

BROWNFIELDS SOIL MANAGEMENT PLAN
Erwin Square / Former Burlington Industries Site
749 Ninth Street
Durham, North Carolina
S&ME Project No. 1054-10-288C

Prepared for:

Crescent Ninth Street Venture I, LLC
227 West Trade Street, Suite 1000
Charlotte, NC 28202

Prepared by:



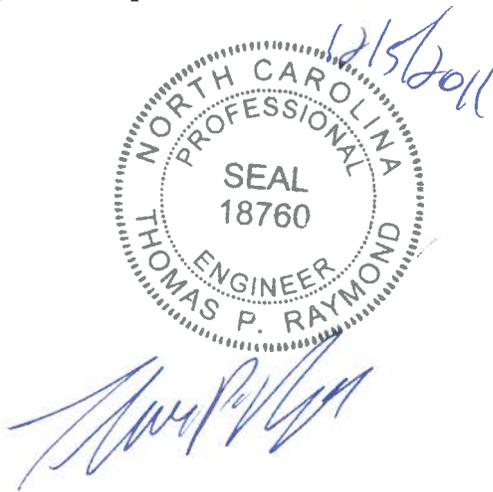
S&ME, Inc.
3201 Spring Forest Road
Raleigh, North Carolina 27616

December 5, 2011

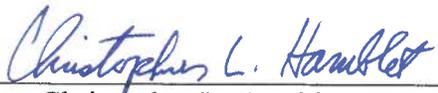
BROWNFIELD SOIL MANAGMENT PLAN

Erwin Square / Former Burlington Industries Site
749 Ninth Street
Durham, North Carolina
S&ME Project No. 1054-10-288C
Prospective Developer: Crescent Ninth Street Venture I, LLC

I hereby certify this 5th day of December, 2011, that this report was prepared by me or under my direct supervision.



Thomas P. Raymond, P. E.
Environmental Services Manager
NC Professional Engineer No. 18760



Christopher L. Hamblet, CHMM
Environmental Scientist
Certified Hazardous Materials Manager No. 15089

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1.0 PROJECT INFORMATION

1.1 Purpose

The Prospective Developer, Crescent Ninth Street Venture I, LLC, intends to develop the former Burlington Industries Erwin Mills Site located at 749 Ninth Street in Durham, North Carolina (the Site), under a Brownfield Agreement with the North Carolina Brownfields Program (NCBP), administered by the North Carolina Department of Environmental and Natural Resources (NCDENR). The purpose of this Soil Management Plan is to provide details regarding soil management measures that will be put in place to satisfactorily complete the development under the terms of the Brownfields Agreement (BFA).

1.2 Background

The Site is 6.38 acres in area and is the central portion of a 14.272-acre parent property that extends from Hillsborough Road to Main Street. The proposed development will have a street address of 749 Ninth Street. The Site is located in an urban area of western downtown Durham, consisting primarily of commercial and residential areas, as shown on **Figure 1**. The Site is currently a mostly undeveloped, grassed lawn area, as shown on **Figure 2**. The Site was once part of the former Burlington Industries Erwin Mills textile plant, which occupied the Site and surrounding area from the 1890s until the late 1980s. The former industrial facilities of the site were demolished between 1987 and 1989. One of the mill buildings remains present adjacent to the east of the site, and is currently used for office space and residential purposes. Site soils are contaminated with polycyclic aromatic hydrocarbons (PAHs). An off-site release of chlorinated solvents to groundwater (Incident Management Database Incident No. 20604) has migrated onto the Site.

Refer to **Figure 3, Soil Sample Location Map**, for the soil boring locations conducted by S&ME on March 31, 2011 and designated as SB-1 to SB-9, presented as an overlay of an aerial photograph dated March 3, 1977 that shows the structures present at that time. Two soil samples were selected for laboratory analysis from each boring based on field screening results. The soil samples were designated by the boring number followed by the depth interval. The soil sample analytical results were compared to the NCDENR, Division of Waste Management (DWM), Inactive Hazardous Sites Branch (IHSB), Preliminary Soil Remediation Goals (PSRGs) and to the NCDENR, DWM, Underground Storage Tanks Section, Maximum Soil Contaminant Concentration (MSCC). The IHSB has two PSRGs: 1) a “health-based” remediation goal for total concentrations of contaminants, and 2) a “protection of groundwater” remediation goal for leachable concentrations of contaminants. A summary of the parameters that were detected during the soil sample analysis and a comparison to the NCDENR standards are summarized in **Table 1, Soil Analytical Results Summary**.

2.0 PROPOSED DEVELOPMENT

Crescent Ninth Street Venture I, LLC, is planning to redevelop the Site with a multi-story residential development and a parking deck (**Appendix I**). In addition to the residential units and parking deck, the development will include a clubhouse, a gym, four courtyard areas, and associated landscaping, sidewalk, infrastructure improvements, and other uses approved by NCDENR.

Based on the presence of a known groundwater contaminant plume, the proposed structures at the site will be constructed with a means of preventing vapor migration into the building, such as a vapor barrier. Based on 2005 groundwater elevation data provided in the LUST/IMD incident files, the depth to groundwater ranges from approximately 6.5 feet below the ground surface (bgs) to 11.5 feet bgs. Excavation into the groundwater table is not anticipated for the proposed development, and no groundwater usage is planned.

This Plan has been prepared to define the procedures required for excavation and management of defined areas of contamination not meeting the soil concentrations acceptable for this Site, and to prepare for post-construction sampling.

Site civil preparation activities within the scope of the Plan are defined to comprise:

- the mass civil cut and subsequent soil balancing to achieve final elevation;
- the excavation of soil for the installation of the footers;
- the removal of subsurface footers/foundations; and
- the excavation of soil for subsurface utility chase corridors.

3.0 PROJECT NOTIFICATIONS AND CONTENT PROCEDURES

3.1 NCDENR Notification

This Soil Management Plan constitutes the advance written notice required by the BFA for the following activities.

- Per paragraph 13.d. of the BFA, soil on the Property may not be disturbed until any sampling DENR requires has been conducted, and any actions DENR requires based on the sampling results have been taken, to ensure the Property is suitable for high-density residential purposes, and to ensure that public health and the environment are fully protected. Such actions may include the capping or treatment of soil *in situ* and/or disposal of soil off-site.

3.2 Areas with Identified Soil Impacts

A shallow soil sampling program has been completed at the Property, as described in the S&ME report *Revised Brownfields Assessment and Receptor Survey, dated July 18, 2011*. The sampling program was performed to indicate the presence or absence of target analytes in soil at specific locations where past use or storage of hazardous materials or petroleum products was suspected based on our review of historical records. The laboratory analytical results of the soil samples indicated that certain contaminant concentrations exceeded their respective NCDENR standards. The soil sample locations are presented on **Figure 3, Soil Sample Location Map**, and the analytical data from our previous soil sampling are summarized on **Table 1, Soil Analytical Results Summary**.

The former Burlington Industries above-grade structures, paved areas and the railroad spur have all been demolished and removed from the Property, and the site was likely graded after demolition. Based on the findings of the *Revised Brownfields Assessment and Receptor Survey*, the long-term and varying past industrial uses of portions of the site, and the likelihood that the soil on-site has been graded or disturbed, it is possible that sporadic shallow soil contamination may be present across portions of the Property.

3.3 Previously Unidentified or Unforeseen Conditions

Previously unidentified or unforeseen conditions are defined to mean the discovery of potentially-regulated (i.e., by NCDENR) soil or groundwater that presents, through normal and routine field observations, field detection instruments or laboratory analyses, characteristics different from other non-affected media in the area being worked. These characteristics are typically expected to be triggered by visual and odor indications.

If previously unidentified or unforeseen conditions are encountered during site development, it is each worker's obligation to report such conditions to their immediate supervisor who will, in-turn, notify the Construction Representative identified on the Project Contact List in the following section. The Project Superintendent will then notify the Site Environmental Representative. The Protocol presented herein will then be implemented by Crescent Ninth Street Venture I, LLC, as

applicable and appropriate, to manage the proper resolution of unidentified or unforeseen conditions.

3.4 Project Contact List

Contact for implementation of this Plan should be made directly with the Project Superintendent or, in his absence, the Site Environmental Representative. Back-up contacts are (contact in the order listed):

On-Site Contacts:

Construction Representative:

James L. Donaldson
Building State Group
4417 Old Charlotte Highway
Monroe, NC 28111
Ph: 704-289-6400
Mobile: 704-698-6368

Site Environmental Representative:

Mr. Chris Hamblet, CHMM
chamblet@smeinc.com
S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616
Ph: 919-872-2660
Fax: 919-876-3958
Mobile: 919-801-5683

Off-Site Contacts:

Developer Representative:

Brian T. Nicholson
Development Manager
btnicholson@crestent-resources.com
Crescent Ninth Street Venture I, LLC
227 W. Trade St, Suite 1000
Charlotte, NC 28202
Ph: 980-321-6237
Fax: 980-321-6240
Mobile 704-956-3995

Environmental Representative:

Mr. Samuel P. Watts, P.G.
swatts@smeinc.com
S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616
Ph: 919-872-2660
Fax: 919-876-3958

3.5 Reporting

Should unidentified and unexpected conditions be encountered, all contractors and sub-contractors must report those conditions immediately to the Project Superintendent or, in his absence, to the Site Environmental Representative. The responsibility of notification to NCDENR and other external parties lies solely with Crescent Ninth Street Venture I, LLC or, at direction from Crescent Ninth Street Venture I, LLC, with S&ME acting on its behalf.

The NCDENR / NC Brownfields Program (NCBP) contact is:

Dr. Joe Ghiold, Brownfields Project Manager
joe.ghiold@ncdenr.gov
NCDENR, DWM, NC Brownfields Program
217 W. Jones Street
Raleigh, NC 27603-6100
Ph: (919) 707-8375

3.6 *Deviation from Approved Plan*

This Plan is intended to be dynamic and to be adapted to specific and actual Site conditions. Accordingly, should such conditions warrant a change either by addition, deletion or modification of a procedure, such may be accomplished with agreement between the Project Superintendent and the Site Environmental Representative after consultation with the NCBP contact. Such changes will comply with applicable local, State and Federal rules and regulations. The NCBP will be notified promptly should such a change be implemented. A written amendment shall be prepared and submitted to NCBP for approval (the use of e-mail correspondence shall suffice for approval, followed by a hard copy or electronic copy provided on Compact Disk or similar media). Amendments must have the concurrence of both Crescent Ninth Street Venture I, LLC and the NCBP prior to implementation of each amendment. Approved Amendments shall be included in **Appendix III** of this Brownfields Soil Management Plan.

4.0 HEALTH & SAFETY CONSIDERATIONS

Because this is a Brownfield Site, work by each site contractor and site sub-contractor must be accomplished within the framework of an appropriate Site-Specific Health and Safety Plan (HASP).

Crescent Ninth Street Venture I, LLC specifies that Level D Personal Protect Equipment (PPE), which includes hard-hats, steel-toed safety boots, safety glasses with side-shields and high-visibility safety vests, as the minimum level of PPE to be used for all site work. All truck drivers who exit their trucks on-site will be subject to the health and safety requirements established for the Property.

