CITY OF ATLANTA

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Mayor

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DEPARTMENT OF PROCUREMENT
Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP, CIPC, CISCC, CIGPM
Chief Procurement Officer
asmith@atlantaga.gov

September 16, 2015

Dear Potential Bidders:

Re: FC-7902 Peachtree Creek Trunk Stabilization Project

Attached is one (1) copy of **Addendum Number 1,** which is hereby made a part of the above-referenced project.

For additional information, please contact Katherine Vernet, Esq., at (404) 330-6517 or by email at kvernet@atlantaga.gov.

Sincerely,

Adam L. Smith, CPPO, CPPB, CPPM, CPP, CIPC, CISCC, CIGPM

Adam L. Smith

ALS/kv

ADDENDUM NO. 1

This Addendum No. 1 forms a part of the Invitation to Bid and modifies the original solicitation package as noted below and is issued to incorporate the following:

- **Questions and Answers:**
  A total of seventy-two (72) questions are attached hereto as Attachment No. 1.
- **Revised Specifications:**
  Revision of Exhibit E, Scope of Services Section 02750, Wastewater Flow Control and Section 02546, Grouted PVC Profile Sewer Pipe Liner System are attached hereto as Attachment No. 2.
- **Drawings:**
  An electronic copy of the drawings originally included in the solicitation is being made available on the City's website for potential bidders' ease of printing and for clarity. These drawings are identical to those included in the solicitation posted on **August 20, 2015** and are attached hereto as Attachment No. 3.
- **Bid Due Date:**
  The bid due date **has been modified** to **Wednesday, September 30, 2015**. Sealed Bids for project **FC-7902 Peachtree Creek Trunk Stabilization Project** will be received by designated staff of the Department of Procurement, Suite 1900, City Hall South, 55 Trinity Avenue, S.W., Atlanta, Georgia 30303, **no later than 2:00 P.M., EDT**, (as verified by the Bureau of National Standards), on **Wednesday, September 30, 2015**.

The Bid due date HAS been modified and Bids are due on Wednesday, September 30, 2015 and should be time stamped in no later than 2:00 P.M. EDT and delivered to the address listed below:

Adam L. Smith, Esq., CPPO, CPPB, CPPM, CPP, CIPC, CISCC, CIGPM
Chief Procurement Officer
Department of Procurement
55 Trinity Avenue, S. W.
City Hall South, Suite 1900
Atlanta, Georgia 30303

****All other pertinent information is to remain unchanged****

Acknowledgment of Addendum No. 1

Bidders must sign below and return this form with Bid response to the Department of Procurement.

Bidders must sign below and return this form with Bid to the Department of Procurement, 55 Trinity Avenue, City Hall South, Suite 1900, Atlanta, Georgia 30303 as acknowledgment of receipt of this Addendum.

This is to acknowledge receipt of **FC-7902 Peachtree Creek Trunk Stabilization Project** on this _____ day of _____, 20___.

_____
Legal Company Name of Bidder

_____
Signature of Authorized Representative

_____
Printed Name

_____
Title

_____
Date

Attachment No. 1

Questions and Answers

FC-7902 - Peachtree Creek Trunk Stabilization Project

Questions/Answers

1. The allowed contract time is very short to complete this work. Will the city consider extending the contract time for this project?

   Answer: No.

2. To attempt to complete this work within the contract time, the contractor will have to work in multiple locations. Will the City allow the contractor to work in multiple phases at once?

   Answer: Yes, the City will consider a phased approach in order to facilitate completion of the scope of work of this project. The approach shall be determined by the Contractor and approved by the City.

3. GC-7 of the contract documents requires the contractor to obtain and pay for all permits. What permits does the City anticipate the contractor will need and what are the costs for each of those permits?

   Answer: It will be the Contractor's responsibility to determine necessary permits to obtain and remit payment for applicable fees accordingly.

4. The City typically requires uniformed officers for road closures. Will that be the case for this project as well?

   Answer: The requirement for uniformed officers will be specified in accordance with traffic permits obtained.

5. The contract documents state that the contractor is responsible for all costs/fines associated with spills and overflows that are even partially due to the contractors work. Since this line already surcharges, how will the City determine if the contractor contributed to the overflow?

Answer: Should a sewer overflow occur during the course of the work, the incident will investigated by DWM accordingly based on the Department's Emergency Response Plan to determine the cause and responsibility of the spill.

6. The contract documents require the contractor to obtain Right-of-Entry to public and private property. This could be quite extensive and costly. Will the contractor be reimbursed for these costs through the Land Acquisition allowance?
   Answer: Reference Specification 01200 Measurement and Payment, Section 2.01 General Conditions, Paragraph A – Mobilization/Project Management/Demobilization.

7. If the contractor is not able to negotiate a ROE with a property owner, will the contractor be allowed to use the prescriptive easement for the pipeline?
   Answer: Reference Specification 01351 Public Involvement, Section 3.15 Rights of Entry and Access to Private Property, Paragraph F.

8. The contract documents require Skire Unifire to be used on this project. What will the costs be for the software and the training?

   Answer: Reference Specification 01310 Scheduling of Work, Section 1.02 General Scheduling Requirements, Paragraph A and Specification 01350 Project Document Tracking and Control System (DTCS), Section 1.01, Paragraph G.

9. The contract documents require a Cost-loaded CPM schedule before any pay request can be submitted? This process has significantly delayed payments in the past and with the timeframe and value of this project, that could be an issue. Will the City consider eliminating this requirement
   Answer: No.

10. On a recent project with the City there were numerous issues with using Skire/Unifire. Due to these issues, which delayed payments, we request that this program not be used on this project.
    Answer: The City declines this request.

11. Is the contractor required to have a field office? If so, is there an area designated for the contractor to use?

    Answer: Reference Specification 01500 Temporary Facilities and Construction Operations.

12. Will the contractor be responsible for producing tree removal plans and obtaining/paying for tree removal permits? This is a very long process in the City of Atlanta and could impact the completion of the project within the contract time.

    Answer: Reference Specification 02112 Route Clearing, Part 3 – Execution, Section 3.06 – Tree Removal on Easements.

13. Section 02546 requires a 3D laser survey to be performed prior to lining. Should that cost be included in the lining unit price?

    Answer: Yes, any work associated with the liner installation should be included in the Contractor's proposed liner unit price.

14. Will the City require a Post-Cleaning Sonar Survey to verify for payment? If so, where should that cost be included?

    Answer: Yes. Any work associated with the liner installation should be included in the Contractor's proposed liner unit price.

15. The contract documents show easement areas to be cleared. Is it the City's intent to clear the whole easement or just what the contractor needs to perform the work?

    Answer: The Contractor is recommended to clear what is needed along the City's sewer easement to facilitate completion of the work.

16. Section 02546 1.03 C 1 & 2, requires the superintendent and lining crew to have the lining qualifications in the last three years. We request that this qualification be changed to the past five years.

Answer: The City will allow experience within the past seven (7) years. Referenced revised Specification 02546 Grouted PVC Profile Sewer Pipe Liner System.

17. Could you please answer a question we have regarding the above project. We need to know if they will allow the product SPRPE to be used.

    Answer: The SPR PE product is not approved for use on this project.

18. Due to the detailed information provided in the bid specifications, prebid conference and site visit, could the deadline for questions be extended until Friday September 4?
    Answer: No.

19. 2. In Section 02546, 1.02 Submittals and 1.03 Quality Assurance – Are the bidders required to submit the manufacturer's product data, installation instructions, certificate, manufacturer's experience (1.03 B) in addition to the other submittals outlined in these sections with their bid or as part of their contract documents prior to Award?

    Answer: Respective product submittals will be required post-award as part of the required technical submittals.

20. In Section 02566, 1.03 – Contractor's Experience – All of the interested bidders have varying degrees of grouted PVC profile lining experience however based on the current specifications none of the bidders will meet all of the qualifications. Could a minimum diameter range be changed to 66-inch sewer main or larger grouted PVC profile lining instead of 84-inch with the minimum 2,000 linear feet requirement? Also could the installations have been completed within the last 7 years instead of 3 years?

    Answer: The City will allow Contractor to have installed a minimum of 2,000 linear feet of 66-inch sewer main or larger within the past seven (7) years. Referenced revised Specification 02546 Grouted PVC Profile Sewer Pipe Liner System.

21. On the set of plans, some pages are more readable than others. For an example some of the parcel numbers are unclear and unreadable. This is a concern for everyone seeking additional details and a better understanding of the project. Could a clearer copy of the plans be provided?

Answer: Yes. Reference attached set of drawings.

22. See ITB Page 3-4 #6. Execution of Biding Documents Paragraph e. states "If the Bidder is a joint venture, each party to the joint venture shall execute the Bidding Documents in the manner set forth in a,b,c, or d of this article of the Instructions to Bidders as appropriate for this type of organization. If the Bidder is a Joint Venture, all other documents in the Bidding Documents shall be executed by one of the parties to the joint venture as provided by Article 4 of the Joint Venture Statement, in the same manner as the executed said Joint Venture Statement. This project is over the $5 Million Dollar threshold and requires a Joint Venture Agreement. Please clarify which documents will be required by the Joint Venture and which documents will be required by the parties to a Joint Venture. The Joint Venture is one single entity entering into an agreement to build this work.

a) Bid Schedule – Joint Venture or Individual Parties?
Answer: Joint Venture

b) Bid Garauntee – Joint Venture or Individual Parties?
Answer: Joint Venture

c) Statement of Bidders Qualifications – Joint Venture or Individual Parties?
Answer: Joint Venture

d) Affidavits – Joint Venture or Individual Parties?
Answer: Individual Parties

e) Equal Business Opportunity Program- Joint Venture or Individual Parties?
Answer: All Joint Venture (JV) teams must consist of at least one City of Atlanta certified minority and/or female business enterprise (M/FBE). Additionally, each team must submit a JV agreement that meets the minimum requirements set forth on pages six and seven in Appendix A of the solicitation document. The JV agreement must be signed by key personnel of each team member.

f) Authorization to Transact Business – Joint Venture or Individual Parties?

Answer: Individual Parties

g) First Source Jobs Policy Employment Agreement – Joint Venture or Individual Parties?

Answer: The Joint Venture team and all of its subcontractors must adhere to the First Source Jobs Agreement. Specific guidelines are included on pages twelve and thirteen (12 & 13) of Appendix A in the solicitation document.

h) Bid Form: Bid Schedule: Bid Data: Checklist- Joint Venture or Individual Parties?

Answer: Joint Venture

23. See General Conditions GC-7 Permits and Regulations. See Also SC-2 Right of Way and Construction Access. See also plan sheets 2319_03_c thru 2328_01_B. See also 01351-3.15 In the plans and specifications there are large pieces of Trunk line that have no easement shown and contractor is responsible for performing the cleaning and installing liner.

a) Is the Contractor responsible for obtaining their own temporary easements for access?

Answer: Reference Specification 01351 Public Involvement, Section 3.15 Rights of Entry and Access to Private Property, Paragraph F.

b) Can work on the easement acquisition begin before the Contract Time begins?

Answer: No.

c) Obtaining Property Owner agreement for access can be a time consuming process that can significantly impact the construction schedule. Will additional time be allowed in the contract due to delays beyond "normal"? What amount of time does the City consider "normal" in obtaining easements?

Answer: Reference Specification 01351 Public Involvement, Section 3.15 Rights of Entry and Access to Private Property, Paragraph E.

d) Does the City have authorized easement acquisition specialists that can be consulted? It appears that this is the Contractor's responsibility, but there is an Allowance for Land Acquisition Services. Please clarify.

Answer: Yes, the City has Land Acquisition and Easement professionals on staff that can be consulted, if necessary. Reference Specification 01200 – Measurement and Payment, Section 2.03 Allowances regarding the allowance item relating additional Land Acquisition Services.

24. See Special Conditions SC-9 Work in Flood Plain Areas and 01200-2.02.B

    Sitework – General-Site Access Are there Flood Plain encroachment agreements with the Corps of Engineers?

    In Specification 02125-1.03 it states the Contractor will submit for a Blanket Land Disturbance Permit (via the Site Development Department of the City of Atlanta's Department of Public Works)

    Will the Contractor be able to clear where needed and encroach on Peachtree Creek within stream buffers in order to install bypass pumps, lines, and other equipment in order to perform the scope of work required?

    Answer: The Contractor will be required to comply with the City's Zoning Ordinance and Fulton County's Resolution for work within the floodplain. The Contractor is recommended to clear what is needed along the City's sewer easement to facilitate completion of the work.

25. See SC-22 Partnering Statement – There is no way for the Contractor to know what partnering facilitator and off-site facilities for partnering sessions will be chosen. Can the Owner set up an allowance item to pay for this item?

    Answer: Should a partnering session be deemed necessary for this project, the City will determine the appropriate allowance item to accommodate payment post-award.

26. See Traffic Regulations Section 01550 In paragraph 3.05 Uniformed Police Officer for Traffic Control, who determines when a Uniformed Police Officer is required for traffic control?

    Answer: Reference answer for Question No. 4.

27. See Specification 02491-10 See Part 2B – Manhole Lining Systems. It does not appear that there is a bid item for this work. There is a Manhole Inspection bid item. Will

existing manholes be epoxy, fiberglass, or cementitious coated? Is this work incidental to the relining of the sewer?

Answer: Specification 02491 Rehabilitation of Sanitary Sewer Manholes was provided as a supplemental technical reference document (only). No manhole rehabilitation is proposed under the scope of work of this project.

28. See GC-6 City of Atlanta Ordinance See Also Spec 02112 Route Clearing. In paragraph 3.06F states "Contractor must acquire any necessary permits prior to commencement of any type of work done in the easement especially for the removal of trees and crossing of waterways" Are trees located in the permanent easement, subject to the City of Atlanta Tree Ordinance and require diameter-inch by diameter-inch replacement?
    Are trees located in the temporary easement subject to replacement by the City of Atlanta tree ordinance?
    Can an allowance be setup for the cost of tree replacement or any recompense to comply with the City of Atlanta tree ordinance?
    Answer: Yes, trees located in both the permanent and temporary construction easements are subject to the requirements of the City's tree ordinance. Necessary tree removal and replacement is accounted for under bid item 6-T-1015 Tree Restoration, while any additional and/or specialty tree and arborist related work will be compensated under allowance item 9-Z-2460 Tree Removal/Replacement and Arborist Support to be approved by the City.

29. Section 02752 – Can a portable hard drive be used for inspection data (cctv/sonar) as a substitute for CD-ROM?
    Answer: Yes, a portable hard-drive will be allowed for data storage in lieu of CD-ROM.

30. 1100 -3 4.0-B specifies cleaning of all segments. Will this also include the cctv/sonar inspection of all segments (specifically segments previously rehabilitated) to be certain debris is not present in these areas?

Answer: The cleaning of segments previously rehabilitated is not proposed under the scope of work of this project. However, a determination can be made based on field conditions once work commences and will be approved by the City.

31. Will sonar verification only be acceptable for post cleaning verification of Woodward Way siphon?

    Answer: CCTV without sonar will be required for verification of the cleaning of the siphon.

32. Under Section 02750 Waste Water Flow controls: Part 1, Section 2.02 System Description, A. "Bypass pumping systems shall have sufficient capacity to pump peak flow in the pipes that are being rehabilitated or repaired. The contractor shall provide all pipeline plugs, pumps of adequate size to handle wet weather peak flows, and temporary discharge piping to ensure that the total flow of the main can be safely diverted around the section to be repaired. Bypass pumping system will be required to be operated 24 hours a day." Will this specification for the bypass to be sized for peak wet weather flows be enforced by the City during the rehabilitation of the 90"x90", and the 96" Sewer lines with the Grouted PVC Liner?

    Answer: Yes, the requirements prescribed under Section 02750 Wastewater Flow Control will be enforced for this project.

33. If so, due to the capacity and scale of the bypass what peak wet weather flow in MGD (Million Gallons Per Day) will the City of Atlanta require the bypass pumping system to be sized for on the 90x90, and 96" sewer lines?
    Answer: The City's historical data indicates an average peak wet weather flow of 99 MGD for the large diameter sewer.

34. Utilizing the Manning formula and factoring a full pipe of flow on the 96" sewer at a .1% grade in RCP pipe the flow can reach up to 186.464 MGD. Would 186.464 MGD be an accurate flow design for the bypass pumping system?

Answer: Reference answer for Question No. 33 and Section 02750 Wastewater Flow Control.

35. To convey a flow of 180+ MGD approximately 20+ large pumps will be utilized and 14+ runs of HDPE discharge pipes will be required. Will there be any restrictions on access for piping and pumps, or street trenching for the bypass piping on the bypass route to accommodate the bypass?

    Answer: Reference answer for Question No. 34 and Section 02750 Wastewater Flow Control.

36. What is the overall duration for this project?

    Answer: 18 months.

37. Please provide any sewage flow data available for the scope of the project.

    Answer: Additional flow data can be provided upon request post-award.

38. Will the full length of Peachtree Creek, as it parallels the sewer, be available as route for bypass pumping?

    Answer: It is the Contractor's responsibility to determine viable routes for by-pass pumping and submit a plan for approval by the City.

39. Are there profiles for the sewer or at least invert and rim elevations for the sewer structures that we can have?

    Answer: Sewer structures elevation data can be provided upon request post-award.

40. Are there coordinates for the manholes and/or structures that we can have?

    Answer: Coordinate data can be provided upon request post-award.

41. At the discretion of the contractor to obtain access to the line can access points be constructed?

Answer: Yes, construction of additional access points will be considered and will be approved by the City.

42. Pipe Cleaning Debris. Is there a designated disposal site for pipe debris?

    Answer: No, there is no designated disposal site for debris. The Contractor will be responsible for determining a viable site.

43. Is there recent CCTV available of any of the lines?

    Answer: No, there is no recent CCTV available for the sewers.

44. Can the owner please clarify the joint venture requirements? Is there a requirement to have a joint venture with an M/FBE?
    Answer: All joint venture teams must consist of at least one City of Atlanta certified minority and/or female business enterprise (M/FBE). Additionally, each team must submit a JV agreement that meets the minimum requirements set forth on pages six and seven in Appendix A of the solicitation document. The JV agreement must be signed by key personnel of each team member.

45. Can an M/FBE joint venture partner also be a sub to the joint venture? If so, does any work performed by them for the JV count towards the goal requirements for AABE,APABE, HABE of 17.1% or FBE of 8.3%?
    Answer: A City of Atlanta certified minority and/or female business enterprise (M/FBE) can be both a JV partner and an M/FBE subcontractor on this project. However, the certified M/FBE firm must self-perform work to be credited with M/FBE subcontractor participation.

46. The project will require more than 16 months to coordinate and build-will the city consider extending the construction timeline to 30 months?

    Answer: No.

47. Due to the access issues at the Cross Creek Golf Club will the city consider closing holes at their owned course for the duration of construction?

Answer: No.

48. Section 02750 Does the City have any flow information for this line?

    Answer: Reference answer for Question No. 33.

49. Section 02750 Are there any known diversions for the line?

    Answer: Yes, an existing junction box is located within the vicinity of Bobby Jones Golf Course.

50. Section 02750 Can we get sewer maps for the area(s)?

    Answer: Sewer maps of the area are available and can be provided upon request post-award.

51. Section 02750 Are there any restrictions on where bypass pipes can be placed?

    Answer: The Contractor is required to submit a by-pass pumping plan for approval. As such, the Contractor should take care in determining possible impact to public and private property, as well as state waters and ROW that could affect the public health and safety.

52. Section 1.01.C We request that the requirement for the bypass system maximum piping length of 600 ft be deleted. We request that the Contractor be allowed to design the bypass system to meet their construction requirements (means and methods).

    Answer: The City will allow this modification to Specification 02750, Section 1.01 C. Reference revised Specification 02750 Wastewater Flow Control.

53. Section 2.02.A.1 Since the rehab system(s) specified do not require that the sewer be completely blocked during construction we request that the requirement to provide a system to handle peak wet weather flows be deleted. We request that the bidder be allowed to provide a system sufficient to accomplish the rehab work.

    Answer: The City declines this request.

54. We request that the requirement to operate the system 24 hours per day be changed to "Bypass pumping system will be required to be manned while it is in operation".
    Answer: The City declines this request.

55. Section 3.01.B We request that at the option of the Contractor, that cleaning may be done under bypassed conditions.
    Answer: Reference Specification 02511 Preconditioning and Cleaning of Manholes and Sewers and 02546 Grouted PVC Profile Sewer Pipe Liner System, Section 3.02 Preparation, Paragraph B – Cleaning.

56. 02546 1.01A – Is there any particular determining format for the 50 year service life determination?
    Answer: Reference Specification 02546 Grouted PVC Profile Sewer Pipe Liner System, Section 1.01, Paragraph D.

57. 02546 1.01C – states, "Contractor… shall make all dimensional adjustments particular to the lining system being furnished. All costs associated with such changes and adjustments shall be considered as being included in the price bid for the work shown and specified."
    Answer: Correct.

58. Please confirm, if the existing sewer and structures are different than those shown on the plans, that it is the City's intent to place this encumbrance on the Contractor?
    Answer: The sewers and structures shown on the drawings are representative of the best information available concerning existing assets. However, it will be the Contractor's responsibility to field verify.

59. If adjustments in machinery or grouting quantity are required to be included in the pricing, please either identify quantity, range, or some other measure to allow Contractor to establish the basis of their bids.

Answer: The City does not dictate means and methods. As such, it is the Contractor's responsibility to determine necessary adjustments, quantities, etc.

60. 02546 1.01H states, "to structurally withstand an [ITEM A] earthen overburden pressure depth of 30 feet dead load and [ITEM B] an AASHTO HS-20 Truck point load together with a minimum 6-inch earthen overburden. It must also be able to withstand an [ITEM C] internal bursting pressure equivalent to 40 feet of vertical head of water."
    Answer: Reference Specification Specification 02546 Grouted PVC Profile Sewer Pipe Liner System, Section 1.01, Paragraph H.

61. Should this not be evaluated as [ITEM A, B, & C Individually], [ITEM A + C], [ITEM B + C], and not [ITEM A+C] and then a separate calculation for [ITEM C]? Having a large overburden load with a point load added appears to be a severely prohibitive and costly design that is not likely to ever present itself in actual field conditions.
    Answer: Reference Specification Specification 02546 Grouted PVC Profile Sewer Pipe Liner System, Section 1.01, Paragraph H.

62. 02546 1.01i states, "The Owner may require modeling data for the purpose of flow verification as it affects the system."
    Answer: Yes, in addition to stamped calculations the City may require additional flow data. However, the City will not require hydraulic modeling be conducted.

63. Please confirm that this is requesting product data and NOT actual flow modeling expense.
    Answer: Reference answer to Question No. 62.

64. 02546/1.02a16 states, "If the design parameters require added reinforcing, submit the designer's detailed requirements."
    Answer: Reference Specification 02546 Grouted PVC Profile Sewer Pipe Liner System, Section 1.02, Paragraph A, item 16.

65. Does the Owner have a required clearance between host pipe-rebar and rebar-outside dimension of profile? Please clarify if these dimensions are clear between inner face or back of PVC ribs.

    Answer: Contractor is required to submit structural design calculations to be approved by the City.

66. 02546 3.02A1 states, "Contractor is required to obtain all permits, rights-of-entry and access which are not expressly part of the City's proscribed maintenance easements." Please clarify what is the City's prescribed maintenance easement language for the time which these sewers were constructed?

    Answer: Reference Specification 01351 Public Involvement, Section 3.15 Rights of Entry and Access to Private Property and the Easement Limits Sheet of the drawings set.

67. GC-18.6 Project Safety Coordinator- It states "Contractor shall provide a project safety coordinator who shall be devoted full time toward accident prevention during construction." Can the safety coordinator also be a project manager that is devoted 100% of the time to the project?

    Answer: No.

    A full-time Project Safety Officer must be provided for 100% of the project duration. The Project Manager cannot serve as the Project Safety Officer in addition to their respective role.

68. GC-QA/QC Coordinator—Section 01400 it states that there needs to be a QA/QC manager onsite at all times. Is it the intent of the City to have to bear the cost of a QC/QA Manager for non-measurable tasks such as cleaning of the pipeline?

    Answer: The City will allow for the Project Manager to serve in the capacity of the QA/QC Manager in addition to the respective role. Reference Specification 01200 Measurement and Payment, Section 2.01 General Conditions, Paragraph A – Mobilization/Project Management/Demobilization.

69. Section 01532E Smoke Testing Please provide further detail on smoke testing, i.e. locations that the engineer will want tested so that those costs can be included in the bid.

Answer: Specification 01532E Smoke Testing was provided as a technical reference (only). Should smoke testing be deemed necessary during the course of the work, it will be approved by the City and accommodated under the Allowances.

70. Section 02491 Rehabilitation of Sanitary Sewer Manholes-Are all the manholes on the project to be rehabilitated or select manholes?
Answer: Reference answer for Question No. 27.

71. General Section 02546-6 Contractors Experience-SAK Requests that the minimum of 10 years' experience be relaxed to 9 years. SAK has been in business for 9 years 9 months at the time of bid, will this suffice?
Answer: The City will allow experience within the past seven (7) years. Referenced revised Specification 02546 Grouted PVC Profile Sewer Pipe Liner System.

72. Section 02546-6.C The contractor must have installed a minimum of 2,000lf of 84 inch sewer main or larger grouted pvc profile. It our interpretation of the specification that 84" being referenced is the size of the main not the installed diameter of pvc.
Answer: This item is referring to the installed diameter of the PVC.

Attachment No. 2

Revised Specifications

SECTION 02750

Wastewater Flow Control

PART 1 – GENERAL

1.01 SCOPE

A. The objective of flow bypass and/or diversion pumping is to:

1. Maintain an efficient and uninterrupted level of service to wastewater collection system users while maintenance or construction operations (including rehabilitation, repair or replacement) are facilitated on the segment or segments being bypassed and/or from which flow is being diverted, within the wastewater collection system

2. Ensure all levels of sewage flow are continuously and effectively handled around the segment or segments of sewer being bypassed and/or from which flow is being diverted by:

   a. Ensuring that bypass and diversion pumps are adequately fueled, lubricated and maintained

   b. Ensuring backup spare parts are expeditiously applied to the flow bypass and/or diversion pumping system in the event of component breakdown

   c. Ensure an emergency backup plan is smoothly implemented in the event of system failure

   d. Preventing backup, spillage, flooding or overflow onto streets, yards and unpaved areas or into buildings, adjacent ditches, storm sewers, and waterways, while flow bypass or diversion pumping takes place and ensure that installation, startup and subsequent disassembly of the flow bypass and diversion pumping system is smoothly transitioned

B. When pumps are operating, an experienced bypass/diversion pump maintenance operator/mechanic and/or assistant shall continuously be on site to monitor the operation of the entire bypass/diversion system. The operator/mechanic and/or assistant shall comprehensively, methodically and continuously:

1. Adjust pump speed as appropriate so as not to adversely impact upstream or downstream flow condition levels

2. Check that the effectiveness and security of bulkheads, dams, diaphragms, plugs, valves, weirs, and all other flow control devices are working effectively and according to plan

3. Check the integrity of hoses and couplings along the entire bypass/diversion system

4. Monitor fuel tanks and refuel as necessary

5. Monitor lubrication levels and provide additional lubrication as necessary

6. Facilitate minor repairs as required

7. Report on potential problems arising

8. Inspect bypass-pumping system at least hourly to ensure that the system is working correctly.

9. Maintain adequate supply of spare parts on site as required.

1.02 SUBMITTALS

A. The design, installation, and operation of the temporary pumping system shall be the Contractor's responsibility. The Contractor shall employ the services of a vendor that can demonstrate to the Engineer that the vendor specializes in the design and operation of temporary bypass pumping systems. The vendor shall provide at least three (3) references of projects of a similar size and complexity as this project, which were successfully performed by the vendor's firm within the past three years. The reference shall include the name of the agency, the name of the project, the date of the project, and the agency contact (telephone, fax, and e-mail). The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction. A Bypass Pumping/Flow Diversion Plan shall be submitted 14 calendar days prior to the Pre-Construction Meeting.

B. During the course of the project, changes to the detailed, work-specific to the Bypass Pumping/Flow Diversion Plan for any bypass utilizing multiple pumps, or a single pump greater than 4" discharge, shall be submitted to the Engineer at least 10 days before required. This plan shall outline all provisions and precautions, to be taken by the Contractor, regarding the handling of existing wastewater flows. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials and all other incidental items necessary and/or required to insure proper protection of the facilities. The Plan shall also include details of protection of the access and bypass pumping locations from damage due to the discharge flows, compliance with the requirements and permit conditions specified in these Contract Documents. No construction shall begin until all provisions and requirements have been reviewed and authorized by the Engineer.

C. The Contractor shall submit two copies of the Flow Bypass Pumping/Flow Diversion Plan, described in Item 1.02(B) above, for each sewer bypass set-up with sufficient detail to show:

1. Staging areas for pumps
2. Sewer plugging method and types of plugs
3. Number, size, material, location, and method of installation of suction piping
4. Bypass pump sizes, capacity, number of each size to be on site and power requirements
5. Calculations for selection of bypass pump size
6. Standby power generator size, location
7. Downstream discharge plan
8. Method of protecting discharge manholes or structures from erosion and damage
9. Thrust and restraint block sizes and locations
10. Sections showing suction and discharge pipe depth, embedment, select fill and special backfill where required
11. Method of noise control for each pump and/or generator
12. Any temporary pipe supports, including rollers and elevated rollers, as well as anchoring required
13. Design plans and computation for access to bypass pumping locations indicated on the drawings
14. Schedule for installation of and maintenance of bypass pumping lines
15. Plan indicating selection location of bypass pumping line locations
16. The Plan shall indicate the means by which flows from service laterals will be accommodated

D. All proposed flow control arrangements, including flow bypass and/or diversion pumping plans for sewers, shall also include an emergency response plan to be

followed in the event of a failure of the bypass pumping and/or diversion system. Contractor's emergency response plan shall be in accordance with the City's Emergency Response Plan.

E. The Contractor shall notify the Engineer 24 hours prior to commencing actual flow bypass and/or diversion pumping operations. The Contractor flow control proposal shall be agreed to by the Engineer before the Contractor shall be allowed to commence sewerage bypass pumping and/or diversion.

1.03 RELATED SECTIONS

The Work of the following Sections apply to the Work of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of Work.

