

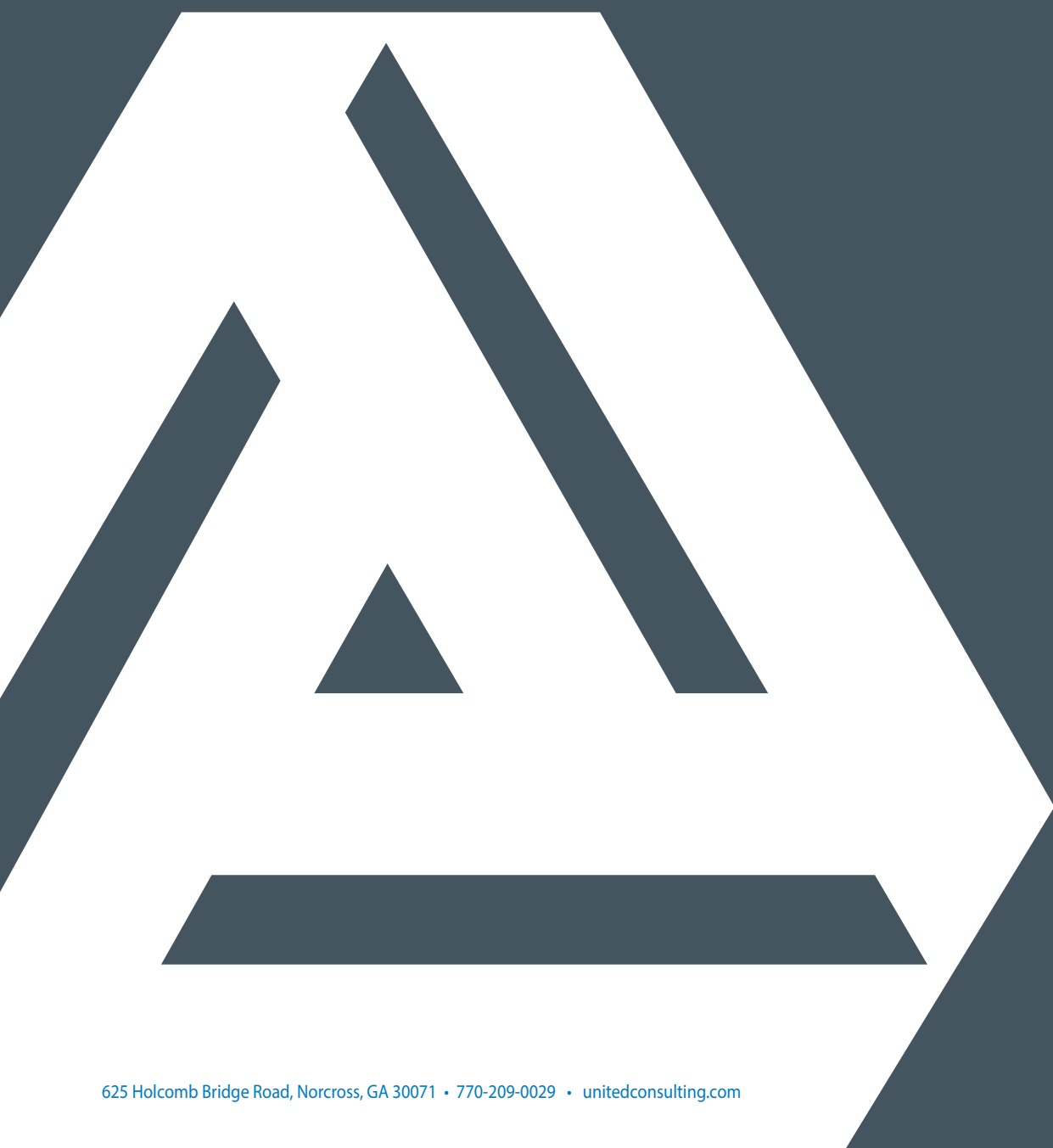


UNITED
CONSULTING

REPORT

For
Atlanta BeltLine, Inc.

Soil & Groundwater Management Plan
Atlanta BeltLine – Northeast Trail
Westminster Dr NE to Plasters Ave NE
STA. 95+00 to 158+23.03 and
STA. 403+00 to 501+00
Atlanta, Fulton County, Georgia



December 30, 2021

Atlanta BeltLine, Inc.

c/o

Mr. Sean Johnston, P.E., Vice President

Kimley-Horn

817 West Peachtree Street NW

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Via Email: Sean.Johnston@kimley-horn.com

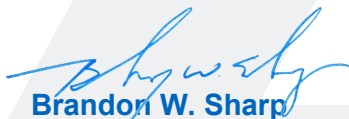
RE: Soil & Groundwater Management Plan
Atlanta BeltLine – Northeast Trail (portions of)
Westminster Drive NE to Plasters Avenue NE
STA. 95+00 to 158+23.03 and STA. 403+00 to 501+00
Atlanta, Fulton County, Georgia
Project No.: KMHRN-21-GA-05802-01

Dear Mr. Johnston:

United Consulting is pleased to submit this Soil and Groundwater Management Plan (SGMP) for the above-referenced site (hereinafter referred to as the Project Site). This document describes the known impacted areas and outlines the criteria for management or removal of impacted soils/groundwater during construction activities. This SGMP should be updated based on additional testing data, as the development process progresses, or if unforeseen conditions are encountered during the site work activities. Should you have any questions regarding this project, we invite you to call at your convenience. Thank you for the opportunity to provide our services.

Sincerely,

UNITED CONSULTING



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SharePoint: KMHRN-21-GA-05802-01.SGMP

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1.0 EXECUTIVE SUMMARY

This Soil and Groundwater Management Plan (SGMP) is intended to provide guidance and options (to be selected by the Owner) on how the General Contractor (GC) and their sub-contractors are to handle soils and groundwater from the Project Site (as well as from offsite sources for import, as needed) and the areas where grading and other construction activities may potentially encounter impacted soil and/or groundwater. The location and limits of the Project Site are illustrated on Figures 1 and 2. A brief summary of this information is provided below. The text of the report must be reviewed in full for additional details.

- A site meeting shall be established by the GC prior to the onset of this work to establish an understanding of the approach, field feasibility, and sequencing. Alterations to this SGMP are possible, as approved by the Owner (Atlanta BeltLine, Inc; ABI) and their Environmental Consultant (Consultant; United Consulting). At that meeting should be the Owner, Civil Engineer, Consultant, GC, grading contractor, remediation contractor (RC), and construction materials testing representative, at a minimum.
- A Brownfield application for the Project Site, via a Prospective Purchaser Corrective Action Plan (PPCAP), was submitted to and approved by the Environmental Protection Division (EPD). The Owner of the Project Site has elected to certify the Project Site to non-residential Type 3/4 risk reduction standards (RRSs) for all non-arsenic constituents and a Type 5 RRS approach for arsenic.
- Within this SGMP, the Project Site is subdivided into three sections (i.e. the northern interim trail, the central partially-completed trail, and the southern interim trail). These sections and their limits are illustrated on Figure 3. It is our understanding that the concrete trail of the central portion was completed in April 2021; however, the completion of the Type 5 composite sampling remains to be completed (except at the pond footprints). Furthermore, according to our understanding, only the interim portions of the Northeast Trail (NE Trail) require remediation considerations at this time, as remedial activities have reportedly been conducted on the central portion of the Project Site.
- Based on the soil sampling performed at the Project Site to date, soils requiring remediation (i.e. excavation and appropriate landfill disposal) have been identified at four areas (referenced within this SGMP as Remediation Areas). At this time, vertical/horizontal delineation has not been completed for each Remediation Area and known utility conflicts represent a limiting condition. As such, some soil impacts remain undefined and will require additional confirmatory sampling. The approximate limits of remediation, as currently established and based on known utility conflicts, are illustrated on Figures 6A through 6D. Actual limits will be based on field conditions and/or added removal confirmation sampling.
- The estimated volume of these four areas is approximately 300 cubic yards (CY). Actual volumes will be based on the final remedial limits. For these areas, the GC and their RC are responsible for excavation, transportation, and landfill disposal activities. Additionally, the GC/RC is responsible for securing landfill acceptance and preparing the necessary disposal profiles/manifests for the



Owner (or their designees) to sign. Disposal manifests are required to be maintained. If the remediated soils are not directly loaded into roll-offs or trucks, soils are to be stockpiled on plastic sheeting, bermed, and covered, as to not cross-contaminate the existing compliance surface conditions in this area.

- According to the cut/fill analysis provided by Kimley-Horn, it is our understanding that approximately 6,500 CY of fill will be required to facilitate construction of the Project Site. Soil imported to the Project Site must be documented as meeting cleanup standards prior to import. Existing analytical data must be obtained on the borrow source, or sampling and analysis is required prior to import. The GC is required to obtain the existing data and present it to the Owner and Consultant, or the Consultant should be notified by the GC at least 7 days in advance of importing that the borrow source(s) requires sampling. The GC is responsible for identifying the borrow source and having equipment at the source for the Consultant to collect the samples. The import must be approved by the Owner and Consultant prior to the import activity.
- Based on the soil sampling performed at the Project Site to date, excluding those soils at the four Remediation Areas, the remaining soil impacts have not been detected at concentrations which require remediation under the planned Type 3/4 and Type 5 RRS approach. However, some of this remaining soil is impacted, and the extent of such impacted soil has not been defined. In accordance with the Type 5 RRS approach (for arsenic), following grading and construction of the trail and prior to the installation of the final landscaping, confirmatory arsenic composite sampling will be conducted by the Consultant in approximate half-acre units relative to the surficial one foot of final soil cover. Generally, this will include obtaining samples in five-point grids across half-acre units. Detected concentrations will be compared to the approved Type 5 RRS for arsenic of 63 milligrams per kilogram (mg/Kg). If detectable concentrations of arsenic are greater than 63 mg/Kg, additional remediation and backfilling (with clean import soil) may be required by the GC.
- Due to this, the Owner has elected for the following management procedures relative to the grading activities, once the four Remediation Areas are addressed:
 - Existing fill material that requires undercutting for the construction process that is black to dark gray in color should be re-used within the existing railroad corridor as fill at least one foot below the final grades, or directly below the final concrete trail, provided that it is geotechnically suitable. Such soils, if reused, should be segregated and stockpiled separately so that the areas for reuse are documented by the GC. If this material cannot be reused in these areas, and they require export, they must be disposed of at an appropriately licensed landfill.
 - Without prior consultation and approval by the Owner, soils from the northern or southern interim trails cannot be placed on the central partially-completed trail (or vice versa).
 - With exception to the above, fill and/or residual soils which are not discolored and require undercutting for the construction process should be reused on the Project Site as fill, where allowable. This material can be used up to the final grades. This is provided it is geotechnically suitable. If this material cannot be reused in these areas on the Project

Site, they must be stockpiled and characterized to allow for the Owner to select the off-site management of the soils. In this instance, the Consultant would characterize the stockpile and coordinate with the Owner, then provide the GC with the Owner's management selection. Such management may include:

- Placement on other property (i.e. construction site);
 - Disposal at a Construction and Demolition (C&D) landfill (if acceptable to such landfill);
 - Disposal in a Subtitle D landfill; and
 - Placement at a Subtitle D landfill for use as daily cover.
- Additionally, based on its proximity to Clear Creek, additional permitting from the Army Corp of Engineers and/or the City of Atlanta may be required to facilitate the required delineation/remediation work (at Remediation Area 2). This condition will require coordination between the GC, Owner, Civil Engineer, and the Consultant.
 - We understand that some horizontal boring work is planned and lighting/security pedestrian poles will be installed on the partially-completed central portion of the Project Site. The GC must separate and stockpile these materials for assessment and/or testing by the Consultant. Soils generated are to be stockpiled on plastic sheeting, bermed, and covered, as to not cross-contaminate the existing compliance surface conditions in this area. Based on observations and associated testing, if conducted, these materials will be managed in accordance with this SGMP. Further, aside from the existing pond areas, the Type 5 composite sampling has not yet been conducted in this area. The Consultant will perform that needed sampling in this area following the required loosening of surficial soils by the GC and prior to final landscaping.
 - Once the Remediation Areas are remediated by the RC, the remaining soils can be managed by the GC in accordance with Section 7.3. This is provided the GC meets OSHA requirements and regulatory compliance requirements in Sections 9 and 10 to manage such conditions.
 - If unusual subsurface environmental conditions, including unusual odors, staining, pooled liquids, buried tanks, drums, debris, or burial pits, etc. are discovered during site work activities, the GC should temporarily stop work, and contact the Consultant so the conditions can be assessed and incorporated into this plan. The GC is responsible for notifying the Owner and Consultant of such conditions. Based on the observations and associated testing, if conducted, the materials will be managed in accordance with this SGMP.
 - Impacted groundwater has been identified beneath the southern portion of the Project Site, as illustrated on Figure 5. If groundwater is encountered by the GC during construction activities, or the disturbance of soils below groundwater is required, and needs to be managed to facilitate construction, the GC is to contact the Owner and Consultant prior to management of such water and/or soils. Depending on the location, additional testing may be required to determine the appropriate management methods. If impacted, such groundwater will likely either need to be pumped into a frac tank for analysis/appropriate offsite disposal and/or pumped into the public

sanitary sewer under an approved discharge permit. The GC is responsible for coordinating, permitting, and disposing of such impacted groundwater.

- Soil management at the Project Site is to be documented for the Owner. The Consultant is required to be on-site during the needed remediation activities. The GC is required to provide the Consultant with the landfill disposal manifests. The GC is responsible for documenting the remaining aspects of this SGMP.
- Following final site grading, but prior to landscaping placement, the Consultant will perform the required Type 5 sampling activities at each of the three sections (i.e. the northern interim trail, the central partially-completed trail, and the southern interim trail). If no impacts are detected above the appropriate standards, landscape installations can proceed. If impacts are detected above the appropriate standards, the GC will then need to perform additional soil corrective actions, followed by additional sampling.
- Work shall be performed in accordance with Occupational Safety and Health Administration (OSHA) requirements. All companies involved are to prepare their own Health and Safety Plan (HASP) for their workers as it relates to their tasks, and decontamination procedures for their personnel and equipment. The overall safety at the construction site is the responsibility of the GC.

2.0 PURPOSE

United Consulting has prepared this Soil and Groundwater Management Plan (SGMP), on behalf of Atlanta BeltLine, Inc. (Owner), for portions of the Atlanta BeltLine Northeast Trail (NE Trail), hereinafter referred to as the Project Site. Implementation of this SGMP is the responsibility of the general contractor (GC) selected by the Owner. The means and methods for implementation are the responsibility of the GC and their sub-contractors.

Soils on the Project Site will need to meet criteria thresholds as set forth by the State Brownfield Program in order to certify compliance once the project is completed. The purpose of this SGMP is to provide guidance and options (to be selected by the Owner) on how the General Contractor (GC) is to handle soils on the Project Site generally (as well as from offsite sources for import) and the areas where grading may potentially encounter impacted soil. Implementation of this SGMP is the responsibility of the GC that is selected by the Owner. The means and methods for implementation are the responsibility of the GC, and their sub-contractors. This plan addresses the proper procedures for the disposal/handling of impacted groundwater, should it be encountered during construction. Also, it provides a general framework for addressing potential health and safety concerns associated with the needed earthwork activities. Please refer to the final construction plans as provided by the Owner and Civil Engineer for actual construction requirements.

United Consulting understands that the Owner has not selected a GC at this time. United Consulting is the Owner's environmental consultant (Consultant).

3.0 SITE LOCATION, EXISTING, AND PROPOSED CONDITIONS

The Project Site consists of an approximate 1.4-mile section of former railway corridor (portions of), generally located to the west of Monroe Drive NE in Atlanta, Fulton County, Georgia. The general location of the Project Site is illustrated on Figures 1 and 2. For the purposes of this SGMP, the Project Site was subdivided into three sections (i.e. the northern interim trail, the central partially-completed trail, and the southern interim trail). The limits of these three portions are as follows, as further illustrated on Figure 3:

Interim Trail (Northern Section) – GA-13 (Buford Spring Connector) to Plasters Avenue NE
Approx. STA. 148+00 to 158+23.03 and STA. 403+00 to 501+00

Partially-Completed Trail (Central Section) – GA-13 (Buford Spring Connector) to Clear Creek
Approx. STA. 118+00 to 148+00

Interim Trail (Southern Section) – Clear Creek to Westminster Drive NE
Approx. STA. 95+00 to 118+00

The Project Site is part of a planned expansion of the overall Atlanta BeltLine NE Trail, which extends to the south, adjoining to Piedmont Park. Currently the northern and southern portions of the Project Site consist of interim gravel trails situated along the former railway corridor; however, the central section has been partially-completed (with exception of the Type 5 composite sampling that remains to be completed (except at the pond footprints) and planned installation of lighting/security infrastructure).

Similar to other portions of the overall Atlanta BeltLine, the NE Trail is designed as a public transportation right-of-way within a 'green' setting. Generally, the proposed final trail construction is proposed along the northern and western sides (depending on the historical rail bed orientation) of the corridor, preserving space for future transit on the southern and eastern sides. The proposed final trail is generally being designed to accommodate walking, jogging, biking, roller skating, roller blading, as well as wheelchairs and mobility aids for the disabled. Once completed, the NE Trail will connect the Atlanta BeltLine Westside and Eastside Trails.

4.0 BACKGROUND

4.1 History

The Atlanta BeltLine is a comprehensive economic development and urban redevelopment effort in the City of Atlanta. The Atlanta BeltLine is envisioned as a combination of greenspace, trails, transit, and new development along 22-miles of historical rail segments which encircle the urban core of Atlanta. The project is one of the largest efforts underway to remediate and redevelop environmentally impacted properties for the long-term benefit of the community. The Atlanta BeltLine has been separated into various segments, with the Project Site consisting of a portion of the overall NE Trail. The following summarizes environmental investigations and communications between ABI, various consultants, and the Georgia EPD regarding the overall Atlanta BeltLine project.

An initial Brownfield application was submitted to the EPD in December 2004 for the North Avenue BeltLine Tract in the form of a Brownfield Corrective Action Plan (CAP). Since that time, ABI and the Atlanta Development Authority (ADA) has submitted numerous Amendments to the CAP.

In 2010, ABI and the ADA submitted an Amendment to the CAP to consolidate separate CAPs into a single, revised CAP under the name Atlanta BeltLine Properties. In addition, parcels were added to incorporate them as part of the Atlanta BeltLine Properties under the approved Brownfield CAP. EPD subsequently provided a letter approving the requested Amendment and acknowledged that additional parcels will be incorporated into the Atlanta BeltLine Properties CAP as property acquisitions and developments proceed.

As described in the approved 2010 CAP Amendment #1, areas which warrant corrective action, will require confirmation soil sampling to further define the limits of impacted soil on the Project Site which exceed applicable soil Risk Reduction Standards (RRS). Soil areas which exceed the RRS will then be subject to further corrective action in order to bring the site into compliance with the approved CAP. Since future use of the Atlanta BeltLine is as a linear system of trails, transit, and green space, the primary intent of the applicants is to comply with non-residential soil RRS (Type 3/4). Where feasible, compliance with residential soil RRS (Type 1 or 2) is an optional goal. Where compliance with Type 1-4 soil RRS is technically impracticable, remedial action consistent with a Type 5 RRS approach will be executed.

In March 2011, CAP Amendment #2 was submitted, which established a procedure whereby EPD will review and approve a site-specific Appendices to the CAP for each segment of the Atlanta BeltLine. The Amendment also included a presentation of various soil RRS, which were planned for use during the various corrective actions. On April 14, 2011, EPD approved CAP Amendment #2, which included Appendix B for the Eastside Trail Project (10th Street and Monroe Drive south to DeKalb Avenue). The approval letter also approved certain RRS, which included those listed in Section A.2 of the Amendment.

As part of various investigations, arsenic was identified as a non-point source relic from the historical application of pesticides along the railroad corridor and therefore is exempt as a regulated substance. Although arsenic was considered to be an unregulated substance, ABI chose to give special attention

to the arsenic impacts and a Type 5 RRS was developed. Under the developed Type 5 RRS approach, the use of engineering controls (i.e. exposure barriers) was selected to limit exposure as remediation of the extensive sporadic arsenic impacts was not feasible.

In April 2015, Appendix D to CAP Amendment #2 was submitted, specifically related to the NE Trail portion of the Atlanta BeltLine. The purpose of the submittal was to provide EPD with soil and groundwater data for the NE Trail portion of the Atlanta BeltLine corridor and to propose the corrective action approach for this section.

4.2 Phase I & Phase II Environmental Site Assessments, MACTEC (2004-2006)

Between November 2004 and December 2006, Amec Foster Wheeler (Amec, formerly MACTEC) conducted several Phase I and Phase II Environmental Site Assessments (ESAs) on parcels associated with the NE Trail corridor, specifically referred to as the Ansley North, Ansley South, and Piedmont parcels. Additional site assessment investigations were subsequently performed in 2006. A summary of these site assessment activities is presented below, discussed by parcel:

Ansley North – As part of a Phase II conducted in 2004, four soil borings (TW-3, B-1, MW-1, and MW-2) and two shallow hand augers (SS-2 and SS-3) were advanced. One soil sample from each boring was collected and submitted for laboratory analysis. Two of these borings (TW-3 and MW-2) were converted to monitoring wells and an additional well was installed (MW-4). Soil samples were tested for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The shallow soil samples (from SS-2 and SS-3) were tested for PAHs only. Groundwater samples were variously analyzed for VOCs, PAHs, semi-VOCs (SVOCs), total/dissolved RCRA metals, and polychlorinated biphenyls (PCBs). In 2006, Ansley North Beltline, LLC decided to subdivide and sell a sub-parcel of the Ansley North Parcel to Ansley Golf Club. Prior to the conveyance, additional soil and groundwater testing was conducted on both the sub-parcel and the remainder of the Ansley North parcel. The sampling scope within the current boundaries of the Ansley North parcel consisted of five soil borings/monitoring wells (GW-4 through GW-8 and a deep well, DW-1). Soil samples were tested for VOCs, SVOCs and various metals. The 2006 groundwater samples were analyzed for VOCs, SVOCs and total/dissolved metals.

Ansley South – As part of the Phase II conducted in 2004, one soil boring (B-5) and one groundwater monitoring well (MW-6) were advanced and installed on this parcel. At boring B-5, auger refusal was encountered and was subsequently not sampled. A soil sample was collected from MW-6 and tested for the presence of VOCs and PAHs. A groundwater sample was collected from MW-6 and tested for VOCs and total and dissolved metals.

Piedmont – Additionally as a part of the 2004 Phase II, six soil borings were advanced and converted into monitoring wells (TW-38, TW-7 through TW-9, TW-12, and MW-10). Two soil borings were advanced (B-11 and B-39), however, samples were collected. Soil samples were collected from all borings (TW-38, TW-7 through TW-9, TW-12, and MW-10) and tested for the presence of VOCs and PAHs. Groundwater samples were collected from the six monitoring wells and tested for VOCs. The selected analytical testing suite varied depending on location, which generally included PAHs, PCBs, SVOCs, and/or total/dissolved metals. Additional soil and groundwater sampling was conducted on the southern portion of the associated corridor in August 2005 as part of a due diligence investigation, in

which an additional monitoring well (MW-1) was installed. No soil samples were collected for laboratory analysis based on field screening; however, a groundwater sample was collected and submitted for the analysis of VOCs.

4.3 NE Trail Corridor Site Characterization, Amec Foster Wheeler (2014)

In 2014, Amec obtained soil and groundwater samples from select locations throughout the NE Trail corridor to evaluate the general extent of areas that would require soil remediation and/or additional corrective action. As part of this assessment, an additional 42 soil borings and 8 monitoring wells were advanced and installed throughout the NE Trail corridor (including then-associated adjoining properties), spaced at intervals consistent with the approved CAP Amendment #2.

The soil samples collected from this assessment were variously submitted for the laboratory analysis of VOCs, SVOCs, RCRA metals, cyanide, phenolics, pesticides and PCBs, dependent on location (Ansley North, Ansley South, and Piedmont). From this assessment, several constituents were identified in exceedance of their applicable Type 3/4 RRS, including four remaining areas within the limits of the Project Site (i.e. Remediation Areas 1 through 4 as discussed in Section 5.1), for benzo(a)pyrene and arsenic.

4.4 Phase II ESA, United Consulting (December 2021)

In December 2021, based on the previous findings as summarized above, United Consulting mobilized to the northern section of the Project Site to conduct initial site characterization sampling, in accordance with Appendix D of CAP Amendment #2 for the NE Trail. This sampling was performed in areas not previously assessed by Amec. As part of this assessment, eight direct push borings were advanced on the northern section of the Project Site to facilitate soil and/or groundwater sampling (designated as UCSB-1 through UCSB-3 and UCMW-1 through UCMW-5). However, due to refusal conditions encountered at three of the five proposed groundwater sample locations, a deeper soil sample was collected in lieu of groundwater (at UCMW-2 through UCMW-4). The soil and groundwater samples collected from the northern section of the Project Site were subsequently submitted for the laboratory analysis of VOCs, SVOCs, and RCRA metals (including total and dissolved analyses for groundwater).

Several SVOCs and RCRA metals (arsenic, barium, chromium, and lead) were variously detected in the samples collected from the Project Site. However, no constituent detections were identified in exceedance of their respective non-residential Type 3 risk reduction standards (RRSs), as approved within CAP Amendment #2. Barium and chromium were variously detected in the groundwater samples submitted for metals analyses; however, these detections were below regulatory standards and do not appear to indicate a metals release to groundwater. Furthermore, no constituents were identified in exceedance of their approved Type 3 RRS. Therefore, no soil corrective actions were required in the areas tested.

5.0 DISTRIBUTION OF SOIL IMPACTS

Based on the distribution of impacts across the Project Site, the Owner, under the approved CAP has elected to certify the Project Site to non-residential Type 3/4 RRSs for non-arsenic constituents and a Type 5 RRS approach for arsenic. Soils with known non-arsenic constituents concentrations above the EPD approved non-residential RRS require removal and landfill disposal. For arsenic, sample locations with concentrations identified above 38.12 mg/Kg require removal, in accordance with Appendix D to CAP Amendment #2. Based on the soil sampling performed to date, soil impacts that require remediation under the EPD approved PPCAP, as amended, have been identified at four separate locations, each located on the south segment of the interim trail of the Project Site.

As detailed within Appendix D to CAP Amendment #2, following remediation actions, arsenic concentrations may remain above the non-residential RRS of 38.12 mg/Kg; however, these impacted soils can remain onsite due to the approved Type 5 RRS approach, which is further discussed below. Special management of the remaining impacted soils on the Project Site, post-removal of the four removal areas is required as detailed below in Section 7. A Section Overview and Soil Quality Maps are included as Figures 4A through 4C, which generally illustrate the approximate limits of each Remediation Area (the four locations are located on Figure 4C). The soil analytical testing data is summarized in Table 1.

5.1 Soil Impacts Requiring Remediation

Remediation Area 1

For Remediation Area 1 (GP-272+29), arsenic impacts have been identified in soil collected from 1 to 3 feet bgs. In accordance with Appendix D to CAP Amendment #2 and as originally illustrated by Amec, additional step-out borings were not advanced. Instead the excavation at this location will extend 15 feet laterally from the boring with an initial exceedance. Based on review of the provided final plans for the NE Trail, no apparent fill placement is anticipated in the vicinity; therefore, the required vertical excavation depth is 1 foot. Based on the established remediation limits, Remediation Area 1 equates to approximately 707 square feet. The soils requiring disposal equate to approximately 26 cubic yards of soil, or approximately 39 tons of soil, which with a 20% contingency is approximately 47 tons. The limits of Remediation Area 1 are illustrated on Figure 6A. The actual limits and volumes will be based on field conditions.

Remediation Area 2

For Remediation Area 2 (MW-268+04), benzo(a)pyrene impacts have been identified in soil collected from 6 to 7.5 feet bgs. At this time, horizontal and vertical delineation sampling has not been conducted. Based on the presence of known utility conflicts and its proximity to the 25-foot State Water Buffer, the required delineation sampling/remediation activities may also require appropriate permitting from the Army Corps of Engineers and/or the City of Atlanta. This condition will require coordination between the GC, Owner, Civil Engineer, and the Consultant. At this time, utilizing estimated vertical and horizontal remediation limits, Remediation Area 2 equates to approximately 375 square feet. The soils requiring disposal equate to approximately 104 cubic yards of soil, or approximately 156 tons of

soil, which with a 20% contingency is approximately 188 tons. The limits of Remediation Area 2 are illustrated on Figure 6B. The actual limits and volumes will be based on field conditions and added removal confirmation sampling.

Remediation Area 3

For Remediation Area 3 (GP-258+69), arsenic impacts have been identified in soils collected from 1 to 3 and 8 to 10 feet bgs. In accordance with Appendix D to CAP Amendment #2 and as originally illustrated by Amec, additional step-out borings were not advanced. Instead the excavation at this location will extend 15 feet laterally from the boring with an initial exceedance, bound to the east by the right-of-way boundary and telecommunications utilities to the west (maintaining a five-foot buffer). Based on review of the provided final plans for the NE Trail, minor fill placement is anticipated in the vicinity; therefore, the required vertical excavation depth is 1 foot. Based on the established remediation limits, Remediation Area 3 equates to approximately 478 square feet. The soils requiring disposal equate to approximately 18 cubic yards of soil, or approximately 27 tons of soil, which with a 20% contingency is approximately 32 tons. The limits of Remediation Area 3 are illustrated on Figure 6C. The actual limits and volumes will be based on field conditions.

Remediation Area 4

For Remediation Area 4 (GP-252+57), arsenic impacts have been identified in soils collected from 1 to 3 and 6 to 8 feet bgs. In accordance with Appendix D to CAP Amendment #2 and as originally illustrated by Amec, additional step-out borings were not advanced. Instead the excavation at this location will extend 15 feet laterally from the boring with an initial exceedance, bound by telecommunications utilities to the west (maintaining a five-foot buffer). Based on review of the provided final plans for the NE Trail, minor fill placement is anticipated in the vicinity; therefore, the required vertical excavation depth is 1 foot. Based on the established remediation limits, Remediation Area 4 equates to approximately 510 square feet. The soils requiring disposal equate to approximately 19 cubic yards of soil, or approximately 28 tons of soil, which with a 20% contingency is approximately 34 tons. The limits of Remediation Area 4 are illustrated on Figure 6D. The actual limits and volumes will be based on field conditions.

5.2 Estimated Soil Remediation Volumes

Table 3 of this SGMP summarizes the estimated volumes of impacted soils requiring remediation to meet the conditions of the PPCAP, as amended, and applies to the four Remediation Areas detailed above. It does not include additional volumes that may require landfill disposal if soils require removal from the limits of the existing railroad corridor to facilitate construction, including soils generated from the planned installation of lighting fixtures and horizontal boring on the central portion of the Project Site. Based on the above, with a 20% contingency, there is an estimated 167 CY of impacted soils that need to be excavated and disposed of in an appropriately licensed landfill. The estimated cubic yardage is an estimated in-situ volume, which equates to approximately 301 tons. It should be noted that this estimation is contingent on the actual remediation limits of Remediation Area 2 and field conditions at Areas 1, 3, and 4, and should be expected to vary.

The remedial excavations are to be secured from the time of excavation until they are backfilled, as needed relative to job site safety. As needed, backfilling of the remediation excavations is to be accomplished using clean, off-site soil or other analytically tested, and geotechnical acceptable materials. Backfilling may also include soil from areas of the Project Site that have been demonstrated through the already performed characterization sampling to comply with the RRS. Backfilling will also need to be in accordance with geotechnical recommendations for compaction.

6.0 GROUNDWATER IMPACTS AND MANAGEMENT PROCEDURES

Impacted groundwater at the Project Site has been identified on the southern portion of the Project Site. From the groundwater sampling performed on the interim trail sections of the Project Site, tetrachloroethene (PCE) has been detected above its United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL)/Type 1 Groundwater Criteria (GC), at TW-7. The groundwater analytical testing data is summarized within Table 2. A Groundwater Quality Map is provided as Figure 5.

If groundwater is encountered by the GC or its sub-contractors during construction activities and needs to be managed to facilitate construction, the GC is to contact the Owner and Consultant prior to management of such groundwater. Depending on the location, additional testing may be required to determine the appropriate management methods. If impacted, such groundwater will likely either need to be pumped into a frac tank for analysis and subsequent appropriate offsite disposal, and/or pumped into the public sanitary sewer under an approved discharge permit. The GC is responsible for coordinating, permitting, and disposing of such groundwater.

Additionally, if the excavation of any soils at or below groundwater is required to facilitate construction, such soils should be stockpiled on, and covered by, plastic sheeting. At that time, additional screening and/or testing and characterization will need to be conducted by the Consultant to assist with management options. The Owner and Consultant should be contacted by the GC prior to the anticipated generation and/or excavation of soils below groundwater, to determine the appropriate management methods.

7.0 IMPACTED SOIL MANAGEMENT PROCEDURES

A site meeting shall be established by the GC prior to the on-set of this work to establish an understanding of the approach, field feasibility, and sequencing. Alterations to this plan are possible, as approved by the Owner (**Atlanta BeltLine, Inc.**) and the Environmental Consultant (Consultant, United Consulting). At that meeting should be the Owner, Civil Engineer, Consultant, GC, grading contractor, remediation contractor, and construction materials testing representative, at a minimum.

7.1 Surveying Control

Impacted soils requiring corrective actions have been identified as documented above, with the general limits of remediation, as established, illustrated on Figures 6A through 6D, as well as on Figure 4C. At the request of the GC, United Consulting will mobilize to the Project Site to mark these impacted areas (Remediation Areas 1 through 4), so that appropriate removal actions can be taken and subsequently documented. It should be noted that United Consulting has not yet been provided with GPS survey data for the soil borings conducted by Wood (formerly Amec/MACTEC), therefore the locations illustrated on the Figures herein should be considered approximate. Soils removed for landfill (or other) disposal is to be documented by the GC.

7.2 Horizontal Boring and Lighting Installations

As part of this SGMP, only the interim trail portions of the Project Site require remediation considerations at this time, as remedial activities have reportedly been conducted on the central portion of the Project Site, as illustrated on Figure 3.

During the horizontal boring work and lighting/security pedestrian poles installations, the GC must separate and stockpile the soils generated for assessment and/or testing by the Consultant. The soils generated should be stockpiled on plastic sheeting, bermed, and covered, as to not cross-contaminate the existing compliance surface conditions in this area. Based on the observations and associated testing, if conducted, the materials will be managed in accordance with this SGMP.

Type 5 composite sampling also remains to be addressed within this central trail section, per below. The GC is responsible for any corrective actions that may arise based on the composite sampling activities.

7.3 Soil Grading and Type 5 Composite Sampling

Based on the provided cut/fill analysis from Kimley-Horn, it is our understanding that an estimated 6.500 CY of import will be required to facilitate construction of the northern and southern sections of the Project Site.

Based on the soil sampling performed at the Project Site to date, excluding those soils at the four Remediation Areas, the remaining soil impacts have not been detected at concentrations which require remediation under the planned Type 3/4 and Type 5 RRS approach. However, some of this remaining soil is impacted, and the extent of such impacted soil has not been defined.

In accordance with the Type 5 RRS approach (for arsenic), following grading and construction of the trail and prior to the installation of the final landscaping, confirmatory arsenic composite sampling will be conducted by the Consultant in approximate half-acre units relative to the surficial one foot of final soil cover. This applies at each of the three sections (i.e. the northern interim trail, the central partially-completed trail, and the southern interim trail). At the central portion, the sampling will be conducted after the loosening of the top 1-foot soil by the GC, excluding the areas of reported demonstrated compliance conditions (i.e. the existing ponds). Generally, this will include obtaining samples in five-point grids across half-acre units. Detected concentrations will be compared to the approved Type 5 RRS for arsenic of 63 milligrams per kilogram (mg/Kg). If detectable concentrations of arsenic are greater than 63 mg/Kg, additional remediation and backfilling (with clean import soil) will be required by the GC.

Due to this, the Owner has elected for the following management procedures relative to the grading activities, once the four Remediation Areas are addressed:

- Existing fill material that requires undercutting for the construction process that is black to dark gray in color should be re-used within the existing railroad corridor as fill at least one foot below the final grades, or directly below the final concrete trail, provided that it is geotechnically suitable. Such soils, if reused, should be segregated and stockpiled separately so that the areas for reuse are documented by the GC. If this material cannot be reused in these areas, and they require export, they must be disposed of at an appropriately licensed landfill.
- Without prior consultation and approval by the Owner, no soils from either the northern or southern interim trail sections should be placed on the partially-completed trail portion of the Project Site (i.e. soils cut from the interim trail sections cannot be placed on the partially-completed trail section, or vice versa).
- With exception to the above, fill and/or residual soils which are not discolored and require undercutting for the construction process should be reused on the Project Site as fill. This material can be used up to the final grades. This is provided it is geotechnically suitable. If this material cannot be reused in these areas on the Project Site, they must be stockpiled and characterized to allow for the Owner to select the off-site management of the soils. In this instance, the Consultant would characterize the stockpile and coordinate with the Owner, then provide the GC with the Owner's management selection. Such management may include:
 - Placement on other property (i.e. construction site);
 - Disposal at a Construction and Demolition (C&D) landfill (if acceptable to such landfill);
 - Disposal in a Subtitle D landfill; and
 - Placement at a Subtitle D landfill for use as daily cover.

If soils are discovered during site work activities that show evidence of impacts such as staining or unusual odors, the Owner and Consultant are to be contacted so these additional areas can be

assessed and incorporated into this plan (see Section 8.0). The GC is responsible for notifying the Owner and Consultant of such conditions.

All excavation and disposal shall be conducted according to applicable City, County, State, and Federal regulations. Impacted soil shall be managed in accordance with the PPCAP and this SGMP. This is the responsibility of the GC.

7.4 Soils Disposal

7.4.1 Impacted Soils Requiring Corrective Action

As indicated above, based on the soil sampling performed at the Project Site to date, excluding the soil at Remediation Areas 1 through 4, soil impacts have not been detected at concentrations that will require remediation under the Brownfield Program for the planned Type 5 RRS approach.

However, for the Project Site, should soils with impact concentrations greater than their applicable non-residential RRS be discovered through unforeseen circumstances, they must be excavated (if above the groundwater table) and disposed of in an appropriately licensed landfill. Landfill testing requirements typically include Toxicity Characteristic Leaching Procedure (TCLP) analysis, but additional analysis requirements are the prerogative of the landfill.

Soils requiring remediation can be placed directly into trucks for off-site hauling to the appropriate landfill. Alternatively, they can be stockpiled and/or containerized (roll-off boxes) prior to hauling to the landfill. If the remediated soils are not directly loaded into roll-offs or trucks, soils are to be stockpiled on plastic sheeting, bermed, and covered, as to not cross-contaminate the existing compliance surface conditions in this area. The GC is responsible for the excavation, transportation, and landfill disposal activities. The GC is responsible for securing the actual Subtitle D landfill acceptance and preparing the necessary disposal profiles and manifests for the Owner to sign. Disposal manifests are required to be maintained by the GC. The Consultant is required to be onsite during the remediation activities for documentation purposes, and to collect additional confirmation samples, if needed, as required under the PPCAP.

Once the above Remediation Areas are remediation by the RC/GC, the remaining soils can be managed by the GC in accordance with Section 7.3. This is provided that the GC meets OSHA requirements and regulatory compliance requirements in Sections 9 and 10 to manage such conditions.

7.5 Import Fill

Imported soils must be documented as meeting residential RRS prior to import, for which the GC must obtain environmental documentation. This is to include either a Phase I or II Environmental Assessment for the borrow source with documentation of no environmental concerns associated with the export area. The GC must provide the available reports to the Consultant for review and approval prior to importing. Otherwise, soil sampling will be required for analytical testing. The Consultant should be notified of the borrow source(s) by the GC at least 7 days in advance of importing so that samples can be obtained. The GC is responsible for identifying the borrow source and having equipment at the

source for the Consultant to collect the samples. A testing frequency will be conducted at a rate of one sample for every approximate 1,000 yards of import fill soil.

7.6 Dust Control

The GC is to use best management practices to reduce surface activities and/or air movement that can cause dust to be generated from disturbance of soil surfaces. The GC will have to determine which practices accommodate site-specific conditions. Control measures and design criteria could include sprinkling/irrigation, mulch, and wind breaks. Controls conducted should be documented and adjusted as site conditions change.

If requested by the Owner, the Consultant could implement a dust-monitoring program during the removal of the Remediation Areas.

7.7 Erosion and Sedimentation Control

Erosion and sedimentation control measures must be implemented in accordance with the project civil design documents. This includes general site work, as well as work at each of the four Remedial Areas.

7.8 Well Abandonment

During general site work within the trail corridor, should existing groundwater monitoring wells be discovered, the Consultant is to be contacted so that observations can be made prior to their disturbance. The Consultant will then assist the GC with the appropriate abandonment activities.

8.0 UNFORESEEN CONDITIONS

If soils are discovered during site work activities that show evidence of impacts such as staining, unusual odors, buried tanks, debris, or drums are discovered, site work in this particular area should be halted temporarily and the Consultant is to be contacted immediately so such conditions can be assessed and incorporated into this plan. The GC is responsible for notifying the Owner and Consultant of such conditions. Based on the observations and associated testing, if conducted, the materials will be managed in accordance with this SGMP.

9.0 HEALTH AND SAFETY

Work shall be performed in accordance with Occupational Safety and Health Administration (OSHA) requirements, as provided for in Title 29 of the Code of Federal Regulations, Part 1910.120 (29 Code of Federal Regulations (CFR) 1910.120), for hazardous waste work, as applicable. Workers associated with the excavation and handling of hazardous wastes (if present) must meet the training requirements of these regulations. All companies involved in these activities are to prepare Health and Safety Plans (HASPs) for their workers and the tasks they are performing, as required by the regulations, and cleaning protocols for their personnel and equipment. Each firm shall perform their work in accordance with this SGMP, the EPD approved PPCAP, and their HASP. In addition, remediation equipment (if present) is to be cleaned prior to it leaving the Project Site, in accordance with GC prepared decontamination protocols. The HASPs and decontamination protocols shall be maintained in the project file. The GC is responsible for meeting the OSHA requirements, and documentation.

10.0 REGULATORY COMPLIANCE

Permits may be required for various activities. The GC is to obtain necessary construction, access, disturbance, treatment, disposal, and hauling, etc. related permits for these activities. The GC is to work with contacts at the EPD and local authorities to obtain permits for the storage, treatment, transport, and disposal of the wastes, as needed. The Consultant may assist the GC, if requested and approved by the Owner.

Soil removal is to be performed in accordance with the approved PPCAP and this SGMP. Excavation activities are to be performed by GC experienced, trained, and licensed for waste activities, as applicable. The materials removed from the Project Site are to be transported by experienced, trained, and licensed waste haulers. Soils requiring remediation are to have manifests prepared to document the removal and disposal of the materials. All excavation, handling, containerization, transport, storage, and disposal activities are to be performed by methods that:

- Prevent contamination of the surrounding environment (soil, water, air);
- Are in accordance with applicable federal, state, and local regulation and laws; and
- Protect personnel in the work area and adjacent to the work area.

The work is to be performed in compliance with applicable OSHA regulations, as discussed above. The GC and its subcontractors are required to meet all of the above.

11.0 DOCUMENTATION

The soil management at the Project Site is to be documented for the Owner. The Consultant is required to be onsite during remediation activities, including the observation and documentation of the corrective actions and/or impacts identified as described in Section 8.0. The GC is required to provide the Consultant with the landfill disposal manifests.

The GC is responsible for documenting the remaining aspects of this SGMP. This includes, but is not necessarily limited to, documentation of:

- Areas of impacted soil placement on-site;
- Disposal locations of soil exported from the Project Site (based on Owner selection)
- Groundwater disposal/discharge;
- Disposal manifests; and
- Import soils.

The documentation shall be provided following completion of the grading operations, within 30 working days of conclusion of the GC's field activities, or sooner if requested by the Owner. Disposal facility approved waste profiles must be provided to the Owner and Consultant prior to disposal activities being conducted. Disposal manifests shall be included in this documentation package.

It is the GC's responsibility to notify the Owner and their Consultant if conditions are encountered during site work which differs from those discussed herein.

12.0 LIMITATIONS

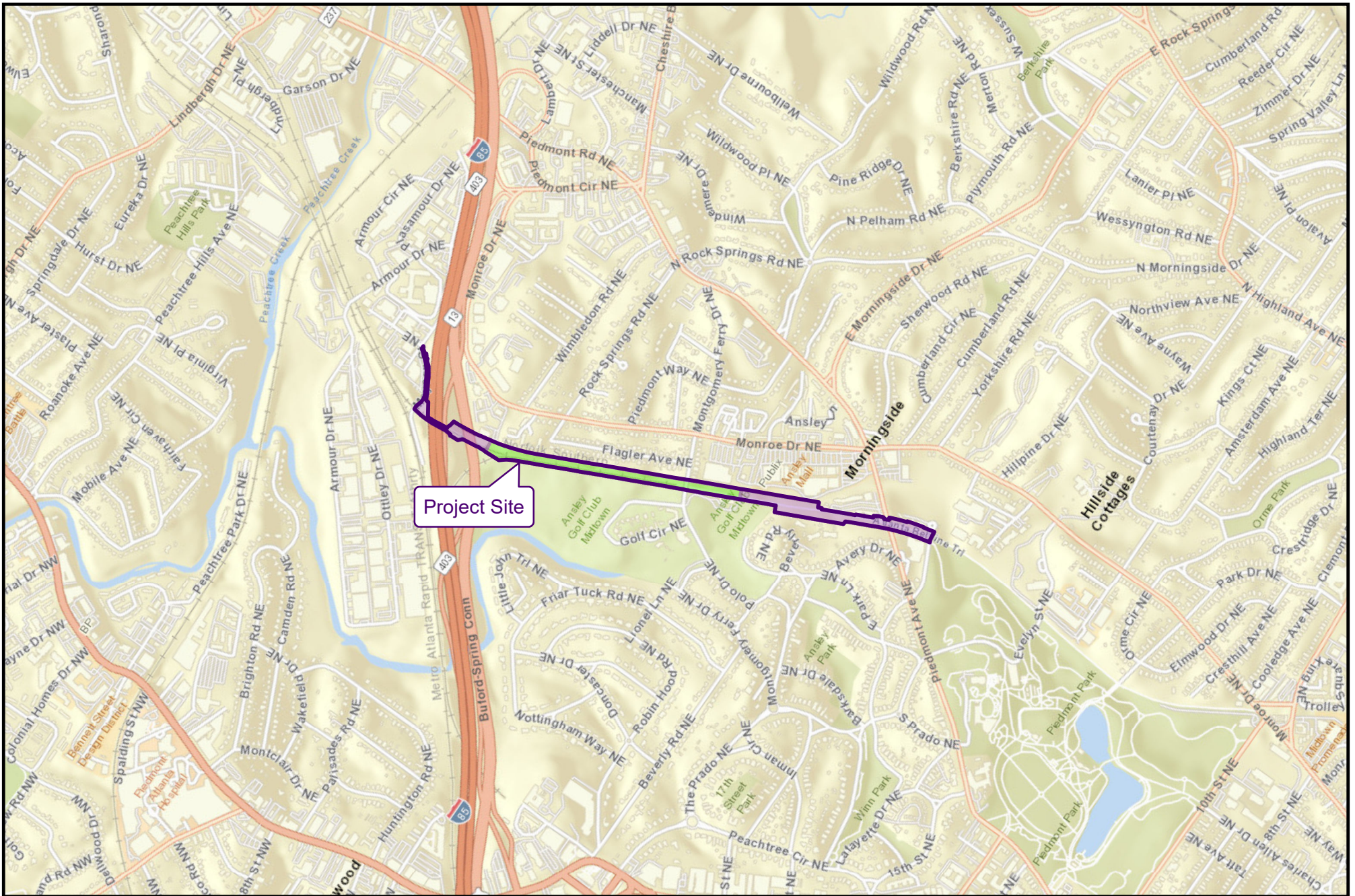
United Consulting's conclusions, opinions and suggestions have been prepared using generally accepted standards prevailing within the relevant disciplines as practiced within the southeastern United States. The data analysis and recommendations stated herein are professional opinions; no warranty is expressed or implied. United Consulting is not responsible for the conclusions, opinions, or recommendations of others. Nothing contained within this report is intended to supersede or replace the judgment of the Client. All decisions relating to the aforementioned project or site are the sole responsibility of said users.

This report has been prepared for the Atlanta BeltLine, Inc. and Kimley-Horn. Should any other person, partnership, or corporation desire to rely upon this report, it will be necessary for United Consulting to update it for the new user. The right to rely upon this report and the data herein may not be assigned without the express written permission of United Consulting. As a prerequisite for the granting of, such permission, the third-party users, (including, but not limited to, the Client's successors and assigns) must agree to be bound by the terms and conditions of the original agreement between United Consulting and the Client. Further, reliance is dependent on similar uses of the property and the document.

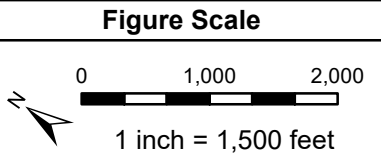
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FIGURES





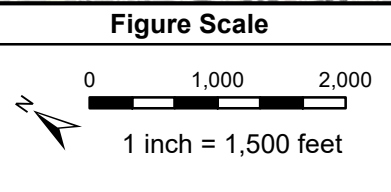
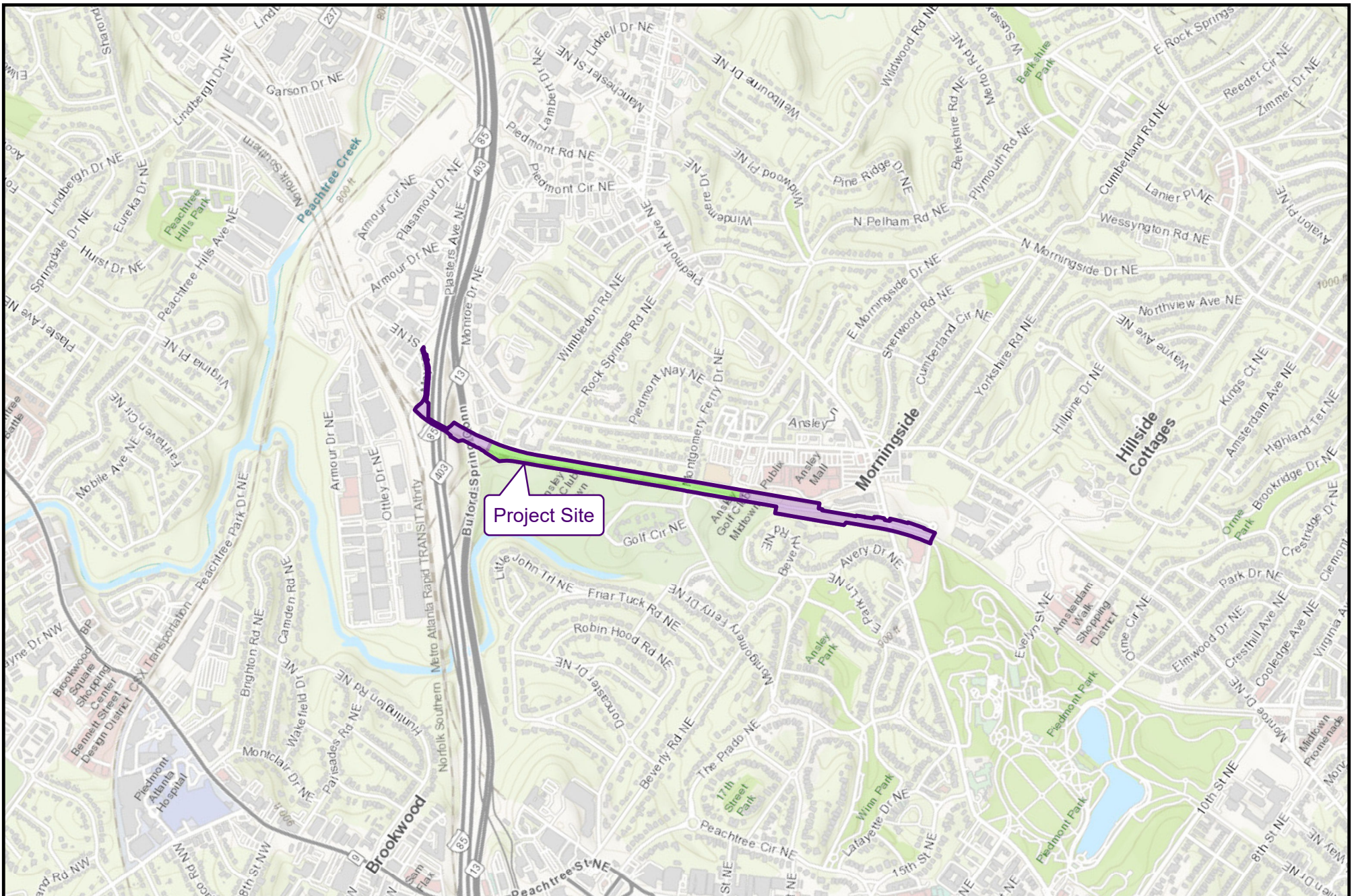
Project Site



Prepared:	BWS
Checked:	RCG
Date:	12/30/21

Title:	Site Location Map (Street Map)
Project:	Atlanta BeltLine — Northeast Trail
Project No.:	21-GA-05802-01
Client:	Kimley-Horn & Associates, Inc.

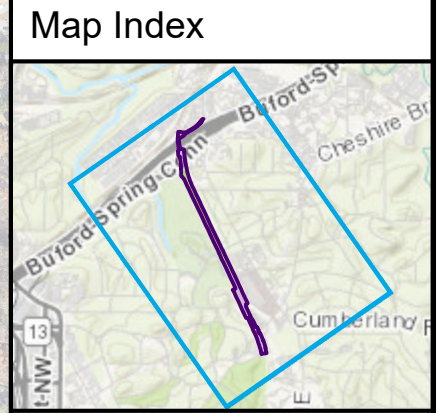
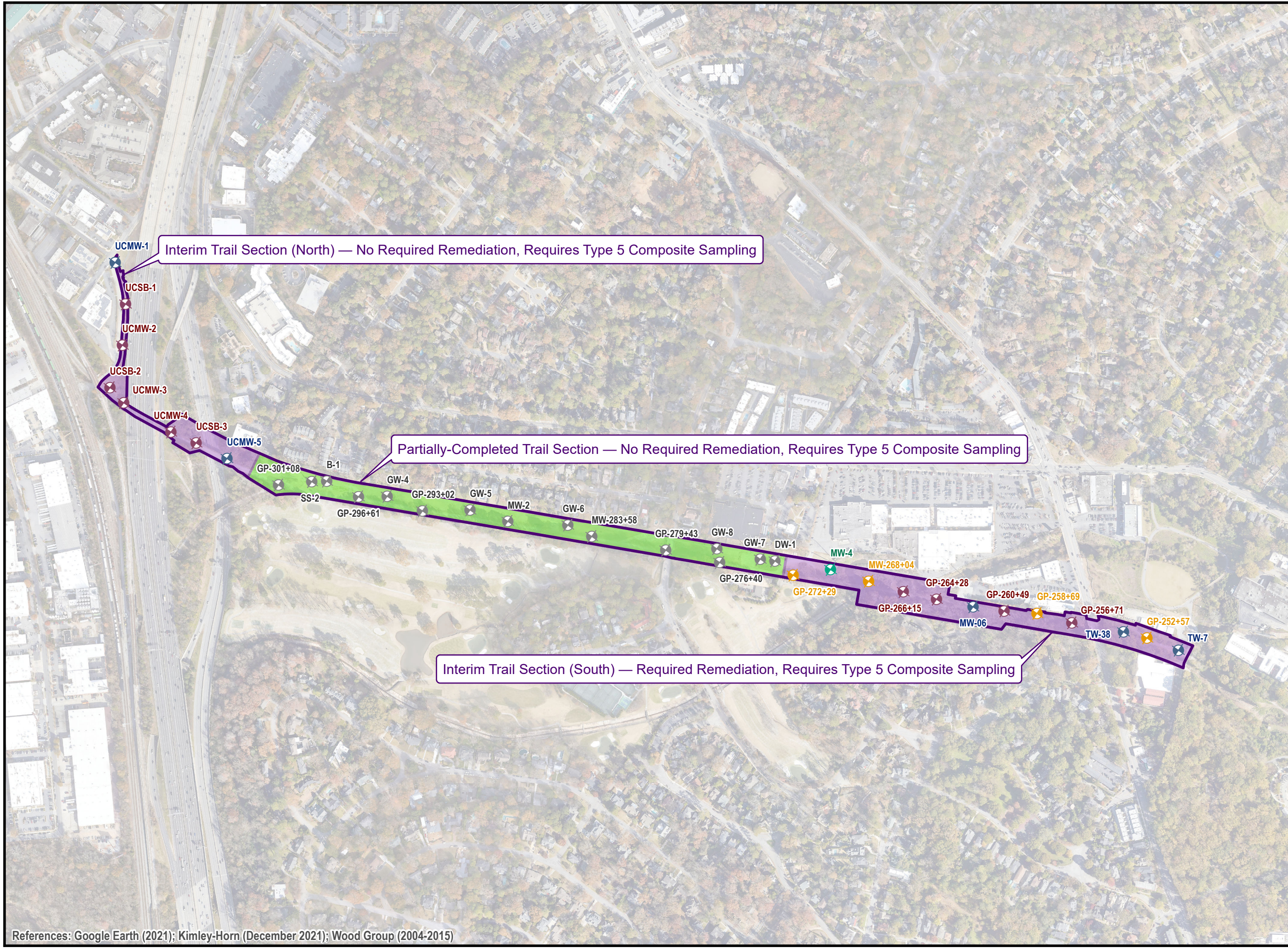
FIG. 1



Prepared:	BWS
Checked:	RCG
Date:	12/30/21

Title:	USGS Topographic Map
Project:	Atlanta BeltLine — Northeast Trail
Project No.:	21-GA-05802-01
Client:	Kimley-Horn & Associates, Inc.

FIG. 2



Legend

- Project Corridor (R/W)
- Partially-Completed Trail Section
- Interim Trail Section
- Sample Location
- Soil Detection Above Type 3 RRS
- Soil Sample Location
- Soil / Groundwater Sample Location
- Groundwater Sample Location

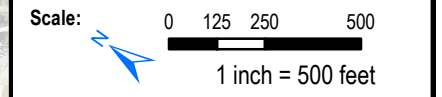
Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
 625 Holcomb Bridge Road, Norcross, Georgia 30071
 770-209-0029 Fax 582-2900 www.unitedconsulting.com

Project:
Atlanta BeltLine — Northeast Trail

Client:
Kimley-Horn & Associates, Inc.

Sheet Title: Sample Location Plan (Overview)



Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Jan 03, 2022
Project No.	21-GA-05802-01

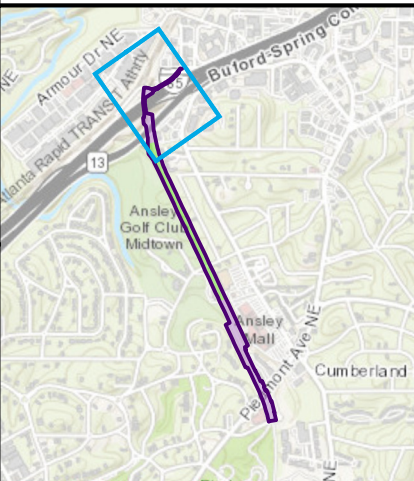
Figure 3

References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)

Note:
 VOC and SVOC results are listed in micrograms per kilogram (µg/Kg). RCRA Metals are listed in milligrams per kilogram (mg/Kg). BRL is Below Laboratory Reporting Limits.

SAMPLE ID
 Target Compound List
 Individual Constituent

Map Index



Legend

- Project Corridor (R/W)
- Partially-Completed Trail Section
- Interim Trail Section
- Sample Location
- Soil Sample Location
- Soil / Groundwater Sample Location

Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.



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Project:
 Atlanta BeltLine — Northeast Trail

Client:
 Kimley-Horn & Associates, Inc.

Sheet Title: Soil Quality Map
 (Interim Trail - North Section)

Scale: 0 37.5 75 150
 1 inch = 130 feet

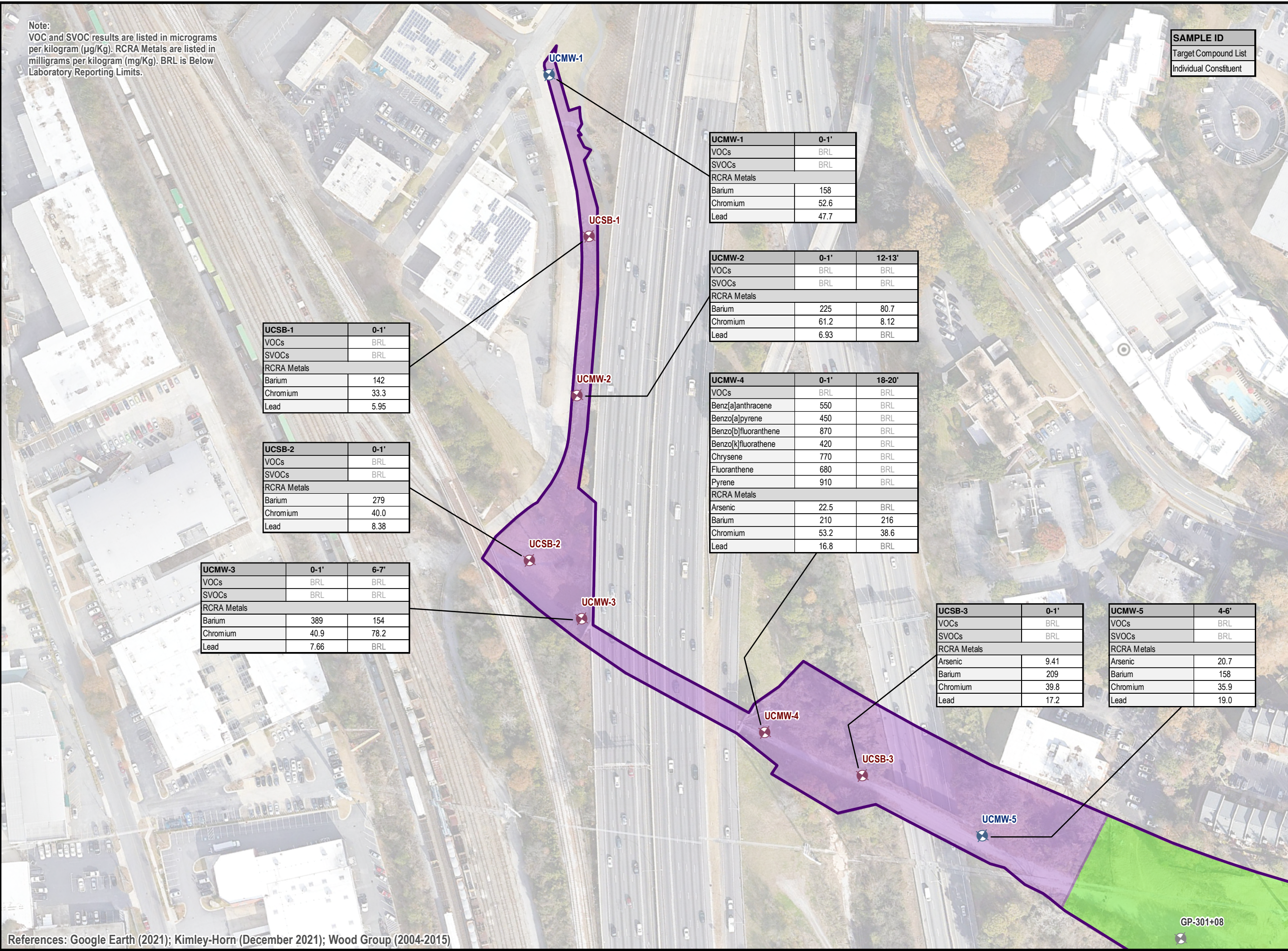
Prepared: B. Sharp / S. Cox

Checked: R. Griebel

Date: Jan 03, 2022

Project No.: 21-GA-05802-01

Figure 4A



UCSB-1	0-1'
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium	142
Chromium	33.3
Lead	5.95

UCSB-2	0-1'
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium	279
Chromium	40.0
Lead	8.38

UCMW-3	0-1'	6-7'
VOCs	BRL	BRL
SVOCs	BRL	BRL
RCRA Metals		
Barium	389	154
Chromium	40.9	78.2
Lead	7.66	BRL

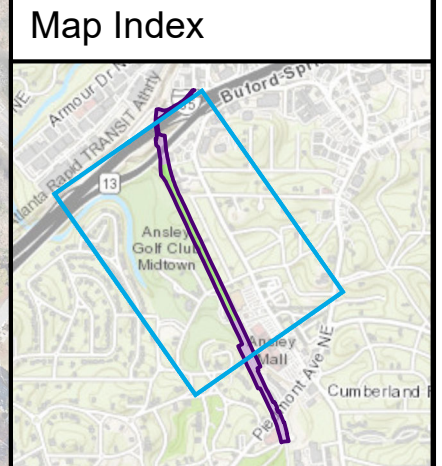
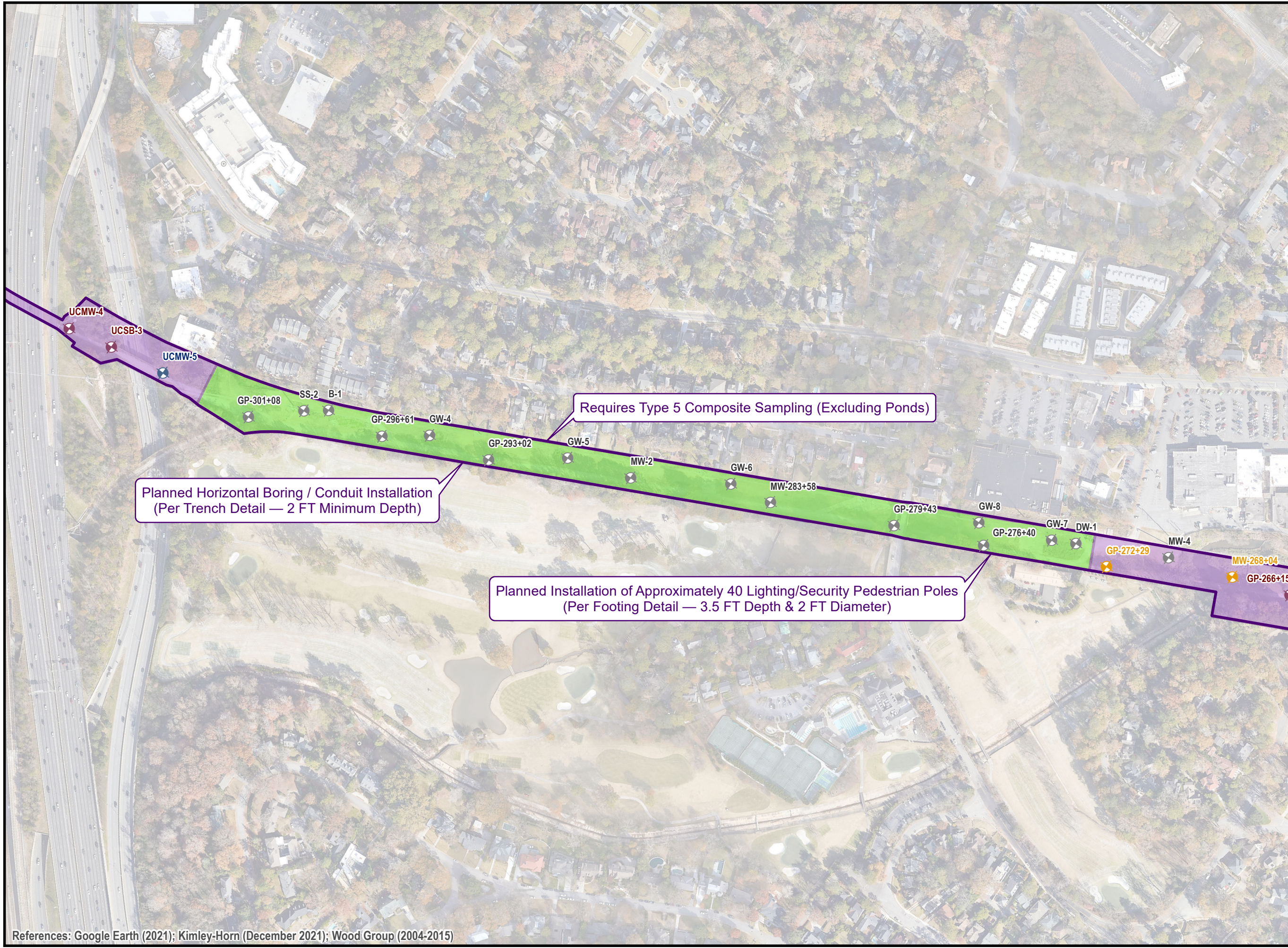
UCMW-1	0-1'
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium	158
Chromium	52.6
Lead	47.7

UCMW-2	0-1'	12-13'
VOCs	BRL	BRL
SVOCs	BRL	BRL
RCRA Metals		
Barium	225	80.7
Chromium	61.2	8.12
Lead	6.93	BRL

UCMW-4	0-1'	18-20'
VOCs	BRL	BRL
Benzo[a]anthracene	550	BRL
Benzo[a]pyrene	450	BRL
Benzo[b]fluoranthene	870	BRL
Benzo[k]fluorathene	420	BRL
Chrysene	770	BRL
Fluoranthene	680	BRL
Pyrene	910	BRL
RCRA Metals		
Arsenic	22.5	BRL
Barium	210	216
Chromium	53.2	38.6
Lead	16.8	BRL

UCSB-3	0-1'
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Arsenic	9.41
Barium	209
Chromium	39.8
Lead	17.2

UCMW-5	4-6'
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Arsenic	20.7
Barium	158
Chromium	35.9
Lead	19.0



Legend

- Project Corridor (R/W)
- Partially-Completed Trail Section
- Interim Trail Section
- Sample Location
- Soil Detection Above Type 3 RRS
- Soil Sample Location
- Soil / Groundwater Sample Location

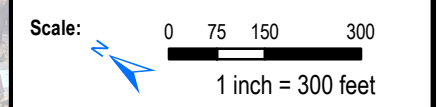
Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
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Project:
Atlanta BeltLine — Northeast Trail

Client:
Kimley-Horn & Associates, Inc.

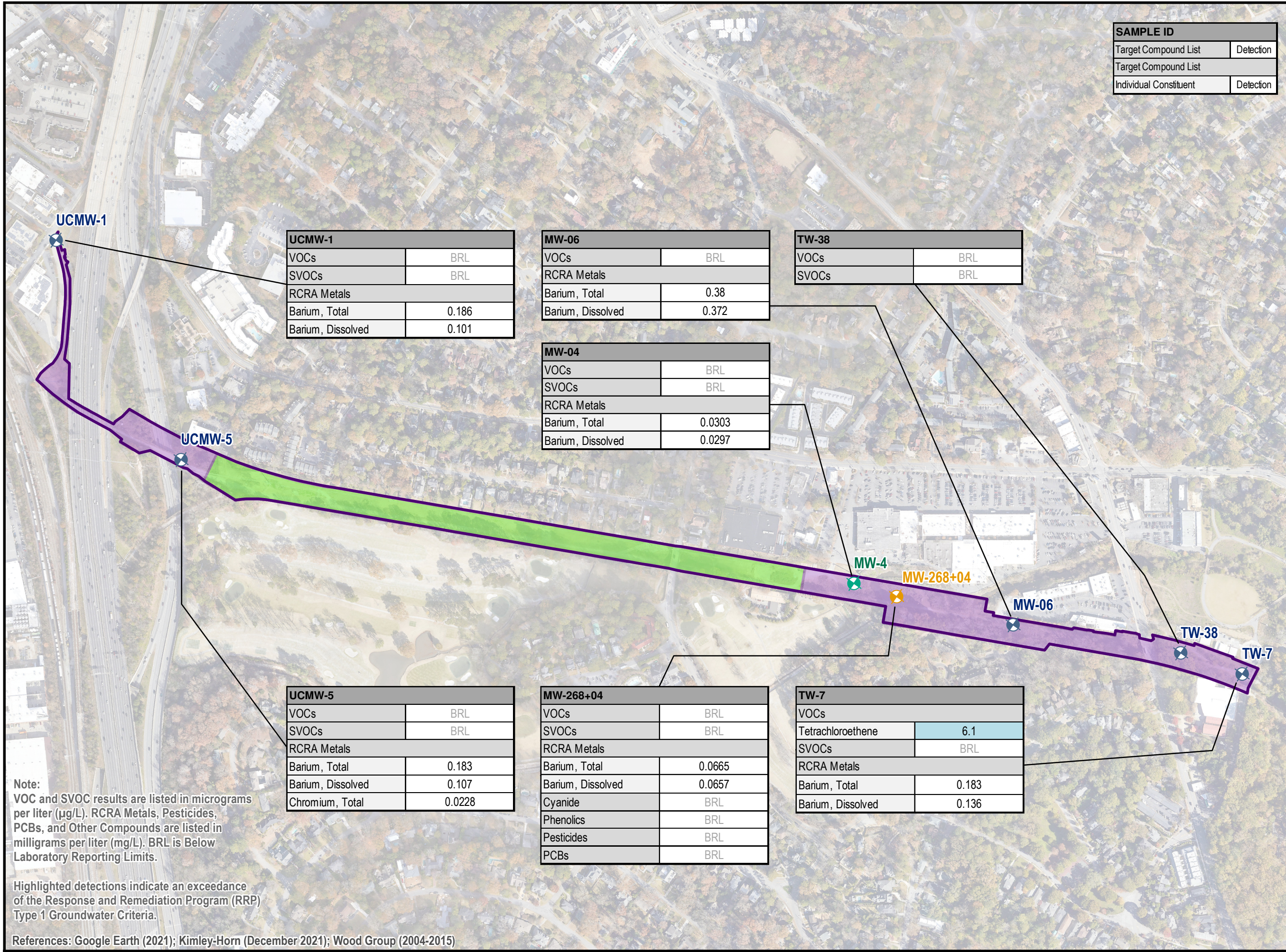
Sheet Title: Section Overview (Partially-Completed Trail)



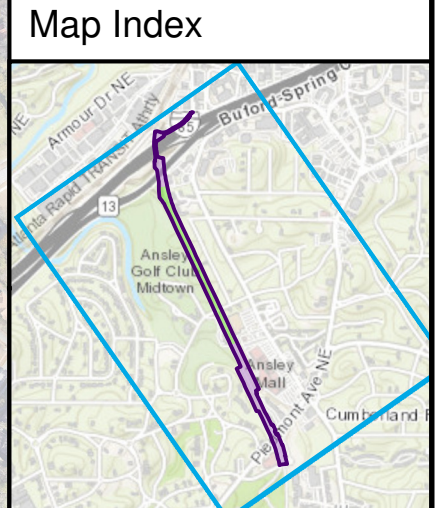
Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Jan 03, 2022
Project No.	21-GA-05802-01

Figure 4B

References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)



SAMPLE ID	
Target Compound List	Detection
Target Compound List	Detection
Individual Constituent	Detection



Legend

- Project Corridor (R/W)
- Partially-Completed Trail Section
- Interim Trail Section
- Soil Detection Above Type 3 RRS
- Groundwater Sample Location
- Soil / Groundwater Sample Location

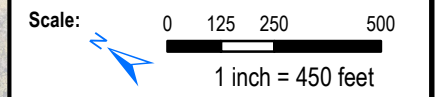
Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
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Project:
Atlanta BeltLine — Northeast Trail

Client:
Kimley-Horn & Associates, Inc.

Sheet Title: Groundwater Quality Map (Aerial Photograph)



Prepared: B. Sharp / S. Cox
Checked: R. Griebel
Date: Jan 03, 2022
Project No.: 21-GA-05802-01

Figure 5

UCMW-1	
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium, Total	0.186
Barium, Dissolved	0.101

MW-06	
VOCs	BRL
RCRA Metals	
Barium, Total	0.38
Barium, Dissolved	0.372

TW-38	
VOCs	BRL
SVOCs	BRL

MW-04	
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium, Total	0.0303
Barium, Dissolved	0.0297

UCMW-5	
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium, Total	0.183
Barium, Dissolved	0.107
Chromium, Total	0.0228

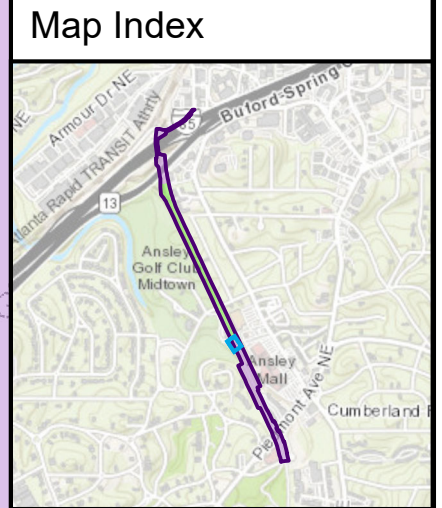
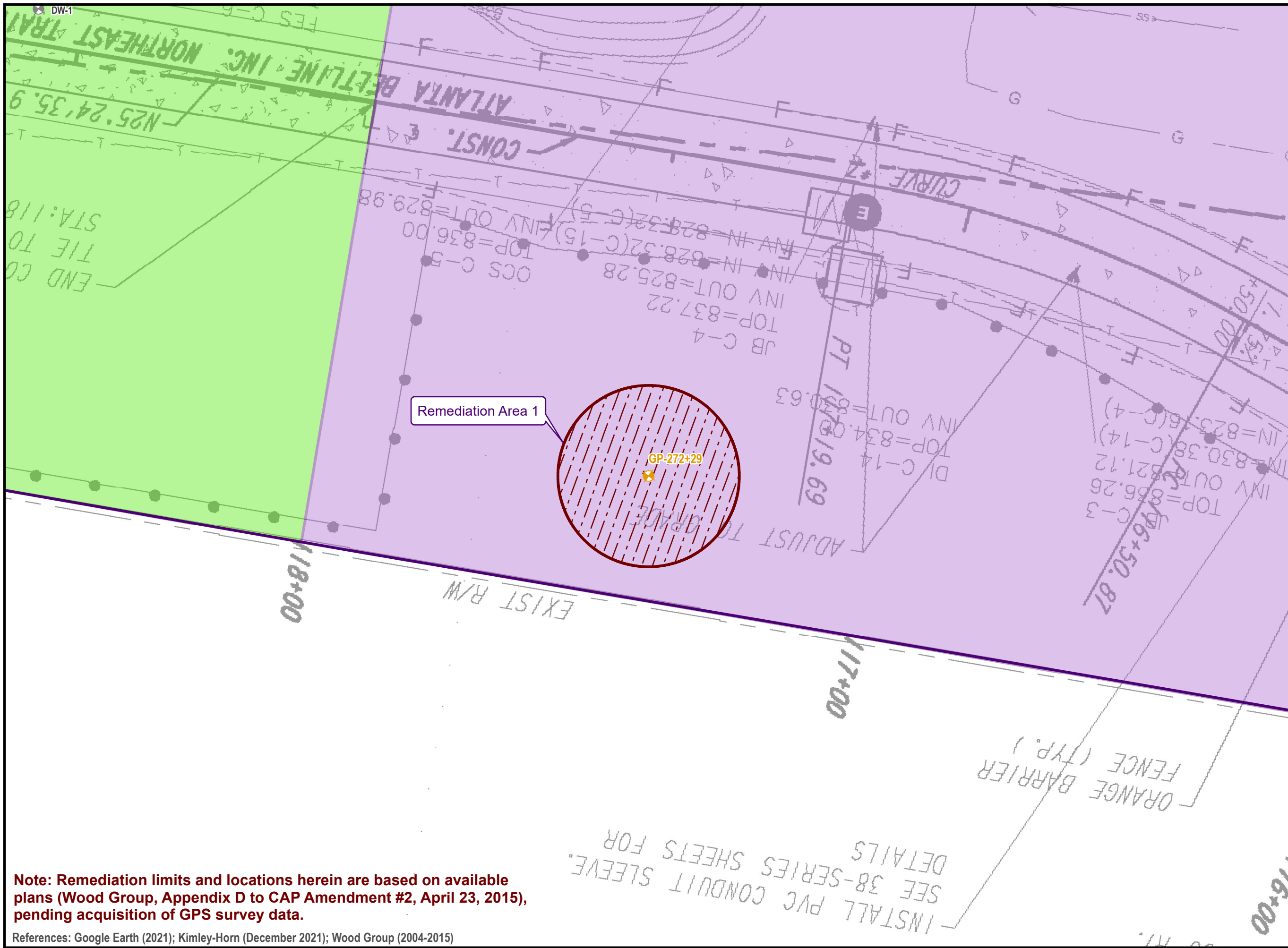
MW-268+04	
VOCs	BRL
SVOCs	BRL
RCRA Metals	
Barium, Total	0.0665
Barium, Dissolved	0.0657
Cyanide	BRL
Phenolics	BRL
Pesticides	BRL
PCBs	BRL

TW-7	
VOCs	
Tetrachloroethene	6.1
SVOCs	BRL
RCRA Metals	
Barium, Total	0.183
Barium, Dissolved	0.136

Note: VOC and SVOC results are listed in micrograms per liter (µg/L). RCRA Metals, Pesticides, PCBs, and Other Compounds are listed in milligrams per liter (mg/L). BRL is Below Laboratory Reporting Limits.

Highlighted detections indicate an exceedance of the Response and Remediation Program (RRP) Type 1 Groundwater Criteria.

References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)



Legend

- Project Corridor (R/W)
- Limits of Proposed Remediation
- Partially-Completed Trail Section
- Interim Trail Section
- Sample Location
- Soil Detection Above Type 3 RRS

Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

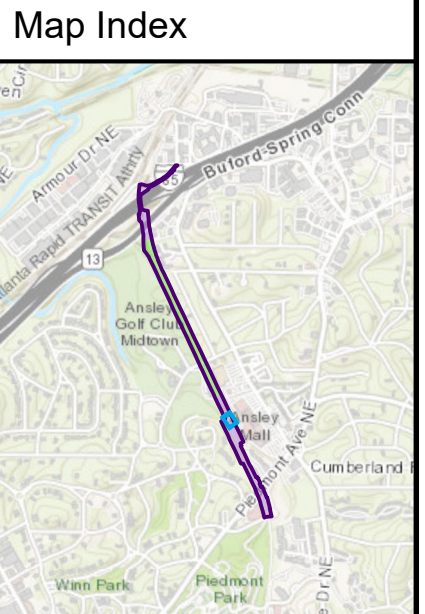
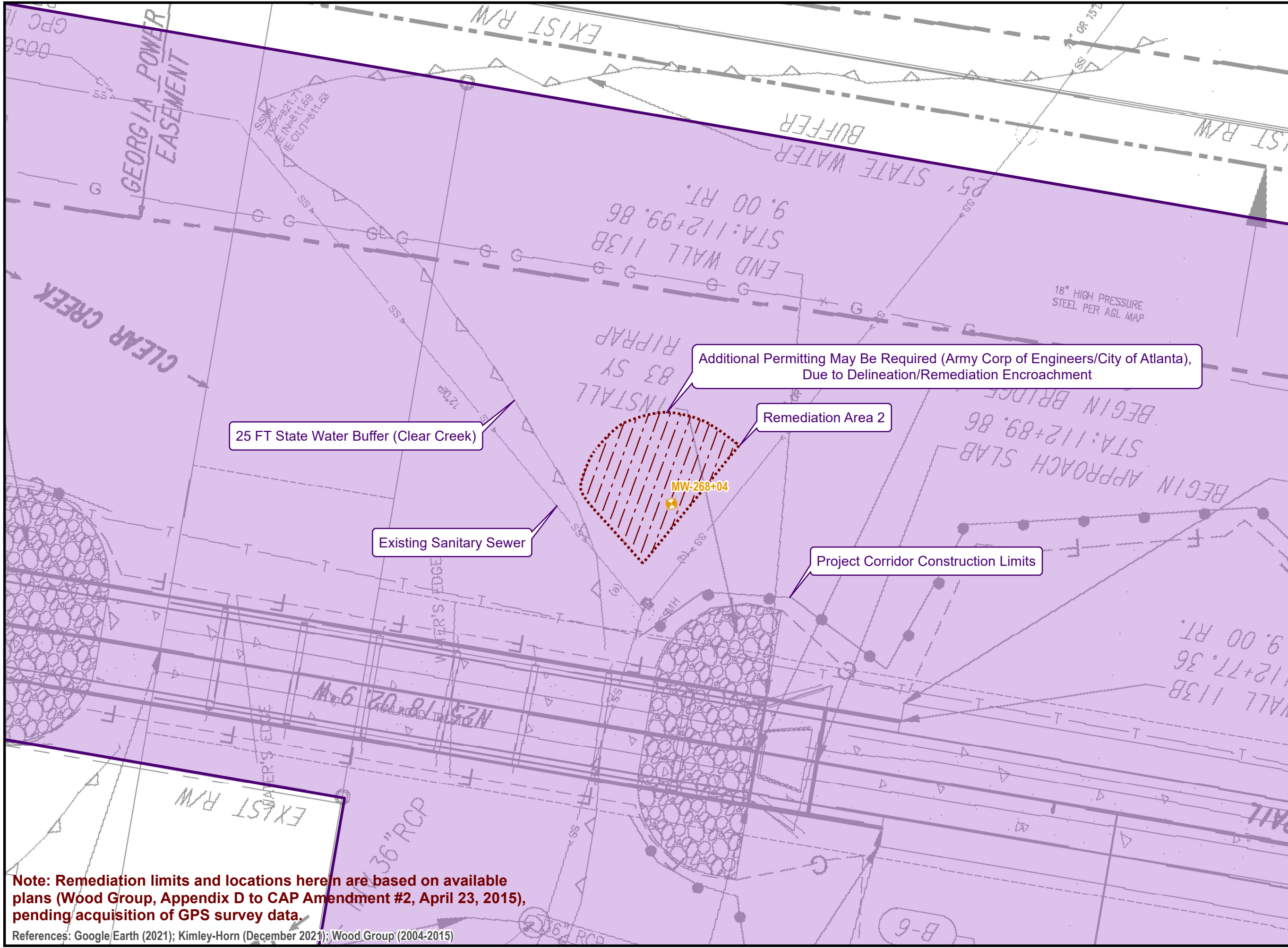
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Project:	Atlanta BeltLine — Northeast Trail
Client:	Kimley-Horn & Associates, Inc.
Sheet Title:	Remediation Area 1 (GP-272+29)
Scale:	 1 inch = 15 feet
Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Jan 03, 2022
Project No.	21-GA-05802-01

Figure 6A

Note: Remediation limits and locations herein are based on available plans (Wood Group, Appendix D to CAP Amendment #2, April 23, 2015), pending acquisition of GPS survey data.

References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)



Legend

- Project Corridor (R/W)
- Estimated Remediation Limits
- Interim Trail Section
- Soil Detection Above Type 3 RRS

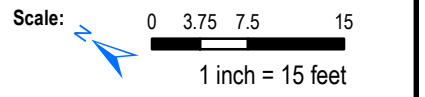
Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
 625 Holcomb Bridge Road, Norcross, Georgia 30071
 770-209-0029 Fax 582-2900 www.unitedconsulting.com

Project:
 Atlanta BeltLine — Northeast Trail

Client:
 Kimley-Horn & Associates, Inc.

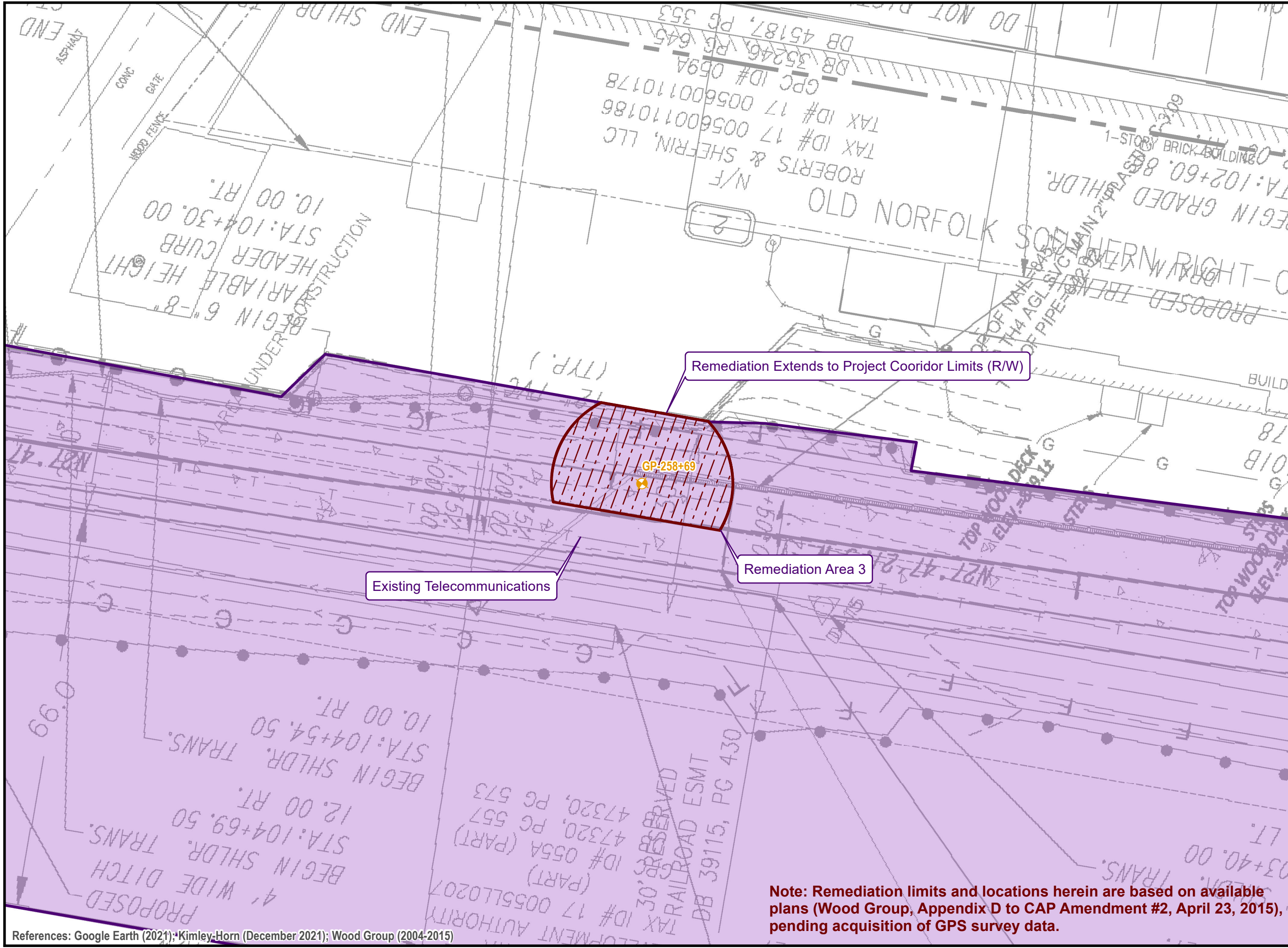
Sheet Title: Remediation Area 2 (MW-268+04)



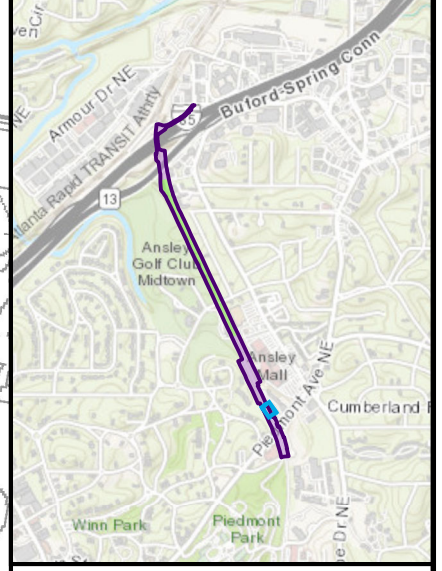
Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Dec 30, 2021
Project No.	21-GA-05802-01

Figure 6B

Note: Remediation limits and locations herein are based on available plans (Wood Group, Appendix D to CAP Amendment #2, April 23, 2015), pending acquisition of GPS survey data.
 References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)



Map Index



Legend

- Project Corridor (R/W)
 - Limits of Proposed Remediation
 - Interim Trail Section
 - Soil Detection Above Type 3 RRS
- Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
 625 Holcomb Bridge Road, Norcross, Georgia 30071
 770-209-0029 Fax 582-2900 www.unitedconsulting.com

Project:
Atlanta BeltLine — Northeast Trail

Client:
Kimley-Horn & Associates, Inc.

Sheet Title: Remediation Area 3 (GP-258+69)

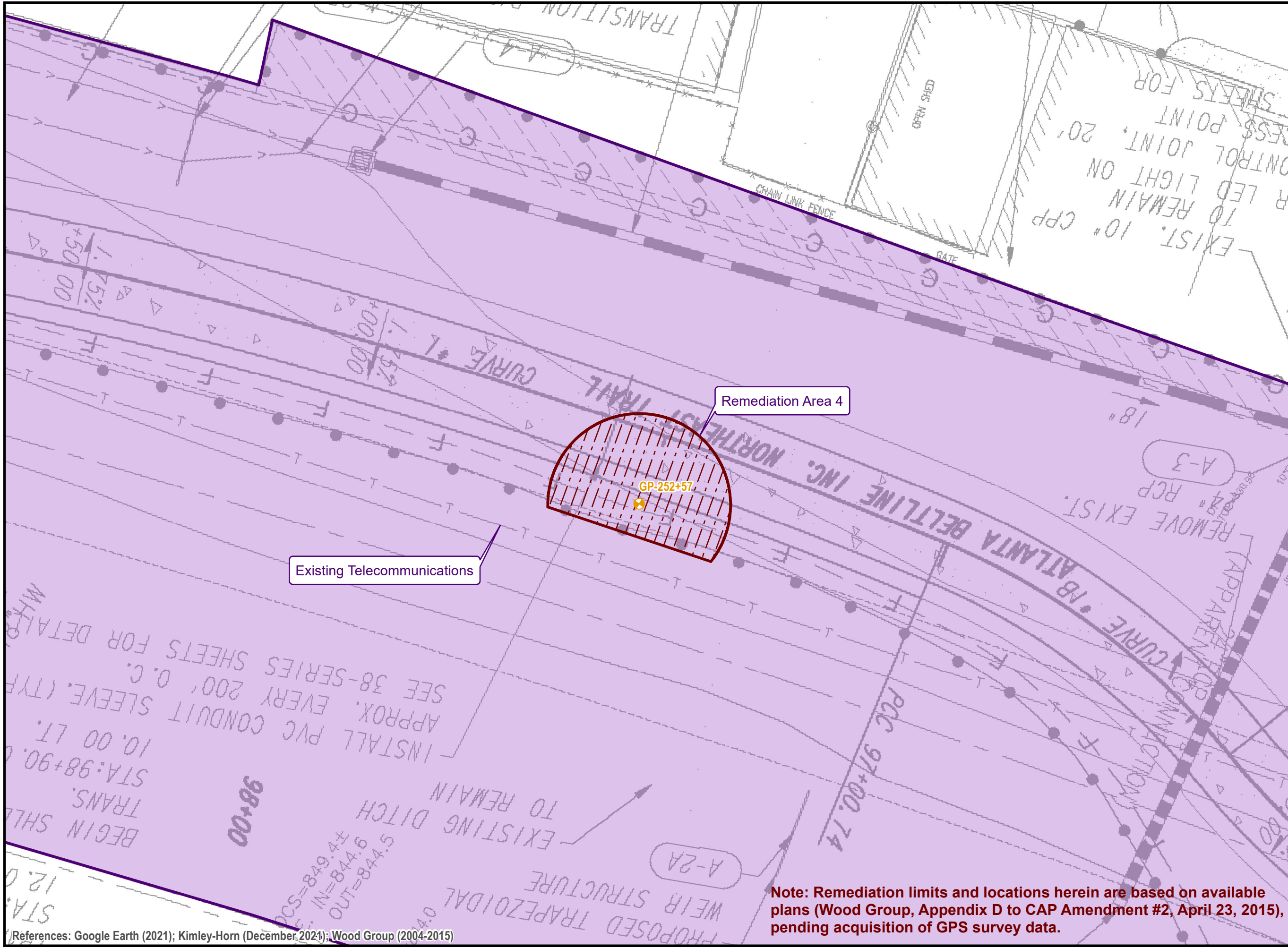
Scale: 0 3.75 7.5 15
1 inch = 15 feet

Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Dec 30, 2021
Project No.	21-GA-05802-01

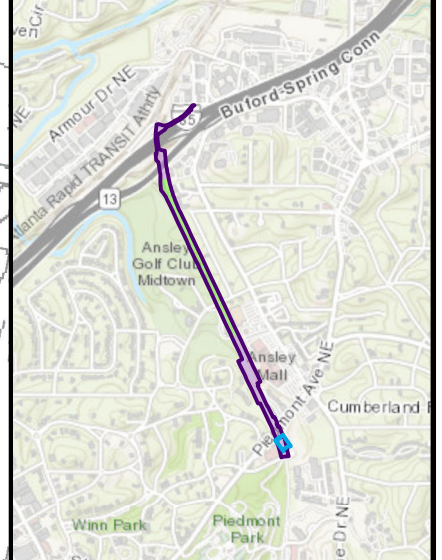
Figure 6C

Note: Remediation limits and locations herein are based on available plans (Wood Group, Appendix D to CAP Amendment #2, April 23, 2015), pending acquisition of GPS survey data.

References: Google Earth (2021); Kimley-Horn (December 2021); Wood Group (2004-2015)



Map Index



Legend

- Project Corridor (R/W)
- Limits of Proposed Remediation
- Interim Trail Section
- Soil Detection Above Type 3 RRS

Project Site boundary based on review of client-provided site plans, prepared by Kimley-Horn (revised 12/17/2021). Original version of this drawing is provided in full-color, black-and-white reproductions may not accurately depict certain information.

UNITED CONSULTING
 625 Holcomb Bridge Road, Norcross, Georgia 30071
 770-209-0029 Fax 582-2900 www.unitedconsulting.com

Project:
Atlanta BeltLine — Northeast Trail

Client:
Kimley-Horn & Associates, Inc.

Sheet Title: Remediation Area 4 (GP-252+57)

Scale: 0 3.75 7.5 15
1 inch = 15 feet

Prepared:	B. Sharp / S. Cox
Checked:	R. Griebel
Date:	Dec 30, 2021
Project No.	21-GA-05802-01

Note: Remediation limits and locations herein are based on available plans (Wood Group, Appendix D to CAP Amendment #2, April 23, 2015), pending acquisition of GPS survey data.

Figure 6D

References: Google Earth (2021); Kimley-Horn (December, 2021); Wood Group (2004-2015)

TABLES



Table 1 - Summary of Soil Analytical Testing Results (Detections Only)

Constituents	Sample Designation		Interim Trail (North Section)										
	Sample Collection Date:		UCSB-1	UCSB-2	UCSB-3	UCMW-1	UCMW-2		UCMW-3		UCMW-4		UCMW-5
	Consultant:		United	United	United	United	United		United		United		United
	Sample Depth (feet):		0-1	0-1	0-1	0-1	0-1	12-13	0-1	6-7	0-1	18-20	4-6
	Type 3 RRS (Surface)*	Type 5 RRS*											
Volatile Organic Compounds (VOCs) (µg/Kg)													
Tetrachloroethene	500	—	< 4.9	< 6.2	< 7.3	< 5.2	< 5.0	< 4.6	< 5.5	< 4.3	< 6.1	< 4.0	< 9.9
Toluene	100,000	—	< 4.9	< 6.2	< 7.3	< 5.2	< 5.0	< 4.6	< 5.5	< 4.3	< 6.1	< 4.0	< 9.9
Xylenes	1,000,000	—	< 4.9	< 6.2	< 7.3	< 5.2	< 5.0	< 4.6	< 5.5	< 4.3	< 6.1	< 4.0	< 9.9
Semi-Volatile Organic Compounds (SVOCs) (µg/Kg)													
2-Methylnaphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—
Anthracene	1,009,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	< 390	< 350	< 400
Benz[a]anthracene	5,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	550	< 350	< 400
Benzo[a]pyrene	1,640	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	450	< 350	< 400
Benzo[b]fluoranthene	5,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	870	< 350	< 400
Benzo[g,h,i]perylene	500,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	< 390	< 350	< 400
Benzo[k]fluoranthene	46,060	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	420	< 350	< 400
Chrysene	141,590	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	770	< 350	< 400
Fluoranthene	500,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	680	< 350	< 400
Indeno[1,2,3-cd]pyrene	15,300	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	< 390	< 350	< 400
Phenanthrene	110,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	< 390	< 350	< 400
Pyrene	500,000	—	< 380	< 390	< 380	< 400	< 370	< 380	< 500	< 350	910	< 350	< 400
RCRA 8 Metals (mg/Kg)													
Arsenic	38.12	63	< 4.06	< 4.44	9.41	< 4.05	< 3.92	< 4.54	< 6.29	< 3.54	22.5	< 3.57	20.7
Barium	1,000	—	142	279	209	158	225	80.7	389	154	210	216	158
Cadmium	39	—	< 1.71	< 1.86	< 1.58	< 1.70	< 1.65	< 1.91	< 1.99	< 1.42	< 1.62	< 1.43	< 1.81
Chromium, Total	1,200	—	33.3	40.0	39.8	52.6	61.2	8.12	40.9	78.2	53.2	38.6	35.9
Lead	400	—	5.95	8.38	17.2	47.7	6.93	< 4.54	7.66	< 3.54	16.8	< 3.57	19.0
Mercury	17	—	< 0.115	< 0.119	< 0.116	< 0.120	< 0.112	< 0.114	< 0.151	< 0.107	< 0.118	< 0.107	< 0.122
Other Compounds (mg/Kg)													
Cyanide	20,640	—	—	—	—	—	—	—	—	—	—	—	—
Phenolics	—	—	—	—	—	—	—	—	—	—	—	—	—
Pesticides (mg/Kg)													
4,4-DDE	2,800	—	—	—	—	—	—	—	—	—	—	—	—
4,4-DDT	2,840	—	—	—	—	—	—	—	—	—	—	—	—
Alpha-Chlordane	9,200	—	—	—	—	—	—	—	—	—	—	—	—
Chlordane-Technical	9,200	—	—	—	—	—	—	—	—	—	—	—	—
Endrin Aldehyde	10,000	—	—	—	—	—	—	—	—	—	—	—	—
Gamma-Chlordane	9,200	—	—	—	—	—	—	—	—	—	—	—	—
Polychlorinated Biphenyls (PCBs) (mg/Kg)													
Aroclor-1260	1,550	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

- Detection - Exceeds Type 3 Non-Residential Risk Reduction Standard (RRS)
- BRL - Below Laboratory Reporting Limit for Constituent(s)
- < ###.### - Laboratory Reporting Limit for Constituent
- µg/Kg - Micrograms per kilogram
- mg/Kg - Milligrams per kilogram
- - Not Established / Not Analyzed / Not Applicable
- * - Type 3 and Type 5 RRS obtained from CAP Amendment #2 Approval Letter (April 14, 2011)

THIS TABLE SUMMARIZES DETECTED CONSTITUENTS IN THE SAMPLES ANALYZED. REMAINING CONSTITUENTS NOT LISTED INDICATE RESULTS BELOW THE LABORATORY DETECTION LIMITS. (I.E. NOT DETECTED IN THE SAMPLE ABOVE QUANTITATION LIMITS)

Table 1 - Summary of Soil Analytical Testing Results (Detections Only)

		Interim Trail (South Section)																	
Sample Designation		GP-272+29		MW-268+04		GP-266+15	GP-264+28			MW-06	GP-260+49	GP-258+69		GP-256+71	TW-38	GP-252+57		TW-7	
Sample Collection Date:		4-Mar-14		20-Feb-14		4-Mar-14	4-Mar-14			8-Dec-04	4-Mar-14	5-Mar-14		5-Mar-14	6-Dec-04	5-Mar-14		4-Dec-04	
Consultant:		Wood		Wood		Wood	Wood			Wood	Wood	Wood		Wood	Wood	Wood		Wood	
Sample Depth (feet):																			
Constituents	Type 3 RRS (Surface)*	Type 5 RRS*	1-3	8-10	0-1.5	6-7.5	2-4	1-3	8-10	20-22	8.5-10	4-6	1-3	8-10	1-3	2-3	1-3	6-8	2-3
	Volatile Organic Compounds (VOCs) (µg/Kg)																		
Tetrachloroethene	500	—	BRL	BRL	BRL	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—	BRL	BRL	BRL	—	BRL
Toluene	100,000	—	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—	9.84	BRL	BRL	—	BRL
Xylenes	1,000,000	—	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—	24.74	BRL	BRL	—	BRL
Semi-Volatile Organic Compounds (SVOCs) (µg/Kg)																			
2-Methylnaphthalene	—	—	—	—	—	—	—	—	—	—	330	—	—	—	—	—	—	—	—
Anthracene	1,009,000	—	BRL	BRL	BRL	782	BRL	BRL	BRL	—	—	BRL	BRL	—	BRL	740	BRL	—	BRL
Benz[a]anthracene	5,000	—	BRL	BRL	BRL	2560	BRL	BRL	BRL	—	720	BRL	BRL	—	BRL	1400	BRL	—	BRL
Benzo[a]pyrene	1,640	—	BRL	BRL	BRL	2200	BRL	BRL	BRL	—	720	BRL	BRL	—	BRL	1500	BRL	—	BRL
Benzo[b]fluoranthene	5,000	—	BRL	BRL	BRL	3120	BRL	BRL	BRL	—	640	BRL	BRL	—	BRL	1900	BRL	—	BRL
Benzo[g,h,i]perylene	500,000	—	BRL	BRL	BRL	1510	BRL	BRL	BRL	—	500	BRL	BRL	—	BRL	BRL	BRL	—	BRL
Benzo[k]fluoranthene	46,060	—	BRL	BRL	BRL	1030	BRL	BRL	BRL	—	600	BRL	BRL	—	BRL	780	BRL	—	BRL
Chrysene	141,590	—	BRL	BRL	BRL	2410	BRL	BRL	BRL	—	860	BRL	BRL	—	BRL	1500	BRL	—	BRL
Fluoranthene	500,000	—	BRL	BRL	BRL	5990	BRL	BRL	BRL	—	1400	BRL	BRL	—	BRL	3400	BRL	—	BRL
Indeno[1,2,3-cd]pyrene	15,300	—	BRL	BRL	BRL	1240	BRL	BRL	BRL	—	420	BRL	BRL	—	BRL	BRL	BRL	—	BRL
Phenanthrene	110,000	—	BRL	BRL	BRL	3670	BRL	BRL	BRL	—	1300	BRL	BRL	—	BRL	2900	615	—	BRL
Pyrene	500,000	—	BRL	BRL	BRL	4550	BRL	BRL	BRL	—	1300	BRL	BRL	—	BRL	3400	738	—	BRL
RCRA 8 Metals (mg/Kg)																			
Arsenic	38.12	63	46.7	BRL	BRL	29.6	BRL	BRL	BRL	—	—	28.5	96.7	38.5	14	—	372	577	—
Barium	1,000	—	85.6	71.1	123	258	74.9	81.3	97	—	—	88.5	102	—	67.1	—	131	—	—
Cadmium	39	—	1.01	BRL	1.09	3.03	BRL	1.66	1.12	—	—	1.55	1.45	—	BRL	—	0.773	—	—
Chromium, Total	1,200	—	15.8	BRL	19.4	37	BRL	39.9	42.2	—	—	31.6	39.9	—	BRL	—	12.7	—	—
Lead	400	—	15.1	7.25	35.3	357	13.2	25.2	14.5	—	—	46.1	28.8	—	5.53	—	57.4	—	—
Mercury	17	—	BRL	BRL	0.122	0.976	BRL	BRL	BRL	—	—	0.0891	0.107	—	BRL	—	0.135	—	—
Other Compounds (mg/Kg)																			
Cyanide	20,640	—	—	—	BRL	0.8	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Phenolics	—	—	—	—	2.14	10.6	BRL	BRL	—	—	—	BRL	3.44	—	BRL	—	—	—	—
Pesticides (mg/Kg)																			
4,4-DDE	2,800	—	—	—	BRL	0.0159	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
4,4-DDT	2,840	—	—	—	BRL	0.0198	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Alpha-Chlordane	9,200	—	—	—	BRL	0.00767	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Chlordane-Technical	9,200	—	—	—	BRL	0.0483	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Endrin Aldehyde	10,000	—	—	—	BRL	0.0104	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Gamma-Chlordane	9,200	—	—	—	BRL	0.00607	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—
Polychlorinated Biphenyls (PCBs) (mg/Kg)																			
Aroclor-1260	1,550	—	—	—	BRL	0.219	BRL	BRL	—	—	—	BRL	BRL	—	BRL	—	—	—	—

Notes:

- Detection - Exceeds Type 3 Non-Residential Risk Reduction Standard (RRS)
- BRL - Below Laboratory Reporting Limit for Constituent(s)
- < ##.## - Laboratory Reporting Limit for Constituent
- µg/Kg - Micrograms per kilogram
- mg/Kg - Milligrams per kilogram
- - Not Established / Not Analyzed / Not Applicable
- * - Type 3 and Type 5 RRS obtained from CAP Amendment #2 Approval Letter (April 14, 2011)

THIS TABLE SUMMARIZES DETECTED CONSTITUENTS IN THE SAMPLES ANALYZED. REMAINING CONSTITUENTS NOT LISTED INDICATE RESULTS BELOW THE LABORATORY DETECTION LIMITS. (I.E. NOT DETECTED IN THE SAMPLE ABOVE QUANTITATION LIMITS)

Table 2 - Summary of Groundwater Analytical Testing Results (Detections Only)

Constituents	Sample Designation	UCMW-1	UCMW-5	MW-268+04	MW-04	MW-06	TW-38	TW-7
	Consultant	United	United	Wood	Wood	Wood	Wood	Wood
	Type 1 GC ¹	8-Nov-21	9-Nov-21	25-Apr-14	13-Dec-04	13-Dec-04	7-Dec-04	13-Dec-04
Volatile Organic Compounds (VOCs) (µg/L)								
Tetrachloroethene	5	< 5.0	< 5.0	< 1	< 5	< 5	< 5	6.1
Semi-Volatile Organic Compounds (SVOCs) (µg/L)								
Target Compound List	Various	BRL	BRL	BRL	BRL	—	BRL	BRL
Total Metals (RCRA 8 Metals) (mg/L) [Dissolved Analysis]								
Barium	2.0	0.186 [0.101]	0.183 [0.107]	0.0665 [0.0657]	0.0303 [0.0297]	0.38 [0.372]	—	0.183 [0.136]
Chromium	0.10	< 0.0100 [< 0.0100]	0.0228 [< 0.0100]	< 0.05 [< 0.05]	< 0.01 [< 0.01]	< 0.01 [< 0.01]	—	< 0.01 [< 0.01]
Other Compounds (mg/L)								
Cyanide	0.20	—	—	BRL	—	—	—	—
Phenolics	4.0	—	—	BRL	—	—	—	—
Pesticides (mg/L)								
Target Compound List	Various	—	—	BRL	—	—	—	—
Polychlorinated Biphenyls (PCBs) (mg/L)								
Target Compound List	Various	—	—	BRL	BRL	—	—	—

Notes:

- | | |
|----------|---|
| | - Exceeds Type 1 Groundwater Criteria |
| BRL | - Below Laboratory Reporting Limit for Constituent(s) |
| < ###.## | - Laboratory Reporting Limit for Constituent |
- - Not Analyzed
 - µg/L - Micrograms per liter
 - mg/L - Milligrams per liter
 - United - United Consulting
 - Wood - Wood Group (formerly Amec Foster Wheeler & MACTEC)
 - ¹ - Response and Remediation Program (RRP) Type 1 Groundwater Criteria

THIS TABLE SUMMARIZES DETECTED CONSTITUENTS IN THE SAMPLES ANALYZED. REMAINING CONSTITUENTS NOT LISTED INDICATE RESULTS BELOW THE LABORATORY DETECTION LIMITS. (I.E. NOT DETECTED IN THE SAMPLE ABOVE QUANTITATION LIMITS)

Table 3 - Summary of Estimated Soil Remediation Volumes Per Remediation Area

Remediation Area	Constituent(s)	Delineated Area (sq. ft.)	Conflict Utility Status	Total Estimated Area	Remediation Depth (ft.)	Cubic Feet	Cubic Yards	Tons	w/20% Contingency
Area 1	Arsenic	707	No Conflicts	707	1	707	26	39	47
Area 2*	Benzo(a)pyrene	375	Conflict not being removed	375	7.5	2813	104	156	188
Area 3	Arsenic	478	Conflict not being removed	478	1	478	18	27	32
Area 4	Arsenic	510	Conflict not being removed	510	1	510	19	28	34
Total						167**	250**	301**	

Notes:

Volume estimates assume 1:1 sidewalls.

Some Remediation Area boundaries are defined by approximate utility locations.

United Consulting not responsible for damage to utilities.

Tonnage conversion used was 1.5 tons per cubic yard, actual could be more or less.

*Additional confirmation sampling will be needed prior to or during remediation activities to establish the final lateral and vertical removal limits.

**Volume is approximate based on the required lateral/vertical delineation at Area 2, and field conditions at Areas 1, 3, and 4.

Table only applies to the above listed remediation areas, in accordance with the PPCAP, as amended.

It does not include volumes that may require landfill disposal if soils are removed from the limits of the existing railroad corridor.

APPENDIX A

Cut/Fill Analyses & Final Plans



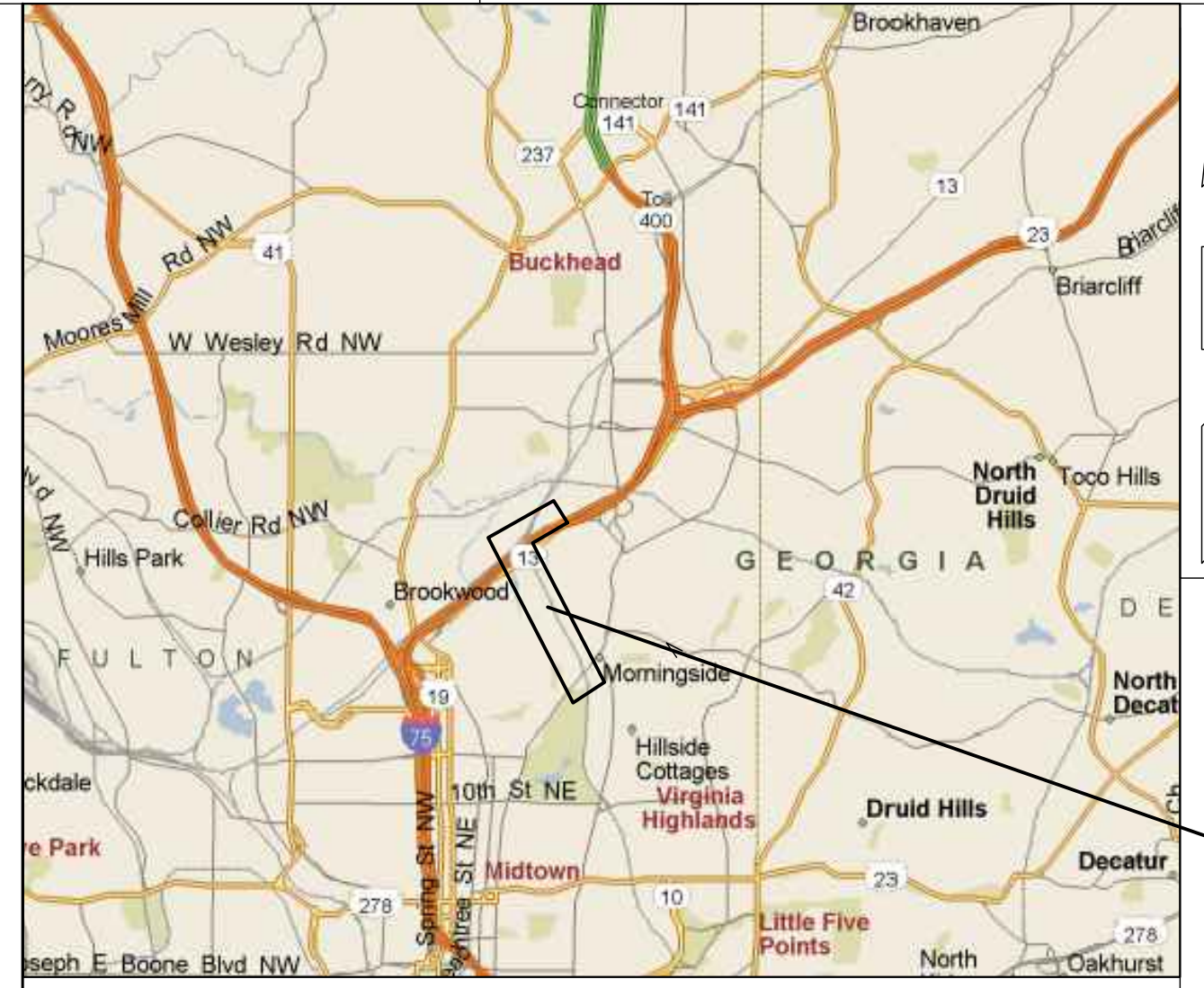
Volume SurfaceName	Cut Factor	Fill Factor	2d Area (ac)	Raw Cut (Cu.Yd.)	Adj Cut (Cu.Yd.)	Raw Fill (Cu.Yd.)	Adj Fill (Cu.Yd.)	Net (Cu.Yd.)	Net Type
Earthwork North Portion of Trail									
Earthwork_North	1	1.25	0.6	116.82	116.82	1999.33	2499.1625	2382.3425	FILL
Earthwork_Mayson	1	1.25	0.2	158.91	158.91	47.17	58.9625	99.9475	CUT
Earthwork_MaysonPond	1	1.25	0.13	289.17	289.17	12.41	15.5125	273.6575	CUT
Totals			1.3	564.9	564.9	2058.91	2573.6375	2008.7375	FILL
Earthwork South Portion of Trail									
Earthwork_South	1	1.25	2.12	1130.23	1130.23	5644.78	7055.975	5925.745	FILL
Earthwork_EastSwale	1	1.25	0.08	116.33	116.33	6.23	7.7875	108.5425	CUT
Earthwork_PiedmontSE	1	1.25	0.02	53.4	53.4	14.67	18.3375	35.0625	CUT
Earthwork_Pond B1	1	1.25	0.37	1421.35	1421.35	113.46	141.825	1279.525	CUT
Totals			2.26	2721.31	2721.31	5779.14	7223.925	4502.615	FILL
Project Total									
Project Total								6511.3525	FILL

ATLANTA BELTLINE

NORTHEAST TRAIL FULTON COUNTY

FINAL PLANS
10/19/2021

FEDERAL ROUTE # N/A
STATE ROUTE # 13, 403
P.I.NO. N/A



LOCATION SKETCH

DESIGN DATA:
TRAFFIC A.D.T.: N/A
TRAFFIC A.D.T.: N/A
TRAFFIC D.H.V.: N/A
DIRECTIONAL DIST: N/A
% TRUCKS: N/A
24 HR.TRUCKS %: N/A
SPEED DESIGN: 20 MPH (MAINLINE TRAIL)
SPEED DESIGN: 12 MPH (SIDE TRAIL CONNECTIONS)

LOCATION & DESIGN APPROVAL DATE:

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 5.

PROJECT DESIGNATION: EXEMPT
DESIGNED IN ENGLISH UNITS.

THIS PROJECT TO BE CONSTRUCTED AS PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2021 EDITION, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND AS MODIFIED BY CONTRACT DOCUMENTS.

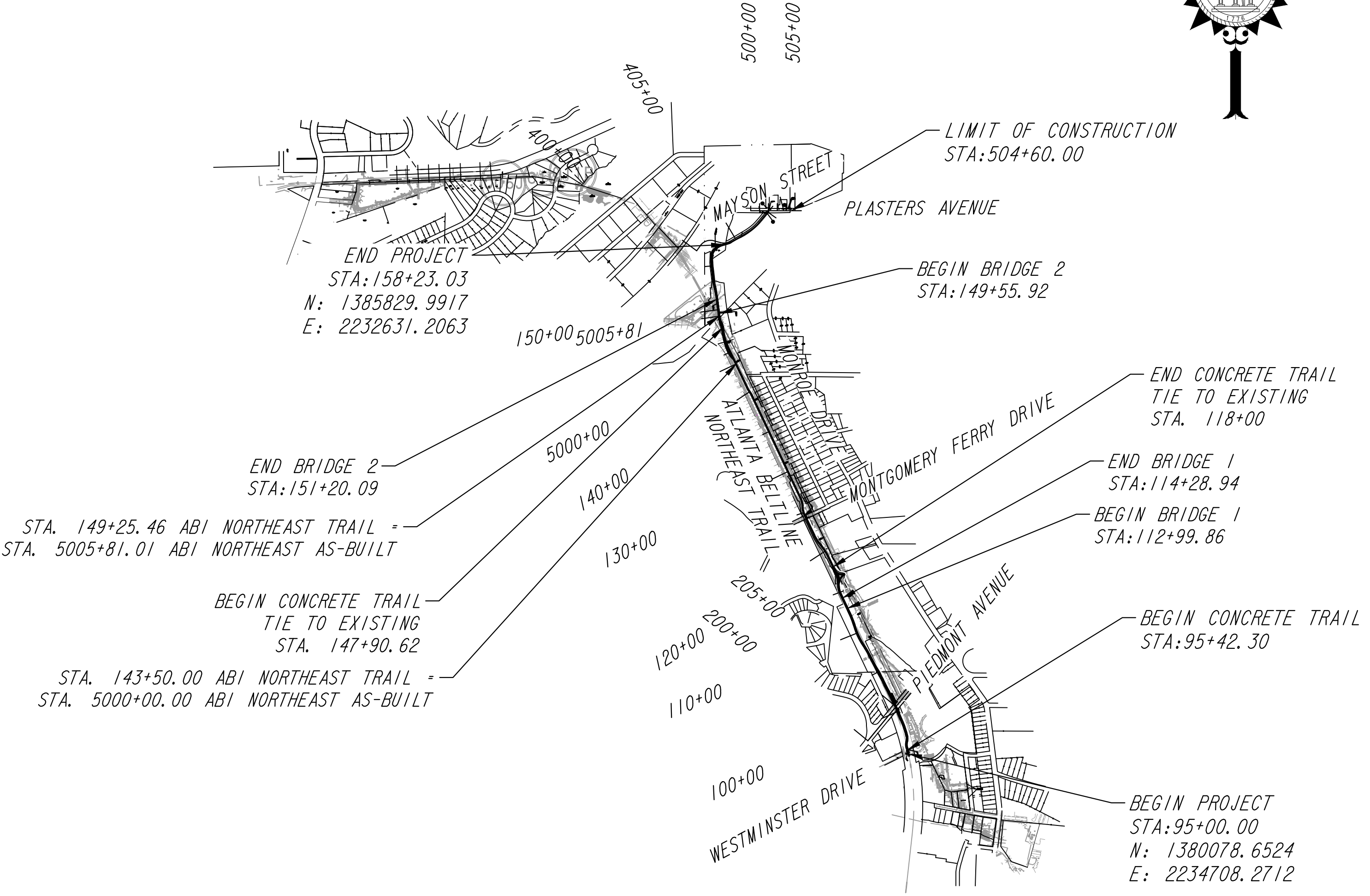
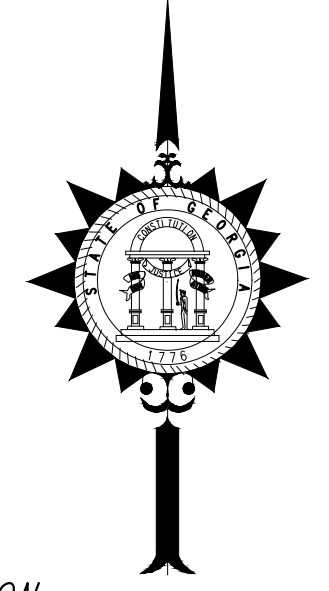
THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH TITLE II PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT; THE DISTURBED AREA IS 131 ACRES. THE PROJECT INVOLVES INSTALLATION OF PAVEMENT, DRAINAGE STRUCTURES, SIDEWALKS, CURB RAMPS AND STRIPING CROSSWALKS.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE CITY OF ATLANTA IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

PROJECT LOCATION

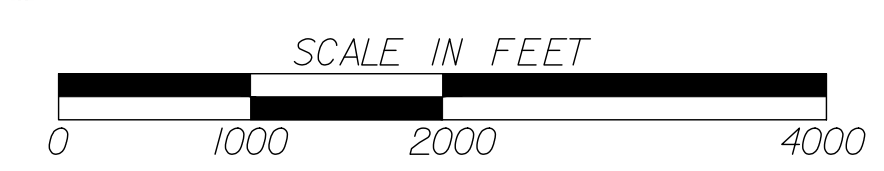


Kimley»Horn

Engineering, Planning, and Environmental Consultants
817 W. Peachtree Street, NW
Atlanta, Georgia 30308

PREPARED BY: KIMLEY-HORN AND ASSOCIATES, INC.

LENGTH OF PROJECT	FULTON CO COUNTY No. 121
	MILES
NET LENGTH OF TRAIL	1.142
NET LENGTH OF BRIDGES	0.056
NET LENGTH OF PROJECT	1.198
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.198



PLANS COMPLETED : 10/19/2021	
REVISIONS	

DWG NO.	DESCRIPTION
	INDEX
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04-001	GENERAL NOTES
05-001 TO 05-004	TYPICAL SECTIONS
06-001 TO 06-005	SUMMARY OF QUANTITIES
07-001	QUANTITIES REQUIRED ON AMENDMENT
08-001	QUANTITIES REQUIRED ON CONSTRUCTION
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13-001 TO 13-015	CONSTRUCTION PLAN - ATLANTA BELTLINE NORTHEAST TRAIL
15-001 TO 15-003	MAINLINE PROFILE
16-001 TO 16-002	CROSSROAD PROFILE
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24-101 TO 24-102	UTILITY DETAILS
24-201	UTILITY DETAILS
25-000	LIGHTING GENERAL NOTES AND LEGEND
25-001 TO 25-015	LIGHTING PLAN SHEETS
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25-201 TO 25-202	LIGHTING AND PANELBOARD SCHEDULES
25-301	WIRING DIAGRAMS
29-000 TO 29-015	TREE PROTECTION SHEETS
32-0001 TO 32-0018	SPECIAL DESIGN WALL SHEETS
35-0001 TO 35-0009	BRIDGE LAYOUT AND DETAIL SHEETS - BRIDGE No. 1 - CLEAR CREEK
35-0101 TO 35-0109	BRIDGE LAYOUT AND DETAIL SHEETS - BRIDGE No. 2 - BUFORD SPRING CONNECTOR/SR 13
38-000 TO 38-007	SPECIAL CONSTRUCTION DETAILS - HARDSCAPE DETAILS
38-100 TO 38-103	SPECIAL CONSTRUCTION DETAILS - DRAINAGE DETAILS
50-001	EROSION CONTROL COVER SHEET
51-001 TO 51-006	ESPCP GENERAL NOTES
52-001 TO 52-007	EROSION CONTROL LEGEND
54-001 TO 54-030	BMP LOCATION DETAILS
56-001 TO 56-003	ESPCP DETAILS

DWG NO.	DESCRIPTION
	CONSTRUCTION DETAILS
	CONSTR. DETAIL (A-3)-CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS (09/2016)
	CONSTR. DETAIL (A-4)-DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS (06/2009)
	CONSTR. DETAIL (D-18)-REINFORCED CONCRETE SADDLE FOR PIPE CULVERTS (06/1976)
	CONSTR. DETAIL (D-24A)-TEMPORARY SILT FENCE (SHEET 1 OF 4) (01/2011)
	CONSTR. DETAIL (D-24C)-TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4) (01/2011)
	CONSTR. DETAIL (D-34)-PIPE/BOX CULVERT COLLAR CONNECTION DETAIL (03/1988)
	CONSTR. DETAIL (D-35)-PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MAT) INSTALLATION ON DITCHES (01/2011)
	CONSTR. DETAIL (D-41)-CONSTRUCTION EXIT (08/2020)
	CONSTR. DETAIL (D-42)-INLET SEDIMENT TRAP (05/2008)
	CONSTR. DETAIL (D-44)-RETROFITTING STRUCTURE FOR TEMPORARY SEDIMENT FILTER-PERFORATED HALF ROUND PIPE WITH STONE FILTER (07/2018)
	CONSTR. DETAIL (D-45)-RETROFITTING STRUCTURE FOR TEMPORARY SEDIMENT FILTER-SLOTTED BOARD DAM WITH STONE FILTER (07/2018)
	CONSTR. DETAIL (D-46)-STONE FILTER RING (07/2018)
	CONSTR. DETAIL (D-49)-DITCH BACK OF RETAINING WALL SWALE DITCHES;RIP RAP DITCH (02/2011)
	CONSTR. DETAIL (D-53)-ROCK OUTLET TEMPORARY SEDIMENT TRAP (04/2016)
	CONSTR. DETAIL (D-55A)-RIPRAP OUTLET PROTECTION (SHEET 1 OF 2) (04/2016)
	CONSTR. DETAIL (D-55B)-RIPRAP OUTLET PROTECTION (SHEET 2 OF 2) (04/2016)
	CONSTR. DETAIL (D-56)-STONE RIP RAP AND SAND BAG TEMPORARY CHECK DAMS (11/2018)
	CONSTR. DETAIL (T-1)-SIGN PLATES (01/2000)
	CONSTR. DETAIL (T-2)-DETAILS FOR TYPICAL FRAMING (03/2000)
	CONSTR. DETAIL (T-3A)-TYPE 7,8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL (07/2002)
	CONSTR. DETAIL (T-3B)-DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT) (01/2000)
	CONSTR. DETAIL (T-11A)-DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY (09/2016)
	CONSTR. DETAIL (T-21)-TRAFFIC CONTROL PEDESTRIAN ACCESSIBILITY AROUND WORKZONE - SIDEWALK DETOUR (10/2008)
	GEORGIA STANDARDS
	GA. STD. 1001B-PIPE CULVERT CONCRETE HEADWALL (08/1999)
	GA. STD. 1004A RUBBLE MASONRY HEADWALLS FOR PIPE CULVERTS (08/1999)
	GA. STD. 1011AP-PRECAST REINFORCED CONCRETE MANHOLE (06/1975)
	GA. STD. 1019AP-PRECAST DROP INLETS (08/1999)
	GA. STD. 1120-FLARED END SECTIONS FOR PIPES (06/2006)
	GA. STD. 3901-BAR BENDING DETAILS (08/1969)
	GA. STD. 9031L-GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG (09/2016)
	GA. STD. 9031L2-DETAILS OF: CATCH BASINS MODIFIED FOR DOUBLE GRATES - DROP INLET MODIFIED FOR DOUBLE GRATE, CONCRETE SPRING BOX, CONCRETE STEPS, CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT CAPPING EXISTING DROP INLET (06/1998)
	GA. STD. 9031R-PLACING ROOF DRAIN PIPE UNDER SIDEWALK - RAMP TYPE BARRICADE PIPE HANDRAIL FOR RETAINING WALL PIPE HANDRAIL FOR CONCRETE STEPS (10/1988)
	GA. STD. 9031S-MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON (04/1996)
	GA. STD. 9032B-CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS (02/2020)
	GA. STD. 9037-TYPICAL FILL DETAIL AT END OF BRIDGE (09/1999)
	GA. STD. 9100-TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS (03/2006)
	GA. STD. 9102-TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO LANE HIGHWAY (03/2006)
	GA. STD. 9107-TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY (03/2006)
	GEORGIA STANDARDS AND CONSTRUCTION DETAILS REQUIRED FOR THIS PROJECT ARE LISTED IN THE INDEX WITH THE LATEST REVISION DATES BUT ARE NOT INCLUDED AS PART OF THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STANDARDS AND CONSTRUCTION DETAILS SHOWN IN THE INDEX AND MAINTAINING ON THE PROJECT SITE. FULL SIZE PRINTS MAY BE PURCHASED BY THE CONTRACTOR FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION.