Crescent Ninth Street Venture I, LLC via S&ME will make available to contractors and sub-contractors, upon request from the contractors and sub-contractors for provision, the due diligence data so that informed and responsible decisions can be made by those contractors and sub-contractors regarding the health and safety of their employees. Copies of the HASP used for the environmental and geotechnical investigations are available for information purposes only upon request.

Each site contractor and site sub-contractor performing work related to soil handling must prepare its own Site-Specific HASP. Each HASP shall demonstrate that their work activities will not cause adverse exposures to their employees or the surrounding public areas.

Each contractor and sub-contractor is specifically and wholly responsible for the safety of their workers, including any PPE and training, as may be warranted or required by law and regulations. Crescent Ninth Street Venture I, LLC, and S&ME, Inc., are responsible only for the safety of their respective employees.

5.0 PROVISIONS FOR HANDLING POTENTIALLY REGULATED SOIL

5.1 *Applicable Areas*

The topsoil across the site will be stockpiled, sampled and removed from the site for proper disposal. The topsoil is defined as the surficial soil containing organic material from the existing ground surface to a depth of approximately six inches below grade. The shallow subsoil across the Property will be cut or filled to achieve the desired final site elevation grades (**Appendix I – Drawing C-5**). The installation of footers and subsurface utilities (i.e., cable, telephone, electrical, natural gas, water, sewer, stormwater, etc.) will require the excavation of trenches. The Site Environmental Representative, or his designee, shall be on-site during activities that disturb existing soils at the site to observe and document the soil grading, excavation and stockpiling activities. In the event that previously unidentified or unforeseen conditions are encountered, the Site Environmental Representative will be available on-call at other times when grading activities are occurring on-site (this would include placing lifts of clean fill material or soil compaction).

5.2 *Evaluation and Excavation*

Topsoil collected from the site will be stockpiled, sampled and removed from the site for proper disposal. Based on previous environmental assessment activities conducted at the Property, soil contaminant concentrations detected above regulatory limits are at concentrations that are below the detection levels of typical field screening devices, such as a Photo-Ionization Detector (PID) or Organic Vapor Analyzer (OVA). Due to the potential presence of residual contamination in the soil, composite samples representative of the stockpiled topsoil will be collected. In general accordance with typical stockpile sampling protocols, such as those provided in NCDENR Division of Waste Management's *Guidelines for Sampling*, the composite samples will consist of six subsamples, and will be collected at a frequency of approximately one sample per 200 cubic yards. The topsoil samples will be submitted for the following laboratory analyses:

Parameter	Analytical Method
Volatile Organic Compounds + 10 TICs	EPA Method 8260B
Semi-Volatile Organic Compounds + 10 TICs	EPA Method 8270C
8 RCRA Metals	EPA Method 6010/7470
PCBs	EPA Method 8082

If soil sample results are found to be above applicable regulatory limits and/or action levels for unregulated disposal, they will be manifested and transported off-site for proper disposal as described in Section 5.3.

Due to the presence of unsuitable organic material and debris in the subsoil, the shallow soils beneath the topsoil across the site will be excavated to depths ranging from about 2 feet to 12 feet below ground surface (see Cut-to-Fill Map in Appendix I). These soils will be stockpiled, screened, amended with new fill, and replaced onsite as compacted fill. Areas where amended soil has been placed will either be capped with at least 24 inches of new fill or covered by a non-pervious surface such as a structure or pavement. The Site Environmental Representative, or his designee, shall be on-site to observe and document the soil removal and the placement of shallow fill (0' to 2' below

final grade elevation). The Site Environmental Representative will periodically field screen soils as necessary. In the event that previously unidentified contaminant conditions are suspected, soil samples will be collected and submitted for the laboratory analyses listed above.

The unsuitable organic material and debris removed from the subsoil during the amendment process will be segregated and stockpiled on-site. Composite samples representative of the stockpiled unsuitable organic material and debris will be collected at a minimum frequency of approximately one sample per 200 cubic yards and submitted for the laboratory analyses listed above.

Soil excavation shall follow these procedures:

- Based on previous environmental assessment activities conducted at the Property, it is not anticipated that soil handling will require a work stoppage or an upgrade from Level D PPE to Level C. However, in the event of the discovery of a previously unknown area of potential soil contamination, the Site Environmental Representative will be responsible for evaluating whether a work stoppage or a PPE upgrade is appropriate. In the event of work stoppage, the Site Environmental Representative will inform the NCBP Representative.
- The number of samples to be collected from the excavated soil will depend upon the quantity of soil generated and the specific conditions at hand. In the case of potentially-affected soil encountered during site grading, a sampling protocol will be performed in a manner consistent with and approved by the NC Brownfields Program.
- The parametric coverage to be selected for soil sample analysis will depend upon the specific conditions at hand and will rely upon existing soil sampling data and visual observation to assist in parametric selection. Typical parameters that may be reasonably expected to occur include SVOCs and PAHs.
- Excavated areas will be managed as practicably as possible to prevent accumulation of rainwater. Whenever possible, excavation to remove contaminated soil will be performed when prevailing and incipient weather conditions are favorable. Plastic sheeting and temporary backfilling with non-contaminated soil may be used to reduce/preclude the accumulation of storm water in the excavated areas.
- The potentially-affected area will be marked with yellow caution tape. Safety precautions will not be limited to only caution tape. Safety precautions will be adjusted, as appropriate, based on the circumstances. For instance, high visibility snow fencing, safety cones, temporary signage and/or temporary hard-fencing may be used as needed to best suit the specific condition at-hand.

Staging/Stockpiling

Areas used for soil staging will be clearly marked both in the field and on sketch outlines.

- Stockpiling of soil for several days prior to loading may be performed, pending laboratory analysis results.
- If soil is stockpiled, appropriate erosion and sediment control measures, such as hay bales and/or silt fencing, will be implemented.
- If stockpiled, potentially affected soil and soil exceeding PSRGs will be stored on a liner and will be covered with secured plastic sheeting while not being worked and at the end of

each day. Appropriate erosion and sediment controls, such as hay bales and/or silt fencing, will also be implemented for this soil.

- Potentially affected soil will be kept segregated from the soil that has laboratory data indicating that constituents exceed their respective PSRGs.

Transport and Disposal of Contaminated Soil

Contaminated soil scheduled for off-site disposal will be properly characterized for disposal, manifested, transported and disposed of in compliance with applicable laws. A record of each truck dispatched from the Site for off-Site disposal will be paired with the associated manifest and weight ticket report received from the landfill. Based on previous environmental assessment activities conducted at the Property, off-site disposal of soil is expected to be characterized as non-hazardous solid waste.

- Care will be given to the transport truck tires to prevent cross-contamination of soil from the excavation to the remainder of the Site.
- Truck loads will be covered prior to leaving the Site.
- During bulk transport of non-hazardous soils, applicable marking requirements will be used to display the appropriate DOT placards on the trailer.
- Proper Class 9 placards will be used if hazardous soil/material is being transported off-Site for disposal, although this is not anticipated.
- Proper documentation required for the shipment of contaminated waste off-site will be managed in the field. A record of each truck dispatched from the Property for off-site disposal will be paired with the associated manifest and weight ticket report received from the landfill or disposal facility.
- Crescent Ninth Street Venture I, LLC, will retain responsibility for signatory execution of all waste profiles and manifests as the generator.
- Soil will be disposed of in accordance with applicable state and local regulations at an appropriate disposal facility approved by Crescent Ninth Street Venture I, LLC.
- A copy of the approved profile and acceptance from the selected off-site waste disposal facility will be provided to the NCBP Project Manager.

5.3 Recyclable Material from Demolition

Aggregate materials that may be encountered on the Site may be re-used whenever feasible for beneficial fill. Materials that cannot be used as beneficial fill will be disposed of in an appropriate off-Site C&D landfill.

Concrete, Masonry Block, Brick and Asphalt – Acceptable

- Concrete, masonry block, brick and asphalt material will be inspected visibly for distinct oily staining.
- If no such staining is observed, the concrete, masonry block, brick or asphalt will be considered clean and will be prepared for re-cycling, as in routine demolition projects.
- Large pieces of concrete, masonry block, brick and asphalt encountered may be broken into smaller pieces by an on-Site pulverizer to meet the specification of 2-inch dimensions or less.

- The steel reinforcement bars (rebar) used in the concrete may be extracted during crushing.
- The crushed concrete, block, brick and asphalt may then be stockpiled on-Site for use as beneficial fill during Site preparation.
- The rebar may be sent off-Site as scrap to be re-cycled.

Concrete, Masonry Block, Brick and Asphalt – Not Acceptable

- If oily staining is observed, this concrete, masonry, block, brick or asphalt will be considered affected.
- This material will be stockpiled in a designated area and disposed of in an appropriate off-Site C&D landfill.
- Masonry block and brick that presents lead-based paint greater than the regulatory trigger will be segregated from the other block and brick; not crushed; and, disposed of at an appropriate off-site C&D landfill.
- The rebar may be extracted from this concrete and sent off-site as scrap to be recycled.

No asphalt material will be placed in direct contact with groundwater.

5.4 Nuisance Dust Abatement

Appropriate dust control measures will be implemented as needed during management of unidentified or unforeseen conditions to minimize dust emissions from intrusive activities.

- Dust levels will be visually monitored by Crescent Ninth Street Venture I, LLC and/or their designee to ensure compliance with OSHA. If dusty conditions are observed or anticipated, appropriate measures will be taken to reduce dust levels, such as wetting the exposed soil areas.

5.5 Fill Material

To achieve the proposed site grade, portions of the Site will require fill material.

- Fill may be composed of soil cut from other areas of the Site, crushed concrete obtained from Site foundation slab demolition, or from off-site, non-contaminated soil. Fill material brought to the site from off-site sources will be stockpiled prior to placing as lifts or used for soil amendment. Composite soil samples will be collected from the stockpiled fill material. In general accordance with typical stockpile sampling protocols, the composite samples will consist of six subsamples, and will be collected at a frequency of approximately one sample per 200 cubic yards. The samples will be submitted for analysis for Volatile Organic Compounds (EPA Method 8260) and for Semi-Volatile Organic Compounds (EPA Method 8270) at a frequency of approximately one sample per 200 cubic yards. The source of fill material brought in from off-site sources shall be documented and submitted to NCDENR.
- The amount of staged backfill will be minimized by placing soil directly into the excavated areas when possible, thereby minimizing multiple and inefficient handling of the soil.

6.0 PROVISIONS FOR HANDLING POTENTIALLY-REGULATED WATER

6.1 *Groundwater*

Contaminated groundwater has been identified in the north and northwest portions of the Site. However, because contaminated groundwater is spread over such a large portion of the site, and because groundwater has the ability to be easily mobilized by site de-watering activities, any groundwater encountered at the site should be considered contaminated and contact with groundwater should be avoided. Groundwater is not anticipated to be encountered based on the planned grading/filling activities and the known depth to groundwater (**Appendix I – Drawing C-5**). In the event groundwater is encountered, the applicable excavation activities should terminate until the groundwater is characterized. The following procedures should be followed to address groundwater.