1.	Section 02752:	Internal Sewer Condition Assessment
2.	Section 02511:	Preconditioning and Cleaning Manholes and Sewers
3.	Section 02730:	Sewers and Accessories
4.	Section 02491:	Rehabilitation of Sanitary Sewer Manholes

1.04 RESPONSIBILITY FOR OVERFLOWS OR SPILLS

A. It shall be the responsibility of the Contractor to schedule and perform his work in a manner that does not cause or contribute to incidence of overflows or spills of sewage from the sewer system.

B. In the event of overflows caused by the Contractor's work activities, the Contractor shall immediately take appropriate action in accordance with the City's Emergency Response Plan (ERP), to contain and stop the overflow, clean up the spillage, disinfect the area affected by the spill, and notify the designated Engineer in a timely manner. The Contractor shall prepare his own written Standard Operating Procedure (SOP) for handling and reporting spills, which shall be compatible with the City's ERP.

C. Contractor will indemnify and hold harmless the City for any fines or third-party claims for personal or property damage arising out of a spill or overflow that is fully or partially the responsibility of the Contractor, including the legal, engineering and administrative expenses of the City in defending such fines and claims.

PART 2 – PRODUCTS

2.01 PUMPING EQUIPMENT

A. All pumps used shall be fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps in the priming system. The pumps may be electric or diesel powered. All pumps used must be constructed to allow dry running for long periods of time to accommodate the cyclical nature of effluent flows.

B. The Contractor shall provide the necessary stop/start controls for each pump.

C. The Contractor shall include one stand-by pump of each size to be maintained on site for each by pass set up unless otherwise agreed with the Engineer.

D. The Contractor shall design all piping, joints, and accessories to withstand twice the maximum system pressure or 50 psi, whichever is greater. The back-up pump, appropriate piping, fuel, lubrication and spare parts shall be incorporated into the bypass arrangement at the site, ready for use in case of breakdown. A bypass "drill" shall be carried out by the Engineer before the bypass arrangement is accepted on all sewers > 12" diameter, at no cost to the City. The drill shall demonstrate the incorporation of all standby equipment to handle flows when the main pump set is switched off. The Engineer's instructions following the drill shall be adhered to in full at no additional cost to the City.

E. No more than two (2) pump discharge hoses shall be used for the bypass/diversion over the length of the line of segment(s). If the flow exceeds the capacity of 2 "hoses", then rigid piping shall be used. The rigid piping shall consist of HDPE or steel pipes with suitably pressure rated couplings to withstand twice the maximum system pressure or 50 psi, whichever is greater.

F. Under no circumstances will aluminum "irrigation" type piping or glued PVC pipe by allowed. Discharge hose will only be allowed in short sections and by specific permission from the Engineer.

2.02 SYSTEM DESCRIPTION

A. Design Requirements:

1. Bypass pumping systems shall have sufficient capacity to pump a peak flow in the pipes that are being rehabilitated or repaired. The Contractor shall provide all pipeline plugs, pumps of adequate size to handle wet weather peak flows, and temporary discharge piping to ensure that the total flow of the main can be safely diverted around the section to be repaired. Bypass pumping system will be required to be operated 24 hours per day.

2. The Contractor shall have adequate standby equipment available and ready for immediate operation and use in the event of an emergency or breakdown.

One standby pump for each size pump utilized shall be installed at the mainline flow bypassing locations, ready for use in the event of primary pump failure.

3. Bypass pumping system shall be capable of bypassing the flow around the work area and of releasing any amount of flow, up to full available flow, into the work area as necessary for satisfactory performances of work.

4. The Contractor shall make all arrangements for bypass pumping during the time when the main is shut down for any reason. System must overcome any existing force main pressure on discharge.

B. Performance Requirements:

1. It is essential to the operation of the existing sewerage system that there is no interruption in the flow of sewage throughout the duration of the project. To this end, the Contractor shall provide, maintain and operate all temporary facilities such as dams, plugs, pumping equipment (both primary and back-up units as required), conduits, all necessary power, and all other labor and equipment necessary to intercept the sewage flow before it reaches the point where it would interfere with his work, carry it past his work, and return it to the existing sewer downstream of his work.

2. The design, installation, and operation of the temporary pumping system shall be the Contractor's responsibility. The bypass system shall be the Contractor's responsibility. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.

3. The Contractor shall provide all necessary means to safely convey the sewage past the work area. The contractor will not be permitted to stop or impede the main flows under any circumstances.

4. The Contractor shall maintain sewer flow around the work area in a manner that will not cause surcharging of sewers, damage to sewers and that will protect public and private property from damage and flooding.

5. The Contractor shall protect water resources wetlands and other natural resources.

PART 3 – EXECUTION
3.01 PLANNING

The Contractor shall be solely responsible for planning and executing sewer flow control, bypass, and diversion pumping operations. The Contractor shall be entirely liable for damages to private or public property that may result from his operations and for all

cleanup, disinfection, damages, and resultant fines in the event of a spillage, flooding or overflow.

3.02 GENERAL

A. If, during normal rehabilitation work on manholes and sewers, where flow control devices including flow bypass and diversion pumping have not been deployed, and wastewater flow depth exceeds the workable levels, the rehabilitation work shall be discontinued immediately. Rehabilitation work shall only resume when minimum flow levels prevail– normally between 2:00 am to 5:30 a.m. Under these circumstances, one or more of the following flow control systems shall be deployed at no additional cost to the City:

1. Plugging or blocking

2. High-velocity jet nozzles

3. Bypass and/or diversion pumping

B. Before any flow control arrangement is installed, the Contractor shall arrange to desilt the segment of sewer to be bypassed while still under flow. Subsequent jetting and final cleaning before rehabilitation or repair shall be undertaken while the segment of sewer is bypassed.

C. Precautions:

1. Contractor is responsible for locating any existing utilities in the area the Contractor selects to locate the bypass pipelines. The Contractor shall locate his bypass pipelines to minimize any disturbances to existing utilities and shall obtain approval of the pipeline locations from the City and the Engineer. All costs associated with relocating utilities and obtaining all approvals shall be paid by the Contractor.

2. During all bypass-pumping operations, the Contractor shall protect mains, manholes, and all local sewer lines from damage caused by any equipment. The Contractor shall be responsible for all physical damage to mains, manholes, and all local sewer lines caused by human or mechanical failure.

3.03 PLUGGING OR BLOCKING

A. Insert sewer line plug into the line at a manhole upstream from the manhole or sewer that is to be rehabilitated and tested. For manhole rehabilitation, the plug shall be designed so that a portion of the sewage can be released downstream. During this portion of the operation, shut off or substantially reduce flows so that

the manhole can be properly cleaned, prepared, and rehabilitated. Flow shall be shut off as required, to properly rehabilitate the manhole or sewer.

B. Plugging or blocking of sewage flows shall incorporate primary and secondary plugging device. When plugging or blocking is no longer needed for performance and acceptance or work, it is to be removed in a manner that permits the sewage flow to slowly return to normal without surge, to prevent surcharging or causing other major disturbances downstream.

3.04 FLOW BYPASS AND/OR DIVERSION PUMPING SCHEDULING

A. If the City is operating or maintaining conventional pumping facilities and/or flow bypass and/or diversion pumping in the construction area of the present Contract, the Contractor shall coordinate with the City as necessary to determine and effect optimum working arrangements.

B. The Contractor shall immediately cease bypass and/or diversion pumping when so ordered by the City.

3.05 ENVIRONMENTAL PROTECTION MEASURES

During flow bypass and/or diversion pumping, the Contractor is prohibited from allowing any sewage to be dumped, or spilled in or onto the ground or any area outside of the existing wastewater collection system. In addition, due care and attention shall be given to prevent vehicular or pump fuel or lubrication oil to be leaked.

3.06 PIPE RESIDUE

When flow bypass and diversion pumping operations are complete, the residual contents of sewage in piping shall be drained into the existing sewer prior to disassembly.

****END OF SECTION 02750****

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SECTION 02546

Grouted PVC Profile Sewer Pipe Liner System

PART 1 - GENERAL

1.01 SCOPE

A. Work described in this Section includes furnishing all labor, materials, equipment, tools and incidentals required for a complete and operable installation of grouted PVC profile lining. This conduit renewal system must fully conform to the Contract Documents. The intent of this process is to restore this trunk sewer to an additional fifty (50) year service life.

B. All materials shall be installed, adjusted, tested and placed in operation in accordance with these Specifications, the manufacturer's recommendations and as shown on the Contract Documents. The general requirements herein, together with the detailed requirements of the specifications, establish the work necessary to furnish and install the liner system.

C. Contract documents refer only functional features and some of the required external connections. They do not specify all components required for a complete installation nor exact dimensions particular to any manufacturer's lining system. Contractor shall supply all parts, devices and equipment necessary to meet the requirements of the Contract Documents and shall make all dimensional adjustments particular to the lining system being furnished. All costs associated with such changes and adjustments shall be considered as being included in the price bid for the work shown and specified.

D. The grouted PVC profile lining renewal process utilizes an extruded polyvinyl chloride (PVC) profile strip that is installed into an existing conduit (host pipe). The extruded profile strip is mechanically locked together on the grouting side by virtue of the profile design and the use of the grouting process to the prepared surface of the host pipe. There shall be no internal adhesive or field-applied devices to secure the profile unless recommended by the Manufacturer/Supplier and approved by the Engineer. Welding of the seams, use of resin-based patching compound, parging and transition sections may be acceptable if approved by the Engineer for defined and specific areas and in compliance with the Manufacturer/Supplier's fifty (50) year service life warranty.

E. The Work of this Section shall comply with the current versions, with revisions, of the following:

1. OSHA 29 CFR 1910.146 (permit-required confined-space regulations)
2. General and Special Conditions of this contract.

F. All work and testing shall comply with the applicable Federal codes, including Federal Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1969, as amended, and applicable state and local codes and standards; and to the extent applicable with the requirements of the Underwriter's Laboratories, Inc. and the National Electrical Code.

G. Related Work Specified Elsewhere;

1. Section 01200 – Measurement and Payment
2. Section 02200 – Site Preparation
3. Section 02511 – Preconditioning and Cleaning Manholes and Sewers
4. Section 02730 Sewers and Accessories
5. Section 02750 – Wastewater Flow Control
6. Section 02491 – Rehabilitation of Sanitary Sewer Manholes
7. Section 03300 – Concrete Work
8. Section 03200 – Concrete Reinforcing

H. The gravity or storm sewer line, rehabilitated with the grouted PVC profile conduit renewal system shall be capable to structurally withstand an earthen overburden pressure depth of 30 feet dead load and an AASHTO HS-20 Truck point-load together with a minimum 6-inch earthen overburden. It must also be able to withstand an internal bursting pressure equivalent to 40 feet of vertical head of water. Calculations must be provided in the submittal process and will be part of the requirements in the certification documentation.

I. The rehabilitated sewer or storm line shall have an improved coefficient of friction sufficient to compensate for the reduced diameter of the rehabilitated pipe and shall at least have the same capacity as the existing sewer pipe. The Contractor/Manufacturer's engineer will be required to provide a submittal of stamped calculations to quantify the average end area reduction and the resultant flow impacts. This must be stamped by a PE registered in the state of Georgia. The Owner may require modeling data for the purpose of flow verification as it affects the system. The Manufacturer/Supplier will assist in this process as requested.

1.02 SUBMITTALS

A. Submittals shall be in accordance with the requirements of the General and Special Conditions of the Contract Documents. In addition, the following specific information shall be provided:

1. Product Data: Descriptive details and shop drawings covering full details of pipe lining material, fittings, special procedures, joints and assemblies, joint materials, termination and transition strips/splices or appliances and details, including any resin or cementitious parging, feathering or transition materials and full details for the lining layout and transition to and from manholes, vaults and access shafts. This includes

catalogue cuts of all materials to be incorporated into the work with samples as requested by the Engineer and MSDS sheets on chemicals, grout or other components included.

2. Manufacturer's Installation Instructions including any special procedures required to install products specified and any safety equipment or processes; training and equipment and QA/QC testing required to successfully install the 50-year service life certified product. A draft copy of the Manufacturer's warranty is to be submitted within 30 calendar days of NTP.

3. Manufacture's Certificate: Manufacture's certificate certifying that products meet or exceed the requirements of ASTM D1697 and/or ASTM F1735, and the requirements of these Specifications.

4. A notarized letter from the grouted PVC profile lining Manufacturer/Supplier certifying that they have reviewed the project application and that they certify the fitness of their products for use in this application. They must further affirm that their grouted PVC lining system conforms to the requirements of this specification and all other applicable contract requirements. Certification of the material shall also provide the history of successful application of the product with Owner and Engineer contacts within the last five (5) years. The Owner at its discretion may require a 5-year product warranty and bond, backed by an AM Best rated surety. The grouted PVC profile manufacturer must supply letters of qualification certifying the fitness of their products for use in the grouted PVC lining system and conformance to the requirements of this specification and all other Contract requirements. Certification shall also provide the history of successful applications of the specified product in similar size installations. The installation contractor shall be approved and qualified by the Manufacturer.

5. Manufacturers' references meeting the requirements of 1.03 B and C.

6. Contractors or installation subcontractors' references meeting the requirements of 1.03 D.

7. The contract documents identify the requirements and limits of the rehabilitation. The Contractor shall submit initial (used for bidding) and final (after the Contractors inspection) structural design calculations prepared and signed and sealed by a Professional Engineer licensed in the state of Georgia showing the required PVC liner system thickness, grout strength and thickness and steel or other approved reinforcing requirements of the installation as required to fulfill the structural requirements. PVC profile lining strip design calculations shall be supported by field analysis, stated technical assumptions, requirements of this specification and ASTM F1697 /F1735. The calculations shall at a minimum demonstrate compliance with Section 1.01 H and I above for loads and pressures and flow capacity. The submittals shall include

calculations covering all conditions of host pipe shape and size, transition sections, pipeline configurations and all structures that are to be lined through.

8. All calculations shall be prepared, signed and sealed by a Professional Engineer licensed in the state of Georgia demonstrating the ability of the internal lining system to conform to the installation requirements without buckling and/or deformation due to flotation and pressures experienced during the grouting operations. A complete detailed submittal of the grouting process is required as part of this process per specification.

9. A site-specific safety plan shall be submitted and shall address ventilation, lighting, ingress/egress, rescue procedures, and training certification of employees. It shall have sections that address specific parts of the installation operation and how the safety plan is tied to the Pumping and Grouting activities, procedures for inclement weather, or power failure; redundancy of equipment and manned monitoring items shall be included.

10. Host pipe cleaning method(s) submittals will be required on all phases of the operation including the initial debris removal and heavy pressure cleaning. The package should include the specifics on debris and detritus removal and hauling and disposal per Spec Section 02511 and paragraph 02546-3.01 – Execution of this section.

11. Bypass pumping plan and/or flow control pumping will be submitted for approval to the Engineer. Refer to Spec Section 02750 Wastewater Flow Control. It shall include safety features, alarms, manned observation locations and auto-dialer system to ensure continuous worker safety, monitoring, spill avoidance and operations. This plan shall include redundant equipment, processes and contingencies. Refer to paragraph -2546-3.02 C. of this section.

12. Pre-installation video and 360 degree 3D digital laser survey of host pipe are required. This activity is part of the pre-installation verification activities required for the Contractor and lining Supplier to certify the suitability of the existing conduit conditions; identify settlement, deterioration or areas requiring pre-installation repair.

13. Work plans for the lining process shall include details of all materials and equipment to be used during the lining process. They shall also include safety, flow control and other elements that are part of those project planned activities. They must be thorough, detailed and have backup, assignment lists; checklists; contact lists and contingency elements to the plans. The coordination points with the City's Public Information group and the Contractor's Customer Service team should be scheduled and detailed to coincide with any changes to service or notice of community impacts.

14. A grout mix design from an industry-certified concrete supplier shall be submitted with certified laboratory test breaks data, which demonstrates that the grout mix will

satisfy the structural requirements of this specification; the design calculations; and the Manufacturer's warranty. The Contractor and lining Manufacturer/Supplier's design submittal must comply with the stated structural requirements and the submittal shall include the QA/QC plan to verify that the design has met those standards throughout the installation process.

15. Work plans for annular grouting that addresses the spacing and details of bulkheads, details of any bracing or restraint systems (including design calculations), grout injection/vent holes, the number of grout lifts required to fill the annular space, and methods for repairing holes in the lining are required. They must be coordinated with the structural design requirements; testing requirements in the QA/QC plan and tied into the project schedule as the set-time and number of grouting lifts affect the production rate of the lining crews.

16. Documentation for the steel strip reinforcing, if applicable, confirming that the steel satisfies the requirements of this specification and the Contractor's design submittal. If the design parameters require added reinforcing, submit the designer's detailed requirements; mesh, rebar or standees.

17. Documentation for the PVC profile strip material confirming that the material satisfies the requirements of this specification and the Contractor's design submittal.

18. Compressive strength tests and the QA/QC test results for annular grouting are part of the comprehensive lining process. The Contractor is required to provide a detailed Quality Assurance and Quality Control Program as an embedded activity within the lining installation.

19. Within 2 weeks of final acceptance of the work the Contractor shall submit four (4) sets of the following to the Engineer in a comprehensive notebook format: DVDs of the original pre-construction videos; DVDs of all final submittal copies; DVDs of the pre-installation videos; DVDs of all rights of entry agreement copies; surveys; easements and the pre-construction videos of the areas affected; the restoration videos of each affected property and a copy of the property owner's signed acceptance of the restoration of the property; DVDs of all the project photos taken by the Contractor, Manufacturer/Supplier and others; digital and hard copy survey-stationed as-built drawings complying with the Owner's GIS system; DVDs of post-installation video survey of the renewed conduit; DVD and hard copies of all warranty and bond documents.

B. The Contractor must submit a work plan for each portion of the work undertaken. This is to include all elements of the field work installation and all safety issues to be managed. A checklist detailing responsibility of each item is to be in the work plan. All emergency extraction equipment and gas detection devices are to be included on the checklists for each setup. The Engineer has the right to require adjustments to the plan but it remains the Contractor's plan and responsibility.

C. A cost and resource loaded P-6 schedule is required. Refer to SC- 16. It shall include:

1. Reference IDs that coincide with the survey stations and Owner's GIS IDs
2. Identify manholes and vaults; points of access; location and duration of required equipment
3. Updates would require tracking of ROE and easement restraints; material deliveries and any element that the Engineer/Owner feels necessary for accurate tracking.

1.03 QUALITY ASSURANCE

A. Reference Standards: The Contractor shall comply with the applicable provisions and recommendations of the latest editions of the following standards, except as otherwise shown on the Plans or specified in these Specifications.

1. ASTM C109-05 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimen)
2. ASTM D256-06 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
3. ASTM D638-03 Standard Test Method for Tensile Properties of Plastics
4. ASTM D648-06 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
5. A653/A653M-06 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
6. ASTM C 939 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
7. ASTM C940-98 Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Pre-placed Aggregate Concrete in the Laboratory.
8. ASTM C 942 Standard Test Method for Compressive Strength of Grout for Preplaced-Aggregate Concrete in the Laboratory
9. ASTM C1090-01 Standard Test method for Measuring Changes in Height of Cylindrical Specimens of Hydraulic Cement Grout.
10. ASTM F1697-09 Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Strip for Machine Spiral Wound Liner Pipe Rehabilitation of Existing Sewers and Conduits.
11. ASTM F1741-08 Standard Practice for Installation of Machine Spiral Wound Poly(Vinyl Chloride) (PVC) Liner Pipe for Rehabilitation of Existing Sewers and Conduits.
12. ASTM D1784-03 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compound.

B. Manufacturer's Experience. The manufacturer of the grouted PVC profile liner system shall have a minimum of 100,000 linear feet (LF) of storm/sewer main successfully installed of equal size or larger than proposed for the project. The Manufacturer/ Supplier

shall submit references from a minimum of four (4) separate projects to meet these requirements.

C. Contractor's Experience. The Contractor or the installation subcontractor shall have a minimum of seven (7) years' experience in sewer and confined space work and shall have installed a minimum of 2,000 linear feet (LF) of 66-inch sewer main or larger grouted PVC profile lining. A current Georgia Utility Contractor's License is required. Experience on gunite application or resin bag lining may not be substituted. Specific team experience requirements follow: Contractor shall supply a minimum of three (3) references from similar projects, with name of contact person, position and contact information. The information supplied shall include a project description, location and year started or completed.

1. Field Superintendent. The Contractor shall submit the name, qualifications and references for each proposed field superintendent for the project. The Contractor is required to have at least one (1) qualified and APPROVED superintendent on the job site at all times during all lining and grouting activities. The field superintendent must have field experience on a minimum of five (5) years of sewer construction including confined space training and one (1) successfully completed sewer lining project installing a grouted lining similar to the proposed grouted PVC profile system. It must be of similar size and complexity within the last seven (7) years. Experience on gunnite application or resin bag lining may not be substituted.

2. Installation Crew. At least one person other than the field superintendent from each lining installation crew shall have a minimum of five (5) years in sewer construction and confined space training and one (1) successfully completed sanitary sewer lining project installing a similar grouted lining product of similar size and complexity within the last seven (7) years. Experience on gunnite application or resin bag lining may not be substituted.

D. Warranty.

1. The Contractor shall warranty the lining installation and shall obtain from the Manufacturer/Supplier its written warranty of the grouted PVC liner system. It must stipulate that the grouted PVC system conforms to the requirements of these specifications. They will warranty it to be free from defects in materials and workmanship for period of five (5) years from the date of completion and final payment of this project. The Manufacturer/Supplier shall make periodic inspections of the lining process to ensure compliance with their recommended procedures and will provide timely documentation to the Engineer/Owner verifying that they have performed this field review. The manufacturer's warranty shall be in a form acceptable to and for the benefit of the Owner and shall be submitted by the Contractor as a condition of final payment.

2. The Contractor shall, as a part of this warranty, agree without legal appeal to repair or replace, at the Owner's discretion and within two (2) weeks of notification any discovered defects or lining failures. This work will be performed at no cost to the Owner, and covers any work found to be defective within the five (5) year warranty period. Any such repairs or replacement shall include all costs of removal, repair and reinstallation; it shall carry no proration of cost.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Grouted PVC Profile Lining Strip:

1. Profile strip shall be made from compounds conforming to ASTM D1784-03 with a cell classification of 12344 or higher.

2. Profile designation (geometry) shall be compatible with the design requirements for the renewed conduit and shall be suitable for installation in the host pipe.

3. Grouting port plugs, restraint appliances, patching and parging materials must be compatible with the PVC profile lining. It must be submitted by the Contractor and certified by the Manufacturer/Supplier as a compatible part of the system covered by the warranty.

4. Provide all test results to the City prior to installation.

B. Annular Grout:

1. Grout to be used to fill the annular void space to consist of Portland cement, water, and suitable admixtures for flowability and strength per approved manufacturer's specification. Any requests to utilize fly ash will require added QA/QC steps to affirm that any fly ash additives have a consistent pH of at least 7.

2. Flow characteristics, maximum drying shrinkage, and minimum compressive strength requirements for the grout shall be compatible with the design requirements for the renewed conduit and shall be compatible with the field conditions under which the grout will be installed. This includes that the timing and strength of each grout lift shall be compatible with achieving the required strength and set without deforming the PCV liner and it shall support the Contractor's scheduled submittal.

3. Grout shall be sampled and tested as follow: A minimum of six (6) cubes will be cast for each 50 cubic yards or each lift of grout placed per day, or fraction thereof. Grout shall be sampled and tested with a frequency of 1 at 24 hours, and then one at 3 days, one at 7 days, two at 28 days and one at 56 days or per the Engineer's

instruction. Sample preparation, curing and testing shall conform to ASTM C109-05. The test report shall record date, time, location, identification of the lift where grout is placed, and identification of longitudinal location referenced to nearest manhole where grout is placed.

4. A set of two (2) cylinders will be molded and tested in addition to the cubes. The cylinders will be 4 inch diameter and 8 inches in length. The cylinders will be molded and initially cured in accordance with ASTM C31. After initial curing in the field, the cylinders will be transported to the laboratory for further curing and compressive strength testing in accordance with ASTM C39. Grout shall be tested for compressive strength at 28 days of age or per the Engineer's instruction.

C. Steel Reinforcing Strip and Reinforcing Options: (Dependent on design)

1. The steel reinforcing strip if part of the PVC liner profile strip shall be fabricated from sheet steel conforming to ASTM A653 or ASTM A1011.

2. The thickness, formed shape, and yield strength of the strip shall be compatible with the design requirements for the renewed conduit and the specified profile designation.

3. Alternate requirements for reinforcing steel may be required by the Engineer for added strength. All reinforcing bar shall be minimum 50 ksi rated, epoxy coating optional. Standees or chairs must be suitable for pre-assembly and underground utility application.

4. If dimpled 6" x 6" welded wire (WW) Fabric or polyester grid is used the submittal must detail laps and lengths and the restraining method. If carbon fiber or other reinforcing is used, it must support the 50-year utility service life requirements and be completely detailed in the structural calculations submittals.

5. All work shall conform to ASTM F1697F1741 "Standard Practice" for grouted PVC pipe installations.

2.02 PRODUCT HANDLING

A. The PVC lining profile material shall be packaged and shipped for ease of handling and product protection. The product shall be inspected for defects at the time of manufacture and again in the field prior to installation. Defects to the profiles include, but are not limited to, gouges, abrasion, flattening, cuts, punctures, and ultra-violet (UV) degradation. Defective product shall not be installed and shall be removed from the jobsite. Handling and storage of the profile reels shall be in accordance with the manufacturer's instructions.

B. All other products required to complete the grouted PVC profile lining renewal process shall be handled and stored in accordance with the manufacturer's instructions. Each product shall be accompanied by its relevant specification and MSDS information. Product may not be stored for more than a week at the access points and then only if they are physically secured from public access.

2.03 MATERIAL MARKING

A. The profile strip shall be distinctly marked on its inside surface at appropriate intervals with a code number identifying the manufacturer, plant, date of manufacture, and profile designation.

B. All other products required to complete the grouted PVC profile lining renewal process shall be distinctly marked with product type and manufacturer. All parts incorporated into the final lining system must be submitted and approved by the Manufacturer and Engineer.

2.04 ACCEPTABLE MANUFACTURERS

A. The grouted PVC profile lining system shall be as manufactured by Sekisui SPR Americas, LLC.

PART 3 - EXECUTION

3.01 GENERAL

A. Perform all work in accordance with applicable OSHA standards.

B. All work shall conform to ASTM F 1697 " Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Strip for Machine Spiral Wound Liner Pipe Rehabilitation of Existing Sewers and Conduits..

3.02 PREPARATION

A. Host Pipe Access:

1. Unless otherwise specified by the Engineer, the Contractor may utilize any of the existing manholes in the project area as access points. The Contractor is required to obtain all permits, rights-of-entry and access which are not expressly part of the City's proscribed maintenance easements. The Contractor is to copy the City on their agreements with property owners and their permits packages. The Contractor is further to hold harmless the City and their agents from those agreements.

2. Should temporary excavations be needed to access the host pipe, such work shall be coordinated with the Engineer. Excavations shall be sloped or shored in

accordance with all applicable safety regulations, detailed in both the work plan and safety plan and protected from public access. This activity is incidental to the work and is not paid separately.

3. Any permanent manholes or vaults that are added to the sewer system are to be numbered and mapped in accordance with the City's existing GIS designations and physically labeled in the field as well.

4. Any access requiring road closures or lane closures are to be properly permitted and coordinated with the Public Information staff and the Contractor's Customer Service staff. They are to be managed to have minimal impact on traffic and the surrounding community. They are to be safely managed at all times.

B. Cleaning:

1. All debris and obstructions shall be removed from the host pipe and disposed of in accordance with the requirements of the contract, and local codes and ordinances. The Contractor or his subcontractor is responsible for obtaining and paying for hauling and hauling permits. Chain of custody documentation may be required by the City on all debris and detritus disposal loads if deemed necessary. It will be incidental to the work and not paid for separately.

2. Cleaning shall be performed in accordance with Section 02511 and in accordance with the grouted PVC profile sewer pipe liner system manufacturer.

3. Water jetting shall be used to clean and prepare the surface of the host pipe. All loose material, acids, grease and other deleterious substances shall be removed during cleaning, and the prepared surface shall be suitable for mechanical bonding with cementitious grout. The Contractor or his subcontractor is responsible for obtaining all temporary hydrant connections and paying for the water used. They are responsible for hauling off and properly disposing of the detritus. Chain of custody documentation may be required by the City on all debris and detritus disposal loads if deemed necessary. It will be incidental to the work and not paid for separately.

C. Flow bypassing and/or control:

1. Where required for safe and effective application of the technology, the Contractor shall determine whether diversion and/or full or partial bypass flows around the length of host pipe designated for renewal is required. These activities shall be detailed in both the work and safety plans. These activities shall be coordinated with the City's R.M. Clayton WRC, Sewer Operations Division and the Public Information staff. The Contractor's work plan may not put the City's operations at risk. These activities may require weekend or low-flow evening operations and the Contractor shall build that flexibility into his contract schedule as incidental to that work.

2. The bypass shall be made by diverting flow or plugging the host pipe at an existing upstream manhole and pumping the full or partial flow into a downstream manhole; or by containing the existing flow in a manner which keeps the pipe clean after jetting. A detailed work plan will be submitted that contains each aspect of the diversion and/or pumping plan with redundancy, equipment specs and placement. The bypassing and flow control plan must contain specific safety elements and emergency criteria.

3. The Contractor is responsible for submitting a complete package of flow calculations covering the diversion pumping and containment of flow with their material submittals and work plan. This must include redundancy and auto-dialers, alarms and/or manned support to ensure worker safety and the prevention of spills. The Contractor or his subcontractor must also have a defined contingency plan in the event that any portion of this work plan fails. This is a separate and distinct submittal which follows the work and safety plan submittals.

4. The pump and bypass lines at a minimum shall be of adequate capacity to handle peaking dry weather flows. They shall be set up with fail-safe floats and auto dialers that prevent safety incidents, overflows, failures and spills. The autodialer shall be capable to call at least 3 persons each for the Engineer/Owner and 2 for the Contractor.

5. Flow interruptions shall be coordinated with the Engineer at least 14 days in advance and with property owners and businesses at least 3 days in advance. The Contractor's Customer Service reps are to provide contact and coordination with stakeholders well in advance of the scheduled shutdowns and advise the Engineer of any issues to be managed during the activity. Contractor's Customer Service staff is required to be on-site and/or on-call during all diversion, pumping and service outages as determined necessary by the City or Engineer.

6. All motorized equipment shall have super-silencers to minimize the noise level and shall be surrounded by noise reduction panels when required by the Engineer or Owner. All critical point equipment will have redundancy including pre-fueled generators on standby.