REVISIONS
DATE
BY

REVISIONS
DATE
BY



NOT TO SCALE

REVISION DATES

INDEX
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
02-001

PROJECT NOTES

1. A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 13.1 ACRES. THE PROJECT INVOLVES INSTALLATION OF TRAIL AND CURB RAMPS, AND STRIPING CROSSWALKS. THEREFORE, NET GAIN IN IMPERVIOUS IS 1.50 ACRES.
2. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. THERE IS NO SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS AND DISPOSE OF EXISTING BRIDGE AND CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO ATLANTA BELTLINE, INC., THE DEPARTMENT OR CITY OF ATLANTA.
4. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION. ANY CONTAMINATED SOIL EXCAVATED DURING CONSTRUCTION ACTIVITIES ALONG THE PROJECT MUST BE DISPOSED OF AT A PERMITTED LINED MUNICIPAL SOLID WASTE LANDFILL.
5. AT ALL LOCATIONS WHERE EXISTING CURB, SIDEWALK OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE, TO BE PAID FOR BY GRADING COMPLETE.
6. THE COST OF SAW CUTTING ASPHALTIC CONCRETE AND/OR CONCRETE SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER PRIOR TO STARTING WORK.
8. ALL ADA RAMPS AND SIDEWALK WITHIN THE INTERSECTION RADIUS ARE TO BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS INCLUDING DETECTABLE WARNING STRIPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.
9. ALL SIGNS WITHIN PROJECT LIMITS WILL BE REPLACED AS SHOWN ON THE SIGNING AND MARKING PLANS.
10. FINISH GRADES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEW SIDEWALK AND TRAIL AREAS ARE GRADED TO DRAIN, EITHER TO EXISTING OR NEW STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL ACCESSIBILITY CODES.
11. NO BURNING OF MATERIALS WILL BE ALLOWED ON SITE.
12. ALL MINOR UTILITY STRUCTURES, SUCH AS VALVES, METERS, FIRE HYDRANTS AND MANHOLES, WILL BE ADJUSTED TO FINAL GRADE AND WILL BE PAID FOR UNDER GRADING COMPLETE.
13. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE RETAINED UNLESS MARKED OTHERWISE ON THE PLANS.
14. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE CLEANED OUT PRIOR TO CONSTRUCTION AND KEPT FREE OF DEBRIS.
15. ALL PROPOSED STORM DRAINAGE PIPES FOR CONVEYANCE SHALL BE REINFORCED CONCRETE. UNDERGROUND STORAGE AND INFILTRATION STORM DRAINAGE PIPES ARE TO BE CONTRACTOR-DESIGNED.
16. CONTRACTOR SHALL SURVEY AND STAKE EXISTING PROPERTY LINES IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION.
17. CONTRACTOR SHALL USE PHOTOGRAPHS OR VIDEO RECORDINGS TO DOCUMENT EXISTING CONDITIONS OF ADJACENT PROPERTY PRIOR TO CONSTRUCTION. FEATURES TO BE DOCUMENTED INCLUDE BUILDING STRUCTURES, WALLS, FENCES, SIGNIFICANT LANDSCAPING FEATURES. ACCESS TO PRIVATE PROPERTY SHALL BE COORDINATED WITH ATLANTA BELTLINE, INC..
18. POST INSTALLATION INSPECTION WILL BE PERFORMED ON ALL STORM DRAIN PIPE AND A MINIMUM OF 10% OF SIDE DRAIN PIPE, PER GDOT STANDARD SPECIFICATIONS SECTION 550. VIDEO AND LASER PROFILING AND MEASUREMENT TECHNOLOGY MUST BE CERTIFIED BY THE COMPANY PERFORMING THE WORK TO MEET THE REQUIREMENTS OF GDOT 136.
19. NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY DRAINAGE ITEMS. COST WILL BE INCLUDED IN OVERALL BID SUBMITTED.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SOIL PREPARATION: "LOOSEN SUBGRADE OF PLANTING AREAS TO A MINIMUM DEPTH OF 12 INCHES. CLEAN SOIL OF ROOTS, PLANTS, SOD, STONES >1" DIAMETER, CLODS, CLAY LUMPS, POCKETS OF COARSE SAND, CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, STONE BALLAST AND ALL RAILROAD BASE COURSES TO FULL DEPTH, CEMENT, PLASTER, BUILDING DEBRIS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. THE CONTRACTOR SHALL CONSULT WITH THE PLANTING CONTRACTOR AND ENGINEER BEFORE LOOSENING THE SUBGRADE AS OUTLINED IN THIS SPECIFICATION."
22. THE CONTRACTOR WILL COORDINATE WITH MARTA REGARDING TEMPORARY IMPACTS TO BUS STOP LOCATIONS.
23. THIS PROJECT CONTAINS POST CONSTRUCTION BMP'S.
24. IF POST CONSTRUCTION STORMWATER BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE DESIGN ENGINEER. MODIFICATION MUST BE APPROVED BY THE CITY OF ATLANTA PRIOR TO INSTALLATION.
25. INSTALLATION OF PLANT TOPSOIL AND PERMANENT LANDSCAPING MAY NOT PROCEED UNTIL CONFIRMATION SAMPLING FOR CONTAMINATED SOILS IS COMPLETE.
26. DRIVEWAYS, WHERE ACCESS IS ALLOWED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH RULES AND REGULATIONS FOR CONTROL AND PROTECTION OF CITY RIGHTS-OF-WAY. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED, IN KIND, I.E., ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND ASPHALT SURFACE COURSE FOR EARTH. THE DRIVEWAY LOCATIONS INDICATED ON THE PLANS ARE FROM THE BEST AVAILABLE. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS WHERE THEY ARE NOT IN CONFLICT WITH THE RULES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE ENGINEER PRIOR TO MAKING ANY REVISIONS SUCH AS TO LOCATION, WIDTH AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED.

WHERE REQUIRED THE DRIVES SHALL BE PAVED AS FOLLOWS:

ASPHALTIC DRIVES:

- RESIDENTIAL:
 - RECYCLED ASPH. CONC. 12.5 mm SUPERPAVE GP 2 ONLY (INCL BITUM MATL AND H LIME) (165 LB/SY)
 - 6" GRADED AGGREGATE BASE

- COMMERCIAL:
 - RECYCLED ASPH. CONC. 12.5 mm POLYMER-MODIFIED SUPERPAVE GP 2 ONLY (INCL BITUM MATL AND H LIME) (165 LB/SY)
 - RECYCLED ASPH. CONC. 19 mm SUPERPAVE (220 LB/SY)
 - 8" GRADED AGGREGATE BASE

CONCRETE DRIVES:

- RESIDENTIAL:
 - 6" CONCRETE VALLEY GUTTER
 - 6" CONCRETE DRIVEWAY

- COMMERCIAL:
 - 8" CONCRETE VALLEY GUTTER
 - 8" CONCRETE DRIVEWAY

SIGNING AND MARKING NOTES

1. ALL STANDARD SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
3. ALL SIGNS ON PUBLIC STREETS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
4. HORIZONTAL CLEARANCE FOR TRAIL SIGNS SHALL BE 3 FEET FROM THE EDGE OF THE TRAIL PAVING TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS.
5. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
6. SIGN ASSEMBLIES ON PUBLIC STREETS SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
7. TYPE 1X (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
8. TYPE XI (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
9. TYPE XI (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
10. TYPE XI (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 1X (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
11. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
12. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
13. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELD REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
14. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OR MISCELLANEOUS SIGNS.
15. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
16. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES OR ACCESS OCCUR BEYOND THE ORANGE BARRIER FENCING. THE ORANGE BARRIER FENCINGS SHALL BE PLACED AROUND CLEAR CREEK TO PROTECT IT DURING PROJECT IMPLEMENTATION. THE ORANGE BARRIER FENCING SHALL BE PLACED AROUND MATURE TREES IN THE CONSTRUCTION EASEMENTS TO PROTECT THEM DURING PROJECT IMPLEMENTATION.
2. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENT, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, AND TRAILER PLACEMENT), OTHER THAN THOSE SHOWN ON THE APPROVED PLANS, OCCUR WITHIN THE BOUNDARY OF CLEAR CREEK.
3. TREES 3" AND LARGER LOCATED WITHIN THE CORRIDOR RIGHT OF WAY SHALL BE REPLACED INCH PER INCH IN ACCORDANCE WITH THE CITY OF ATLANTA PARKS AND RECREATION TREE ORDINANCE.
4. DISTURBED GRASSED AREAS SHALL BE RE-GRASSED AFTER PROJECT IMPLEMENTATION.



UTILITY OWNERS	
FACILITY	OWNER
	ATLANTA GAS LIGHT COMPANY
GAS	CHARTER
WATER	CITY OF ATLANTA
SEWER	CITY OF ATLANTA
ELECTRIC-OVHD	GEORGIA POWER - DISTRIBUTION
ELECTRIC-UG	GEORGIA POWER - DISTRIBUTION
ELECTRIC-OVHD	GEORGIA POWER - TRANSMISSION
ELECTRIC-UG	GEORGIA POWER - TRANSMISSION
FIBER/PHONE	UNKNOWN

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

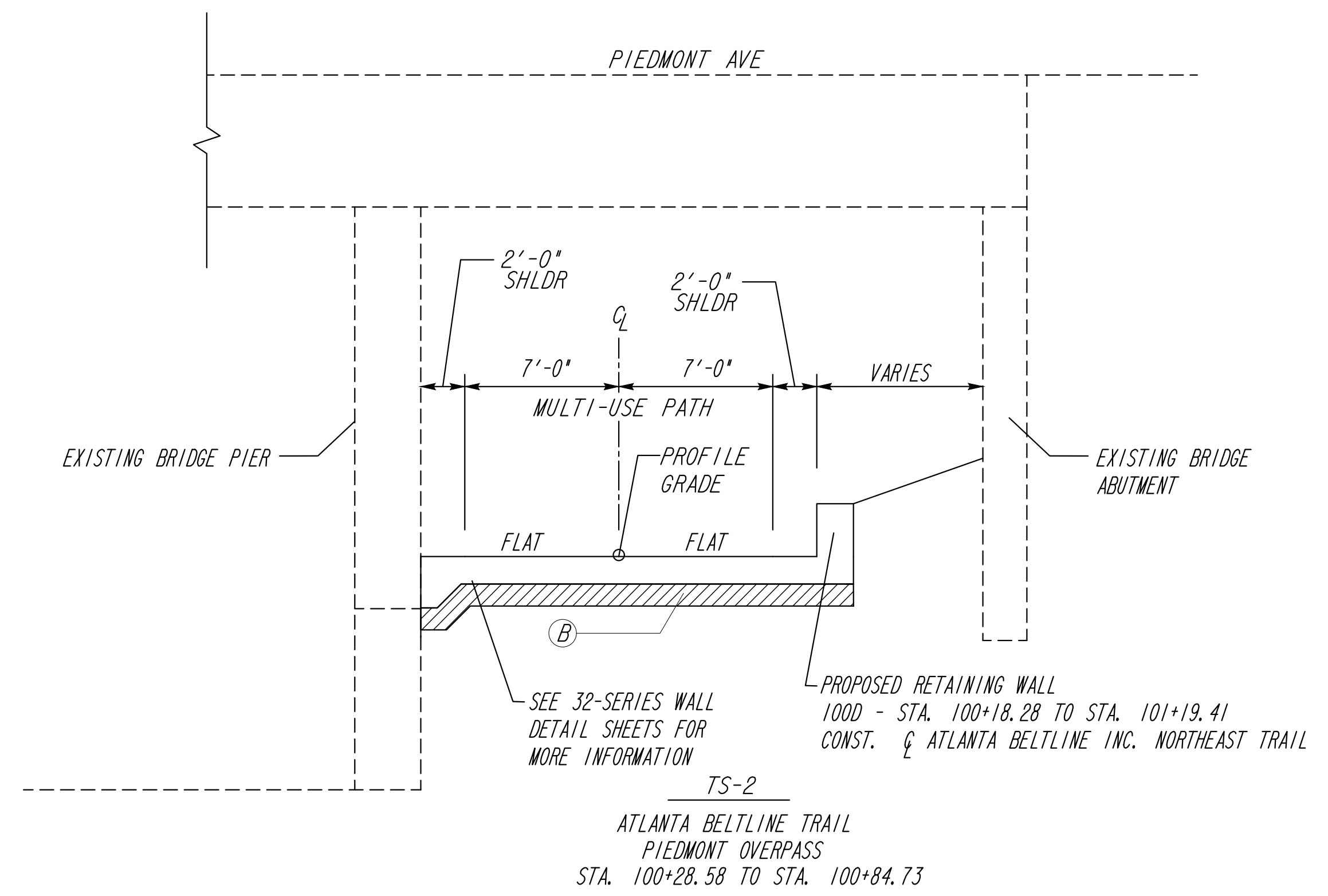
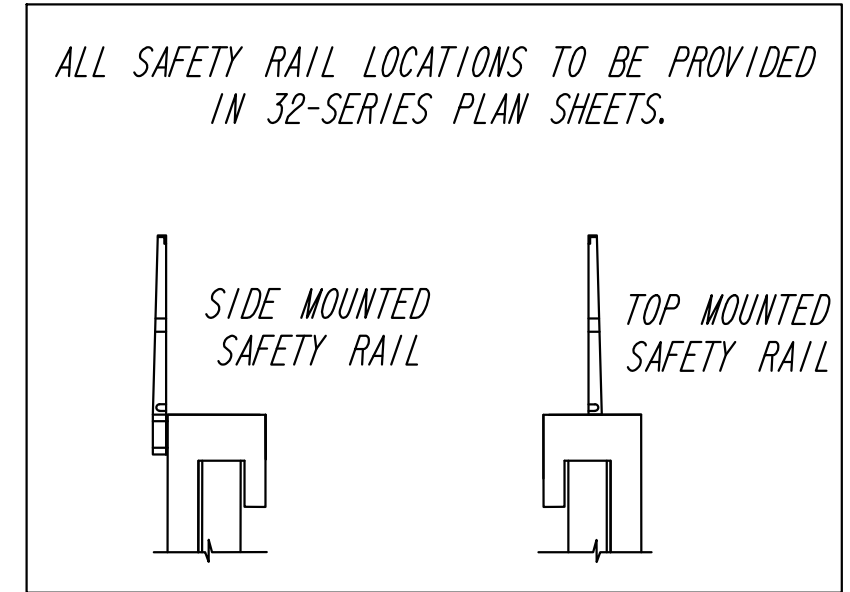
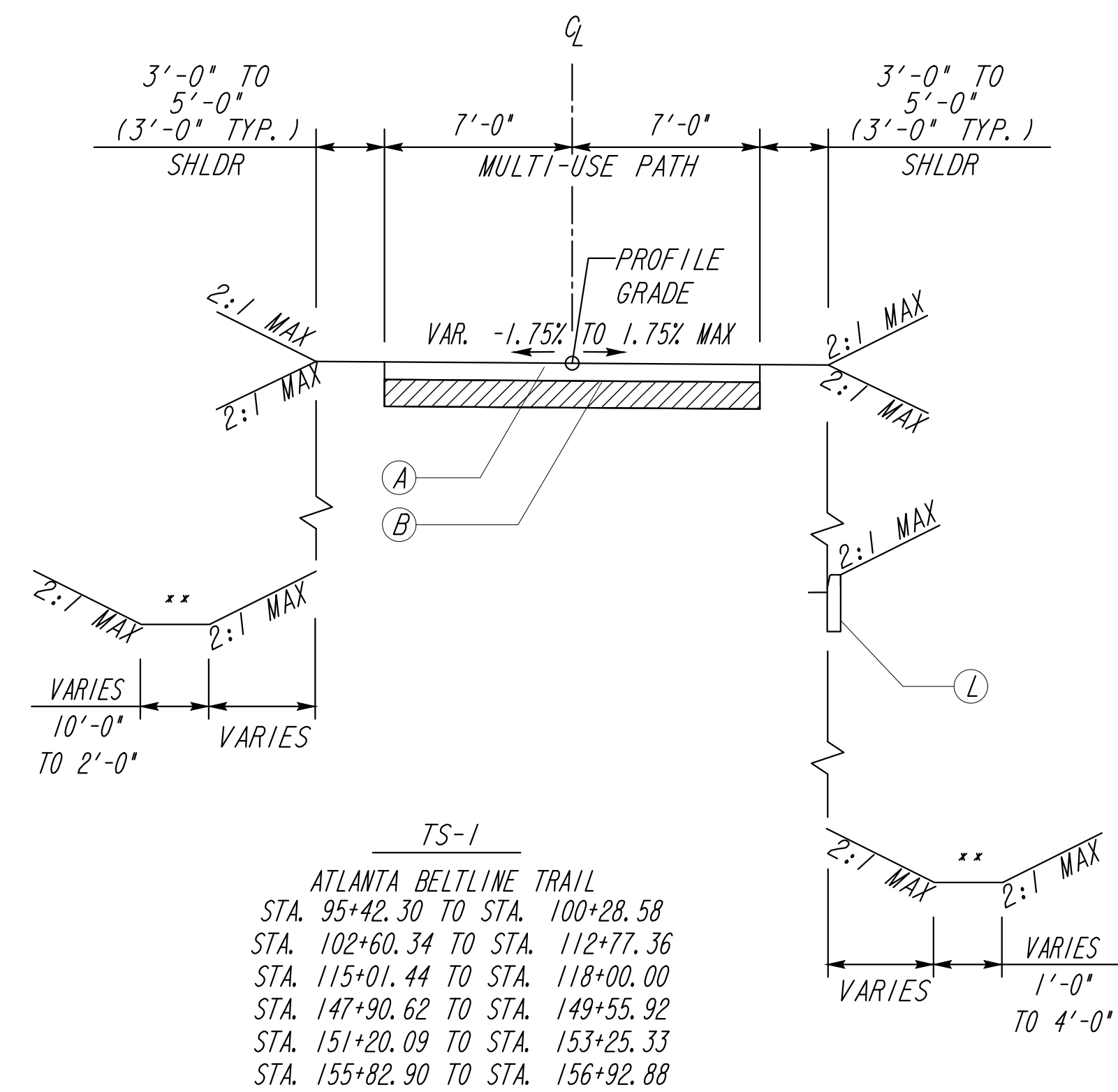
Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

REVISION DATES

NO.	DATE	DESCRIPTION

GENERAL NOTES
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



** SEE PLANS FOR DITCH/SWALE LOCATIONS

- REQUIRED PAVEMENT
- (A) 6" CLASS "AA" CONCRETE, SPECIAL FINISH (SEE 38-SERIES SHEETS)
 - (B) GR AGGR BASE CRS, 8 INCH, INCL MATL
 - (C) 6" CLASS "AA" CONCRETE
 - (D) 4" SIDEWALK (SEE 38-SERIES SHEETS)
 - (E) 1.5" RECYCLED ASPH CONC 12.5 MM SUPERPAVE GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
 - (F) MILL ASPH CONC 1.5 INCH DEPTH
 - (G) CONC CURB & GUTTER, 8 IN X 24 IN, TP 2
 - (H) EXISTING PAVEMENT TO REMAIN
 - (I) EXISTING CURB AND GUTTER TO REMAIN
 - (J) CONCRETE HEADER CURB, 8 IN X 6 IN, TP 2
 - (K) EXISTING CONCRETE TRAIL TO REMAIN
 - (L) GRANITE HEADER CURB, VARIABLE HEIGHT

Atlanta BeltLine

Kimley-Horn

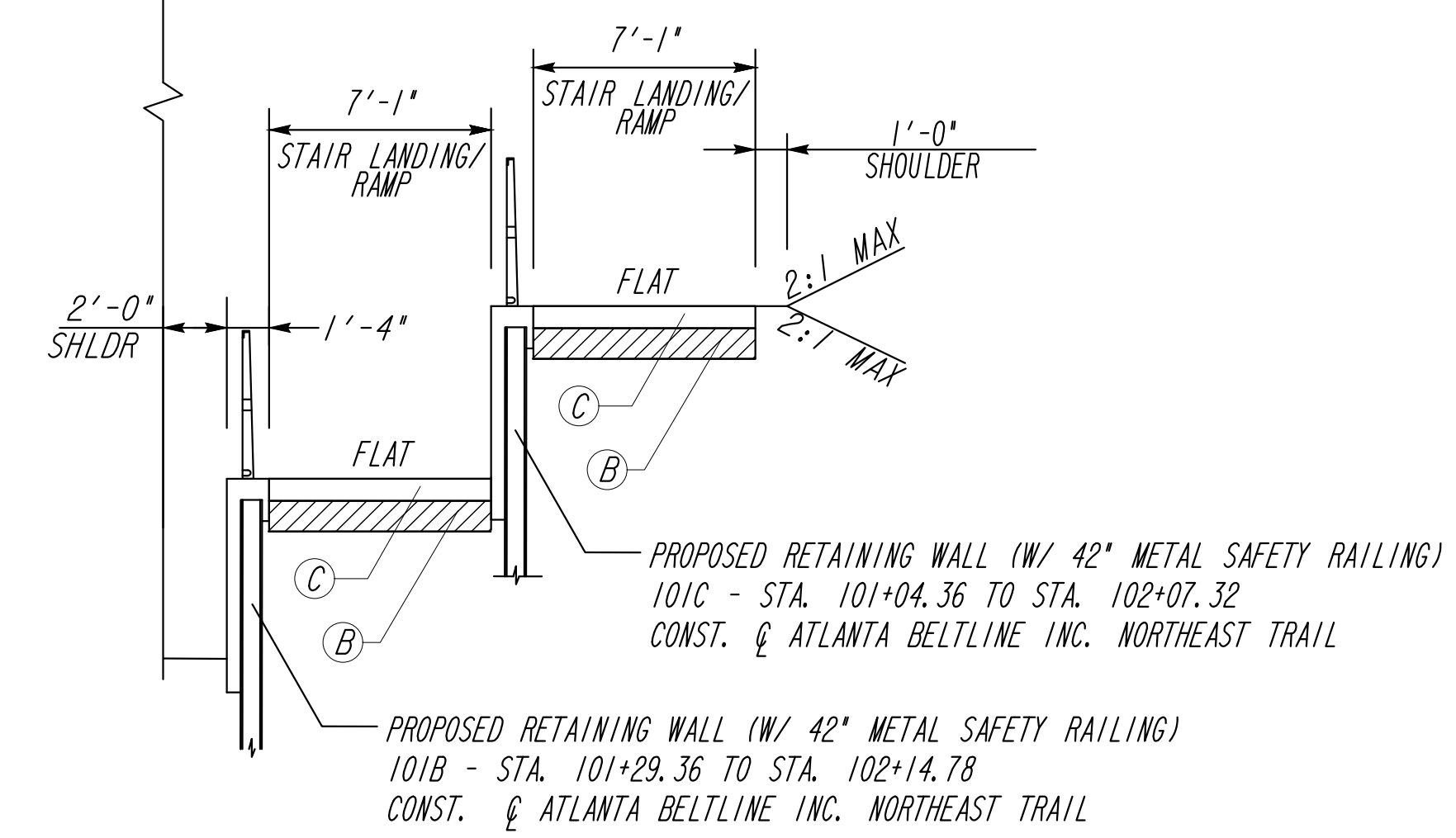
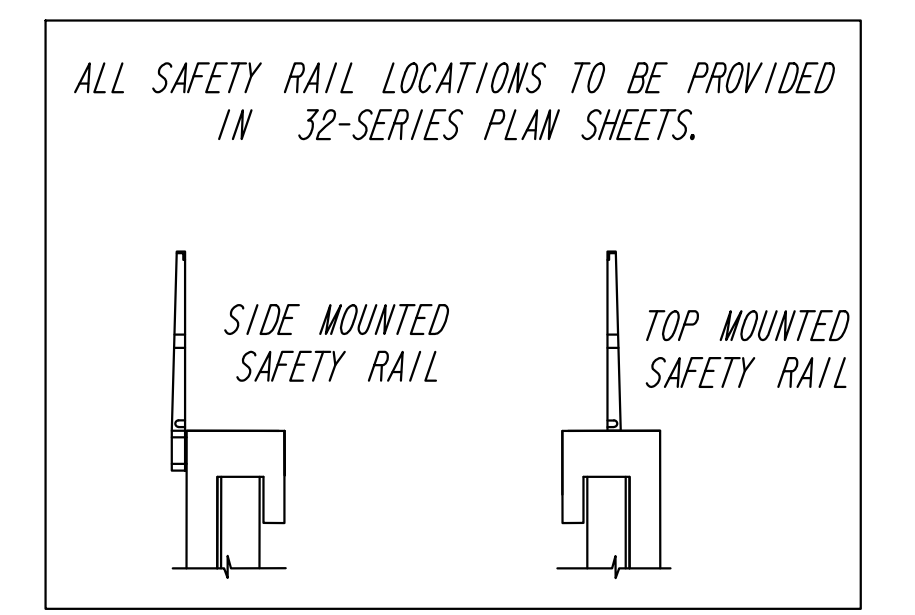
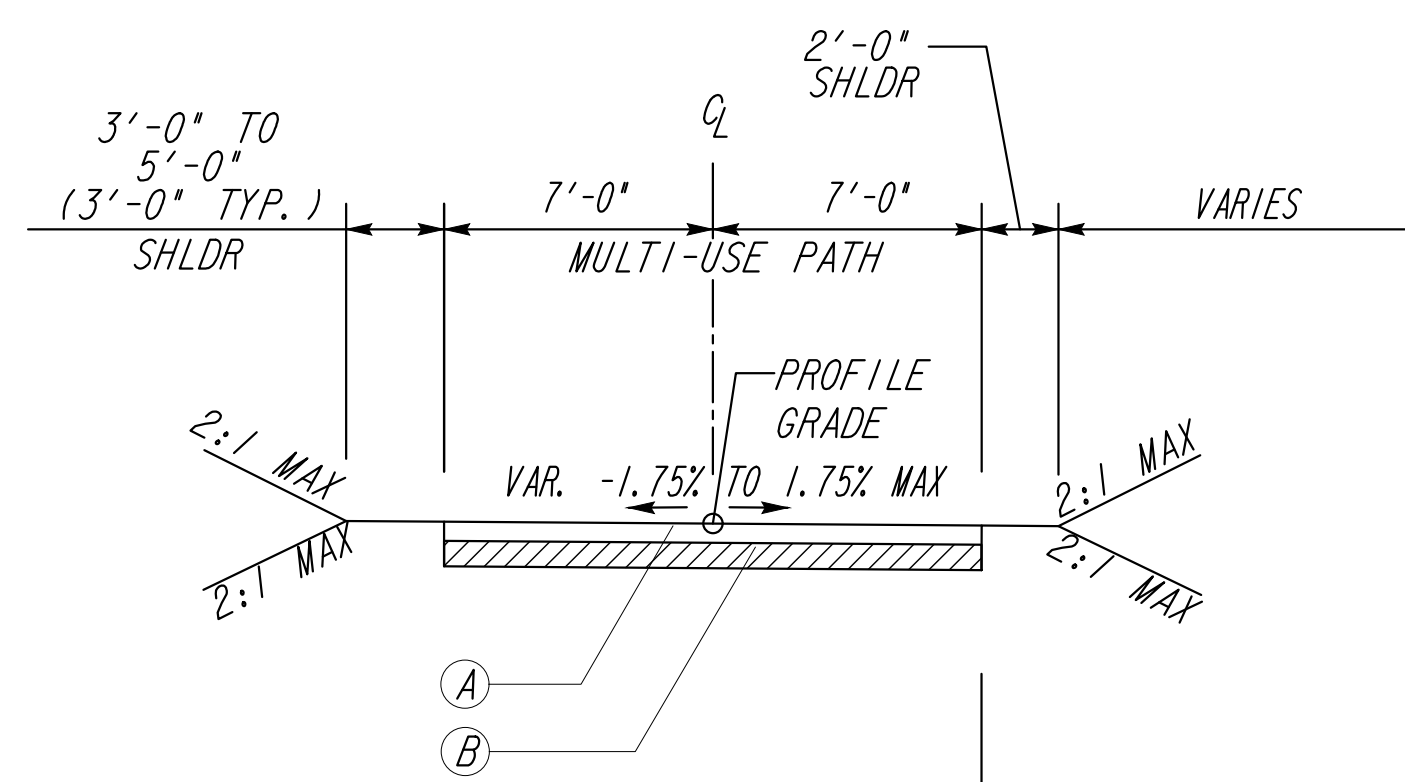
ATLANTA BELTLINE, INC.
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NOT TO SCALE

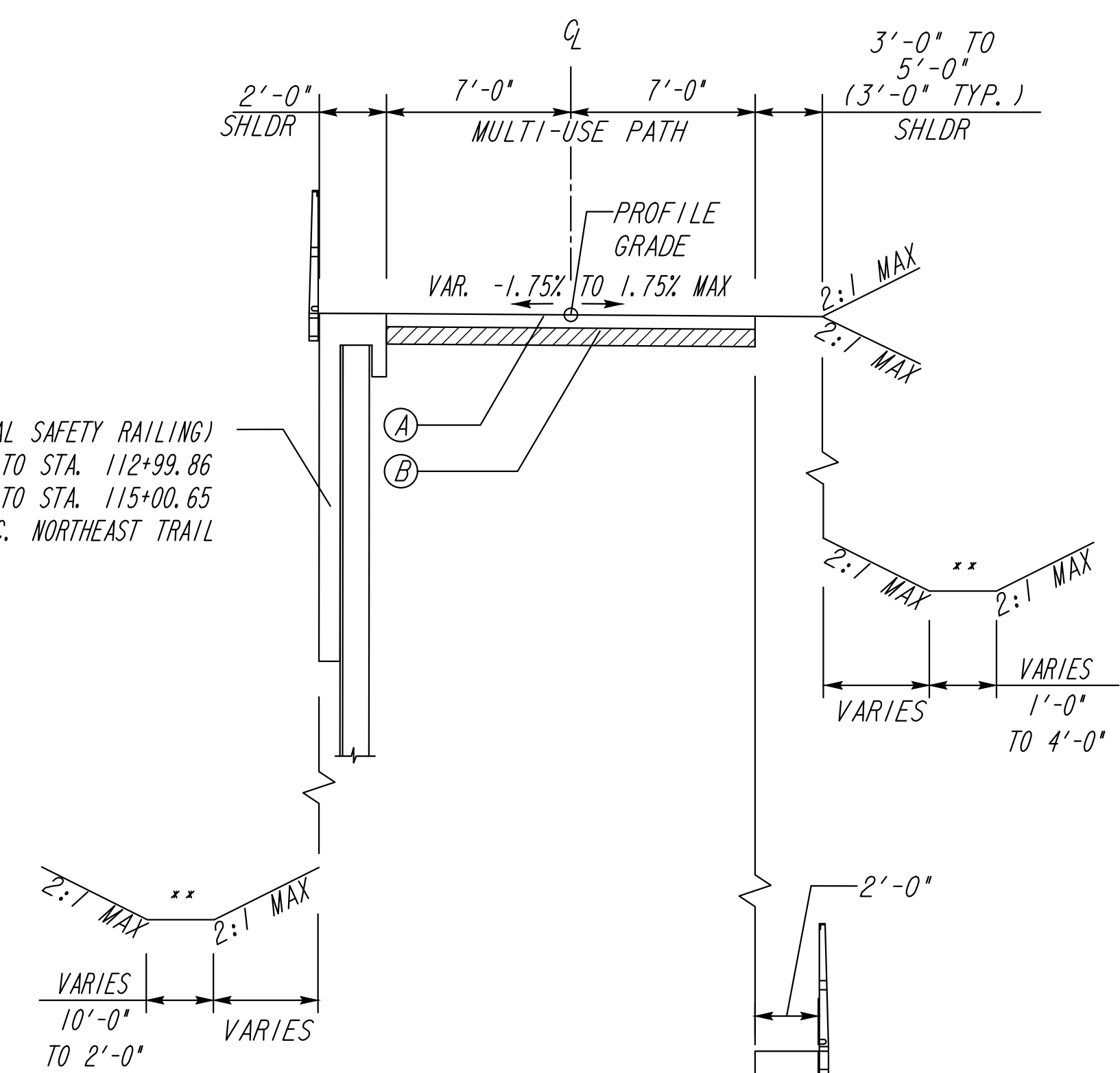
REVISION DATES		TYPICAL SECTIONS	
NO.	DATE	ATLANTA BELTLINE NORTHEAST TRAIL	
		CHECKED:	DATE:
		BACKCHECKED:	DATE:
		CORRECTED:	DATE:
		VERIFIED:	DATE:

DRAWING No. 05-001



TS-3
ATLANTA BELTLINE TRAIL - PIEDMONT AVE.
VERTICAL CONNECTION
STA. 100+84.73 TO STA. 102+60.34

PROPOSED RETAINING WALL (W/ 54" METAL SAFETY RAILING)
113A - STA. 112+77.36 TO STA. 112+99.86
114A - STA. 114+28.94 TO STA. 115+00.65
CONST. & ATLANTA BELTLINE INC. NORTHEAST TRAIL



TS-4
ATLANTA BELTLINE TRAIL
STA. 112+77.36 TO STA. 112+99.86
STA. 114+28.94 TO STA. 115+01.44

PROPOSED RETAINING WALL (W/ 54" METAL SAFETY RAILING)
113B - STA. 112+77.36 TO STA. 112+99.86
114B - STA. 114+28.94 TO STA. 115+01.44
CONST. & ATLANTA BELTLINE INC. NORTHEAST TRAIL

** SEE PLANS FOR DITCH/SWALE LOCATIONS

REQUIRED PAVEMENT

- (A) 6" CLASS "AA" CONCRETE, SPECIAL FINISH (SEE 38-SERIES SHEETS)
- (B) GR AGGR BASE CRS, 8 INCH, INCL MATL
- (C) 6" CLASS "AA" CONCRETE
- (D) 4" SIDEWALK (SEE 38-SERIES SHEETS)
- (E) 1.5" RECYCLED ASPH CONC 12.5 MM SUPERPAVE GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
- (F) MILL ASPH CONC 1.5 INCH DEPTH
- (G) CONC CURB & GUTTER, 8 IN X 24 IN, TP 2
- (H) EXISTING PAVEMENT TO REMAIN
- (I) EXISTING CURB AND GUTTER TO REMAIN
- (J) CONCRETE HEADER CURB, 8 IN X 6 IN, TP 2
- (K) EXISTING CONCRETE TRAIL TO REMAIN
- (L) GRANITE HEADER CURB, VARIABLE HEIGHT

ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

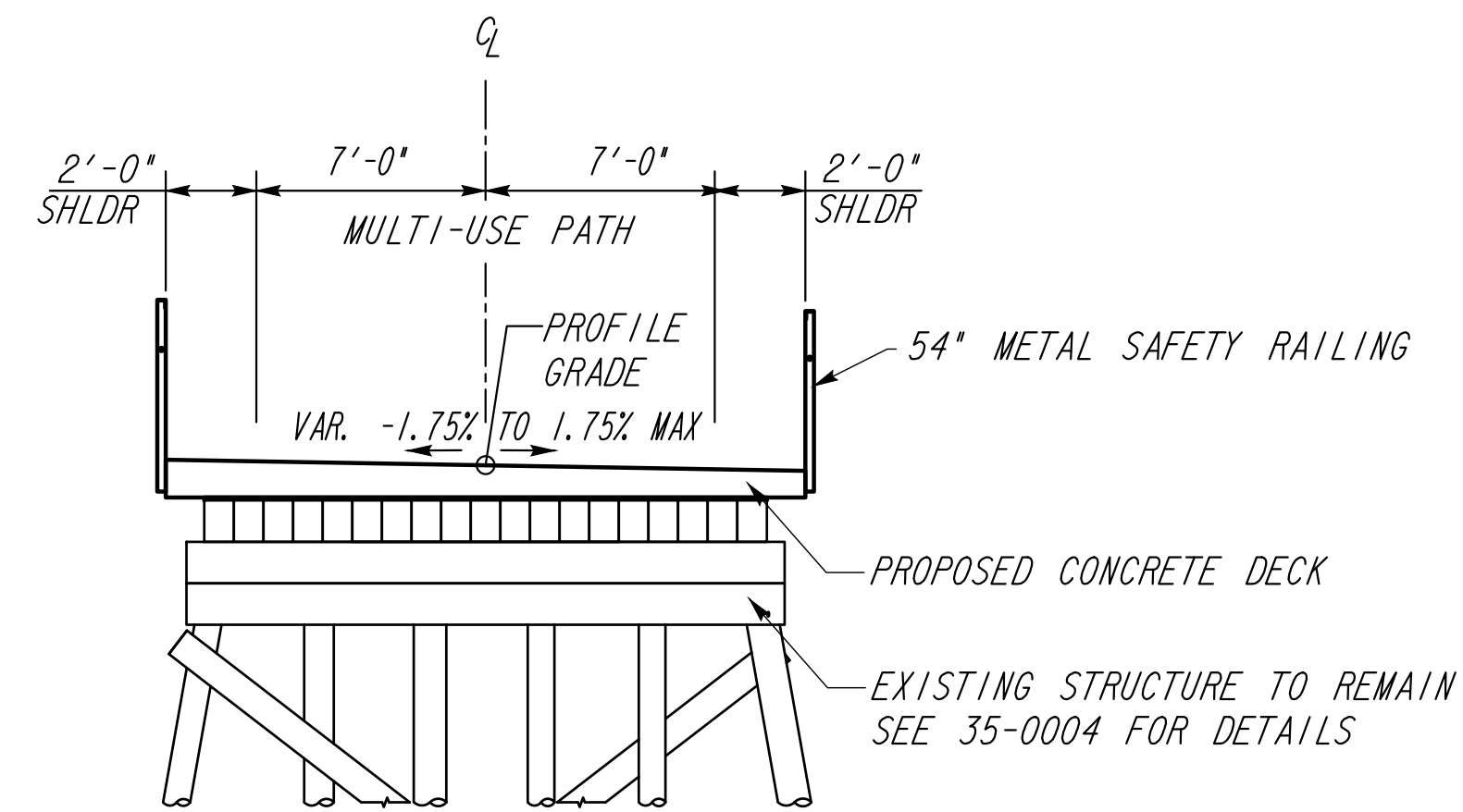
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

NOT TO SCALE

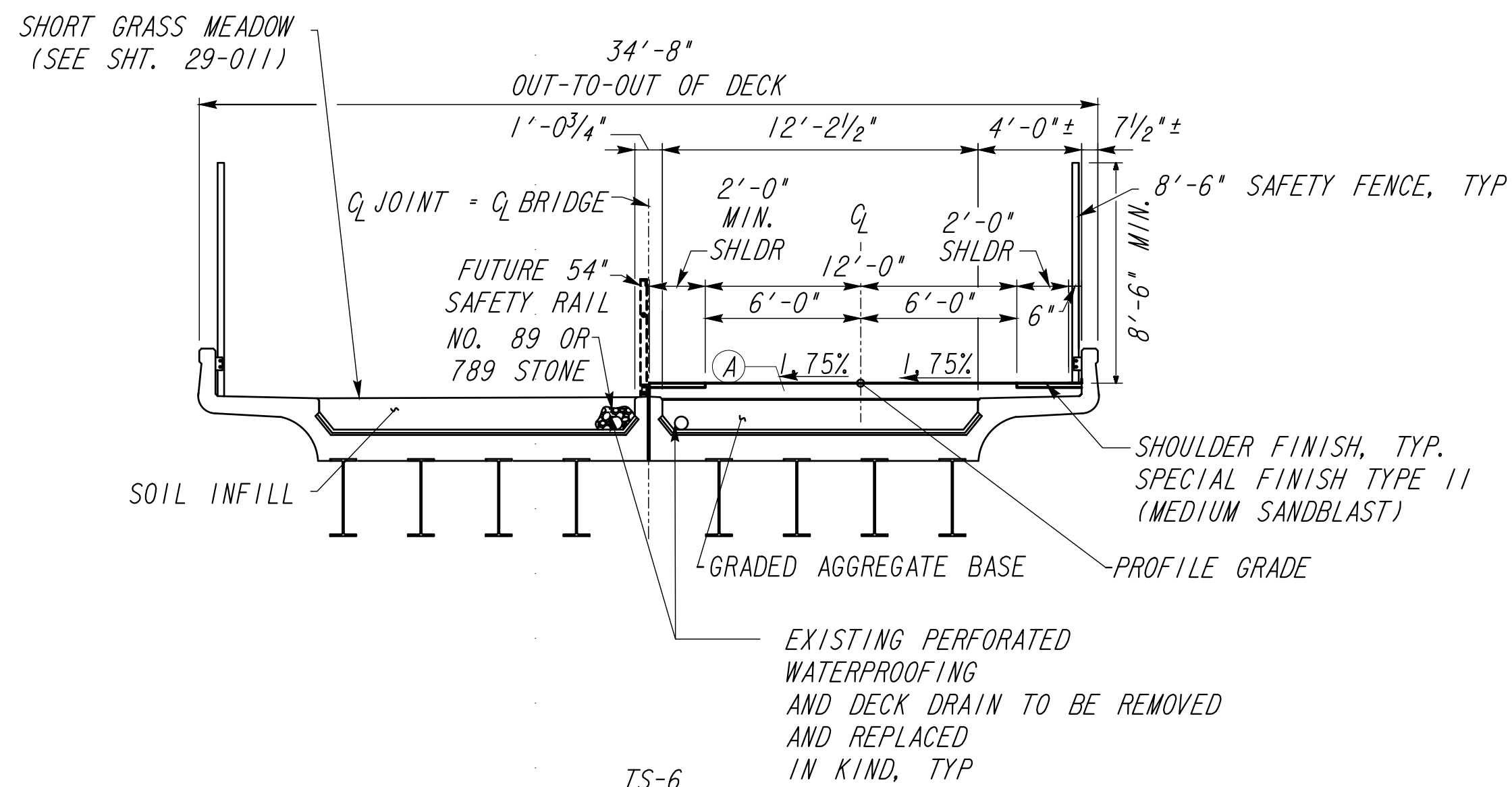
REVISION DATES	

TYPICAL SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

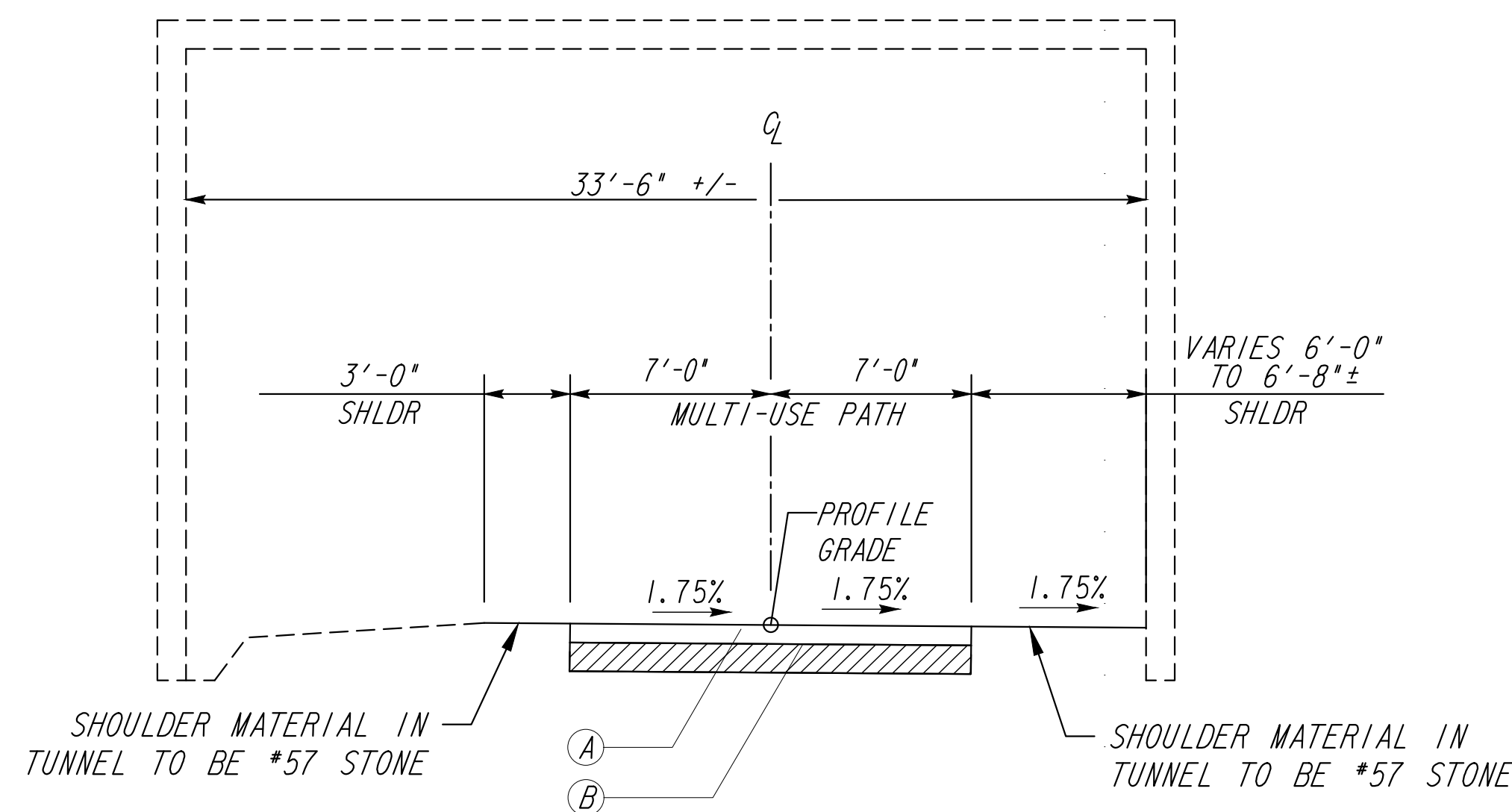
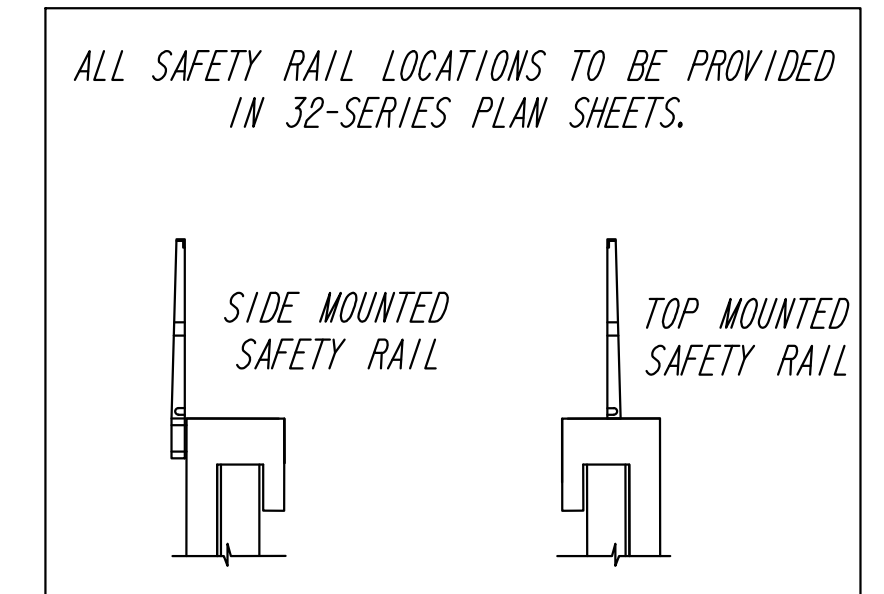
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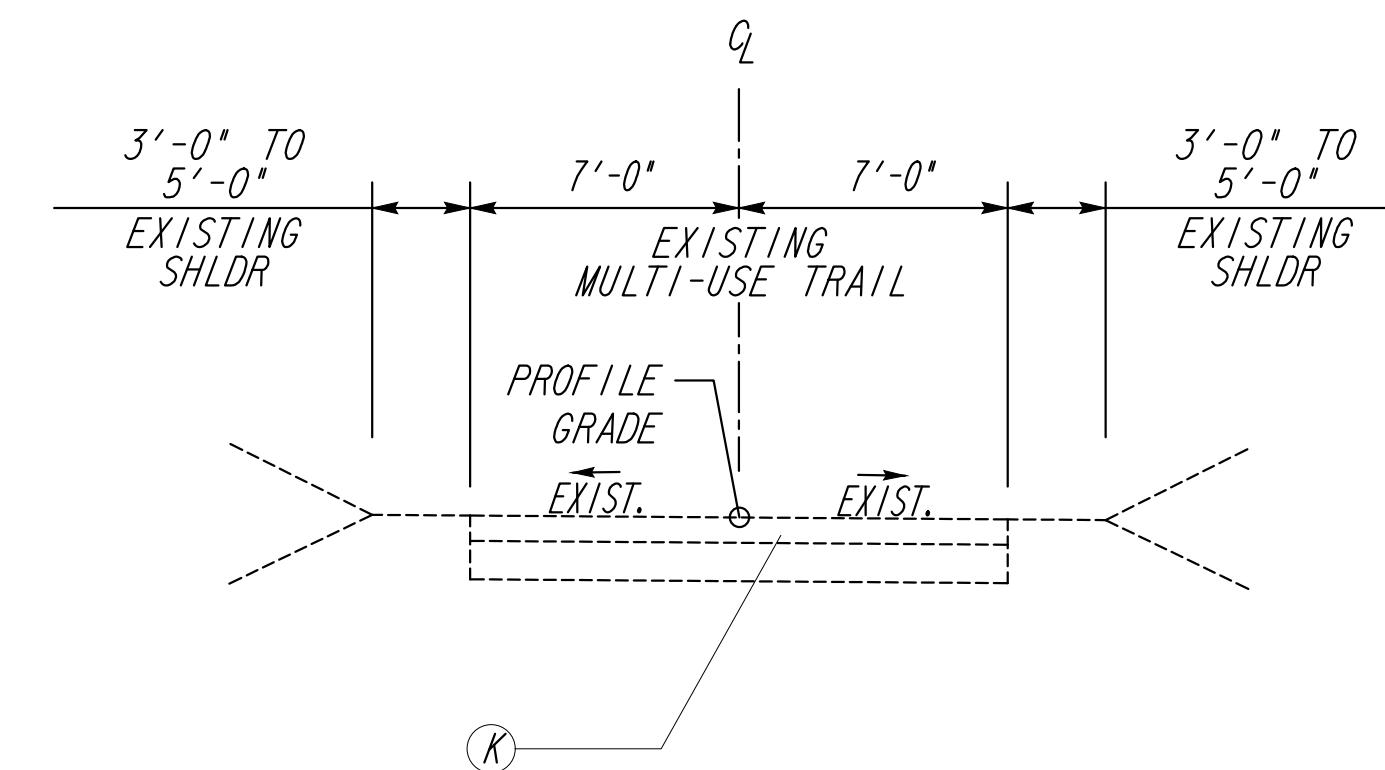
TS-5
ATLANTA BELTLINE TRAIL
CLEAR CREEK BRIDGE
STA. 112+99.86 TO STA. 114+28.94



TS-6
ATLANTA BELTLINE TRAIL
WYE BRIDGE
STA. 149+55.92 TO STA. 151+20.09



TS-7
ATLANTA BELTLINE TRAIL
I-85 TUNNEL
STA. 153+25.33 TO STA. 155+82.90



TS-8
ATLANTA BELTLINE TRAIL
STA. 118+00.00 TO STA. 147+90.62

** SEE PLANS FOR DITCH/SWALE LOCATIONS

REQUIRED PAVEMENT

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- Ⓑ GR AGGR BASE CRS, 8 INCH, INCL MATL
- Ⓒ 6" CLASS "AA" CONCRETE
- Ⓓ 4" SIDEWALK (SEE 38-SERIES SHEETS)
- Ⓔ 1.5" RECYCLED ASPH CONC 12.5 MM SUPERPAVE GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SY)
- Ⓕ MILL ASPH CONC 1.5 INCH DEPTH
- Ⓖ CONC CURB & GUTTER, 8 IN X 24 IN, TP 2
- Ⓗ EXISTING PAVEMENT TO REMAIN
- Ⓙ EXISTING CURB AND GUTTER TO REMAIN
- Ⓝ CONCRETE HEADER CURB, 8 IN X 6 IN, TP 2
- Ⓞ EXISTING CONCRETE TRAIL TO REMAIN
- Ⓟ GRANITE HEADER CURB, VARIABLE HEIGHT



NOT TO SCALE

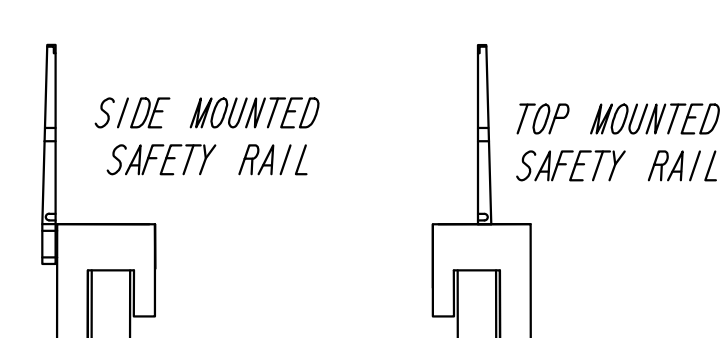
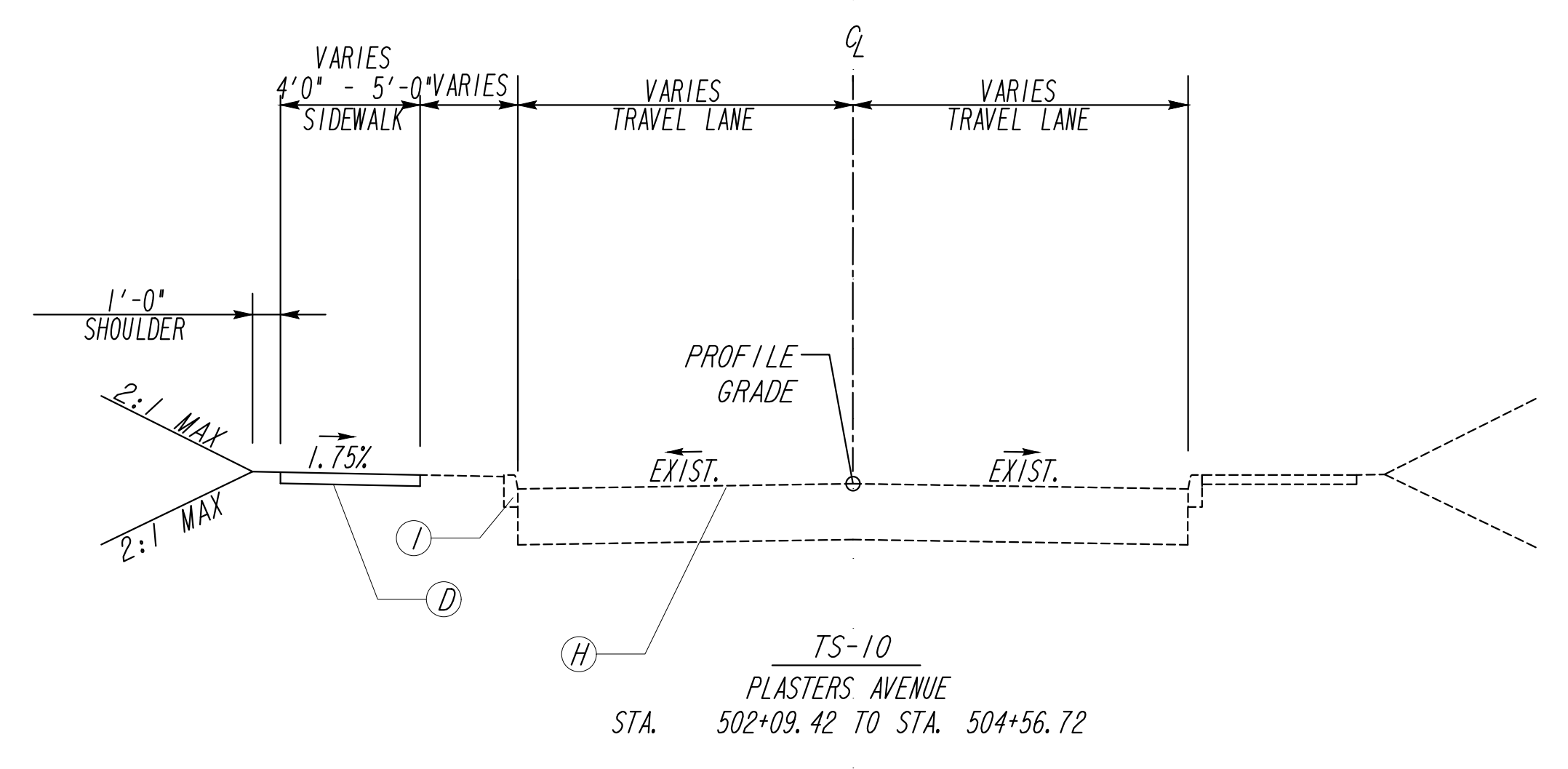
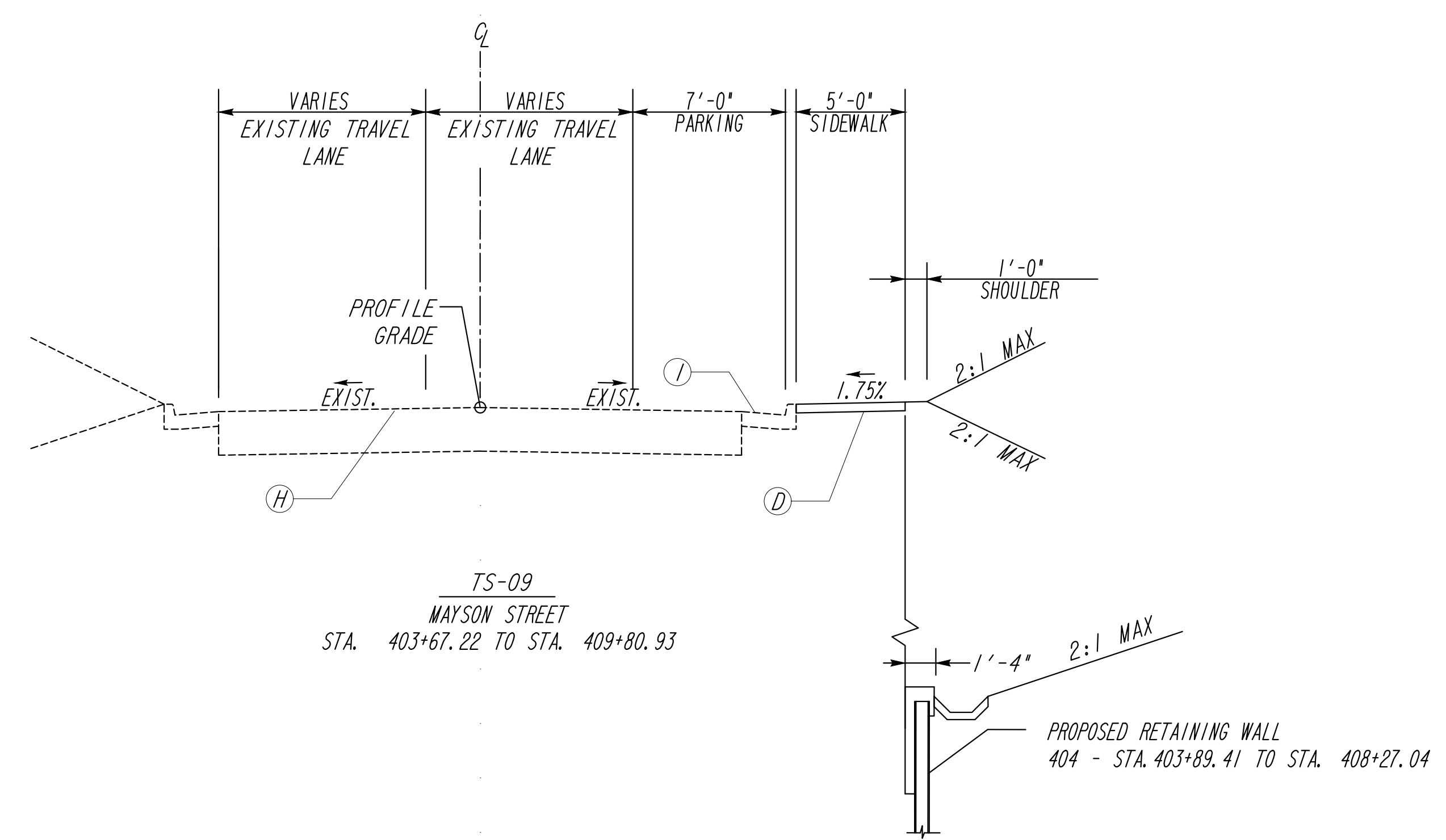
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-003
CORRECTED:	DATE:	
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ALL SAFETY RAIL LOCATIONS TO BE PROVIDED IN 32-SERIES PLAN SHEETS.

** SEE PLANS FOR DITCH/SWALE LOCATIONS

REQUIRED PAVEMENT

- Ⓐ 6" CLASS "AA" CONCRETE, SPECIAL FINISH (SEE 38-SERIES SHEETS)
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- Ⓢ CONCRETE HEADER CURB, 8 IN X 6 IN, TP 2
- Ⓚ EXISTING CONCRETE TRAIL TO REMAIN
- Ⓛ GRANITE HEADER CURB, VARIABLE HEIGHT

Atlanta BeltLine
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REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 05-004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

EROSION CONTROL

BARRIER FENCE (ORANGE), 4 FT, INSTALL/REMOVE		
TOTAL	13,059	LF
TEMPORARY SILT FENCE, TP C		
TOTAL	1,796	LF
MAINTENANCE OF SILT FENCE, TP C		
TOTAL	1,796	LF
TEMPORARY SILT FENCE, TP A		
TOTAL	11,686	LF
MAINTENANCE OF SILT FENCE, TP A		
TOTAL	11,686	LF
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP		
TOTAL	9	EA
MAINTENANCE OF INLET SEDIMENT TRAP		
TOTAL	9	EA

CONSTRUCTION EXIT		
	CONSTRUCT & REMOVE	MAINTENANCE
	EACH	EACH
TOTAL	3	3

RIP RAP LINED CHANNEL, TP 3		
TOTAL	226	SY

CHANNEL STABILIZATION (Ch-1) VEGETATIVE LINING		
TOTAL	0.5	AC

WATER QUALITY MONITORING AND SAMPLING		
TOTAL	2	EA

WATER QUALITY INSPECTIONS		
TOTAL	12	MO

PERMANENT GRASSING-Ds3			TEMPORARY GRASSING-Ds2		
TOTAL	12.15	AC	TOTAL	12.15	AC

CONSTRUCT & REMOVE STONE FILTER RING		
TOTAL	4	EA

MAINTENANCE OF STONE FILTER RING		
TOTAL	4	EA

MULCH-Ds1		
TOTAL	74	TN

CONSTRUCT & REMOVE TEMPORARY SEDIMENT TRAP (Sd4)		
TOTAL	1	EA

CHECK DAMS - ALL TYPES (Cd-S)		
TOTAL	23	EA

MAINTENANCE OF ALL TYPES OF CHECK DAMS		
TOTAL	23	EA

TURF REINFORCING MATTING, TP 3		
TOTAL	175	SY

SURFACING, EARTHWORK, AND TRAFFIC CONTROL

GRADING COMPLETE		
	LUMP SUM	

TRAFFIC CONTROL		
	LUMP SUM	

STRAIGHT GRANITE CURB VARIABLE HEIGHT X 17 IN, TP A		
TOTAL	101	LF

FIELD ENGINEERS OFFICE, TP3		
TOTAL	1	EA

GRANITE PAVERS		
TOTAL	653	SF

CONC SIDEWALK, 4 IN		
TOTAL	584	SY

CONC SIDEWALK, 8 IN		
TOTAL	91	SY

CLASS A CONCRETE, INCL. REINF. STEEL		
TOTAL	16	CY

SHORING		
TOTAL	6,000	SF

SURFACING QUANTITIES		
ITEMS	UNIT	TOTALS
CONCRETE TRAIL PAVING, STANDARD FINISH, 6 INCH	SY	210
CONCRETE TRAIL PAVING, SPECIAL FINISH, 6 INCH	SY	5090
GR AGGR BASE CRS, 8 INCH INCL MATL	TN	2334

PREPARED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PREPARED BY: [Name]
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 DATE: [Date]



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REVISION DATES		SUMMARY QUANTITIES	
NO.	DATE	ATLANTA BELTLINE NORTHEAST TRAIL	
		CHECKED:	DATE:
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		VERIFIED:	DATE:
		DRAWING No.	
		06-001	

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES – WALL NO. 100B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	18	LF	42" METAL SAFETY RAIL
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 100B
999-9000	125	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 100D

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	95	CY	CLASS A CONCRETE, RETAIN WALL
501-3000	377	LB	STR STEEL
511-1000	6187	LB	BAR REINF STEEL
999-9000	375	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 101B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3800	8	CY	CLASS A CONCRETE, INCL REINF STEEL
501-3000	250	LB	STR STEEL
515-2105	103	LF	42" METAL SAFETY RAIL
627-1000	565	SF	MSE WALL FACE, 0-10 FT HT, WALL NO – 101B
999-9000	670	SF	GRANITE FACING

CONSTRUCTION VIBRATION MONITORING

TOTAL	LUMP
-------	------

SUMMARY OF QUANTITIES – WALL NO. 101C

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3800	8	CY	CLASS A CONCRETE, INCL REINF STEEL
501-3000	235	LB	STR STEEL
515-2105	105	LF	42" METAL SAFETY RAIL
627-1000	396	SF	MSE WALL FACE, 0-10 FT HT, WALL NO – 101C
627-1010	472	SF	MSE WALL FACE, 10-20 FT HT, WALL NO – 101C
999-9000	973	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 101D

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	9	LF	42" METAL SAFETY RAIL
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 101D
999-9000	60	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 113A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.3	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 113A
999-9000	181	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 113B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.3	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 113B
999-9000	178	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 114A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.9	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 114A
999-9000	580	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 114B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.9	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 114B
999-9000	570	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 404

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
441-0204	141	SY	PLAIN CONC. DITCH PAVING, 4 IN
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 404

NORTH WYE BRIDGE SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO-2 (76)
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-2 (12,472)
515-XXXX	329	LF	10'-0" METAL SAFETY RAIL
521-3000	150	SF	PATCHING CONCRETE BRIDGE
528-0501	100	LF	EPOXY PRESSURE INJECTION OF CONCRETE CRACKS
533-0010	477	SY	BRIDGE DECK WATERPROOFING MEMBRANE, METHOD A
535-1005	LUMP	LS	PAINT EXIST STEEL STRUCTURE, BR ID - 121-0488-0
540-1202	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO-2
544-1000	LUMP	LS	DECK DRAIN SYSTEM, BR NO-2

CLEAR CREEK BRIDGE SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO-1 (93)
500-3101	21	CY	CLASS A CONCRETE
502-1200	5	MBM	BRIDGE TIMBER, TREATED
511-1000	3040	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-1 (15,650)
540-1202	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO-1
603-2182	160	SY	STN DUMPED RIP RAP, TP 3, 24 IN
603-7000	160	SY	PLASTIC FILTER FABRIC
999-7520	LUMP	LS	HELICAL PILE FOUNDATION

REVISION DATES

REVISION DATES



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REVISION DATES

NO.	DATE	DESCRIPTION

SUMMARY QUANTITIES ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-002
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VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

DRAINAGE

Structure	Location	Storm Drain Pipe																Drop Inlets						Manholes						Outlet Control Structures		Flared End Sections								
		H 1-10				H 10-15				H 15-20				GA. STD. 9031S GP 1	GA. STD. 1019AP GP 1 - TYPE A	GA. STD. 1019AP GP 1 - TYPE A	GA. STD. 1019AP GP 1 - TYPE C	GA. STD. D-33 - TYPE V	GA. STD. 1011AP TP 1			GA. STD. 1011AP TP 2			Pipe Collar, GA. STD. 9031U	GA. STD. 1120			Strn Dumped Rip-Rap Type 3, 18 inch	Plastic Filter Fabric										
		12" (LF)	15" (LF)	18" (LF)	24" (LF)	30" (LF)	18" (LF)	24" (LF)	30" (LF)	36" (LF)	60" (LF)	72" (LF)	18" (LF)	36" (LF)	60" (LF)	72" (LF)	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	EA	EA	EA	EA	EA	SY	SY				
A-3	96+46.64, 40.77 RT			168																		1	1																	
A-4	98+11.24, 25.95 RT																		1	4																				
B-5	112+29.69, 46.72LT				35																						1													
B-6	112+65.32, 43.40 L																																		1	31	31			
J-4	152+80.31, 24.02 R			40														1																		1	21	21		
J-3	153+15.47, 4.62RT			300																		1																		
J-2	156+14.90, 6.17 LT			74																		1																		
J-1	156+80.04, 24.18 LT																						1																	
J-5	156+40.88, 16.97 R			67																1																				
J-6	156+95.33, 22.38 LT																																							
J-7	157+25.34, 53.65 LT																																							
12 IN PVC	103+96.84, 15.99 LT																																							
4' Ditch	108+41.32, 31.38 RT																																							
As Directed:		0	0	65	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Totals:		0	0	714	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	2	1	108	108

TRENCH DRAIN, 8 IN	
SUBTOTAL	273 LF
AS DIRECTED	28 LF
TOTAL	301 LF

PVC PIPE, 6 IN	
SUBTOTAL	23 LF
AS DIRECTED	3 LF
TOTAL	26 LF

NOTE: COST OF PVC PIPE TO BE INCLUDED IN UNIT PRICE FOR TRAIL PAVING.

PVC PIPE, 12 IN, RAMP DRAINAGE	
SUBTOTAL	290 LF
AS DIRECTED	29 LF
TOTAL	319 LF

NOTE: COST OF PVC PIPE TO BE INCLUDED IN UNIT PRICE FOR TRAIL PAVING.

YARD INLET	
TOTAL	3 EA

DETENTION POND, 'BI'	
TOTAL	335 CY

NOTE: COST OF UNDERDRAIN TO BE INCLUDED IN UNIT PRICE FOR DETENTION POND 'BI'

DETENTION POND, 'JI'	
TOTAL	157 CY

INFILTRATION TRENCH	
TOTAL	2 EA

CLASS AAI CONC. INCL. REINF. MATL. (DRAINAGE WEIR STRUCTURES)	
TOTAL	7 CY

REVISION DATES

SUMMARY QUANTITIES ATLANTA BELTLINE NORTHEAST TRAIL

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06-003



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NOT TO SCALE

SUMMARY OF QUANTITIES

LIGHTING

CLASS "A" CONCRETE		
TOTAL	30	CY
BAR REINFORCED STEEL		
TOTAL	3,335	LB
LUMINAIRE-TYPE "FA"		
TOTAL	62	EA
LUMINAIRE-TYPE "FB"		
TOTAL	5	EA
LUMINAIRE-TYPE "FC"		
TOTAL	8	EA
LUMINAIRE-TYPE "FE"		
TOTAL	6	EA
HANDHOLE		
TOTAL	17	EA
CABLE, TP XHHW, AWG #10		
TOTAL	52,070	LF
CABLE, TP XHHW, AWG #8		
TOTAL	600	LF
CABLE, TP XHHW, AWG #4		
TOTAL	2,300	LF
CONDUIT, RIGID, 1 INCH		
TOTAL	120	LF
CONDUIT, NON-METAL, TP 2, 1 INCH		
TOTAL	5,640	LF
CONDUIT, NON-METAL, TP 2, 2 INCH		
TOTAL	2,100	LF
OUTSIDE PLANT FIBER OPTIC CABLE, SINGLE MODE, 6 FIBER		
TOTAL	1,400	LF
OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 144 FIBER		
TOTAL	6,500	LF
POWER SERVICE CABINET		
TOTAL	3	EA
SECURITY CAMERA		
TOTAL	9	EA
LIGHTING STD. STEEL 15 FEET MH + GROUND ROD & CABLE		
TOTAL	75	EA
MDF CABINET FOR FIBER TERMINATIONS		
TOTAL	1	EA

DUCT BANK/UTILITIES

CONDUIT, NON-METAL TYP 2, 4"		
TOTAL	6,620	LF
ELECTRICAL JUNCTION BOX, CONC. GROUND MOUNTED		
TOTAL	4	EA
FLOWABLE FILL		
TOTAL	110	CY
ADJUST MINOR STRUCTURES TO GRADE		
TOTAL	14	EA

MISC. ITEMS

BOLLARDS		
TOTAL	7	EA
ECO COUNTER		
TOTAL	2	EA
SOLAR LED LIGHTS		
TOTAL	10	EA
TRASH RECEPTACLES		
TOTAL	4	EA
CLASS A CONC. (ART FOUNDATIONS)		
TOTAL	5	CY
BAR REINF. STEEL (ART FOUNDATIONS)		
TOTAL	289	LB
NOTE: ART PAD LOCATIONS TO BE DETERMINED BY OWNERS		
HAND RAIL SPECIAL DESIGN - NON LIGHTED		
TOTAL	355	LF
CHAIN LINK FENCE, PVC, 6FT, 11 GA		
TOTAL	500	LF
DECOMPOSED GRANITE		
TOTAL	125	SF
ALUMINUM EDGING		
TOTAL	50	LF

PREPARED BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]



NOT TO SCALE

REVISION DATES		SUMMARY QUANTITIES	
		ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	CHECKED:	DATE:
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CORRECTED:	DATE:	VERIFIED:	DATE:
		DRAWING No.	
		06-004	

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES - STANDARD SIGNS

STATION	INSTL. NO.	SIGN CODE	TP 1 MATL, REFL SHEETING TP 9			TP 1 MATL, REFL SHEETING TP 11			RESET HWY SIGN QUANTITY	POST TYPE 7			POST TYPE 8		
			SIZE	QUANTITY	SQUARE FEET	SIZE	QUANTITY	SQUARE FEET		LENGTH (FEET)	QUANTITY	TOTAL LENGTH	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
			Westminster												
94+85 L		W11-2	36X36	1	9								15	1	15
		W16-9P	24X12	1	2										
95+08 L		W11-2	36X36	1	9										
		W16-7P	24X12	1	2								15	1	15
95+43 R		W11-2	36X36	1	9										
		W16-7P	24X12	1	2								15	1	15
95+44 R		R1-5B	36X36	1	9								14	1	14
95+07 L		R1-5B	36X36	1	9								14	1	14
Plasters															
409+58 R		R1-1				30X30	1	6.25			12.5	1	12.5		
		W11-2	36X36	1	9								15	1	15
		W16-7P	24X12	1	2										
501+05 RT		W11-2	36X36	1	9								15	1	15
		W16-9P	24X12	1	2										
501+78L		R1-1				30X30	1	6.25			12.5	1	12.5		
		W11-2	36X36	1	9								15	1	15
		W16-7P	24X12	1	2										
503+18 L		W11-2	36X36	1	9								15	1	15
		W16-9P	24X12	1	2										
504+07		R1-1				30X30	1	6.25			12.5	1	12.5		
AS DIRECTED															
TOTAL							105		21	0			42		147

SUMMARY OF PAVEMENT MARKING QUANTITIES

<i>TRAFFIC STRIPE</i>				
<i>DESCRIPTION</i>	<i>UNIT</i>			
		<i>SUBTOTAL</i>	<i>AS DIRECTED</i>	<i>TOTAL</i>
<i>THERMOPLASTIC TRAF STRIPE, 8 IN. WHITE</i>	<i>LF</i>	<i>625</i>	<i>63</i>	<i>688</i>
<i>THERMOPLASTIC TRAF STRIPE, 24 IN. WHITE</i>	<i>LF</i>	<i>62</i>	<i>7</i>	<i>69</i>

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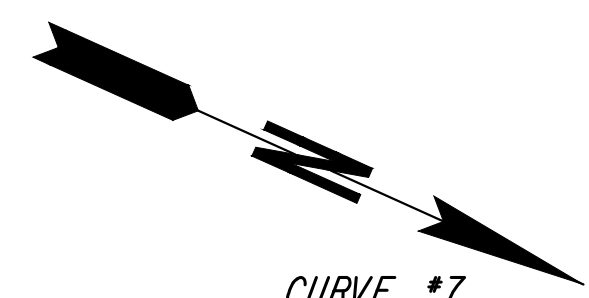


NOT TO SCALE

REVISION DATES

SUMMARY QUANTITIES ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



- CURVE *1**
PI Sta = 97+84.13
N = 1380356.67
E = 2234672.19
DELTA = 10° 35' 14"
D = 6° 21' 58.31"
T = 83.39
L = 166.30
R = 900.00
E = 3.85
- CURVE *2**
PI Sta = 101+63.25
N = 1380705.70
E = 2234522.98
DELTA = 4° 38' 33"
D = 3° 10' 59.16"
T = 72.97
L = 145.85
R = 1800.00
E = 1.48
- CURVE *3**
PI Sta = 107+65.77
N = 1381238.80
E = 2234242.04
DELTA = 4° 55' 40"
D = 5° 43' 46.48"
T = 43.03
L = 86.01
R = 1000.00
E = 0.93
- CURVE *4**
PI Sta = 109+58.57
N = 1381401.06
E = 2234137.80
DELTA = 14° 35' 23"
D = 8° 11' 06.40"
T = 89.61
L = 178.25
R = 700.00
E = 5.71
- CURVE *5**
PI Sta = 111+76.83
N = 1381609.41
E = 2234069.59
DELTA = 7° 10' 25"
D = 5° 43' 46.48"
T = 62.68
L = 125.20
R = 1000.00
E = 1.96
- CURVE *6**
PI Sta = 115+21.68
N = 1381921.32
E = 2233922.15
DELTA = 19° 36' 19"
D = 22° 55' 05.92"
T = 43.19
L = 85.54
R = 250.00
E = 3.70
- CURVE *7**
PI Sta = 116+85.62
N = 1382085.30
E = 2233905.79
DELTA = 19° 42' 52"
D = 28° 38' 52.40"
T = 34.75
L = 68.82
R = 200.00
E = 3.00

- CURVE *1A**
PI Sta = 96+09.32
N = 1380184.11
E = 2234679.44
DELTA = 31° 11' 05"
D = 47° 44' 47.34"
T = 33.49
L = 65.31
R = 120.00
E = 4.58
- CURVE *1B**
PI Sta = 96+71.57
N = 1380245.57
E = 2234696.94
DELTA = 28° 27' 13"
D = 47° 44' 47.34"
T = 30.42
L = 59.59
R = 120.00
E = 3.80

BEGIN PROJECT
BEGIN CONSTRUCTION
STA: 95+00.00
N: 1380078.6524
E: 2234708.2712

BEGIN CONCRETE TRAIL
STA: 95+42.30
N23°08'48.2"W

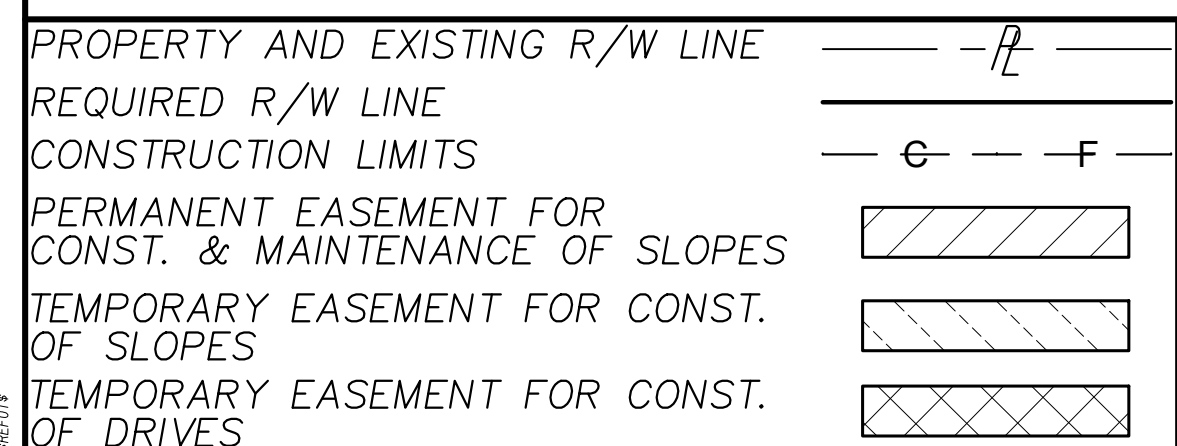
BEGIN BRIDGE 1
STA. 112+99.86

ATLANTA BELTLINE INC. NORTHEAST TRAIL
PIEDMONT AVENUE CONNECTION NORTH
SEE 18-SERIES SHEETS FOR DETAILS
STA. 100+58.51 ATLANTA BELTLINE NORTHEAST TRAIL =
STA. 204+96.76 PIEDMONT AVENUE NE
N: 1380609.3959
E: 2234564.1520

CURVE *7
D-18
N5°41'43.7"W
PT 115+64.03
PC 116+50.87
END BRIDGE 1
STA. 114+28.94
END CONCRETE TRAIL
BEGIN EXISTING TRAIL
STA. 118+00

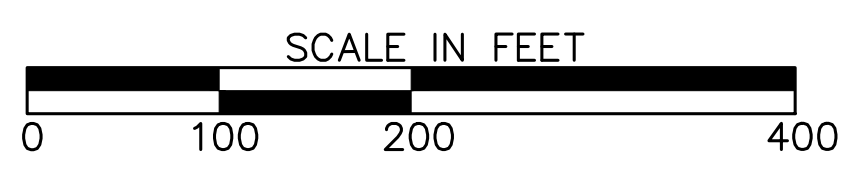
CURVE *PI
PI Sta = 204+68.24
N = 1380587.54
E = 2234545.81
DELTA = 0° 15' 18"
D = 0° 03' 26.26"
T = 222.60
L = 445.21
R = 100000.00
E = 0.25

PT*	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
D-13	1380079.204	2234724.424	843.23	95+01.95	9.35 LT	RBC OTHERS
D-14	1380478.240	2234601.437	839.20	99+23.26	17.27 LT	RBC OTHERS
D-15	1380858.307	2234430.558	836.65	103+41.27	10.62 LT	60D NAIL OTHERS
D-16	1381233.394	2234240.773	835.42	107+61.70	2.88 LT	60D NAIL OTHERS
D-17	1381597.917	2234081.386	836.45	111+61.84	8.78 RT	60D NAIL OTHERS
D-18	1381960.680	2233897.144	837.12	115+62.60	20.98 LT	60D NAIL OTHERS



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ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES

CONSTRUCTION LAYOUT
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CURVE *8
 PI Sta = 119+85.50
 N = 1382356.79
 E = 2233776.82
 DELTA = 12° 07' 03"
 D = 11° 27' 32.96"
 T = 53.07
 L = 105.75
 R = 500.00
 E = 2.81

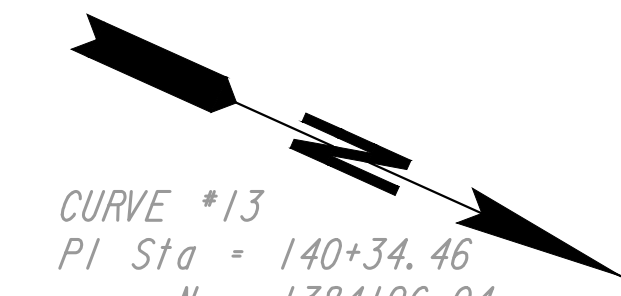
CURVE *9
 PI Sta = 121+70.94
 N = 1382504.17
 E = 2233663.62
 DELTA = 12° 07' 03"
 D = 11° 27' 32.96"
 T = 53.07
 L = 105.75
 R = 500.00
 E = 2.81

CURVE *10
 PI Sta = 125+12.98
 N = 1382813.48
 E = 2233516.69
 DELTA = 19° 41' 32"
 D = 23° 52' 23.67"
 T = 41.65
 L = 82.49
 R = 240.00
 E = 3.59

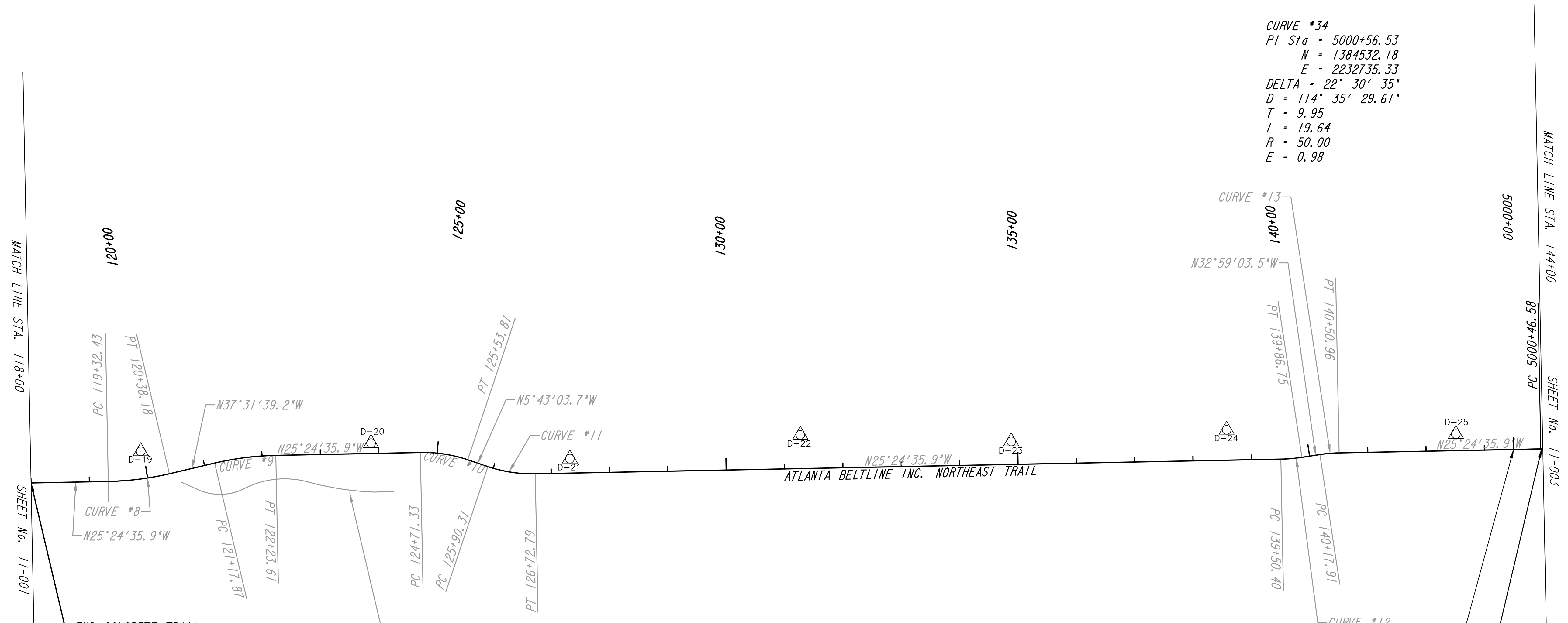
CURVE *11
 PI Sta = 126+31.96
 N = 1382932.68
 E = 2233504.75
 DELTA = 19° 41' 32"
 D = 23° 52' 23.67"
 T = 41.65
 L = 82.49
 R = 240.00
 E = 3.59

CURVE *12
 PI Sta = 139+68.60
 N = 1384140.76
 E = 2232930.85
 DELTA = 7° 34' 28"
 D = 20° 50' 05.38"
 T = 18.20
 L = 36.35
 R = 275.00
 E = 0.60

CURVE *13
 PI Sta = 140+34.46
 N = 1384196.04
 E = 2232894.98
 DELTA = 7° 34' 28"
 D = 22° 55' 05.92"
 T = 16.55
 L = 33.05
 R = 250.00
 E = 0.55



CURVE *34
 PI Sta = 5000+56.53
 N = 1384532.18
 E = 2232735.33
 DELTA = 22° 30' 35"
 D = 114° 35' 29.61"
 T = 9.95
 L = 19.64
 R = 50.00
 E = 0.98



PT*	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
D-19	1382338.423	2233729.710	838.33	119+95.16	46.87 LT	60D NAIL OTHERS
D-20	1382692.294	2233554.658	840.18	123+87.23	17.70 LT	60D NAIL OTHERS
D-21	1383013.735	2233438.855	838.84	127+32.62	24.74 LT	RBC OTHERS
D-22	1383356.858	2233239.253	841.35	131+28.20	57.80 LT	RBC OTHERS
D-23	1383690.827	2233101.034	841.27	134+89.17	39.35 LT	RBC OTHERS
D-24	1384019.109	2232931.043	841.62	138+58.64	52.03 LT	RBC OTHERS
D-25	1384380.036	2232776.218	842.81	142+51.56	28.32 LT	60D NAIL OTHERS

STA. 143+50.00 ATLANTA BELTLINE NORTHEAST TRAIL =
 STA. 5000+00.00 ABI NORTHEAST AS-BUILT
 N: 1384481.1073
 E: 2232759.5568

PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

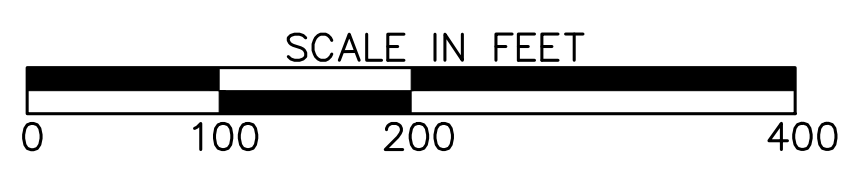
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF DRIVES

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REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION LAYOUT
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CURVE *14
 PI Sta = 146+48.16
 N = 1384750.43
 E = 2232631.62
 DELTA = 17° 41' 37"
 D = 7° 47' 43.24"
 T = 114.40
 L = 226.98
 R = 735.00
 E = 8.85

CURVE *15
 PI Sta = 148+21.69
 N = 1384924.19
 E = 2232608.07
 DELTA = 19° 35' 10"
 D = 31° 49' 51.56"
 T = 31.07
 L = 61.53
 R = 180.00
 E = 2.66

CURVE *16
 PI Sta = 148+95.48
 N = 1384990.30
 E = 2232573.95
 DELTA = 19° 15' 52"
 D = 31° 49' 51.56"
 T = 30.55
 L = 60.52
 R = 180.00
 E = 2.57

CURVE *17
 PI Sta = 150+23.00
 N = 1385117.13
 E = 2232556.04
 DELTA = 0° 56' 53"
 D = 0° 49' 06.64"
 T = 57.91
 L = 115.83
 R = 7000.00
 E = 0.24

CURVE *18
 PI Sta = 151+59.99
 N = 1385253.08
 E = 2232539.13
 DELTA = 4° 12' 12"
 D = 11° 27' 32.96"
 T = 18.35
 L = 36.68
 R = 500.00
 E = 0.34

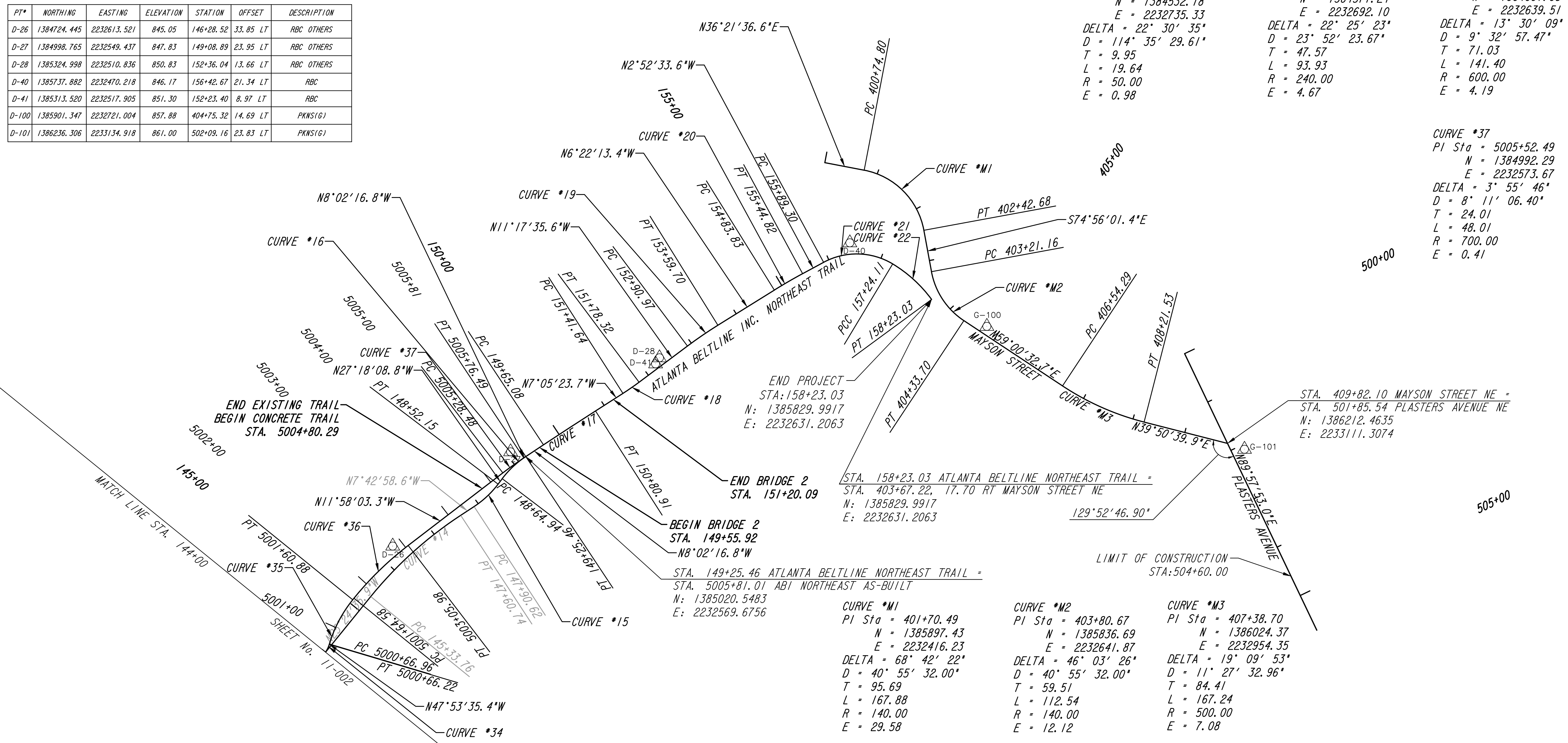
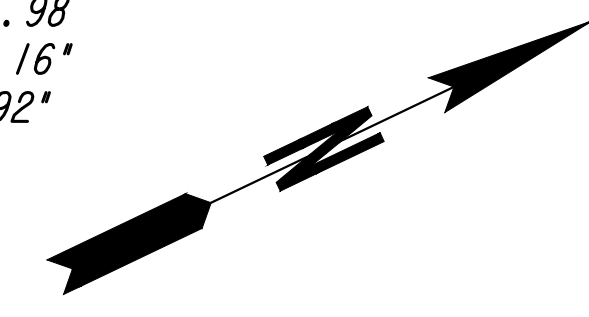
CURVE *19
 PI Sta = 153+25.36
 N = 1385415.26
 E = 2232506.74
 DELTA = 4° 55' 22"
 D = 7° 09' 43.10"
 T = 34.39
 L = 68.74
 R = 800.00
 E = 0.74

CURVE *20
 PI Sta = 155+14.34
 N = 1385603.11
 E = 2232485.77
 DELTA = 3° 29' 40"
 D = 5° 43' 46.48"
 T = 30.50
 L = 60.99
 R = 1000.00
 E = 0.47

CURVE *21
 PI Sta = 156+63.47
 N = 1385752.08
 E = 2232478.28
 DELTA = 59° 24' 57"
 D = 44° 04' 25.24"
 T = 74.17
 L = 134.81
 R = 130.00
 E = 19.67

CURVE *22
 PI Sta = 157+74.23
 N = 1385820.61
 E = 2232581.98
 DELTA = 22° 40' 16"
 D = 22° 55' 05.92"
 T = 50.12
 L = 98.92
 R = 250.00
 E = 4.97

PT*	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
D-26	1384724.445	2232613.521	845.05	146+28.52	33.85 LT	RBC OTHERS
D-27	1384998.765	2232549.437	847.83	149+08.89	23.95 LT	RBC OTHERS
D-28	1385324.998	2232510.836	850.83	152+36.04	13.66 LT	RBC OTHERS
D-40	1385377.882	2232470.218	846.17	156+42.67	21.34 LT	RBC
D-41	1385313.520	2232517.905	851.30	152+23.40	8.97 LT	RBC
D-100	1385901.347	2232721.004	857.88	404+75.32	14.69 LT	PKNS(G)
D-101	1386236.306	2233134.918	861.00	502+09.16	23.83 LT	PKNS(G)



PROPERTY AND EXISTING R/W LINE ————

REQUIRED R/W LINE ————

CONSTRUCTION LIMITS ————

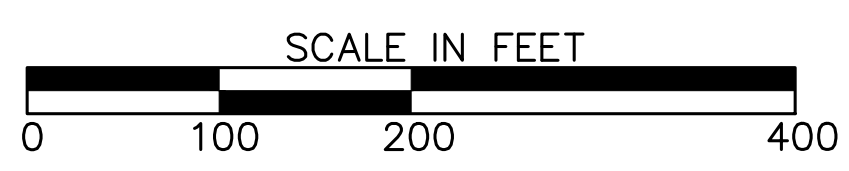
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF DRIVES

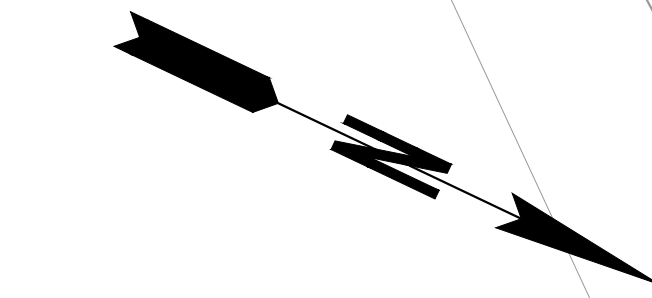
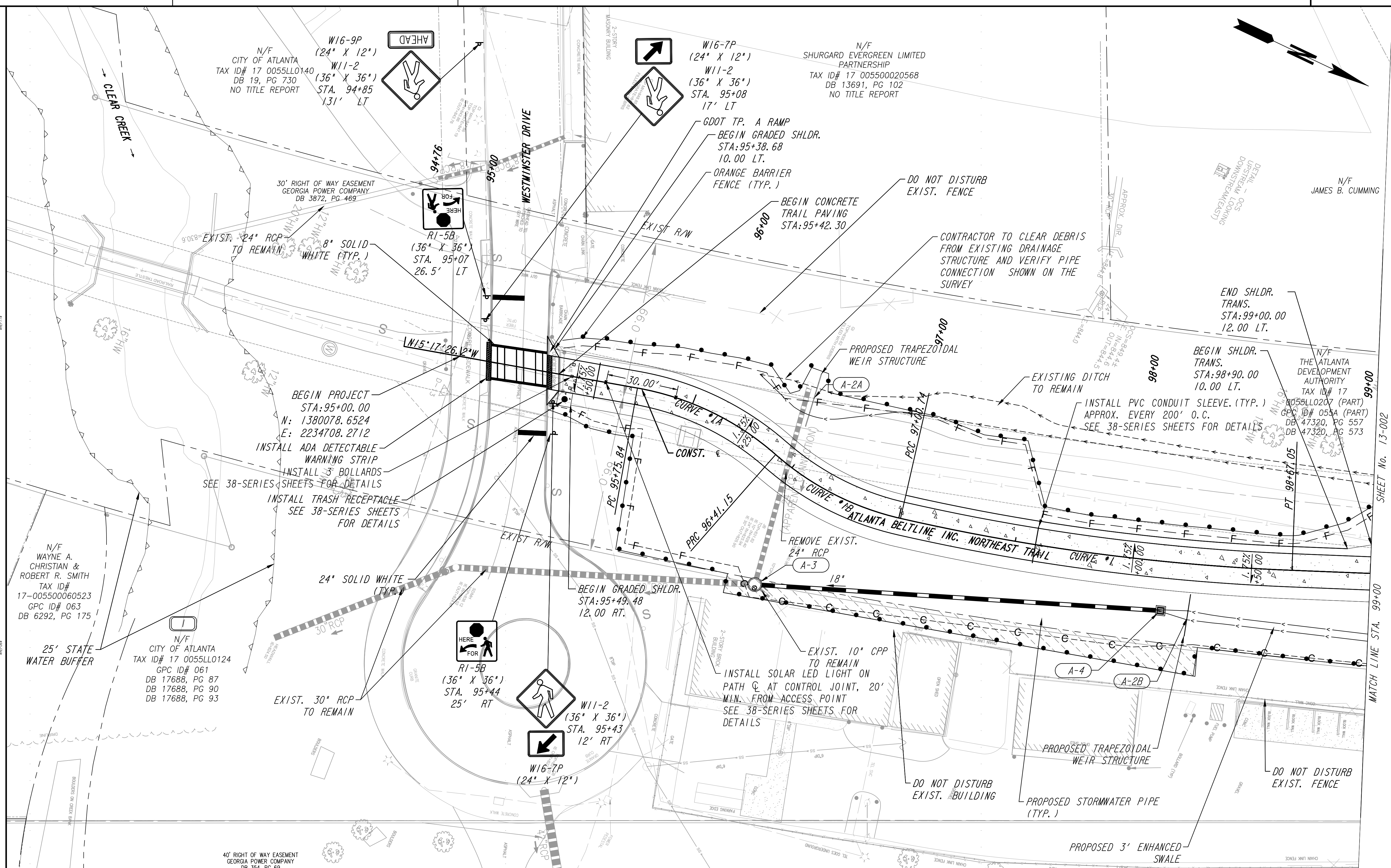
Atlanta BeltLine
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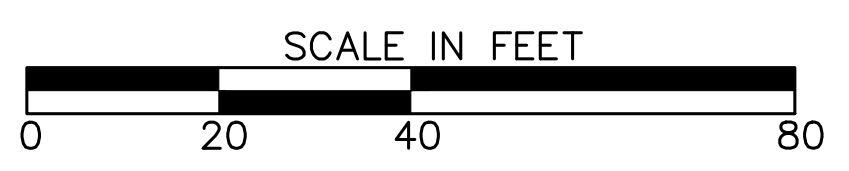
REVISION DATES	

CONSTRUCTION LAYOUT		ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	DRAWING No.	11-003
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

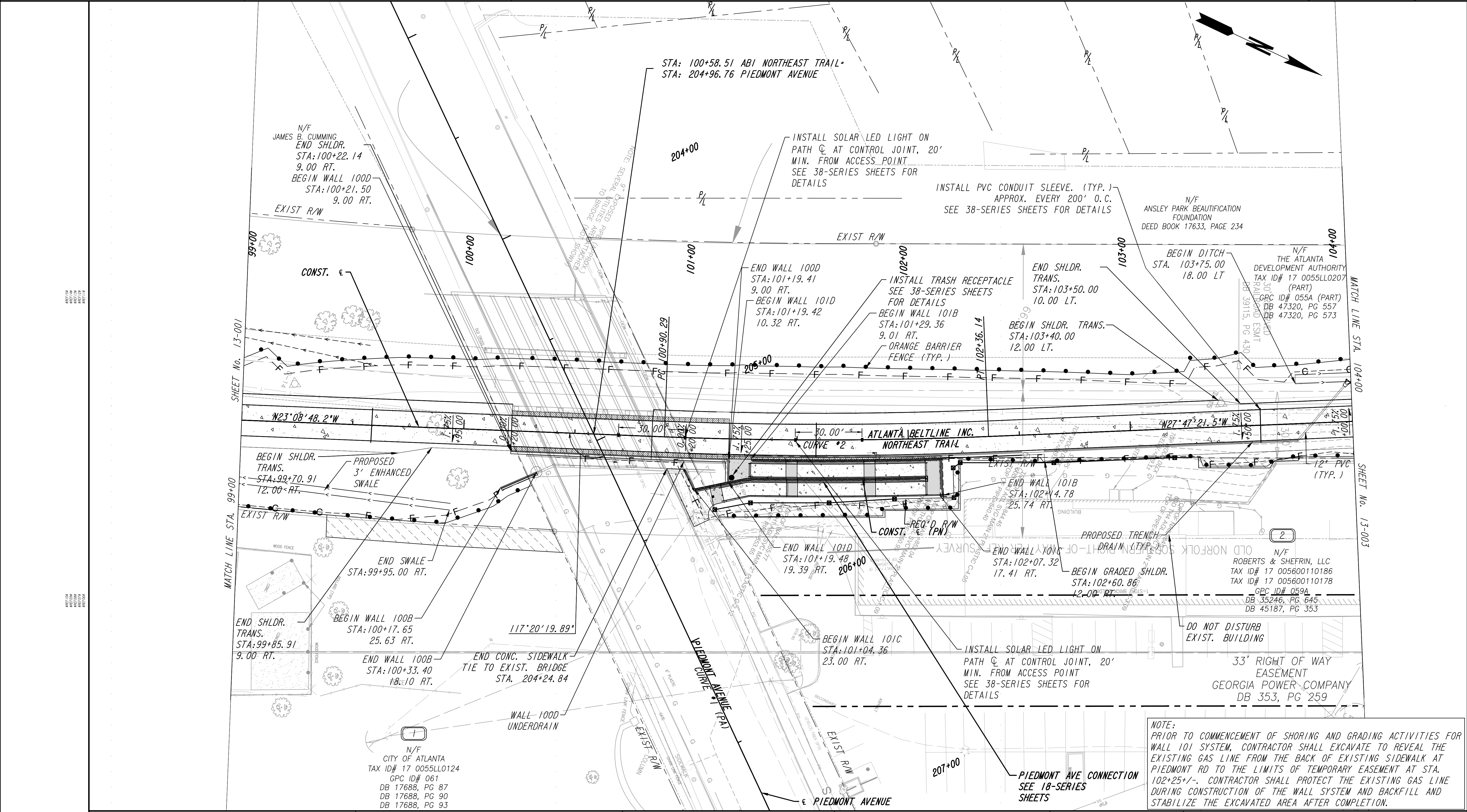
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REVISION DATES	

CONSTRUCTION PLAN
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

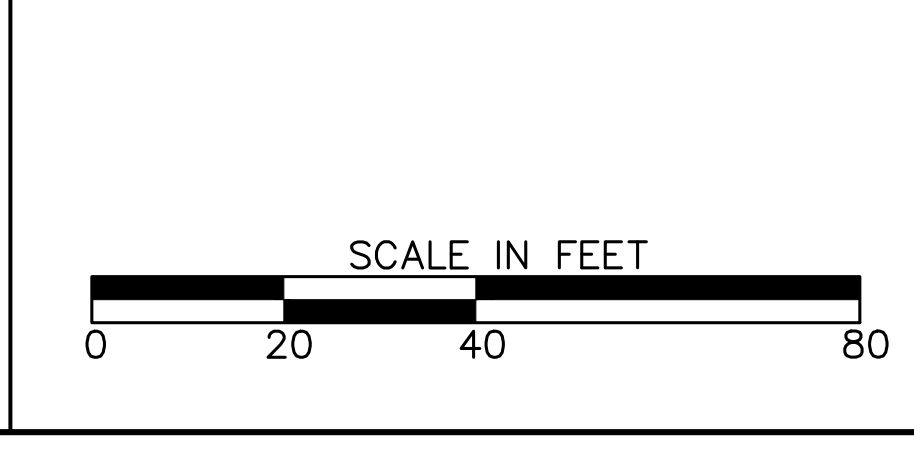


PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---F---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Cross-hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Diagonal Hatched Pattern]

N/F
CITY OF ATLANTA
TAX ID# 17 0055L0124
GPC ID# 061
DB 17688, PG 87
DB 17688, PG 90
DB 17688, PG 93

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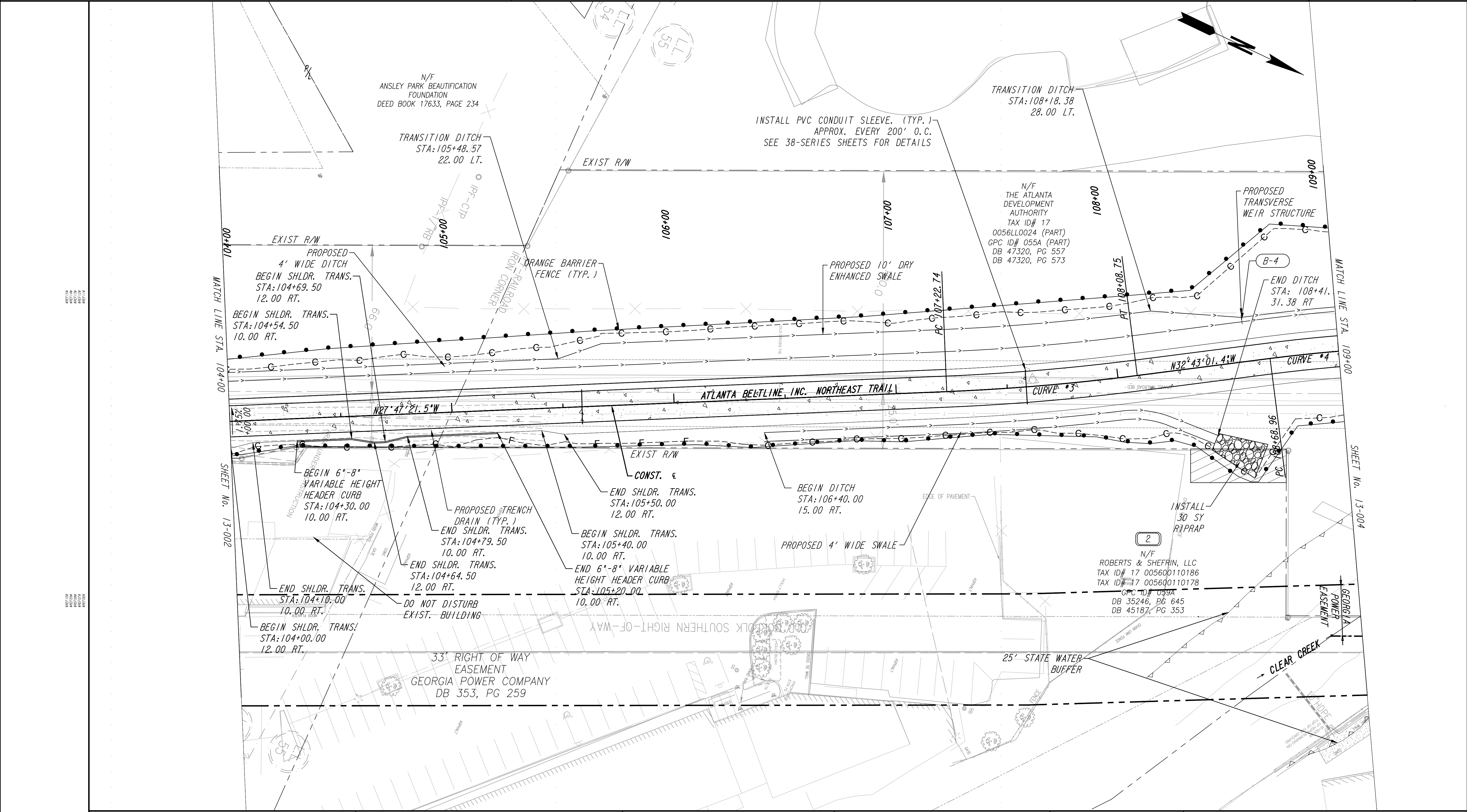


REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
PRIOR TO COMMENCEMENT OF SHORING AND GRADING ACTIVITIES FOR WALL 101 SYSTEM, CONTRACTOR SHALL EXCAVATE TO REVEAL THE EXISTING GAS LINE FROM THE BACK OF EXISTING SIDEWALK AT PIEDMONT RD TO THE LIMITS OF TEMPORARY EASEMENT AT STA. 102+25+/- . CONTRACTOR SHALL PROTECT THE EXISTING GAS LINE DURING CONSTRUCTION OF THE WALL SYSTEM AND BACKFILL AND STABILIZE THE EXCAVATED AREA AFTER COMPLETION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

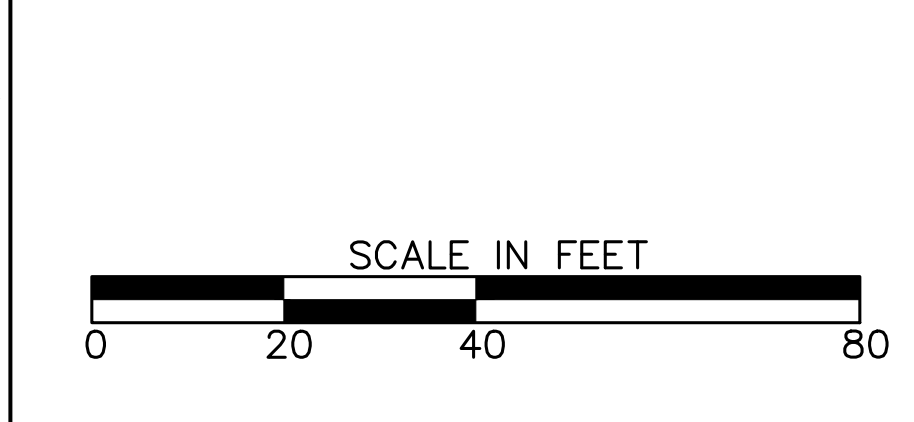
10/23/2015	<p>ANSLEY PARK BEAUTIFICATION FOUNDATION DEED BOOK 17633, PAGE 234</p> <p>THE ATLANTA DEVELOPMENT AUTHORITY TAX ID# 17 0056LL0024 (PART) GPC ID# 055A (PART) DB 47320, PG 557 DB 47320, PG 573</p> <p>ROBERTS & SHEFRIN, LLC TAX ID# 17 005600110186 TAX ID# 17 005600110178 GPC ID# 059A DB 35246, PG 645 DB 45187, PG 353</p>
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Kimley»Horn

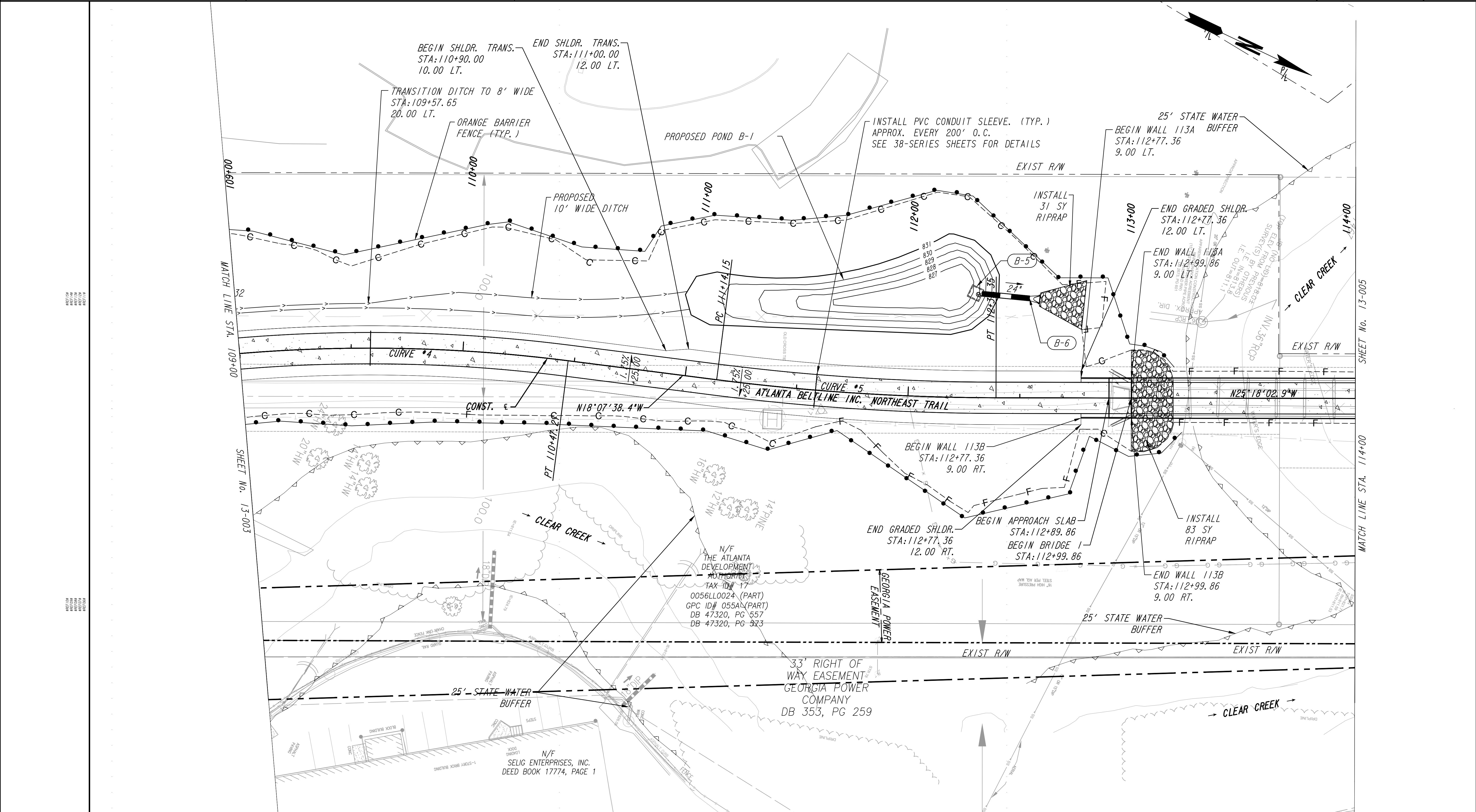
KIMLEY-HORN AND ASSOCIATES, INC.
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REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

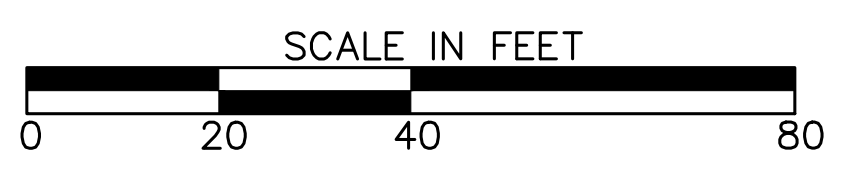


SHEET No. 13-003
 MATCH LINE STA. 109+00
 SHEET No. 13-005
 MATCH LINE STA. 114+00

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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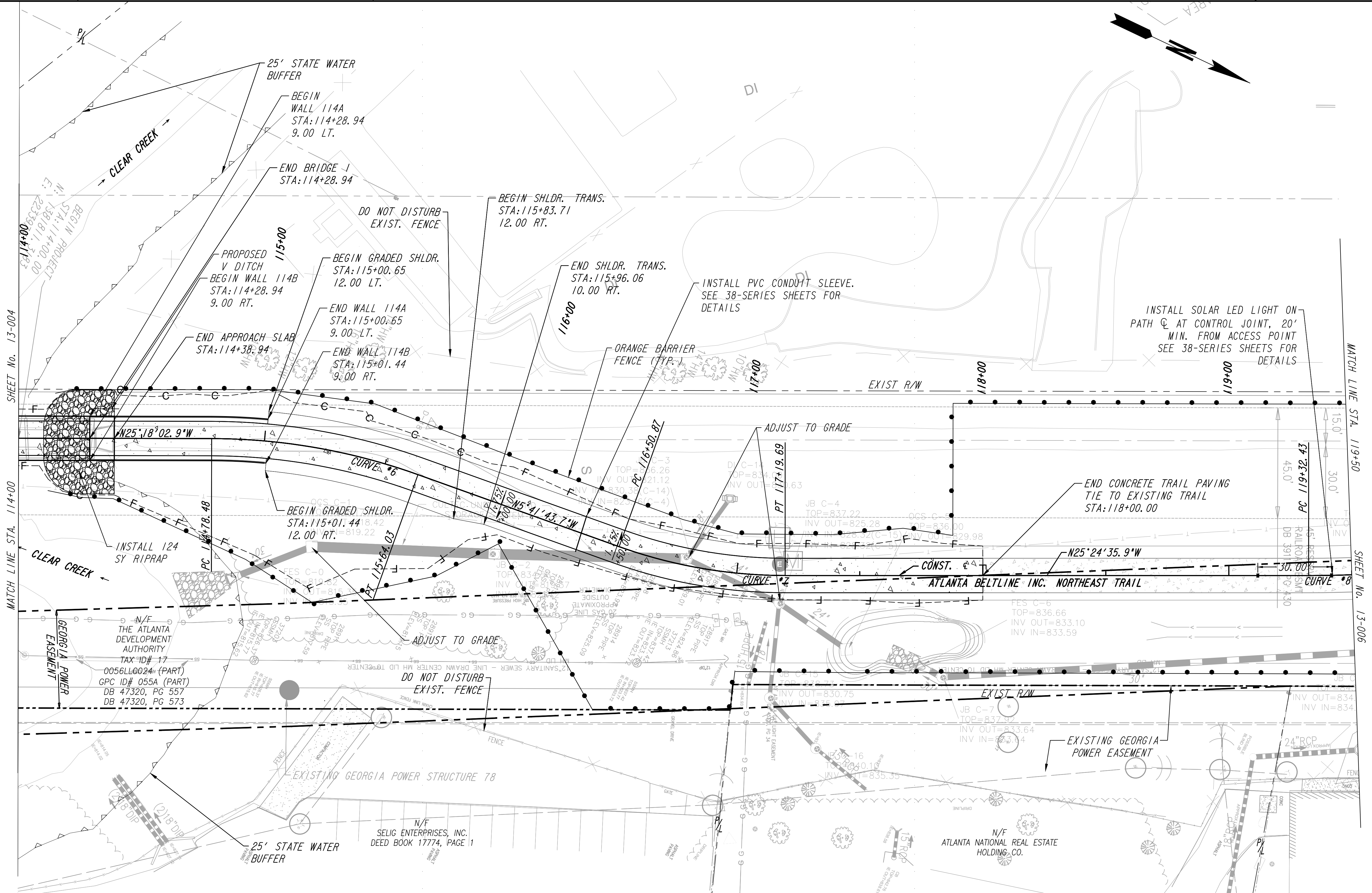
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 THE BILTMORE, SUITE 601
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REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 13-004
 MATCH LINE STA. 114+00
 MATCH LINE STA. 119+50
 SHEET No. 13-006

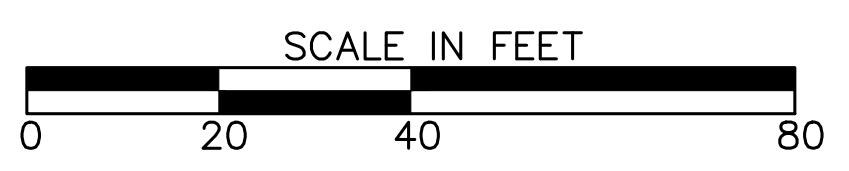
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

Atlanta BeltLine

ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

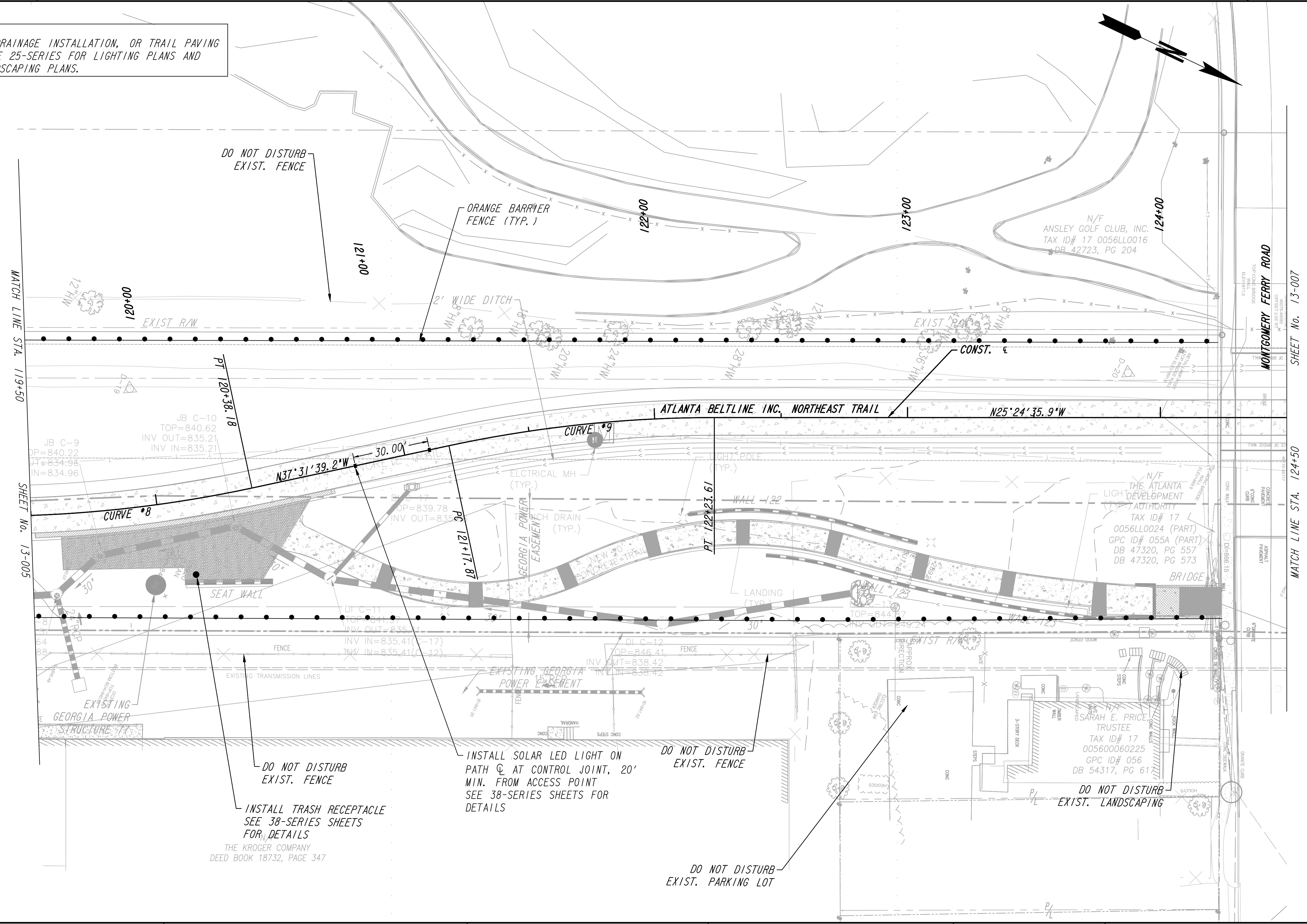


REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.

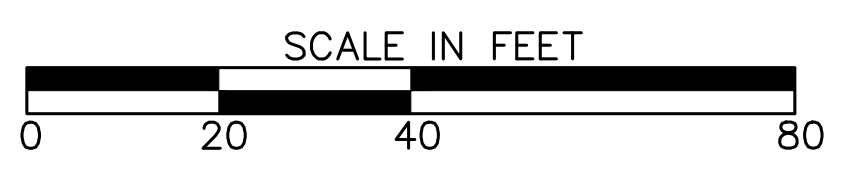


SHEET No. 13-005
 MATCH LINE STA. 119+50
 MATCH LINE STA. 124+50
 SHEET No. 13-007

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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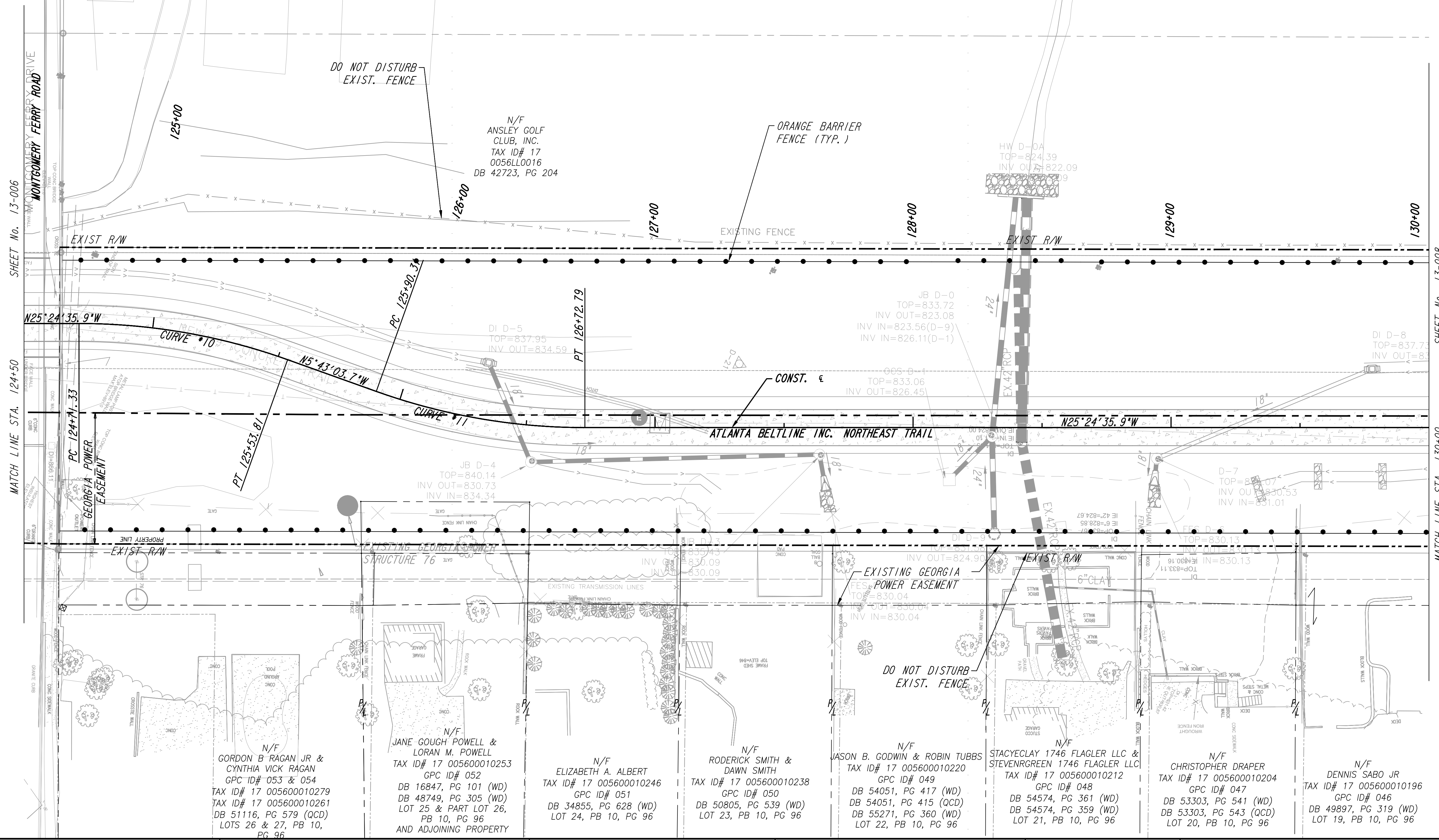
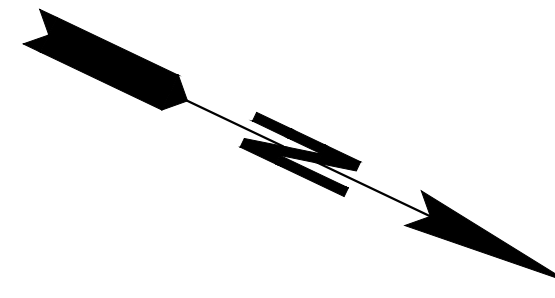


REVISION DATES

CONSTRUCTION PLAN
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.