- Groundwater encountered during the site work, or management of unidentified water that must be removed and disposed of for work to proceed (after allowing the water to percolate), will be containerized for characterization by analytical data. Groundwater samples will be analyzed for VOCs by EPA Method 8260B and for SVOCs for poly-cyclic aromatics (PAHs) only by EPA Method 8270D. If contained groundwater is determined to be above regulatory limits, the NCBP contact will be consulted to determine appropriate action.

6.2 *Stormwater*

- Storm water will be managed in compliance with the approved E&SC Plan and corresponding NPDES Permit.

7.0 DECONTAMINATION PROCEDURES

- Equipment working within areas of known contamination will be required to be evaluated for decontamination prior to demobilizing from the site.
- Evaluation as to whether personnel or vehicle decontamination will be required will be made by the Site Environmental Representative on a case-by-case basis considering the nature and concentration of the contamination encountered.
- Dry decontamination procedures for vehicles are likely to include, but may not be limited to, brushing or scraping of tires, treads, undercarriages and buckets of vehicles and equipment that may have come in contact with contaminated materials.
- Such dry decontamination will occur in designated area constructed to contain and collect the recovered solids and liquids.
- Wet decontamination procedures for vehicles are likely to include, but may not be limited to, pressure washing tires, treads, undercarriages and buckets of vehicles and equipment that may have come in contact with contaminated materials.
- Such wet decontamination will occur in designated area constructed to contain and collect the recovered solids and liquids.
- Personnel decontamination procedures will comply with those specified in each contractor's/sub-contractor's Site-Specific HASP for their respective workers.

8.0 POST CONSTRUCTION CONFIRMATION SAMPLING

Following the conclusion of construction-related soil disturbance, but prior to non-construction worker occupation of the site, surficial soils shall be sampled by the Site Environmental Representative under a sampling and analysis plan approved by NCDENR in all areas not covered by at least two feet of clean fill and/or capped by impervious surfaces or buildings placed on the property. Such sampling and analysis plan may include confirmation that any such fill has no constituent above residential SRGs. This post-construction sampling may be completed in stages, as each phase of the development project is completed.

The specific sampling protocol will be established consistent with NCDENR guidelines and submitted for approval by the NCDENR Brownfields Program. The parametric coverage to be selected will depend upon the specific conditions at hand and will rely upon existing soil sampling data and visual observation to assist in parametric selection. Typical parameters that may be reasonably expected to occur include semi-volatile organic compounds (SVOCs) and PAHs. Surficial soils determined by such sampling to be in excess of the applicable soil remediation goals (“SRGs”) of NCDENR’s Inactive Hazardous Sites Branch shall either (a) be removed to at least two feet below grade and covered with clean fill, (b) capped with at least two feet of clean fill or impervious surface, or (c) addressed in another manner approved in writing by NCDENR. The Site Environmental Representative shall document in writing the sampling and any follow-up activity undertaken under this Section 8.0 as each phase of the development project is completed and sampled.

9.0 REFERENCES

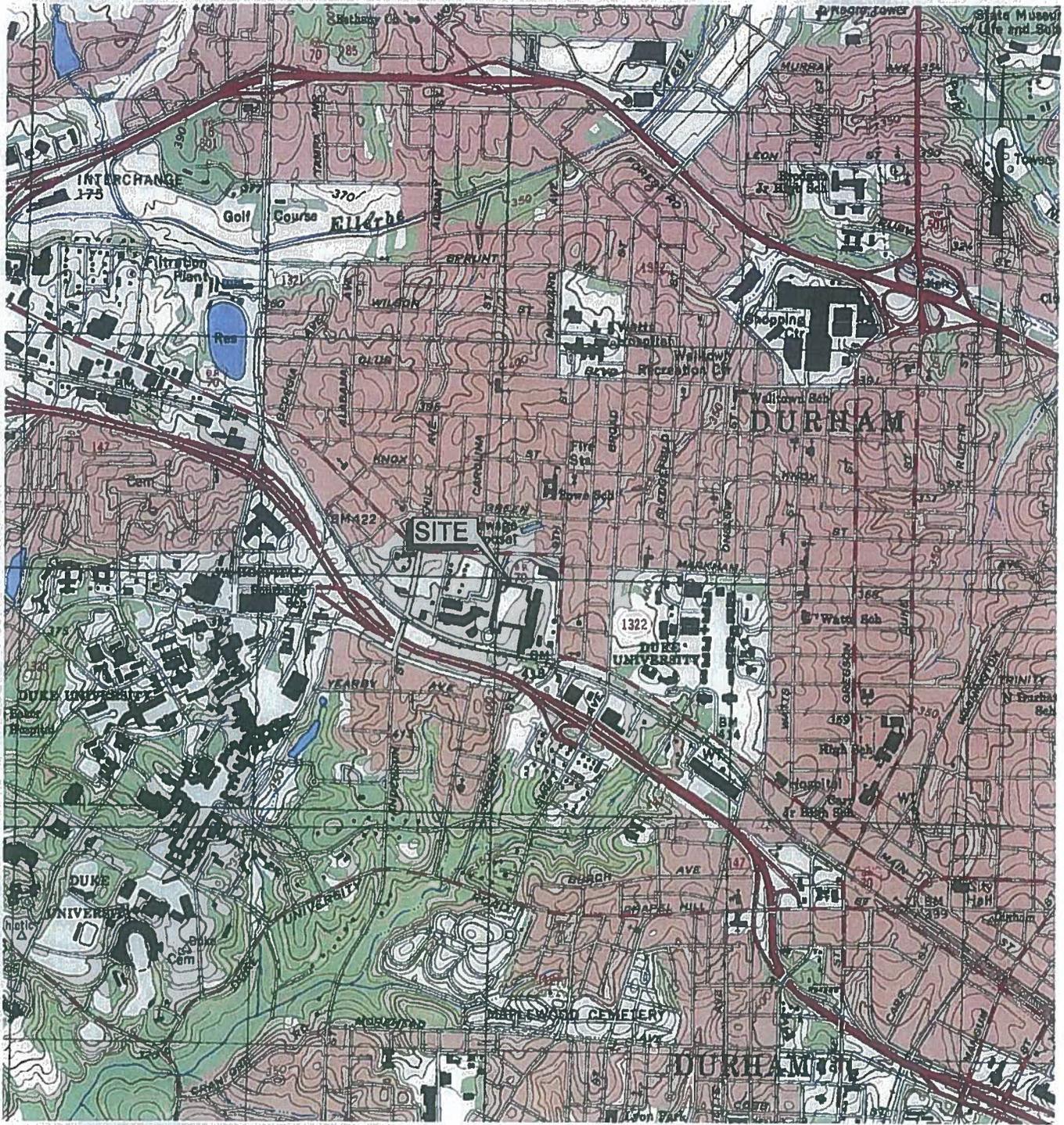
- *Phase I Environmental Site Assessment, 14.27-Acre Erwin Square Parcel* (the parent property for the Site), prepared by S&ME, Inc., dated March 29, 2007
- *Phase I Environmental Site Assessment*, prepared by S&ME, Inc., dated October 7, 2010
- *Brownfields Assessment and Receptor Survey*, prepared by S&ME, Inc., dated May 17, 2011
- *Revised Brownfields Assessment and Receptor Survey*, prepared by S&ME, Inc., dated July 18, 2011
- *Groundwater Monitoring Report, Erwin Square Site, (Former Burlington Industries Textile Mill)*, 2200 West Main Street, Durham, North Carolina, prepared by Mid-Atlantic Associates, Inc., dated July 19, 2011

10.0 CERTIFICATION OF SITE PERSONNEL

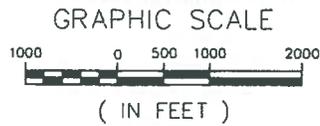
Contractors and subcontractors working at the site shall acknowledge that they have read and understand the preceding Brownfields Soil Management Plan and commit to complete Site-related work activities and those Site-related work activities for employees and subcontractors under their supervision in accordance with its provisions and procedures. Acknowledgement shall be documented by signing the site certification in **Appendix II**.

FIGURES

S:\PROJECTS\2010\10-288C Erwin Square - Brownfields Soil & Vapor Management Plans\CAD\A2788.dwg, FIG1, 11/22/2011 2:28:51 PM, 1:1



TOPO SOURCE: NCGS DRG
 NW DURHAM, DATED 2002
 SW DURHAM, DATED 2002
 CONTOUR INTERVAL 5 FEET



A-2788

SCALE: 1" = 2000'
 DATE: NOV. 2011
 DRAWN BY: BTR
 PROJECT NO: 1054-10-288C

S&ME
 WWW.SMEINC.COM
 NC ENGINEER LICENSE #F-0176
 3201 SPRING FOREST RD, RALEIGH, NC 27616

VICINITY MAP
 FORMER BURLINGTON INDUSTRIES SITE
 749 NINTH STREET
 DURHAM, NORTH CAROLINA

FIGURE NO.

1



IMAGE SOURCE: NC ONEMAP, DATED 2010

 WWW.SMEINC.COM NC ENGINEER LICENSE #F-0178 5201 SPRING FOREST RD, RALEIGH, NC 27616	SCALE: 1" = 120' PROJECT NUMBER: 1354-10-288C DRAWING NUMBER: B-1748	DATE: NOV. 2011 DRAWN BY: BTR CHECKED BY:
	FIGURE NO. <div style="text-align: center; font-size: 24pt; font-weight: bold;">2</div>	

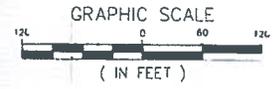
SITE MAP

FORMER BURLINGTON INDUSTRIES SITE
749 NINTH STREET, DURHAM, NORTH CAROLINA

S:\PROJECTS\00100-288C (Wm. Square - Brownfield) Soil & Vapor Management - final\CK01874906g_L1222011_11222011_28223_PAK_11



LEGEND
 ● SOIL BORING LOCATION



AERIAL PHOTO FROM NCDOT, DATED MARCH 3, 1977

SCALE: 1" = 120'	DATE: NOV. 2011
	DRAWN BY: BTR
PROJECT NUMBER: 1054-10-288C	CHECKED BY:
DRAWING NUMBER: B-1749	
 WWW.SMEINC.COM NC ENGINEER LICENSE #F-0176 1201 SPRING FOREST RD., RALEIGH, NC 27616	
SOIL SAMPLE LOCATION MAP 5.5 ACRE FORMER BURLINGTON INDUSTRIES SITE 748 NINTH STREET, DURHAM, NORTH CAROLINA	
FIGURE NO.	3

TABLES

**Table 1
Soil Analytical Results Summary
Proposed 5.5-Acre Erwin Square Site
2109 Hillsborough Road
Durham, North Carolina
S&ME Project Number 1054-10-288A**