7. Flow bypassing and/ or control shall be performed in accordance Section 02750.

D. Pre-Installation Inspection and Surveying:

1. After cleaning, and prior to installing the PVC profile material, the Contractor shall notify the Engineer and lining Manufacturer to inspect the host pipe. This is to ensure there are no excessive variations in the host pipe profile and no obstructions that would hinder the successful installation of grouted PVC profile lining. Contractor and the lining Manufacturer shall also verify that the sizing of the profile

(wound geometry) will be suitable for the host pipe geometry. The Manufacturer shall provide to the Owner through the Contractor their notarized certification requirements per 1.02 Submittals: A.4. This task is a man entry observation where Contractor safety precautions must be followed.

2. The longitudinal and radial locations of all lateral connections to the host pipe shall be logged for subsequent reinstatement. This is to use the existing City GIS stationing and to be entered into the as-built survey data. This task is a man entry observation where Contractor safety precautions must be followed.

3. The Contractor shall perform a pre-installation video survey of the host pipe as required by the Owner. It shall include survey stationing/GIS, show all manholes, vaults and lateral connections. The Owner will receive three (3) copies of this video on DVD. This work shall be performed in accordance with Section 02752.

4. The contractor shall perform a pre-installation high definition 3D laser scanning survey as required by the Owner. The surveyor shall have a minimum of 5-years of experience with such surveying technique. The accuracy of this surveying shall be +/- 3/8 inch. The Contractor will provide a copy of this survey and five (5) sets of alignment drawings generated from them and one (1) reproducible to the Owner and Engineer prior to commencement of any lining activity. This survey shall include survey stationing/GIS, show all manholes, vaults and lateral connections. The Owner will receive three (3) copies of this video on DVD.

3.03 INSTALLATION

A. Grouted PVC Profile Lining:

1. Installation of grouted PVC profile shall conform to approved submittals and bid specifications. The profile shall be wound/installed using the equipment recommended by the Manufacturer and certified to produce an acceptable and warrantable lining system. The winding machine traverses down the host pipe forming the spiral wound lining conduit as it goes.

2. The process shall be continuous until the lining is complete for the length of host pipe to be renewed. The material splicing method must be reviewed by the Engineer to assure quality and durability of the method of splicing. Any restraint appliances used as a permanent part of the work must be reviewed by the Engineer for compliance with the 50-year service life requirements. They must be recommended by and installed in accordance with the Manufacturer's recommendations. Exposed metal surfaces will not be accepted.

3. After cleaning the host pipe, and prior to lining with the grouted PVC profile strip, the Contractor and the lining Manufacturer/Supplier shall inspect the host pipe to ensure there are no excessive variations in the host pipe profile and no obstructions

not known or shown in the plans that would hinder the successful installation of the grouted PVC profile liner system. Contractor shall also verify that the sizing of the profile (geometry) will be suitable and adequate for the host pipe geometry, the structural requirements and the flow requirements of the system as described above in 3.02 D.

4. The longitudinal and radial locations of all lateral connections to the host pipe shall be located by survey station and logged for subsequent reinstatement. The tie-in method and process is to be submitted with materials package. They shall comply with the Manufacturer/ Supplier's recommendations and support the warranty.

5. The Contractor shall perform a pre-installation video survey of the host pipe as described above in 3.02 D.

B. Annular Grouting of the PVC Lining System:

1. Annular grouting shall conform to the Contractor's approved submittals and in accordance with the approved lining design.

2. After the PVC profile lining material has been installed, and before the annular space is grouted, the Contractor shall restore service at all lateral connections. Field conditions will dictate whether service restoration can be done from inside the conduit or whether restoration will require the exterior of the conduit and connecting pipes to be exposed.

3. Grouting shall be done between bulkheads installed at pre-determined distances along the conduit, in lift increments as per the approved submittals and the structural design.

4. Prior to grouting, bracing or restraint work shall be installed which shall be designed by the Contractor with the lining Manufacturer's engineer to serve the following functions during grouting; (a) prevents flotation of the PVC profile lining material, (b) align the PVC profile lining material within the host pipe so that the required annular space is maintained between the PVC profile strip and host pipe, (c) prevents excessive deflection, flotation or buckling of the PVC profile lining material.

5. The approved grout shall be pumped into the annular space between the PVC profile lining material and the host pipe through pre-drilled locations around the circumference of the PVC lining material. Vent holes shall be provided at suitable locations to permit air to be expelled from the annular space and to monitor grout fill levels.

6. Grout shall be sampled and tested in accordance with the Contractor's approved QA/QC plan, the Manufacturer's recommendations, and the approved design

submittal's strength requirements for the restored pipe per the Engineer's reviews as described above in 2.01 B.

a. Sample preparation of the grout mix design and testing shall conform to ASTM C109-05.
b. The Contractor shall provide a 56-day curve of grout strength to the Engineer prior to the first grouting activity as part of the QA/QC plan monitoring baseline.
c. Grout cubes shall be taken during that process as part of the QA/QC criteria.

7. Grouting shall not exceed the number of height of lifts or CF speed of pumping recommended by the Manufacturer/Supplier and approved by the Engineer. Grouting must completely fill the annular space without causing deformation of the PVC profile material.

8. The volume of grout required to fill the annular space for each section between bulkheads is to be calculated prior to the grouting activity and reported to the Engineer. It shall be monitored to ensure that each segment is fully grouted per the approved design. Actual amount of grout injected shall be reported and samples for QA/QC confirmation testing will be logged at predetermined points during injection.

9. The Contractor shall subcontract with an independent testing firm as part of the embedded QA/QC plan. The testing firm will provide oversight to the grout sampling activity and the handling of the samples so that the quality of the confirmation sample is not compromised. Three (3) copies of the QA/QC plan and testing reports on DVD will be submitted in the final as-built submittal.

3.04 COMPLETION OF WORK AND SITE RESTORATION

A. Ends of Renewed Conduit:

1. The ends of the PVC profile material shall be securely fastened and grouted in position per the Manufacturer/Supplier's recommendations. The PVC profile material shall be sealed to the host pipe with approved material capable of achieving a watertight seal and compatible with the lining materials and in compliance with the 50-year service life requirements.

2. The step in the flow line at the ends of the renewed conduit shall be tapered into the existing flow line using approved materials per #1.

3. The areas where new PVC lining material abuts existing PVC lining material is to be leveled with the surrounding area with a compatible material that is approved by the Engineer for that purpose. The resultant surfaces are to be a smooth and even transition throughout the conduit.

B. Any holes made in the PVC profile material during the grouting or installation operation shall be sealed with a material compatible with the lining material recommended by the Manufacturer/Supplier. They must maintain the warranty and be approved by the Engineer.

C. At points where temporary excavation was required for access to the host pipe or lateral connections, appropriate repairs and encasement shall be provided for the PVC profile material and/or connecting pipe connections. Encasement materials may consist of concrete, epoxy grout or other suitable materials as approved by the Engineer for the anticipated service.

D. Final Inspection and Acceptance:

1. After the installation of the liner and the completion of all grouting, lateral reinstatement and repair and manhole rehabilitation, the liner shall be visually inspected by the QA/QC manager, the Contractor's superintendent and the Engineer. It will be video recorded where lateral connections have been damaged or where there are other deficiencies caused by the grouting operations, the damaged section of the liner, lateral connection or manhole shall be corrected at no additional cost to the Owner. These repairs will be in accordance with the Manufacturer/Supplier's recommendations and will be warrantable.

2. The grouted in-place, PVC profile lining in the renewed conduit shall be continuous over the entire length of an installation run and be free from defects such as foreign inclusions, holes, cuts, tears, bulges, restrictions and grout voids. The renewed conduit shall be impervious against leakage out of the conduit to the surrounding ground or into the conduit from the surrounding ground.

3. In sections where the new PVC profile material abuts the existing PVC profile lining, the sections are to be smoothly transitioned. This must be inspected and certified by the Manufacturer/Supplier as warrantable and in keeping with the 50-year utility service life renewal program.

4. Any defect in the lining installation that will or potentially could affect the structural integrity or performance of the renewed conduit shall be repaired at the Contractor's expense using means and methods approved by the Engineer and the Manufacturer/Supplier providing the warranty.

****END OF SECTION 02546****

Attachment No. 3

Drawings

BID DOCUMENT
FOR
FC-7902

PEACHTREE CREEK TRUNK STABILIZATION

CITY OF ATLANTA
OFFICE OF LINEAR INFRASTRUCTURE OPERATIONS

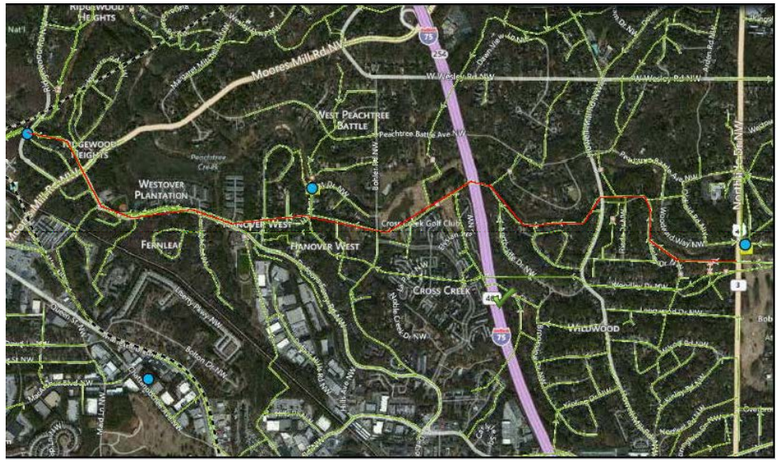
KASIM REED, MAYOR
CITY OF ATLANTA

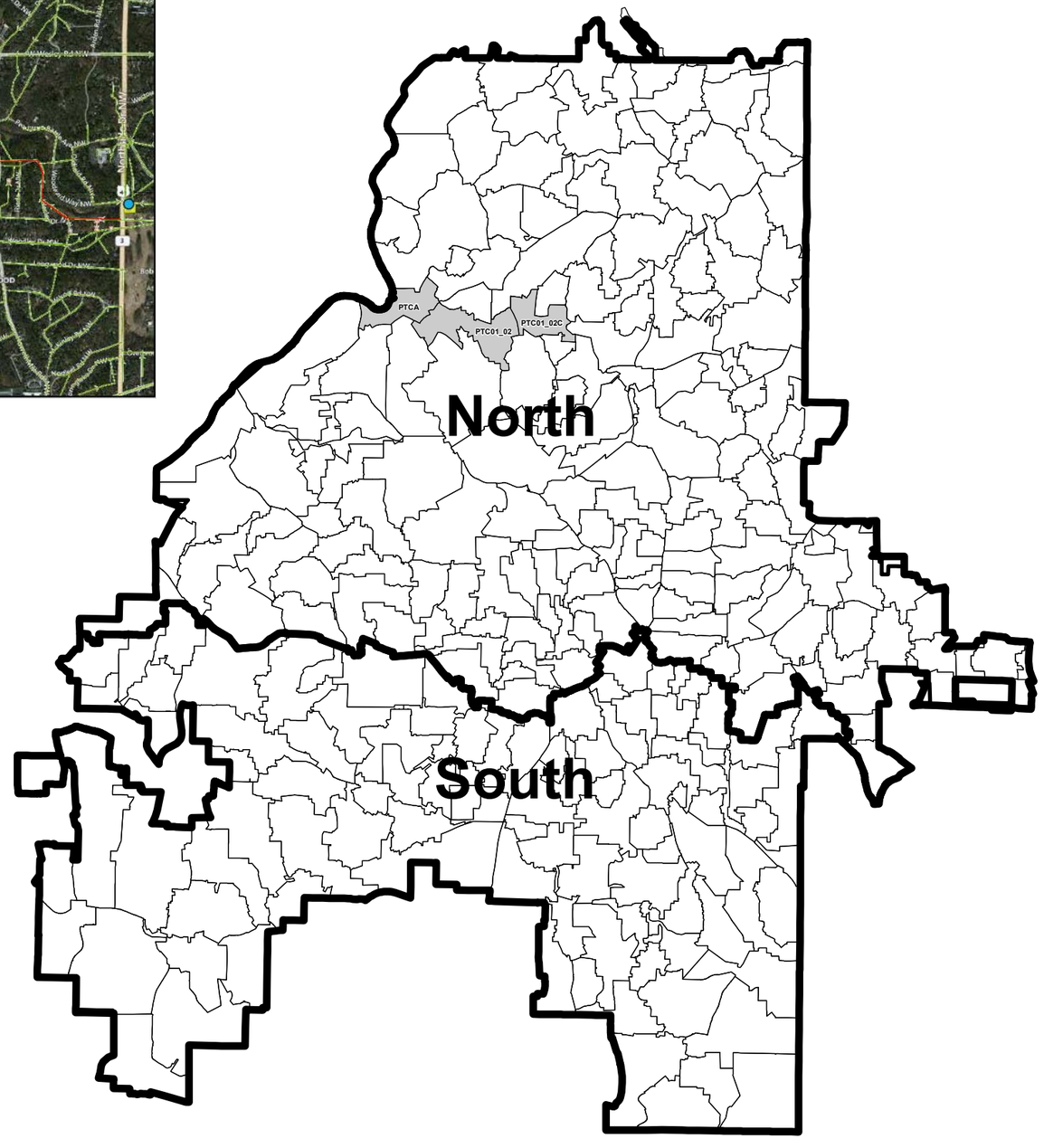
JOANN J. MACRINA, P.E., COMMISSIONER
DEPARTMENT OF WATERSHED MANAGEMENT

ADAM L. SMITH, ESQ., CPPB, CHIEF PROCUREMENT OFFICER
DEPARTMENT OF PROCUREMENT

PEACHTREE CREEK TRUNK STABILIZATION CONTRACT

SHEET NO.	DESCRIPTION	SEWERSHED
G-1	COVER SHEET	
G-2	LIST OF DRAWINGS	
G-3	KEY MAP	
G-4	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	
GC-1	SUPPLEMENTAL DETAILS - 1	
GC-2	SUPPLEMENTAL DETAILS - 2	
GC-3	SUPPLEMENTAL DETAILS - 3	
GC-4	SUPPLEMENTAL DETAILS - 4	
GC-5	SUPPLEMENTAL DETAILS - 5	
GC-6	SUPPLEMENTAL DETAILS - 6	
EC-1	EROSION CONTROL NOTES	
EC-2	EROSION CONTROL DETAILS	
LP-1	LANDSCAPE AND TREE PROTECTION DETAILS	
ALL PLAN SHEETS	PEACHTREE CREEK TRUNK STABILIZATION CONSTRUCTION SEQUENCE	PTCA, PTC01_02, and PTC01_02C
1 of 1	PHASING & STAGING PLANS	
2319_03_C	SEWERSHED REHABILITATION PLAN	PTCA and PTC01_02
2319_03_D	SEWERSHED REHABILITATION PLAN	PTCA and PTC01_02
2319_04_C	SEWERSHED REHABILITATION PLAN	PTCA and PTC01_02
2319_04_D	SEWERSHED REHABILITATION PLAN	PTCA and PTC01_02
2329_03_C	SEWERSHED REHABILITATION PLAN	PTC01_02C
2328_01_A	SEWERSHED REHABILITATION PLAN	PTC01_02C
2328_01_B	SEWERSHED REHABILITATION PLAN	PTC01_02C
1 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTCA and PTC01_02
2 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTCA and PTC01_02
3 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTCA and PTC01_02
4 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTCA and PTC01_02
5 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTC01_02C
6 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTC01_02C
7 of 7	SEWERSHED REHABILITATION PIPELINE WORK TABLE	PTC01_02C
1 of 2	SEWERSHED REHABILITATION MANHOLE WORK TABLE	PTCA and PTC01_02
2 of 2	MANHOLE DATA	PTCA and PTC01_02
2319_03_C	EASEMENT AND DISTURBANCE LIMITS	PTCA and PTC01_02
2319_03_D	EASEMENT AND DISTURBANCE LIMITS	PTCA and PTC01_02
2319_04_C	EASEMENT AND DISTURBANCE LIMITS	PTCA and PTC01_02
2319_04_D	EASEMENT AND DISTURBANCE LIMITS	PTCA and PTC01_02
2329_03_C	EASEMENT AND DISTURBANCE LIMITS	PTC01_02C
2328_01_A	EASEMENT AND DISTURBANCE LIMITS	PTC01_02C
2328_01_B	EASEMENT AND DISTURBANCE LIMITS	PTC01_02C
1 of 1	EASEMENT LIMITS	ALL





SEWERSHED
PTCA
PTC01_02
PTC01_02C

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REV	DATE	BY	DESCRIPTION

Scale
N.T.S.

This document originally issued and sealed by Thomas Corbin, 14380, on 08/06/2015.

This medium shall not be considered a certified document.

CITY OF ATLANTA

Peachtree Creek Trunk Stabilization

KEY MAP

SHEET
G - 3

GENERAL NOTES

1. OWNER: CITY OF ATLANTA, DEPARTMENT OF WATERSHED MANAGEMENT
   72 MARIETTA STREET
   ATLANTA, GEORGIA 30303
   PHONE: (404) 330-6240
2. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE CITY OF ATLANTA STANDARD SPECIFICATIONS. IN THE CASE OF CONFLICTS, THE PROJECT SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL OBTAIN AND USE ALL APPLICABLE ADDENDA.
3. ALL ITEMS WHICH MUST BE REMOVED DURING CONSTRUCTION, AND ARE NOT SPECIFICALLY SHOWN TO BE PAID FOR OTHERWISE, SHALL BE REMOVED AND PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO ALL THE REQUIREMENTS OF THE SPECIFICATIONS AS THEY RELATE TO COOPERATION WITH THE UTILITY OWNERS AND THE UTILITY LOCATIONS THAT EXIST ON THE SITE. CONTRACTOR MUST ALSO COMPLY WITH ALL DOT, RR, AND UTILITY COMPANY'S REQUIREMENTS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH ANY WORK TO BE PERFORMED BY THE UTILITY OWNERS OR OTHERS IN ANY RIGHT-OF-WAY CLEARANCE AND ARRANGE A SCHEDULE OF OPERATIONS THAT WILL ALLOW FOR THE COMPLETION OF THE PROJECT WITHOUT ANY UNDUE DELAY. CONTRACTOR TO NOTIFY UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK, TELEPHONE NUMBER (770)623-4344 OR 1-800-282-7411.
6. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY DELAY OR DAMAGE CAUSED BY UTILITY FACILITIES, OBSTRUCTION, OR ANY OTHER ITEM NOT BEING REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.
7. NOT USED.
8. CONSTRUCTION DEWATERING ACTIVITIES SHALL STRICTLY CONFORM TO THE PROVISIONS AND REQUIREMENTS OF SPECIFICATION SECTION 02205.
9. DRAINAGE SYSTEMS (SEWERS, CULVERTS, ETC.) WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. WHERE A DRAINAGE STRUCTURE IS DAMAGED FROM HIS WORK, THE CONTRACTOR WILL NOT BE COMPENSATED FOR PERFORMING REPAIRS.
10. ALL DISTURBED UNPAVED AREAS SHALL BE LANDSCAPED AS DESCRIBED IN SPECIFICATION SECTION 02930.
11. ALL CONCRETE SIDEWALK, CURB, AND CONCRETE APPROACH RAMP WHICH ARE REQUIRED TO BE REMOVED TO PERMIT INSTALLATION OF PIPE SHALL BE NEATLY SAW CUT AND RESTORED TO MATCH EXISTING STRUCTURES AND GRADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES, UTILITIES, FENCES, SHRUBBERY, AND RETAINING WALLS WHICH ARE NOT TO BE DISTURBED DURING CONSTRUCTION.
13. COSTS ASSOCIATED WITH CONTRACTOR STORAGE, LAY-DOWN, AND PARKING AREAS SHALL BE INCLUDED IN THE RATES FOR WORK.
14. ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR UNLESS OTHERWISE SPECIFIED OR INDICATED.
15. REMOVAL AND RESETTING OF ANY TYPE OF FENCES, HANDRAILS, OR GUARDRAILS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. THE COST SHALL BE INCLUDED IN THE RATES FOR WORK. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
16. ALL EXCESS MATERIALS WILL BE HAULED OFF BY THE CONTRACTOR SO AS TO RESTORE THE ORIGINAL CONDITION OF THE SITE. SPREADING EXCESS MATERIALS AT THE JOB SITE IS NOT PERMITTED.
17. PAINTING AND COATING WILL NOT BE MEASURED FOR SEPARATE PAYMENT. COST OF PAINTING AND COATING IS TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
18. CONTRACTOR'S TRAFFIC CONTROL PLAN MUST BE APPROVED BY AUTHORITY HAVING JURISDICTION BEFORE WORK BEGINS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RAISING ALL UTILITY CASTINGS SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC. PRIOR TO ANY PAVING. THE COVERS SHALL BE FLUSH WITH THE PROPOSED FINISH GRADE AND THE COVERS SHALL BE TILTED AS NECESSARY WITH INCLINED SURFACES TO BE FLUSH WITH THE PROPOSED FINISH GRADE IN ALL DIRECTIONS.
20. ALL LANDSCAPING AND RESTORATION WORK SHALL BE DONE TO THE FULL SATISFACTION OF THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY UTILITIES NEEDED FOR CONSTRUCTION.
22. EROSION AND SEDIMENT CONTROL PROCEDURES SHALL BE FOLLOWED IN A MANNER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT LEAVING THE SITE. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME DURING CONSTRUCTION (SEE EROSION CONTROL NOTES ON SHEET EC-1).
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND THE REPAIR OF ANY EXISTING SEWER SERVICE CONNECTIONS.
24. POWER POLES ALONG ROUTES OF CONSTRUCTION ARE TO BE SUPPORTED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH RESPONSIBLE UTILITY COMPANIES.
25. PLASTIC SAFETY FENCE SHALL BE INSTALLED AT EDGES OF ALL CONSTRUCTION AERAS.
26. EXCEPT AS NOTED ON BID FORM, THE COST TO PROVIDE ALL TRAFFIC CONTROL ACTIVITIES SHALL BE INCLUDED IN THE RATES OF WORK.
27. ALL ROADWAY AND DRIVEWAY CUTS AND REPAIRS SHALL BE PER DETAILS ON SHEET GC-2.
28. ROUTE CLEARING OPERATIONS SHALL BEGIN NO MORE THAN 7 DAYS BEFORE BEGINNING CONSTRUCTION WORK ON ANY AREA.
29. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES WHERE ENCOUNTERED. METHOD OF SUPPORT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WHERE PIPE SEPARATION IS LESS THAN 12-INCHES. PERMANENT SUPPORT SHALL BE PROVIDED PER DETAIL 11 ON GC-2.

ADDITIONAL CONSTRUCTION NOTES

1. CONSTRUCTION ACTIVITIES MUST CONFORM TO CITY OF ATLANTA'S STANDARDS AND SPECIFICATIONS.
2. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREAS.
3. NOT USED
4. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DENSITY UNLESS OTHERWISE SPECIFIED OR INDICATED. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE.
5. FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.
6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAY BANKS, PROTECTION AND STABILIZATION AS SHOWN ON DRAWING EC-2 SHALL BE REQUIRED.
7. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND/OR CITY OF ATLANTA INSPECTOR.
8. IF APPLICABLE, COMPLY WITH TRAFFIC CONTROL REQUIREMENTS AS FOLLOWS, SEE SPECIFICATION SECTION 01550:
   A. SIGNING. STRIPING, MARKING, AND HIGH LEVEL WARNING DEVICES TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE CITY OF ATLANTA TRAFFIC ENGINEER AND/OR INSPECTOR. THIS TRAFFIC CONTROL PLAN IS SUBJECT TO CHANGE BY THE ENGINEER.
   B. WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
   C. ALL WARNING DEVICES SHALL INCLUDE WARNING LIGHTS ON EVERY OTHER DEVICE, AND SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND CITY OF ATLANTA FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
   D. SPACING OF WARNING DEVICES IN FEET SHALL BE EQUAL TO THE POSTED SPEED OF THE ROAD IN MPH. (i.e., 30 FOOT SPACING FOR 30 MPH SPEED LIMIT)
   E. ALL SIGNS SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND CITY OF ATLANTA FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
   F. STRIPING (WHITE & YELLOW) AND ARROW MARKINGS SHALL BE APPLIED USING CITY OF ATLANTA OR GEORGIA DOT STANDARD THERMOPLASTIC.
   G. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY THE CITY OF ATLANTA TRAFFIC ENGINEER.
   H. ALL SIGNS MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
   I. CONTACT THE CITY OF ATLANTA TRAFFIC ENGINEER (404-330-6501) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.
   J. COORDINATE ROAD CLOSINGS OR DETOURS WITH GEORGIA DOT OR DEPARTMENT OF PUBLIC WORKS TRAFFIC SECTION, AND ANY CITY OF ATLANTA OR OTHER EMERGENCY SERVICES THAT ARE REQUIRED.
9. CONTRACTOR SHALL ONLY USE PERPENDICULAR CROSSINGS AT STREAMS AND CREEKS UNLESS AN ENCROACHMENT HAS BEEN INDICATED ON PLANS.
10. CONTRACTOR SHALL NOT CLEAR BEYOND CONSTRUCTION LIMITS SPECIFIED.
11. AREAS DISTURBED DURING CONSTRUCTION THAT WILL RECEIVE NORMAL RUNOFF AND STREAM WATER RELATED FLOWS SHALL BE RIP-RAPPED OR OTHERWISE STABILIZED AS DIRECTED BY ENGINEER.
12. THE ISSUANCE OF A LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRATE OPERATIONS FOR THIS CONSTRUCTION ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING, HAVE BEEN MET. THE ONUS IS ON THE CONTRACTOR TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE IN AN APPROPRATE MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, POLICIES, STANDARDS, OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

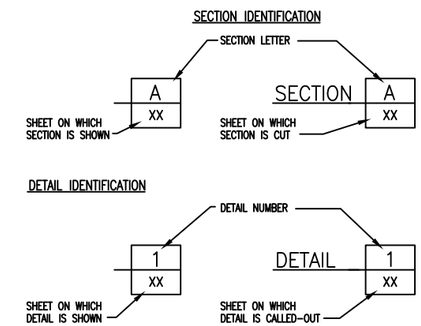
MANHOLE NOTES

1. BEFORE ORDERING NEW MANHOLES CONTRACTOR SHALL PERFORM A SURVEY ON EXISTING MANHOLES. CONTRACTOR SHALL PREPARE AN INVENTORY FROM THIS SURVEY SHOWING ALL COMPONENTS OF EXISTING MANHOLES INCLUDING DIMENSIONS AND SIZES. THIS INVENTORY SHALL BE THE BASIS FROM WHICH THE CONTRACTOR WILL ORDER MATERIAL. THE INVENTORY AND MATERIAL SCHEDULE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER THE CORRECT MATERIAL SIZES AND LENGTHS AND NOT THE ENGINEER.
2. CONTRACTOR SHALL SELECT MANHOLE RISER AND BASES THAT MATCH THE EXISTING CONES SO JOINTS SEAL PROPERLY.

FLOWMETER NOTES

1. SEVERAL FLOW METERS ARE INSTALLED IN MANHOLES WHERE CONSTRUCTION WORK WILL BE DONE. WHEN THE CONTRACTOR ENCOUNTERS FLOW METERS WHERE HE IS REQUIRED TO DO WORK, HE WILL NOTIFY THE ENGINEER AT LEAST TWO DAYS PRIOR TO REQUIRING THE METER TO BE REMOVED. REMOVAL WILL BE DONE BY OTHERS. CONTRACTOR WILL NOT ATTEMPT REMOVAL OF FLOW METERS.

SYMBOLS



STANDARD ABBREVIATIONS

APPROX.	APPROXIMATE	LF	LINEAR FOOT
ASPH	ASPHALT		
AVE	AVENUE	MAX	MAXIMUM
		MH	MANHOLE
BLDG	BUILDING	MIN	MINIMUM
CB	CATCH BASIN	N	NORTH
CI	CAST IRON	NTS	NOT TO SCALE
CL	CENTER LINE		
CONC	CONCRETE	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CP	CONCRETE PIPE		
CULV	CULVERT	PP	POWER POLE
		PVC	POLYVINYL CHLORIDE
DET	DETAIL		
DI	DUCTILE IRON	R/W	RIGHT OF WAY
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RD	ROAD
DMH	DROP MANHOLE	RR	RAILROAD
DWG	DRAWING		
		SPEC	SPECIFICATION
E	EAST	STA	STATION
EA	EACH	SR	STREAM CROSSING
EL or ELEV	ELEVATION		
EOP	EDGE OF PAVEMENT		
EXIST	EXISTING	TYP	TYPICAL
FH	FIRE HYDRANT	UG	UNDERGROUND
GPS	GROUND POSITIONING SYSTEM	VCP	VITRIFIED CLAY PIPE
		VF	VERTICAL FOOT
HDPE	HIGH DENSITY POLYETHYLENE		
HW	HEAD WALL	WD	WOOD
ID	INSIDE DIAMETER		
INV	INVERT		
IPF	IRON PIN FOUND		

PIPELINE INSTALLATION AND BEDDING NOTES

1. NOT USED.

WETLAND PRESERVATION NOTES

1. CONTRACTOR SHALL MINIMIZE CLEARED AREA WITHIN WETLAND.
2. CONTRACTOR MUST RETURN ALL WORK AREAS TO PRE CONSTRUCTION CONTOURS. EXCESS MATERIAL MUST BE REMOVED UPON COMPLETION OF WORK.
3. ANY EXPOSED SLOPES AND STREAM BANKS MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF PIPELINE(S).

