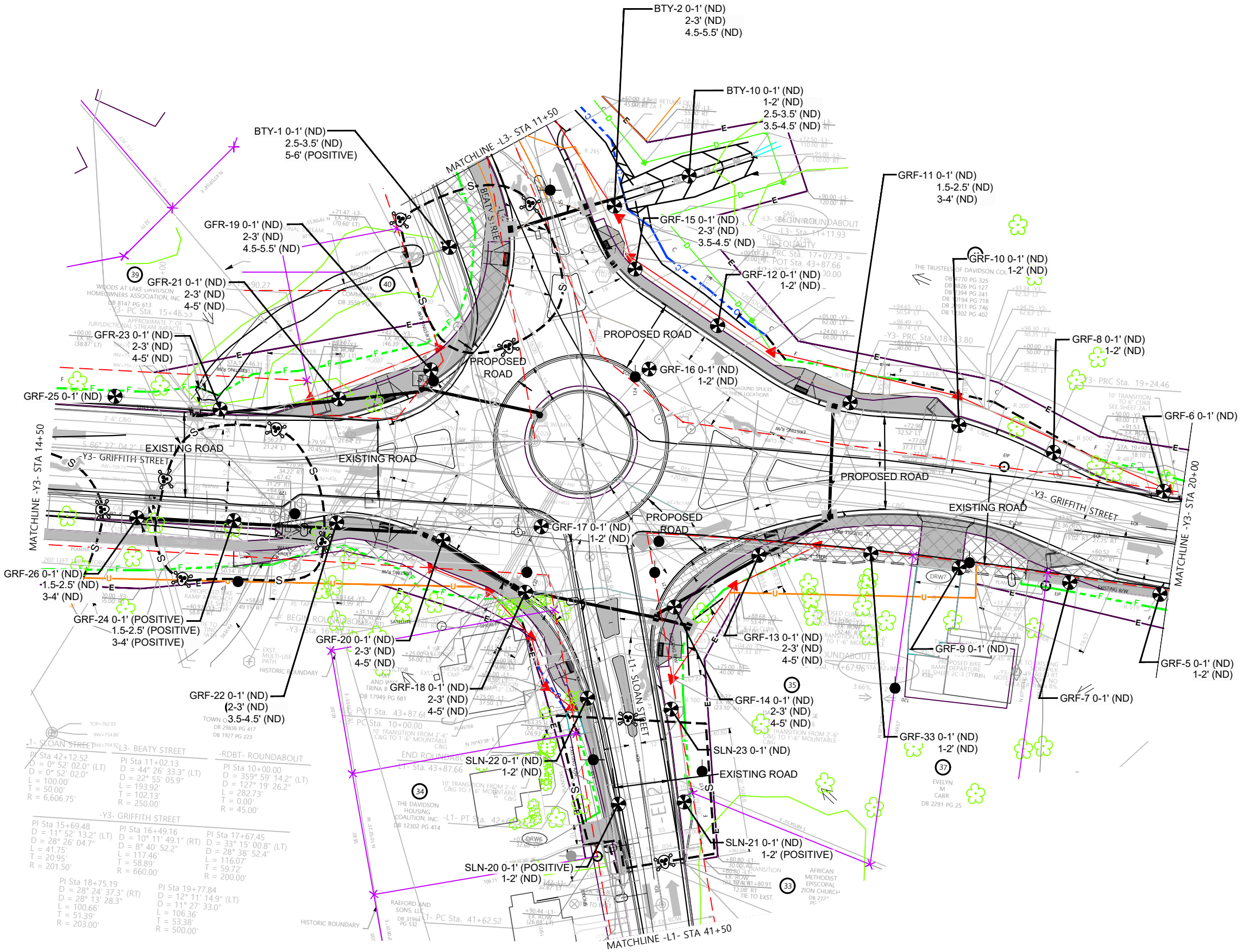
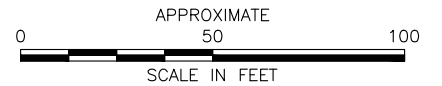
S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-605\Mecklenburg County Soil Asbestos\Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG. 3G, 4/16/2020 2:13:23 PM, jdemmer

LEGEND

- PROPERTY LINE
- VEGETATION / WOODED
- - - EXISTING RIGHT-OF-WAY
- ▲— PROPOSED RIGHT-OF-WAY
- D— PROPOSED DRAINAGE EASEMENT
- U— PROPOSED UTILITY EASEMENT
- E— PROPOSED CONSTRUCTION EASEMENT
- - -C- - - PROPOSED CUT LINE
- - -F- - - PROPOSED FILL LINE
- PROPOSED DITCH
- S-⊗-S- AREA WITH SOIL ASBESTOS CONTAMINATION
- 34 NC DOT PARCEL ID
- ⊗ SOIL SAMPLE LOCATION
- PROPOSED SIDEWALK
- GRF-11 0-1 SAMPLE ID/DEPTH
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN
- (ND) ASBESTOS NOT DETECTED
- (POSITIVE) ASBESTOS DETECTED

NOTES:

1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
3. ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED















<p>1- SLOAN STREET PI Sta 42+12.52 D = 0° 52' 02.0" (LT) L = 100.00' T = 50.00' R = 6,606.75'</p>	<p>L3- BEATY STREET PI Sta 11+02.13 D = 44° 26' 33.3" (LT) L = 22° 55' 05.9" D = 127° 59' 14.2" (LT) L = 193.92' T = 102.13' R = 250.00'</p>	<p>-RDBT- ROUNDABOUT PI Sta 10+00.00 D = 353° 59' 14.2" (LT) D = 28° 38' 52.4" L = 116.07' T = 59.72' R = 200.00'</p>
<p>-Y3- GRIFFITH STREET PI Sta 15+69.48 D = 11° 52' 13.2" (LT) D = 28° 26' 04.7" L = 41.75' T = 20.95' R = 201.50'</p>	<p>PI Sta 16+49.16 D = 10° 11' 49.1" (RT) L = 117.46' T = 58.89' R = 660.00'</p>	<p>PI Sta 17+67.45 D = 33° 15' 00.8" (LT) D = 28° 38' 52.4" L = 116.07' T = 59.72' R = 200.00'</p>
<p>PI Sta 18+75.19 D = 28° 24' 37.3" (RT) D = 28° 13' 28.3" L = 100.66' T = 51.39' R = 203.00'</p>	<p>PI Sta 19+77.84 D = 11° 27' 33.0" L = 106.36' T = 53.38' R = 500.00'</p>	

TITLE SOIL ASBESTOS ANALYTICAL RESULTS MAP (GRIFFITH STREET)	
PROJECT DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 3G

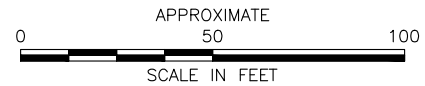



LEGEND

-  PROPERTY LINE
-  VEGETATION / WOODED
-  EXISTING RIGHT-OF-WAY
-  PROPOSED RIGHT-OF-WAY
-  PROPOSED DRAINAGE EASEMENT
-  PROPOSED UTILITY EASEMENT
-  PROPOSED CONSTRUCTION EASEMENT
-  PROPOSED CUT LINE
-  PROPOSED FILL LINE
-  40 NC DOT PARCEL ID
-  SOIL SAMPLE LOCATION
-  PROPOSED SIDEWALK
- BTY-9 0-1 SAMPLE ID/DEPTH
- (ND) ASBESTOS NOT DETECTED
- (POSITIVE) ASBESTOS DETECTED

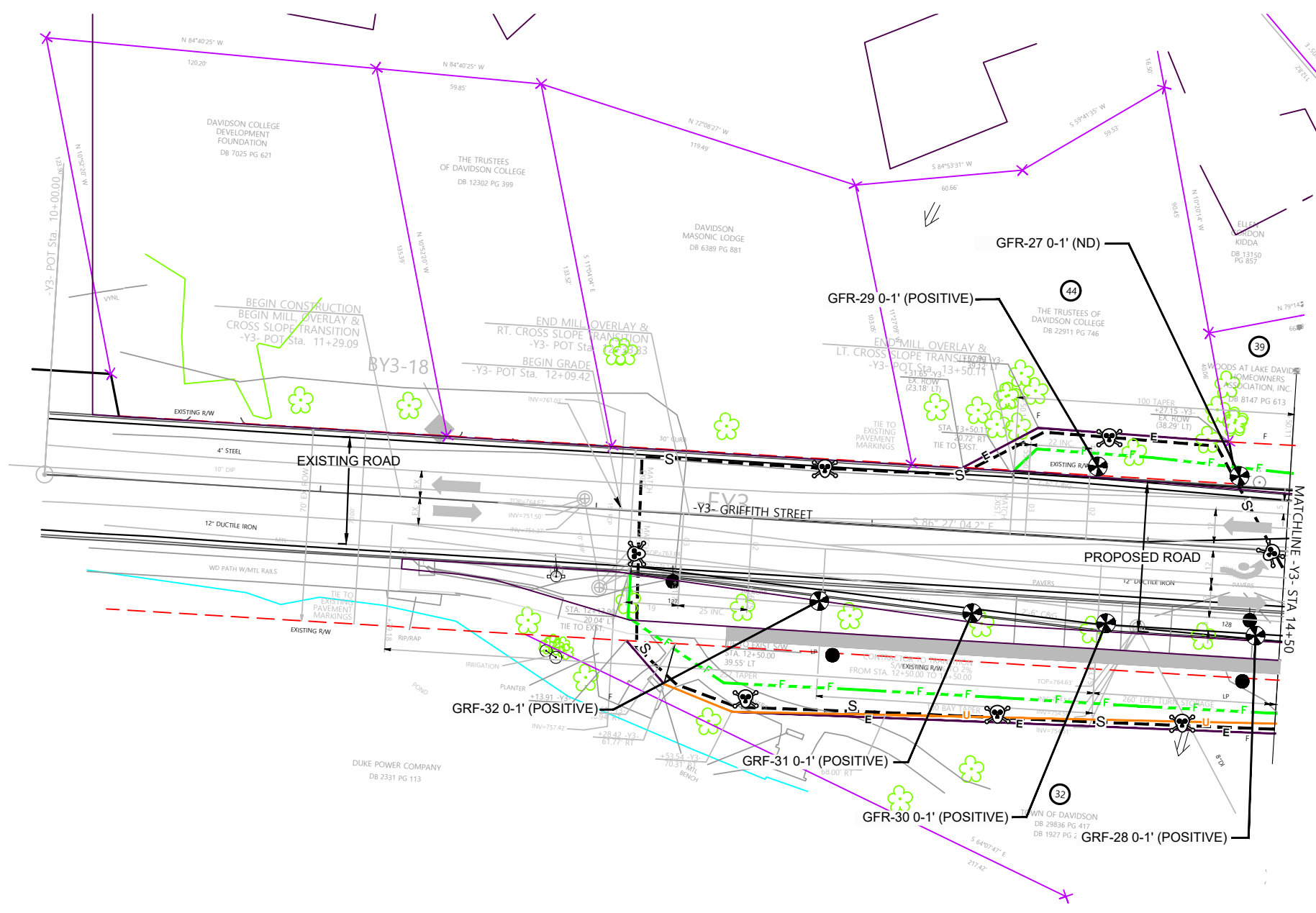
NOTES:

1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS



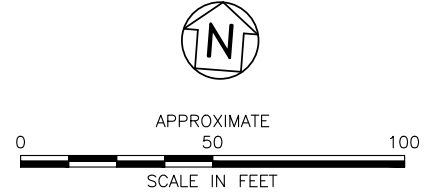
TITLE	SOIL ASBESTOS ANALYTICAL RESULTS MAP (BEATY STREET)	
PROJECT	DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 4-16-2020	REVISION NO. 0	
JOB NO. ROW-605	FIGURE NO. 3H	


S:\AAA-Master Projects\Projects\NC DOT Right-of-Way -ROW\ROW-605\ROW-605 Mecklenburg County Soil Asbestos Report\Figures\DWG 2-12-20\ROW-605 Site layout overall.dwg, FIG 31, 4/16/2020 2:13:47 PM, jdemmer



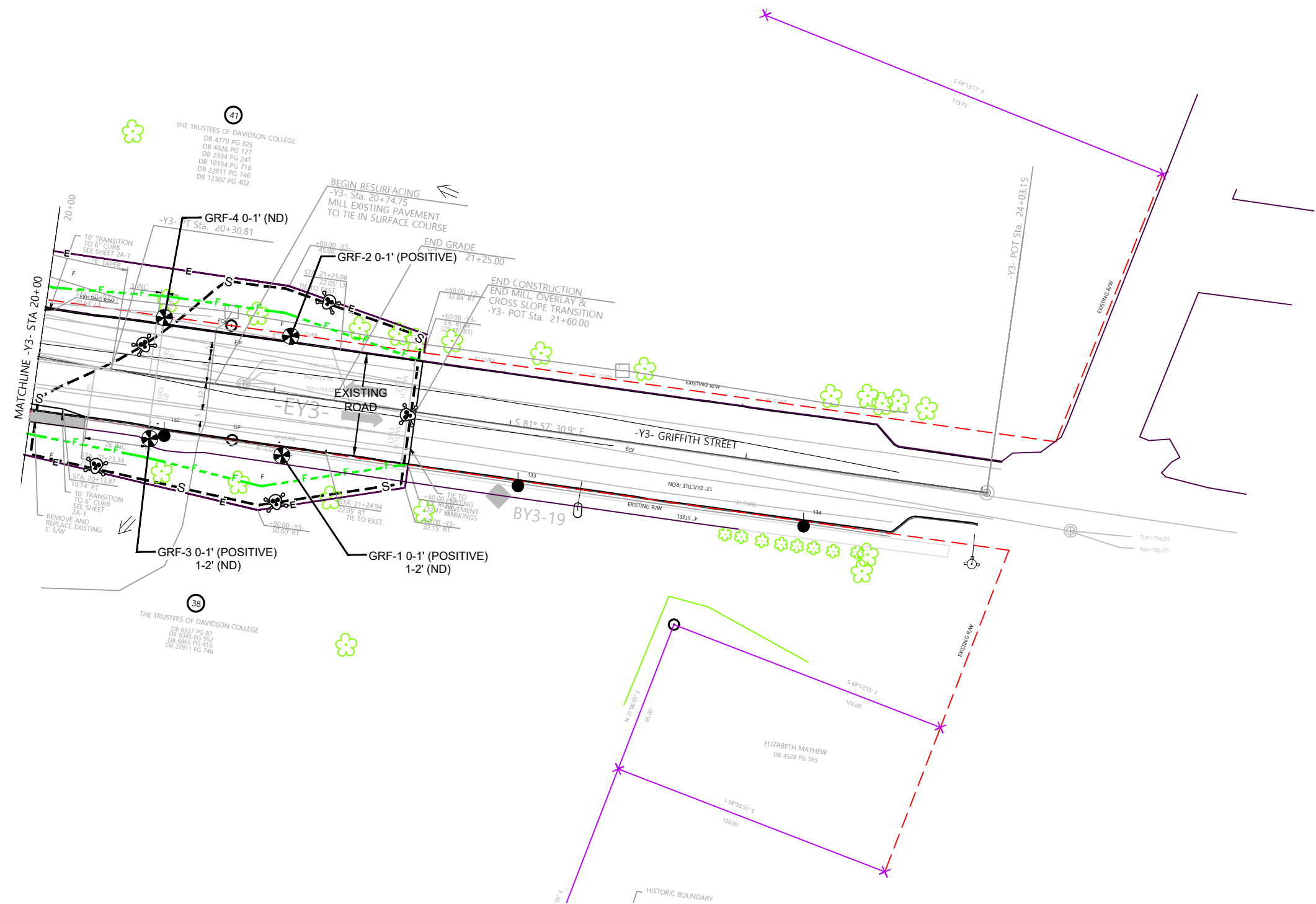
- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - - C - - - PROPOSED CUT LINE
 - - - F - - - PROPOSED FILL LINE
 - S-☠-S- AREA WITH SOIL ASBESTOS CONTAMINATION
 - Ⓣ NC DOT PARCEL ID
 - ☠ SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - GRF-31 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
- SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 - SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
 - ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED



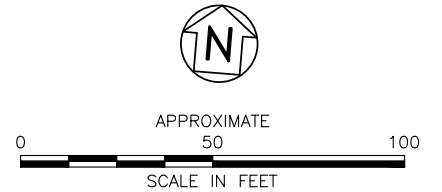
TITLE SOIL ASBESTOS ANALYTICAL RESULTS MAP (GRIFFITH STREET)	
PROJECT DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology SMARTER ENVIRONMENTAL SOLUTIONS	
DATE: 4-16-2020	REVISION NO. 0
JOB NO. ROW-605	FIGURE NO. 31

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-605s\ROW-605s\Report\Figures\DWG 2-12-20\ROW-605s\Site layout overall.dwg, FIG 3J, 4/16/2020 2:13:58 PM, jdemmer



- LEGEND**
- PROPERTY LINE
 - VEGETATION / WOODED
 - - - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - U—U— PROPOSED UTILITY EASEMENT
 - E—E— PROPOSED CONSTRUCTION EASEMENT
 - - - C - - - PROPOSED CUT LINE
 - - - F - - - PROPOSED FILL LINE
 - S- [Symbol] -S- AREA WITH SOIL ASBESTOS CONTAMINATION
 - ④1 NC DOT PARCEL ID
 - [Symbol] SOIL SAMPLE LOCATION
 - PROPOSED SIDEWALK
 - GRF-2 0-1 SAMPLE ID/DEPTH
 - (ND) ASBESTOS NOT DETECTED
 - (POSITIVE) ASBESTOS DETECTED

- NOTES:**
1. SAMPLES COLLECTED BETWEEN 12/2/19 AND 12/6/19
 2. SEE TABLE 2 FOR ASBESTOS ANALYTICAL METHODS AND RESULTS
 3. ONLY IMPACTED SOIL THAT IS WITHIN DOT WORK AREAS DEPICTED



TITLE	SOIL ASBESTOS ANALYTICAL RESULTS MAP (GRIFFITH STREET)	
PROJECT	DAVIDSON ASBESTOS SITE DAVIDSON, MECKLENBURG COUNTY NORTH CAROLINA	
	hart hickman	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology
DATE: 4-16-2020	REVISION NO. 0	
JOB NO. ROW-605	FIGURE NO. 3J	

Appendix A

NC DOT Preliminary Plan Sheets

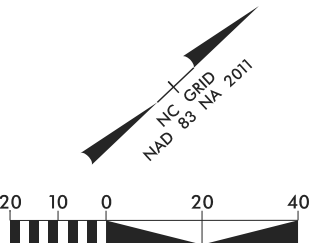
5/14/2019

ROUNDABOUT GEOMETRY SHEET

Kimley»Horn

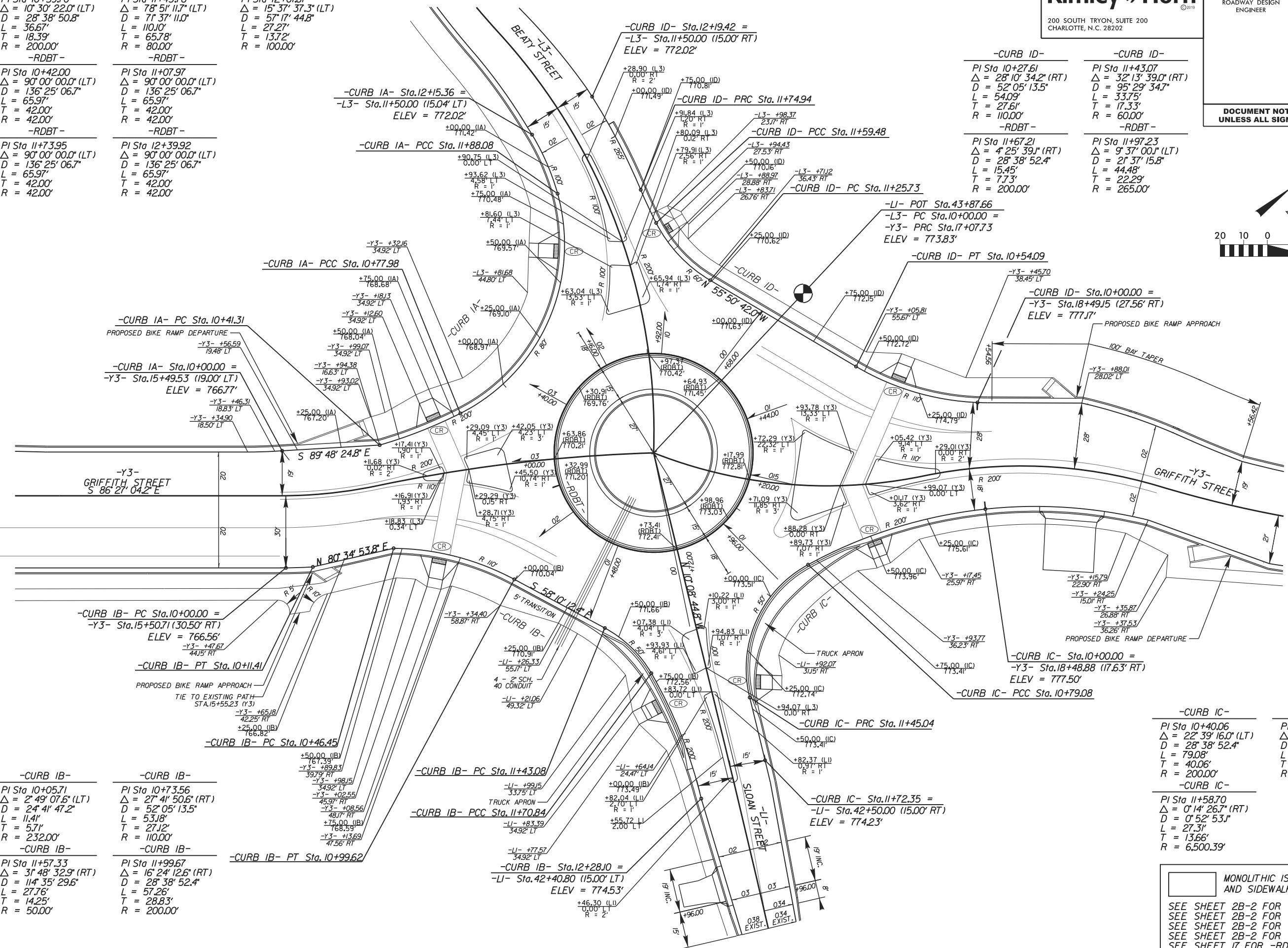
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 2B-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-CURB IA- PI Sta 10+59.70 Δ = 10° 30' 22.0" (LT) D = 28' 38" 50.8" L = 36.67' T = 18.39' R = 200.00' -RDBT-	-CURB IA- PI Sta 11+43.76 Δ = 78° 51' 11.7" (LT) D = 71' 37" 11.0" L = 110.10' T = 65.78' R = 80.00' -RDBT-	-CURB IA- PI Sta 12+01.81 Δ = 15° 37' 37.3" (LT) D = 57' 17" 44.8" L = 27.27' T = 13.72' R = 100.00' -RDBT-
-CURB IA- PI Sta 10+42.00 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 11+07.97 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 12+39.92 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-
-CURB IA- PI Sta 11+73.95 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 12+39.92 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	

-CURB ID- PI Sta 10+27.61 Δ = 28° 10' 34.2" (RT) D = 52' 05" 13.5" L = 54.09' T = 27.61' R = 110.00' -RDBT-	-CURB ID- PI Sta 11+43.07 Δ = 32° 13' 39.0" (RT) D = 95' 29' 34.7" L = 33.75' T = 17.33' R = 60.00' -RDBT-
-CURB ID- PI Sta 11+67.21 Δ = 4° 25' 39.1" (RT) D = 28' 38" 52.4" L = 15.45' T = 7.73' R = 200.00'	-CURB ID- PI Sta 11+97.23 Δ = 9° 37' 00.1" (LT) D = 21' 37" 15.8" L = 44.48' T = 22.29' R = 265.00'



-CURB IA- PI Sta 10+59.70 Δ = 10° 30' 22.0" (LT) D = 28' 38" 50.8" L = 36.67' T = 18.39' R = 200.00' -RDBT-	-CURB IA- PI Sta 11+43.76 Δ = 78° 51' 11.7" (LT) D = 71' 37" 11.0" L = 110.10' T = 65.78' R = 80.00' -RDBT-	-CURB IA- PI Sta 12+01.81 Δ = 15° 37' 37.3" (LT) D = 57' 17" 44.8" L = 27.27' T = 13.72' R = 100.00' -RDBT-
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-CURB IA- PI Sta 10+42.00 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 11+07.97 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 12+39.92 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-
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-CURB IA- PI Sta 11+73.95 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	-CURB IA- PI Sta 12+39.92 Δ = 90° 00' 00.0" (LT) D = 136' 25" 06.7" L = 65.97' T = 42.00' R = 42.00' -RDBT-	
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-CURB IB- PI Sta 10+05.71 Δ = 2° 49' 07.6" (LT) D = 24' 41" 47.2" L = 11.41' T = 5.71' R = 232.00' -CURB IB-	-CURB IB- PI Sta 10+73.56 Δ = 27° 41' 50.6" (RT) D = 52' 05" 13.5" L = 53.18' T = 27.12' R = 110.00' -CURB IB-	-CURB IB- PI Sta 11+57.33 Δ = 31° 48' 32.9" (RT) D = 114' 35" 29.6" L = 27.76' T = 14.25' R = 50.00'
--	--	---

-CURB IB- PI Sta 10+05.71 Δ = 2° 49' 07.6" (LT) D = 24' 41" 47.2" L = 11.41' T = 5.71' R = 232.00' -CURB IB-	-CURB IB- PI Sta 10+73.56 Δ = 27° 41' 50.6" (RT) D = 52' 05" 13.5" L = 53.18' T = 27.12' R = 110.00' -CURB IB-	-CURB IB- PI Sta 11+57.33 Δ = 31° 48' 32.9" (RT) D = 114' 35" 29.6" L = 27.76' T = 14.25' R = 50.00'
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-CURB IB- PI Sta 10+05.71 Δ = 2° 49' 07.6" (LT) D = 24' 41" 47.2" L = 11.41' T = 5.71' R = 232.00' -CURB IB-	-CURB IB- PI Sta 10+73.56 Δ = 27° 41' 50.6" (RT) D = 52' 05" 13.5" L = 53.18' T = 27.12' R = 110.00' -CURB IB-	-CURB IB- PI Sta 11+57.33 Δ = 31° 48' 32.9" (RT) D = 114' 35" 29.6" L = 27.76' T = 14.25' R = 50.00'
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-CURB IB- PI Sta 10+05.71 Δ = 2° 49' 07.6" (LT) D = 24' 41" 47.2" L = 11.41' T = 5.71' R = 232.00' -CURB IB-	-CURB IB- PI Sta 10+73.56 Δ = 27° 41' 50.6" (RT) D = 52' 05" 13.5" L = 53.18' T = 27.12' R = 110.00' -CURB IB-	-CURB IB- PI Sta 11+57.33 Δ = 31° 48' 32.9" (RT) D = 114' 35" 29.6" L = 27.76' T = 14.25' R = 50.00'
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-CURB IB- PI Sta 10+05.71 Δ = 2° 49' 07.6" (LT) D = 24' 41" 47.2" L = 11.41' T = 5.71' R = 232.00' -CURB IB-	-CURB IB- PI Sta 10+73.56 Δ = 27° 41' 50.6" (RT) D = 52' 05" 13.5" L = 53.18' T = 27.12' R = 110.00' -CURB IB-	-CURB IB- PI Sta 11+57.33 Δ = 31° 48' 32.9" (RT) D = 114' 35" 29.6" L = 27.76' T = 14.25' R = 50.00'
--	--	---

-CURB IC- PI Sta 10+40.06 Δ = 22° 39' 16.0" (LT) D = 28' 38" 52.4" L = 79.08' T = 40.06' R = 200.00' -CURB IC-	-CURB IC- PI Sta 11+77.6 Δ = 75° 05' 06.8" (LT) D = 113' 50" 10.4" L = 65.96' T = 38.68' R = 50.33'
--	--

-CURB IC- PI Sta 10+40.06 Δ = 22° 39' 16.0" (LT) D = 28' 38" 52.4" L = 79.08' T = 40.06' R = 200.00' -CURB IC-	-CURB IC- PI Sta 11+77.6 Δ = 75° 05' 06.8" (LT) D = 113' 50" 10.4" L = 65.96' T = 38.68' R = 50.33'
--	--

-CURB IC- PI Sta 10+40.06 Δ = 22° 39' 16.0" (LT) D = 28' 38" 52.4" L = 79.08' T = 40.06' R = 200.00' -CURB IC-	-CURB IC- PI Sta 11+77.6 Δ = 75° 05' 06.8" (LT) D = 113' 50" 10.4" L = 65.96' T = 38.68' R = 50.33'
--	--

-CURB IC- PI Sta 10+40.06 Δ = 22° 39' 16.0" (LT) D = 28' 38" 52.4" L = 79.08' T = 40.06' R = 200.00' -CURB IC-	-CURB IC- PI Sta 11+77.6 Δ = 75° 05' 06.8" (LT) D = 113' 50" 10.4" L = 65.96' T = 38.68' R = 50.33'
--	--

MONOLITHIC ISLAND AND SIDEWALK

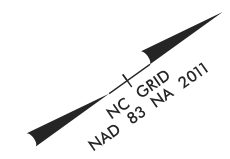
SEE SHEET 2B-2 FOR -CURB IA- PROFILE
SEE SHEET 2B-2 FOR -CURB IB- PROFILE
SEE SHEET 2B-2 FOR -CURB IC- PROFILE
SEE SHEET 2B-2 FOR -CURB ID- PROFILE
SEE SHEET 17 FOR -RDBT- PROFILE

5/14/2019

5/14/99

5/15/2019

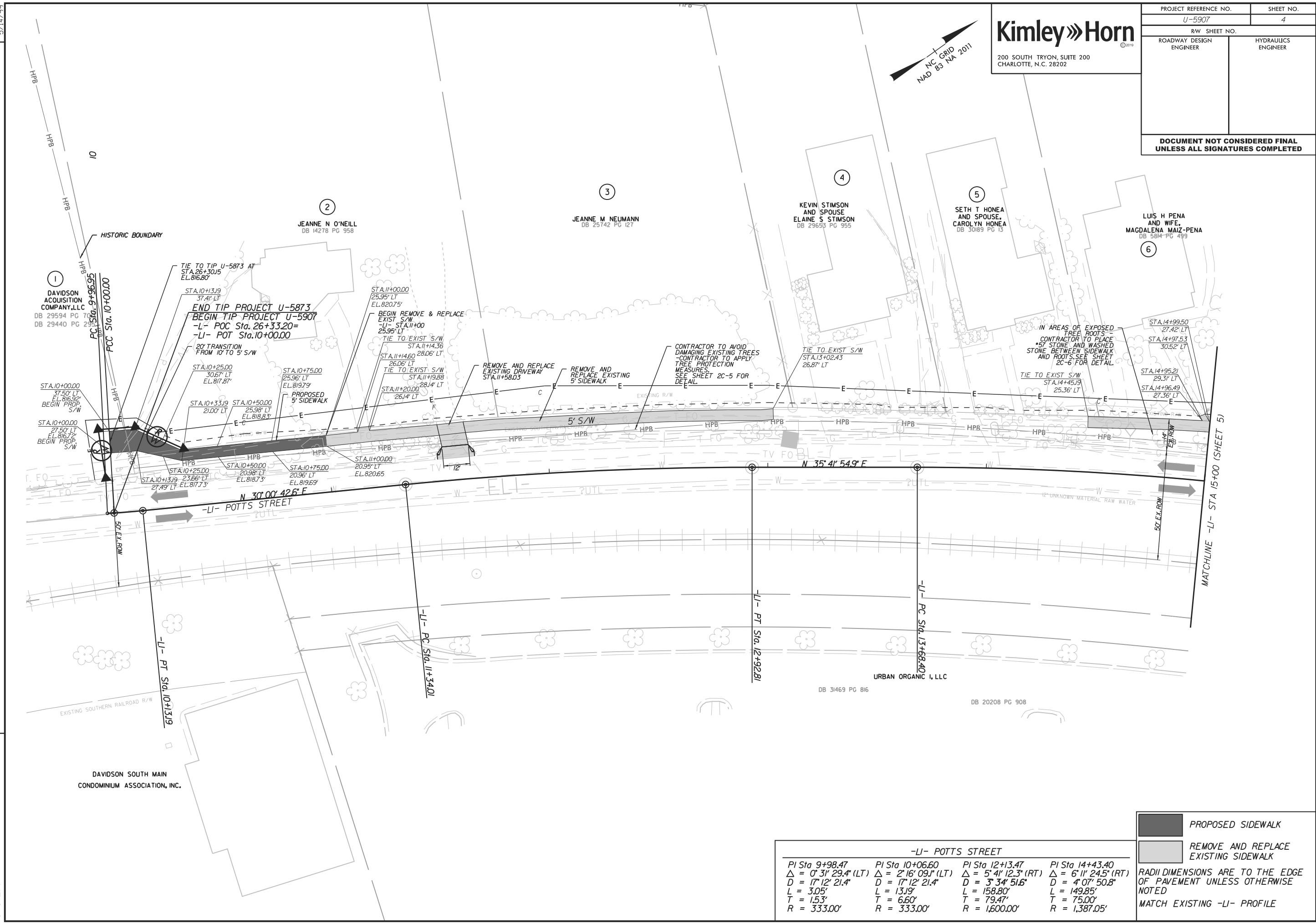
REVISIONS



Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-LI- POTTS STREET

PI Sta 9+98.47	PI Sta 10+06.60	PI Sta 12+13.47	PI Sta 14+43.40
$\Delta = 0' 31' 29.4''$ (LT)	$\Delta = 2' 16' 09.1''$ (LT)	$\Delta = 5' 4' 12.3''$ (RT)	$\Delta = 6' 11' 24.5''$ (RT)
D = 17' 12' 21.4"	D = 17' 12' 21.4"	D = 3' 34' 51.6"	D = 4' 07' 50.8"
L = 3.05'	L = 13.19'	L = 158.80'	L = 149.85'
T = 1.53'	T = 6.60'	T = 79.47'	T = 75.00'
R = 333.00'	R = 333.00'	R = 1,600.00'	R = 1,387.05'

PROPOSED SIDEWALK

REMOVE AND REPLACE EXISTING SIDEWALK

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MATCH EXISTING -LI- PROFILE

MATCHLINE -LI- STA 15+00 (SHEET 5)

DAVIDSON SOUTH MAIN
CONDOMINIUM ASSOCIATION, INC.