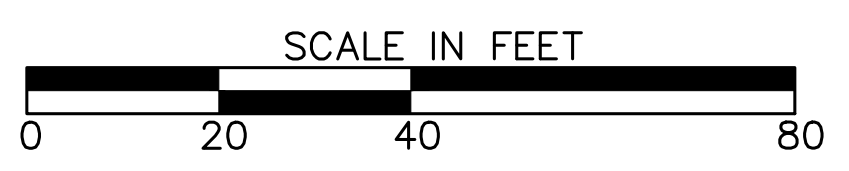
SHEET No. 13-006
 MATCH LINE STA. 124+50
 MONTGOMERY FERRY ROAD
 GEORGIA POWER EASEMENT
 PC 124+71.33
 CURVE *10
 N5°43'03.7"W
 PC 125+53.81
 PT 125+90.37
 CURVE *11
 N25°24'35.9"W
 PT 126+72.79
 CONST. E
 ATLANTA BELTLINE INC. NORTHEAST TRAIL
 N25°24'35.9"W
 MATCH LINE STA. 130+00

- N/F GORDON B RAGAN JR & CYNTHIA VICK RAGAN
 GPC ID# 053 & 054
 TAX ID# 17 005600010279
 TAX ID# 17 005600010261
 DB 51116, PG 579 (QCD)
 LOTS 26 & 27, PB 10,
 PG 96
- N/F JANE GOUGH POWELL & LORAN M. POWELL
 TAX ID# 17 005600010253
 GPC ID# 052
 DB 16847, PG 101 (WD)
 DB 48749, PG 305 (WD)
 LOT 25 & PART LOT 26,
 PB 10, PG 96
 AND ADJOINING PROPERTY
- N/F ELIZABETH A. ALBERT
 TAX ID# 17 005600010246
 GPC ID# 051
 DB 34855, PG 628 (WD)
 LOT 24, PB 10, PG 96
- N/F RODERICK SMITH & DAWN SMITH
 TAX ID# 17 005600010238
 GPC ID# 050
 DB 50805, PG 539 (WD)
 LOT 23, PB 10, PG 96
- N/F JASON B. GODWIN & ROBIN TUBBS
 TAX ID# 17 005600010220
 GPC ID# 049
 DB 54051, PG 417 (WD)
 DB 54051, PG 415 (QCD)
 DB 55271, PG 360 (WD)
 LOT 22, PB 10, PG 96
- N/F STACYCLAY 1746 FLAGLER LLC & STEVENGREEN 1746 FLAGLER LLC
 TAX ID# 17 005600010212
 GPC ID# 048
 DB 54574, PG 361 (WD)
 DB 54574, PG 359 (WD)
 LOT 21, PB 10, PG 96
- N/F CHRISTOPHER DRAPER
 TAX ID# 17 005600010204
 GPC ID# 047
 DB 53303, PG 541 (WD)
 DB 53303, PG 543 (QCD)
 LOT 20, PB 10, PG 96
- N/F DENNIS SABO JR
 TAX ID# 17 005600010196
 GPC ID# 046
 DB 49897, PG 319 (WD)
 LOT 19, PB 10, PG 96

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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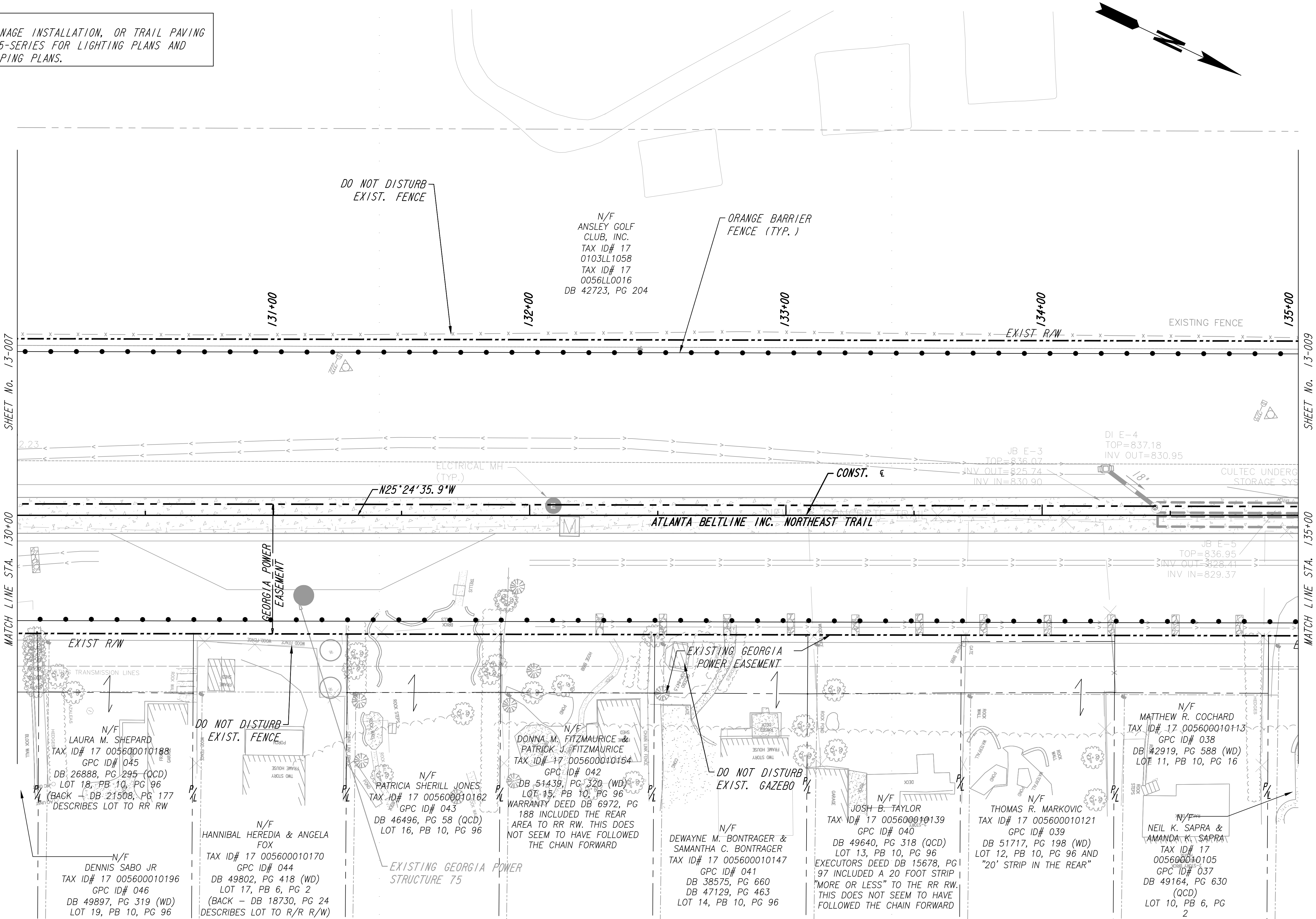
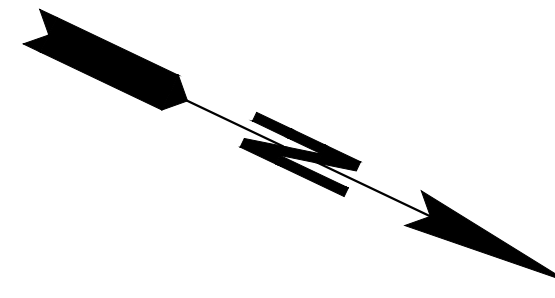


REVISION DATES	

CONSTRUCTION PLAN
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.



SHEET No. 13-007

SHEET No. 13-009

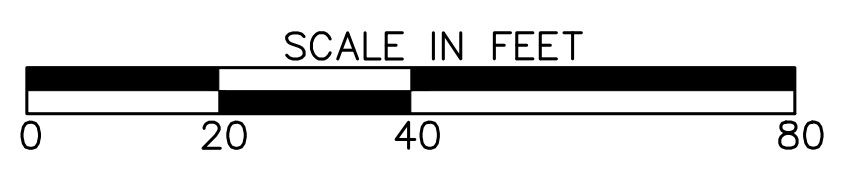
MATCH LINE STA. 130+00

MATCH LINE STA. 135+00

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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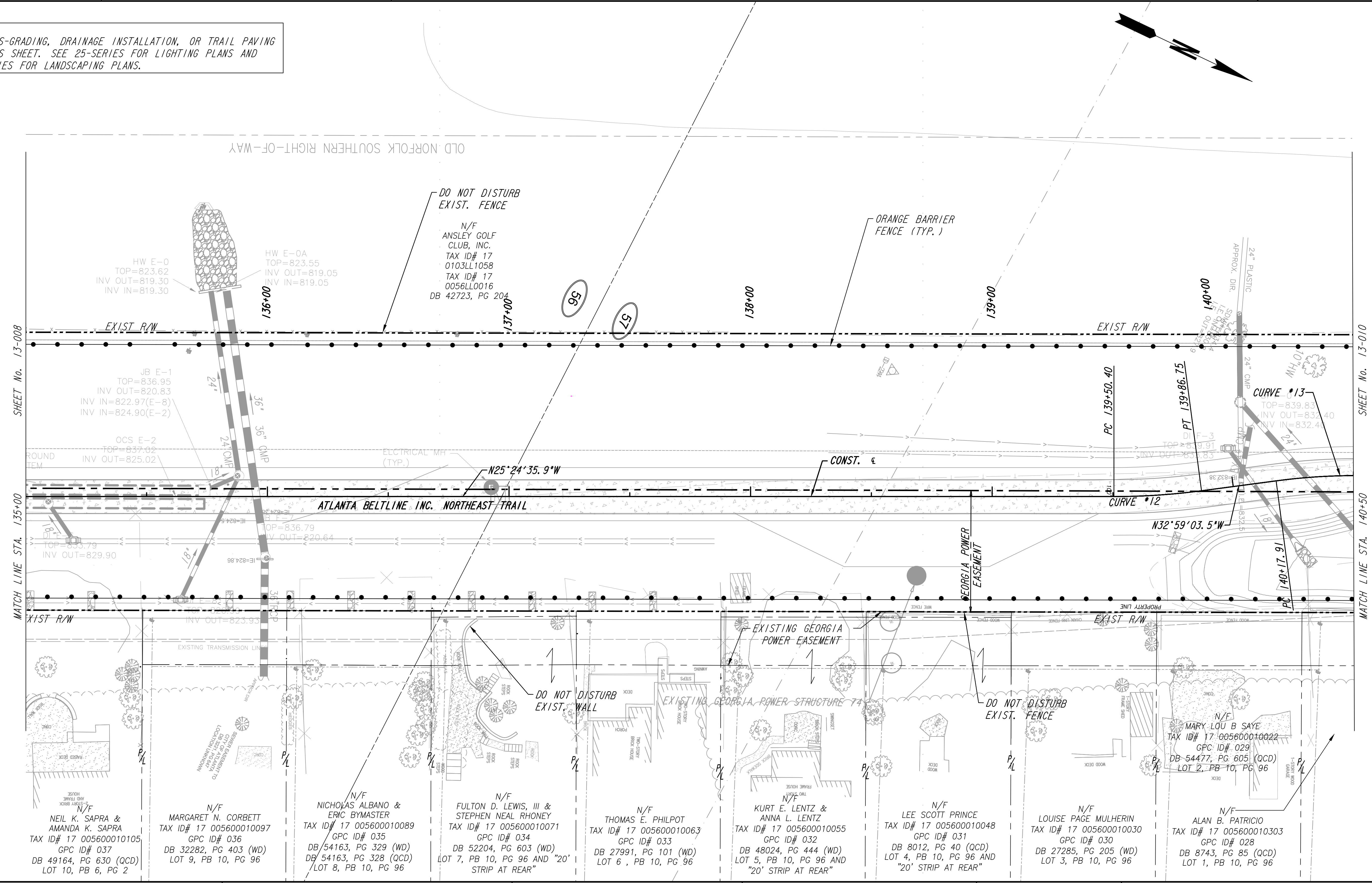


REVISION DATES	

CONSTRUCTION PLAN
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.



SHEET No. 13-008
MATCH LINE STA. 135+00

SHEET No. 13-010
MATCH LINE STA. 140+50

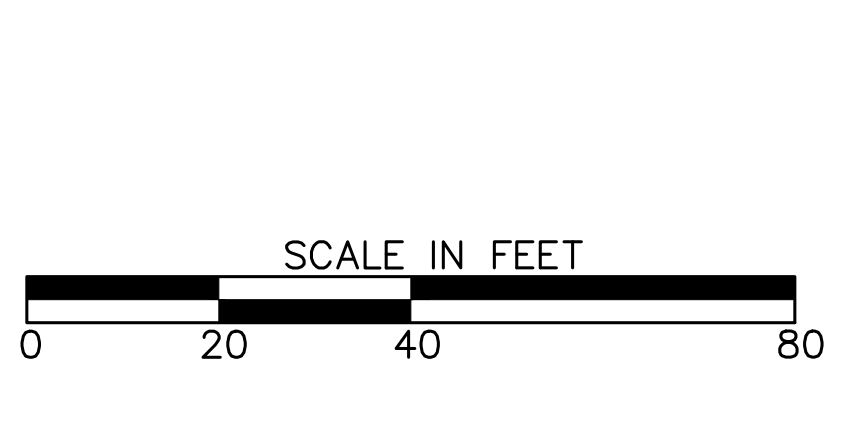
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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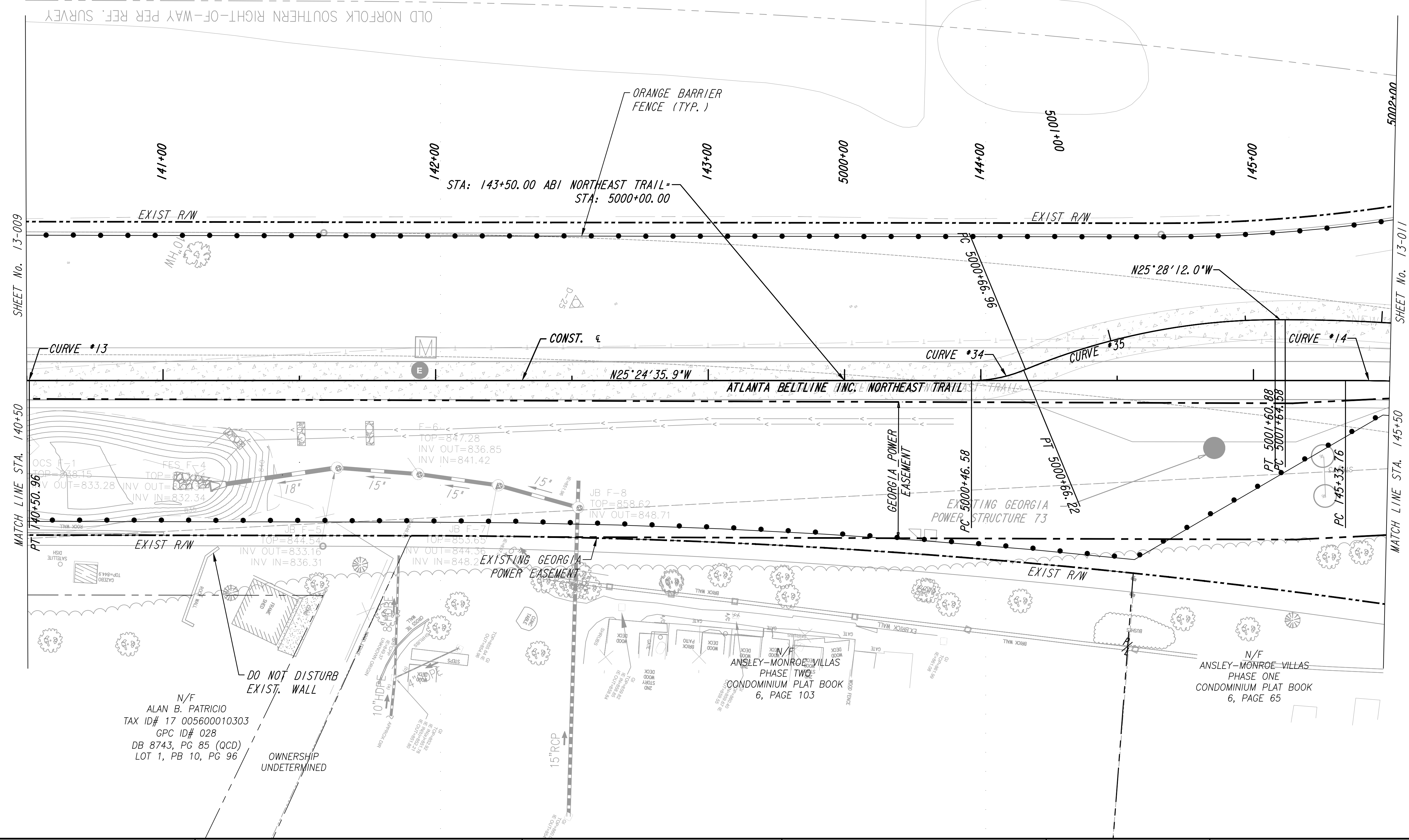
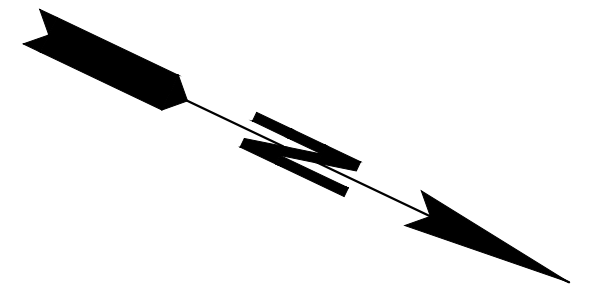


REVISION DATES	

CONSTRUCTION PLAN
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-009
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
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29-SERIES FOR LANDSCAPING PLANS.

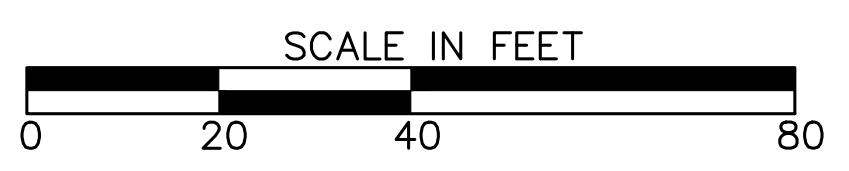


REVISION
DATE
BY
DESCRIPTION

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
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REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-010
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

N/F
ANSLEY GOLF CLUB, INC.
TAX ID# 17 0103LL1058
TAX ID# 17 0056LL0016
DB 42723, PG 204

BEGIN TRAIL TRANS.
STA: 5005+54.65
7.00 LT.

TIE TO EXISTING SHLDR.
STA: 5004+80.22
12.00 LT.

CONTRACTOR SHALL REMOVE AND DISPOSE
OF STOCKPILED RAILROAD TIES. COST
SHALL BE PAID FOR UNDER GRADING
COMPLETE

ORANGE BARRIER
FENCE (TYP.)

END TRAIL TRANS.
STA: 149+50.00
6.00 LT.

END SHLDR. TRANS.
STA: 149+50.05
8.00 LT.

BEGIN SHLDR. TRANS.
STA: 149+40.05
12.00 LT.

APPROACH SLAB
STA: 149+46.25

END PROJECT
STA: 150+00.00
N: 138609.4, 3709
E: 2232559.4399

MATCH LINE STA. 145+50

EXIST R/W

SHEET NO. 13-010

EXIST R/W

EXIST R/W

EXIST R/W

5003+00

147+00

5004+00

148+00

149+00

00+051

ELECTRICAL MH (TYP.)

CONST. E

ATLANTA BELTLINE INC. NORTHEAST TRAIL

N11°58'03.3"W

CURVE *14

CURVE *15

N7°42'58.6"W

CURVE *16

CURVE *17

BEGIN TRAIL TRANS.
STA: 5005+58.22
7.00 RT.
STA: 149+25.46 ABI NORTHEAST TRAIL -
STA: 5005+81.01

BEGIN SHLDR. TRANS.
STA: 149+40.00
12.00 RT.

BEGIN CONCRETE TRAIL PAVING
TIE TO EXISTING TRAIL
STA: 5004+80.29

END TRAIL TRANS.
STA: 149+50.00
6.00 RT.

TIE TO EXISTING SHLDR.
STA: 5004+80.36
12.00 RT.

END SHLDR. TRANS.
STA: 149+50.00
8.00 RT.

N/F
NELSON F. GOETZ
TAX ID# 17 005700040341
DB 22398, PG 238
(DESCRIPTION IN GROUND
LEASE)

BEGIN BRIDGE 2
STA: 149+55.92

INSTALL PVC CONDUIT SLEEVE.
SEE 38-SERIES SHEETS FOR DETAILS

INSTALL SAFETY FENCE
SEE 38-SERIES SHEETS
FOR DETAILS

N/F
ANSLEY-MONROE VILLAS
PHASE ONE
CONDOMINIUM PLAT BOOK
6, PAGE 65

EX. BRICK WALL

R/W

EXISTING PARKING LOT

SHEET No. 13-012

MATCH LINE STA. 150+00

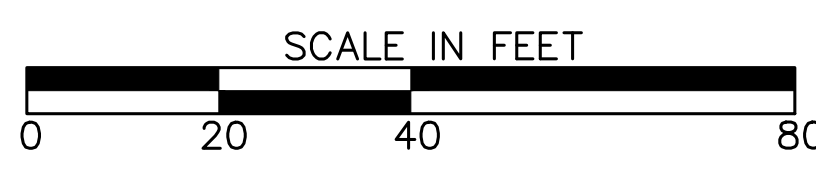
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	



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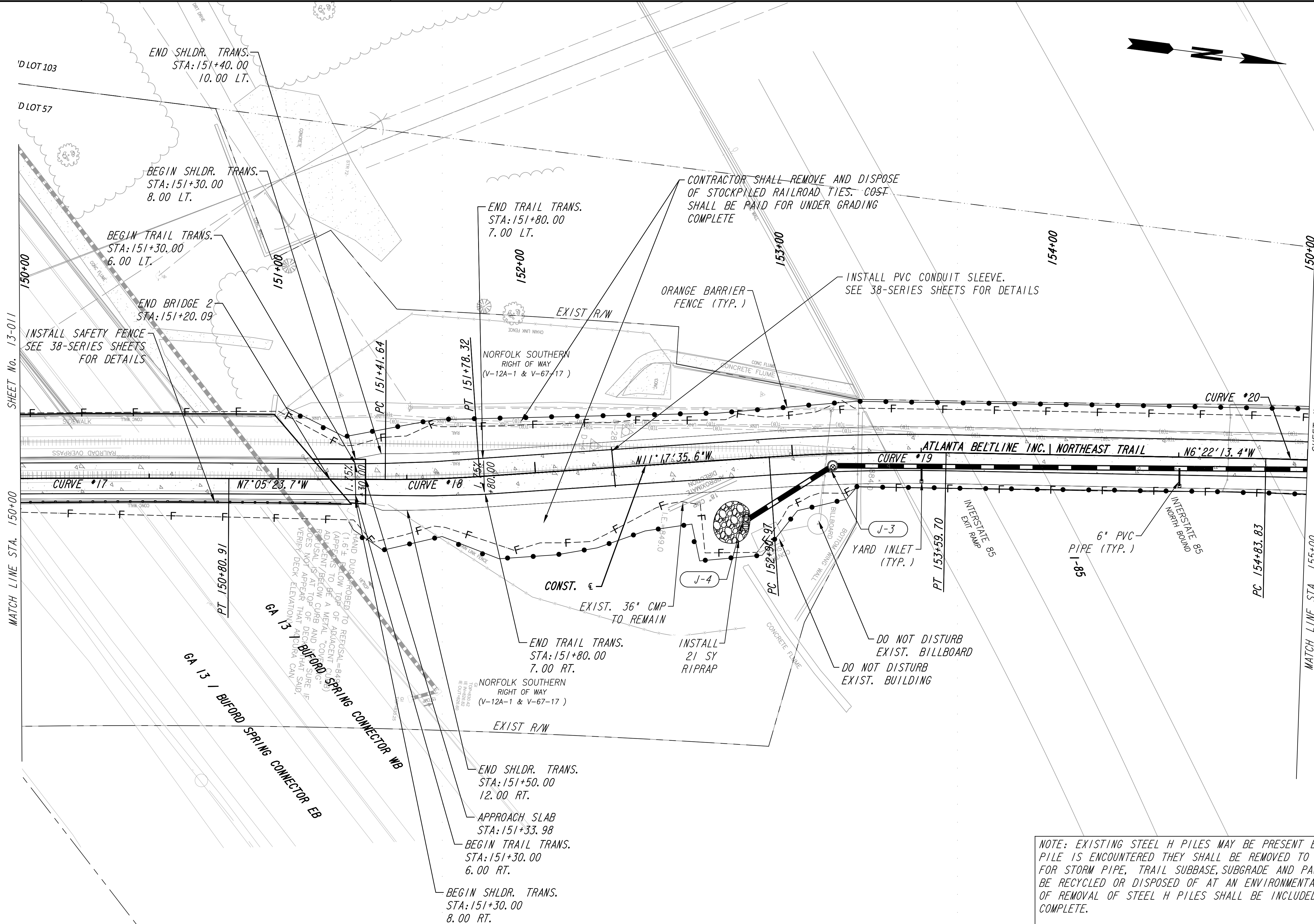
Kimley-Horn
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REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 13-011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

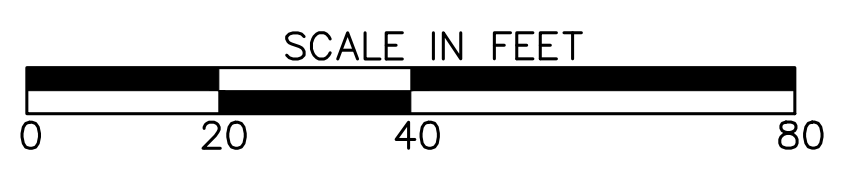


NOTE: EXISTING STEEL H PILES MAY BE PRESENT BENEATH GRADE. IF STEEL H PILE IS ENCOUNTERED THEY SHALL BE REMOVED TO THE LIMITS OF CONSTRUCTION FOR STORM PIPE, TRAIL SUBBASE, SUBGRADE AND PAVING. STEEL REMNANTS SHALL BE RECYCLED OR DISPOSED OF AT AN ENVIRONMENTALLY APPROVED FACILITY. COST OF REMOVAL OF STEEL H PILES SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.

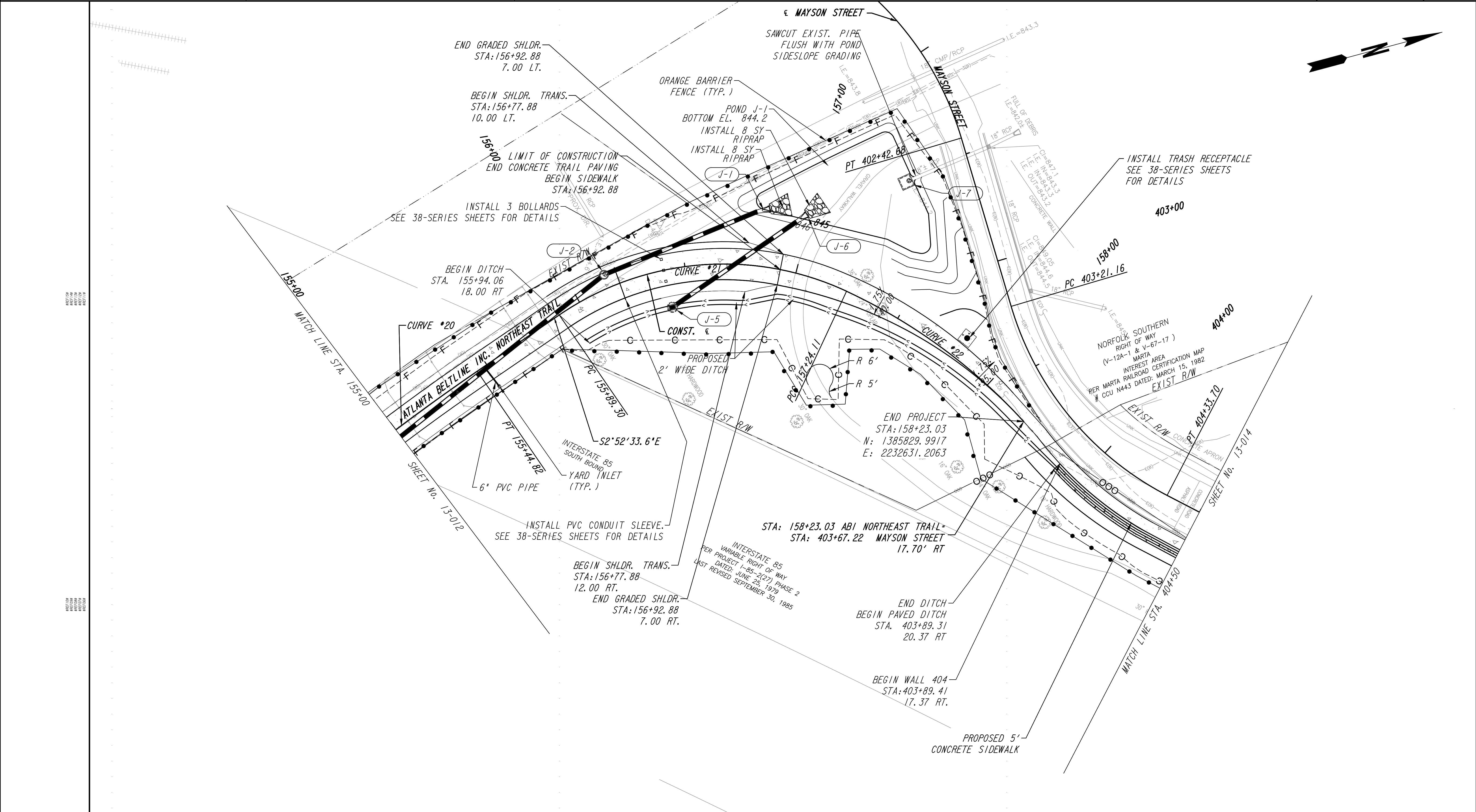
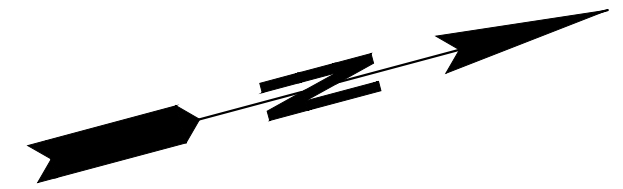
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
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REVISION DATES		DRAWING No.	
CHECKED:	DATE:	13-012	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		



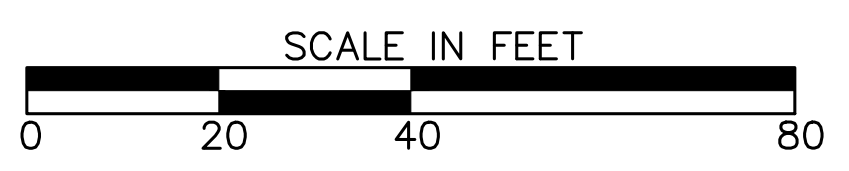
PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
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Kimley»Horn

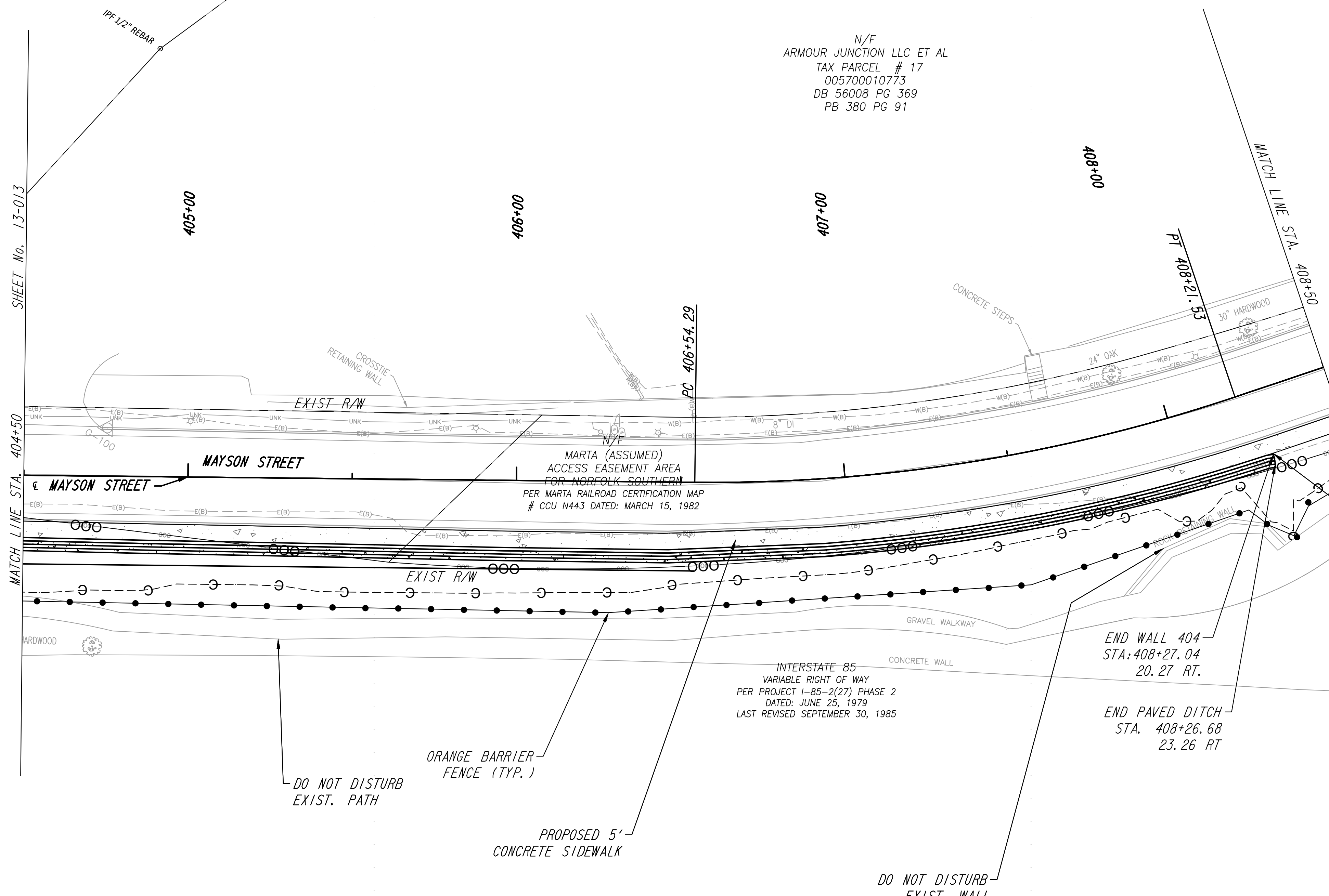
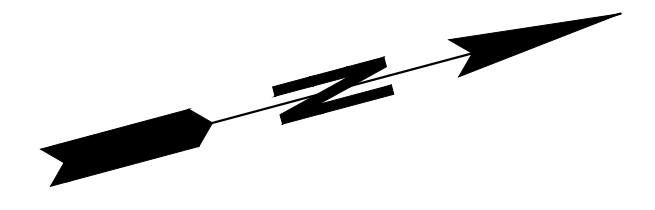
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REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 404+50 SHEET No. 13-013

MATCH LINE STA. 408+50 SHEET No. 13-015

N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17
005700010773
DB 56008 PG 369
PB 380 PG 91

MARTA (ASSUMED)
ACCESS EASEMENT AREA
FOR NORFOLK SOUTHERN
PER MARTA RAILROAD CERTIFICATION MAP
CCU N443 DATED: MARCH 15, 1982

INTERSTATE-85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

END WALL 404
STA: 408+27.04
20.27 RT.

END PAVED DITCH
STA. 408+26.68
23.26 RT

DO NOT DISTURB
EXIST. PATH

ORANGE BARRIER
FENCE (TYP.)

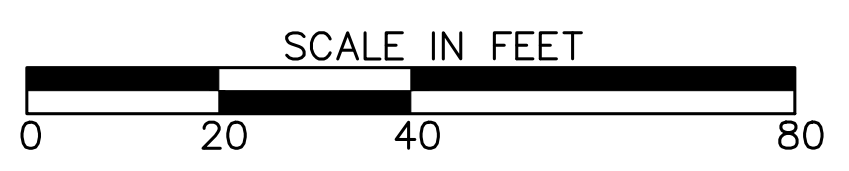
PROPOSED 5'
CONCRETE SIDEWALK

DO NOT DISTURB
EXIST. WALL

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
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CONSTRUCTION PLAN
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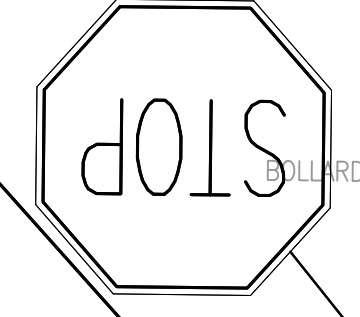
DRAWING No.
13-014

STA: 501+85.54 PLASTERS AVENUE
STA: 409+82.10 MAYSON STREET

N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17
005700010815
DB 56008 PG 369

W16-9P
(24" X 12")
W11-2
(36" X 36")
STA. 501+05 RT

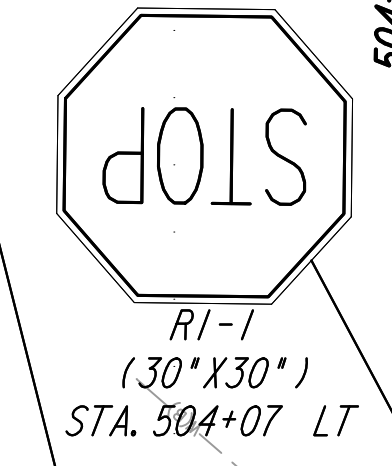
RI-1
(30" X 30")
STA. 501+78 LT



N/F
EPIC CXXX LLC
TAX PARCEL # 17
005700010872
DB 56008 PG 369
PB 380 PG 91

W16-7P
(24" X 12")
W11-2
(36" X 36")
STA. 502+24 LT

N/F
BURNS PARK REALTY LLC
TAX PARCEL # 17
005700010351
DB 35917, PG 612
PB 96 PG 46

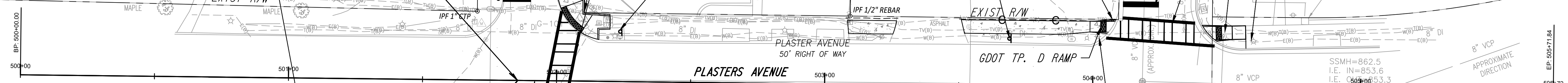


24" SOLID WHITE
(TYP.)

8" SOLID WHITE
(TYP.)

N/F
CWS ARMOUR LLC ET AL
TAX PARCEL # 17
005700010351
DB 53711 PG 176

GDOT TP. D RAMP



GDOT TP. B MOD. RAMP
N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17
005700010773
DB 56008 PG 369
PB 380 PG 91
CONCRETE STEPS

MATCH LINE STA. 408+50

SHEET No. 13-014

129°52'46.90"

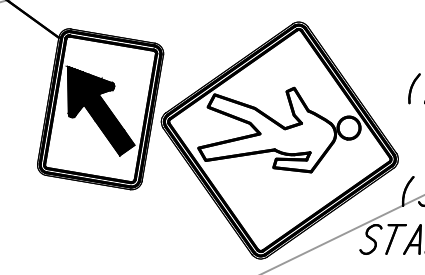
ORANGE BARRIER FENCE (TYP.)

REMOVE EXIST STAIRS
PROPOSED 5' CONCRETE SIDEWALK

RI-1
(30" X 30")
STA. 409+58 RT



W16-7P
(24" X 12")
W11-2
(36" X 36")
STA. 501+99 RT



DO NOT DISTURB EXIST. POLE

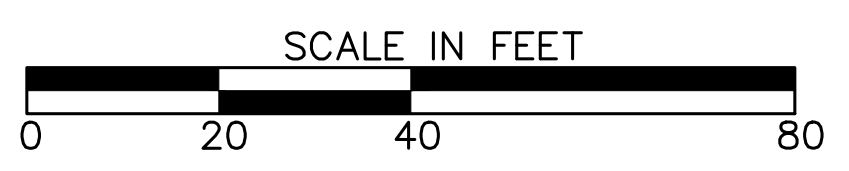
INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

LIMIT OF CONSTRUCTION
STA: 504+60.00

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

Atlanta BeltLine
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100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

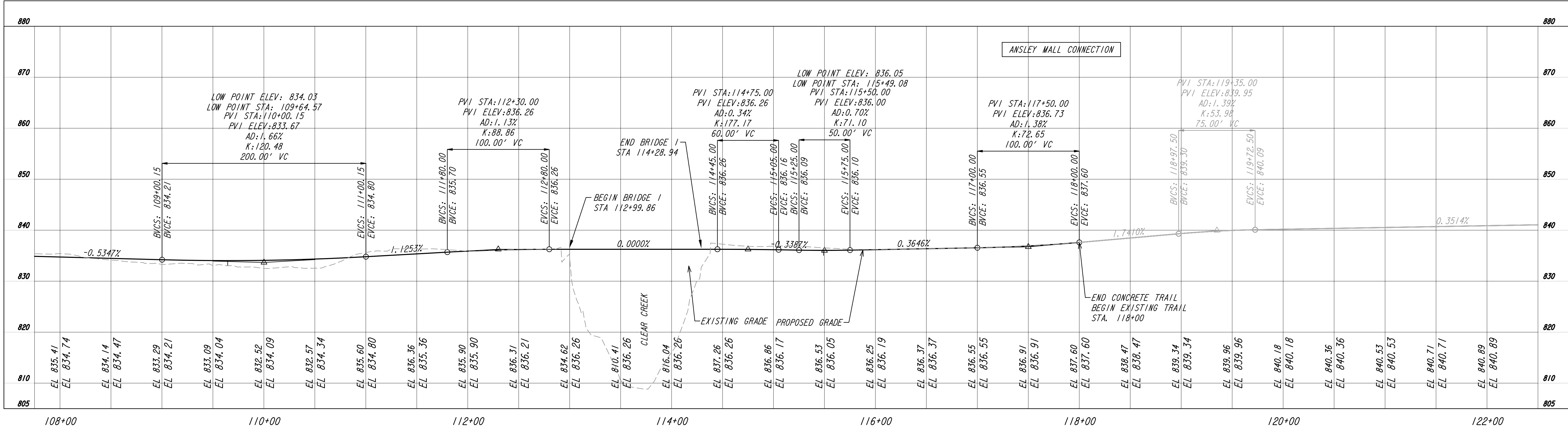
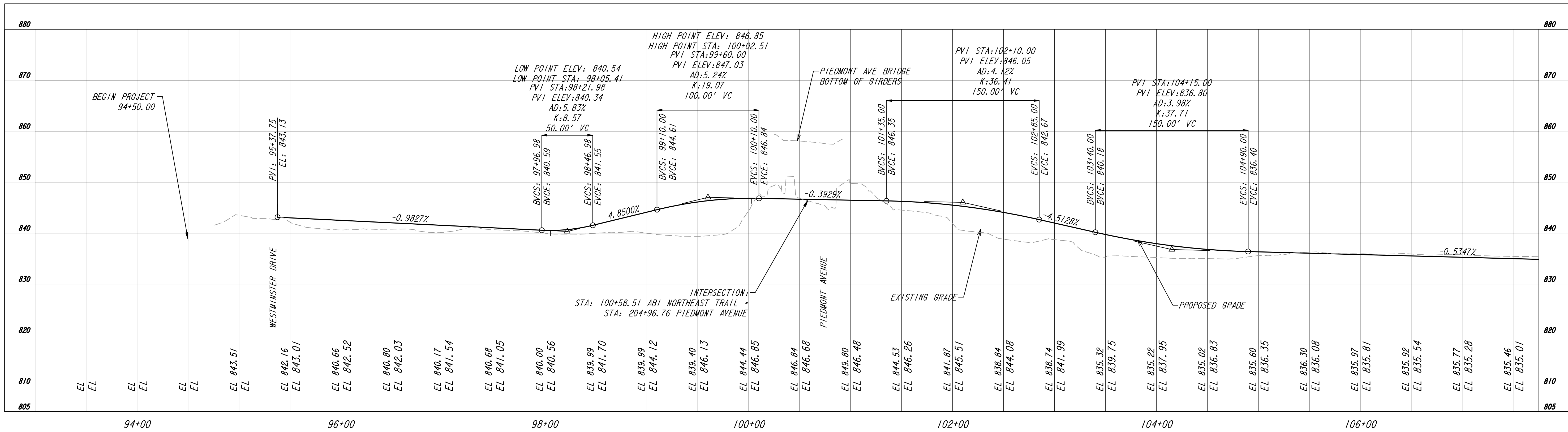
Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
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817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

CONSTRUCTION PLAN
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-015
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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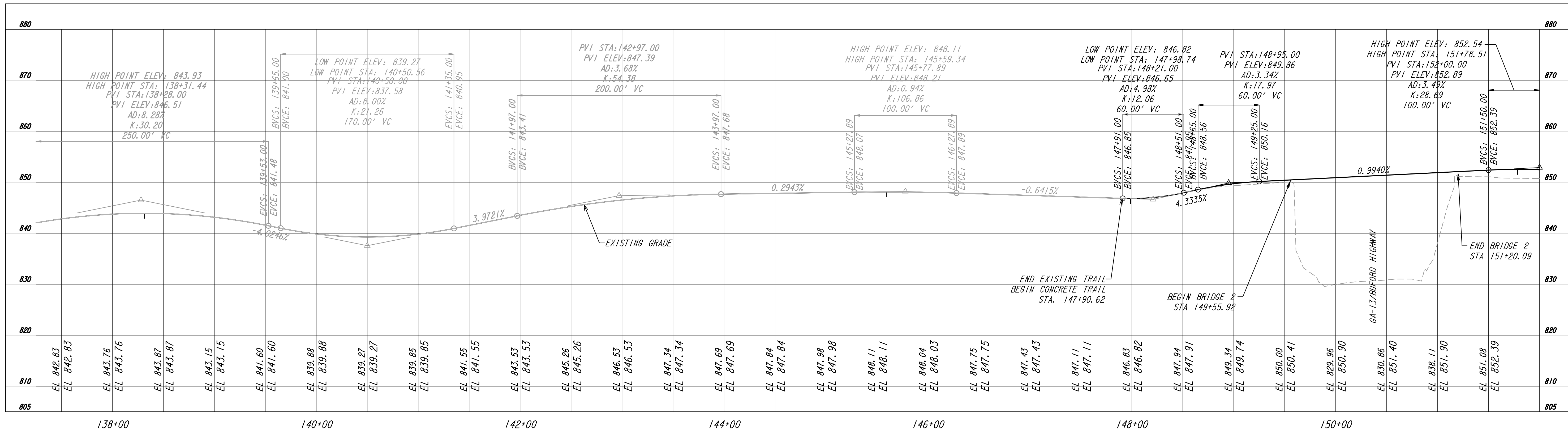
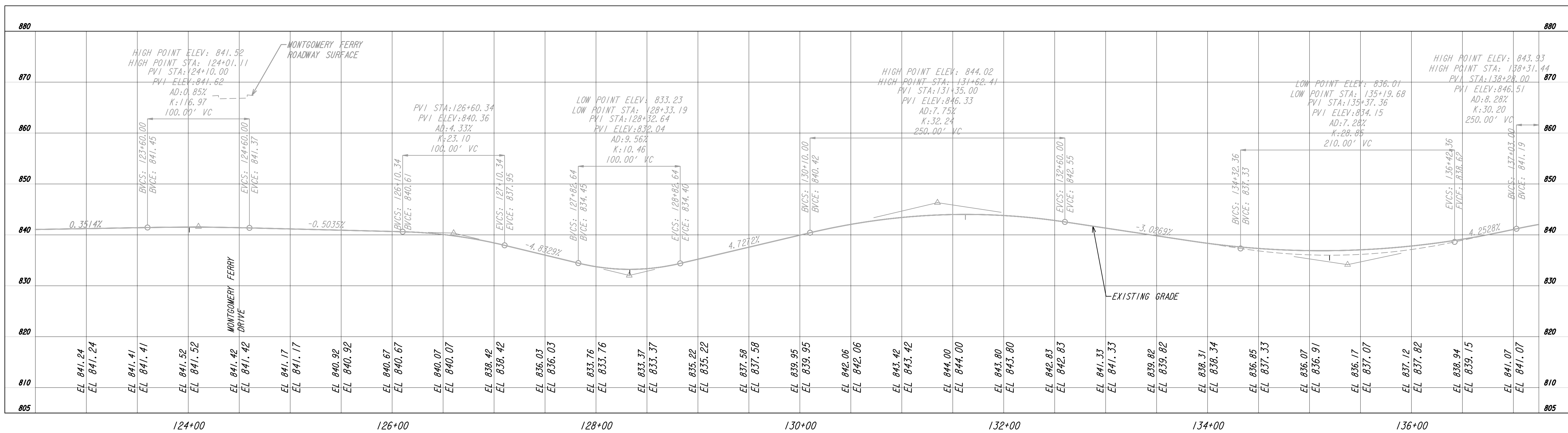
KIMLEY-HORN AND ASSOCIATES, INC.
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 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

REVISION DATES

MAINLINE PROFILE
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 15-001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



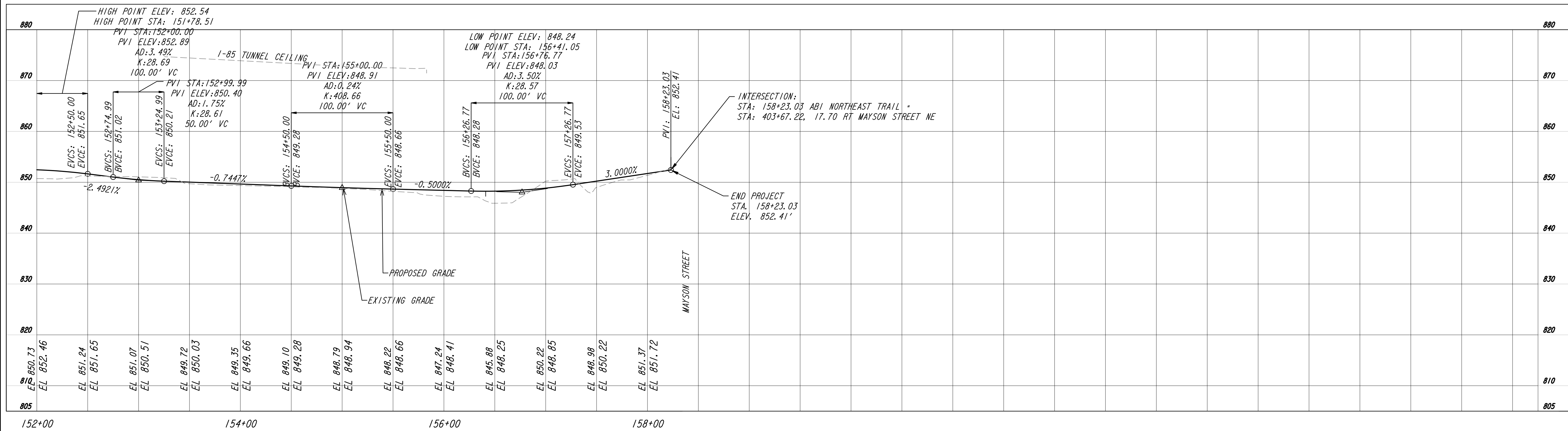
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1" = 10' VERT.

REVISION DATES		DRAWING No.	
CHECKED:	DATE:	15-002	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

MAINLINE PROFILE
ATLANTA BELTLINE NORTHEAST TRAIL



PREP'D BY: JKH
 CHECK'D BY: JKH
 APPROVED BY: JKH

PREP'D BY: JKH
 CHECK'D BY: JKH
 APPROVED BY: JKH

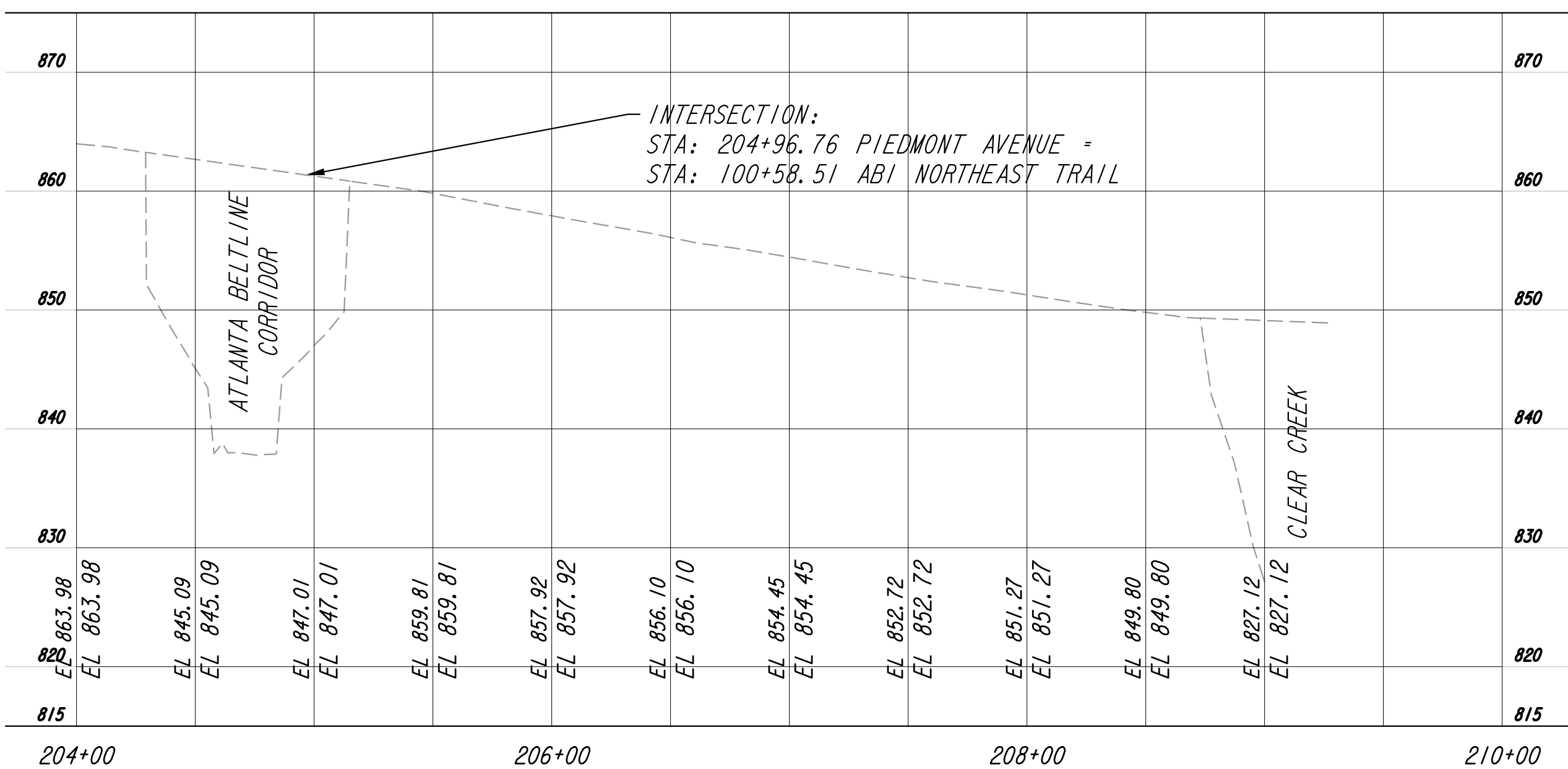
REVISION DATES

NO.	DATE	DESCRIPTION

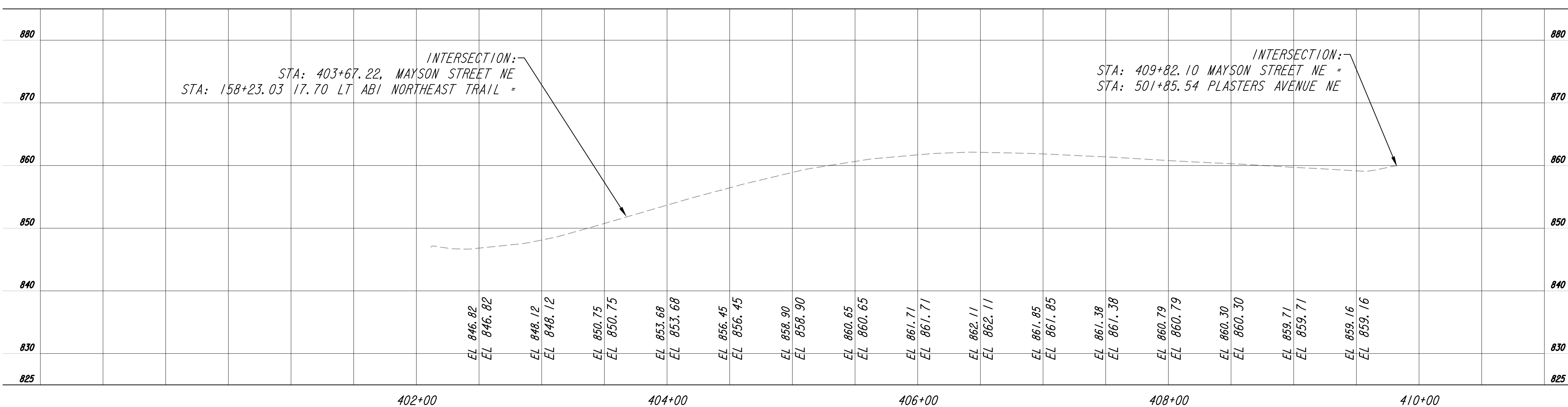
MAINLINE PROFILE
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	15-003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

PIEDMONT AVENUE



MAYSON STREET



PROJECT IN PROGRESS

PROJECT IN PROGRESS

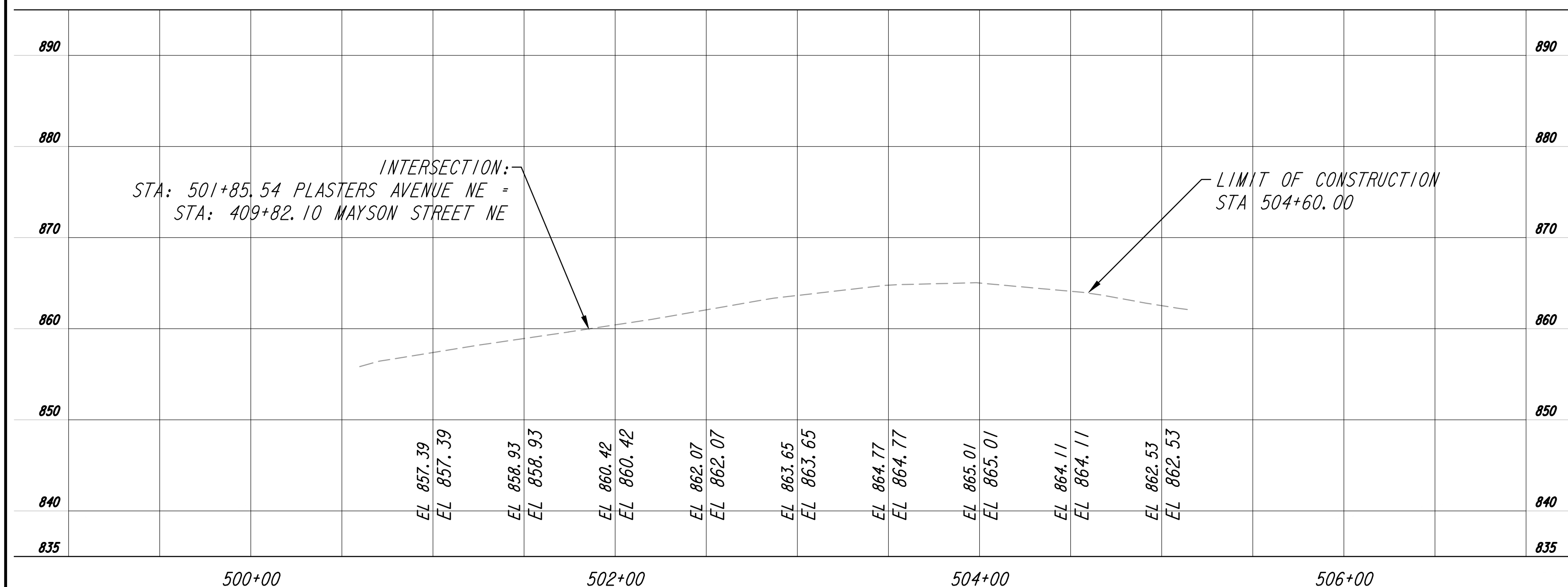
REVISION DATES

CROSSROAD PROFILE

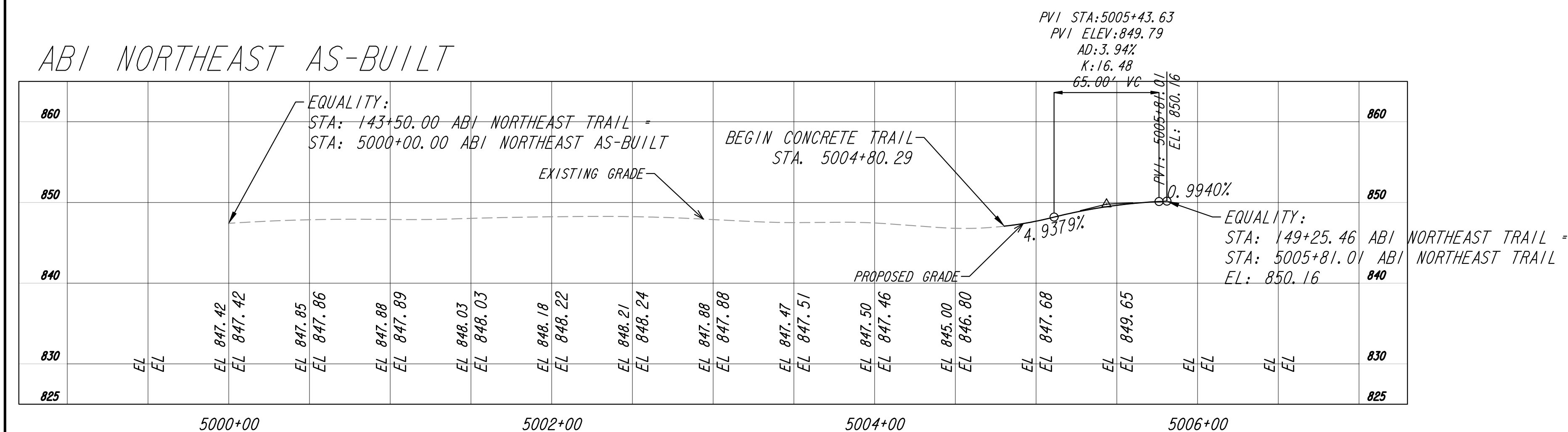
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

PLASTERS AVENUE



ABI NORTHEAST AS-BUILT



SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

REVISION DATES

No.	DATE	DESCRIPTION

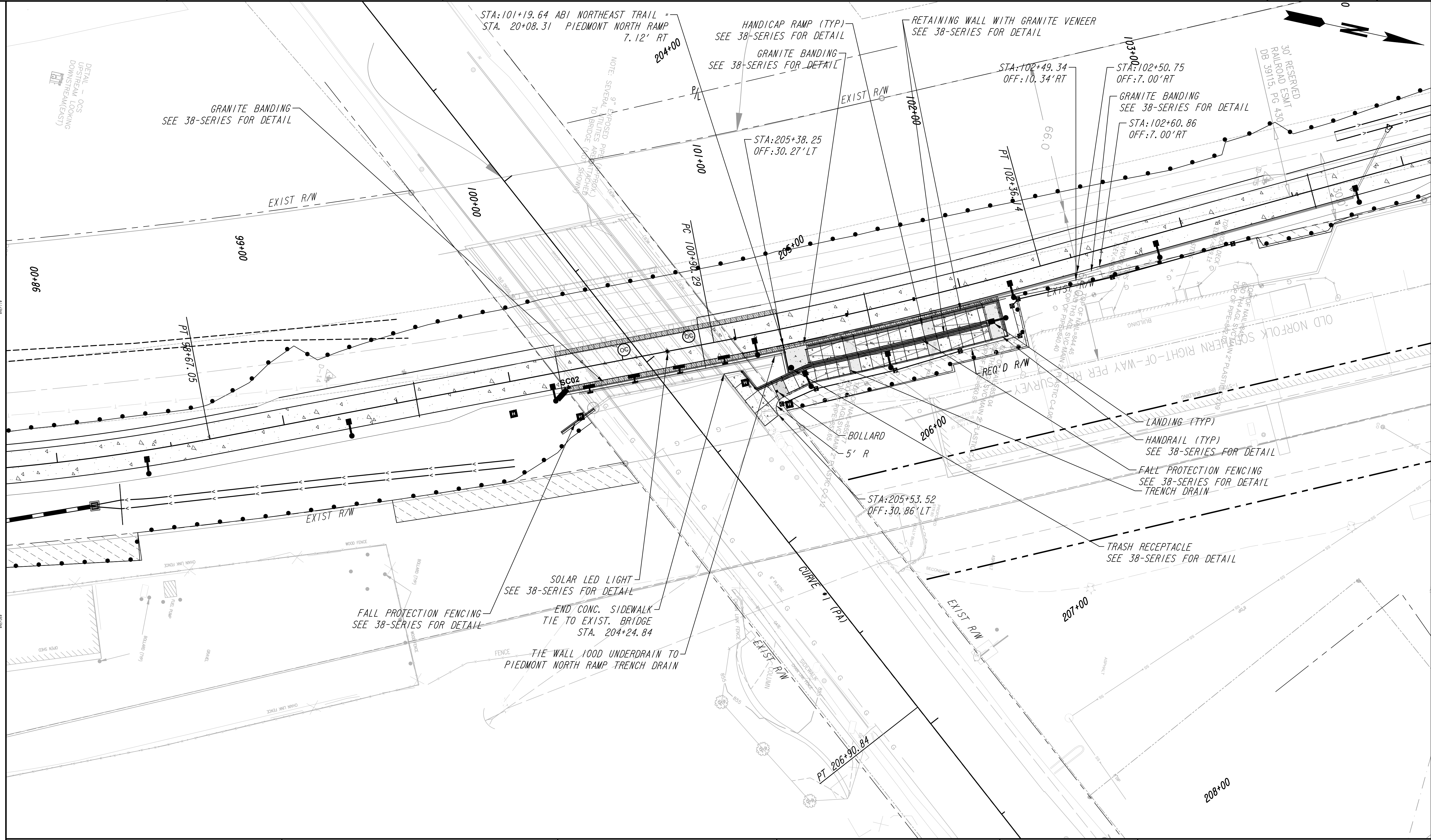
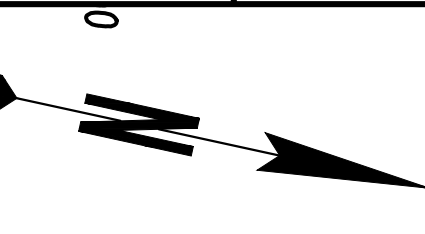
CROSSROAD PROFILE

ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.

16-002

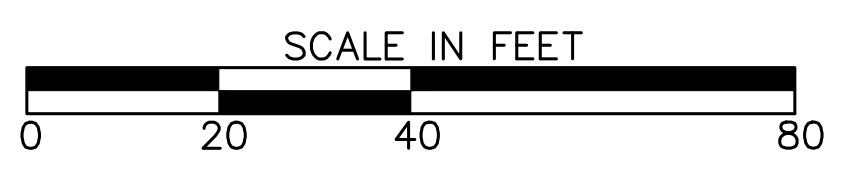


REVISION
DATE
BY
CHECKED
DATE
BY
PROJECT

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
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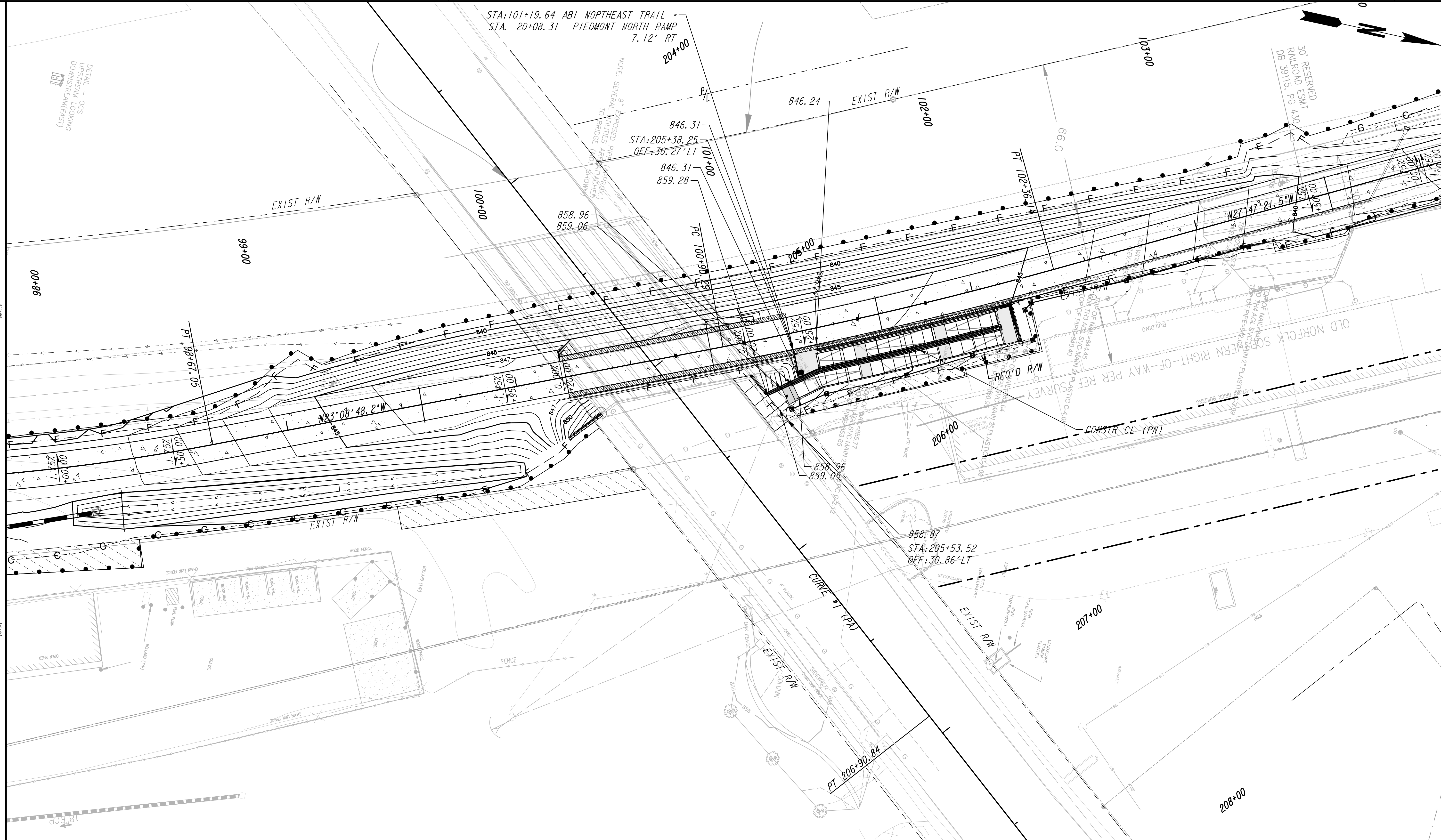
Kimley»Horn
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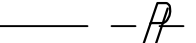

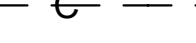
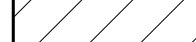
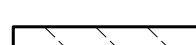
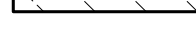


REVISION DATES		

SPECIAL GRADING
ATLANTA BELTLINE NORTHEAST TRAIL
PIEDMONT AVE RAMP SYSTEM

CHECKED:	DATE:	DRAWING No. 18-010
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



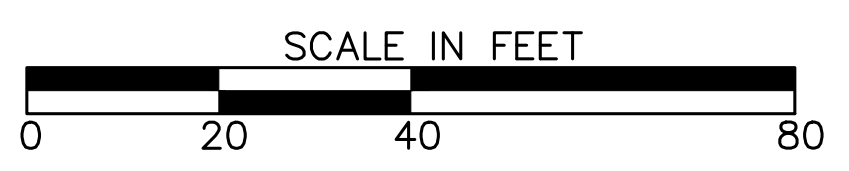
PROPERTY AND EXISTING R/W LINE 
 REQUIRED R/W LINE 
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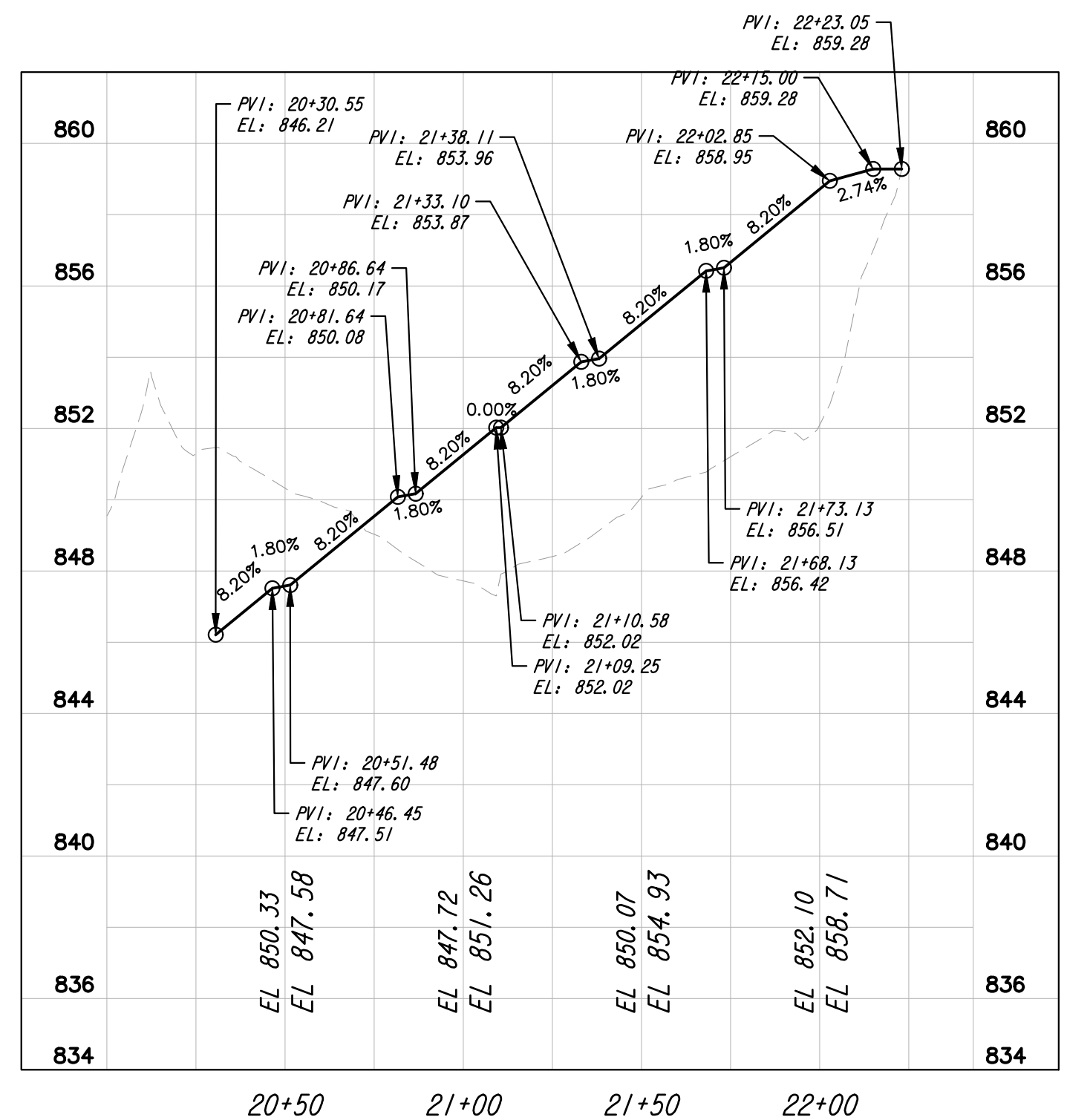
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REVISION DATES	

SPECIAL GRADING
ATLANTA BELTLINE NORTHEAST TRAIL
PIEDMONT AVE RAMP SYSTEM

CHECKED:	DATE:	DRAWING No. 18-011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NORTH PIEDMONT AVE RAMP SYSTEM PROFILE

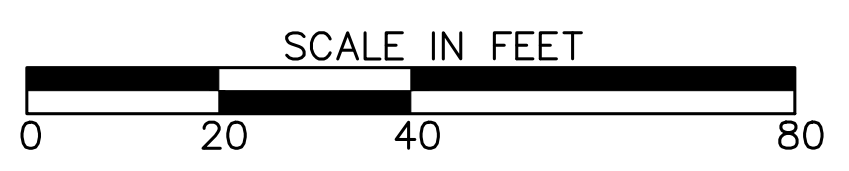
PROJECT NO.
SECTION NO.
DATE

PROJECT NO.
SECTION NO.
DATE

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
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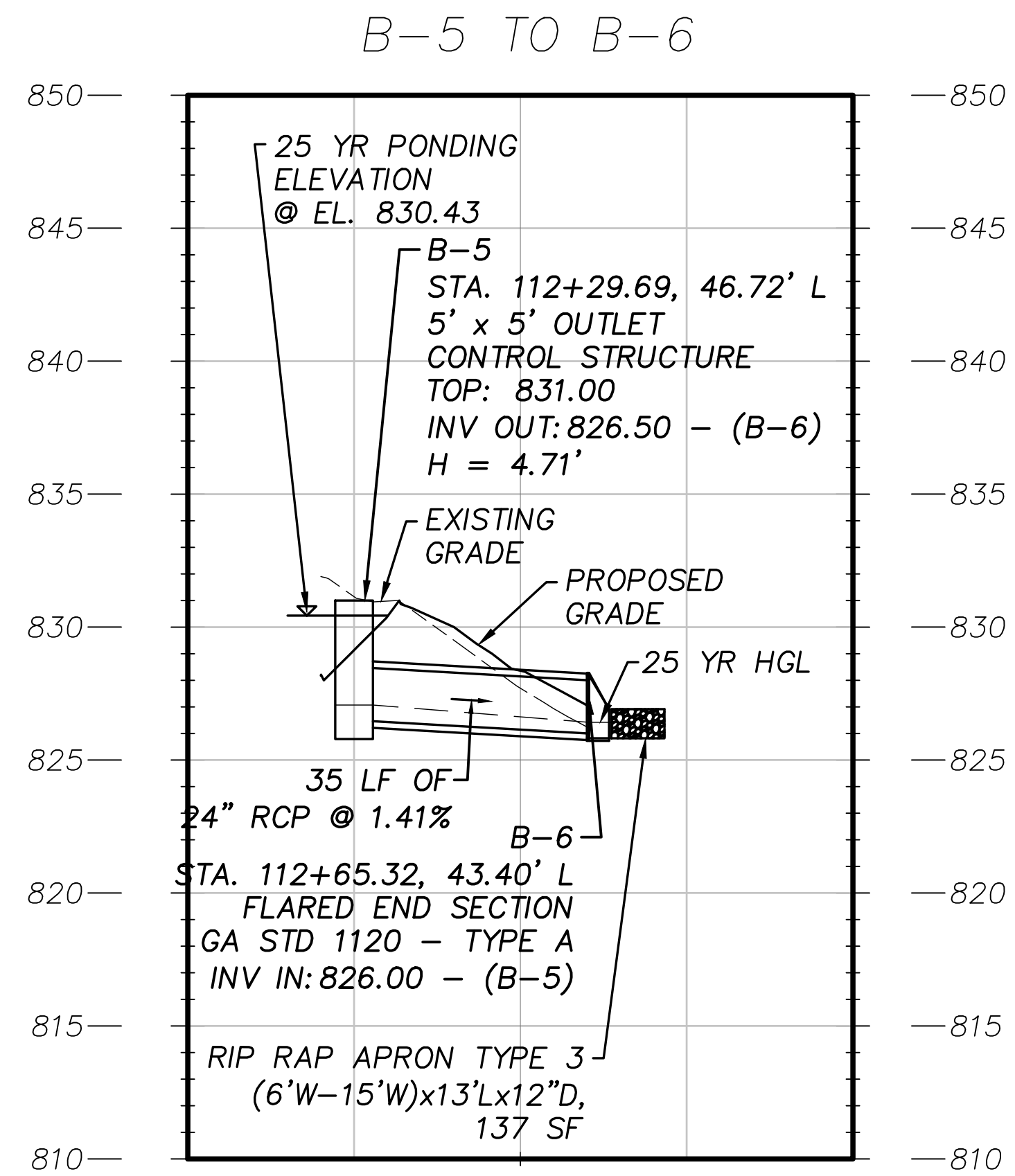
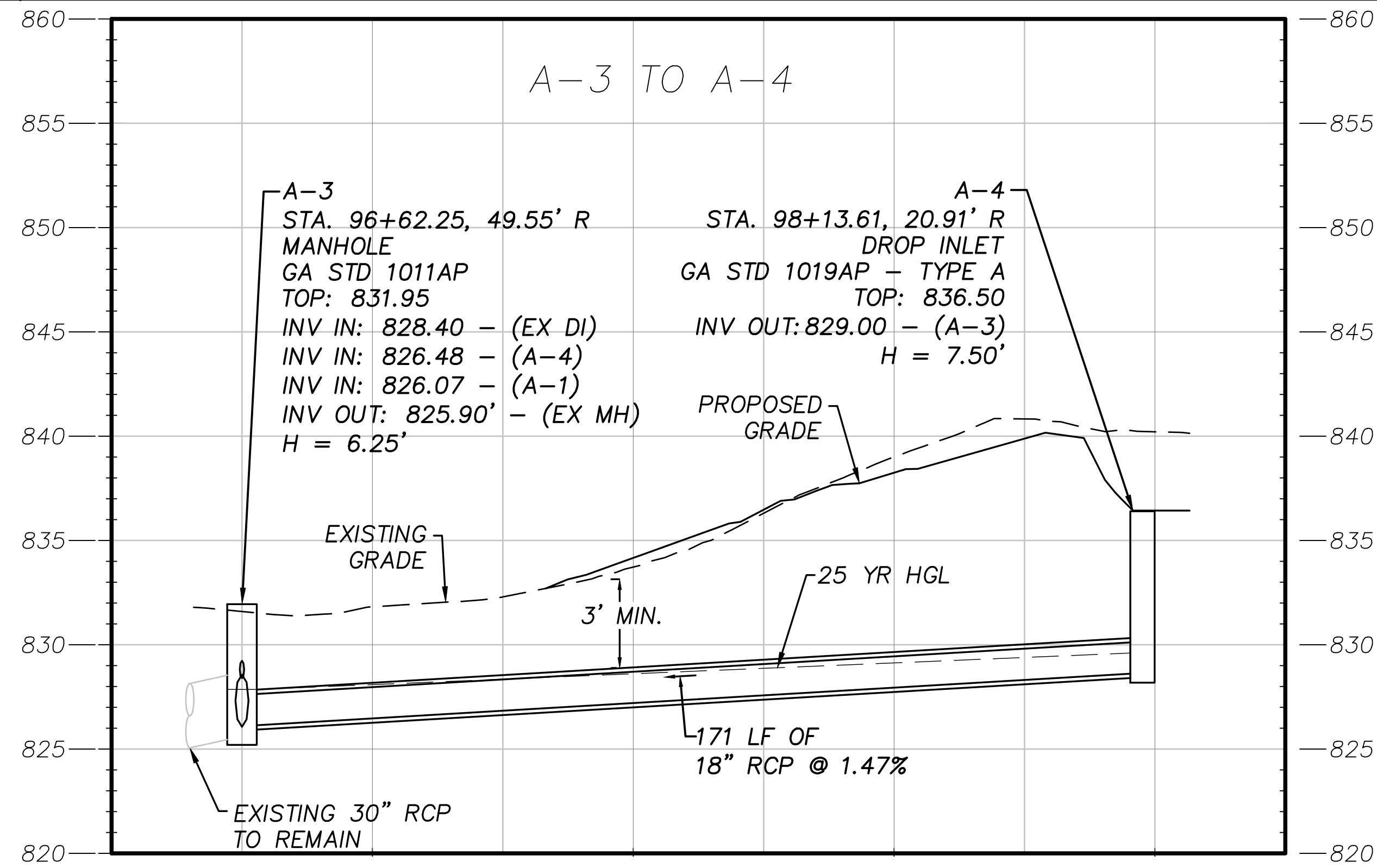
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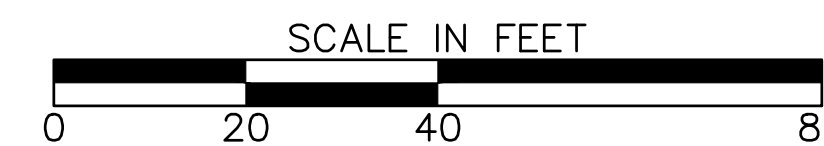
REVISION DATES	

SPECIAL GRADING
ATLANTA BELTLINE NORTHEAST TRAIL
PIEDMONT AVE RAMP SYSTEM PROFILE

CHECKED:	DATE:	DRAWING No. 18-012
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



HORIZONTAL SCALE: 1" = 5'
 VERTICAL SCALE:



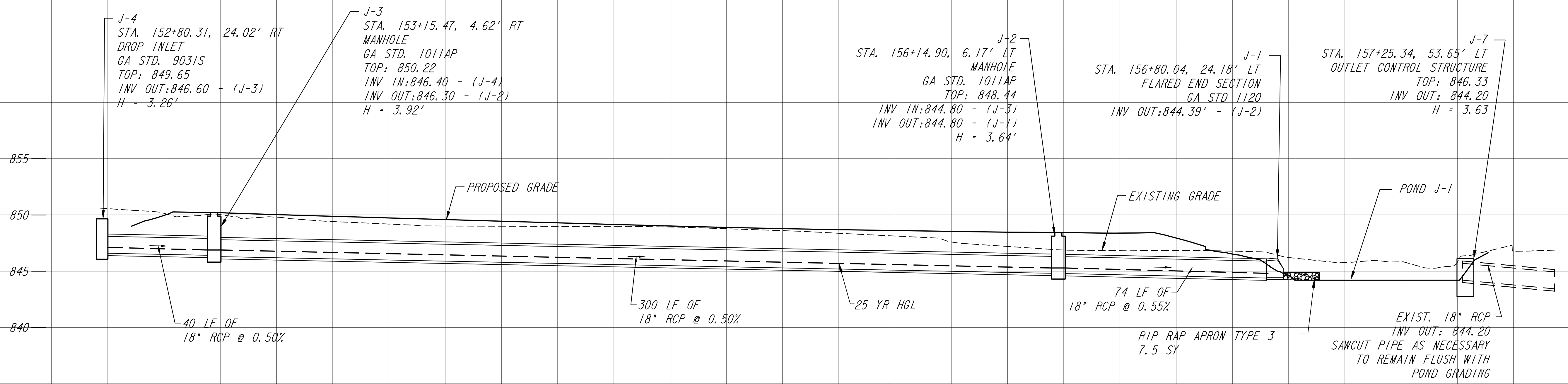
REVISION DATES

NO.	DATE	DESCRIPTION

STORM SEWER PROFILES
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	22-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

J-4 TO J-1



J-4
 STA. 152+80.31, 24.02' RT
 DROP INLET
 GA STD. 903/S
 TOP: 849.65
 INV OUT: 846.60 - (J-3)
 H = 3.26'

J-3
 STA. 153+15.47, 4.62' RT
 MANHOLE
 GA STD. 1011AP
 TOP: 850.22
 INV IN: 846.40 - (J-4)
 INV OUT: 846.30 - (J-2)
 H = 3.92'

J-2
 STA. 156+14.90, 6.17' LT
 MANHOLE
 GA STD. 1011AP
 TOP: 848.44
 INV IN: 844.80 - (J-3)
 INV OUT: 844.80 - (J-1)
 H = 3.64'

J-1
 STA. 156+80.04, 24.18' LT
 FLARED END SECTION
 GA STD 1120
 INV OUT: 844.39' - (J-2)

J-7
 STA. 157+25.34, 53.65' LT
 OUTLET CONTROL STRUCTURE
 TOP: 846.33
 INV OUT: 844.20
 H = 3.63

40 LF OF
 18" RCP @ 0.50%

300 LF OF
 18" RCP @ 0.50%

25 YR HGL

74 LF OF
 18" RCP @ 0.55%

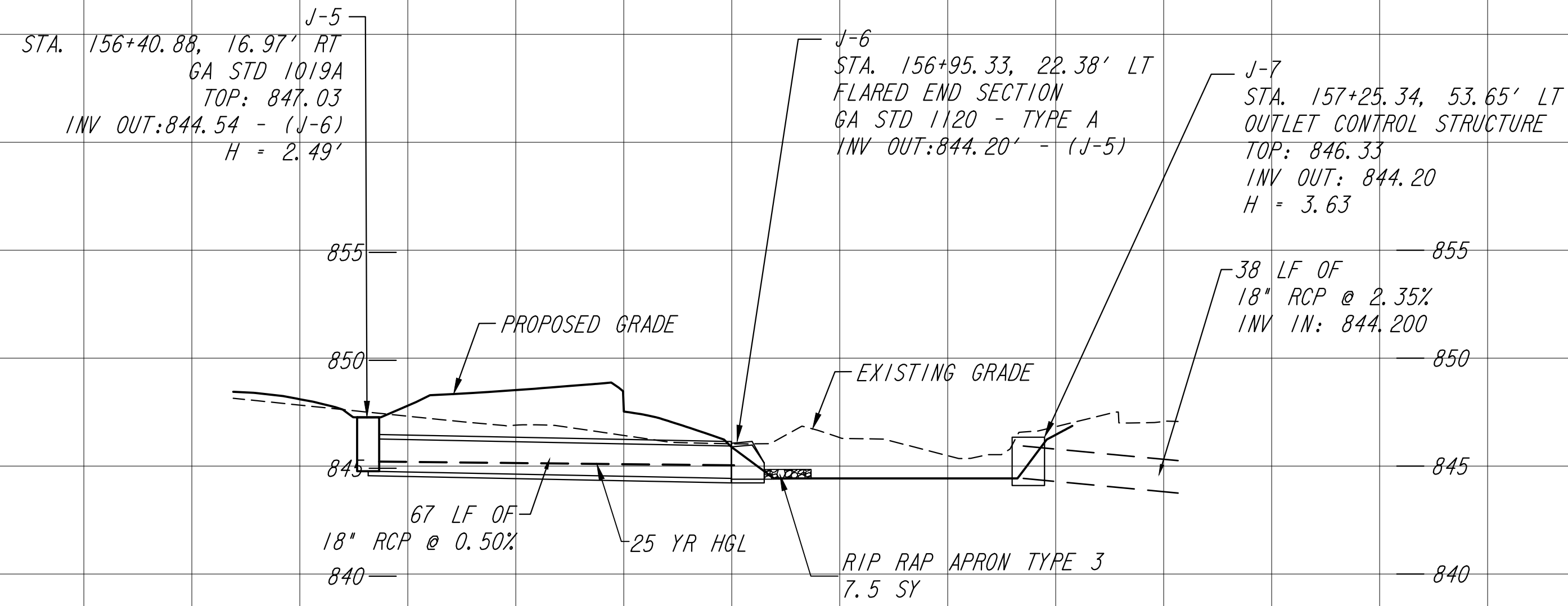
RIP RAP APRON TYPE 3
 7.5 SY

EXIST. 18" RCP
 INV OUT: 844.20
 SAWCUT PIPE AS NECESSARY
 TO REMAIN FLUSH WITH
 POND GRADING

REVISION DATES		DRAWING No.	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	22-002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

DRAINAGE PROFILES
 ATLANTA BELTLINE NORTHEAST TRAIL

J-5 TO J-6



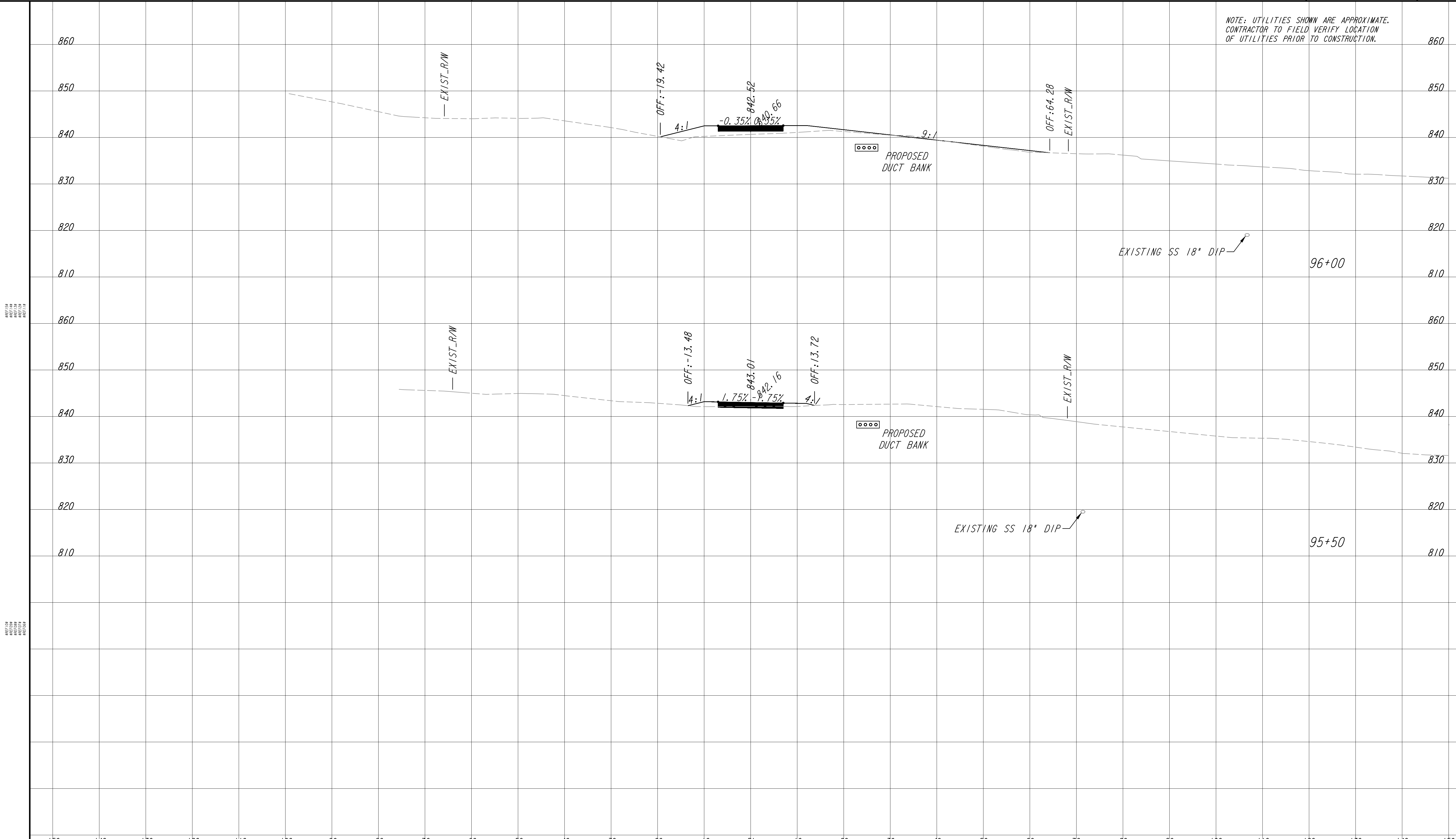
REVISION

REVISION

REVISION DATES	

DRAINAGE PROFILES			
ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			22-003

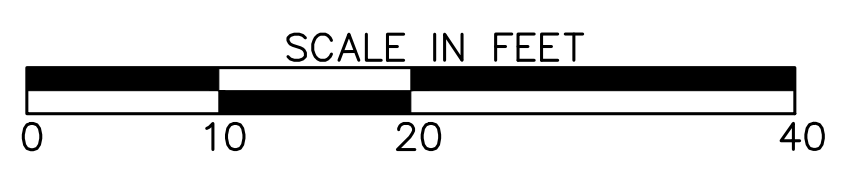
NOTE: UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
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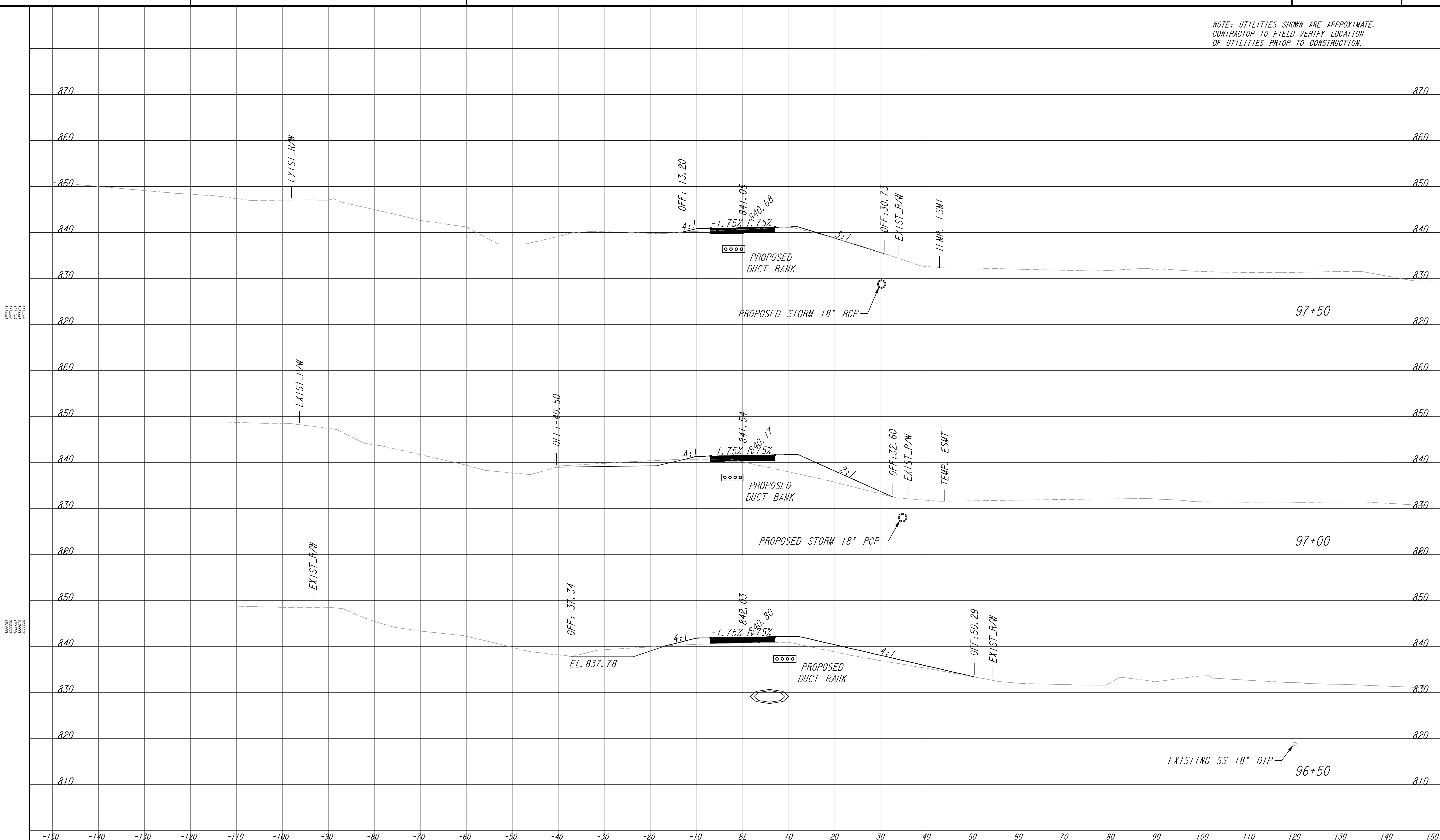
REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. **23-001**

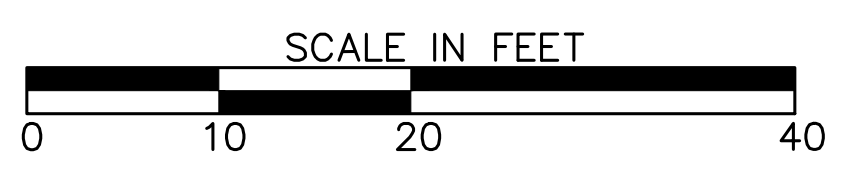
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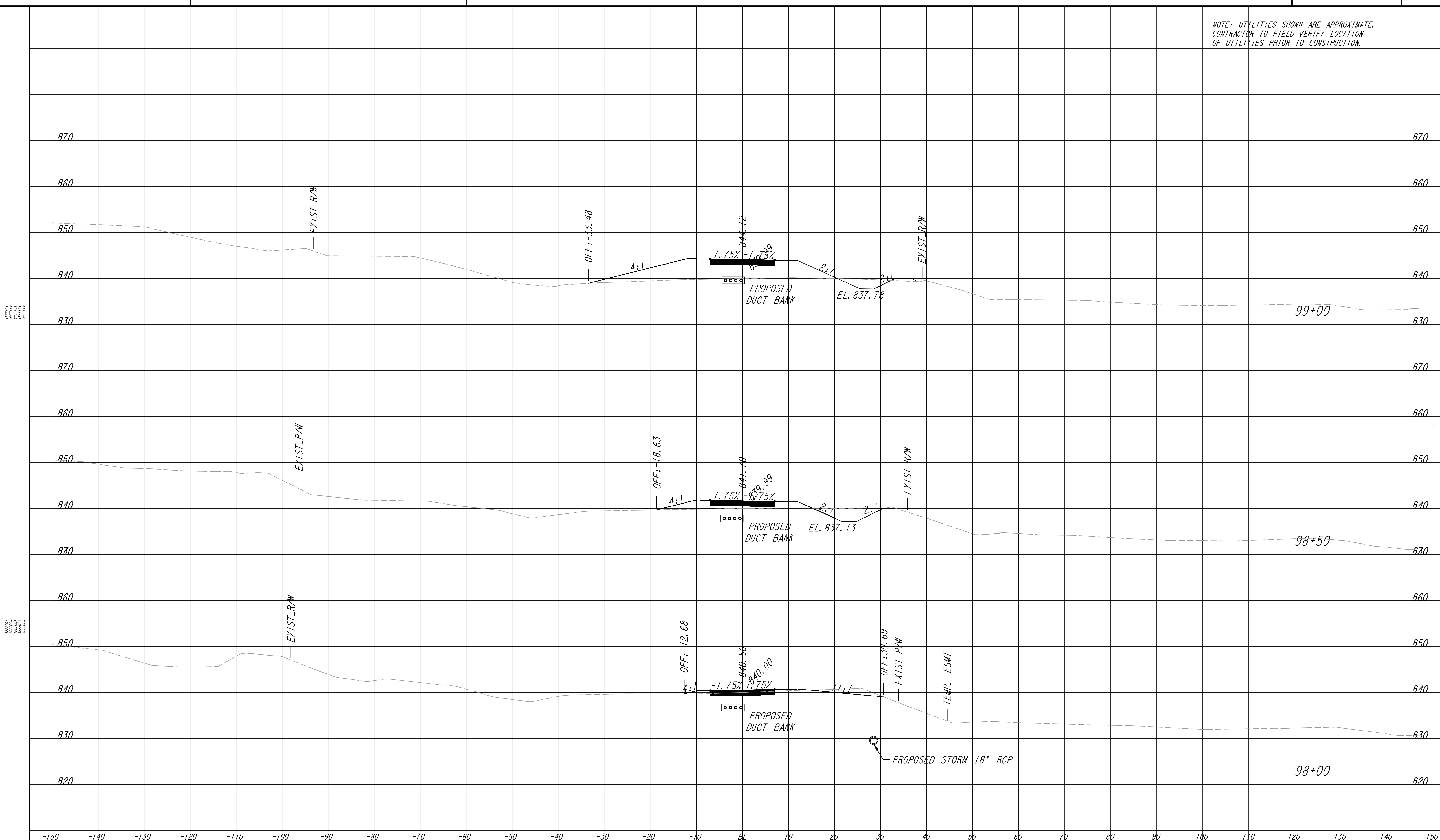


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
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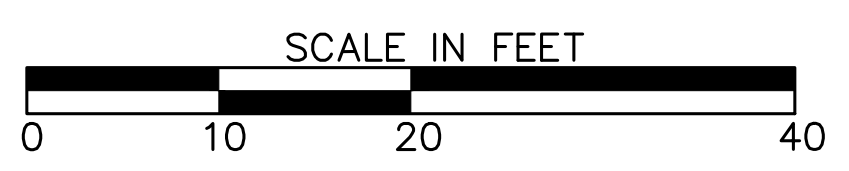
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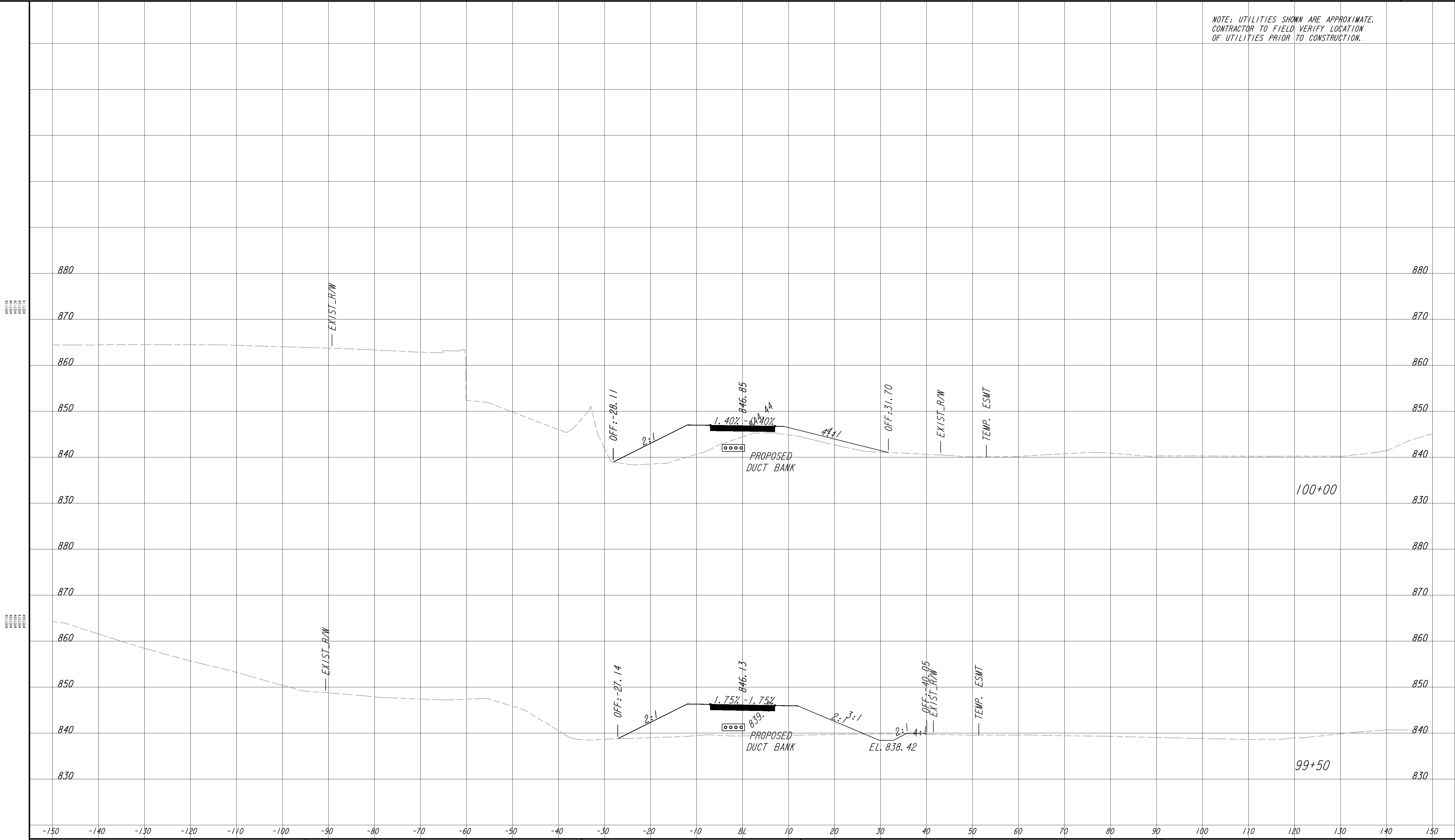


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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VERIFIED:	DATE:	

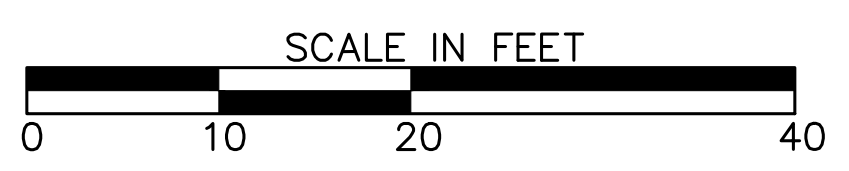
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
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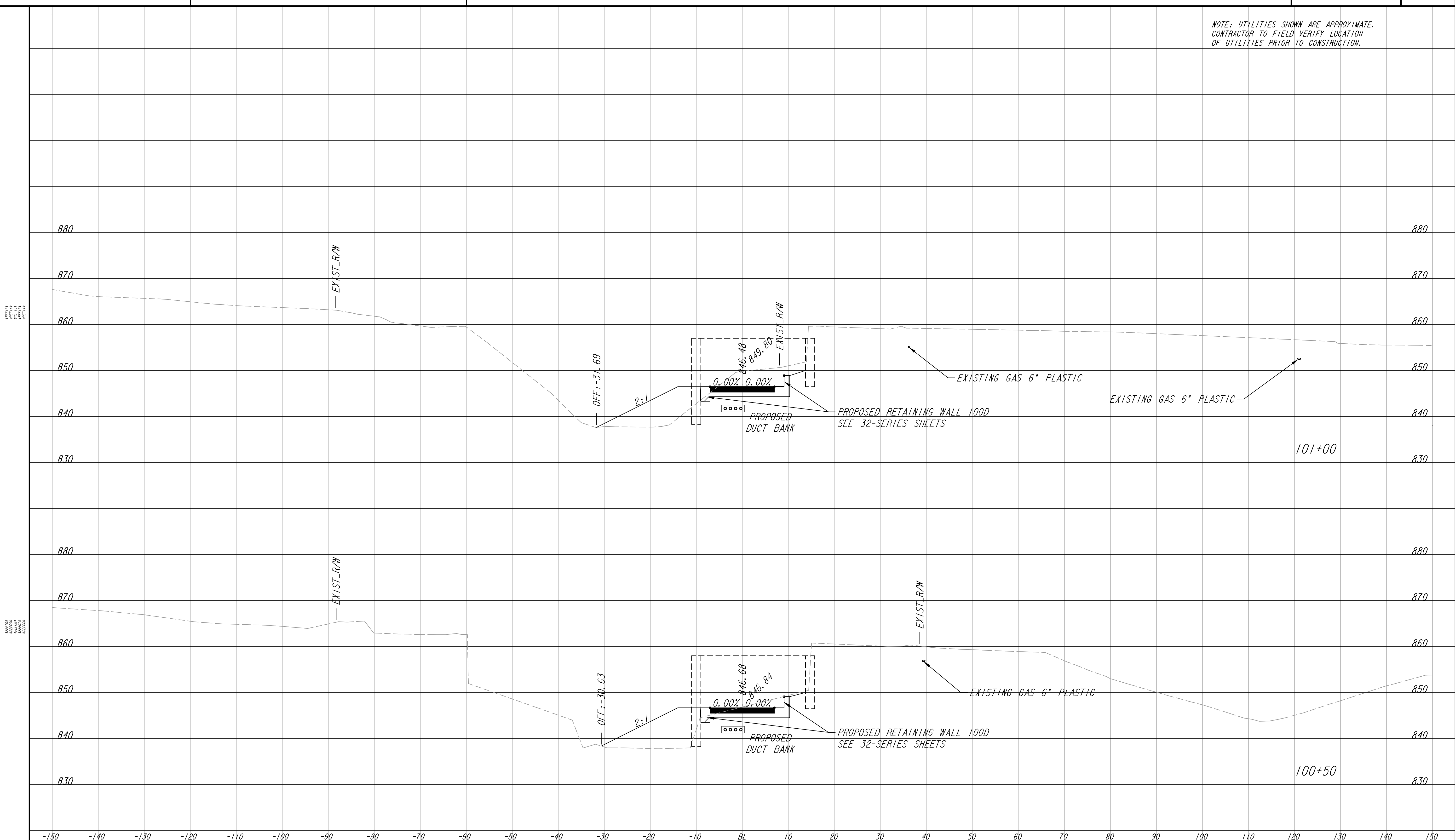


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

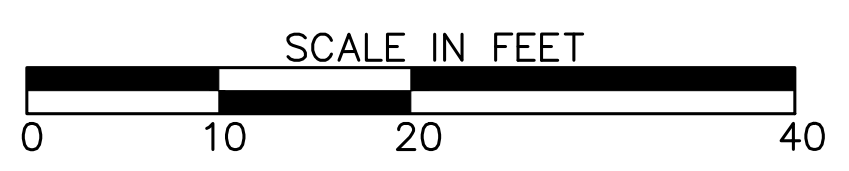
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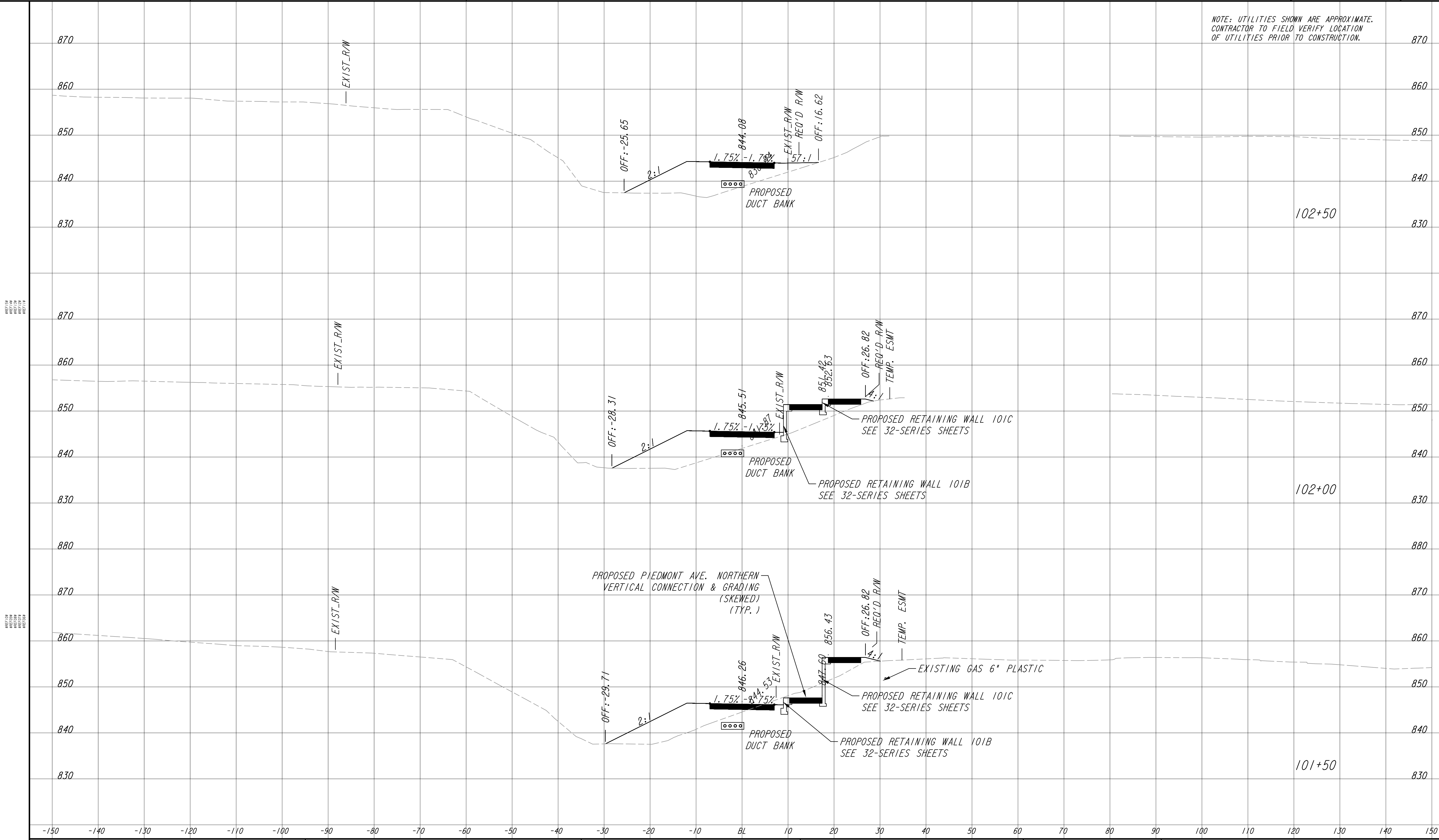


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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VERIFIED:	DATE:	

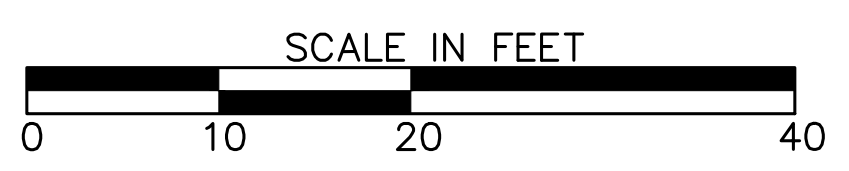
NOTE: UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

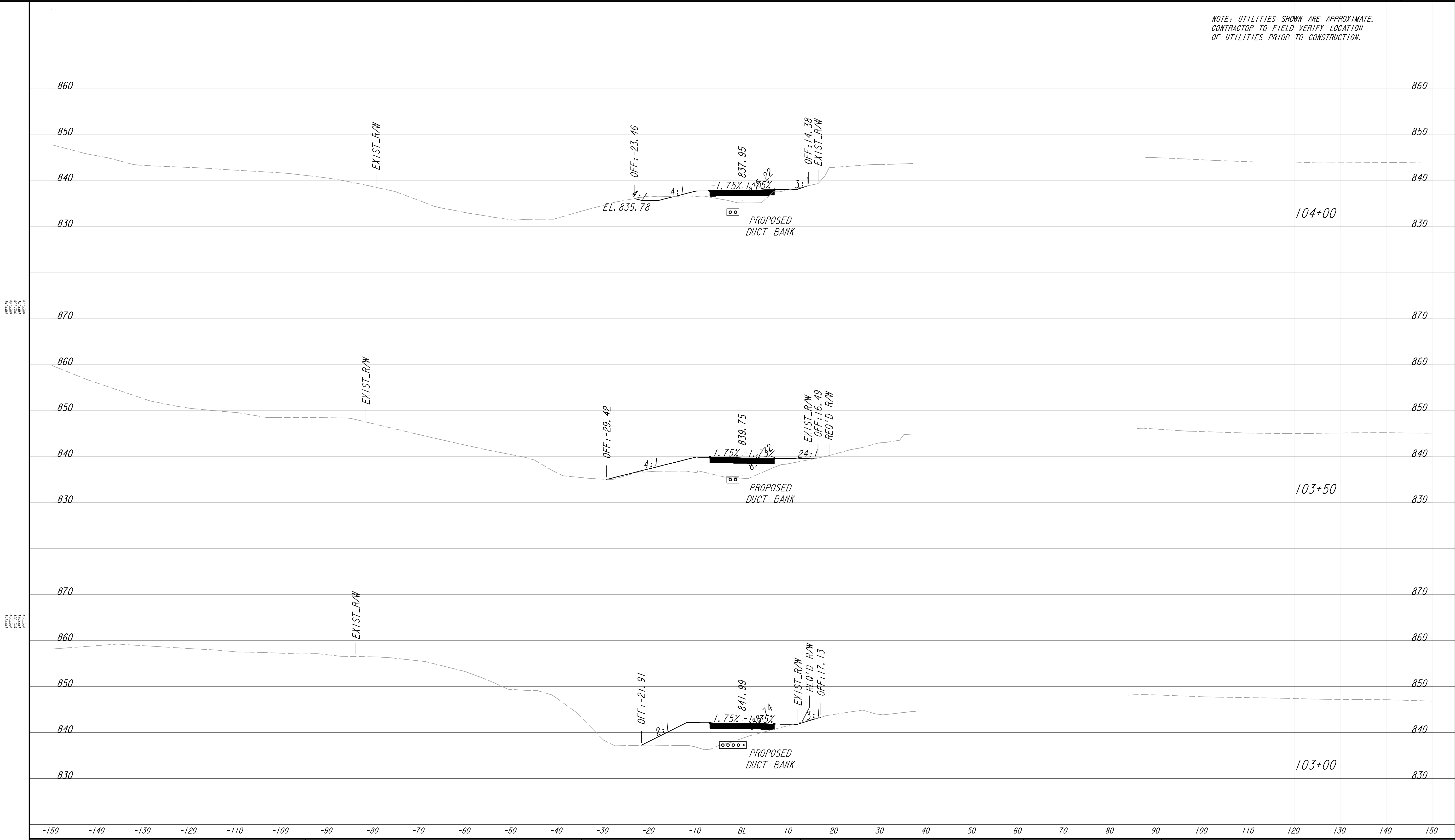


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

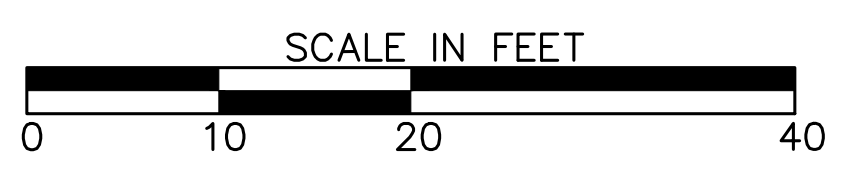
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OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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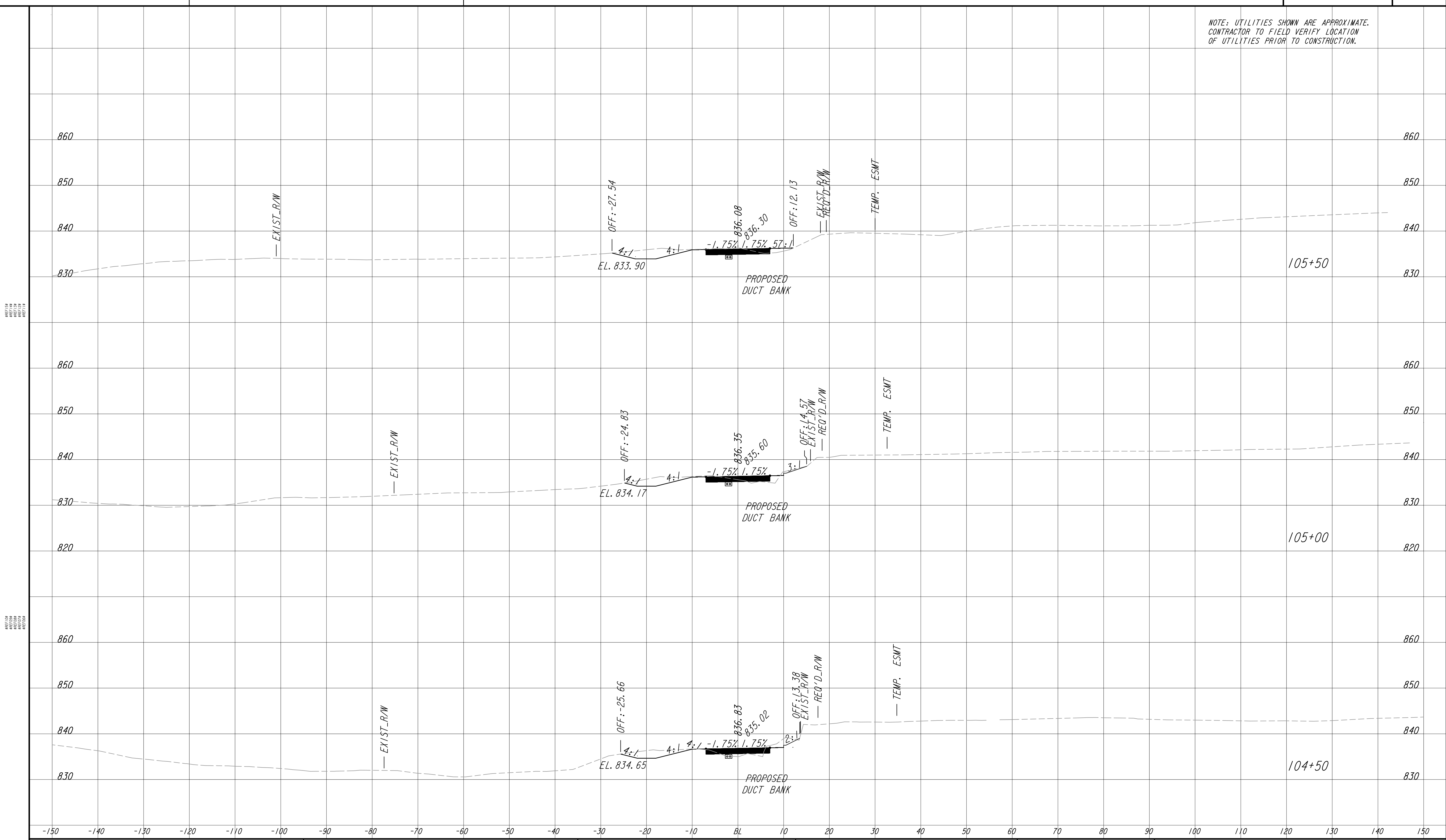


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

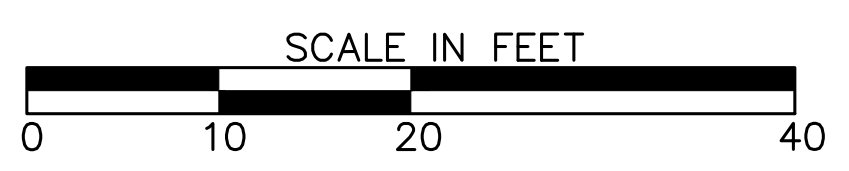
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OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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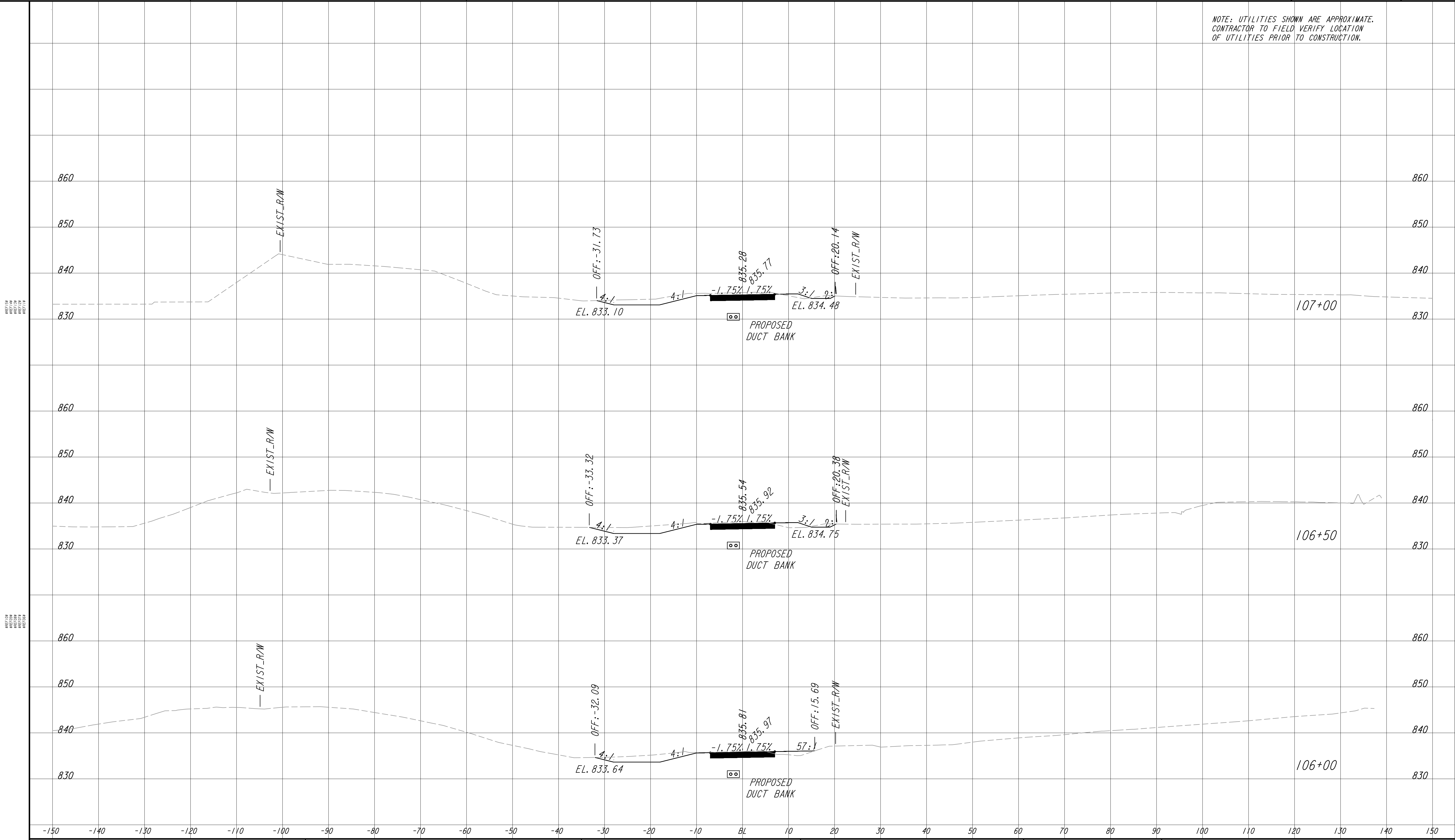


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

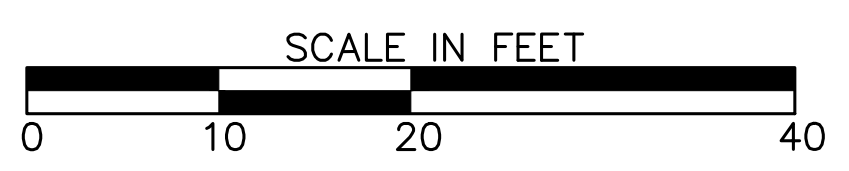
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---E---F---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

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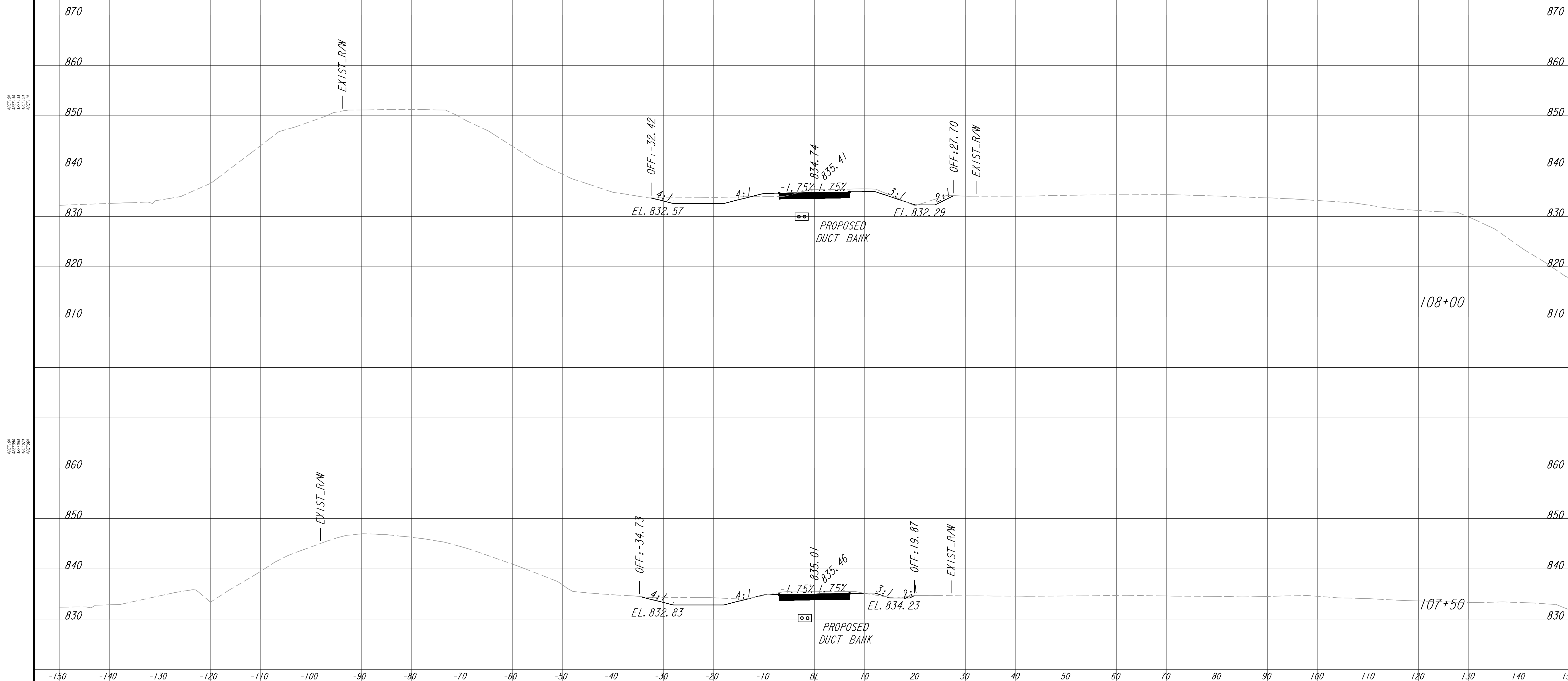


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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CORRECTED:	DATE:	
VERIFIED:	DATE:	

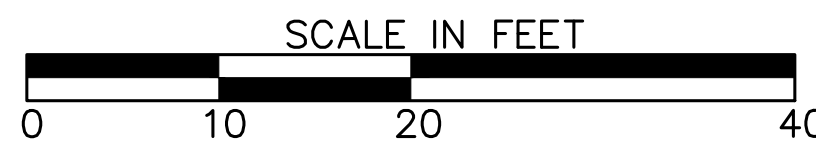
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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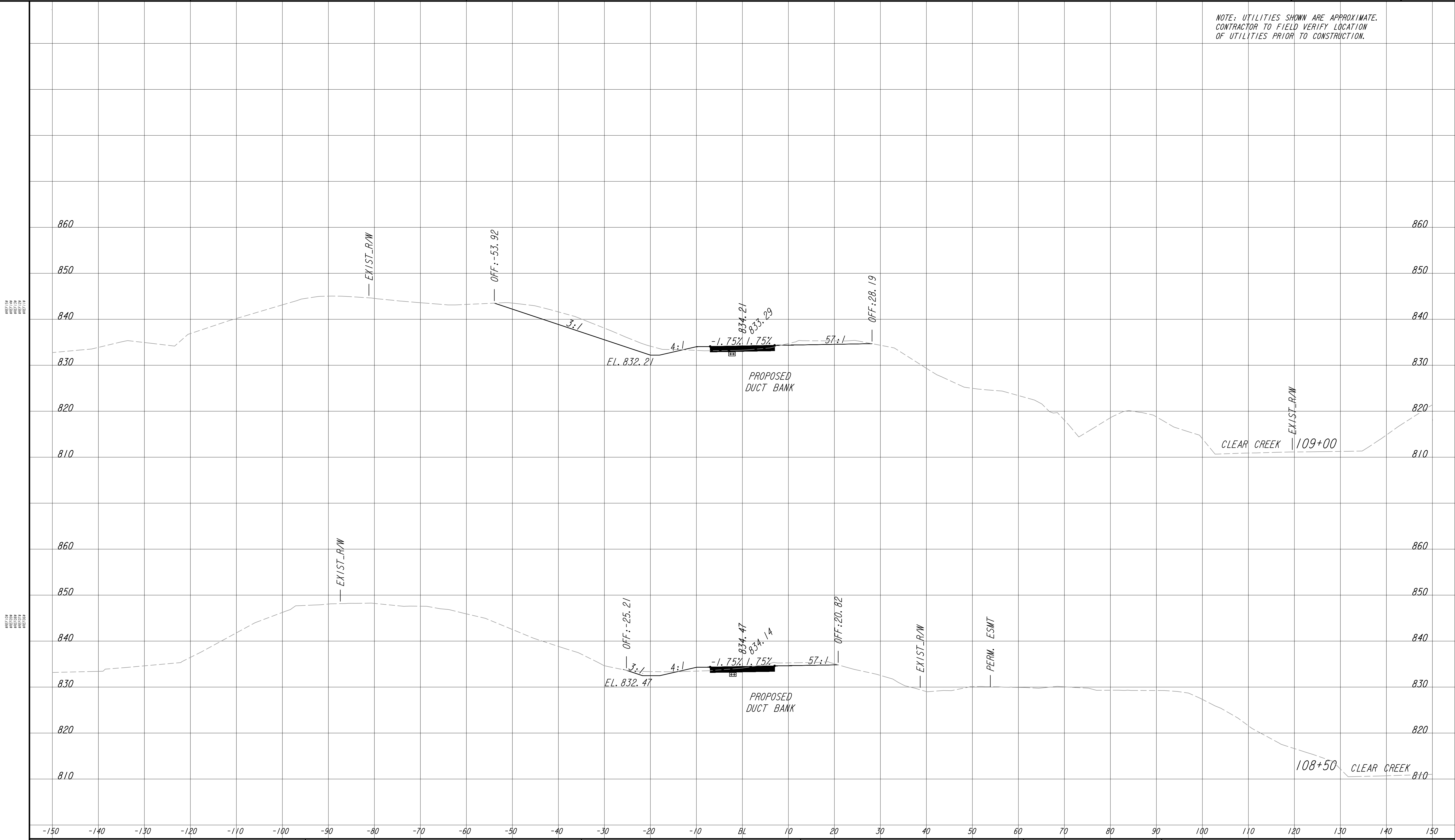


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

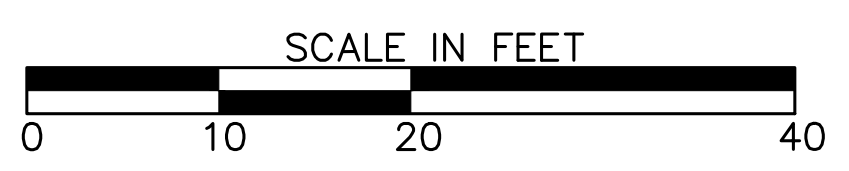
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

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REVISION DATES	

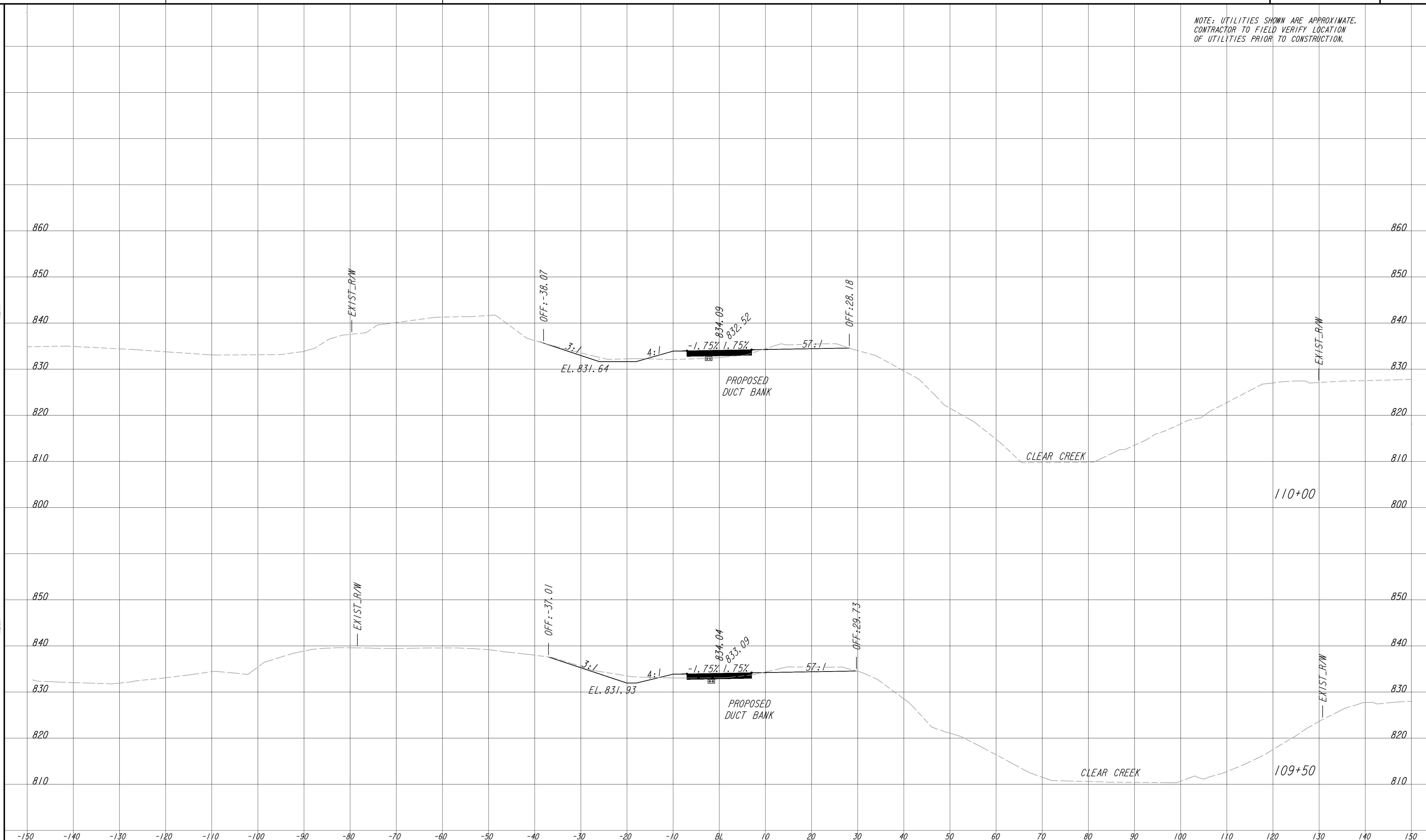
EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE: UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.