GROUTED PVC PROFILE LINING SYSTEM NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED SEWER SERVICES BY USING BYPASS PUMPING, TANKERING, FLOW DIVERSION OR OTHER APPLICABLE METHODS APPROVED BY THE ENGINEER SUCH THAT SPILLAGES/OVERFLOWS DO NOT OCCUR.
2. CONTRACTOR SHALL RESTRICT ALL GROUTED PVC LINER CONSTRUCTION & CONSTRUCTION RELATED ACTIVITIES WITHIN EASEMENTS, RIGHT OF WAY OR TEMPORARY WORKING AREAS CONTRACTOR HAS LEGALLY OBTAINED.
3. CONTRACTOR SHALL MINIMIZE DAMAGE TO TREES, LANDSCAPE AND ALL OTHER SIMILAR FEATURES.
4. CONTRACTOR IS RESPONSIBLE FOR RECTIFING ALL OR ANY DAMAGE CREATED BY CIPP RELATED CONSTRUCTION ACTIVITIES DUE TO CONTRACTOR NEGLIGENCE.
5. NOT USED.
6. CONTRACTOR SHALL CONFIRM POSITION OF MAINLINES AND SERVICE CONNECTIONS TO SEWER RELATIVE TO BUILDINGS.
7. CONTRACTOR SHALL CONFIRM LOCATION OF BUILDING SEWER BY DYE OR SMOKE TESTING SERVICE CONNECTIONS AND/OR MAIN SEWER. CONTRACTOR MAY BE REQUIRED AND SHALL ALLOW FOR COORDINATION WITH DYE OR SMOKE TESTING SERVICES PERFORMED BY SEPARATE CONTRACTOR TO THE CITY.
8. WHERE PIPELINES ARE UNDER OR LOCATED CLOSE TO BUILDINGS OR OTHER STRUCTURES, INCLUDING BUT NOT LIMITED TO SWIMMING POOLS, GROUTED PVC LINER ACTIVITIES WILL ONLY BE ALLOWED TO PROCEED FOLLOWING SPECIFIC APPROVAL BY THE ENGINEER.

SURVEYING NOTES

1. CONTRACTOR IS TO MAKE EVERY EFFORT TO PRESERVE ANY SURVEY MONUMENTS OR BENCH MARKS WHICH EXIST ON THE PROJECT AT THE TIME OF CONTRACT AWARD. THE CONTRACTOR SHALL FURNISH PERSONNEL FULLY QUALIFIED AND CAPABLE OF STAKING THE PROPOSED PIPELINE ALIGNMENT SHOWN ON THE DRAWINGS. ANY SURVEY MARKERS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY A QUALIFIED SURVEYOR WITH ALL COST OF RESTORATION BORNE BY THE CONTRACTOR.
2. PROPERTY LINE LOCATIONS ARE APPROXIMATE AND LAND OWNERS TAKEN FROM CITY OF ATLANTA RECORDS.

REV	DATE	BY	DESCRIPTION

SCALE: N.T.S.

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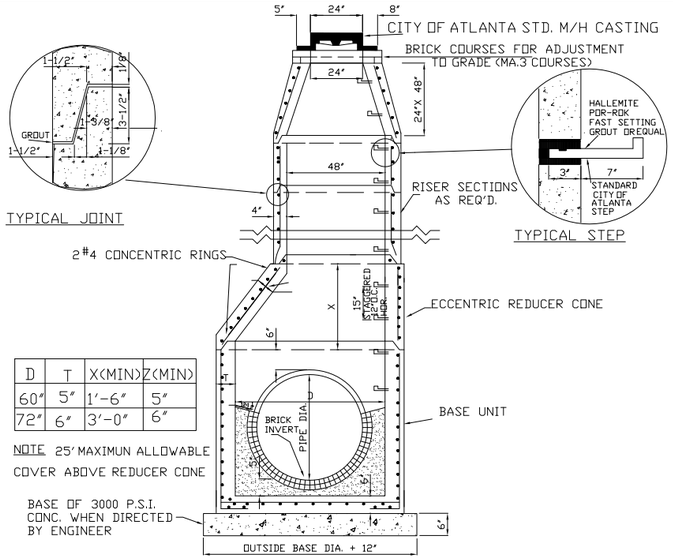
CLEAN WATER ATLANTA — working water, stormwater, wastewater

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABLIZATION

GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET G-4



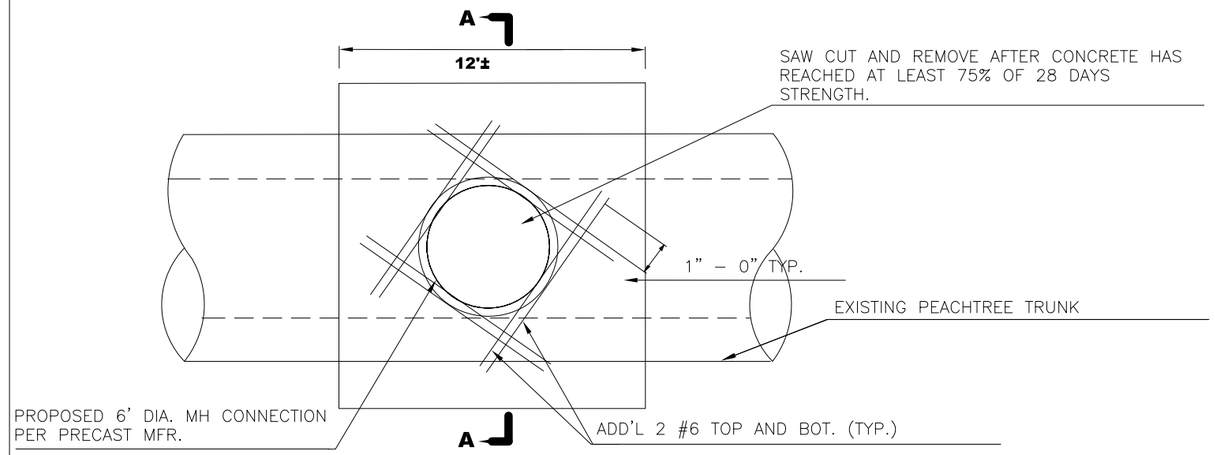
D	T	X(MIN)	Z(MIN)
60"	5"	1'-6"	5"
72"	6"	3'-0"	6"

NOTE 25' MAXIMUN ALLOWABLE COVER ABOVE REDUCER CONE

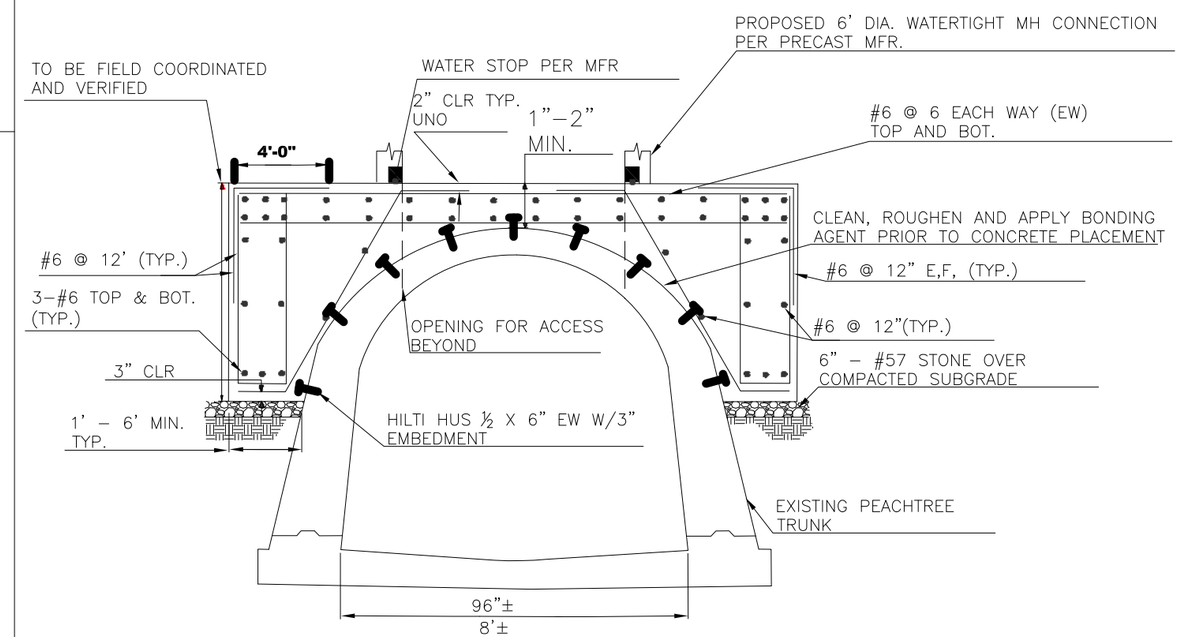
SECTION DETAIL

STANDARD PRECAST MANHOLE 1 / GC-1
N.T.S.

NOTE: PLACEMENT & DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C478 UNLESS OTHERWISE NOTED.

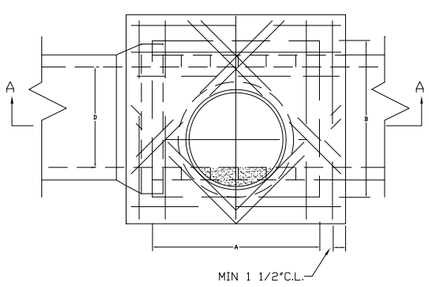


PLAN VIEW
N.T.S.

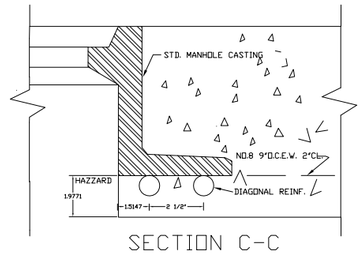


SECTION A-A
N.T.S.

BASE FOR ACCESS MANHOLE 3 / GC-1
N.T.S.

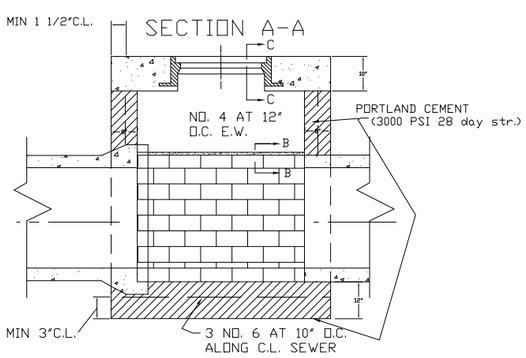


D	A	B
8"-24"	4'	3'-6"
30"	"	3'-10"
36"	"	4'-4"
42"	"	5'-0"
48"	"	5'-8"
54"	"	6'-1"
60"	"	6'-8"
72"	"	8'-0"
78"	"	8'-8"

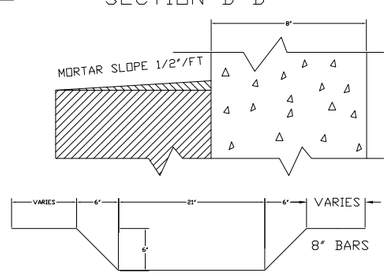


SECTION C-C

SECTION B-B



SECTION A-A



DIAGONAL REINF.

STANDARD SHALLOW MANHOLE FOR NON-VEHICULAR TRAFFIC 2 / GC-1
NTS

REV	DATE	BY	DESCRIPTION
3	6-6-12	EW	REVISED ALL DETAILS
2	2-9-09	EW	REVISED DETAILS 3-6
1	1-27-09	EW	MODIFIED DETAIL 5

SCALE N.T.S.

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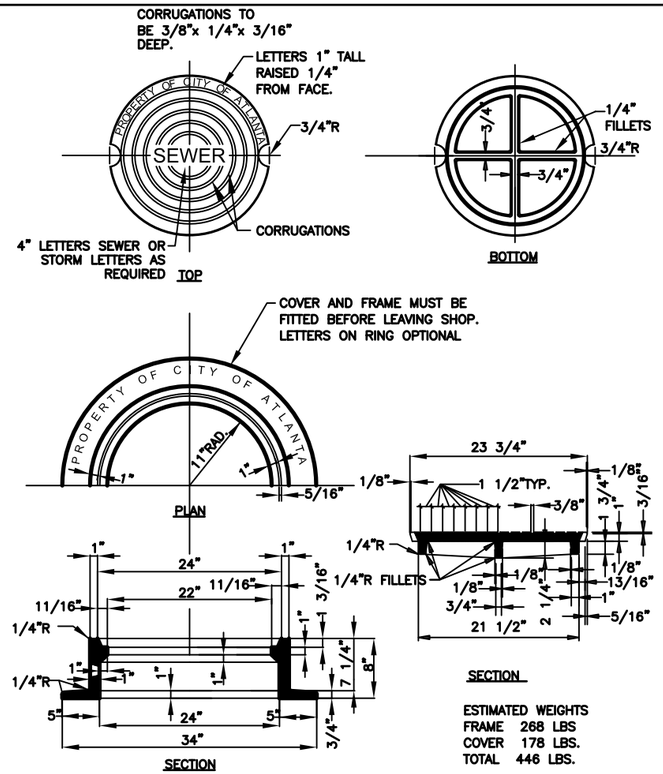
CLEAN WATER ATLANTA

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

SUPPLEMENTAL DETAILS – 1

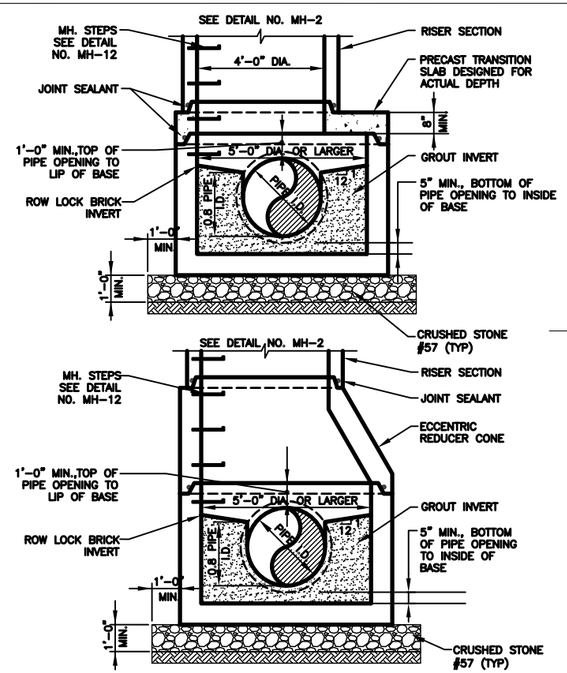
SHEET GC-1



SOLID FRAME AND COVER

N.T.S.

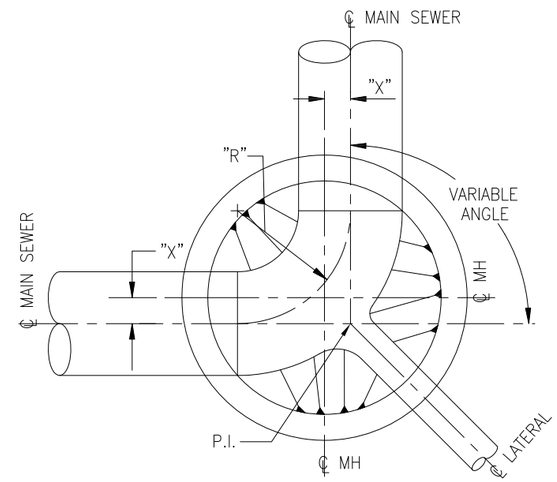
5
GC-2



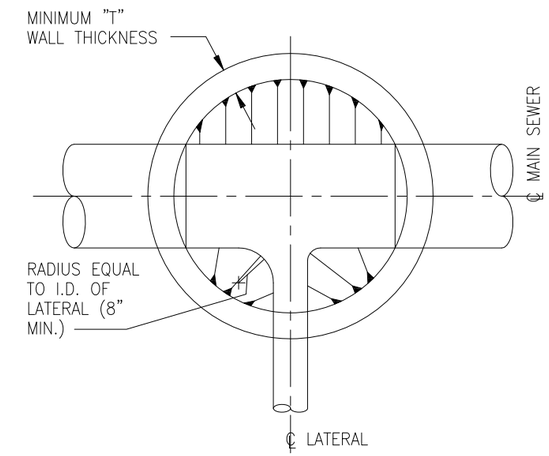
LARGE DIAMETER MANHOLE BASE

N.T.S.

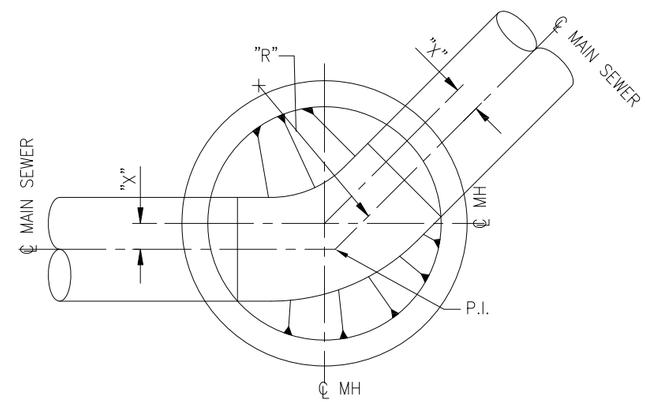
6
GC-2



90° ANGLE



STRAIGHT THROUGH



45° ANGLE

STANDARD MANHOLE DIMENSIONS

PIPE SIZE	ANGLE	BASE DIA.	"T"	"X"
8" TO 15"	0° TO 90°	4'-0"	5"	0"
18" TO 24"	0° TO 60°	4'-0"	5"	0"
18" TO 24"	60° TO 90°	5'-0"	6"	6"
27" TO 30"	0° TO 30°	5'-0"	6"	0"
27" TO 30"	30° TO 60°	5'-0"	6"	6"
27" TO 30"	60° TO 90°	6'-0"	7"	8"

"R" (MIN. ℄ RADIUS) = 1.5 x PIPE DIAMETER

TYPICAL MANHOLE INVERT PLANS

N.T.S.

7
GC-2

REV	DATE	BY	DESCRIPTION
3	6-6-12	EW	REVISED ALL DETAILS
2	2-9-09	EW	REVISED DETAILS 3-6
1	1-27-09	EW	MODIFIED DETAIL 5

SCALE N.T.S.

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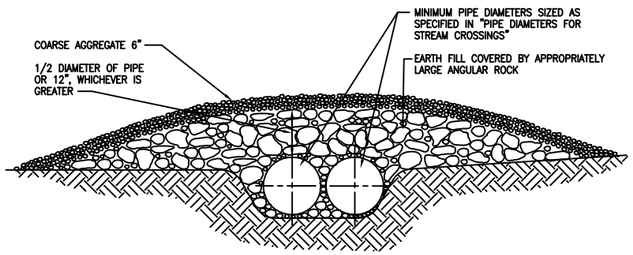
CLEAN WATER ATLANTA

CITY OF ATLANTA

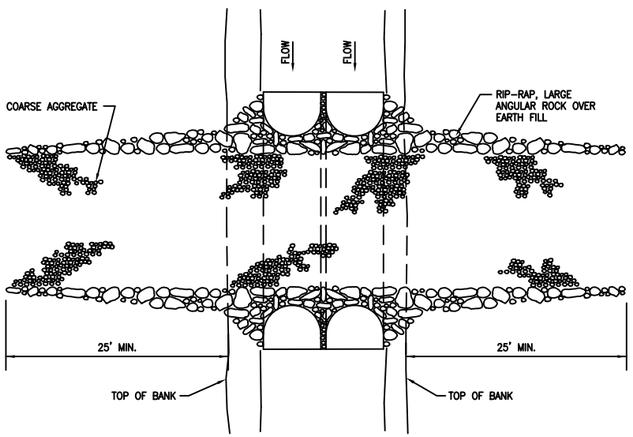
PEACHTREE CREEK TRUNK STABILIZATION

SUPPLEMENTAL DETAILS - 2

SHEET GC-2



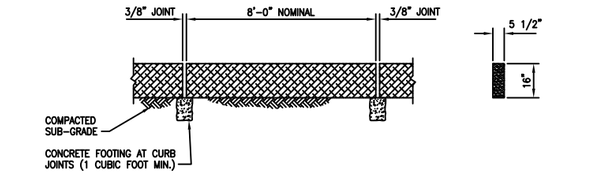
ELEVATION



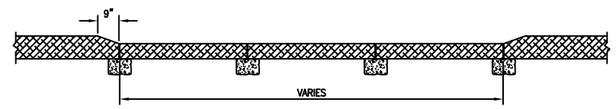
PLAN

(Sr) TYPICAL TEMPORARY STREAM CROSSING — 8 / GC-3

NTS



GRANITE CURB DETAIL



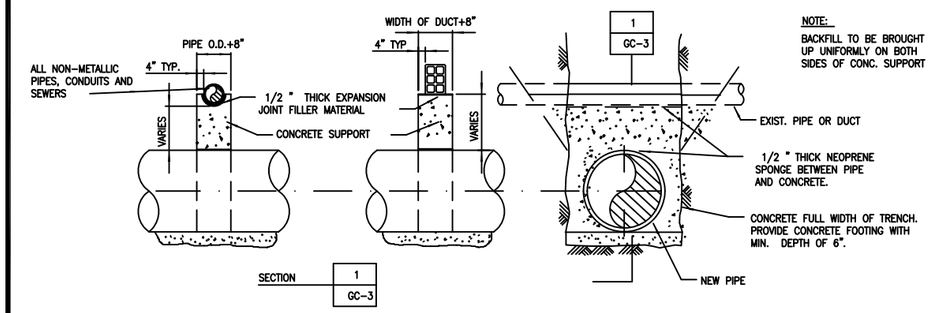
GRANITE CURB DETAIL AT DRIVEWAY

NOTE:

1. THIS DETAIL APPLIES TO ALL REPLACEMENT OF GRANITE CURB NECESSARY DUE TO CONTRACTORS CONSTRUCTION ACTIVITIES.

TYPICAL GRANITE CURB DETAILS — 9 / GC-3

N.T.S.



NOTE:

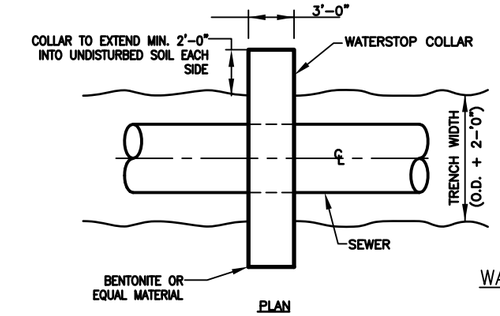
BACKFILL TO BE BROUGHT UP UNIFORMLY ON BOTH SIDES OF CONC. SUPPORT

NOTES:

1. UNDERGROUND UTILITY SUPPORTS ARE TO BE PROVIDED WHEN MINIMUM CLEARANCE OF 12 INCHES CANNOT BE PROVIDED.
2. EXISTING PIPE OR DUCT SHALL BE FIRMLY SUPPORTED DURING INSTALLATION OF NEW PIPE AND SUPPORT.

UNDERGROUND UTILITY SUPPORT — 11 / GC-3

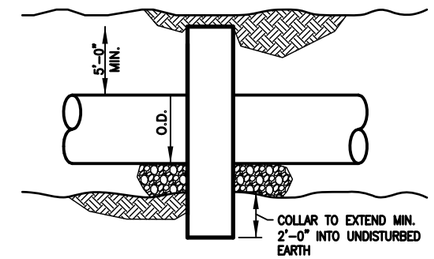
NOT TO SCALE



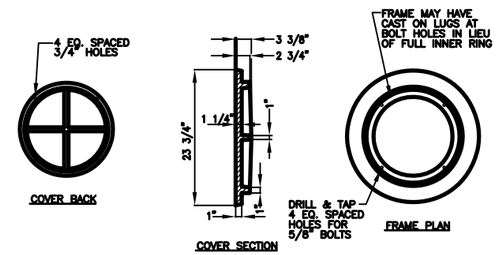
PLAN

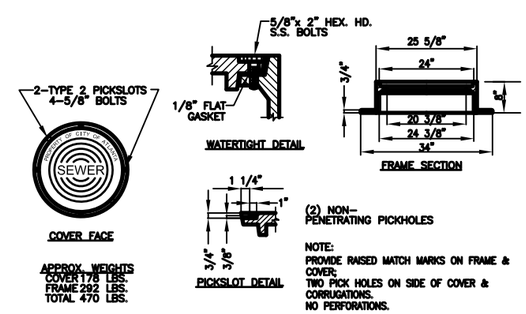
WATERSTOP COLLAR — 10 / GC-3

N.T.S.



ELEVATION



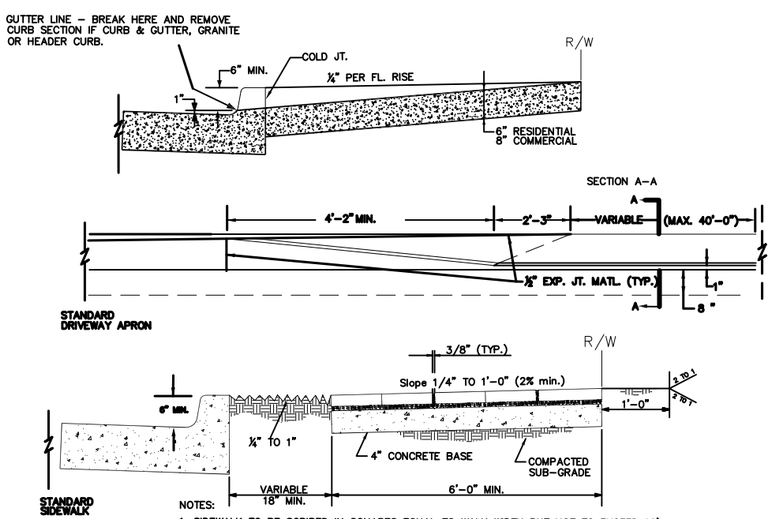


APPROX. WEIGHTS
COVER 178 LBS.
FRAME 292 LBS.
TOTAL 470 LBS.

NOTE:
PROVIDE RAISED MATCH MARKS ON FRAME & COVER.
TWO PICK HOLES ON SIDE OF COVER & CORRUGATIONS.
NO PERFORATIONS.

WATERTIGHT FRAME AND COVER — 14 / GC-3

NOT TO SCALE

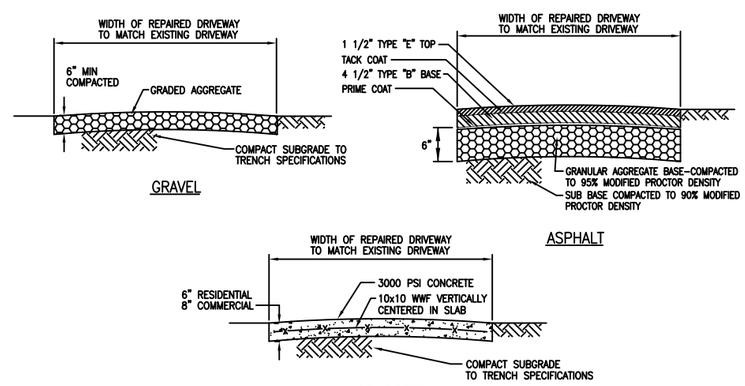


NOTES:

1. SIDEWALK TO BE SCRIBED IN SQUARES EQUAL TO WALK WIDTH BUT NOT TO EXCEED 10'.
2. CONCRETE TO BE 3,000 P.S.I. MIN. DRIVEWAY SECTIONS. USE 3,000 P.S.I. HIGH EARLY.
3. EXPANSION JOINTS ACROSS THE SIDEWALK ON EACH SIDE OF DRIVEWAY AND NOT MORE THAN 100' APART.
4. PREFORMED BITUMINOUS EXPANSION MATERIAL SHALL BE PLACED BETWEEN ALL FIXED OBJECTS (EXCEPT CURB) AND THE NEW CONCRETE SIDEWALK.

TYPICAL DRIVEWAY AND SIDEWALK — 12 / GC-3

N.T.S.



TYPICAL DRIVEWAY REPAIR — 13 / GC-3

N.T.S.

REV	DATE	BY	DESCRIPTION

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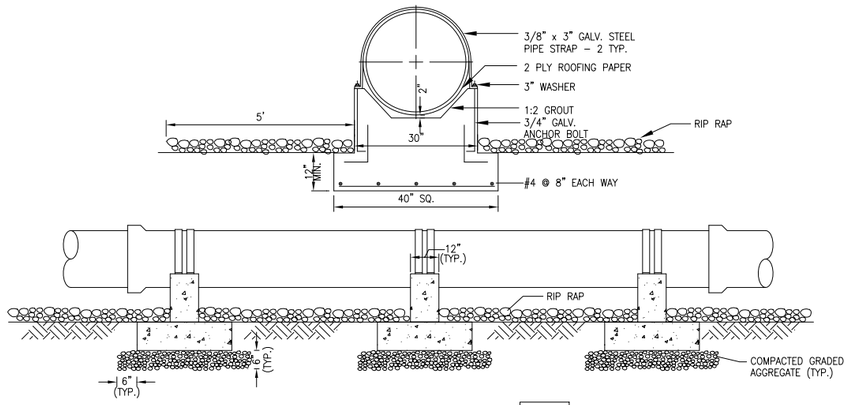
CLEAN WATER ATLANTA

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

SUPPLEMENTAL DETAILS – 3

SHEET GC-3



NOTE:

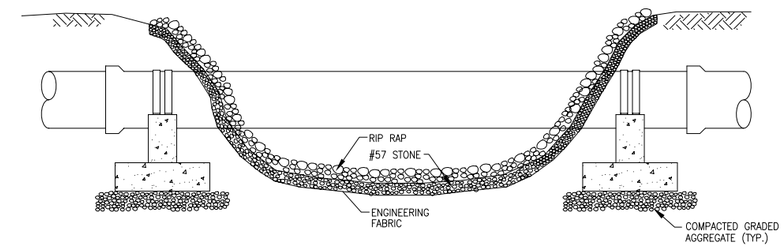
1. CONCRETE PIER SPACING AS REQUIRED FOR PIPE MATERIAL AND DIAMETER.

CONCRETE PIER DETAIL 15 GC-4

NTS

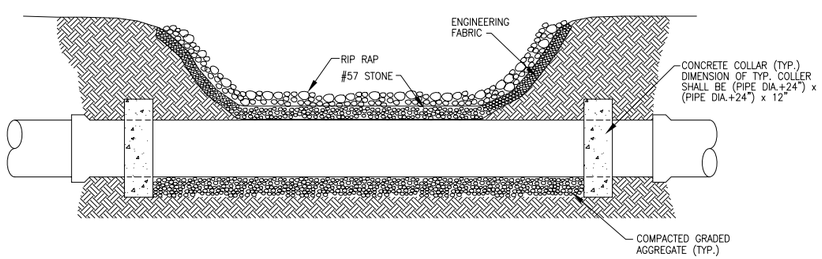
NOTES FOR 19A, B & C:

1. PIPE MATERIAL SHALL BE DIP.
2. JOINTS SHALL NOT BE LOCATED WITHIN SPAN EXPOSED OVER CREEK. PIPE SHALL BE CENTERED SO JOINTS ARE EVENLY SHARED EITHER SIDE OF BANK.
3. RIP RAP SHALL BE APPLIED PER DETAIL.
4. CREEK BOTTOM SHALL BE RESHAPED TO MAXIMIZE FLOW CAPACITY UNDER PIPELINE.