URBAN ORGANIC I, LLC
DB 31469 PG 816

DB 20208 PG 908

1
DAVIDSON ACQUISITION
COMPANY, LLC
DB 29594 PG 70
DB 29440 PG 25

2
JEANNE N O'NEILL
DB 14278 PG 958

3
JEANNE M NEUMANN
DB 25742 PG 127

4
KEVIN STIMSON
AND SPOUSE
ELAINE S STIMSON
DB 29650 PG 955

5
SETH T HONEA
AND SPOUSE,
CAROLYN HONEA
DB 30189 PG 13

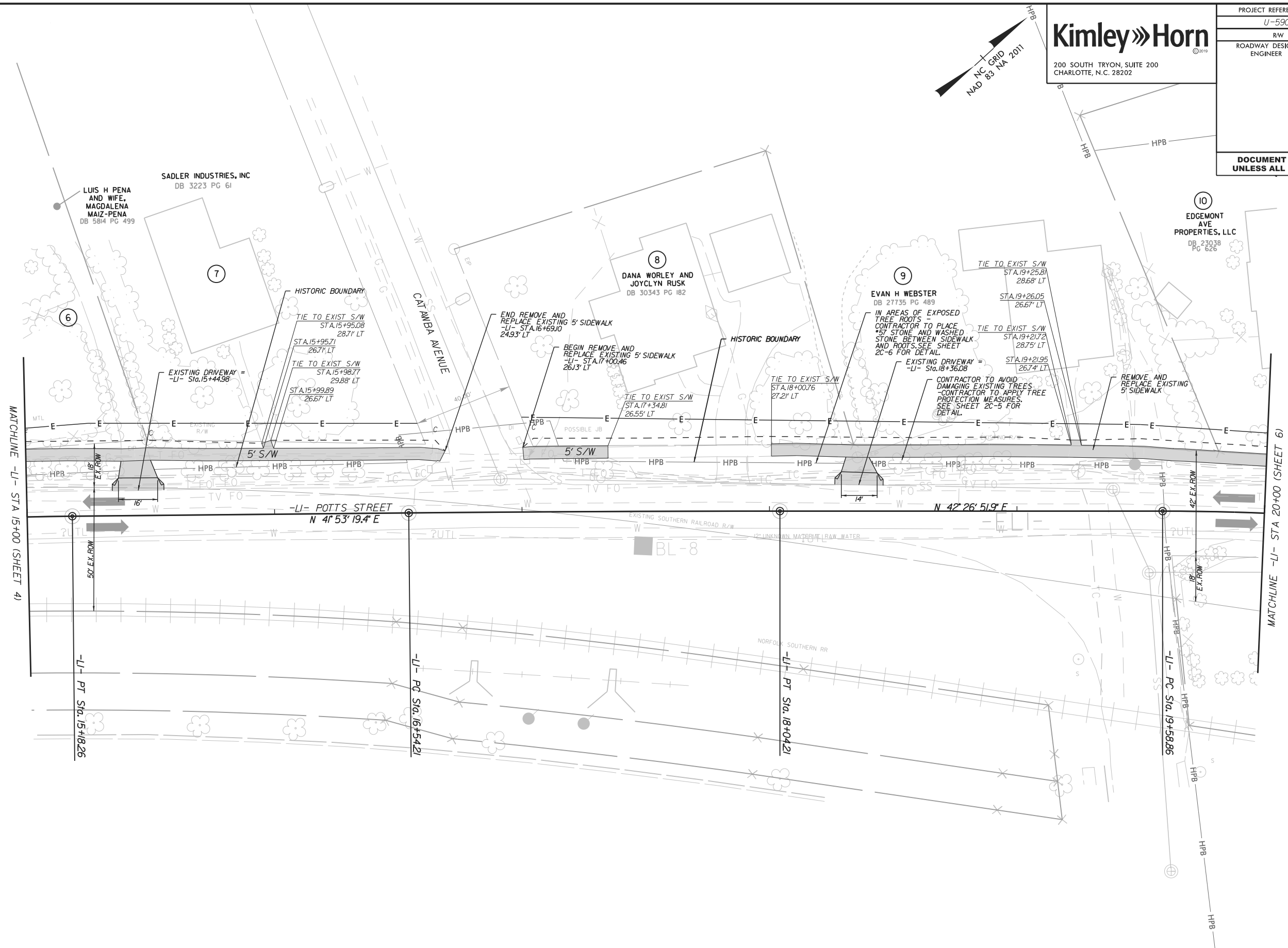
6
LUIS H PENIA
AND WIFE,
MAGDALENA MAIZ-PENA
DB 5814 PG 499

NO.	DESCRIPTION

Kimley»Horn
 200 SOUTH TRYON, SUITE 200
 CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



-LI- POTTS STREET		
PI Sta 14+43.40	PI Sta 17+29.21	PI Sta 19+96.42
Δ = 6' 11" 24.5' (RT)	Δ = 0' 33" 32.4' (RT)	Δ = 4' 18" 07.9' (RT)
D = 4' 07" 50.8"	D = 0' 22" 21.6"	D = 5' 43" 46.5"
L = 149.85'	L = 150.00'	L = 75.09'
T = 75.00'	T = 75.00'	T = 37.56'
R = 1,387.05'	R = 15,374.09'	R = 1,000.00'

REMOVE AND REPLACE EXISTING SIDEWALK

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MATCH EXISTING -LI- PROFILE

5/14/99

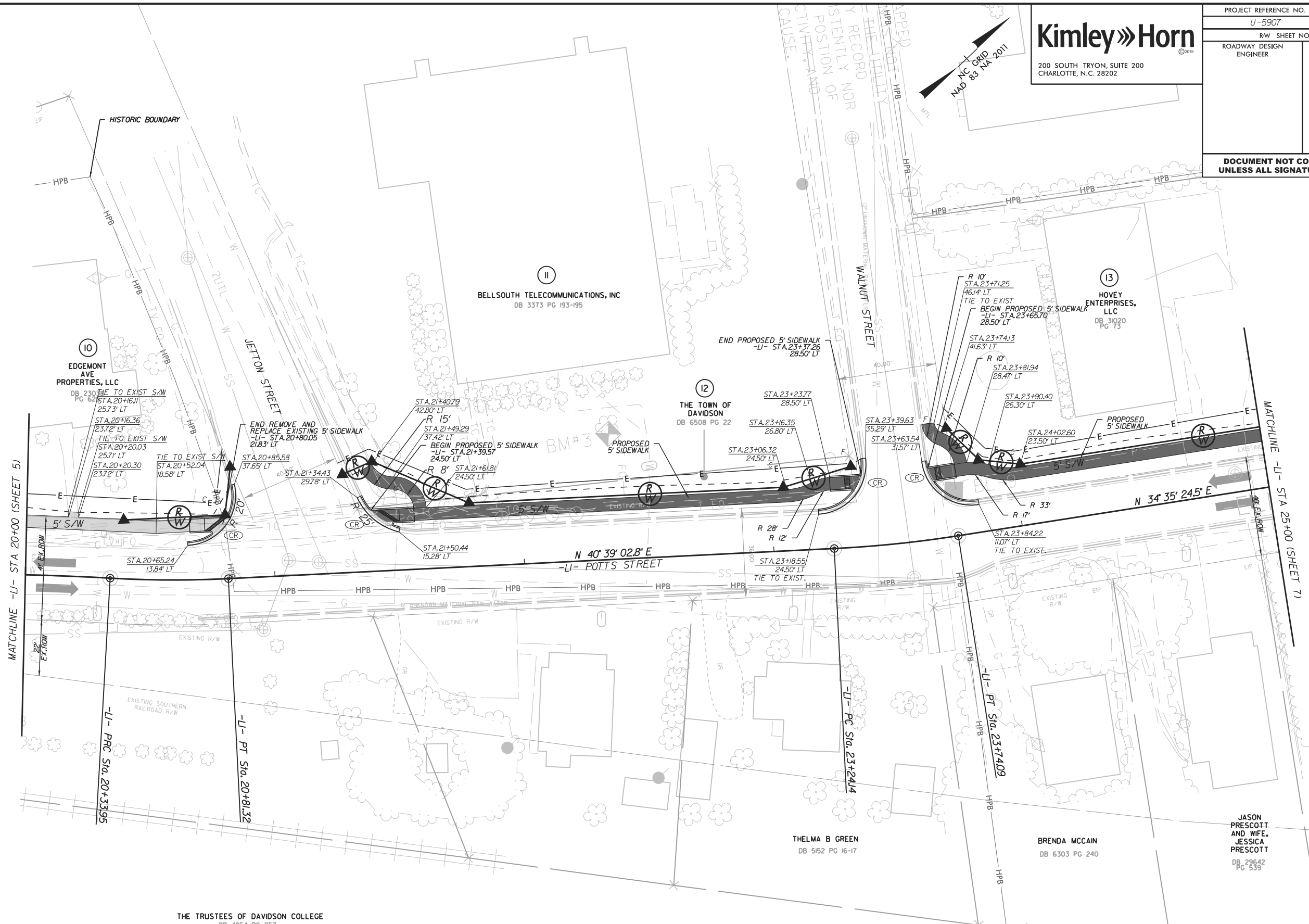
5/15/2019

REVISIONS

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-LI- POTTS STREET		
PI Sta 19+96.42	PI Sta 20+57.65	PI Sta 23+49.14
$\Delta = 4' 18' 07.9''$ (RT)	$\Delta = 6' 05' 57.0''$ (LT)	$\Delta = 6' 03' 38.3''$ (LT)
D = 5' 43' 46.5"	D = 12' 52' 31.6"	D = 12' 07' 57.4"
L = 75.09'	L = 47.37'	L = 49.95'
T = 37.56'	T = 23.71'	T = 25.00'
R = 1,000.00'	R = 445.00'	R = 472.25'

PROPOSED SIDEWALK

REMOVE AND REPLACE EXISTING SIDEWALK

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MATCH EXISTING -LI- PROFILE SEE SHEET 14 FOR -LI- PROFILE

THE TRUSTEES OF DAVIDSON COLLEGE
DB 4954 PG 957

HUBERT O WRIGHT AND WIFE,
RUBY M WRIGHT
DB 9983 PG 792

THELMA B GREEN
DB 5152 PG 16-17

BRENDA MCCAIN
DB 6303 PG 240

JASON PRESCOTT AND WIFE,
JESSICA PRESCOTT
DB 29642 PG 539

THE TOWN OF DAVIDSON
DB 6508 PG 22

BELLSOUTH TELECOMMUNICATIONS, INC
DB 3373 PG 193-195

EDGEMONT AVE PROPERTIES, LLC
DB 2330 PG 62

HOVEY ENTERPRISES, LLC
DB 31020 PG 73

5/14/99

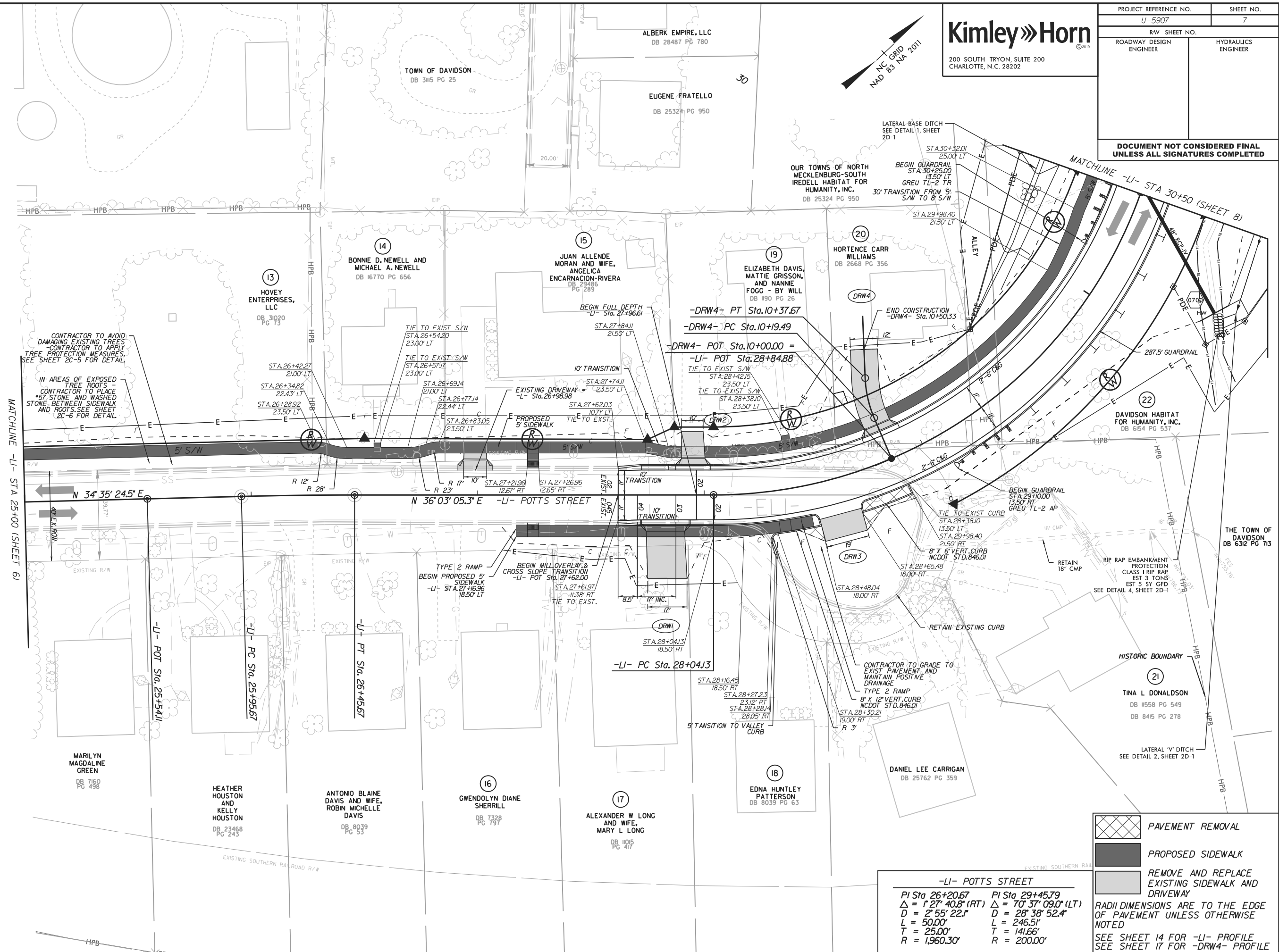
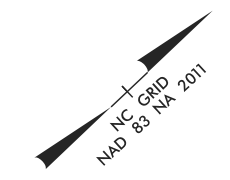
5/15/2019



200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



CONTRACTOR TO AVOID DAMAGING EXISTING TREES - CONTRACTOR TO APPLY TREE PROTECTION MEASURES. SEE SHEET 2C-5 FOR DETAIL.

IN AREAS OF EXPOSED TREE ROOTS - CONTRACTOR TO PLACE 5" STONE AND WASHED STONE BETWEEN SIDEWALK AND ROOTS. SEE SHEET 2C-6 FOR DETAIL.

MATCHLINE -LI- STA 25+00 (SHEET 6)

MATCHLINE -LI- STA 30+50 (SHEET 8)

REVISIONS

	PAVEMENT REMOVAL
	PROPOSED SIDEWALK
	REMOVE AND REPLACE EXISTING SIDEWALK AND DRIVEWAY
RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED	
SEE SHEET 14 FOR -LI- PROFILE	
SEE SHEET 17 FOR -DRW4- PROFILE	

-LI- POTTS STREET	
PI Sta 26+20.67	PI Sta 29+45.79
$\Delta = 1' 27' 40.8''$ (RT)	$\Delta = 70' 37' 09.0''$ (LT)
D = 2' 55' 22.1"	D = 28' 38' 52.4"
L = 50.00'	L = 246.51'
T = 25.00'	T = 141.66'
R = 1,960.30'	R = 200.00'

N 34° 35' 24.5" E

N 36° 03' 05.3" E -LI- POTTS STREET

MARILYN MACDALINE GREEN
DB 7160 PG 498

HEATHER HOUSTON AND KELLY HOUSTON
DB 23468 PG 243

ANTONIO BLAINE DAVIS AND WIFE, ROBIN MICHELLE DAVIS
DB 8039 PG 53

GWENDOLYN DIANE SHERRILL
DB 7328 PG 797

ALEXANDER W LONG AND WIFE, MARY L LONG
DB 11015 PG 417

EDNA HUNTLEY PATTERSON
DB 8039 PG 63

DANIEL LEE CARRIGAN
DB 25762 PG 359

TINA L DONALDSON
DB 1558 PG 549
DB 8415 PG 278

DAVIDSON HABITAT FOR HUMANITY, INC.
DB 6154 PG 537

ELIZABETH DAVIS, MATTIE GRISSON, AND NANNIE FOGG - BY WILL
DB 1190 PG 26

JUAN ALLENDE MORAN AND WIFE, ANGELICA ENCARNACION-RIVERA
DB 29486 PG 289

BONNIE D. NEWELL AND MICHAEL A. NEWELL
DB 16770 PG 656

HOVEY ENTERPRISES, LLC
DB 31020 PG 73

EUGENE FRATELLO
DB 25324 PG 950

ALBERK EMPIRE, LLC
DB 28487 PG 780

HORTENCE CARR WILLIAMS
DB 2668 PG 356

THE TOWN OF DAVIDSON
DB 6312 PG 713

5/14/99

5/15/2019

LORENZO ORTEGA AND WIFE, MARIA ELENA ORTEGA DB 16195 PG 342

MIRELA O. POPA AND HUSBAND, CATALIN H. POPA DB 26648 PG 582

TOWN OF DAVIDSON DB 7996 PG 994

OUR TOWNS OF NORTH MECKLENBURG-SOUTH IREDELL HABITAT FOR HUMANITY, INC. DB 25324 PG 950

HABITAT FOR HUMANITY DB 7900 PG 1

MARJEAN TORRENCE, BERNICE HOUSTON, MILDRED DONALDSON, AND WINNIE MOORE DB 5636 PG 478

JULIA DONALDSON JOHNSON CLINTON LYVONNE DONALDSON DB 4500 PG 935

METROLINA WAREHOUSE, LLC DB 1818 PG 720

DAVIDSON HABITAT FOR HUMANITY, INC. DB 654 PG 537

RAEFORD AND SONS LLC DB 31994 PG 532

BOLA PROPERTIES LLC DB 26738 PG 501

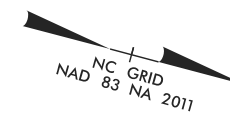
ANGELA BRANDON EDWARDS DB 8915 PG 261

MINNIE MAYHEW DB 3876 PG 530 DB 1449 PG 91

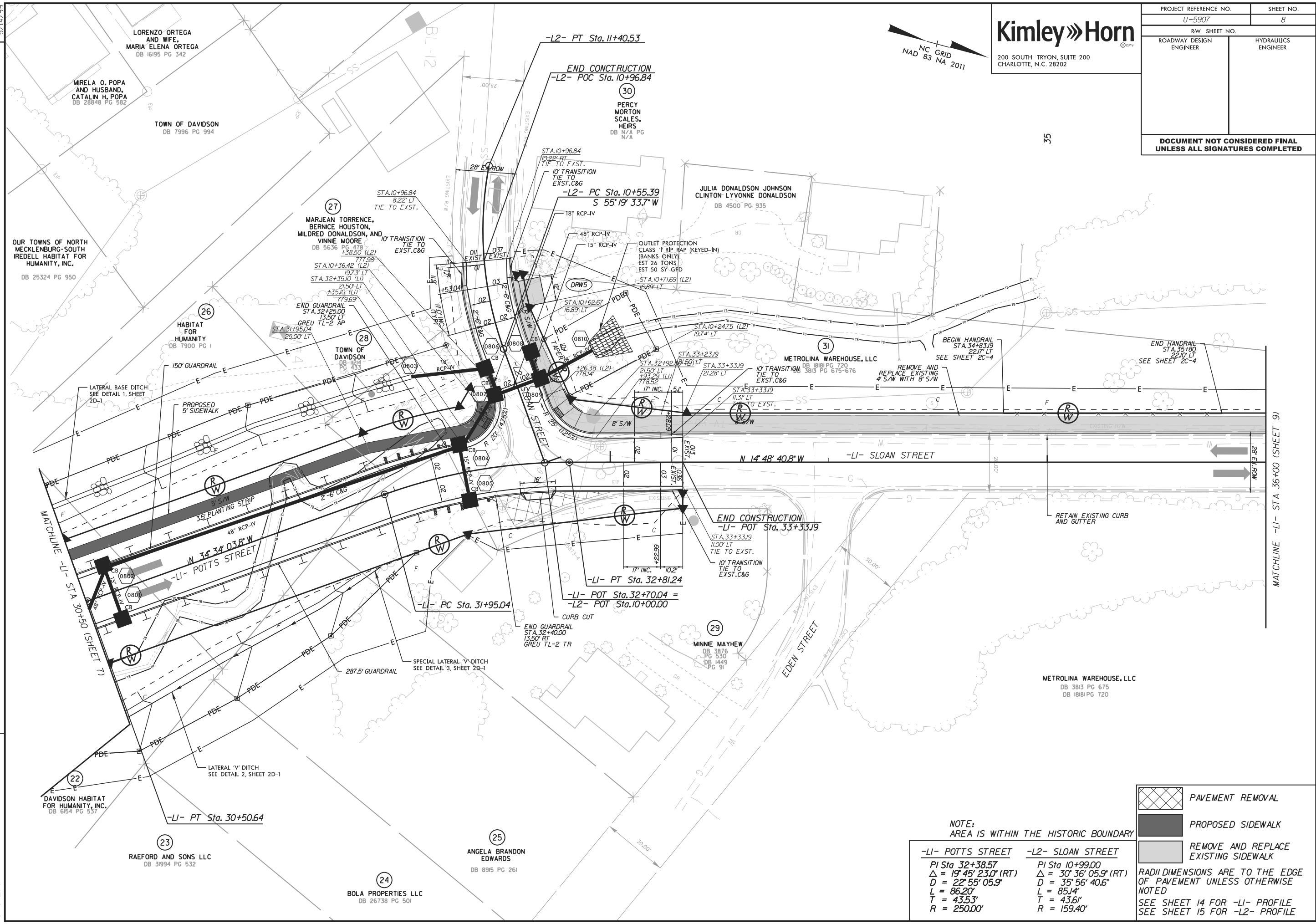
METROLINA WAREHOUSE, LLC DB 3813 PG 675 DB 1818 PG 720

Kimley»Horn

200 SOUTH TRYON, SUITE 200 CHARLOTTE, N.C. 28202



PROJECT REFERENCE NO. U-5907	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -L1- STA 36+00 (SHEET 9)

- PAVEMENT REMOVAL
- PROPOSED SIDEWALK
- REMOVE AND REPLACE EXISTING SIDEWALK

NOTE:
AREA IS WITHIN THE HISTORIC BOUNDARY

-L1- POTTS STREET	-L2- SLOAN STREET
PI Sta 32+38.57	PI Sta 10+99.00
Δ = 19° 45' 23.0" (RT)	Δ = 30° 36' 05.9" (RT)
D = 22° 55' 05.9"	D = 35° 56' 40.6"
L = 86.20'	L = 85.14'
T = 43.53'	T = 43.61'
R = 250.00'	R = 159.40'

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
SEE SHEET 14 FOR -L1- PROFILE
SEE SHEET 15 FOR -L2- PROFILE

5/14/99

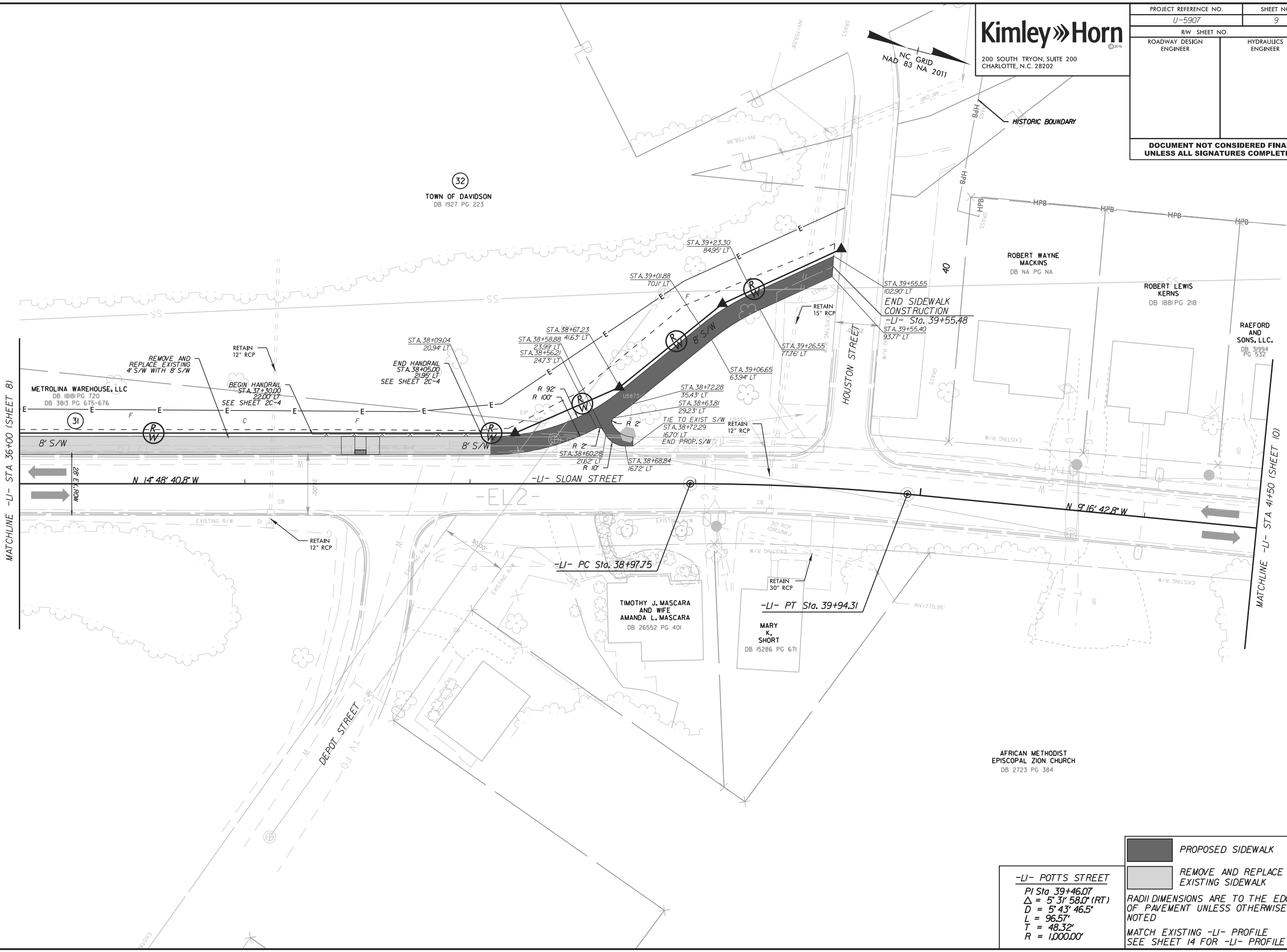
5/15/2019

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5907	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

32
TOWN OF DAVIDSON
DB 1927 PG 223



REVISIONS

MATCHLINE -LI- STA 36+00 (SHEET 8)

MATCHLINE -LI- STA 41+50 (SHEET 10)

AFRICAN METHODIST
EPISCOPAL ZION CHURCH
DB 2723 PG 384

PROPOSED SIDEWALK

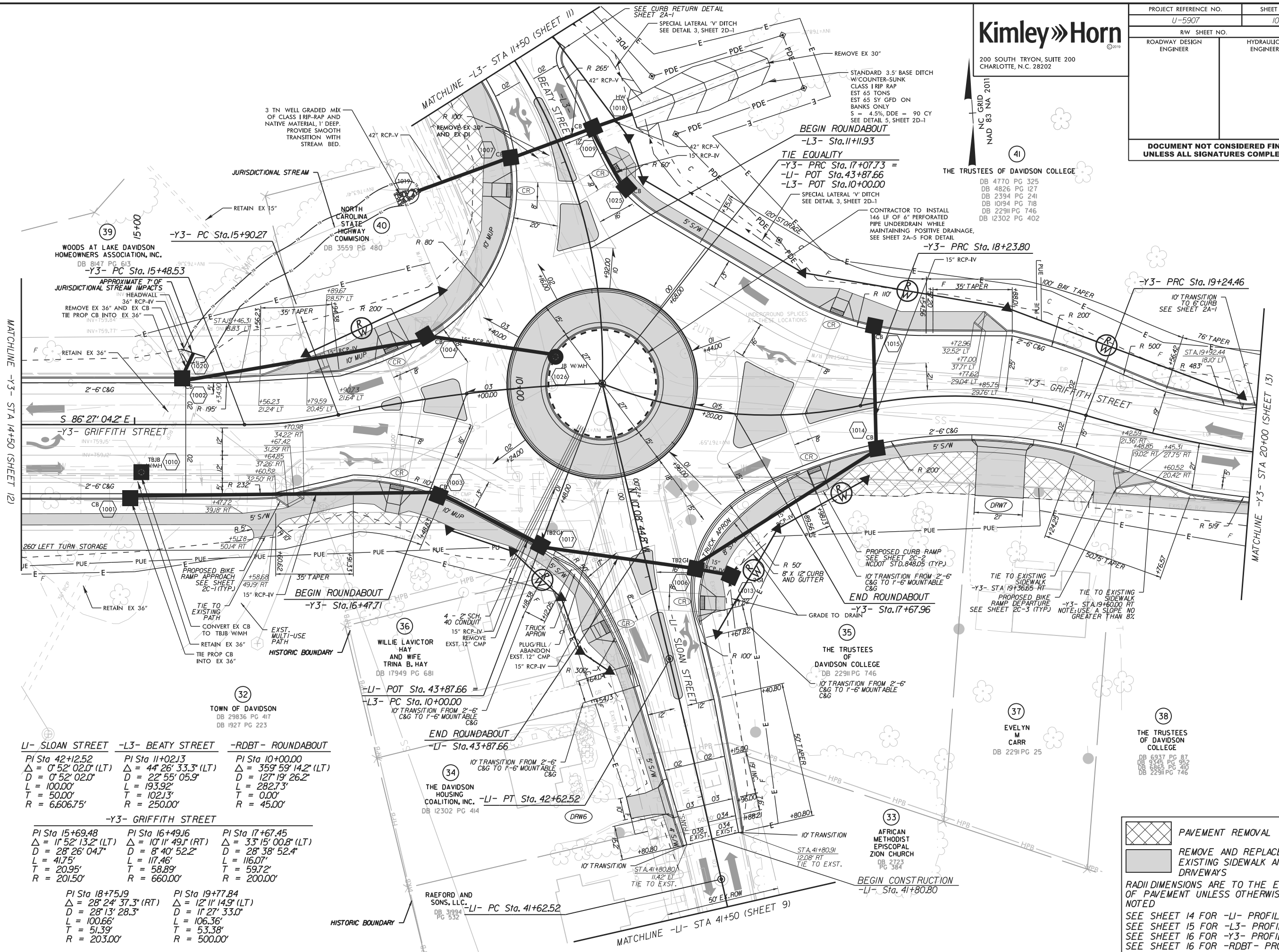
REMOVE AND REPLACE EXISTING SIDEWALK

-LI- POTTS STREET
 PI Sta 39+46.07
 $\Delta = 5^\circ 31' 58.0''$ (RT)
 D = 5' 43' 46.5"
 L = 96.57'
 T = 48.32'
 R = 1,000.00'

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
 MATCH EXISTING -LI- PROFILE
 SEE SHEET 14 FOR -LI- PROFILE

PROJECT REFERENCE NO. U-5907	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



LI- SLOAN STREET	-L3- BEATY STREET	-RDBT- ROUNDABOUT
PI Sta 42+12.52	PI Sta 11+02.13	PI Sta 10+00.00
$\Delta = 0' 52' 02.0''$ (LT)	$\Delta = 44' 26' 33.3''$ (LT)	$\Delta = 359' 59' 14.2''$ (LT)
D = 0' 52' 02.0"	D = 22' 55' 05.9"	D = 127' 19' 26.2"
L = 100.00'	L = 193.92'	L = 282.73'
T = 50.00'	T = 102.13'	T = 0.00'
R = 6,606.75'	R = 250.00'	R = 45.00'

-Y3- GRIFFITH STREET		
PI Sta 15+69.48	PI Sta 16+49.16	PI Sta 17+67.45
$\Delta = 1' 52' 13.2''$ (LT)	$\Delta = 10' 11' 49.1''$ (RT)	$\Delta = 33' 15' 00.8''$ (LT)
D = 28' 26' 04.7"	D = 8' 40' 52.2"	D = 28' 38' 52.4"
L = 41.75'	L = 117.46'	L = 116.07'
T = 20.95'	T = 58.89'	T = 59.72'
R = 201.50'	R = 660.00'	R = 200.00'

PI Sta 18+75.19	PI Sta 19+77.84	
$\Delta = 28' 24' 37.3''$ (RT)	$\Delta = 12' 11' 14.9''$ (LT)	
D = 28' 13' 28.3"	D = 11' 27' 33.0"	
L = 100.66'	L = 106.36'	
T = 51.39'	T = 53.38'	
R = 203.00'	R = 500.00'	

PAVEMENT REMOVAL

REMOVE AND REPLACE EXISTING SIDEWALK AND DRIVEWAYS

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

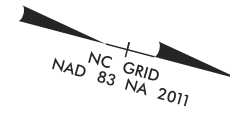
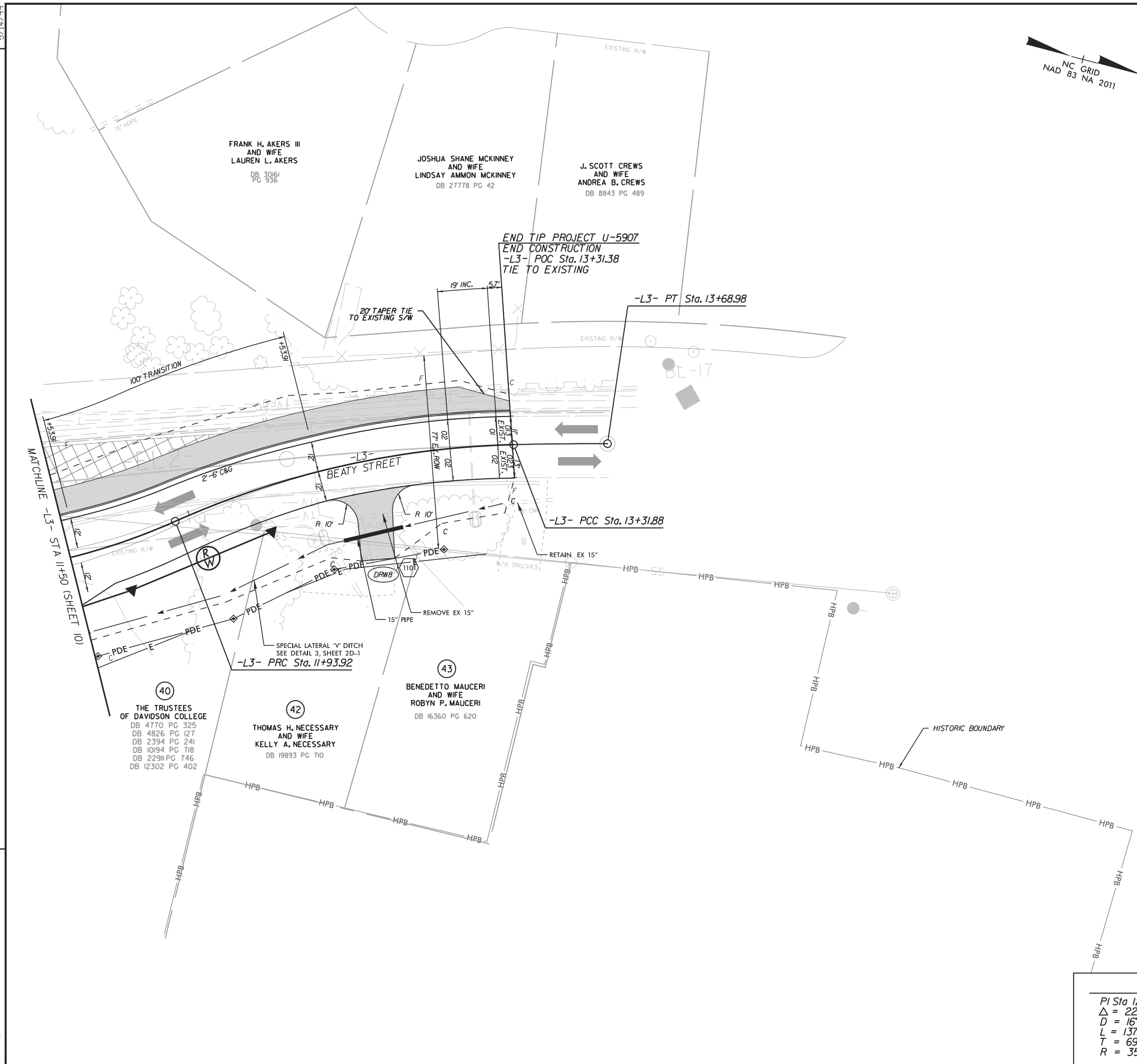
SEE SHEET 14 FOR -LI- PROFILE
SEE SHEET 15 FOR -L3- PROFILE
SEE SHEET 16 FOR -Y3- PROFILE
SEE SHEET 16 FOR -RDBT- PROFILE

REVISIONS

5/14/99

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REVISIONS



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200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. <i>U-5907</i>	SHEET NO. <i>11</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

END TIP PROJECT U-5907
END CONSTRUCTION
-L3- POC Sta. 13+31.38
TIE TO EXISTING

-L3- PT Sta. 13+68.98

-L3- PCC Sta. 13+31.88

-L3- PRC Sta. 11+93.92

MATCHLINE -L3- STA 11+50 (SHEET 10)

40
THE TRUSTEES OF DAVIDSON COLLEGE
DB 4770 PG 325
DB 4826 PG 127
DB 2394 PG 241
DB 10194 PG 718
DB 22911 PG 746
DB 12302 PG 402

42
THOMAS H. NECESSARY AND WIFE
KELLY A. NECESSARY
DB 19893 PG 710

43
BENEDETTO MAUCERI AND WIFE
ROBYN P. MAUCERI
DB 16360 PG 620

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 3, SHEET 2D-1

-L3- BEATY STREET

PI Sta 12+63.81	PI Sta 13+50.43
$\Delta = 22^{\circ} 35' 05.0''$ (RT)	$\Delta = 1^{\circ} 46' 17.6''$ (RT)
D = 16' 22' 12.8"	D = 4' 46' 32.3"
L = 137.96'	L = 37.10'
T = 69.89'	T = 18.55'
R = 350.00'	R = 1,199.75'

- PAVEMENT REMOVAL
- REMOVE AND REPLACE EXISTING SIDEWALK AND DRIVEWAY

RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
SEE SHEET 15 FOR -L3- PROFILE