REVISION
DATE
BY

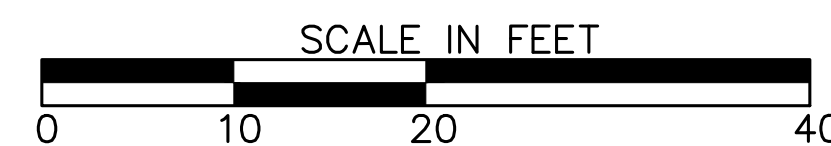
REVISION
DATE
BY



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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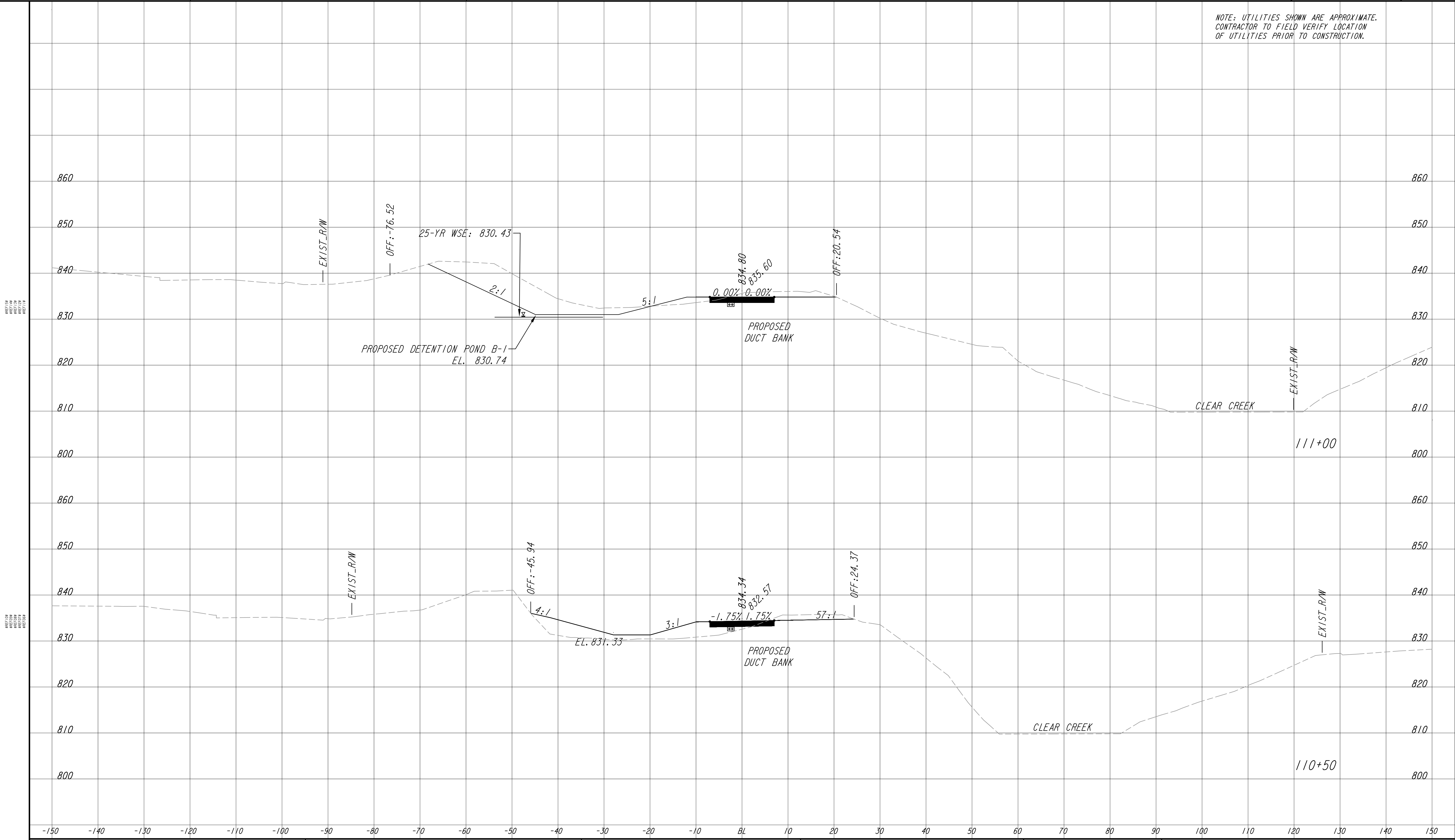
REVISION DATES

NO.	DATE	DESCRIPTION

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

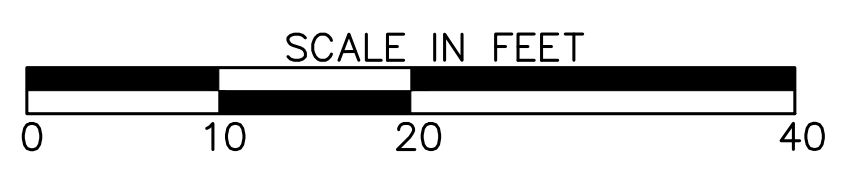
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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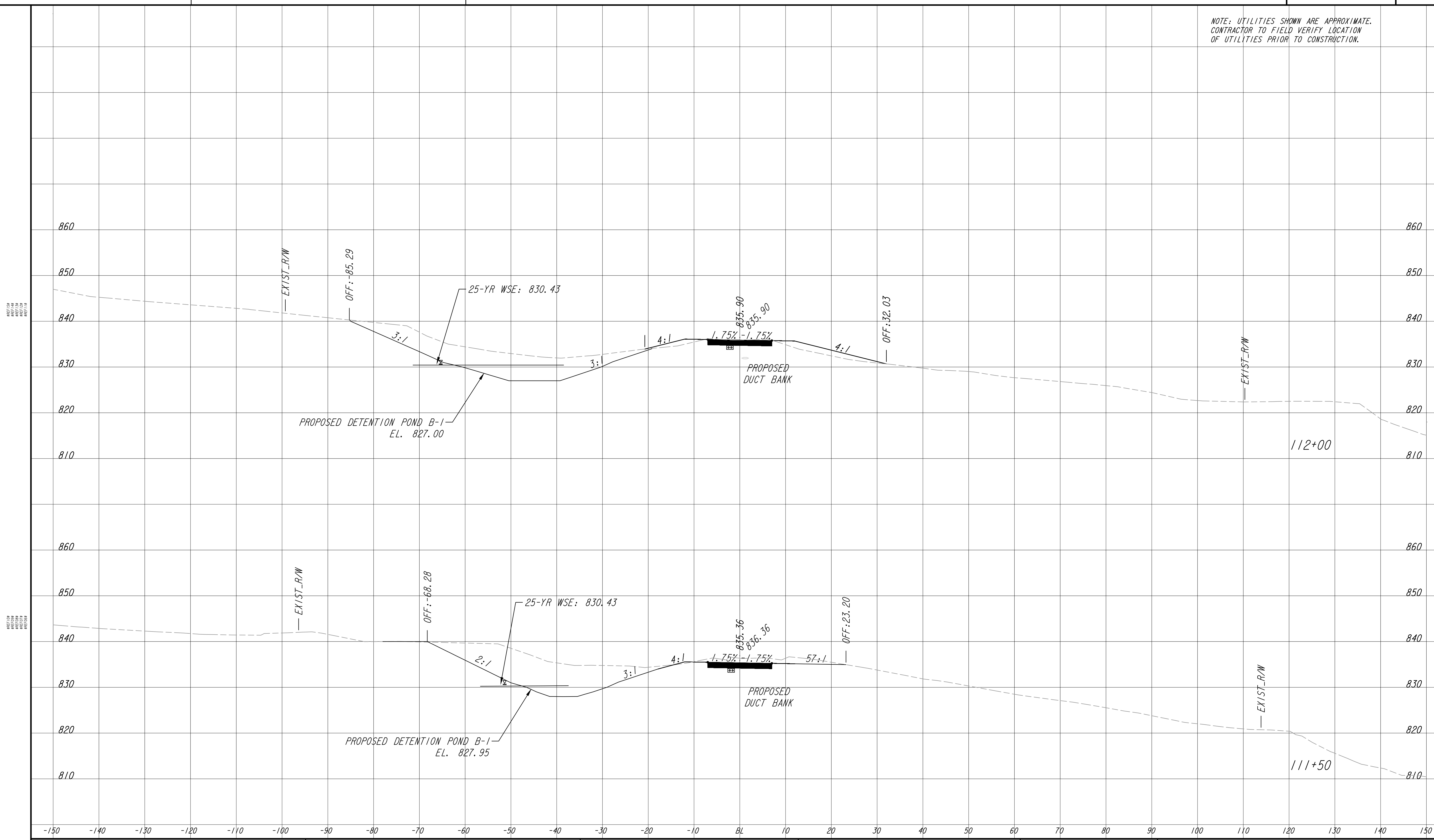


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-013
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

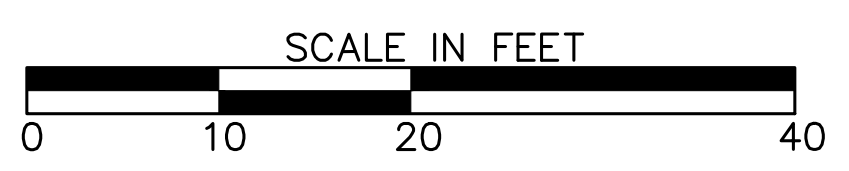
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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ATLANTA, GEORGIA 30308
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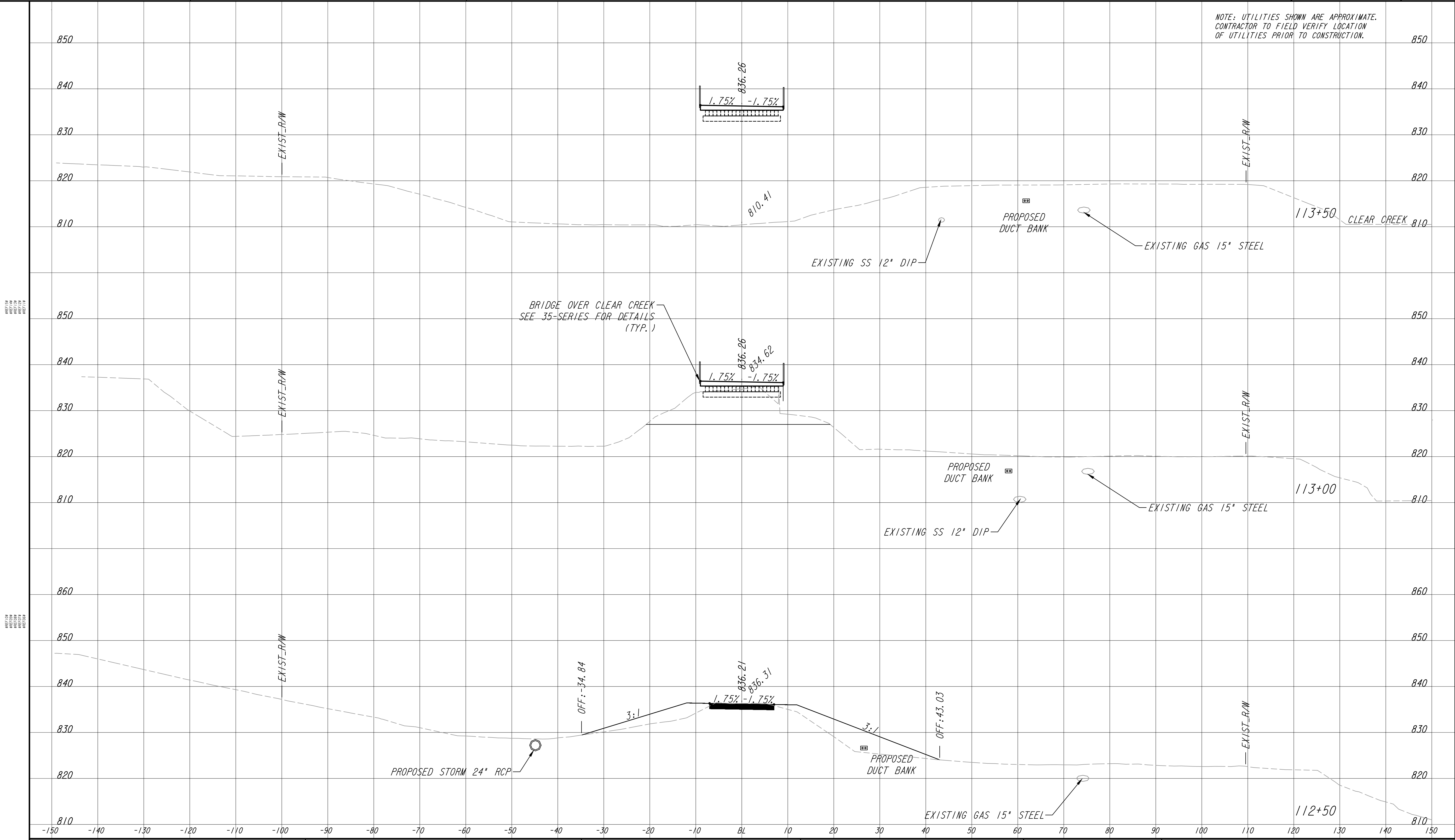


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-014
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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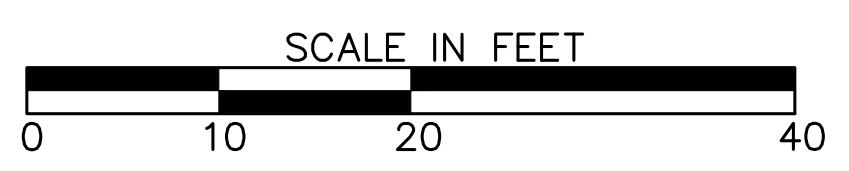


BRIDGE OVER CLEAR CREEK
SEE 35-SERIES FOR DETAILS
(TYP.)

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▧
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▩

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817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
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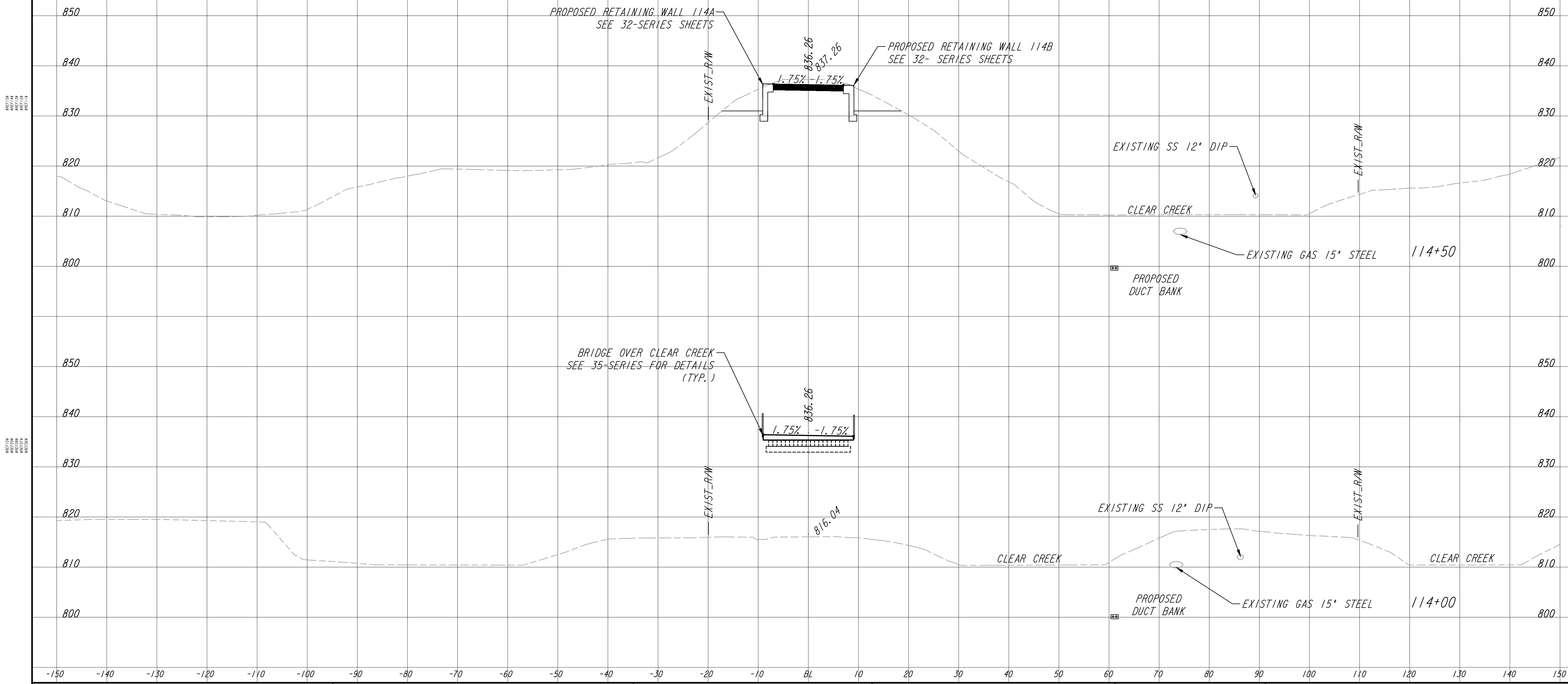


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-015
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

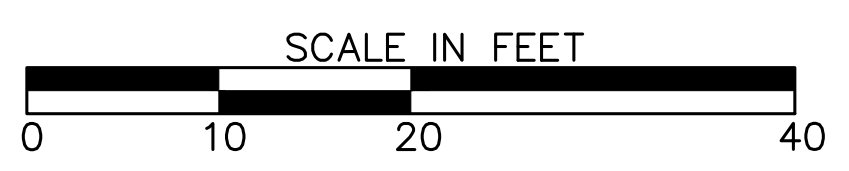
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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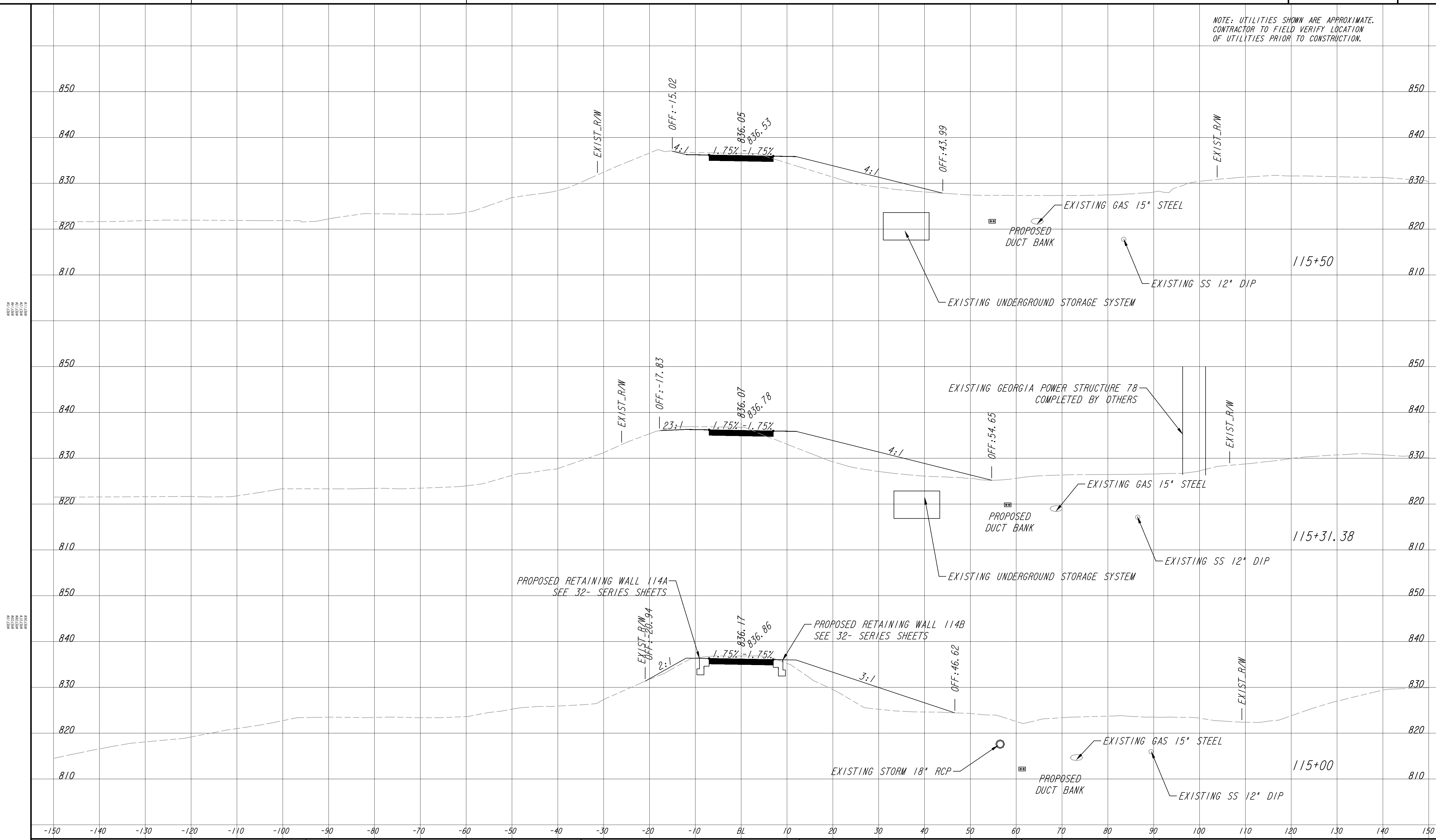


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-016
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

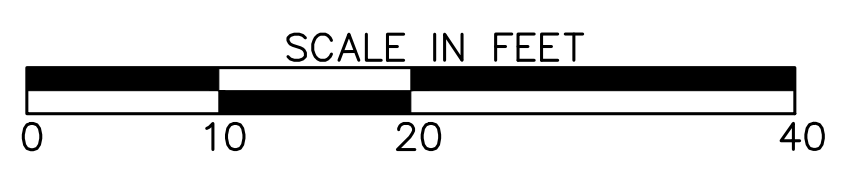
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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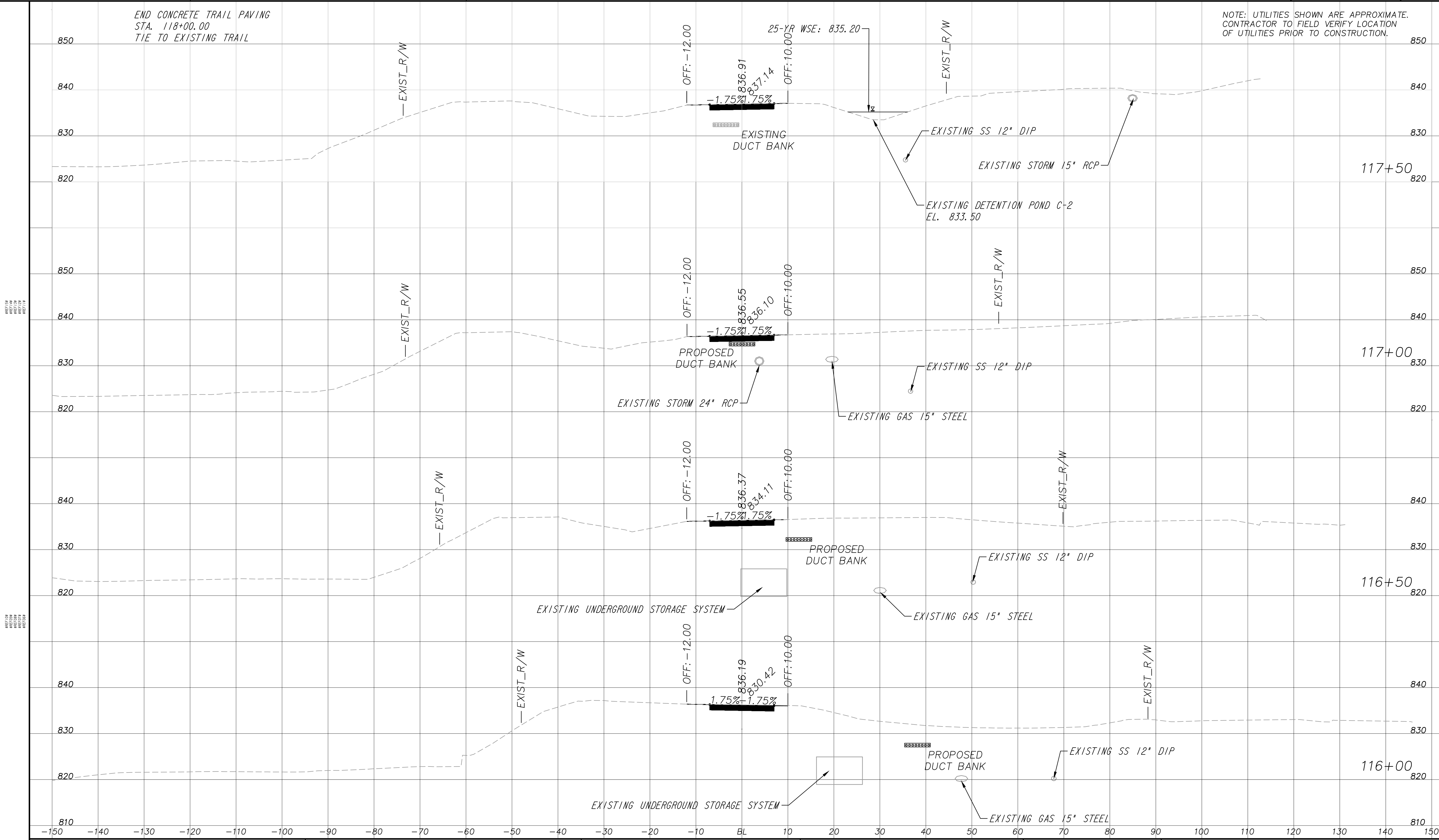
REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-017
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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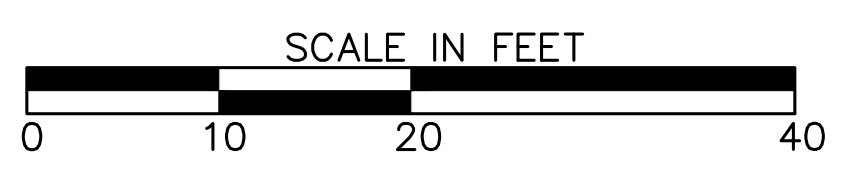
END CONCRETE TRAIL PAVING STA. 118+00.00 TIE TO EXISTING TRAIL



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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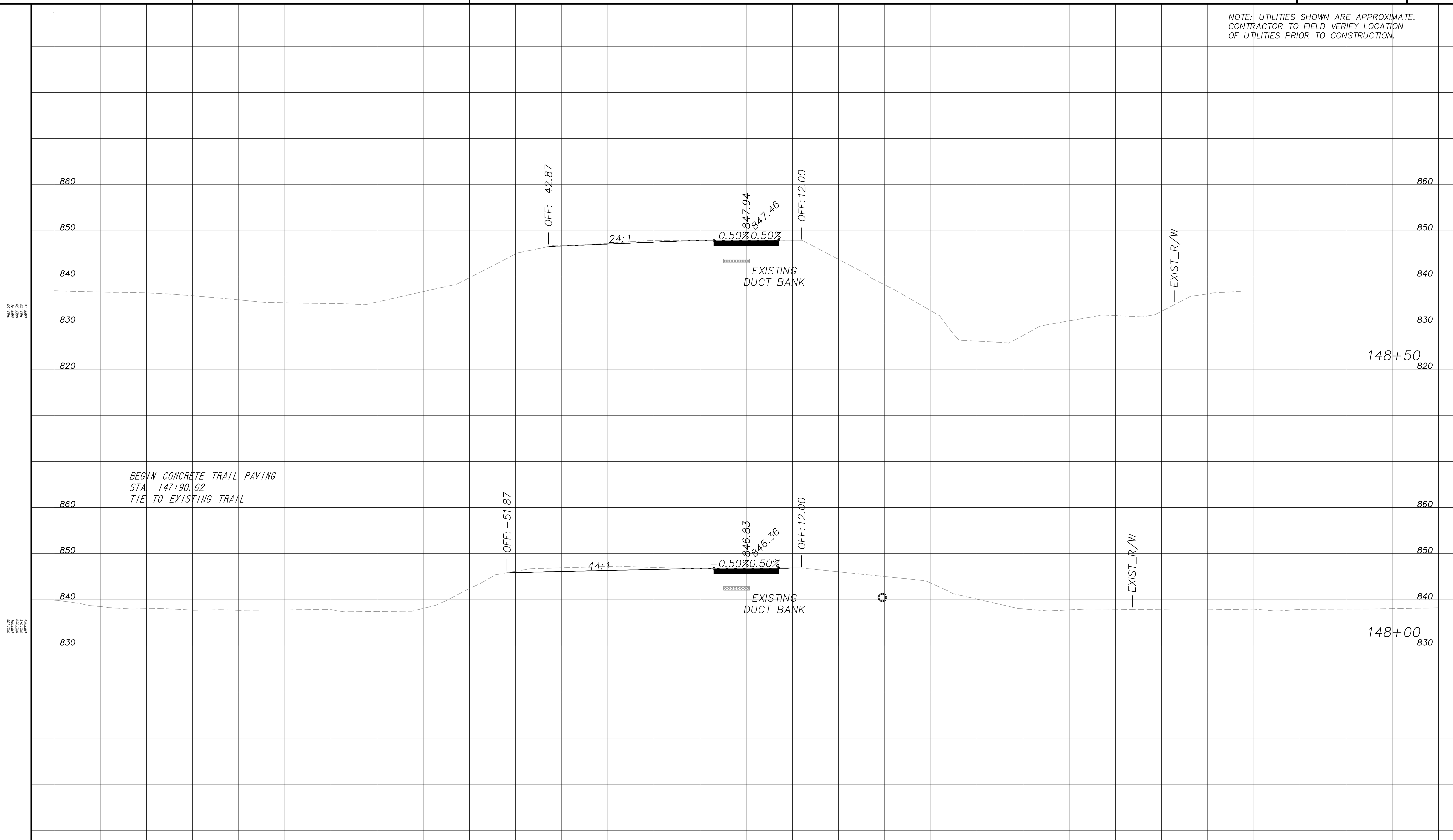


REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-018
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE: UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.



BEGIN CONCRETE TRAIL PAVING STA. 147+90.62 TIE TO EXISTING TRAIL

PROPOSED
EXISTING
PROPERTY
LIMITS

PROPOSED
EXISTING
PROPERTY
LIMITS

PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

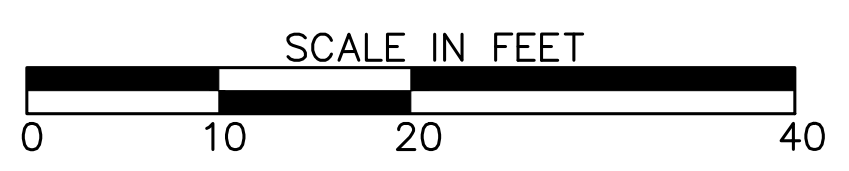
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF SLOPES

TEMPORARY EASEMENT FOR CONST. OF DRIVES

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REVISION DATES	

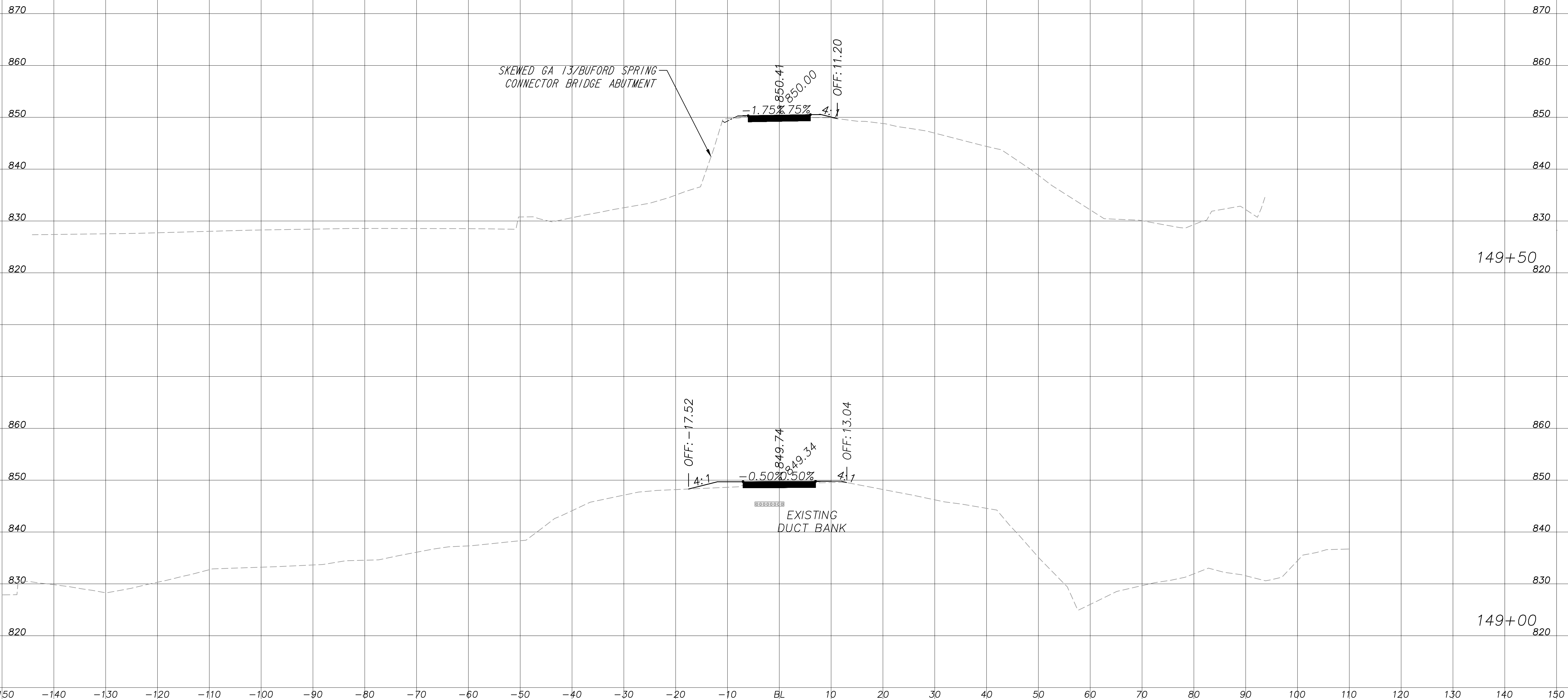
EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-019
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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OF UTILITIES PRIOR TO CONSTRUCTION.

PROPOSED
PROPOSED
PROPOSED
PROPOSED

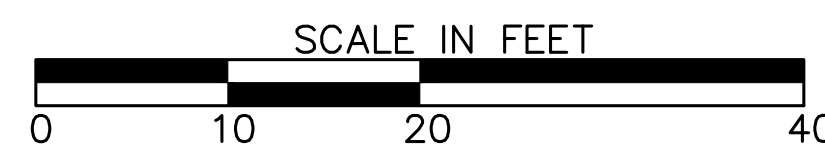
PROPOSED
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PROPOSED



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▧
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▩

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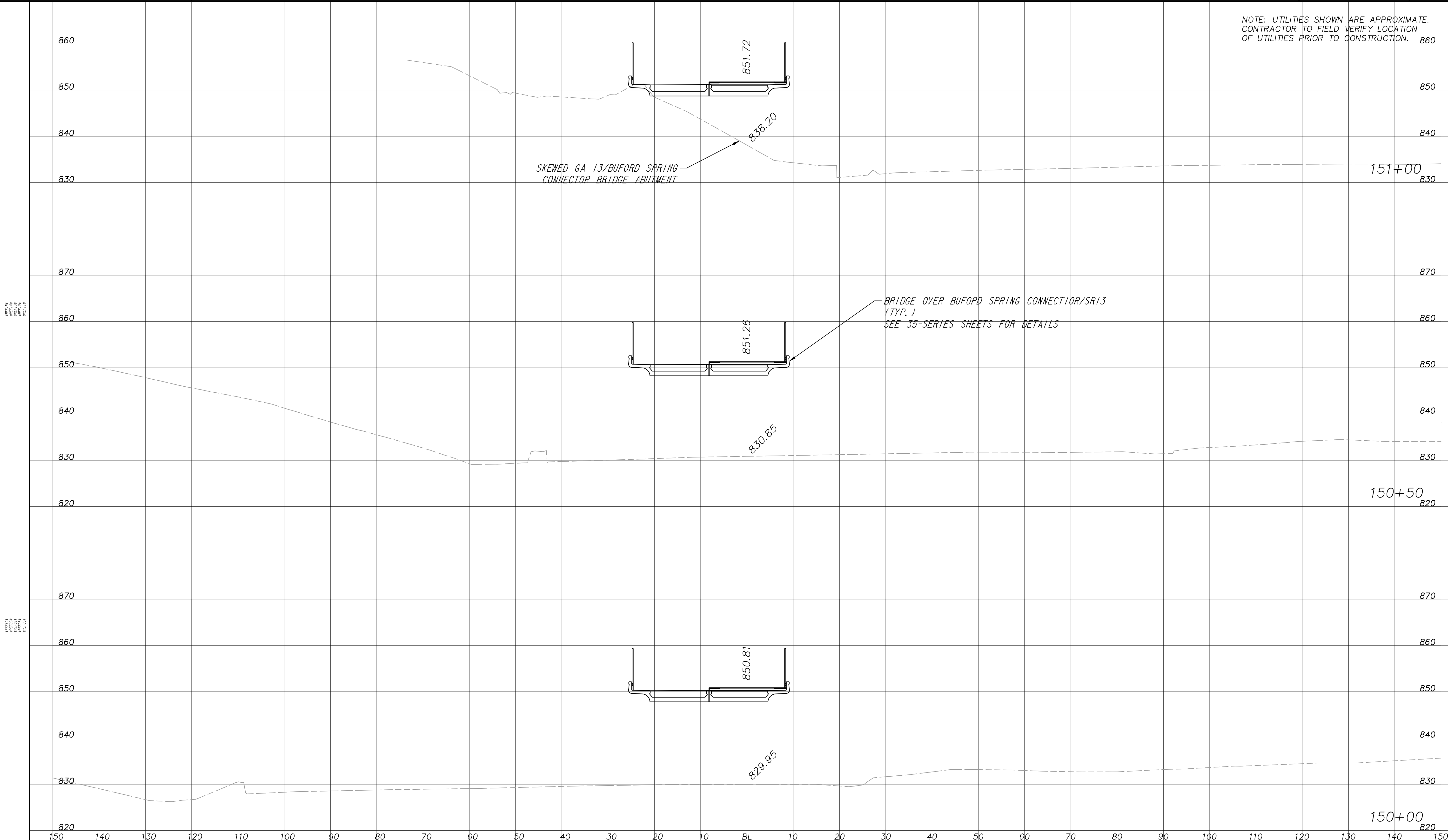
REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

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CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
23-020

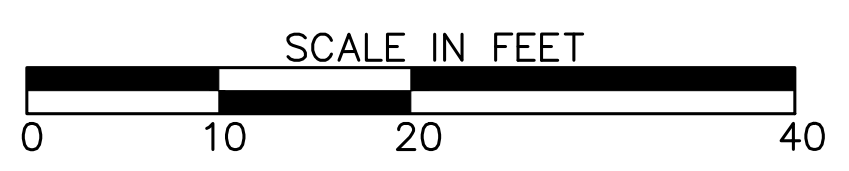
NOTE: UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

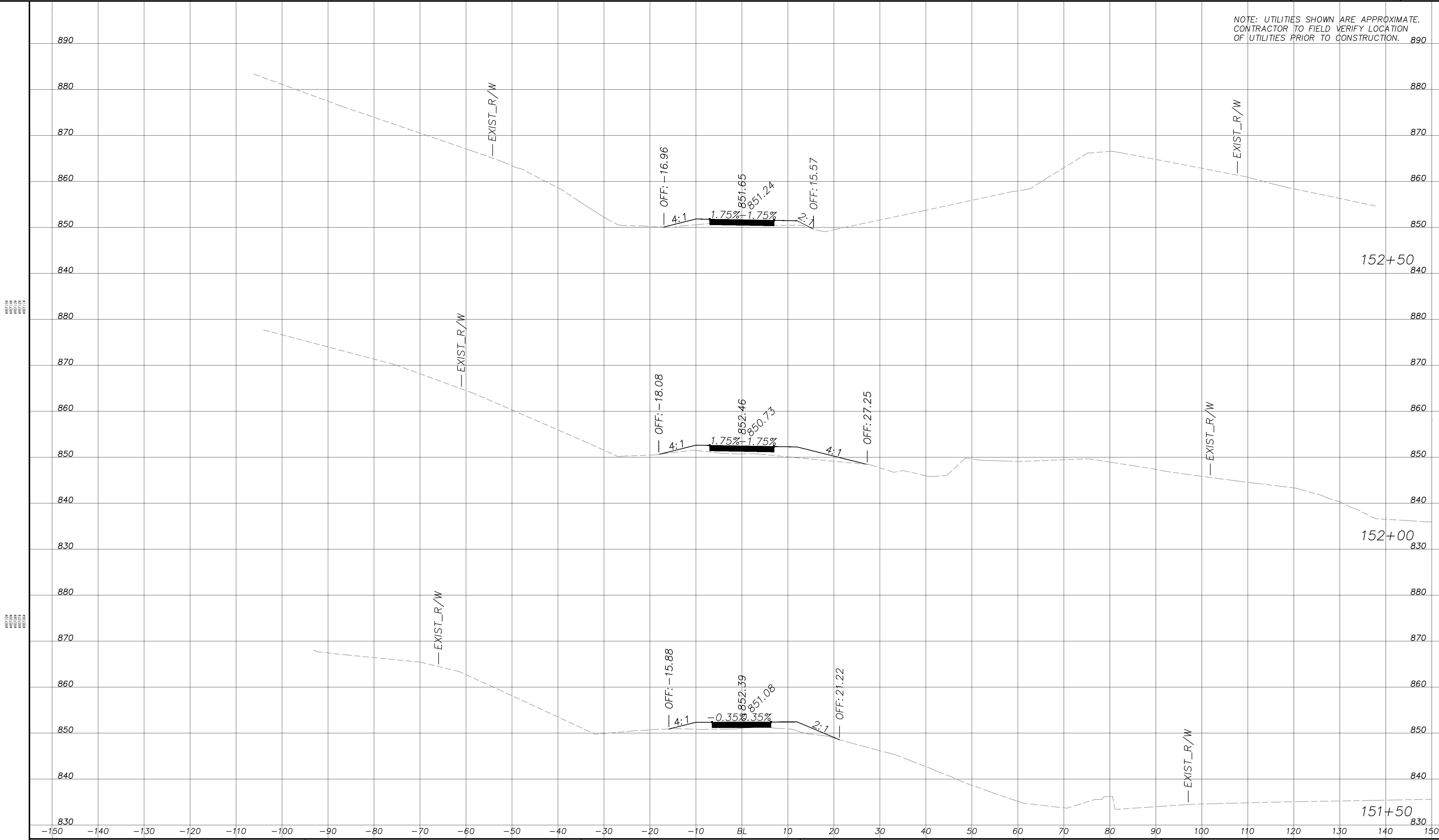


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-021
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

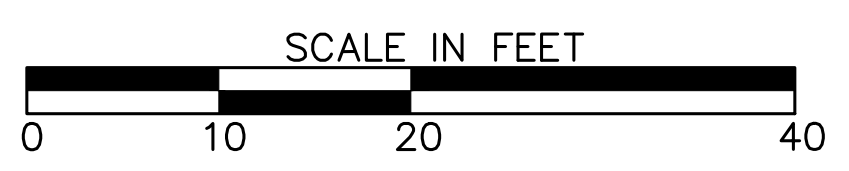
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---E---F---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

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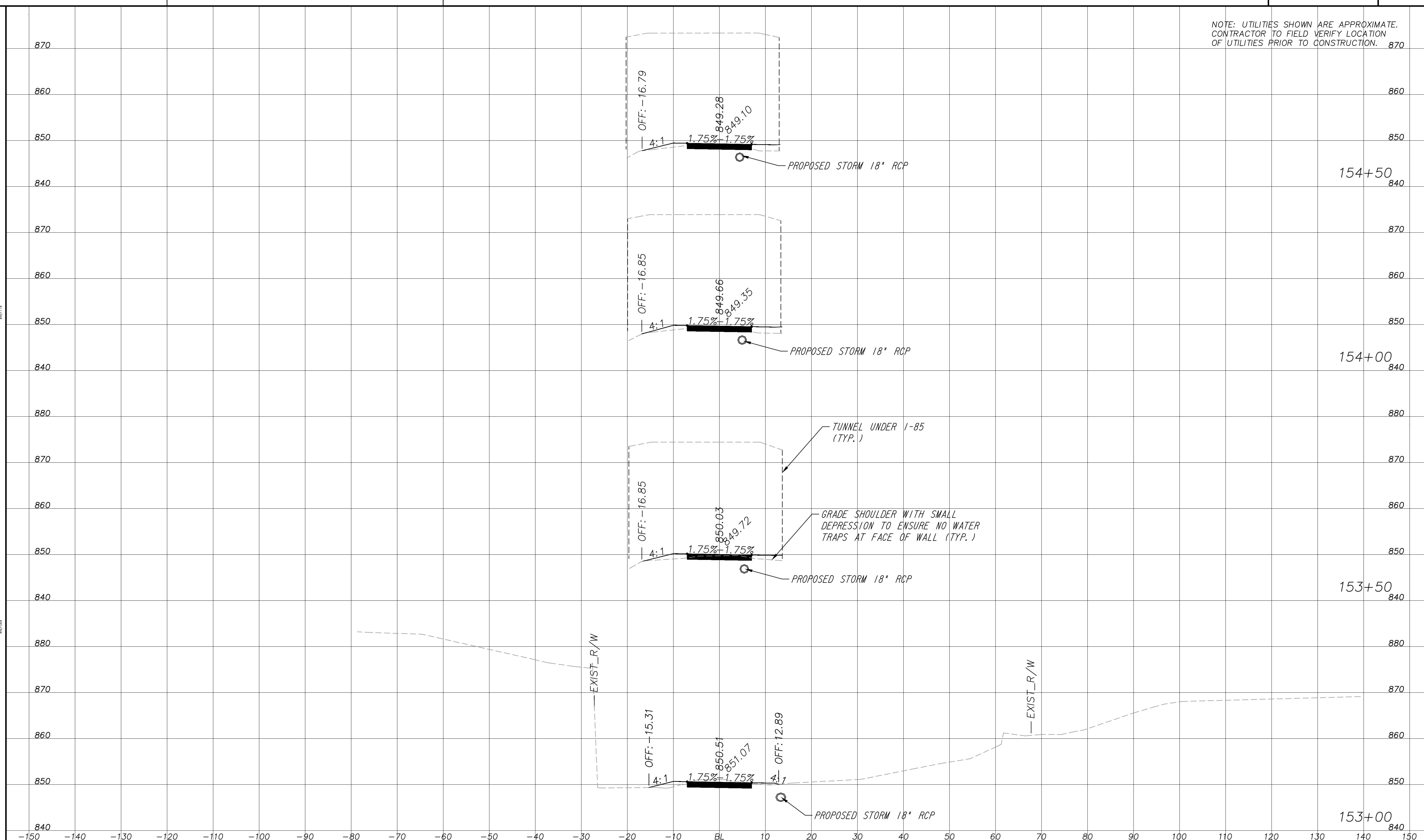
REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. **23-022**

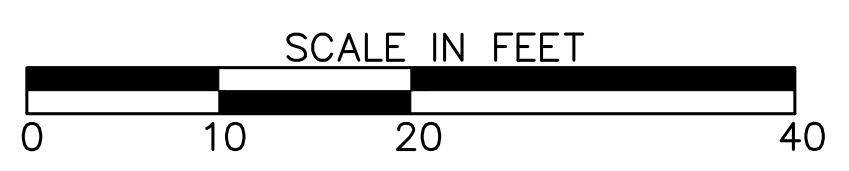
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PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▧
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▩

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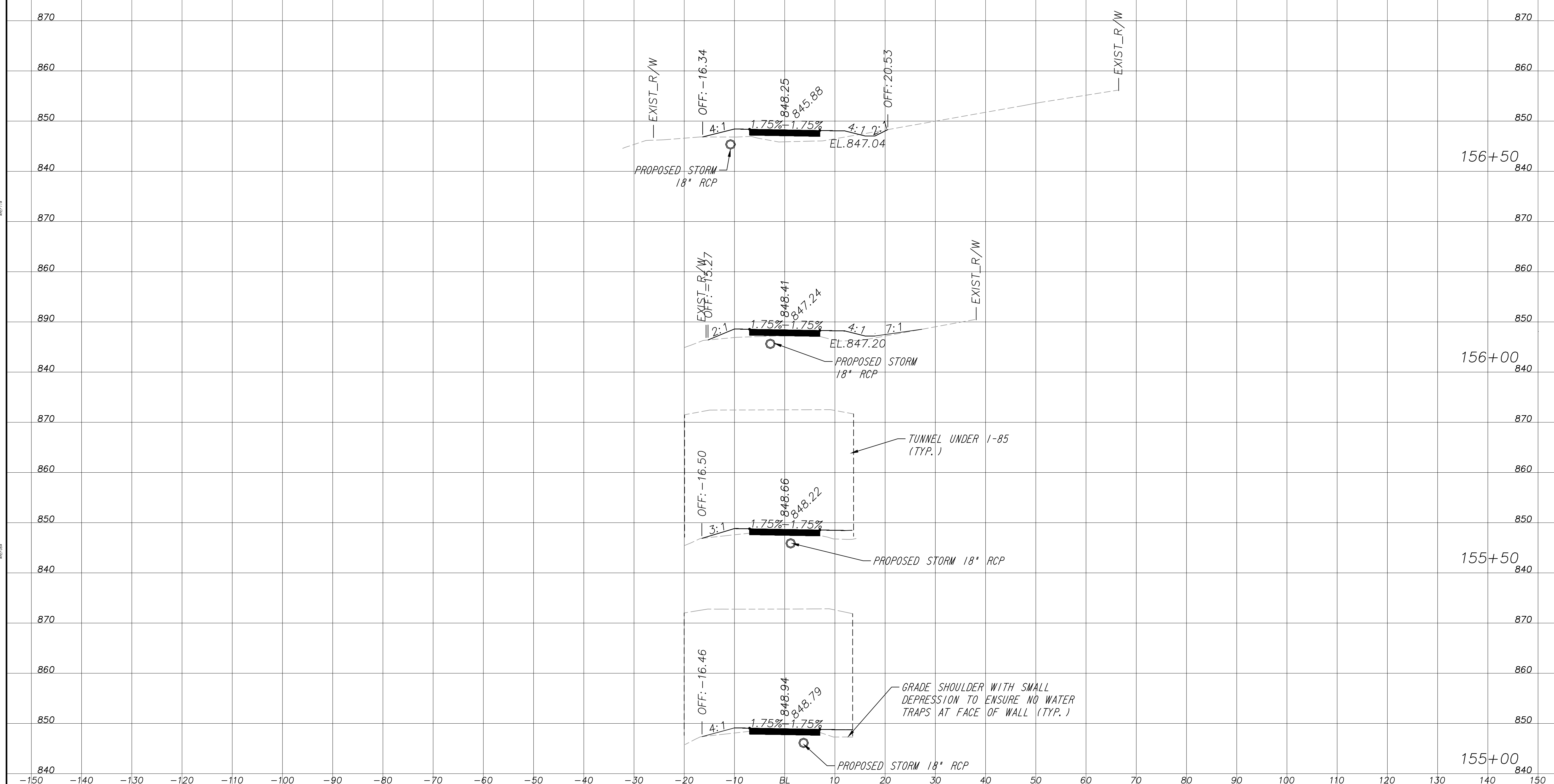


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-023
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

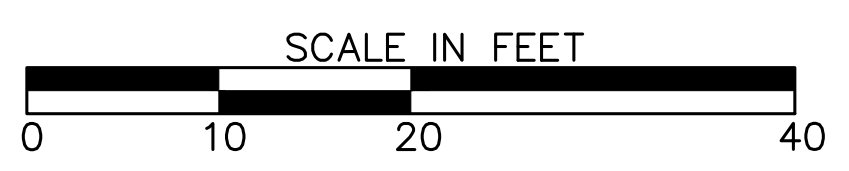
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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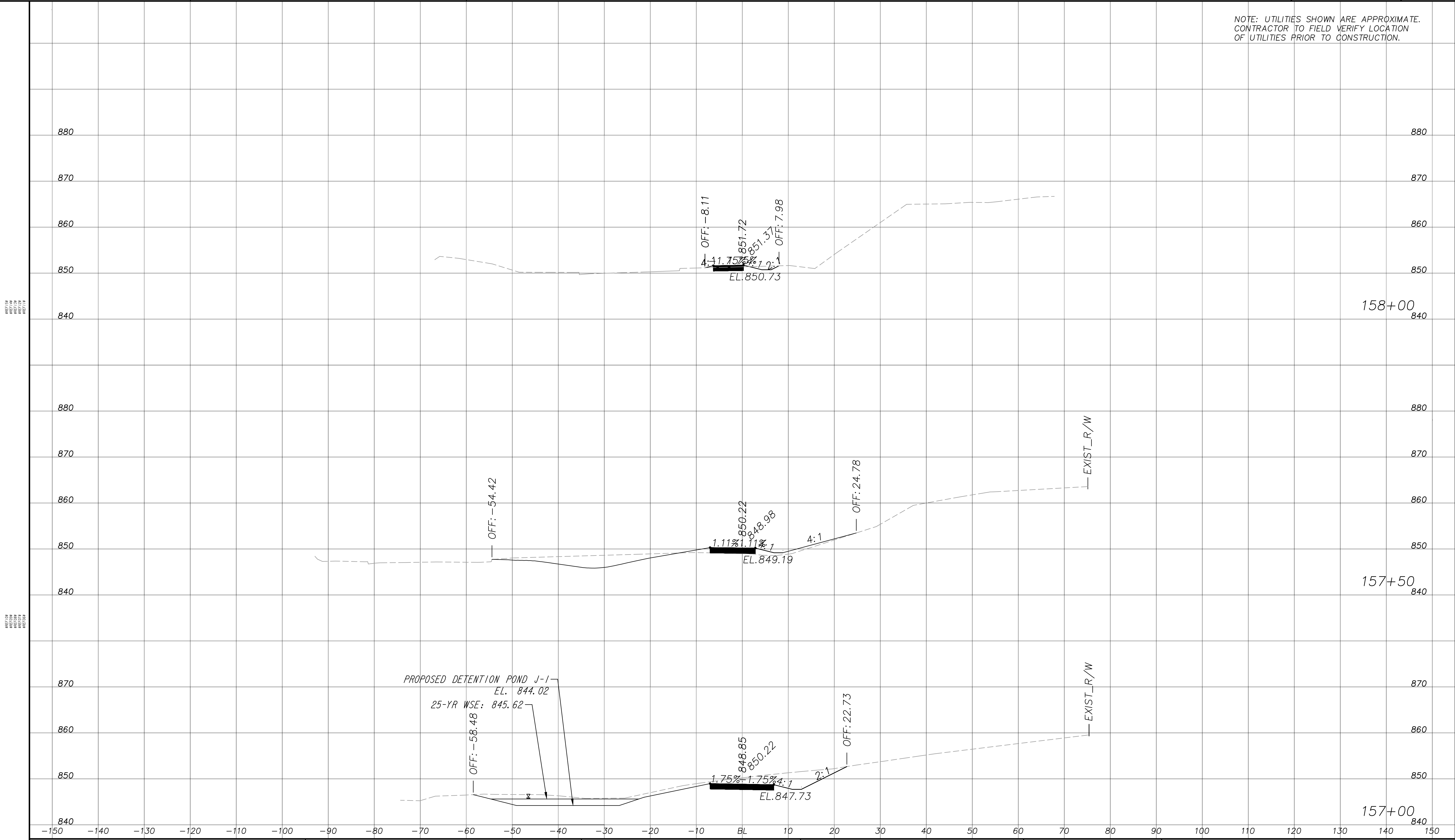


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-024
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

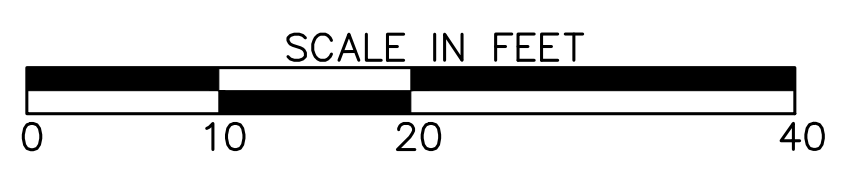
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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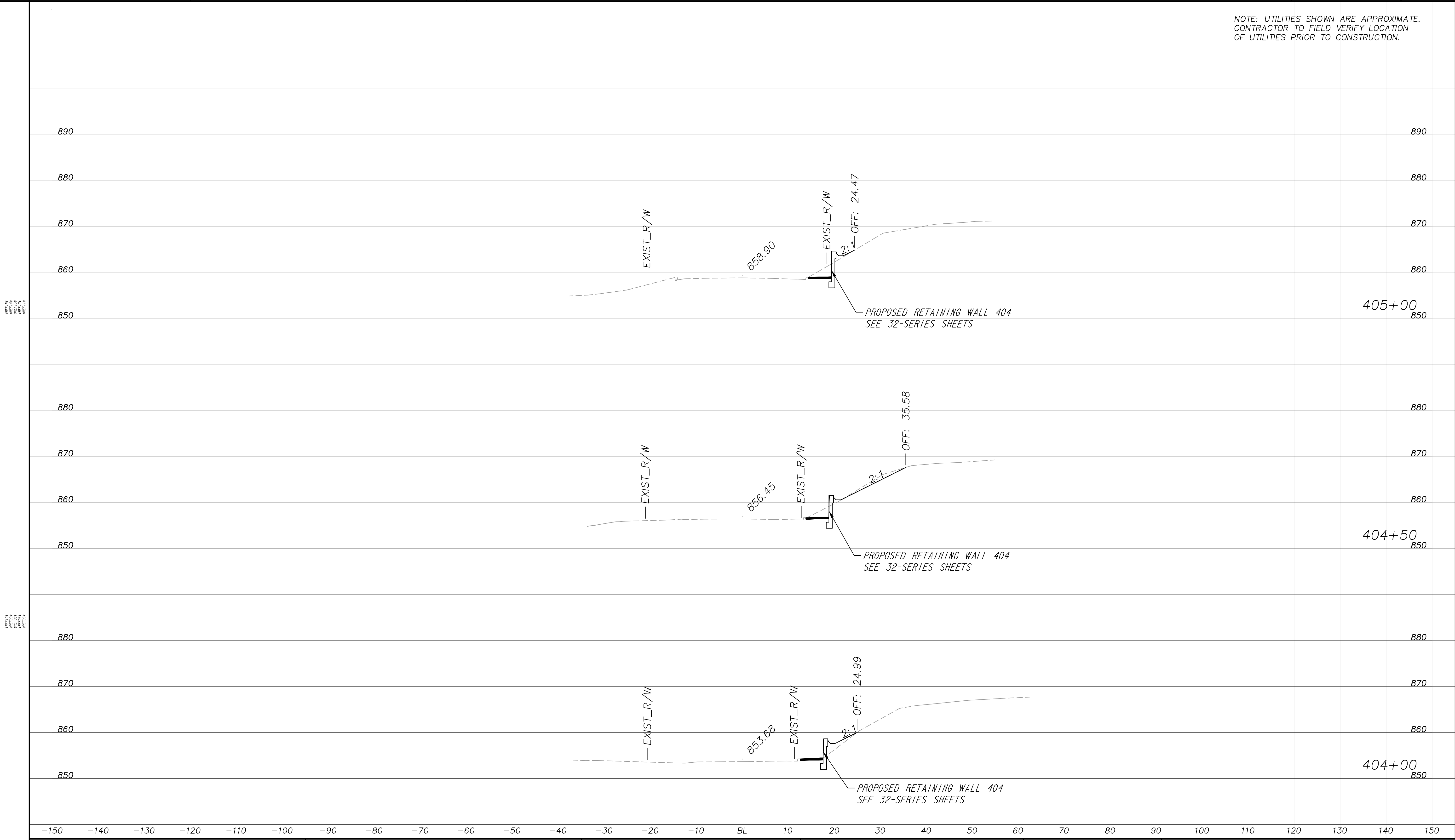


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 23-025
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

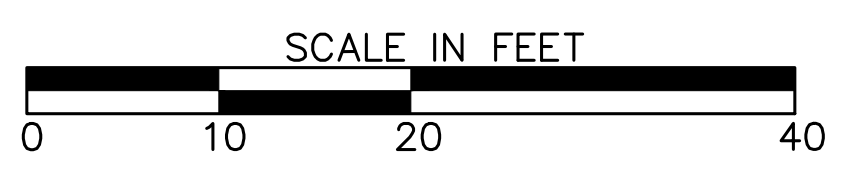
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OF UTILITIES PRIOR TO CONSTRUCTION.



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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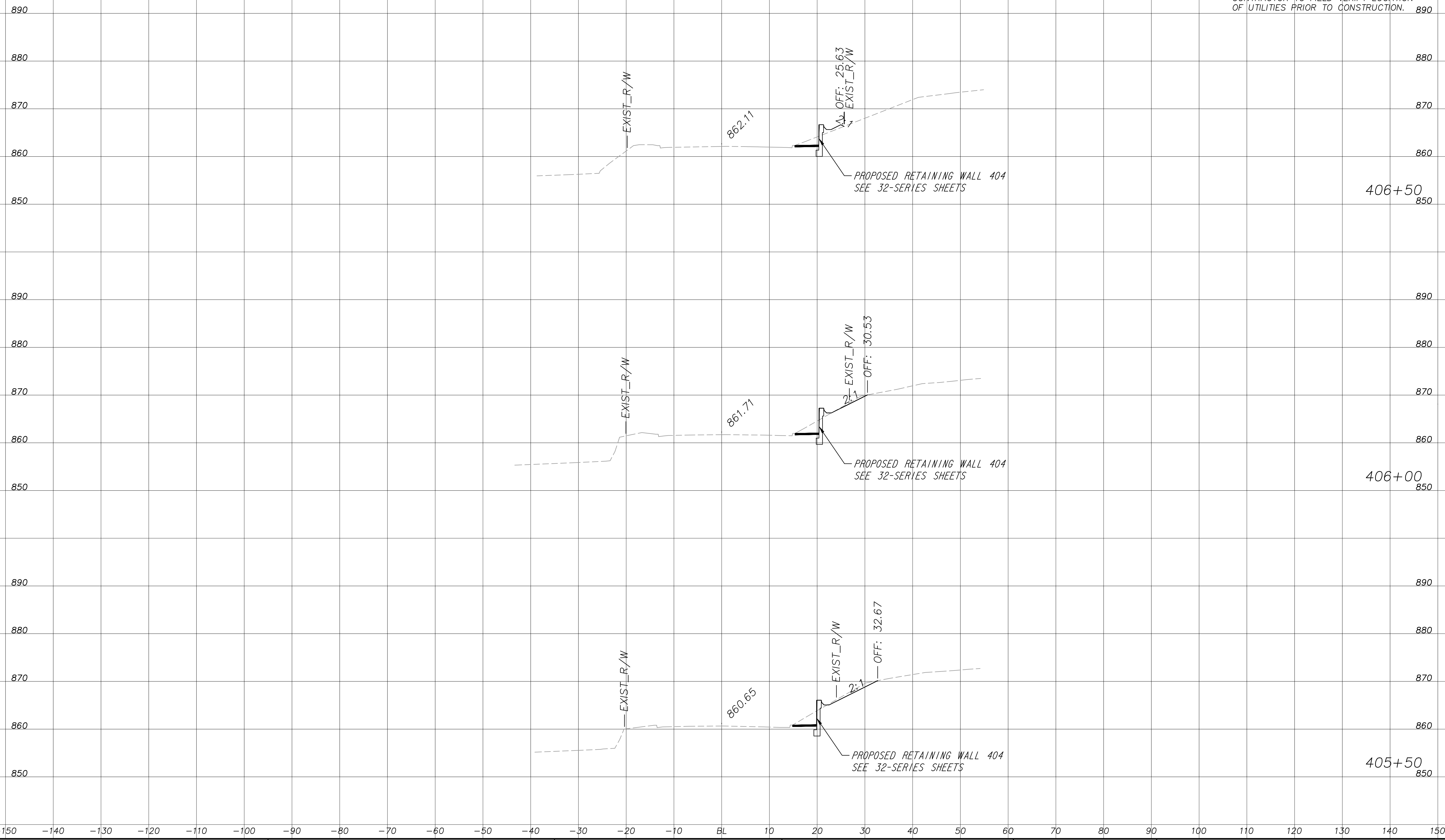


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL
 MAYSON STREET

CHECKED:	DATE:	DRAWING No. 23-026
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

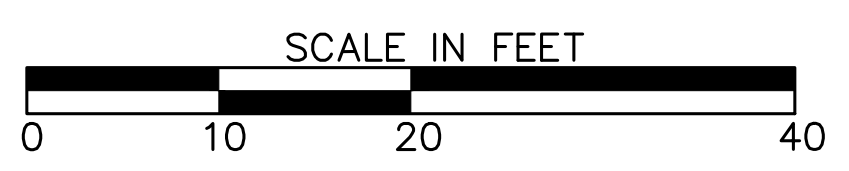
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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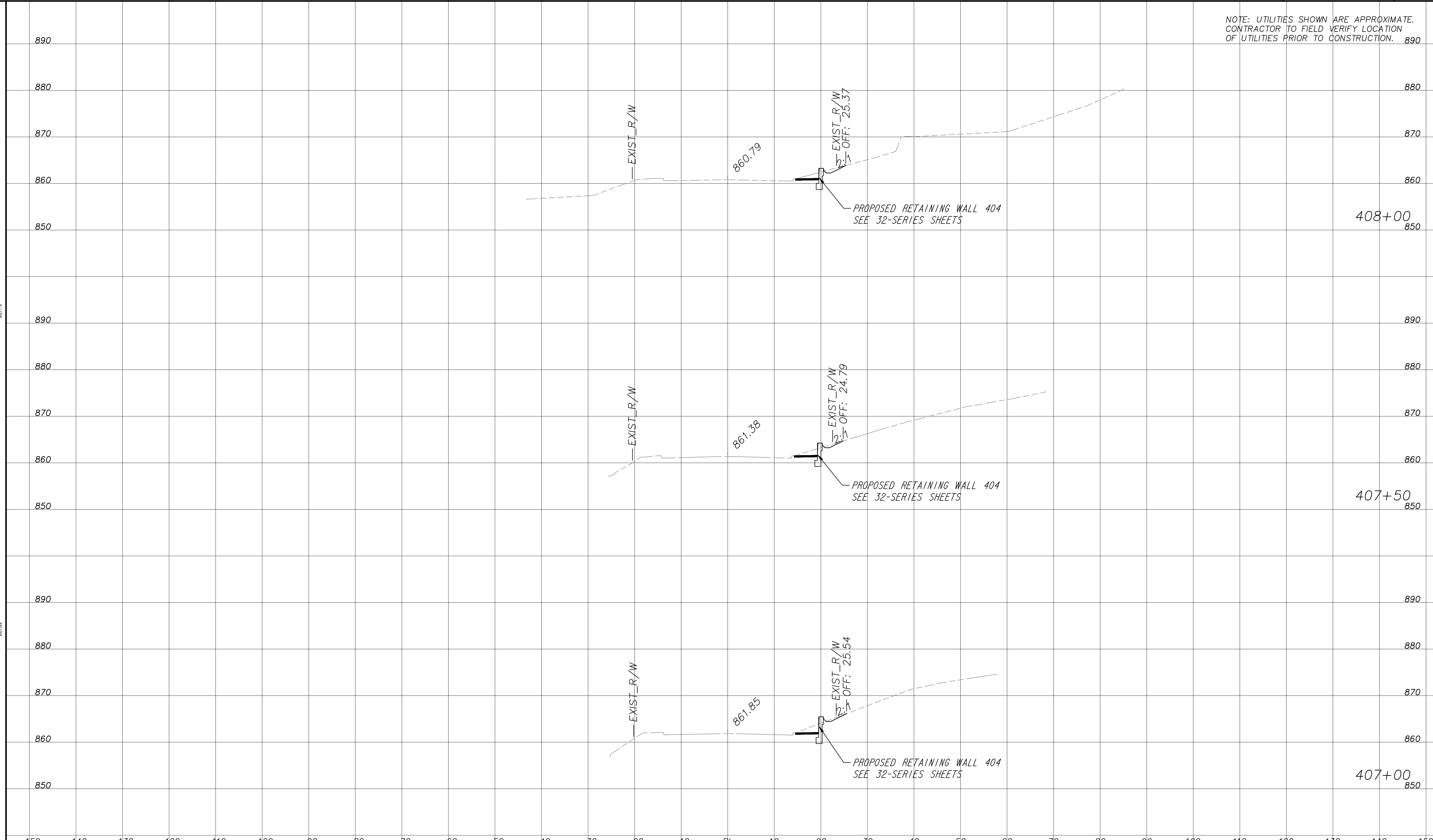


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL
 MAYSON STREET

CHECKED:	DATE:	DRAWING No. 23-027
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

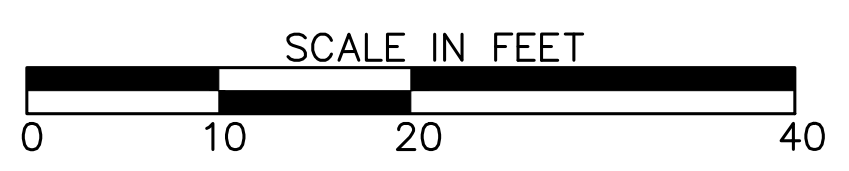
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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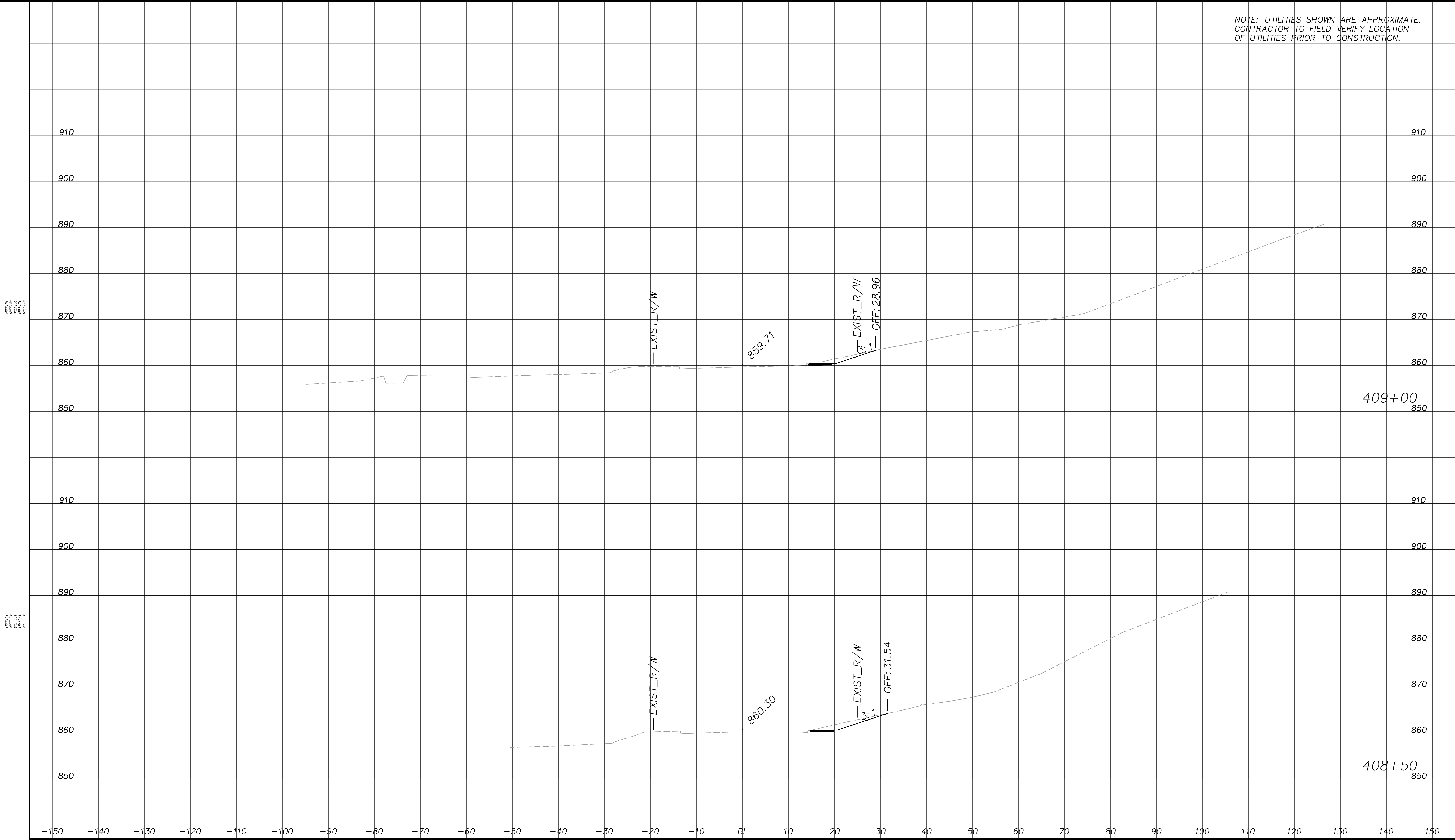


REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL
 MAYSON STREET

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-028
CORRECTED:	DATE:	
VERIFIED:	DATE:	

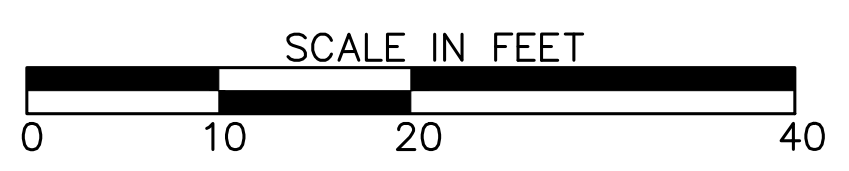
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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 ATLANTA, GEORGIA 30308
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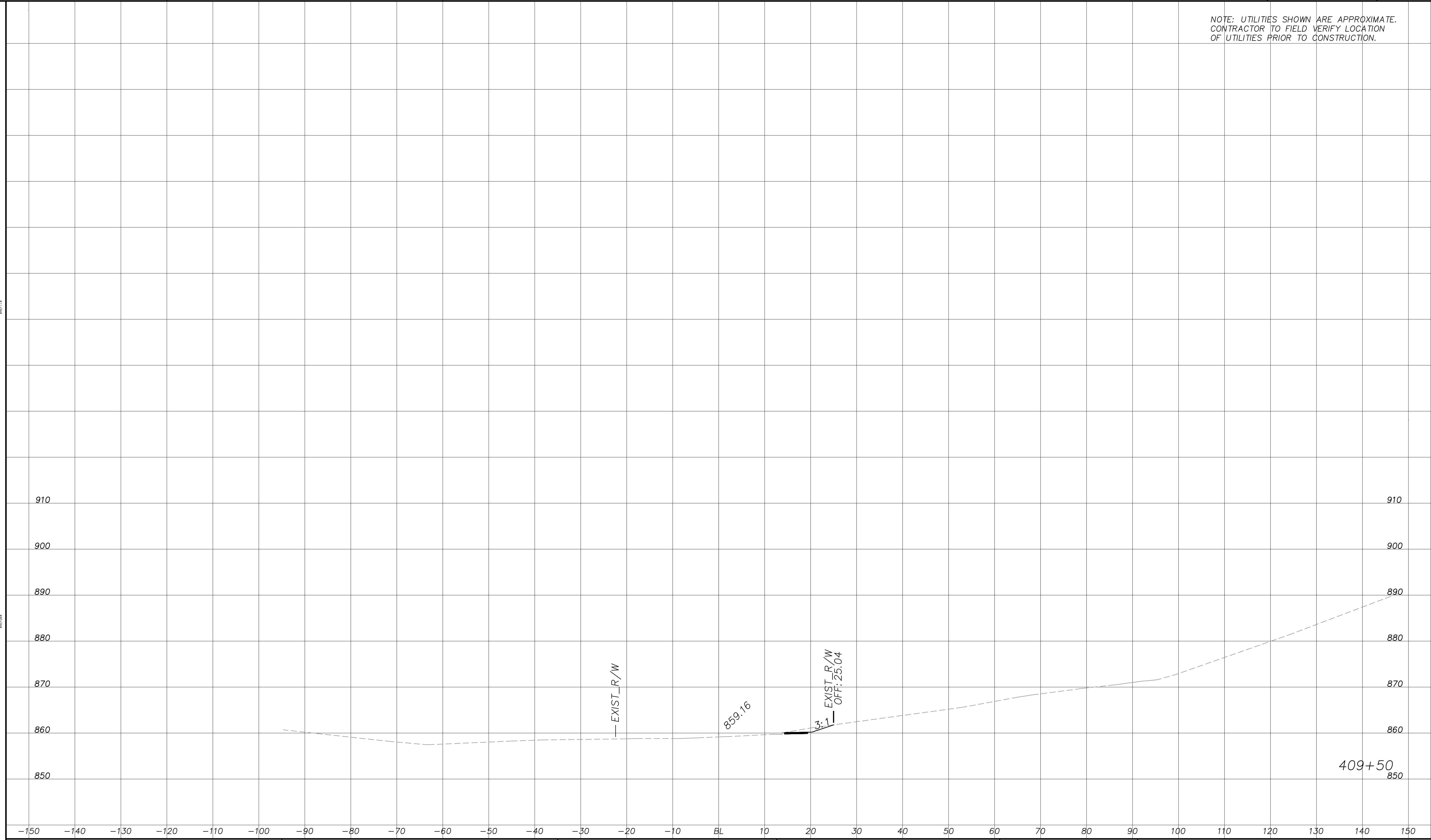
REVISION DATES	

EARTHWORK CROSS SECTIONS
 ATLANTA BELTLINE NORTHEAST TRAIL
 MAYSON STREET

CHECKED:	DATE:	DRAWING No. 23-029
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE: UTILITIES SHOWN ARE APPROXIMATE.
CONTRACTOR TO FIELD VERIFY LOCATION
OF UTILITIES PRIOR TO CONSTRUCTION.

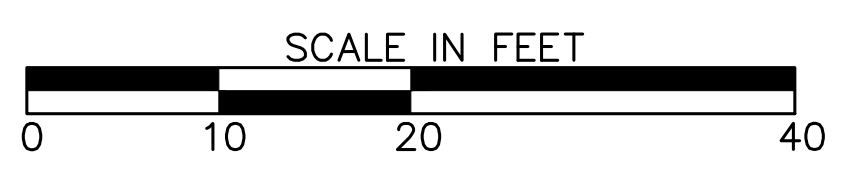
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PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

EARTHWORK CROSS SECTIONS
ATLANTA BELTLINE NORTHEAST TRAIL
MAYSON STREET

CHECKED:	DATE:	DRAWING No. 23-030
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

UTILITY LINECODES

Table with columns: EXISTING, TO BE REMOVED, PROPOSED, TYPE OF UTILITY. Includes codes for Electric, Telecommunications, GUY WIRE, and TRAFFIC CONTROL.

Table with columns: EXISTING, TO BE REMOVED, PROPOSED, TYPE OF UTILITY. Includes codes for Electric Underground, Telecommunications Underground, Water, Sanitary Sewer, and Gas.

Table with columns: EXISTING, TO BE REMOVED, PROPOSED, TYPE OF UTILITY. Includes codes for Proposed Flowable Fill Encased Utility Duct Bank, ROW, Limit Cut, Limit Fill, CSX, and Proposed Ditch and Channel.

UTILITY SYMBOLS

Table with columns: EXISTING, PROPOSED, TEMPORARY. Lists symbols for Utility Pole/Guy Pole, Light Pole, Splice Box, Cabinet, Electric Manhole, Hand Hole, Transformer, Electric Meter, Electric Box, Telecommunications Manhole, Telecommunications Pedestal, Cable TV Pedestal, Cable TV Manhole, Water Valve, Water Meter, and Water Manhole.

UTILITIES GENERAL NOTES

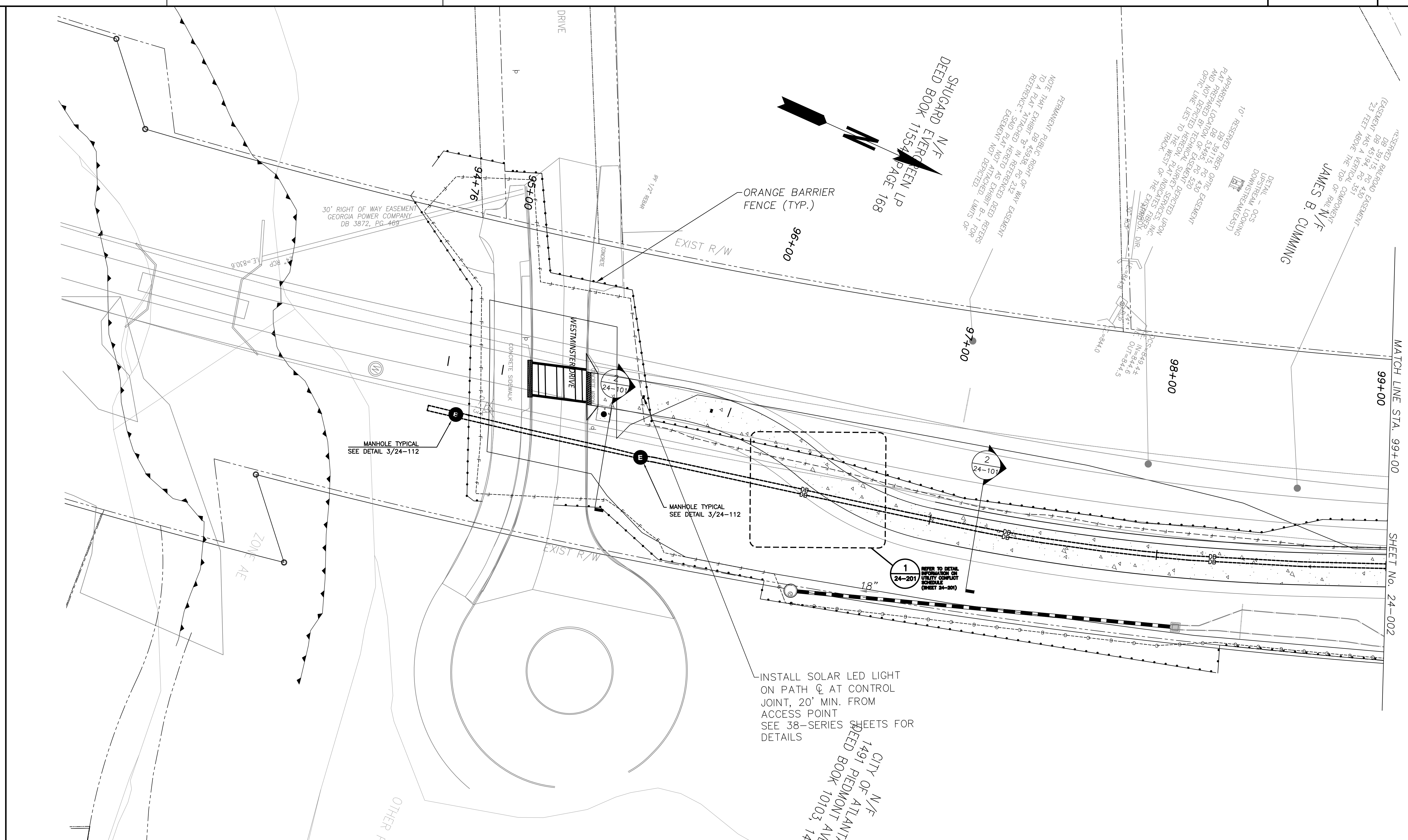
- 1. LOCATIONS, SIZES, AND MATERIALS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. UTILITIES SHOWN ON THESE DRAWINGS WERE COMPILED FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND BY SUE SURVEYS... 20. BACKFILL OF ALL TRENCHES SHALL BE FREE OF DEBRIS, STUMPS, ROOTS, OR OTHER FOREIGN MATERIAL AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL...

Table with columns: REVISION DATES, ATLANTA BELTLINE NORTHEAST TRAIL UTILITIES GENERAL NOTES AND LEGENDS, CHECKED, BACKCHECKED, CORRECTED, VERIFIED, DATE, DRAWING No. 24-000.



Atlanta BeltLine logo and RPA logo. Text: ATLANTA BELTLINE, INC. 100 PEACHTREE STREET SUITE 2300 ATLANTA, GA 30303 TEL: (404) 477-3003 FAX: (404) 477-3606. R. POWELL & ASSOCIATES, INC. ENGINEERING CONSULTANTS 1312 KILLIAN WAY LILBURN, GEORGIA 30047 PHONE: 770-806-0143





MATCH LINE STA. 99+00 SHEET No. 24-002

JAMES B. CUMMING N/F

SHUGARD EVERGREEN LP N/F DEED BOOK 11554 PAGE 168

PERMANENT PUBLIC RIGHT OF WAY EASEMENT TO A PLAT ATTACHED HERETO AS EXHIBIT B-1 FOR REFERENCE. SHD PLAN NOT ATTACHED DEED REFERS EASEMENT NOT DEDICATED.

APPROXIMATE LOCATION OF EASEMENT AND NOT DEDICATED HERON SURVEY SERVICES, INC. OPTIC LINE LIES TO THE WEST OF THE TRACK.

30' RIGHT OF WAY EASEMENT GEORGIA POWER COMPANY DB 3872, PG. 489

ORANGE BARRIER FENCE (TYP.)

EXIST R/W

WESTMINSTER DRIVE

MANHOLE TYPICAL SEE DETAIL 3/24-112

MANHOLE TYPICAL SEE DETAIL 3/24-112

1 REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)

INSTALL SOLAR LED LIGHT ON PATH Q AT CONTROL JOINT, 20' MIN. FROM ACCESS POINT SEE 38-SERIES SHEETS FOR DETAILS

CITY OF ATLANTA N/F 1491 PIEDMONT AVE DEED BOOK 10103, 140

X
24-201

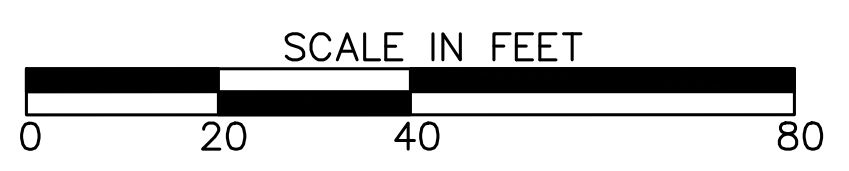
CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



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100 PEACHTREE STREET SUITE 2300 ATLANTA, GA 30303 TEL: (404) 477-3003 FAX: (404) 477-3606

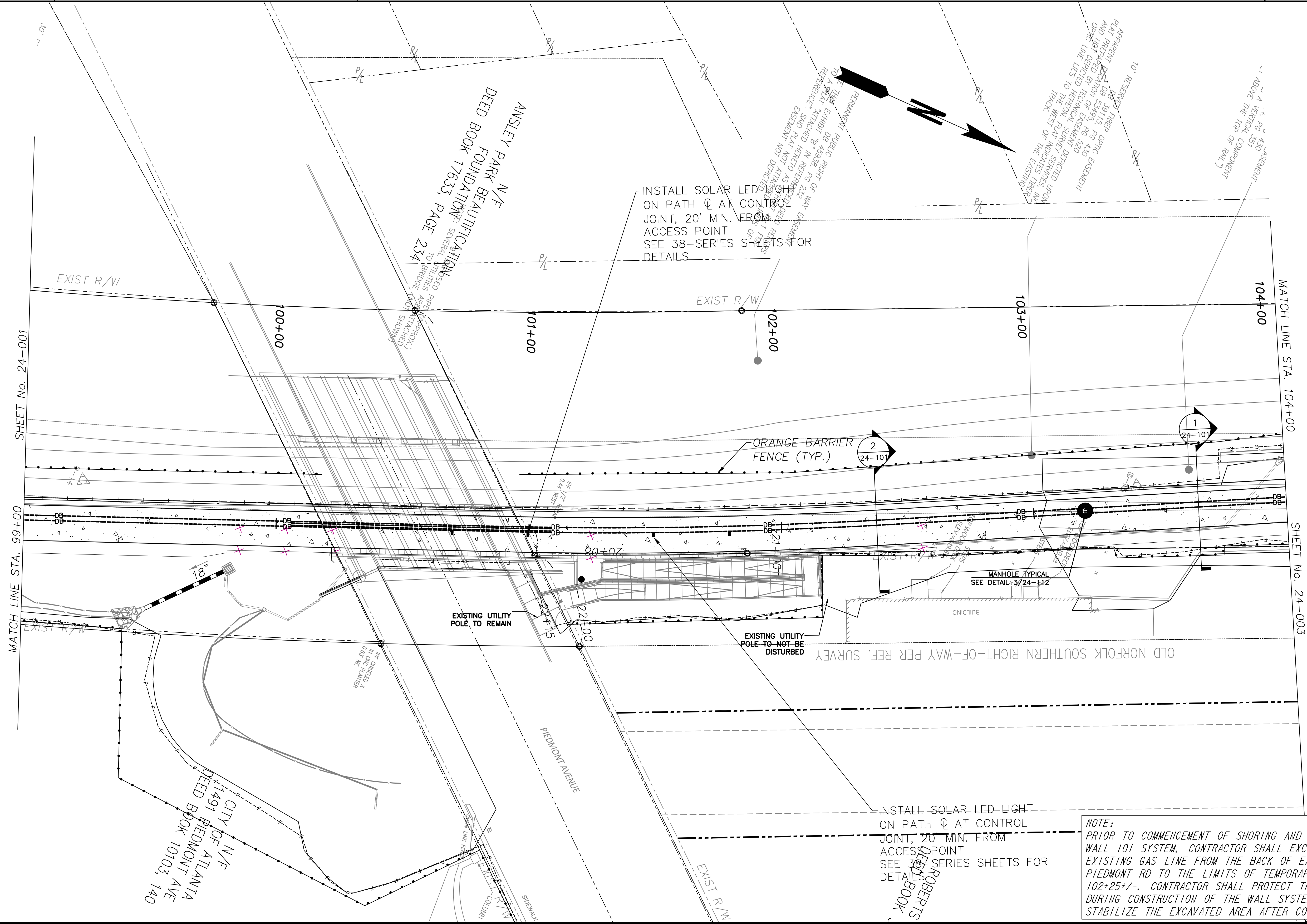


R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY LILBURN, GEORGIA 30047 PHONE: 770-906-0143



REVISION DATES	

UTILITY PLANS			
ATLANTA BELTLINE NORTHEAST TRAIL			
STA. START TO		STA. 99+00	
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			24-001



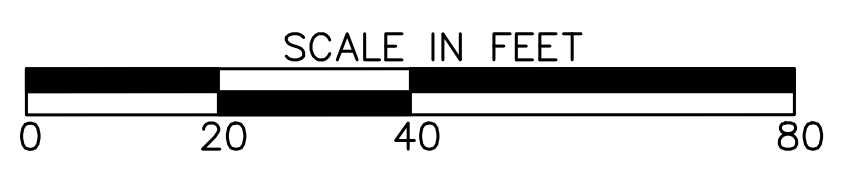
NOTE:
 PRIOR TO COMMENCEMENT OF SHORING AND GRADING ACTIVITIES FOR WALL 101 SYSTEM, CONTRACTOR SHALL EXCAVATE TO REVEAL THE EXISTING GAS LINE FROM THE BACK OF EXISTING SIDEWALK AT PIEDMONT RD TO THE LIMITS OF TEMPORARY EASEMENT AT STA. 102+25+/- . CONTRACTOR SHALL PROTECT THE EXISTING GAS LINE DURING CONSTRUCTION OF THE WALL SYSTEM AND BACKFILL AND STABILIZE THE EXCAVATED AREA AFTER COMPLETION.

X
 24-201
 CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



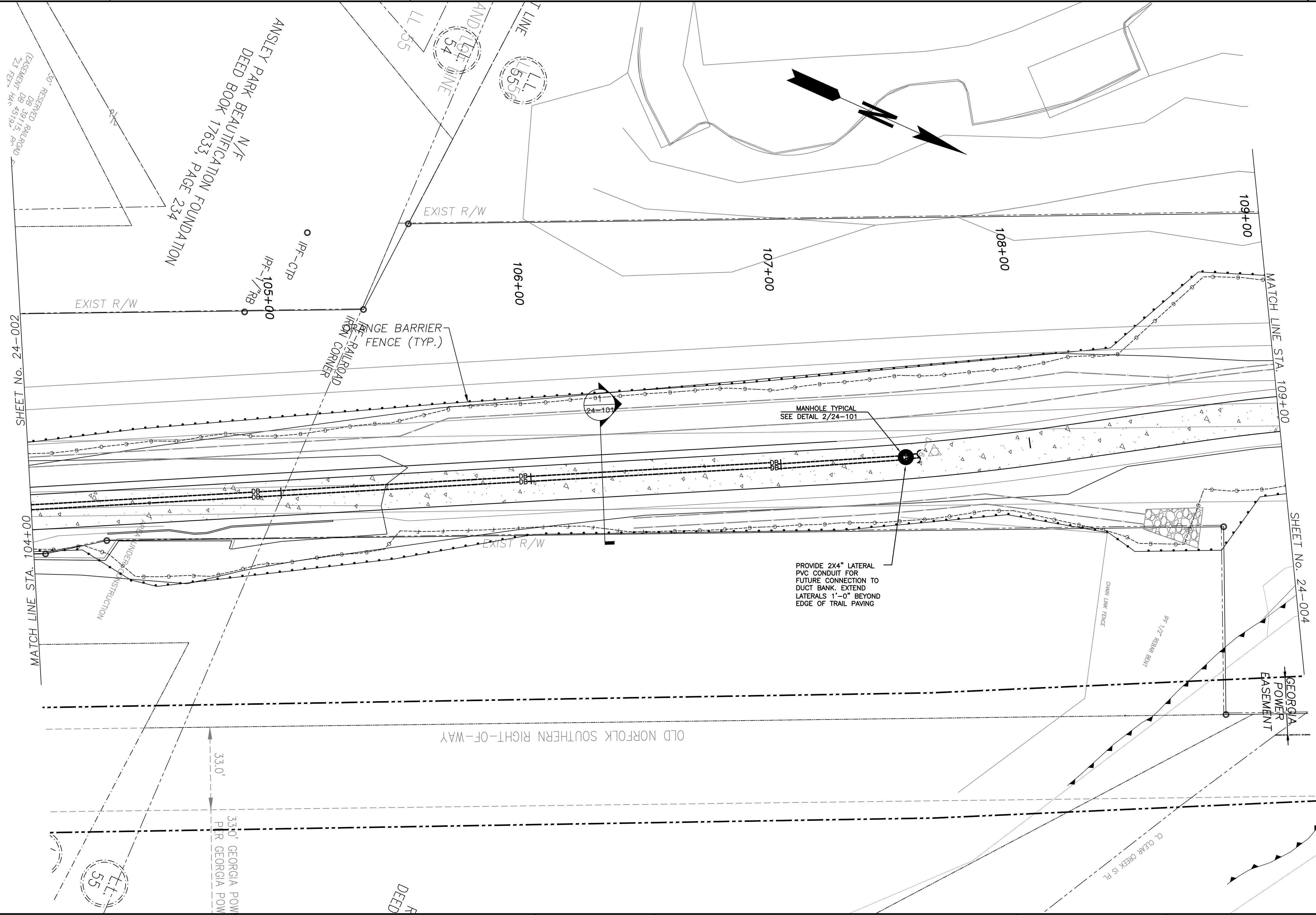
Atlanta BeltLine
 ATLANTA BELTLINE, INC.
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 SUITE 2300
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 FAX: (404) 477-3606

RPA
 R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143



REVISION DATES	

UTILITY PLANS			
ATLANTA BELTLINE NORTHEAST TRAIL			
STA. 99+00 TO		STA. 104+00	
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			24-002



X
24-201

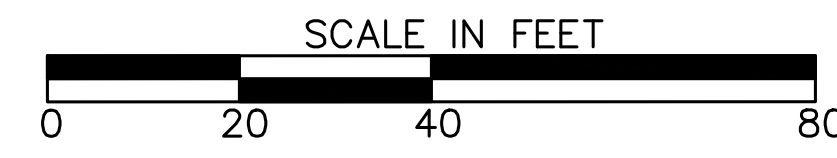
CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



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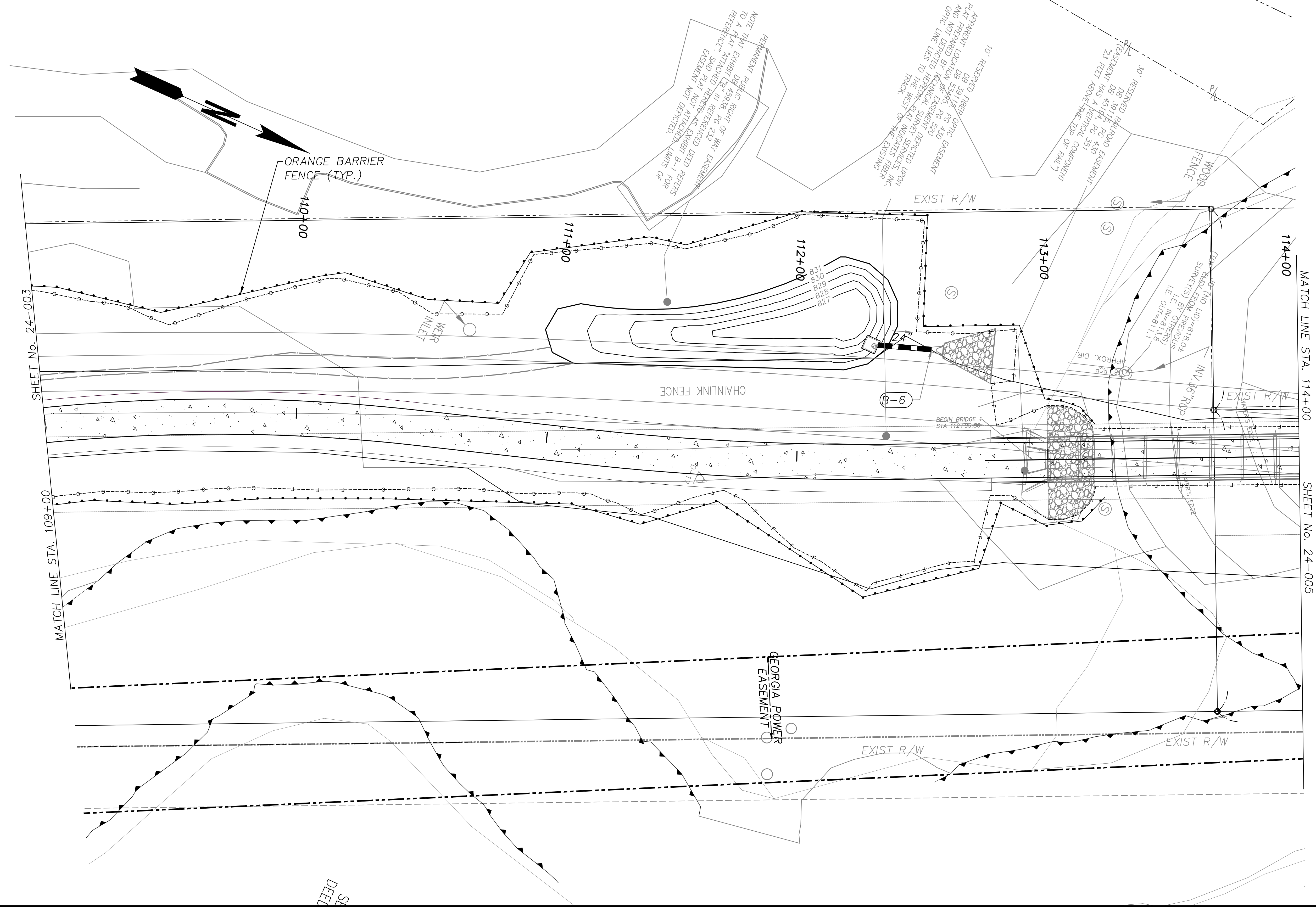


REVISION DATES	

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 104+00 TO STA. 109+00

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-003



SHEET No. 24-003

MATCH LINE STA. 109+00

MATCH LINE STA. 114+00

SHEET No. 24-005

X
24-201

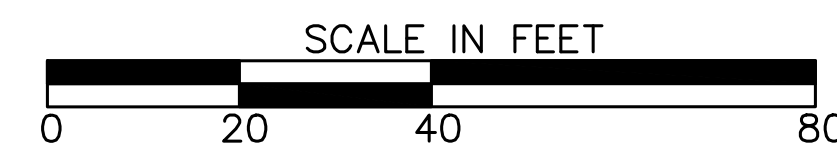
CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



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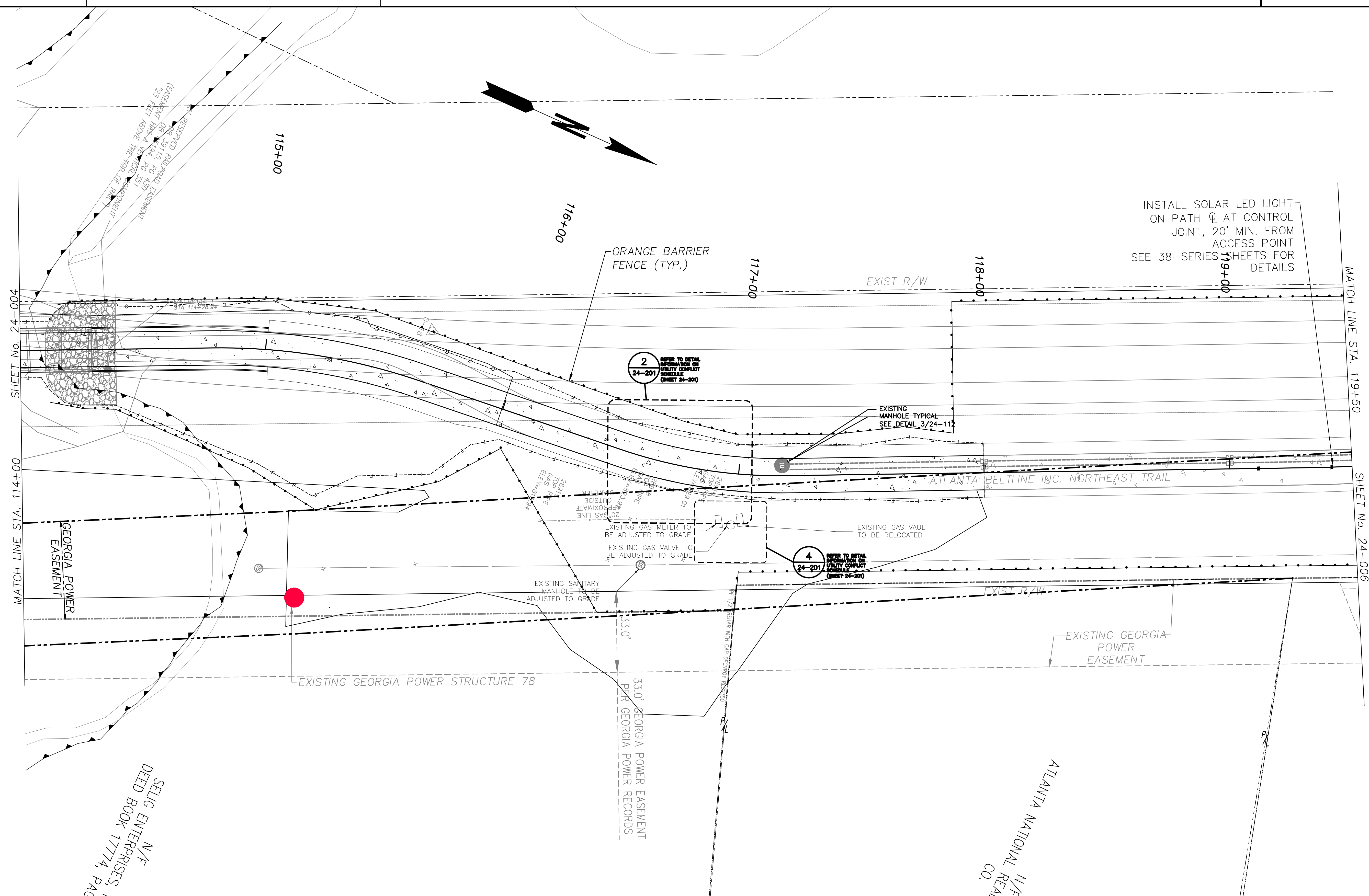
REVISION DATES

NO.	DATE	DESCRIPTION

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 109+00 TO STA. 114+00

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
24-004



INSTALL SOLAR LED LIGHT
ON PATH \hat{C} AT CONTROL
JOINT, 20' MIN. FROM
ACCESS POINT
SEE 38-SERIES SHEETS FOR
DETAILS

2 REFER TO DETAIL
INFORMATION ON
UTILITY CONFLICT
SCHEDULE
(SHEET 24-201)

4 REFER TO DETAIL
INFORMATION ON
UTILITY CONFLICT
SCHEDULE
(SHEET 24-201)

SHEET No. 24-004

MATCH LINE STA. 114+00

MATCH LINE STA. 119+50

SHEET No. 24-006

GEORGIA POWER
EASEMENT

SELIG ENTERPRISES, INC.
N/F
DEED BOOK 17774, PAGE

ATLANTA NATIONAL REAL
CO.
N/F

NOTE:
1. TIE INTO EXISTING ELECTRICAL MANHOLE AND DUCTBANK AT STA 117+18.
2. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.

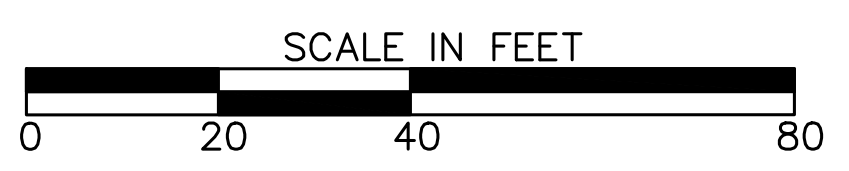
X
24-201

CALL OUTS REFER TO DETAIL
INFORMATION ON UTILITY
CONFLICT SCHEDULE
(SHEET 24-201)



Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

RPA
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-806-0143

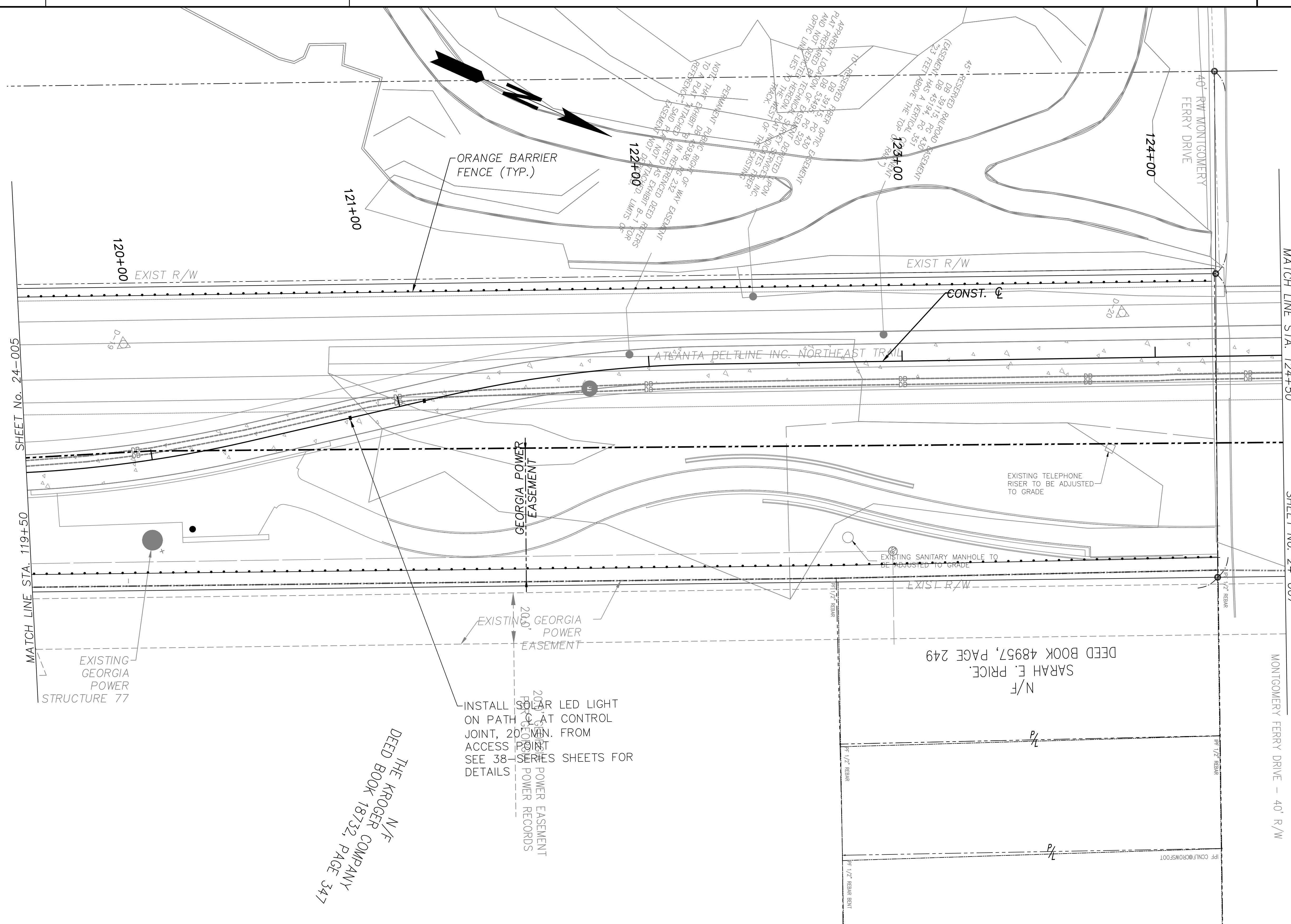


REVISION DATES	

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 114+00 TO STA. 119+50

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-005



SHEET No. 24-005
MATCH LINE STA. 119+50

MATCH LINE STA. 124+50
SHEET No. 24-007

MONTGOMERY FERRY DRIVE - 40' R/W

NOTE:
1. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.

X
24-201

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)

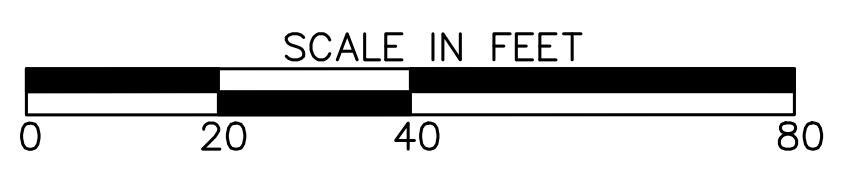
THE KROGER COMPANY
N/F
DEED BOOK 18732, PAGE 347

INSTALL SOLAR LED LIGHT ON PATH AT CONTROL JOINT, 20' MIN. FROM ACCESS POINT. SEE 38-SERIES SHEETS FOR DETAILS



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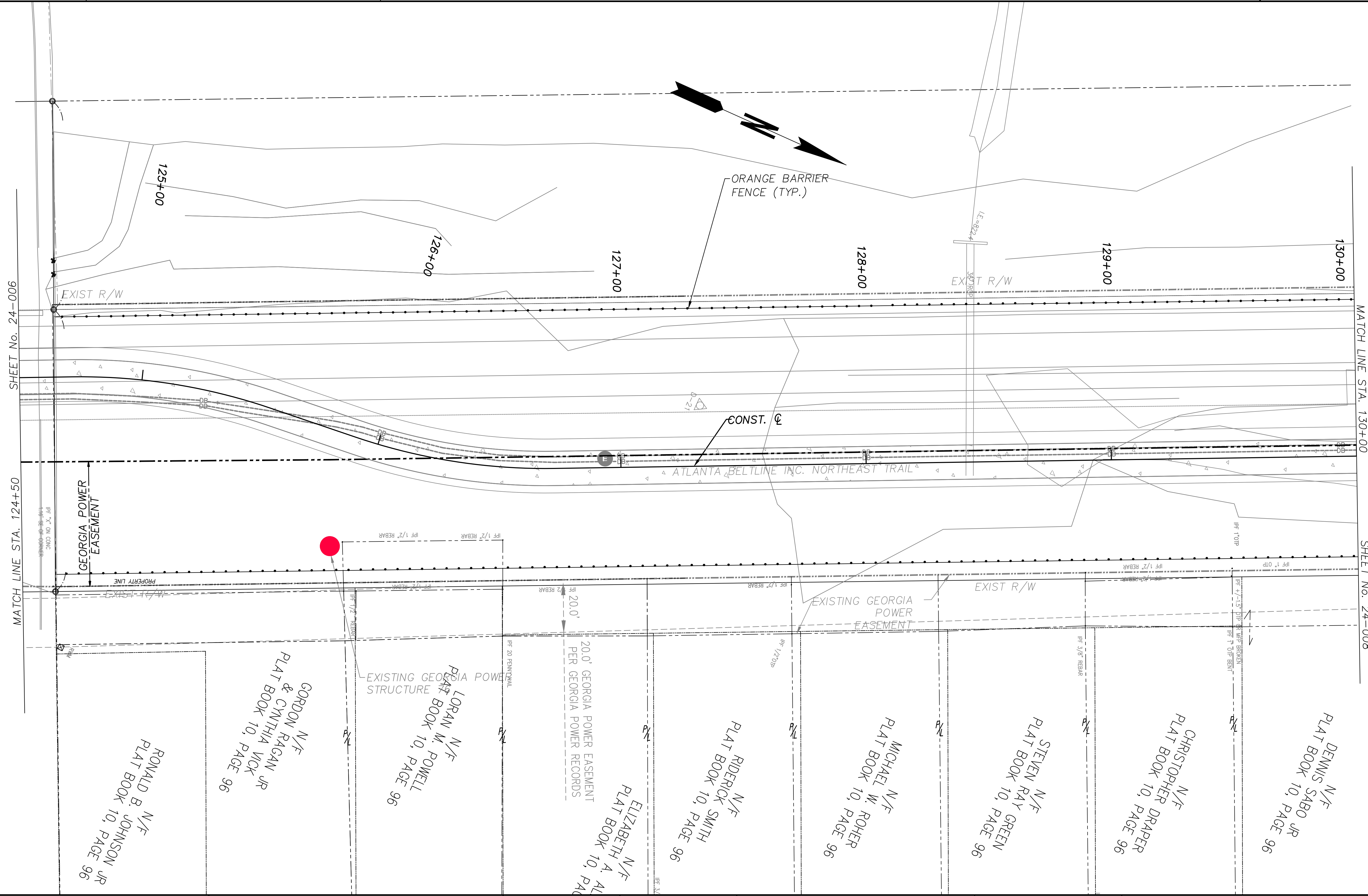
RPA
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ENGINEERING CONSULTANTS
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LILBURN, GEORGIA 30047
PHONE: 770-906-0143



REVISION DATES	

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 119+50 TO STA. 124+50

CHECKED:	DATE:	DRAWING No. 24-006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 24-006

MATCH LINE STA. 124+50

MATCH LINE STA. 130+00

SHEET No. 24-008

NOTE:
 1. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.

X
 24-201

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



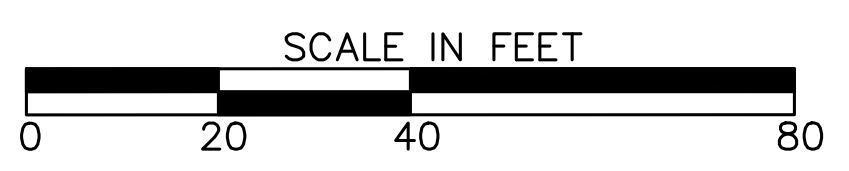
Atlanta BeltLine

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 100 PEACHTREE STREET
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 ATLANTA, GA 30303
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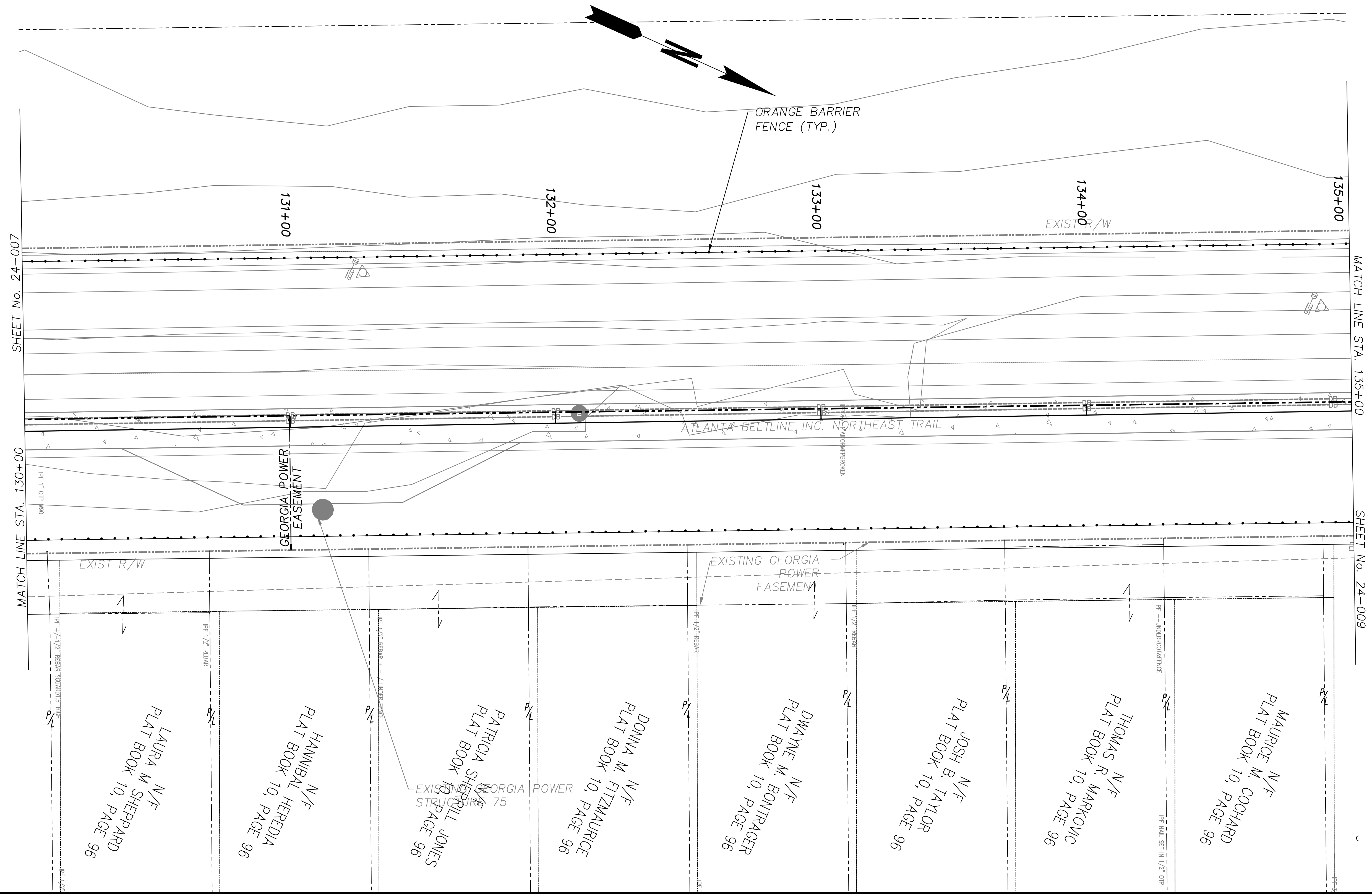


REVISION DATES	

UTILITY PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 124+50 TO STA. 130+00

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-007



SHEET No. 24-007

MATCH LINE STA. 135+00

MATCH LINE STA. 130+00

SHEET No. 24-009

LAURA M. SHEPPARD
N/F
PLAT BOOK 10, PAGE 96

HANNIBAL HEREDIA
N/F
PLAT BOOK 10, PAGE 96

PATRICIA SHERILL JONES
N/F
PLAT BOOK 10, PAGE 96

DOMINA M. FITZMAURICE
N/F
PLAT BOOK 10, PAGE 96

DWAYNE M. BONTRAGER
N/F
PLAT BOOK 10, PAGE 96

JOSH B. TAYLOR
N/F
PLAT BOOK 10, PAGE 96

THOMAS R. MARKONIC
N/F
PLAT BOOK 10, PAGE 96

MAURICE M. COCHARD
N/F
PLAT BOOK 10, PAGE 96

NOTE:
 1. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.