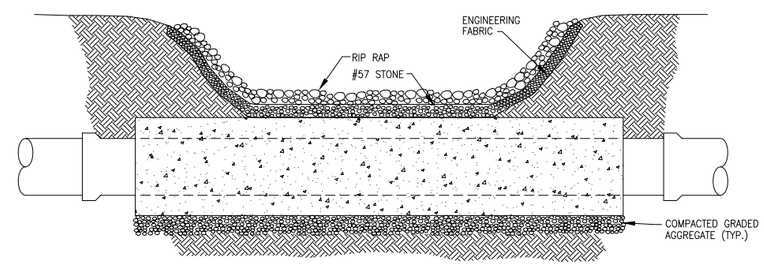
TYPICAL CONCRETE PIER DETAIL FOR AERIAL CREEK CROSSING 16 GC-4

NTS



TYPICAL UNDERGROUND CREEK CROSSING 17 GC-4

NTS



TYPICAL CONCRETE ENCASED PIPE UNDERGROUND CREEK CROSSING 18 GC-4

N.T.S.

REV	DATE	BY	DESCRIPTION
3	2-9-09	EW	MODIFIED 16A, 16B, 20 AND 21.
2	1-27-09	EW	MODIFIED DETAILS 27 AND 28
1	9-8-08	CL	ADDED NOTES FOR DETAIL 20

SCALE

WARNING
0 1/2 1
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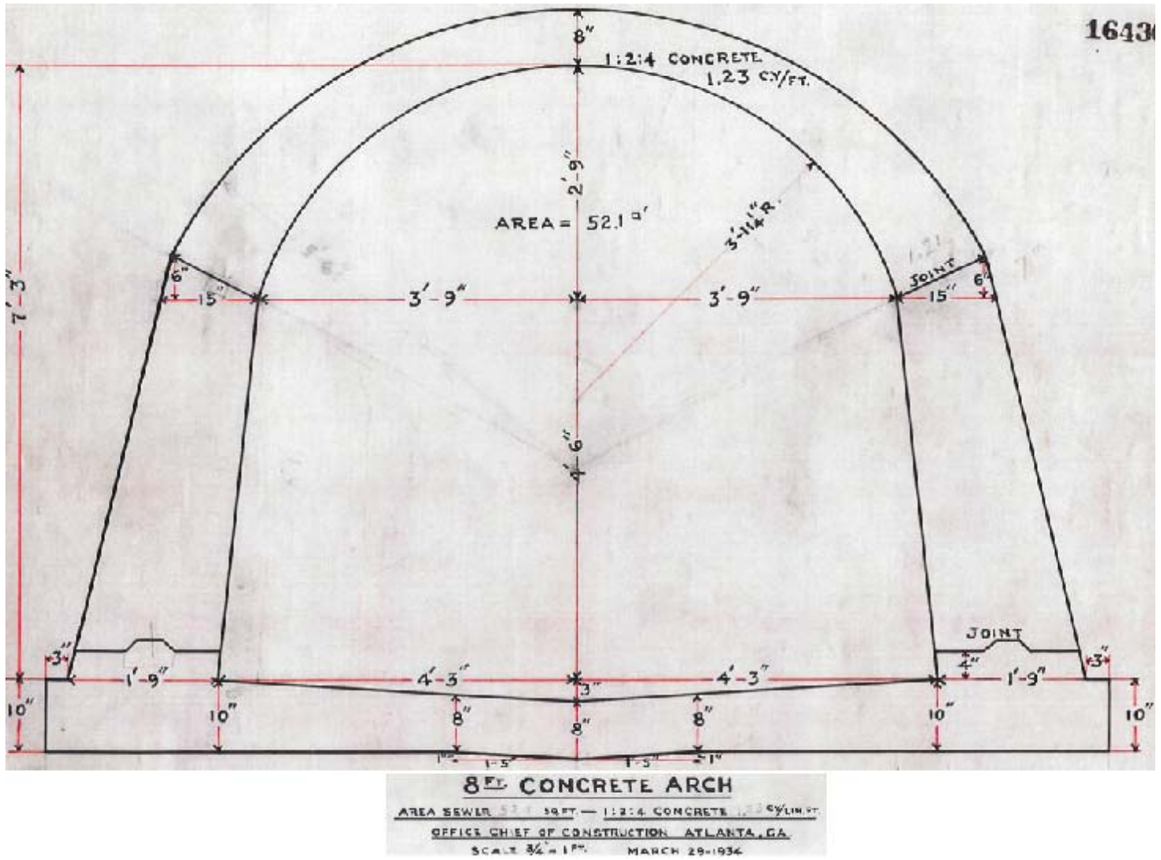
CLEAN WATER ATLANTA
drinking water, stormwater, wastewater

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

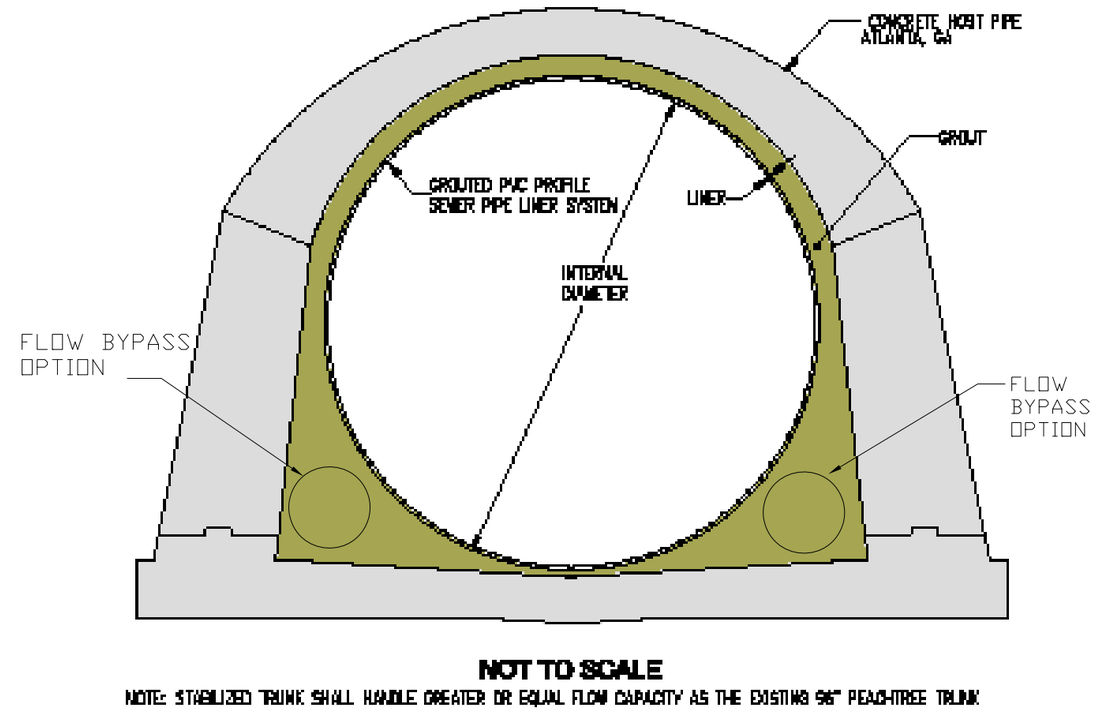
SUPPLEMENTAL DETAILS – 4

SHEET GC-4



CROSS SECTION OF EXISTING SEWER TRUNK 19 / GC-5

NTS



NOT TO SCALE

NOTE: STABILIZED TRUNK SHALL HANDLE GREATER OR EQUAL FLOW CAPACITY AS THE EXISTING 96" PEACHTREE TRUNK

NOTES:

1. REFER TO SPEC SECTION 02546 FOR PROVISIONS AND REQUIREMENTS.

2. POTENTIAL FLOW BYPASS OPTION USING PIPES AND/OR OTHER DIVERSION OR PUMPING METHODS. THE CONTRACTOR SHALL PREPARE A BYPASS PUMPING/FLOW DIVERSION PLAN FOR SUBMITTAL AND REVIEW BY THE ENGINEER AND OWNER IN ACCORDANCE WITH SPECIFICATION SECTION 02750 WASTERWATER FLOW CONTROL.

CROSS SECTION OF STABILIZED SEWER TRUNK 20 / GC-5

NTS

REV	DATE	BY	DESCRIPTION
3	2-9-09	EW	MODIFIED 16A, 16B, 20 AND 21.
2	1-27-09	EW	MODIFIED DETAILS 27 AND 28
1	9-8-08	CL	ADDED NOTES FOR DETAIL 20

SCALE

WARNING 0 1/2 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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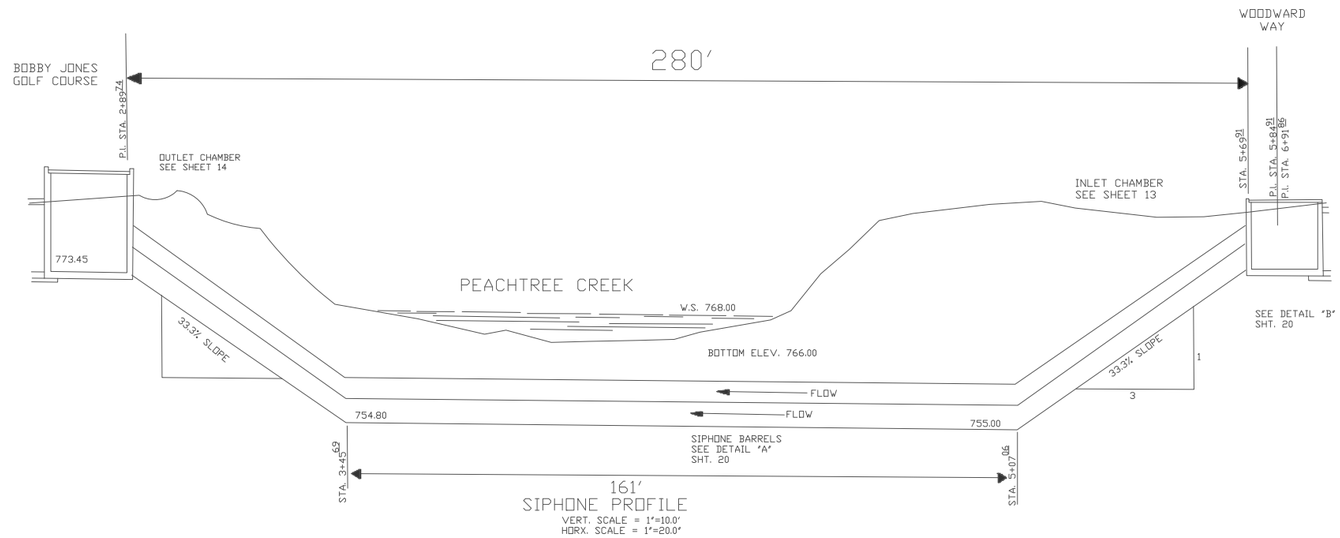
CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

SUPPLEMENTAL DETAILS – 5

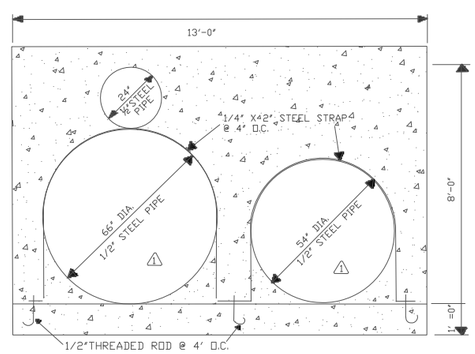
SHEET GC-5



PEACHTREE CREEK SEWER
WOODWARD WAY SIPHON PROFILE

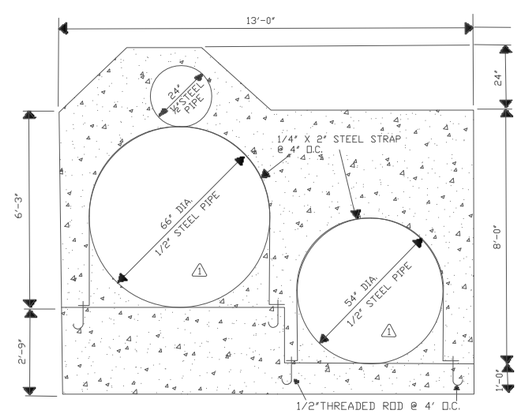
NTS

21
GC-6



SIPHON DETAIL "A" (IN CREEK)

SCALE : 3/8" = 1'-0"



SIPHON DETAIL "B"

SCALE : 3/8" = 1'-0"

SIPHON DETAIL "A" AND "B"

NTS

22
GC-6

REV	DATE	BY	DESCRIPTION
3	2-9-09	EW	MODIFIED 16A, 16B, 20 AND 21.
2	1-27-09	EW	MODIFIED DETAILS 27 AND 28
1	9-8-08	CL	ADDED NOTES FOR DETAIL 20

SCALE

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED
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CLEAN WATER ATLANTA
drinking water, stormwater, wastewater

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

SUPPLEMENTAL DETAILS – 6

SHEET
GC-6

EROSION CONTROL NOTES

1. TYPE A. DESCRIPTION: WATER PERMEABLE FILTER FENCE MATERIAL COMPOSED OF STRONG ROT PROOF SYNTHETIC FIBERS FORMED INTO A MATRIX OF WOVEN OR NON-WOVEN FABRIC. EITHER TYPE OF FABRIC SHALL BE FREE OF ANY TREATMENT OR COATING WHICH MIGHT SIGNIFICANTLY ALTER THE PHYSICAL PROPERTIES AFTER INSTALLATION. THE FABRIC SHALL CONTAIN STABILIZER AND/OR INHIBITORS TO MAKE CERTAIN THE FILAMENTS ARE RESISTANT TO DETERIORATION RESULTING FROM EXPOSURE TO SUNLIGHT OR HEAT. THE FABRIC SHALL BE A PERVIOUS SHEET OF SYNTHETIC FIBERS ORIENTED INTO A STABLE NETWORK, SO THAT THE FIBERS RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER.

   EDGES OF THE FABRIC SHALL BE FINISHED TO PREVENT THE OUTER YARN FROM PULLING AWAY FROM THE MATERIAL. THE FABRIC SHALL BE FREE OF DEFECTS OR FLAWS WHICH SIGNIFICANTLY AFFECT THE PHYSICAL AND/OR FILTERING PROPERTIES. THE FABRIC SHALL HAVE A MINIMUM WIDTH OF THIRTY SIX (36) INCHES. SHEETS OF FABRIC MAY BE SEWN OR BONDED TOGETHER. NO DEVIATION FROM ANY PHYSICAL STANDARD WILL BE PERMITTED, DUE TO THE PRESENCE OF THE SEAM.

   THE FABRIC MAY BE MANUFACTURED WITH POCKETS FOR POSTS, HEM WITH CORD, OR WITH POSTS PRE-ATTACHED USING STAPLES OR BUTTON-HEAD NAILS.

2. TYPE B. DESCRIPTION: TYPE B FILTER FABRIC SHALL MEET THE SAME STANDARDS AS TYPE A. FILTER FABRIC SHALL BE A MINIMUM OF TWENTY TWO (22) INCHES IN WIDTH.
3. TYPE C. DESCRIPTION: TYPE C FILTER FABRIC SHALL MEET THE SAME STANDARDS AS TYPE A AND TYPE B. SILT FENCE WILL BE USED NEAR STREAMS IN DOUBLE ROWS.

4. MATERIALS.
   A. POSTS.
      1. HARDWOOD: 1.5"x 1.5"x 48" MINIMUM FOR TYPE A FABRIC. FOR TYPE B FABRIC, 1"x 1"x 36" MIN.
      2. SOFTWOOD: 3" DIAMETER MINIMUM OR NOMINAL 2"x 4" FOR TYPE A FABRIC. FOR TYPE B FABRIC, A 2" DIAMETER OR NOMINAL 2"x 2".
      3. STEEL: POSTS SHALL BE ROUND, U.T. OR C SHAPED WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT AND HAVE PROJECTIONS FOR FASTENING THE WIRE TO THE FENCE FOR TYPE A FABRIC. FOR TYPE B FABRIC, POSTS SHALL HAVE A MINIMUM WEIGHT OF .75 POUNDS PER FOOT. ROUND POSTS SHALL BE A MINIMUM OF 1" DIAMETER.

   B. SPACING. SIX (6) FOOT CENTERS MAXIMUM.

   C. FABRIC. GEORGIA DOT QUALIFIED PRODUCTS LIST #36 ONLY.

   D. FASTENERS. WIRE STAPLES WILL BE A NO. 17 GAUGE MINIMUM AND SHALL HAVE A CROWN AT LEAST 1/4" WIDE AND LEGS AT LEAST 1/2" IN LENGTH. STAPLES SHALL BE EVENLY SPACED WITH AT LEAST 5 PER POST. NAILS SHALL BE 14 GAUGE MINIMUM, 1" IN LENGTH, WITH 1/4" BUTTON HEADS. NAILS SHALL BE EVENLY SPACED WITH AT LEAST 4 PER POST.

5. INSTALLATION. TEMPORARY SILT FENCE INSTALLATION SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

6. MAINTENANCE. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL THE PROJECT IS COMPLETED AND FINAL STABILIZATION IS ACHIEVED. FILTER FABRIC SHALL BE REMOVED AND REPLACED WHENEVER IT HAS DETERIORATED OR BEEN OTHERWISE DAMAGED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SILT FENCE.

   INSTALLATION OF FABRIC FENCE MATERIAL IN AREAS OF CONCENTRATED FLOW IS NOR RECOMMENDED UNLESS PROPER PROVISIONS ARE MADE TO SUPPLEMENT OR OTHERWISE STRENGTHEN THE FENCE SO AS TO WITHSTAND INCREASED DRAINAGE WATER VELOCITIES.

   NOTE: VENDOR MUST SUPPLY LETTER OF WARRANTY FOR THE AFOREMENTIONED SPECIFICATIONS. IN ADDITION, THIS LETTER SHOULD STATE THE FABRIC IS LISTED ON THE GEORGIA DOT QUALIFIED PRODUCTS LIST #36.

7. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171- TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, LATEST EDITION.

8. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

9. PROVISIONS TO PREVENT EROSION OF SOIL FROM SITE SHALL BE, AS MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY EROSION AND SEDIMENTATION ORDNANCE AND CITY OF ATLANTA CODE OF LAWS.

10. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE.

11. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED WASHED, OR TRACKED FROM THE VEHICLE OR SITE, ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS MUST BE IMMEDIATELY REMOVED.

12. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY AND ACCURATELY ESTABLISHED WITH STAKES, RIBBONS, OR OTHER PRE-APPROVED METHODS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE ESTABLISHED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO CONSTRUCTION SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS AND EASEMENT PLATS.

13. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

14. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

15. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL THE UP-STREAM GROUND, WITHIN THE CONSTRUCTION AREA, HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

16. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS, IF DRAINAGE PATTERNS, DURING CONSTRUCTION, ARE DIFFERENT FROM THE FINAL PROPOSED PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER, IMMEDIATELY.

17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE PERFORMED UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED.

18. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR CITY OF ATLANTA INSPECTOR.

19. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN IT IS WITHIN 12" FROM TOP OF THE SILT FENCE, UTILIZED FOR EROSION CONTROL. IN DETENTION PONDS, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED, AT THE WEIR.

20. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN CONSTRUCTION BEING HALTED, UNTIL ALL PROBLEMS HAVE BEEN CORRECTED TO CITY OF ATLANTA STANDARDS.

21. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION (SEE STANDARD EROSION CONTROL DETAILS).

22. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 4.5 SQUARE YARDS OF 50 LB. STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. THE PLACEMENT OF RIP-RAP, AT DOWNSTREAM HEADWALLS, SHALL BE IN PLACE IMMEDIATELY UPON THE INSTALLATION OF PIPES AND DRAINAGE DITCHES.

23. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

24. PROVIDE CITY OF ATLANTA STANDARD 201-TYPE 1 SILT GATES AT ALL INLET HEADWALLS.

25. PROVIDE CITY OF ATLANTA STANDARD 201-TYPE 3 SILT GATES AT ALL CATCH BASINS, JUNCTION BOXES, MANHOLES, AND DROP INLETS.

26. CHECK DAMS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, AND SHALL BE CONSTRUCTED BEFORE ANY GRADING OR CLEARING AND GRUBBING IS ACCOMPLISHED. ALL GRADED AREAS, SLOPES, WATERWAYS, ETC., WHICH DRAIN TOWARD THE CHECK DAM SHALL BE GRASSED OR STABILIZED WITH STRAW MULCH IMMEDIATELY AFTER GRADING.

27. THE CONTRACTOR WILL RE REQUIRED TO MAINTAIN THE CHECK DAMS IN GOOD REPAIR BY CLEANING OUT ACCUMULATED SEDIMENT AND REPAIRING THE CHECK DAMS AS NEEDED DURING THE LIFE OF THE CONTRACT.

28. THE NUMBER OF CHECK DAMS AND LENGTH OF SILT FENCE INDICATED ON THE DRAWINGS ARE THE ESTIMATED AMOUNTS REQUIRED. ADDITIONAL CHECK DAMS OR SILT FENCING MAY BE NECESSARY AND SHALL BE PROMPTLY INSTALLED IF REQUIRED BY THE ENGINEER OR BY THE CITY OF ATLANTA INSPECTOR.

29. WHEN THE PERMANENT DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND THE GRASS ON THE PLANTED SHOULDERS, SLOPES, AND WATERWAYS IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT. CHECK DAMS SHALL BE REMOVED AND ALL BARE SPOTS SHALL BE PERMANENTLY GRASSED.

30. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE WIDTH OF EASEMENT CLEARING AND PRESERVE TREES AND GROWTH ALONG STREAM BANKS. ALL AREAS ALONG THE CREEK BANK WHICH ARE DISTURBED SHALL BE RIP-RAPPED AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.

31. TWENTY-FIVE FOOT STREAM BUFFER TO BE MAINTAINED EXCEPT WHERE ALLOWED IF PROPER PERMITS ARE OBTAINED.

32. PIPE LAYING WORK SHALL PROGRESS SUCH THAT THE MAXIMUM AMOUNT OF OPEN TRENCH DURING WORK HOURS IS LESS THAN 500 LINEAR FEET. AT THE END OF EACH WORKING DAY, THE MAXIMUM LENGTH OF OPEN EXCAVATION SHALL BE 30 LINEAR FEET. SOIL STABILIZATION INCLUDING MULCHING AND SEEDING SHALL BE PERFORMED ON A DAILY BASIS SUCH THAT ALL BACKFILLED TRENCHES ARE STABILIZED WITHIN 24 HOURS AND THAT AT NO TIME SHALL THE TOTAL LENGTH OF UNSTABILIZED BACKFILLED TRENCH EXCEED 500 LINEAR FEET. IN AREAS WHERE THIS STABILIZATION SCHEDULE CANNOT BE MET, AND AREAS SUBJECT TO REPEATED CONSTRUCTION TRAFFIC, SILT FENCE SHALL BE INSTALLED ALONG THE ENTIRE LOWER LIMITS OF THE AREA AT THE CONTRACTOR'S EXPENSE.

33. EXCAVATIONS LEFT OPEN OVERNIGHT SHALL BE PROTECTED USING FENCING OR OTHER ACCEPTABLE BARRIERS TO PREVENT UNAUTHORIZED ACCESS.

EROSION CONTROL SCHEDULE

AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL PRESENT HIS PROPOSED PLANS AND SCHEDULES FOR CONSTRUCTION OF THE PROJECT, IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION. THE SCHEDULE SHALL BE BASED ON THE ANALYSIS OF PROJECT CONDITIONS AND EROSION POTENTIAL, AND SHALL BE IN WRITTEN FORM. THIS SCHEDULE SHALL SPECIFICALLY INDICATE THE SEQUENCE OF CLEARING AND GRUBBING, EARTHWORK OPERATIONS, AND CONSTRUCTION OF PERMANENT EROSION CONTROL FEATURES, AND THE PROPOSED USES OF TEMPORARY EROSION CONTROL DEVICES, INCLUDING DETAILS. IT SHALL ALSO INCLUDE PROPOSED METHODS TO PREVENT POLLUTION AND UNNECESSARY DISRUPTION OF STREAMS, LAKES, RESERVOIRS, AND OTHER IMPOUNDMENTS, AS RESULTS OF CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL ALSO OUTLINE HIS PROPOSED METHODS OF CONTROLLING EROSION AND PREVENTING POLLUTION OF HAUL ROADS AND IN BORROW PITS, AND AREAS USED FOR DISPOSAL OF WASTE MATERIALS FROM THE PROJECT.

NO WORK SHALL BE STARTED UNTIL THE AFOREMENTIONED PLANS AND SCHEDULES HAVE BEEN APPROVED BY THE CITY OF ATLANTA ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACCOMPLISHMENT OF THE WORK IN ACCORDANCE WITH THE ACCEPTED PLANS AND SCHEDULES. THE ENGINEER MAY AFFECT OR APPROVE CHANGES MADE NECESSARY BY UNFORESEEN CIRCUMSTANCES, WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR.

CONSTRUCTION:

A. GENERAL. THE ENGINEER HAS THE AUTHORITY TO LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, THE SURFACE AREA OF ERODIBLE MATERIAL EXPOSED BY EXCAVATION, BORROW AND FILL OPERATIONS, AND TO DIRECT THE CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND POLLUTION CONTROL MEASURES, TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, OR OTHER AREAS OF WATER IMPOUNDMENT.

SUCH WORK MAY INVOLVE THE CONSTRUCTION OF TEMPORARY BERMS, DIKES, DAMS, SEDIMENT BASINS, SLOPE DRAINS, AND USE OF TEMPORARY MULCHES, MATS, SEEDING, OR OTHER CONTROL DEVICES OR METHODS AS NECESSARY TO CONTROL EROSION. CUT SLOPES SHALL BE SEEDED AND MULCHED AS THE EXCAVATION PROCEEDS. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL PERMANENT EROSION CONTROL FEATURES INTO THE PROJECT, AT THE EARLIEST TIME, AS OUTLINED IN HIS/HER ACCEPTED SCHEDULE. TEMPORARY EROSION CONTROL MEASURES WILL BE INSTALLED IN ANTICIPATION OF POTENTIAL EROSION PROBLEMS, OR FOR CONTROL OF UNFORESEEN EROSION, AS IT OCCURS.

B. CLEARING AND GRUBBING OPERATIONS SHALL BE SO SCHEDULED AND PERFORMED SO THAT GRADING OPERATIONS AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER, IF THE PROJECT CONDITIONS PERMIT; OTHERWISE, TEMPORARY EROSION CONTROL MEASURES MAY BE REQUIRED BETWEEN SUCCESSIVE CONSTRUCTION STAGES.

C. THE ENGINEER WILL LIMIT THE AREA OF EXCAVATION, BORROW AND EMBANKMENT OPERATIONS IN PROGRESS, COMMENSURATE WITH THE CONTRACTOR'S CAPABILITY AND PROGRESS IN KEEPING THE FINISH GRADING, MULCHING, SEEDING, AND OTHER SUCH PERMANENT POLLUTION CONTROL MEASURES CURRENT, IN ACCORDANCE WITH THE ACCEPTED SCHEDULE. SHOULD SEASONAL LIMITATIONS MAKE SUCH COORDINATION UNREALISTIC, TEMPORARY EROSION CONTROL MEASURES SHALL BE TAKEN IMMEDIATELY TO THE EXTENT FEASIBLE AND JUSTIFIED.

GRADING OPERATION:

EACH ROADWAY CUT AND EMBANKMENT SHALL BE COMPLETED IN A CONTINUOUS MANNER, UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT OR ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN THE TOP OF THE EARTHWORK IN ALL ROADWAY SECTIONS THROUGH ALL CONSTRUCTION STAGES, IN A MANNER WHICH WILL PERMIT THE RUNOFF OF RAINWATER TO PREVENT EROSION. ON EMBANKMENTS WITH FLAT SLOPES WHERE SLOPE DRAINS ARE IMPRACTICAL, TEMPORARY GRASSING OR STRAW MULCH STABILIZATION SHALL BE CONSTRUCTED CONCURRENTLY WITH THE EMBANKMENT FORMATION. SHOULD SUCH PREVENTATIVE MEASURES FAIL TO FUNCTION EFFECTIVELY, THE CITY OF ATLANTA ENGINEER WILL REQUIRE THE CONTRACTOR TO ACT IMMEDIATELY TO BRING THE EROSION AND SILTATION UNDER CONTROL, BY ADDITIONAL TEMPORARY MEANS, AS NECESSARY.

THE EROSION CONTROL MEASURES DESCRIBED HEREIN SHALL BE CONTINUED UNTIL THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND THE GRASS, ON PLANTED SLOPES, IS SUFFICIENTLY ESTABLISHED FOR EFFECTIVE STABILIZATION.

TEMPORARY GRASSING AND MULCHING:

WHERE STAGED CONSTRUCTION OR OTHER CONDITIONS NOT CONTROLLED BY THE CONTRACTOR PROHIBIT THE COMPLETION OF A ROADWAY SECTION, IN A CONTINUOUS MANNER, THE ENGINEER MAY ORDER THE CONTRACTOR TO APPLY SEEDING AND/OR TEMPORARY MULCH TO AN ERODIBLE AREA, EITHER ON OR OFF THE RIGHT-OF-WAY, BORROW PITS, TEMPORARY HAUL ROADS, OR WASTE AREAS.

A. TEMPORARY GRASS. TEMPORARY GRASS SHALL CONSIST OF SOWING A QUICK GROWING SPECIES OF GRASS, SUCH AS RYE, BROWN TOP MILLET, OR A CEREAL GRASS, SUITABLE TO THE AREA AND SEASON. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENT OF SECTION 700, IN GEORGIA'S DOT STANDARD SPECIFICATIONS. GROUND PREPARATION WILL BE THE MINIMUM REQUIRED TO PROVIDE A SEED BED. LIME AND FERTILIZER WILL BE OMITTED OR THE RATE OF APPLICATION REDUCED, AS DETERMINED BY THE ENGINEER. MULCH WILL ALSO BE OMITTED. FOR TEMPORARY STABILIZATION SEE DETAIL 34 ON EC-2..

B. TEMPORARY MULCH. TEMPORARY MULCH WILL BE APPLIED IN ACCORDANCE WITH SECTION 164, GEORGIA'S DOT STANDARD SPECIFICATIONS. STRAW MULCH STABILIZATION, EXCEPT THAT AREA MULCHED, NEED NOT TO BE FINISHED GRADE OR CROSS-SECTION. THE MULCH AREAS MAY BE PLACED ON SLOPES AS STEEP AS 2:1, USING TRACTOR TO EMBED THE MULCH INTO THE SLOPE.