5/14/99

5/15/2019

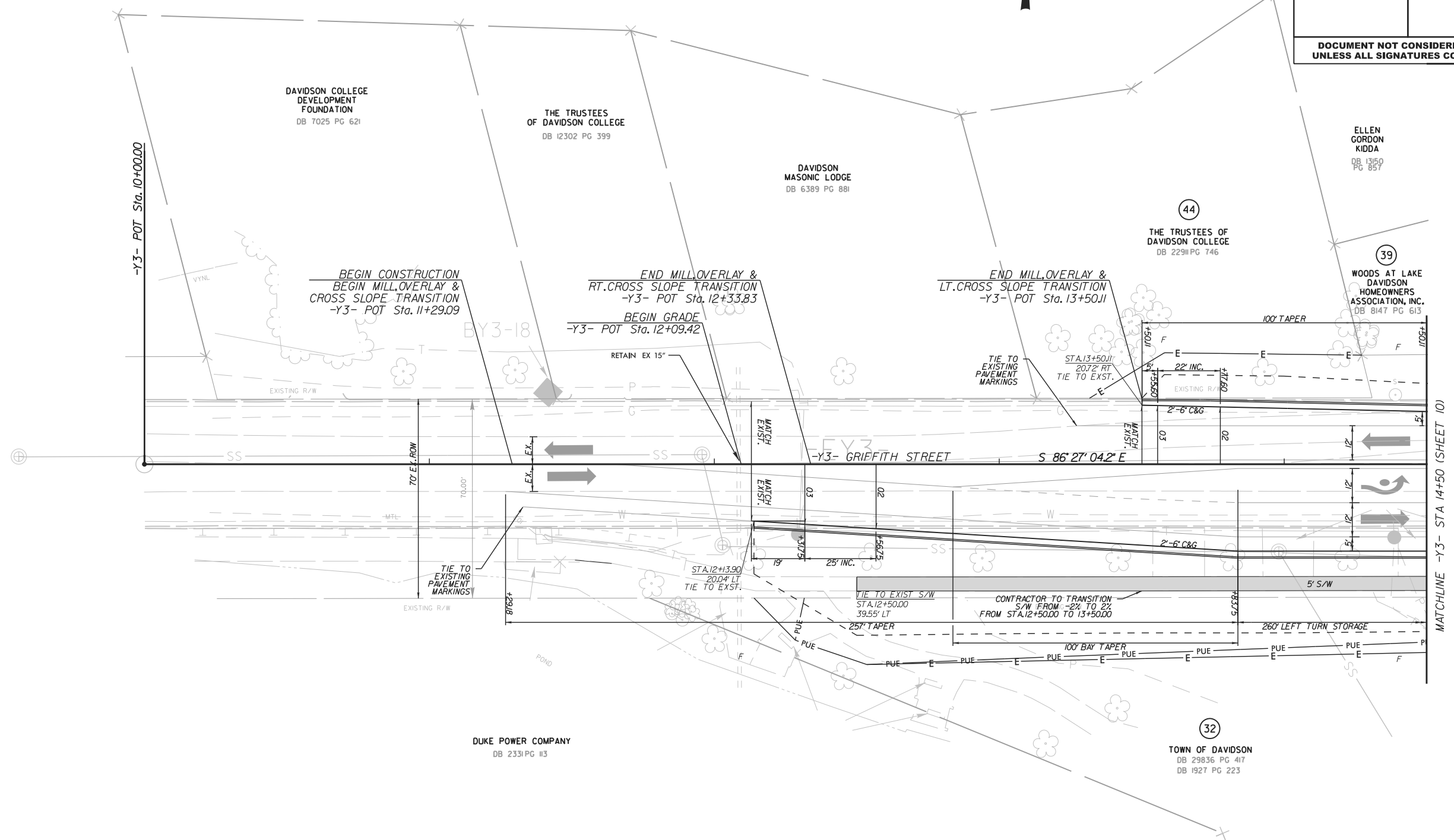
REVISIONS



Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.		SHEET NO.	
U-5907		12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



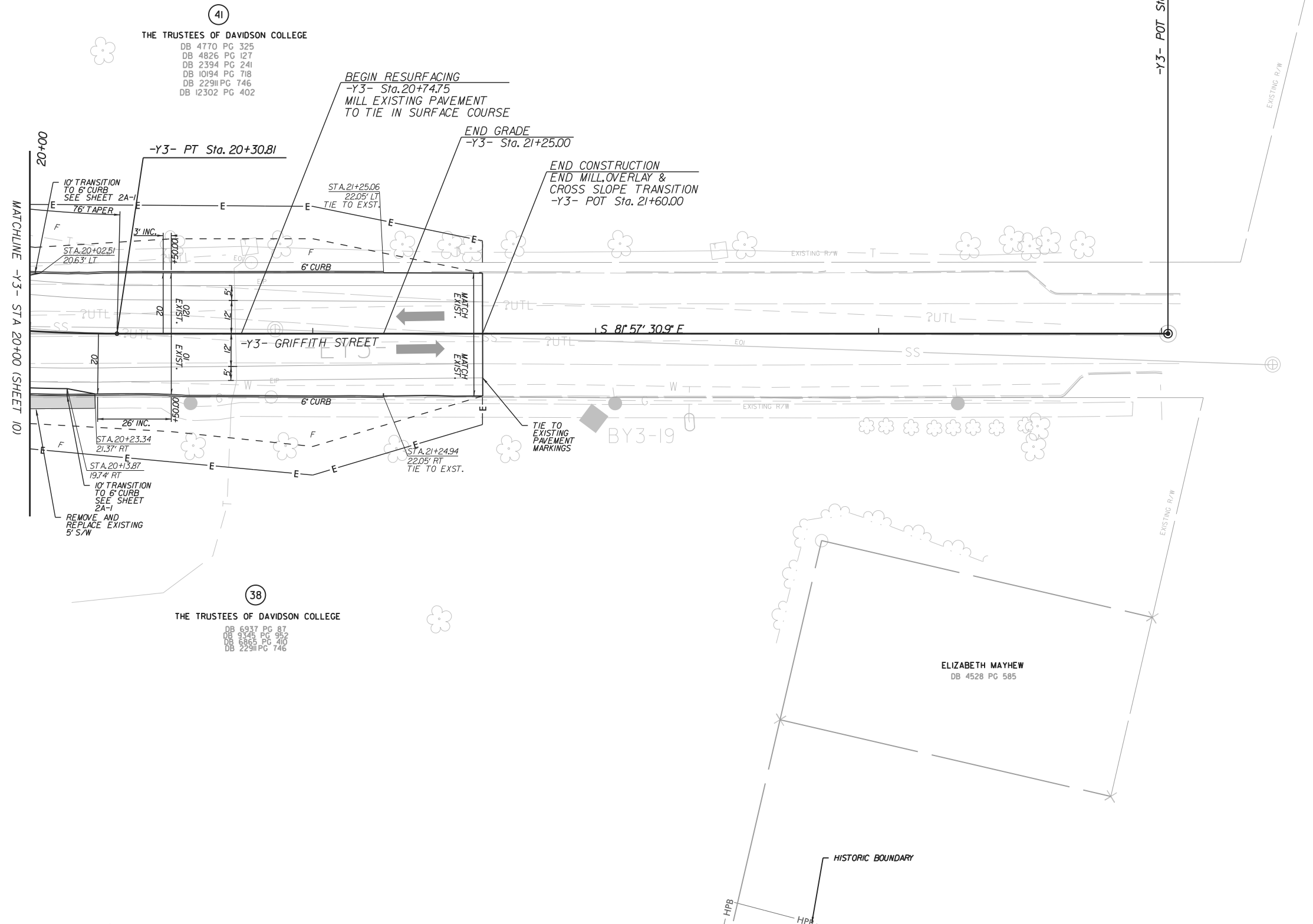
RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
SEE SHEET 16 FOR -Y3- PROFILE

5/14/99

5/15/2019

REVISIONS

PROJECT REFERENCE NO. <i>U-5907</i>	SHEET NO. <i>13</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



RADI DIMENSIONS ARE TO THE EDGE
OF PAVEMENT UNLESS OTHERWISE
NOTED
SEE SHEET 16 FOR -Y3- PROFILE

Appendix B
Historical Environmental Documents



January 3, 2018

Mr. Jordan Garrard
On-Scene Coordinator
U.S. Environmental Protection Agency (EPA), Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: Final Davidson Asbestos Removal Action Report
Davidson, Mecklenburg County, North Carolina
EPA Contract No. EP-S4-14-03 (START IV, Region 4)
Technical Direction Document (TDD) No. TT-01-071**

Dear Mr. Garrard:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) submits the enclosed final removal action report for the Davidson Asbestos site in Davidson, Mecklenburg County, North Carolina. This report summarizes removal, restoration, and multimedia sampling activities conducted from May 8, 2017, through September 22, 2017.

If you have any questions about the enclosed report, please call me (Paul Prys) at (678) 775-3106 or Andrew Johnson at (678) 775-3100.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Prys II', with a stylized flourish at the end.

Paul E. Prys II
Tetra Tech START IV Project Manager

A handwritten signature in black ink, appearing to read 'Andrew F. Johnson', with a large, circular flourish at the end.

Andrew F. Johnson
Tetra Tech START IV Program Manager

Attachments (2)

cc: Katrina Jones, EPA Project Officer
Angel Reed, Tetra Tech START IV Document Control Coordinator

FINAL DAVIDSON ASBESTOS REMOVAL ACTION REPORT

**DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA**

Revision 0

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4, Emergency Response, Removal, and Prevention Branch
61 Forsyth Street, SW, 11th Floor
Atlanta, GA 30303**

Prepared by

**Tetra Tech Inc.
Superfund Technical Assessment and Response Team Region 4
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096**



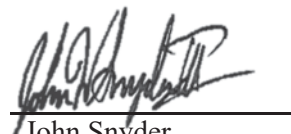
Contract No.	:	EP-S4-14-03
TDD No.	:	TT-01-071
Date Prepared	:	January 3, 2018
EPA OSC	:	Mr. Jordan Garrard
Telephone No.	:	(404) 562-8642
START IV Project Manager	:	Paul E. Prys II
Telephone No.	:	(678) 775-3106

Prepared by



Paul E. Prys II
Tetra Tech START IV
Project Manager

Reviewed by



John Snyder
Tetra Tech START IV
Technical Reviewer

Approved by



Andrew F. Johnson
Tetra Tech START IV
Program Manager

CONTENTS

<u>Section</u>	<u>Page</u>
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2.0 SITE BACKGROUND.....	1
2.1 SETTING.....	1
2.2 SITE HISTORY.....	2
3.0 SITE REMOVAL AND RESTORATION ACTIVITIES	3
3.1 SITE REMOVAL ACTIVITIES	4
3.2 SITE RESTORATION ACTIVITIES	4
3.3 WASTE DISPOSAL ACTIVITIES.....	5
4.0 MULTI-MEDIA SAMPLING AND ANALYTICAL RESULTS	5
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APPENDICES

Appendices

A	FIGURES
B	TABLES
C	PHOTOGRAPHIC LOG
D	LOGBOOK NOTES
E	REMOVAL ACTION STATUS REPORTS
F	ASBESTOS CERTIFICATIONS
G	MULTI-MEDIA SAMPLING SCRIBE DATABASE

ATTACHMENTS

Attachment

1	LABORATORY DATA PACKAGES
2	LABORATORY ACCREDITATION CERTIFICATES

1.0 INTRODUCTION

This report was prepared under Technical Direction Document (TDD) No. TT-01-071, which the U.S. Environmental Protection Agency (EPA), Region 4, assigned to the Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) under Contract No. EP-S4-14-03. The overall scope of this TDD, monitored by On-Scene Coordinator (OSC) Jordan Garrard, was to provide technical assistance and conduct multimedia sampling at the Davidson Asbestos site (the Site) in Davidson, Mecklenburg County, North Carolina. Additional assignments under this TDD included providing data analysis and management; project management, and preparing a final report summarizing removal, restoration, and multimedia sampling that began on May 8, 2017 and concluded on September 22, 2017.

The remainder of this report for the site is organized as follows:

- Section 2.0 presents site background information, including the site setting and history.
- Section 3.0 discusses removal action activities, including asbestos-containing materials (ACM) and associated asbestos-contaminated soil, restoration of parcels, and waste disposal.
- Section 4.0 discusses the multi-media sampling and analytical results collected from May 8 through August 22, 2017.
- Section 5.0 provides a summary for the removal action report.
- Section 6.0 provides references.
- Figures are provided in Appendix A.
- Analytical results tables for multi-media sampling are contained in Appendix B.
- The photographic log of site activities is contained in Appendix C.
- Field logbook notes are contained in Appendix D.
- Removal action status reports for each parcel are provided in Appendix E.
- The Tetra Tech asbestos training certification documentation is provided in Appendix F.
- The Scribe database containing the multi-media sampling data is provided in Appendix G.
- The laboratory data packages are provided in Attachment 1.
- The laboratory accreditation certificates are provided in Attachment 2.

2.0 SITE BACKGROUND

This section describes the site background, including its history and general setting.

2.1 SETTING

The Site is composed of 32 community and residential parcels located north, west, and south of the former asbestos mill located at 219 Depot Street in Davidson, Mecklenburg County, North Carolina. The residential parcels vary in size; the coordinates for the Site (as measured from the approximate center of

the former asbestos mill) are latitude 35.500363 degrees north and longitude 80.850329 degrees west. The former asbestos mill is surrounded by a mix of commercial and residential parcels to the north, commercial parcels to the east, and residential neighborhoods to the south and west. The nearest school, Davidson College, is located approximately 700 feet east of the Site. The nearest daycare center, Davidson-Cornelius Day Care Center, is located about 0.25 mile southwest of the Site. Figures 1 and 2 in Appendix A depict the site location and general site layout with the asbestos removal parcels identified.

2.2 SITE HISTORY

The Site was first developed around 1890 and was occupied by numerous industrial operations, including the Carolina Asbestos Company, which manufactured asbestos shingles on the Site from the 1930s to around 1960. Asbestos tailings and other asbestos-related wastes generated by the Carolina Asbestos Company reportedly were buried in a low depression (disposal area) on the western side of the Site (Ref. 1).

In February 1984, a resident found her child covered in “a whitish material” after playing in an open portion of the Site. The resident filed a complaint with the Mecklenburg County Department of Environmental Health (MCDEH). MCDEH collected 66 surface and shallow-subsurface soil samples at and in the vicinity of the Site: 62 samples on site and four samples off site. Analytical results indicated 61 of the on-site samples and all four of the off-site samples contained asbestos concentrations greater than 1 percent. MCDEH, after finding asbestos, required the then-owner to take actions to address the exposure risk associated with the Site. The parcel owner closed the disposal pond by covering it with compacted layers of soil and topped with a vegetative ground cover or capped with an asphalt parking lot. In July 1984, the MCDEH concluded that the Site complied with its requirements (Ref. 1).

In February 2002, MACTEC completed a subsurface asbestos investigation and advanced 36 borings on the Site as part of a Brownfields assessment. Based on the results of the borings, MACTEC estimated approximately 2,100 to 2,300 cubic yards of ACM were buried on the Site (Ref. 1).

In 2015, a potential developer submitted a Brownsfields Property Application and Redevelop Now application to the North Carolina Department of Environmental Quality (NCDEQ) Brownsfield Program for review, and the project was later deemed eligible. On behalf of the potential developer, Terracon collected 44 soil samples from 19 locations on the Site. Analytical results indicated that 26 of the samples contained concentrations of chrysotile asbestos at 1 percent or greater and the depth of the ACM

ranged from 1 to 10 feet below ground surface (bgs). The potential developer submitted a concept plan to NCDEQ for removing a portion of the ACM-impacted soil, installing a membrane, importing clean fill dirt, and developing the parcel (Ref. 1).

From November 1, 2016, through May 16, 2017, EPA Region 4 assessed the neighborhoods adjacent to the Site. Tetra Tech START sub-divided 93 parcels based on size, orientation, and use and collected 332 composite surface and subsurface soil samples. Analytical results for 39 of those parcels indicated asbestos at “Trace” amounts in 50 of the samples and at 0.25 percent to 1.0 percent in 18 of the samples. Soil samples reported as “Trace” indicated that the laboratory observed asbestos fibers in the sample, but at levels lower than the reporting limit of 0.25 percent asbestos. Because of the inherent uncertainty associated with the “Trace” samples, the “Trace” samples were submitted to a subcontract laboratory for fluidized bed analysis (FBA), and the results were reviewed by EPA Region 4’s Scientific Support Section (SSS). Based on the FBA results, the SSS concluded that none of the areas sampled with “Trace” results presented enough risk to qualify for a removal action.

START also collected sediment samples from two locations along the waterbody receiving runoff from the former mill located on the western side of Sloan Street, and no asbestos was detected in either sample. Tetra Tech START conducted ambient air sampling around the former mill because of concerns over the possible exposure of nearby residents to airborne asbestos. No asbestos was detected in any of the samples (Ref. 1).

3.0 SITE REMOVAL AND RESTORATION ACTIVITIES

From May 8 to September 22, 2017, EPA tasked the Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC. (ER), to conduct removal and disposal of ACM and asbestos-contaminated soil and restoration of parcels that met the EPA Region 4 site-specific criteria for removal based on a recent site assessment. During this time, EPA tasked Tetra Tech START to provide personnel accredited in the State of North Carolina as asbestos inspectors, air monitors, and supervising air monitors to provide technical support, perform visual inspections during removal activities, conduct multi-media sampling, and provide photographic and logbook documentation of site conditions and removal and restoration activities. A summary of Site activities conducted during this time is discussed in the following sections; the removal action status reports for each parcel are located in Appendix E.

3.1 SITE REMOVAL ACTIVITIES

On May 8, 2017, ER began removing ACM and asbestos-contaminated soil from 32 parcels located in neighborhoods adjacent to and near the former mill site. ER used tracked excavators to remove the ACM and asbestos-contaminated soil to a depth of 1 foot bgs in the lawn of each parcel and to a depth of up to 3 inches bgs beneath the tree lines and around shrubs to minimize damage to their root systems. Hand tools were used to remove soil from around the trees and shrubs, as well as along residential drip lines, in areas not accessible to the excavators. ACM and asbestos-contaminated soil were loaded into dump trucks and transported to the staging area located at 206 Watson Street in Davidson, North Carolina, also known as the Depot Street staging area (DSSA), for future disposal. During removal activities, ER wetted the ACM and asbestos-contaminated soil with water using hoses connected to spigots located on an excavated parcel, a water buffalo, or a water truck to minimize the generation of airborne dust potentially contaminated with residual asbestos fibers.

As the areas of each parcel were excavated, a Tetra Tech START member, who is a State of North Carolina-accredited asbestos inspector and air monitor, visually inspected each excavated area. If ACM was still visible in an excavated area, ER continued removing soil until ACM was no longer visible or to a maximum depth of 3 feet bgs. ER used shovels to remove additional soil from under tree and shrub root systems and residential drip lines until ACM was no longer visible or accessible. ACM was visible under driveways and road surfaces on some parcels. ER did not remove additional soil along these areas to prevent destabilization of the footing and damaging the driveway or road. Areas where ACM was allowed to remain were documented photographically and recorded in the logbook (see Appendices C and D).

3.2 SITE RESTORATION ACTIVITIES

From May 8 through September 22, 2017, ER restored the excavated areas at each of the 32 parcels where EPA had conducted removal actions. Before the excavated areas were backfilled, ER placed orange snow fencing along the surface of the excavated areas except under the tree lines and shrubs. ER posted red “Danger Asbestos Hazard” tape over the snow fencing for those areas where ACM was still visible. The fencing and tape were placed in the excavated areas as a marker layer to inform those involved in future excavations of the depth of the EPA removal activities and potential asbestos hazards. ER used skid steers to spread backfill soil and a roller to compact the backfill. Depending on the previous surface of the excavated areas, ER installed either topsoil or rock on top of the backfill using a skid steer. Sod was

installed in the lawn and mulch was spread under the tree lines and shrubs. Crushed gravel was installed in the parking lot and driveway and compacted with a roller. ER watered the sod at each parcel for a 2-week period using sprinklers attached to a spigot located at the residence, water buffalo, or water truck.

3.3 WASTE DISPOSAL ACTIVITIES

From May 15 through August 22, 2017, ER loaded the ACM and asbestos-contaminated soil from the staging area located at 206 Watson Street, also known as the DSSA, into dump trucks lined with two layers of 0.006-inch (6-mil) plastic sheeting. Prior to transport, the plastic sheeting was folded “burrito style” and sealed with spray glue. U.S. Department of Transportation (DOT) asbestos placards were affixed on the outside of each dump truck. Approximately 6,204 tons of asbestos-contaminated waste was loaded and transported to Anson County Landfill located in Polkton, North Carolina, and to Charlotte Motor Speedway Landfill located in Concord, North Carolina. Both are State of North Carolina-approved asbestos landfills.

4.0 MULTI-MEDIA SAMPLING AND ANALYTICAL RESULTS

This section discusses the multi-media sampling and analytical results obtained for perimeter air samples, post-removal soil samples, and bulk material samples collected at the Site from May 8 to August 22, 2017. The samples were collected by a Tetra Tech START member, who is a State of North Carolina-certified asbestos inspector and air sampler under the supervision of a State of North Carolina-certified supervising air monitor (SAM), accredited under 40 Code of Federal Regulations (CFR) 763 (Ref. 2) and 10A NCAC 41C .0600 (Ref. 3). All samples were analyzed by CEI Labs, Inc., located in Cary, North Carolina, using one of the following methods, as appropriate:

- National Institute of Occupational Safety and Health (NIOSH) Method 7402 (Ref. 4).
- California Environmental Protection Agency, Air Resources Board (ARB) Method 435 (CARB 435) (Ref. 5).
- EPA Method 600/R-93/116 and/or EPA Method 600/M4-82-020 (Refs. 6 and 7).

CEI Labs is accredited through the American Industrial Hygiene Association (AIHA) and the National Voluntary Laboratory Accreditation Program (NVLAP) (see Attachment 2).

4.1 SITE PERIMETER AIR SAMPLING AND ANALYTICAL RESULTS

From May 8 through August 22, 2017, Tetra Tech START conducted perimeter air sampling around each parcel during removal and disposal activities (see figures and tables in Appendix E), as weather permitted. Perimeter air sampling locations at each parcel were selected based on wind direction and removal activities. Tetra Tech START collected the perimeter air samples using Gillian AirCon 2 high volume air sampling pumps fitted with 25-millimeter (mm), 0.8-micrometer (μm) mixed cellulose ester (MCE) filter cassettes. Air samples were collected approximately 4 to 5 feet above the ground surface (to represent exposures in the breathing zone) during removal activities. Filter cassettes were placed in an approximate 45-degree downward position with the inlet caps of the filter cassettes removed (open-faced) during sampling. The air samples were collected at a flow rate resulting in collection of at least 3,850 liters of air during each work shift. (Note: Some air samples were collected at a volume of less than 3,850 liters of air during a work shift because of battery malfunctions or inclement weather, but were submitted for analysis.) The flow rates of the fully assembled air sampling trains were calibrated and recorded before and after samples were collected using a Mesa Labs Defender 510 Drycal rotameter.

The air samples were submitted to CEI Labs for Transmission Electron Microscopy (TEM) analysis using NIOSH Method 7402 (Ref. 4) in accordance with the guidelines established in 29 CFR 1926.1101 (Ref. 8). The analytical results measured the concentration of airborne asbestos fibers in the air samples, reported as a Phase Contrast Microscopy-equivalent (PCME), and used to evaluate the effectiveness of engineering and safety controls in preventing off-site migration of asbestos fibers during removal activities at each parcel and to initiate corrective actions as appropriate. EPA established the air asbestos action level for the baseline residential exposure level of 0.001 fibers per cubic centimeter (f/cc) PCME in accordance with Office of Solid Waste and Emergency Response (OSWER) Directive #9200.0-68 (Ref. 9). The TEM analytical results indicated that asbestos fiber concentrations in 175 of the 186 perimeter air samples collected were less than the limit of detection and did not exceed the air asbestos action level of 0.001 f/cc for the PCME (see Table 1 in Appendix B). The TEM analytical results also indicated that eight of the samples contained asbestos fibers and three of the samples could not be analyzed because of particulate overloading. Those analytical results are summarized as follows:

- On June 9, 2017, sample DA-DSSA-AA-L01-060917 detected 1 actinolite asbestos fiber and the PCME result below the 0.001 f/cc action level.
- On June 23, 2017, sample DA-DSSA-AA-L01-062317 detected 1 actinolite asbestos fiber and the PCME result was below the 0.001 f/cc action level.

- On July 20, 2017, sample DA-DSSA-AA-L01-072017 detected 1 chrysotile asbestos fiber and sample DA-DSSA-AA-L07-072017 detected 2 chrysotile asbestos fibers. The PCME results were 0.0025 f/cc and 0.0012 f/cc and exceeded the 0.001 f/cc action level for both samples.
- On August 4, 2017, sample DA-DSSA-AA-L01-080417 detected 1 chrysotile asbestos fiber and sample DA-DSSA-AA-L07-080417 detected 1 actinolite asbestos fiber. The PCME results were below the 0.001 f/cc action level for both samples.
- On August 18, 2017, sample DA-DSSA-AA-L06-081817 detected 1 tremolite asbestos fiber, and the PCME result was below the 0.001 f/cc action level.
- On August 22, 2017, sample DA-DSSA-AA-L01-082217 detected 1 crocidolite asbestos fiber. The PCME result was 0.0014 f/cc and exceeded the 0.001 f/cc action level.
- On July 14 and August 2, 2017, samples DA-DSSA-AA-L02-071417, DA-DSSA-AA-L02-071417, and DA-235ES-AA-L03-080217 could not be analyzed because of particulate overloading.

The EPA and ER was notified each time asbestos fibers were detected or a sample could not be analyzed. In response to these results, ER increased wetting to reduce dust levels generated during removal and disposal.

4.2 POST-REMOVAL SOIL SAMPLING AND ANALYTICAL RESULTS

From May 24 through August 22, 2017, Tetra Tech START conducted post-removal soil sampling at each of the removal parcels to document conditions at the base of the excavation prior to restoration. Tetra Tech START collected 35 composite soil samples from 32 excavated parcels, with aliquots typically collected over a period of time based on the progression of removal and restoration activities. Each sample was collected to a depth of 2 inches below the base of the excavation using a stainless steel spoon and stored in a 1-gallon resealable plastic bag. Each sample was placed in a disposable aluminum pan, thoroughly homogenized, placed into a resealable 1-quart plastic bag, and submitted to CEI Labs for analysis via CARB 435 (Ref. 9). Analytical results ranged from no asbestos detected to 0.75 percent chrysotile asbestos (see Table 2 in Appendix B).

4.3 BULK MATERIAL SAMPLING AND ANALYTICAL RESULTS

On June 6 and July 17, 2017, Tetra Tech START collected bulk material samples from two residences located near the former mill. The bulk samples were submitted to CEI Labs for analysis via polarized light microscopy (PLM) in accordance with 40 CFR 763 (Ref. 2) and EPA Test Method 600/R-93/116 or EPA Method 600/M4-82-020 (Refs. 6 and 7). Bulk material sampling and analytical results are discussed in following paragraphs.

On June 6, 2017, Tetra Tech START collected five bulk material samples from and around the exterior of the residence located at 103 Sloan Street, Davidson, North Carolina (see Figure 3 in Appendix A). The bulk material samples were composed of troweled-on white plaster material, gray exterior caulking, and white exterior caulking. Analytical results indicated no asbestos was detected in any of the bulk material samples (see Table 3 in Appendix B).

On July 17, 2017, Tetra Tech START collected one bulk material sample from a gray, clay-like, fibrous material found in the excavated area at the residence located at 201 Eden Street, Davidson, North Carolina (see Appendix E). Analytical results indicated the bulk material sample contained 65 percent chrysotile asbestos (see Table 3 in Appendix B).

5.0 SUMMARY

From May 8 to September 22, 2017, EPA and ER conducted removal and restoration at 32 parcels located in neighborhoods around the former mill site. The removal included excavation and disposal of ACM and asbestos-contaminated soil. Restoration included installation of snow fencing and asbestos hazard tape marker layer in the excavated areas and backfill, topsoil, sod, mulch, and rock, depending on the surface before excavation. Sod was watered for 2 weeks in those areas where sod was installed.

From May 8 through August 22, 2017, Tetra Tech START collected multi-media samples, including perimeter air samples, post-removal soil samples, and bulk material samples. The analytical results are summarized as follows:

- Analytical results for the 186 perimeter air samples collected indicated the following results: 175 samples had asbestos fiber concentrations less than the limit of detection and did not exceed the air asbestos action level of 0.001 f/cc; five samples showed the presence of asbestos, but the asbestos fiber concentrations did not exceed the air asbestos action level; three samples showed the presence of asbestos and exceeded the air asbestos action level; and three samples were not analyzed because of particulate overloading.
- Analytical results for the 35 post-removal soil samples collected ranged from no asbestos detected to 0.75 percent chrysotile asbestos.
- Analytical results for the six bulk material samples collected ranged from no asbestos detected to 65 percent chrysotile asbestos.

Tetra Tech START completed field activities on August 30, 2017.

6.0 REFERENCES

1. Tetra Tech, Inc. Davidson Community Asbestos Removal Assessment Letter Report, Davidson, Mecklenburg County, North Carolina. August 23, 2017.
2. U.S. Environmental Protection Agency (EPA). 1987. Model Accreditation Plan, 40 *Code of Federal Regulations* (CFR) 763, 40 CFR 763. December.
3. North Carolina Administrative Code (NCAC). 2003. Chapter 10-A, Subchapter 41C, Occupational Health, Section .0600, Asbestos Hazard Management Program. July.
4. National Institute for Occupational Safety and Health (NIOSH). 1994. Method 7402, Asbestos by Transmission Electron Microscopy. August.
5. California Environmental Protection Agency, Air Resources Board (CARB). 1991. *Method 435, Determination of Asbestos Content of Serpentine Aggregate*. Adopted June 6.
6. EPA. 1993. Office of Research and Development. Test Method EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Building Materials*. July.
7. EPA. 1982. Office of Research and Development. Test Method 600/M4-82-020, *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*. December.
8. Occupational Safety and Health Administration (OSHA). 2011. Code of Federal Regulation, Title 29, Labor, Part 1926, Safety and Health Regulations for Construction, Subpart Z, Toxic and Hazardous Substances, 29 CFR 1926.1101. July.
9. EPA. 2008. Asbestos Committee of the Technical Review Workgroup of the Office of Solid Waste and Emergency Response (OSWER). *Framework for Investigating Asbestos-Contaminated Superfund Sites*. OSWER Directive #9200.0-68. September.

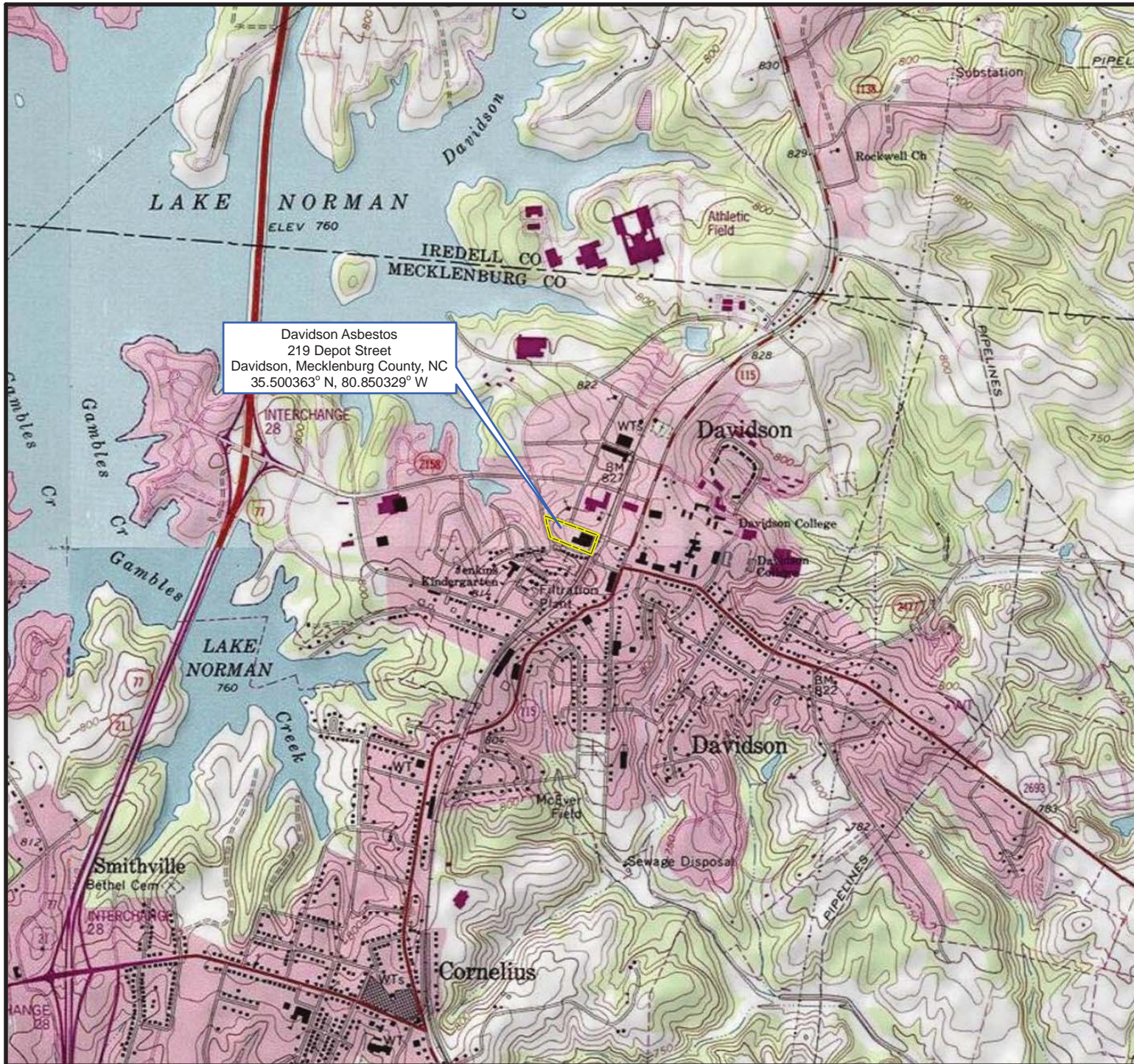
APPENDIX A

FIGURES

(Three Pages)

FIGURE

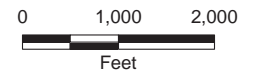
- 1 SITE LOCATION
- 2 SITE LAYOUT
- 3 BULK SAMPLING LOCATIONS – 103 SLOAN STREET



Davidson Asbestos
 219 Depot Street
 Davidson, Mecklenburg County, NC
 35.500363° N, 80.850329° W

Legend

Site Location
 (Former Asbestos Mill Boundary)



Map Sources:
 USGS Topographic Quadrangles,
 Mooresville, NC 1983
 & Cornelius, NC 1993.