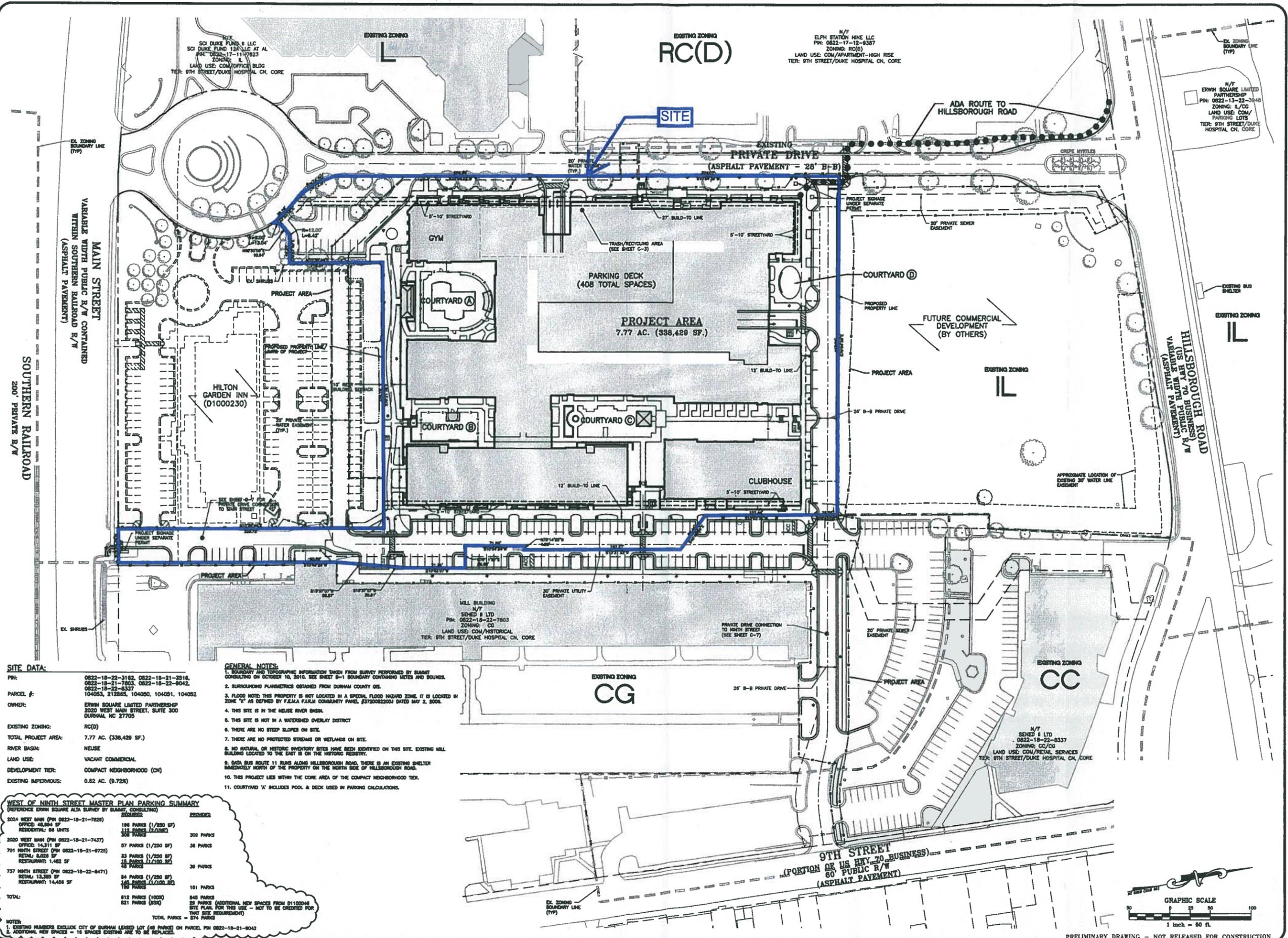
Parameter Type ==>			RCRA Metals						Volatile Organic Compounds		Semi-Volatile Organic Compounds											PCBs			
EPA Analytical Method ==>			7471	6010B					8260B		8270D											8082			
Parameter ==>			Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Benzene	1,2,4-Trimethylbenzene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	PCB 1254	
Sample ID	Depth	Collection Date																							
SB-1-1-3	1-3	3/31/2011	<0.0015	<0.33	180	<0.040	11	12	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	<0.0047	
SB-1-3-5	3-5		<0.0015	2.8	100	<0.040	8	13	<0.00042	<0.00033	<0.0074	0.1	0.11	<0.0089	0.056	0.09	0.086	<0.0068	0.22	0.056	<0.0072	0.13	0.16	0.032	
SB-2-1-3	1-3		<0.0015	<0.33	120	<0.040	12	16	<0.00042	<0.00033	0.049	0.22	0.28	0.11	0.13	0.2	0.23	0.043	0.42	0.13	<0.0072	0.24	0.32	NA	
SB-2-3-5	3-5		<0.0015	1.5	46	<0.040	10	16	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	0.048	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-3-1-3	1-3		<0.0015	<0.33	8.6	<0.040	7.9	5.1	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-3-3-5	3-5		<0.0015	<0.33	11	<0.040	6.2	5.1	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-4-1-3	1-3		0.14	<0.33	89	3.4	7.6	160	<0.00042	<0.00033	<0.037	0.24	0.31	<0.044	<0.045	0.22	0.23	<0.034	0.45	<0.036	<0.036	0.29	0.41	NA	
SB-4-3-5	3-5		<0.0015	<0.33	18	<0.040	18	13	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-5-1-3	1-3		0.032	<0.33	29	<0.040	12	9.4	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-5-3-5	3-5		<0.0015	<0.33	34	<0.040	8.2	16	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-6-1-3	1-3		0.062	<0.33	81	0.73	6.6	80	0.002	0.0013	<0.037	0.36	0.51	<0.044	0.32	0.38	0.4	<0.034	0.66	0.29	0.68	0.49	0.6	NA	
SB-6-3-5	3-5		0.046	<0.33	59	2.2	8	64	0.0014	<0.00033	0.042	0.11	0.18	0.054	0.11	0.13	0.13	0.043	0.17	0.097	0.64	0.19	0.14	NA	
SB-7-1-3	1-3		0.19	<0.33	35	<0.040	12	10	<0.00042	<0.00033	<0.0074	0.072	0.085	<0.0089	0.043	0.064	0.065	<0.0068	0.15	0.043	<0.0072	0.1	0.12	NA	
SB-7-3-5	3-5		0.028	<0.33	46	<0.040	6.7	13	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
SB-8-1-3	1-3		0.065	3.5	82	<0.040	31	8.6	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	<0.0047	
SB-8-3-5	3-5		<0.0015	1.4	160	<0.040	40	22	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	<0.0047	
SB-9-1-3	1-3		<0.0015	2.8	70	<0.040	14	15	<0.00042	<0.00033	<0.0074	0.057	0.072	<0.0089	<0.0090	0.053	0.053	<0.0068	0.092	<0.0073	<0.0072	0.047	0.068	NA	
SB-9-3-5	3-5		<0.0015	1.8	41	<0.040	11	9.1	<0.00042	<0.00033	<0.0074	<0.0093	<0.0098	<0.0089	<0.0090	<0.0085	<0.013	<0.0068	<0.011	<0.0073	<0.0072	<0.0085	<0.011	NA	
NCDENR IHSB PSRG1 ==>			2.0	0.39	3,000	14	NS	400	1.1	12	3,400	0.15	0.15	1.5	NS	0.015	15	0.015	460	0.15	3.6	NS	340	1.0 *	
NCDENR IHSB PSRG2 ==>			1.0	5.8	580	3	NS	270	0.0073	6.7	660	0.18	0.6	5.9	7800	0.059	18	0.19	380	2	0.21	68	220	0.14 *	
NCDENR MSCC Soil to GW ==>			NS	NS	290	NS	NS	270	0.0056	8.5	940	0.35	1.2	12	6,400	0.096	39	0.17	290	3.4	0.16	56	270	NS	
NCDENR MSCC Residential ==>			NS	NS	3,100	NS	NS	400	18	782	4,600	0.88	0.88	9	469	0.088	88	0.088	620	0.88	313	469	469	NS	
NCDENR MSCC Ind / Comm ==>			NS	NS	81,000	NS	NS	400	164	20,440	122,000	8	8	78	12,264	0.78	780	0.78	16,400	8	8,176	12,264	12,264	NS	

Notes:

All soil sample results and standards presented in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm)
 NCDENR IHSB PSRG1 - NCDENR Inactive Hazardous Sites Branch - Health-Based Preliminary Residential Soil Remediation Goal - August 2011 (exceedance shaded yellow)
 NCDENR IHSB PSRG2 - NCDENR Inactive Hazardous Sites Branch - Protection of Groundwater Preliminary Soil Remediation Goal - August 2011 (exceedance shaded green)
 NCDENR MSCC Soil to GW - NCDENR Soil-to-Water Maximum Soil Contaminant Concentration (exceedance shaded brown)
 NCDENR MSCC Residential - NCDENR Residential Maximum Soil Contaminant Concentration (exceedance shaded blue)
 NCDENR MSCC Ind / Comm - NCDENR Industrial and commercial Maximum Soil Contaminant Concentration (exceedance shaded purple)
 Standard values shown in **bold text** indicates that the value was revised in the August 2011 update to the IHSB PSRG Table
 NA - Not analyzed for specific parameter
 NS - No standard listed for specific parameter
 VOCs - Volatile Organic Compounds
 SVOCs - Semi-Volatile Organic Compounds
 * - Value for total PCBs

APPENDIX I

Selected Construction Drawings – John R. McAdams Company



SITE DATA:

PN: 0822-18-22-3182, 0822-18-21-3316, 0822-18-21-7803, 0822-18-22-8042, 0822-18-22-8337, 104053, 212865, 104090, 104091, 104092

PARCEL #:

OWNER: ERWIN SQUARE LIMITED PARTNERSHIP
2020 WEST MAIN STREET, SUITE 300
DURHAM, NC 27705

EXISTING ZONING: RC(D)

TOTAL PROJECT AREA: 7.77 AC. (338,429 SF.)

RIVER BASIN: NEUSE

LAND USE: VACANT COMMERCIAL

DEVELOPMENT TIER: COMPACT NEIGHBORHOOD (CN)

EXISTING IMPERVIOUS: 0.82 AC. (0.72%)

GENERAL NOTES:

- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN FROM SURVEY PERFORMED BY SURMET CONSULTING ON OCTOBER 10, 2018. SEE SHEET D-1 BOUNDARY CONTAINING METERS AND BOUNDS.
- SURROUNDING PLANNIMETRICS OBTAINED FROM DURHAM COUNTY GIS.
- FLOOD NOTE: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY F.E.M.A. F.A.H.M. COMMUNITY PANEL (372002200) DATED MAY 2, 2008.
- THIS SITE IS IN THE NEUSE RIVER BASIN.
- THIS SITE IS NOT IN A WATERHELD OVERLAY DISTRICT.
- THERE ARE NO STEEP SLOPES ON SITE.
- THERE ARE NO PROTECTED STREAMS OR WETLANDS ON SITE.
- NO NEARBY OR HISTORIC BATTERY SITES HAVE BEEN IDENTIFIED ON THIS SITE. EXISTING MILL BUILDING LOCATED TO THE EAST IS ON THE HISTORIC REGISTRY.
- DATA BUS ROUTE 11 RUNS ALONG HILLSBOROUGH ROAD. THERE IS AN EXISTING SHELTER IMMEDIATELY NORTH OF THE PROPERTY ON THE NORTH SIDE OF HILLSBOROUGH ROAD.
- THIS PROJECT LIES WITHIN THE CORE AREA OF THE COMPACT NEIGHBORHOOD TIER.
- COURTYARD 'X' INCLUDES POOL & DECK USED IN PARKING CALCULATIONS.