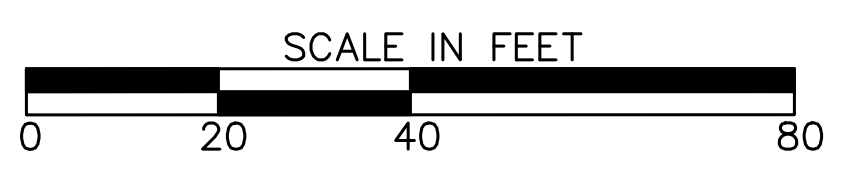
X
 24-201

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



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 LILBURN, GEORGIA 30047
 PHONE: 770-506-0143



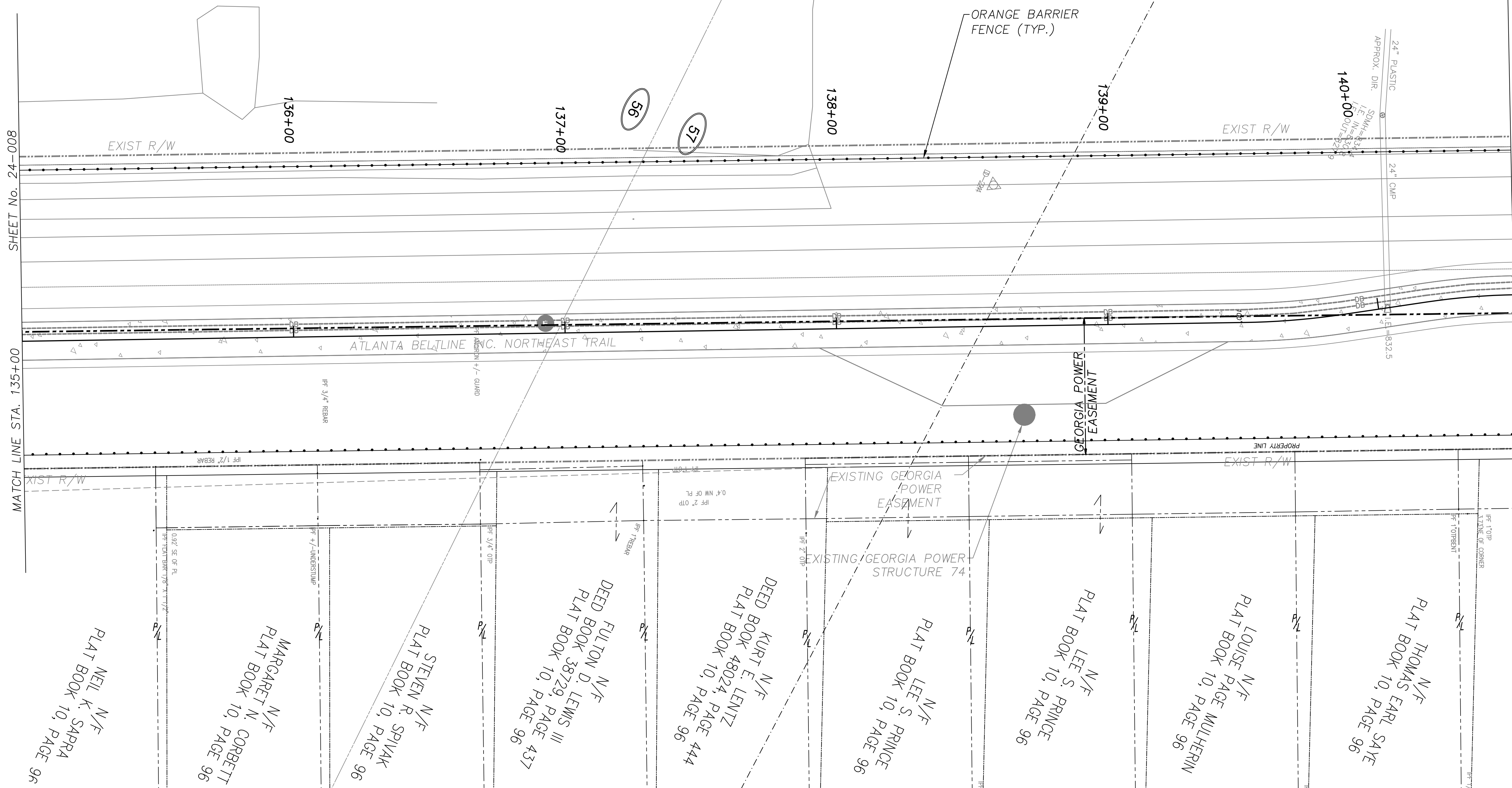
REVISION DATES	

UTILITY PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 130+00 TO STA. 135+00

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-008

OLD NORFOLK SOUTHERN RIGHT-OF-WAY



SHEET No. 24-008

MATCH LINE STA. 135+00

MATCH LINE STA. 140+50

SHEET No. 24-010

NOTE:
 1. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.

X
 24-201

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



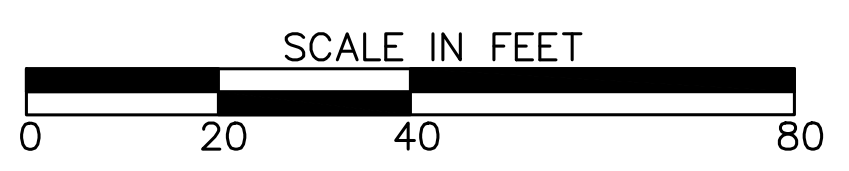
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 PHONE: 770-806-0143

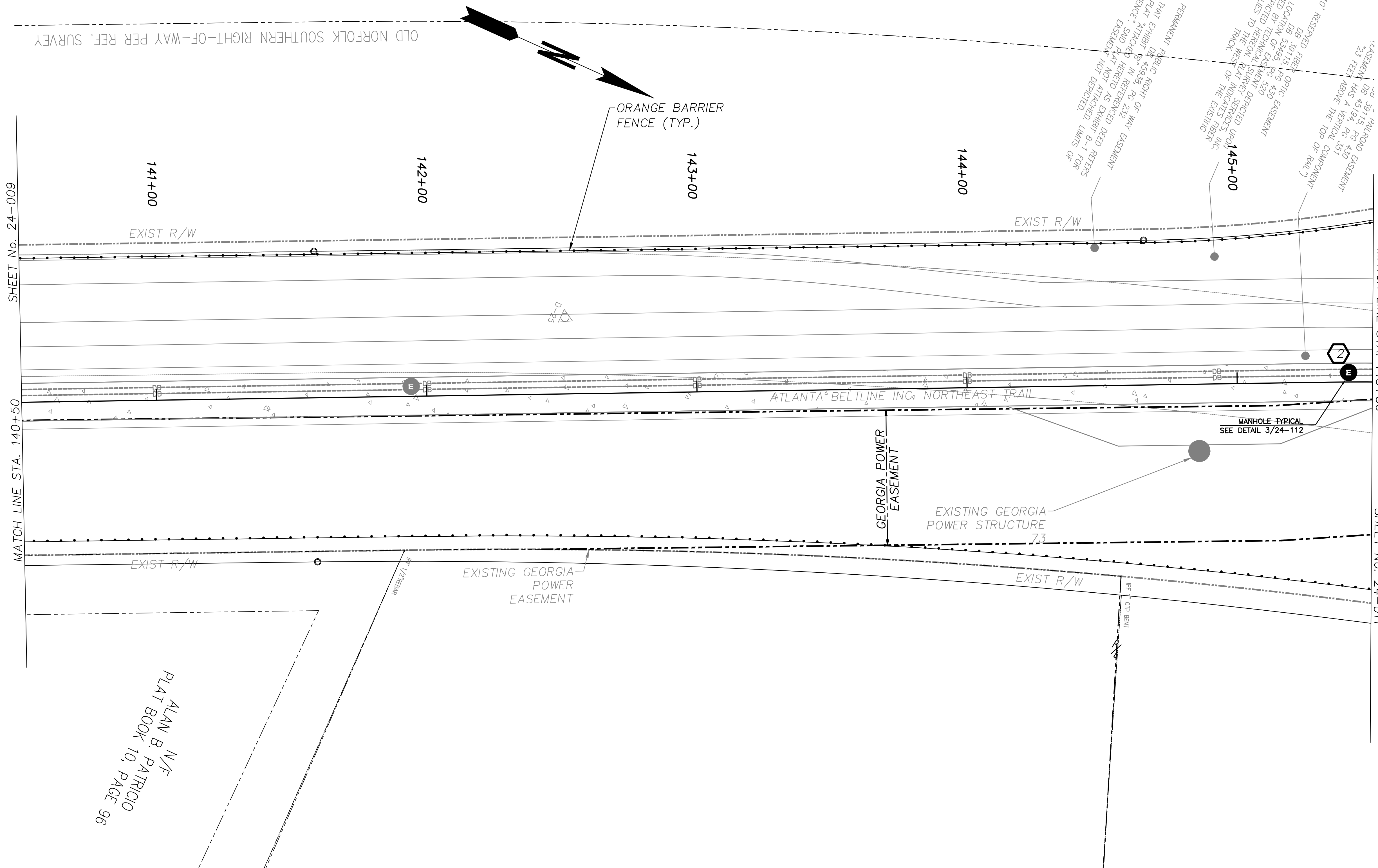


REVISION DATES	

UTILITY PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 135+00 TO STA. 140+50

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-009



ALAN B. PATRICIO
N/F
PLAT BOOK 10, PAGE 96

KEY NOTES:
 1. EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.
 2. INSTALL NEW MANHOLE AT STA 145+50

X
 24-201

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



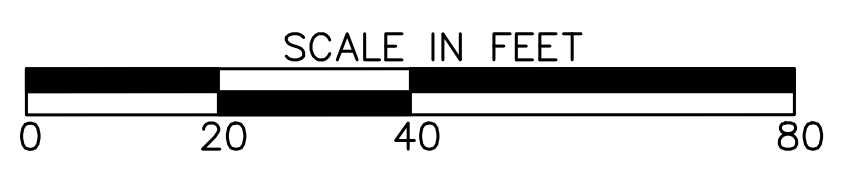
Atlanta BeltLine

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 100 PEACHTREE STREET
 SUITE 2300
 ATLANTA, GA 30303
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 FAX: (404) 477-3606

RPA

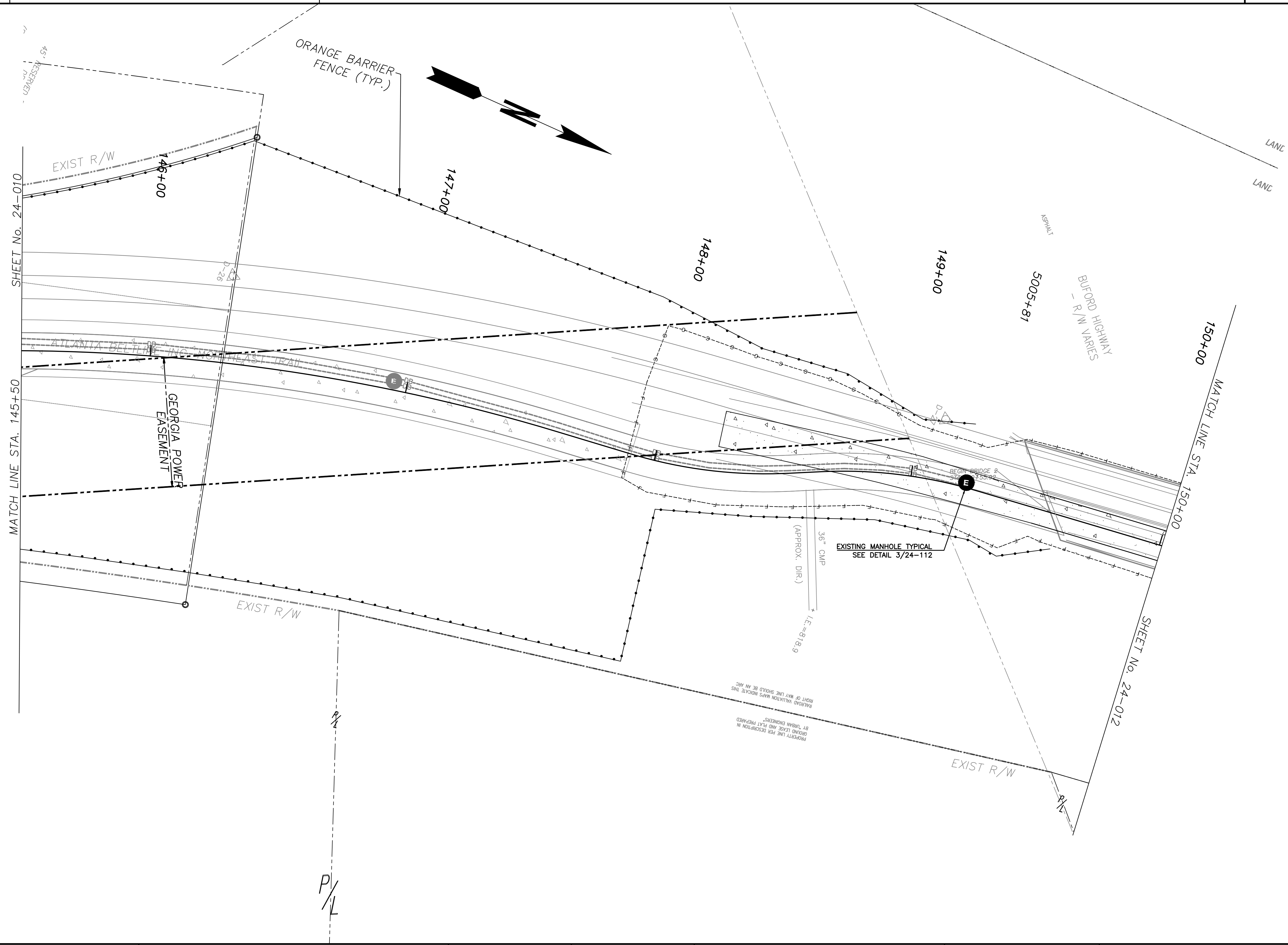
R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS

1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143



REVISION DATES	

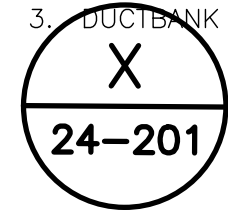
UTILITY PLANS		
ATLANTA BELTLINE NORTHEAST TRAIL		
STA. 140+50 TO		STA. 145+50
CHECKED:		DATE:
BACKCHECKED:		DATE:
CORRECTED:		DATE:
VERIFIED:		DATE:
DRAWING No.		24-010



NOTE:

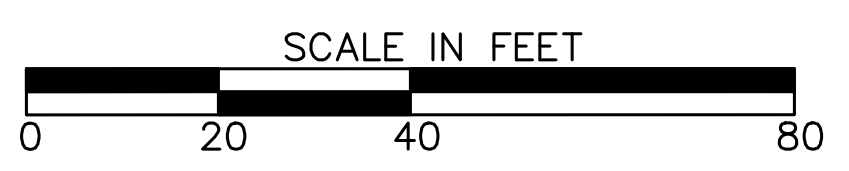
- EXISTING DUCTBANK INSTALLED FROM STA 117+18 TO STA 149+20 UNDER PHASE 1.
- EXISTING ELECTRICAL MANHOLE AND DUCTBANK AT STA 149+20.
- DUCTBANK ENDS AT STA 149+20.

CALL OUTS REFER TO DETAIL INFORMATION ON UTILITY CONFLICT SCHEDULE (SHEET 24-201)



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 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143



REVISION DATES	

UTILITY PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 145+50 TO STA. 150+00

CHECKED:		DATE:		DRAWING No. 24-011
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

LOT 103

LOT 57

SHEET No. 24-011

MATCH LINE STA. 150+00

MATCH LINE STA. 155+00

SHEET No. 24-013

151+00

152+00

153+00

154+00

ORANGE BARRIER FENCE (TYP.)

EXIST R/W

NORFOLK SOUTHERN
RIGHT OF WAY
(V-12A-1 & V-67-17)

END BRIDGE 2
STA 151+20.09

CONCRETE FLUME

PAVED SIDEWALK

CONCRETE FLUME

INTERSTATE 85
EXIT RAMP

INTERSTATE 85
NORTH BOUND

CONCRETE FLUME

NORFOLK SOUTHERN
RIGHT OF WAY
(V-12A-1 & V-67-17)

EXIST R/W

X
24-201

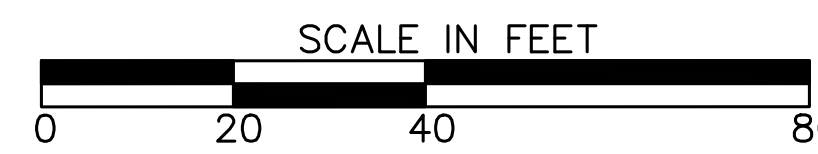
CALL OUTS REFER TO DETAIL
INFORMATION ON UTILITY
CONFLICT SCHEDULE
(SHEET 24-201)



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SUITE 2300
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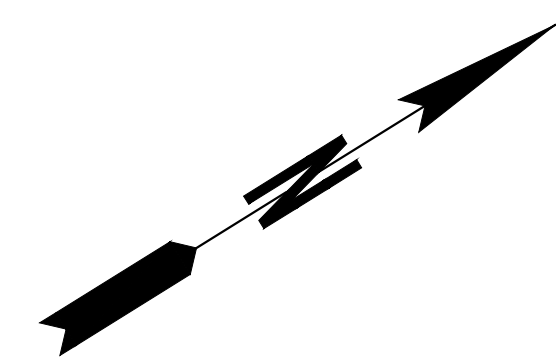
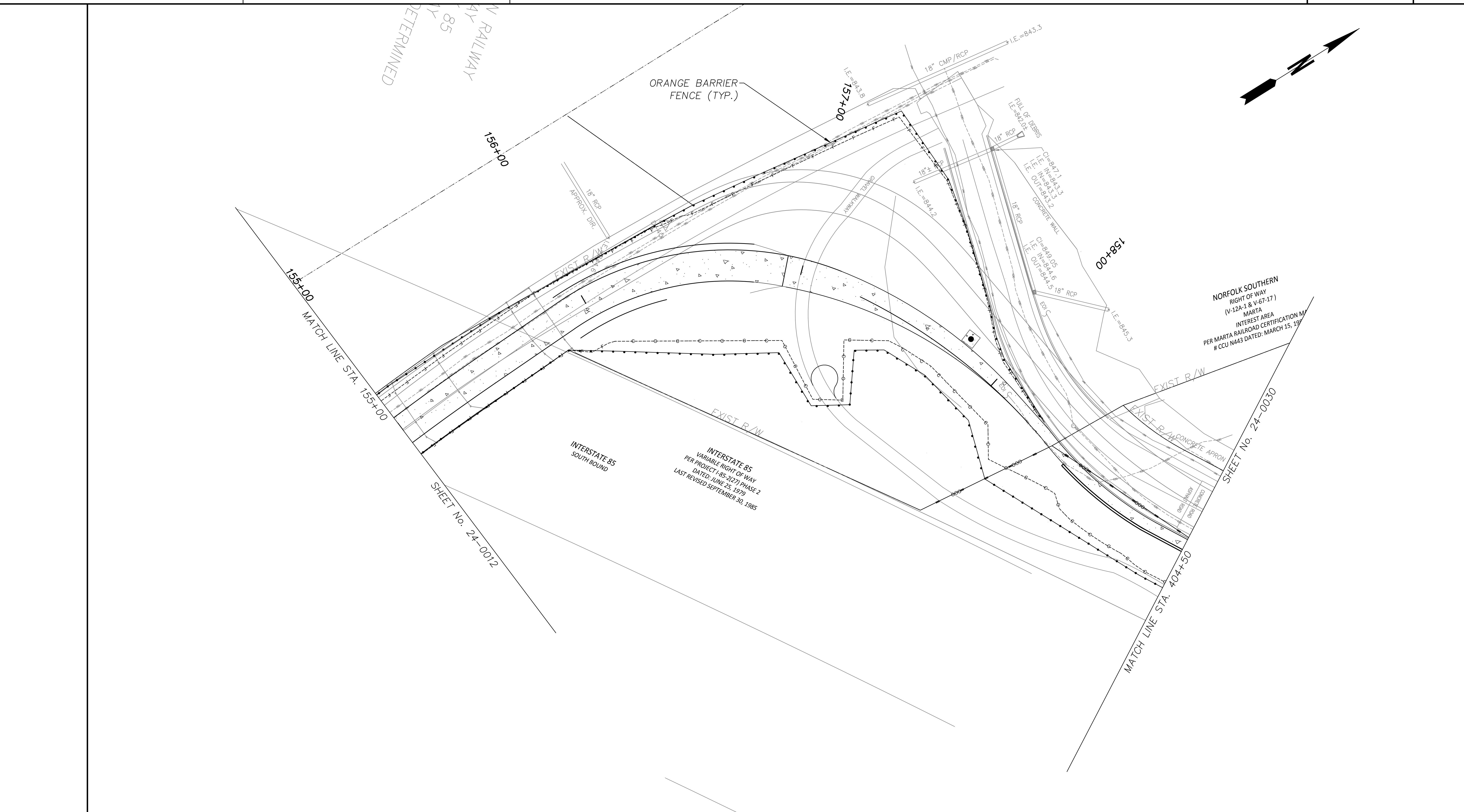
REVISION DATES

NO.	DATE	DESCRIPTION

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 150+00 TO STA. 155+00

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
24-012



X
24-201

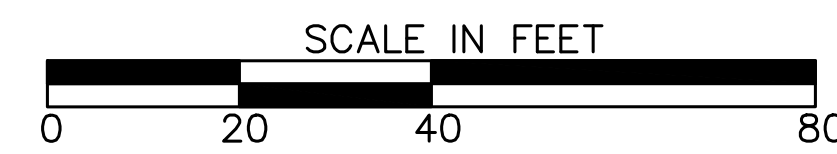
CALL OUTS REFER TO DETAIL
INFORMATION ON UTILITY
CONFLICT SCHEDULE
(SHEET 24-201)



ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
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PHONE: 770-806-0143

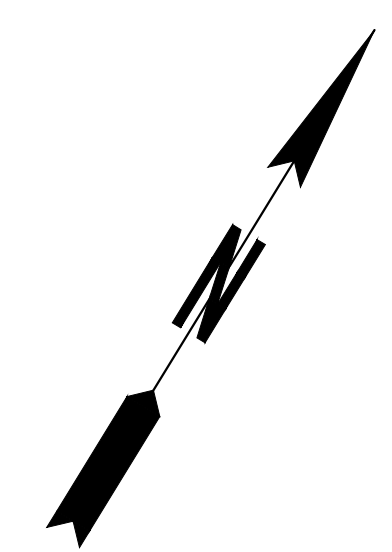
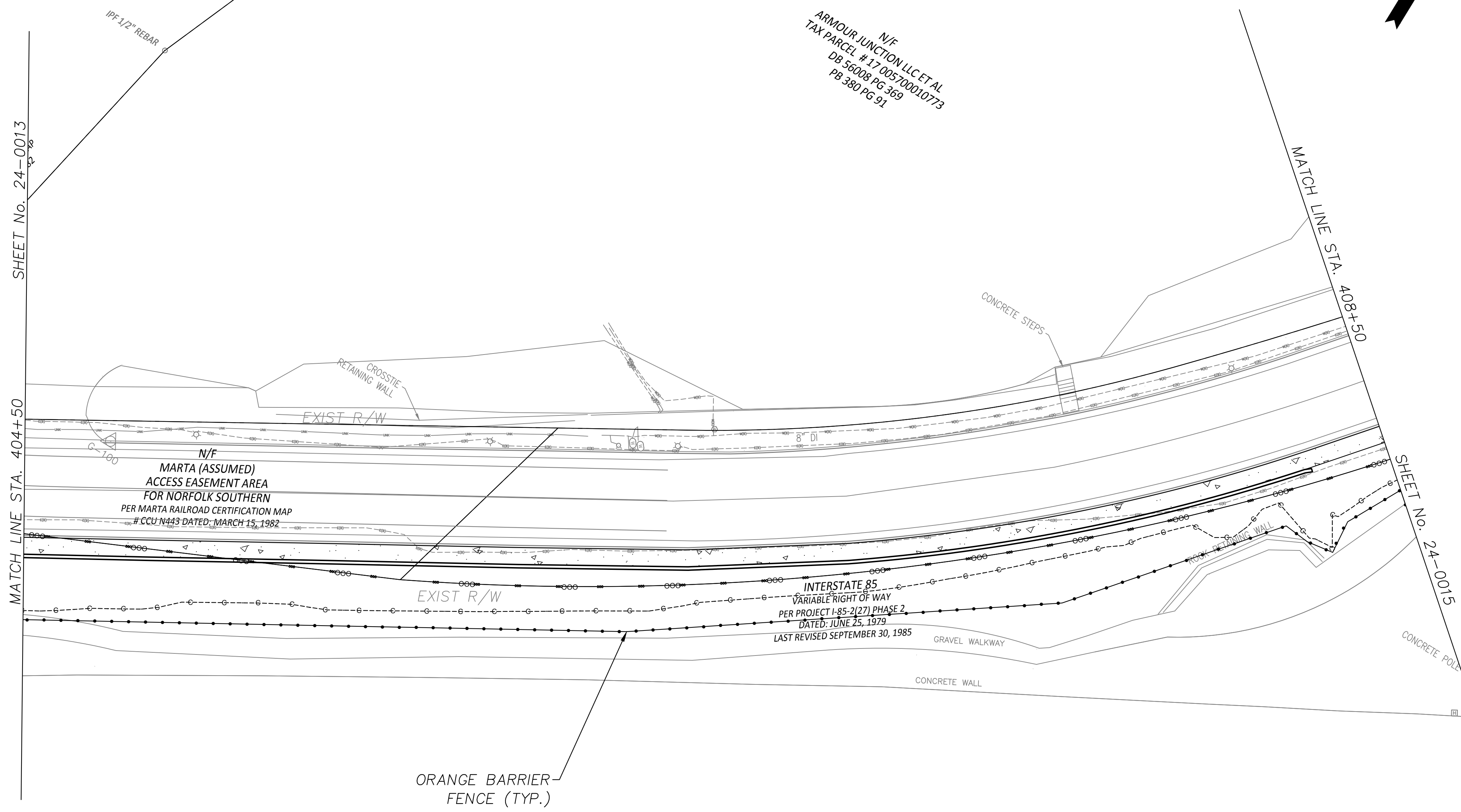


REVISION DATES	

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 155+00 TO STA. 404+50

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-013



X
24-201

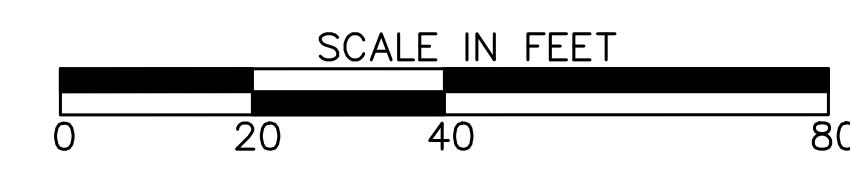
CALL OUTS REFER TO DETAIL
INFORMATION ON UTILITY
CONFLICT SCHEDULE
(SHEET 24-201)



ATLANTA BELTLINE, INC.
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PHONE: 770-806-0143



REVISION DATES	

UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 404+50 TO STA. 408+50

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

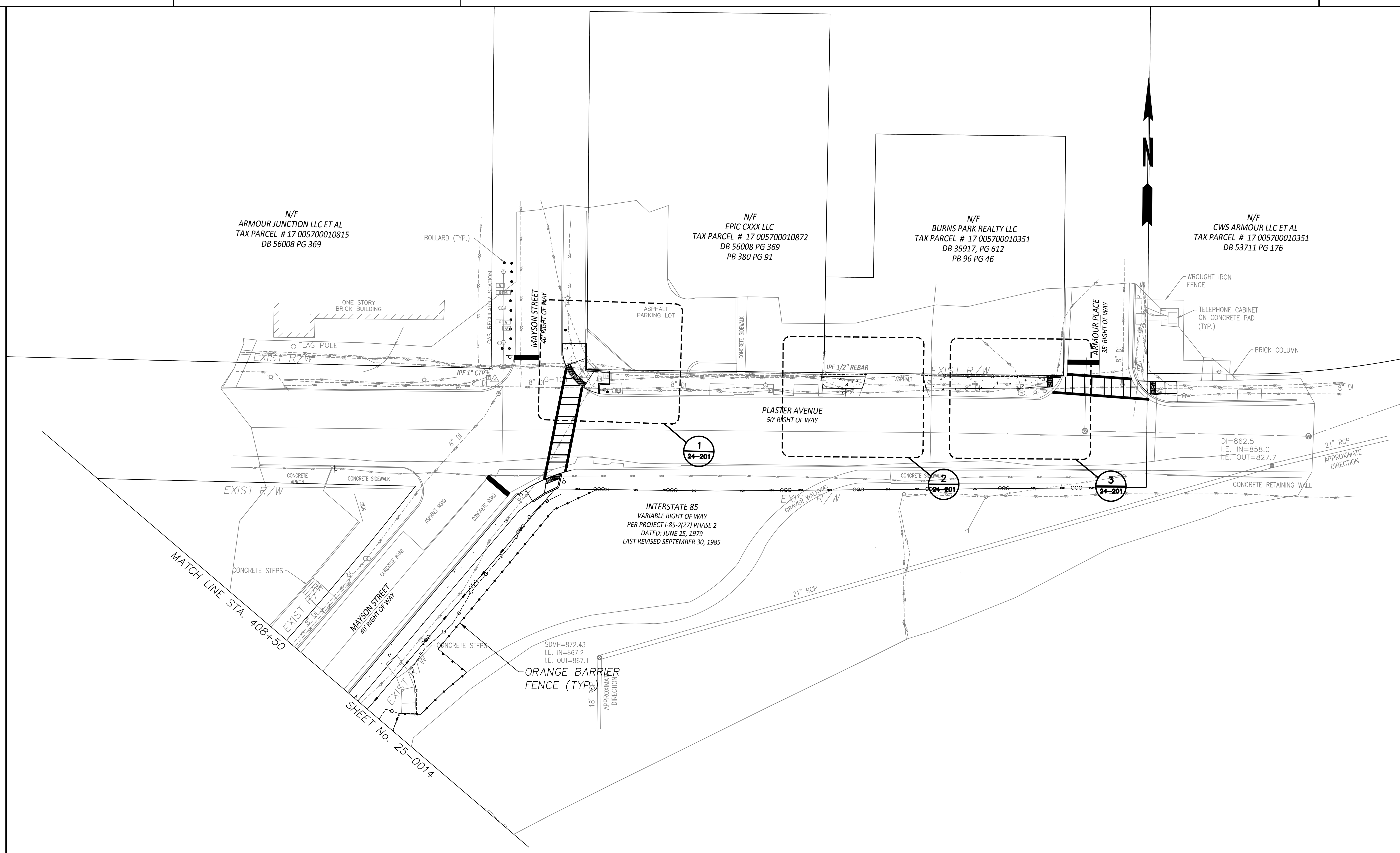
DRAWING No.
24-014

N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17 005700010815
DB 56008 PG 369

N/F
EPIC CXXX LLC
TAX PARCEL # 17 005700010872
DB 56008 PG 369
PB 380 PG 91

N/F
BURNS PARK REALTY LLC
TAX PARCEL # 17 005700010351
DB 35917, PG 612
PB 96 PG 46

N/F
CWS ARMOUR LLC ET AL
TAX PARCEL # 17 005700010351
DB 53711 PG 176



INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

SDMH=872.43
I.E. IN=867.2
I.E. OUT=867.1
ORANGE BARRIER
FENCE (TYP.)

MATCH LINE STA. 408+50

SHEET No. 25-0014

X
24-201

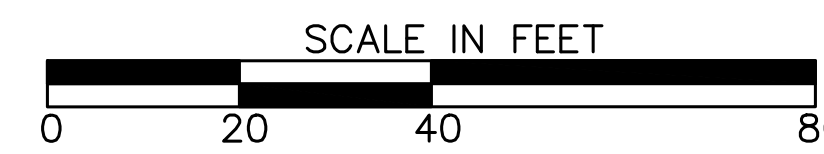
CALL OUTS REFER TO DETAIL
INFORMATION ON UTILITY
CONFLICT SCHEDULE
(SHEET 24-201)



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100 PEACHTREE STREET
SUITE 2300
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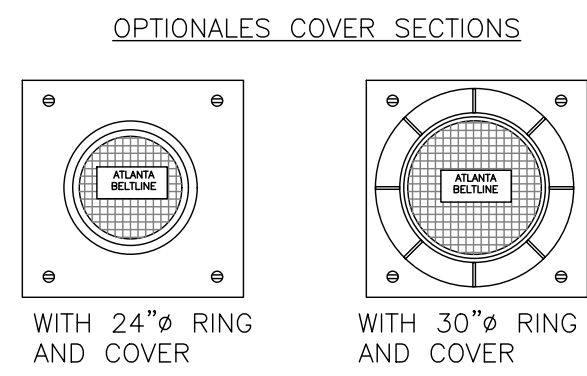
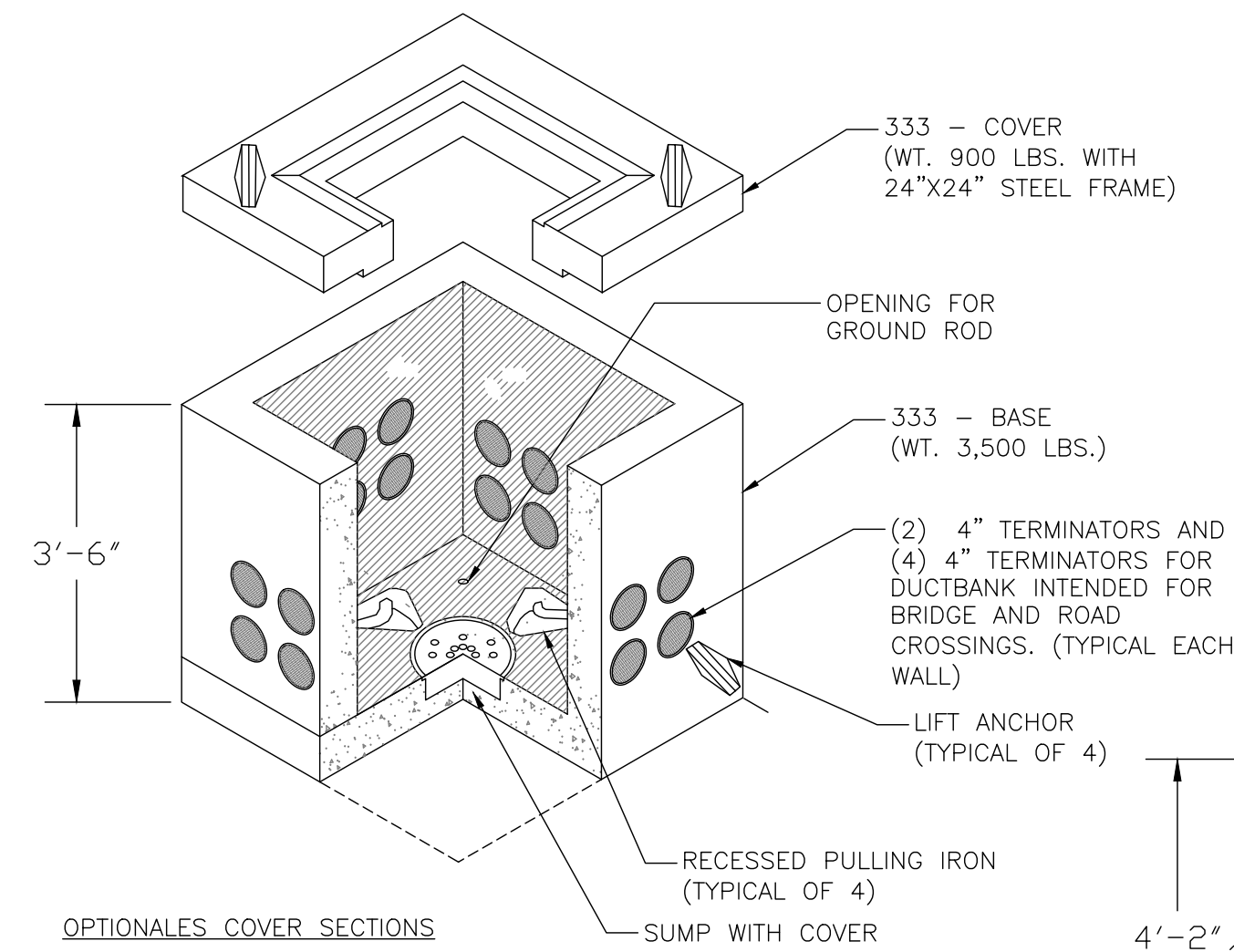
REVISION DATES

NO.	DATE	DESCRIPTION

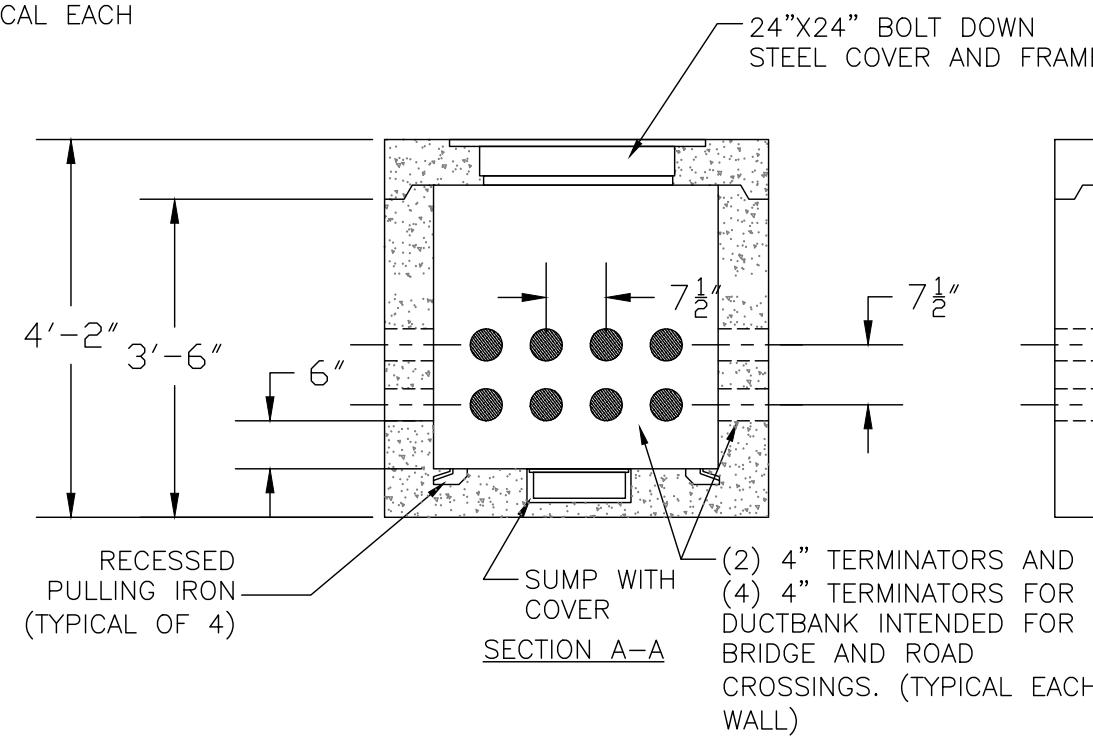
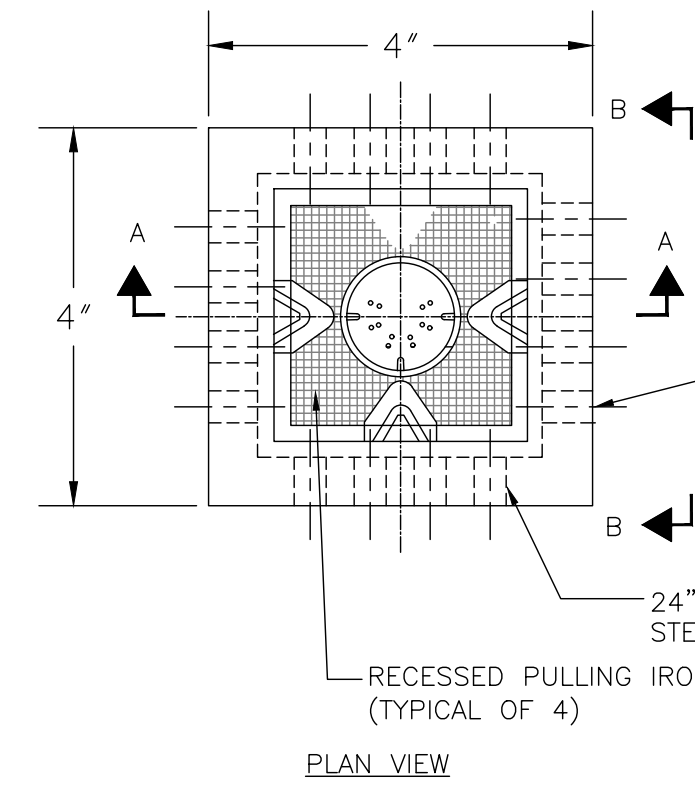
UTILITY PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 408+50 TO STA. END

CHECKED:	DATE:	DRAWING No. 24-015
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

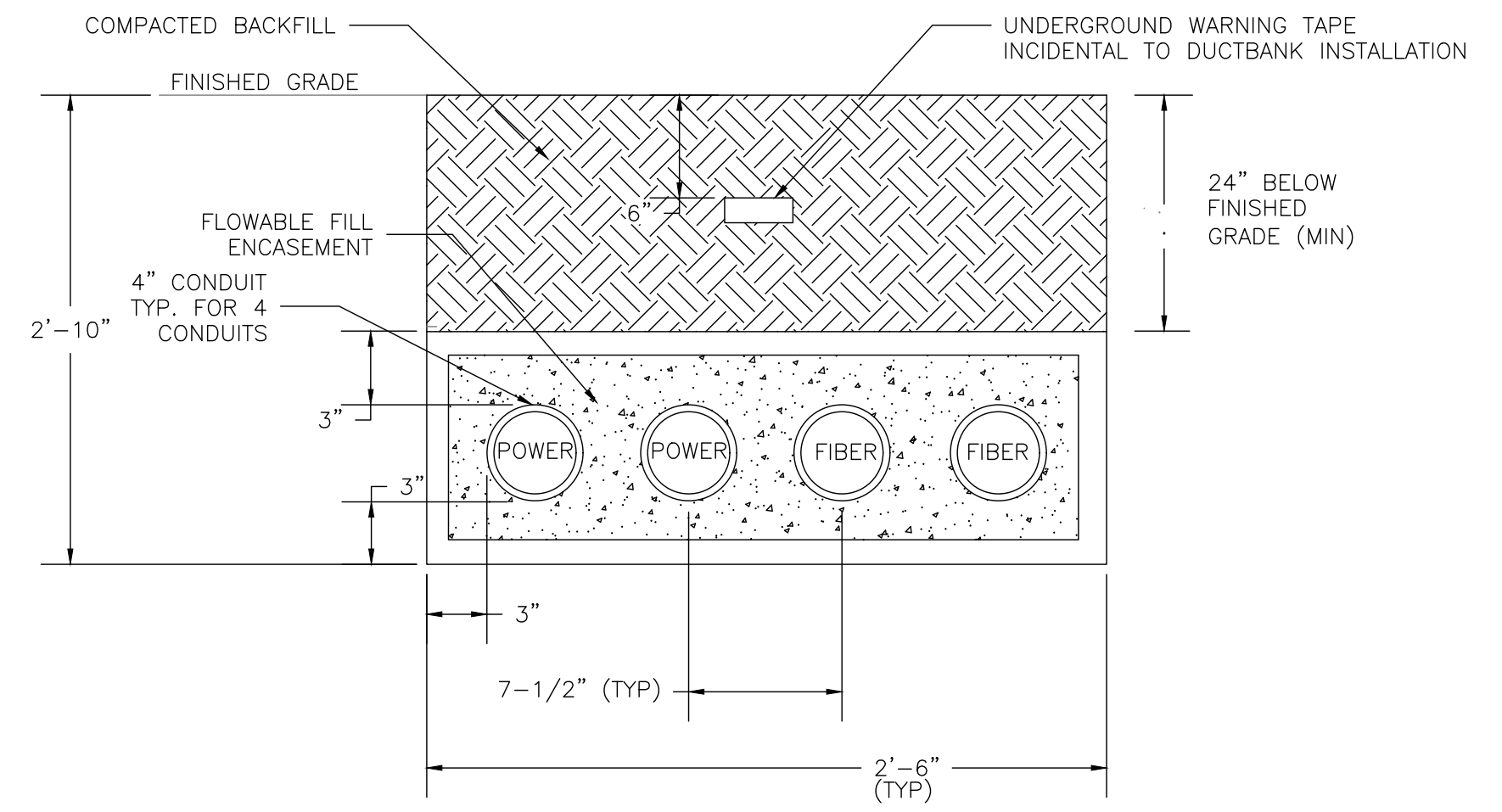
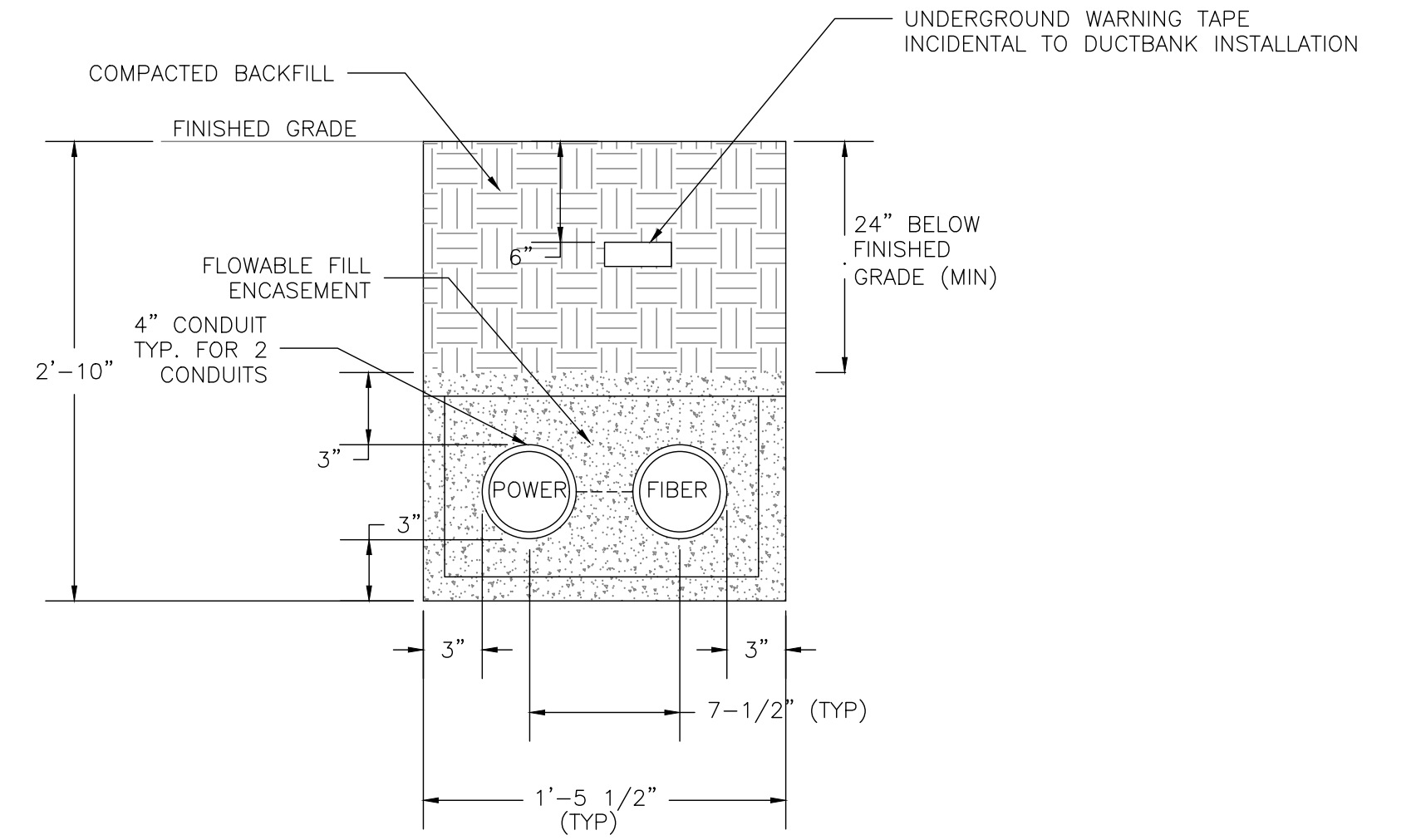
- NOTES:
1. CONCRETE: 28 DAYS COMPRESSIVE STRENGTH $f_c=5,000$ psi
 2. REINFORCING: ASTM A 615, GRADE 60
 3. JOINT SEALANT: BUTYL RUBBER SS-S-00210
 4. DESIGNED FOR MAXIMUM SOIL COVER OF 5'-0" ABOVE BOX
 5. SUPPORTS AN H2O LOADING AS INDICATED BY AASH10
 6. OPTIONAL MH R'QD. AND COVER AVAILABLE AS SPECIFIED BY CUSTOMER, TERM-A-DUCTS INSTEAD OF KNOCKOUTS IF REQUIRED.
 7. UNDERGROUND WARNING TAPE, "INSTALLATION IS INCIDENTAL TO CONDUIT INSTALLATION."
 8. PROVIDE MANHOLE WITH 8 4" KNOCKOUTS ON EACH WALL.



3 ELECTRICAL MANHOLE DETAIL
24-101/N.T.S.



1 2X1 FLOWABLE FILL ENCASED DUCTBANK
24-101/N.T.S.



2 4X1 FLOWABLE FILL ENCASED DUCTBANK AT ROADS AND BRIDGE CROSSINGS
24-101/N.T.S.



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PHONE: 770-906-0143

REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
UTILITIES DETAILS

CHECKED:	DATE:	DRAWING No. 24-101
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

QUANTITY TAKEOFF			
ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
600-0001	FLOWABLE FILL	CY	110
611-8055	ADJUST MINOR STRUCTURES TO GRADE	EA	14
682-6224	CONDUIT, NONMETAL, TP 2, 4 IN	FT	6620
681-9021	ELECTRICAL MANHOLE (SEE DETAIL DWG #24-101)	EA	4

Plan Sheet #	View #	ID Tag	Detail Sheet #	Description	Utility / Comments
24-001	1			30" Drainage Pipe	
24-002	1			Existing Utility Pole	To Remain
24-003					
24-004	1			Gas Line Crossing	
24-005	2			18" Drainage Pipe Crossing	
	4			Existing Gas Meter	Adjust To Grade
	4			Existing Gas Valve	Adjust To Grade
24-006					
24-007	1			Existing 42" Drainage Pipe Crossing	
24-008					
24-009					
24-010					
24-011					
24-012					
24-013					
24-014					
24-015	1			Existing Utilities	Adjust To Grade
	2			Existing Utilities	Adjust To Grade
	3			Existing Utilities	Adjust To Grade



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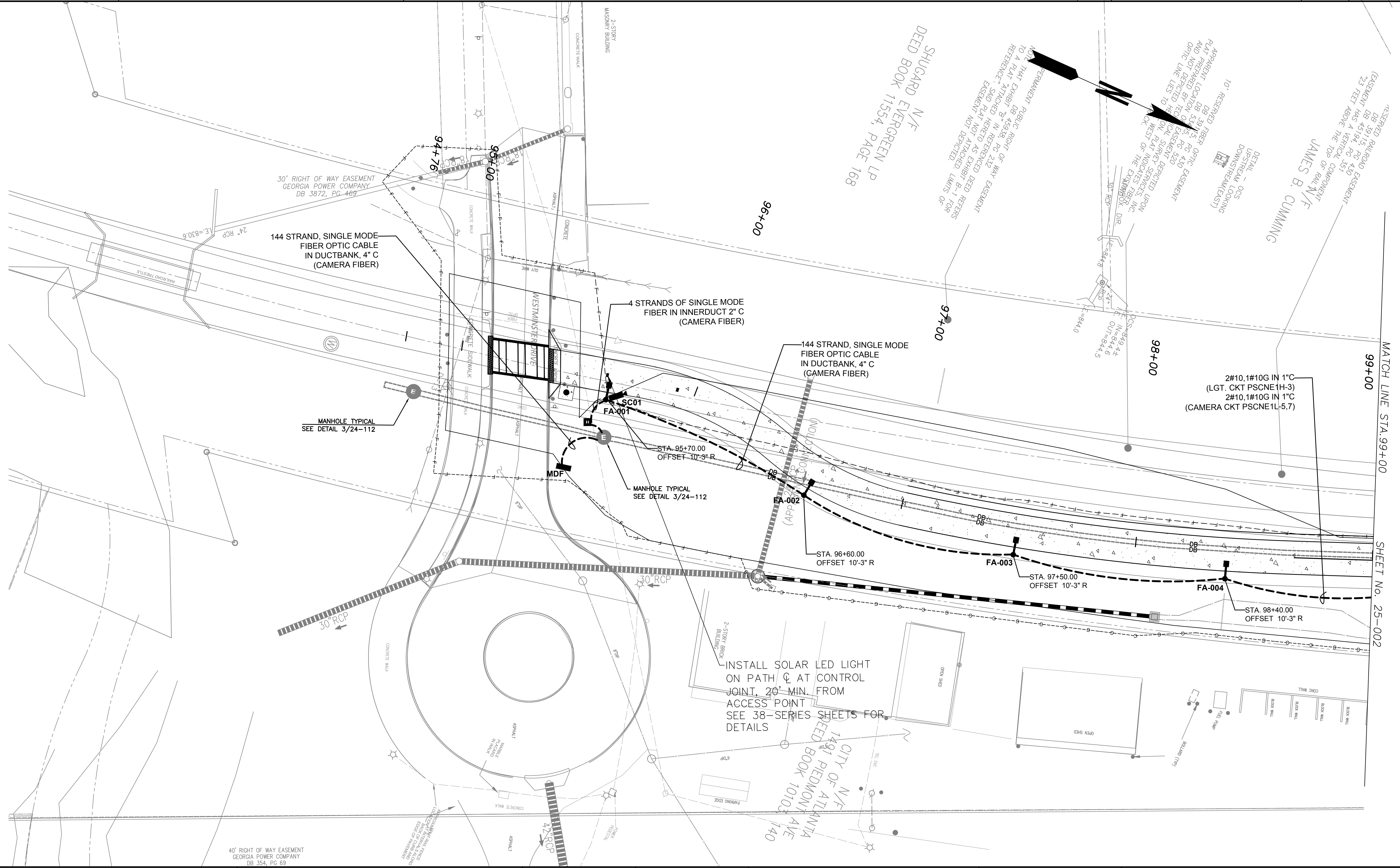
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
 UTILITIES DETAILS

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
24-201



144 STRAND, SINGLE MODE
FIBER OPTIC CABLE
IN DUCTBANK, 4" C
(CAMERA FIBER)

4 STRANDS OF SINGLE MODE
FIBER IN INNERDUCT 2" C
(CAMERA FIBER)

144 STRAND, SINGLE MODE
FIBER OPTIC CABLE
IN DUCTBANK, 4" C
(CAMERA FIBER)

2#10,1#10G IN 1" C
(LGT. CKT PSCNE1H-3)
2#10,1#10G IN 1" C
(CAMERA CKT PSCNE1L-5,7)

INSTALL SOLAR LED LIGHT
ON PATH C AT CONTROL
JOINT, 20' MIN. FROM
ACCESS POINT
SEE 38-SERIES SHEETS FOR
DETAILS

40' RIGHT OF WAY EASEMENT
GEORGIA POWER COMPANY
DB 354, PG 69

30' RIGHT OF WAY EASEMENT
GEORGIA POWER COMPANY
DB 3872, PG 469

SHUGARD EVERGREEN LP
N/F
DEED BOOK 11554, PAGE 168

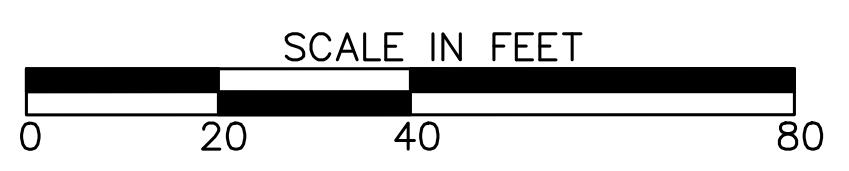
JAMES B. CUMMING
N/F

CITY OF ATLANTA
1491 PIEDMONT AVE
DEED BOOK 10103, PAGE 140
N/F



Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

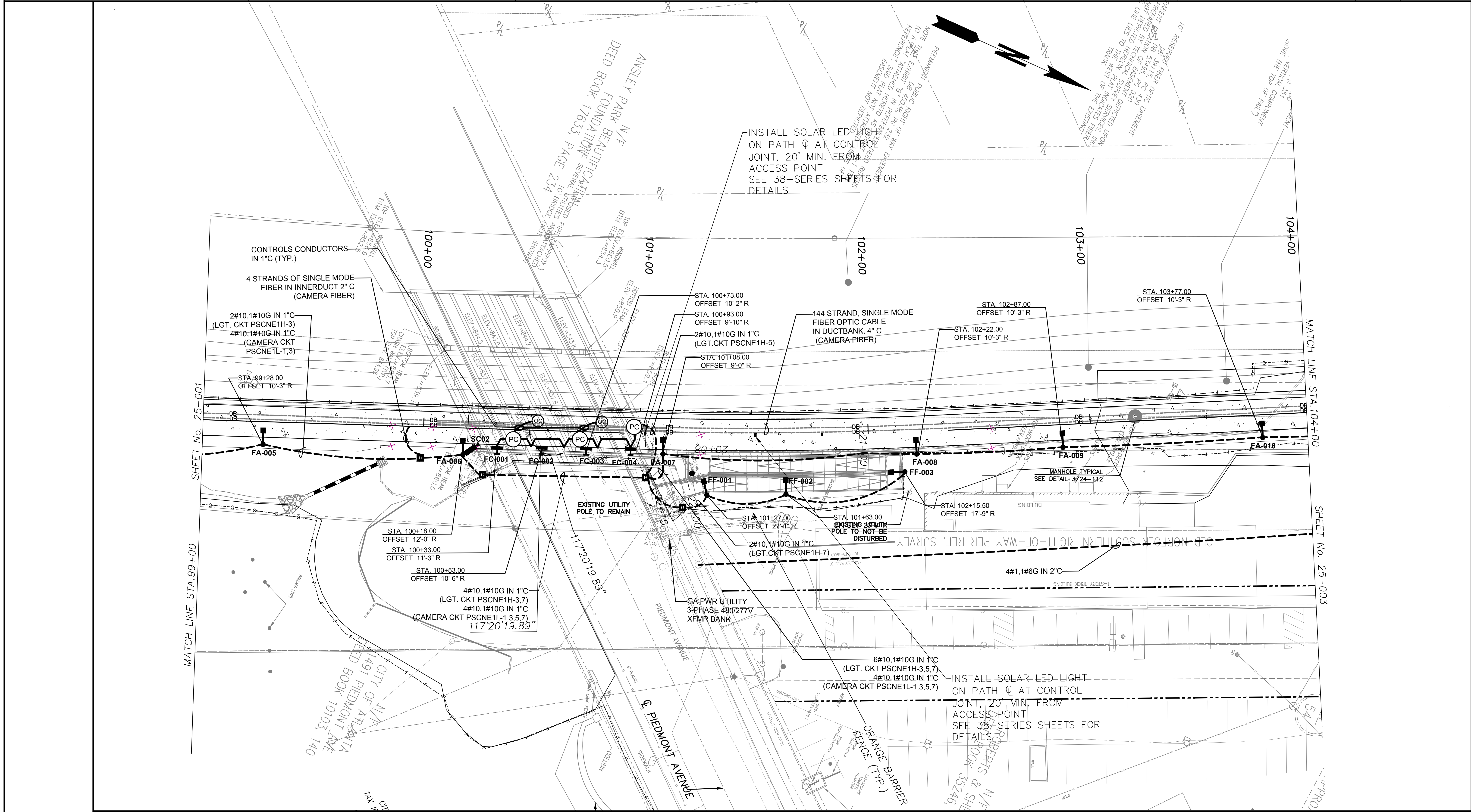
RPA
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143



REVISION DATES	

LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. START TO STA. 99+00

CHECKED:	DATE:	DRAWING No. 25-001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 99+00

MATCH LINE STA. 104+00

REVISION DATES

GEORGIA REGISTERED PROFESSIONAL ENGINEER

NO. 2155

ROBERTS & SHEPHERD

35246

Atlanta BeltLine

ATLANTA BELTLINE, INC.

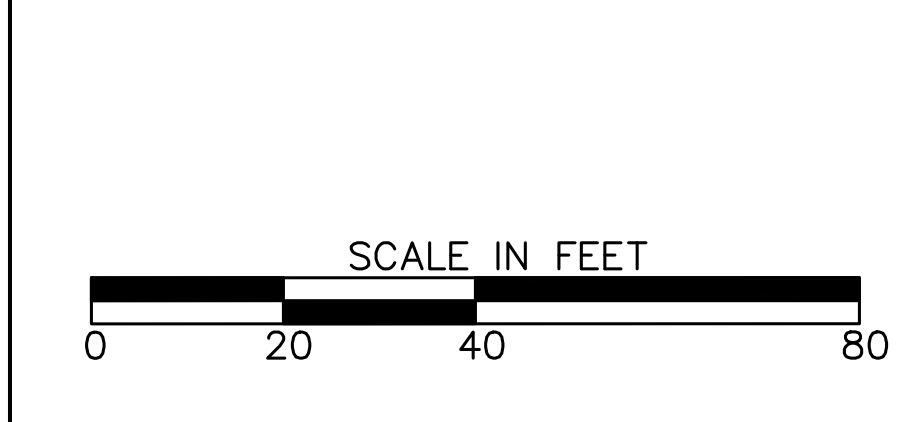
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

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ENGINEERING CONSULTANTS

1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143

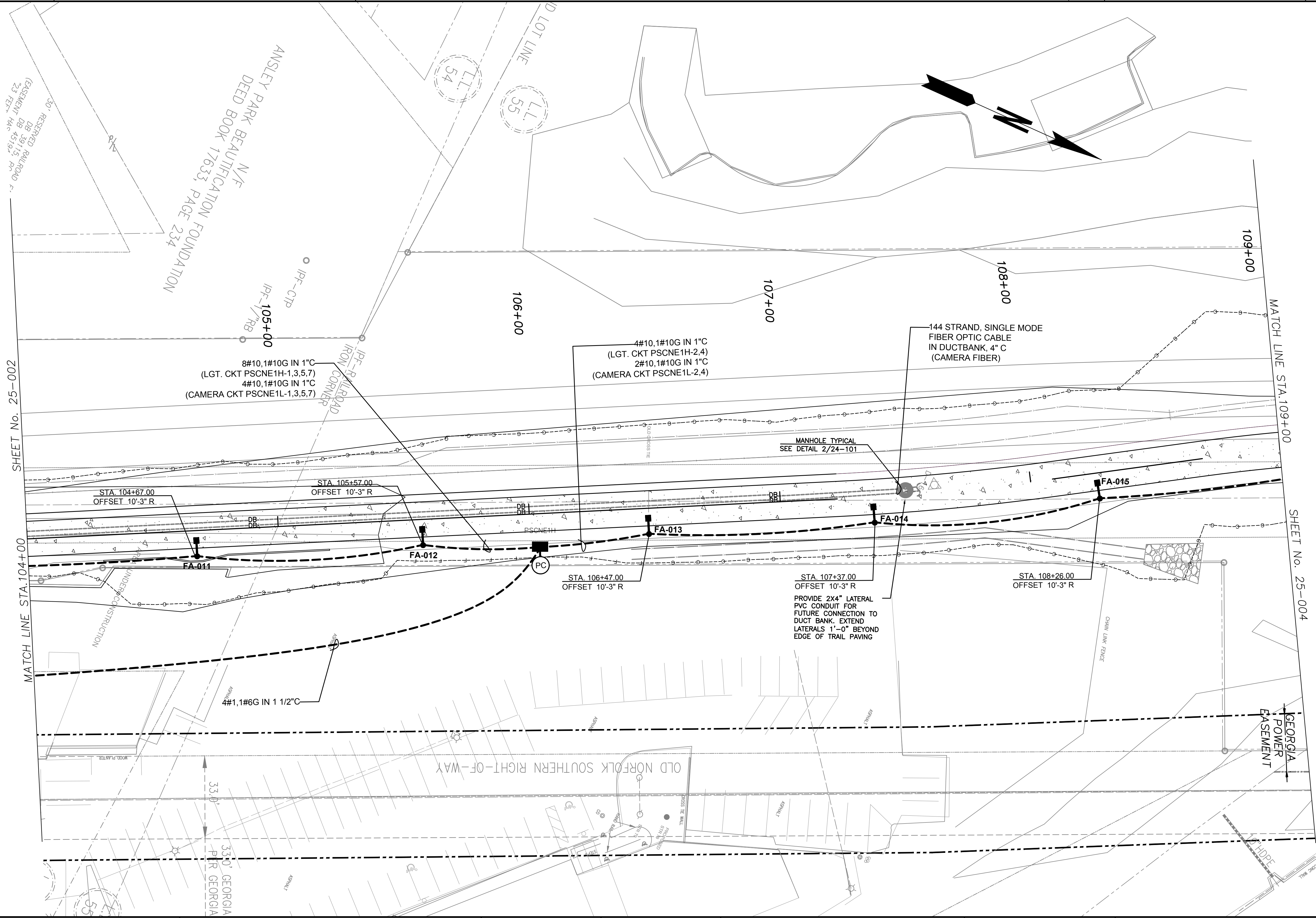


LIGHTING PLANS

ATLANTA BELTLINE NORTHEAST TRAIL

STA. 99+00 TO STA. 104+00

CHECKED:	DATE:	DRAWING No. 25-002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



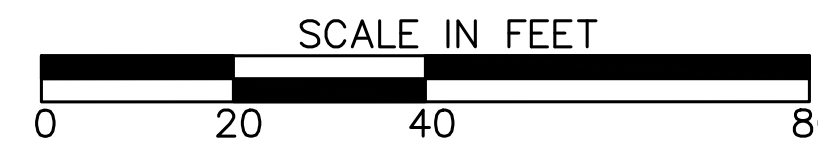
CONTRACTOR TO ADJUST LOCATION OF LIGHT FIXTURES FA-012, FA-013 AND FA-014 TO AVOID POTENTIAL CONFLICTS WITH DRAINAGE PIPES.



ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606



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ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-806-0143

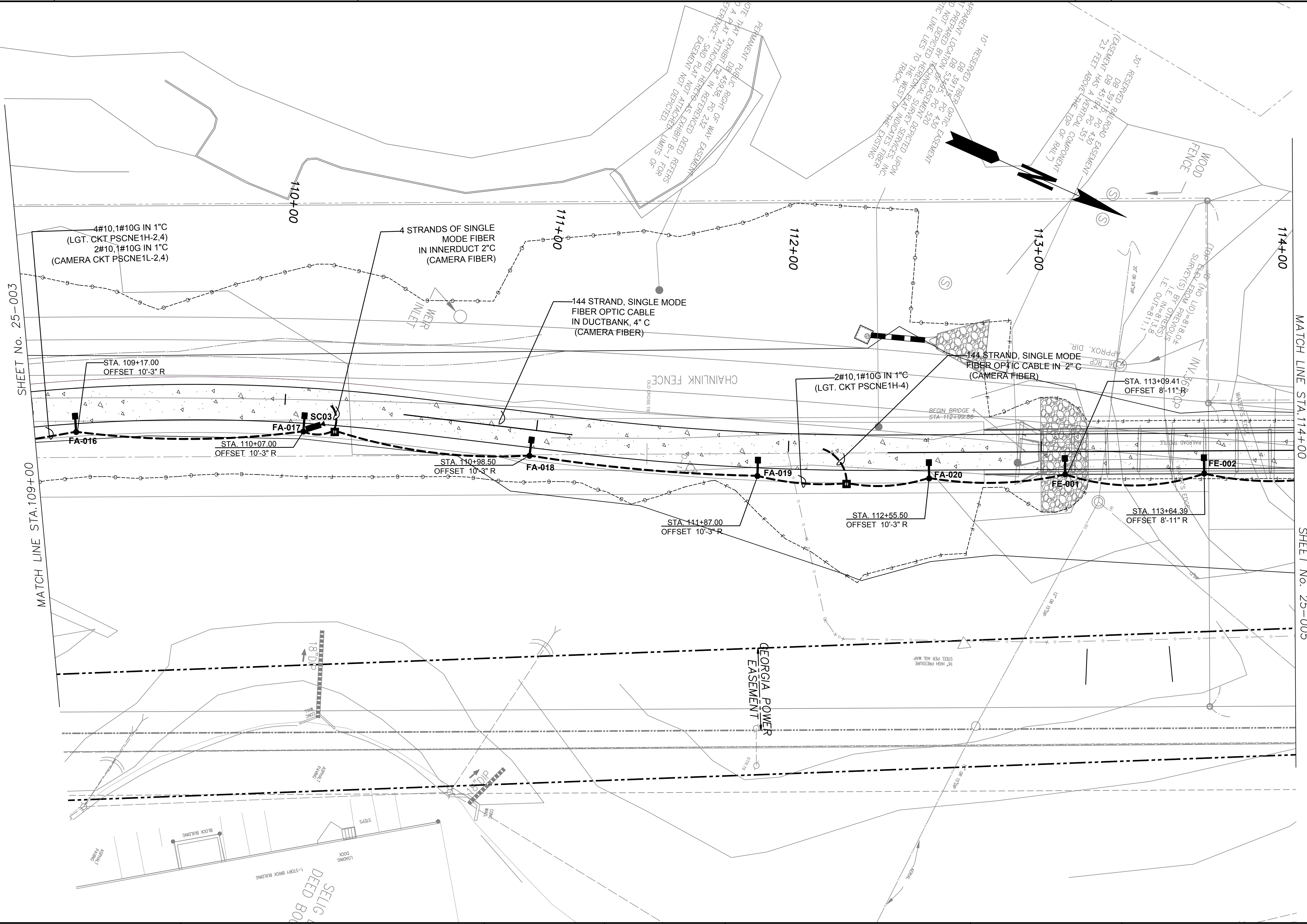


REVISION DATES	

LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 104+00 TO STA. 109+00

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
25-003



SHEET No. 25-003

MATCH LINE STA. 109+00

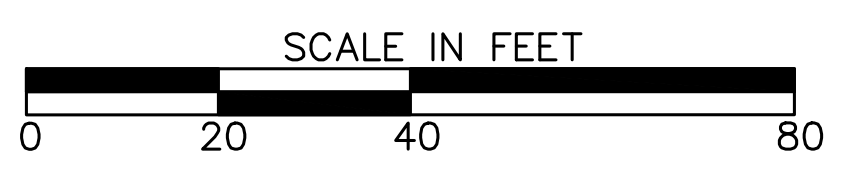
MATCH LINE STA. 114+00

SHEET No. 25-005



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 100 PEACHTREE STREET
 SUITE 2300
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 FAX: (404) 477-3606

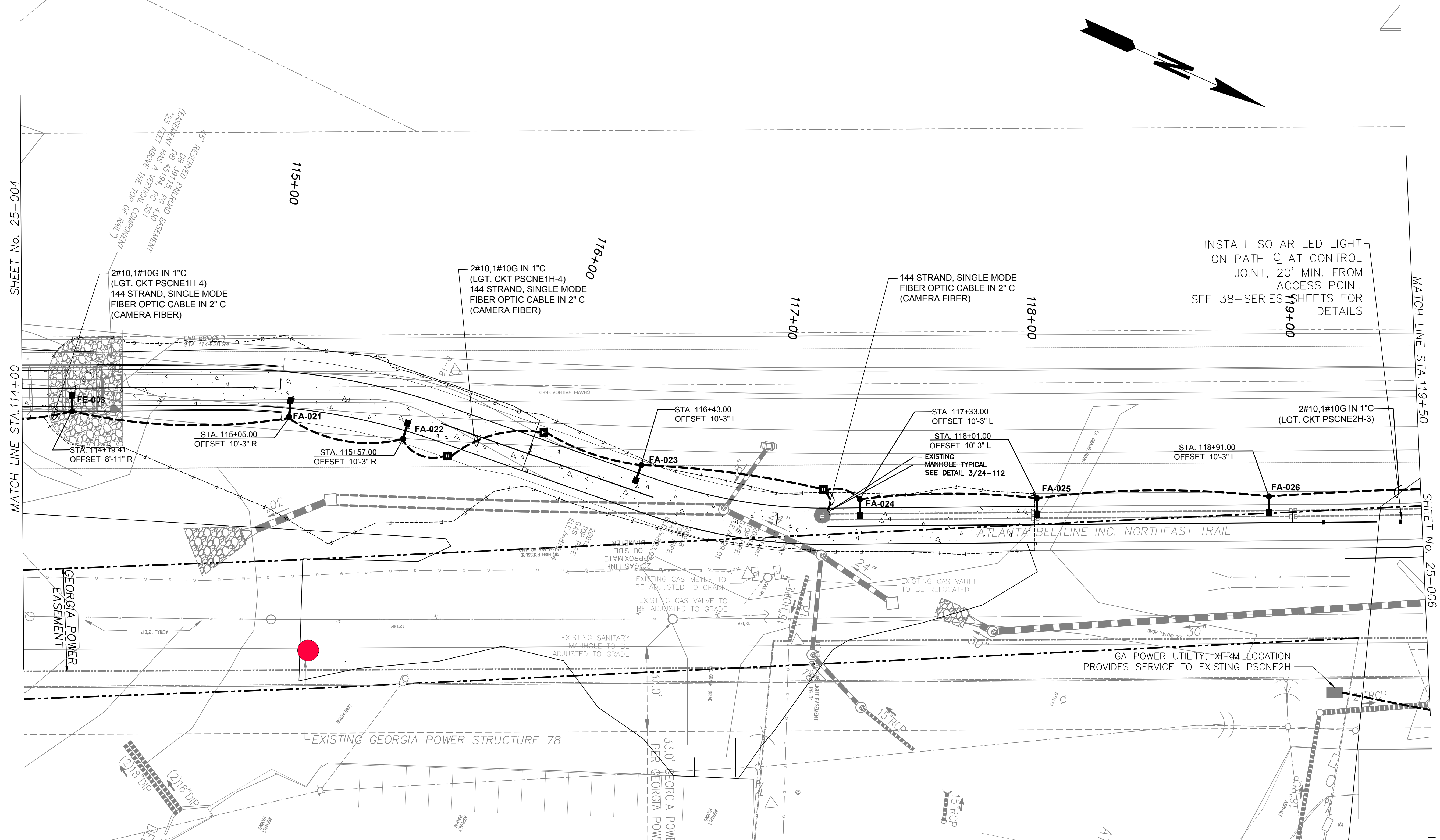
RPA
 R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-906-0143



REVISION DATES	

LIGHTING PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 109+00 TO STA. 114+00

CHECKED:	DATE:	DRAWING No. 25-004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 114+00 SHEET No. 25-004

MATCH LINE STA. 119+50 SHEET No. 25-006

45' RESERVED RAILROAD EASEMENT
 DB 391.15, PG 430
 DB 451.03, PG 430
 DB 351
 (EASEMENT HAS A VERTICAL COMPONENT
 23 FEET ABOVE THE TOP OF RAIL)

INSTALL SOLAR LED LIGHT
 ON PATH ϕ AT CONTROL
 JOINT, 20' MIN. FROM
 ACCESS POINT
 SEE 38-SERIES SHEETS FOR
 DETAILS

2#10, 1#10G IN 1" C
 (LGT. CKT PSCNE1H-4)
 144 STRAND, SINGLE MODE
 FIBER OPTIC CABLE IN 2" C
 (CAMERA FIBER)

2#10, 1#10G IN 1" C
 (LGT. CKT PSCNE1H-4)
 144 STRAND, SINGLE MODE
 FIBER OPTIC CABLE IN 2" C
 (CAMERA FIBER)

144 STRAND, SINGLE MODE
 FIBER OPTIC CABLE IN 2" C
 (CAMERA FIBER)

2#10, 1#10G IN 1" C
 (LGT. CKT PSCNE2H-3)

STA. 115+05.00
 OFFSET 10'-3" R

STA. 115+57.00
 OFFSET 10'-3" R

STA. 116+43.00
 OFFSET 10'-3" L

STA. 117+33.00
 OFFSET 10'-3" L

STA. 118+01.00
 OFFSET 10'-3" L

STA. 118+91.00
 OFFSET 10'-3" L

STA. 114+19.41
 OFFSET 8'-11" R

GEORGIA POWER
 EASEMENT

EXISTING GAS VALVE
 TO BE ADJUSTED TO GRADE

EXISTING SANITARY
 MANHOLE TO BE
 ADJUSTED TO GRADE

GA POWER UTILITY, XFRM LOCATION
 PROVIDES SERVICE TO EXISTING PSCNE2H

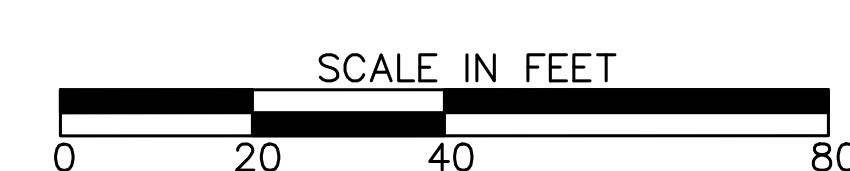
EXISTING GEORGIA POWER STRUCTURE 78

33.0' GEORGIA POWER
 PER GEORGIA POWER



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 SUITE 2300
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 FAX: (404) 477-3606

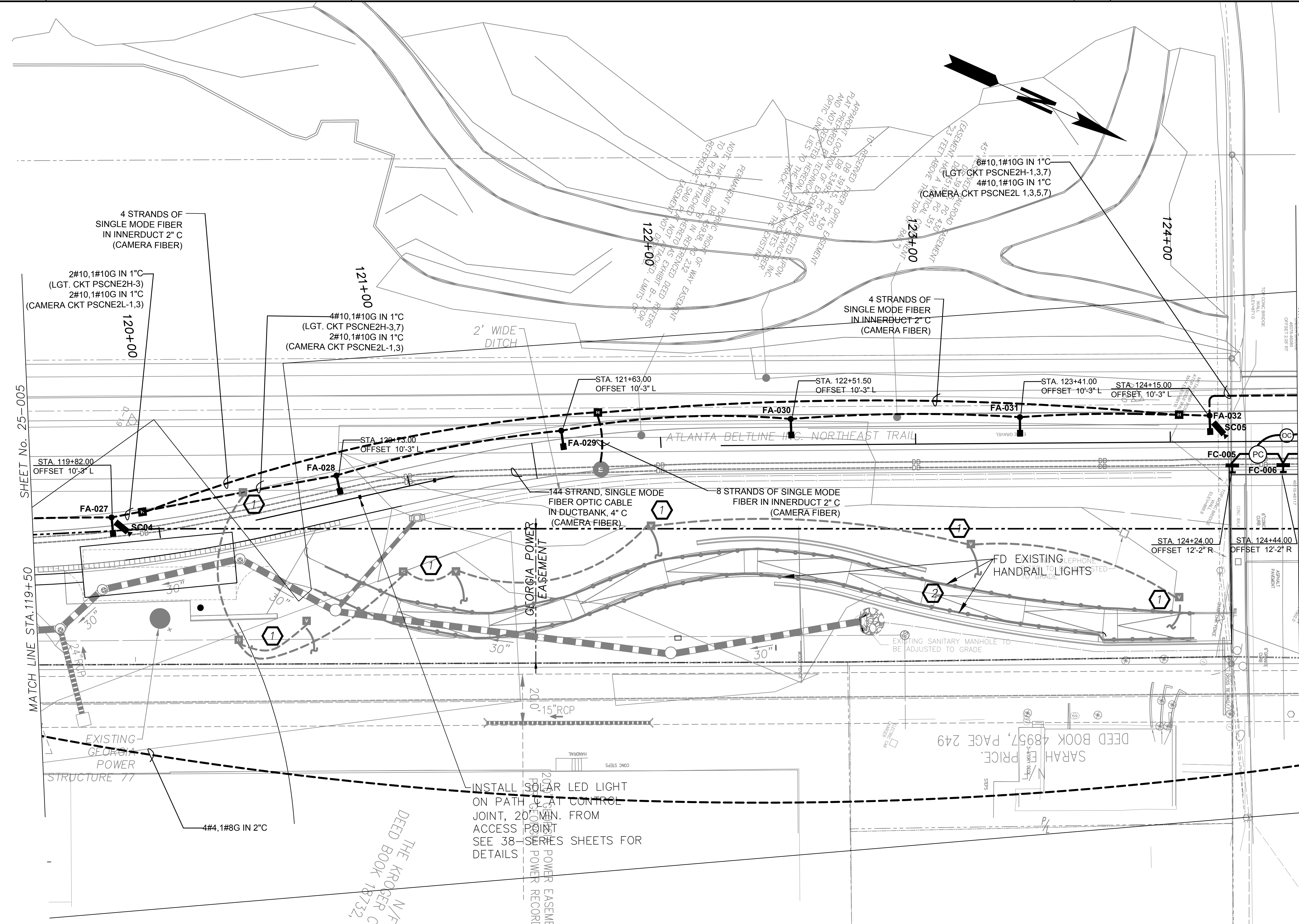
RPA
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 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-906-0143



REVISION DATES	

LIGHTING PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 114+00 TO STA. 119+50

CHECKED:	DATE:	DRAWING No. 25-005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



- KEY NOTES:**
- 1. EXISTING HANDHOLES AND VAULTS INSTALLED UNDER PHASE 1.
 - 2. EXISTING HANDRAIL AND HANDRAIL LIGHTS INSTALLED UNDER PHASE 1.

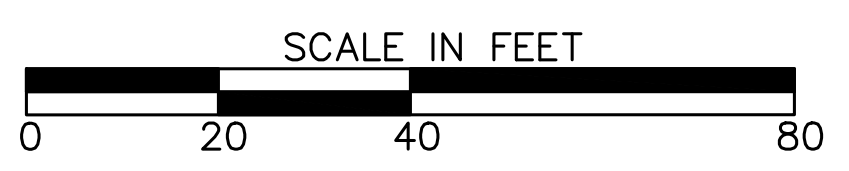


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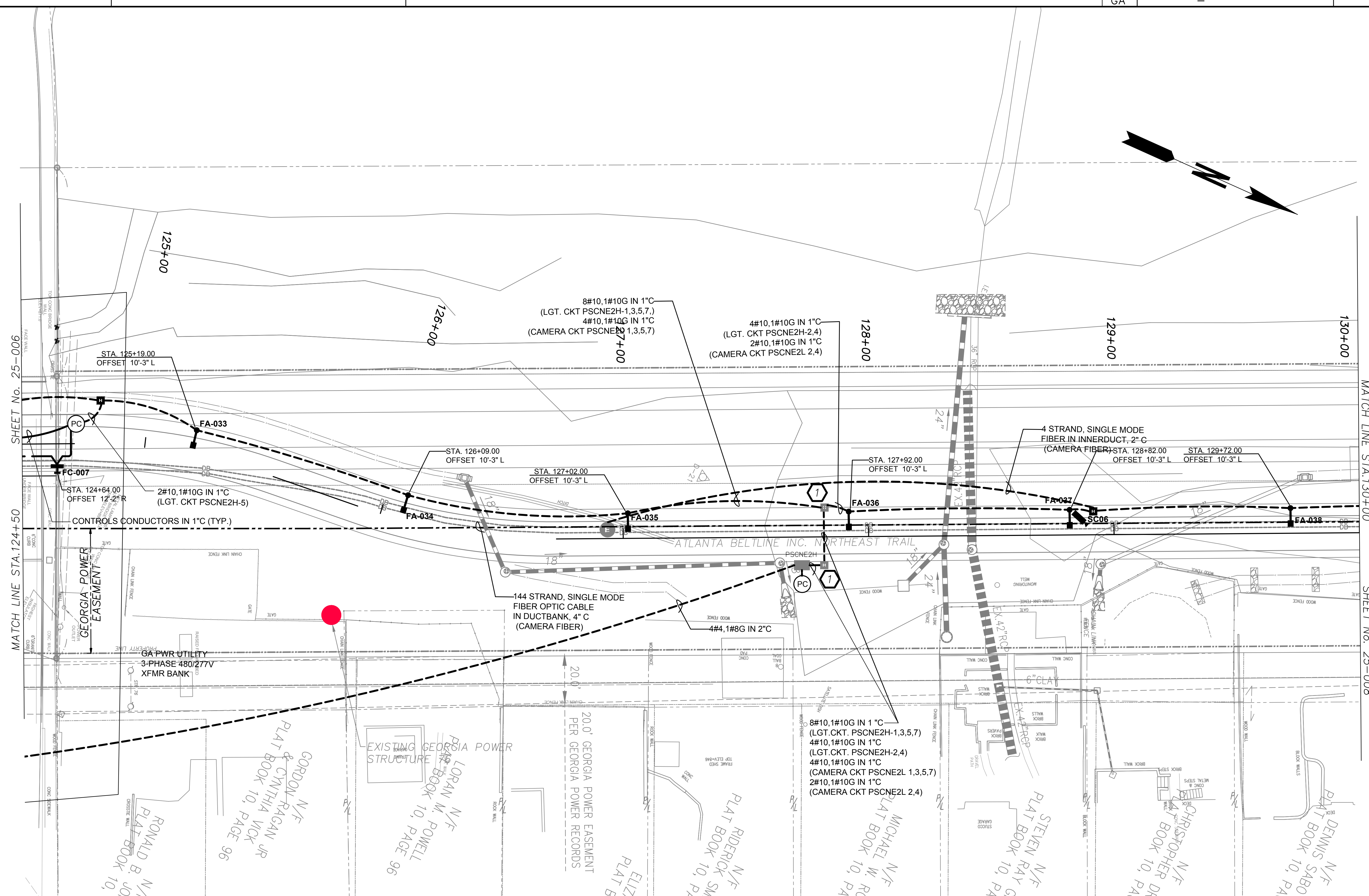
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-806-0143



REVISION DATES	

LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 119+50 TO STA. 124+50

CHECKED:	DATE:	DRAWING No. 25-006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 25-006

MATCH LINE STA. 130+00

MATCH LINE STA. 124+50

SHEET No. 25-008

KEY NOTES:

1. EXISTING POWER SUPPLY PSCNE2H AND HANDHOLES INSTALLED UNDER PHASE 1.



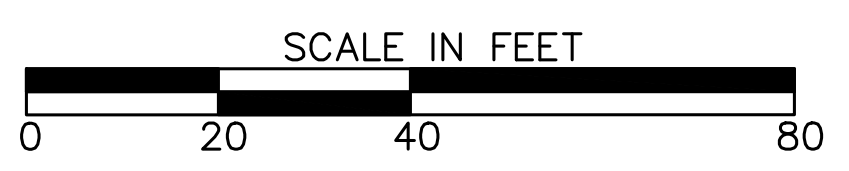
Atlanta BeltLine

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ENGINEERING CONSULTANTS

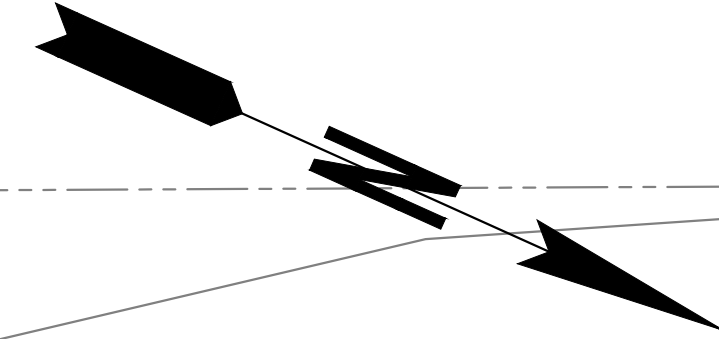
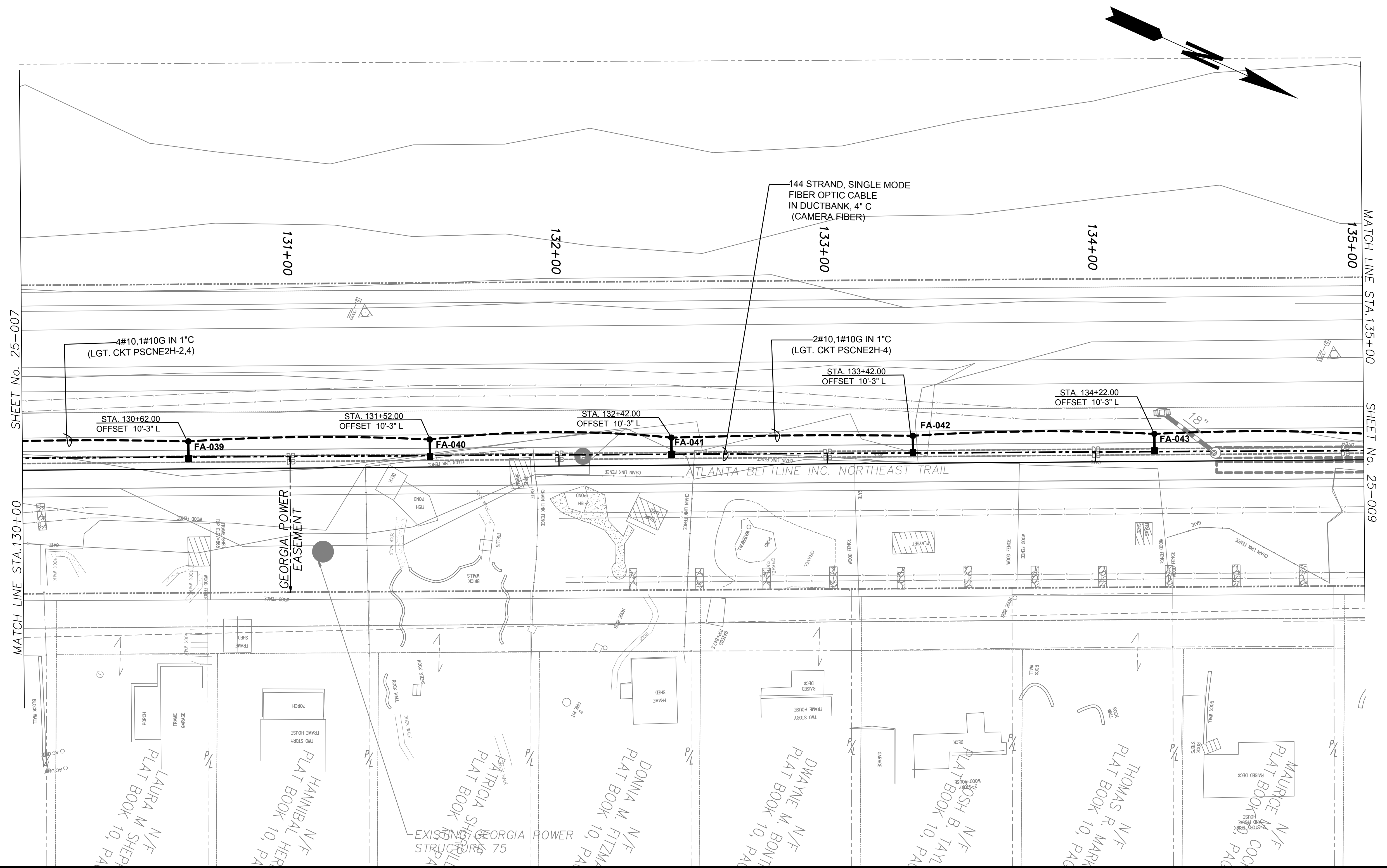
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-806-0143

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FAX: (404) 477-3606



REVISION DATES		LIGHTING PLANS ATLANTA BELTLINE NORTHEAST TRAIL STA. 124+50 TO STA. 130+00	
		CHECKED:	DATE:
		BACKCHECKED:	DATE:
		CORRECTED:	DATE:
		VERIFIED:	DATE:

DRAWING No.
25-007



SHEET No. 25-007

MATCH LINE STA. 130+00

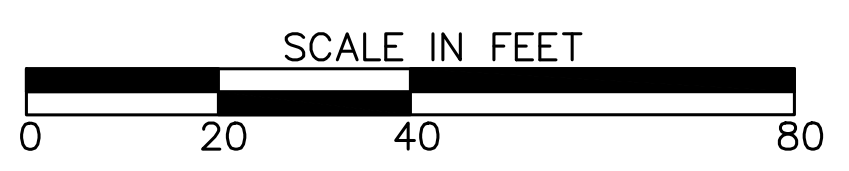
MATCH LINE STA. 135+00

SHEET No. 25-009



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 100 PEACHTREE STREET
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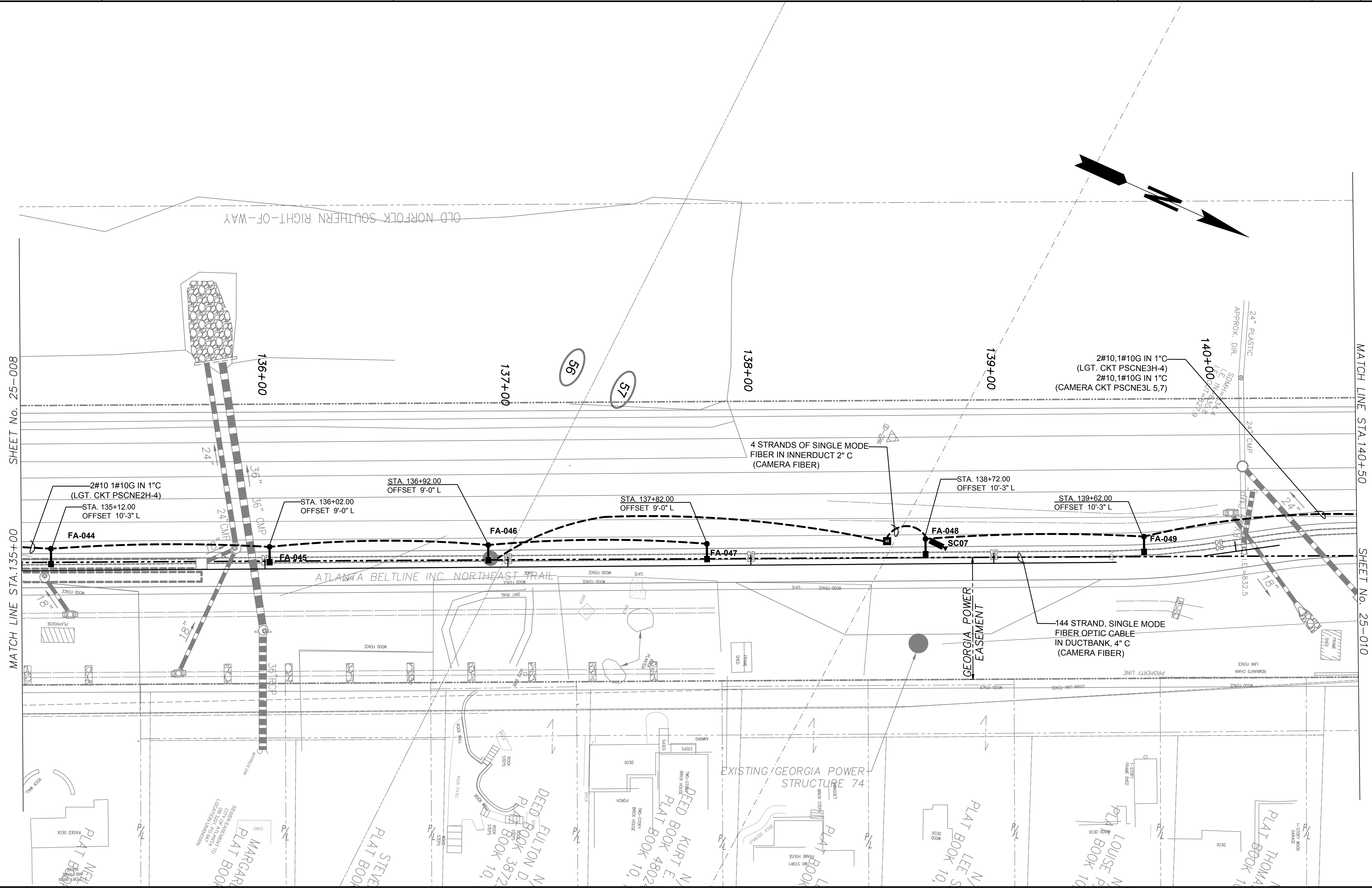
RPA
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 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143



REVISION DATES	

LIGHTING PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 130+00 TO STA. 135+00

CHECKED:	DATE:	DRAWING No. 25-008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 135+00 SHEET No. 25-008

MATCH LINE STA. 140+50 SHEET No. 25-010

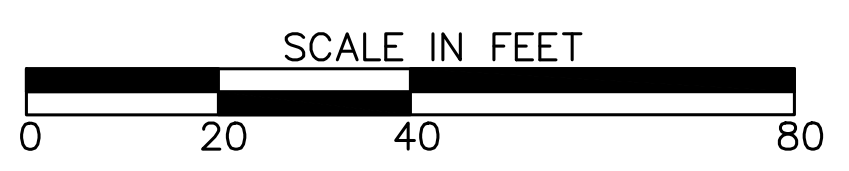


Atlanta BeltLine

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FAX: (404) 477-3606

RPA

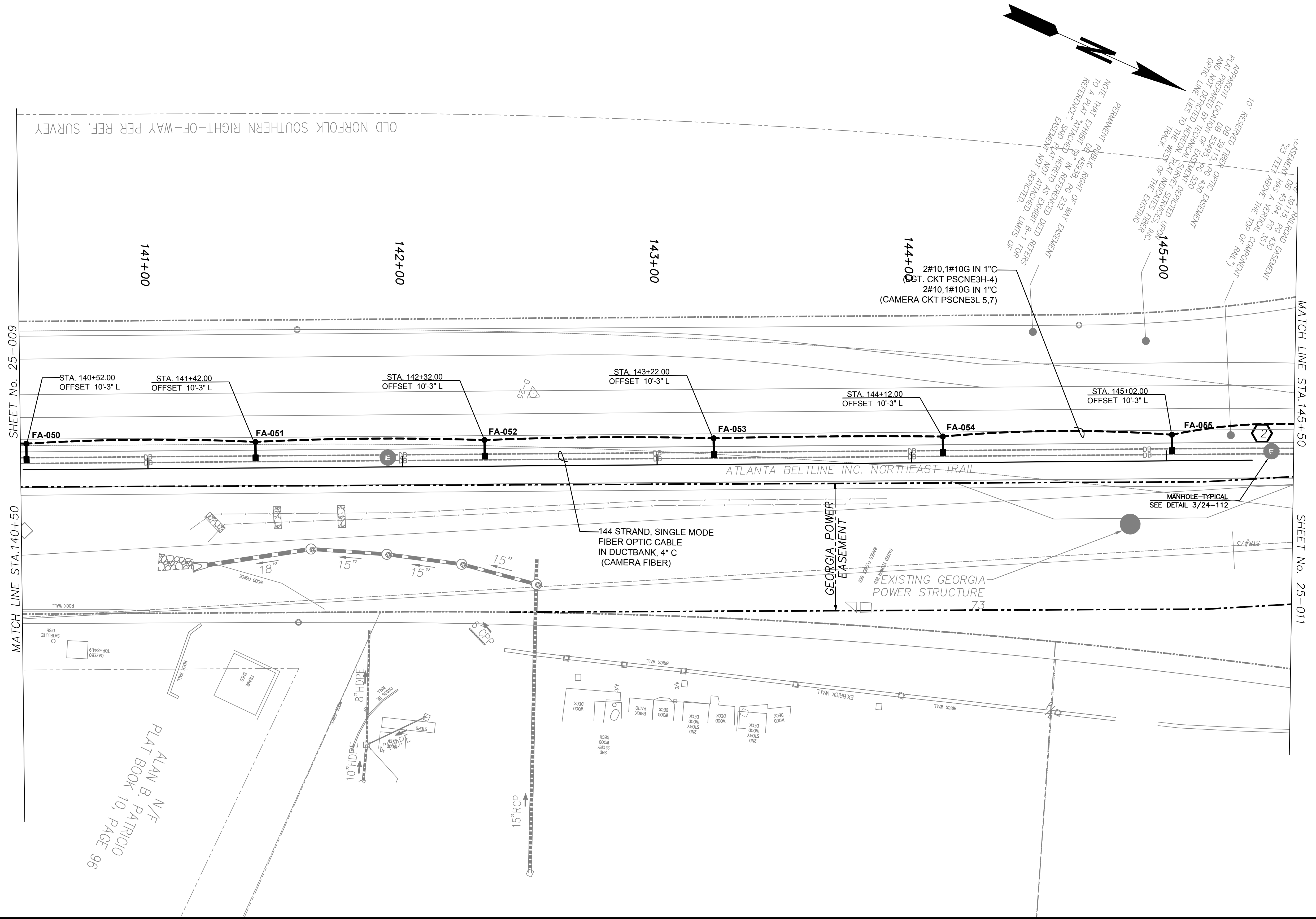
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143



REVISION DATES	

LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 135+00 TO STA. 140+00

CHECKED:	DATE:	DRAWING No. 25-009
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 25-009

MATCH LINE STA. 140+50

MATCH LINE STA. 145+50

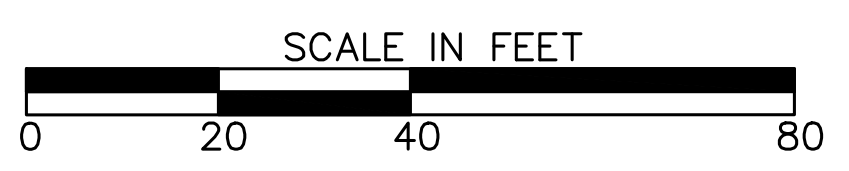
SHEET No. 25-011

ALAN B. PATRICK
N/F
PLAT BOOK 10, PAGE 96



Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

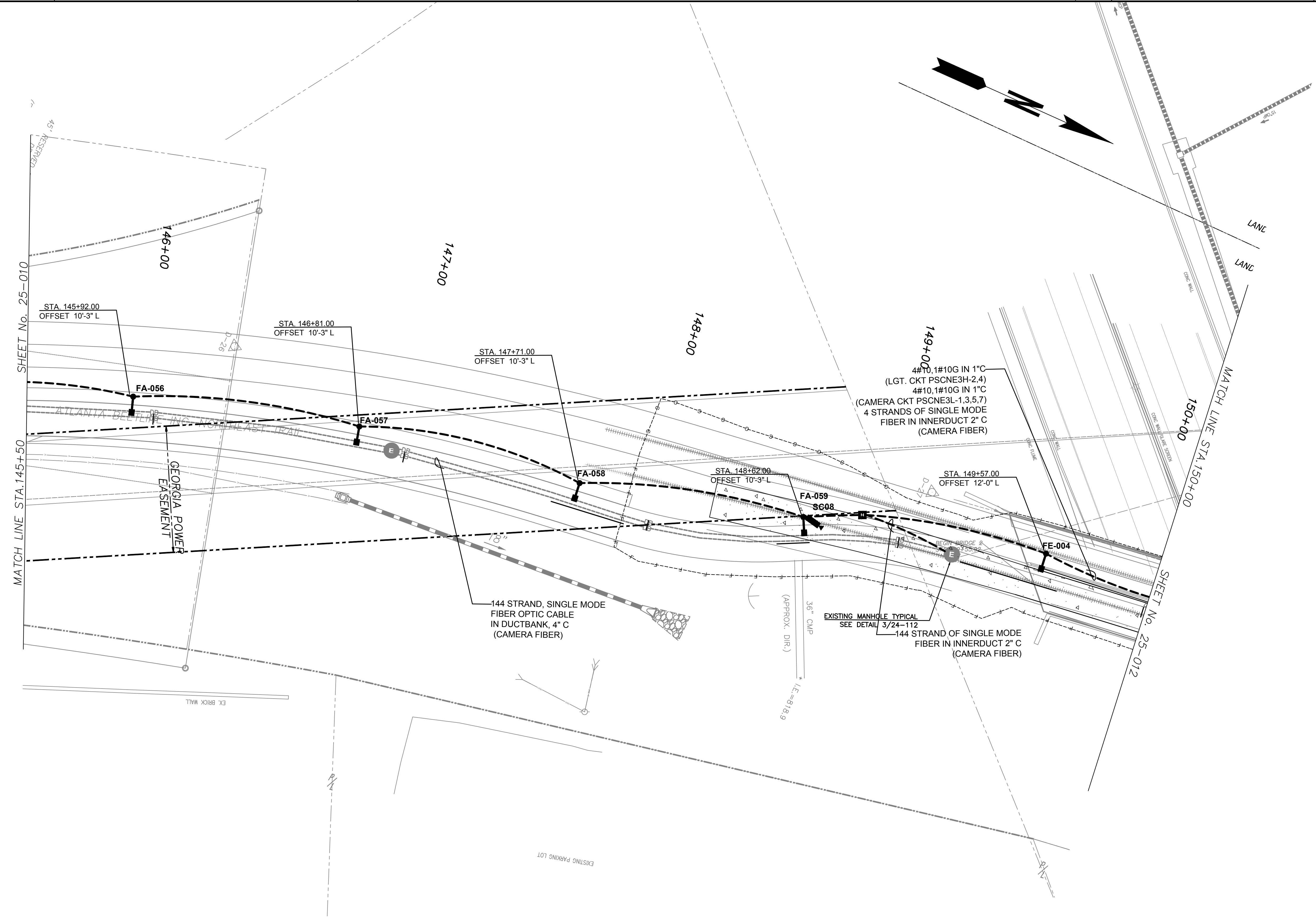
RPA
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-806-0143



REVISION DATES	

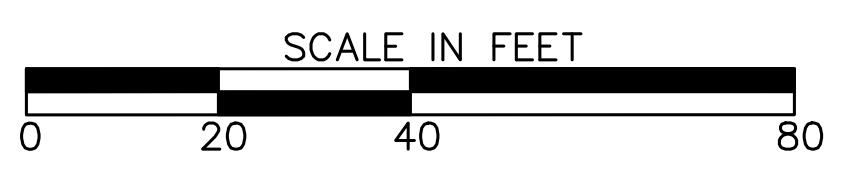
LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 140+00 TO STA. 145+50

CHECKED:	DATE:	DRAWING No. 25-010
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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 100 PEACHTREE STREET
 SUITE 2300
 ATLANTA, GA 30303
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 FAX: (404) 477-3606

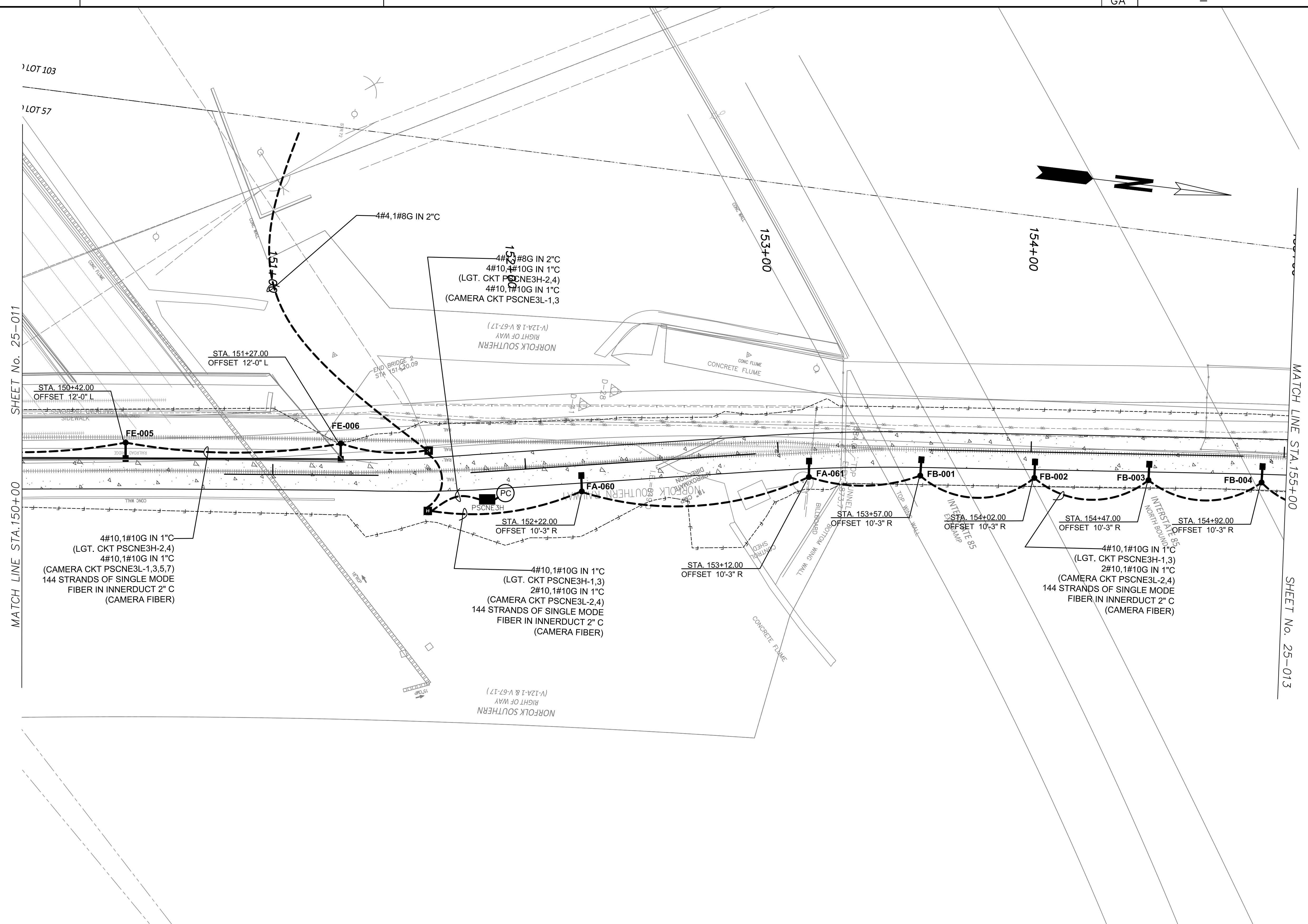
RPA
 R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143



REVISION DATES	

LIGHTING PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 145+50 TO STA. 150+00

CHECKED:	DATE:	DRAWING No. 25-011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 150+00

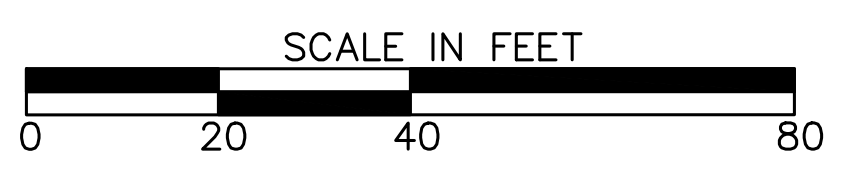
MATCH LINE STA. 155+00



Atlanta BeltLine

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ENGINEERING CONSULTANTS

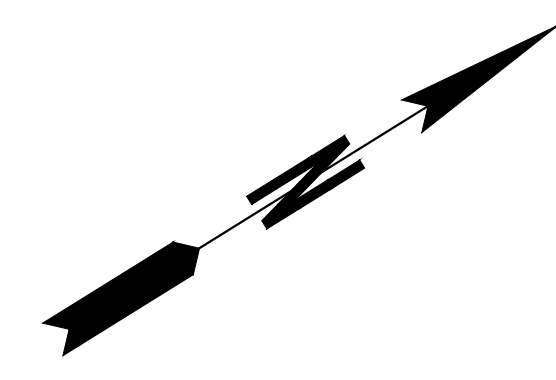
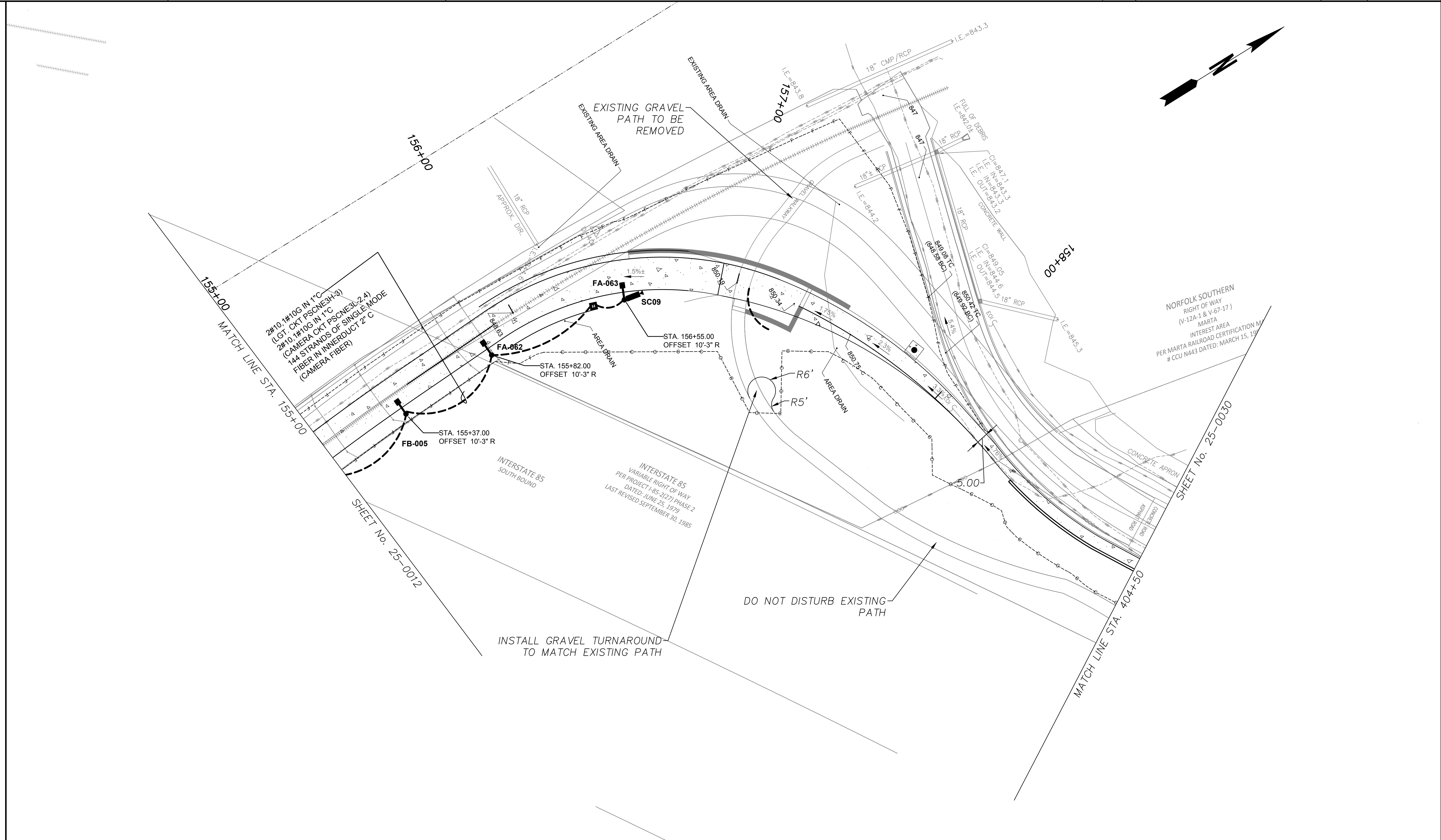
1312 KILLIAN WAY
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REVISION DATES	

LIGHTING PLANS
ATLANTA BELTLINE NORTHEAST TRAIL
STA. 150+00 TO STA. 155+00

CHECKED:	DATE:	DRAWING No. 25-012
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



2#10, 1#10G IN 1" C
 (LGT. CKT. PSONE3H-3)
 2#10, 1#10G IN 1" C
 (CAMERA CKT. PSONE3L-2-4)
 14 STRANDS OF SINGLE MODE
 FIBER IN INNERDUCT 2" C
 (CAMERA FIBER)

INTERSTATE 85
 VARIABLE RIGHT OF WAY
 PER PROJECT I-85-3(27) PHASE 2
 DATED: JUNE 25, 1979
 LAST REVISED: SEPTEMBER 30, 1985

NORFOLK SOUTHERN
 RIGHT OF WAY
 (V-12A-1 & V-67-17)
 MARTA
 INTEREST AREA
 PER MARTA RAILROAD CERTIFICATION M
 # CCU N443 DATED: MARCH 15, 19

SHEET No. 25-0012

SHEET No. 25-0030

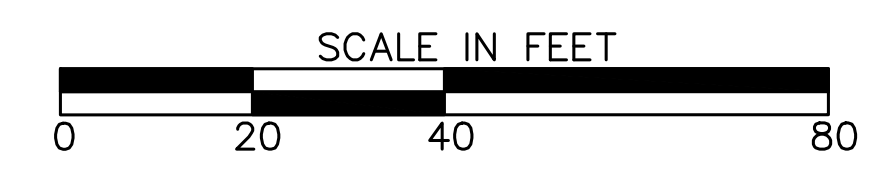
INSTALL GRAVEL TURNAROUND
 TO MATCH EXISTING PATH

DO NOT DISTURB EXISTING
 PATH

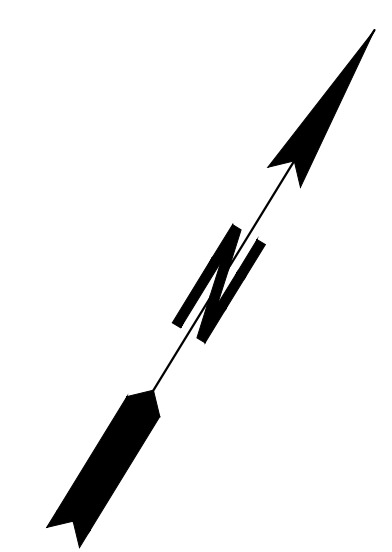
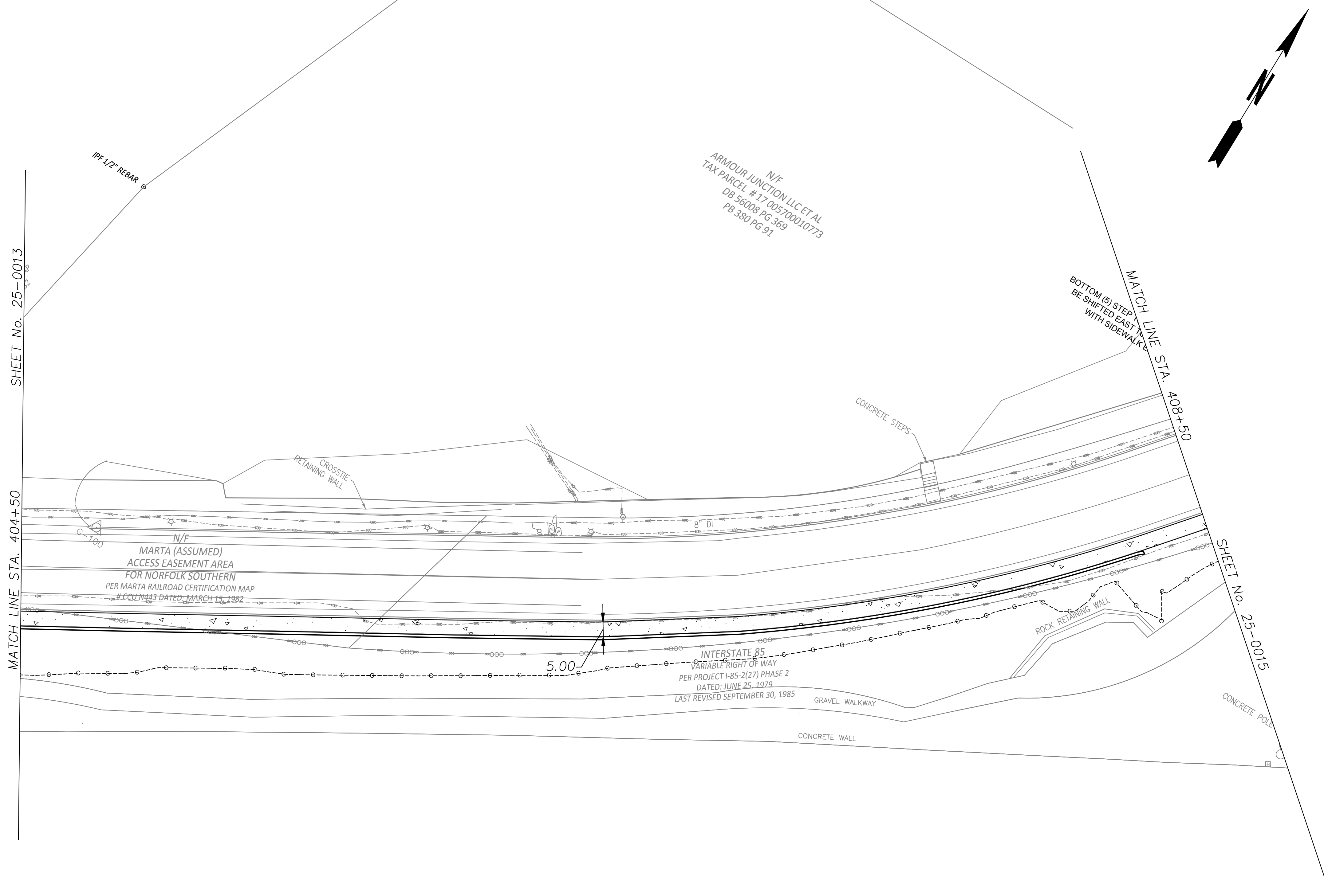


Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET
 SUITE 2300
 ATLANTA, GA 30303
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 FAX: (404) 477-3606

RPA
 R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-906-0143



REVISION DATES		LIGHTING PLANS ATLANTA BELTLINE NORTHEAST TRAIL STA. 155+00 TO STA. 404+50	
		CHECKED:	DATE:
		BACKCHECKED:	DATE:
		CORRECTED:	DATE:
		VERIFIED:	DATE:
DRAWING No.			25-013



MATCH LINE STA. 404+50

MATCH LINE STA. 408+50

SHEET No. 25-0015

IPF 1/2" REBAR

N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17 005700010773
DB 56008 PG.369
PB 380 PG.91

BOTTOM (B) STEP
BE SHIFTED EAST
WITH SIDEWALK

CONCRETE STEPS

CROSSTIE
RETAINING WALL

N/F
MARTA (ASSUMED)
ACCESS EASEMENT AREA
FOR NORFOLK SOUTHERN
PER MARTA RAILROAD CERTIFICATION MAP
CCU N443 DATED: MARCH 15, 1982

INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

ROCK RETAINING WALL

GRAVEL WALKWAY

CONCRETE WALL

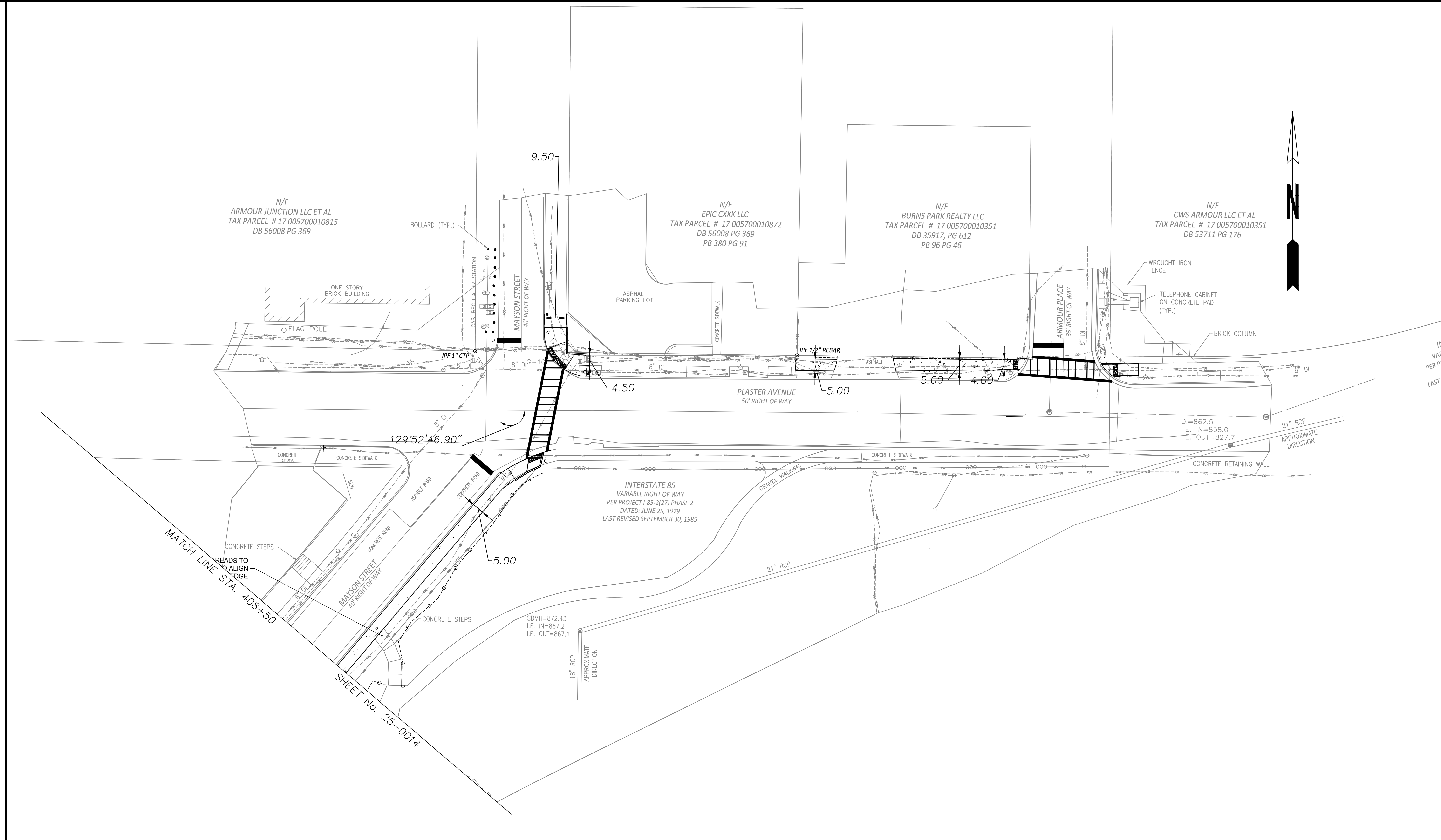
CONCRETE POLE

5.00'

8" DI

C-100

	<p>ATLANTA BELTLINE, INC. 100 PEACHTREE STREET SUITE 2300 ATLANTA, GA 30303 TEL: (404) 477-3003 FAX: (404) 477-3606</p>	<p>R. POWELL & ASSOCIATES, INC. ENGINEERING CONSULTANTS 1312 KILLIAN WAY LILBURN, GEORGIA 30047 PHONE: 770-806-0143</p>	<p>SCALE IN FEET</p>	<p>REVISION DATES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>														<p>LIGHTING PLANS ATLANTA BELTLINE NORTHEAST TRAIL STA. 404+50 TO STA. 408+50</p>	
<table border="1"> <tr> <td>CHECKED:</td> <td> </td> <td>DATE:</td> <td> </td> </tr> <tr> <td>BACKCHECKED:</td> <td> </td> <td>DATE:</td> <td> </td> </tr> <tr> <td>CORRECTED:</td> <td> </td> <td>DATE:</td> <td> </td> </tr> <tr> <td>VERIFIED:</td> <td> </td> <td>DATE:</td> <td> </td> </tr> </table>	CHECKED:		DATE:		BACKCHECKED:		DATE:		CORRECTED:		DATE:		VERIFIED:		DATE:		<p>DRAWING No. 25-014</p>		
CHECKED:		DATE:																	
BACKCHECKED:		DATE:																	
CORRECTED:		DATE:																	
VERIFIED:		DATE:																	



MATCH LINE STA. 408+50

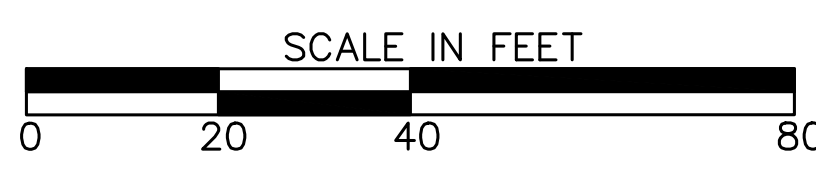
SHEET No. 25-0014



ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET
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 FAX: (404) 477-3606



R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
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REVISION DATES	

LIGHTING PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 STA. 408+50 TO STA. END

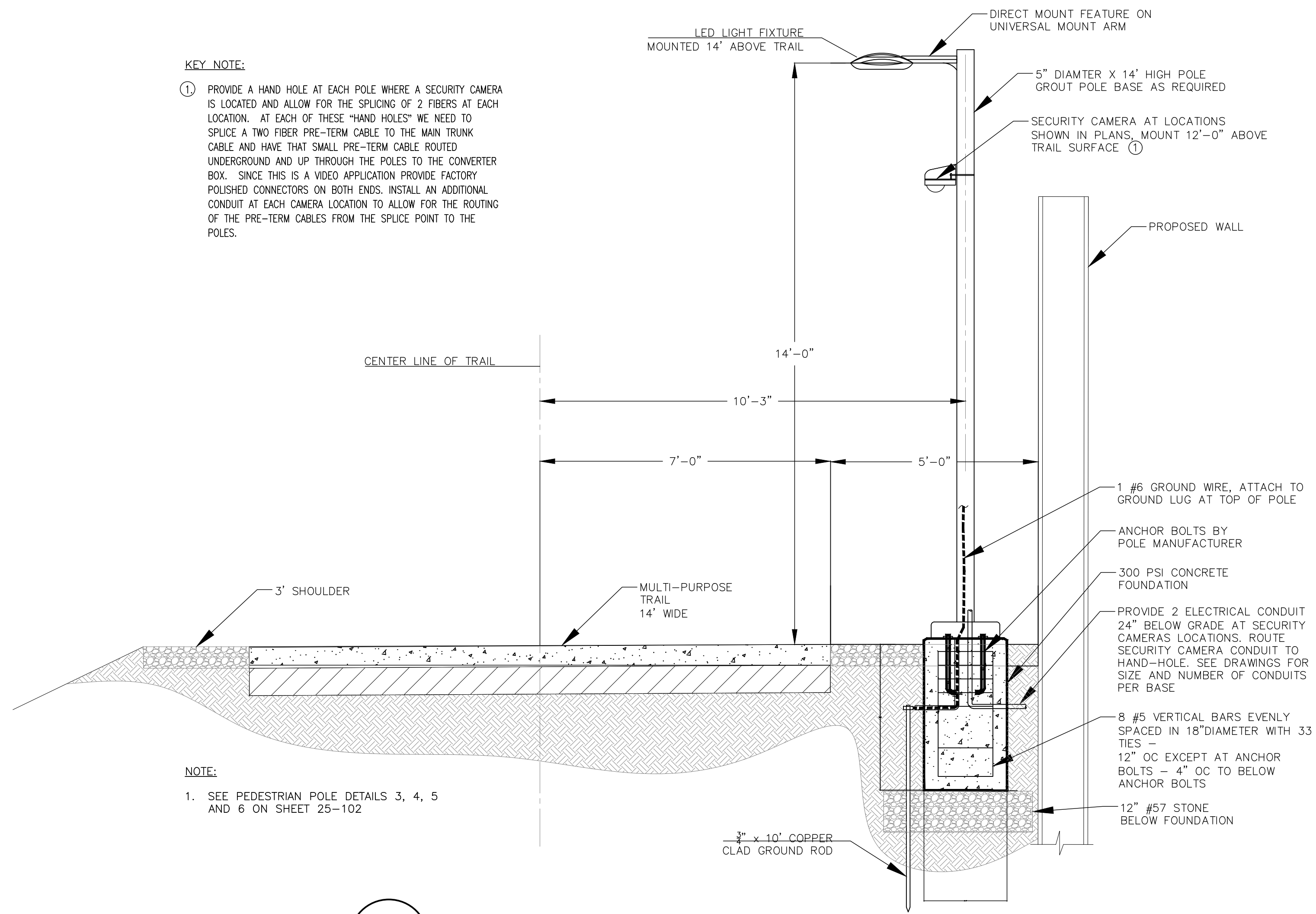
CHECKED:	DATE:	DRAWING No. 25-015
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

KEY NOTE:

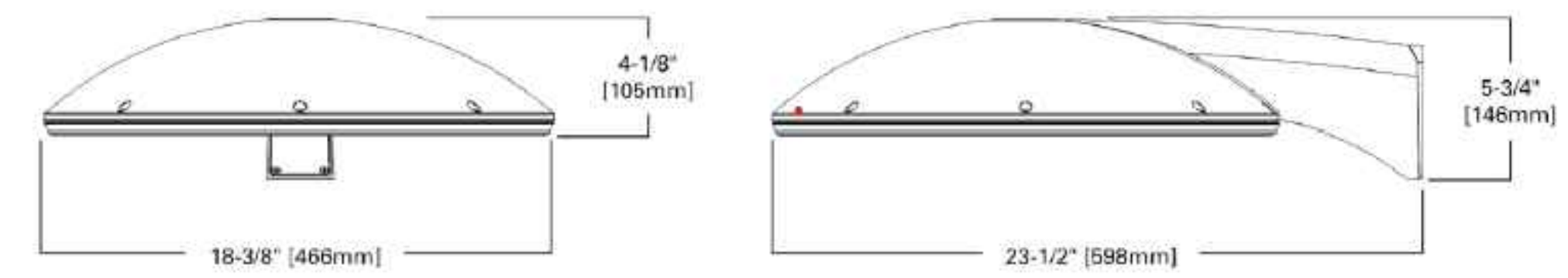
① PROVIDE A HAND HOLE AT EACH POLE WHERE A SECURITY CAMERA IS LOCATED AND ALLOW FOR THE SPLICING OF 2 FIBERS AT EACH LOCATION. AT EACH OF THESE "HAND HOLES" WE NEED TO SPLICE A TWO FIBER PRE-TERM CABLE TO THE MAIN TRUNK CABLE AND HAVE THAT SMALL PRE-TERM CABLE ROUTED UNDERGROUND AND UP THROUGH THE POLES TO THE CONVERTER BOX. SINCE THIS IS A VIDEO APPLICATION PROVIDE FACTORY POLISHED CONNECTORS ON BOTH ENDS. INSTALL AN ADDITIONAL CONDUIT AT EACH CAMERA LOCATION TO ALLOW FOR THE ROUTING OF THE PRE-TERM CABLES FROM THE SPLICE POINT TO THE POLES.