United States
 Environmental Protection Agency
 Region 4

FIGURE 1
 Site Location

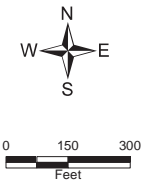
TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina



Date:
 9/17/2017
Analyst:
 dale.vonbusch



- Legend**
- Parcels with Removal Activities
 - Parcel Boundary
 - Former Asbestos Mill Boundary



Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



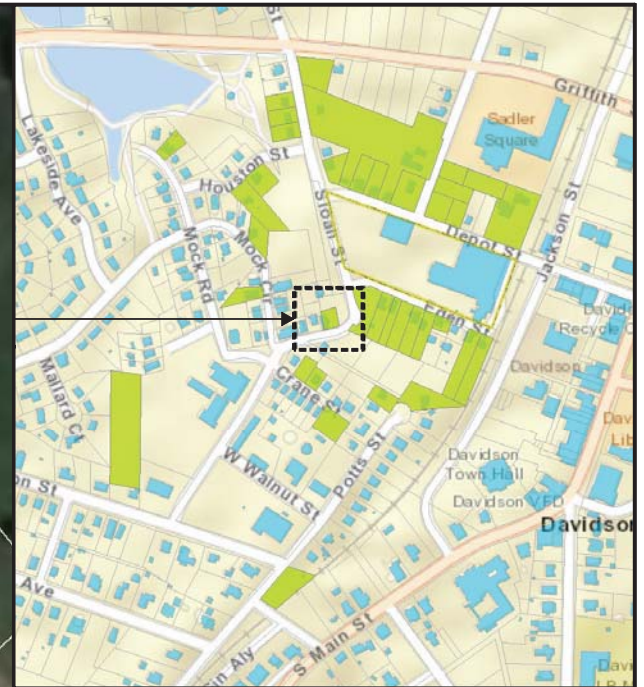
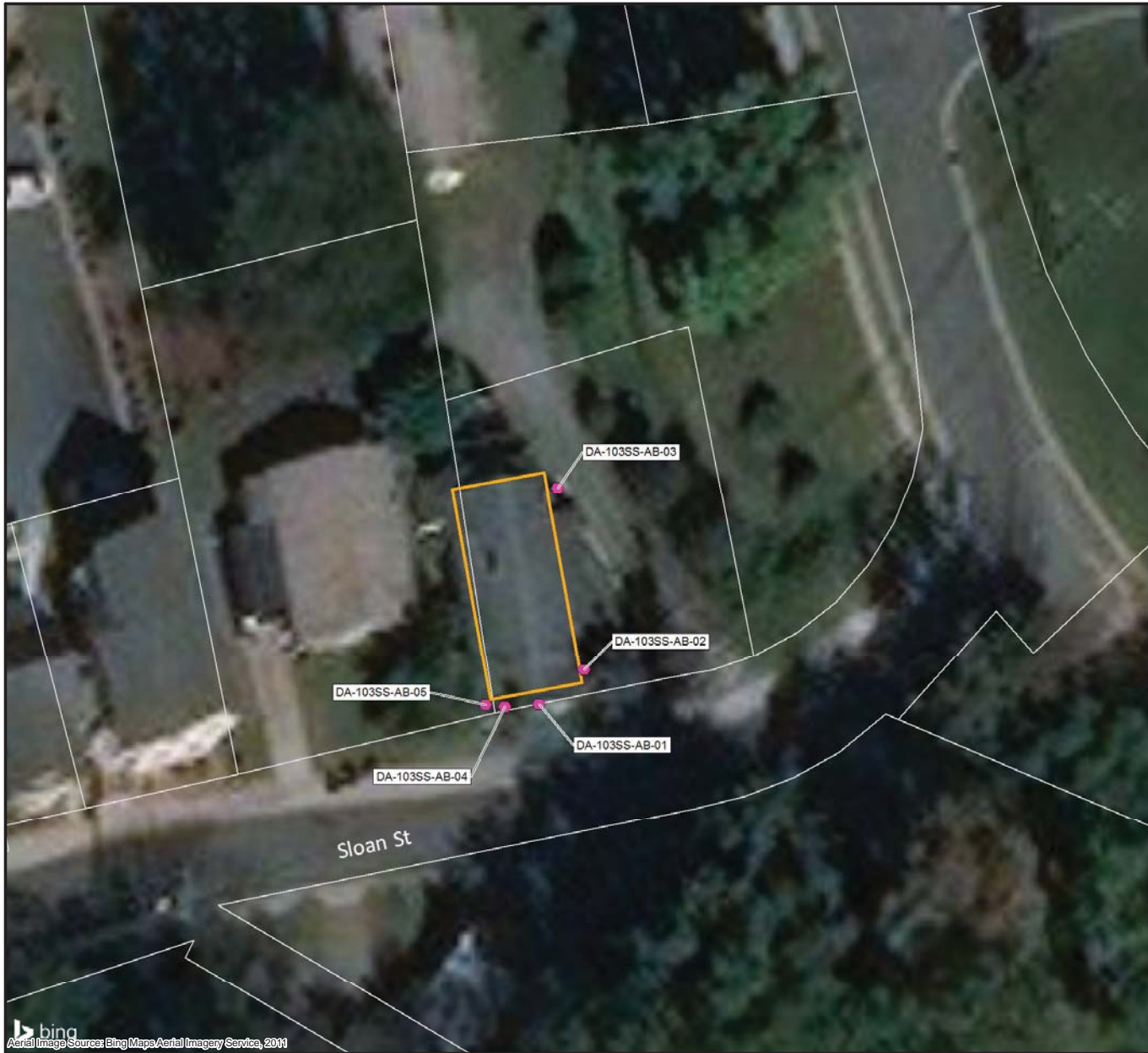
 United States Environmental Protection Agency
 Region 4

FIGURE 2
 Site Layout

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina

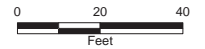
 **TETRA TECH**
Date: 9/19/2017
Analyst: dale.vonbusch

File: C:\TT-01-071_Davidson_Asbestos\mxd\site_layout.mxd



Legend

- Bulk Asbestos Sample
 - House
 - Parcel Boundary
 - Approximate Site Boundary
- Inset Map**
- Parcels with Removal Activities
 - Building/Structure



Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



FIGURE 3

Bulk Material Sample Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina

TL TETRA TECH
 Date: 12/7/2017
 Analyst: dale.vonbusch

103 Sloan Street

APPENDIX B

TABLES

(5 Pages)

TABLE

- 1 ANALYTICAL RESULTS FOR PERIMETER AIR SAMPLES
- 2 ANALYTICAL RESULTS FOR POST REMOVAL SOIL SAMPLES
- 3 ANALYTICAL RESULTS FOR BULK MATERIAL SAMPLES

TABLE 1
PERIMETER AIR SAMPLING RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Property Address	Property Id	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Result in PCME (f/cc)
214 Depot Street	214DS	0.00052 - 0.0014	1 Tremolite asbestos fiber	<0.000052 - <0.00092
209 Watson Street	209WS	0.00061 - 0.0024	NAD	<0.000061 - <0.0024
314 Depot Street	314DS	0.00069 - 0.0021	1 Chrysotile asbestos fiber	<0.00053 - <0.0021
318 Depot Street	318DS	0.0006 - 0.0014	NAD	<0.0006 - <0.0014
302 Sloan Street	302SS	0.00067 - 0.00085	NAD	<0.00019 - <0.00085
347 Griffith Street (Sloan Street - Griffith Street Intersection)	SSGS	0.0006 - 0.0013	NAD	<0.00032 - <0.0013
325 Sloan Street	325SS	0.00065	NAD	<0.00016 - <0.00065
319 Sloan Street	319SS	0.00059 - 0.00075	NAD	<0.00015 - <0.00066
320 Sloan Street	320SS	0.00061 - 0.0018	NAD	<0.00031 - <0.0016
218 Mock Road	218MR	0.00070	NAD	<0.00014
303 Houston Street	303HS	0.00073 - 0.00099	NAD	<0.00073 - <0.00099
132 Mock Circle	132MC	0.0013	NAD	<0.00043
115 Mock Circle	115MC	0.00065	NAD	<0.00011
215 Crane Street	215CS	0.00067 - 0.0023	NAD	<0.00067 - <0.0023
403 Potts Street	403PS	0.0013 - 0.0023	NAD	<0.0013 - <0.0023
248 Jetton Street	248JS	0.00066 - 0.0012	NAD	<0.00034 - <0.0012
110 Potts Street	110PS	0.00065 - 0.00083	NAD	<0.00065 - <0.00083
107 Potts Street	107PS	0.00064 - 0.00083	NAD	<0.00031 - <0.00065
207 Eden Street	207ES	0.00059 - 0.00086	NAD	<0.0002 - <0.00086
215 Eden Street	215ES	0.00056 - 0.00088	NAD	<0.00028 - <0.00088
201 Eden Street	201ES	0.00085 - 0.0023	NAD	<0.00028 - <0.0023
219 Eden Street	219ES	0.00066 - 0.0012	3 Chrysotile asbestos fibers	<0.00028 - 0.00072

TABLE 1
PERIMETER AIR SAMPLING RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Property Address	Property Id	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Result in PCME (f/cc)
225 Eden Street	225ES	0.00059 - 0.0019	1 Chrysotile asbestos fiber	<0.00022 - <0.0009
229 Eden Street	229ES	0.00064 - 0.0025	NAD	<0.00032 - <0.0019
233 Eden Street	233ES	0.00066 - 0.0017	NAD	<0.00017 - <0.0017
214 Watson Street	214WS	0.0012 - 0.0019	NAD	<0.0012 - <0.0019
235 Eden Street	235ES	0.00089 - 0.0042	NAD	<0.00012 - <0.0027
206 Watson Street (Depot Street Staging Area)	DSSA	0.00053 - 0.0036	4 Chrysotile asbestos fibers, 3 Actinolite asbestos fibers, 1 Crocidolite asbestos fiber, 1 Tremolite asbestos fiber	<0.000079 - 0.0025

Notes:

- <: Less than
- CS: Crane Street
- DA: Davidson Asbestos
- DS: Depot Street
- DSSA: Depot Street Staging Area
- ES: Eden Street
- f/cc: Fibers per cubic centimeter
- HS: Houston Street
- Id: Identification
- JS: Jetton Street
- MC: Mock Circle
- MR: Mock Road
- NAD: No asbestos detected
- PCM: Phase contract microscopy
- PCME: Phase contract microscopy equivalent
- PS: Potts Street
- pt: Point
- SS: Sloan Street
- TEM: Transmission electron microscopy
- WS: Watson Street

TABLE 2
SOIL SAMPLING RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Sample Location	Date Sampled	Type of Sample	Percent Asbestos Detected By Visual Estimate	Percent Asbestos Detected By Point Count*
DA-214DS-AS-052417	214 Depot Street	5/24/2017	Composite (14 pt)	NAD	NAD
DA-209WS-AS-053117	209 Watson Street	5/31/2017	Composite (7 pt)	NAD	NAD
DA-314DS-AS-060117	314 Depot Street	6/1/2017	Composite (5 pt)	<1	Trace Chrysotile Asbestos
DA-318DS-AS-060217	318 Depot Street	6/2/2017	Composite (6 pt)	<1	Trace Chrysotile Asbestos
DA-302SS-AS-060617	302 Sloan Street	6/6/2017	Composite (12 pt)	NAD	NAD
DA-SSGS-AS-060717	347 Griffith Street (Sloan Street - Griffith Street Intersection)	6/7/2017	Composite (8 pt)	NAD	NAD
DA-325SS-AS-061217	325 Sloan Street	6/12/2017	Composite (5 pt)	NAD	NAD
DA-319SS-AS-061417	319 Sloan Street	6/14/2017	Composite (12 pt)	NAD	NAD
DA-315SS-AS-061417	315 Sloan Street	6/14/2017	Composite (5 pt)	<1	Trace Chrysotile Asbestos
DA-320SS-AS-061517	320 Sloan Street	6/15/2017	Composite (5 pt)	<1	Trace Chrysotile Asbestos
DA-218MR-AS-061917	218 Mock Road	6/19/2017	Composite (5 pt)	<1	Trace Chrysotile Asbestos
DA-303HS-AS-061917	303 Houston Street	6/19/2017	Composite (6 pt)	NAD	NAD
DA-132MC-AS-062017	132 Mock Circle	6/20/2017	Composite (6 pt)	NAD	NAD
DA-115MC-AS-062117	115 Mock Circle	6/21/2017	Composite (6 pt)	NAD	NAD
DA-226CS-AS-062117	226 Crane Street	6/21/2017	Composite (7 pt)	NAD	NAD
DA-215CS-AS-062817	215 Crane Street	6/27/2017	Composite (10 pt)	NAD	NAD
DA-403PS-AS-070617	403 Potts Street	7/6/2017	Composite (7 pt)	<1	Trace Chrysotile Asbestos
DA-248JS-AS-070817	248 Jetton Street	7/8/2017	Composite (5 pt)	NAD	NAD
DA-110PS-AS-071017	110 Potts Street	7/10/2017	Composite (10 pt)	NAD	NAD
DA-107PS-AS-071317	107 Potts Street	7/13/2017	Composite (17 pt)	<1	Trace Chrysotile Asbestos
DA-207ES-AS-071817	207 Eden Street	7/18/2017	Composite (7 pt)	<1	Trace Chrysotile Asbestos
DA-215ES-AS-071817	215 Eden Street	7/18/2017	Composite (10 pt)	NAD	NAD
DA-201ES-AS-071817	201 Eden Street	7/18/2017	Composite (7 pt)	N/A	0.25% Chrysotile Asbestos

TABLE 2
SOIL SAMPLING RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Sample Location	Date Sampled	Type of Sample	Percent Asbestos Detected By Visual Estimate	Percent Asbestos Detected By Point Count*
DA-219ES-AS-071917	219 Eden Street	7/19/2017	Composite (15 pt)	NAD	NAD
DA-225ES-AS-072617	225 Eden Street	7/26/2017	Composite (16 pt)	NAD	NAD
DA-229ES-AS-072717	229 Eden Street	7/27/2017	Composite (22 pt)	N/A	0.75% Chrysotile Asbestos
DA-233ES-AS-080417	233 Eden Street	8/4/2017	Composite (32 pt)	<1	Trace Chrysotile Asbestos
DA-303HS-AS-080717	303 Houston Street	8/7/2017	Composite (5 pt)	NAD	NAD
DA-214WS-AS-081017	214 Watson Street	8/10/2017	Composite (27 pt)	NAD	NAD
DA-235ES-AS-081517	235 Eden Street	8/15/2017	Composite (30 pt)	NAD	NAD
DA-241ES-AS-081517	241 Eden Street	8/15/2017	Composite (31 pt)	<1	Trace Chrysotile Asbestos
DA-210WSW-AS-081817	210 Wastson Street (West)	8/18/2017	Composite (28 pt)	NAD	NAD
DA-206WSW-AS-081817	206 Watson Street - West (Depot Street Staging Area)	8/18/2017	Composite (29 pt)	NAD	NAD
DA-210WSE-AS-081817	210 Wastson Street (East)	8/18/2017	Composite (16 pt)	NAD	NAD
DA-206WSE-AS-082217	206 Watson Street - East (Depot Street Staging Area)	8/22/2017	Composite (27 pt)	NAD	NAD

*Modification of the method with regards to point counting shows a results of "Trace" where asbestos is observed, but no points land on an asbestos fiber.

Notes:

<: Less than	MC: Mock Circle
AS: Asbestos soil sample	MR: Mock Road
CS: Crane Street	NAD: No asbestos detected
DA: Davidson Asbestos	N/A: Not applicable
DS: Depot Street	PS: Potts Street
ES: Eden Street	pt: Point
HS: Houston Street	SS: Sloan Street
Id: Identification	WSE: Watson Street - East side
JS: Jetton Street	WSW: Watson Street - West side

TABLE 3
ANALYTICAL RESULTS FOR ASBESTOS BULK SAMPLES
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

DATE SAMPLED	STREET ADDRESS	SAMPLE NUMBER	MATERIAL DESCRIPTION	ASBESTOS DETECTED BY PLM	FRIABLE	NON-ASBESTOS MATERIAL PRESENT	COMMENTS
6/6/2017	103 Sloan Street	DA-103SS-AB-01	Trowelled-On White Plaster Material	NAD	NA	See detailed laboratory sheet in Attachment X	103 Sloan Street - Center of south end of residence
6/6/2017	103 Sloan Street	DA-103SS-AB-02		NAD	NA	See detailed laboratory sheet in Attachment X	103 Sloan Street - Southeast corner of east side of residence
6/6/2017	103 Sloan Street	DA-103SS-AB-03		NAD	NA	See detailed laboratory sheet in Attachment X	103 Sloan Street - Northeast area of east side of residence
6/6/2017	103 Sloan Street	DA-103SS-AB-04	Gray Exterior Caulking	NAD	NA	See detailed laboratory sheet in Attachment X	103 Sloan Street - Southwest corner of residence
6/6/2017	103 Sloan Street	DA-103SS-AB-05	White Exterior Caulking	NAD	NA	See detailed laboratory sheet in Attachment X	103 Sloan Street - Southwest corner of residence
7/17/2017	201 Eden Street	DA-201ES-AB-01	Gray Clay-like Material Fibrous Material in Soil	65% Chrysotile asbestos	NA	See detailed laboratory sheet in Attachment X	201 Eden Street - East side of residence

Notes:

- %: Percent
- AB: Asbestos bulk sample
- DA: Davidson Asbestos site
- ES: Eden Street
- NA: Not applicable
- NAD: No asbestos detected
- PLM: Polarized Light Microscopy
- SS: Sloan Street

APPENDIX E

REMOVAL ACTION STATUS REPORTS

(428 Pages)

08/27/2018: Individual Property Removal Action Status Reports are uploaded individually by address to Laserfiche.
JHH, DEQ Brownfields

REMOVAL ACTION STATUS REPORT DAVIDSON ASBESTOS

Property Address: 347 Griffith Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were not collected at this property, but a visual inspection of the area verified the presence of asbestos-containing materials (ACM).

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: a width of 10 feet from Griffith Street to 320 Sloan Street to 12 inches; and under tree lines and around utility poles to 3 inches (see Appendix 1). Visual inspections of the excavated areas for ACM were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present. Once ACM was no longer visibly present, restoration of the areas was allowed to commence.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at four stationary locations during removal activities on June 7, 2017. Air sampling locations were selected based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00032 fibers per cubic centimeter (f/cc) to less than 0.0013 f/cc (see Appendix 2). An eight-point composite soil sample was collected from the excavated areas before restoration began, and the analytical result indicated no asbestos detected.

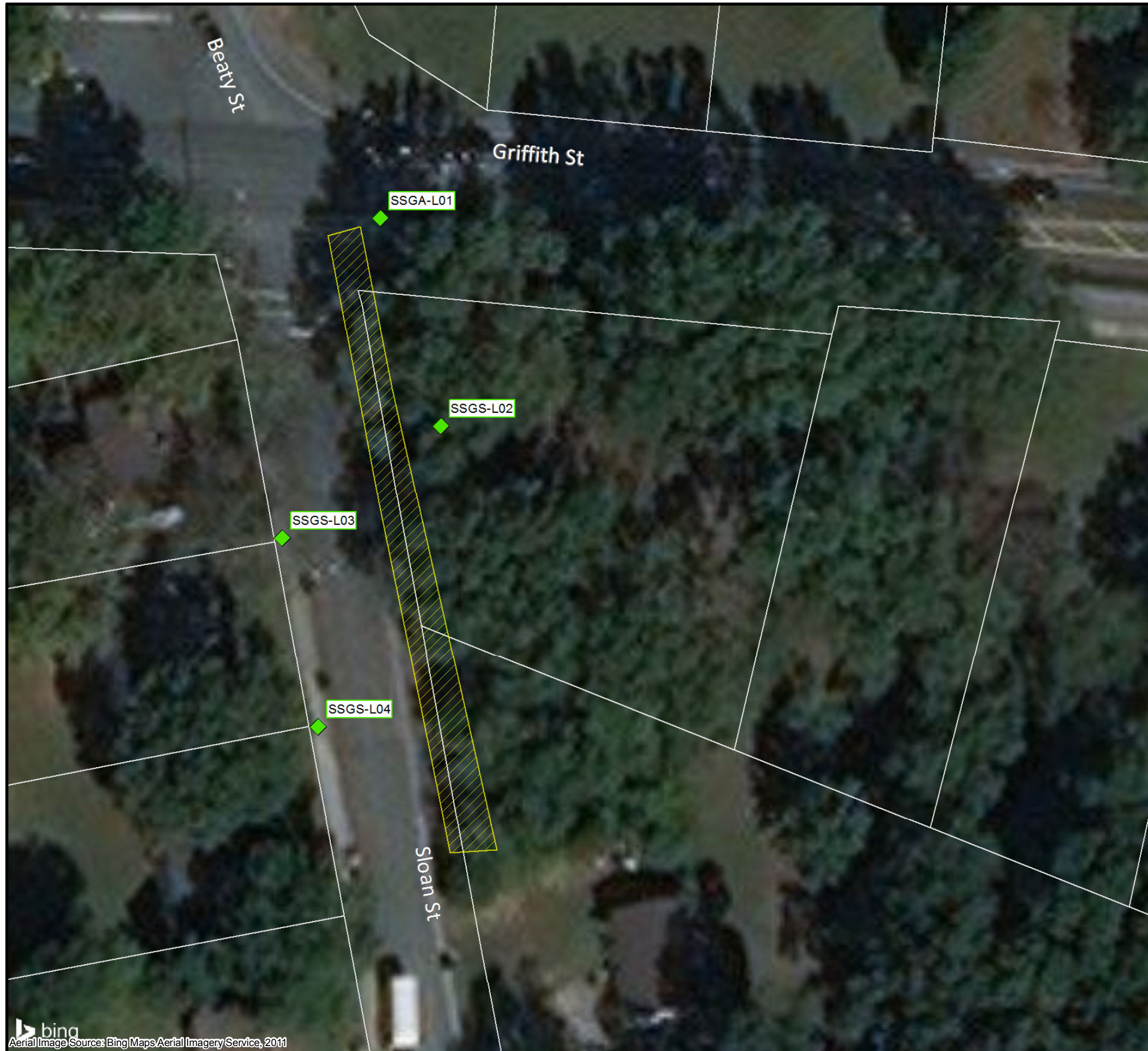
Perimeter air and composite soil samples were collected by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the excavated area, backfill, topsoil, and straw or straw matting from Griffith Street to 320 Sloan Street in the excavated area, and topsoil and straw matting under tree lines and around telephone poles. All areas were restored to the original height of the surrounding grade and seeded.

Time Frame of Removal Action: Removal activities began and were completed on June 7, 2017.

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



FIGURE 1
 Removal Areas and
 Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071

City: Davidson **County:** Mecklenburg **State:** North Carolina

347 Griffith Street

TETRA TECH

Date: 9/21/2017
Analyst: dale.vonbusch

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-SSGS-AA-L01-060717	Sloan Street/Griffith Street Intersection - Location 1	AA	G6	7:57	14:37	400	11.27	11.24	11.26	4502.0	0.0006	0	<0.0006
DA-SSGS-AA-L02-060717	Sloan Street/Griffith Street Intersection - Location 2	AA	G5	7:59	14:39	400	11.19	11.20	11.20	4478.0	0.0013	0	<0.0013
DA-SSGS-AA-L03-060717	Sloan Street/Griffith Street Intersection - Location 3	AA	G1	8:02	14:25	383	11.30	11.19	11.25	4306.8	0.00063	0	<0.00032
DA-SSGS-AA-L04-060717	Sloan Street/Griffith Street Intersection - Location 4	AA	G4	8:04	14:04	360	11.18	11.20	11.19	4028.4	0.00073	0	<0.00073

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters

lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
SSGS: Sloan Street-Griffith Street
TEM: Transmission electron microscopy

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Property Address: 325 Sloan Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results indicated no asbestos was detected, but a visual inspection of the driveway verified the presence of asbestos-containing materials (ACM).

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
325 Sloan Street	Around House	No Asbestos Detected	No Asbestos Detected

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: driveway to 12 inches; and, southern portion of front yard to 2 inches (see Appendix 1). Visual inspections of the excavated areas for ACM were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present. Once ACM was no longer visibly present, restoration of the excavated areas was allowed to commence.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at two stationary locations during removal activities June 12, 2017. Air sampling locations were selected based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00016 fibers per cubic centimeter (f/cc) to less than 0.00065 f/cc (see Appendix 2). A five-point composite soil sample was collected from the excavated areas before restoration began, and the analytical result indicated no asbestos detected.

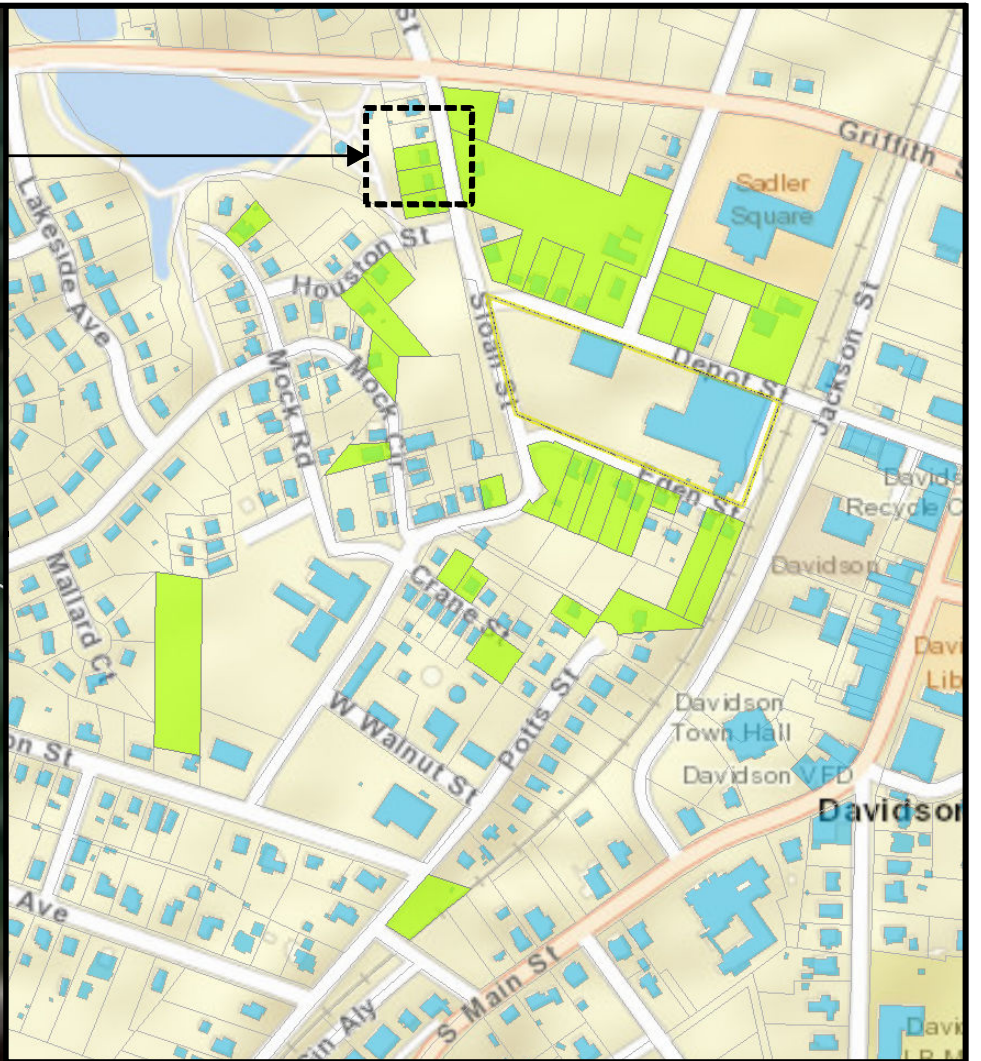
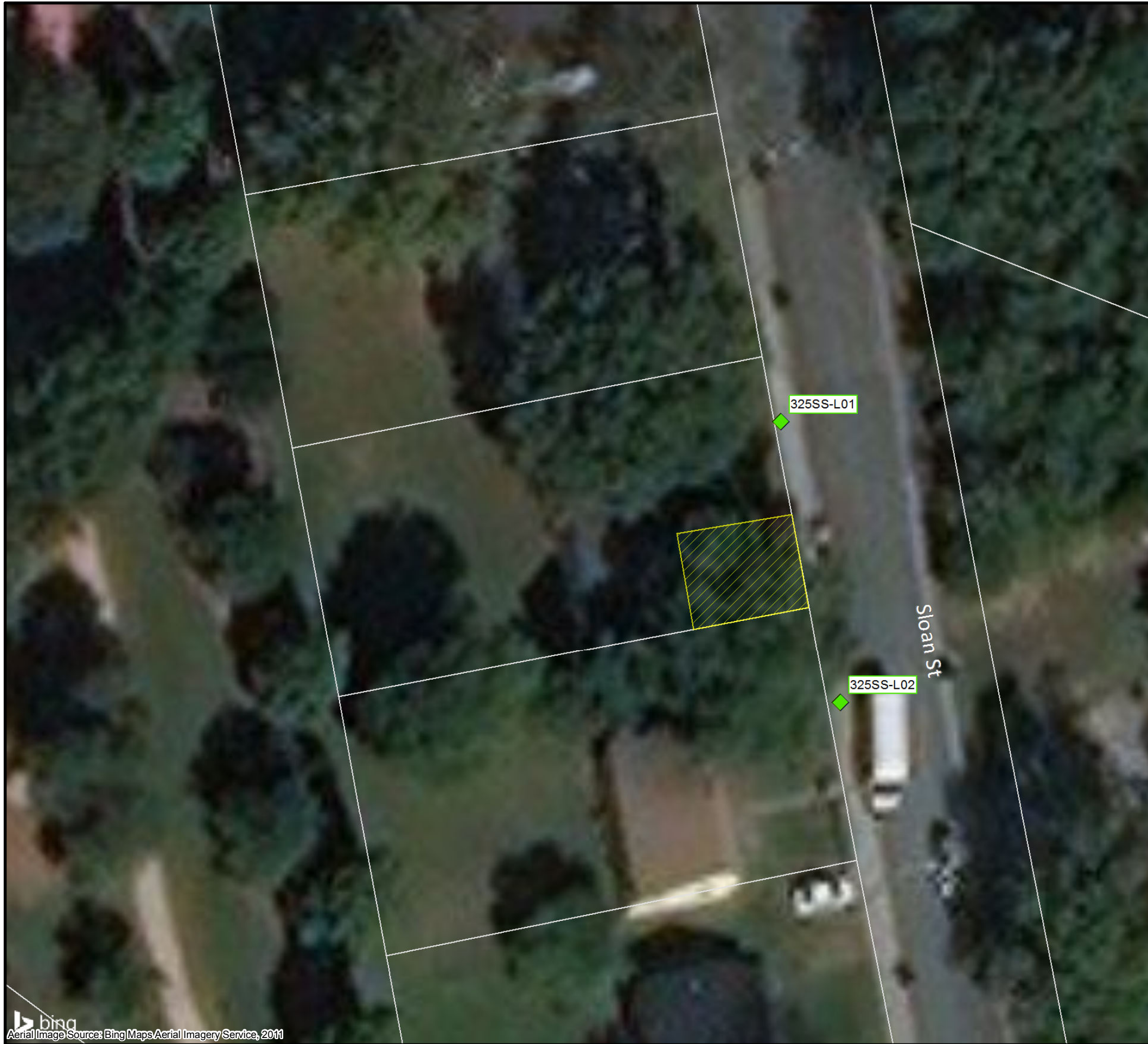
Perimeter air and composite soil samples were collected by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the area excavated, backfill and rock in the driveway, and topsoil and sod in the southern portion of the front yard. All areas were restored to the original height of the surrounding grade.

Time Frame of Removal Action: Removal activities began and were completed on June 12, 2017.

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
Aerial Imagery, Bing Maps, 2012-2014;
Parcels, <http://maps.co.mecklenburg.nc.us>

United States
Environmental Protection Agency
Region 4

FIGURE 1
Removal Areas and
Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071

City: Davidson **County:** Mecklenburg **State:** North Carolina

Date: 9/21/2017
Analyst: dale.vonbusch

325 Sloan Street

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-325SS-AA-L01-061217	325 Sloan Street - Location 1	AA	G1	8:31	15:15	404	10.59	9.90	10.25	4139.0	0.00065	0	<0.00065
DA-325SS-AA-L02-061217	325 Sloan Street - Location 2	AA	G6	8:33	15:16	403	10.62	10.11	10.37	4177.1	0.00065	0	<0.00016

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters

lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
SS: Sloan Street
TEM: Transmission electron microscopy

REMOVAL ACTION STATUS REPORT DAVIDSON ASBESTOS

Property Address: 241 Eden Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were not collected because asbestos-containing material (ACM) was visible at this property.

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 12 inches and along the southern shed foundation; 24 inches along the southern property boundary; and the tree and shrub line areas to 3 inches (see Appendix 1). Visual inspections of the areas excavated for ACM were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present, except along the street and driveway and the base of the southern shed to prevent destabilization of their foundations and past the property boundary. Once ACM was no longer visibly present throughout the main portion of the excavated area, restoration was allowed to commence. The visible, remaining ACM was photographed and documented in the site logbook before restoration began.

Summary of Multimedia Sampling Results: Since removal activities at 235 and 241 Eden Street were conducted at the same time, the perimeter air sampling conducted at seven stationary locations from July 31 through August 14, 2017, encompasses both properties. Air sampling was conducted daily at one to four of those locations as weather permitted and based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00012 fibers per cubic centimeter (f/cc) to less than 0.0027 f/cc. Of the 13 air perimeter air samples collected, sample DA-235ES-AA-L03-080217, was not able to be analyzed because of particulate overloading (see Appendix 2). A 31-point composite soil sample was collected from the excavated areas before restoration began and the analytical result indicated no asbestos detected.

Perimeter air and composite soil samples were conducted by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the excavated lawn area, snow fencing and red "Danger Asbestos" tape near the southern shed area, backfill, topsoil, and sod in the excavated lawn areas and in portions of the southern shed area, topsoil and mulch around the tree and shrub lines, topsoil, grass seed, and straw matting along the southern hill, and snow fencing, backfill, and two types of rock in the southern shed area. All areas were restored to the original height of the surrounding grade.

Time Frame of Removal Action: Removal activities began on July 31, 2017, and were completed on August 15, 2017.

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



FIGURE 1
 Removal Areas and
 Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina

241 Eden Street

TETRA TECH

Date: 9/21/2017
Analyst: dale.vonbusch

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

**TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA**

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-235ES-AA-L01-073117	235 Eden Street - Location 1	AA	G6	8:33	15:26	413	10.36	10.01	10.19	4206.4	0.0037	0	<0.00074
DA-235ES-AA-L02-073117	235 Eden Street - Location 2	AA	G4	8:49	15:32	403	10.47	9.95	10.21	4114.6	0.0027	0	<0.0027
DA-235ES-AA-L03-073117	235 Eden Street - Location 3	AA	G3	8:51	15:35	404	10.55	10.29	10.42	4209.7	0.0017	0	<0.00085
DA-235ES-AA-L02-080117	235 Eden Street - Location 2	AA	G1	7:57	15:36	459	9.74	9.29	9.52	4367.4	0.0009	0	<0.00015
DA-235ES-AA-L03-080117	235 Eden Street - Location 3	AA	G3	8:00	15:39	459	9.78	9.50	9.64	4424.8	0.0021	0	<0.0007
DA-235ES-AA-L04-080117	235 Eden Street - Location 4	AA	G6	7:50	15:32	462	9.73	9.37	9.55	4412.1	0.00089	0	<0.00015
DA-235ES-AA-L03-080217	235 Eden Street - Location 3	AA	G3	8:13	15:34	441	9.68	9.73	9.71	4279.9	Sample not analyzed due to particulate overloading.		
DA-235ES-AA-L05-080217	235 Eden Street - Location 5	AA	G1	8:24	15:41	437	9.73	9.63	9.68	4230.2	0.0042	0	<0.00053
DA-235ES-AA-L06-080217	235 Eden Street - Location 6	AA	G6	8:41	15:51	430	10.01	10.07	10.04	4317.2	0.0033	0	<0.00037
DA-235ES-AA-L07-080217	235 Eden Street - Location 7	AA	G4	8:51	15:56	425	10.02	9.94	9.98	4241.5	0.0013	0	<0.00012
DA-235ES-AA-L05-080317	235 Eden Street - Location 5	AA	G4	7:59	15:00	421	9.64	9.72	9.68	4075.3	0.0014	0	<0.0007
DA-235ES-AA-L02-081417	235 Eden Street - Location 2	AA	G1	7:54	15:07	433	9.76	9.43	9.60	4154.6	0.0017	0	<0.00043
DA-235ES-AA-L03-081417	235 Eden Street - Location 3	AA	G3	7:56	15:05	429	9.67	9.40	9.54	4090.5	0.0019	0	<0.00095

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos

ES: Eden Street
f/cc: Fibers per cubic centimeter
Id: Identification

l: Liters
lpm: Liters per minute
Min: Minutes

PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
TEM: Transmission electron microscopy

REMOVAL ACTION STATUS REPORT DAVIDSON ASBESTOS

Property Address: 235 Eden Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were not collected because asbestos-containing material (ACM) was at this property.

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 12 inches and along the residential and southern shed foundations and the tree and shrub line areas to 3 inches (see Appendix 1). Visual inspections of the areas excavated for ACM were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present, except along the base of the southern shed to prevent destabilization of its foundation and past the property boundary. Once ACM was no longer visibly present throughout the main portion of the excavated area, restoration was allowed to commence. The visible, remaining ACM was photographed and documented in the site logbook before restoration began.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at seven stationary locations during removal activities from July 31 through August 14, 2017. Air sampling was conducted daily at one to four of those locations as weather permitted and based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00012 fibers per cubic centimeter (f/cc) to less than 0.0027 f/cc. Of the 13 air perimeter air samples collected, sample DA-235ES-AA-L03-080217, was not able to be analyzed because of particulate overloading (see Appendix 2). A 30-point composite soil sample was collected from the excavated areas before restoration began and the analytical result indicated no asbestos detected.

Perimeter air and composite soil samples were conducted by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the excavated lawn area, snow fencing and red "Danger Asbestos" tape around the southern shed area, backfill, topsoil, and sod in the excavated lawn areas and in portions of the southern shed area, topsoil and mulch around the tree and shrub lines, topsoil, grass seed, and straw matting along the southern hill, and snow fencing, backfill, and two types of rock in the in the southern shed area. All areas were restored to the original height of the surrounding grade.

Time Frame of Removal Action: Removal activities began on July 31, 2017, and were completed on August 15, 2017.

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



FIGURE 1
 Removal Areas and
 Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina

235 Eden Street

TETRA TECH

Date: 9/21/2017
Analyst: dale.vonbusch

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-235ES-AA-L01-073117	235 Eden Street - Location 1	AA	G6	8:33	15:26	413	10.36	10.01	10.19	4206.4	0.0037	0	<0.00074
DA-235ES-AA-L02-073117	235 Eden Street - Location 2	AA	G4	8:49	15:32	403	10.47	9.95	10.21	4114.6	0.0027	0	<0.0027
DA-235ES-AA-L03-073117	235 Eden Street - Location 3	AA	G3	8:51	15:35	404	10.55	10.29	10.42	4209.7	0.0017	0	<0.00085
DA-235ES-AA-L02-080117	235 Eden Street - Location 2	AA	G1	7:57	15:36	459	9.74	9.29	9.52	4367.4	0.0009	0	<0.00015
DA-235ES-AA-L03-080117	235 Eden Street - Location 3	AA	G3	8:00	15:39	459	9.78	9.50	9.64	4424.8	0.0021	0	<0.0007
DA-235ES-AA-L04-080117	235 Eden Street - Location 4	AA	G6	7:50	15:32	462	9.73	9.37	9.55	4412.1	0.00089	0	<0.00015
DA-235ES-AA-L03-080217	235 Eden Street - Location 3	AA	G3	8:13	15:34	441	9.68	9.73	9.71	4279.9	Sample not analyzed due to particulate overloading.		
DA-235ES-AA-L05-080217	235 Eden Street - Location 5	AA	G1	8:24	15:41	437	9.73	9.63	9.68	4230.2	0.0042	0	<0.00053
DA-235ES-AA-L06-080217	235 Eden Street - Location 6	AA	G6	8:41	15:51	430	10.01	10.07	10.04	4317.2	0.0033	0	<0.00037
DA-235ES-AA-L07-080217	235 Eden Street - Location 7	AA	G4	8:51	15:56	425	10.02	9.94	9.98	4241.5	0.0013	0	<0.00012
DA-235ES-AA-L05-080317	235 Eden Street - Location 5	AA	G4	7:59	15:00	421	9.64	9.72	9.68	4075.3	0.0014	0	<0.0007
DA-235ES-AA-L02-081417	235 Eden Street - Location 2	AA	G1	7:54	15:07	433	9.76	9.43	9.60	4154.6	0.0017	0	<0.00043
DA-235ES-AA-L03-081417	235 Eden Street - Location 3	AA	G3	7:56	15:05	429	9.67	9.40	9.54	4090.5	0.0019	0	<0.00095

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos

ES: Eden Street
f/cc: Fibers per cubic centimeter
Id: Identification

l: Liters
lpm: Liters per minute
Min: Minutes

PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
TEM: Transmission electron microscopy

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Property Address: 233 Eden Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos.