CONSTRUCTION IN STREAM BED:

UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER, CONSTRUCTION OPERATIONS IN RIVERS, STREAMS, AND IMPONDMENTS SHALL BE RESTRICTED TO THOSE AREAS WHERE CHANNEL CHANGES ARE SHOWN ON THE PLANS AND TO THOSE AREAS WHICH MUST BE ENTERED FOR THE CONSTRUCTION OF TEMPORARY OR PERMANENT STRUCTURES. AS SOON AS CONDITIONS PERMIT, RIVERS, STREAMS, AND EMPONDMENTS SHALL BE PROMPTLY CLEARED OF ALL FALSE WORK, PILING WHICH ARE TO BE REMOVED, DEBRIS, AND OTHER OBSTRUCTIONS PLACED THEREIN OR CAUSED BY THE CONSTRUCTION OPERATIONS. FREQUENT FORDING OF LIVE STREAMS WITH CONSTRUCTION EQUIPMENT, WILL NOT BE PERMITTED; THEREFORE, TEMPORARY BRIDGES OR OTHER STRUCTURES SHALL BE USED WHEN STREAM CROSSINGS ARE NECESSARY. MECHANIZED EQUIPMENT SHALL NOT BE OPERATED IN FLOWING STREAMS, EXCEPT AS MAY BE REQUIRED TO CONSTRUCT CHANNEL CHANGES AND TEMPORARY OR PERMANENT STRUCTURES, AND TO REMOVE TEMPORARY STRUCTURES.

CLEAN UP:

BEFORE THE WORK IS CONSIDERED AS COMPLETE, ALL RUBBISH AND UNUSED MATERIAL DUE TO OR CONNECTED WITH THE CONSTRUCTION MUST BE REMOVED AND THE PREMISES RETURNED TO A CONDITION SATISFACTORY TO CITY OF ATLANTA PUBLIC WORKS. STREETS, CURBS, CROSSWALKS, PAVEMENTS, SIDEWALKS, FENCING, AND OTHER PUBLIC AND PRIVATE PROPERTY DISTURBED OR DAMAGED, SHALL BE RESTORED TO THEIR FORMER CONDITION. FINAL ACCEPTANCE WILL BE WITHHELD, UNTIL SUCH WORK IS COMPLETED.

REV	DATE	BY	DESCRIPTION

SCALE: N.T.S.

WARNING: IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE

DESIGNED
DRAWN
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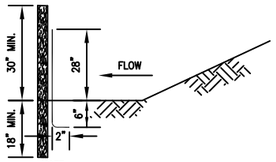
CLEAN WATER ATLANTA — drinking water, stormwater, wastewater

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

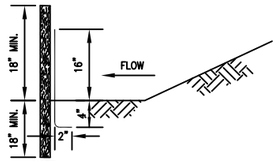
EROSION CONTROL NOTES

SHEET EC-1



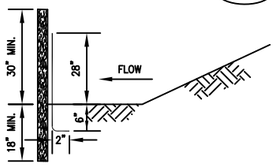
NOTE:
USE 36" DOT APPROVED FABRIC.
USE WOOD OR STEEL POSTS.

SIDE VIEW – TYPE A (Sd1–A)



NOTE:
USE 22" DOT APPROVED FABRIC.
USE WOOD OR STEEL POSTS.

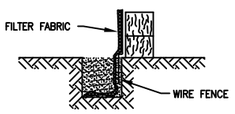
SIDE VIEW – TYPE B (Sd1–B)



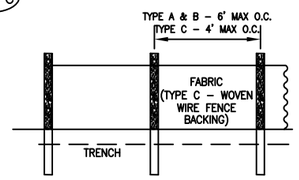
NOTE:
USE 36" DOT APPROVED FABRIC.
USE STEEL POSTS ONLY.

SIDE VIEW – TYPE C (Sd1–C)

NOTE:
IN AREAS OF ENCROACHMENT – CONTRACTOR SHALL USE DOUBLE ROWS.



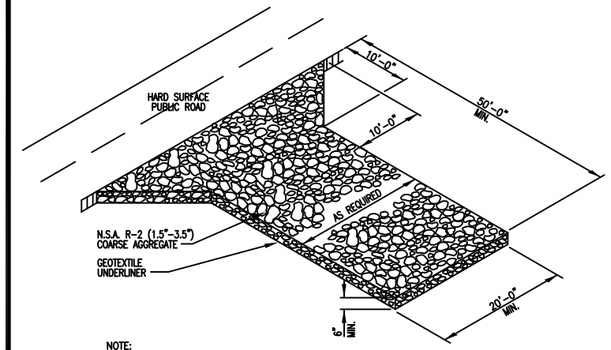
SECTION



FRONT VIEW – ALL TYPES

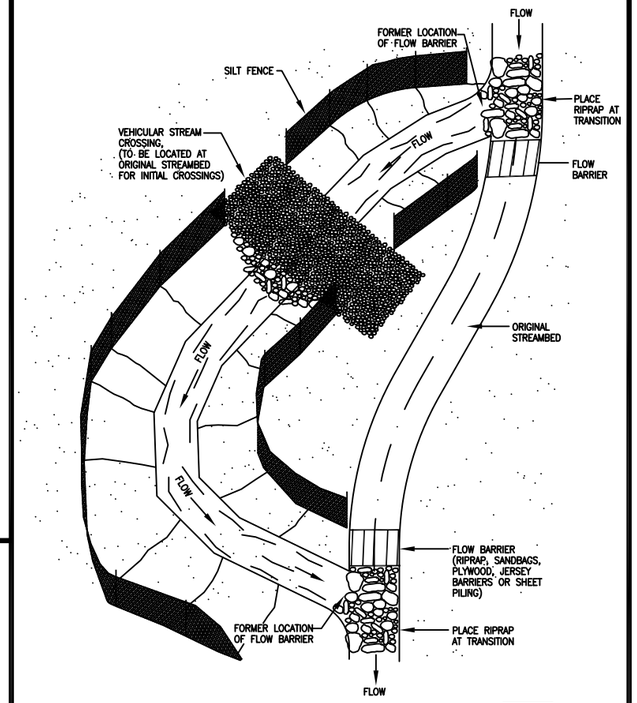
UNIT CONVERSIONS:
4" = 10 cm

SILT FENCE (28) — NOT TO SCALE — EC–2



NOTE:
LOCATION OF ENTRANCE MAY VARY DURING CONSTRUCTION PERIOD.

(Co) TEMPORARY CONSTRUCTION EXIT (30) — NOT TO SCALE — EC–2



(Dc) TYPICAL STREAM DIVERSION CHANNEL (33) — NTS — EC–2

SPECIES	RATE PER 1,000 SQ. FT.	RATE PER ACRE [1]	PLANTING DATES [2] PIEDMONT
RYE	3 POUNDS	2–3 BU.	9/1–1/1 3/1–4/1
RYEGRASS	1 POUND	40–50 POUNDS	8/15–1/1
RYE AND ANNUAL LESPEDEZA	1–1/2 POUNDS 1/2 POUND	1 – 1–1/2 POUNDS 20–25 POUNDS	3/1–4/1 3/1–4/1
WEEPING LOVEGRASS	0.2 POUNDS	4–6 POUNDS	3/1–8/15
SUDANGRASS	1 POUND	35–45 POUNDS	4/1–7/15
BROWNTOP MILLET	1 POUND	30–40 POUNDS	4/1–7/15
WHEAT	3 POUNDS	2–3 BU.	10/15–1/1
BERMUDA	0.2 POUNDS	10 POUNDS	1/1–3/1 10/1–1/1
TALL FESCUE	1.1 POUNDS	50 POUNDS	3/1–4/1 8/15–10/15

[1] UNUSUAL SITE CONDITIONS AS DETERMINED BY ENGINEER MAY REQUIRE HEAVIER SEEDING RATES.

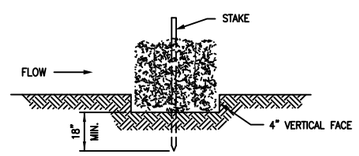
[2] SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

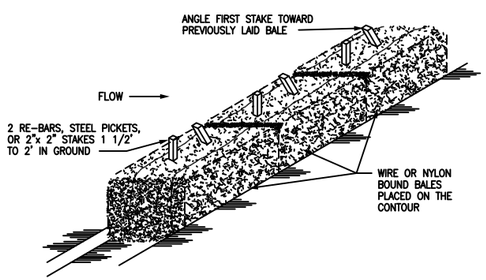
ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS

≤ 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION

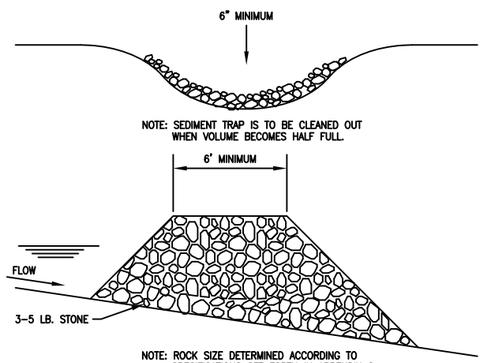
SITE PREPARATION:
- GRADING AND SHAPING
- SEEDBED PREPARATION
- APPLY LIME AND FERTILIZER
- PLANT SEEDINGS, SELECT SPECIES BY SEASON AND REGION
- APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

TEMPORARY STABILIZATION (Ds2) — (34) EC–2





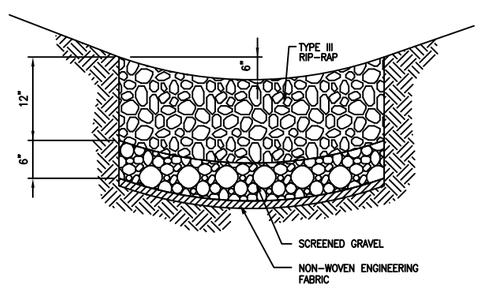
(Sd1) STACKED HAY BALES (29) — NOT TO SCALE — EC–2



NOTE: SEDIMENT TRAP IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

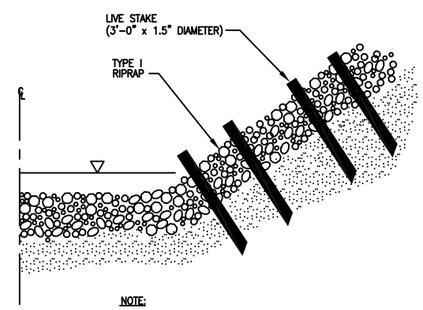
NOTE: ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

(Rd) ROCK DAM FOR SEDIMENT CONTROL (31) — NOT TO SCALE — EC–2



(Rp) TYPICAL DITCH RIP-RAP DETAIL (32) — NOT TO SCALE — EC–2

SYMBOL	CODE	PRACTICE
	Co	CONSTRUCTION EXIT/ENTRANCE
	Rd	ROCK DAM FOR SEDIMENT CONTROL
	Rp	RIP–RAP
	Sd1	SEDIMENT BARRIER (SILT FENCE)
	Sd1	SEDIMENT BARRIER (HAY BALES)
	Sd2	INLET SEDIMENT TRAP
SEE DETAILS 34/EC–2	Ds2	DISTURBED AREA STABLIZATION (TEMPORARY SEEDING)
SEE SPECIFICATIONS	Ds3	DISTURBED AREA STABLIZATION (PERMANENT VEGETATION)



NOTE:
RIP–RAP TO BE 2'–0" DEEP ON SLOPES AND ACROSS STREAM BED. STREAM BANK EROSION CONTROL WILL BE INCLUDED IN COST OF STREAM CROSSING.

STREAM BANK EROSION CONTROL (35) — NOT TO SCALE — EC–2

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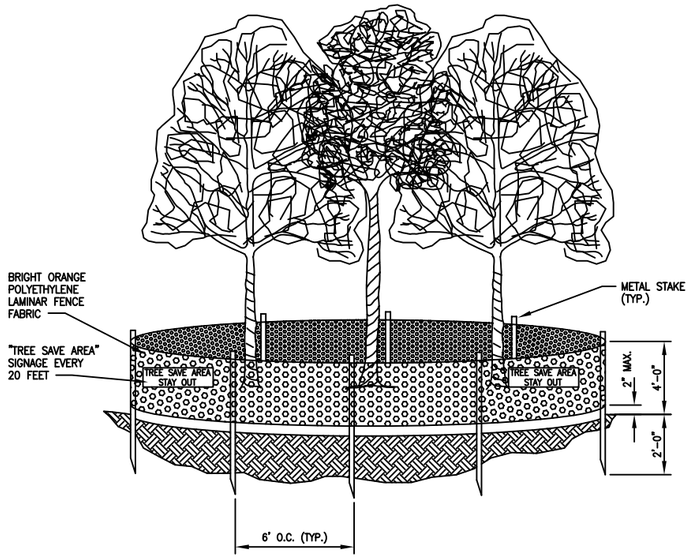
CLEAN WATER ATLANTA — managing water, stormwater, wastewater

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

EROSION CONTROL DETAILS

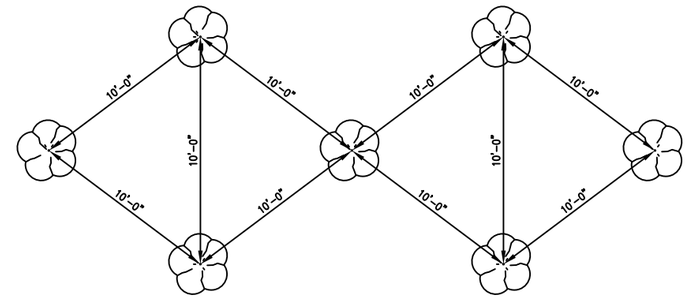
SHEET EC–2



ALL TREE PROTECTION FENCE MUST BE ACCOMPANIED BY "KEEP OUT" OR "TREE SAVE" SIGNAGE. TREE PROTECTION FENCING SIGNS WILL BE AVAILABLE AT FULTON COUNTY GOVERNMENT IN THE DEPARTMENT OF ENVIRONMENT AND COMMUNITY DEVELOPMENT AT THE CASHIERS COUNTER. (PER FULTON COUNTY TREE PRESERVATION ORDINANCE ADOPTED BY THE BOARD OF COMMISSIONERS DECEMBER 1, 1999 EFFECTIVE 1/1/2000.

TREE PROTECTION DETAIL

N.T.S.



TREE REPLANTED MINIMUM SPACING PLAN

N.T.S.

NOTES:

1. IF THE LANDSCAPE DESIGN OR PLANT MATERIAL ARE CHANGED IN ANY WAY FROM THE CITY OF ATLANTA PERMITTED PLAN, YOU SHALL SUBMIT 2 SETS OF REVISED PLANS TO THE CITY OF ATLANTA ARBORIST'S OFFICE FOR APPROVAL PROIR TO ANY LANDSCAPE INSTALLATION.
2. CONTACT THE CITY ARBORIST AT 404-330-6076 TO ARRANGE A PRECONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING. UNDISTURBED BUFFERS SHALL BE REPLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED AT APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO COUNTY ARBORIST APPROVAL.
3. ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY ARBORIST FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.
4. PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF ATLANTA TREE PRESERVATION ORDINANCE AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.
5. TREES TO BE PROTECTED SHALL HAVE FENCING A NUMBER OF LINEAR FEET AWAY FROM TREE THAT IS EQUAL TO THE NUMBER OF INCHES THE DIAMETER OF THE TREE.
6. PLANTING OF TREES SHALL OCCUR IN OPTIMUM TREE PLANTING SEASON PRIOR TO COMPLETION OF PROJECT.

REV	DATE	BY	DESCRIPTION

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CLEAN WATER ATLANTA

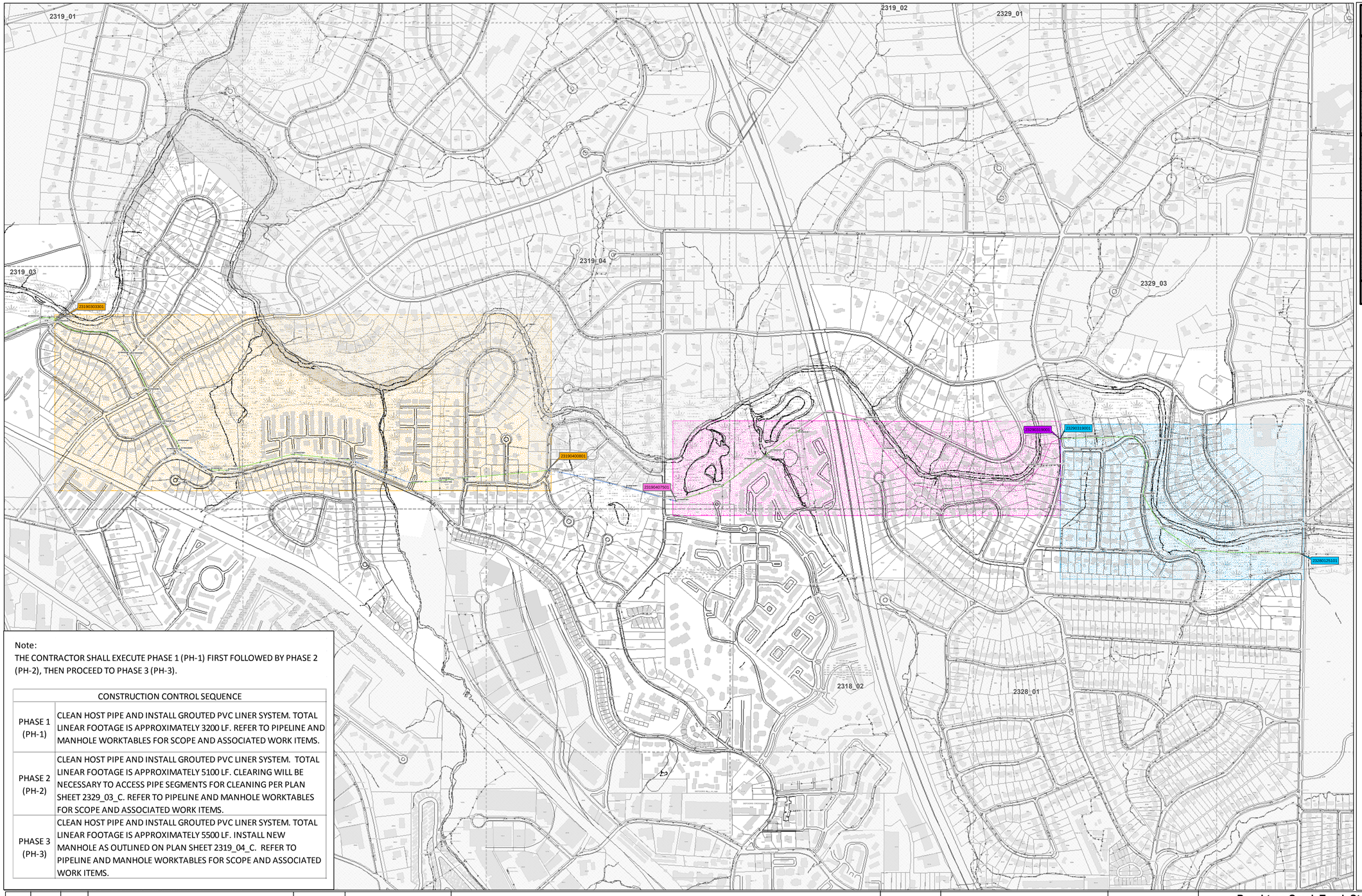
CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

LANDSCAPE AND TREE PROTECTION DETAILS

SHEET

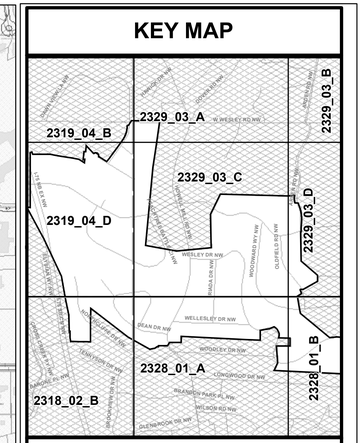
LP-1



Note:
THE CONTRACTOR SHALL EXECUTE PHASE 1 (PH-1) FIRST FOLLOWED BY PHASE 2 (PH-2), THEN PROCEED TO PHASE 3 (PH-3).

CONSTRUCTION CONTROL SEQUENCE	
PHASE 1 (PH-1)	CLEAN HOST PIPE AND INSTALL GROUTED PVC LINER SYSTEM. TOTAL LINEAR FOOTAGE IS APPROXIMATELY 3200 LF. REFER TO PIPELINE AND MANHOLE WORKTABLES FOR SCOPE AND ASSOCIATED WORK ITEMS.
PHASE 2 (PH-2)	CLEAN HOST PIPE AND INSTALL GROUTED PVC LINER SYSTEM. TOTAL LINEAR FOOTAGE IS APPROXIMATELY 5100 LF. CLEARING WILL BE NECESSARY TO ACCESS PIPE SEGMENTS FOR CLEANING PER PLAN SHEET 2329_03_C. REFER TO PIPELINE AND MANHOLE WORKTABLES FOR SCOPE AND ASSOCIATED WORK ITEMS.
PHASE 3 (PH-3)	CLEAN HOST PIPE AND INSTALL GROUTED PVC LINER SYSTEM. TOTAL LINEAR FOOTAGE IS APPROXIMATELY 5500 LF. INSTALL NEW MANHOLE AS OUTLINED ON PLAN SHEET 2319_04_C. REFER TO PIPELINE AND MANHOLE WORKTABLES FOR SCOPE AND ASSOCIATED WORK ITEMS.

KEY MAP



LEGEND

PRIMARY REHAB ASSIGNMENT SYMBOLS

- LINER INSTALLED (~2,400 LF)
- ONLY CLEANING REQUIRED (~3,600 LF)
- TO BE LINED (~10,300 LF)
- PHASE 1
- PHASE 2
- PHASE 3

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway

Notes

1. SEE WORK TABLES FOR PIPE DIAMETERS, LENGTHS AND MATERIALS FOR CONSTRUCTION.
2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

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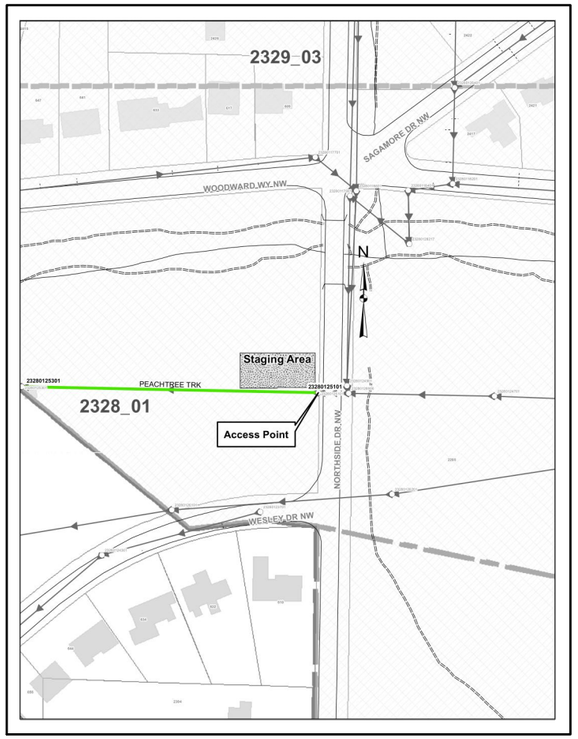
CITY OF ATLANTA

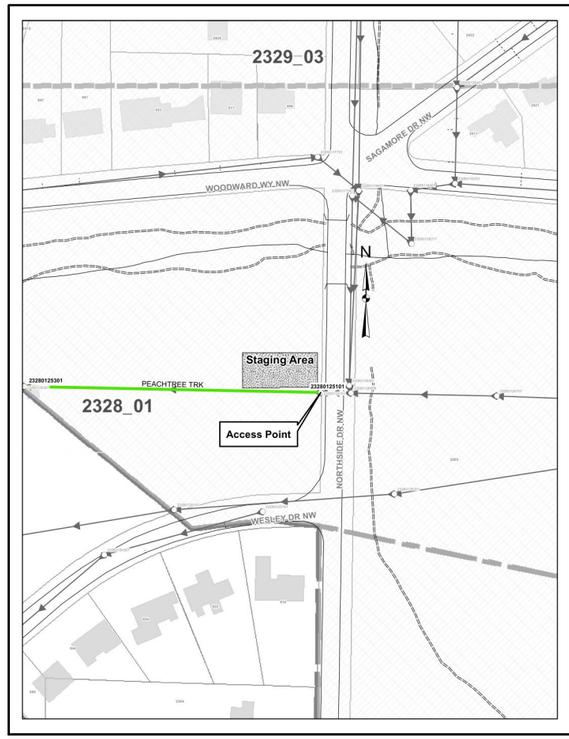
Peachtree Creek Trunk Stabilization

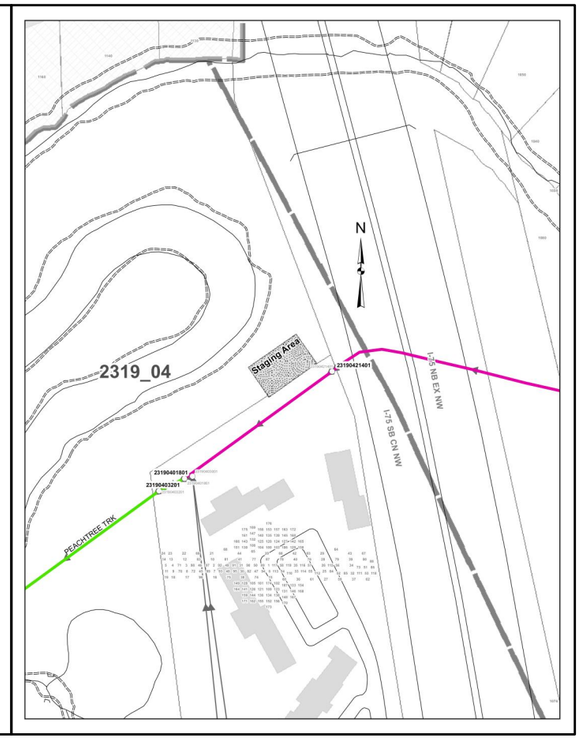
Peachtree Creek Trunk Stabilization Contruction Sequence

ALL PLAN SHEETS

2329_03_C 2328_01_B
2328_01_A 2329_03_A
2319_04_D 2319_04_B
2318_02_B 2329_03_D







PHASE-III
CONSTRUCTION SEQUENCE

1. PRIOR TO BEGINNING CONSTRUCTION, CONSTRACTOR LOCATE ALL THE UTILITIES ON SITE. IF ANY UTILITY NEED TO BE RELOCATED, CONTRACTOR SHALL COORDINATE WITH THE UTILITIES COMPANY PRIOR TO START WORKING.
2. IN THE EVENT OF RAIN, CONTRACTOR SHALL HAVE THE EQUIPMENT AND TOOLS READY FOR BYPASS PUMPING DURING CONSTRUCTION, IF APPLICABLE.
3. CONTRACTOR SHALL BEGIN WORK FROM MH-23190400801 MOVING TOWARDS MOORES MILL RD AND CEASING AT MH-23090401601. FOLLOW THE PIPE ALIGNMENT SHOWN ON THE PEACHTREE CREEK TRUNK STABILIZATION PROJECT MAPS AND THE PEACHTREE CREEK TRUNK STABILIZATION CONSTRUCTION SEQUENCE MAP.

PHASE-II
CONSTRUCTION SEQUENCE

1. PRIOR TO BEGINNING CONSTRUCTION, CONSTRACTOR LOCATE ALL THE UTILITIES ON SITE. IF ANY UTILITY NEED TO BE RELOCATED, CONTRACTOR SHALL COORDINATE WITH THE UTILITIES COMPANY PRIOR TO START WORKING.
2. IN THE EVENT OF RAIN, CONTRACTOR SHALL HAVE THE EQUIPMENT AND TOOLS READY FOR BYPASS PUMPING DURING CONSTRUCTION, IF APPLICABLE.
3. CONTRACTOR SHALL BEGIN WORK FROM HOWELL MILL RD. MOVING TOWARDS INTERSTATE 75/85 AND CEASING AT MH-23190407501. FOLLOW THE PIPE ALIGNMENT SHOWN ON THE PEACHTREE CREEK TRUNK STABILIZATION PROJECT MAPS AND THE PEACHTREE CREEK TRUNK STABILIZATION CONSTRUCTION SEQUENCE MAP.

PHASE-1
CONSTRUCTION SEQUENCE

1. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL THE UTILITIES ON SITE. IF ANY UTILITY NEED TO BE RELOCATED, CONTRACTOR SHALL COORDINATE WITH THE UTILITIES COMPANY PRIOR TO START WORKING.
2. CONTRACTOR SHALL HAVE THE EQUIPMENT AND TOOLS READY FOR BYPASSING THE SANITARY SEWAGE DURING CONSTRUCTION INCASE OF ANY RAIN OR ALLOT FOR FLOW EXISTING IN THE EXISITING HOST PIPE.
3. CONTRACTOR SHALL BEGIN THE WORK FROM NORTHSIDE DR. MOVING TOWARDS HOWELL MILL RD, FOLLOWING THE PIPE ALIGNMENT SHOWN ON THE PEACHTREE CREEK TRUNK STABILIZATION PROJECT MAPS AND THE PEACHTREE CREEK TRUNK STABILIZATION CONSTRUCTION SEQUENCE MAP.