NOTE:

1. SEE PEDESTRIAN POLE DETAILS 3, 4, 5 AND 6 ON SHEET 25-102

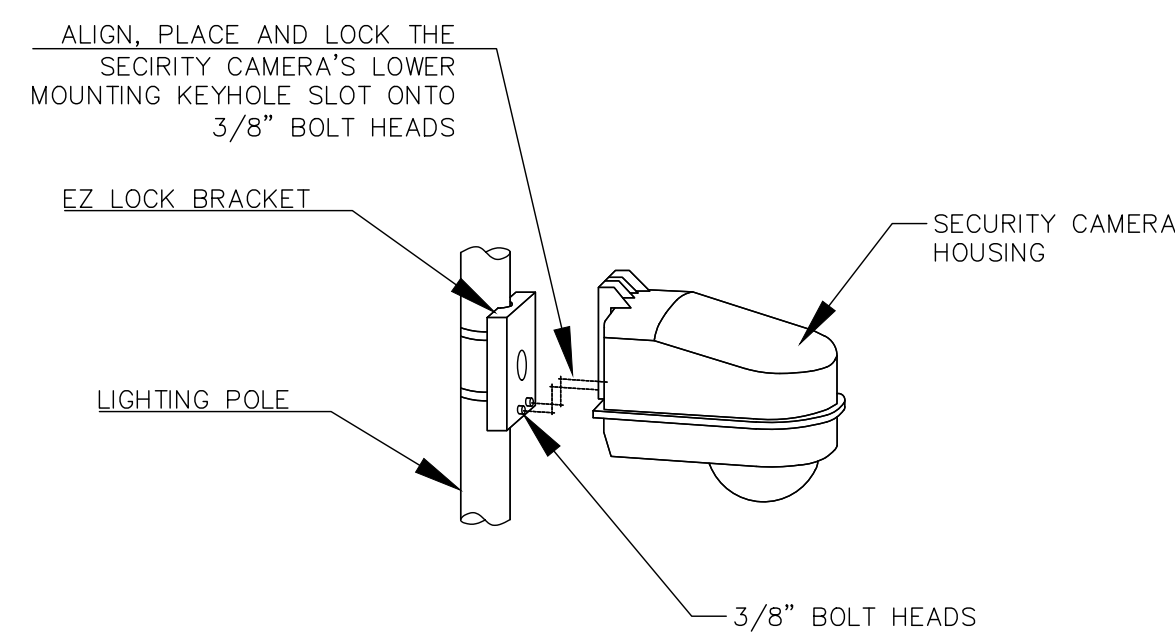


3 TYPE "FA" LIGHTING FIXTURE DETAIL AND TYPICAL TRAIL SECTION
25-101 N.T.S.



2 TYPE "FC" LIGHTING FIXTURE DETAIL
25-101 N.T.S.

SECURITY CAMERA MATERIAL LIST - ANEXTER KIT PART #ABL2-AFOD-KIT		
ITEM NO.	ITEM DESCRIPTION	QUANTITY
	AXIS FIXED HD CAMERA	1
	CAMERA LENSE	1
	OUTDOOR HOUSING ENCLOSURE, FLAT BLACK IN COLOR	1
	BLUE LIGHT FOR ENCLOSURE	1
	POLE MOUNT KIT/POWER SUPPLY	1
	SD MEMORY CARD	1
	SURGE PROTECTOR	1
	ONSS1 CAMERA LICENSE	1
	ONSS1 VIDEO WALL LICENSE	1



4 SECURITY CAMERA INSTALLATION
25-101 N.T.S.



ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606



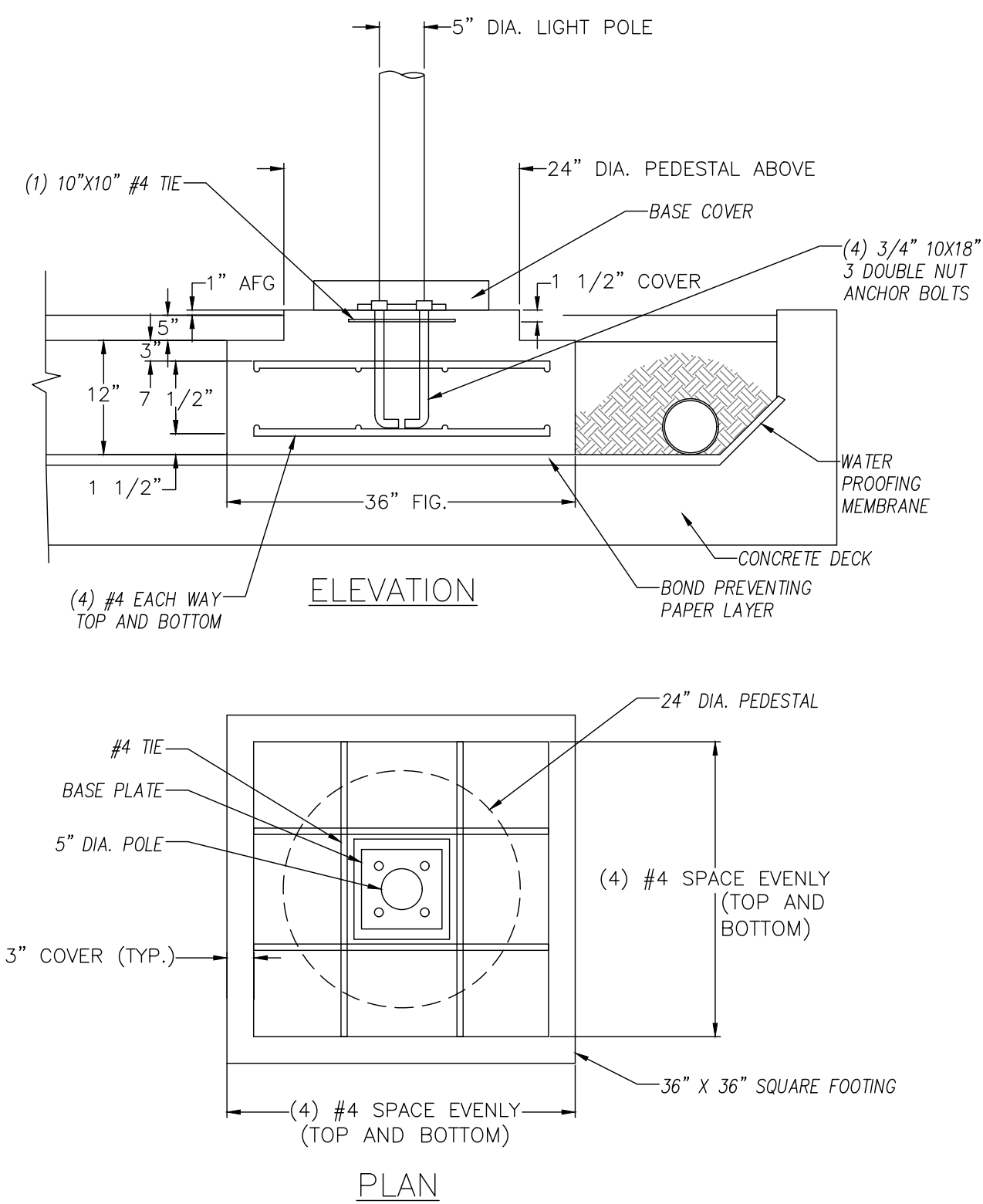
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143

REVISION DATES

NO.	DATE	DESCRIPTION

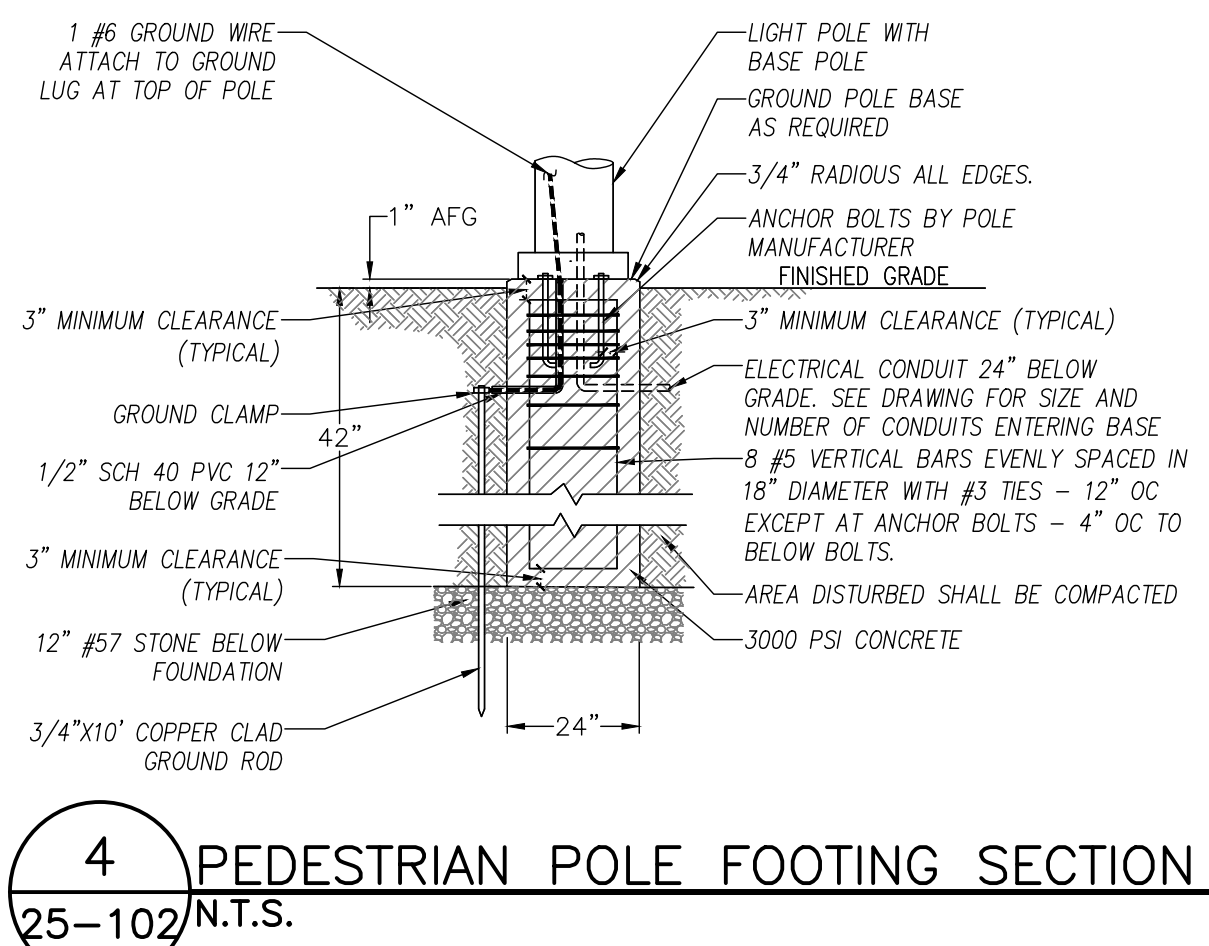
ATLANTA BELTLINE NORTHEAST TRAIL
LIGHTING DETAILS

CHECKED:	DATE:	DRAWING No. 25-101
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

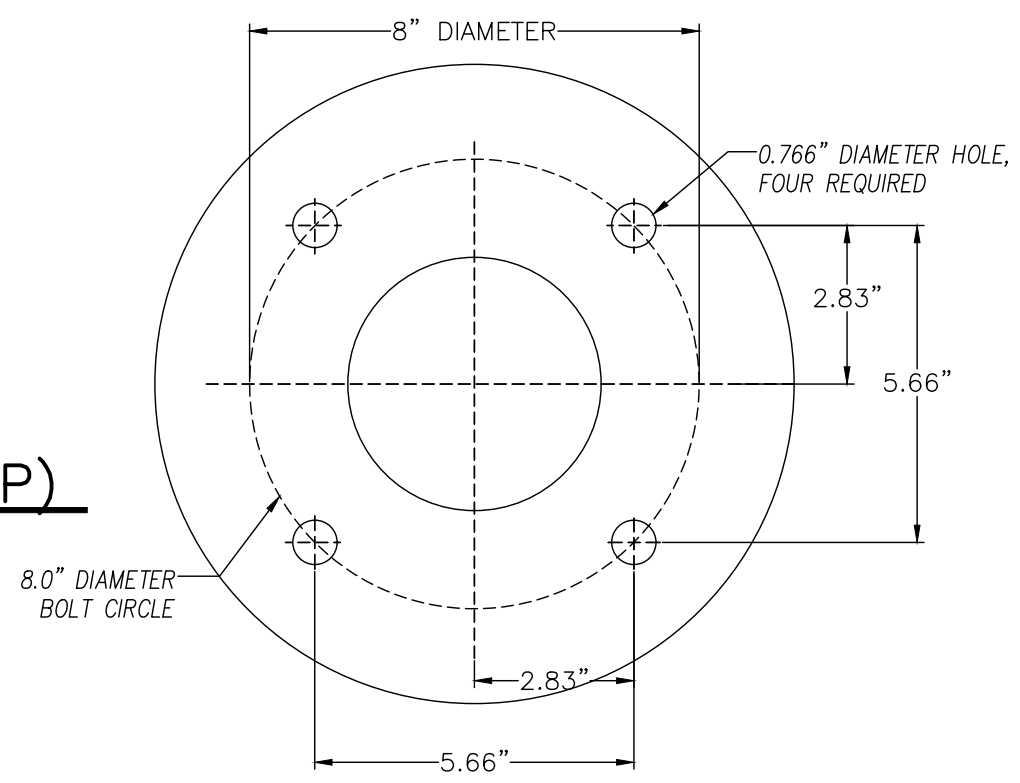


7 BRIDGE 2 (SR 13) MOUNTED POLE FOUNDATION DETAIL (TYP)
25-102/N.T.S.

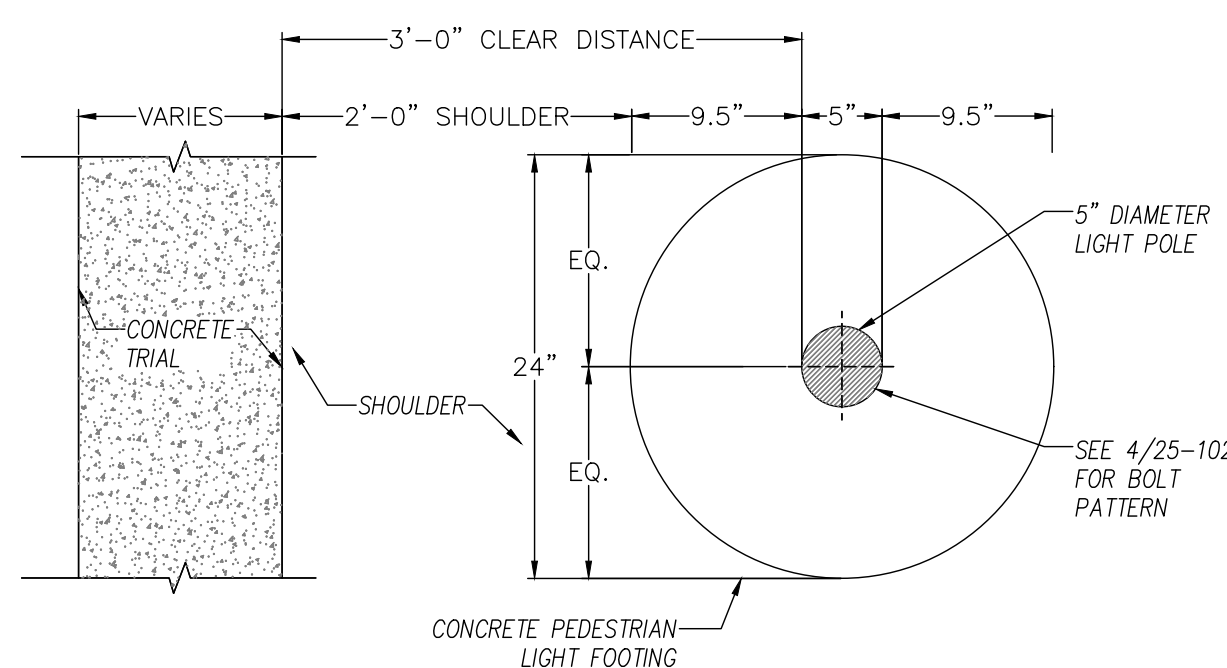
NOTE:
FOR BRIDGE 1, (CLEAR CREEK) MOUNTED POLE FOUNDATION DETAIL, SEE BRIDGE 1, SHEET 35-0005



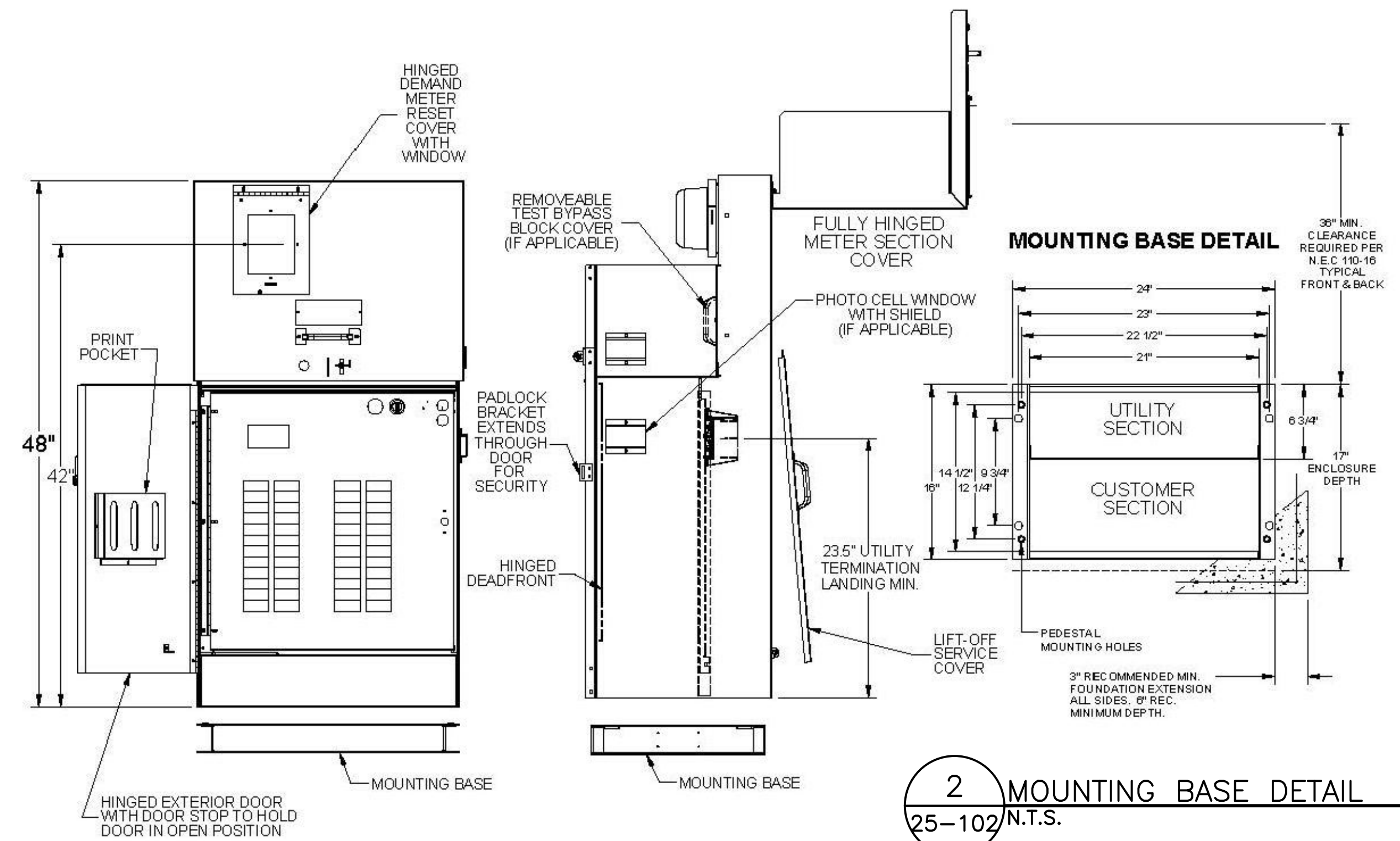
4 PEDESTRIAN POLE FOOTING SECTION
25-102/N.T.S.



5 PEDESTRIAN POLE LIGHT BOLT PATTERN
25-102/N.T.S.

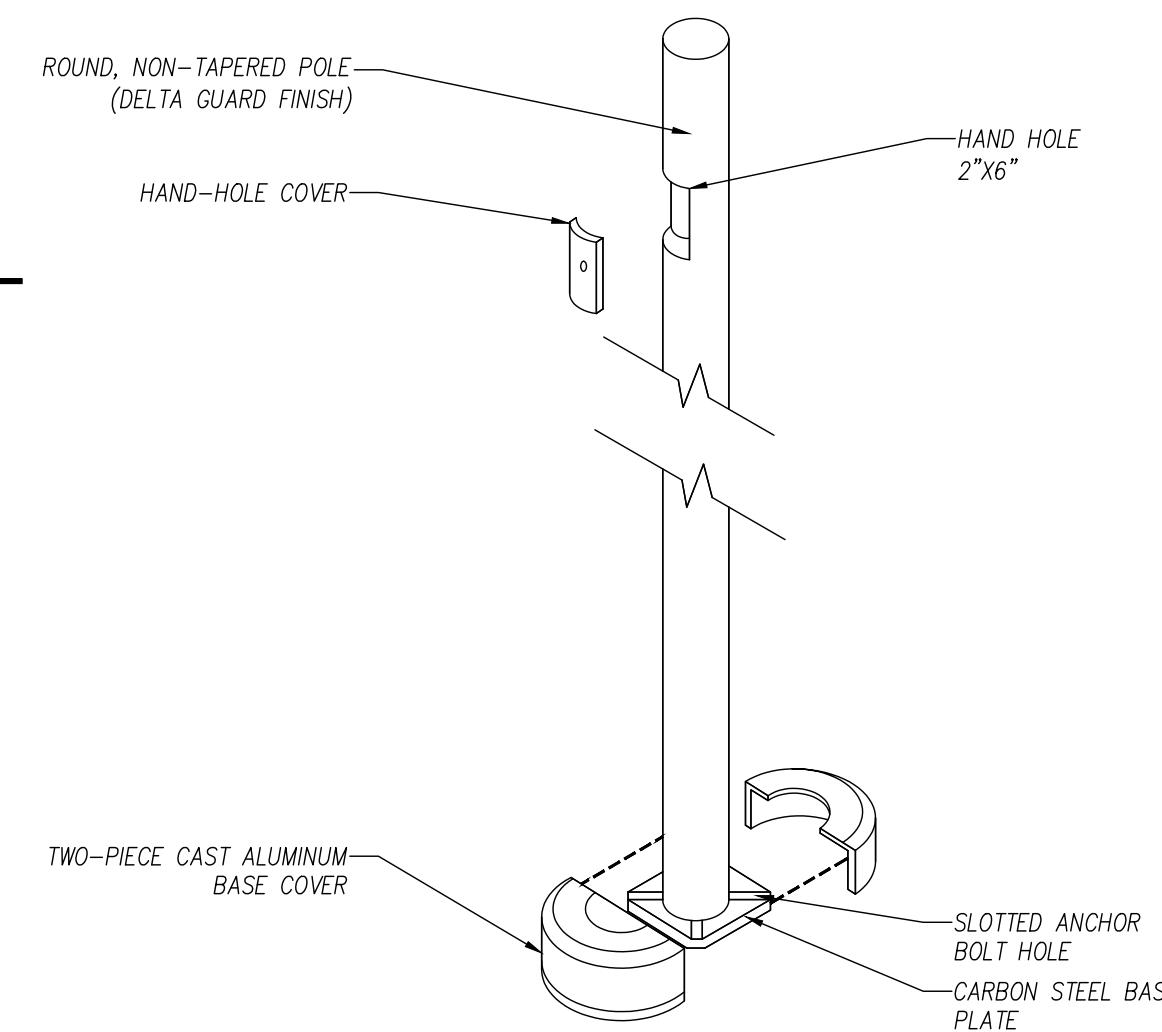


6 PEDESTRIAN POLE FOOTING - PLAN VIEW DETAIL
25-102/N.T.S.

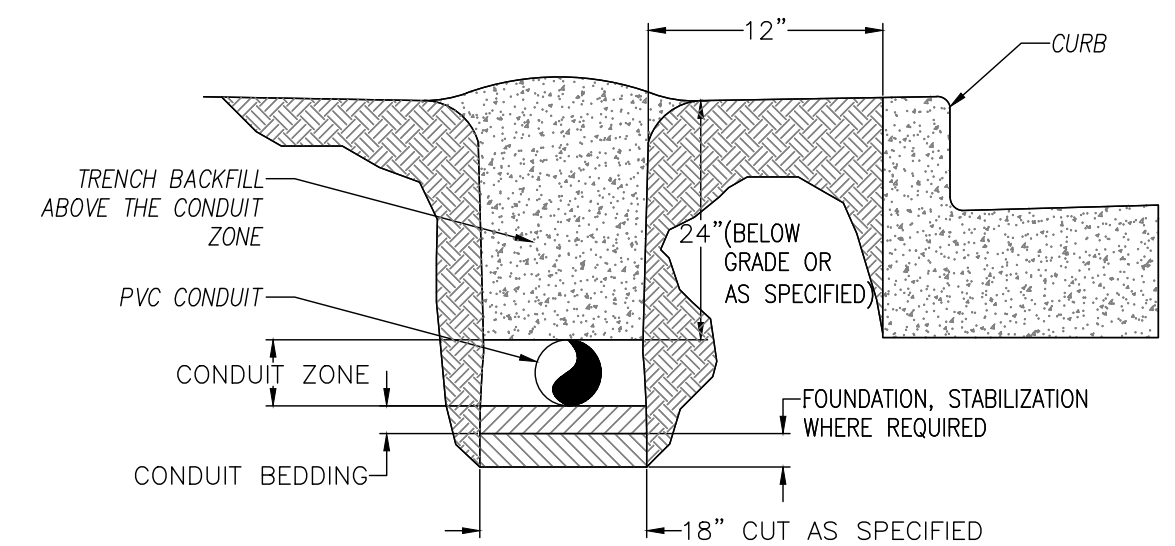


1 24" "B" STYLE METERS PEDestal DETAIL
25-102/N.T.S.

2 MOUNTING BASE DETAIL
25-102/N.T.S.



3 ROUND STEEL POLE
25-102/N.T.S.



2 TYPICAL TRENCH DETAIL
25-102/N.T.S.



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ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143

REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
LIGHTING DETAILS

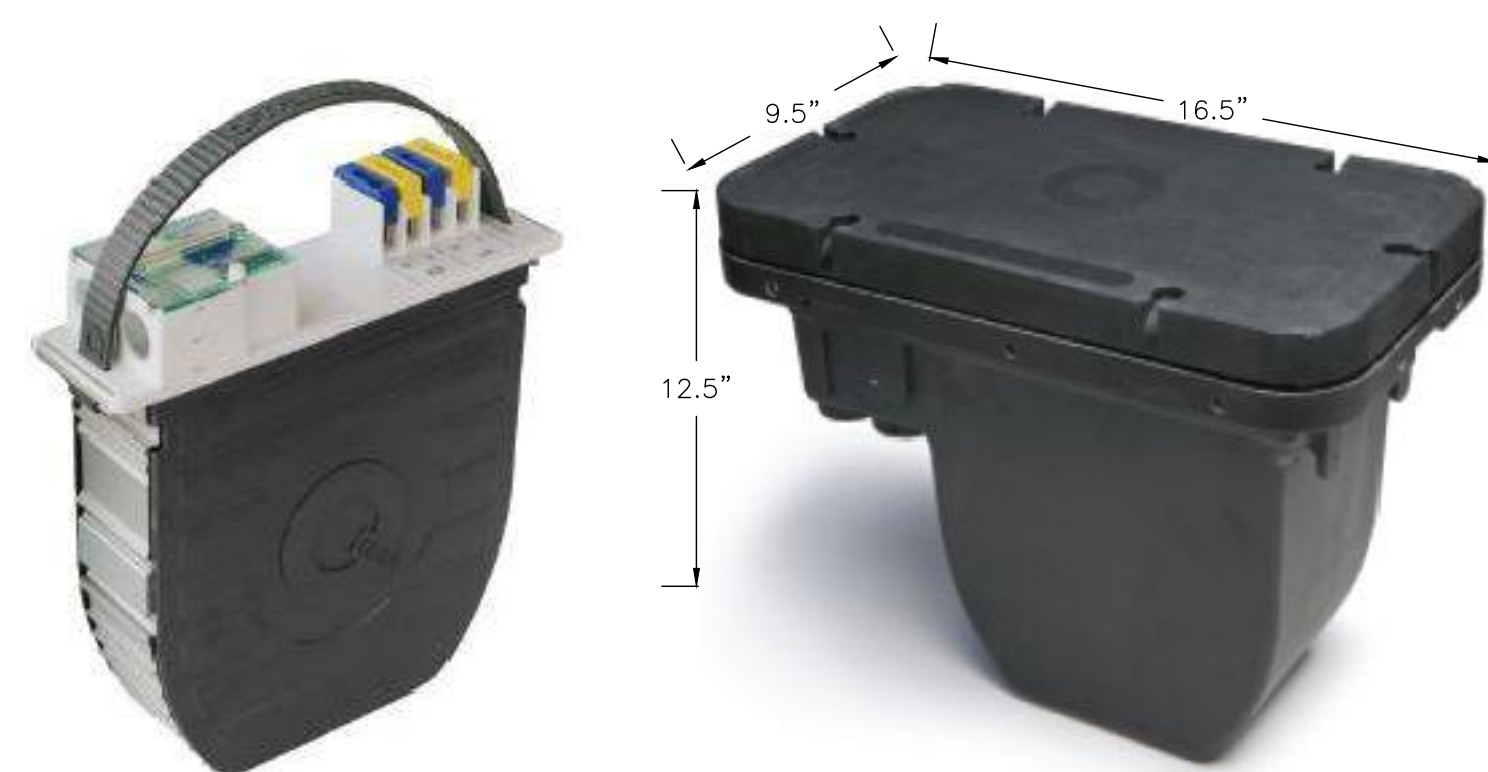
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	25-102
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATERIAL QUANTITIES

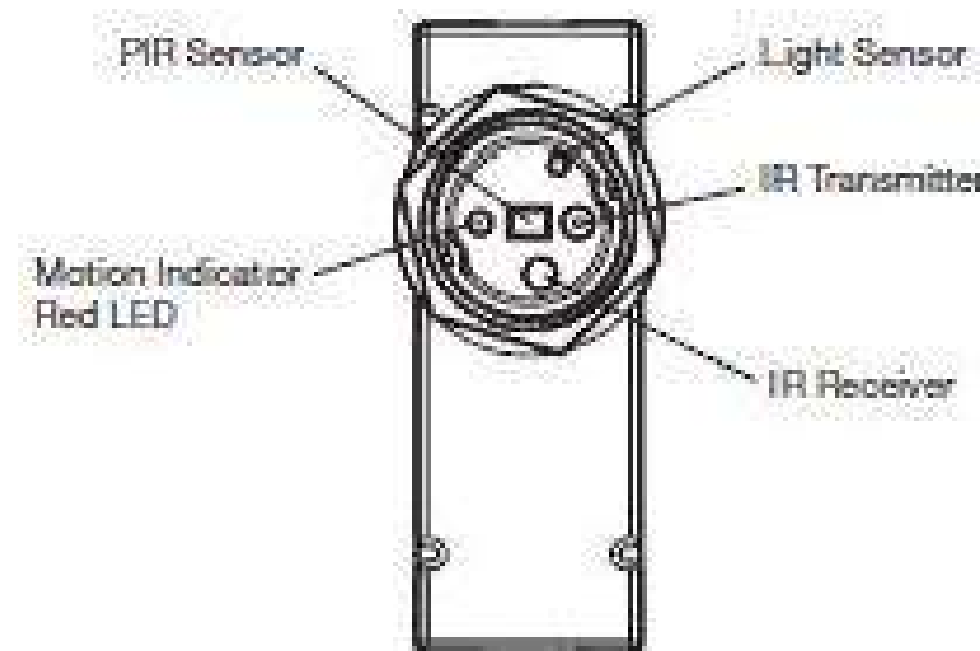
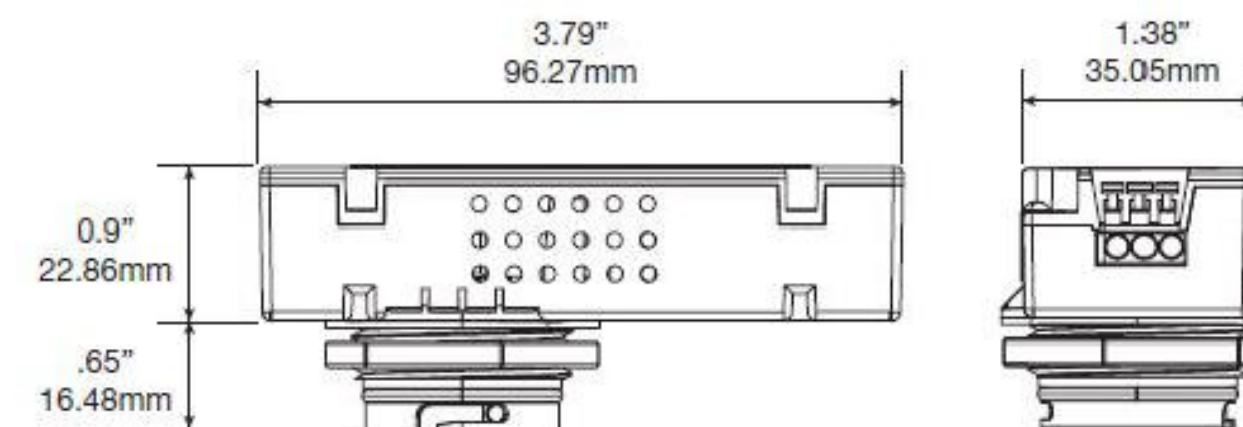
ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTIT Y
500-3101	CLASS A CONCRETE	CY	30
511-1000	BAR REINF STEEL	LB	3335
680-6130	LUMINAIRE TYPE "FA" (SEE LIGHT FIXTURE SCHEDULE)	EA	62
680-6130	LUMINAIRE TYPE "FB" (SEE LIGHT FIXTURE SCHEDULE)	EA	5
630-6200	WALL MOUNTED UNDERPASS LUMINAIRE, TYPE "FC"(SEE LIGHT FIXTURE SCHEDULE)	EA	8
680-6130	LUMINAIRE TYPE "FE" (SEE LIGHT FIXTURE SCHEDULE)	EA	6
680-6130	LUMINAIRE TYPE "FF" (SEE LIGHT FIXTURE SCHEDULE)	EA	3
937-1000	SECURITY CAMERA "SC" (SEE LIGHT FIXTURE SCHEDULE)	EA	9
680-4110	LIGHTING STANDARD-STEEL, 11-15 FT + GROUND ROD & CABLE	EA	75
682-6110	CONDUIT, RIGID, 1 IN	LF	120
682-6219	CONDUIT, NONMETL, TP 2, 1 IN	LF	5640
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	2100
935-1117	OUTSIDE PLANT FIBER OPTIC CABLE LOOSE TUBE SINGLE MODE, 144 FIBER	LF	6500
935-1111	OUTSIDE PLANT FIBER OPTIC CABLE LOOSE TUBE SINGLE MODE, 6 FIBER	LF	1400
682-1404	Cable, TP XHHW, AWG No 10	LF	52070
682-1405	Cable, TP XHHW, AWG No 8	LF	600
682-1407	Cable, TP XHHW, AWG No 4	LF	2300
682-9000	POWER SERVICE CABINET (SEE DETAIL DWG #25-102)	EA	3
682-9000	MDF CABINET FOR FIBER TERMINATIONS	EA	1
682-9020	HANDHOLE	EA	17

NOTES:

- INSTALL FIBER OPTIC CABLE, SINGLE MODE, 96 FIBER, IN DUCTBANK BENEATH THE TRAIL. SEE 24 SERIES SHEETS FOR DETAILS OF DUCTBANK AND MANHOLE LOCATIONS. SPLICE FIBER OPTIC CABLE AT MANHOLE NEAR EACH CAMERA LOCATION AND RUN 2 CABLES TO EACH CAMERA IN 1" CONDUIT.
- INSTALL MDF CABINET AT STA 96+00. RUN FIBER OPTIC CABLE TO CABINET. EQUIPMENT FOR TERMINATIONS AND TERMINATIONS TO BE BY OTHERS.

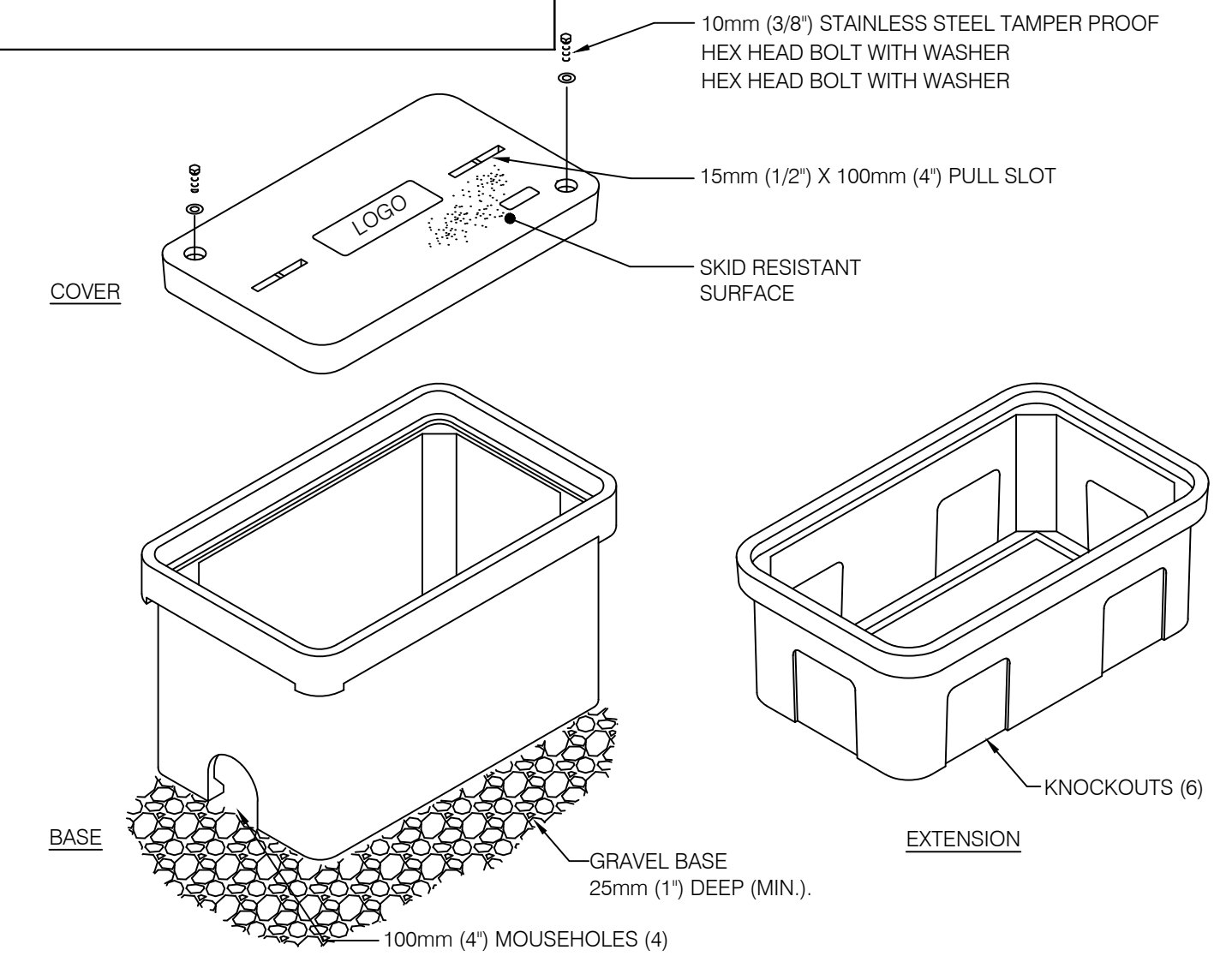


3 TYPICAL ELECTRIC VAULT BOX DETAIL
25-103 N.T.S.



4 INTERGRATED OCCUPANCY SENSOR
25-103 N.T.S.

NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



- NOTES:
- PROVIDE STAINLESS HANDHOLE COVER.
 - PROVIDE 25mm (1) X 10mm (3/8) BELL PULL SLOT FOR EACH HANDHOLE.

2 TYPICAL HANDHOLE DETAIL
25-103 N.T.S.



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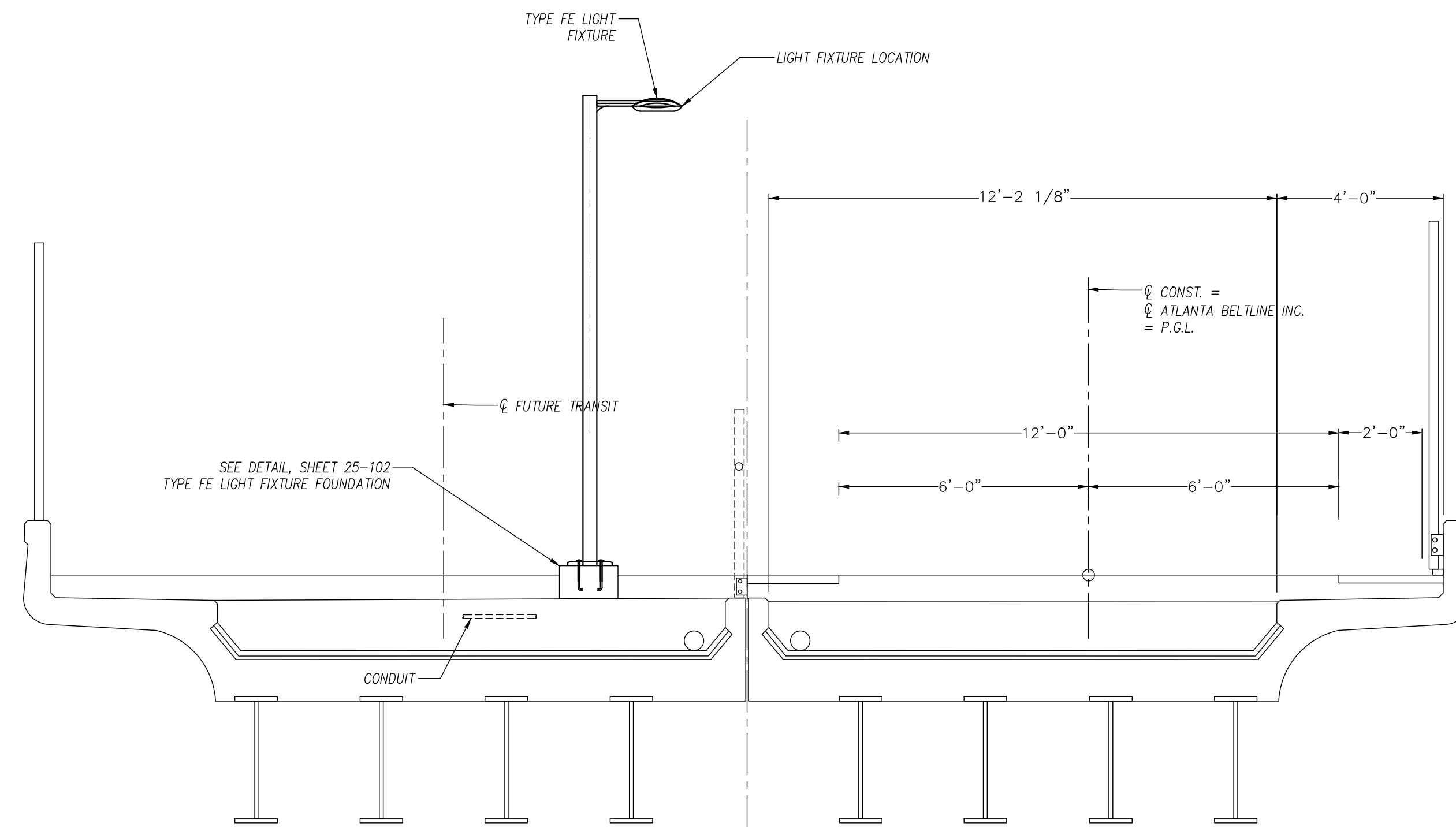
R. POWELL & ASSOCIATES, INC.
ENGINEERING CONSULTANTS
1312 KILLIAN WAY
LILBURN, GEORGIA 30047
PHONE: 770-906-0143

REVISION DATES

NO.	DATE	DESCRIPTION

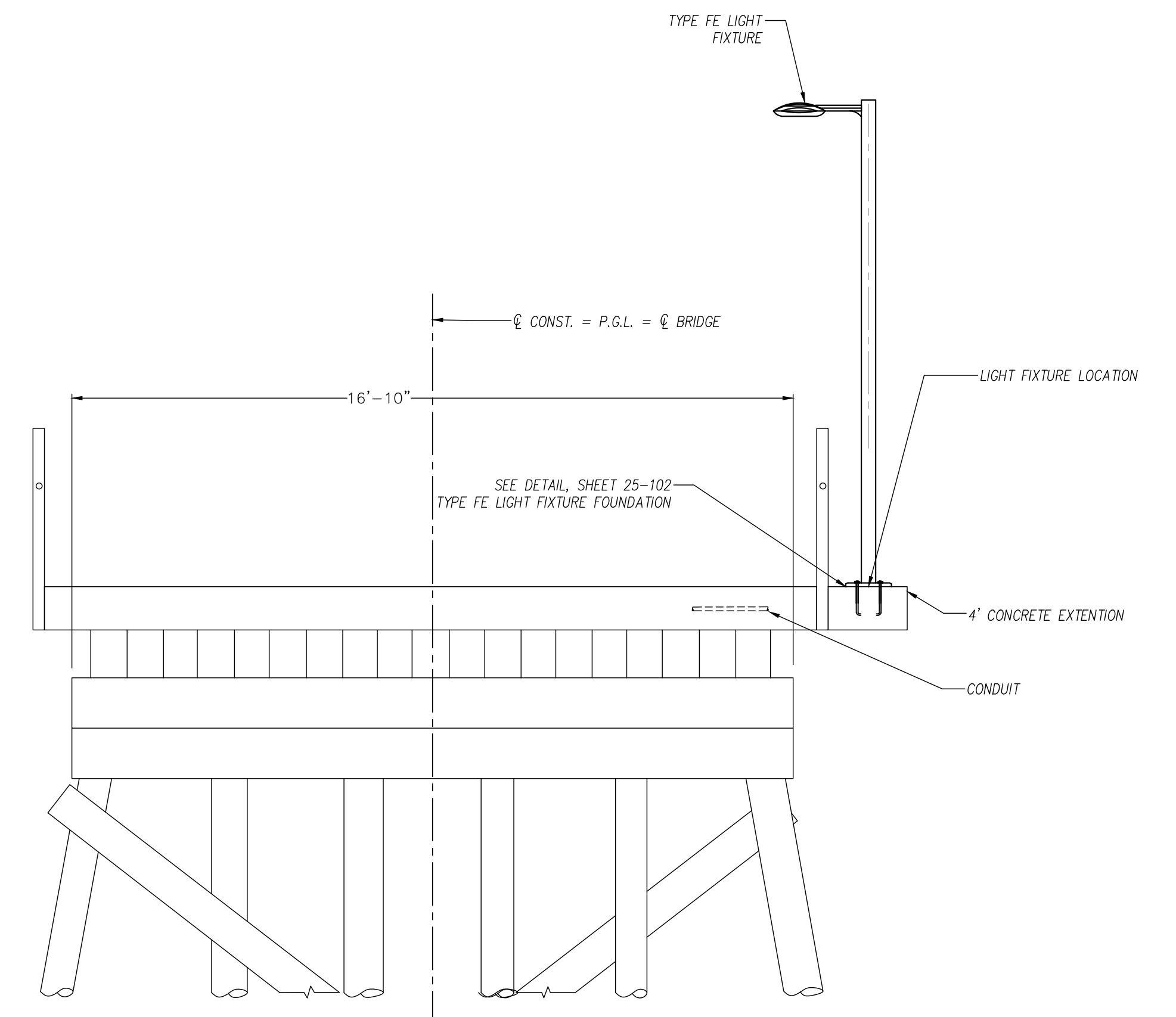
ATLANTA BELTLINE NORTHEAST TRAIL
LIGHTING DETAILS

CHECKED:	DATE:	DRAWING No. 25-103
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPOSED TYPICAL SECTION
(LOOKING AHEAD)

2 BRIDGE SECTION AT BUFORD HWY
25-104/N.T.S.



TYPICAL SECTION
(LOOKING AHEAD)

1 BRIDGE SECTION AT CLEAR CREEK
25-104/N.T.S.



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LILBURN, GEORGIA 30047
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REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
LIGHTING DETAILS

CHECKED:	DATE:	DRAWING No. 25-104
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

PANEL PSCNE1H													
MAINS:		30 MCB		VOLTAGE: 480/277		WIRE: 4		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 3		AIC: 22 kA		ENCLOSURE: NEMA 1					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20/1	A	TRAIL LIGHTING	0.8	1.7			0.8	TRAIL LIGHTING	A	20/1	2	
3	20/1	A	TRAIL LIGHTING	0.8		1.8		1.0	TRAIL LIGHTING	A	20/1	4	
5	20/1	A	PIEDMONT AVE U.PATH LGTS	0.2			0.6	0.4	PHOTOCELL	A	20/1	6	
7	20/1	A	PIEDMONT AVE HANDRAIL LGTS	0.5	1.8			1.3	TO XFMR FEEDING PNL PSCNE1H	G	20	8	
9	20/1		SPARE			0.7				G	2	10	
11	20/1		SPARE							G	20/1	12	

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	4.5	5.6	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles			Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	2.0	2.0					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		3.4			LOCATION:		PSCNE1						
Phase B Connected Load		2.5		TOTAL CONNECTED LOAD:	FEED FROM:		BOTTOM						
Phase C Connected Load		0.6		TOTAL DEMAND LOAD:	FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.

PSCNE1L													
MAINS:		MCB A		VOLTAGE: 240/120		WIRE: 3		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 1		AIC: 42 kA		ENCLOSURE: NEMA					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20	G	SECURITY CAMERA	0.1	0.2		0.1	SECURITY CAMERA	G	20	2		
3	20	G	SCNE-2	0.1		0.2	0.1	SCNE-3	G	2	4		
5	20	G	SECURITY CAMERA	0.1	0.5		0.4	PHOTOCELL	A	20/1	6		
7	20	G	SCNE-1	0.1		0.1		SPARE		20/1	8		
9	15/1	A	CABINET LIGHT	0.6	0.6			SPARE		20/1	10		
11	20/1	B	CABINET GF1 RECEPTACLE	0.4			0.4	SPARE		20/1	12		

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	1.0	1.2	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles	0.4	0.4	Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	0.7	0.7					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		1.3		TOTAL CONNECTED LOAD:	LOCATION:		CORRIDOR						
Phase B Connected Load		0.7		TOTAL DEMAND LOAD:	FEED FROM:		TOP						
					FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.
 ② PROVIDE HACR TYPE CIRCUIT BREAKER FOR MECHANICAL EQUIPMENT.
 ③ PROVIDE 100% MAIN CIRCUIT BREAKER.
 ④ PROVIDE FEED THRU LUGS.
 ⑤ LOCKABLE BREAKER LOCKED IN THE "ON" POSITION

1

PANEL PSCNE2H													
MAINS:		30 MCB		VOLTAGE: 480/277		WIRE: 4		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 3		AIC: 22 kA		ENCLOSURE: NEMA 1					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20/1	A	TRAIL LIGHTING	0.8	1.7			0.8	TRAIL LIGHTING	A	20/1	2	
3	20/1	A	TRAIL LIGHTING	0.8		1.8		1.0	TRAIL LIGHTING	A	20/1	4	
5	20/1	A	PIEDMONT AVE U.PATH LGTS	0.2			0.6	0.4	PHOTOCELL	A	20/1	6	
7	20/1	A	PIEDMONT AVE HANDRAIL LGTS	0.5	1.6			1.2	TO XFMR FEEDING PNL PSCNE2L	G	20	8	
9	20/1		SPARE			0.7				G	2	10	
11	20/1		SPARE							G	20/1	12	

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	4.5	5.6	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles			Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	1.9	1.9					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		3.3			LOCATION:		PSCNE1						
Phase B Connected Load		2.5		TOTAL CONNECTED LOAD:	FEED FROM:		BOTTOM						
Phase C Connected Load		0.6		TOTAL DEMAND LOAD:	FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.

1

PSCNE2L													
MAINS:		MCB A		VOLTAGE: 240/120		WIRE: 3		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 1		AIC: 42 kA		ENCLOSURE: NEMA					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20	G	SECURITY CAMERA	0.1	0.2		0.1	SECURITY CAMERA	G	20	2		
3	20	G	SCNE-4	0.1		0.2	0.1	SCNE-6	G	2	4		
5	20	G	SECURITY CAMERA	0.1	0.3		0.2	PHOTOCELL	G	20/1	6		
7	20	G	SCNE-5	0.1		0.1		SPARE		20/1	8		
9	15/1	A	CABINET LIGHT	0.6	0.6			SPARE		20/1	10		
11	20/1	B	CABINET GF1 RECEPTACLE	0.4			0.4	SPARE		20/1	12		

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	0.6	0.8	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles	0.4	0.4	Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	0.9	0.9					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		1.2		TOTAL CONNECTED LOAD:	LOCATION:		CORRIDOR						
Phase B Connected Load		0.7		TOTAL DEMAND LOAD:	FEED FROM:		TOP						
					FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.
 ② PROVIDE HACR TYPE CIRCUIT BREAKER FOR MECHANICAL EQUIPMENT.
 ③ PROVIDE 100% MAIN CIRCUIT BREAKER.
 ④ PROVIDE FEED THRU LUGS.
 ⑤ LOCKABLE BREAKER LOCKED IN THE "ON" POSITION

PANEL PSCNE3H													
MAINS:		30 MCB		VOLTAGE: 480/277		WIRE: 4		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 3		AIC: 22 kA		ENCLOSURE: NEMA 1					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20/1	A	TRAIL LIGHTING	0.8	1.7			0.8	TRAIL LIGHTING	A	20/1	2	
3	20/1	A	TRAIL LIGHTING	0.8		1.8		1.0	TRAIL LIGHTING	A	20/1	4	
5	20/1	A	PIEDMONT AVE U.PATH LGTS	0.2			0.6	0.4	PHOTOCELL	A	20/1	6	
7	20/1	A	PIEDMONT AVE HANDRAIL LGTS	0.5	1.6			1.2	TO XFMR FEEDING PNL PSCNE3L	G	20	8	
9	20/1		SPARE			0.7				G	2	10	
11	20/1		SPARE							G	20/1	12	

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	4.5	5.6	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles			Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	1.9	1.9					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		3.3			LOCATION:		PSCNE1						
Phase B Connected Load		2.5		TOTAL CONNECTED LOAD:	FEED FROM:		BOTTOM						
Phase C Connected Load		0.6		TOTAL DEMAND LOAD:	FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.

PSCNE3L													
MAINS:		MCB A		VOLTAGE: 240/120		WIRE: 3		MOUNTING: SURFACE					
BUS:		100 A		PHASE: 1		AIC: 42 kA		ENCLOSURE: NEMA					
CKT #	TRIP POLE	LOAD TYPE	DESCRIPTION	CONNECTED LOAD KVA				DESCRIPTION	LOAD TYPE	TRIP POLE	CKT #		
				KVA	PH A	PH B	PH C					KVA	
1	20	G	SECURITY CAMERA	0.1	0.2		0.1	SECURITY CAMERA	G	20	2		
3	20	G	SCNE-8	0.1		0.2	0.1	SCNE-9	G	2	4		
5	20	G	SECURITY CAMERA	0.1	0.3		0.2	PHOTOCELL	G	20/1	6		
7	20	G	SCNE-7	0.1		0.1		SPARE		20/1	8		
9	15/1	A	CABINET LIGHT	0.6	0.6			SPARE		20/1	10		
11	20/1	B	CABINET GF1 RECEPTACLE	0.4			0.4	SPARE		20/1	12		

Panel Load Analysis													
Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference	Load Type	Description	Conn. KVA	Demand KVA	2011 NEC Reference				
A	Lighting	0.6	0.8	Per NEC Table 220.42	E	Kitchen Equipment			Per NEC Table 220.56				
B	Receptacles	0.4	0.4	Per NEC Table 220.44	F	Motor			Per NEC Table 430.22				
C	Air-Conditioning			Per NEC Article 440.4	G	Other	0.8	0.8					
D	Heating (Fixed)			Per NEC Article 220.51	H	Subpanels							
Phase A Connected Load		1.2		TOTAL CONNECTED LOAD:	LOCATION:		CORRIDOR						
Phase B Connected Load		0.7		TOTAL DEMAND LOAD:	FEED FROM:		TOP						
					FEEDER SIZE:		SEE POWER DIAGRAM						

NOTES:
 ① ALL BREAKERS SHALL BE BOLT-ON TYPE.
 ② PROVIDE HACR TYPE CIRCUIT BREAKER FOR MECHANICAL EQUIPMENT.
 ③ PROVIDE 100% MAIN CIRCUIT BREAKER.
 ④ PROVIDE FEED THRU LUGS.
 ⑤ LOCKABLE BREAKER LOCKED IN THE "ON" POSITION

KEY NOTES:

- ① EXISTING POWER PANELS INSTALLED UNDER PHASE 1. CONNECT INDICATED NEW CIRCUITS TO THESE PANELS.



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R. POWELL & ASSOCIATES, INC.
 ENGINEERING CONSULTANTS
 1312 KILLIAN WAY
 LILBURN, GEORGIA 30047
 PHONE: 770-806-0143

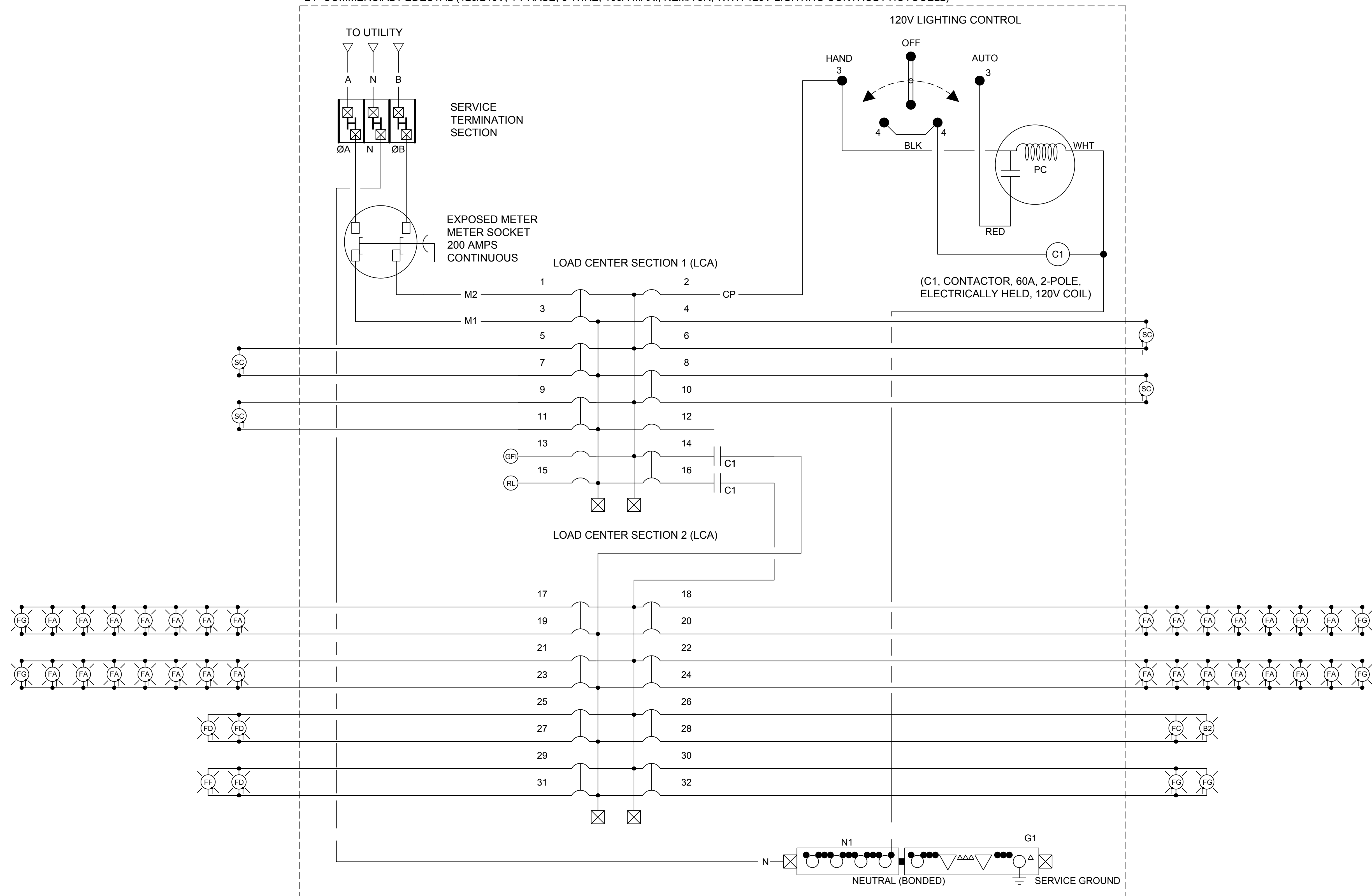
REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
 PANELBOARD SCHEDULES

CHECKED:	DATE:	DRAWING No. 25-202
BACKCHECKED:	DATE:	

24" COMMERCIAL PEDESTAL (120/240V, 1-PHASE, 3-WIRE, 100A MAX., NEMA 3R, WITH 120V LIGHTING CONTROL PHOTOCELL)



1 LIGHTING WIRING DIAGRAM TYPICAL
25-301 N.T.S.

KEY NOTES:

1 SURGE PROTECTION DEVICE SHALL BE RATED 277/480 3Ø WYE, WITH A MAXIMUM SURGE CURRENT OF 80KA PER PHASE, NEMA 3R.



ATLANTA BELTLINE, INC.
100 PEACHTREE STREET
SUITE 2300
ATLANTA, GA 30303
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REVISION DATES

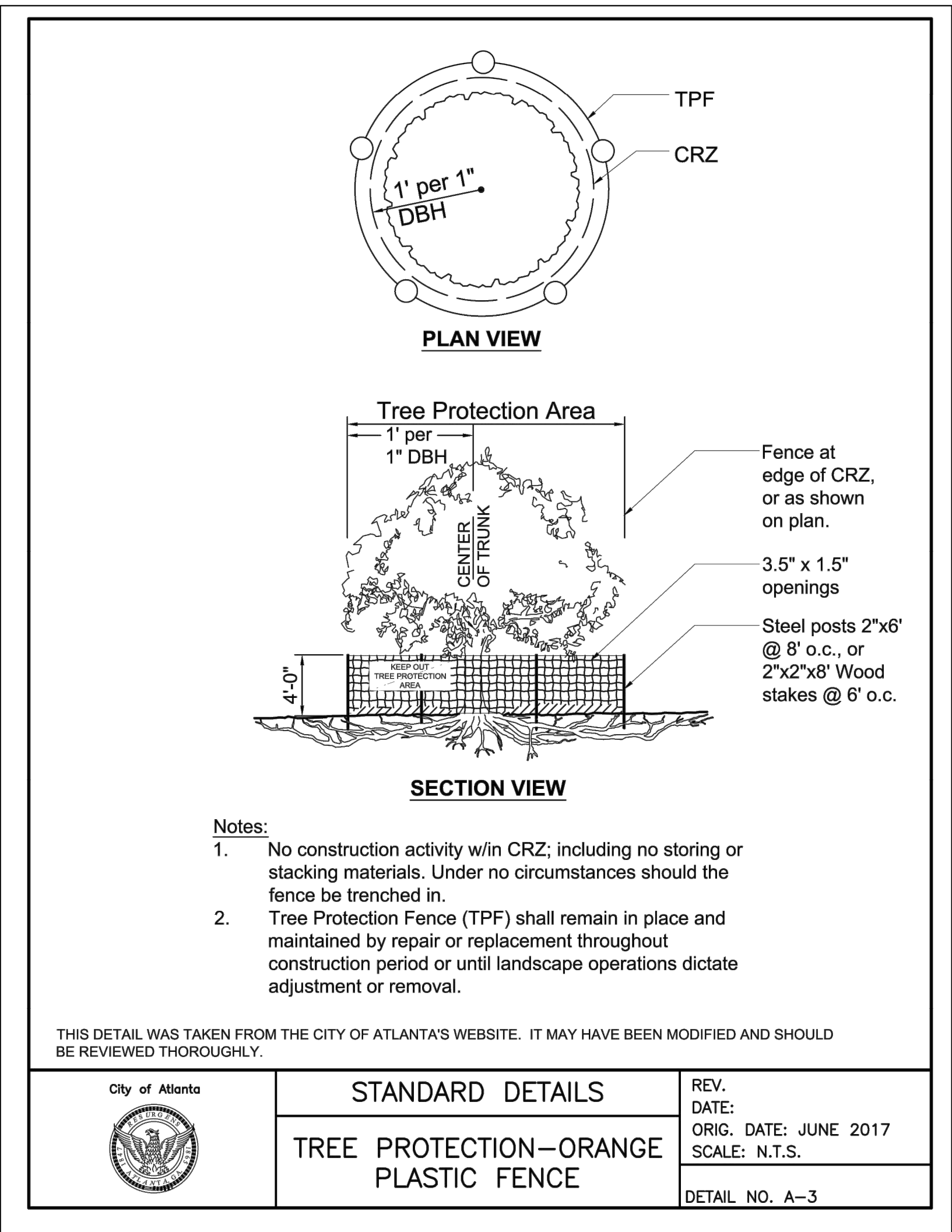
NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
WIRING DIAGRAMS

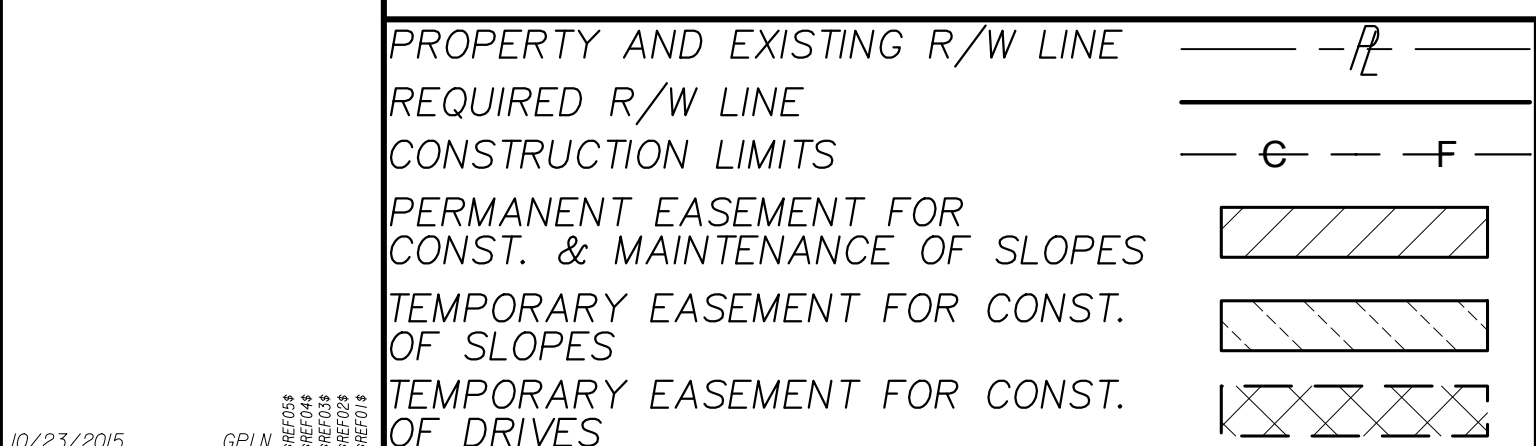
CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
25-301

NOTE: NO HEAVY EQUIPMENT SHALL BE USED OUTSIDE OF THE ORANGE BARRIER FENCING SHOWN ON THE PLANS. ALL WORK OUTSIDE OF THE ORANGE BARRIER FENCING BUT WITHIN THE PROPERTY LINE SHALL BE COMPLETED WITH THE USE OF HAND TOOLS.



REVISION 1
 REVISION 2
 REVISION 3
 REVISION 4
 REVISION 5
 REVISION 6
 REVISION 7
 REVISION 8
 REVISION 9
 REVISION 10



Atlanta BeltLine

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Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

REVISION DATES		TREE PROTECTION PLANS	
		ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:	VERIFIED:	DATE:
		DRAWING No.	
		29-000	

COA PUBLIC PROPERTY TREE DATA TABLE

Table with 6 columns: TREE #, DBH, SPECIES, IMPACT %, STATUS, Rcmp.DBH. Contains 86 rows of tree data.

COA PUBLIC PROPERTY TREE DATA TABLE

Table with 6 columns: TREE #, DBH, SPECIES, IMPACT %, STATUS, Rcmp.DBH. Contains 172 rows of tree data.

COA PUBLIC PROPERTY TREE DATA TABLE

Table with 6 columns: TREE #, DBH, SPECIES, IMPACT %, STATUS, Rcmp.DBH. Contains 275 rows of tree data.

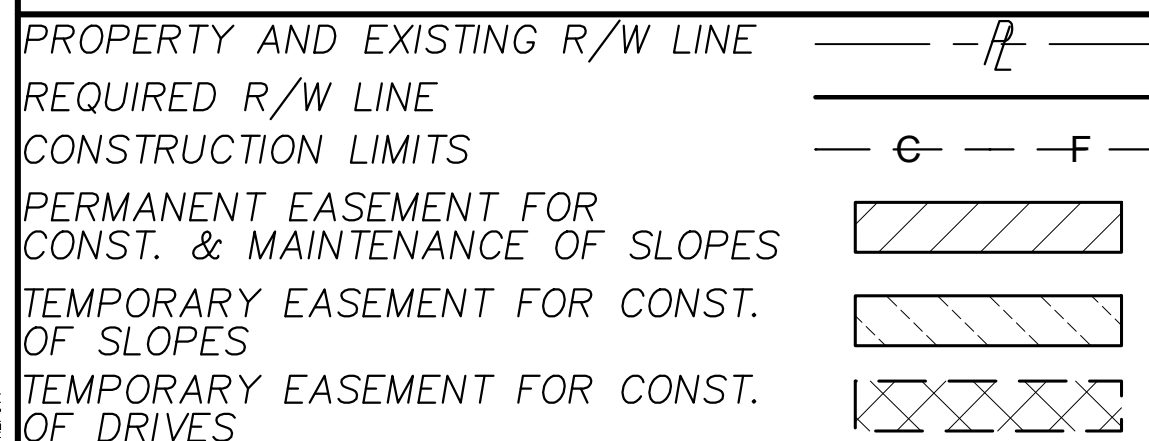
COA PUBLIC PROPERTY TREE DATA TABLE

Table with 6 columns: TREE #, DBH, SPECIES, IMPACT %, STATUS, Rcmp.DBH. Contains 362 rows of tree data.

COA PUBLIC PROPERTY TREE DATA TABLE

Table with 6 columns: TREE #, DBH, SPECIES, IMPACT %, STATUS, Rcmp.DBH. Contains 451 rows of tree data.

VERTICAL SCALE: 1" = 10' (VERTICAL SCALE: 1" = 10')



Atlanta BeltLine logo and Kimley-Horn & Associates, Inc. contact information.

REVISION DATES table, TREE PROTECTION PLANS title, and DRAWING No. 29-000A.

COA PUBLIC PROPERTY TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
452	4	Mimosa	0	DDH*	
453	3	Mimosa	0	DDH*	
454	11,8,6,6	Mimosa	100	DDH*	
455	8,8,4	Mimosa	100	DDH*	
456	5	Boxelder	0	DDH*	
457	4,3	Mimosa	100	DDH*	
458	4	White Mulberry	0	DDH*	
459	4	Hackberry	0	SAVE	
460	3	Cherry Laurel	29	DDH*	
461	7,3	Elm	0	SAVE	
462	4	Elm	0	SAVE	
463	4	Elm	0	SAVE	
464	20 (est.)	Loblolly Pine	0	SAVE	
465	8	Elm	0	SAVE	
466	7	Mimosa	100	DDH*	
467	24	Paulownia	50.6	DDH*	
468	18	Ash	0	SAVE	
469	11	Boxelder	36.7	DESTROY	11
470	11	Ash	2.7	SAVE	
471	26	Willow Oak	0	SAVE	
472	15	Loblolly Pine	0	SAVE	
473	33	Cottonwood	100	DDH*	
474	21	Tulip Poplar	100	DESTROY	21
475	7	Deodar Cedar	100	DESTROY	7
476	6	Overcup Oak	100	DESTROY	6
477	4	Redbud	0	SAVE	
478	6	Willow Oak	0	SAVE	
479	6	Overcup Oak	0	SAVE	
480	17	Southern Red Oak	0	SAVE	
481	17	Sugar Maple	17.5	SAVE	
501	6	Overcup Oak	0	SAVE	
502	5	Overcup Oak	0	SAVE	
503	20,17,16	Ash	4.9	SAVE	
505	2	Sawtooth Oak	0	SAVE	
509	10	Scarlet Oak	0	SAVE	
514	4	Chinese Pistache	0	SAVE	
515	5	Chinese Pistache	0	SAVE	
516	6	Scarlet Oak	0	SAVE	
517	6	Scarlet Oak	0	SAVE	
518	23	Southern Magnolia	0	SAVE	
519	4	Black Locust	0	SAVE	
520	5,3	Black Locust	0	SAVE	
521	4	Ailanthus	0	DDH*	
522	4	Mimosa	0	DDH*	
523	7	Ailanthus	0	DDH*	
524	8	Ailanthus	0	DDH*	
525	10	Ailanthus	0	DDH*	
526	4	Mimosa	0	DDH*	
527	10	White Mulberry	0	DDH*	
528	14	Cherry Laurel	2.9	DDH*	
529	23	Tulip Poplar	0	SAVE	
530	12	Tulip Poplar	0	SAVE	
531	16	Tulip Poplar	0	SAVE	
532	32	Tulip Poplar	5.4	DDH*	
533	42	Tulip Poplar	14.4	SAVE	
534	4	Hackberry	0	SAVE	
535	5,4,3	Boxelder	0	SAVE	
536	6,3	Boxelder	0	SAVE	
537	3	White Mulberry	0	DDH*	
538	5	White Mulberry	0	DDH*	
539	4	Boxelder	0	SAVE	
540	7	Boxelder	0	SAVE	
541	5,4,3	Boxelder	0	SAVE	
542	3	Elm	0	SAVE	
543	10	Silver Maple	0	SAVE	
544	11	Silver Maple	0	SAVE	
545	15	Loblolly Pine	0	SAVE	
546	3	Boxelder	0	SAVE	
547	5	Boxelder	0	SAVE	
548	5	Boxelder	0	SAVE	
549	6	Boxelder	0	SAVE	
550	5	Silver Maple	0	SAVE	
551	10	Silver Maple	0	SAVE	
552	8	Silver Maple	0	SAVE	
553	7	White Mulberry	0	DDH*	
554	3	Boxelder	0	SAVE	
555	4	Boxelder	0	SAVE	
556	5	Black Cherry	0	SAVE	
557	9	Boxelder	13.1	SAVE	
558	4	Boxelder	22.2	DDH*	
559	3	White Mulberry	30.1	DDH*	
560	7	Boxelder	0	SAVE	
561	7	Boxelder	0	SAVE	
562	7,7	Boxelder	100	DDH*	
563	7	Boxelder	0	DDH*	
564	6	Elm	0	SAVE	

COA PUBLIC PROPERTY TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
565	4,2	Boxelder	100	DDH*	
566	6	Boxelder	100	DDH*	
567	9,3	White Mulberry	0	DDH*	
568	3	White Mulberry	0	DDH*	
569	8	Water Oak	0	DDH*	
570	5,2	White Mulberry	0	DDH*	
571	5	Boxelder	0	DDH*	
572	4	Boxelder	0	SAVE	
573	5	Boxelder	0	SAVE	
574	5	Boxelder	0	SAVE	
575	5	Boxelder	0	SAVE	
576	6	Boxelder	100	DDH*	
577	9	Boxelder	11.5	SAVE	
578	4	Boxelder	0	SAVE	
579	8	Boxelder	0	SAVE	
580	4	Boxelder	0	SAVE	
581	15	Silver Maple	0	SAVE	
582	7	White Mulberry	0	DDH*	
583	4	Cryptomeria	0	DDH*	
584	9	Boxelder	0	SAVE	
585	4	Boxelder	0	SAVE	
586	6	Boxelder	100	DDH*	
587	7	Boxelder	43.7	DDH*	
588	4	Boxelder	100	DDH*	
589	5	Boxelder	100	DDH*	
590	7	Boxelder	0	SAVE	
591	10,10	Boxelder	100	DDH*	
592	6	Boxelder	100	DESTROY	6
593	8	Boxelder	100	DDH*	
594	3	Boxelder	100	DDH*	
595	5	Boxelder	100	DDH*	
596	4	Cherry Laurel	0	DDH*	
597	7	White Mulberry	0	DDH*	
598	7	Hackberry	0	SAVE	
599	5	Cherry Laurel	0	DDH*	
600	5	Cherry Laurel	0	DDH*	
601	24	Silver Maple	0	SAVE	
602	16	Silver Maple	0	DDH*	
603	6,2	Southern Magnolia	0	SAVE	
604	4	White Mulberry	0	DDH*	
605	7	Southern Magnolia	0	SAVE	
606	7	Southern Magnolia	0	SAVE	
607	4	Cryptomeria	0	DDH*	
608	4	Cryptomeria	0	DDH*	
609	3	Cryptomeria	0	DDH*	
610	4	Cryptomeria	0	DDH*	
611	4	Cryptomeria	0	DDH*	
612	5	Cryptomeria	0	DDH*	
613	5	Cryptomeria	0	DDH*	
614	4	Cryptomeria	0	DDH*	
615	5	Cryptomeria	0	DDH*	
616	6	Cryptomeria	0	DDH*	
617	5	Cryptomeria	0	DDH*	
618	6	Cryptomeria	0	DDH*	
619	4	Cryptomeria	0	DDH*	
620	6	Cryptomeria	0	SAVE	
621	5	Cryptomeria	0	SAVE	
622	23	Loblolly Pine	20.9	DESTROY	23
623	24	Silver Maple	100	DDH*	
624	3,3	Cherry Laurel	0	DDH*	
625	7	Boxelder	17.3	DDH*	
626	4	Cherry Laurel	30.2	DDH*	
627	4	Boxelder	100	DDH*	
628	5	Boxelder	100	DDH*	
629	24	Cottonwood	100	DESTROY	24
630	8	Boxelder	100	DDH*	
631	4	Cherry Laurel	100	DDH*	
632	4	Chinese Privet	100	DDH*	
633	8	Boxelder	100	DDH*	
634	3	Chinese Privet	100	DDH*	
635	5,3	Chinese Privet	100	DDH*	
636	5	Boxelder	100	DDH*	
637	6	Boxelder	100	DDH*	
638	4	Boxelder	100	DDH*	
639	7	Boxelder	100	DDH*	
640	5	Boxelder	100	DDH*	
641	7	Cherry Laurel	100	DDH*	
642	3	Boxelder	100	DDH*	
643	6	Boxelder	100	DDH*	
644	9	Boxelder	100	DDH*	
645	3	Cherry Laurel	100	DDH*	
646	7	Boxelder	100	DDH*	
647	4	Cherry Laurel	100	DDH*	
648	10	Boxelder	100	DDH*	
649	6	Boxelder	100	DDH*	
650	20	Cottonwood	100	DESTROY	20

COA PUBLIC PROPERTY TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
651	3	Cherry Laurel	100	DDH*	
652	7,3	Boxelder	100	DDH*	
653	5	Boxelder	100	DDH*	
654	4	Cherry Laurel	100	DDH*	
655	7	Boxelder	100	SAVE	
656	24	Cottonwood	100	DESTROY	24
657	11	Boxelder	100	DDH*	
658	3	Cherry Laurel	100	DDH*	
659	5	Boxelder	100	DDH*	
660	6	Boxelder	100	DDH*	
661	3	Hackberry	100	DDH*	
662	13	Silver Maple	100	DESTROY	13
663	5	Elm	100	DESTROY	5
664	3	Cherry Laurel	100	DDH*	
665	4	Boxelder	100	DDH*	
666	16,12	Elm	100	DDH*	
667	7	Deodar Cedar	38	DESTROY	7
668	4	Boxelder	100	DDH*	
669	7,5	White Mulberry	100	DDH*	
670	9	Elm	100	DESTROY	9
671	9	Hackberry	100	DESTROY	9
672	23	Silver Maple	100	DDH*	
673	4	Cherry Laurel	100	DDH*	
674	5	White Mulberry	0	DDH*	
675	8	Elm	16.6	DESTROY	8
676	16	Silver Maple	28.2	DDH*	
677	8	Cherry Laurel	0	DDH*	
678	4	Cherry Laurel	100	DDH*	
679	5	Boxelder	100	DDH*	
680	10	White Mulberry	100	DDH*	
681	6	Boxelder	100	DDH*	
682	4	Boxelder	100	DDH*	
683	8	Boxelder	100	DDH*	
684	5	Boxelder	100	DDH*	
685	6	Boxelder	100	DDH*	
686	8	Boxelder	100	DDH*	
687	8	Boxelder	100	DDH*	
688	10	Boxelder	100	DDH*	
689	3	Cherry Laurel	100	DDH*	
690	23	Silver Maple	0	SAVE	
691	13	Loblolly Pine	0	SAVE	
692	14	Loblolly Pine	4.7	SAVE	
693	10	Loblolly Pine	19.9	SAVE	
694	12	Loblolly Pine	13	SAVE	
695	14	Loblolly Pine	36	DESTROY	14
696	11	Loblolly Pine	0	DDH*	11
697	9	Loblolly Pine	27.7	DESTROY	9
698	13	Loblolly Pine	100	DDH*	
699	11	Loblolly Pine	100	DESTROY	11
700	14	Loblolly Pine	100	DESTROY	14
701	16	Loblolly Pine	100	DDH*	
702	15	Loblolly Pine	100	DESTROY	15
703	12	Loblolly Pine	100	DESTROY	12
704	14	Loblolly Pine	100	DESTROY	14
705	14	Loblolly Pine	100	DESTROY	14
706	14	Loblolly Pine	100	DESTROY	14
707	7	Cherry Laurel	100	DDH*	
708	22	Loblolly Pine	100	DESTROY	22
709	34	Water Oak	100	DESTROY	34
710	12	Water Oak	100	DESTROY	12
711	27	Water Oak	100	DESTROY	27
712	4	Cherry Laurel	100	DDH*	
713	18	Water Oak	100	DESTROY	18
714	3	Cherry Laurel	100	DDH*	
715	3	Cherry Laurel	100	DDH*	
716	21	Water Oak	42.5	DESTROY	21
717	4	Cherry Laurel	100	DDH*	
718	24	Loblolly Pine	100	DESTROY	24
719	3	Cherry Laurel	100	DDH*	
720	3	Cherry Laurel	100	DDH*	
721	6	Paulownia	100	DDH*	
722	4	Cherry Laurel	100	DDH*	
723	11	Sweetgum	100	DESTROY	11
724	4	Cherry Laurel	100	DDH*	
725	26	Water Oak	100	DESTROY	26
726	8	Hickory	100	DESTROY	8
727	4	Cherry Laurel	100	DDH*	
728	6	Mimosa	100	DDH*	
729	3	Cherry Laurel	100	DDH*	
730	19	Loblolly Pine	100	DESTROY	19
731	18	Black Cherry	100	DDH*	
732	22	Sweetgum	100	DDH*	
733	24	Sweetgum	100	DESTROY	24
734	6	Mimosa	100	DDH*	
735	10	Paulownia	100	DDH*	
736	15	Tulip Poplar	100	DESTROY	15

COA PUBLIC PROPERTY TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
737</					

RECOMPENSE CALCULATIONS
 $R = \$100 (Nrem - Nrep) + \$30 (TDBHrem - TCrep)$
 Nrem = 14
 Nrep = 0
 TDBHrem = 250"
 TCrep = 0"
 $R = \$100 (14-0) + \$30 (250-0) = \$8,900$
RECOMPENSE REQUIRED

COA PRIVATE PROPERTY IMPACTED TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
226	16	WHITE MULBERRY	100	DDH*	
227	18	WHITE MULBERRY	100	DDH*	
239	38	RIVER BIRCH	100	DDH*	
240	22	RIVER BIRCH	100	DESTROY	22
242	56	RIVER BIRCH	100	DESTROY	56
243	50	BOXELDER	100	DDH*	
245	14	SCARLET OAK	100	DESTROY	14
261	12	SCARLET OAK	100	DESTROY	12
262	11	SCARLET OAK	100	DESTROY	11
263	12	SCARLET OAK	100	DESTROY	12
264	13	SCARLET OAK	41	DESTROY	13
265	13	SCARLET OAK	43	DESTROY	13
266	14	SCARLET OAK	100	DESTROY	14
267	14	SCARLET OAK	100	DESTROY	14
268	13	SCARLET OAK	100	DESTROY	13
269	15	SCARLET OAK	100	DESTROY	15
786	13	WATER OAK	2	SAVE	
787	8	WILLOW OAK	11	SAVE	
788	11	SWEETGUM	2	SAVE	
789	22	LOBLOLLY PINE	25	DESTROY	22
790	19	SWEETGUM	2	SAVE	
791	19	LOBLOLLY PINE	32	DESTROY	19
794	13	LOBLOLLY PINE	24	DDH*	
796	18	LOBLOLLY PINE	4	SAVE	
TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
SUBTOTALS	14				250

SUBTOTALS
 (For viable trees requiring recompense)

NOTES:

1. Saved / P = Saved, prescription req'd (20-33% impact)
 2. Saved: Less than 20% impact to CRZ + no SRP impact
 3. Rcmp DBH = Recompense DBH
 4. DDH: Dead, Dying, Hazardous Trees Certified by COA (cite DDH permit # at bottom of this table)
 5. Destroy: = Destroyed, Recompense req'd (over 33% impact)
 6. Destroyed = Removed prior to permit
 7. Reference the DDH permit # below the table
- * DDH Permit No. BA-

*NOTE TO ARBORIST:
 TREES LOCATED ON PROPERTIES THAT HAVE PERMANENT OR TEMPORARY EASEMENTS DO NOT INCLUDE BOUNDARY TREE AGREEMENTS. THE LEGALIZATION OF THE EASEMENT WITH EACH INDIVIDUAL PROPERTY OWNER ACKNOWLEDGES THE IMPACT TO THE PROPERTY AND THE FINANCIAL COMPENSATION FOR DESTRUCTION OF PROPERTY AND CONSTRUCTION ACTIVITIES TO TAKE PLACE.*

REVISION DATES

REVISION DATES

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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 ATLANTA, GEORGIA 30308
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REVISION DATES	

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 COA PRIVATE PROPERTY RECOMPENSE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	29-000C
CORRECTED:	DATE:	
VERIFIED:	DATE:	

GDOT TREE REPLACEMENT REQUIREMENTS

8.5 - REPLACEMENT PLANTING REQUIREMENTS FOR MITIGATION

When landscape enhancement replacement plants are required:

1. Provide a landscape design proposal plan for replacement plants at a ratio of one-half (1/2) of the total caliper inches of trees removed and one-fourth (1/4) of the total square feet of existing native understory vegetation removed.
2. Thirty percent (30%) of the replacement shrubs and seventy-five percent (75%) of replacement trees shall be native species or cultivars of native species.
3. Seventy-five percent (75%) of all proposed trees shall be large-canopy, hardwood shade trees.
4. Grass all disturbed ground areas not planted in trees and shrubs according to GDOT Specifications.

If the Department determines that landscape mitigation cannot be reasonably accommodated, then the remainder of the mitigation shall be fees according to Section 16-2 - Excess Clearing Fees.

16.2 - EXCESS CLEARING FEES

A Contributory Value fee is assessed to compensate for any remaining replacement plants to complete the mitigation for additional grading or clearing activities beyond what is necessary for driveway access construction where the Department determines that the required landscape replacement plants cannot reasonably be installed to compensate for the total amount of lost vegetation. The corresponding Contributory Value fees in this case can be calculated by multiplying the remaining caliper inches that cannot be replaced on the site by seven dollars (\$7.00). See Sections 3-1 - Plan Requirements and 8.4 - Necessity to Prove a Benefit to the Department for Excess Grading.

8.4 - NECESSITY TO PROVE A BENEFIT TO THE DEPARTMENT FOR EXCESS GRADING

Grading activity or vegetation removal on the rights of way, not directly related to commercial driveway access construction or for a Special Encroachment Permit, must demonstrate a substantial benefit to the Department. Provide a base map as outlined in the Plan Requirements section. When "vegetation control", "grading with tree removal", "driveway clearing", "landscape clearing", "landscape clean-up", "vegetation management", "tree trimming", or "vegetation removal" requests are made for work to be done on the rights of way, the following additional items must be included in the proposal:

1. Existing and proposed grading contours
2. The construction grading boundary reasonably required to create a new driveway access.
3. The boundary of the additional excess grading.
4. The beginning and ending points at the edge of the road that mark the boundaries of proposed tree removal for the new driveway access point. Measure the number of feet between these two points.
5. A tree inventory. When proposing tree removal beyond what is required for driveway construction, provide an inventory of the trees that are to be removed that are four (4) inches or greater, measured at diameter at breast height (dbh), which is 4 1/2 feet above ground. Provide a total of the caliper inches of those trees.

During review, if a substantial safety or maintenance benefit to the Department is verified for additional vegetation removal as a result of additional grading or clearing activities beyond what is necessary for driveway access construction, or as the result of grading for approved Special Encroachment Permits, the applicant must provide landscape enhancement, site restoration, and replacement plants as mitigation for any lost vegetation.

GDOT TREE REPLACEMENT CALCULATIONS

OF INCHES REMOVED FROM GDOT LAND: 137
 # OF INCHES REMOVED X 1/2 = TOTAL # OF INCHES TO BE REPLACED: 137 X 1/2 = 68.5
 # OF INCHES REPLACED ON GDOT LAND: 0
 DEFICIT OF 68.5 INCHES
 # OF INCHES X \$7 = 68.5 x \$7 = \$479.50 TOTAL MITIGATION FEE

GDOT TREE DATA TABLE

TREE #	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH	
482	29	Water Oak	100	DESTROY	29	
483	19	Cottonwood	39.4	DESTROY	19	
484	7	Overcup Oak	100	DESTROY	7	
485	6	Willow Oak	100	DESTROY	6	
486	20,15	Cottonwood	21.6	DESTROY	35	
487	5	Willow Oak	100	DESTROY	5	
488	6	Willow Oak	100	DESTROY	6	
489	26	Water Oak	100	DESTROY	26	
490	2	Redbud	0	SAVE		
491	2	Redbud	0	SAVE		
492	4	Willow Oak	100	DESTROY	4	
493	5	Willow Oak	0	SAVE		
494	7	Chinese Elm	0	SAVE		
495	2	Redbud	0	SAVE		
496	4	Redbud	0	SAVE		
497	5	Redbud	0	SAVE		
498	8	Chinese Elm	2.4	SAVE		
499	8	Overcup Oak	0	SAVE		
500	7	Overcup Oak	0	SAVE		
SUBTOTALS	9	DBH	SPECIES	IMPACT %	STATUS	Rcmp.DBH
						137

(For viable trees requiring recompense)

REVISION DATES
 CHECKED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____
 CORRECTED: _____ DATE: _____
 VERIFIED: _____ DATE: _____

REVISION DATES
 CHECKED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____
 CORRECTED: _____ DATE: _____
 VERIFIED: _____ DATE: _____

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

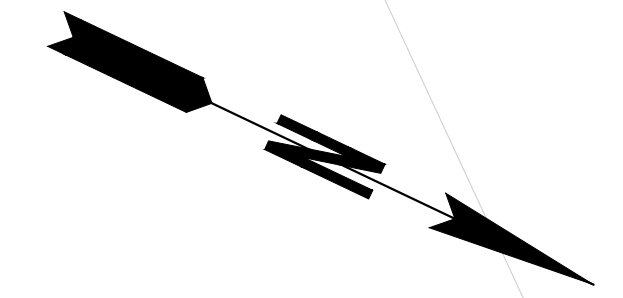
Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley-Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

REVISION DATES	

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL
 GDOT RECOMPENSE

CHECKED: _____	DATE: _____	DRAWING No. 29-000D
BACKCHECKED: _____	DATE: _____	
CORRECTED: _____	DATE: _____	
VERIFIED: _____	DATE: _____	



N/F
CITY OF ATLANTA
TAX ID# 17 0055LL0140
DB 19, PG 730
NO TITLE REPORT

N/F
SHURGARD EVERGREEN LIMITED
PARTNERSHIP
TAX ID# 17 005500020568
DB 13691, PG 102
NO TITLE REPORT
268 WESTWINSTER DRIVE NE

N/F
JAMES B. CUMMING
1475 PIEDMONT AVENUE NE

30' RIGHT OF WAY EASEMENT
GEORGIA POWER COMPANY
DB 3872, PG 463

8" SOLID
WHITE (TYP.)

GDOT TP. A RAMP
ORANGE BARRIER
FENCE (TYP.)
LIMITS OF WORK (TYP.)
LIMITS OF DISTURBANCE (TYP.)
COA TREE PROTECTION FENCING (TYP.)

INSTALL ADA DETECTABLE
WARNING STRIP
INSTALL TRASH RECEPTACLE
SEE 38-SERIES SHEETS
FOR DETAILS

24" SOLID WHITE
(TYP.)

N/F
CITY OF ATLANTA
ID# 17 0055LL0124
GPC ID# 061
DB 17688, PG 87
DB 17688, PG 90
DB 17688, PG 93

N/F
CITY OF ATLANTA
TAX ID# 17 0055LL0124
GPC ID# 061
DB 17688, PG 87
DB 17688, PG 90
DB 17688, PG 93

40' RIGHT OF WAY EASEMENT
GEORGIA POWER COMPANY
DB 354, PG 69

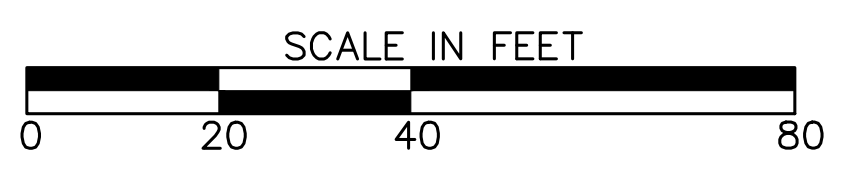
NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
--- TPF ---	COA TREE PROTECTION FENCING
--- LOD ---	LIMITS OF DISTURBANCE
---	LIMITS OF WORK
---	COA SETBACKS
---●---	ORANGE BARRIER FENCING
○ 100	TREE TO BE SAVED
⊗ 100	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---E---F---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

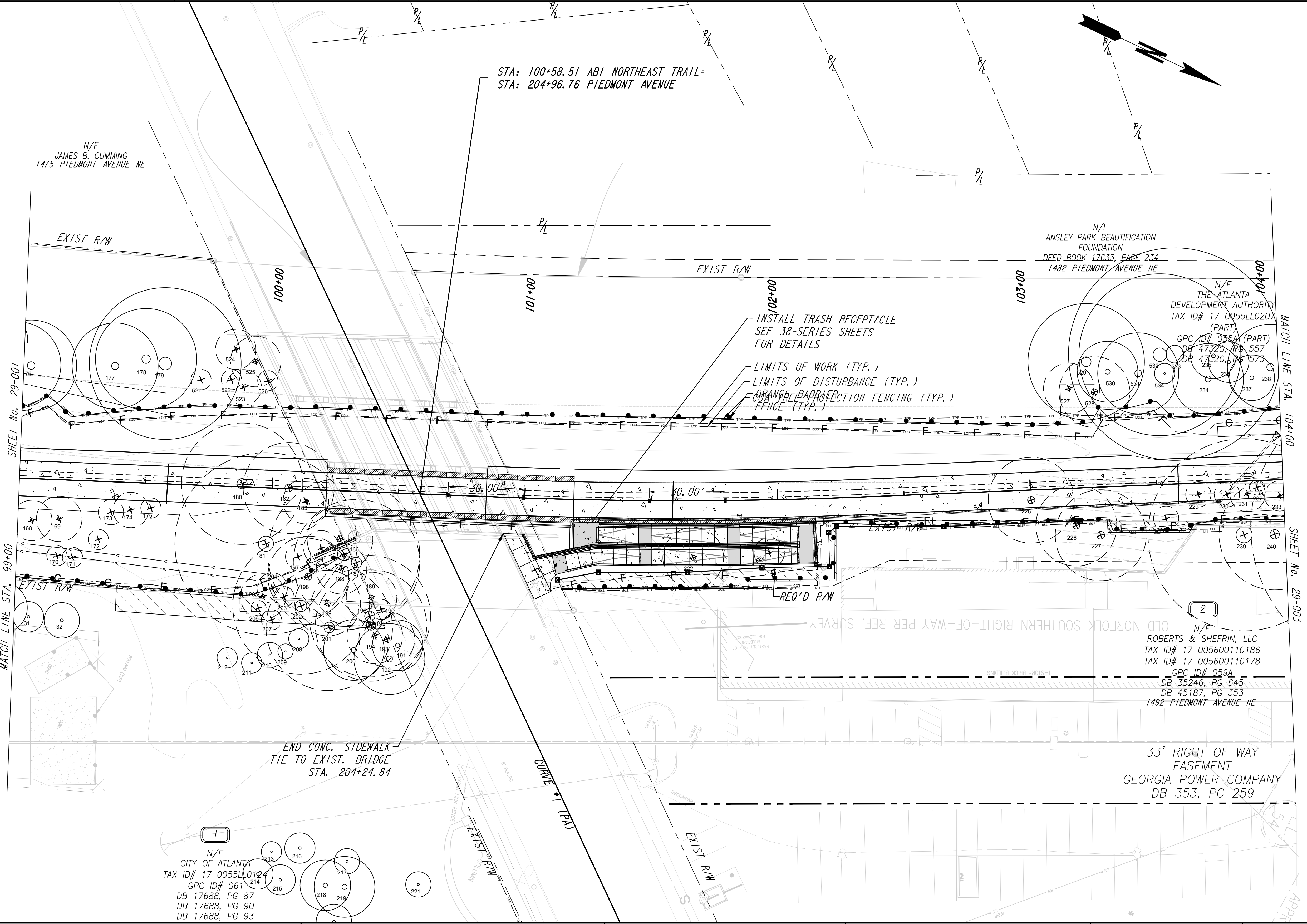
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

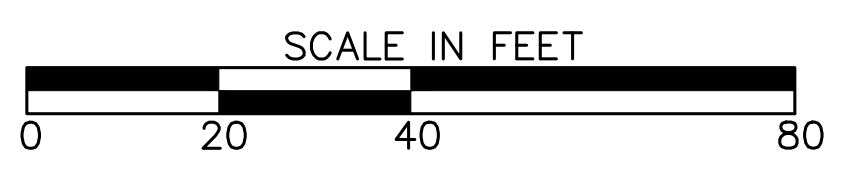


NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	--- F ---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Box]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Hatched Box]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Hatched Box]

Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

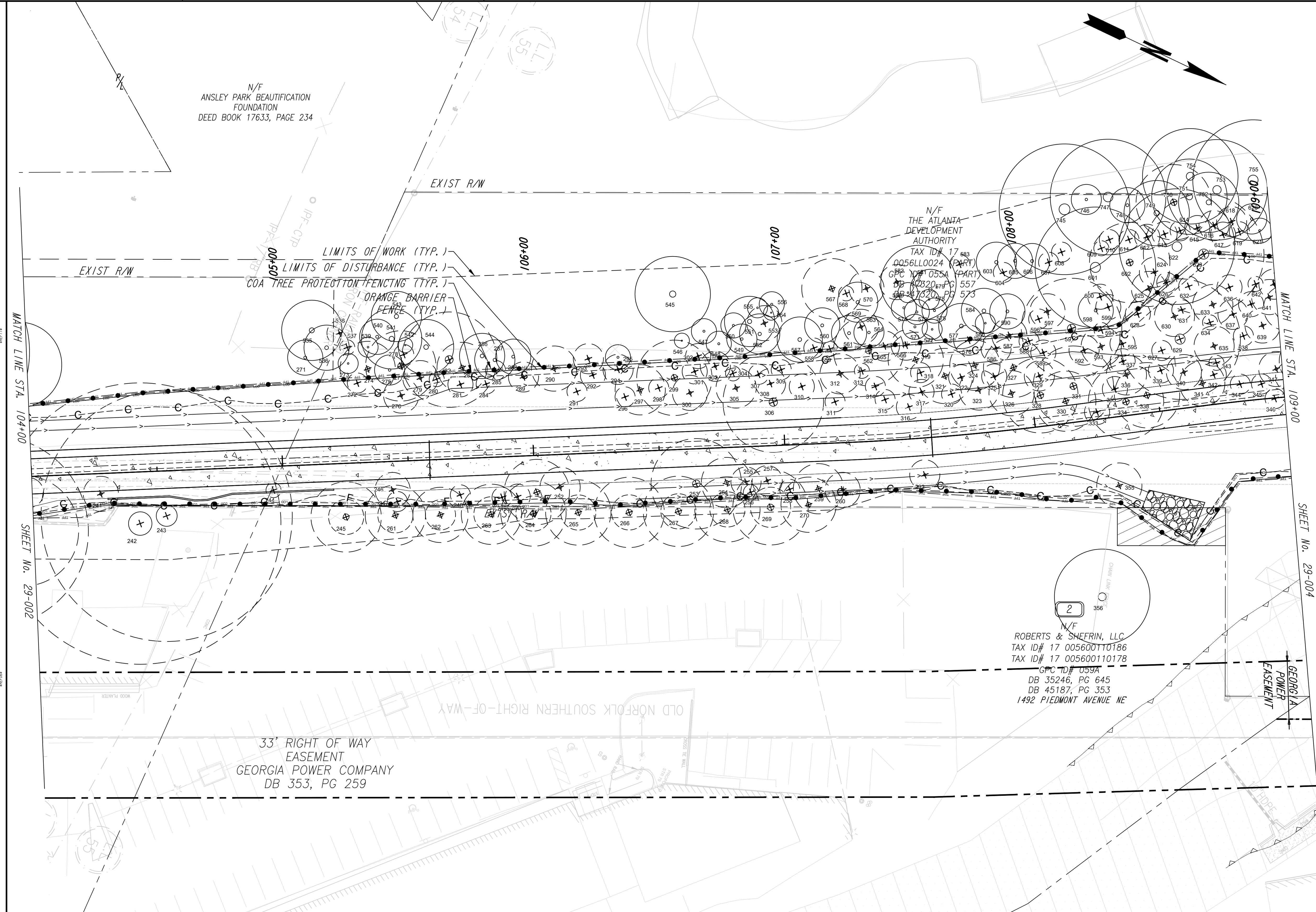
Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



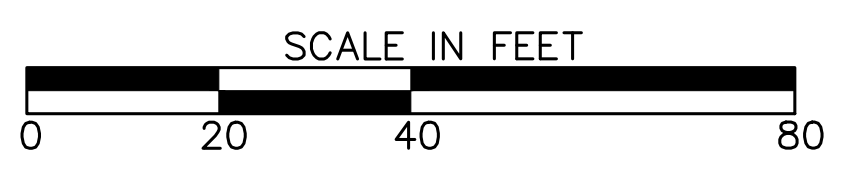
NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
--- TPF ---	COA TREE PROTECTION FENCING
--- LOD ---	LIMITS OF DISTURBANCE
---	LIMITS OF WORK
---	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	—G—F—
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

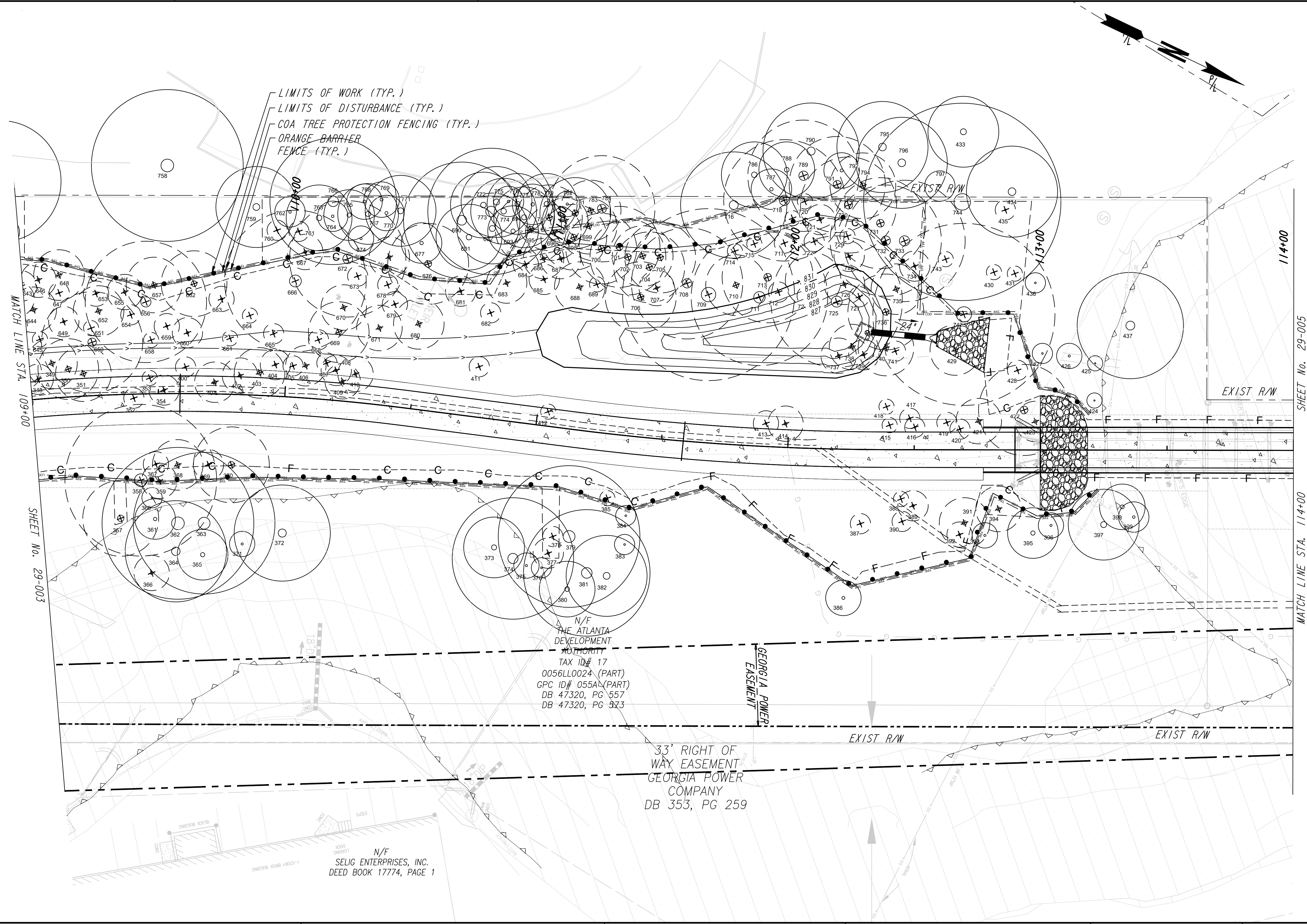
Atlanta BeltLine
Kimley»Horn
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
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 FAX: (404) 477-3606

KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
— TPF —	COA TREE PROTECTION FENCING
- - - LOD - - -	LIMITS OF DISTURBANCE
- - - - -	LIMITS OF WORK
- - - - -	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	— F —
REQUIRED R/W LINE	— F —
CONSTRUCTION LIMITS	— G — F
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Hatched Pattern]

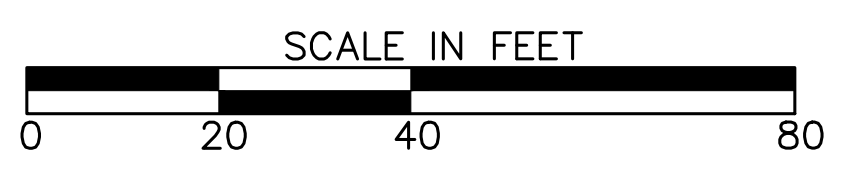
N/F SELIG ENTERPRISES, INC. DEED BOOK 17774, PAGE 1

N/F THE ATLANTA DEVELOPMENT AUTHORITY
 TAX ID# 17 0056LL0024 (PART)
 GPC ID# 055A (PART)
 DB 47320, PG 557
 DB 47320, PG 523

33' RIGHT OF WAY EASEMENT
 GEORGIA POWER COMPANY
 DB 353, PG 259

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



REVISION DATES	

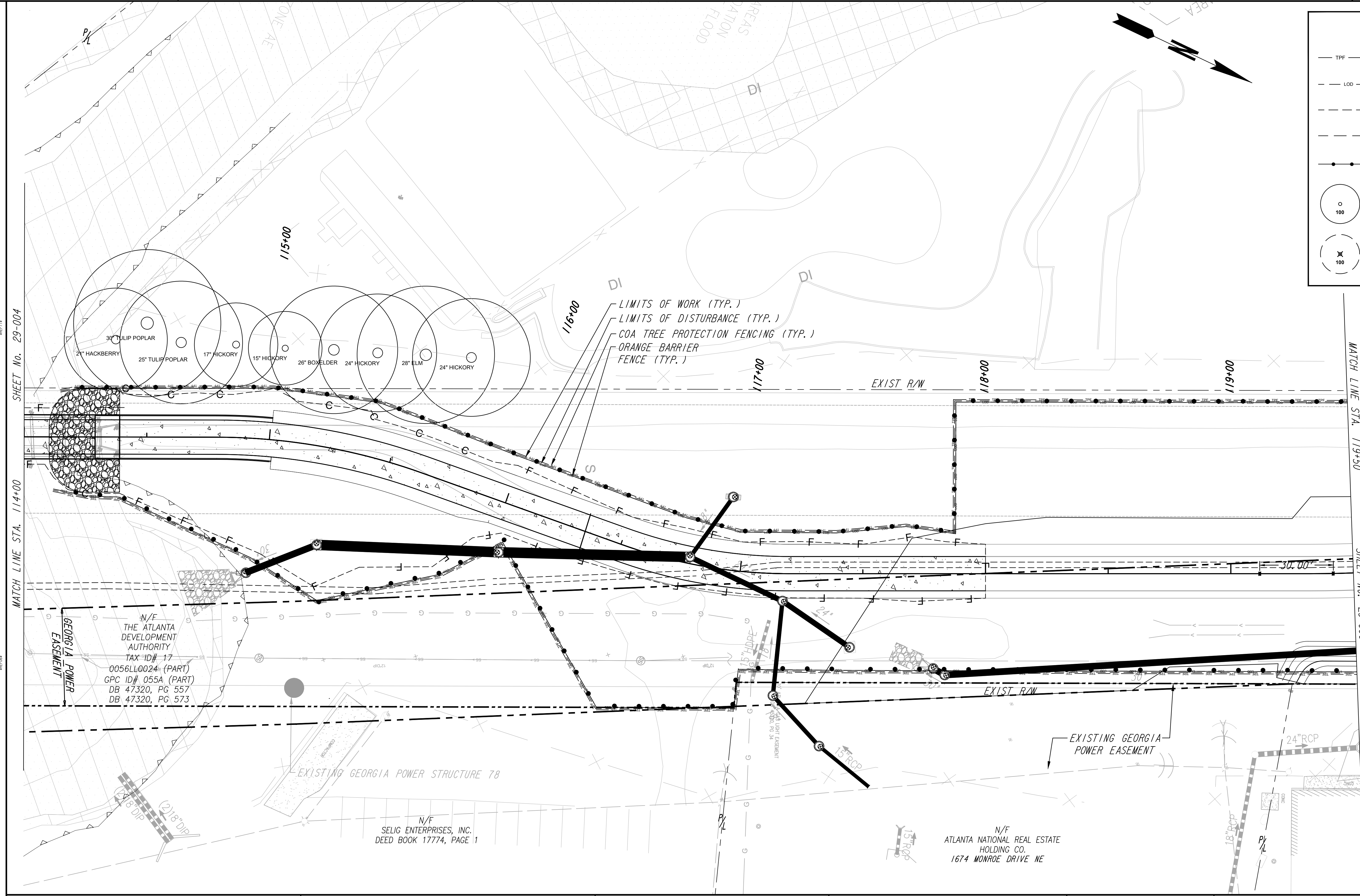
TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

LEGEND

- TPF — COA TREE PROTECTION FENCING
- - - LOD - LIMITS OF DISTURBANCE
- - - - - LIMITS OF WORK
- - - - - COA SETBACKS
- ● ● ORANGE BARRIER FENCING
- 100 TREE TO BE SAVED
- ⊗ 100 TREE TO BE DESTROYED

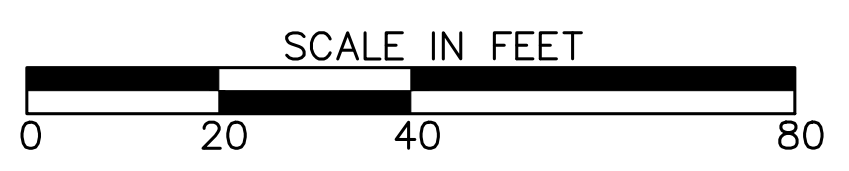
NOTE TO CONTRACTOR:
 TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.



PROPERTY AND EXISTING R/W LINE	— P —
REQUIRED R/W LINE	— G — F
CONSTRUCTION LIMITS	— G — F
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Hatched Pattern]

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



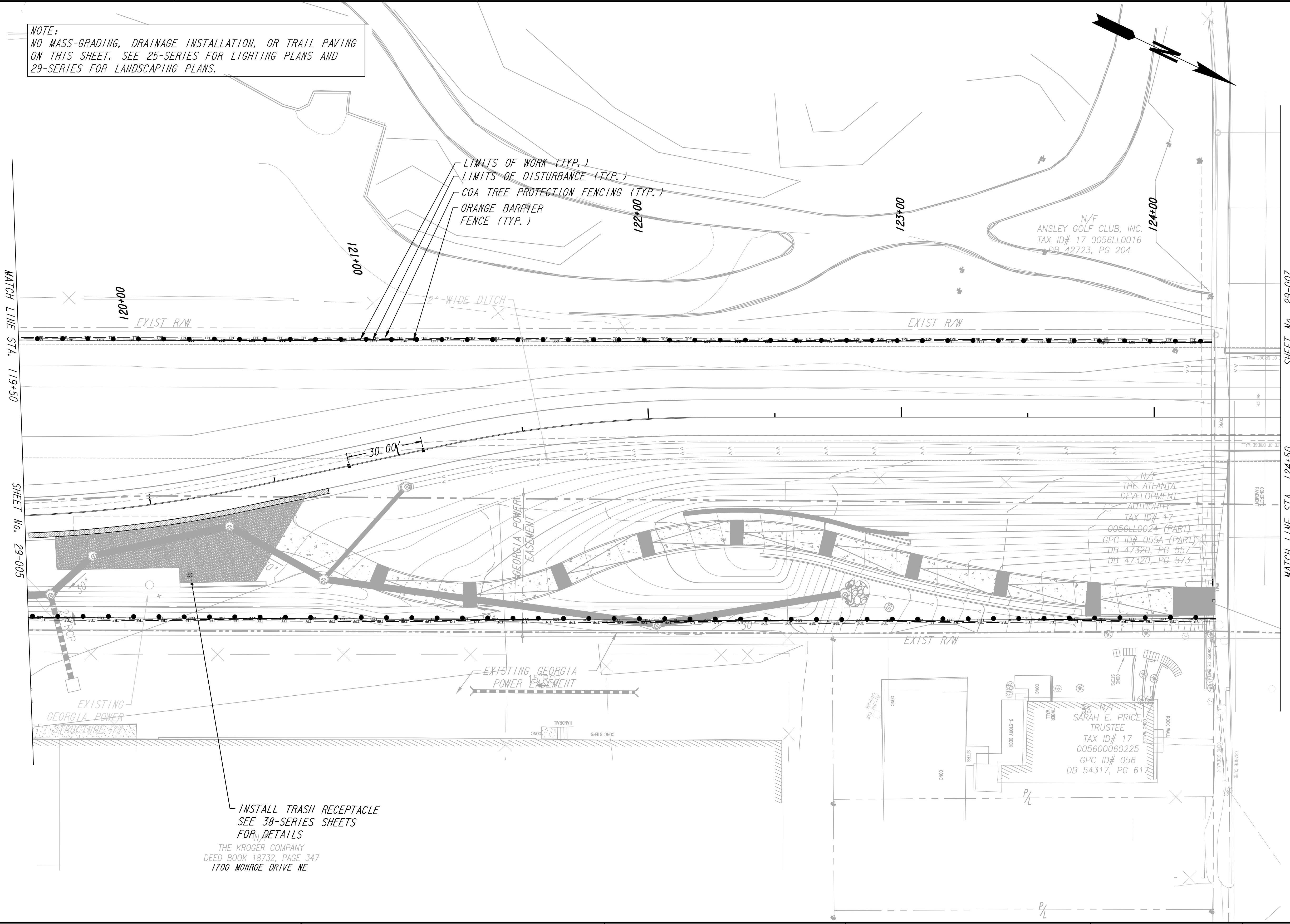
REVISION DATES

NO.	DATE	DESCRIPTION

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.



NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
— TPF —	COA TREE PROTECTION FENCING
- - - LOD - - -	LIMITS OF DISTURBANCE
- - - - -	LIMITS OF WORK
- - - - -	COA SETBACKS
● — ●	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

INSTALL TRASH RECEPTACLE
 SEE 38-SERIES SHEETS
 FOR DETAILS
 THE KROGER COMPANY
 DEED BOOK 18732, PAGE 347
 1700 MONROE DRIVE NE

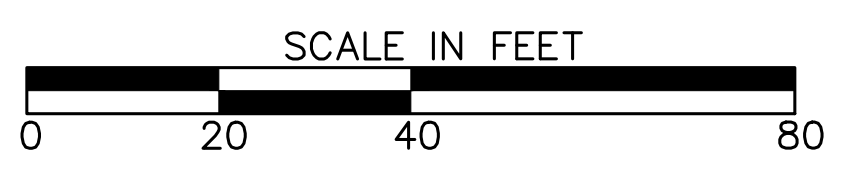
PROPERTY AND EXISTING R/W LINE	— P/L —
REQUIRED R/W LINE	— G — F —
CONSTRUCTION LIMITS	▨
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

Atlanta BeltLine

ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



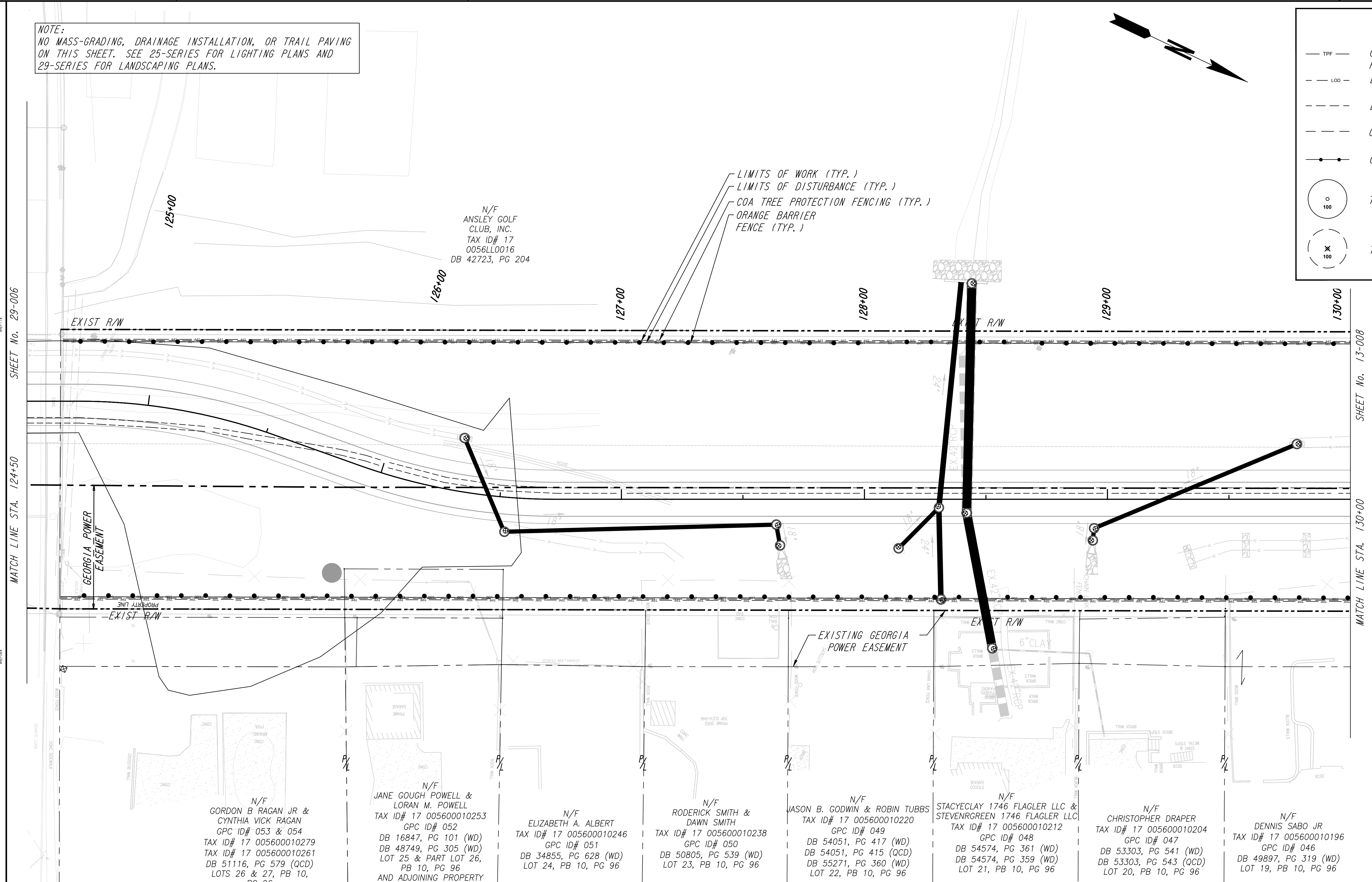
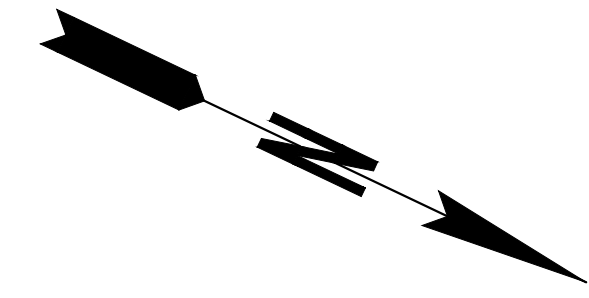
REVISION DATES	

TREE PROTECTION PLANS ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.

LEGEND

- TPF --- COA TREE PROTECTION FENCING
- LOD --- LIMITS OF DISTURBANCE
- LWS --- LIMITS OF WORK
- CS --- COA SETBACKS
- OBF --- ORANGE BARRIER FENCING
- 100 TREE TO BE SAVED
- ⊗ 100 TREE TO BE DESTROYED



NOTE TO CONTRACTOR:
 TREES IDENTIFIED FOR
 REMOVAL BETWEEN THE
 LIMITS OF DISTURBANCE
 AND LIMITS OF WORK
 SHALL BE DONE BY HAND
 TOOLS ONLY, HEAVY
 EQUIPMENT IS NOT
 PERMITTED PAST THE
 LIMITS OF DISTURBANCE.

N/F
 GORDON B RAGAN JR &
 CYNTHIA VICK RAGAN
 GPC ID# 053 & 054
 TAX ID# 17 005600010279
 TAX ID# 17 005600010261
 DB 51116, PG 579 (QCD)
 LOTS 26 & 27, PB 10,
 PG 96

N/F
 JANE GOUGH POWELL &
 LORAN M. POWELL
 TAX ID# 17 005600010253
 GPC ID# 052
 DB 16847, PG 101 (WD)
 DB 48749, PG 305 (WD)
 LOT 25 & PART LOT 26,
 PB 10, PG 96
 AND ADJOINING PROPERTY

N/F
 ELIZABETH A. ALBERT
 TAX ID# 17 005600010246
 GPC ID# 051
 DB 34855, PG 628 (WD)
 LOT 24, PB 10, PG 96

N/F
 RODERICK SMITH &
 DAWN SMITH
 TAX ID# 17 005600010238
 GPC ID# 050
 DB 50805, PG 539 (WD)
 LOT 23, PB 10, PG 96

N/F
 JASON B. GODWIN & ROBIN TUBBS
 TAX ID# 17 005600010220
 GPC ID# 049
 DB 54051, PG 417 (WD)
 DB 54051, PG 415 (QCD)
 DB 55271, PG 360 (WD)
 LOT 22, PB 10, PG 96

N/F
 STACYECLAY 1746 FLAGLER LLC &
 STEVENRGREEN 1746 FLAGLER LLC
 TAX ID# 17 005600010212
 GPC ID# 048
 DB 54574, PG 361 (WD)
 DB 54574, PG 359 (WD)
 LOT 21, PB 10, PG 96

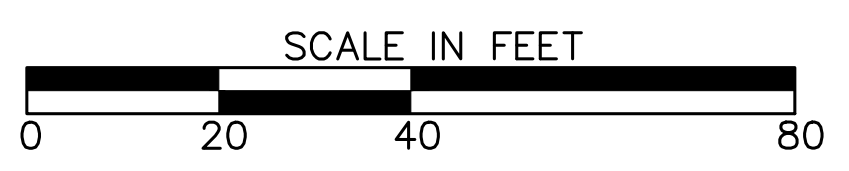
N/F
 CHRISTOPHER DRAPER
 TAX ID# 17 005600010204
 GPC ID# 047
 DB 53303, PG 541 (WD)
 DB 53303, PG 543 (QCD)
 LOT 20, PB 10, PG 96

N/F
 DENNIS SABO JR
 TAX ID# 17 005600010196
 GPC ID# 046
 DB 49897, PG 319 (WD)
 LOT 19, PB 10, PG 96

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	--- G --- F ---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Cross-hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Diagonal-hatched Pattern]

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

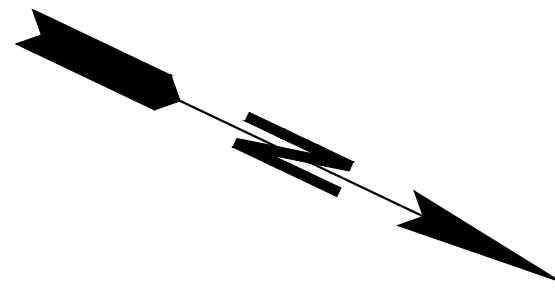


REVISION DATES	

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL

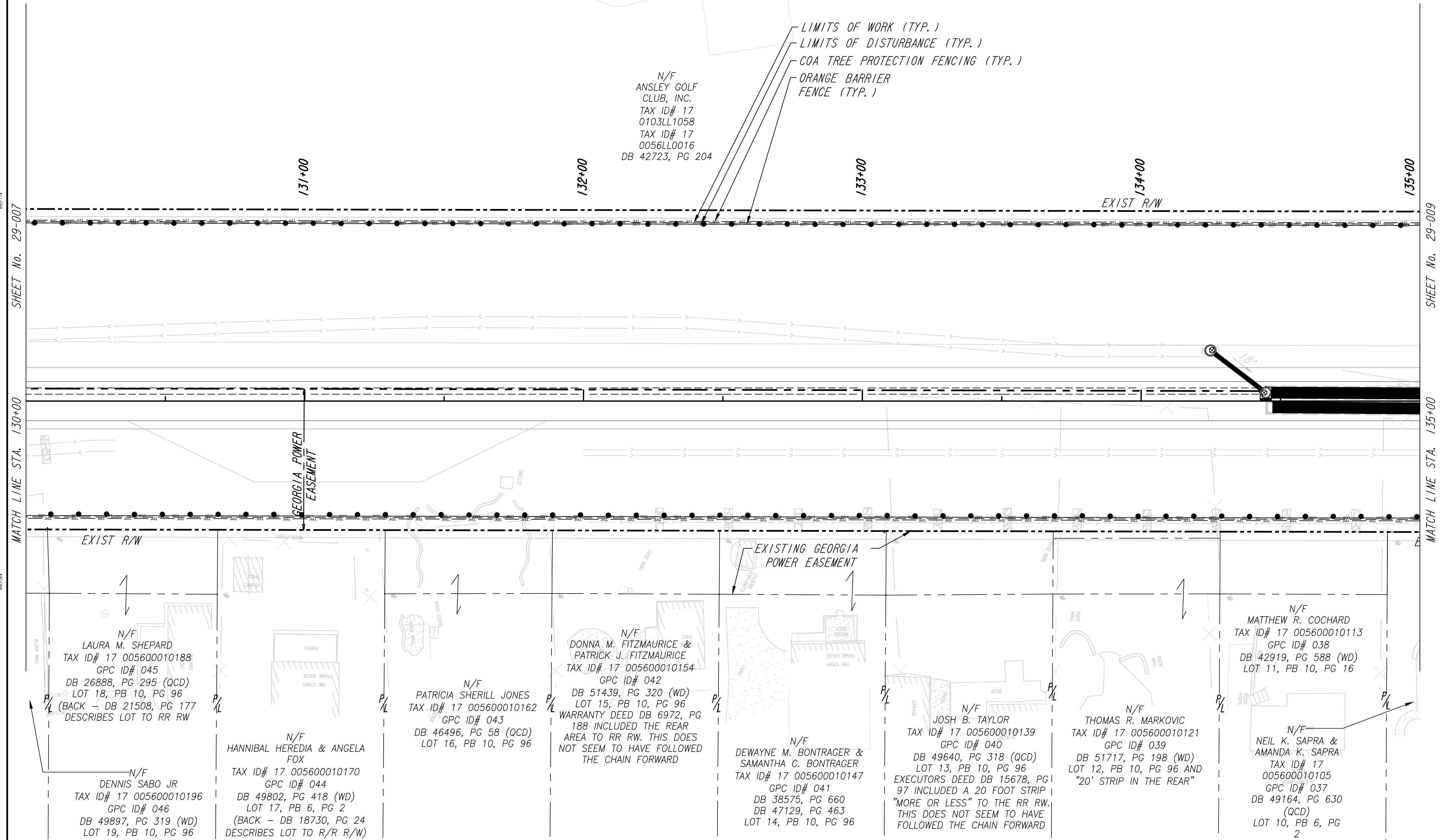
CHECKED:	DATE:	DRAWING No. 29-007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING
 ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND
 29-SERIES FOR LANDSCAPING PLANS.



N/F
 ANSLEY GOLF
 CLUB, INC.
 TAX ID# 17
 0103LL1058
 TAX ID# 17
 0056LL0016
 DB 42723, PG 204

LIMITS OF WORK (TYP.)
 LIMITS OF DISTURBANCE (TYP.)
 COA TREE PROTECTION FENCING (TYP.)
 ORANGE BARRIER
 FENCE (TYP.)