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
233 Eden Street	Front Yard	No Asbestos Detected	0.25
	Back Yard	2.0	3.75

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 24 inches; northern front yard area to 6 inches; and, along the residential foundation and tree and shrub line areas to 3 inches (see Appendix 1). Visual inspections of the areas excavated for asbestos-containing materials (ACM) were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional soil was removed in those areas where ACM were still visibly present, except along the base of the driveway and the street to prevent destabilization of their foundations. Once ACM was no longer visibly present throughout the main portion of the excavated area, restoration was allowed to commence. The visible, remaining ACM was photographed and documented in the site logbook prior to the commencement of restoration activities. In addition, ACM and asbestos-contaminated soil was removed to a depth of 1 inch from the underneath the southern end of the residence using hand tools.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at three stationary locations during removal activities on July 26, 2017 based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00017 fibers per cubic centimeter (f/cc) to less than 0.0017 f/cc (see Appendix 2). A 32-point composite soil sample was collected from the excavated areas before restoration began and the analytical result indicated a trace amount of chrysotile asbestos detected.

Perimeter air and composite soil samples were conducted by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

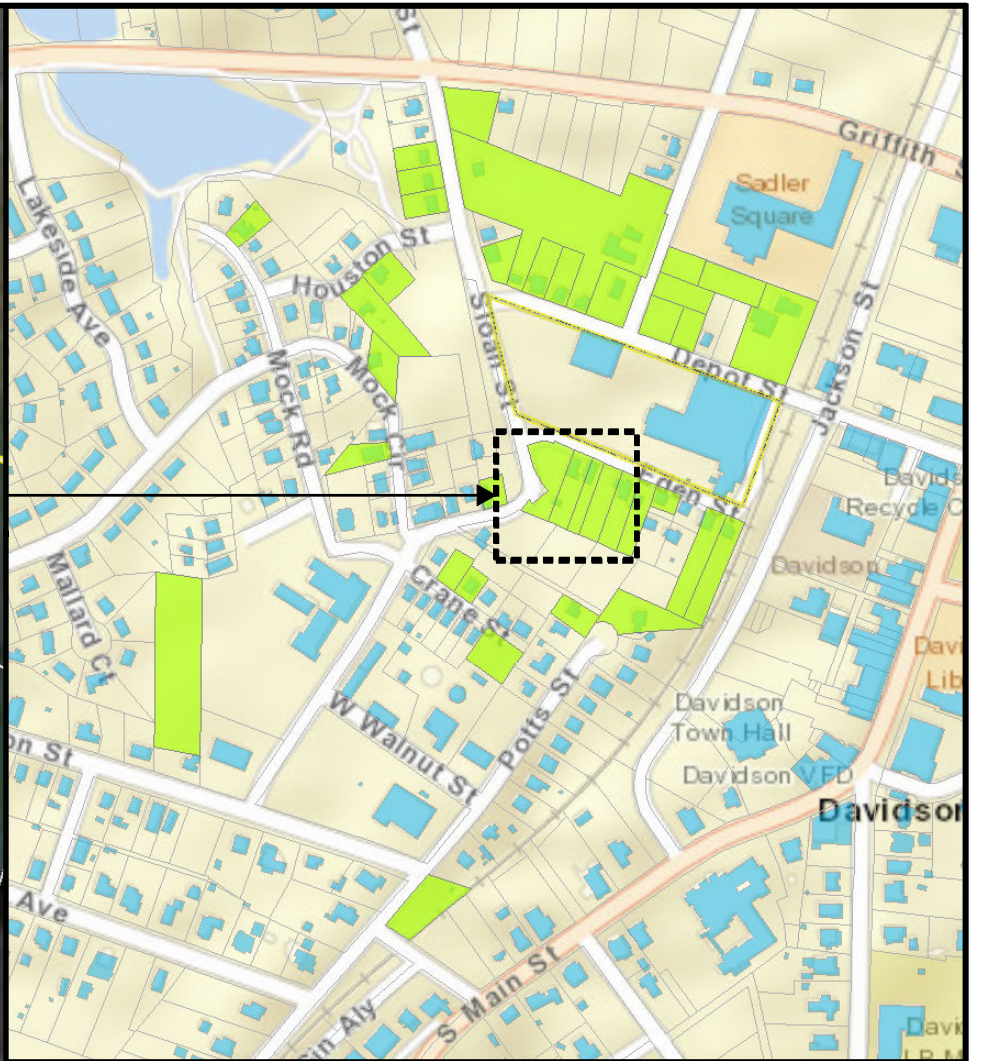
Restoration of Property: Restoration work included installation of snow fencing and red “Danger Asbestos” tape on top of the subsurface of the excavated area, backfill, topsoil, and sod in the excavated lawn areas, topsoil and sod in the northern front yard area, and topsoil and mulch around the tree and shrub lines. All areas were restored to the original height of the surrounding grade. Furthermore, a section of sewage pipe approximately 20 feet long was replaced in the back yard.

Time Frame of Removal Action: Removal activities began on July 25, 2017, and were completed on August 2, 2017.

REMOVAL ACTION STATUS REPORT DAVIDSON ASBESTOS

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
Aerial Imagery, Bing Maps, 2012-2014;
Parcels, <http://maps.co.mecklenburg.nc.us>

United States
Environmental Protection Agency
Region 4

FIGURE 1
Removal Areas and
Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071

City: Davidson **County:** Mecklenburg **State:** North Carolina

Date: 9/21/2017
Analyst: dale.vonbusch

233 Eden Street

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-233ES-AA-L01-072617	233 Eden Street - Location 1	AA	G4	8:05	15:40	455	9.66	9.62	9.64	4386.2	0.001	0	<0.00025
DA-233ES-AA-L02-072617	233 Eden Street - Location 2	AA	G3	8:07	15:47	460	9.68	9.63	9.66	4441.3	0.00066	0	<0.00017
DA-233ES-AA-L03-072617	233 Eden Street - Location 3	AA	G6	8:09	15:50	461	9.63	9.67	9.65	4448.7	0.0017	0	<0.0017

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
ES: Eden Street
f/cc: Fibers per cubic centimeter
Id: Identification

l: Liters
lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
TEM: Transmission electron microscopy

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Property Address: 229 Eden Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos. Those samples with analytical results reported as “trace” (less than 0.25 percent asbestos) were further analyzed by fluidized bed analysis and reported in soil concentrations of phase contrast microcopy equivalent (PCME) structures per gram (s/g).

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
229 Eden Street	Vacant Lot	0.0 s/g	4.0

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 36 inches and tree line areas to 3 inches (see Appendix 1). Visual inspections of the areas excavated for asbestos-containing materials (ACM) were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present, except along the base of the driveway and the street to prevent destabilization of their foundations. Once ACM was no longer visibly present throughout the main portion of the excavated area, restoration was allowed to commence. The visible, remaining ACM was photographed and documented in the site logbook before restoration began.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at four stationary locations during removal activities from July 24 through July 25, 2017. Air sampling was conducted daily at two of those locations as weather permitted and based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00032 fibers per cubic centimeter (f/cc) to less than 0.0019 f/cc (See Appendix 2). A 22-point composite soil sample was collected from the excavated areas before to restoration began and the analytical result detected a soil concentration of 0.75 percent chrysotile asbestos.

Perimeter air and composite soil samples were conducted by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

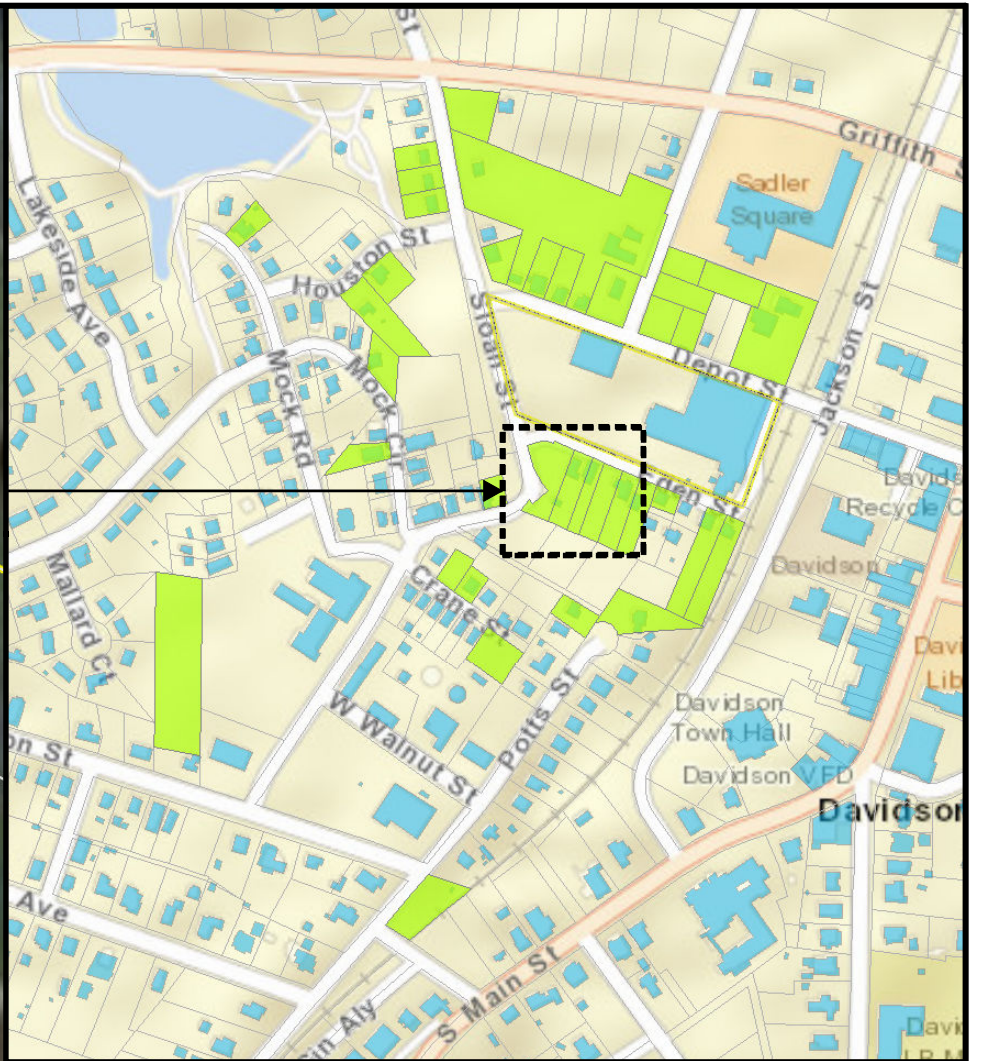
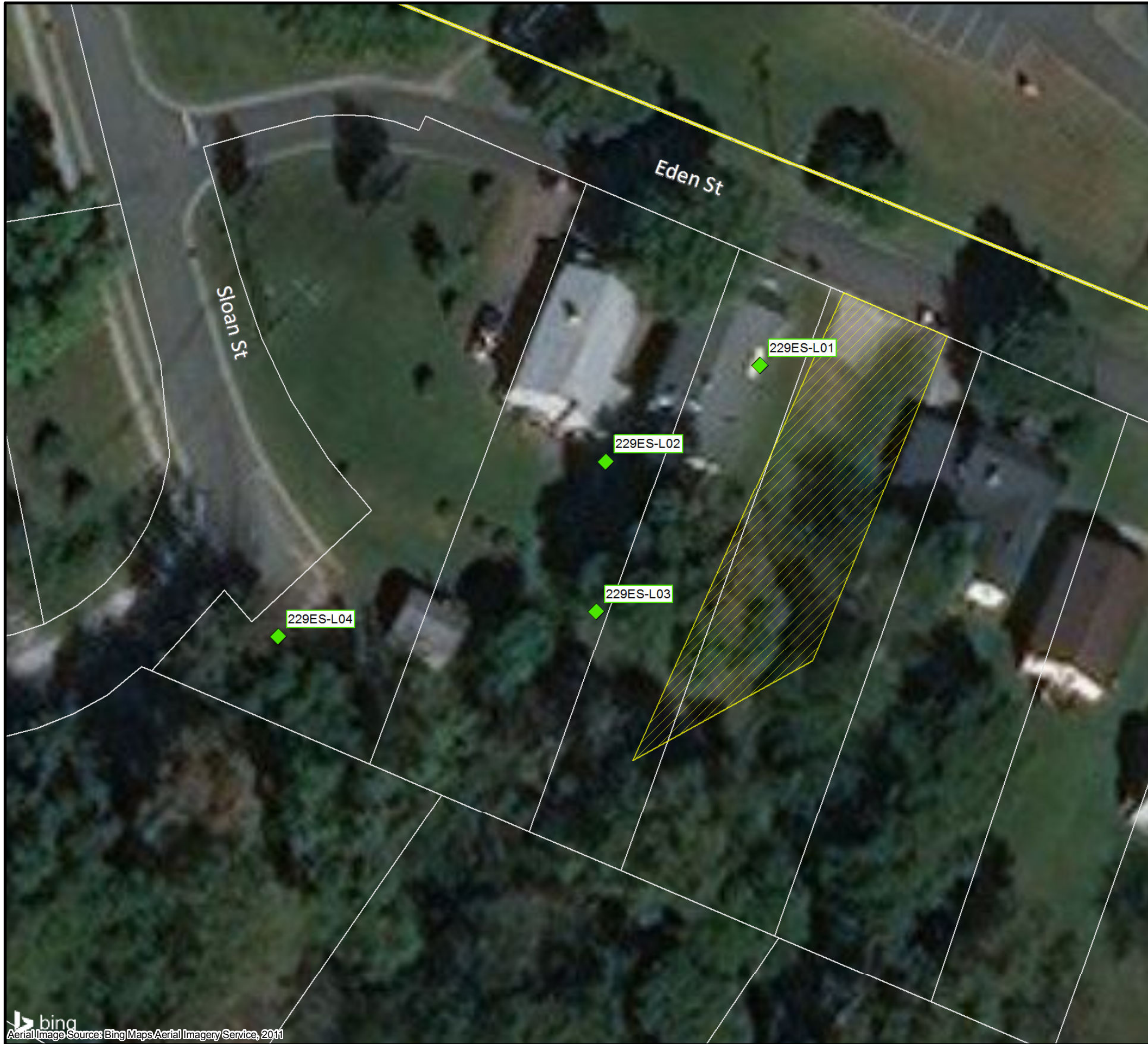
Restoration of Property: Restoration work included installation of snow fencing and red “Danger Asbestos” tape on top of the subsurface of the excavated area to identify the depth of excavation and the presence of ACM, backfill, topsoil, and sod in the excavated lawn areas, and snow fencing and red “Danger Asbestos” tape around the tree line to identify the depth of removal and the presence of ACM along with breathable plastic sheeting, topsoil, and mulch. All areas were restored to the original height of the surrounding grade.

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Time Frame of Removal Action: Removal activities began on July 24, 2017, and were completed on July 27, 2017.

Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

- ◆ Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- Parcels with Removal Activities
- Building/Structure

Map Sources:
Aerial Imagery, Bing Maps, 2012-2014;
Parcels, <http://maps.co.mecklenburg.nc.us>

United States
Environmental Protection Agency
Region 4

FIGURE 1
Removal Areas and
Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071

City: Davidson **County:** Mecklenburg **State:** North Carolina

Date: 9/21/2017
Analyst: dale.vonbusch

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-229ES-AA-L01-072417	229 Eden Street - Location 1	AA	G4	9:18	16:17	419	10.66	10.64	10.65	4462.4	0.0019	0	<0.0019
DA-229ES-AA-L02-072417	229 Eden Street - Location 2	AA	G3	9:25	16:20	415	10.73	10.58	10.66	4421.8	0.0011	0	<0.0011
DA-229ES-AA-L03-072517	229 Eden Street - Location 3	AA	G4	8:16	15:25	429	9.85	9.64	9.75	4180.6	0.00064	0	<0.00032
DA-229ES-AA-L04-072517	229 Eden Street - Location 4	AA	G6	8:18	15:29	431	9.74	9.53	9.64	4152.7	0.0025	0	<0.00083

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
ES: Eden Street
f/cc: Fibers per cubic centimeter
Id: Identification

l: Liters
lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
TEM: Transmission electron microscopy

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Property Address: 107 Potts Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos. Those samples with analytical results reported as “trace” (less than 0.25 percent asbestos) were further analyzed by fluidized bed analysis and reported in soil concentrations of phase contrast microcopy equivalent (PCME) structures per gram (s/g) of soil.

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
107 Potts Street	Front Yard	0.0 s/g	0.25
	Back Yard	No Asbestos Detected	No Asbestos Detected

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 24 inches and areas around the residential drip line and a utility pole to 3 inches (see Appendix 1). Visual inspections of the areas excavated for asbestos-containing materials (ACM) were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted where ACM were still visibly present, except under Potts Street and under the water line leading to 110 Potts Street. Once ACM was no longer visibly present throughout the main property of 107 Potts Street, restoration of the excavated areas was allowed to commence. The visible ACM remaining under Potts Street and under the water line leading to 110 Potts Street was photographed and documented in the site logbook before restoration began.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted during removal activities from July 10 through July 11, 2017, at three stationary locations. Air sampling was conducted daily at those locations based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00031 fibers per cubic centimeter (f/cc) to less than 0.00065 f/cc (see Appendix 2). A 17-point composite soil sample was collected from the excavated areas before restoration began and the analytical result detected a trace amount of chrysotile asbestos.

Perimeter air and composite soil samples were collected by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

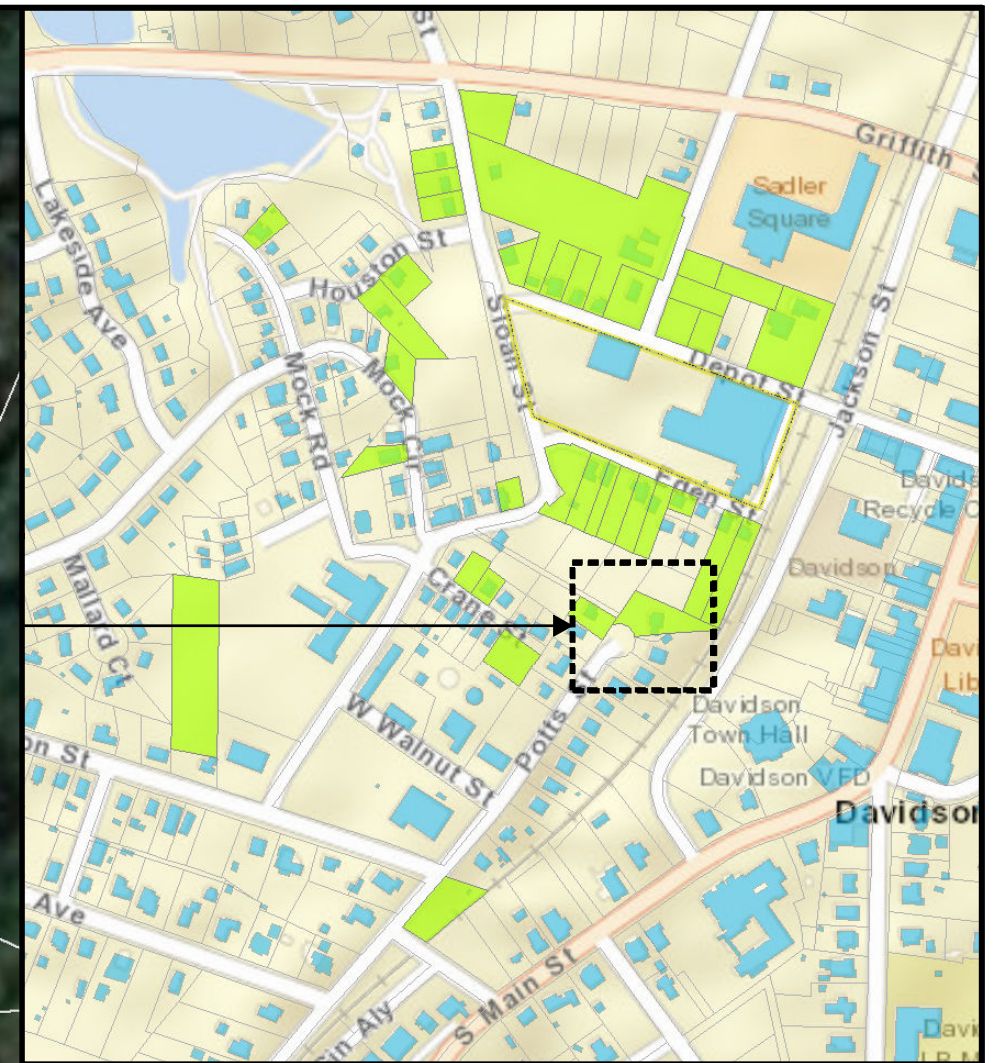
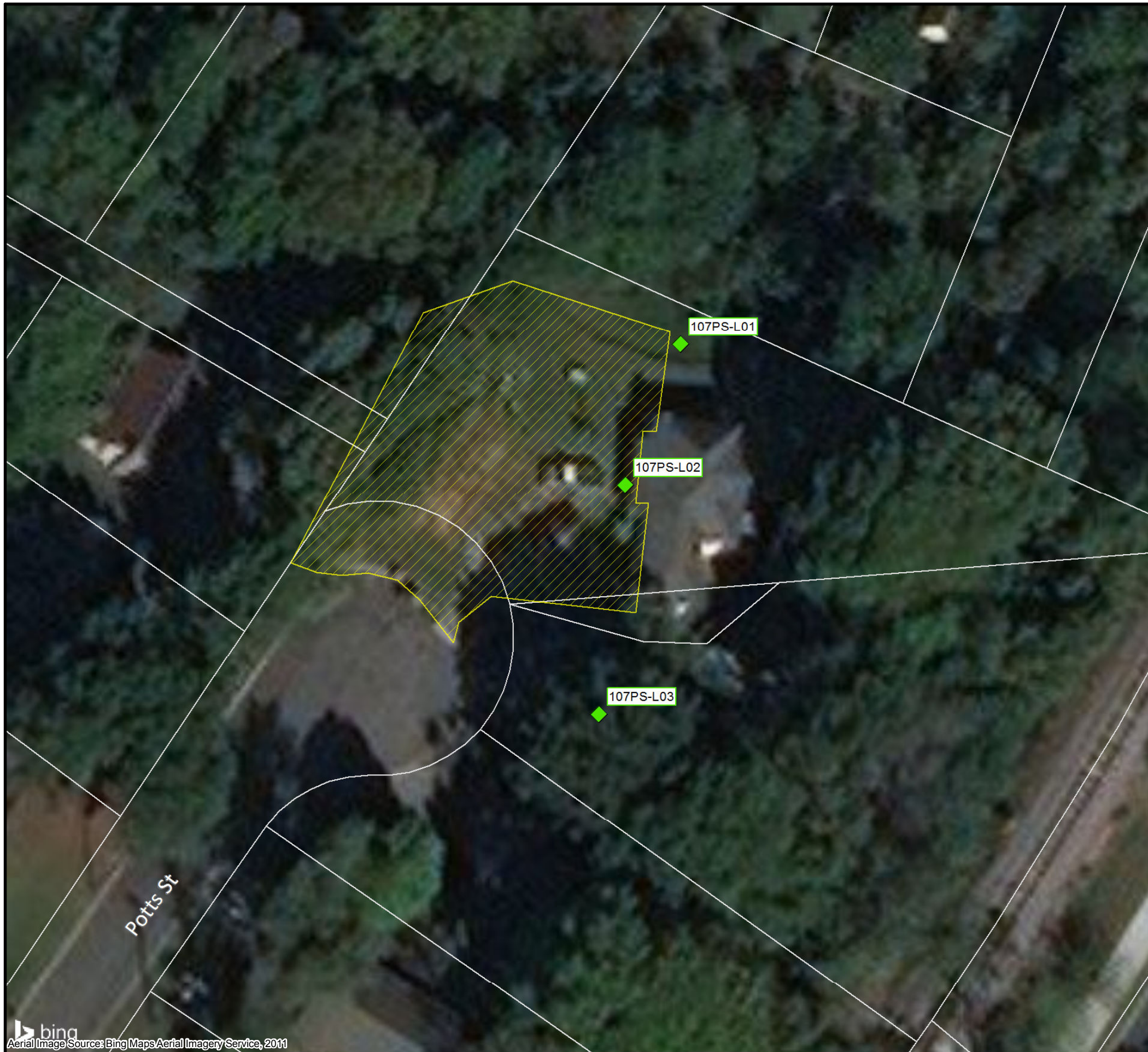
Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the excavated area. Initially backfill, topsoil, and sod were installed in one-half of the property, and the other half of the property received backfill and rock. On August 8, 2017, ER removed a portion of the rock from the property and replaced it with topsoil and sod to comply with a City of Davidson ordinance. All areas were restored to the original height of the surrounding grade.

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**




Time Frame of Removal Action: Removal activities began on July 10, 2017, and were completed on July 13, 2017.

Appendices to this report include:



1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities

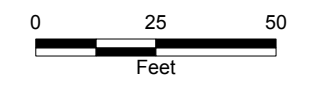


Legend

-  Air Sample
-  Removal Area
-  Parcel Boundary

Inset Map

-  *Parcels with Removal Activities*
-  Building/Structure



Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



United States
 Environmental Protection Agency
 Region 4

FIGURE 1

Removal Areas and
 Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina



Date: 12/7/2017
Analyst: dale.vonbusch

107 Potts Street

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-107PS-AA-L01-071017	107 Potts Street - Location 1	AA	G4	10:00	16:35	395	10.67	10.36	10.52	4153.4	0.00065	0	<0.00065
DA-107PS-AA-L02-071017	107 Potts Street - Location 2	AA	G3	9:49	16:34	405	10.45	10.09	10.27	4159.4	0.00065	0	<0.00065
DA-107PS-AA-L03-071017	107 Potts Street - Location 3	AA	G6	9:52	16:27	395	10.55	10.25	10.40	4108.0	0.00064	0	<0.00064
DA-107PS-AA-L01-071117	107 Potts Street - Location 1	AA	G5	7:54	15:08	434	10.41	10.05	10.23	4439.8	0.00061	0	<0.00031
DA-107PS-AA-L02-071117	107 Potts Street - Location 2	AA	G4	7:58	15:10	432	10.46	10.12	10.29	4445.3	0.00077	0	<0.00039
DA-107PS-AA-L03-071117	107 Potts Street - Location 3	AA	G6	8:02	15:05	423	10.40	10.05	10.23	4325.2	0.00062	0	<0.00062

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters

lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
PS: Potts Street
TEM: Transmission electron microscopy

**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

Property Address: 110 Potts Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos. No asbestos was detected in analytical samples collected at the property; however, suspected asbestos-containing material (ACM) was observed in the footpath to the front door.

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
110 Potts Street	Front Yard	No Asbestos Detected	No Asbestos Detected
	Back Yard	No Asbestos Detected	No Asbestos Detected

Description of Removal Action: The soil was excavated to an approximate maximum depth of 12 inches in the lawn 2 inches around the tree and shrub line areas (see Appendix 1). Visual inspections of the areas excavated for ACM were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present. Once ACM was no longer visibly present, restoration of the excavated areas was allowed to commence.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at two stationary locations during removal activities on July 10, 2017. Air sampling was conducted at these locations based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00065 fibers per cubic centimeter (f/cc) to less than 0.00083 f/cc (see Appendix 2). A 10-point composite soil sample was collected from the excavated areas before restoration began and the analytical result indicated no asbestos detected.

Perimeter air and composite soil samples were collected by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

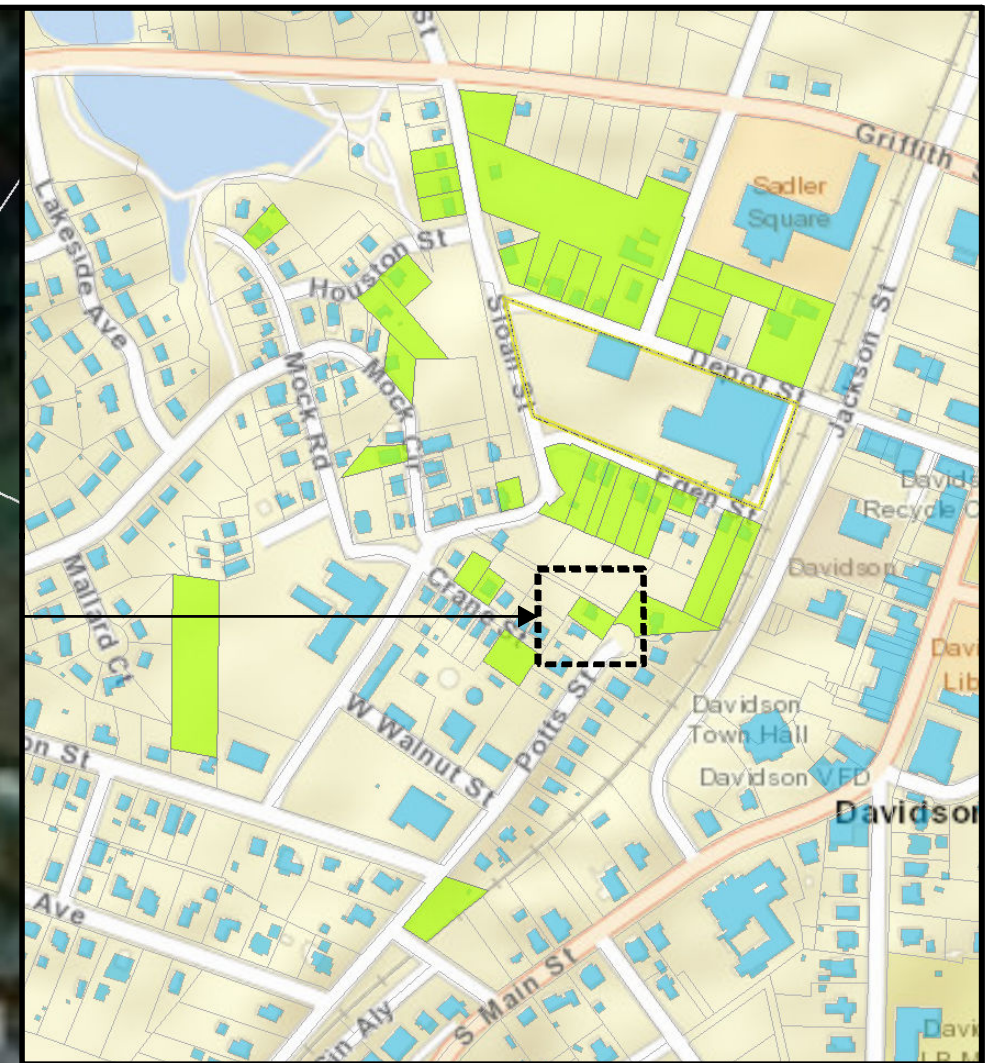
Restoration of Property: Restoration work included installation of snow fencing on top of the subsurface of the excavated lawn area, backfill, topsoil, and sod in the majority of excavated lawn and tree line areas, and backfill and rock on top of the excavated lawn surface to construct a driveway along the northern portion of the area. On August 8, 2017, ER removed an approximate width of 3 feet from the northern side of the driveway and replaced it with mulch to construct a public pathway. All areas were restored to the original height of the surrounding grade.

Time Frame of Removal Action: Removal activities began on and were completed on July 10, 2017.






**REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS**

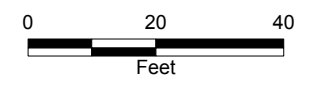
Appendices to this report include:

1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities



Legend

-  Air Sample
 -  Removal Area
 -  Parcel Boundary
- Inset Map**
-  *Parcels with Removal Activities*
 -  Building/Structure



Map Sources:
 Aerial Imagery, Bing Maps, 2012-2014;
 Parcels, <http://maps.co.mecklenburg.nc.us>



United States
 Environmental Protection Agency
 Region 4

FIGURE 1

Removal Areas and
 Air Sampling Locations

TDD Name: Davidson Asbestos
TDD No.: TT-01-071
City: Davidson **County:** Mecklenburg **State:** North Carolina



Date: 12/7/2017
Analyst: dale.vonbusch

110 Potts Street

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-110PS-AA-L01-071017	110 Potts Street - Location 1	AA	G1	9:26	16:12	406	10.40	9.91	10.16	4122.9	0.00083	0	<0.00083
DA-110PS-AA-L02-071017	110 Potts Street - Location 2	AA	G5	9:31	16:15	404	10.44	10.17	10.31	4163.2	0.00065	0	<0.00065

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters

lpm: Liters per minute
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
PS: Potts Street
TEM: Transmission electron microscopy

Appendix C

Public Outreach Notification and NCDHHS Correspondance

Project Update

Dear Resident or Property Owner:

The N.C. Department of Transportation is preparing to extend Potts Street to Sloan Street, and to add a multiuse trail on Potts Street from N.C. 115 to Griffith Street, and a roundabout at the Sloan Street / Griffith Street intersection.(NCDOT State Transportation Improvement Project U-5907) in Davidson. NCDOT anticipates that construction activities will begin in the Summer/Fall of 2020.

The US Environmental Protection Agency (EPA) previously identified and partially removed asbestos-impacted soil and buried asbestos-containing materials (ACMs) associated with the Davidson Asbestos Site in the area. Prior to conducting the road and sidewalk improvement activities, NCDOT's environmental consultant (Hart & Hickman, PC) will be conducting assessment activities to determine if asbestos-impacted soil and ACMs are present in proposed future NCDOT work areas.

The assessment activities will be conducted within the proposed Right of Way and Construction Easement areas along Potts Street, Sloan Street, Griffith Street and Beaty Street over a two-week period December 2019 or January 2020.

During assessment activities, precautions will be implemented to protect the public including:

- assessment activities will be conducted by trained/licensed asbestos inspectors;
- engineering controls will be utilized to limit the risk for public asbestos exposure;
- soil collection will be conducted using hand tools, etc. to minimize soil disturbance; and
- an exclusion zone will be set up at each sample location to secure the area and prevent public access during sampling activities.

Contact information:

If you would like further information about the proposed project, associated assessment activities, or the contaminants being addressed, please contact:

Sean Epperson, PE,
NCDOT Division Project Team Lead
704-983-4400
smepperson@ncdot.gov



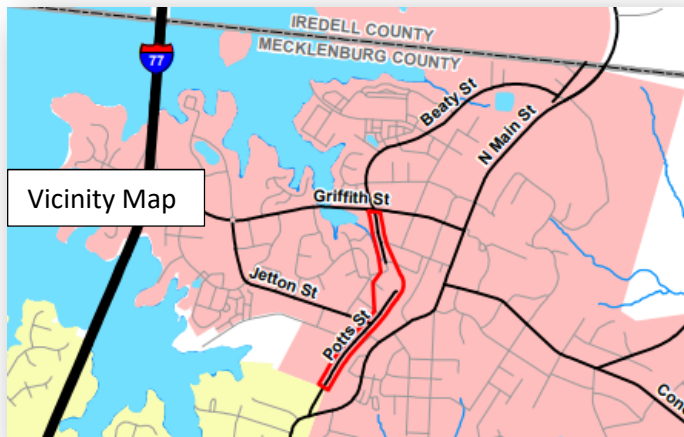
Project Update

Persons who do not speak English,
or have a limited ability to read, speak
or understand English, may receive
interpretive services upon request by calling
1-800-481-6494.

Aquellas personas que no hablan inglés,
o tienen limitaciones para leer, hablar
o entender inglés, podrían recibir servicios
de interpretación si los solicitan llamando al
1-800-481-6494.



Attn: Sean Epperson
NCDOT Highway Division 10
716 w. Main Street
Albemarle, NC 28001

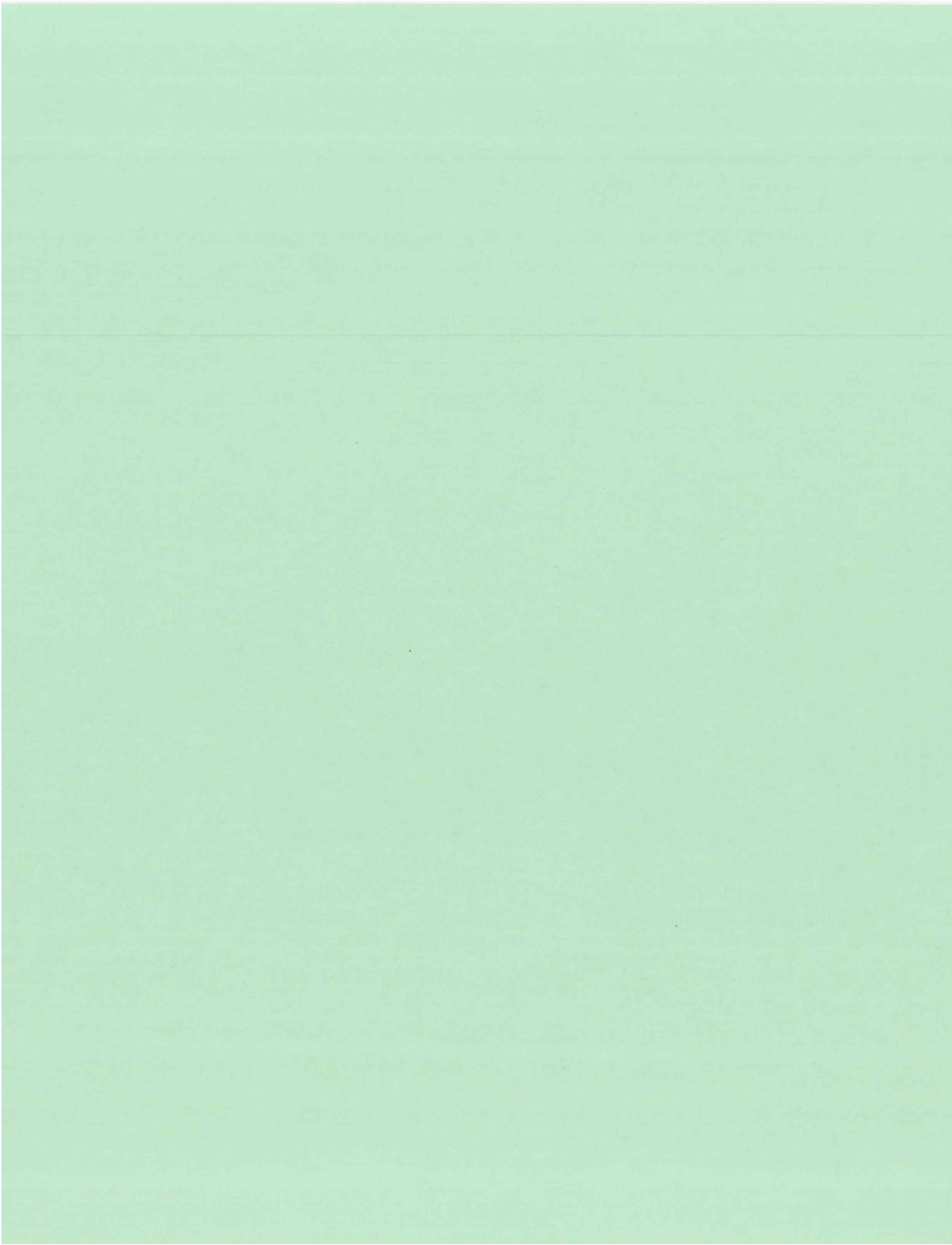


State Transportation Improvement Program

Project No. U-5907

Proposed extension of Potts Street to Sloan Street, including addition of a multiuse trail on Potts Street from N.C. 115 to Griffith Street, and addition of a roundabout at the Sloan Street / Griffith Street intersection.