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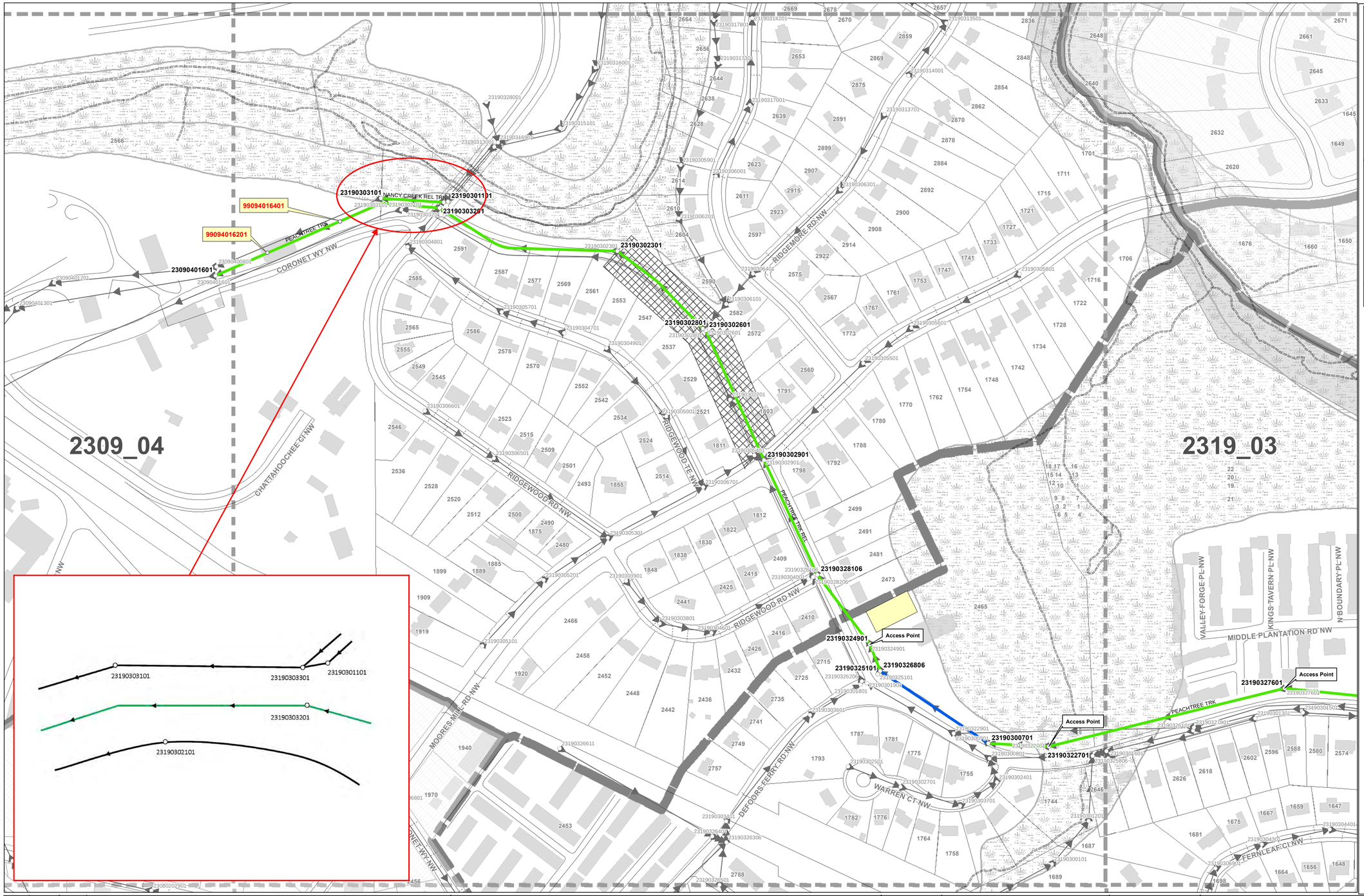
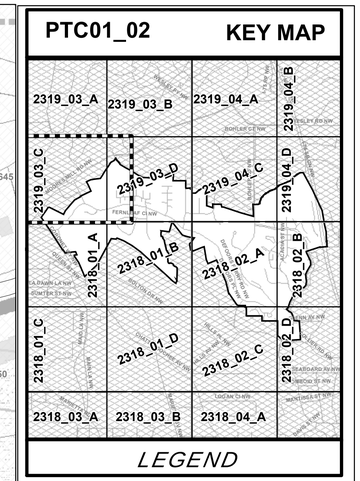
CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION

PHASING & STAGING PLANS

SHEET
1 OF 1





PRIMARY REHAB ASSIGNMENT SYMBOLS

- LINER INSTALLED (~2,400 LF)
- ONLY CLEANING REQUIRED (~5,600 LF)
- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

1. SEE WORK TABLES FOR PIPE DIAMETERS, LENGTHS AND MATERIALS FOR CONSTRUCTION.
2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

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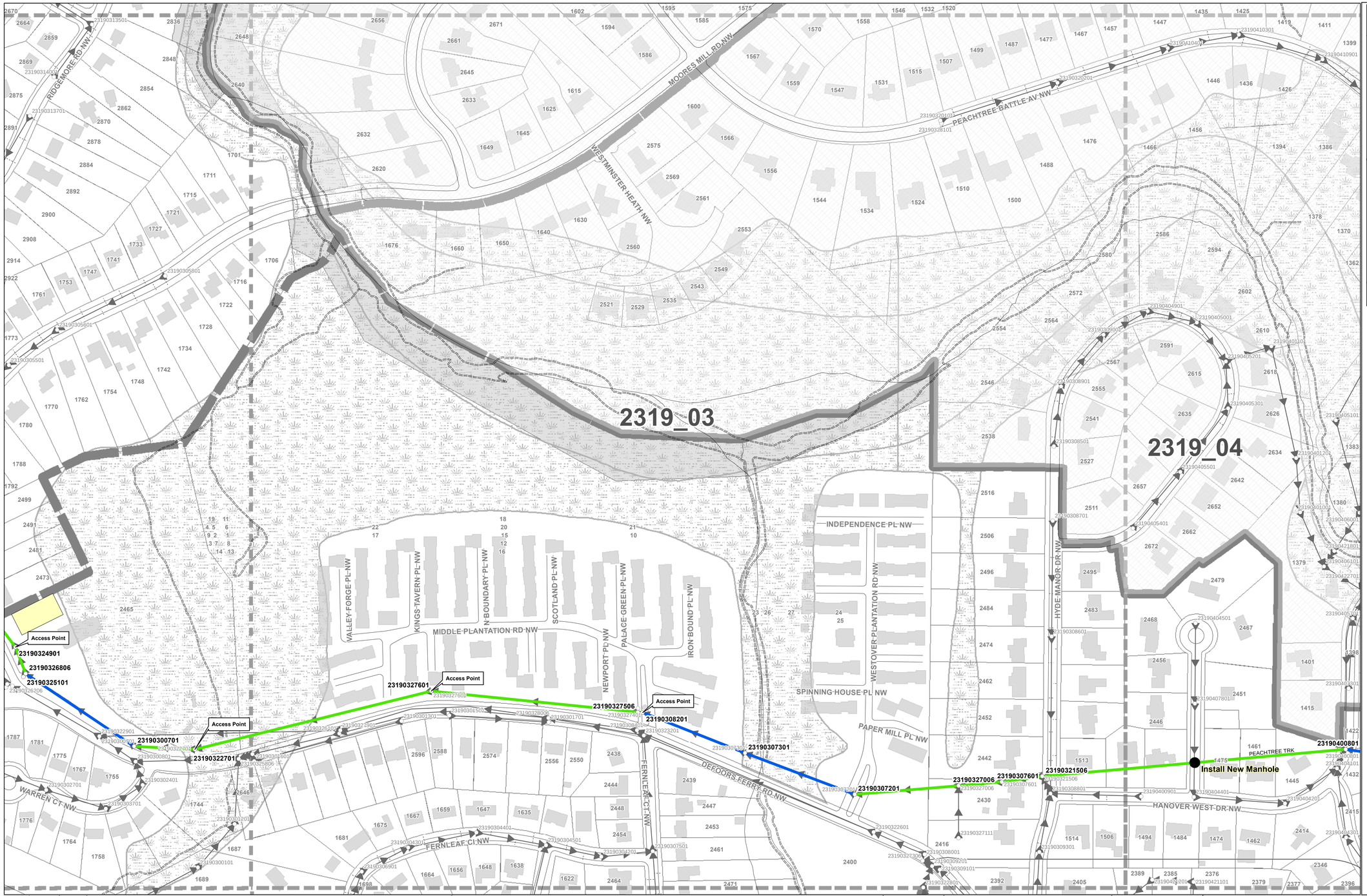
CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION SEWERSHED REHABILITATION PLAN

PTCA and PTC01_02

PLAN SHEET

2319_03_C



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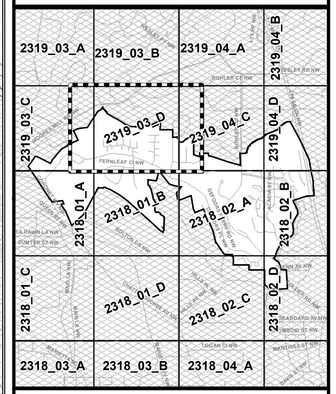
PTC01_02 KEY MAP



LEGEND

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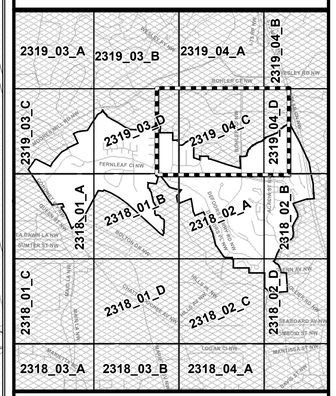
PEACHTREE CREEK TRUNK STABILIZATION SEWERSHED REHABILITATION PLAN

PTCA and PTC01_02

PLAN SHEET 2319_03_D

PTC01_02 KEY MAP



LEGEND

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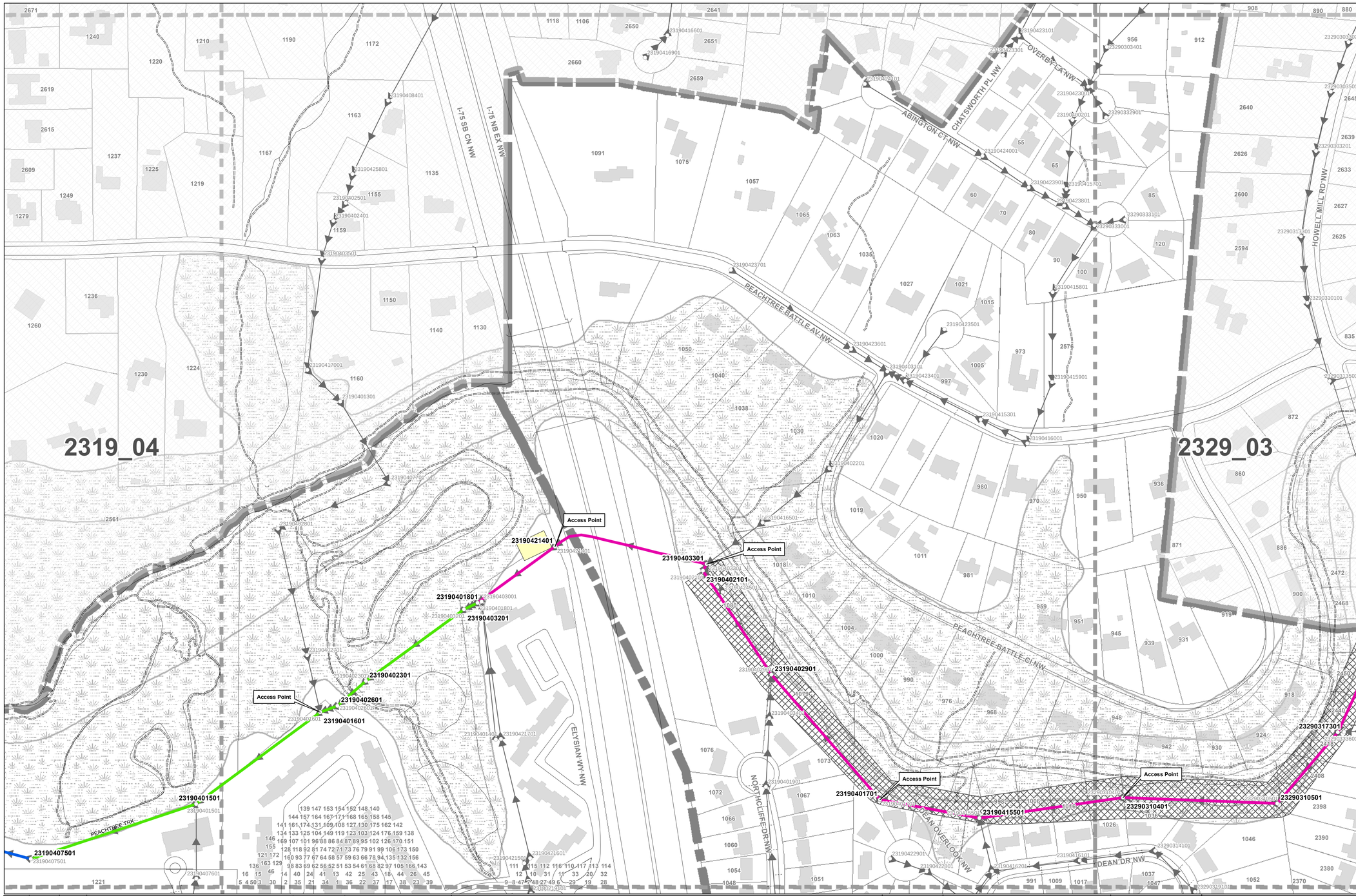
CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PLAN

PTCA and PTC01_02

PLAN SHEET

2319_04_C



PTC01_02 KEY MAP

2319_03_A	2319_03_B	2319_04_A	2319_04_B
2319_03_C	2319_03_D	2319_04_C	2319_04_D
2318_01_A	2318_01_B	2318_02_A	2318_02_B
2318_01_C	2318_01_D	2318_02_C	2318_02_D
2318_03_A	2318_03_B	2318_04_A	

LEGEND

PRIMARY REHAB ASSIGNMENT SYMBOLS

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- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

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- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

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2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

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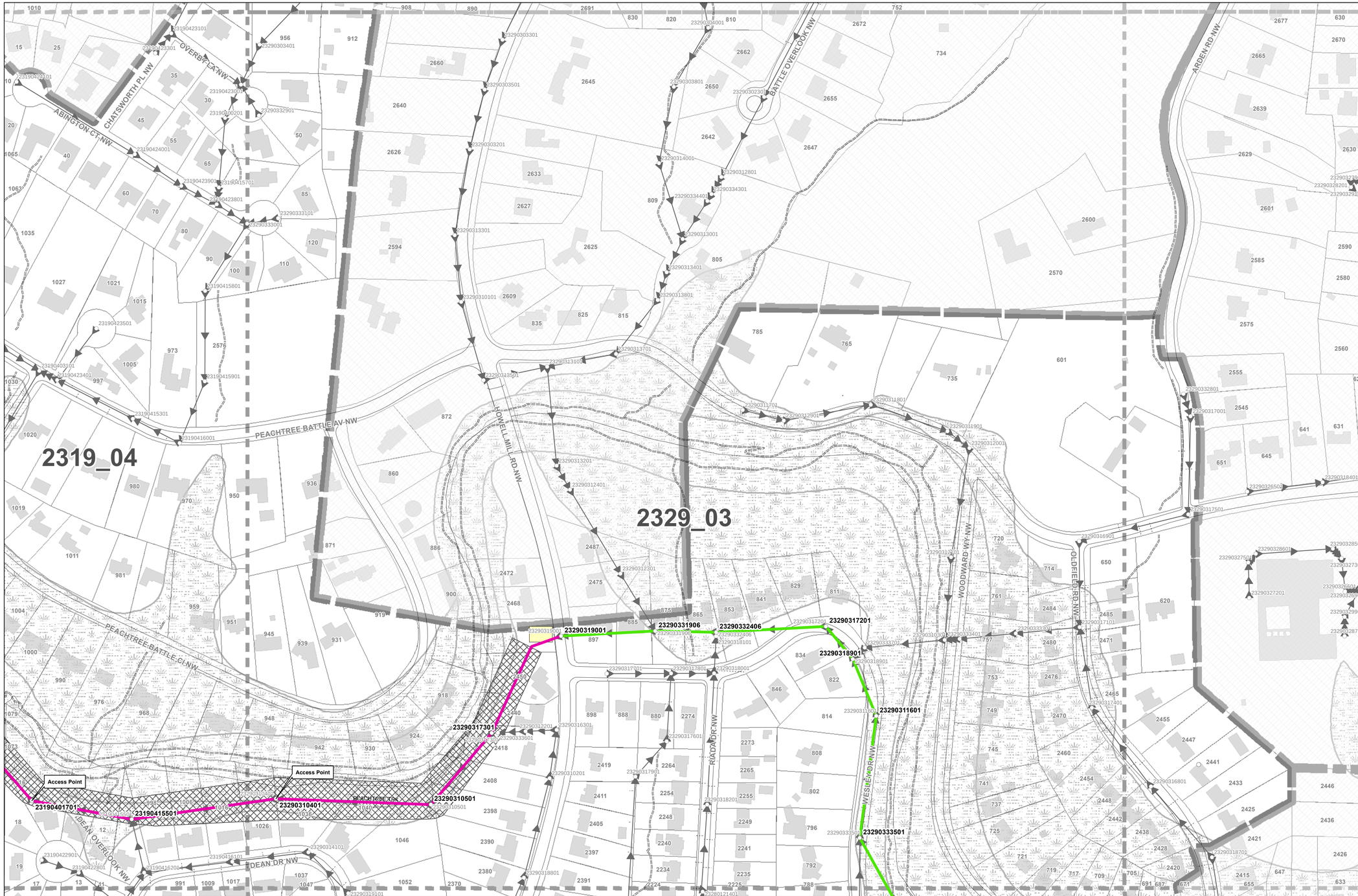
CITY OF ATLANTA

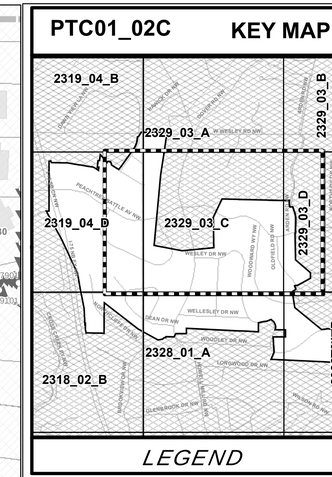
PEACHTREE CREEK TRUNK STABILIZATION SEWERSHED REHABILITATION PLAN

PTCA and PTC01_02

PLAN SHEET

2319_04_D





PRIMARY REHAB ASSIGNMENT SYMBOLS

- LINER INSTALLED (~2,400 LF)
- ONLY CLEANING REQUIRED (~5,600 LF)
- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

1. SEE WORK TABLES FOR PIPE DIAMETERS, LENGTHS AND MATERIALS FOR CONSTRUCTION.
2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

REV	DATE	BY	DESCRIPTION

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CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PLAN

PTC01_02C

PLAN SHEET 2329_03_C

DATE: 9/6/2012 11:38:36 AM

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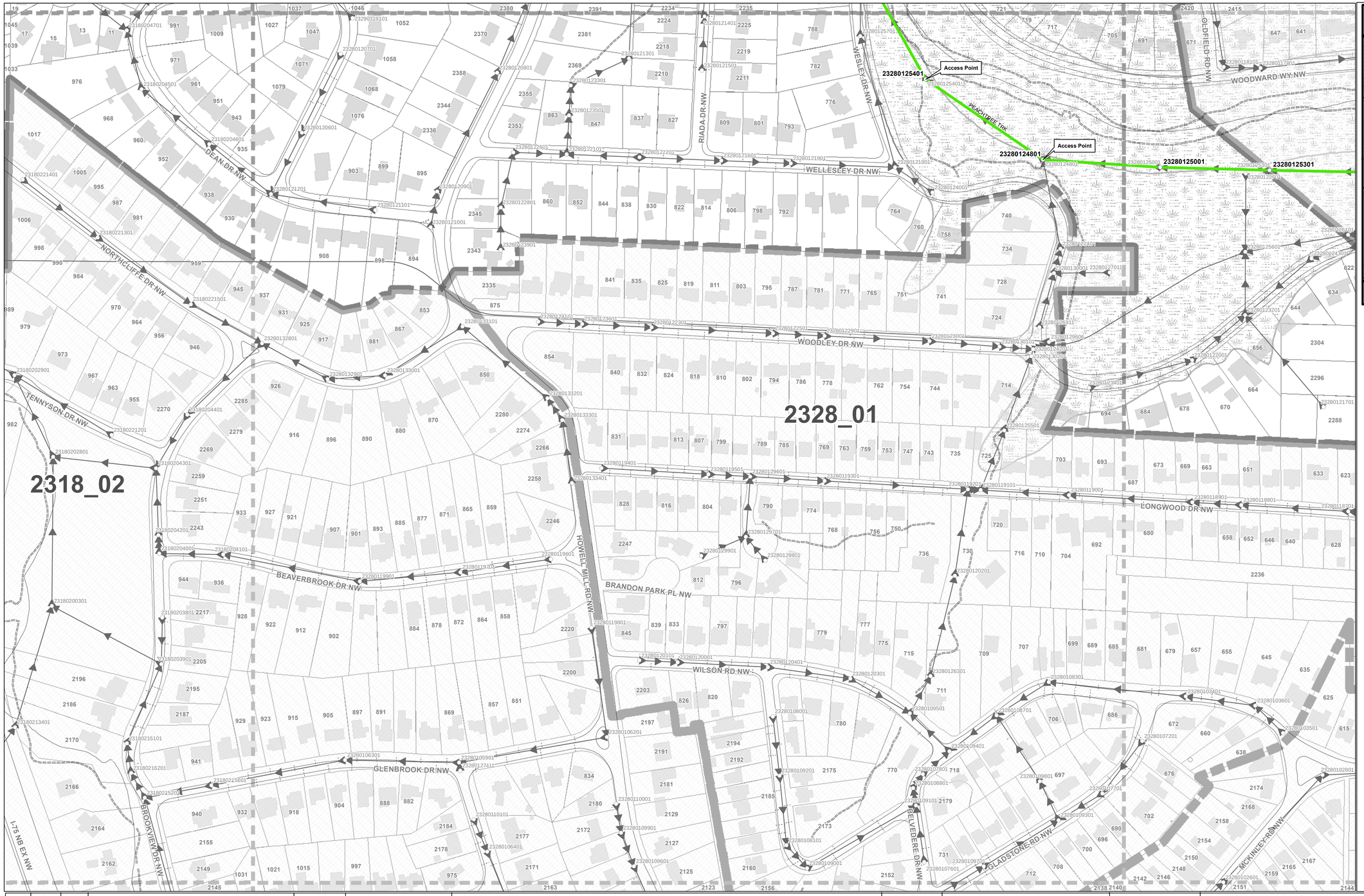

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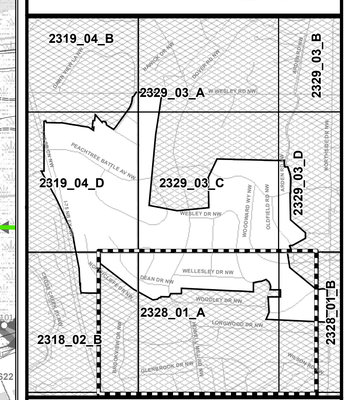
PTC01_02C KEY MAP



LEGEND

PRIMARY REHAB ASSIGNMENT SYMBOLS

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- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

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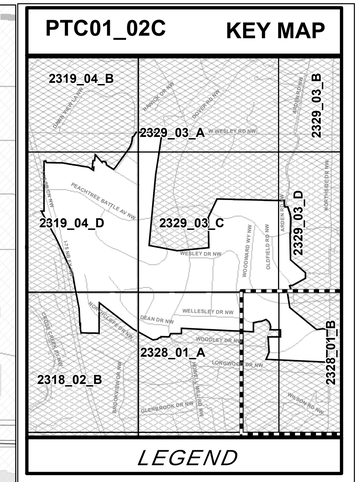
PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PLAN

PTC01_02C

PLAN SHEET 2328_01_A



PRIMARY REHAB ASSIGNMENT SYMBOLS

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- ONLY CLEANING REQUIRED (~5,600 LF)
- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

1. SEE WORK TABLES FOR PIPE DIAMETERS, LENGTHS AND MATERIALS FOR CONSTRUCTION.

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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PLAN

PTC01_02C

PLAN SHEET

2328_01_B

DATE: 9/6/2012 11:38:36 AM

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PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_03_C	23190303201T99094016Y01	NO	90 x 90	RCP	NA	0	LNG			224	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	99094016Y01T99094016Z01	NO	90x90	RCP	NA	0	LNG			224	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	99094016Z01T23090401601	NO	90x90	RCP	17.6	0	LNG			224	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190302301T23190303201	NO	90 x 90	CO	NA	1	LNG			510	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190302801T23190302301	NO	90 x 90	CO	NA	0	LNG			150	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190302601T23190302801	NO	90 x 90	CO	NA	0	LNG			179	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190302901T23190302601	YES	90 x 90	CO	28.1	0	LNG			421	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190328106T23190302901	YES	90 x 90	BR	27	0	LNG			365	LF			PHASE 3	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
BR- BRICK	VF- VERTICAL FEET	SRV- SERVICE RELATED WORK ITEM

NOTES

1. ALL DISTANCES AND COMMENTS ARE MEASURED FROM THE UPSTREAM MANHOLE
2. PIPEID CONSISTS OF TWO PARTS: THE UPSTREAM MANHOLE ID IS SEPARATED BY A "T" FROM THE DOWNSTREAM

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CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTCA and PTC01_02

SHEET 1 OF 7

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_03_C	23190324901T23190328106	YES	96	CO	16.97	0	LNG			250	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190326806T23190324901	YES	96	RCP	16.97	0	LNG			82	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190322701T23190300701	YES	90 x 90	RCP	14	0	LNG			174	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_C	23190327601T23190322701	YES	90 x 90	RCP	13.3	1	LNG			697	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_D	23190327506T23190327601	YES	90 x 90	RCP	14.21	1	LNG			595	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_D	23190308201T23190327506	YES	90 x 90	CO	15.54	0	LNG			13	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_D	23190327006T23190307201	YES	90 x 90	RCP	14.5	1	LNG			299	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_D	23190307601T23190327006	NO	90 x 90	RCP	19.1	1	LNG			124	LF			PHASE 3	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
BR- BRICK	VF- VERTICAL FEET	SRV- SERVICE RELATED WORK ITEM

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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTCA and PTC01_02

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_03_D	23190321506T23190307601	NO	90 x 90	RCP	21.46	1	LNG			117	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_03_D	23190400801T23190321506	YES	90 x 90	CO	14.61	1	LNG			872	LF			PHASE 3	Peachtree Creek Trunk Stabilization
2319_04_C	23190401501T23190407501	NO	90 x 90	RCP	15.04	0	LNG			500	LF			PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_D	23190401601T23190401501	NO	90 x 90	RCP	14.64	2	LNG			445	LF			PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_D	23190402601T23190401601	NO	90 x 90	RCP	13.76	2	LNG			53	LF			PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_D	23190402301T23190402601	NO	90 x 90	RCP	7.5	1	LNG			109	LF		\1. Creek crossing.	PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_D	23190403201T23190402301	NO	90 x 90	RCP	11.25	0	LNG			349	LF			PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_D	23190401801T23190403201	NO	90x 90	RCP	10.52	1	LNG			43	LF			PHASE 2	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
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CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
BR- BRICK	VF- VERTICAL FEET	SRV- SERVICE RELATED WORK ITEM

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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTCA and PTC01_02

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_04_D	23190421401T23190401801	NO	90	RCP	10.83	0	SRV			275	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2319_04_D	23190403301T23190421401	NO	90	CO	NA	0	SRV			771	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2319_04_D	23190402101T23190403301	NO	96	RCP	20.76	0	SRV			22	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2319_04_D	23190402901T23190402101	NO	90 x 90	RCP	22.16	0	SRV			357	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2319_04_D	23190401701T23190402901	NO	90 x 90	RCP	23.89	0	SRV			474	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2319_04_D	23190415501T23190401701	NO	90 x 90	RCP	17.85	0	SRV			290	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			

LEGEND

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RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
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SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTCA and PTC01_02

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_04_D	23290310401T23190415501	NO	90 x 90	RCP	13.34	0	SRV			406	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2329_03_C	23290310501T23290310401	NO	90 x 90	RCP	14.9	0	SRV			436	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2329_03_C	23290317301T23290310501	NO	90 x 90	RCP	14.92	1	SRV			282	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2329_03_C	23290319001T23290317301	YES	90	CO	NA	0	SRV			327	LF			PHASE 2	Peachtree Creek Trunk Stabilization
										1	Ton	Cleaning			
2329_03_C	23290331906T23290319001	YES	90	CO	NA	0	LNG			272	LF			PHASE 1	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
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NOTES

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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTC01_02C

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2329_03_C	23290332406T23290331906	NO	90	CO	NA	0	LNG			170	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23290317201T23290332406	YES	90 x 90	CO	NA	1	LNG			319	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23290318901T23290317201	YES	90 x 90	CO	NA	0	LNG			112	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23290311601T23290318901	YES	90	CO	NA	0	LNG			138	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23290333501T23290311601	YES	96	CO	11.14	0	LNG			353	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23280125401T23290333501	YES	90 x 90	CO	10.63	0	LNG			383	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2329_03_C	23280124801T23280125401	NO	90 x 90	CO	9.92	0	LNG			338	LF			PHASE 1	Peachtree Creek Trunk Stabilization

LEGEND

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CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTC01_02C

PIPELINE WORK

SHEET NO	PIPEID	COMM TRAF	DIAM (in)	MATL	AVG DEPTH	SERVICE COUNT	PROPOSED REHAB	NEW MATL	NEW DIAM	QUANTITY	UNIT	ASSOCIATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2329_03_C	23280125001T23280124801	NO	90 x 90	CO	10.31	0	LNG			337	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2328_01_B	23280125301T23280125001	NO	90 x 90	CO	8.8	0	LNG			315	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2328_01_B	23280125101T23280125301	YES	90 x 90	CO	12.6	0	LNG			447	LF			PHASE 1	Peachtree Creek Trunk Stabilization
2328_01_B	23280124701T23280126606	NO	54 and 66	CO	14.65	0	SRV			220	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization
2328_01_B	23280124601T23280124701	NO	54 and 66	CO	11.64	0	SRV			481	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization
2328_01_B	23280123101T23280124601	NO	54 and 66	CO	10.23	0	SRV			389	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization
2328_01_B	23280126801T23280123101	NO	54 and 66	CO	10.3	0	SRV			297	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization
2328_01_B	23280126901T23280126801	NO	54 and 66	CL	10.85	0	SRV			291	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization
2328_01_B	23280222501T23280126901	NO	54 and 66	CO	11.44	0	SRV			198	LF	Cleaning		PHASE 3	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
BR- BRICK	VF- VERTICAL FEET	SRV- SERVICE RELATED WORK ITEM

NOTES

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PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION PIPELINE WORK TABLE

PTC01_02C

MANHOLE WORK

SHEETNO	MANHOLE	COMM TRAF	DEPTH (ft)	PROPOSED REHAB	QUANTITY	UNIT	ASSOCITATED WORK ITEM	COMMENTS	CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACT
2319_04_D	23190421401	NA	10.77	Manhole Height Adjustment	3	VF	Manhole Height Adjustment	/1. Raise MH above ground, greater than 12 inches.	PHASE 2	Peachtree Creek Trunk Stabilization
2319_04_C	23190400801	YES	14.61	Install New Manhole	1	EA	Install New Manhole	/1. Install New Manhole approximately 435 LF from upstream MH 23190400801	PHASE 3	Peachtree Creek Trunk Stabilization

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
BR- BRICK	VF- VERTICAL FEET	SRV- SERVICE RELATED WORK ITEM

NOTES

1. ALL DISTANCES AND COMMENTS ARE MEASURED FROM THE UPSTREAM MANHOLE
2. PIPEID CONSISTS OF TWO PARTS: THE UPSTREAM MANHOLE ID IS SEPARATED BY A "T" FROM THE DOWNSTREAM

REV	DATE	BY	DESCRIPTION

SCALE: N.T.S.