WEST OF NINTH STREET MASTER PLAN PARKING SUMMARY
(REFERENCE: ERWIN SQUARE ALTA SURVEY BY SURMET CONSULTING)

ADDRESS	REQUIREMENT	PROVIDED
2024 WEST MAIN (PN 0822-18-21-7829)	196 PARKS (1/250 SF) OFFICE: 48,844 SF RESIDENTIAL: 84 UNITS	309 PARKS
2020 WEST MAIN (PN 0822-18-21-7437)	OFFICE: 14,311 SF RETAIL: 8,628 SF RESTAURANT: 1,482 SF	36 PARKS
701 NORTH STREET (PN 0822-18-21-8720)	33 PARKS (1/250 SF) RETAIL: 11,100 SF 48 UNITS	36 PARKS
737 NORTH STREET (PN 0822-18-22-8471)	84 PARKS (1/250 SF) RETAIL: 13,250 SF 145 PARKS (1/100 SF) 180 PARKS	181 PARKS
TOTAL:	612 PARKS (100%) 621 PARKS (85%)	845 PARKS 89 PARKS (ADDITIONAL NEW SPACES FROM 01100046 SITE PLAN. FOR THIS USE - NOT TO BE CREDITED FOR THIS SITE REQUIREMENT)

NOTES:
1. EXISTING NUMBERS EXCLUDE CITY OF DURHAM LEASED LOT (48 PARKS) ON PARCEL PN 0822-18-21-8042
2. ADDITIONAL NEW SPACES = 16 SPACES EXISTING ARE TO BE REPLACED

TOTAL PARKS = 874 PARKS

THE JOHN R. McADAMS COMPANY, INC.
ENGINEERS • PLANNERS • SURVEYORS • ENVIRONMENTAL RESEARCHERS • TRANSPORTATION • CREATIVE CITY DESIGN

2848 Middleboro Parkway, Durham, NC 27713
800-752-5668 • www.jrmc.com • License No.: C-009

REVISIONS:

1	08-04-11 REV FOR CITY COMMENTS
2	08-30-11 REV FOR CITY COMMENTS

DEVELOPER:
CRESCENT RESOURCES LLC
227 WEST TRADE STREET, SUITE 1000
CHARLOTTE, NC 28202

PROJECT #: CRS-10000
PRELIM #: CRS1000-0A51
DESIGNED BY: RCZ
DRAWN BY: RLU
SCALE: 1"=50'
DATE: 03-03-11
Sheet #: C-2

McADAMS

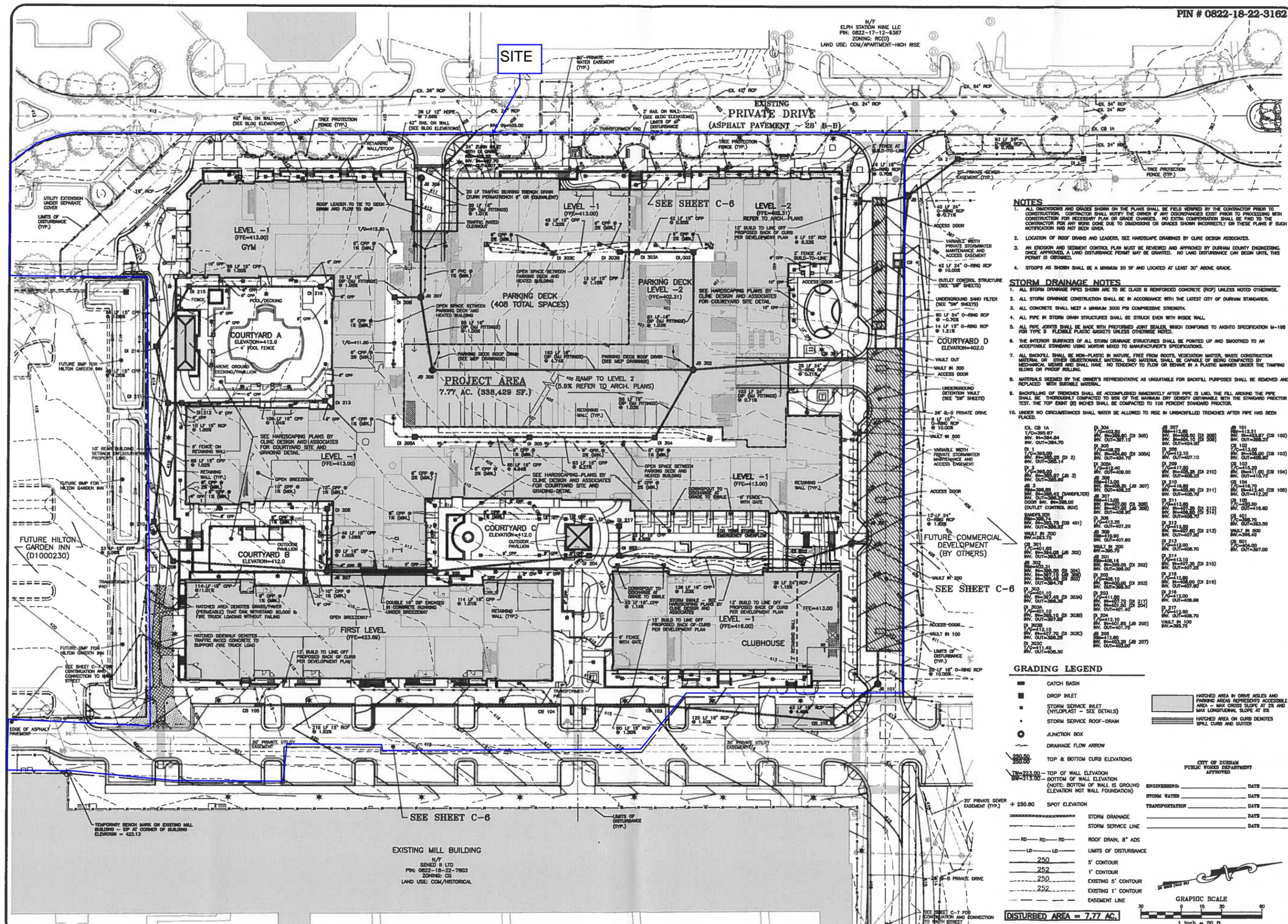
C:\projects\CRS1000-0A51\Site Plan\Appendix\AppendixA\CRS1000-0A51.dwg, 02/20/11 8:17:27 AM, Williams, T

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

N/F
ELPH STATION NINE LLC
PIN: 0822-17-12-4387
ZONING: RC(D)
LAND USE: COM/APARTMENT-HIGH RISE

SITE

EXISTING PRIVATE DRIVE (ASPHALT PAVEMENT - 28' B-B)



NOTES

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. LOCATION OF ROOF DRAINS AND LEADERS, SEE HARDSCAPE DRAWINGS BY CLINE DESIGN ASSOCIATES.
3. AN EROSION AND SEDIMENT CONTROL PLAN MUST BE REVIEWED AND APPROVED BY DURHAM COUNTY ENGINEERING. ONCE APPROVED, A LAND DISTURBANCE PERMIT MAY BE GRANTED. NO LAND DISTURBANCE CAN BEGIN UNTIL THIS PERMIT IS OBTAINED.
4. STORMS AS SHOWN SHALL BE A MINIMUM 20 SF AND LOCATED AT LEAST 30' ABOVE GRADE.

STORM DRAINAGE NOTES

1. ALL STORM DRAINAGE PIPES SHOWN ARE TO BE CLASS II REINFORCED CONCRETE (RCP) UNLESS NOTED OTHERWISE.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF DURHAM STANDARDS.
3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
4. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
5. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO ANSITQ SPECIFICATION M-180 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
6. THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
7. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL, OR OTHER MATERIALS. SAND MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OF PROOF ROLLING.
8. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
9. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EXHIB (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
10. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.