Connecting people, products, and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina





NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

MANDY COHEN, MD, MPH • Secretary

MARK T. BENTON • Assistant Secretary for Public Health,
Division of Public Health

November 4, 2019

Mr. Matt Ingalls
Senior Project Manager
Hart Hickman, Inc.
2923 South Tryon Street
Suite 100
Charlotte, NC 28203

Subject: Phase II Asbestos Investigation for NC DOT Project in Davidson, North Carolina

Dear Mr. Ingalls:

On October 17, 2019 Mr. Gordon Box with NC DOT emailed me Hart Hickman's (H&H) proposal for the DOT project in Davidson, North Carolina. On October 21, 2019, I also met with you and staff from NC Brownfield and NC Superfund to discuss the developer's proposed project. Shortly after the meeting we discussed some of my comments regarding the sampling plan for the NC DOT project. As a follow up to our discussion my comments are as follows:

1. Under "Field Activities" you state H&H will have trained/licensed asbestos inspectors to conduct the soil sampling. To clarify H&H will need NC accredited asbestos inspectors on-site to determine sampling locations and oversee the collection of soil samples. The other individuals, drilling contractor, transporter of potential asbestos waste who will potentially disturb asbestos will need to meet OSHA's asbestos training requirements under the OSHA Asbestos Construction Standard.
2. Under "Field Activities" you state that a soil sample will be collected at 50 foot intervals and then at 100 foot intervals along Potts Street. Previous experience with sampling in this area shows that if asbestos materials are present the distribution of the asbestos is not uniform in either areas. When collecting soil samples directly from the soil, with no asphalt or concrete present, the NC accredited asbestos inspector will need to perform a thorough visual inspection to determine if samples of asbestos building materials are present and then collect samples of soil material to established depths to determine where the asbestos is no longer identified. This may mean keeping the 50 foot interval sampling plan may not work and adjustments may be needed.

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH

LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov • TEL: 919-707-5950 • FAX: 919-870-4808

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

Mr. Matt Ingalls
Hart Hickman
November 4, 2019
Page 2

You have also stated that a soil sample will be collected at 100 foot intervals along Potts Street. The same consideration should be thought through when using an exact sampling scheme. Adjustments may be needed.

3. Under "Field Activities" you state that drums will be used to containerize soil cuttings, decontaminated water, plastic and PPE. NC Division of Solid Waste does not allow drums containing waste to enter the landfill for disposal. Disposal of asbestos waste or materials contaminated with asbestos are disposed of in asbestos labelled waste bags.
4. After completion of the soil sampling a map will need to be created to document all positive locations where asbestos was identified and the depth where the asbestos is no longer detected.

If you have any questions, please feel free to contact me at (919) 707-5972.

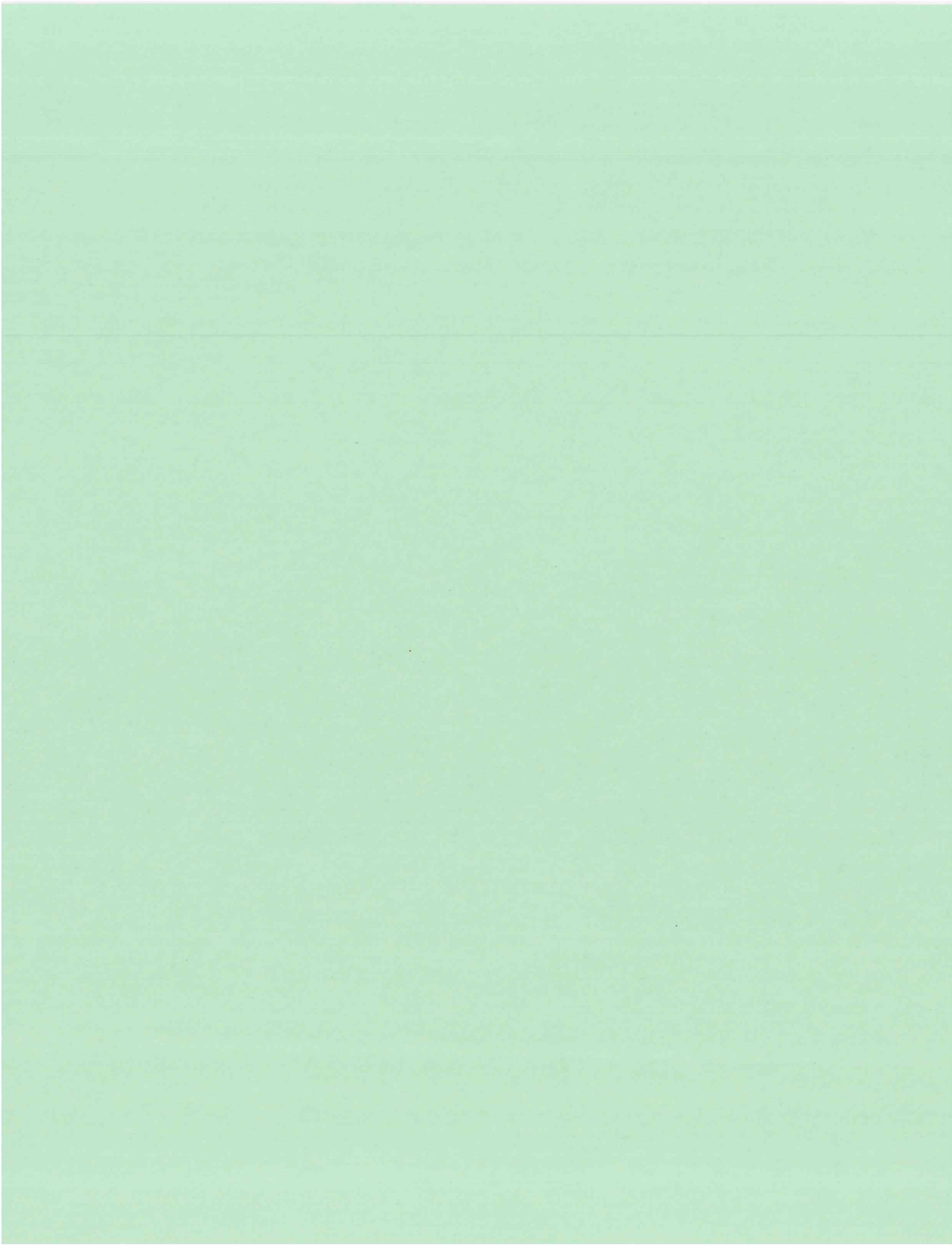
Sincerely,



Jeffery W. Dellinger
Industrial Hygiene Consultant Supervisor
Health Hazards Control Unit

JWD/jwd

cc: Gordon Box, NC DOT
Carolyn Minnich, NC Brownfields
Miguel Alvalle, NC Superfund



Via Email

November 18, 2019

NC Department of Health and Human Services
Health Hazards Control Unit
1912 Mail Service Center
Raleigh, NC 27699-1912

Attention: Mr. Jeffery Dellinger

Re: Phase II Asbestos Investigation
NC DOT State Project: U-5907
WBS Element No.: 46452.1.1
Mecklenburg County, Davidson, North Carolina
H&H Project No. ROW-603

Dear Jeffery:

Thank you for providing comments in your letter (attached) dated November 4, 2019 for our proposed sampling plan described in Hart & Hickman's (H&H's) *Revised Technical and Cost Proposal* dated August 30, 2019. The Technical and Cost Proposal is for Phase II Investigation Activities to determine the potential for asbestos impacts in soil due to historical activities in the vicinity of proposed sidewalk and road improvement areas for NC DOT State Project U-5907 in Davidson, NC. Your comments are numbered and in italics below followed by H&H's response.

- 1. Under "Field Activities" you state H&H will have trained/licensed asbestos inspectors to conduct the soil sampling. To clarify H&H will need NC accredited asbestos inspectors on-site to determine sampling locations and oversee the collection of soil samples. The other individuals, drilling contractor, transporter of potential asbestos waste who will potentially disturb asbestos will need to meet OSHA's asbestos training requirements under OSHA Asbestos Construction Standard.*

Based on your conversation with Matt Ingall's of H&H, other individuals including the coring contractor (referred to as drilling contractor above) will be required to have Two-hour Asbestos Awareness Training that is required by EPA and OSHA for maintenance/custodial staff involved in cleaning and minor maintenance tasks where asbestos containing material (ACM) may be accidentally disturbed.

- 2. Under "Field Activities" you state that a soil sample will be collected at 50 foot intervals and then 100 foot intervals along Potts Street. Previous experience with sampling in this area shows that if asbestos materials are present the distribution of the asbestos is not uniform in either areas. When collecting soil samples directly from the soil, with no*

asphalt or concrete present, the NC accredited asbestos inspector will need to perform a thorough visual inspection to determine if samples of asbestos building materials are present and then collect samples of soil material to established depths to determine where the asbestos is no longer identified. This may mean keeping the 50 foot interval sampling plan may not work and adjustments may be needed.

You have also stated that a soil sample will be collected at 100 foot intervals along Potts street. The same consideration should be thought through when using an exact sampling scheme. Adjustments may be needed.

For planning and cost estimating purposes, soil samples are proposed to be collected at approximate 50 ft intervals and 100 ft intervals (along Potts Street further from the source area). The H&H NC accredited asbestos inspector conducting the sampling activities will thoroughly inspect proposed sampling locations/areas and soil samples collected during sampling activities. If potential ACM is suspected, boring locations will be adjusted to sample ACM suspect areas. As mentioned in the sampling work plan, borings will be biased towards areas with the potential for asbestos impacts and additional samples may be collected to delineate identified areas of ACM or suspect ACM based on visual obseravation. In addition, additional sampling may be conducted to delineate soil that is impacted with asbestos based on laboratory analytical results. Please note soil samples will generally be collected within the proposed cut depth for DOT construction activities. No additional sampling will be conducted in soil borings to determine the vertical extent of impacted soil.

- 3. Under "Field Activities" you state that the drums will be used to containerize soil cuttings, decontaminated water, plastic and PPE. NC Division of Soild Waste does not allow drums containing waste to enter the landfill for disposal. Disposal of asbestos waste or materials contaminated with asbestos are disposed of in asbestos labelled waste bags.*

Drums will be used to store soil, water, and PPE on site and for transporting the waste to the disposal facility. Plastic drum liners (waste bags) will be used in the soil and PPE drums. The drums will be transported to Waste Management's Disposal facility in Emelle, Alabama for proper disposal.

- 4. After completion of the soil sampling a map will need to be created to document all positive locations where asbestos was identified and the depth where the asbestos is no longer detected.*

As mentioned in the work plan, a report (including figures documenting analytical results) will be prepared to document the sampling activities.

Also, as mentioned in our response to No.2 above, soil samples will generally be collected within the proposed cut depth for DOT construction activities. The intent of

Mr. Jeffery Dellinger

November 18, 2019

Page 3

our sampling activities is to determine the potential for asbestos impacts within proposed NC DOT cut areas. With the exception of proposed drainage ditch areas, no additional sampling will be conducted in soil borings to determine the vertical extent of impacted soil. As discussed in the work plan, additional soil sampling will be conducted beneath the proposed cut depth near proposed drainage ditches (below proposed ditch grade level) to determine if soil is impacted at the future ditch grade and just below this interval for later demarcation of impacted soil (if encountered) during construction activities.

Should you have any questions or need additional information, please do not hesitate to contact us at (704) 586-0007.

Sincerely,
Hart & Hickman, PC

A handwritten signature in black ink, appearing to read 'David Graham', written over a horizontal line.

David Graham, PG
Senior Project Geologist

A handwritten signature in black ink, appearing to read 'Matt Bramblett', written over a horizontal line.

Matt Bramblett, PE
Principal

Attachment

Appendix D
Soil Boring Logs



Client: NC DOT
 Project: ROW-605
 Address: Davidson, NC

BORING LOG
 Boring No. PTS-1
 Page: 1 of 1

Drilling Start Date: 12/03/2019
 Drilling End Date: 12/03/2019
 Drilling Company: H&H
 Drilling Method: Hand Auger
 Drilling Equipment: Hand Auger
 Driller: Robert Sorgel
 Logged By: Robert Sorgel

Boring Depth (ft): 1.0
 Boring Diameter (in): 2.00
 Sampling Method(s): Grab
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-1 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-2**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-2 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-3**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-4**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-5**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-6**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-7**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-8**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (6")			0
								(0.5') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-9**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (12")			0
								(1') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-9 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-10**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.33') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:




Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-11**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4") (0.33') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-11 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-12**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-12 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-13**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-13 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:





Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-14**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Asphalt: (3")			0
								(0.25') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

PTS-14 (0-1)

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-15**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-15 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-16**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-16 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-17**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-17 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-18**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-18 (0-1)	0
										PTS-18 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-19**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-19 (0-1)	0
										PTS-19 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-20**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-20 (0-1)	0
										PTS-20 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-21**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-21 (0-1)	0
										PTS-21 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-22**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-22 (0-1)	0
										PTS-22 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **PTS-23**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.3') SILT with sand (ML); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		PTS-23 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-1**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); few medium sand, mostly silt, soft, dry, pale reddish-brown		EXT-1 (0-1)	0
										EXT-1 (1-2)	
								(2') Silty SAND (SM); some fine-medium grained sand, some silt, little clay, dense, dry, pale yellowish-brown		EXT-1 (2-3)	
										EXT-1 (3-4)	
5											
										EXT-1 (5-5.5)	5
								(5.5') Boring terminated			
10											10

NOTES: Sample interval 5-5.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-2**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); few medium sand, mostly silt, trace clay, soft, dry, pale reddish-brown		EXT-2 (0-1)	0
										EXT-2 (1-2)	
								(2') Elastic SILT (MH); trace fine-medium sand, mostly silt, little clay, medium stiff, moist, light reddish-brown		EXT-2 (2-3)	
										EXT-2 (4-4.5)	
5								(4.5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-3**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **7.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		EXT-3 (0-1)	0
								(2') Lean CLAY (CL); trace fine sand, few silt, mostly clay, medium plasticity, stiff, dry, pale reddish-brown		EXT-3 (1.5-2.5)	
								(4.5') Poorly graded SAND (SP); mostly fine-medium grained sand, some silt, trace clay, very dense, dry, pale yellowish-brown, sapprolite		EXT-3 (3.5-4.5) EXT-3 (4.5-5.5)	5
								(7') Boring terminated		EXT-3 (6.5-7)	
10											10

NOTES: Sample interval 6.5-7 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-4**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **7.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, trace clay, soft, dry, light reddish-brown		EXT-4 (0-1)	0
								(2') Lean CLAY (CL); little silt, mostly clay, medium plasticity, stiff, dry, light reddish-brown		EXT-4 (2-3)	
								(5') Poorly graded SAND (SP); mostly medium grained sand, little silt, trace clay, dense, dry, pale yellowish-brown, sapprolite		EXT-4 (4-5) EXT-4 (5-6)	5
								(7.5') Boring terminated		EXT-4 (7-7.5)	
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-5**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **8.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, little clay, soft, dry, pale reddish-brown		EXT-5 (0-1)	0
								(2.5') SILT (ML); little fine-medium sand, mostly silt, few clay, medium stiff, dry, pale reddish-brown		EXT-5 (3-4)	
								(4') Poorly graded SAND (SP); mostly medium grained sand, little silt, few clay, dense, dry, pale yellowish-brown, sapprolite			5
								(7') Poorly graded SAND (SP); mostly medium grained sand, few silt, trace clay, very dense, dry, pale yellowish-brown, sapprolite		EXT-5 (7-8)	
								(8') Boring terminated			10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-6**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **8.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, soft, dry, pale reddish-brown		EXT-6 (0-1)	0
								(3') Elastic SILT with sand (MH); little medium sand, mostly silt, little clay, medium stiff, dry, pale reddish-brown		EXT-6 (2.5-3.5)	
5								(6') Elastic SILT with sand (MH); little medium sand, mostly silt, little clay, medium stiff, wet, pale reddish-brown		EXT-6 (5-6)	5
										EXT-6 (6-7)	
										EXT-6 (8-8.5)	
10								(8.5') Boring terminated			10

NOTES: Sample interval 8-8.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-7**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); trace fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		EXT-7 (0-1)	0
								(1') Sandy SILT (ML); some medium sand, mostly silt, stiff, dry, pale yellowish-brown			
								(2.5') Silty SAND (SM); mostly medium grained sand, little silt, dense, dry, pale yellowish-brown, sapolite		EXT-7 (1.5-2.5)	
										EXT-7 (3-4)	
										EXT-7 (4-5)	
5								(4.5') Poorly graded SAND with silt (SP-SM); mostly medium grained sand, few silt, dense, dry, pale yellowish-brown, sapolite			5
										EXT-7 (6-6.5)	
								(6.5') Boring terminated			
10											10

NOTES: Sample interval 6-6.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-8**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **7.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, few clay, soft, dry, pale reddish-brown		EXT-8 (0-1)	0
								(3') Silty SAND (SM); some medium grained sand, some silt, dense, dry, pale yellowish-brown, sapprolite		EXT-8 (3-4)	
5											5
										EXT-8 (6-7)	
								(7') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-9**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, few clay, soft, dry, light reddish-brown		EXT-9 (0-1)	0
										EXT-9 (1.5-2.5)	
										EXT-9 (3-4)	
								(4') Elastic SILT (MH); few fine-medium sand, mostly silt, little clay, stiff, dry, light reddish-brown		EXT-9 (4-5)	5
										EXT-9 (6-6.5)	
								(6.5') Boring terminated			10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-10**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, moist, light reddish-brown		EXT-10 (0-1)	0
										EXT-10 (1.5-2.5)	
								(3') Fat CLAY (CH); few fine-medium sand, some silt, mostly clay, high plasticity, very stiff, wet, light yellowish-brown		EXT-10 (3-4)	
										EXT-10 (4-5)	
5								(5') Silty SAND (SM); mostly medium grained sand, little silt, little clay, very dense, moist, light yellowish-brown			5
										EXT-10 (6-6.5)	
								(6.5') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-11**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, few clay, soft, dry, light reddish-brown		EXT-11 (0-1)	0
								(1.5') Lean CLAY (CL); few fine-medium sand, some silt, mostly clay, medium plasticity, stiff, moist, light reddish-brown		EXT-11 (1.5-2.5)	
								(3') Lean CLAY (CL); little silt, mostly clay, medium plasticity, very stiff, wet, light reddish-brown		EXT-11 (3-4)	
								(4') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-12**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, little clay, soft, dry, light reddish-brown		EXT-12 (0-1)	0
										EXT-12 (1-2)	
								(3') Elastic SILT (MH); few fine-medium sand, mostly silt, some clay, medium stiff, dry, light reddish-brown		EXT-12 (2.5-3.5)	
										EXT-12 (3.5-4.5)	
5											
										EXT-12 (5.5-6)	
								(6') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-13**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **3.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); mostly silt, little clay, soft, dry, light reddish-brown, pieces of floor tile		EXT-13 (0-1)	0
										EXT-13 (1-2)	
										EXT-13 (2-3)	
								(3') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-14**
 Page: **1 of 1**

Drilling Start Date: **12/02/2019**
 Drilling End Date: **12/02/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown, pieces of floor tile		EXT-14 (0-1)	0
								(2.5') Elastic SILT (MH); few fine-medium sand, mostly silt, some clay, medium stiff, dry, light reddish-brown, pieces of floor tile		EXT-14 (1.5-2.5)	
								(4') Boring terminated		EXT-14 (3-4)	
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-15**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		EXT-15 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **EXT-16**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		EXT-16 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-1**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); trace fine gravel, little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-1 (0-1)	0
										SLN-1 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-2**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.3') SILT (ML); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-3**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-3 (0-1)	0
								(3') Elastic SILT (MH); few fine-medium sand, mostly silt, some clay, soft, dry, light yellowish-brown		SLN-3 (2.5-3.5)	
								(5') Elastic SILT (MH); mostly silt, some clay, soft, moist, pale yellowish-brown		SLN-3 (5-6)	5
								(6') Boring terminated			10

NOTES:

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **8.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (3")			0
								(0.3') SILT (ML); few medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-4 (0-1)	
								(2.5') SILT with sand (ML); few fine gravel, little medium-coarse sand, mostly silt, few clay, soft, dry, pale yellowish-brown		SLN-4 (3-4)	
5								(5') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, moist, pale yellowish-brown			5
								(7') Elastic SILT (MH); few fine-medium sand, mostly silt, some clay, soft, moist, light reddish-brown		SLN-4 (7-8)	
								(8') Boring terminated			10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-5**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-5 (0-1)	0
										SLN-5 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: NC DOT
 Project: ROW-605
 Address: Davidson, NC

BORING LOG
 Boring No. SLN-6
 Page: 1 of 1

Drilling Start Date: 12/03/2019
 Drilling End Date: 12/03/2019
 Drilling Company: H&H
 Drilling Method: Hand Auger
 Drilling Equipment: Hand Auger
 Driller: Robert Sorgel
 Logged By: Robert Sorgel

Boring Depth (ft): 1.0
 Boring Diameter (in): 2.00
 Sampling Method(s): Grab
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT (ML); few medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-6 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-7**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-7 (0-1)	0
										SLN-7 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-8**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-8 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-9**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-9 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-10**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-10 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:





Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-11**
 Page: **1 of 1**

Drilling Start Date: **12/03/2019**
 Drilling End Date: **12/03/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (6")			0
								(0.5') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light yellowish-brown		SLN-11 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-12**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (6")		SLN-12 (0-1)	0
								(0.5') SILT (ML); trace fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown			
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-13**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT (ML); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-13 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-14**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-14 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-15**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT (ML); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-15 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-16**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-16 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-17**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-17 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-18**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-18 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-19**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-19 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-20**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-20 (0-1)	
								(2') Boring terminated		SLN-20 (1-2)	
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-21**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		SLN-21 (0-1)	0
										SLN-21 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-22**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-22 (0-1)	
								(2') Boring terminated		SLN-22 (1-2)	
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **SLN-23**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		SLN-23 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-1**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-1 (0-1)	0
										GRF-1 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-2**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-2 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-3**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-3 (0-1)	0
										GRF-3 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-4**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-4 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-5**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, trace clay, soft, dry, light reddish-brown		GRF-5 (0-1)	0
										GRF-5 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-6**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-6 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-7**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); trace fine-medium sand, mostly silt, some clay, soft, dry, light reddish-brown		GRF-7 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-8**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, trace clay, soft, dry, light reddish-brown		GRF-8 (0-1)	0
										GRF-8 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-9**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); trace fine sand, mostly silt, some clay, soft, dry, light reddish-brown		GRF-9 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-10**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-10 (0-1)	0
										GRF-10 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-11**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-11 (0-1)	0
										GRF-11 (1.5-2.5)	
								(2.5') Elastic SILT (MH); trace fine sand, mostly silt, some clay, medium stiff, dry, pale reddish-brown		GRF-11 (3-4)	
								(4') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-12**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **3.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-12 (0-1)	0
								(2') Elastic SILT (MH); trace fine sand, mostly silt, some clay, soft, dry, pale reddish-brown		GRF-12 (1-2)	
								(3.5') Boring terminated		GRF-12 (3-3.5)	
10											10

NOTES: Sample interval 3-3.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-13**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT (MH); few fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-13 (0-1)	0
										GRF-13 (2-3)	
								(3') Elastic SILT (MH); mostly silt, some clay, stiff, dry, pale reddish-brown			
										GRF-13 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-14 (0-1)	0
								(2.5') Elastic SILT (MH); trace fine sand, mostly silt, some clay, stiff, dry, pale reddish-brown		GRF-14 (2-3)	
								(4') Lean CLAY (CL); few silt, mostly clay, medium plasticity, very stiff, dry, pale yellowish-brown		GRF-14 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-15**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-15 (0-1)	0
								(2') Lean CLAY (CL); some silt, mostly clay, medium plasticity, medium stiff, dry, pale reddish-brown		GRF-15 (2-3)	
										GRF-15 (3.5-4.5)	
5								(4.5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-16**
 Page: **1 of 1**

Drilling Start Date: **12/04/2019**
 Drilling End Date: **12/04/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT (ML); few fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-16 (0-1)	0
										GRF-16 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-17**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-17 (0-1)	0
										GRF-17 (1-2)	
								(2') Boring terminated			
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-18**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-18 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		GRF-18 (2-3)	
								(4') Lean CLAY (CL); little silt, mostly clay, medium plasticity, stiff, dry, pale reddish-brown		GRF-18 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-19**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-19 (0-1)	0
								(3') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		GRF-19 (2-3)	
5								(5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		GRF-19 (4.5-5.5)	5
								(5.5') Boring terminated			
10											10

NOTES:



Client: NC DOT
 Project: ROW-605
 Address: Davidson, NC

BORING LOG
 Boring No. GRF-20
 Page: 1 of 1

Drilling Start Date: 12/06/2019
 Drilling End Date: 12/06/2019
 Drilling Company: H&H
 Drilling Method: Hand Auger
 Drilling Equipment: Hand Auger
 Driller: Robert Sorgel
 Logged By: Robert Sorgel

Boring Depth (ft): 5.0
 Boring Diameter (in): 2.00
 Sampling Method(s): Grab
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-20 (0-1)	0
										GRF-20 (2-3)	
								(3') Elastic SILT (MH); mostly silt, some clay, stiff, dry, light reddish-brown			
										GRF-20 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-21**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-21 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		GRF-21 (2-3)	
								(4') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		GRF-21 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-22**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-22 (0-1)	0
								(1') Elastic SILT (MH); trace fine sand, mostly silt, some clay, medium stiff, dry, light reddish-brown			
								(3') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		GRF-22 (2-3)	
										GRF-22 (3.5-4.5)	
5								(4.5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-23**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-23 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		GRF-23 (2-3)	
								(4.5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		GRF-23 (4-5)	
5								(5') Boring terminated			5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-24**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-24 (0-1)	0
										GRF-24 (1.5-2.5)	
								(2.5') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown			
										GRF-24 (3-4)	
								(4') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-25**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-25 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-26**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-26 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, little clay, medium stiff, dry, light reddish-brown		GRF-26 (1.5-2.5)	
								(4') Boring terminated		GRF-26 (3-4)	
5											5
10											10

NOTES:



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-27**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-27 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-28**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-28 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-29**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-29 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-30**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-30 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-31**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-31 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-32**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		GRF-32 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **GRF-33**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **2.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		GRF-33 (0-1)	0
										GRF-33 (1-2)	
								(2') Boring terminated			
5											5
10											10

NOTES: .

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-1 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, pale reddish-brown		BTY-1 (2.5-3.5)	
5								(5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		BTY-1 (5-6)	5
								(6') Boring terminated			
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-2**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **5.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-2 (0-1)	0
								(2.5') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		BTY-2 (2-3)	
								(4.5') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		BTY-2 (4.5-5.5)	5
								(5.5') Boring terminated			
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-3**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-3 (0-1)	0
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-4**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **3.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-4 (0-1)	0
										BTY-4 (1-2)	
								(2.5') Elastic SILT (MH); trace fine sand, mostly silt, some clay, medium stiff, dry, light reddish-brown			
										BTY-4 (3-3.5)	
								(3.5') Boring terminated			
5											5
10											10

NOTES: Sample interval 3-3.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-5**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **3.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Elastic SILT with sand (MH); little fine-medium sand, mostly silt, little clay, soft, dry, light reddish-brown		BTY-5 (0-1)	0
								(2') Elastic SILT (MH); trace fine-medium sand, mostly silt, little clay, medium stiff, dry, light reddish-brown		BTY-5 (1-2)	
								(3.5') Boring terminated		BTY-5 (3-3.5)	
10											10

NOTES: Sample interval 3-3.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-6**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-6 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-7**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **4.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-7 (0-1)	0
										BTY-7 (1-2)	
								(2') Elastic SILT (MH); mostly silt, some clay, stiff, dry, light reddish-brown		BTY-7 (2-3)	
										BTY-7 (4-4.5)	
5								(4.5') Boring terminated			5
10											10

NOTES: Sample interval 4-4.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-8**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **1.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete: (4")			0
								(0.3') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-8 (0-1)	
								(1') Boring terminated			
5											5
10											10

NOTES: .



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-9**
 Page: **1 of 1**

Drilling Start Date: **12/05/2019**
 Drilling End Date: **12/05/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **3.5**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-9 (0-1)	0
										BTY-9 (1-2)	
								(3') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, pale reddish-brown		BTY-9 (3-3.5)	
								(3.5') Boring terminated			
10											10

NOTES: Sample interval 3-3.5 ft not analyzed by the laboratory.



Client: **NC DOT**
 Project: **ROW-605**
 Address: **Davidson, NC**

BORING LOG
 Boring No. **BTY-10**
 Page: **1 of 1**

Drilling Start Date: **12/06/2019**
 Drilling End Date: **12/06/2019**
 Drilling Company: **H&H**
 Drilling Method: **Hand Auger**
 Drilling Equipment: **Hand Auger**
 Driller: **Robert Sorgel**
 Logged By: **Robert Sorgel**

Boring Depth (ft): **6.0**
 Boring Diameter (in): **2.00**
 Sampling Method(s): **Grab**
 DTW During Drilling (ft):
 DTW After Drilling (ft):
 Ground Surface Elev. (ft):
 Location (X,Y):

DEPTH (ft)	LITHOLOGY	WATER LEVEL	BORING COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') SILT with sand (ML); little fine-medium sand, mostly silt, few clay, soft, dry, light reddish-brown		BTY-10 (0-1)	0
								(2') Elastic SILT (MH); mostly silt, some clay, medium stiff, dry, light reddish-brown		BTY-10 (1-2)	
								(4') Lean CLAY (CL); some silt, mostly clay, medium plasticity, stiff, dry, pale yellowish-brown		BTY-10 (2.5-3.5) BTY-10 (3.5-4.5)	
5								(6') Boring terminated		BTY-10 (5.5-6)	5
10											10

NOTES: Sample interval 5.5-6 ft not analyzed by the laboratory.

Appendix E
Laboratory Analytical Reports



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041935338

Customer ID: TURN51

Customer PO:

Project ID:

Attention: David Graham
Hart & Hickman
2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007

Fax:

Received: 12/11/2019 11:15 AM

Analysis Date: 12/27/2019 - 02/17/2020

Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PTS-1 (0-1) 041935338-0001	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-2 (0-1) 041935338-0002	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-3 (0-1) 041935338-0003	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-4 (0-1) 041935338-0004	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-5 (0-1) 041935338-0005	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-6 (0-1) 041935338-0006	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-7 (0-1) 041935338-0007	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-8 (0-1) 041935338-0008	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-9 (1-2) 041935338-0009	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-10 (0-1) 041935338-0010	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041935338

Customer ID: TURN51

Customer PO:

Project ID:

Attention: David Graham
Hart & Hickman
2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007
Fax:
Received: 12/11/2019 11:15 AM
Analysis Date: 12/27/2019 - 02/17/2020
Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PTS-11 (0-1) 041935338-0011	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-12 (0-1) 041935338-0012	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-13 (0-1) 041935338-0013	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-14 (0-1) 041935338-0014	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-15 (0-1) 041935338-0015	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-16 (0-1) 041935338-0016	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-17 (0-1) 041935338-0017	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
PTS-18 (0-1) 041935338-0018	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-18 (1-2) 041935338-0019	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-19 (0-1) 041935338-0020	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041935338

Customer ID: TURN51

Customer PO:

Project ID:

Attention: David Graham
Hart & Hickman
2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007
Fax:
Received: 12/11/2019 11:15 AM
Analysis Date: 12/27/2019 - 02/17/2020
Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PTS-19 (1-2) 041935338-0021	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-20 (0-1) 041935338-0022	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
PTS-20 (1-2) 041935338-0023	Soil	Tan Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
PTS-21 (0-1) 041935338-0024	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-21 (1-2) 041935338-0025	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
PTS-22 (0-1) 041935338-0026	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
PTS-22 (1-2) 041935338-0027	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
PTS-23 (0-1) 041935338-0028	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-1 (0-1) 041935338-0029	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-1 (1-2) 041935338-0030	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041935338

Customer ID: TURN51

Customer PO:

Project ID:

Attention: David Graham
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2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007
Fax:
Received: 12/11/2019 11:15 AM
Analysis Date: 12/27/2019 - 02/17/2020
Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-1 (2-3) 041935338-0031	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-1 (3-4) 041935338-0032	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-2 (0-1) 041935338-0034	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-2 (1-2) 041935338-0035	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-2 (2-3) 041935338-0036	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-2 (4-4.5) 041935338-0037	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-3 (0-1) 041935338-0038	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-3 (1.5-2.5) 041935338-0039	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-3 (3.5-4.5) 041935338-0040	Soil	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-3 (4.5-5.5) 041935338-0041	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



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EMSL Order: 041935338

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Received: 12/11/2019 11:15 AM
Analysis Date: 12/27/2019 - 02/17/2020
Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-4 (0-1) 041935338-0043	Soil	Brown Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-4 (2-3) 041935338-0044	Soil	Brown Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-4 (4-5) 041935338-0045	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-4 (5-6) 041935338-0046	Soil	Tan Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-4 (7-7.5) 041935338-0047	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-5 (0-1) 041935338-0048	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-5 (3-4) 041935338-0049	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-5 (7-8) 041935338-0050	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-6 (0-1) 041935338-0051	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-6 (2.5-3.5) 041935338-0052	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-6 (5-6) 041935338-0053	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-6 (6-7) 041935338-0054	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-7 (0-1) 041935338-0056	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-7 (1.5-2.5) 041935338-0057	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-7 (3-4) 041935338-0058	Soil	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-7 (4-5) 041935338-0059	Soil	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-8 (0-1) 041935338-0061	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-8 (3-4) 041935338-0062	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-8 (6-7) 041935338-0063	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-9 (0-1) 041935338-0064	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-9 (1.5-2.5) 041935338-0065	Soil	Tan Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-9 (3-4) 041935338-0066	Soil	Tan Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-9 (4-5) 041935338-0067	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-9 (6-6.5) 041935338-0068	Soil	Brown Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	0.50% Chrysotile
EXT-10 (0-1) 041935338-0069	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-10 (1.5-2.5) 041935338-0070	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-10 (3-4) 041935338-0071	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-10 (4-5) 041935338-0072	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-10 (6-6.5) 041935338-0073	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-11 (0-1) 041935338-0074	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-11 (1.5-2.5) 041935338-0075	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-11 (3-4) 041935338-0076	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-12 (0-1) 041935338-0077	Soil	Tan Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-12 (1-2) 041935338-0078	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-12 (2.5-3.5) 041935338-0079	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-12 (3.5-4.5) 041935338-0080	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-12 (5.5-6) 041935338-0081	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-13 (0-1) 041935338-0082	Soil	Brown Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-13 (1-2) 041935338-0083	Soil	Tan Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-13 (2-3) 041935338-0084	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-14 (0-1) 041935338-0085	Soil	Tan Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
EXT-14 (1.5-2.5) 041935338-0086	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
EXT-14 (3-4) 041935338-0087	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-1 (0-1) 041935338-0088	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-1 (1-2) 041935338-0089	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-2 (0-1) 041935338-0090	Soil	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-3 (0-1) 041935338-0091	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-3 (2.5-3.5) 041935338-0092	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-3 (5-6) 041935338-0093	Soil	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-4 (0-1) 041935338-0094	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SLN-4 (3-4) 041935338-0095	Soil	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-4 (7-8) 041935338-0096	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-5 (0-1) 041935338-0097	Soil	Brown Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
SLN-5 (1-2) 041935338-0098	Soil	Brown Fibrous Homogeneous		98.8% Non-fibrous (Other)	1.25% Chrysotile
SLN-6 (0-1) 041935338-0099	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-7 (0-1) 041935338-0100	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-7 (1-2) 041935338-0101	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-8 (0-01) 041935338-0102	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-9 (0-01) 041935338-0103	Soil	Brown Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
SLN-10 (0-01) 041935338-0104	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SLN-11 (0-01) 041935338-0105	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-12 (0-01) 041935338-0106	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-13 (0-01) 041935338-0107	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-14 (0-01) 041935338-0108	Soil	Brown Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
SLN-15 (0-01) 041935338-0109	Soil	Brown Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
SLN-16 (0-01) 041935338-0110	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-17 (0-01) 041935338-0111	Soil	Brown Non-Fibrous Homogeneous		99.75% Non-fibrous (Other)	0.25% Chrysotile
SLN-18 (0-01) 041935338-0112	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-19 (0-01) 041935338-0113	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-20 (0-01) 041935338-0114	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SLN-20 (1-2) 041935338-0115	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-21 (0-1) 041935338-0116	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-21 (1-2) 041935338-0117	Soil	Tan Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
SLN-22 (0-1) 041935338-0118	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-22 (1-2) 041935338-0119	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
SLN-23 (0-1) 041935338-0120	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-1 (0-1) 041935338-0121	Soil	Brown Fibrous Homogeneous		99.50% Non-fibrous (Other)	0.50% Chrysotile
GRF-1 (1-2) 041935338-0122	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-2 (0-1) 041935338-0123	Soil	Brown Fibrous Homogeneous		97.8% Non-fibrous (Other)	2.25% Chrysotile
GRF-3 (0-1) 041935338-0124	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