WARNING: IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE

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CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION
SEWERSHED REHABILITATION MANHOLE WORK TABLE

PTCA and PTC01_02

SHEET 1 OF 2

MANHOLE DATA

MANHOLE ID	DEPTH (ft)	XCOORD	YCOORD	TOP ELEVATION
23190421401	10.77	2218462.94	1390979.09	780
23190400801	14.61	2215638.35	1390399.34	782.45

LEGEND

COMM TRAF-COMMERICAL TRAFFIC	UPSMH- UPSTREAM MANHOLE	LF- LINEAR FEET
RCP- REINFORCED CONCRETE	DNSMH- DOWNSTREAM MANHOLE	LNG- GROUTED PVC LINER
CO- CONCRETE	MH- MANHOLE	NA- NOT AVAILABLE
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NOTES

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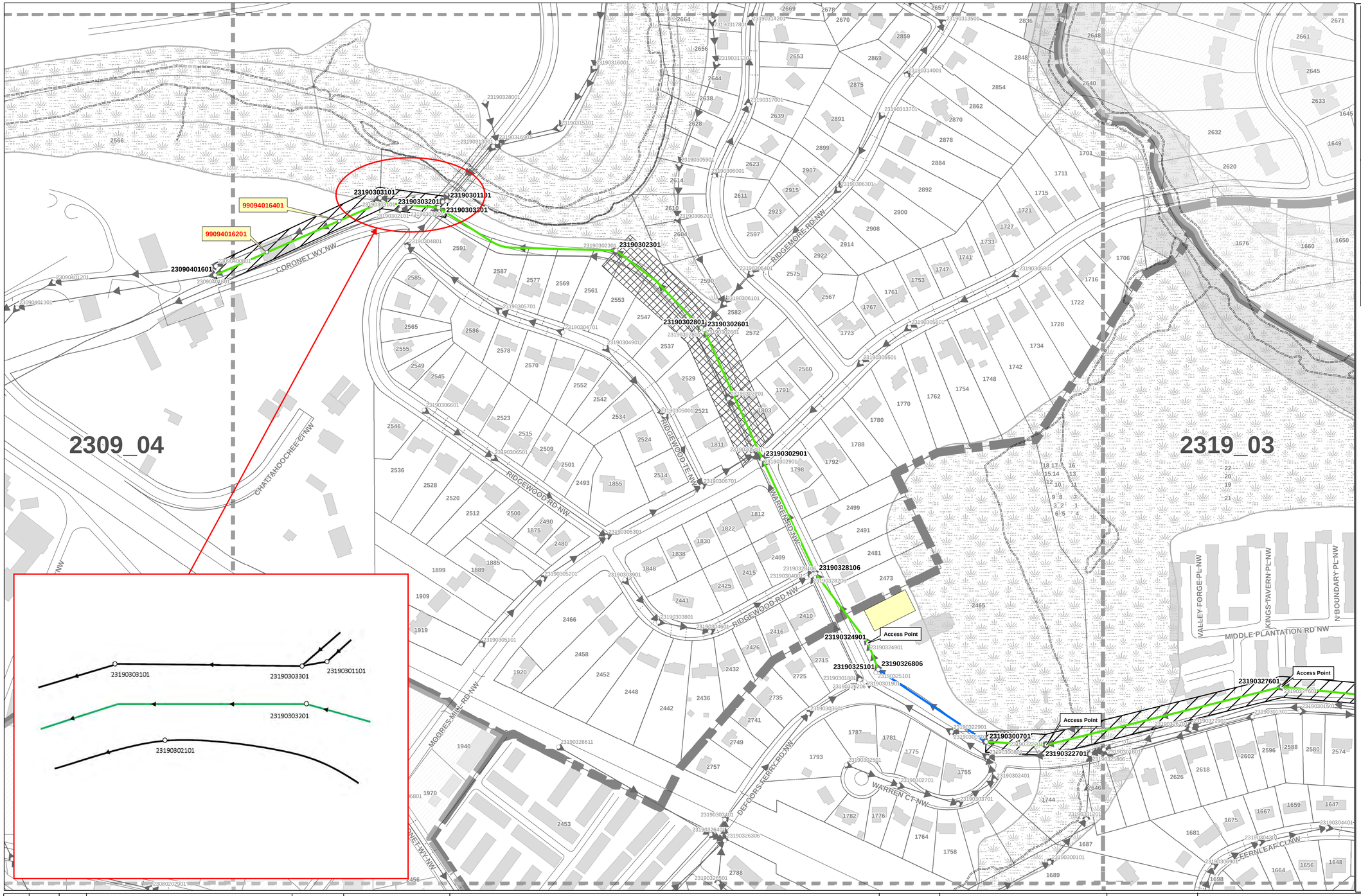
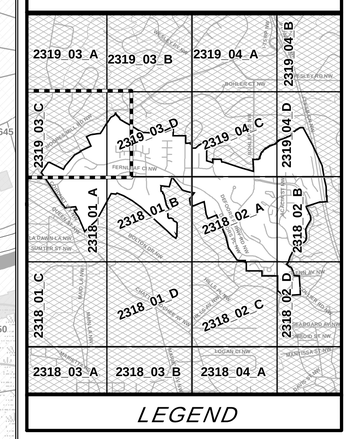
PEACHTREE CREEK TRUNK STABILIZATION
MANHOLE DATA

PTCA and PTC01_02

SHEET 2 OF 2



PTC01_02 KEY MAP



LEGEND

PRIMARY REHAB ASSIGNMENT SYMBOLS

- LINER INSTALLED (~2,400 LF)
- ONLY CLEANING REQUIRED (~5,600 LF)
- TO BE CLEANED AND LINED (~10,300 LF)
- STAGING AREA

SEE WORKTABLES AND COMMENTS FOR EACH PRIMARY REHAB ASSIGNMENT

- Limits Of Easement
- Existing Flowmeter Location
- Existing Manholes
- Existing Sewer Mains
- Install New Manhole
- Manhole Height Adjustment
- Future CIP (NIC)
- Previous Lining (NIC)
- Laterals (approx. location)
- Streets
- Edge of Pavement
- Existing Access Roads
- GIS Tile Boundary
- Sewersheds *Sewershed Boundary*
- Buildings
- Parcels
- Waterways
- 100 YR Floodplain
- Propsed Greenway
- Existing Greenway
- Clearing

Notes

1. SEE WORK TABLES FOR PIPE DIAMETERS, LENGTHS AND MATERIALS FOR CONSTRUCTION.
2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

REV	DATE	BY	DESCRIPTION

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PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTCA and PTC01_02

PLAN SHEET 2319_03_C

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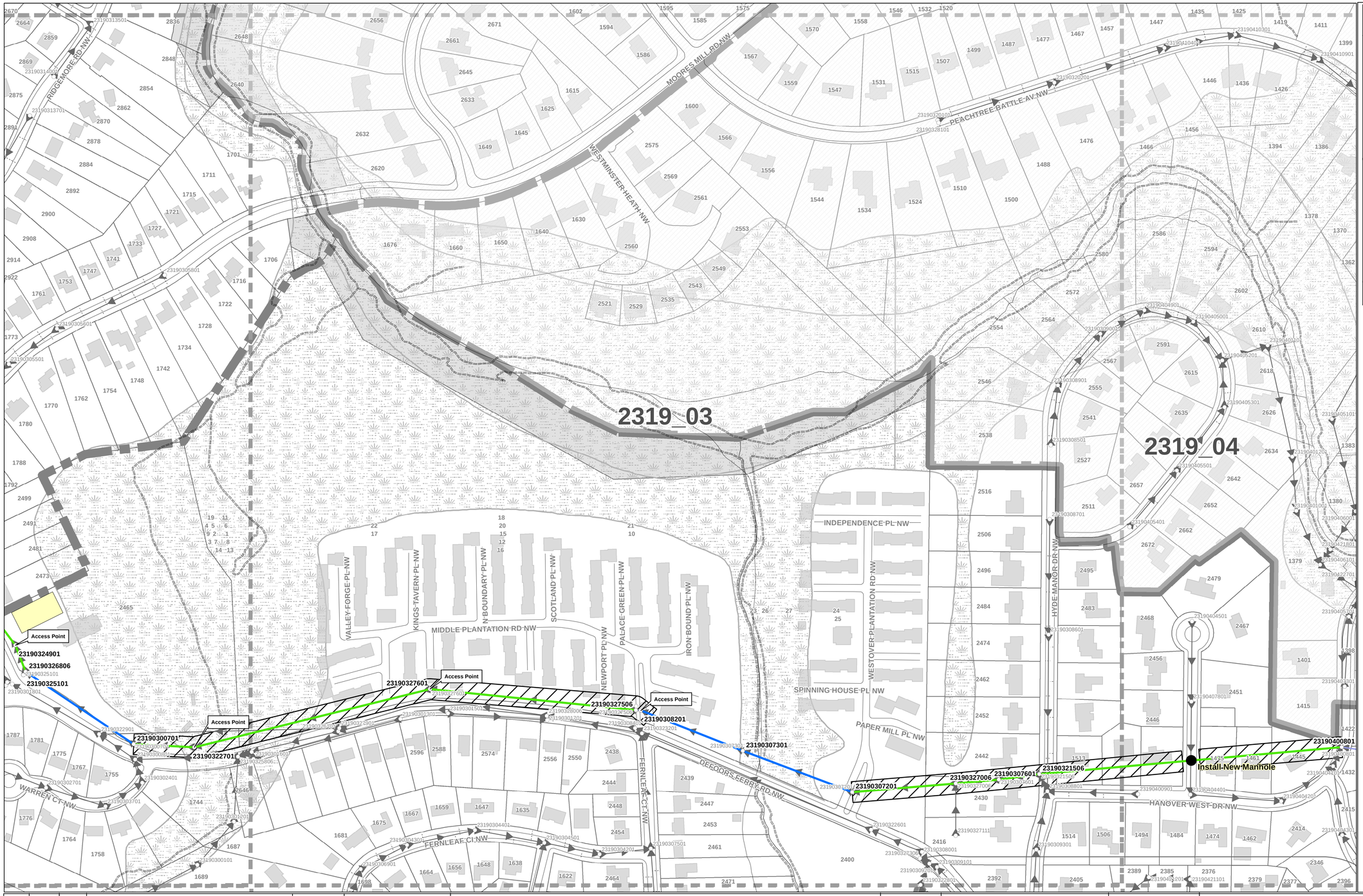

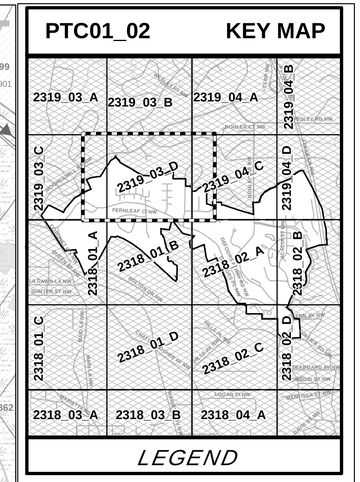

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PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTCA and PTC01_02

PLAN SHEET 2319_03_D

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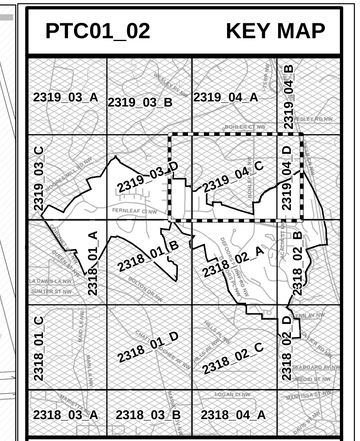
PTC01_02 KEY MAP



LEGEND

PRIMARY REHAB ASSIGNMENT SYMBOLS

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Notes

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PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTCA and PTC01_02

PLAN SHEET 2319_04_C

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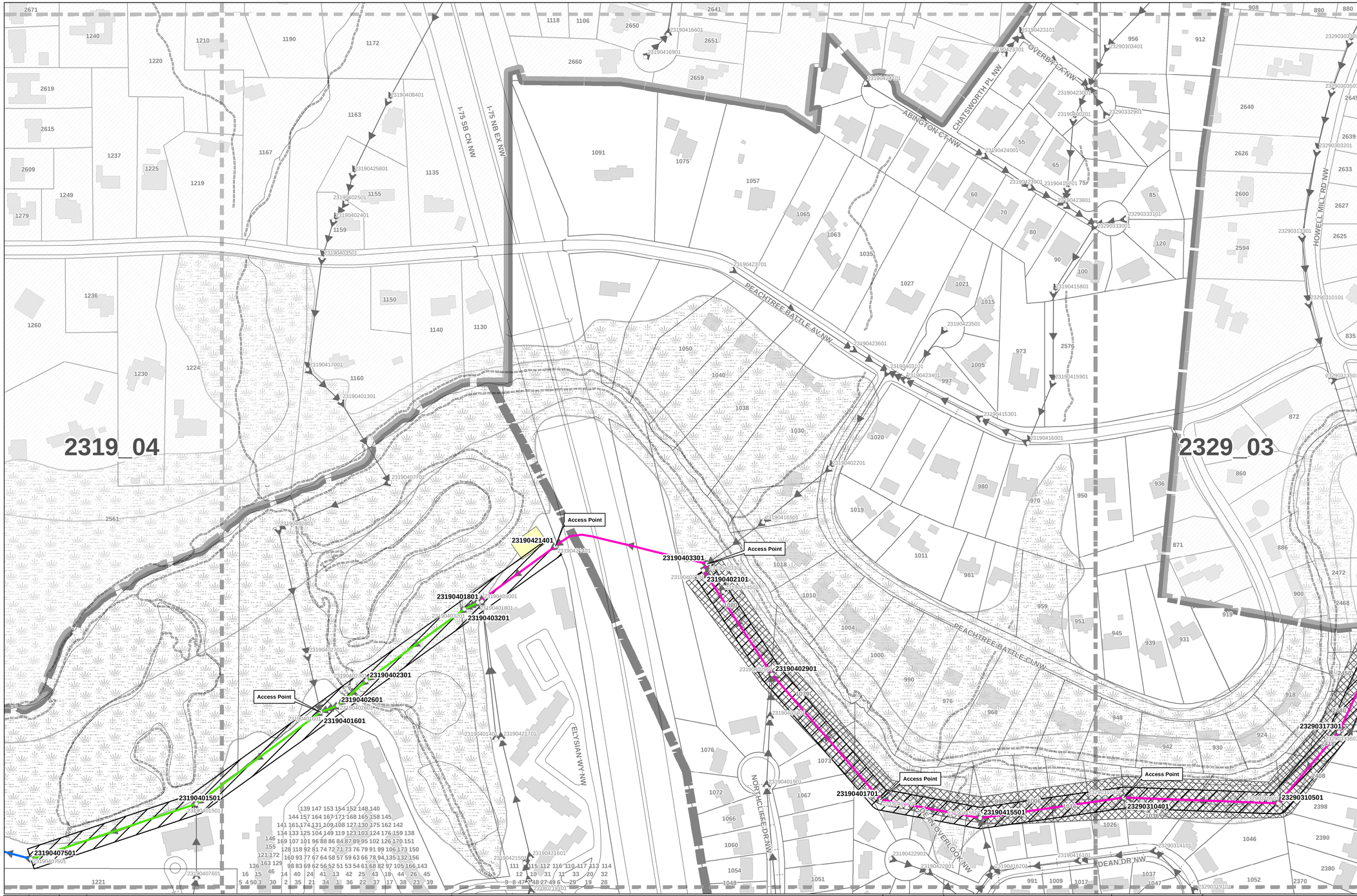

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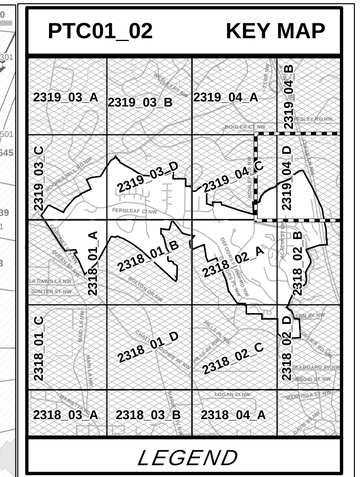

LEGEND

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Notes

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File Location: M:\GIS\Projects\Ticket_Number\Ticket_Number_124_PeachtreeCreek\Binder1_CL4.mxd DATE: 9/6/2012 11:38:36 AM

REV	DATE	BY	DESCRIPTION

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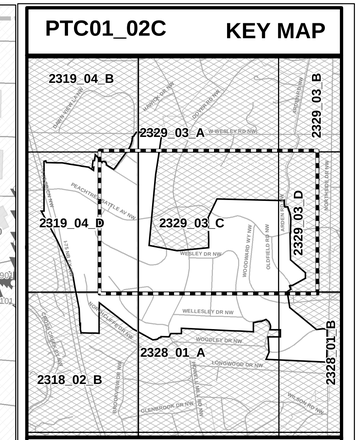
PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTCA and PTC01_02

PLAN SHEET

2319_04_D

PTC01_02C KEY MAP



LEGEND

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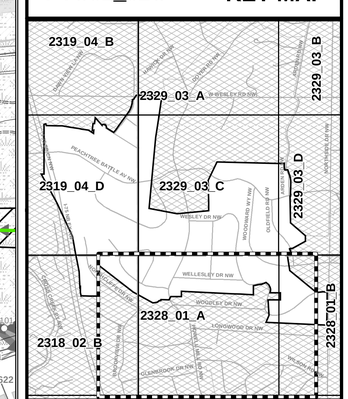
PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTC01_02C

PLAN SHEET 2329_03_C

File Location: M:\GIS\Projects\Ticket_Number\Ticket_Number_124_PeachtreeCreek\Binder1_CL5_mxdDATE: 9/6/2012 11:38:36 AM

PTC01_02C KEY MAP



LEGEND

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PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTC01_02C

PLAN SHEET 2328_01_A

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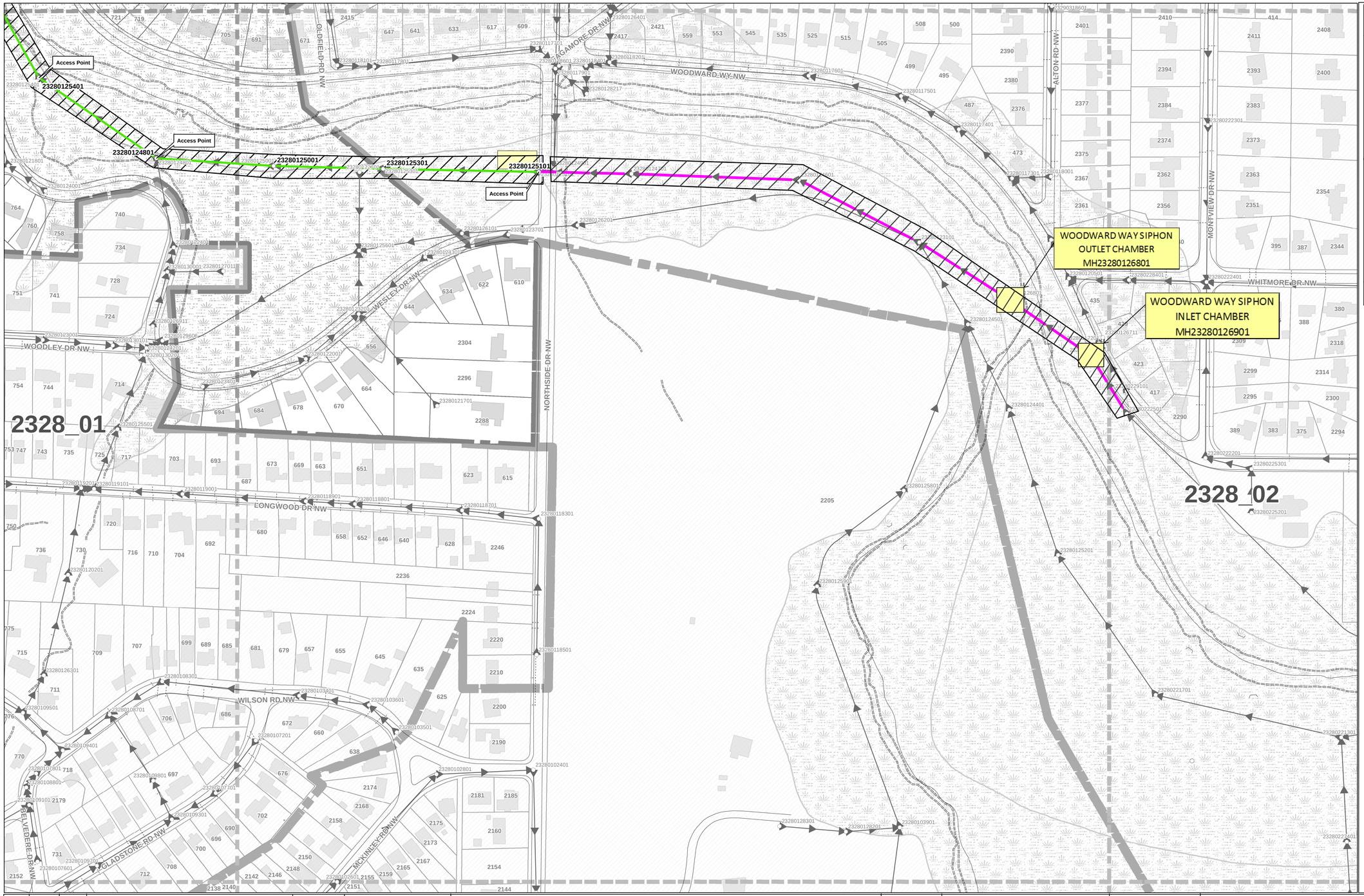
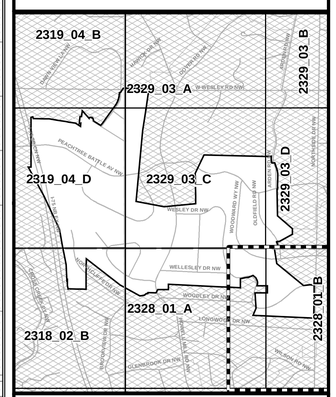


PTC01_02C KEY MAP



LEGEND

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Notes

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2. THE LOCATION OF SERVICE CONNECTIONS SHOWN ARE ONLY APPROXIMATE AND DO NOT NECESSARILY INCLUDE ALL SERVICE CONNECTIONS.

File Location: M:\GIS\Projects\Ticket_NumberTicket_Number_124_PeachtreeCreek\Binder1_CL7.mxd DATE: 9/6/2012 11:38:36 AM

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PEACHTREE CREEK TRUNK STABILIZATION EASEMENT AND DISTURBANCE LIMITS

PTC01_02C

PLAN SHEET

2328_01_B

	Tax ID	Address	Existing Sewer Easements	MH IDs	PipeIDs	Defined/Undefined	Limits of easement (ft)
1	17 0220 LL030	2465 Warren Rd. NW	F4208-181	23190324901 and 23190326806 (blind tie)		Undefined	20
			F5578-516			Undefined	20
			PBF48-66			Undefined	20
2	17 0231 LL035	2566 Chattahoochee Cir. NW	F3771-495	23090401601, 99094016Z01, 99094016Y01, 23190303201		Undefined	20
3	17 0184 LL011	2440 Howell Mill Rd. NW	F1599-114	No MHs	23290319001T23290317301 crosses both parcels - cleaning only	Undefined	20
			E1759			Undefined	20
4	17 0184 LL012	2450 Howell Mill Rd. NW	F1599-114	No MHs		Undefined	20
			E1759			Undefined	20
5	17 01840004001	2418 Howell Mill Rd. NW	F1599-114	2329031701		Undefined	20
			E1759			Undefined	20
6	17 01840004002	2408 Howell Mill Rd. NW	F1599-114	No MHs	23290317301T232903105101 crosses parcel -cleaning only	Undefined	20
			E1759			Undefined	20
7	17 01840004003	2398 Howell Mill Rd. NW	F1599-114	23290310501		Undefined	20
			E1759			Undefined	20
8	17 01840004026	998 Dean Dr. NW	E229	No MHs on parcel	23290310401T23190415501 crosses parcel- cleaning only	Undefined	20
9	17 01840004027	1006 Dean Dr. NW	E229	No MHs on parcel	23290310401T23190415501 crosses parcel- cleaning only	Undefined	20
10	17 01840004028	1016 Dean Dr. NW	E229	No MHs on parcel	23290310401T23190415501 crosses parcel- cleaning only	Undefined	20
11	17 01840004029	1026 Dean Dr. NW	E229	23290310401	23290310401T23190415501 crosses parcel- cleaning only	Undefined	20
12	17 01840004030	1036 Dean Dr. NW	E229	23290310401		Undefined	20
13	17 01840004031	1040 Dean Dr. NW	E229	No MHs on parcel	23290310501T23290310401 crosses parcel - cleaning only	Undefined	20
14	17 01840004032	1046 Dean Dr. NW	E229	No MHs on parcel	23290310501T23290310401 crosses parcel - cleaning only	Undefined	20
15	17 01840005006	1080 Northcliffe Dr. NW	F2305-397	23190402101, 2319040331	23190402901T23190402101 crosses parcel -cleaning only; 23190402101T23190403301 is on this parcel -cleaning only	Undefined	20
16	17 01840005007	1079 Northcliffe Dr. NW	F2305-397	23190402901		Undefined	20
17	17 01840005008	1073 Northcliffe Dr. NW	F2305-397		23190401701T23190402901 crosses parcel- cleaning only	Undefined	20
18	17 01840005009	1067 Northcliffe Dr. NW	F2305-397		23190401701T23190402901 crosses parcel- cleaning only	Undefined	20
19	17 01840009001	0 Dean Overlook Dr. NW	E229	23190415501		Undefined	20
20	17 01840009002	12 Dean Overlook Dr. NW	E229	No MHs on parcel	23190415501T23190401701 crosses parcel- cleaning only		20
21	17 01840009003	14 Dean Overlook Dr. NW	E229	No MHs on parcel	23190415501T23190401701 crosses parcel- cleaning only		20
22	17 01840009004	16 Dean Overlook Dr. NW	E229	23190401701			20
23	17 01840009006	18 Dean Overlook Dr. NW	E229	No MHs on parcel	23190401701T23190402901 crosses parcel- cleaning only		20

	Tax ID	Address	Existing Sewer Easements	MH IDs	PipeIDs	Defined/Undefined	Limits of easement (ft)
24	17 0184 LL038	0-75 NW	F2305-397	23190421401, 23190401801, 23190403201, 23190402301, 23190402601	23190421401T23190401801- cleaning only; 23190401801T23190403201 - To be lined; 23190403201T23190402301- To be lined; 23190402301T23190402601- To be lined	Undefined	20
			F4909-412			Undefined	20
25	17 01840006012	12 Chaumont SQ NW	F2305-397	23190401601, 23190402601, 23190401501	23190402601T23190401601- To be lined; 23190401601T23190401501- To be lined	Undefined	20
26	17 0195 LL069	0 Cross Creek Pkwy NW	F1569-311	23190401501, 23190407501	23190401501T23190407501- To be lined	Defined	30
			F4909-412			Undefined	20
			PBF90-92			Undefined	20
27	17 01950005026	1445 Hanover West Dr. NW	PBF68-130	23190400801		Undefined	20
			PBF70-119			Undefined	20
28	17 01950006001	1487 Hanover Dr. W	PBF68-130	No MHs on parcel	23190400801T23190321506 crosses parcel- To be lined	Undefined	20
			PBF70-119			Undefined	20
			PBF73-23			Undefined	20
29	17 01950006009	1475 Hanover Dr. W	PBF68-130	No MHs on parcel	23190400801T23190321506 crosses parcel- To be lined	Undefined	20
			PBF70-119			Undefined	20
30	17 01950006010	1461 Hanover Dr. W	PBF68-130	No MHs on parcel	23190400801T23190321506 crosses parcel- To be lined	Undefined	20
			PBF70-119			Undefined	20
31	17 01950006020	1513 Hanover Dr. W	PBF68-130	No MHs on parcel	23190400801T23190321506 crosses parcel- To be lined	Undefined	20
			PBF70-119			Undefined	20
32	17 01950006021	1499 Hanover Dr. W	PBF68-130	No MHs on parcel	23190400801T23190321506 crosses parcel- To be lined	Undefined	20
			PBF70-119			Undefined	20
			PBF73-23			Undefined	20
33	17 01950006039	2430 Hyde Manor Dr. NW	PBF92-11	23190321506, 23190307601, 23190327006	23190321506T23190307601- To be lined; 23190307601T23190327006 (blind tie)- To be lined	Undefined	20
			PBF68-130			Undefined	20
			PBF73-23			Undefined	20
35	17 02200007042	19 Independence Place	PBF68-130	23190327006 (blind tie)		Undefined	20
			F2946-453			Undefined	20
			PBF48-66			Undefined	20
36	17 01850006001	1 Arpege Way	NA – Research by request only –				
			No MH – Access from street.				
37	17 01540008049	834 Wesley Dr. NW	NA – Research by request only –				
			No MH – Access from street.				
38	17 01540008048	822 Wesley Dr. NW	NA – Research by request only –				
			No MH – Access from street.				
39	17 02200001034	2473 Warren Rd. NW	By request only –				
			No MH – Access from street.				

REV	DATE	BY	DESCRIPTION

SCALE

N.T.S.

WARNING

IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE

DESIGNED —

DRAWN

CHECKED

This document originally issued and sealed by Thomas Corbin, 14380, on 08/06/2015.

This medium shall not be considered a certified document.

CITY OF ATLANTA

PEACHTREE CREEK TRUNK STABILIZATION
EASEMENT AND DISTURBANCE LIMITS

EASEMENT LIMITS

SHEET

1 OF 1