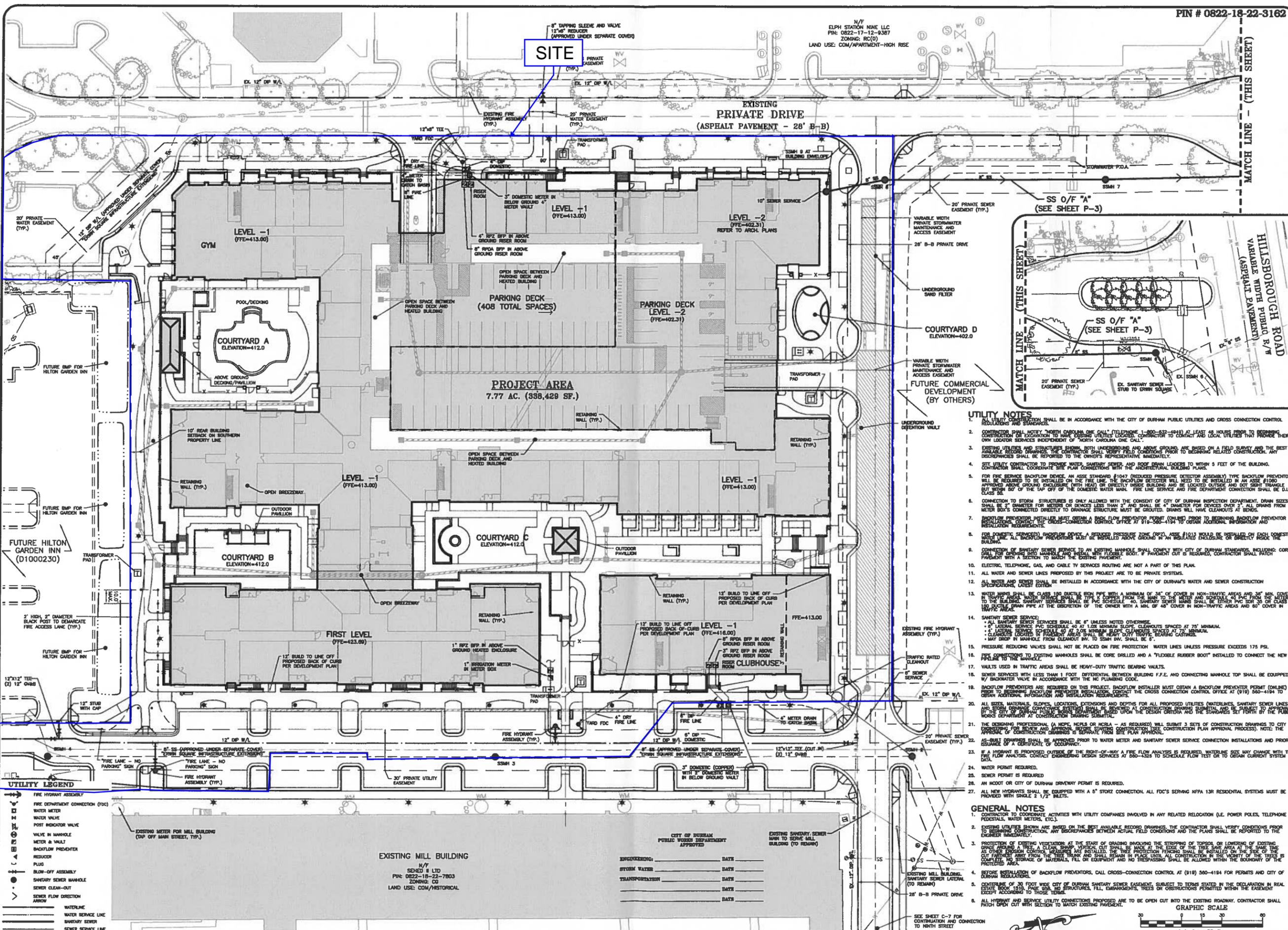
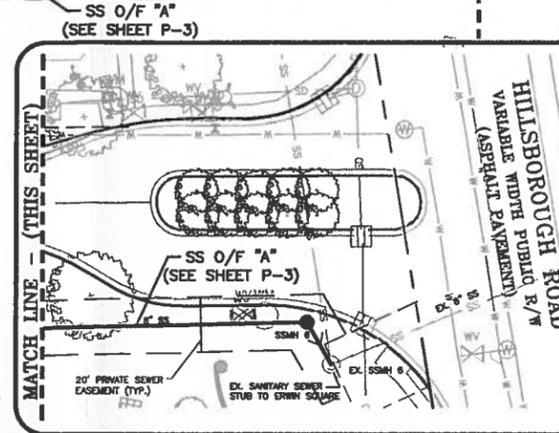
EX. CB 1A	DI 304	DI 207	DI 101
7/2" x 36" RCP	7/2" x 36" RCP (DI 300)	7/2" x 36" RCP (DI 200)	7/2" x 36" RCP (DI 100)
INV. IN=384.84	INV. IN=385.00 (DI 300)	INV. IN=385.10 (DI 200)	INV. IN=385.25 (DI 100)
INV. OUT=384.70	INV. OUT=387.15	INV. OUT=387.15	INV. OUT=387.15
DI 305	DI 306	DI 307	DI 308
7/2" x 36" RCP	7/2" x 36" RCP (DI 305A)	7/2" x 36" RCP (DI 306)	7/2" x 36" RCP (DI 307)
INV. IN=385.10 (DI 2)	INV. IN=385.20 (DI 305A)	INV. IN=385.30 (DI 306)	INV. IN=385.40 (DI 307)
INV. OUT=385.14	INV. OUT=387.10	INV. OUT=387.10	INV. OUT=387.10
DI 309	DI 310	DI 311	DI 312
7/2" x 36" RCP	7/2" x 36" RCP (DI 310)	7/2" x 36" RCP (DI 311)	7/2" x 36" RCP (DI 312)
INV. IN=385.50 (DI 3)	INV. IN=385.60 (DI 310)	INV. IN=385.70 (DI 311)	INV. IN=385.80 (DI 312)
INV. OUT=385.50	INV. OUT=387.25	INV. OUT=387.25	INV. OUT=387.25
DI 313	DI 314	DI 315	DI 316
7/2" x 36" RCP	7/2" x 36" RCP (DI 313)	7/2" x 36" RCP (DI 314)	7/2" x 36" RCP (DI 315)
INV. IN=385.90 (DI 3)	INV. IN=386.00 (DI 313)	INV. IN=386.10 (DI 314)	INV. IN=386.20 (DI 315)
INV. OUT=385.90	INV. OUT=387.30	INV. OUT=387.30	INV. OUT=387.30
DI 317	DI 318	DI 319	DI 320
7/2" x 36" RCP	7/2" x 36" RCP (DI 317)	7/2" x 36" RCP (DI 318)	7/2" x 36" RCP (DI 319)
INV. IN=386.30 (DI 3)	INV. IN=386.40 (DI 317)	INV. IN=386.50 (DI 318)	INV. IN=386.60 (DI 319)
INV. OUT=386.30	INV. OUT=387.35	INV. OUT=387.35	INV. OUT=387.35
DI 321	DI 322	DI 323	DI 324
7/2" x 36" RCP	7/2" x 36" RCP (DI 321)	7/2" x 36" RCP (DI 322)	7/2" x 36" RCP (DI 323)
INV. IN=386.70 (DI 3)	INV. IN=386.80 (DI 321)	INV. IN=386.90 (DI 322)	INV. IN=387.00 (DI 323)
INV. OUT=386.70	INV. OUT=387.40	INV. OUT=387.40	INV. OUT=387.40
DI 325	DI 326	DI 327	DI 328
7/2" x 36" RCP	7/2" x 36" RCP (DI 325)	7/2" x 36" RCP (DI 326)	7/2" x 36" RCP (DI 327)
INV. IN=387.10 (DI 3)	INV. IN=387.20 (DI 325)	INV. IN=387.30 (DI 326)	INV. IN=387.40 (DI 327)
INV. OUT=387.10	INV. OUT=387.45	INV. OUT=387.45	INV. OUT=387.45
DI 329	DI 330	DI 331	DI 332
7/2" x 36" RCP	7/2" x 36" RCP (DI 329)	7/2" x 36" RCP (DI 330)	7/2" x 36" RCP (DI 331)
INV. IN=387.50 (DI 3)	INV. IN=387.60 (DI 329)	INV. IN=387.70 (DI 330)	INV. IN=387.80 (DI 331)
INV. OUT=387.50	INV. OUT=387.50	INV. OUT=387.50	INV. OUT=387.50
DI 333	DI 334	DI 335	DI 336
7/2" x 36" RCP	7/2" x 36" RCP (DI 333)	7/2" x 36" RCP (DI 334)	7/2" x 36" RCP (DI 335)
INV. IN=387.90 (DI 3)	INV. IN=388.00 (DI 333)	INV. IN=388.10 (DI 334)	INV. IN=388.20 (DI 335)
INV. OUT=387.90	INV. OUT=387.55	INV. OUT=387.55	INV. OUT=387.55
DI 337	DI 338	DI 339	DI 340
7/2" x 36" RCP	7/2" x 36" RCP (DI 337)	7/2" x 36" RCP (DI 338)	7/2" x 36" RCP (DI 339)
INV. IN=388.30 (DI 3)	INV. IN=388.40 (DI 337)	INV. IN=388.50 (DI 338)	INV. IN=388.60 (DI 339)
INV. OUT=388.30	INV. OUT=387.60	INV. OUT=387.60	INV. OUT=387.60
DI 341	DI 342	DI 343	DI 344
7/2" x 36" RCP	7/2" x 36" RCP (DI 341)	7/2" x 36" RCP (DI 342)	7/2" x 36" RCP (DI 343)
INV. IN=388.70 (DI 3)	INV. IN=388.80 (DI 341)	INV. IN=388.90 (DI 342)	INV. IN=389.00 (DI 343)
INV. OUT=388.70	INV. OUT=387.65	INV. OUT=387.65	INV. OUT=387.65
DI 345	DI 346	DI 347	DI 348
7/2" x 36" RCP	7/2" x 36" RCP (DI 345)	7/2" x 36" RCP (DI 346)	7/2" x 36" RCP (DI 347)
INV. IN=389.10 (DI 3)	INV. IN=389.20 (DI 345)	INV. IN=389.30 (DI 346)	INV. IN=389.40 (DI 347)
INV. OUT=389.10	INV. OUT=387.70	INV. OUT=387.70	INV. OUT=387.70
DI 349	DI 350	DI 351	DI 352
7/2" x 36" RCP	7/2" x 36" RCP (DI 349)	7/2" x 36" RCP (DI 350)	7/2" x 36" RCP (DI 351)
INV. IN=389.50 (DI 3)	INV. IN=389.60 (DI 349)	INV. IN=389.70 (DI 350)	INV. IN=389.80 (DI 351)
INV. OUT=389.50	INV. OUT=387.75	INV. OUT=387.75	INV. OUT=387.75
DI 353	DI 354	DI 355	DI 356
7/2" x 36" RCP	7/2" x 36" RCP (DI 353)	7/2" x 36" RCP (DI 354)	7/2" x 36" RCP (DI 355)
INV. IN=389.90 (DI 3)	INV. IN=390.00 (DI 353)	INV. IN=390.10 (DI 354)	INV. IN=390.20 (DI 355)
INV. OUT=389.90	INV. OUT=387.80	INV. OUT=387.80	INV. OUT=387.80
DI 357	DI 358	DI 359	DI 360
7/2" x 36" RCP	7/2" x 36" RCP (DI 357)	7/2" x 36" RCP (DI 358)	7/2" x 36" RCP (DI 359)
INV. IN=390.30 (DI 3)	INV. IN=390.40 (DI 357)	INV. IN=390.50 (DI 358)	INV. IN=390.60 (DI 359)
INV. OUT=390.30	INV. OUT=387.85	INV. OUT=387.85	INV. OUT=387.85
DI 361	DI 362	DI 363	DI 364
7/2" x 36" RCP	7/2" x 36" RCP (DI 361)	7/2" x 36" RCP (DI 362)	7/2" x 36" RCP (DI 363)
INV. IN=390.70 (DI 3)	INV. IN=390.80 (DI 361)	INV. IN=390.90 (DI 362)	INV. IN=391.00 (DI 363)
INV. OUT=390.70	INV. OUT=387.90	INV. OUT=387.90	INV. OUT=387.90
DI 365	DI 366	DI 367	DI 368
7/2" x 36" RCP	7/2" x 36" RCP (DI 365)	7/2" x 36" RCP (DI 366)	7/2" x 36" RCP (DI 367)
INV. IN=391.10 (DI 3)	INV. IN=391.20 (DI 365)	INV. IN=391.30 (DI 366)	INV. IN=391.40 (DI 367)
INV. OUT=391.10	INV. OUT=387.95	INV. OUT=387.95	INV. OUT=387.95
DI 369	DI 370	DI 371	DI 372
7/2" x 36" RCP	7/2" x 36" RCP (DI 369)	7/2" x 36" RCP (DI 370)	7/2" x 36" RCP (DI 371)
INV. IN=391.50 (DI 3)	INV. IN=391.60 (DI 369)	INV. IN=391.70 (DI 370)	INV. IN=391.80 (DI 371)