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Analysis Date: 12/27/2019 - 02/17/2020
Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-3 (1-2) 041935338-0125	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-4 (0-1) 041935338-0126	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-5 (0-1) 041935338-0127	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-5 (1-2) 041935338-0128	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-6 (0-1) 041935338-0129	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-7 (0-1) 041935338-0130	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-8 (0-1) 041935338-0131	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-8 (1-2) 041935338-0132	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-9 (0-1) 041935338-0133	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-10 (0-1) 041935338-0134	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-10 (1-2) 041935338-0135	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-11 (0-1) 041935338-0136	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-11 (1.5-2.5) 041935338-0137	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-11 (3-4) 041935338-0138	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-12 (0-1) 041935338-0139	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-12 (1-2) 041935338-0140	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-13 (0-1) 041935338-0142	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-13 (2-3) 041935338-0143	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-13 (4-5) 041935338-0144	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-14 (0-1) 041935338-0145	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-14 (2-3) 041935338-0146	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-14 (4-5) 041935338-0147	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-15 (0-1) 041935338-0148	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-15 (2-3) 041935338-0149	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-15 (3.5-4.5) 041935338-0150	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-16 (0-1) 041935338-0151	Soil	Brown/Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-16 (1-2) 041935338-0152	Soil	Brown/Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-17 (0-1) 041935338-0153	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-17 (1-2) 041935338-0154	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-18 (0-1) 041935338-0155	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-18 (2-3) 041935338-0156	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-18 (4-5) 041935338-0157	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-19 (0-1) 041935338-0158	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-19 (2-3) 041935338-0159	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-19 (4.5-5.5) 041935338-0160	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-20 (0-1) 041935338-0161	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-20 (2-3) 041935338-0162	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-20 (4-5) 041935338-0163	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-21 (0-1) 041935338-0164	Soil	Tan Non-Fibrous Homogeneous	5% Cellulose	95.0% Non-fibrous (Other)	None Detected
GRF-21 (2-3) 041935338-0165	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-21 (4-5) 041935338-0166	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-22 (0-1) 041935338-0167	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-22 (2-3) 041935338-0168	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-22 (3.5-4.5) 041935338-0169	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-23 (0-1) 041935338-0170	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-23 (2-3) 041935338-0171	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-23 (4-5) 041935338-0172	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-24 (0-1) 041935338-0173	Soil	Tan Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	0.50% Chrysotile
GRF-24 (1.5-2.5) 041935338-0174	Soil	Tan Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
GRF-24 (3-4) 041935338-0175	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-25 (0-1) 041935338-0176	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-26 (0-1) 041935338-0177	Soil	Tan/Red Fibrous Homogeneous	5% Cellulose	95.0% Non-fibrous (Other)	None Detected
GRF-26 (1.5-2.5) 041935338-0178	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-26 (3-4) 041935338-0179	Soil	Tan Non-Fibrous Homogeneous	3% Cellulose	97.0% Non-fibrous (Other)	None Detected
GRF-27 (0-1) 041935338-0180	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-28 (0-1) 041935338-0181	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
GRF-29 (0-1) 041935338-0182	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
GRF-30 (0-1) 041935338-0183	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
GRF-31 (0-1) 041935338-0184	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
GRF-32 (0-1) 041935338-0185	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
GRF-33 (0-1) 041935338-0186	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
GRF-33 (1-2) 041935338-0187	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-1 (0-1) 041935338-0188	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-1 (2.5-3.5) 041935338-0189	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-1 (5-6) 041935338-0190	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
BTY-2 (0-1) 041935338-0191	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-2 (2-3) 041935338-0192	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-2 (4.5-5.5) 041935338-0193	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-3 (0-1) 041935338-0194	Soil	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-4 (0-1) 041935338-0195	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
BTY-4 (1-2) 041935338-0196	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-5 (0-1) 041935338-0198	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-5 (1-2) 041935338-0199	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-6 (0-1) 041935338-0201	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-7 (0-1) 041935338-0202	Soil	Brown Fibrous Homogeneous	10% Synthetic	90.0% Non-fibrous (Other)	None Detected
BTY-7 (1-2) 041935338-0203	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-7 (2-3) 041935338-0204	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-8 (0-1) 041935338-0206	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-9 (0-1) 041935338-0207	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-9 (1-2) 041935338-0208	Soil	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041935338

Customer ID: TURN51

Customer PO:

Project ID:

Attention: David Graham
Hart & Hickman
2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007

Fax:

Received: 12/11/2019 11:15 AM

Analysis Date: 12/27/2019 - 02/17/2020

Collected: 12/03/2019

Project: ROW-605

Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EXT-15 (0-1) 041935338-0210	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
EXT-16 (0-1) 041935338-0211	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<0.25% Chrysotile
BTY-10 (0-1) 041935338-0212	Soil	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-10 (1-2) 041935338-0213	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-10 (2.5-3.5) 041935338-0214	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
BTY-10 (3.5-4.5) 041935338-0215	Soil	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

Analyst(s)

Andrew Burke (18)

Benjamin Verghese (23)

Chelsey Donnelly (6)

Juli Patel (16)

Nancy Stalter (38)

Quynh Vu (67)

Will DiBella (38)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 02/17/2020 22:30:25 Replaces amended report from: 01/28/2020 18:44:30 Reason Code: Client-Additional Analysis



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

PHONE:
FAX:

Company Name: HART & HICKMAN, P.C.		EMSL Customer ID:	
Street: 2923 S. TRYON STREET STE. 100		City: CHARLOTTE	State/Province: NC
Zip/Postal Code: 28203	Country: U.S.	Telephone #: (704)586-0007	Fax #:
Report To (Name): DAVID GRAHAM		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: DGRAHAM@HARTHICKMAN.COM		Purchase Order:	
Project Name/Number: ROW-605		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: NORTH CAROLINA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
PLM - Bulk (reporting limit) <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count _ 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5	Soil/Rock/Vermiculite <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input checked="" type="checkbox"/> TEM Qualitative via Filtration Prep *** <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)
TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		Other: <input type="checkbox"/>

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: ROBERT SORGEL

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
PTS-1 (0-1)	Soil	-	12/3 950
PTS-2 (0-1)	↓	-	1005
PTS-3 (0-1)	↓	-	1030
PTS-4 (0-1)	↓	-	1410
PTS-5 (0-1)	↓	-	1420

Client Sample # (s):	-	Total # of Samples:
Relinquished (Client):	Date: 12/9/2019	Time:
Received (Lab): Chelera FXG-D	Date: box 4 of 4 12/11/19	Time: 1115

Comments/Special Instructions:
 FOLLOWING ANALYSIS BY EPA METHOD 800/R-93/116 USING PLM WITH MILLING PREP (400 PT COUNT), HOLD ALL SAMPLES. PENDING RESULTS, SAMPLES MAY BE ANALYZED BY TEM QUALITATIVE VIA FILTRATION PREP.
 * HOLD SAMPLES MARKED W/ "*" PENDING CONFIRMATION TO PROCEED *

*** HOLD TEM ANALYSIS PENDING CONFIRMATION ***

12/11/19 only box 4 of 4 rec'd



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA: # (Bulk)	Date/Time Sampled
PTS-6 (0-1)	SOIL	—	12/3 1320
PTS-7 (0-1)		—	1430
PTS-8 (0-1)		—	1440
PTS-9 (1-2)		—	1445
PTS-10 (0-1)		—	1505
PTS-11 (0-1)		—	1515
PTS-12 (0-1)		—	1055
PTS-13 (0-1)		—	1110
PTS-14 (0-1)		—	1530
PTS-15 (0-1)		—	1120
PTS-16 (0-1)		—	1130
PTS-17 (0-1)		—	1155
PTS-18 (0-1)		—	1235
PTS-18 (1-2)		—	1235
PTS-19 (0-1)		—	1215
PTS-19 (1-2)		—	1215
PTS-20 (0-1)		—	1245
PTS-20 (1-2)		—	1245
PTS-21 (0-1)		—	1225
PTS-21 (1-2)		—	1225
PTS-22 (0-1)		—	1300
PTS-22 (1-2)		—	1300
PTS-23 (0-1)		—	1015

*Comments/Special Instructions:

REFER TO PG. 1



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
EXT-1 (0-1)	SOIL	—	12/2 1645
EXT-1 (1-2)	↓	—	1645
EXT-1 (2-3)		—	1645
EXT-1 (3-4)		—	1645
EXT-1 (5-5.5)		—	1645
EXT-2 (0-1)		—	1125
EXT-2 (1-2)		—	1125
EXT-2 (2-3)		—	1125
EXT-2 (4-4.5)		—	1125
EXT-3 (0-1)		—	1620
EXT-3 (1-5-2.5)		—	1620
EXT-3 (3-5-4.5)		—	1620
EXT-3 (4-5-5.5)		—	1620
EXT-3 (6-5-7)		—	1620
EXT-4 (0-1)		—	1100
EXT-4 (2-3)		—	1100
EXT-4 (4-5)		—	1100
EXT-4 (5-6)		—	1100
EXT-4 (7-7.5)		—	1100
EXT-5 (0-1)		—	1550
EXT-5 (3-4)		—	1550
EXT-5 (7-8)	—	1550	
EXT-6 (0-1)	✓	—	↓ 1020

*Comments/Special Instructions:

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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):



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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
EXT-6 (2.5-3.5)	SOIL	-	12/2 1020
EXT-6 (5-6)		-	1020
EXT-6 (6-7)		-	1020
* EXT-6 (8-8.5) *		-	1020
EXT-7 (0-1)		-	1040
EXT-7 (1.5-2.5)		-	1040
EXT-7 (3-4)		-	1040
EXT-7 (4-5)		-	1040
* EXT-7 (6-6.5) *		-	1040
EXT-8 (0-1)		-	1525
EXT-8 (3-4)		-	1525
EXT-8 (6-7)		-	1525
EXT-9 (0-1)		-	1150
EXT-9 (1.5-2.5)		-	1150
EXT-9 (3-4)		-	1150
EXT-9 (4-5)		-	1150
* EXT-9 (6-6.5) *		-	1150
EXT-10 (0-1)		-	1450
EXT-10 (1.5-2.5)		-	1450
EXT-10 (3-4)		-	1450
EXT-10 (4-5)		-	1450
* EXT-10 (6-6.5) *		-	1450
EXT-11 (0-1)		-	1450

*Comments/Special Instructions:

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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
EXT-11(1.5-2.5)	SOIL	-	12/2 1425
EXT-11(3-4)		-	1425
EXT-12(0-1)		-	1400
EXT-12(1-2)		-	1400
EXT-12(2.5-3.5)		-	1400
EXT-12(3.5-4.5)		-	1400
*EXT-12(5.5-6)	*	-	1400
EXT-13(0-1)		-	1230
EXT-13(1-2)		-	1230
EXT-13(2-3)		-	1230
EXT-14(0-1)		-	1210
EXT-14(1.5-2.5)		-	1210
EXT-14(3-4)		-	1210
PTS-1(0-1)		-	950
PTS-2(0-1)		-	1005
PTS-3(0-1)		-	1030
PTS-4(0-1)		-	1410
PTS-5(0-1)		-	1420
PTS RMS			
SLN-1(0-1)		-	12/4 1115
SLN-1(1-2)		-	12/4 RMS 1610 1115
SLN-2(0-1)		-	12/4 RMS 1555 16
SLN-3(0-1)		-	12/4 1355

*Comments/Special Instructions:

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Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SLN-3(2-3-5)	SOIL	-	12/4 1355
SLN-3(5-6)	↓	-	12/4 1355
RHS SLN-3 → SLN-4(0-1)		-	12/3 1630
SLN-4(3-4)		-	12/3 1630
SLN-4(7-8)		-	12/3 1630
SLN-5(0-1)		-	12/4 1405
SLN-5(1-2)		-	12/4 1405
SLN-6(0-1)		-	12/3 840
SLN-7(0-1)		-	12/4 1415
SLN-7(1-2)		-	12/4 850-141 ^{RHS}
SLN-8(0-1)		-	12/3 850
SLN-9(0-1)		-	12/3 900
SLN-10(0-1)		-	12/3 910
SLN-11(0-1)		-	12/3 920
SLN-12(0-1)		-	12/4 1030
SLN-13(0-1)		-	920
SLN-14(0-1)		-	930
SLN-15(0-1)		-	955
SLN-16(0-1)		-	1010
SLN-17(0-1)		-	1015
SLN-18(04)		-	1035
SLN-19(0-1)	-	↓ 1040	
SLN-20(0-1)	-	12/5 1325	

*Comments/Special Instructions:

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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SLN-20(1-2)	SOIL	-	12/5 1325
SLN-21(0-1)		-	1340
SLN-21(1-2)		-	1340
SLN-22(0-1)		-	1305
SLN-22(1-2)		-	1305
SLN-23(0-1)		-	1345
GRF-1(0-1)		-	1040
GRF-1(1-2)		-	1040
GRF-2(0-1)		-	12/6 1105
GRF-3(0-1)		-	12/5 1020
GRF-3(1-2)		-	12/5 1020
GRF-4(0-1)		-	12/6 1110
GRF-5(0-1)		-	12/5 1010
GRF-5(1-2)		-	12/5 1010
GRF-6(0-1)		-	12/6 1115
GRF-7(0-1)		-	12/5 950
GRF-8(0-1)		-	12/6 1120
GRF-8(1-2)		-	12/6 1120
GRF-9(0-1)		-	12/5 1000
GRF-10(0-1)		-	12/6 1130
GRF-10(1-2)		-	12/6 1130
GRF-11(0-1)		-	12/6 1215
GRF-11(1-2)		-	12/6 1215

*Comments/Special Instructions:

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Asbestos Chain of Custody

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
GRF-11(3-4)	SOIL	-	12/6 1215
GRF-12(0-1)		-	12/4 1605
GRF-12(1-2)		-	12/4 1605
GRF-12(3-3.5)		-	12/4 1605
GRF-13(0-1)		-	12/5 1540
GRF-13(2-3)		-	12/5 1540
GRF-13(4-5)		-	12/5 1540
GRF-14(0-1)		-	12/5 1515
GRF-14(2-3)		-	12/5 1515
GRF-14(4-5)		-	12/5 1515
GRF-15(0-1)		-	12/4 1530
GRF-15(2-3)		-	12/4 1530
GRF-15(3.5-4.5)		-	12/4 1530
GRF-16(0-1)		-	12/4 1545
GRF-16(1-2)		-	12/4 1545
GRF-17(0-1)		-	12/5 1430
GRF-17(1-2)		-	12/5 1430
GRF-18(0-1)		-	12/5 1420
GRF-18(2-3)		-	12/5 1420
GRF-18(4-5)		-	12/5 1420
GRF-19(0-1)		-	12/6 1050
GRF-19(2-3)		-	12/6 1050
GRF-19(4.5-5.5)		-	12/6 1050

*Comments/Special Instructions:

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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
G7RF-20(0-1)	SOIL	-	12/6 850
G7RF-20(2-3)		-	850
G7RF-20(4-5)		-	850
G7RF-21(0-1)		-	1025
G7RF-21(2-3)		-	1025
G7RF-21(4-5)		-	1025
G7RF-22(0-1)		-	830
G7RF-22(2-3)		-	830
G7RF-22(3.5-4.5)		-	830
G7RF-23(0-1)		-	1000
G7RF-23(2-3)		-	1000
G7RF-23(4-5)		-	1000
G7RF-24(0-1)		-	915
G7RF-24(1.5-2.5)		-	915
G7RF-24(3-4)		-	915
G7RF-25(0-1)		-	940
G7RF-26(0-1)		-	12/5 925
G7RF-26(1.5-2.5)		-	12/5 925
G7RF-26(3-4)		-	12/5 925
G7RF-27(0-1)		-	12/6 935
G7RF-28(0-1)		-	12/5 830
G7RF-29(0-1)		-	12/6 930
G7RF-30(0-1)		-	12/5 840

*Comments/Special Instructions:

REFER TO PL 1

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935334

PHONE:

FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
GRF-31(0-1)	SOIL	-	12/5 850
GRF-32(0-1)		-	12/5 905
GRF-33(0-1)		-	12/5 1555
GRF-33(1-2)		-	12/5 1555
BTY-1(0-1)		-	12/5 1110
BTY-1(2.5-3.5)		-	12/5 1110
BTY-1(5-6)		-	12/5 1110
BTY-2(0-1)		-	12/6 1335
BTY-2(2-3)		-	12/6 1335
BTY-2(4.5-5.5)		-	12/6 1335
BTY-3(0-1)		-	12/6 1345
BTY-4(0-1)		-	12/6 1355
BTY-4(1-2)		-	12/6 1355
* BTY-4(3-3.5) *		-	12/6 1355
BTY-5(0-1)		-	12/6 1405
BTY-5(1-2)		-	12/6 1405
* BTY-5(3-3.5) *		-	12/6 1405
BTY-6(0-1)		-	12/5 1125
BTY-7(0-1)		-	12/5 1225
BTY-7(1-2)		-	12/5 1225
BTY-7(2-3)		-	12/5 1225
* BTY-7(4-4.5) *		-	12/5 1225
BTY-8(0-1)		-	12/5 1135

*Comments/Special Instructions:

REFER TO PG. 1

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Page 10 of 11 pages



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935334

PHONE:

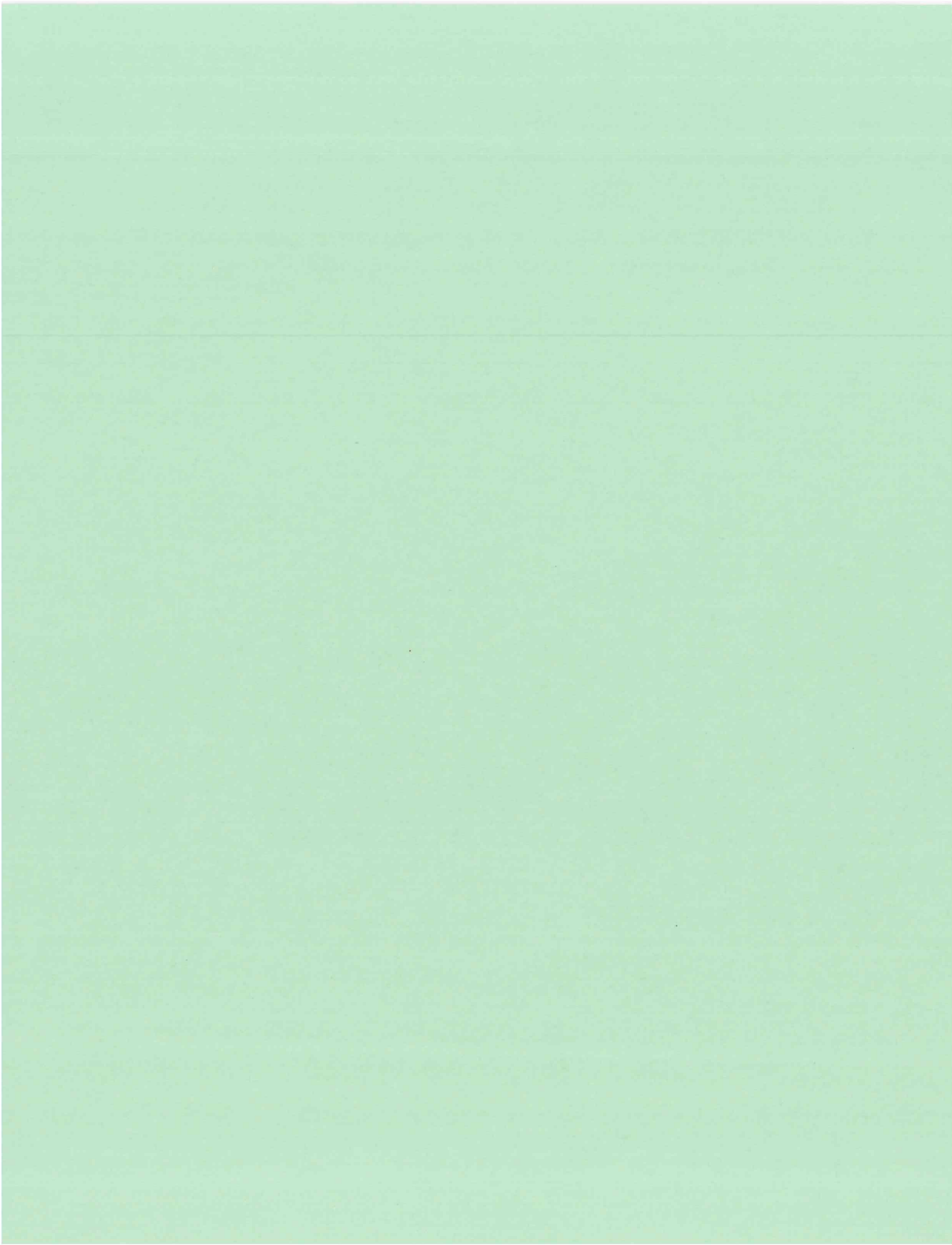
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
BTY-9(0-1)	SOIL	-	12/5 1200	
BTY-9(1-2)	↓	-	12/5 1200	
BTY-9(3-3.5)		-	12/5 1200	
EXT-15(0-1)		-	12/6 1430	
EXT-16(0-1)		-	12/6 1435	
BTY-10(0-1)		-	12/6 1320	
BTY-10(1-2)		-	12/6 1320	
BTY-10(2.5-3.5)		-	12/6 1320	
BTY-10(3.5-4.5)		-	12/6 1320	
BTY-10(5.5-6)		↓	-	12/6 1320

*Comments/Special Instructions:

REFER TO PG. 1





EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>

cinnaslab@EMSL.com

EMSL Order:	041935338
CustomerID:	TURN51
CustomerPO:	
ProjectID:	

Attn: **David Graham**
Hart & Hickman
2923 S. Tryon Street
Suite 100
Charlotte, NC 28203

Phone: (704) 586-0007
 Fax:
 Received: 12/11/19 11:15 AM
 Analysis Date: 3/5/2020
 Collected: 12/3/2019

Project: **ROW-605**

Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
PTS-1 (0-1) 041935338-0001	Soil	None Detected	
PTS-2 (0-1) 041935338-0002	Soil	None Detected	
PTS-3 (0-1) 041935338-0003	Soil	None Detected	
PTS-4 (0-1) 041935338-0004	Soil	None Detected	
PTS-5 (0-1) 041935338-0005	Soil	None Detected	
PTS-6 (0-1) 041935338-0006	Soil	None Detected	
PTS-7 (0-1) 041935338-0007	Soil	None Detected	
PTS-8 (0-1) 041935338-0008	Soil	None Detected	
PTS-9 (1-2) 041935338-0009	Soil	None Detected	
PTS-10 (0-1) 041935338-0010	Soil	None Detected	

Analyst(s)

Craig Nixon (118)

Mary McFarland (6)

Debbie Little (1)

Melissa Newkirk (27)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 02/05/2020 16:25:30

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Sample	Description	TEM Result	Notes
PTS-11 (0-1) 041935338-0011	Soil	None Detected	
PTS-12 (0-1) 041935338-0012	Soil	None Detected	
PTS-13 (0-1) 041935338-0013	Soil	None Detected	
PTS-14 (0-1) 041935338-0014	Soil	None Detected	
PTS-15 (0-1) 041935338-0015	Soil	None Detected	
PTS-16 (0-1) 041935338-0016	Soil	None Detected	
PTS-18 (0-1) 041935338-0018	Soil	None Detected	
PTS-18 (1-2) 041935338-0019	Soil	None Detected	
PTS-19 (1-2) 041935338-0021	Soil	None Detected	
PTS-21 (0-1) 041935338-0024	Soil	None Detected	

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Sample	Description	TEM Result	Notes
PTS-22 (1-2) 041935338-0027	Soil	Chrysotile	
PTS-23 (0-1) 041935338-0028	Soil	None Detected	
EXT-1 (0-1) 041935338-0029	Soil	Chrysotile	
EXT-1 (1-2) 041935338-0030	Soil	None Detected	
EXT-1 (2-3) 041935338-0031	Soil	None Detected	
EXT-1 (3-4) 041935338-0032	Soil	None Detected	
EXT-2 (0-1) 041935338-0034	Soil	Chrysotile	
EXT-2 (1-2) 041935338-0035	Soil	Chrysotile	<4 structures present
EXT-2 (4-4.5) 041935338-0037	Soil	Chrysotile	<4 asbestos fibers detected
EXT-3 (1.5-2.5) 041935338-0039	Soil	None Detected	

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Sample	Description	TEM Result	Notes
EXT-3 (3.5-4.5) 041935338-0040	Soil	None Detected	
EXT-3 (4.5-5.5) 041935338-0041	Soil	None Detected	
EXT-4 (4-5) 041935338-0045	Soil	None Detected	
EXT-5 (0-1) 041935338-0048	Soil	None Detected	
EXT-5 (3-4) 041935338-0049	Soil	None Detected	
EXT-5 (7-8) 041935338-0050	Soil	None Detected	
EXT-6 (0-1) 041935338-0051	Soil	Chrysotile	
EXT-6 (2.5-3.5) 041935338-0052	Soil	None Detected	
EXT-6 (5-6) 041935338-0053	Soil	None Detected	
EXT-6 (6-7) 041935338-0054	Soil	None Detected	

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Sample	Description	TEM Result	Notes
EXT-7 (1.5-2.5) 041935338-0057	Soil	None Detected	
EXT-7 (3-4) 041935338-0058	Soil	None Detected	
EXT-7 (4-5) 041935338-0059	Soil	None Detected	
EXT-8 (0-1) 041935338-0061	Soil	Chrysotile	
EXT-8 (3-4) 041935338-0062	Soil	None Detected	
EXT-8 (6-7) 041935338-0063	Soil	None Detected	
EXT-9 (0-1) 041935338-0064	Soil	None Detected	
EXT-9 (1.5-2.5) 041935338-0065	Soil	Chrysotile	
EXT-10 (0-1) 041935338-0069	Soil	Chrysotile	
EXT-10 (1.5-2.5) 041935338-0070	Soil	Chrysotile	

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Sample	Description	TEM Result	Notes
EXT-10 (3-4) 041935338-0071	Soil	Chrysotile	<4 asbestos fibers detected
EXT-10 (4-5) 041935338-0072	Soil	Chrysotile	<4 asbestos fibers detected
EXT-10 (6-6.5) 041935338-0073	Soil	None Detected	
EXT-12 (5.5-6) 041935338-0081	Soil	Chrysotile	<4 asbestos fibers detected
SLN-2 (0-1) 041935338-0090	Soil	None Detected	
SLN-3 (0-1) 041935338-0091	Soil	None Detected	
SLN-3 (2.5-3.5) 041935338-0092	Soil	None Detected	
SLN-3 (5-6) 041935338-0093	Soil	None Detected	
SLN-4 (0-1) 041935338-0094	Soil	None Detected	
SLN-4 (3-4) 041935338-0095	Soil	None Detected	

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Sample	Description	TEM Result	Notes
SLN-4 (7-8) 041935338-0096	Soil	None Detected	
SLN-6 (0-1) 041935338-0099	Soil	None Detected	
SLN-7 (0-1) 041935338-0100	Soil	None Detected	
SLN-7 (1-2) 041935338-0101	Soil	None Detected	
SLN-8 (0-01) 041935338-0102	Soil	None Detected	
SLN-11 (0-01) 041935338-0105	Soil	None Detected	
SLN-12 (0-01) 041935338-0106	Soil	None Detected	
SLN-18 (0-01) 041935338-0112	Soil	None Detected	
SLN-19 (0-01) 041935338-0113	Soil	None Detected	
SLN-20 (1-2) 041935338-0115	Soil	None Detected	

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Sample	Description	TEM Result	Notes
SLN-21 (0-1) 041935338-0116	Soil	None Detected	
SLN-22 (0-1) 041935338-0118	Soil	None Detected	
SLN-22 (1-2) 041935338-0119	Soil	None Detected	
SLN-23 (0-1) 041935338-0120	Soil	None Detected	
GRF-1 (1-2) 041935338-0122	Soil	None Detected	
GRF-3 (0-1) 041935338-0124	Soil	Chrysotile	
GRF-3 (1-2) 041935338-0125	Soil	None Detected	
GRF-4 (0-1) 041935338-0126	Soil	None Detected	
GRF-5 (0-1) 041935338-0127	Soil	None Detected	
GRF-5 (1-2) 041935338-0128	Soil	None Detected	

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Sample	Description	TEM Result	Notes
GRF-6 (0-1) 041935338-0129	Soil	None Detected	
GRF-7 (0-1) 041935338-0130	Soil	None Detected	
GRF-8 (0-1) 041935338-0131	Soil	None Detected	
GRF-8 (1-2) 041935338-0132	Soil	None Detected	
GRF-9 (0-1) 041935338-0133	Soil	None Detected	
GRF-10 (0-1) 041935338-0134	Soil	None Detected	
GRF-10 (1-2) 041935338-0135	Soil	None Detected	
GRF-11 (0-1) 041935338-0136	Soil	None Detected	
GRF-11 (1.5-2.5) 041935338-0137	Soil	None Detected	
GRF-11 (3-4) 041935338-0138	Soil	None Detected	

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Sample	Description	TEM Result	Notes
GRF-12 (0-1) 041935338-0139	Soil	None Detected	
GRF-12 (1-2) 041935338-0140	Soil	None Detected	
GRF-13 (0-1) 041935338-0142	Soil	None Detected	
GRF-13 (2-3) 041935338-0143	Soil	None Detected	
GRF-13 (4-5) 041935338-0144	Soil	None Detected	
GRF-14 (0-1) 041935338-0145	Soil	None Detected	
GRF-14 (2-3) 041935338-0146	Soil	None Detected	
GRF-14 (4-5) 041935338-0147	Soil	None Detected	
GRF-15 (0-1) 041935338-0148	Soil	None Detected	
GRF-15 (2-3) 041935338-0149	Soil	None Detected	

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GRF-15 (3.5-4.5) 041935338-0150	Soil	None Detected	
GRF-16 (0-1) 041935338-0151	Soil	None Detected	
GRF-16 (1-2) 041935338-0152	Soil	None Detected	
GRF-17 (0-1) 041935338-0153	Soil	None Detected	
GRF-17 (1-2) 041935338-0154	Soil	None Detected	
GRF-18 (0-1) 041935338-0155	Soil	None Detected	
GRF-18 (2-3) 041935338-0156	Soil	None Detected	
GRF-18 (4-5) 041935338-0157	Soil	None Detected	
GRF-19 (0-1) 041935338-0158	Soil	None Detected	
GRF-19 (2-3) 041935338-0159	Soil	None Detected	

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CustomerID: TURN51
CustomerPO:
ProjectID:

Attn: **David Graham**
Hart & Hickman
2923 S. Tryon Street
Suite 100
Charlotte, NC 28203

Phone: (704) 586-0007
Fax:
Received: 12/11/19 11:15 AM
Analysis Date: 3/5/2020
Collected: 12/3/2019

Project: **ROW-605**

Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
GRF-19 (4.5-5.5) 041935338-0160	Soil	None Detected	
GRF-20 (0-1) 041935338-0161	Soil	None Detected	
GRF-20 (2-3) 041935338-0162	Soil	None Detected	
GRF-20 (4-5) 041935338-0163	Soil	None Detected	
GRF-21 (0-1) 041935338-0164	Soil	None Detected	
GRF-21 (2-3) 041935338-0165	Soil	None Detected	
GRF-21 (4-5) 041935338-0166	Soil	None Detected	
GRF-22 (0-1) 041935338-0167	Soil	None Detected	
GRF-22 (2-3) 041935338-0168	Soil	None Detected	
GRF-22 (3.5-4.5) 041935338-0169	Soil	None Detected	

Analyst(s)

Craig Nixon (118) Mary McFarland (6)
Debbie Little (1) Melissa Newkirk (27)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

Soil is a problem matrix due to its inherent heterogeneity. EMSL recommends more specialized methodologies such as the EPA 600/R-93/116 with milling preparation. Interpretation and use of test results are the responsibility of the client. This is a qualitative screen only. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 02/05/2020 16:25:30



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>

cinnaslab@EMSL.com

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Project: **ROW-605**

Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
GRF-23 (0-1) 041935338-0170	Soil	None Detected	
GRF-23 (2-3) 041935338-0171	Soil	None Detected	
GRF-23 (4-5) 041935338-0172	Soil	None Detected	
GRF-25 (0-1) 041935338-0176	Soil	None Detected	
GRF-26 (0-1) 041935338-0177	Soil	None Detected	
GRF-26 (1.5-2.5) 041935338-0178	Soil	None Detected	
GRF-26 (3-4) 041935338-0179	Soil	None Detected	
GRF-27 (0-1) 041935338-0180	Soil	None Detected	
GRF-33 (0-1) 041935338-0186	Soil	None Detected	
GRF-33 (1-2) 041935338-0187	Soil	None Detected	

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Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
BTY-1 (0-1) 041935338-0188	Soil	None Detected	
BTY-1 (2.5-3.5) 041935338-0189	Soil	None Detected	
BTY-2 (0-1) 041935338-0191	Soil	None Detected	
BTY-2 (2-3) 041935338-0192	Soil	None Detected	
BTY-2 (4.5-5.5) 041935338-0193	Soil	None Detected	
BTY-3 (0-1) 041935338-0194	Soil	None Detected	
BTY-4 (0-1) 041935338-0195	Soil	None Detected	
BTY-4 (1-2) 041935338-0196	Soil	None Detected	
BTY-5 (0-1) 041935338-0198	Soil	None Detected	
BTY-5 (1-2) 041935338-0199	Soil	None Detected	

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Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
BTY-6 (0-1) 041935338-0201	Soil	None Detected	
BTY-7 (0-1) 041935338-0202	Soil	None Detected	
BTY-7 (1-2) 041935338-0203	Soil	None Detected	
BTY-7 (2-3) 041935338-0204	Soil	None Detected	
BTY-8 (0-1) 041935338-0206	Soil	None Detected	
BTY-9 (0-1) 041935338-0207	Soil	None Detected	
BTY-9 (1-2) 041935338-0208	Soil	None Detected	
EXT-15 (0-1) 041935338-0210	Soil	None Detected	
BTY-10 (0-1) 041935338-0212	Soil	None Detected	
BTY-10 (1-2) 041935338-0213	Soil	None Detected	

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Received: 12/11/19 11:15 AM
Analysis Date: 3/5/2020
Collected: 12/3/2019

Project: **ROW-605**

Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
BTY-10 (2.5-3.5) 041935338-0214	Soil	None Detected	
BTY-10 (3.5-4.5) 041935338-0215	Soil	None Detected	

Analyst(s) _____

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Initial report from 02/05/2020 16:25:30



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

PHONE:
FAX:

Company Name: HART & HICKMAN, P.C.		EMSL Customer ID:	
Street: 2923 S. TRYON STREET STE. 100		City: CHARLOTTE	State/Province: NC
Zip/Postal Code: 28203	Country: U.S.	Telephone #: (704)586-0007	Fax #:
Report To (Name): DAVID GRAHAM		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: DGRAHAM@HARTHICKMAN.COM		Purchase Order:	
Project Name/Number: ROW-605		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: NORTH CAROLINA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples are from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p>___ 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NYS 198.8 SOF-V</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM- Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%)</p> <p><input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%)</p> <p><input checked="" type="checkbox"/> TEM Qualitative via Filtration Prep ***</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep</p> <p><input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)</p> <p>Other:</p> <p><input type="checkbox"/></p>
---	--	--

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: **ROBERT SORGEL** Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
PTS-1(0-1)	Soil	—	12/3 950
PTS-2(0-1)	↓	—	1005
PTS-3(0-1)	↓	—	1030
PTS-4(0-1)	↓	—	1410
PTS-5(0-1)	↓	—	1420

Client Sample # (s):	-	Total # of Samples:
Relinquished (Client):	Date: 12/9/2019	Time:
Received (Lab): Chalera FXGD	Date: box 4 of 4 12/11/19	Time: 1115

Comments/Special Instructions:
FOLLOWING ANALYSIS BY EPA METHOD 800/R-93/116 USING PLM WITH MILLING PREP (400 PT COUNT), HOLD ALL SAMPLES. PENDING RESULTS, SAMPLES MAY BE ANALYZED BY TEM QUALITATIVE VIA FILTRATION PREP.
*** HOLD SAMPLES MARKED w/ "*" PENDING CONFIRMATION TO PROCEED ***