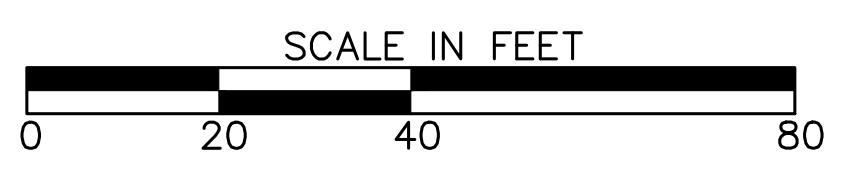
NOTE TO CONTRACTOR: TREES
 IDENTIFIED FOR REMOVAL BETWEEN THE
 LIMITS OF DISTURBANCE AND LIMITS
 OF WORK SHALL BE DONE BY HAND
 TOOLS ONLY, HEAVY EQUIPMENT IS NOT
 PERMITTED PAST THE LIMITS OF
 DISTURBANCE.

LEGEND	
— TPF —	COA TREE PROTECTION FENCING
- - - LOD - - -	LIMITS OF DISTURBANCE
- - - - -	LIMITS OF WORK
- - - - -	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○ 100	TREE TO BE SAVED
⊗ 100	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	— P —
REQUIRED R/W LINE	— F —
CONSTRUCTION LIMITS	— G — F —
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Cross-hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Diagonal Hatched Pattern]

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
 ATLANTA, GA 30303
 TEL: (404) 477-3003
 FAX: (404) 477-3606

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



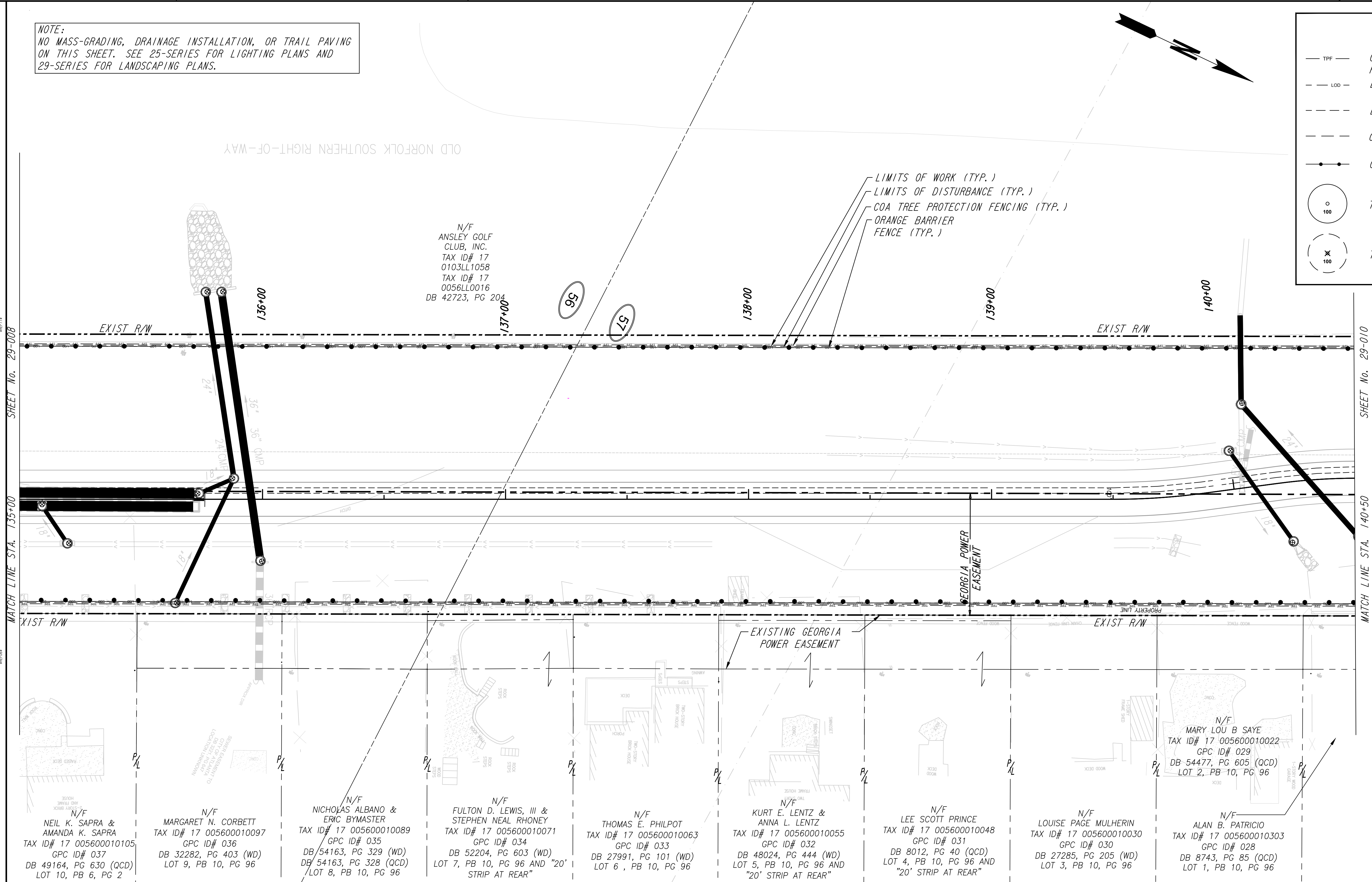
REVISION DATES	

TREE PROTECTION PLANS ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			29-008

NOTE:
NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND 29-SERIES FOR LANDSCAPING PLANS.

LEGEND

- TPF — COA TREE PROTECTION FENCING
- - - LOD - LIMITS OF DISTURBANCE
- - - - - LIMITS OF WORK
- - - - - COA SETBACKS
- ORANGE BARRIER FENCING
- 100 TREE TO BE SAVED
- ⊗ 100 TREE TO BE DESTROYED

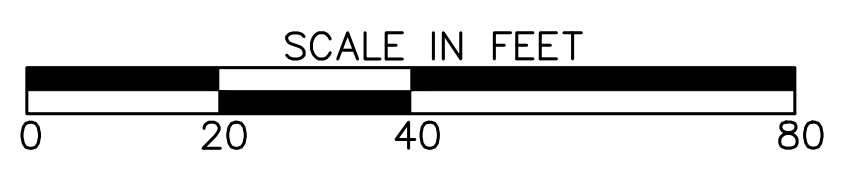


NOTE TO CONTRACTOR:
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PROPERTY AND EXISTING R/W LINE	— P/L —
REQUIRED R/W LINE	— F —
CONSTRUCTION LIMITS	— G — F
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

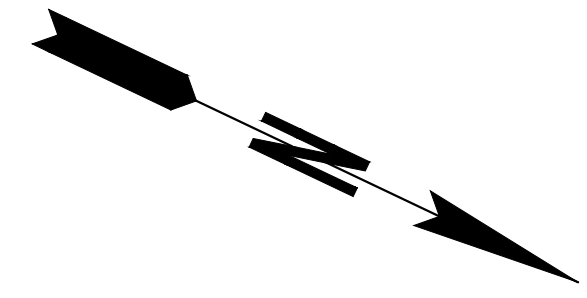
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

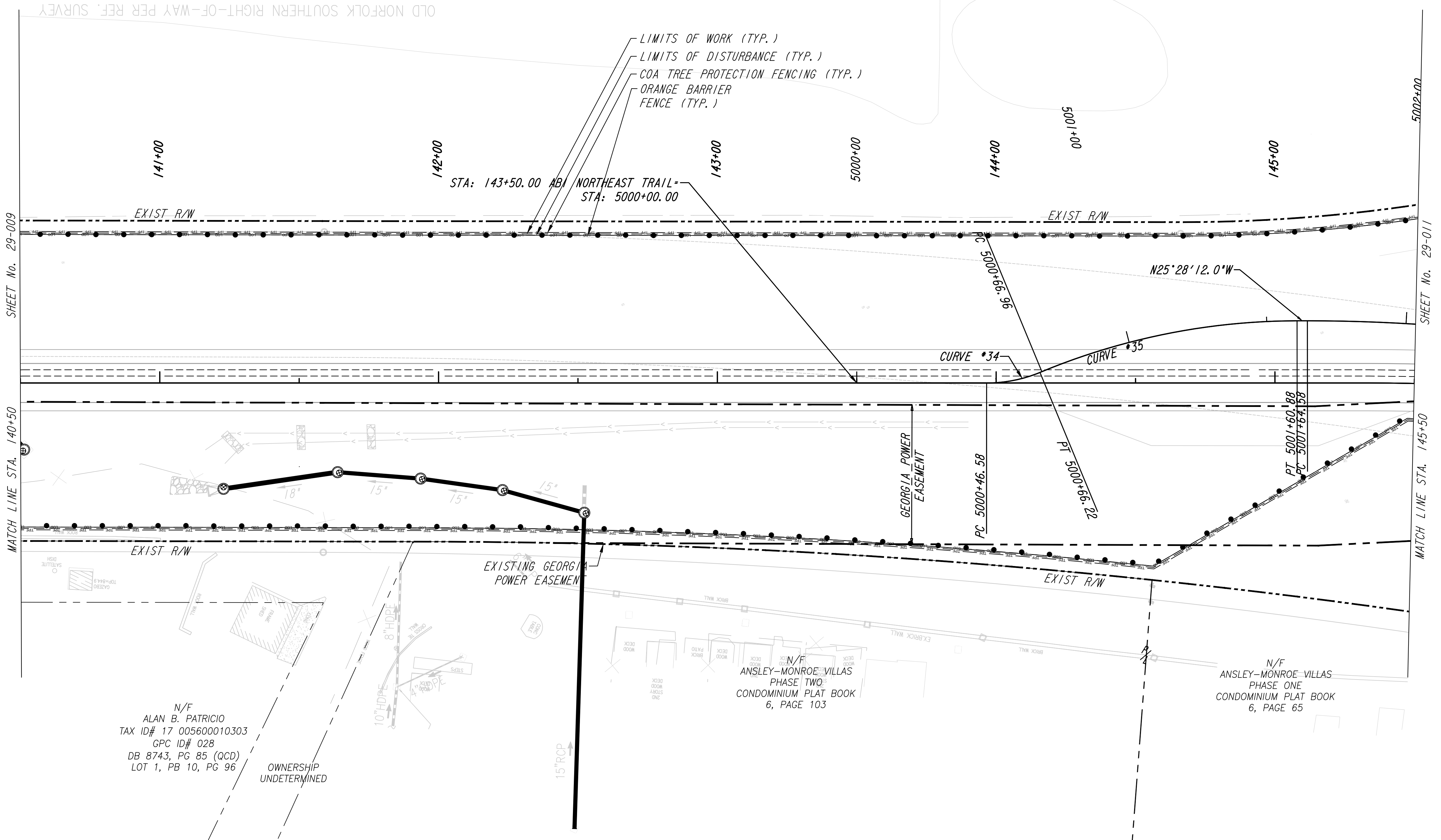


REVISION DATES		DRAWING No.	
CHECKED:	DATE:	29-009	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTE:
 NO MASS-GRADING, DRAINAGE INSTALLATION, OR TRAIL PAVING ON THIS SHEET. SEE 25-SERIES FOR LIGHTING PLANS AND 29-SERIES FOR LANDSCAPING PLANS.



N/F
 ANSLEY GOLF CLUB, INC.
 TAX ID# 17 0103LL1058
 TAX ID# 17 0056LL0016
 DB 42723, PG 204



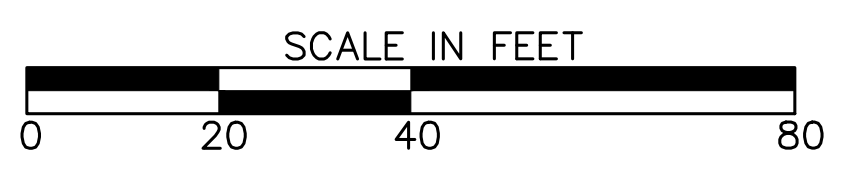
NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
	COA TREE PROTECTION FENCING
	LIMITS OF DISTURBANCE
	LIMITS OF WORK
	COA SETBACKS
	ORANGE BARRIER FENCING
	TREE TO BE SAVED
	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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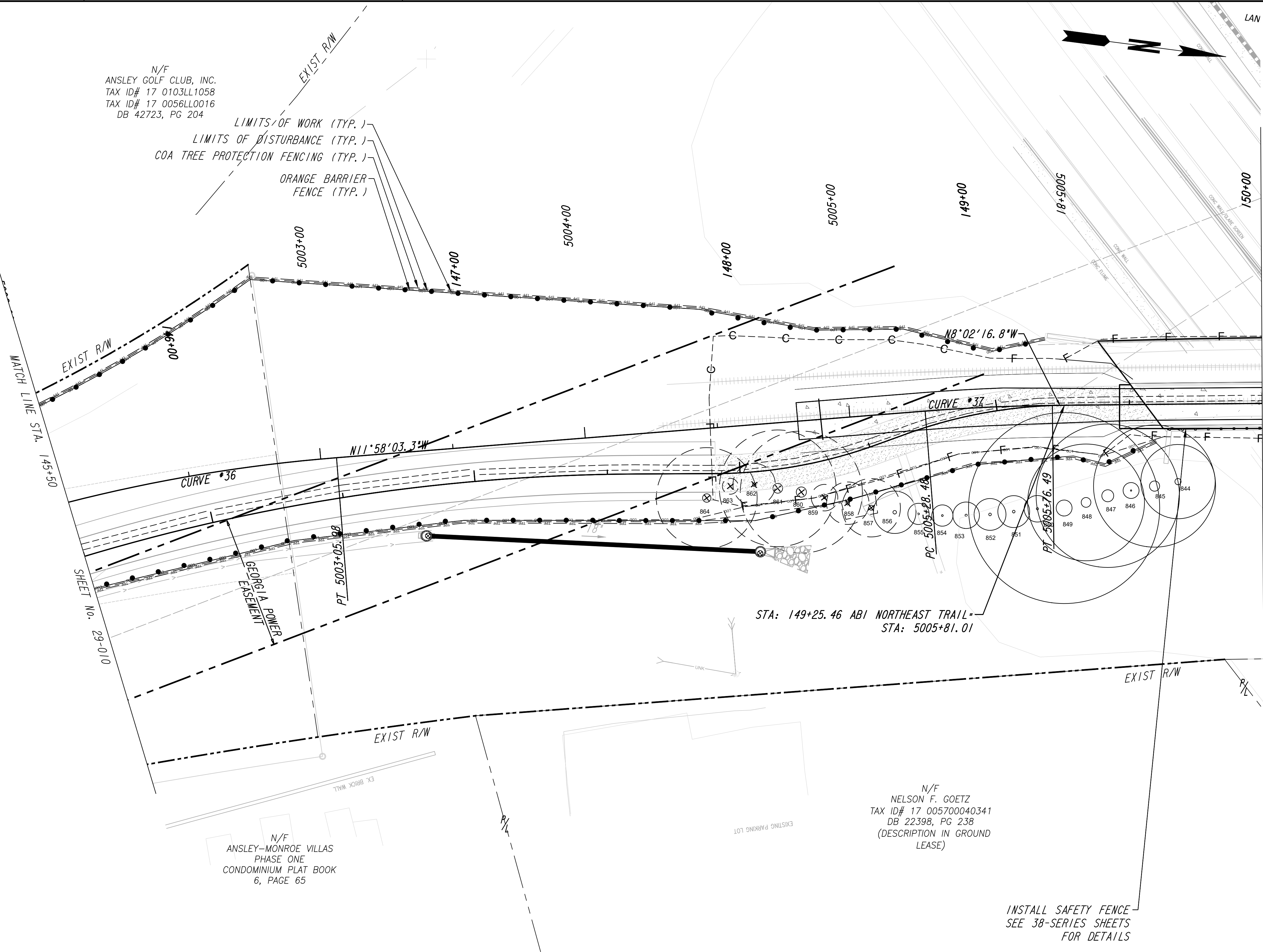
REVISION DATES	

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-010
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

N/F
ANSLEY GOLF CLUB, INC.
TAX ID# 17 0103LL1058
TAX ID# 17 0056LL0016
DB 42723, PG 204

LIMITS OF WORK (TYP.)
LIMITS OF DISTURBANCE (TYP.)
COA TREE PROTECTION FENCING (TYP.)
ORANGE BARRIER FENCE (TYP.)



STA: 149+25.46 ABI NORTHEAST TRAIL -
STA: 5005+81.01

N/F
NELSON F. GOETZ
TAX ID# 17 005700040341
DB 22398, PG 238
(DESCRIPTION IN GROUND LEASE)

N/F
ANSLEY-MONROE VILLAS
PHASE ONE
CONDOMINIUM PLAT BOOK
6, PAGE 65

NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY. HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND

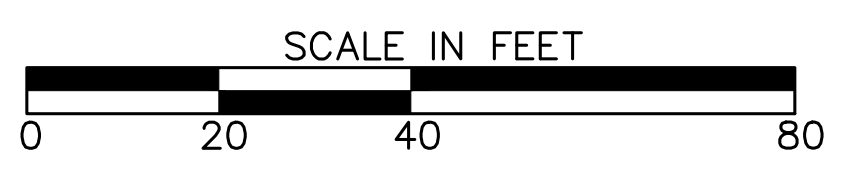
- TPF --- COA TREE PROTECTION FENCING
- LOD --- LIMITS OF DISTURBANCE
- L.O.W. --- LIMITS OF WORK
- COA --- COA SETBACKS
- OBF --- ORANGE BARRIER FENCING
- 100 TREE TO BE SAVED
- ⊗ 100 TREE TO BE DESTROYED

INSTALL SAFETY FENCE
SEE 38-SERIES SHEETS
FOR DETAILS

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▧
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▩

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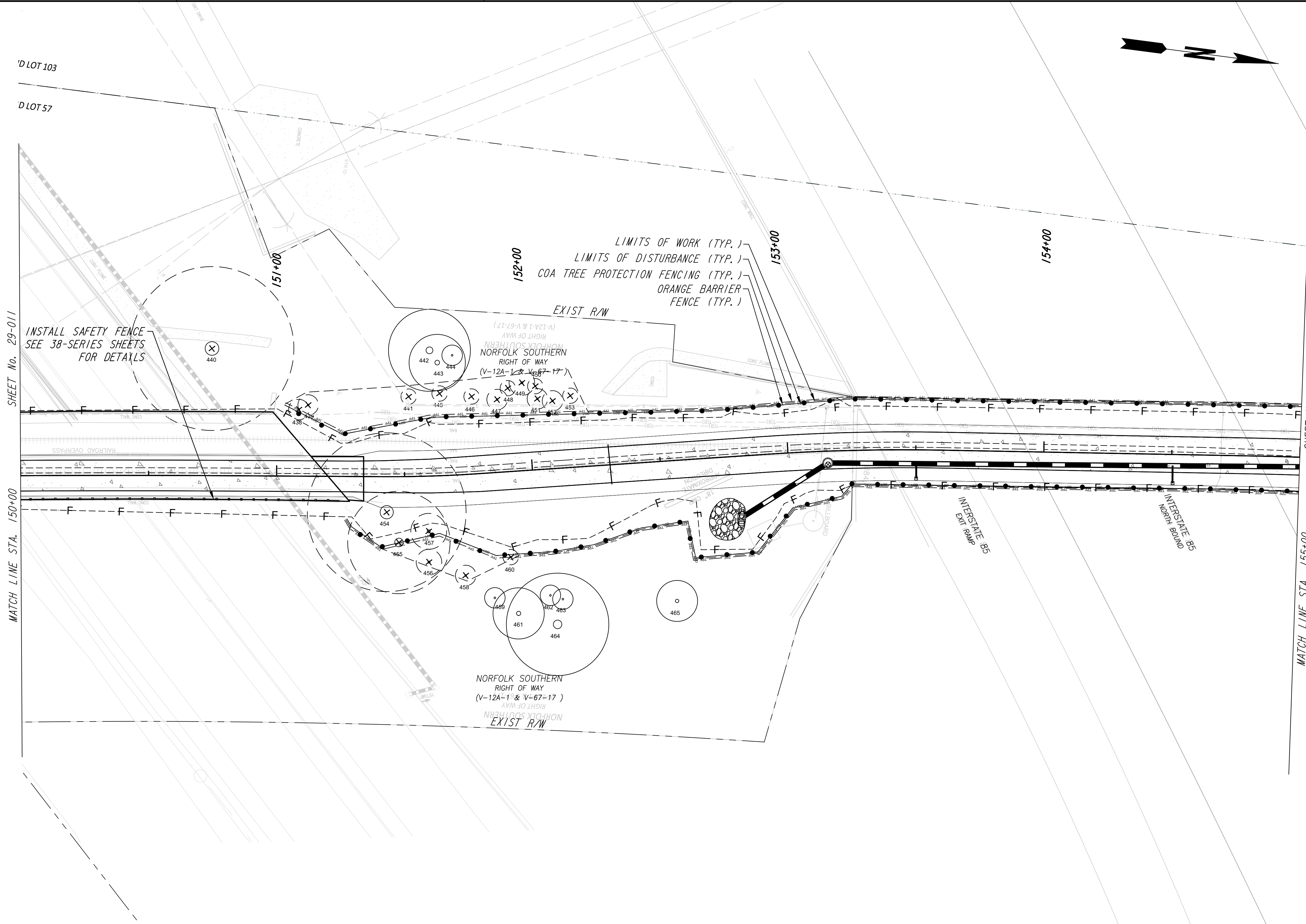
Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY. HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
--- TPF ---	COA TREE PROTECTION FENCING
--- LOD ---	LIMITS OF DISTURBANCE
---	LIMITS OF WORK
---	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

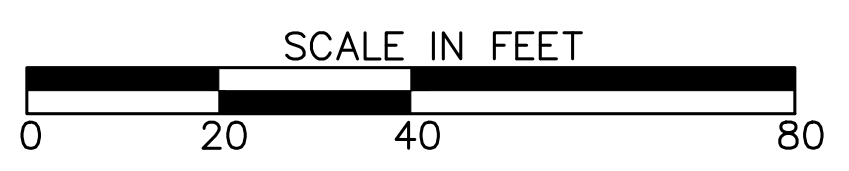
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▧
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▩

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Kimley»Horn

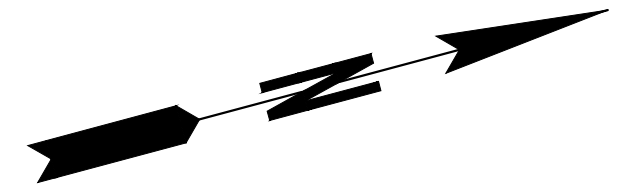
KIMLEY-HORN AND ASSOCIATES, INC.
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817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

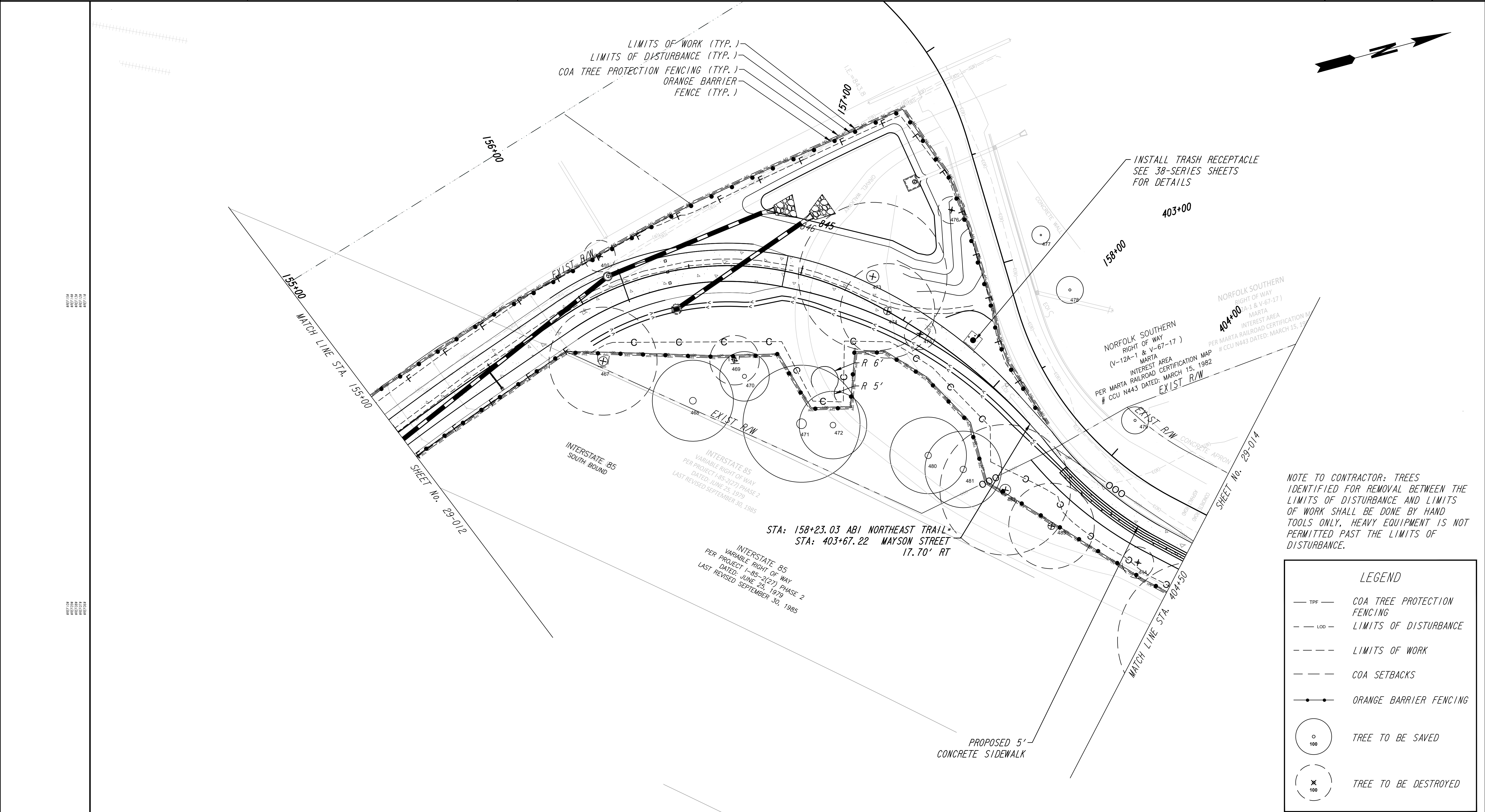
TREE PROTECTION PLANS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-012
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



LIMITS OF WORK (TYP.)
 LIMITS OF DISTURBANCE (TYP.)
 COA TREE PROTECTION FENCING (TYP.)
 ORANGE BARRIER FENCE (TYP.)

INSTALL TRASH RECEPTACLE
 SEE 38-SERIES SHEETS
 FOR DETAILS



NORFOLK SOUTHERN
 RIGHT OF WAY
 (V-12A-1 & V-67-17)
 MARTA
 INTEREST AREA
 PER MARTA RAILROAD CERTIFICATION MAP
 # CCU N443 DATED: MARCH 15, 1982
 EXIST. R/W

INTERSTATE 85
 VARIABLE RIGHT OF WAY
 PER PROJECT I-85-3(27) PHASE 2
 DATED: JUNE 25, 1979
 LAST REVISED: SEPTEMBER 30, 1985

STA: 158+23.03 ABI NORTHEAST TRAIL
 STA: 403+67.22 MAYSON STREET
 17.70' RT

INTERSTATE 85
 VARIABLE RIGHT OF WAY
 PER PROJECT I-85-2(27) PHASE 2
 DATED: JUNE 25, 1979
 LAST REVISED: SEPTEMBER 30, 1985

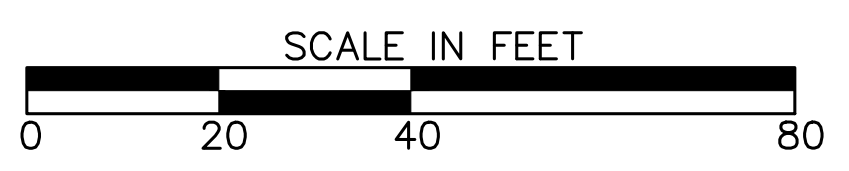
NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
--- TPF ---	COA TREE PROTECTION FENCING
--- LOD ---	LIMITS OF DISTURBANCE
---	LIMITS OF WORK
---	COA SETBACKS
---●---	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

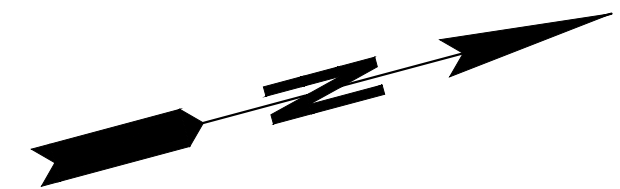
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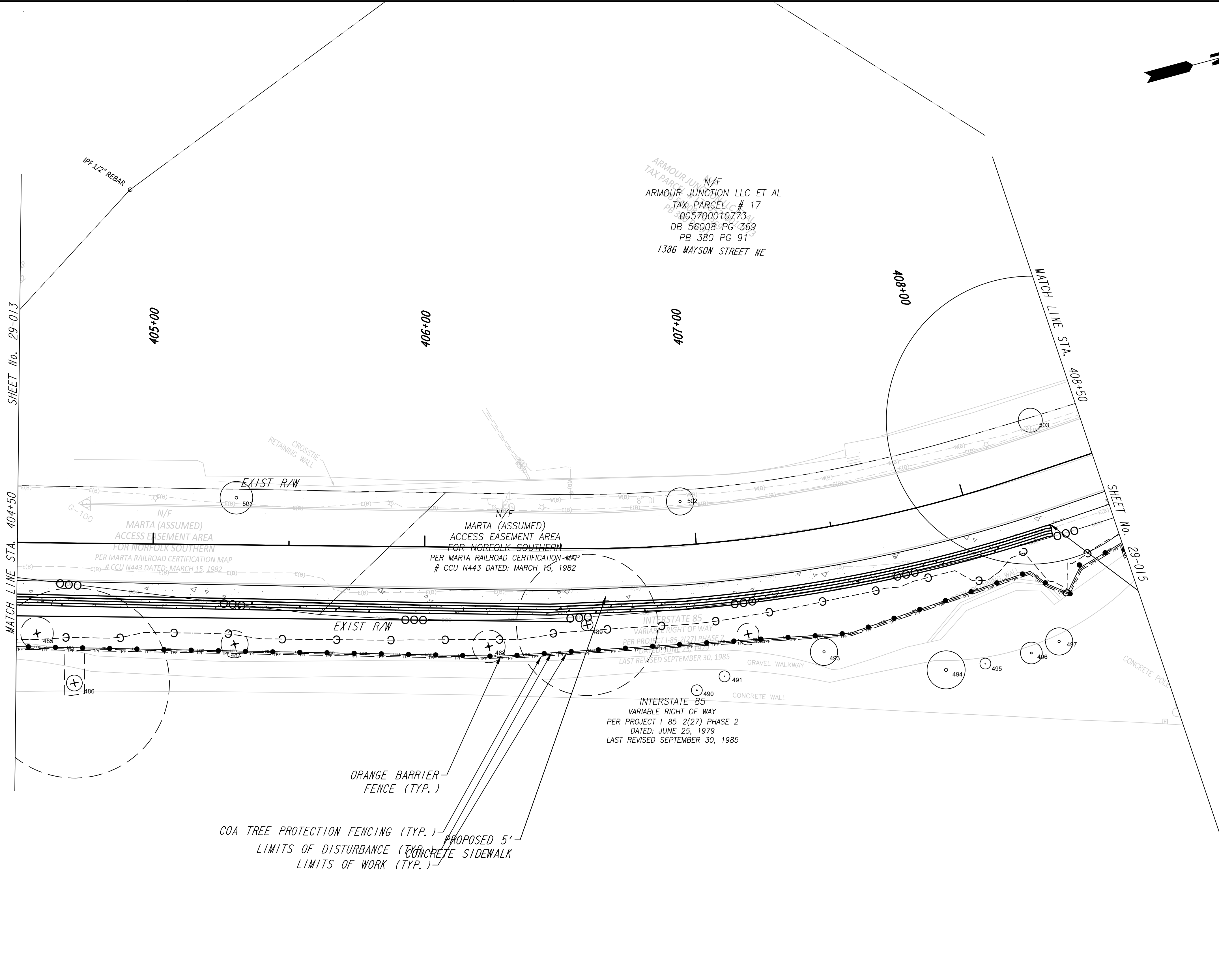


REVISION DATES	

TREE PROTECTION PLANS ATLANTA BELTLINE NORTHEAST TRAIL			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			29-013



ARMOUR JUNCTION N/F
 TAX PARCEL # 17
 005700010773
 DB 56008 PG 369
 PB 380 PG 91
 1386 MAYSON STREET NE



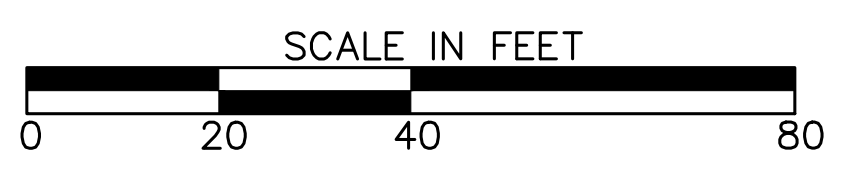
NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

LEGEND	
— TPF —	COA TREE PROTECTION FENCING
- - - - -	LIMITS OF DISTURBANCE
- - - - -	LIMITS OF WORK
- - - - -	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○	TREE TO BE SAVED
⊗	TREE TO BE DESTROYED

PROPERTY AND EXISTING R/W LINE	— R —
REQUIRED R/W LINE	— R —
CONSTRUCTION LIMITS	— G — F —
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Hatched Pattern]

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 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 29-014
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

STA: 501+85.54 PLASTERS AVENUE
STA: 409+82.10 MAYSON STREET

N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17
005700010815
DB 56008 PG 369

N/F
EPIC CXXX LLC
TAX PARCEL # 17
005700010872
DB 56008 PG 369
PB 380 PG 91

N/F
BURNS PARK REALTY LLC
TAX PARCEL # 17
005700010351
DB 35917, PG 612
PB 96 PG 46

N/F
CWS ARMOUR LLC ET AL
TAX PARCEL # 17
005700010351
DB 53711 PG 176

N/F
CWS ARMOUR LLC ET AL
TAX PARCEL # 17
005700010351
DB 53711 PG 176

500+00

501+00

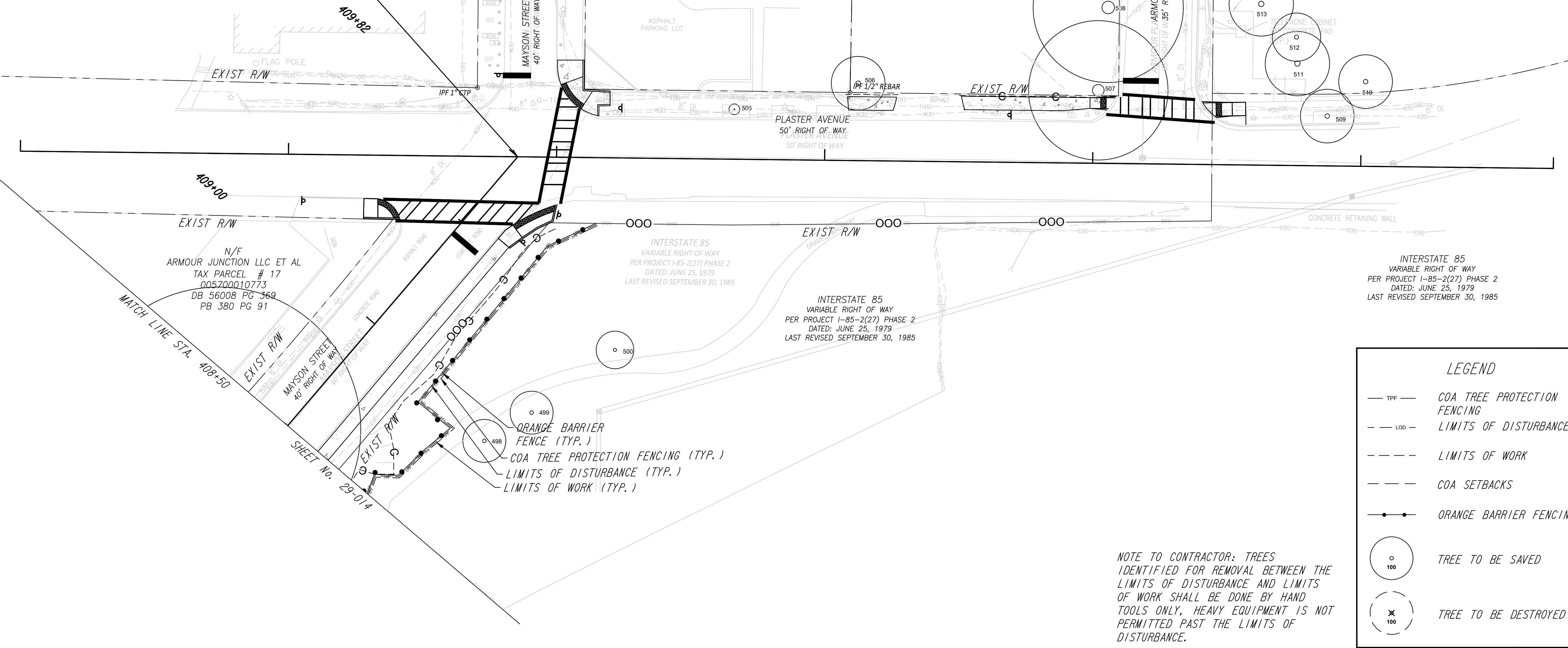
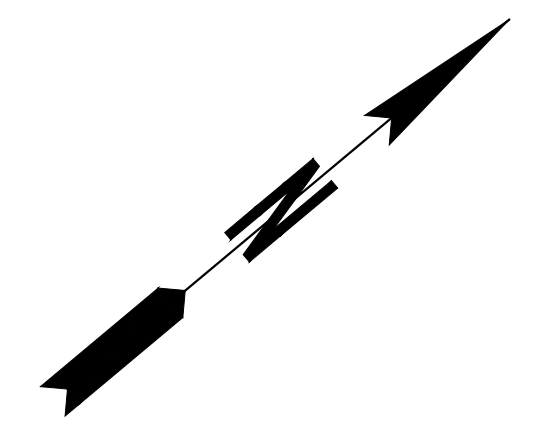
502+00

503+00

504+00

505+00

505+72



N/F
ARMOUR JUNCTION LLC ET AL
TAX PARCEL # 17
005700010773
DB 56008 PG 369
PB 380 PG 91

INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

INTERSTATE 85
VARIABLE RIGHT OF WAY
PER PROJECT I-85-2(27) PHASE 2
DATED: JUNE 25, 1979
LAST REVISED SEPTEMBER 30, 1985

MATCH LINE STA. 408+50

SHEET No. 29-014

- 499 ORANGE BARRIER FENCE (TYP.)
- 498 COA TREE PROTECTION FENCING (TYP.)
- 500 LIMITS OF DISTURBANCE (TYP.)
- 501 LIMITS OF WORK (TYP.)

LEGEND	
— TPF —	COA TREE PROTECTION FENCING
--- LOD ---	LIMITS OF DISTURBANCE
---	LIMITS OF WORK
---	COA SETBACKS
—●—●—	ORANGE BARRIER FENCING
○ 100	TREE TO BE SAVED
⊗ 100	TREE TO BE DESTROYED

NOTE TO CONTRACTOR: TREES IDENTIFIED FOR REMOVAL BETWEEN THE LIMITS OF DISTURBANCE AND LIMITS OF WORK SHALL BE DONE BY HAND TOOLS ONLY, HEAVY EQUIPMENT IS NOT PERMITTED PAST THE LIMITS OF DISTURBANCE.

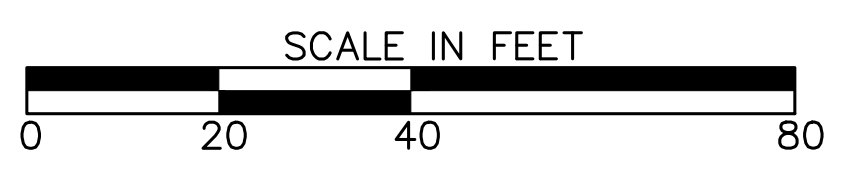
PROPERTY AND EXISTING R/W LINE	— R —
REQUIRED R/W LINE	— F —
CONSTRUCTION LIMITS	— G —
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	[Hatched Pattern]
TEMPORARY EASEMENT FOR CONST. OF SLOPES	[Diagonal Line Pattern]
TEMPORARY EASEMENT FOR CONST. OF DRIVES	[Cross-hatch Pattern]

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ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



REVISION DATES	

TREE PROTECTION PLANS		ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-015	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

GENERAL NOTES – CAST-IN-PLACE WALLS
WALL 100D

SPECIFICATIONS – GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL – PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL FOOTING AND KEY REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-9" MINIMUM INTO LARGER FOOTING.

FINISH – FINISH EXPOSED SURFACES OF THE WALL WITH GRANITE VENEER.

CONCRETE COVER – MAINTAIN 3 INCHES COVER ON ALL FOOTING AND KEY REINFORCING STEEL AND 2 INCHES COVER ON ALL STEM REINFORCING.

BACKFILL – PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACK FACE OF WALL.

STATIONS AND OFFSETS – STATIONS SHOWN ARE ALONG ϕ CONSTRUCTION. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

TEMPORARY SHORING – PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.

WALL JOINTS – EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL STEM AND FOOTING. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0" AND EXTEND THROUGH THE WALL STEM ONLY.

JOINTS IN WALL FORMS – SUPPORT JOINTS IN WALL FORMS WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.

FOOTING EXCAVATION – EXCAVATE FOR SPREAD FOOTINGS WITH CARE TO PREVENT UNDERCUTTING. PLACE FOOTINGS ON UNDISTURBED SOIL.

KEY EXCAVATION – EXCAVATE FOR KEY AS NEAR PLAN DETAILS AS PRACTICAL. POUR KEY AGAINST UNDISTURBED SOIL WITHOUT FORMS.

WELDING – ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

INCIDENTAL ITEMS – INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF JOINT FILLERS, WATERPROOFING AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA – CIP WALLS

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002

CONCRETE ----- CLASS A, $f'_c = 3,000$ PSI

REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI

DESIGN SOIL PRESSURE ----- 2,000 LBS/SQ. FT.

COHESION ----- 0 PSF

ANGLE OF INTERNAL FRICTION ----- 30°

UNIT WEIGHT ----- 120 PCF

COEFFICIENT OF SLIDING FRICTION ----- 0.40

GENERAL NOTES – MSE RETAINING WALLS
WALLS 101B, 101C

SPECIFICATIONS – GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL – PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

FINISH – NO ARCHITECTURAL FINISH IS REQUIRED, UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.

FINISH – EXPOSED SURFACE OF THE WALL SHALL RECEIVE A GRANITE VENEER.

CONCRETE COVER – MAINTAIN 2 INCHES COVER MINIMUM ON ALL REINFORCING STEEL.

STATIONS AND OFFSETS – STATIONS SHOWN ARE ALONG CL CONSTRUCTION. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

STAGE CONSTRUCTION – THE WALL MAY BE CONSTRUCTED IN STAGES TO IMPROVE THE UNDERLYING SOIL BEARING CAPACITY. CONSTRUCT WALL TO A HEIGHT RESULTING IN A SOIL BEARING PRESSURE OF 200 POUNDS PER SQUARE FOOT. A WAITING PERIOD OF 30 DAYS SHALL BE REQUIRED BETWEEN EACH STAGE. AN ADDITIONAL WAITING PERIOD OF 30 DAYS SHALL BE OBSERVED AFTER THE FINAL STAGE OF BACKFILL PLACEMENT IS COMPLETED AND PRIOR TO THE CONSTRUCTION OF ANY COPING, BARRIER, PAVEMENT, OR BRIDGE SUBSTRUCTURE ABOVE THE WALL.

TEMPORARY SHORING – PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.

JOINTS – PROVIDE ONE INCH EXPANSION JOINT IN COPING OR BARRIER AT EVERY FOURTH PANEL.

WELDING – ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

WALL PLANS – THE RETAINING WALL IS CONSIDERED A CONTRACTOR DESIGN. THESE WALL PLANS ARE CONCEPTUAL AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT NUMBER OF SOIL REINFORCING STRIPS, THEIR LOCATIONS AND LENGTHS SHALL BE PROVIDED BY THE CONTRACTOR FOR THE WALL SYSTEM BID. THE PRESENCE OF THESE CONCEPTUAL PLANS IN THE CONTRACT DOCUMENTS IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING A WALL SYSTEM WHICH PROVIDES STRUCTURAL ADEQUACY, IN ACCORDANCE WITH SECTION 627 OF THE GEORGIA DOT SPECIFICATIONS, AT THE BID PRICE.

WALL DESIGN CALCULATIONS – PROVIDE WALL DESIGN CALCULATIONS FOR EACH WALL DESIGN SECTION. CALCULATIONS SHALL INCLUDE THE VERIFICATION OF EXTERNAL STABILITY AND GLOBAL STABILITY, AS WELL AS THE DESIGN FOR INTERNAL STABILITY.

INCIDENTAL ITEMS – INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF JOINT FILLERS, NEOPRENE PADS, WATERPROOFING AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA – MSE WALLS

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002

DESIGN SOIL PRESSURE ----- 2,000 LBS/SF

COHESION ----- 0 PSF

ANGLE OF INTERNAL FRICTION ----- 30°

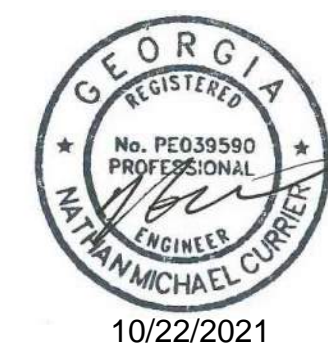
UNIT WEIGHT ----- 120 PCF

COEFFICIENT OF SLIDING FRICTION ----- 0.40

GEORGIA STANDARDS

BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

DITCH BACK OF RETAINING WALL ----- GA. CONST. DTL. D-49 (2-11)



10/22/2021

DATE	
REVISIONS	
BY	

DRAWING NO. 32-0001
WALL SHEET 1 OF 18

Kimley»Horn

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817 W. PEACHTREE STREET, NW
THE BILTMORE, SUITE 601
ATLANTA, GEORGIA 30308
PHONE (404) 419-8700

ATLANTA BELTLINE

GENERAL NOTES (1 OF 2)

ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

SCALE: NO SCALE '	OCTOBER 2021
DESIGNED ASG DRAWN BMR	CHECKED NMC DESIGN GROUP
	REVIEWED APPROVED

DATE: Oct 21, 2021 TIME: 2:35pm

USER: kelleysglynn

GENERAL NOTES – PERMANENTLY ANCHORED WALLS
WALLS 100B, 101D, 113A/B, 114A/B, 404

SPECIFICATIONS – GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL – PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

STATIONS AND OFFSETS – STATIONS SHOWN ARE ALONG $\text{\textcircled{C}}$ CONSTRUCTION. OFFSETS SHOWN ARE MEASURED TO THE FRONT FACE OF WALL.

CHAMFER – CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ INCH UNLESS OTHERWISE NOTED.

JOINTS IN WALL FORMS – JOINTS IN WALL FORMS SHALL BE SUPPORTED WITH BACKING STRIPS TO PROVIDE A FLUSH SURFACE IN THE FINISHED WALL FACE.

FINISH – EXPOSED SURFACE OF THE WALL SHALL RECEIVE A GRANITE VENEER, ALL WALLS UNLESS OTHERWISE NOTED.

FINISH (WALL 404 ONLY) – EXPOSED SURFACE OF WALL SHALL RECEIVE A TYPE III FINISH.

GRAFFITI COATING (WALL 404 ONLY) – APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.

RUSTICATION GROOVES (WALL 404 ONLY) – SPACE GROOVES AT 8'± SPACINGS BETWEEN CONTRACTION JOINTS AND EXPANSION JOINTS.

SOLDIER PILES – SOLDIER PILES ARE REQUIRED WITH TIE BACK WALLS.

CONCRETE FACING – WALL FACING IS 12 INCH THICK CAST IN PLACE REINFORCED CONCRETE. PNEUMATICALLY APPLIED CONCRETE (SHOTCRETE) WILL NOT BE ALLOWED AS A PERMANENT WALL FACING.

WATERSTOPS – ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL CONTAIN 6" PLAIN WATERSTOPS. ALL VERTICAL EXPANSION JOINTS SHALL CONTAIN A 6" BULB TYPE WATERSTOP.

GEOCOMPOSITE WALL DRAIN – USE A GEOCOMPOSITE WALL DRAIN, SELECTED FROM THE GEORGIA DOT QUALIFIED PRODUCTS LIST, BEHIND THE WALL FACING AT WEEP HOLE LOCATIONS. SPACE WEEP HOLES AT 8' MAXIMUM SPACINGS.

CONCRETE COVER – MAINTAIN 2 INCHES COVER ON ALL REINFORCING STEEL.

WELDING – ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

WALL PLANS – THE RETAINING WALL IS CONSIDERED A CONTRACTOR DESIGN. THESE WALL PLANS ARE CONCEPTUAL AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT NUMBER OF ANCHORS, THEIR LOCATIONS AND DESIGN LOADS SHALL BE PROVIDED BY THE CONTRACTOR FOR THE WALL SYSTEM BID. THE PRESENCE OF THESE CONCEPTUAL PLANS IN THE CONTRACT DOCUMENTS IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING A WALL SYSTEM WHICH PROVIDES STRUCTURAL ADEQUACY, INCLUDING ANCHOR TESTING, IN ACCORDANCE WITH SECTION 617 OF THE GEORGIA DOT SPECIFICATIONS, AT THE BID PRICE.

INCIDENTAL ITEMS – INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA – PERMANENTLY ANCHORED WALLS

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 CONCRETE ----- CLASS A, $f'_c = 3,000$ PSI
 COHESION ----- 0 PSF
 ANGLE OF INTERNAL FRICTION ----- 32°
 UNIT WEIGHT ----- 115 PCF

SUMMARY OF QUANTITIES – WALL NO. 100B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	18	LF	42" METAL SAFETY RAIL
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 100B
999-9000	125	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 100D

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	95	CY	CLASS A CONCRETE, RETAIN WALL
501-2000	377	LB	STR STEEL
511-1000	6187	LB	BAR REINF STEEL
999-9000	375	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 101B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3800	8	CY	CLASS A CONCRETE, INCL REINF STEEL
501-2000	250	LB	STR STEEL
515-2105	103	LF	42" METAL SAFETY RAIL
627-1000	565	SF	MSE WALL FACE, 0-10 FT HT, WALL NO – 101B
999-9000	670	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 101C

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3800	8	CY	CLASS A CONCRETE, INCL REINF STEEL
501-2000	235	LB	STR STEEL
515-2105	105	LF	42" METAL SAFETY RAIL
627-1000	396	SF	MSE WALL FACE, 0-10 FT HT, WALL NO – 101C
627-1010	472	SF	MSE WALL FACE, 10-20 FT HT, WALL NO – 101C
999-9000	973	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 101D

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
515-2105	9	LF	42" METAL SAFETY RAIL
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 101D
999-9000	60	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 113A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.3	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 113A
999-9000	181	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 113B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.3	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 113B
999-9000	178	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 114A

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.9	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 114A
999-9000	580	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 114B

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
502-1200	0.9	MBM	BRIDGE TIMBER, TREATED
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 114B
999-9000	570	SF	GRANITE FACING

SUMMARY OF QUANTITIES – WALL NO. 404

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
441-0204	141	SY	PLAIN CONC. DITCH PAVING, 4 IN
617-0510	LUMP		PERMANENTLY ANCHORED WALL, NO – 404



DATE	REVISIONS

DRAWING NO. 32-0002	BY	
WALL SHEET 2 OF 18		

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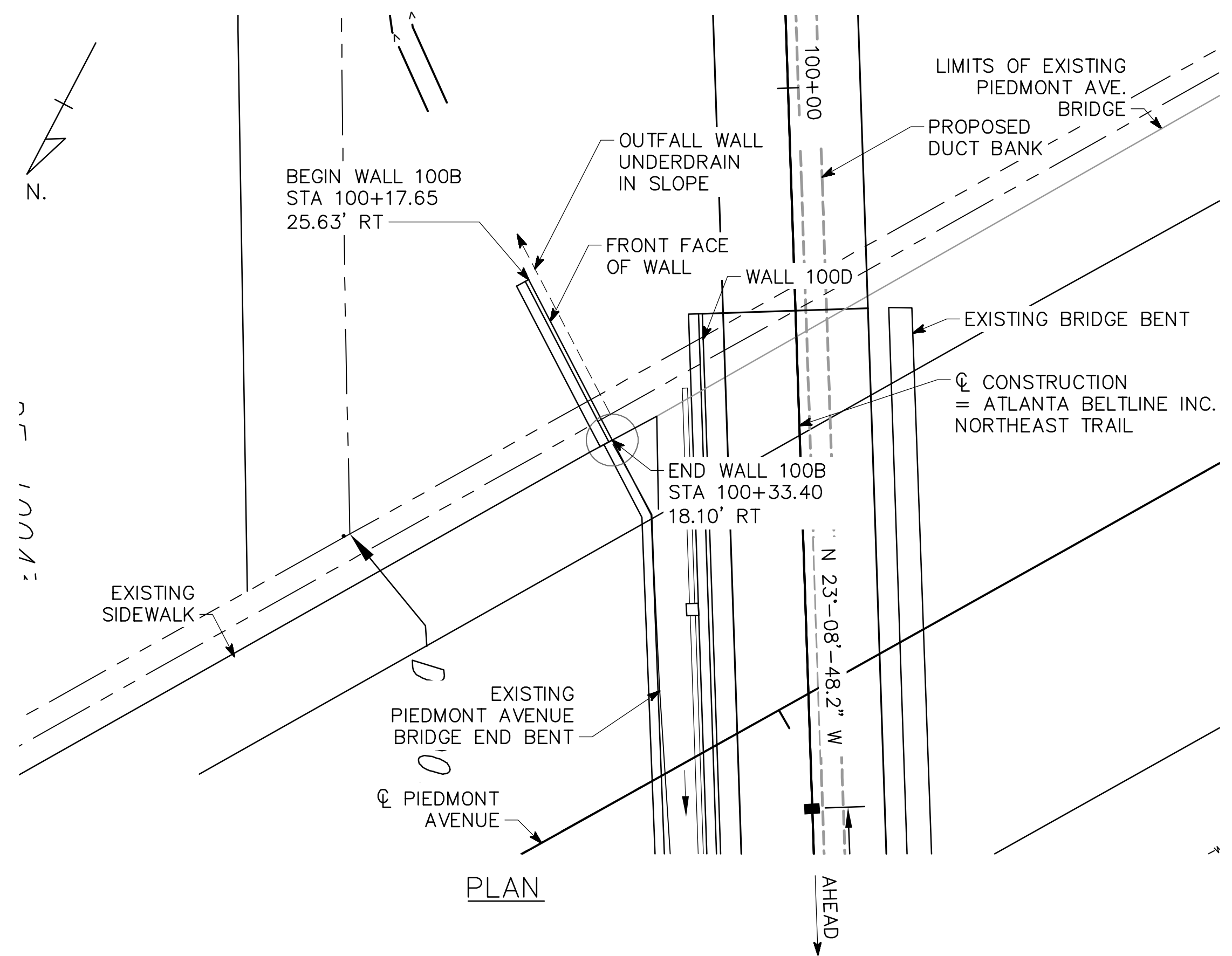
ATLANTA BELTLINE

GENERAL NOTES (2 OF 2)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

SCALE: NO SCALE	OCTOBER 2021
DESIGNED: ASG	CHECKED: NMC
DRAWN: BMR	DESIGN GROUP

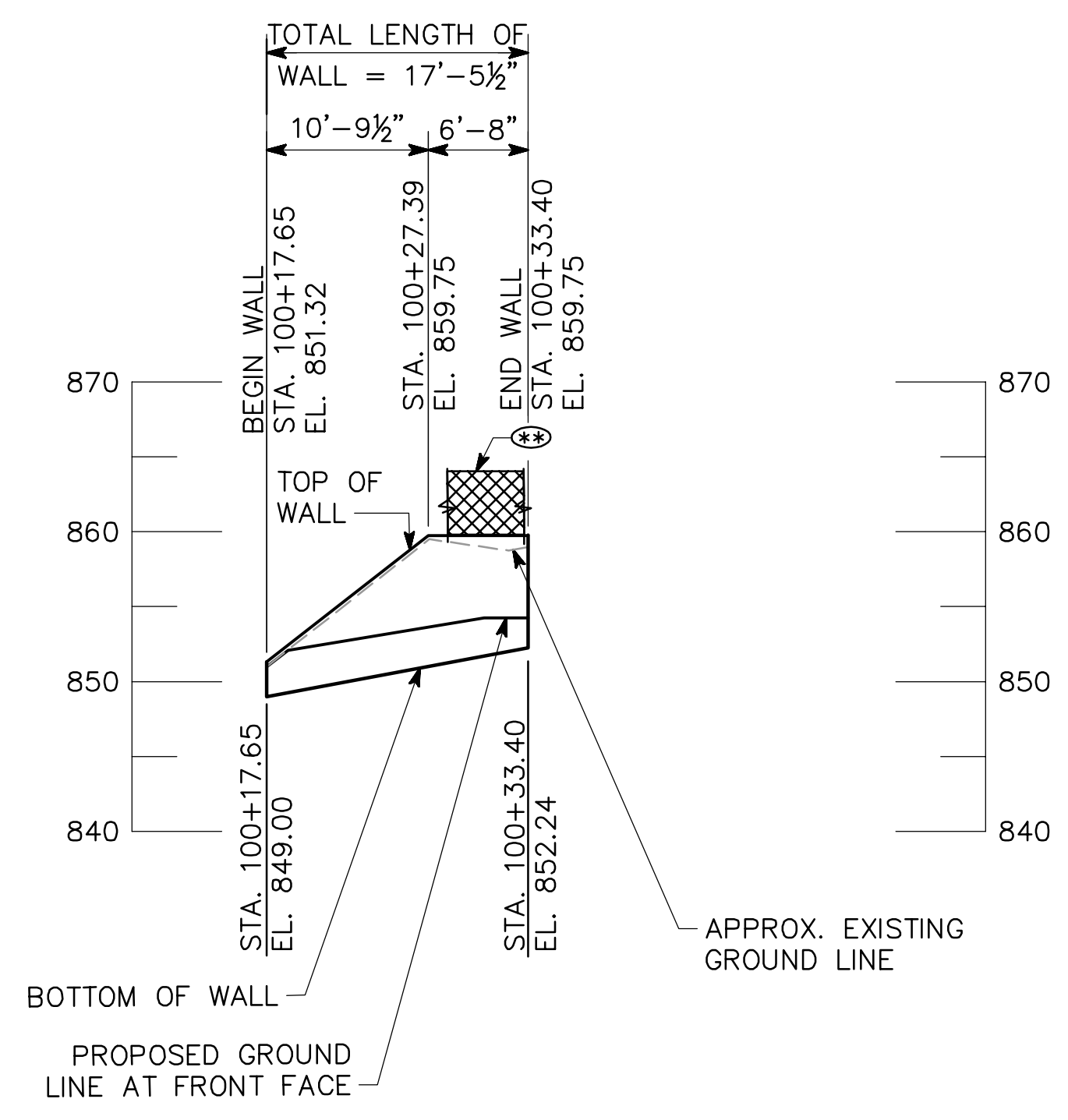
DATE: Oct 27, 2021 TIME: 8:16am

USER: kelley.glynn



EVCS: 100+10.00	BVCS: 101+35.00
EVCE: 846.84	BVCE: 846.35
-0.3929%	

VERTICAL CURVE DATA



NOTES

1. STATIONS ARE MEASURED ALONG CL CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
 3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
 4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
 5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
 6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
 7. (SR) INDICATES 42" METAL SAFETY RAIL.
- ARC - ARC DIMENSION



REVISIONS	DATE

WALL NO. 100B

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ATLANTA BELTLINE

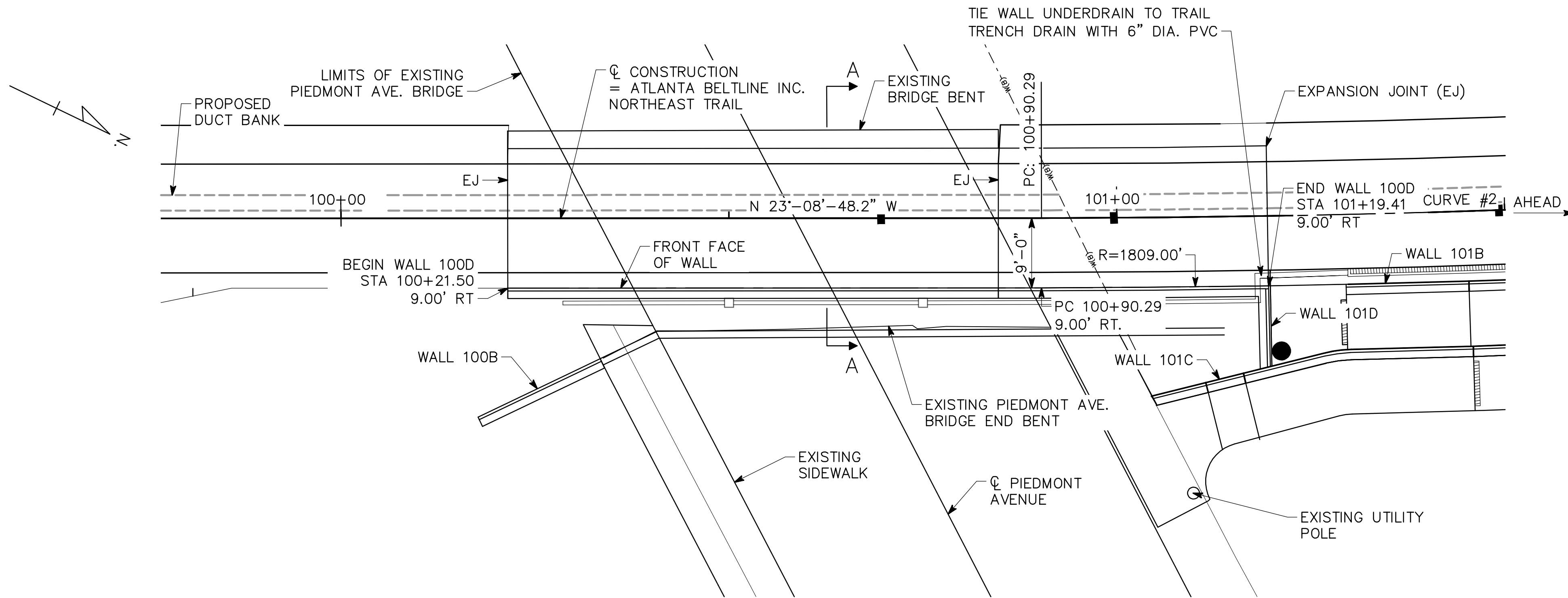
PLAN AND ELEVATION
WALL NO. 100B (PERMANENTLY ANCHORED)
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

DESIGNED: ASG	CHECKED: NMC	REVIEWED:
DRAWN: ASG	DESIGN GROUP:	APPROVED:

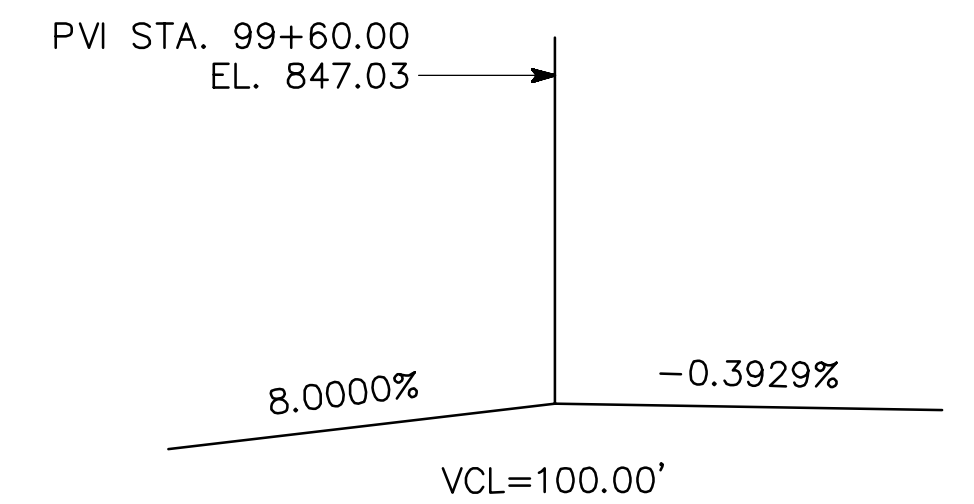
DRAWING NO. 32-0003
WALL SHEET 3 OF 18

DATE: Oct 22, 2021 TIME: 12:49pm USER: kelly.glynn



CURVE #2 (C CONSTRUCTION)
 PI STA. = 101+63.25
 N = 1380705.70
 E = 2234522.98
 DELTA = 4'-38'-33"
 D = 3'-10'-59.16"
 T = 72.97 FT
 L = 145.85 FT
 R = 1800.00 FT
 E = 1.48 FT

HORIZONTAL CURVE DATA

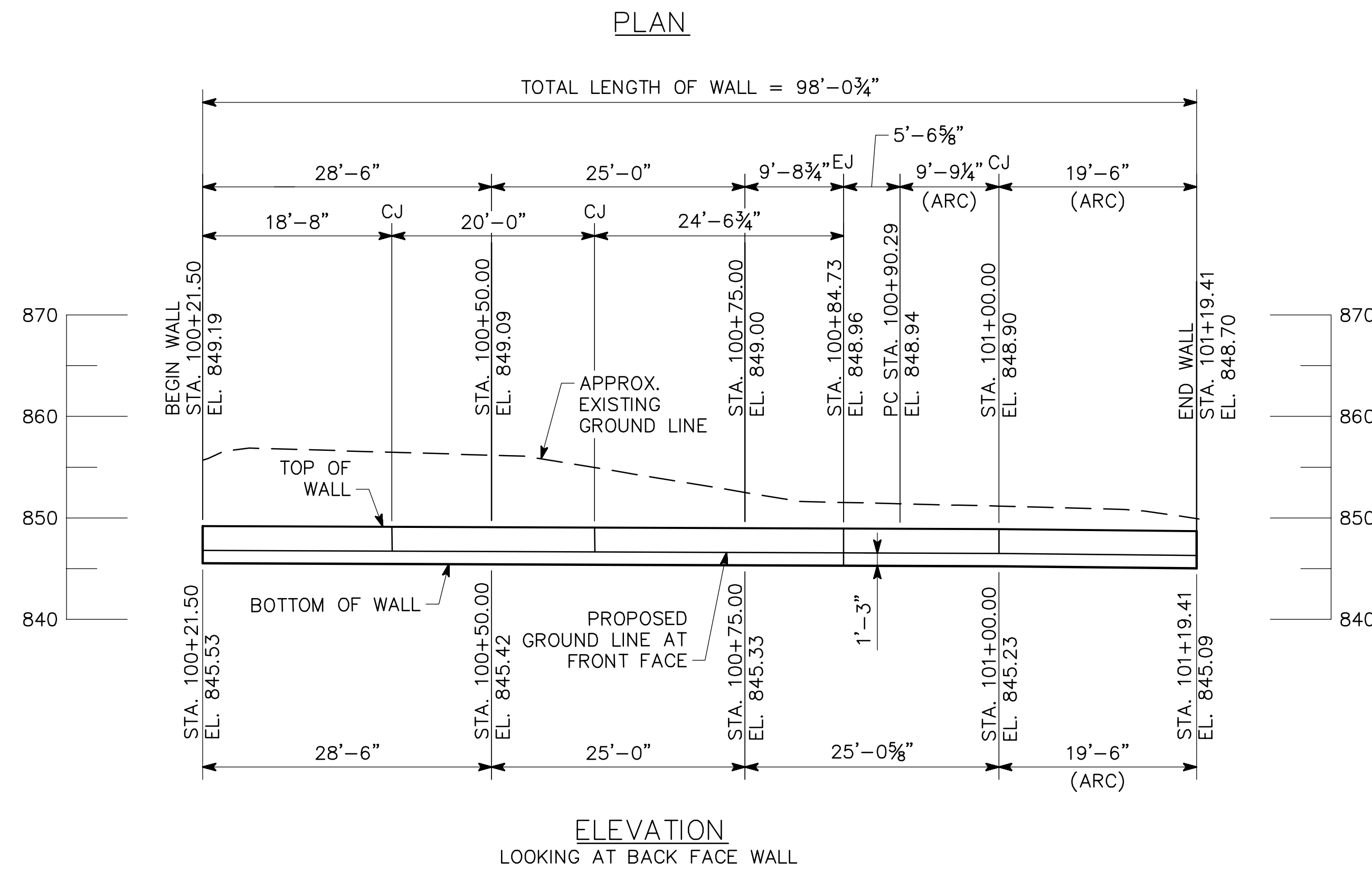


VERTICAL CURVE DATA

NOTES

1. STATIONS ARE MEASURED ALONG C CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
4. FOR TYPICAL SECTIONS, SEE "WALL DETAILS".
5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
7. EJ INDICATES EXPANSION JOINT IN WALL, VENEER, AND SLAB.
8. CJ INDICATES CONTRACTION JOINT IN WALL AND VENEER.
9. JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.

ARC - ARC DIMENSION



WALL NO. 100D

Kimley»Horn

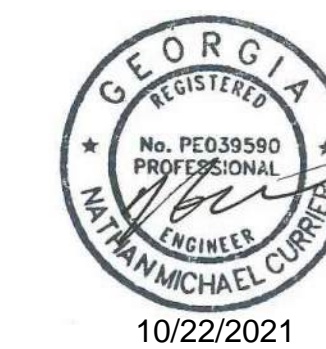
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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 100D (CIP CANTILEVER)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

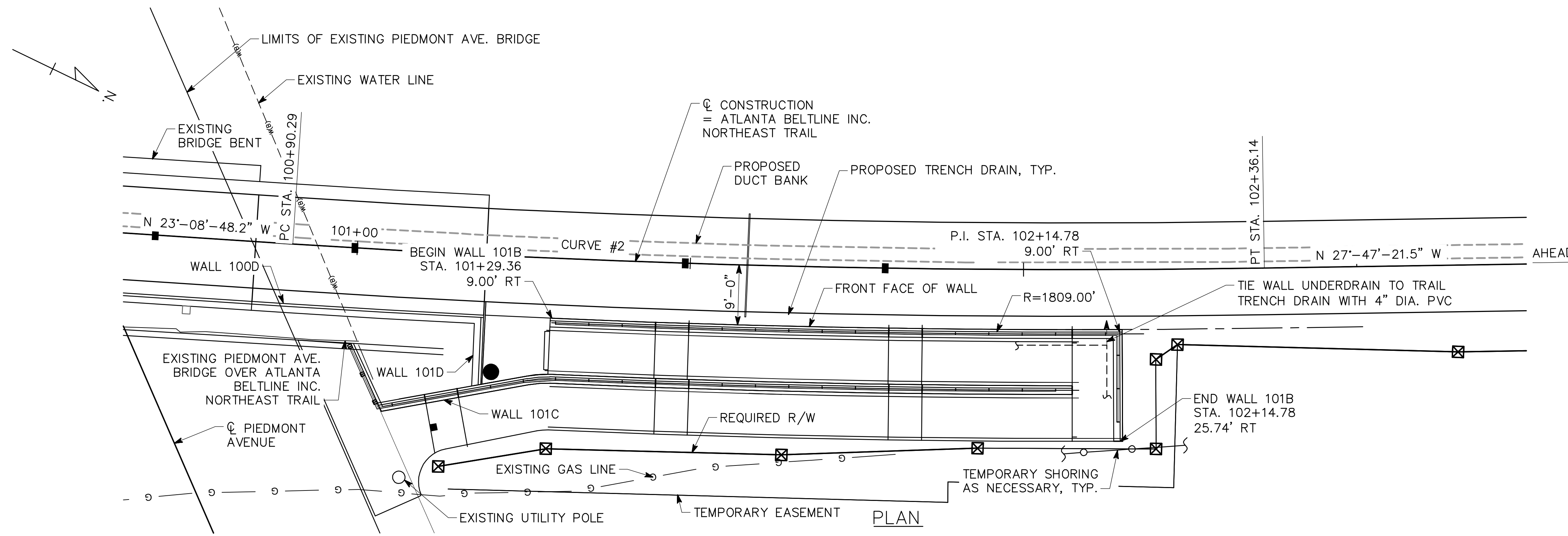
SCALE: 1" = 10'-0" OCTOBER 2021

DESIGNED ASG CHECKED NMC REVIEWED
 DRAWN ASG DESIGN GROUP APPROVED



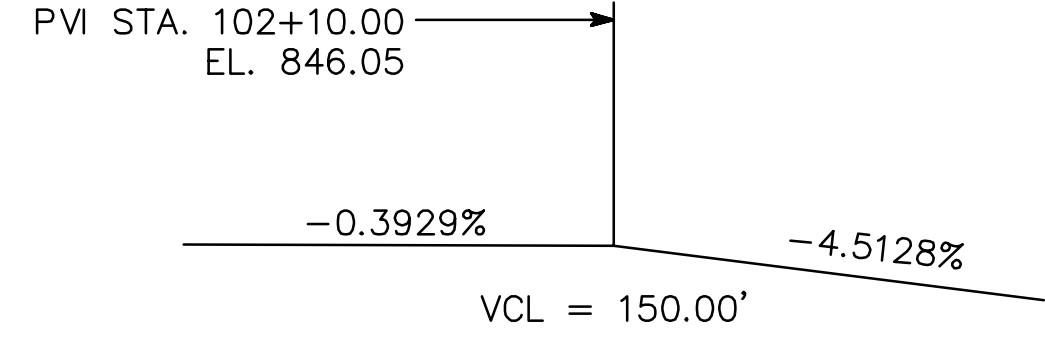
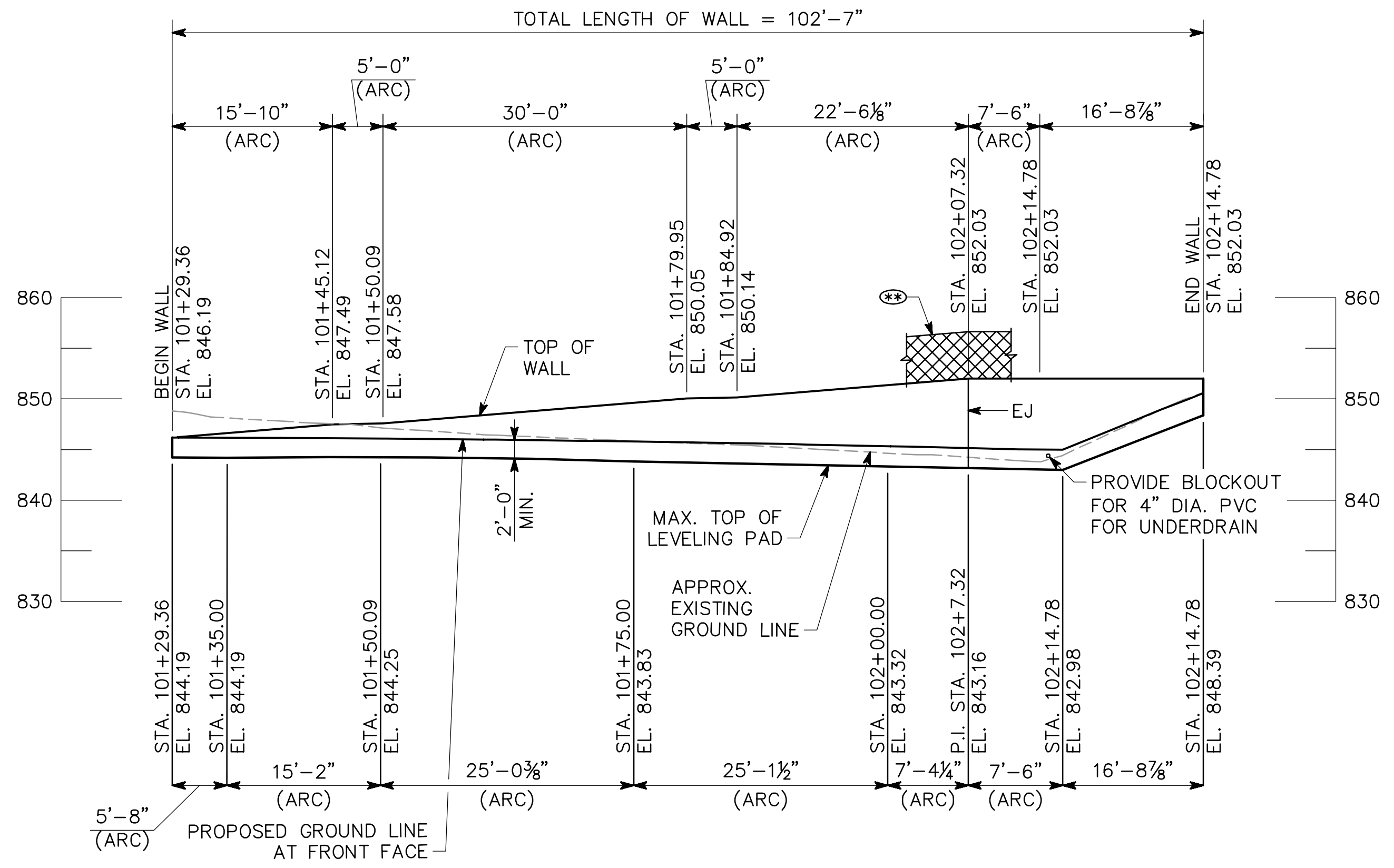
DATE	REVISIONS

DRAWING NO.
32-0004
 WALL SHEET
4 OF 18



CURVE # 2 (C CONSTRUCTION)
 PI STA. = 101+63.25
 N = 1380705.70
 E = 2234522.98
 DELTA = 4'-38'-33"
 D = 3'-10'-59.16"
 T = 72.97 FT
 L = 145.85 FT
 R = 1800.00 FT
 E = 1.48 FT

HORIZONTAL CURVE DATA



VERTICAL CURVE DATA

- NOTES**
- STATIONS ARE MEASURED ALONG C CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
 - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.
 - FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
 - FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
 - ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
 - GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
 - EJ INDICATES EXPANSION JOINT IN WALL AND VENEER.
 - JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.
 - ⊗ INDICATES 42" METAL SAFETY RAIL.
- ARC - ARC DIMENSION

ELEVATION
 LOOKING AT BACK FACE WALL

WALL NO. 101B

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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 101B (MSE)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021



10/22/2021

DATE	REVISIONS

DRAWING NO. 32-0005
WALL SHEET 5 OF 18

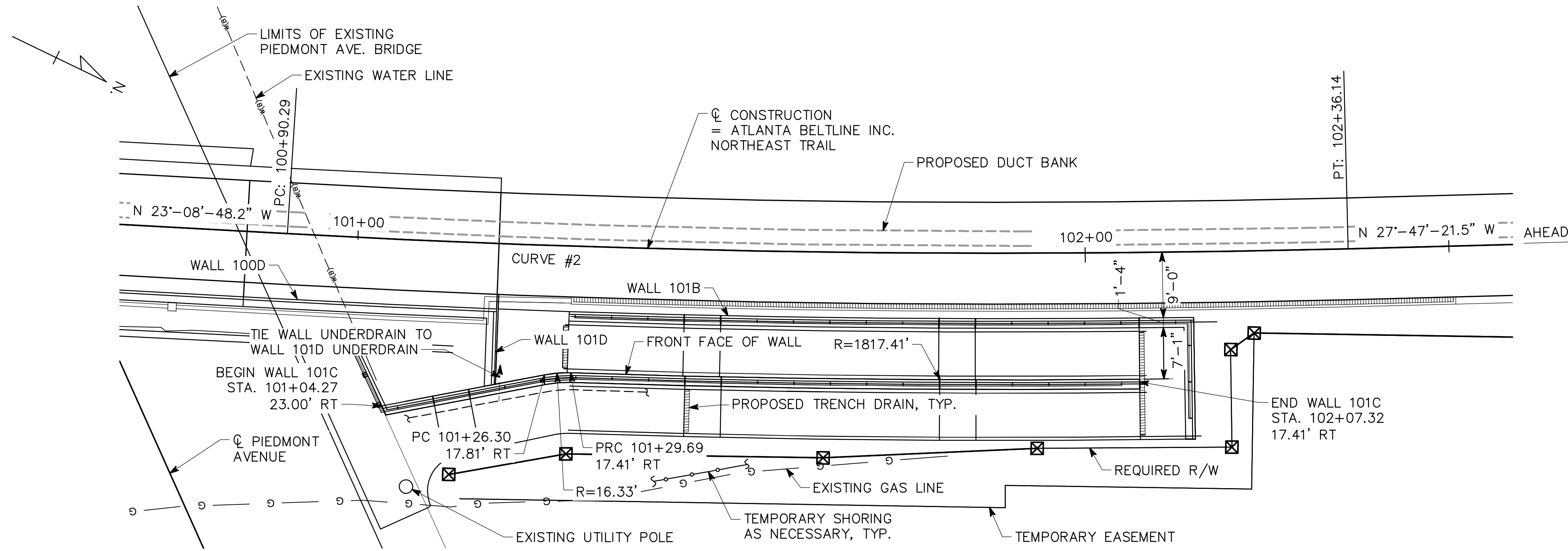
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DRAWN DDL/JIK	DESIGN GROUP	APPROVED

DATE: Oct 22, 2021 TIME: 12:27am

USER: kelly.glynn

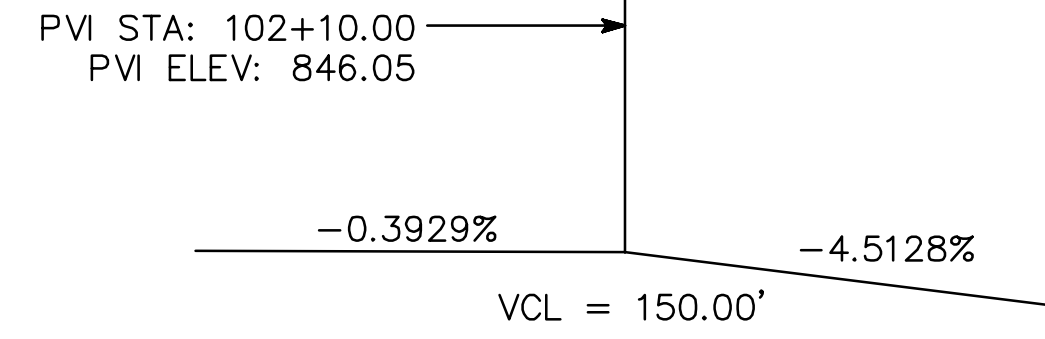
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USER: kelleysglynn

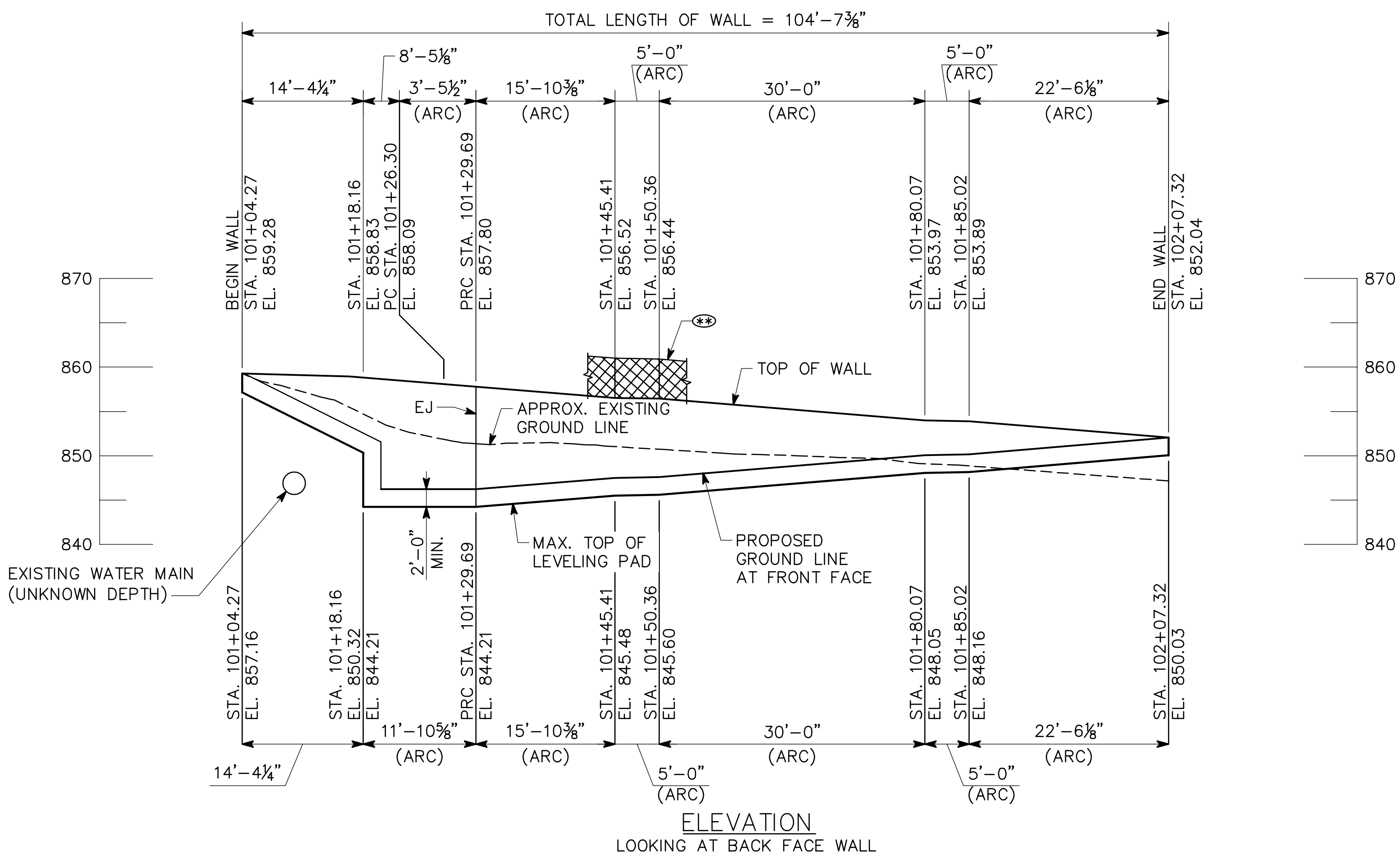


CURVE #2 (☉ CONSTRUCTION)
PI STA. = 101+63.25
N = 1380705.70
E = 2234522.98
DELTA = 4°-38'-33"
D = 3'-10"-59.16"
T = 72.97 FT
L = 145.85 FT
R = 1800.00 FT
E = 1.48 FT

HORIZONTAL CURVE DATA



VERTICAL CURVE DATA



NOTES

- STATIONS ARE MEASURED ALONG ☉ CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
 - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.
 - FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
 - FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
 - ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
 - GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
 - EJ INDICATES EXPANSION JOINT IN WALL AND VENEER.
 - JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.
 - ☉ INDICATES 42" METAL SAFETY RAIL.
- ARC - ARC DIMENSION



DATE	REVISIONS

WALL NO. 101C

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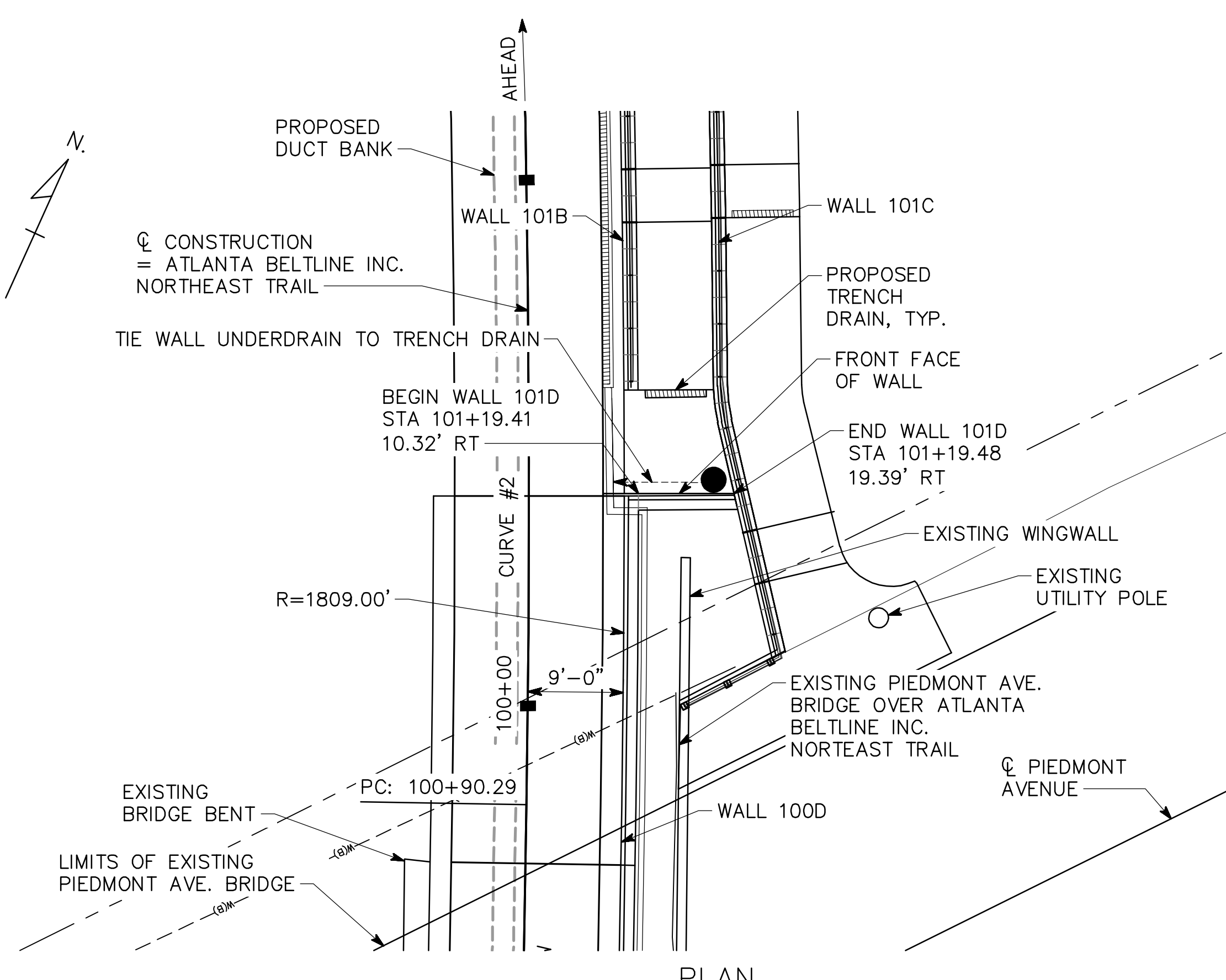
ATLANTA BELTLINE

PLAN AND ELEVATION
WALL NO. 101C (MSE)
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

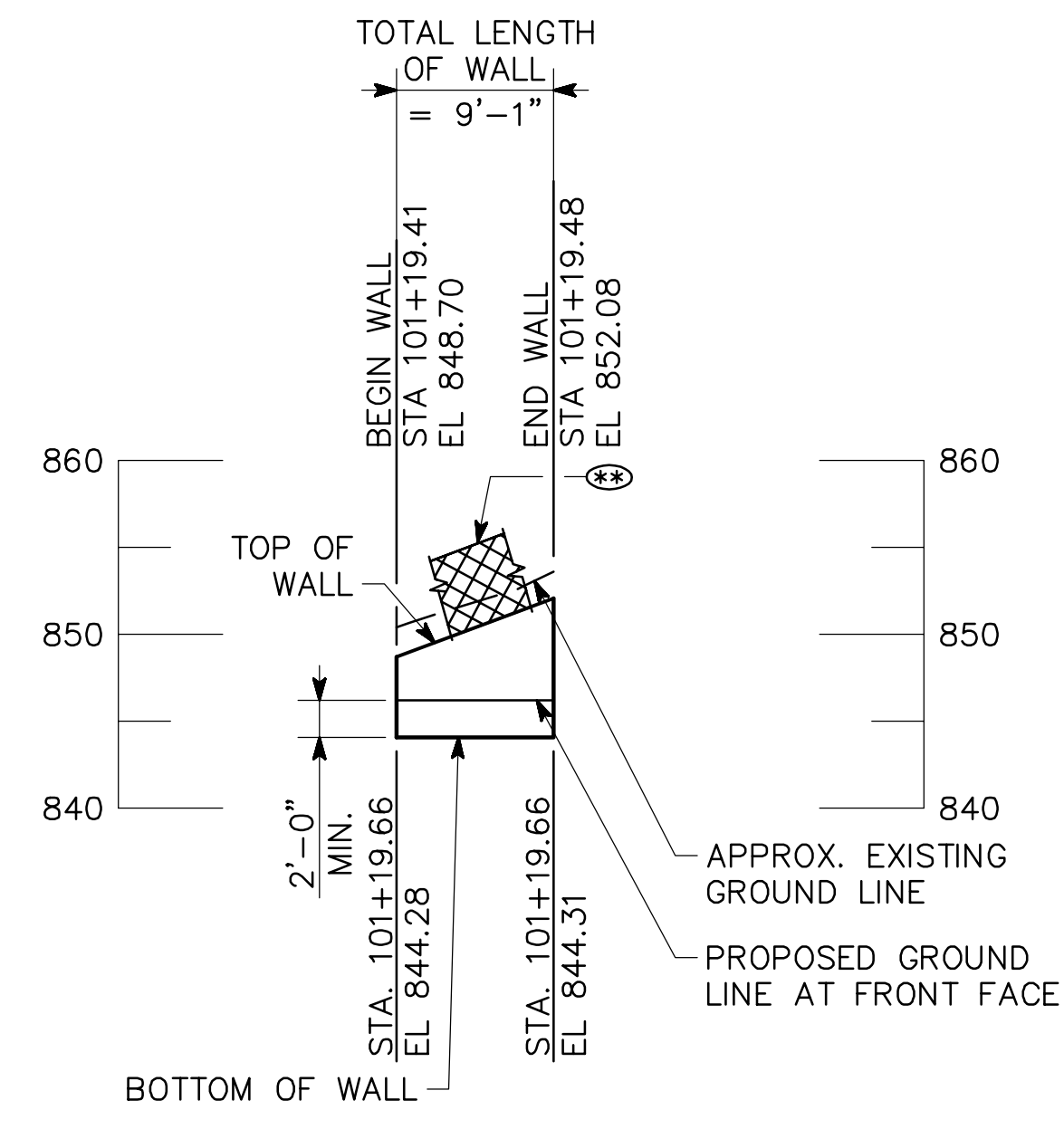
SCALE: 1" = 10'-0" OCTOBER 2021

DESIGNED ASG CHECKED NMC REVIEWED
DRAWN DDL/JJK DESIGN GROUP APPROVED

DRAWING NO. 32-0006
WALL SHEET 6 OF 18



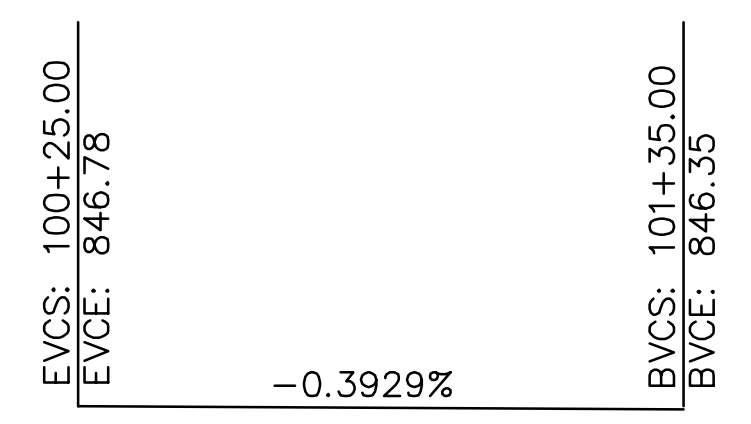
PLAN



ELEVATION
LOOKING AT BACK FACE WALL

CURVE #2 (CL CONSTRUCTION)
 PI STA. = 101+63.25
 N = 1380705.70
 E = 2234522.98
 DELTA = 4°-38'-33"
 D = 3°-10'-59.16"
 T = 72.97 FT
 L = 145.85 FT
 R = 1800.00 FT
 E = 1.48 FT

HORIZONTAL CURVE DATA



VERTICAL CURVE DATA

NOTES

1. STATIONS ARE MEASURED ALONG CL CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
7. (SR) INDICATES 42" METAL SAFETY RAIL.

WALL NO. 101D

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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 101D (PERMANENTLY ANCHORED)
 ATLANTA BELTLINE NORTEAST TRAIL
 FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

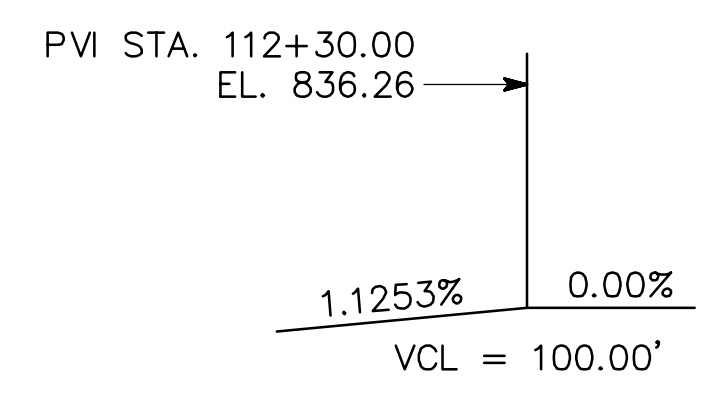
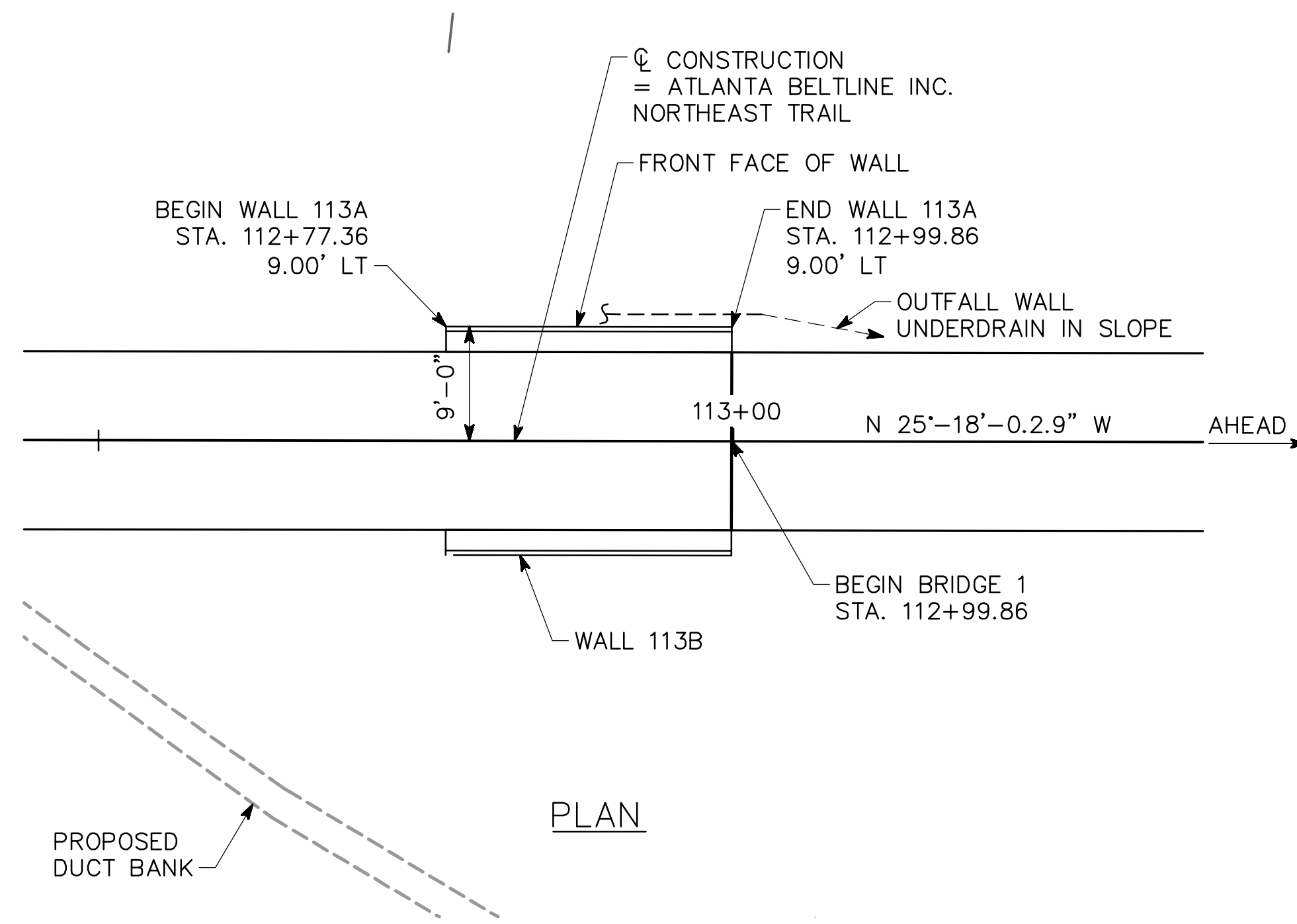


REVISIONS	DATE

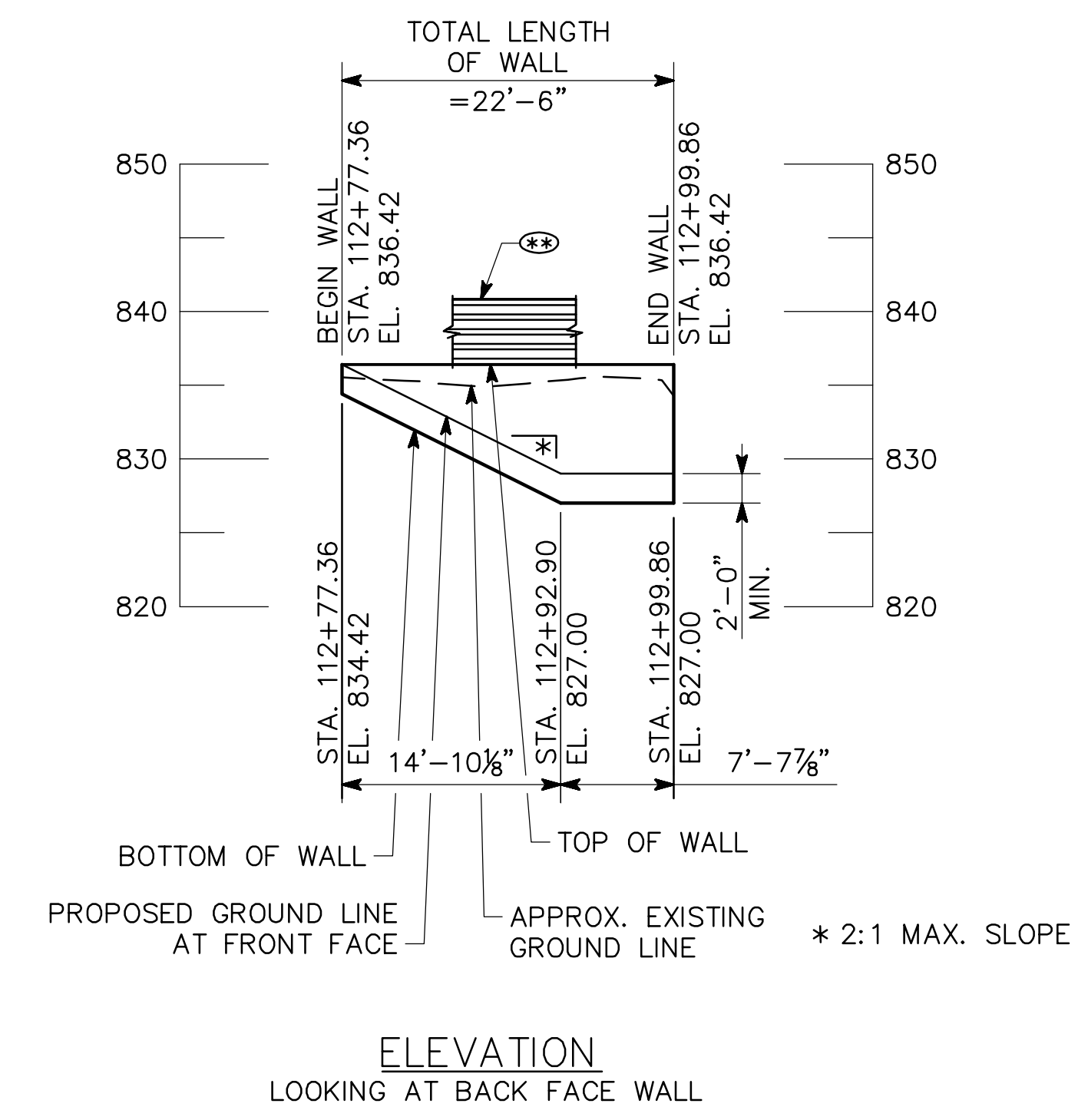
DRAWING NO. 32-0007
WALL SHEET 7 OF 18

DESIGNED ASG	CHECKED NMC	REVIEWED
DRAWN ASG	DESIGN GROUP	APPROVED

DATE: Oct 21, 2021 TIME: 4:05pm USER: kelly.glynn



- NOTES
1. STATIONS ARE MEASURED ALONG CL CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
 3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
 4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
 5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
 6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
 7. (⊗) INDICATES 54" TIMBER SAFETY RAIL.



WALL NO. 113A

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ATLANTA BELTLINE

PLAN AND ELEVATION
WALL NO. 113A (PERMANENTLY ANCHORED)
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

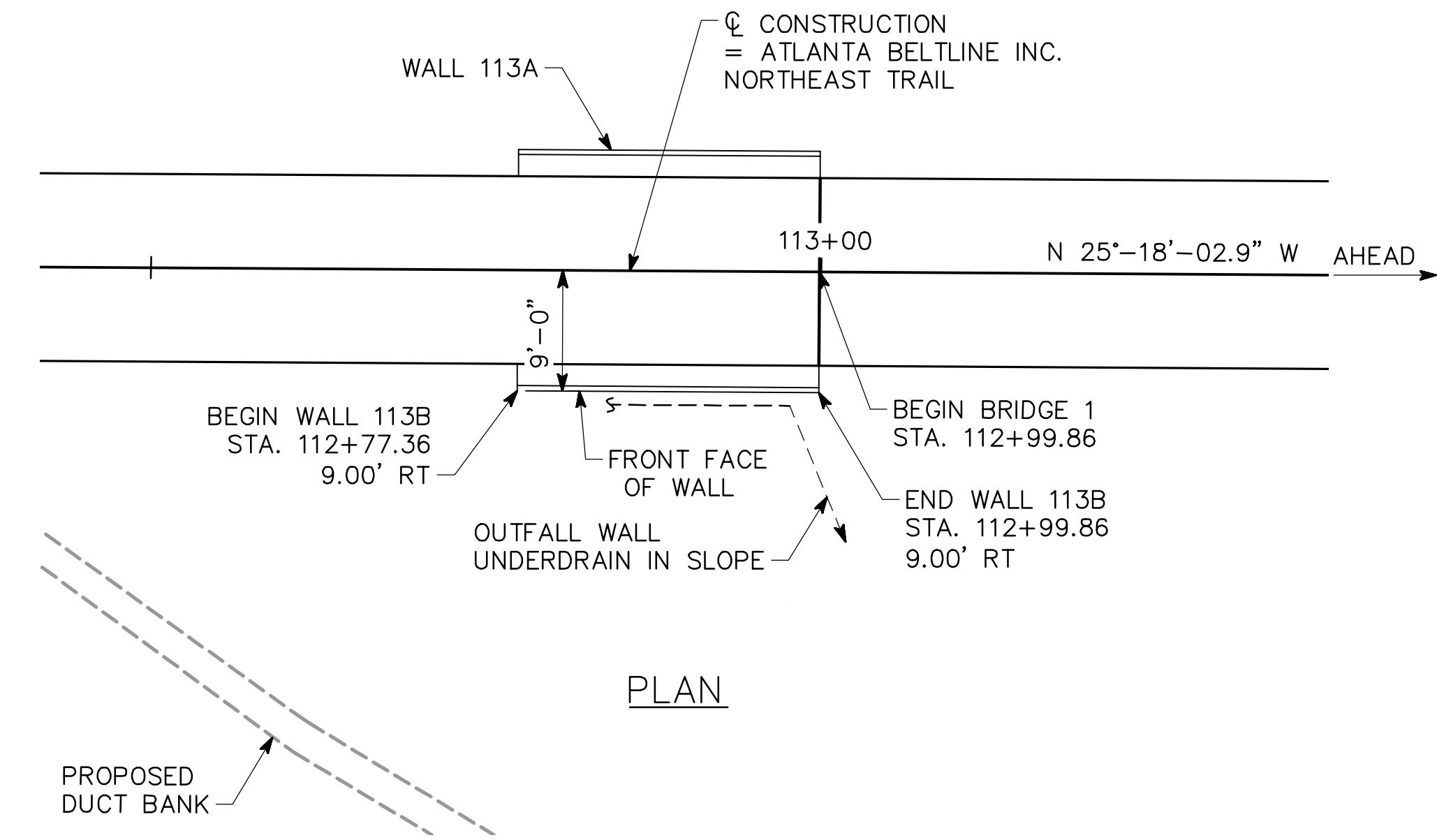
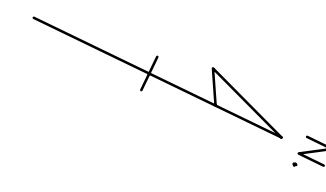
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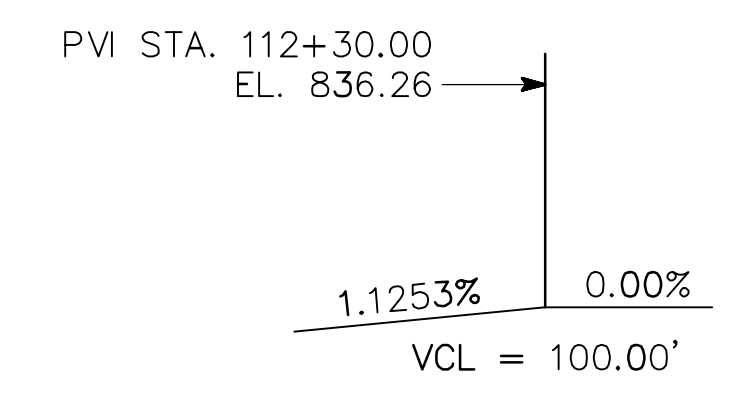
REVISIONS	DATE

DRAWING NO. 32-0008	DESIGNED ASG	CHECKED NMC	REVIEWED
WALL SHEET 8 OF 18	DRAWN DDL/JIK	DESIGN GROUP	APPROVED

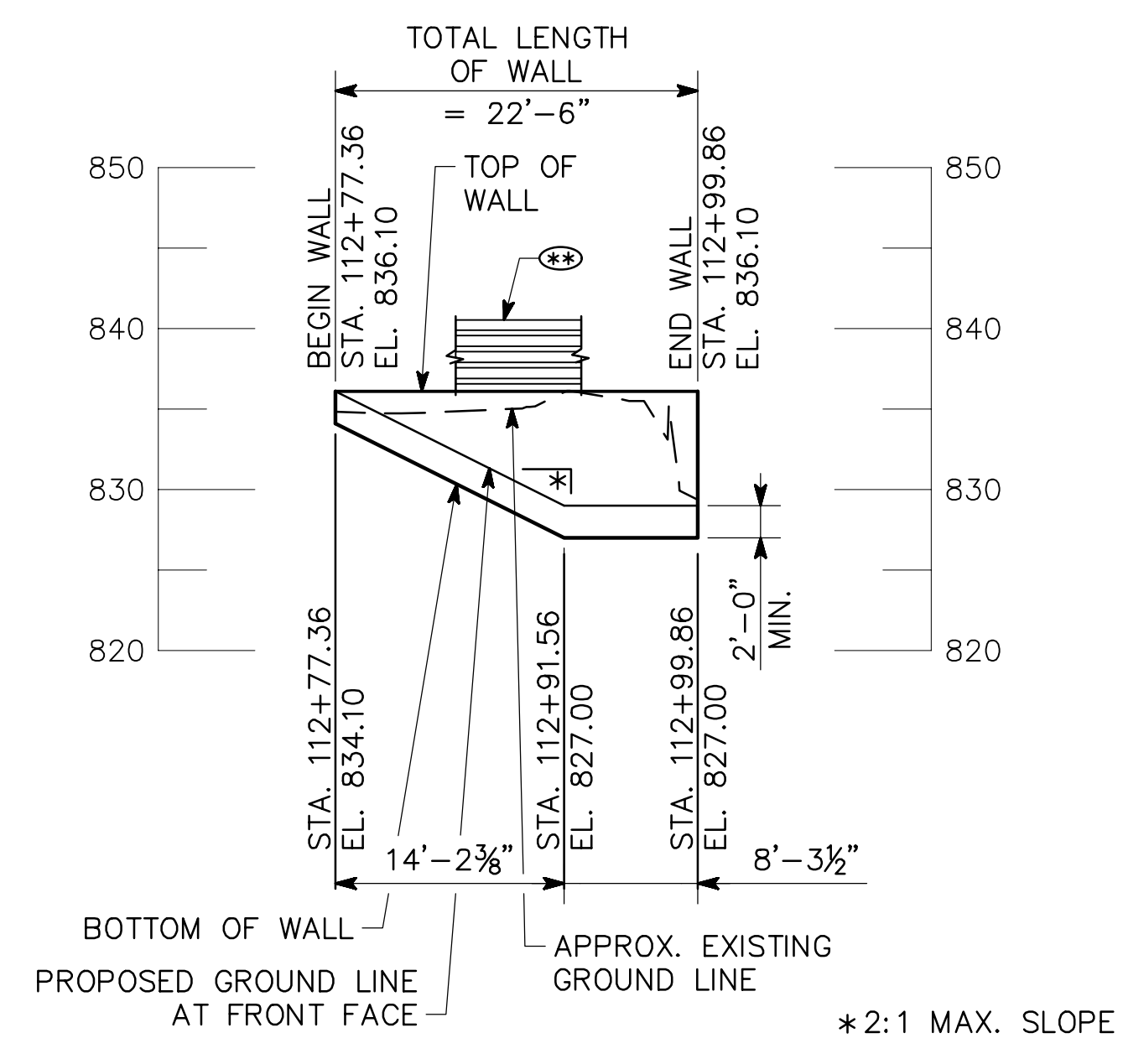
DATE: Oct 19, 2021 TIME: 9:55am USER: kelleysglynn



PLAN



VERTICAL CURVE DATA



ELEVATION
LOOKING AT FRONT FACE WALL

NOTES

1. STATIONS ARE MEASURED ALONG CL CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
7. (X) INDICATES 54" TIMBER SAFETY RAIL.

WALL NO. 113B

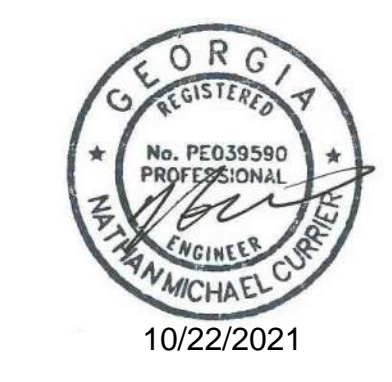
Kimley»Horn

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ATLANTA BELTLINE

PLAN AND ELEVATION
WALL NO. 113B (PERMANENTLY ANCHORED)
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

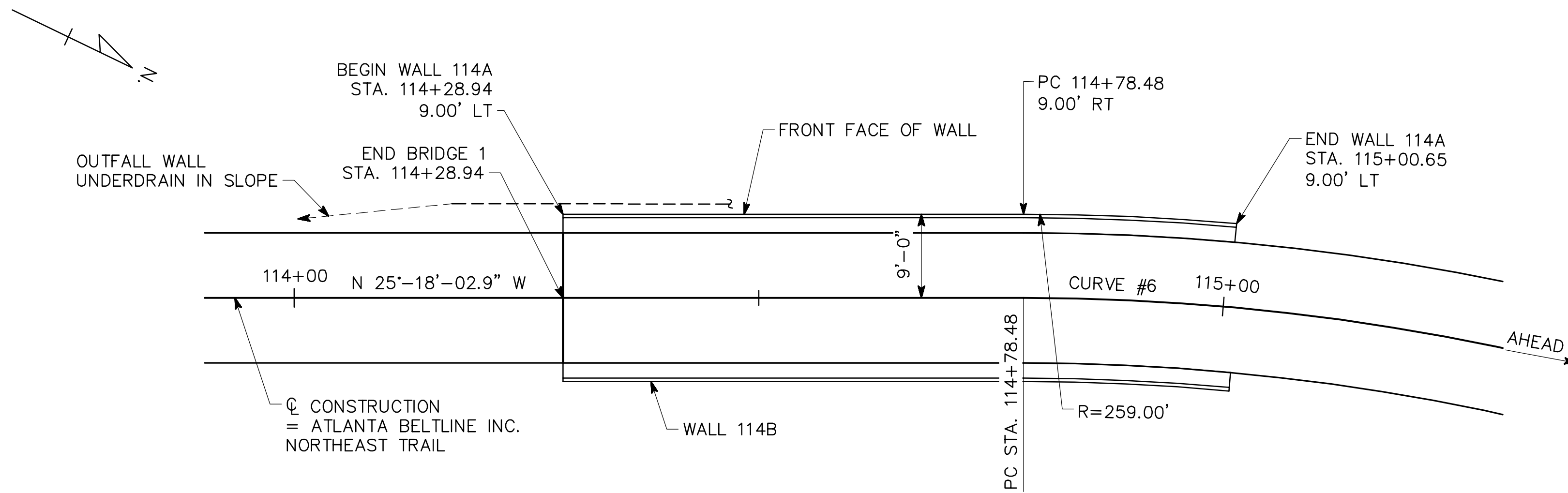


DRAWING NO.
32-0009
WALL SHEET
9 OF 18

REVISIONS	DATE

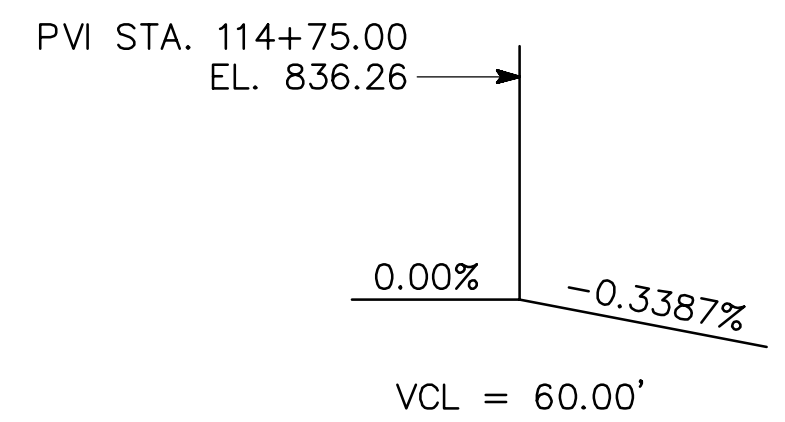
DESIGNED ASG
DRAWN DDL/JIK
CHECKED NMC
DESIGN GROUP
REVIEWED
APPROVED

DATE: Oct 19, 2021 TIME: 8:43am USER: kelleighlynn



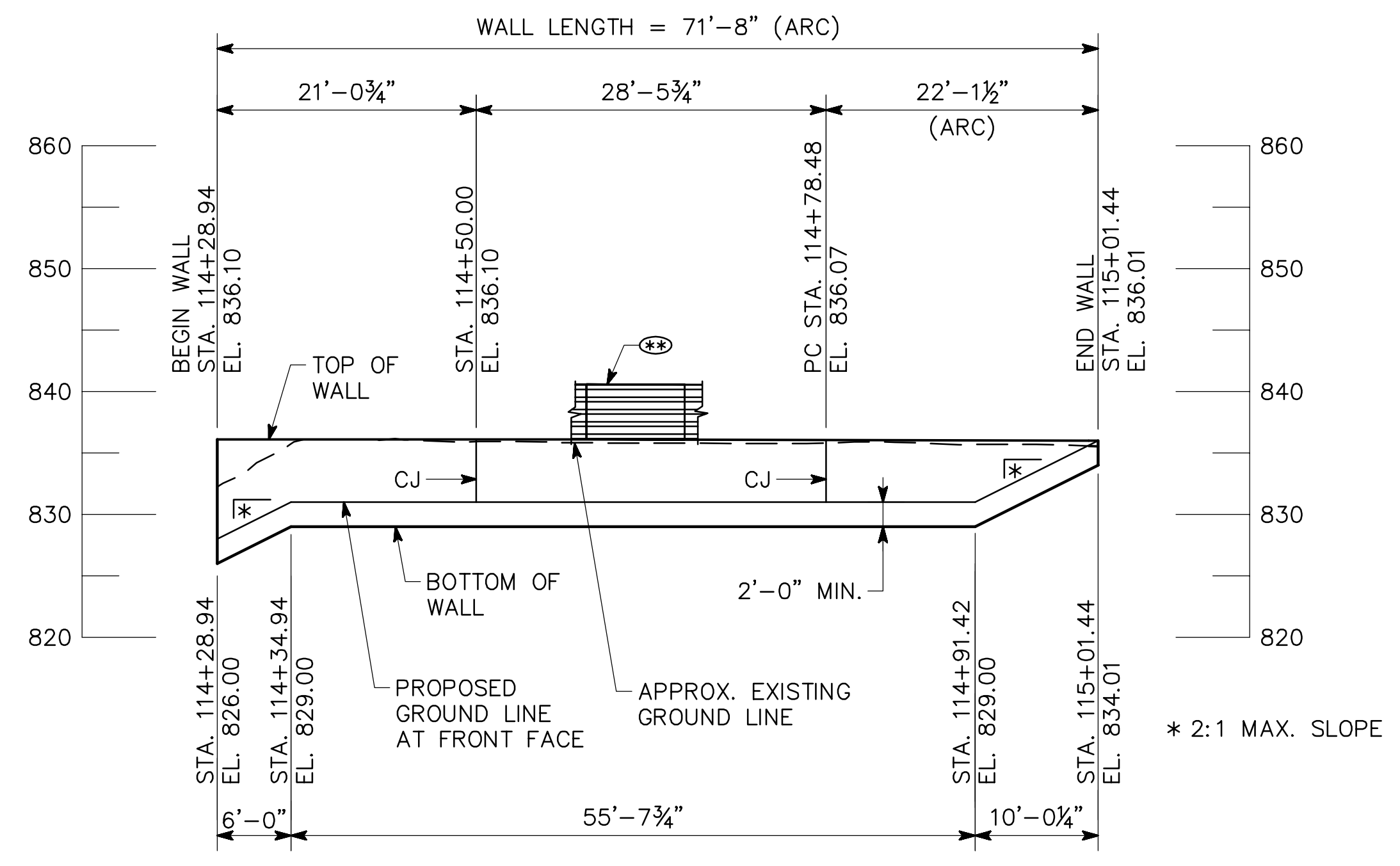
CURVE# 6 (CL CONSTRUCTION)
 PI STA. = 115+21.68
 N = 1381921.32
 E = 2233922.15
 DELTA = 19°-36'-19"
 D = 22°-55'-05.92"
 T = 43.19 FT
 L = 85.54 FT
 R = 250.00 FT
 S.E. = 1.75%

HORIZONTAL CURVE DATA



VERTICAL CURVE DATA

PLAN



ELEVATION
 LOOKING AT FRONT FACE WALL

NOTES

1. STATIONS ARE MEASURED ALONG CL CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
7. CJ INDICATES EXPANSION JOINT IN WALL AND VENEER.
8. JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.
9. (⊗) INDICATES 54" TIMBER SAFETY RAIL.

WALL NO. 114A

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 ATLANTA, GEORGIA 30308
 PHONE (404) 419-8700

ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 114A (PERMANENTLY ANCHORED)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

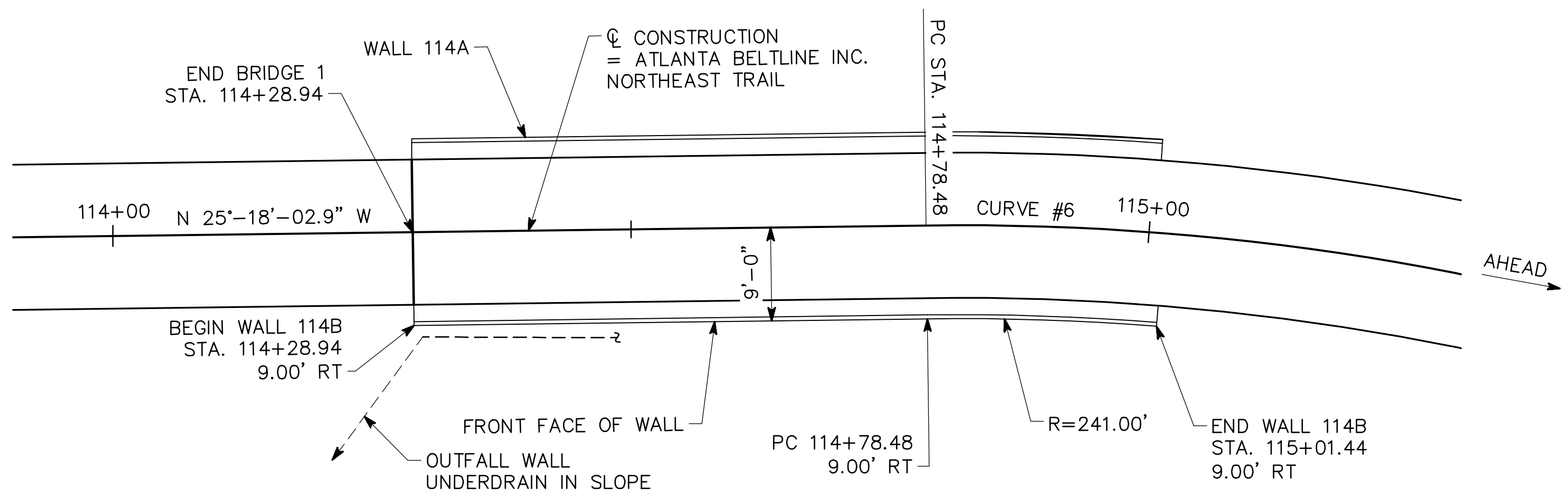
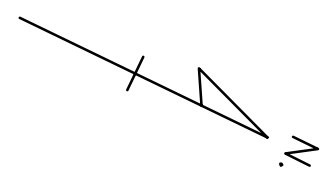
SCALE: 1" = 10'-0" OCTOBER 2021



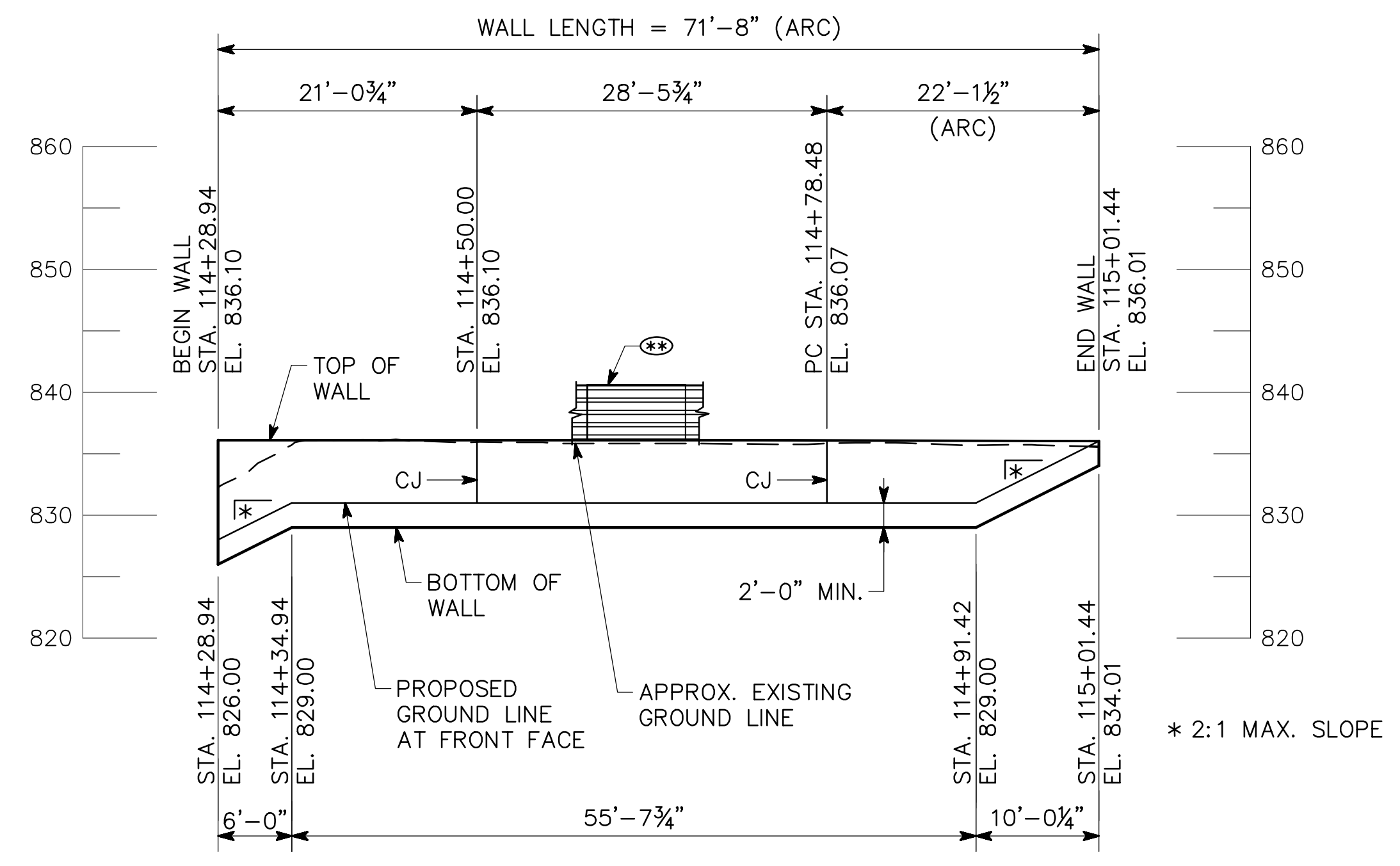
REVISIONS	DATE

DRAWING NO. 32-0010
WALL SHEET 10 OF 18

DESIGNED ASG	CHECKED NMC	REVIEWED
DRAWN DDL/JIK	DESIGN GROUP	APPROVED



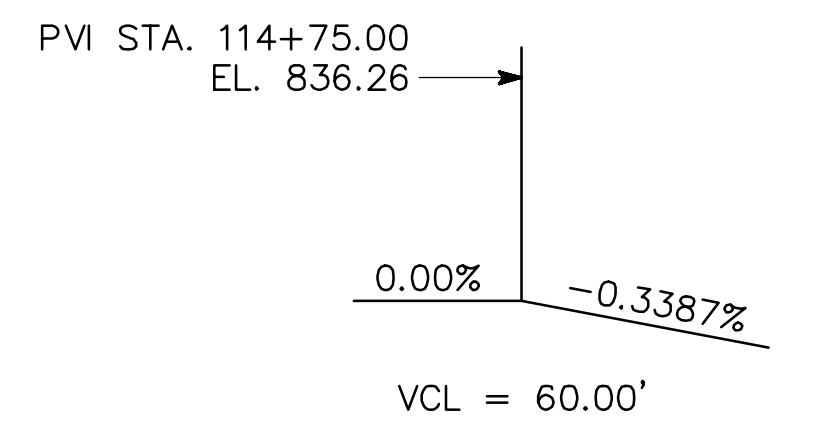
PLAN



ELEVATION
LOOKING AT FRONT FACE WALL

CURVE# 6 (Q CONSTRUCTION)
 PI STA. = 115+21.68
 N = 1381921.32
 E = 2233922.15
 DELTA = 19°-36'-19"
 D = 22°-55'-05.92"
 T = 43.19 FT
 L = 85.54 FT
 R = 250.00 FT
 S.E. = 1.75%

HORIZONTAL CURVE DATA



VERTICAL CURVE DATA

NOTES

1. STATIONS ARE MEASURED ALONG Q CONSTRUCTION. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
2. LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL AND INCLUDE GRANITE VENEER.
3. FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES".
4. FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS".
5. ELEVATIONS SHOWN ARE AT THE TOP OF CAPSTONE AT THE FRONT FACE OF WALL.
6. GRANITE VENEER NOT SHOWN FOR CLARITY, SEE 38 SERIES.
7. CJ INDICATES EXPANSION JOINT IN WALL AND VENEER.
8. JOINT SPACINGS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE COORDINATED WITH STONE VENEER JOINT SPACING BY THE CONTRACTOR.
9. (⊛) INDICATES 54" TIMBER SAFETY RAIL.