INV. OUT=391.50	INV. OUT=388.00	INV. OUT=388.00	INV. OUT=388.00
DI 373	DI 374	DI 375	DI 376
7/2" x 36" RCP	7/2" x 36" RCP (DI 373)	7/2" x 36" RCP (DI 374)	7/2" x 36" RCP (DI 375)
INV. IN=391.90 (DI 3)	INV. IN=392.00 (DI 373)	INV. IN=392.10 (DI 374)	INV. IN=392.20 (DI 375)
INV. OUT=391.90	INV. OUT=388.05	INV. OUT=388.05	INV. OUT=388.05
DI 377	DI 378	DI 379	DI 380
7/2" x 36" RCP	7/2" x 36" RCP (DI 377)	7/2" x 36" RCP (DI 378)	7/2" x 36" RCP (DI 379)
INV. IN=392.30 (DI 3)	INV. IN=392.40 (DI 377)	INV. IN=392.50 (DI 378)	INV. IN=392.60 (DI 379)
INV. OUT=392.30	INV. OUT=388.10	INV. OUT=388.10	INV. OUT=388.10
DI 381	DI 382	DI 383	DI 384
7/2" x 36" RCP	7/2" x 36" RCP (DI 381)	7/2" x 36" RCP (DI 382)	7/2" x 36" RCP (DI 383)
INV. IN=392.70 (DI 3)	INV. IN=392.80 (DI 381)	INV. IN=392.90 (DI 382)	INV. IN=393.00 (DI 383)
INV. OUT=392.70	INV. OUT=388.15	INV. OUT=388.15	INV. OUT=388.15
DI 385	DI 386	DI 387	DI 388
7/2" x 36" RCP	7/2" x 36" RCP (DI 385)	7/2" x 36" RCP (DI 386)	7/2" x 36" RCP (DI 387)
INV. IN=393.10 (DI 3)	INV. IN=393.20 (DI 385)	INV. IN=393.30 (DI 386)	INV. IN=393.40 (DI 387)
INV. OUT=393.10	INV. OUT=388.20	INV. OUT=388.20	INV. OUT=388.20
DI 389	DI 390	DI 391	DI 392
7/2" x 36" RCP	7/2" x 36" RCP (DI 389)	7/2" x 36" RCP (DI 390)	7/2" x 36" RCP (DI 391)
INV. IN=393.50 (DI 3)	INV. IN=393.60 (DI 389)	INV. IN=393.70 (DI 390)	INV. IN=393.80 (DI 391)
INV. OUT=393.50	INV. OUT=388.25	INV. OUT=388.25	INV. OUT=388.25
DI 393	DI 394	DI 395	DI 396
7/2" x 36" RCP	7/2" x 36" RCP (DI 393)	7/2" x 36" RCP (DI 394)	7/2" x 36" RCP (DI 395)
INV. IN=393.90 (DI 3)	INV. IN=394.00 (DI 393)	INV. IN=394.10 (DI 394)	INV. IN=394.20 (DI 395)
INV. OUT=393.90	INV. OUT=388.30	INV. OUT=388.30	INV. OUT=388.30
DI 397	DI 398	DI 399	DI 400
7/2" x 36" RCP	7/2" x 36" RCP (DI 397)	7/2" x 36" RCP (DI 398)	7/2" x 36" RCP (DI 399)
INV. IN=394.30 (DI 3)	INV. IN=394.40 (DI 397)	INV. IN=394.50 (DI 398)	INV. IN=394.60 (DI 399)
INV. OUT=394.30	INV. OUT=388.35	INV. OUT=388.35	INV. OUT=388.35
DI 401	DI 402	DI 403	DI 404
7/2" x 36" RCP	7/2" x 36" RCP (DI 401)	7/2" x 36" RCP (DI 402)	7/2" x 36" RCP (DI 403)
INV. IN=394.70 (DI 3)	INV. IN=394.80 (DI 401)	INV. IN=394.90 (DI 402)	INV. IN=395.00 (DI 403)
INV. OUT=394.70	INV. OUT=388.40	INV. OUT=388.40	INV. OUT=388.40
DI 405	DI 406	DI 407	DI 408
7/2" x 36" RCP	7/2" x 36" RCP (DI 405)	7/2" x 36" RCP (DI 406)	7/2" x 36" RCP (DI 407)
INV. IN=395.10 (DI 3)	INV. IN=395.20 (DI 405)	INV. IN=395.30 (DI 406)	INV. IN=395.40 (DI 407)
INV. OUT=395.10	INV. OUT=388.45	INV. OUT=388.45	INV. OUT=388.45
DI 409	DI 410	DI 411	DI 412
7/2" x 36" RCP	7/2" x 36" RCP (DI 409)	7/2" x 36" RCP (DI 410)	7/2" x 36" RCP (DI 411)
INV. IN=395.50 (DI 3)	INV. IN=395.60 (DI 409)	INV. IN=395.70 (DI 410)	INV. IN=395.80 (DI 411)
INV. OUT=395.50	INV. OUT=388.50	INV. OUT=388.50	INV. OUT=388.50
DI 413	DI 414	DI 415	DI 416
7/2" x 36" RCP	7/2" x 36" RCP (DI 413)	7/2" x 36" RCP (DI 414)	7/2" x 36" RCP (DI 415)
INV. IN=395.90 (DI 3)	INV. IN=396.00 (DI 413)	INV. IN=396.10 (DI 414)	INV. IN=396.20 (DI 415)
INV. OUT=395.90	INV. OUT=388.55	INV. OUT=388.55	INV. OUT=388.55
DI 417	DI 418	DI 419	DI 420
7/2" x 36" RCP	7/2" x 36" RCP (DI 417)	7/2" x 36" RCP (DI 418)	7/2" x 36" RCP (DI 419)
INV. IN=396.30 (DI 3)	INV. IN=396.40 (DI 417)	INV. IN=396.50 (DI 418)	INV. IN=396.60 (DI 419)
INV. OUT=396.30	INV. OUT=388.60	INV. OUT=388.60	INV. OUT=388.60
DI 421	DI 422	DI 423	DI 424
7/2" x 36" RCP	7/2" x 36" RCP (DI 421)	7/2" x 36" RCP (DI 422)	7/2" x 36" RCP (DI 423)
INV. IN=396.70 (DI 3)	INV. IN=396.80 (DI 421)	INV. IN=396.90 (DI 422)	INV. IN=397.00 (DI 423)
INV. OUT=396.70	INV. OUT=388.65	INV. OUT=388.65	INV. OUT=388.65
DI 425	DI 426	DI 427	DI 428
7/2" x 36" RCP	7/2" x 36" RCP (DI 425)	7/2" x 36" RCP (DI 426)	7/2" x 36" RCP (DI 427)
INV. IN=397.10 (DI 3)	INV. IN=397.20 (DI 425)	INV. IN=397.30 (DI 426)	INV. IN=397.40 (DI 427)
INV. OUT=397.10	INV. OUT=388.70	INV. OUT=388.70	INV. OUT=388.70
DI 429	DI 430	DI 431	DI 432
7/2" x 36" RCP	7/2" x 36" RCP (DI 429)	7/2" x 36" RCP (DI 430)	7/2" x 36" RCP (DI 431)
INV. IN=397.50 (DI 3)	INV. IN=397.60 (DI 429)	INV. IN=397.70 (DI 430)	INV. IN=397.80 (DI 431)
INV. OUT=397.50	INV. OUT=388.75	INV. OUT=388.75	INV. OUT=388.75
DI 433	DI 434	DI 435	DI 436
7/2" x 36" RCP	7/2" x 36" RCP (DI 433)	7/2" x 36" RCP (DI 434)	7/2" x 36" RCP (DI 435)
INV. IN=397.90 (DI 3)	INV. IN=398.00 (DI 433)	INV. IN=398.10 (DI 434)	INV. IN=398.20 (DI 435)
INV. OUT=397.90	INV. OUT=388.80	INV. OUT=388.80	INV. OUT=388.80
DI 437	DI 438	DI 439	DI 440
7/2" x 36" RCP	7/2" x 36" RCP (DI 437)	7/2" x 36" RCP (DI 438)	7/2" x 36" RCP (DI 439)
INV. IN=398.30 (DI 3)	INV. IN=398.40 (DI 437)	INV. IN=398.50 (DI 438)	INV. IN=398.60 (DI 439)
INV. OUT=398.30	INV. OUT=388.85	INV. OUT=388.85	INV. OUT=388.85
DI 441	DI 442	DI 443	DI 444
7/2" x 36" RCP	7/2" x 36" RCP (DI 441)	7/2" x 36" RCP (DI 442)	7/2" x 36" RCP (DI 443)
INV. IN=398.70 (DI 3)	INV. IN=398.80 (DI 441)	INV. IN=398.90 (DI 442)	INV. IN=399.00 (DI 443)
INV. OUT=398.70	INV. OUT=388.90	INV. OUT=388.90	INV. OUT=388.90