***** HOLD TEM ANALYSIS PENDING CONFIRMATION *****

12/11/19 only box 4 of 4 rec'd



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA: # (Bulk)	Date/Time Sampled	
PTS-6 (0-1)	SOIL	—	12/3 1320	
PTS-7 (0-1)	↓	—	1430	
PTS-8 (0-1)		—	1440	
PTS-9 (1-2)		—	1445	
PTS-10 (0-1)		—	1505	
PTS-11 (0-1)		—	1515	
PTS-12 (0-1)		—	1055	
PTS-13 (0-1)		—	1110	
PTS-14 (0-1)		—	1530	
PTS-15 (0-1)		—	1120	
PTS-16 (0-1)		—	1130	
PTS-17 (0-1)		—	1155	
PTS-18 (0-1)		—	1235	
PTS-18 (1-2)		—	1235	
PTS-19 (0-1)		—	1215	
PTS-19 (1-2)		—	1215	
PTS-20 (0-1)		—	1245	
PTS-20 (1-2)		—	1245	
PTS-21 (0-1)		—	1225	
PTS-21 (1-2)		—	1225	
PTS-22 (0-1)		—	1300	
PTS-22 (1-2)		—	1300	
PTS-23 (0-1)		↓	—	↓ 1015

*Comments/Special Instructions:

REFER TO PG. 1

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
EXT-1 (0-1)	SOIL	—	12/2 1645
EXT-1 (1-2)		—	1645
EXT-1 (2-3)		—	1645
EXT-1 (3-4)		—	1645
EXT-1 (5-5.5)		—	1645
EXT-2 (0-1)		—	1125
EXT-2 (1-2)		—	1125
EXT-2 (2-3)		—	1125
EXT-2 (4-4.5)		—	1125
EXT-3 (0-1)		—	1620
EXT-3 (1.5-2.5)		—	1620
EXT-3 (3.5-4.5)		—	1620
EXT-3 (4.5-5.5)		—	1620
EXT-3 (6.5-7)		—	1620
EXT-4 (0-1)		—	1100
EXT-4 (2-3)		—	1100
EXT-4 (4-5)		—	1100
EXT-4 (5-6)		—	1100
EXT-4 (7-7.5)		—	1100
EXT-5 (0-1)		—	1550
EXT-5 (3-4)		—	1550
EXT-5 (7-8)		—	1550
EXT-6 (0-1)		—	1020

*Comments/Special Instructions:
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LABORATORY • PRODUCTS • TRAINING

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
EXT-6 (2.5-3.5)	SOIL	-	12/2 1020
EXT-6 (5-6)		-	1020
EXT-6 (6-7)		-	1020
* EXT-6 (8-8.5) *		-	1020
EXT-7 (0-1)		-	1040
EXT-7 (1.5-2.5)		-	1040
EXT-7 (3-4)		-	1040
EXT-7 (4-5)		-	1040
* EXT-7 (6-6.5) *		-	1040
EXT-8 (0-1)		-	1525
EXT-8 (3-4)		-	1525
EXT-8 (6-7)		-	1525
EXT-9 (0-1)		-	1150
EXT-9 (1.5-2.5)		-	1150
EXT-9 (3-4)		-	1150
EXT-9 (4-5)		-	1150
* EXT-9 (6-6.5) *		-	1150
EXT-10 (0-1)		-	1450
EXT-10 (1.5-2.5)		-	1450
EXT-10 (3-4)		-	1450
EXT-10 (4-5)		-	1450
* EXT-10 (6-6.5) *		-	1450
EXT-11 (0-1)		-	1450

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
EXT-11(1.5-2.5)	SOIL	—	12/2 1425	
EXT-11(3-4)	↓	—	1425	
EXT-12(0-1)		—	1400	
EXT-12(1-2)		—	1400	
EXT-12(2.5-3.5)		—	1400	
EXT-12(3.5-4.5)		—	1400	
* EXT-12(5.5-6) *		—	1400	
EXT-13(0-1)		—	1230	
EXT-13(1-2)		—	1230	
EXT-13(2-3)		—	1230	
EXT-14(0-1)		—	1210	
EXT-14(1.5-2.5)		—	1210	
EXT-14(3-4)		—	1210	
PTS-1(0-1)			—	950
PTS-2(0-1)			—	1005
PTS-3(0-1)		—	1030	
PTS-4(0-1)		—	1410	
PTS-5(0-1)		—	1420	
PTS RMS				
SLN-1(0-1)		—	12/4 1115	
SLN-1(1-2)		—	12/4 RMS 1610 1115	
SLN-2(0-1)		—	12/4 RMS 1555 16	
SLN-3(0-1)		—	12/4 1355	

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SLN-3(2-3-5)	SOIL	-	12/4 1355
SLN-3(5-6)	↓	-	12/4 1355
RHS SLN-3 → SLN-4(0-1)		-	12/3 1630
SLN-4(3-4)		-	12/3 1630
SLN-4(7-8)		-	12/3 1630
SLN-5(0-1)		-	12/4 1405
SLN-5(1-2)		-	12/4 1405
SLN-6(0-1)		-	12/3 840
SLN-7(0-1)		-	12/4 1415
SLN-7(1-2)		-	12/4 850 ^{RHS} 141
SLN-8(0-1)		-	12/3 850
SLN-9(0-1)		-	12/3 900
SLN-10(0-1)		-	12/3 910
SLN-11(0-1)		-	12/3 920
SLN-12(0-1)		-	12/4 1030
SLN-13(0-1)		-	920
SLN-14(0-1)		-	930
SLN-15(0-1)		-	955
SLN-16(0-1)		-	1010
SLN-17(0-1)		-	1015
SLN-18(04)		-	1035
SLN-19(0-1)	-	1040	
SLN-20(0-1)	-	12/5 1325	

*Comments/Special Instructions:

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LABORATORY PRODUCTS TRAINING

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SLN-20(1-2)	SOIL	-	12/5 1325
SLN-21(0-1)		-	1340
SLN-21(1-2)		-	1340
SLN-22(0-1)		-	1305
SLN-22(1-2)		-	1305
SLN-23(0-1)		-	1345
GRF-1(0-1)		-	1040
GRF-1(1-2)		-	1040
GRF-2(0-1)		-	12/6 1105
GRF-3(0-1)		-	12/5 1020
GRF-3(1-2)		-	12/5 1020
GRF-4(0-1)		-	12/6 1110
GRF-5(0-1)		-	12/5 1010
GRF-5(1-2)		-	12/5 1010
GRF-6(0-1)		-	12/6 1115
GRF-7(0-1)		-	12/5 950
GRF-8(0-1)		-	12/6 1120
GRF-8(1-2)		-	12/6 1120
GRF-9(0-1)		-	12/5 1000
GRF-10(0-1)		-	12/6 1130
GRF-10(1-2)		-	12/6 1130
GRF-11(0-1)		-	12/6 1215
GRF-11(1-2)		-	12/6 1215

*Comments/Special Instructions:

REFER TO PG. 1

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRADING

Asbestos Chain of Custody

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041935338

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Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
GRF-11(3-4)	SOIL	-	12/6 1215
GRF-12(0-1)		-	12/4 1605
GRF-12(1-2)		-	12/4 1605
GRF-12(3-3.5)		-	12/4 1605
GRF-13(0-1)		-	12/5 1540
GRF-13(2-3)		-	12/5 1540
GRF-13(4-5)		-	12/5 1540
GRF-14(0-1)		-	12/5 1515
GRF-14(2-3)		-	12/5 1515
GRF-14(4-5)		-	12/5 1515
GRF-15(0-1)		-	12/4 1530
GRF-15(2-3)		-	12/4 1530
GRF-15(3.5-4.5)		-	12/4 1530
GRF-16(0-1)		-	12/4 1545
GRF-16(1-2)		-	12/4 1545
GRF-17(0-1)		-	12/5 1430
GRF-17(1-2)		-	12/5 1430
GRF-18(0-1)		-	12/5 1420
GRF-18(2-3)		-	12/5 1420
GRF-18(4-5)		-	12/5 1420
GRF-19(0-1)		-	12/6 1050
GRF-19(2-3)		-	12/6 1050
GRF-19(4.5-5.5)		-	12/6 1050

*Comments/Special Instructions:

REFER TO PG. 1

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Page 8 of 11 pages



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935338

PHONE:

FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
GRF-20(0-1)	SOIL ↓	-	12/6 850
GRF-20(2-3)		-	850
GRF-20(4-5)		-	850
GRF-21(0-1)		-	1025
GRF-21(2-3)		-	1025
GRF-21(4-5)		-	1025
GRF-22(0-1)		-	830
GRF-22(2-3)		-	830
GRF-22(3.5-4.5)		-	830
GRF-23(0-1)		-	1000
GRF-23(2-3)		-	1000
GRF-23(4-5)		-	1000
GRF-24(0-1)		-	915
GRF-24(1.5-2.5)		-	915
GRF-24(3-4)		-	915
GRF-25(0-1)		-	940
GRF-26(0-1)		-	12/5 925
GRF-26(1.5-2.5)		-	12/5 925
GRF-26(3-4)		-	12/5 925
GRF-27(0-1)		-	12/6 935
GRF-28(0-1)		-	12/5 830
GRF-29(0-1)		-	12/6 930
GRF-30(0-1)		-	12/5 840

*Comments/Special Instructions:

REFER TO PL 1

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

041935334

PHONE:

FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

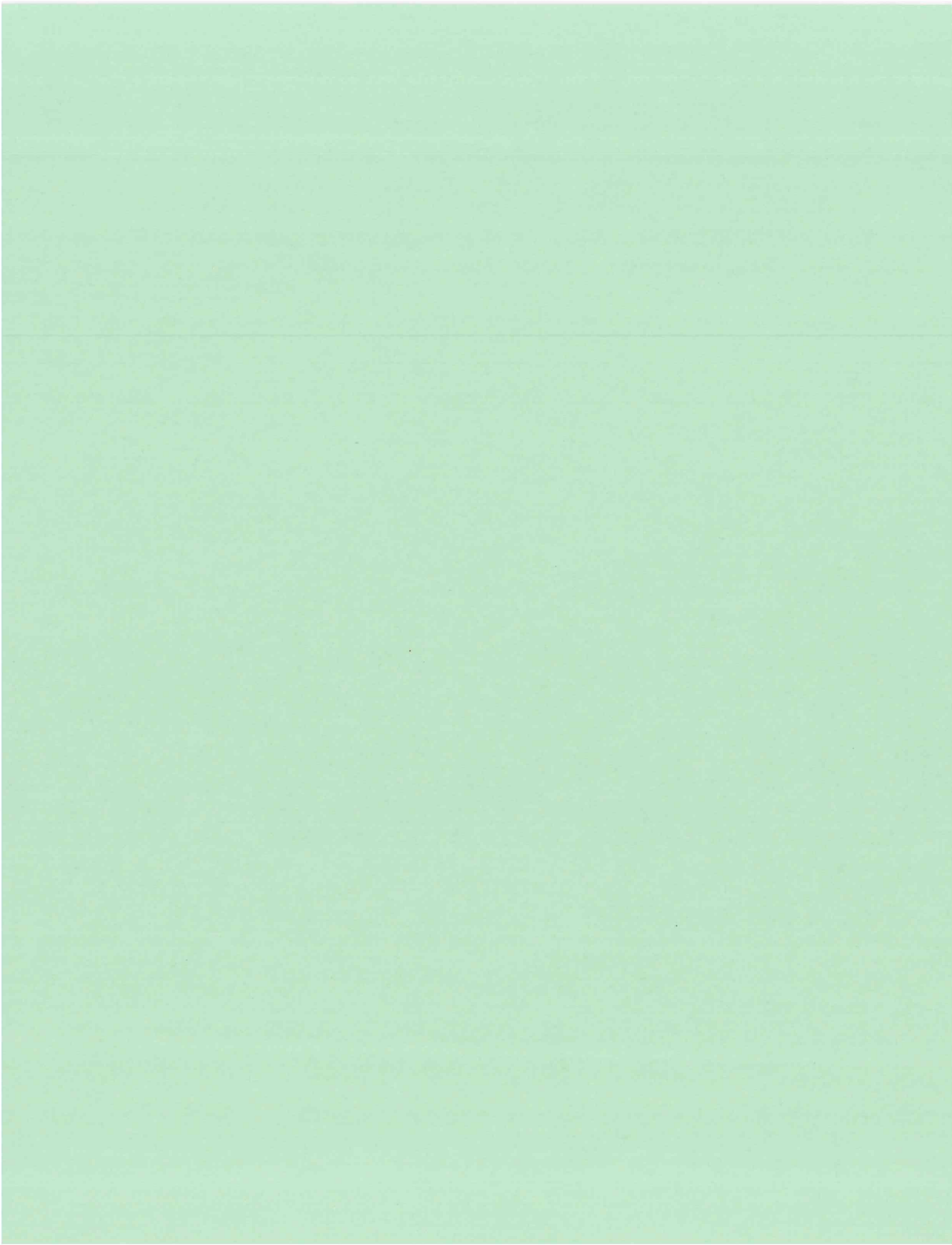
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
GRF-31(0-1)	SOIL	-	12/5 850
GRF-32(0-1)		-	12/5 905
GRF-33(0-1)		-	12/5 1555
GRF-33(1-2)		-	12/5 1555
BTY-1(0-1)		-	12/5 1110
BTY-1(2.5-3.5)		-	12/5 1110
BTY-1(5-6)		-	12/5 1110
BTY-2(0-1)		-	12/6 1335
BTY-2(2-3)		-	12/6 1335
BTY-2(4.5-5.5)		-	12/6 1335
BTY-3(0-1)		-	12/6 1345
BTY-4(0-1)		-	12/6 1355
BTY-4(1-2)		-	12/6 1355
BTY-4(3-3.5)		-	12/6 1355
BTY-5(0-1)		-	12/6 1405
BTY-5(1-2)		-	12/6 1405
BTY-5(3-3.5)		-	12/6 1405
BTY-6(0-1)		-	12/5 1125
BTY-7(0-1)		-	12/5 1225
BTY-7(1-2)		-	12/5 1225
BTY-7(2-3)		-	12/5 1225
BTY-7(4-4.5)		-	12/5 1225
BTY-8(0-1)		-	12/5 1135

*Comments/Special Instructions:

REFER TO PG. 1

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Page 10 of 11 pages





EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 411911937

Customer ID: TURN51

Customer PO:

Project ID:

Attention: Robert Sorgel
Hart & Hickman
2923 S. Tryon Street
Charlotte, NC 28203

Phone: (704) 586-0007

Fax:

Received Date: 12/09/2019 5:00 PM

Analysis Date: 12/10/2019

Collected Date: 12/02/2019

Project: ROW-605/ Davidson, NC

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
001	EXT- 13 and EXT - 14 Soil Borings (0-4' -	Brown/White Fibrous		15% Ca Carbonate 80% Non-fibrous (Other)	5% Chrysotile
411911937-0001	Floor Tile	Homogeneous			

Analyst(s)

Sarah Breneman (1)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 12/10/2019 15:17:57

Appendix F

Certificates of Disposal and Non-Hazardous Waste Manifest



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1 drum of non-hazardous plastic received on 12/11/2019 from:

Generator: North Carolina Department of Transportation

Originating at: Intersection of Sloan Street and Eden Street
Davidson, NC

EC Waste ID #: 121920

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-8244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1 drum of non-hazardous contaminated material received on 12/11/2019 from:

Generator: North Carolina Department of Transportation

Originating at: Intersection of Sloan Street and Eden Street
Davidson, NC

EC Waste ID #: 121920

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1 drum of non-hazardous contaminated water received on 12/11/2019 from:

Generator: North Carolina Department of Transportation

Originating at: Intersection of Sloan Street and Eden Street
Davidson, NC

EC Waste ID #: 121920

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 121920-A	2. Page 1 of 1
3. Generator's Name and Mailing Address NC DOT 1020 Birch Ridge Dr. Raleigh, NC		Site Address: near now Intersection of Slough St & Eden St Davidson NC			
4. Generator's Phone (919) 707-6859 27610		6. US EPA ID Number		A. State Transporter's ID	
5. Transporter 1 Company Name Evo Corporation		7. Transporter 2 Company Name Evo Corporation		B. Transporter 1 Phone 336-725-5244	
9. Designated Facility Name and Site Address Ecoflu, Inc 2750 Patterson St. Plymouth NC 27407		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone 336-725-5244	
				E. State Facility's ID	
				F. Facility's Phone 336-885-7925	
11. WASTE DESCRIPTION Non Hazardous Non-Regulated Material		12. Containers		13. Total Quantity	14. Unit WL/Vol.
		No.	Type		
a. Water with Asbestos		1	DM	500	P
b. Soil with Asbestos		1	DM	700	P
c. Plastic Debris with Asbestos		1	DM	150	P
d.					
G. Additional Descriptions for Materials Listed Above Wastes generated during soil sampling for environmental assessment.				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information <div style="text-align: right; font-size: 2em;">207667 121920</div>					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name		Signature		Date	
				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Harold A. Allen		Signature		Date 12/1/19	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name W. H. Allen		Signature		Date 01/01/20	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name Gregg Perry		Signature		Date 1/9/20	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

Via Email

May 13, 2022

NC DOT Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

Attention: Mr. Gordon Box, LG

Re: NC DOT Inspector Training Guidance
Davidson Asbestos Site
NC DOT State Project No. U-5907
WBS Element #46452.1.1
Davidson, Mecklenburg County, North Carolina
H&H Job No. ROW-605

Dear Gordon:

1.0 Introduction

Hart & Hickman, PC (H&H) has prepared this letter to provide training guidance for NC DOT inspectors related to asbestos-contaminated soil (ACS) prior to a proposed sidewalk and roadway improvement project in Davidson, Mecklenburg County, North Carolina. The sidewalk and roadway improvement activities will be conducted on multiple parcels located along Potts Street, Sloan Street, Griffith Street, and Beaty Street in Davidson, NC.

The NC DOT project includes proposed roadway and sidewalk improvements, installation of stormwater drainage ditches and stormwater drainage piping and catch basins. The roadway improvements include construction of a new road that extends Potts Street to Sloan Street, which connects with a new roundabout at the intersection of Sloan Street, Griffith Street, and Beaty Street. A project location map is included as Figure 1, and an aerial project map is presented as Figure 2.

Mr. Gordon Box, LG

May 13, 2022

Page 2

Previous assessments conducted by others verified the presence of ACS on the former asbestos mill property and in the residential neighborhood surrounding the former mill. Analytical results of soil samples collected by H&H during 2019 Phase II assessment activities indicate widespread ACS exists within proposed NC DOT project work areas. Laboratory analytical results from the Phase II activities indicate that asbestos was present in soil for 40 out of 105 soil borings conducted during this assessment. Buried asbestos containing material (ACM) was only detected in one location. For proposed NC DOT work areas, the buried ACM (asbestos-containing floor tile) was only detected near the new road extension at Sloan Street.

Appropriate safety precautions and procedures should be implemented for the sidewalk, road construction, and drainage/piping work within ACS or ACM areas. ACS that is disturbed or removed during construction activities should be properly managed by accredited personnel and disposed at a permitted facility. H&H has developed a Soil Management Plan (SMP) to assist NC DOT's construction contractor during the road and sidewalk construction activities. During construction activities, NC DOT's construction contractor will establish Regulated Areas where ACS or ACM disturbance may occur. H&H is providing this training guidance for NC DOT inspectors who will enter Regulated Areas or for NC DOT staff who visit the project area (outside of Regulated Areas) during the sidewalk and roadway improvement activities.

2.0 Training Requirements

Two NC state government agencies responsible for regulations regarding exposure to asbestos include the NC Department of Health and Human Services (DHHS) Health Hazards Control Unit (HHCU) and the North Carolina Department of Labor. The DHHS HHCU accredits individuals performing asbestos management activities such as inspection, design, and removal; approves asbestos training courses; issues permits for asbestos removal projects; issues demolition notifications; inspects asbestos removal projects; implements the management of ACMs in schools; and investigates citizen complaints. The NC Department of Labor has adopted the federal Occupational Safety and Health Administration (OSHA) *General Industry Standard*

Mr. Gordon Box, LG

May 13, 2022

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(29 CFR 1910.1001) and the *Construction Standard* (29 CFR 1926.1101) regulations and is responsible for their enforcement of worker protection in NC.

Considering both NC HHCU and OSHA regulations, personnel who enter Regulated Areas where ACS (with any amount of asbestos detected in soil), known ACM, or suspected ACM will be disturbed must be trained and maintain accreditation by the HHCU. Based on discussions on January 7, 2022, between H&H and Mr. Jeffery Dellinger, Industrial Hygiene Consultant Supervisor with HHCU, ACS containing greater than or equal to 0.25% asbestos is considered a hazard and shall be managed by accredited personnel. In addition, because the OSHA *General Industry Standard* (29 CFR 1910.1001) and *Construction Standard* (29 CFR 1926.1101) indicate that no employee shall be exposed to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter of air as an 8-hour time-weighted average (TWA), personnel accredited as Asbestos Supervisors and Asbestos Workers will also be required for management of ACS that is less than 0.25 % asbestos. As such, NC DOT inspectors who enter Regulated Areas where ACS or ACM is disturbed must be trained and accredited by the HHCU.

Asbestos training courses are offered in multiple disciplines: Abatement Worker, Abatement Supervisor, Inspector, Management Planner, Project Designer, etc. At a minimum, the NC DOT inspector must obtain the Asbestos Worker accreditation. Asbestos training providers and the Asbestos Accreditation Application can be found on the HHCU website (<https://epi.dph.ncdhhs.gov/asbestos/ahmp.html>). The Asbestos Worker accreditation training is typically covered in a 32-hour in-person training course. An HHCU-accredited Supervisor should also be present on-site during construction/excavation activities. The asbestos supervisor accreditation training is typically covered in a 40-hour training course.

During soil disturbing activities, all persons within the Regulated Areas shall utilize appropriate personal protection equipment (PPE), as identified in OSHA's general requirements for asbestos workers (29 CFR 1910.1001 and 29 CFR 1926.1101). PPE shall include appropriate respiratory protection with a minimum half-face respirator with high efficiency particulate air (HEPA) filtration required anytime active soil disturbance is occurring, protective full body

Mr. Gordon Box, LG

May 13, 2022

Page 4

Tyvek® suit with attached hood and booties, impermeable gloves, rubber boots, and other protective wear as appropriate based on conditions (cold stress, heat stress, insects, etc.). Respirators shall be properly fitted prior to use. Personnel shall wear proper PPE at all times within the Regulated Area. When exiting the Regulated Area workers shall proceed directly to the decontamination area and conduct decontamination procedures prior to leaving the site.

NC DOT staff who are visiting the project area (but will not enter Regulated Areas) must obtain initial training in the proper handling of materials and wastes that contain asbestos in accordance with the Two-Hour Asbestos Awareness Training required by 40 CFR 763 and 29 CFR 1926.1101. Two-Hour Asbestos Awareness training providers and courses are offered online.

3.0 Summary

Previous assessment activities conducted along Potts Street, Sloan Street, Griffith Street, and Beaty Street indicate that widespread ACS and ACM in one location are located within proposed NC DOT work areas near the Davidson Asbestos site. ACS and ACM will be disturbed during proposed sidewalk and road improvement activities near the Davidson Asbestos site. Asbestos management activities are regulated by the NC DHHS HHCU and OSHA. NC DOT construction inspectors and personnel shall obtain appropriate training and/or accreditation prior to entering Regulated Areas or visiting the project area during the sidewalk and roadway improvement activities.

Mr. Gordon Box, LG

May 13, 2022

Page 5

Should you have any questions or need additional information, please do not hesitate to call us at (704) 586-0007.

Very truly yours,

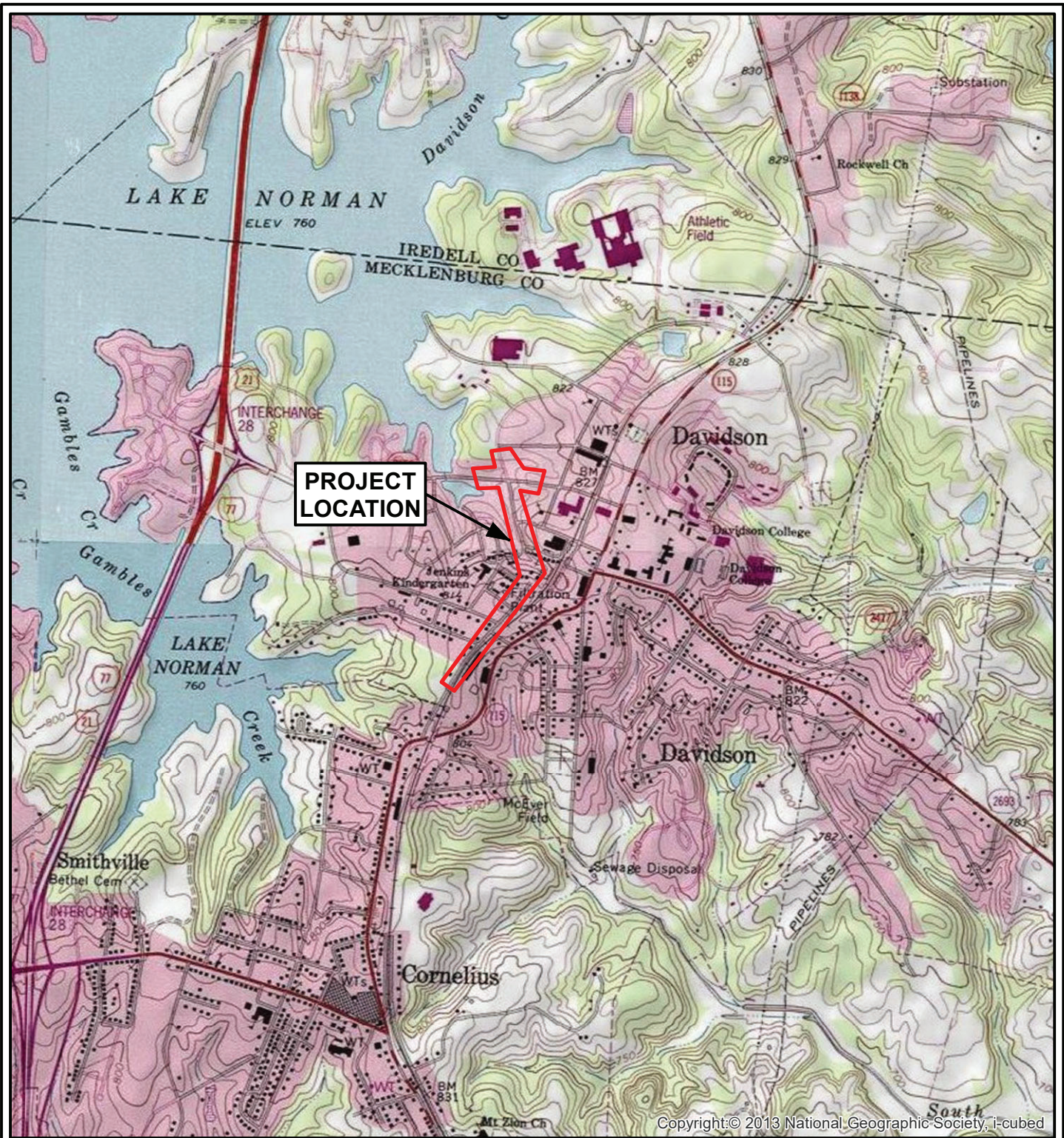
Hart & Hickman, PC

David Graham, PG
Senior Project Geologist

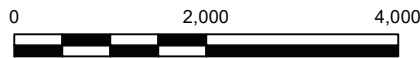
Robert Sorgel
Senior Project Geologist
NC-Accredited Asbestos Inspector

Matt Bramblett, PE
Principal

Attachments



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SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

CORNELIUS AND MOOREVILLE, NORTH CAROLINA 2013

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE		PROJECT LOCATION MAP	
PROJECT		DAVIDSON ASBESTOS SITE DAVIDSON, NORTH CAROLINA	
		2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 5-13-22		REVISION NO: 0	
JOB NO: ROW-605		FIGURE. 1	




LEGEND

- SOIL BORING LOCATION WITHOUT ASBESTOS DETECTION
- SOIL BORING LOCATION WITH ASBESTOS DETECTION

NOTE:

1. BASE DATA OBTAINED FROM NC ONEMAP GIS, 2019.



TITLE		AERIAL PROJECT MAP AND SOIL BORING LOCATIONS	
PROJECT		DAVIDSON ASBESTOS SITE DAVIDSON, NORTH CAROLINA	
		2923 South Tryon Street - Suite 100 Charlotte, North Carolina 28203 704-586-0007 (p) 704-586-0373 (f) License # C-1269 / # C-245 Geology	
DATE: 5-13-22	REVISION NO: 0		
JOB NO: ROW-605	FIGURE NO: 2		



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

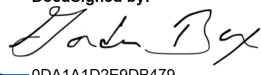
ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

October 16, 2018

MEMORANDUM TO: Sean Epperson, PE, NCDOT Division 10
Division Project Team Lead

FROM: Gordon Box, PG
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

DocuSigned by:

0DA1A1D2E9DB479...

TIP NO: U-5907
WBS: 46452.1.1
COUNTY: MECKLENBURG
DIVISION: 10
DESCRIPTION: POTTS-SLOAN-BEATTY CONNECTOR IN DAVIDSON.
CONSTRUCT ROADWAY ON NEW LOCATION.

SUBJECT: **GeoEnvironmental Planning Report**

The GeoEnvironmental Section of the Geotechnical Engineering Unit performed a Phase I field investigation on August 27, 2018 for the above referenced project to identify geoenvironmental sites of concern. The purpose of this report is to document sites of concern within the project study area that are or may be contaminated. These sites of concern should be included in the environmental planning document in an effort to assist the project stakeholders in reducing or avoiding impacts to these sites. Sites of concern may include, but are not limited to, underground storage tank (UST) sites, dry cleaning facilities, hazardous waste sites, regulated landfills, unregulated dumpsites, and former industrial sites such as manufactures utilizing and producing asbestos containing material (ACM).

Findings

Two sites of concern were identified in the project study area. One site of concern had an underground storage tank (UST) Incident, and a second site of concern is a former industrial site that manufactured asbestos containing material (ACM). We anticipate low to high monetary and scheduling impacts resulting from these sites, respectively. See the following table and figure for details.

Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernible during the project reconnaissance may occur. The GeoEnvironmental Section should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

If there are questions regarding the geoenvironmental issues, please contact me, at 919 707-6859.

cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer

Brian Hanks, PE, State Structures Engineer

Dale Burton, PE, PLS, State Locations and Surveys Engineer

Carl Barclay, PE, State Utilities Manager

Rick W Baucom, PE, Division Construction Engineer

Kenny Hill, Division Right of Way Agent

Kevin Miller, PG, Geotechnical Regional Manager

Eric Williams, PE, Regional Geological Engineer

Steve Grimes, ROW Unit, Negotiations, State Negotiator

row-notify@ncdot.gov

roadwaydesign@ncdot.gov

hydraulics_notify@ncdot.gov

(01) Property Name:

Bellsouth
302 Potts St. AKA 150 W. Walnut St.
Davidson, NC

Property Owner:

Bellsouth Telecommunications Inc.
PO Box 7207
C/O AT&T Property Tax
Bedminster, NJ 07921

Facility ID: NA

Incident Type/Number: 27140

UST Number: MO-0226

UST Owner:

Bellsouth Telecommunications Inc.
PO Box 7207
C/O AT&T Property Tax
Bedminster, NJ 07921



Anticipated Impacts: Low

This parcel is currently the site of a telecommunications facility (image view northward). The site currently has a 3,500-gallon diesel fuel above ground storage tank (AST) along the north-northeastern side of the building. NCDEQ Incident Number 27140 was assigned to this parcel with respect to an emergency generator UST Incident that was closed out c. 1998. (This site may include the following facility whose location is unclear: Southern Bell-GLC 22545, Facility Id: 0- 017309, Bellsouth Telecommunications Inc. 7825 Red Top Road, Karen J Rhyne MacClenny). The current design of the project proposes to install a multiuse trail/sidewalk along the southwestern edge of the property-the proposed design does not impact the current AST.

(01) Property Name:
METROLINA WAREHOUSE LLC
(NPARNO 37119_00325301)
301 DEPOT ST.
Davidson, NC

Property Owner:
METROLINA WAREHOUSE LLC
1520 18TH AV EAST
Seattle, WA 98112

UST Owner:
NA

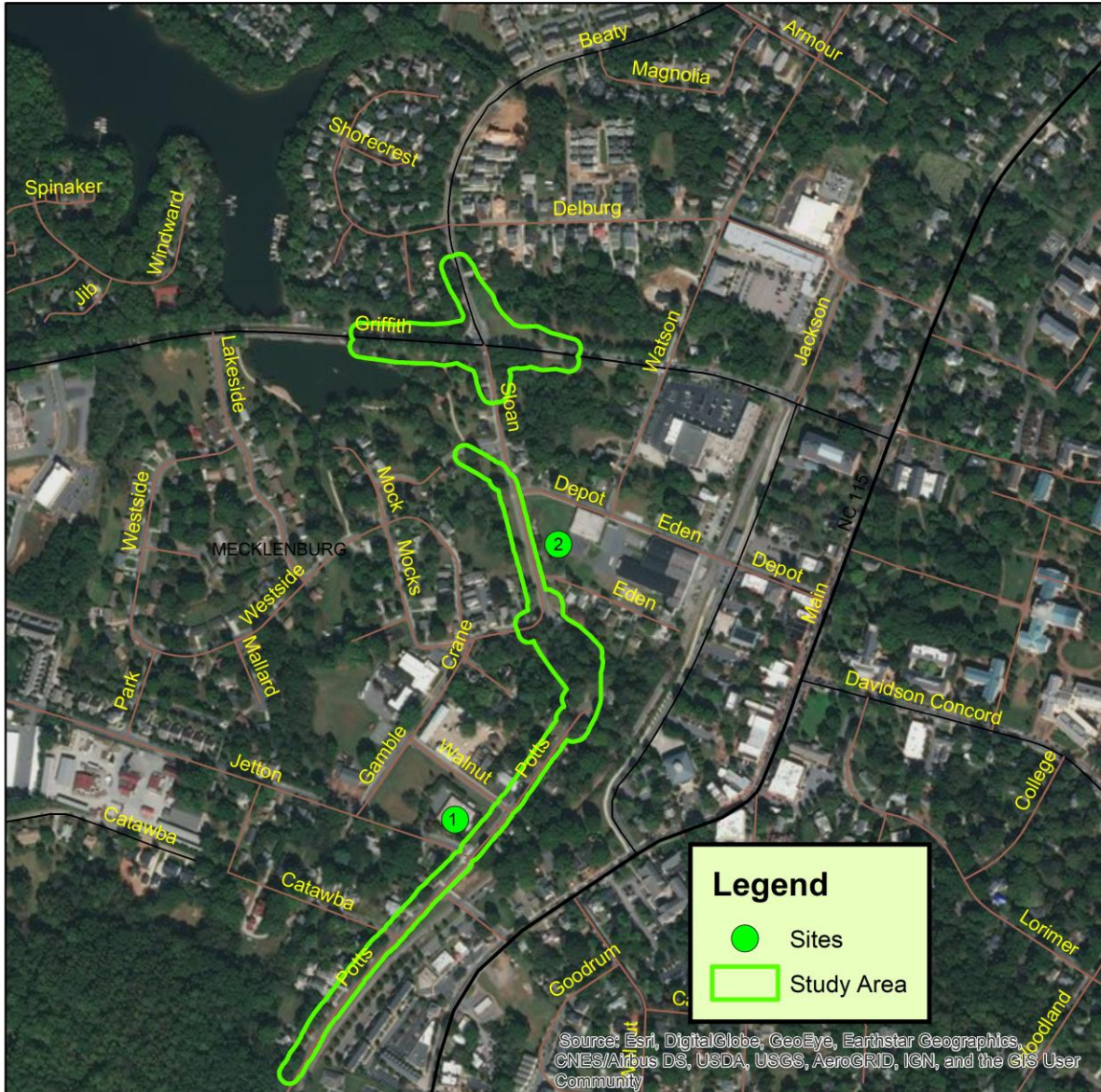
Facility ID: NA
Incident Type/Number: NA
UST Number: NA
Brownfields Application Number:
19041-15-060
Status: Active Eligible to become Brownfields
Property as of 8/5/2015



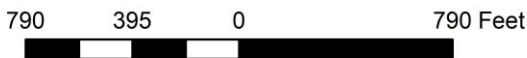
Anticipated Impacts: Low

This parcel is the former site of Metrolina Warehouse that was an asbestos product manufacturing facility (image view southeastward). It is currently used for other purposes including Crossfit, Rumor Mill Market, Sofas and Cheers, Flying Fish Seafood, and No Kidding Goat Soaps. The 4.74 acre site has a status of Active Eligible to become a Brownfields Property. The site formerly produced asbestos containing material (ACM) products utilizing asbestos and created waste containing asbestos. The current DOT design of the project proposes to install a multiuse trail/sidewalk along the western side of Sloan St., across Sloan St. from the parcel. That design does not impact the 301 Depot St. parcel boundaries, however, several neighboring parcels have reportedly been impacted by ACM that was perhaps either disposed or used as structural fill. Potentially the soil underlying existing pavement has also been impacted. The areas where soil is proposed to be disturbed by construction of the design could require testing, and/or disposal, and/or engineering controls during construction. The presence of ACM in the project area, therefore, has a moderate to high impact on the project.

Appendix A
Location of GeoEnvironmental Sites of Concern



Project 46452.1.1 (TIP # U-5907)
Potts-Sloan-Beatty Connector in Davidson.
Construct roadway on new location.
Mecklenburg County



NC Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section