N/F
ELPH STATION NINE LLC
PIN: 0822-17-12-0387
ZONING: RC(D)
LAND USE: COM/APARTMENT-HIGH RISE

SITE

EXISTING PRIVATE DRIVE
(ASPHALT PAVEMENT - 28' B-B)

MATCH LINE - (THIS SHEET)



- UTILITY NOTES**
1. ALL UTILITY CONNECTIONS SHALL BE IN ACCORDANCE WITH THE CITY OF DURHAM PUBLIC UTILITIES AND CROSS CONNECTION CONTROL REGULATIONS AND STANDARDS.
 2. CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" TELEPHONE 1-800-637-6948 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION TO LOCATE ALL UTILITIES. CONTRACTOR TO CONTACT AND LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
 3. EXISTING UTILITIES AND STRUCTURES SHOWN BOTH UNDERGROUND AND ABOVE GROUND ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
 4. SITE UTILITY CONTRACTOR TO PROVIDE WATER, SANITARY SEWER, AND ROOF DRAIN LEADERS TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
 5. FOR FIRE SERVICE BACKFLOW DEVICE, AN ASSE STANDARD #1047 (REDUCED PRESSURE DETECTOR ASSEMBLY) TYPE BACKFLOW PREVENTOR WILL BE REQUIRED TO BE INSTALLED ON THE FIRE LINE. THE BACKFLOW DETECTOR WILL NEED TO BE INSTALLED IN AN ASSE #1000 APPROVED ABOVE GROUND ENCLOSURE (WITH HEAT) OR DIRECTLY INSIDE BUILDING AND BE LOCATED OUTSIDE AND NOT SHUT TRIANGLE BUT WITHIN 50' OF THE TAP-OFF OF THE DOMESTIC WATER MAIN. FIRE LINE SERVICE AND FIRE DEPARTMENT CONNECTION SHALL BE S.L.P. CLASS 3A.
 6. CONNECTION TO STORM STRUCTURES IS ONLY ALLOWED WITH THE CONSENT OF CITY OF DURHAM INSPECTION DEPARTMENT. DRAIN SIZES SHALL BE 2" DRAINER FOR DEVICES OR LESS THAN 4" DRAINER FOR DEVICES OVER 4" DRAINER FROM DEVICES. DRAINS WILL HAVE CLEANOUTS AT DEVICES.
 7. BACKFLOW PREVENTOR INSTALLER MUST OBTAIN A BACKFLOW PREVENTOR PERMIT (OBTAIN PRIOR TO BEGINNING BACKFLOW PREVENTOR INSTALLATION REQUIREMENTS).
 8. FOR DOMESTIC SERVICES, BACKFLOW DEVICE A REDUCED PRESSURE ZONE (RPZ) ASSE #1013 SHALL BE INSTALLED ON EACH DOMESTIC SERVICE. ALL BACKFLOW PREVENTORS MUST BE INSTALLED ABOVE GROUND IN AN ISOLATED ENCLOSURE OR DIRECTLY INSIDE THE BUILDING.
 9. CONNECTION OF SANITARY SEWER SERVICE TO AN EXISTING MANHOLE SHALL COMPLY WITH CITY OF DURHAM STANDARDS, INCLUDING CORE PAVEMENT WITH A SECTION TO MATCH THE EXISTING PAVEMENT.
 10. ELECTRIC, TELEPHONE, GAS, AND CABLE TV SERVICES ROUTING ARE NOT A PART OF THIS PLAN.
 11. ALL WATER AND SEWER LINES PROPOSED BY THIS PROJECT ARE TO BE PRIVATE SYSTEMS.
 12. ALL WATER AND SEWER SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF DURHAM'S WATER AND SEWER CONSTRUCTION REGULATIONS.
 13. WATER MAINS SHALL BE 150 DUCTILE IRON PIPE WITH A MINIMUM OF 34" OF COVER IN NON-TRAFFIC AREAS AND 36" MIN. COVER IN TRAFFIC AREAS. WATER SERVICE LINES SHALL BE 1" COPPER FROM THE MAIN TO THE METER AND SCHEDULE 40 PIPE FROM THE METER TO THE BUILDING. WATER SERVICE LINES SHALL BE 1" COPPER FROM THE MAIN TO THE METER AND SCHEDULE 40 PIPE FROM THE METER TO THE BUILDING. WATER SERVICE LINES SHALL BE 1" COPPER FROM THE MAIN TO THE METER AND SCHEDULE 40 PIPE FROM THE METER TO THE BUILDING. WATER SERVICE LINES SHALL BE 1" COPPER FROM THE MAIN TO THE METER AND SCHEDULE 40 PIPE FROM THE METER TO THE BUILDING.
 14. SANITARY SEWER SERVICE:
 - 4" SANITARY SEWER SERVICES SHALL BE 4" UNLESS NOTED OTHERWISE.
 - 6" LATERAL SERVICE PVC SCHEDULE 40 AT 1.0% MINIMUM SLOPE. CLEANOUTS SPACED AT 75' MINIMUM.
 - CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
 - MAY BE LOCATED IN MANHOLE OR IN TRAFFIC AREAS.
 15. PRESSURE REDUCING VALVES SHALL NOT BE PLACED ON FIRE PROTECTION WATER LINES UNLESS PRESSURE EXCEEDS 175 PSI.
 16. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED AND A "FLEXIBLE RUBBER BOOT" INSTALLED TO CONNECT THE NEW PIPELINE TO THE MANHOLE.
 17. VAULTS USED IN TRAFFIC AREAS SHALL BE HEAVY-DUTY TRAFFIC BEARING VAULTS.
 18. SEWER SERVICES WITH LESS THAN 1 FOOT DIFFERENTIAL BETWEEN BUILDING F.F.E. AND CONNECTING MANHOLE TOP SHALL BE EQUIPPED W/ BACKFLOWER VALVE IN ACCORDANCE WITH THE NC PLUMBING CODE.
 19. BACKFLOW PREVENTORS ARE REQUIRED ON THIS PROJECT. BACKFLOW PREVENTOR INSTALLER MUST OBTAIN A BACKFLOW PREVENTOR PERMIT (OBTAIN PRIOR TO BEGINNING BACKFLOW PREVENTOR INSTALLATION). CONTACT THE CROSS CONNECTION CONTROL OFFICE AT (919) 560-4194 TO OBTAIN ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.
 20. ALL SEWER, MATERIALS, SLOPES, LOCATIONS, EXTENSIONS AND DEPTHS FOR ALL PROPOSED UTILITIES (WATERLINES, SANITARY SEWER LINES AND STORM DRAINAGE) SHALL BE REVIEWED AT CONSTRUCTION DRAWING SUBMITTAL AND BE SUBJECT TO APPROVAL BY THE PUBLIC WORKS DEPARTMENT AT CONSTRUCTION DRAWING SUBMITTAL.
 21. THE DESIGNING PROFESSIONAL (A NCE, NCEM OR NCELA - AS REQUIRED) WILL SUBMIT 3 SETS OF CONSTRUCTION DRAWINGS TO CITY OF DURHAM FOR REVIEW AND APPROVAL. THE DESIGNING PROFESSIONAL SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF DURHAM PUBLIC UTILITIES DEPARTMENT BASED UPON THE DESIGN CRITERIA AND THE STANDARDS SET FORTH BY THE PUBLIC WORKS DEPARTMENT AT CONSTRUCTION DRAWING SUBMITTAL.
 22. AS-BUILT DRAWINGS SHALL BE PROVIDED PRIOR TO WATER METER AND SANITARY SEWER SERVICE CONNECTION INSTALLATIONS AND PRIOR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 23. FIRE FLOW ANALYSIS SHALL BE REQUIRED FOR THE RIGHT-OF-WAY FIRE FLOW ANALYSIS IS REQUIRED. WATERLINE SIZE MAY CHANGE WITH THE CITY OF DURHAM PUBLIC UTILITIES DEPARTMENT BASED UPON THE DESIGN CRITERIA AND THE STANDARDS SET FORTH BY THE PUBLIC WORKS DEPARTMENT AT CONSTRUCTION DRAWING SUBMITTAL.
 24. WATER PERMIT REQUIRED.
 25. SEWER PERMIT IS REQUIRED.
 26. AN HCOOT OR CITY OF DURHAM DRIVEWAY PERMIT IS REQUIRED.
 27. ALL NEW EXISTING SHALL BE PROVIDED WITH A 5" STORAGE CONNECTION. ALL FDC'S SERVING NFPA 13R RESIDENTIAL SYSTEMS MUST BE PROVIDED WITH SINGLE 2 1/2" INLET.

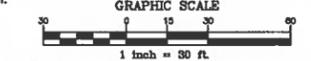
- UTILITY LEGEND**
- FIRE HYDRANT ASSEMBLY
 - FIRE DEPARTMENT CONNECTION (FDC)
 - WATER METER
 - WATER VALVE
 - POST INDICATOR VALVE
 - VALVE IN MANHOLE
 - METER & VAULT
 - BACKFLOW PREVENTOR
 - REDUCER
 - PLUG
 - BLOW-OFF ASSEMBLY
 - SANITARY SEWER MANHOLE
 - SEWER CLEAN-OUT
 - SEWER FLOW DIRECTION
 - SEWER FLOW DIRECTION ARROW
 - WATERLINE
 - WATER SERVICE LINE
 - SANITARY SEWER
 - SEWER SERVICE LINE
 - EASEMENT LINE

EXISTING METER FOR MILL BUILDING (TAP OFF MAIN STREET, TYP.)

EXISTING MILL BUILDING
N/F
SCHED 8 LTD
PIN: 0822-18-22-7803
ZONING: CO
LAND USE: COM/HISTORICAL

ENGINEERING	DATE
SYSTEM WATER	DATE
TRANSFORMATION	DATE
DATE	DATE

SEE SHEET C-7 FOR CONTINUATION AND CONNECTION TO NINTH STREET



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

THE JOHN R. McADAMS COMPANY, INC.
ENGINEERS • PLANNERS • SURVEYORS • ENVIRONMENTAL
RESEARCH TRIANGLE PARK • CHARLOTTE
2000 Meridian Parkway, Durham, NC 27713
919-703-6646 • www.johnr-mcadams.com • License No. C-0283



REVISIONS:

DEVELOPER:
CRESCENT RESOURCES LLC
227 WEST TRADE STREET, SUITE 1000
CLEARLOTTE, NC 28022

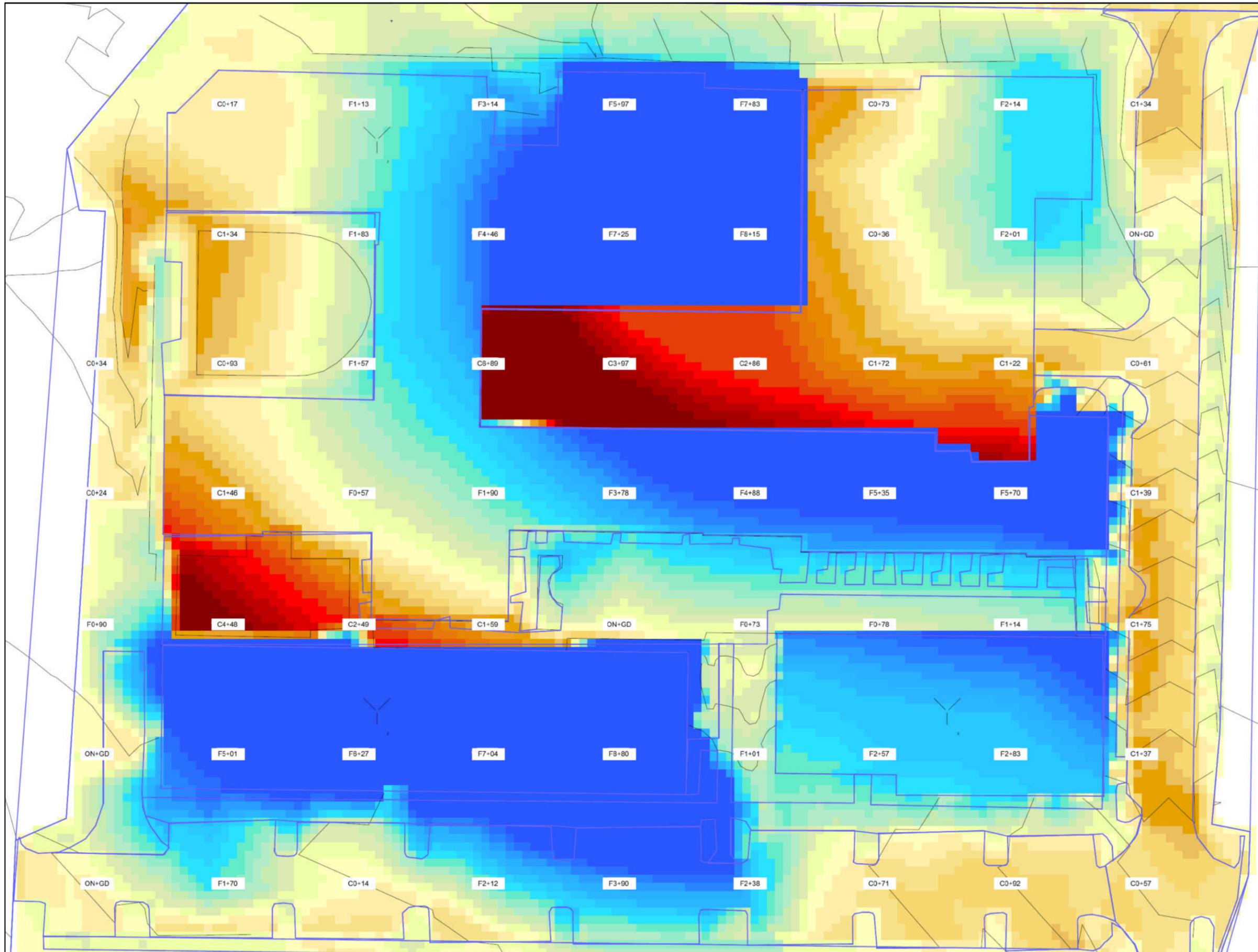
circle at NINTH STREET
PREVIOUSLY "SQUARE SQUARE MULTI-FAMILY"
CONSTRUCTION PLANS
DURHAM, NORTH CAROLINA
UTILITY PLAN

PROJECT NO. CRS-10000
REFERENCE: CRS1000-U1
DESIGNED BY: RCA
DRAWN BY: SRW
SCALE: 1"=30'
DATE: 10-24-11
SHEET NO. C-8
McADAMS

CIRCLE NINTH STREET

CUT-TO-FILL MAP

12.02.11



APPENDIX II

Certification of Site Personnel

APPENDIX III

Amendments to Brownfields Soil Management Plan