WALL NO. 114B

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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 114B (PERMANENTLY ANCHORED)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

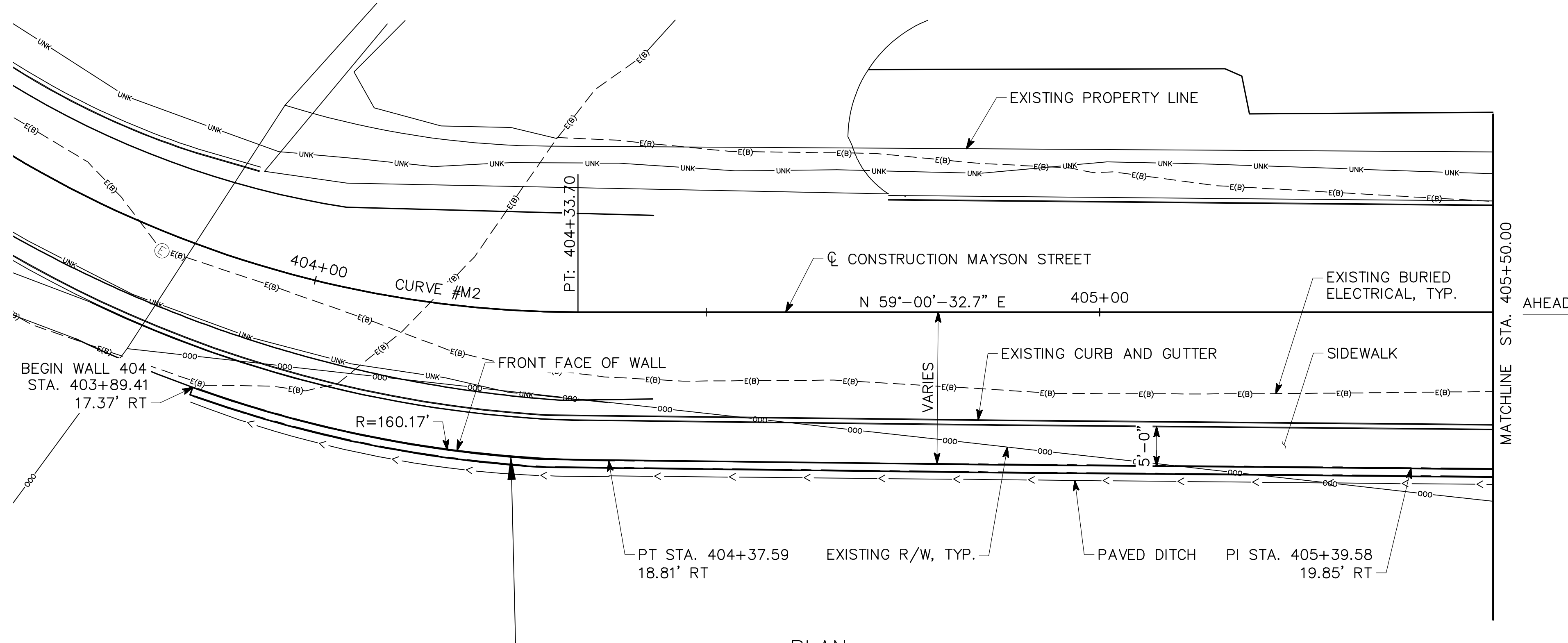
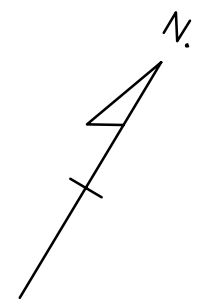
SCALE: 1" = 10'-0" OCTOBER 2021



REVISIONS	DATE

DRAWING NO. 32-0011	DESIGNED ASG	CHECKED NMC	REVIEWED
WALL SHEET 11 OF 18	DRAWN DDL/JIK	DESIGN GROUP	APPROVED

DATE: Oct 19, 2021 TIME: 8:45am USER: kelly.glynn



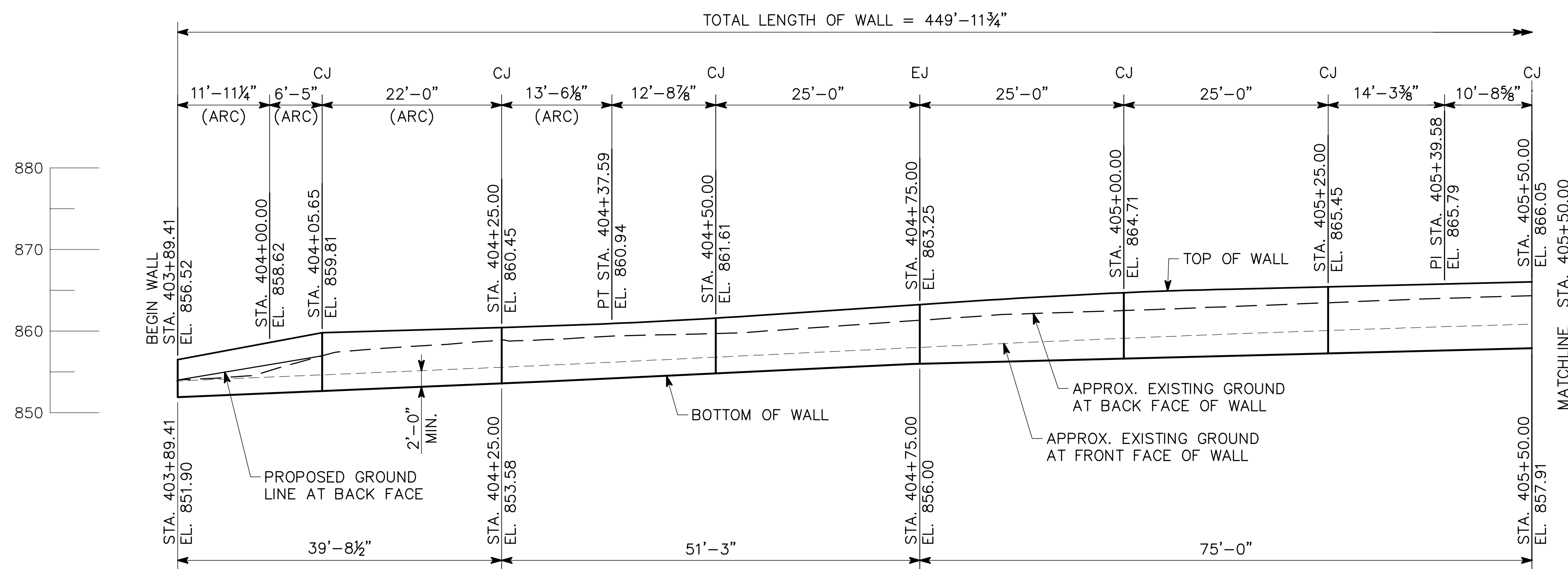
PLAN

CURVE #M2 (MAYSON STREET)
 PI STA. = 403+80.67
 N = 1385836.69
 E = 2232641.87
 DELTA = 46°-03'-26"
 T = 59.51 FT
 L = 112.54 FT
 R = 140.00 FT
 S.E. = EXISTING

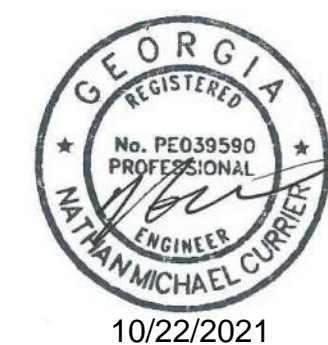
HORIZONTAL CURVE DATA
 MAYSON STREET

NOTES

- STATIONS ARE MEASURED ALONG ϕ CONSTRUCTION MAYSON STREET. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
 - FOR EXISTING MAYSON STREET PROFILE, SEE "CROSS ROAD PROFILE", SHEET 16-001.
 - FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES."
 - FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS."
 - ELEVATIONS SHOWN ARE AT THE TOP OF WALL AT THE FRONT FACE OF WALL.
 - EJ INDICATES EXPANSION JOINT IN WALL.
 - CJ INDICATES CONTROL JOINT IN WALL.
- ARC - ARC DIMENSION



ELEVATION
 LOOKING AT BACK FACE WALL



10/22/2021

REVISIONS	DATE

WALL NO. 404

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ATLANTA BELTLINE

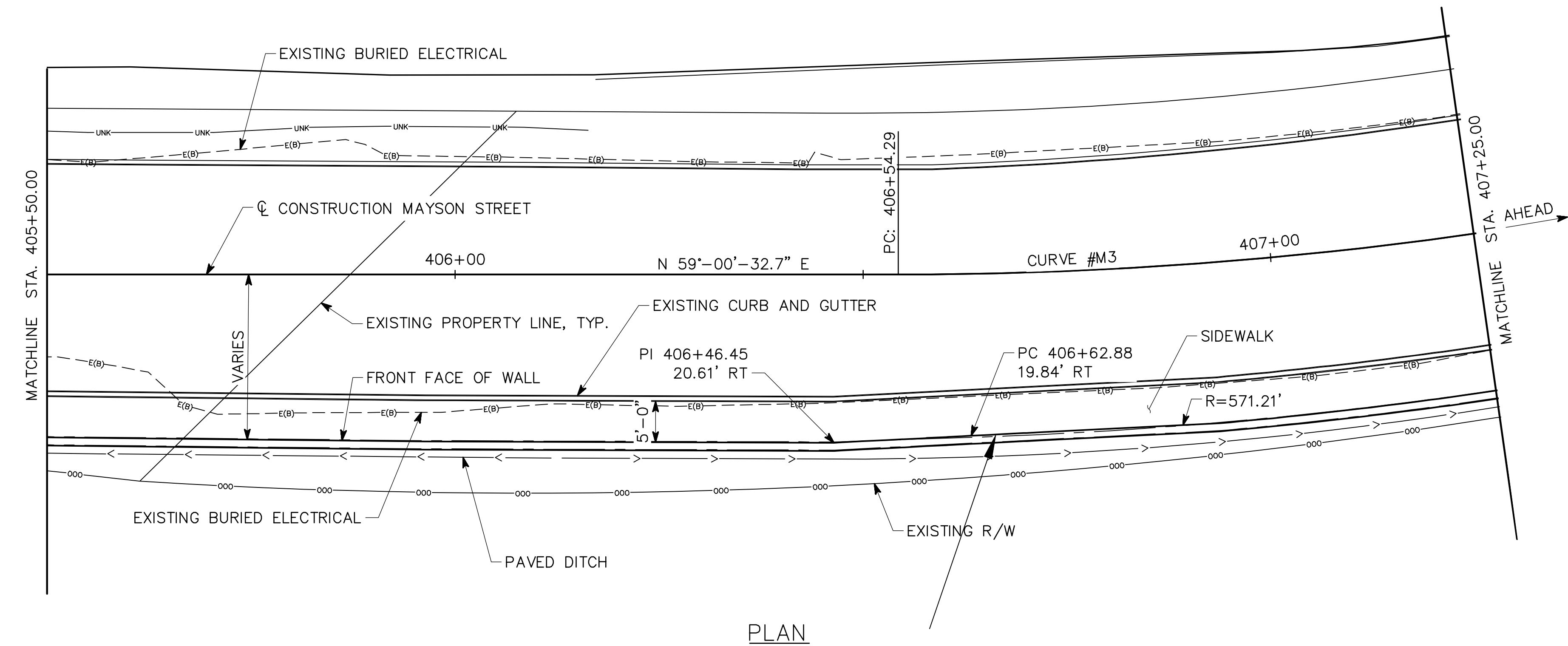
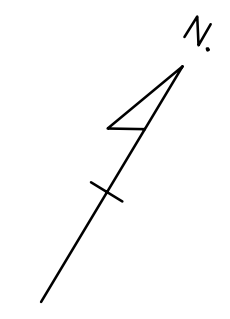
PLAN AND ELEVATION
 WALL NO. 404 (1 OF 3) (PERM. ANCHORED)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

DESIGNED <u>ASG</u>	CHECKED <u>NMC</u>	REVIEWED
DRAWN <u>KAG</u>	DESIGN GROUP	APPROVED

DATE: Oct 19, 2021 TIME: 8:47am USER: kelly.glynn

DATE: Oct 19, 2021 TIME: 8:48am USER: kelly.glynn

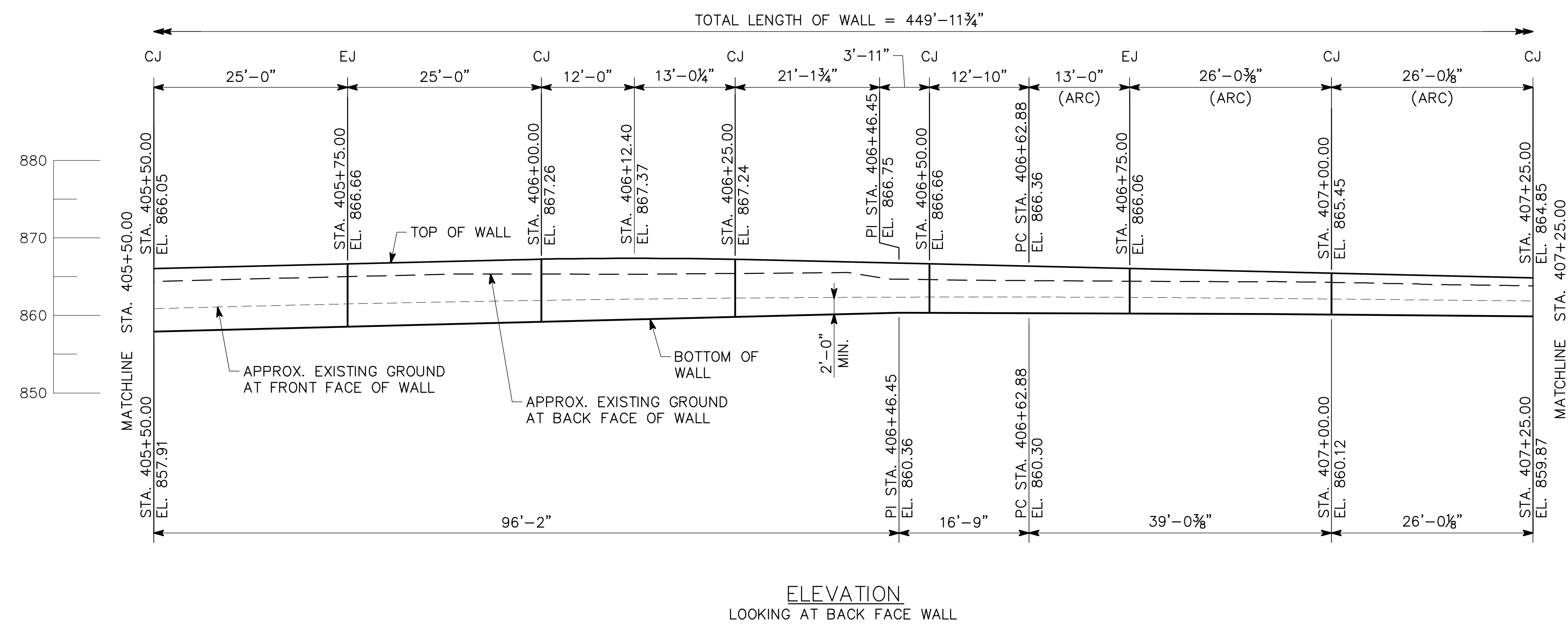


CURVE #M3 (MAYSON STREET)
 PI STA. = 407+38.70
 N = 1386024.37
 E = 2232954.35
 DELTA = 19°-09'-53"
 T = 84.41 FT
 L = 167.24 FT
 R = 500.00 FT
 S.E. = EXISTING

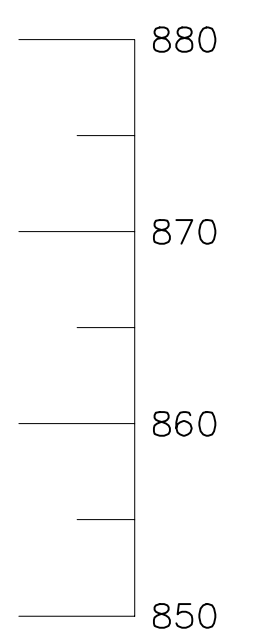
HORIZONTAL CURVE DATA
MAYSON STREET

NOTES

- STATIONS ARE MEASURED ALONG ϕ CONSTRUCTION MAYSON STREET. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
 - FOR EXISTING MAYSON STREET PROFILE, SEE "CROSS ROAD PROFILE", SHEET 16-001.
 - FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES."
 - FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS."
 - ELEVATIONS SHOWN ARE AT THE TOP OF WALL AT THE FRONT FACE OF WALL.
 - EJ INDICATES EXPANSION JOINT IN WALL.
 - CJ INDICATES CONTROL JOINT IN WALL.
- ARC - ARC DIMENSION



ELEVATION
 LOOKING AT BACK FACE WALL



10/22/2021

REVISIONS	DATE

WALL NO. 404

Kimley»Horn

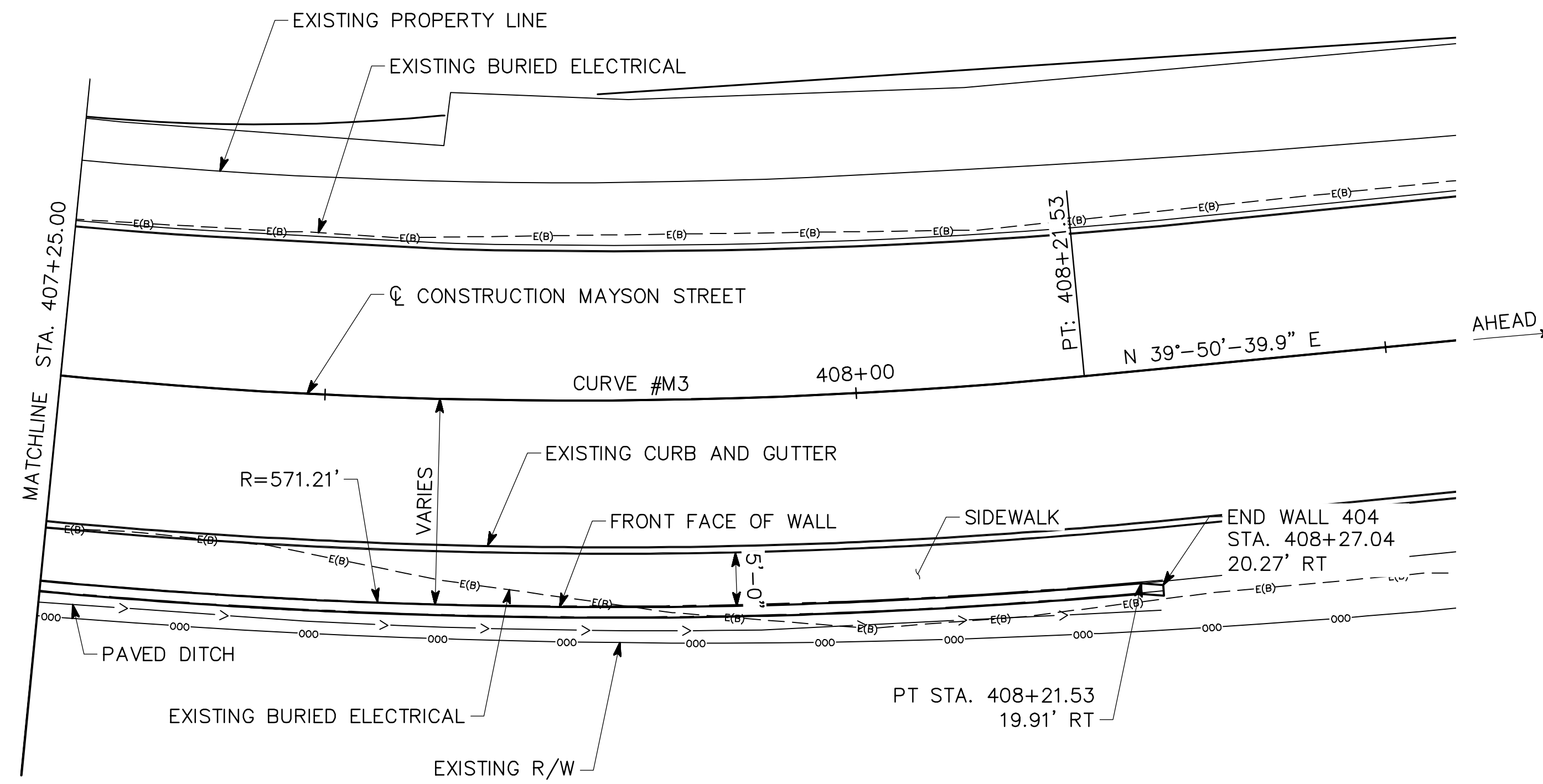
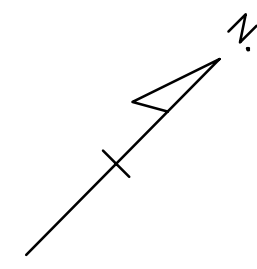
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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 404 (2 OF 3) (PERM. ANCHORED)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

DRAWING NO. 32-0013	DESIGNED <u>ASG</u>	CHECKED <u>NMC</u>	REVIEWED
WALL SHEET 13 OF 18	DRAWN <u>KAG</u>	DESIGN GROUP	APPROVED



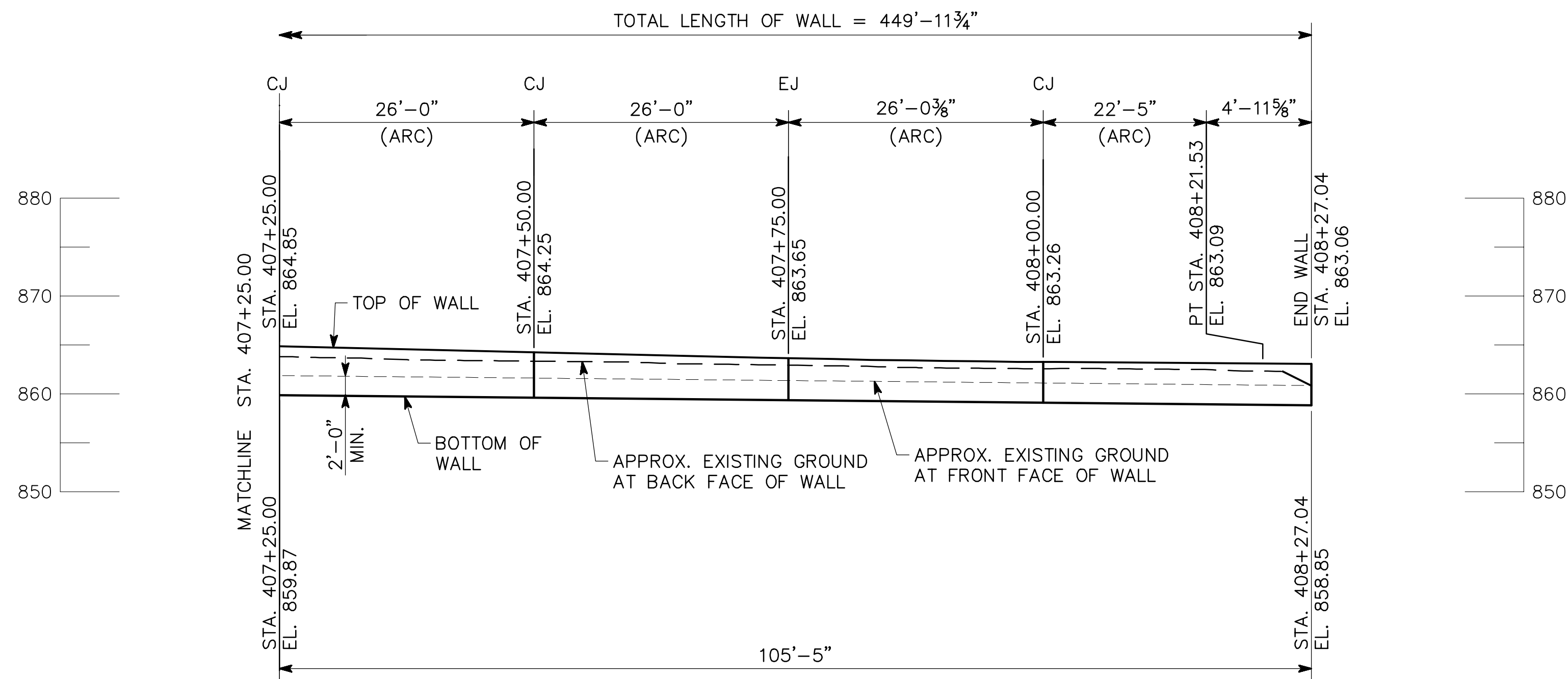
PLAN

CURVE #M3 (MAYSON STREET)
 PI STA. = 407+38.70
 N = 1386024.37
 E = 2232954.35
 DELTA = 19°-09'-53"
 T = 84.41 FT
 L = 167.24 FT
 R = 500.00 FT
 S.E. = EXISTING

HORIZONTAL CURVE DATA
MAYSON STREET

NOTES

- STATIONS ARE MEASURED ALONG C CONSTRUCTION MAYSON STREET. OFFSETS ARE MEASURED TO FRONT FACE OF WALL.
 - LENGTHS ARE MEASURED ALONG FRONT FACE OF WALL.
 - FOR EXISTING MAYSON STREET PROFILE, SEE "CROSS ROAD PROFILE", SHEET 16-001.
 - FOR WALL NOTES, DESIGN DATA, AND SUMMARY OF QUANTITIES, SEE "GENERAL NOTES."
 - FOR TYPICAL SECTIONS AND DETAILS, SEE "WALL DETAILS."
 - ELEVATIONS SHOWN ARE AT THE TOP OF WALL AT THE FRONT FACE OF WALL.
 - EJ INDICATES EXPANSION JOINT IN WALL.
 - CJ INDICATES CONTROL JOINT IN WALL.
- ARC - ARC DIMENSION



ELEVATION
LOOKING AT BACK FACE WALL

WALL NO. 404

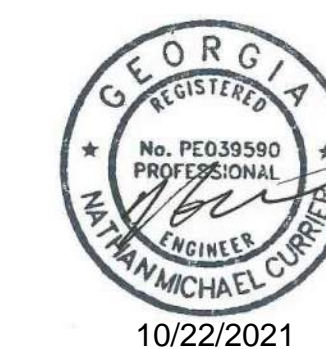
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ATLANTA BELTLINE

PLAN AND ELEVATION
 WALL NO. 404 (3 OF 3) (PERM. ANCHORED)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

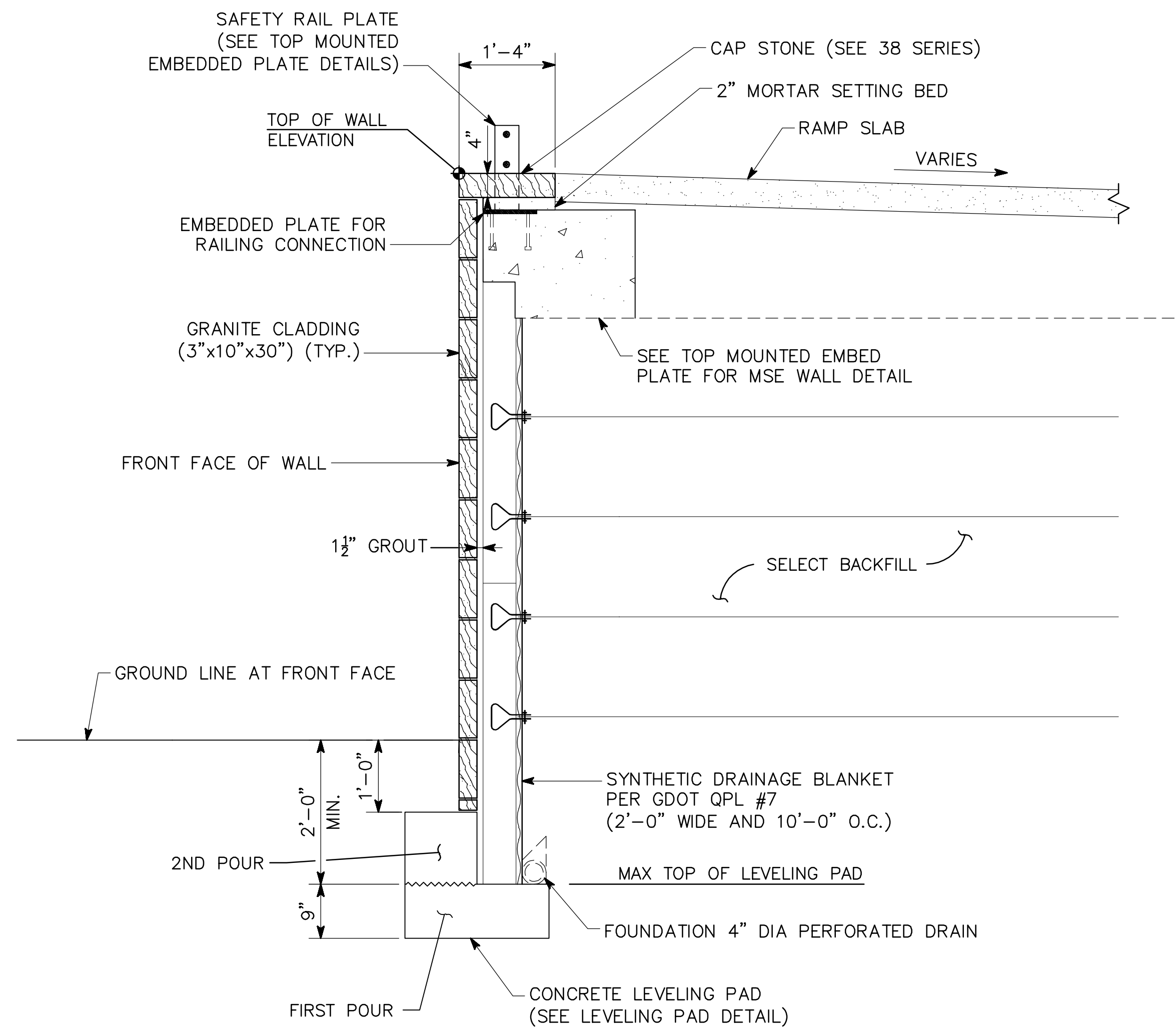


10/22/2021

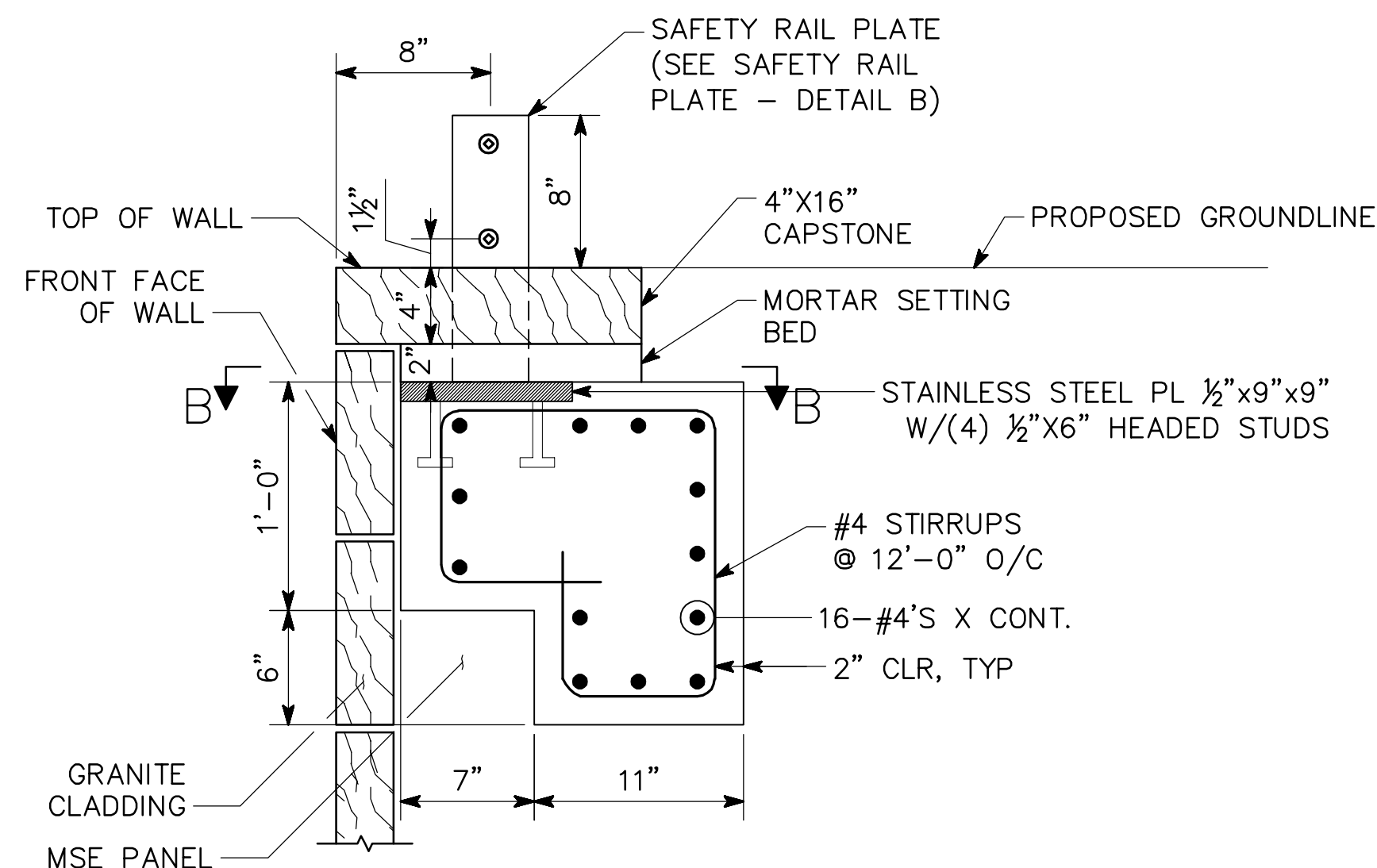
DRAWING NO.
32-0014
WALL SHEET
14 OF 18

REVISIONS	DATE

DESIGNED ASG	CHECKED NMC	REVIEWED
DRAWN KAG	DESIGN GROUP	APPROVED



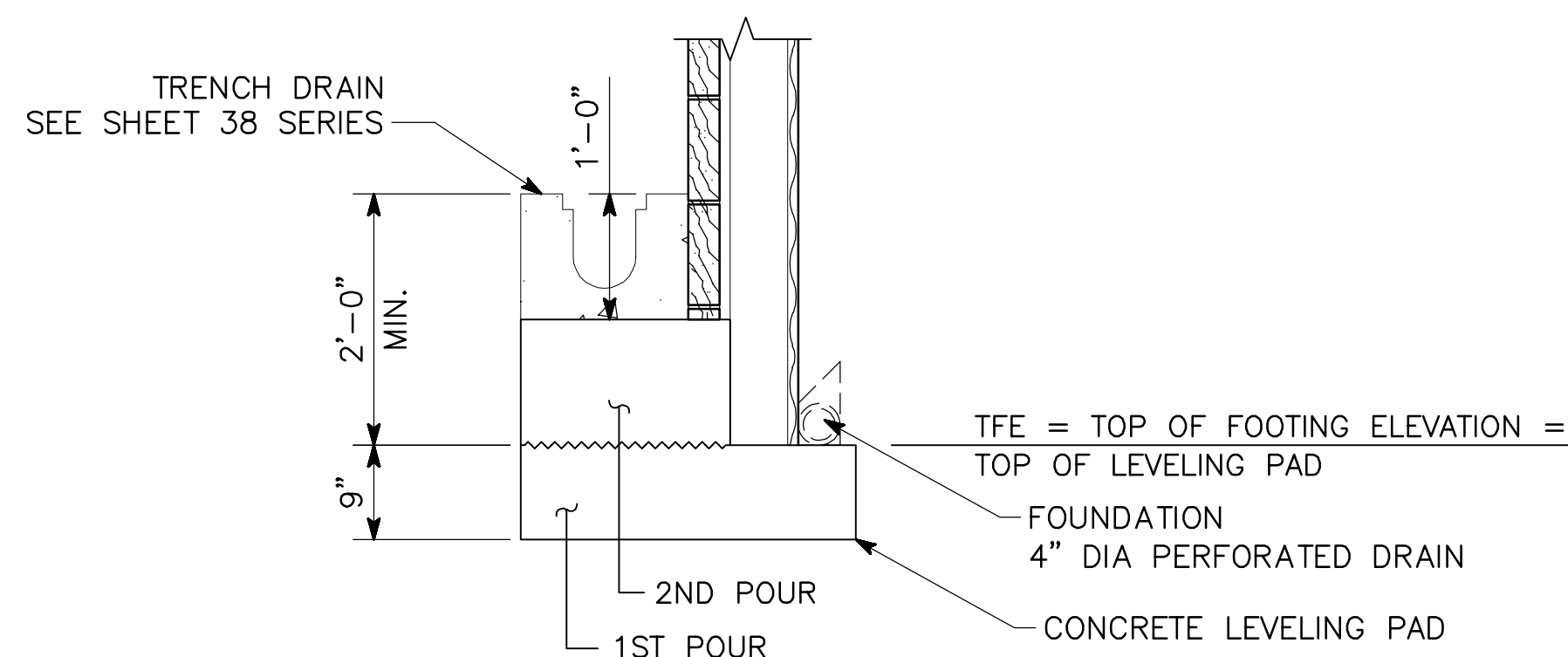
TYPICAL SECTION – MECHANICALLY STABILIZED EARTH (MSE) WALL
SCALE: 3/4"=1'-0"



TOP-MOUNTED EMBED PLATE FOR MSE WALLS
(WALL 123)
SCALE: 1 1/2"=1'-0"

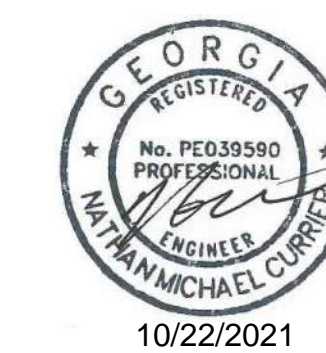
NOTES

1. GRANITE VENEER TIES SHALL BE INSERTED INTO VERTICAL AND HORIZONTAL GROUT JOINTS.
2. MORTAR SHALL HAVE A MINIMUM STRENGTH OF $f_m = 2000$ P.S.I. AND SHALL BE PLACED ABOVE AND BELOW THE GRANITE ANCHOR. PORTLAND CEMENT GROUT SHALL CONFORM TO 834.03.
3. ALL STAINLESS STEEL SHALL CONFORM TO ASTM A666, TYPE 316.



TRENCH DRAIN
SCALE: 3/4"=1'-0"

MIN. REINF. LAP LENGTHS	
#3	2'-0"
#4	2'-0"



DATE	REVISIONS

DRAWING NO. 32-0015
WALL SHEET 15 OF 18

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ATLANTA BELTLINE

WALL DETAILS (1 OF 4)
MSE WALL
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

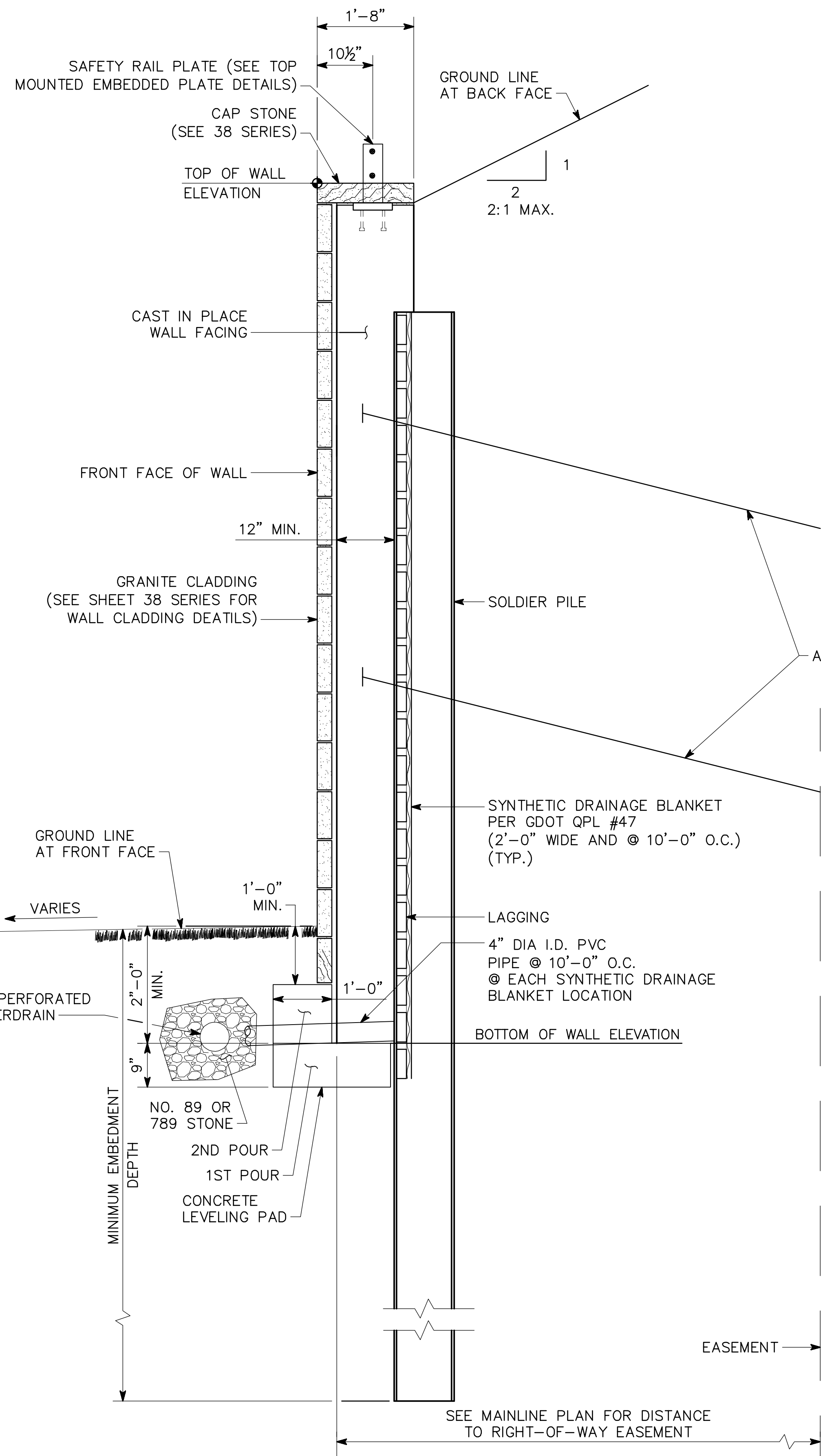
SCALE: AS SHOWN-0"

OCTOBER 2021

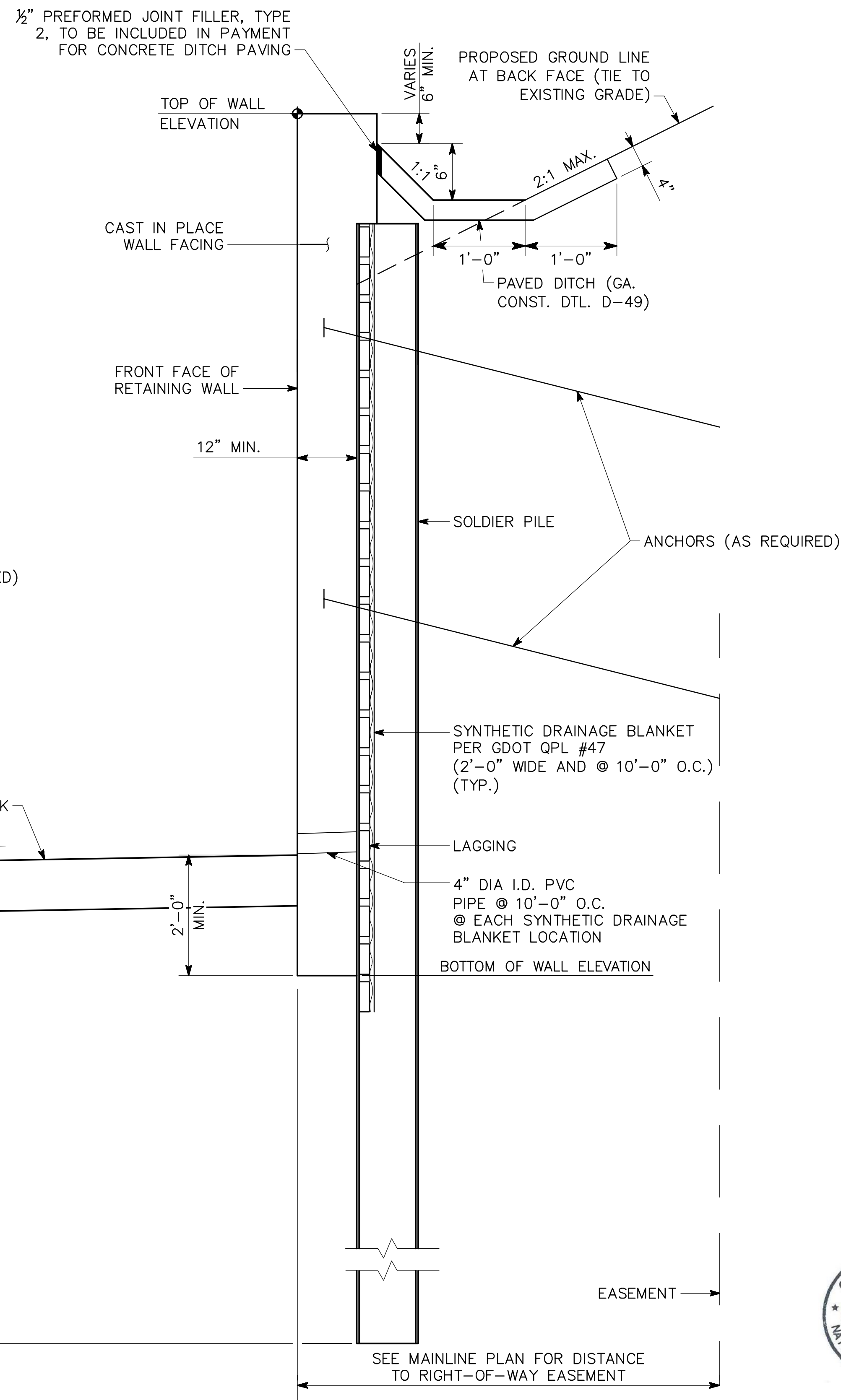
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DRAWN: DDL/JJK	DESIGN GROUP:	APPROVED:

DATE: Oct 21, 2021 TIME: 10:26pm

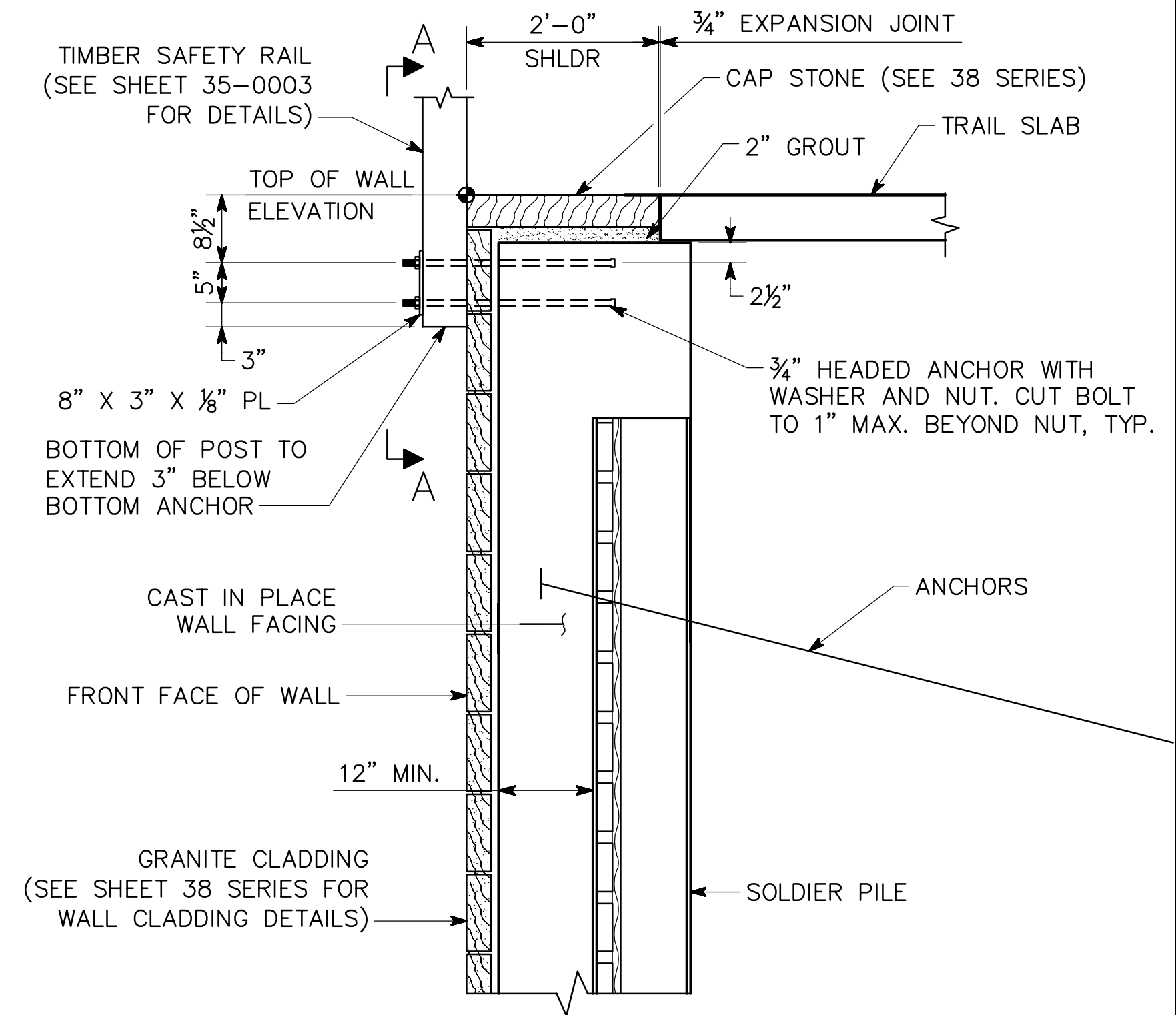
USER: kelly.glynn



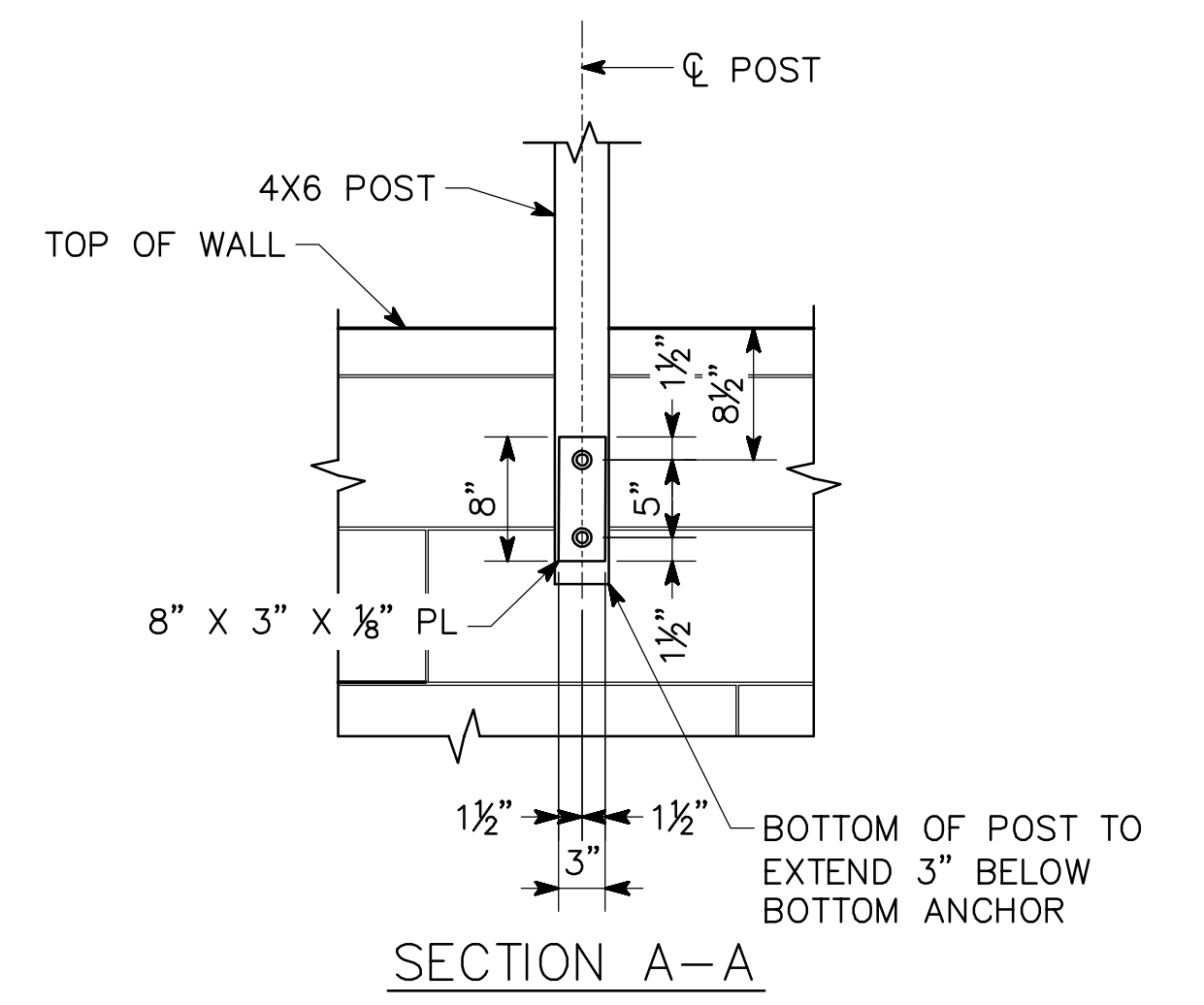
TYPICAL SECTION – PERMANENTLY ANCHORED WALLS
(WALLS 100B AND 101D)



TYPICAL SECTION – PERMANENTLY ANCHORED WALLS
(WALL 404)



TYPICAL SECTION – PERMANENTLY ANCHORED WALLS
(WALLS 113A, 113B, 114A, 114B)



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ATLANTA BELTLINE

WALL DETAILS (2 OF 4)
PERMANENTLY ANCHORED
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

SCALE: 3/4" = 1'-0" OCTOBER 2021



10/22/2021

DRAWING NO.	32-0016
WALL SHEET	16 OF 18

DATE	
REVISIONS	
BY	

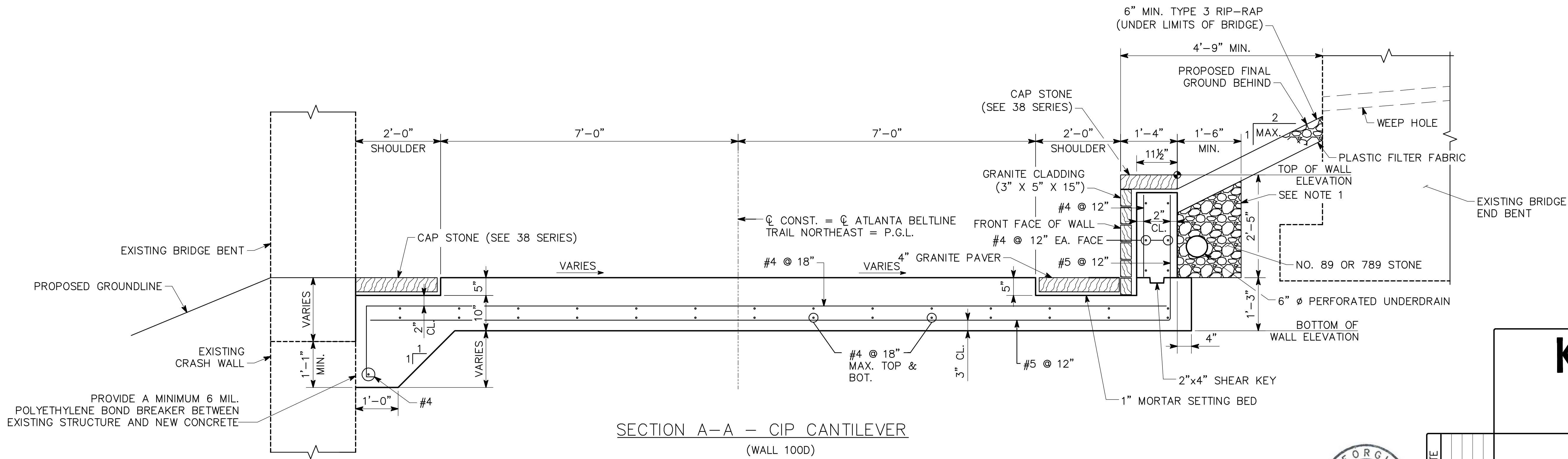
DESIGNED	ASG	CHECKED	NMC	REVIEWED	
DRAWN	DDL/JIK	DESIGN GROUP		APPROVED	

1 INCH WHEN PRINTED FULL SIZE

19927007_32-0016_WallDetails.dwg

DATE: Oct 27, 2021 TIME: 11:49am

USER: kelly.glynn



NOTES:

1. PLACE PERFORATED UNDERDRAIN AT BOTTOM OF NO. 89 OR 789 STONE WITH PLASTIC FILTER FABRIC PLACED ON ALL SIDES. TIE UNDERDRAIN TO TRENCH DRAIN AT BOTTOM OF RAMP. UNDERDRAIN, STONE, AND TYPE 3 RIP-RAP ARE INCIDENTAL TO COST OF WALL.
2. POUR WALL FOUNDATION AND TRAIL SLAB CONTINUOUS TO CONSTRUCTION JOINT IDENTIFIED IN 38 SERIES ENLARGEMENT SERIES.

SECTION A-A - CIP CANTILEVER
(WALL 100D)

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ATLANTA BELTLINE

WALL DETAILS (3 OF 4)
CIP CANTILEVER
ATLANTA BELTLINE NORTHEAST TRAIL
FULTON COUNTY

SCALE: 3/4" = 1'-00"

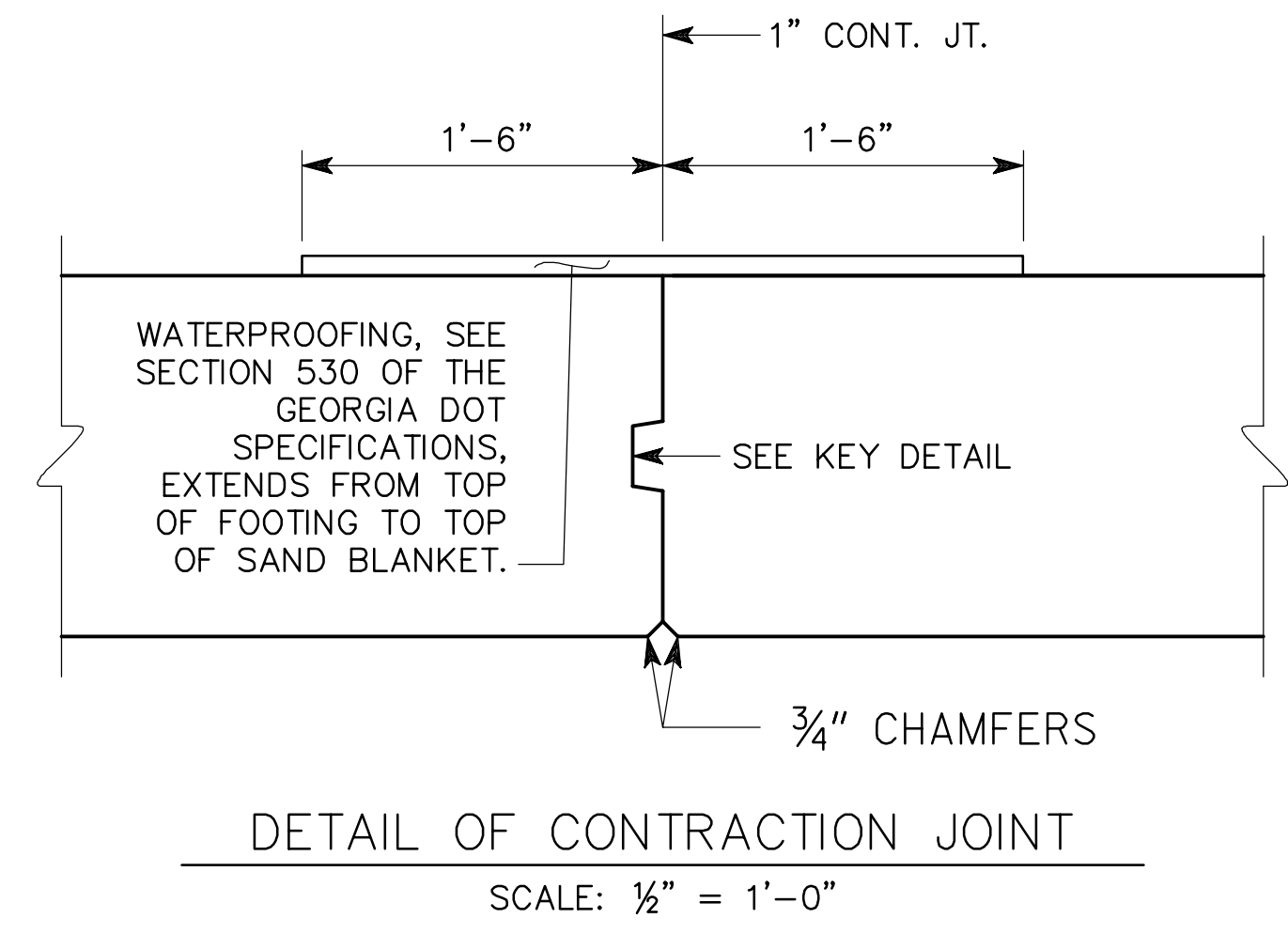
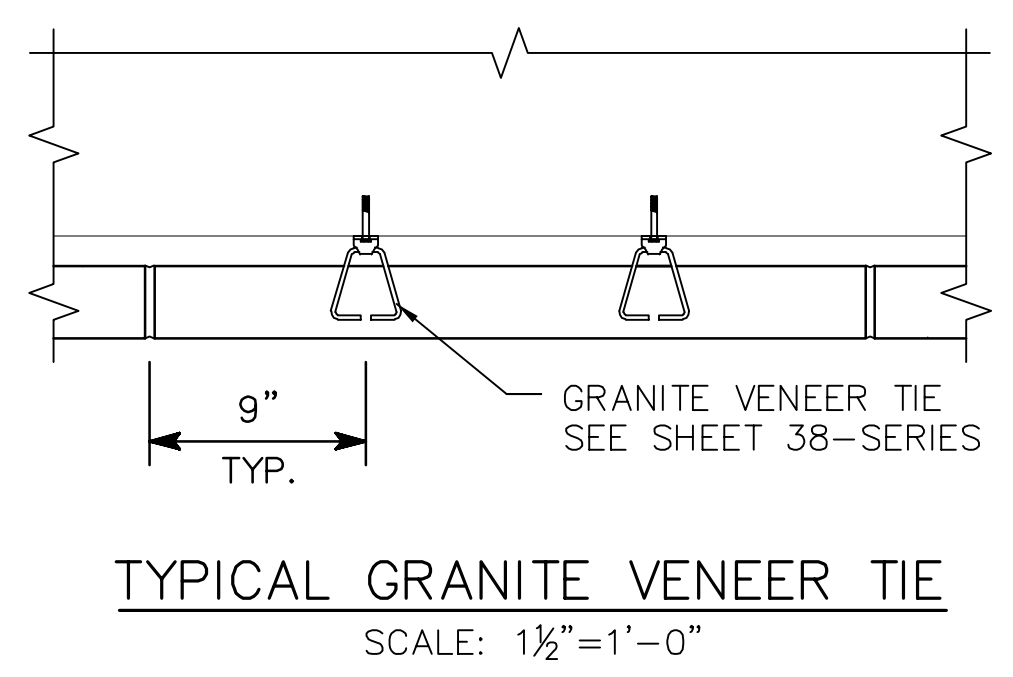
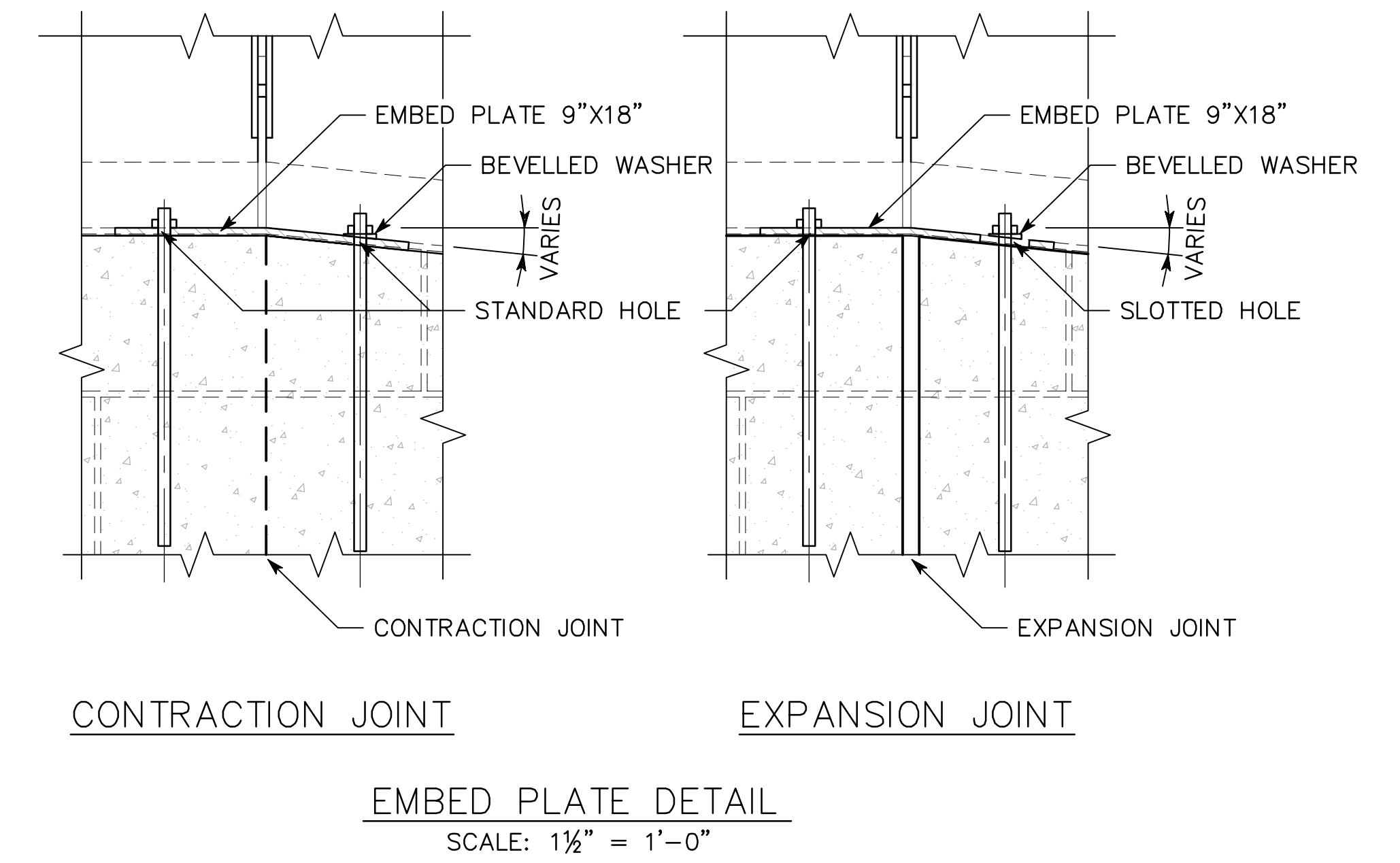
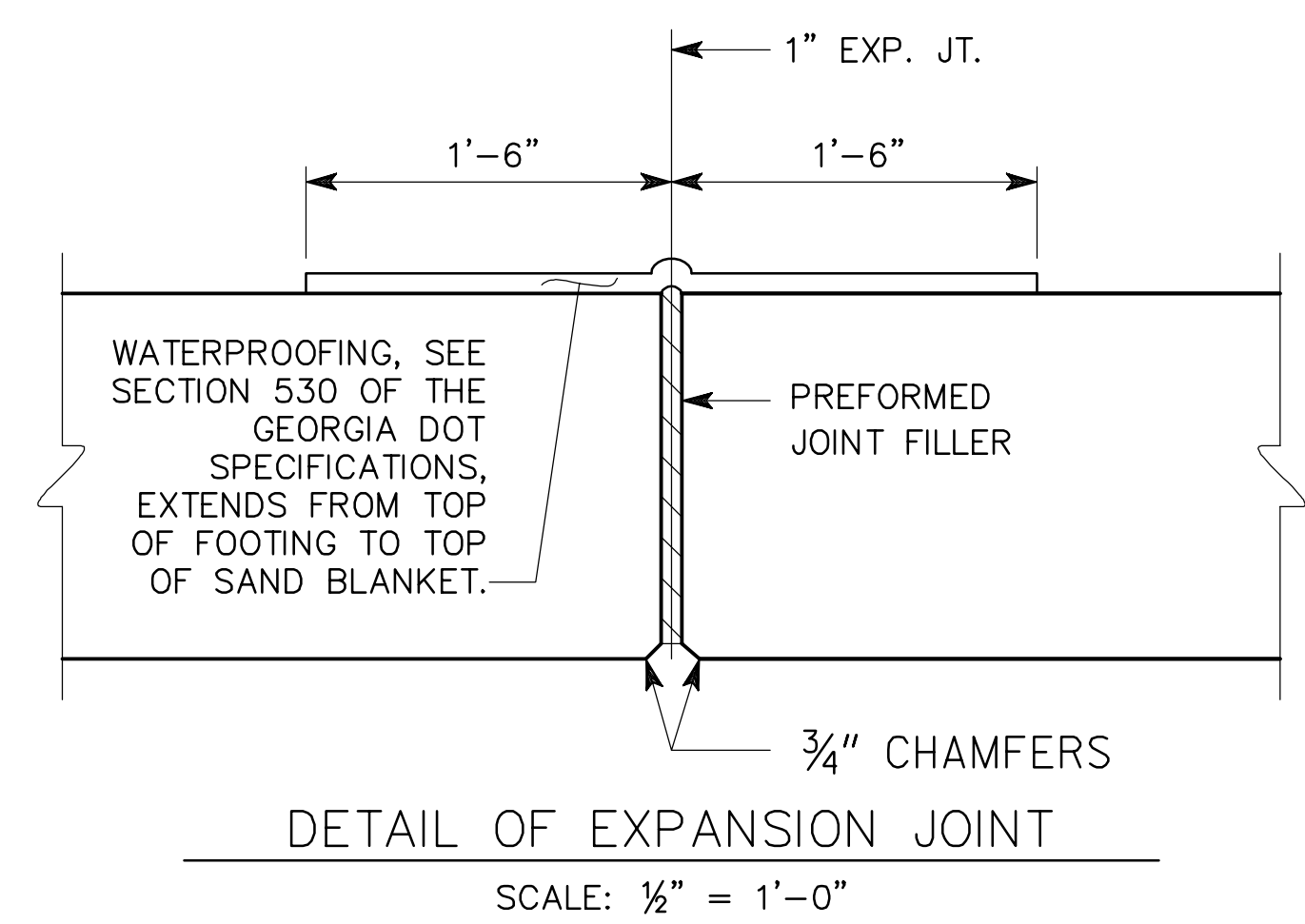
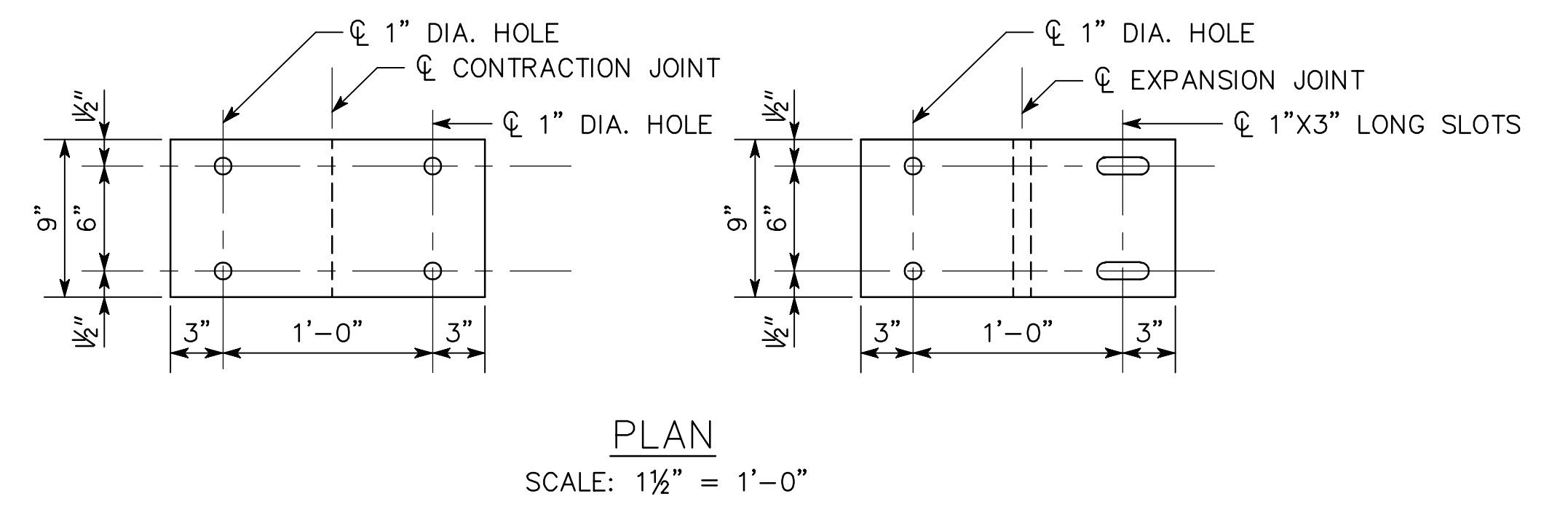
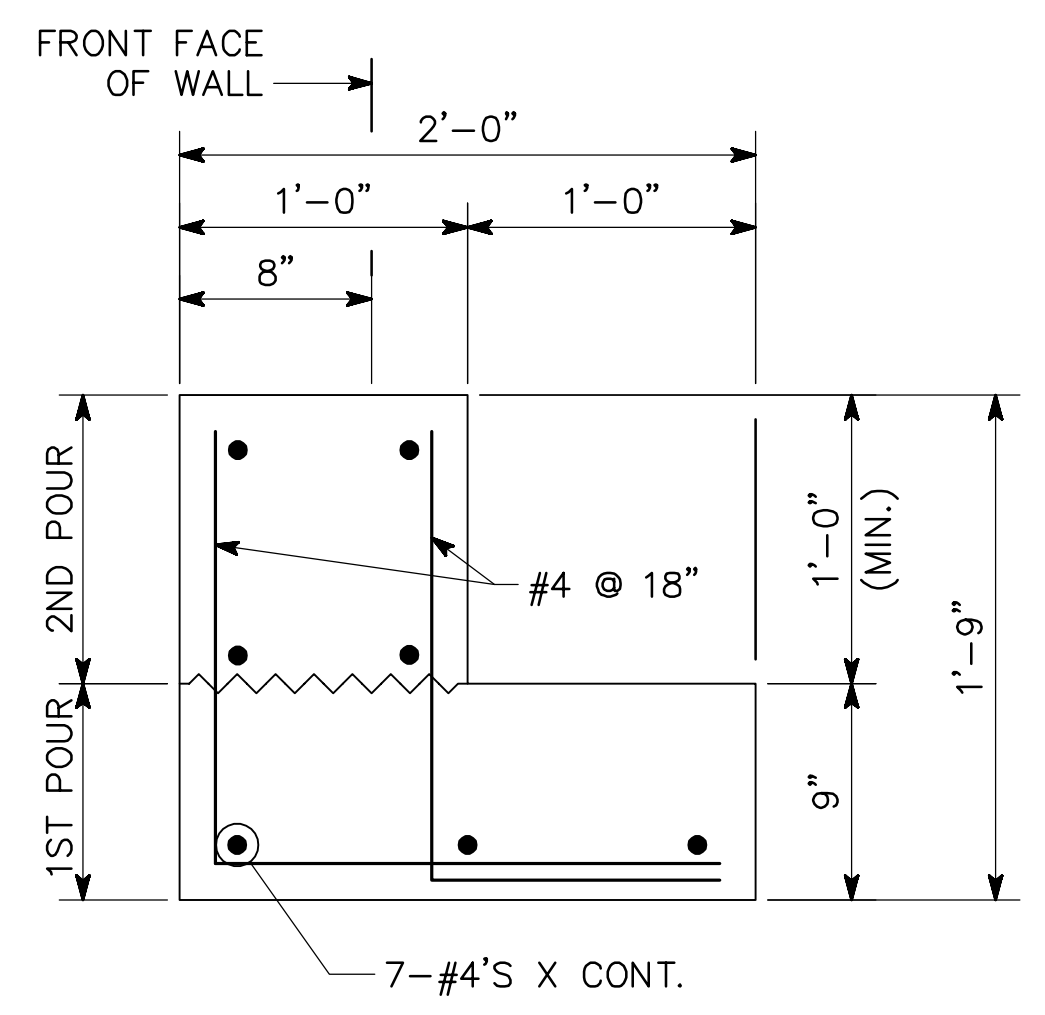
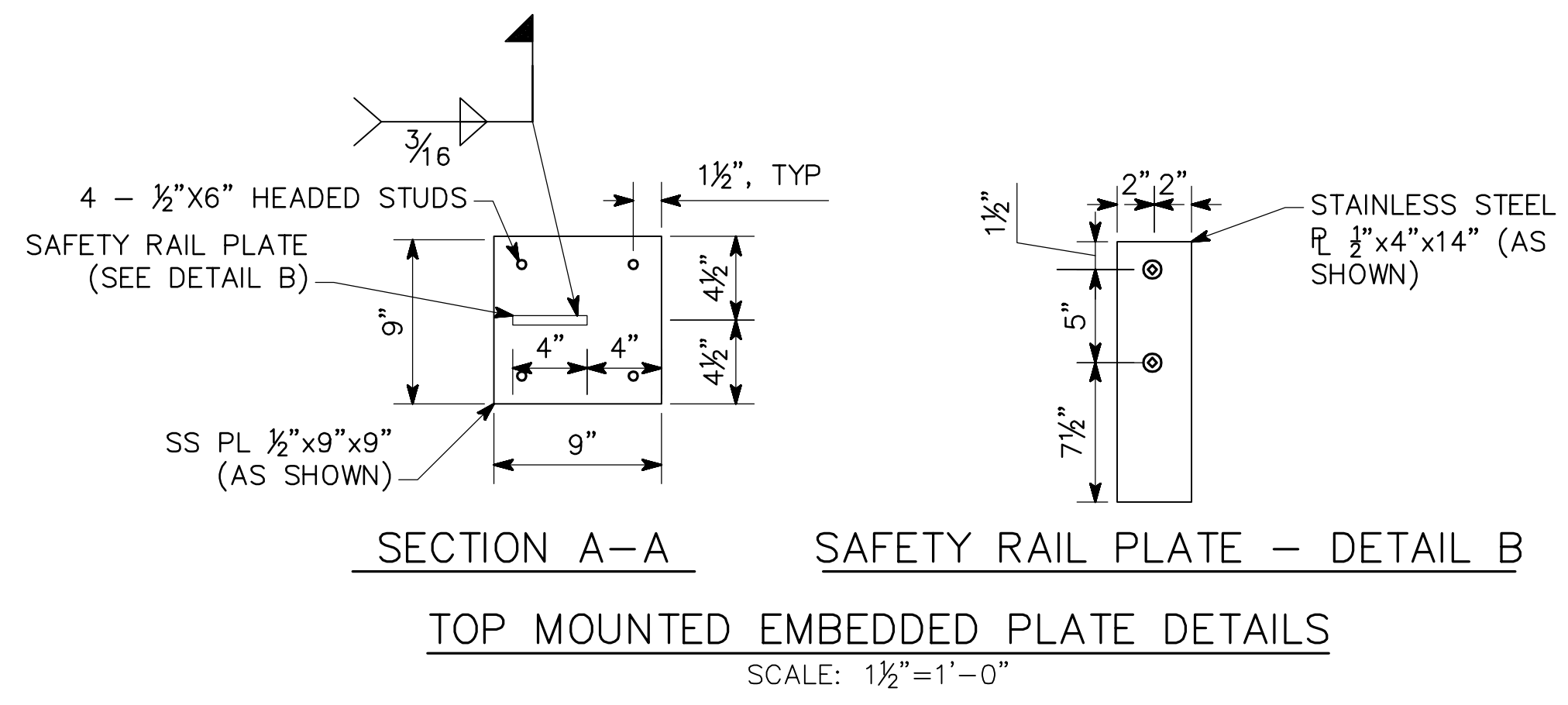
OCTOBER 2021



REVISIONS	DATE

DRAWING NO. 32-0017
WALL SHEET 17 OF 18

DESIGNED: ASG	CHECKED: NMC	REVIEWED:
DRAWN: ASG	DESIGN GROUP:	APPROVED:



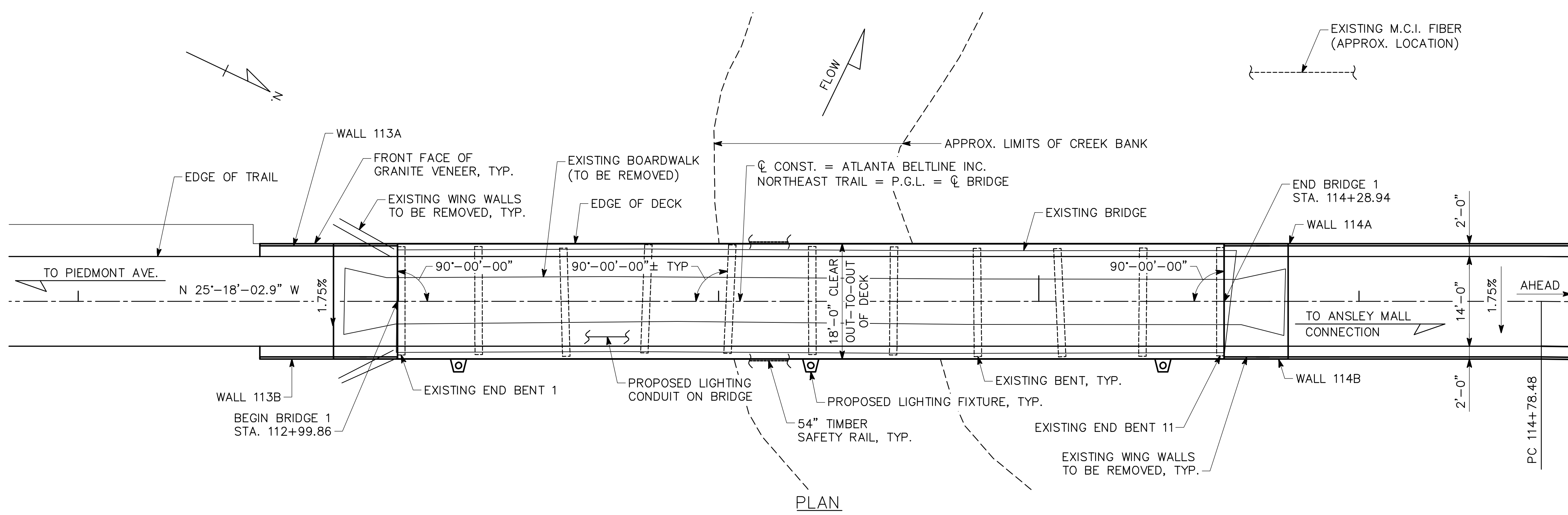
DATE	REVISIONS

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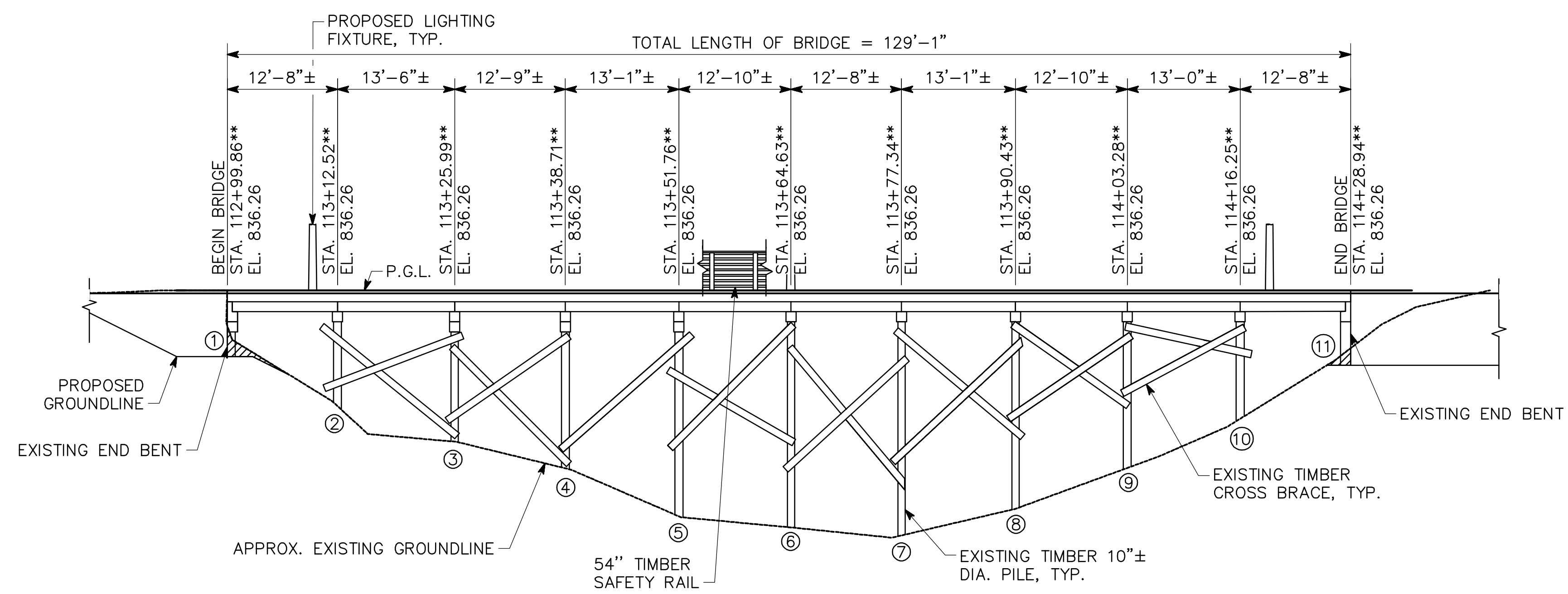
ATLANTA BELTLINE
 WALL DETAILS (4 OF 4)
 ATLANTA BELTLINE NORTHEAST TRAIL
 FULTON COUNTY
 SCALE: AS SHOWN-0" OCTOBER 2021
 DESIGNED ASG CHECKED NMC REVIEWED
 DRAWN XXX DESIGN GROUP APPROVED

DRAWING NO. 32-0018
WALL SHEET 18 OF 18

DATE: Oct 21, 2021 TIME: 1:48pm USER: kelly.glynn

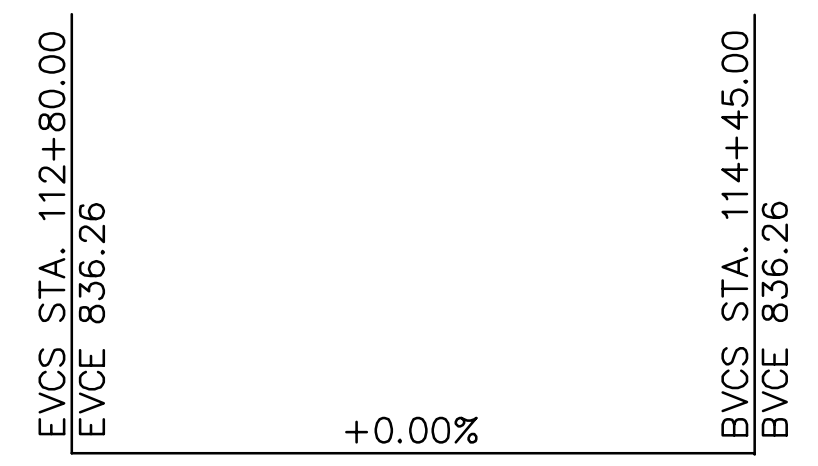


PLAN



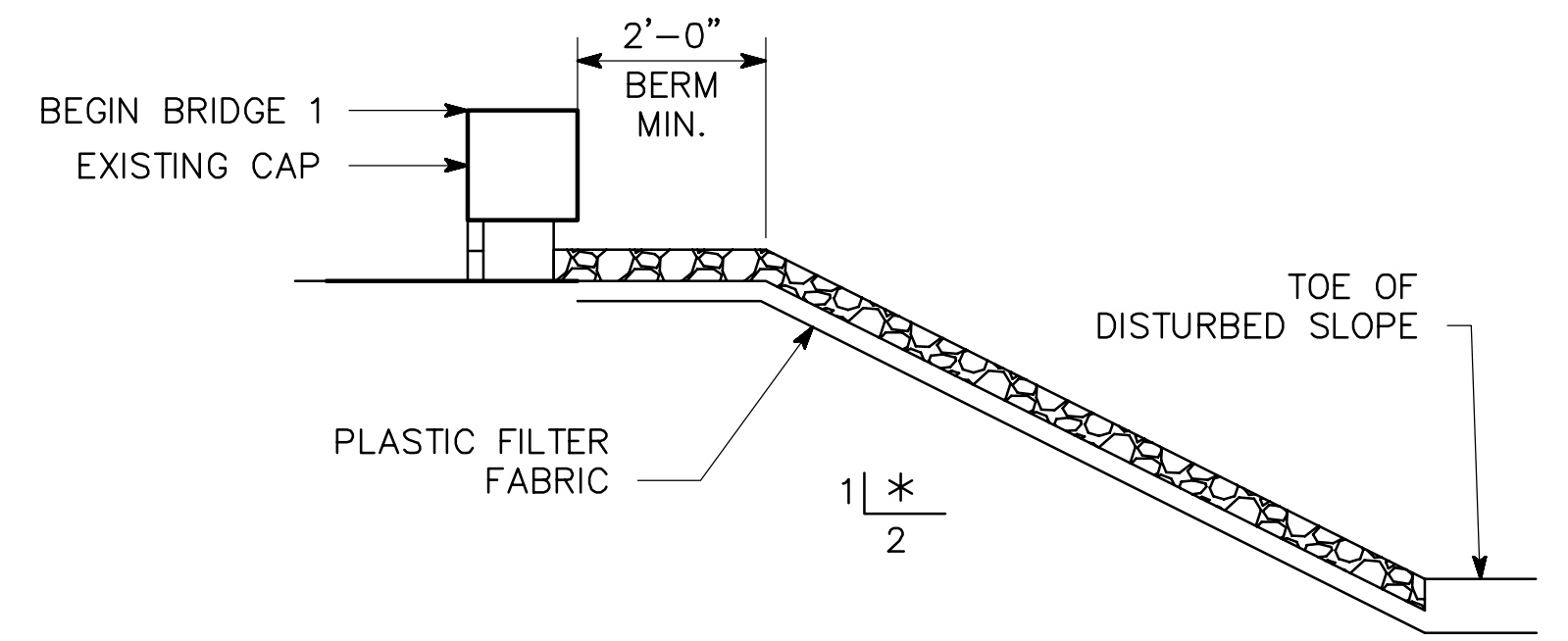
ELEVATION

EXISTING FILL TO BE REMOVED; TO BE PAID FOR AS PART OF "GRADING COMPLETE." SEE ROADWAY PLANS FOR DETAILS.



VERTICAL CURVE DATA

- NOTES:
1. END BENT PILES NOT SHOWN.
 2. ** STATIONS AND ELEVATIONS ARE AT INTERSECTION OF PROFILE GRADE LINE AND BEGIN/END BRIDGE OR ϕ BENT. STATIONS AT EXISTING ϕ BENT OR BEGIN/END BRIDGE ARE APPROXIMATE AND SHOULD BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION.



RIP RAP DETAIL

BRIDGE NO. 1

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ATLANTA BELTLINE

PLAN AND ELEVATION
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: 1" = 10'-0" OCTOBER 2021

DRAWING NO.
35-0001

BRIDGE SHEET
1 OF 9

REVISIONS	DATE

DESIGNED ASG	CHECKED NMC	REVIEWED
DRAWN ASG	DESIGN GROUP	APPROVED

1 INCH WHEN PRINTED FULL SIZE

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DATE: Oct 21, 2021 TIME: 11:39pm USER: kelly.glynn

BRIDGE CONSISTS OF

- 2 - TIMBER PILE END BENTS (EXISTING)
 - 9 - TIMBER PILE INTERMEDIATE BENTS (EXISTING)
 - 1 - CONTINUOUS CONCRETE DECK SPAN ----- SPECIAL DESIGN
 - 1 - 54" TIMBER SAFETY RAIL ----- SPECIAL DESIGN
 - BAR BENDING DETAILS -----GA. STD. 3901 (8-69)
 - TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)
- 24" TYPE III RIP RAP

UTILITIES

- 1" DIA. ELECTRIC CONDUIT-----ATLANTA BELTLINE INC
- 2" DIA. CAMERA FIBER CONDUIT-----ATLANTA BELTLINE INC

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2" MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

DIMENSIONS AND ELEVATIONS - VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

EXISTING RIP RAP - INCLUDE THE COST OF REMOVING, RELAYING, AND/OR REPLACING RIP RAP IN THE OVERALL BID SUBMITTED.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY GDOT CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODE FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE OWNER.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING AND BENDING OF EXISTING REINFORCEMENT, TIMBER HARDWARE, FASTENERS, WATERPROOFING, JOINT FILLERS, EXCAVATION, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

WOOD FRAMING:

- ALL TIMBER FOR STRUCTURE TIMBER REPAIRS SHALL BE PRESSURE TREATED SELECT STRUCTURAL GRADE SOUTHERN YELLOW PINE SURFACE DRY (S4S). TIMBER REPAIRS AND REPLACEMENT SHALL BE IN ACCORDANCE WITH GEORGIA DOT SPECIFICATION 502. TIMBER PRESERVATIVE TREATMENT SHALL BE CREOSOTE IN ACCORDANCE WITH GEORGIA DOT SPECIFICATION 863. ESTIMATED QUANTITY FOR TIMBER STRUCTURE REPAIRS IS 2.0 MBM FOR BID PURPOSES AND INCLUDED IN PAY ITEM "BRIDGE TIMBER, TREATED". HARDWARE AND FASTENERS ARE INCIDENTAL TO PAY ITEM "BRIDGE TIMBER, TREATED". OWNER'S ENGINEER TO INSPECT EXISTING TIMBER DECK UPON REMOVAL OF EXISTING BOARDWALK AND BALLAST. REMOVE AND REPLACE TIMBER DECK AS IDENTIFIED BY ENGINEER. TIMBER REPAIRS AND REPLACEMENT SHALL BE IN ACCORDANCE WITH GEORGIA DOT SPECIFICATION 502.
- ALL SAFETY RAIL TIMBER SHALL BE PRESSURE TREATED SELECT NUMBER 1 SOUTHERN PINE SURFACE DRY (S4S) WITH A MOISTURE CONTENT OF 19% OR LESS. HANDRAIL POSTS SHALL BE TREATED WITH A WATERBORNE PRESERVATIVE IN ACCORDANCE WITH AWWA STANDARD U1, COMMODITY SPECIFICATION A, TO THE REQUIREMENTS OF USE CATEGORY 4 (UC4A). HANDRAILS SHALL BE TREATED WITH A WATERBORNE PRESERVATIVE IN ACCORDANCE WITH AWWA STANDARD U1, COMMODITY SPECIFICATION A, TO THE REQUIREMENTS OF USE CATEGORY 3 (UC3B).KILN DRY HANDRAIL POST AND RAILING AFTER TREATMENT. PRESERVATIVES SHALL NOT CONTAIN ARSENIC OR CHROMIUM.
- ALL SAW CUTS, BOLT HOLES, AND OTHER HOLES SHALL BE TREATED WITH APPROPRIATE PRESERVATIVE SOLUTION PRIOR TO INSTALLING BOLTS.
- ALL BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS OTHERWISE NOTED. ALL BOLTED CONNECTIONS SHALL INCLUDE ROUND PLATE WASHERS (UNLESS OTHERWISE NOTED) INSTALLED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT. ALL BOLTS, WASHERS, AND NUTS SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED.
- STEEL PLATES FOR SAFETY RAIL POST CONNECTION SHALL BE GALVANIZED ASTM A36.
- ALL SCREWS SHALL BE STAINLESS STEEL WOOD SCREWS.
- ALL VERTICAL MEMBERS SHALL BE PLUMB.

DESIGN DATA

SPECIFICATIONS-----AASHTO LRFD 7TH EDITION, WITH 2016 INTERIM REVISIONS
AASHTO LRFD GUIDE FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, 2009
(SEISMIC PERFORMANCE ZONE 1)

DESIGN VEHICLE LIVE LOAD----- H-10 MAINTENANCE VEHICLE

DESIGN PEDESTRIAN LIVE LOAD ----- 90 PSF

CONCRETE: SUPERSTRUCTURE AND APPROACH SLAB-----CLASS D, f'c = 4,000 PSI
DEAD MAN ANCHOR-----CLASS A, f'c = 3,000 PSI

REINFORCEMENT STEEL ----- GRADE 60, fy = 60,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO-1 (93)
500-3101	21	CY	CLASS A CONCRETE
502-1200	5.0	MBM	BRIDGE TIMBER, TREATED
511-1000	3040	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-1 (15,650)
540-1202	LUMP	LS	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO-1
603-2182	160	SY	STN DUMPED RIP RAP, TP 3, 24 IN
603-7000	160	SY	PLASTIC FILTER FABRIC
999-XXXX	LUMP	LS	HELICAL PILE FOUNDATION

CONSTRUCTION SEQUENCE

- REMOVE EXISTING BOARDWALK AND EXISTING BALLAST.
 - REPAIR AND/OR REPLACE TIMBER BRACING AND CONNECTIONS.
 - ENGINEER TO INSPECT EXISTING DECK. REPLACE TIMBER DECK AS IDENTIFIED BY ENGINEER.
 - INSTALL EXISTING END BENT IMPROVEMENTS.
 - COMPLETE SUPERSTRUCTURE.
- THE AFOREMENTIONED SEQUENCE SHALL BE COORDINATED WITH OTHER PROJECT OPERATIONS, SEE ROADWAY PLANS. IN LIEU OF THE ABOVE CONSTRUCTION SEQUENCE, THE CONTRACTOR MAY SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR APPROVAL.

BRIDGE NO. 1

Kimley»Horn

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ATLANTA BELTLINE

GENERAL NOTES
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

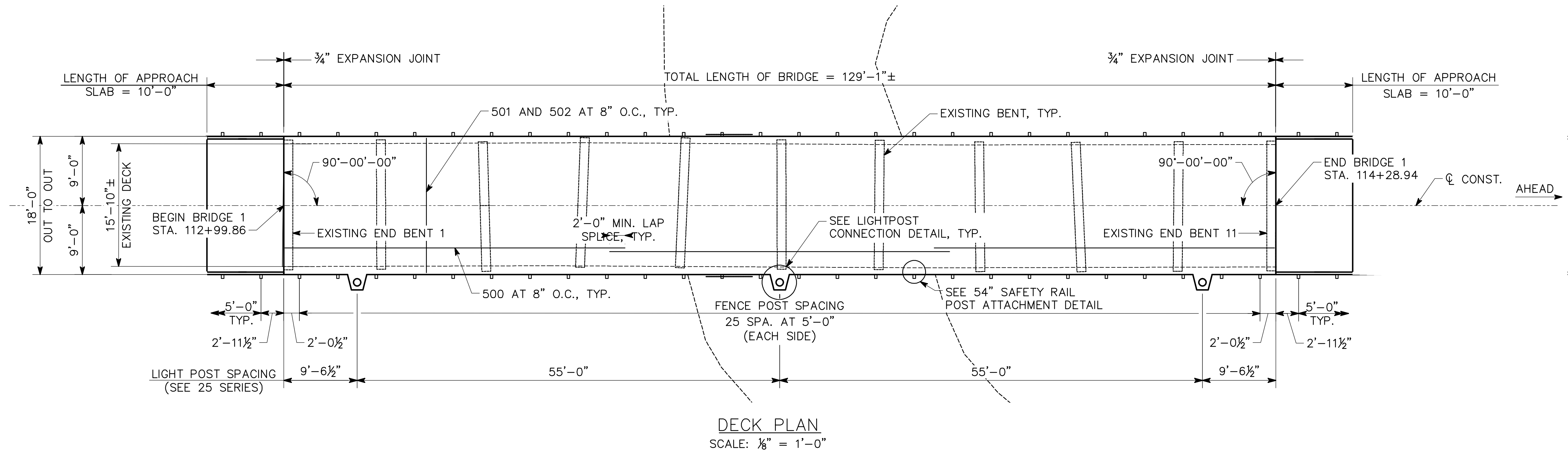
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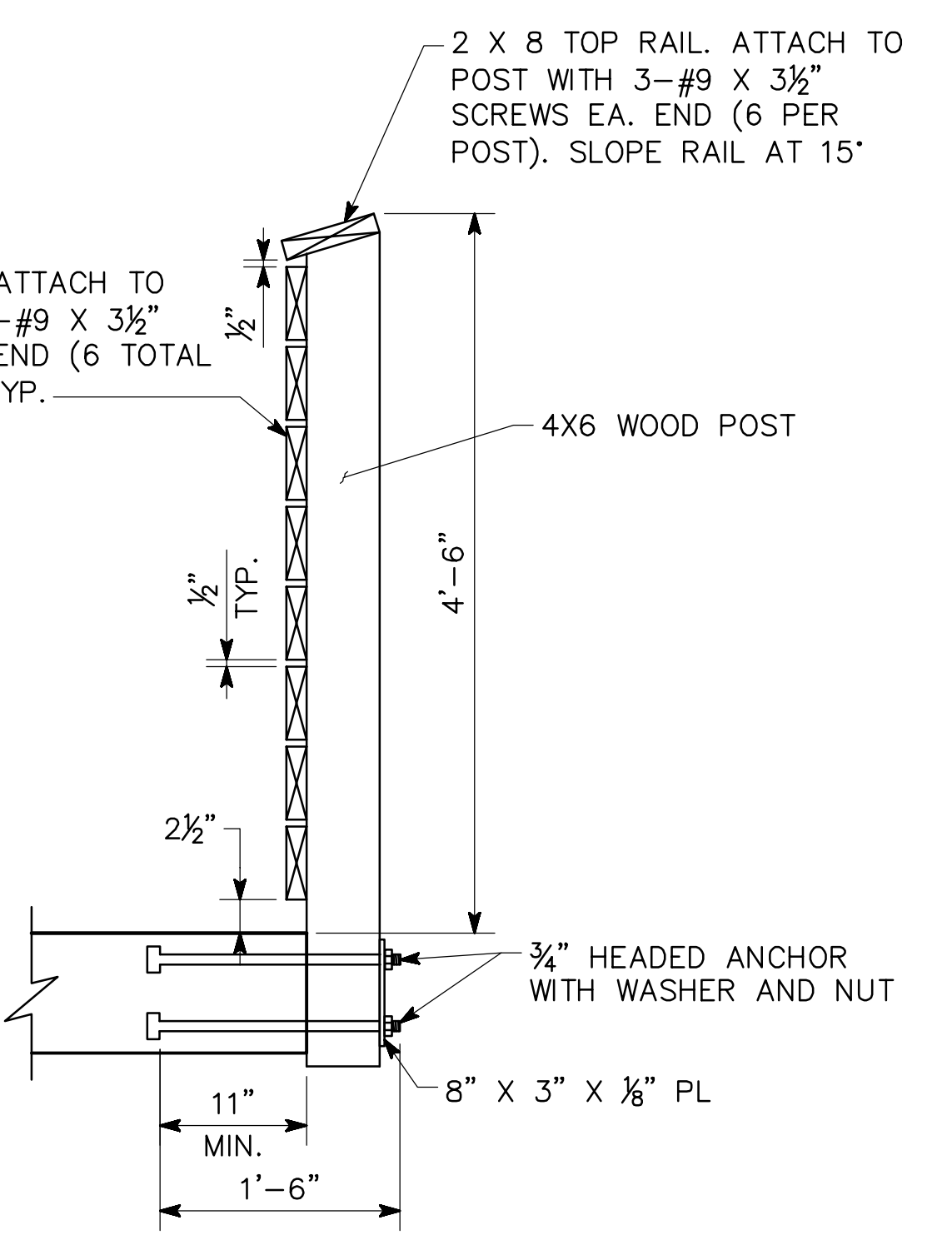
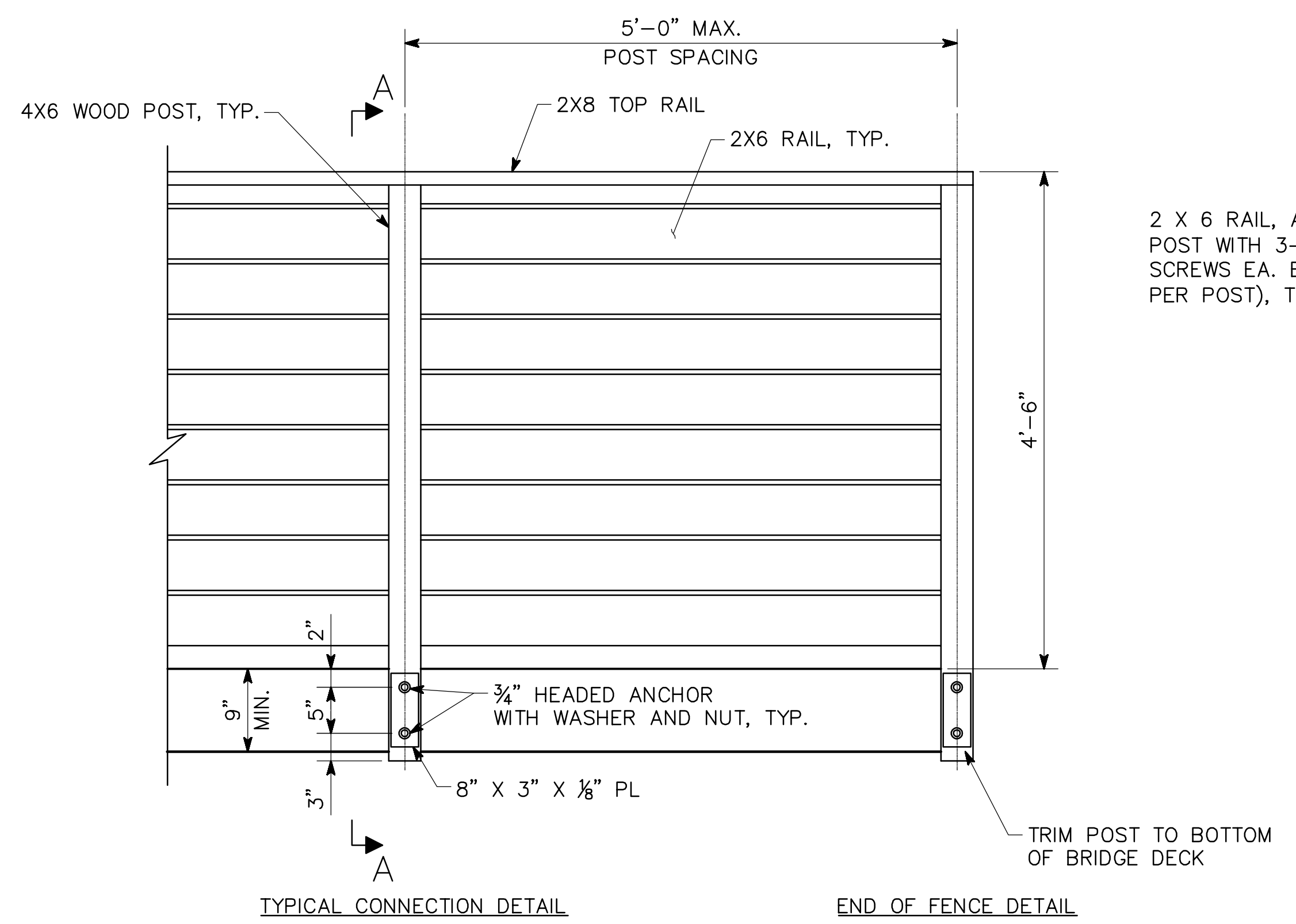
BRIDGE SHEET 2 OF 9

DATE	
REVISIONS	
BY	

DESIGNED ASG	CHECKED NMC	REVIEWED
DRAWN ASG	DESIGN GROUP	APPROVED



- NOTES:**
- EQUALLY SPACE CONTROL JOINTS AT 10'-0"± OVER LENGTH OF BRIDGE.
 - CONSTRUCTION JOINTS SHALL BE PLACED AT CONTROL JOINTS, AS REQUIRED.
 - BRIDGE DECK CONCRETE SHALL BE INSTALLED WITH SPECIAL CONCRETE FINISH TO MATCH THE MAIN TRAIL (SEE 38-SERIES). USE 1/4" DEEP SAW CUT FOR CONSTRUCTION JOINTS ON BRIDGE DECK AND APPROACH SLABS.



TIMBER RAILING ELEVATION
SCALE: 1" = 1'-0"

SECTION A-A
SCALE: 1" = 1'-0"

SUPERSTRUCTURE QUANTITIES	
ITEM	TOTAL
LUMP - CY SUPERSTR CONCRETE, CL D, BR NO-1	85
LUMP - LBS SUPERSTR REINF STEEL	15,450
MBM BRIDGE TIMBER, TREATED	3.0

BRIDGE NO. 1

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ATLANTA BELTLINE

DECK PLAN
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: AS NOTED OCTOBER 2021

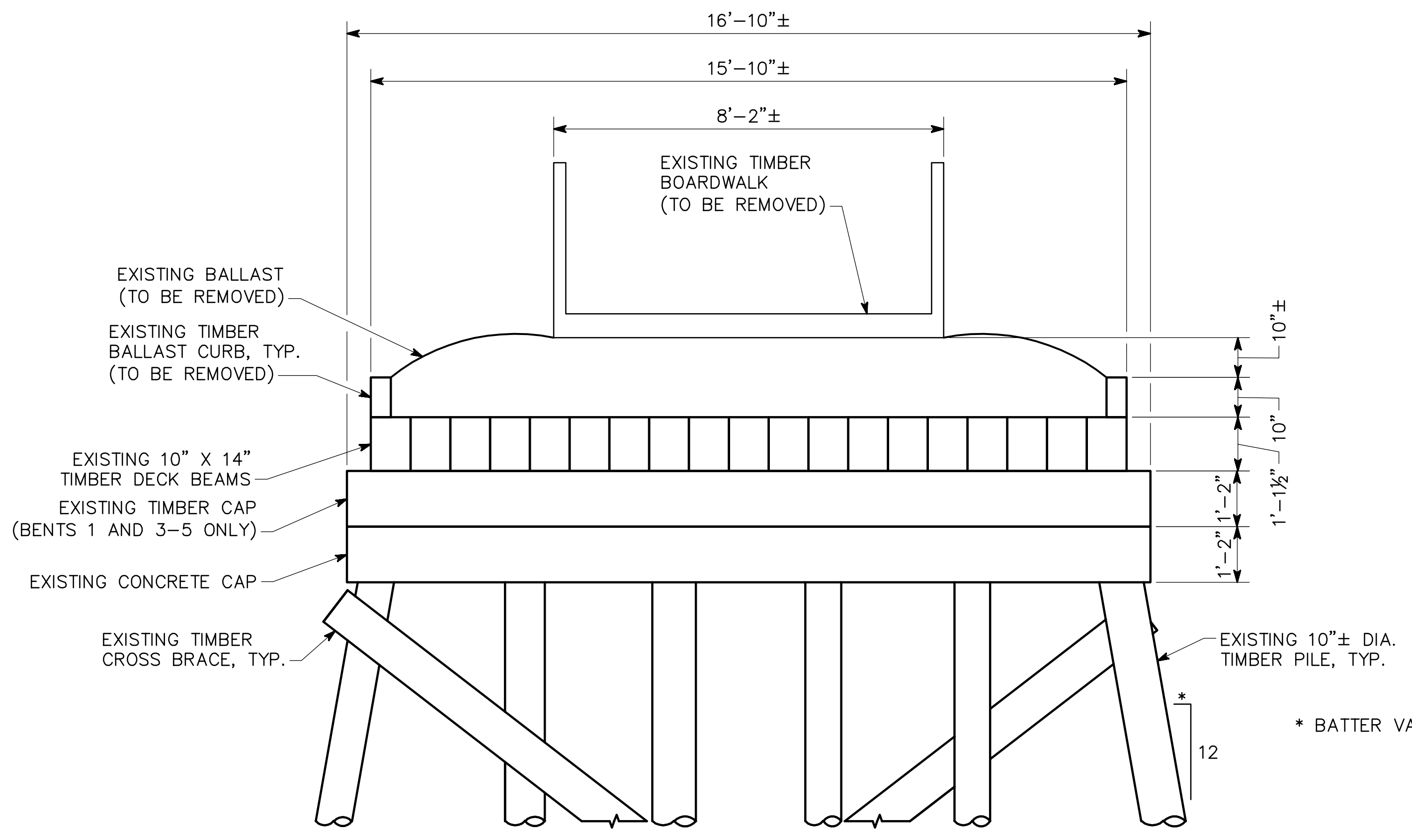
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DRAWN ASG DESIGN GROUP _____ APPROVED _____

DATE	REVISIONS	BY

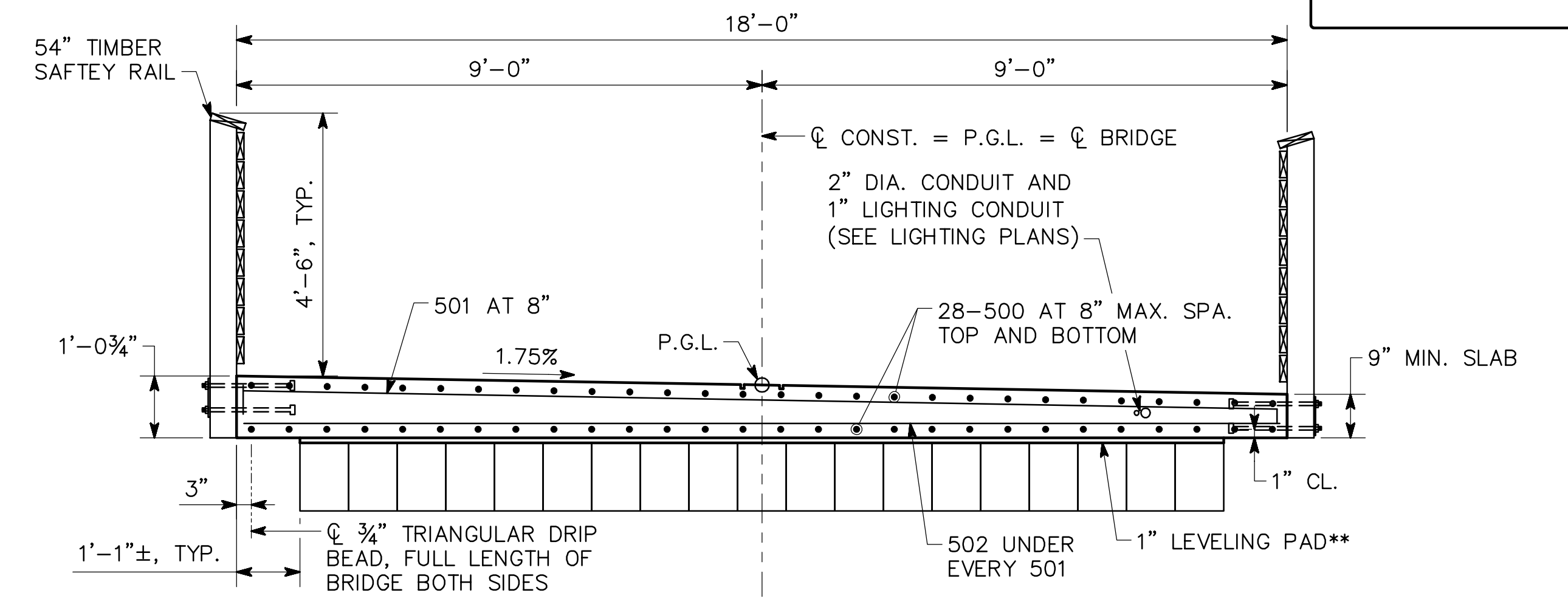
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35-0003

BRIDGE SHEET
3 OF 9

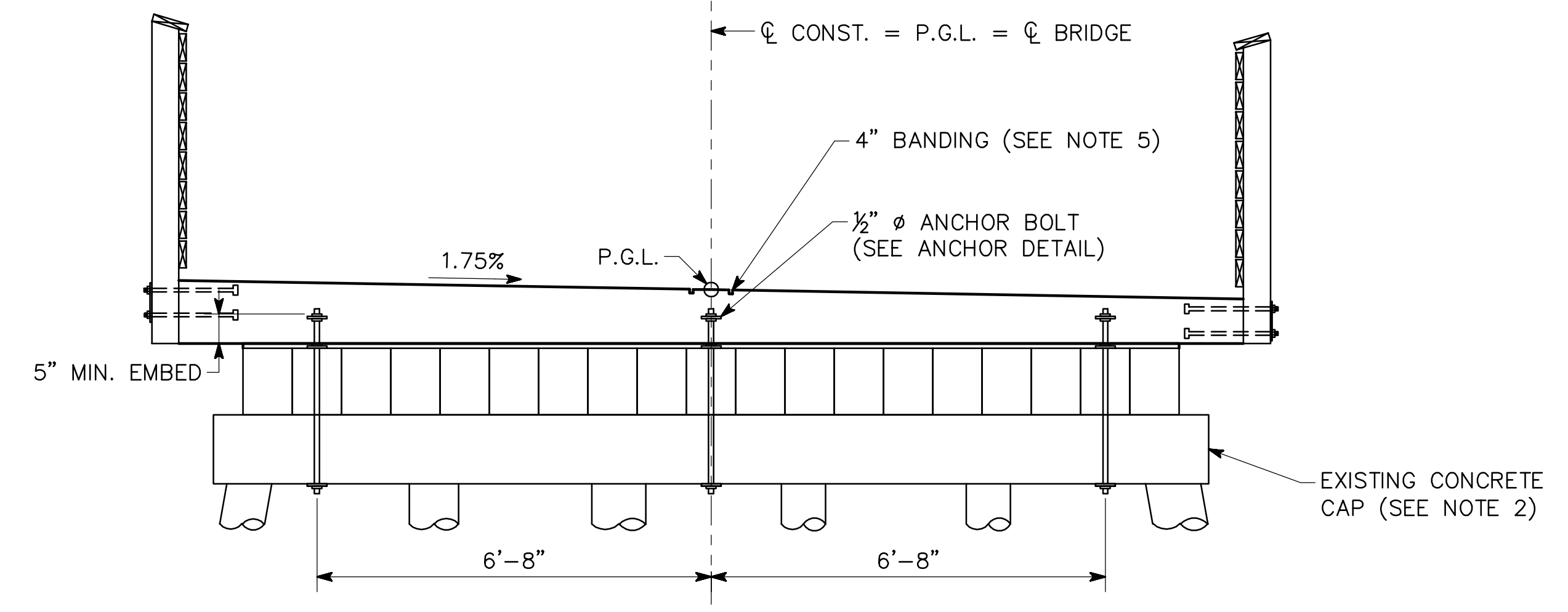
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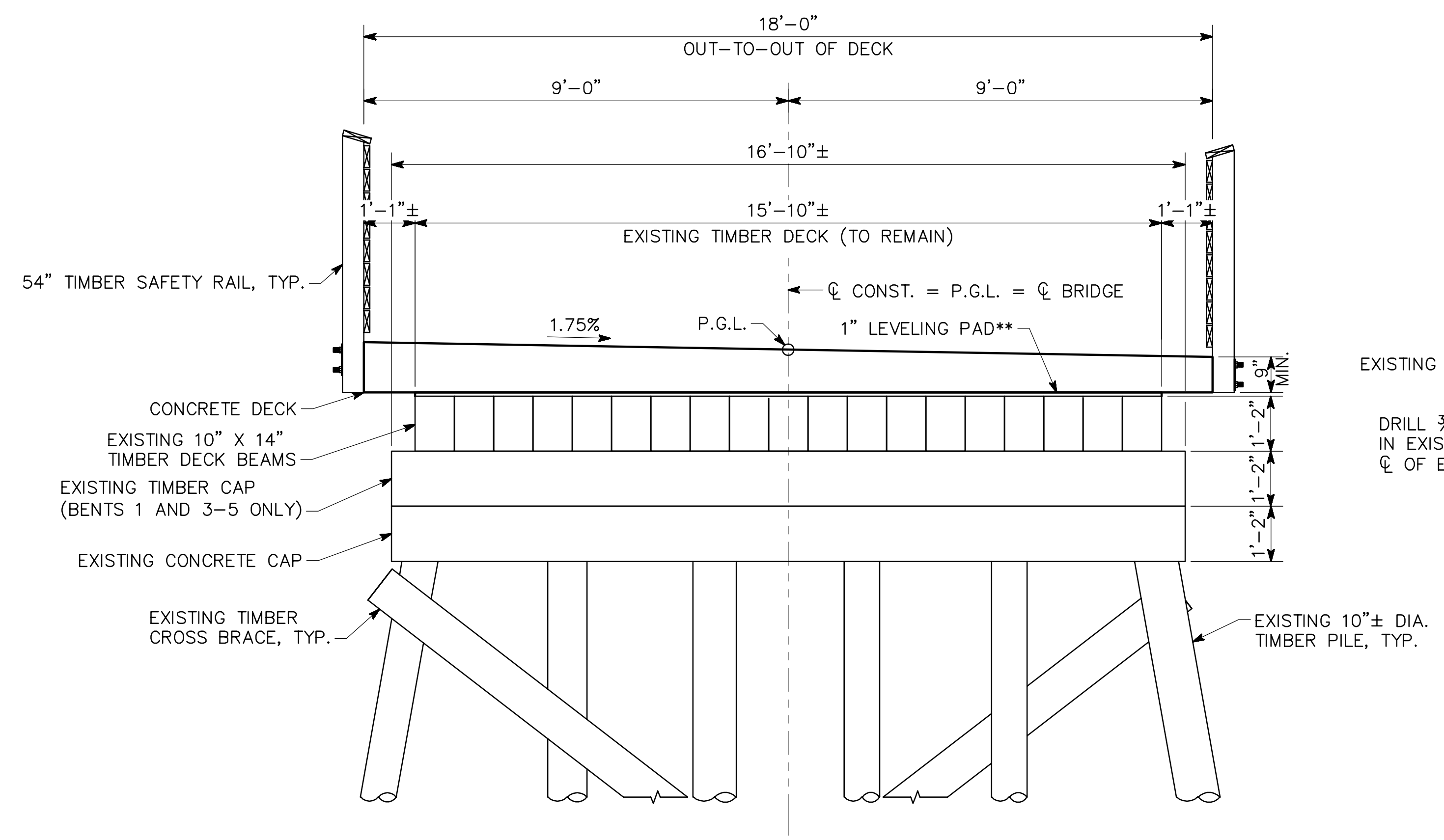
EXISTING TYPICAL SECTION (LOOKING AHEAD)



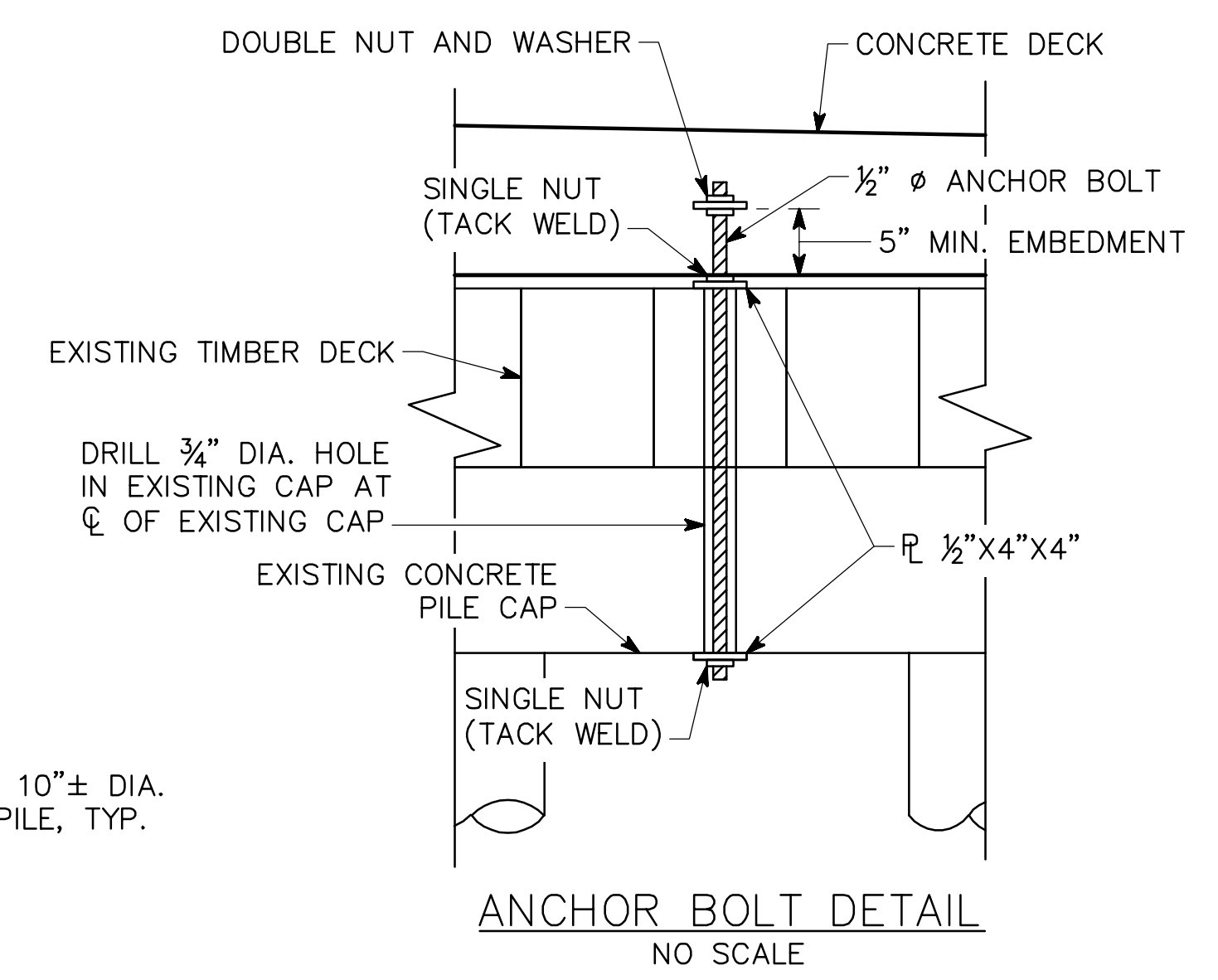
SECTION THRU SLAB (LOOKING AHEAD)



TYPICAL SECTION AT BENTS (LOOKING AHEAD)



PROPOSED TYPICAL SECTION (LOOKING AHEAD)



NOTES:

- ** 1" LEVELING PAD PROVIDED TO ACCOMMODATE UNEVEN SURFACE OF EXISTING TIMBER DECK. CONTRACTOR MAY USE SELF-LEVELING GROUT OR FORM AND POUR MONOLITHICALLY WITH DECK SLAB.
- ANCHOR BOLTS SHALL ALSO EXTEND THROUGH EXISTING TIMBER CAPS AT BENTS 1, AND 3-5.
- PROVIDE EXPANSION JOINT FOR 1" LIGHTING CONDUIT AT BRIDGE EXPANSION JOINTS.
- ALL ANCHOR BOLTS, AND ASSOCIATED NUTS AND WASHERS, SHALL CONFORM TO AASHTO M314, GRADE 55 AND HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.
- BRIDGE DECK CONCRETE SHALL BE INSTALLED WITH SPECIAL CONCRETE FINISH TO MATCH THE MAIN TRAIL (SEE 38-SERIES). USE 1/4" DEEP SAW CUT FOR BANDING ON BRIDGE DECK AND APPROACH SLABS.

BRIDGE NO. 1

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ATLANTA BELTLINE

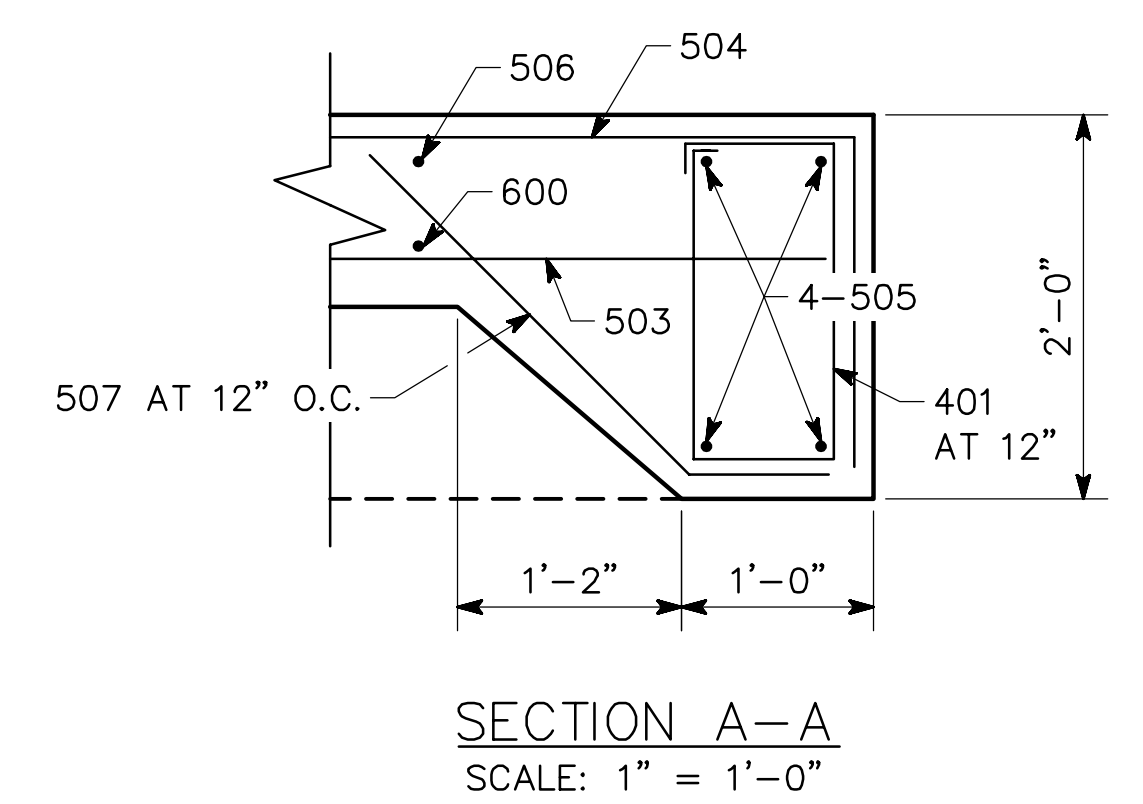
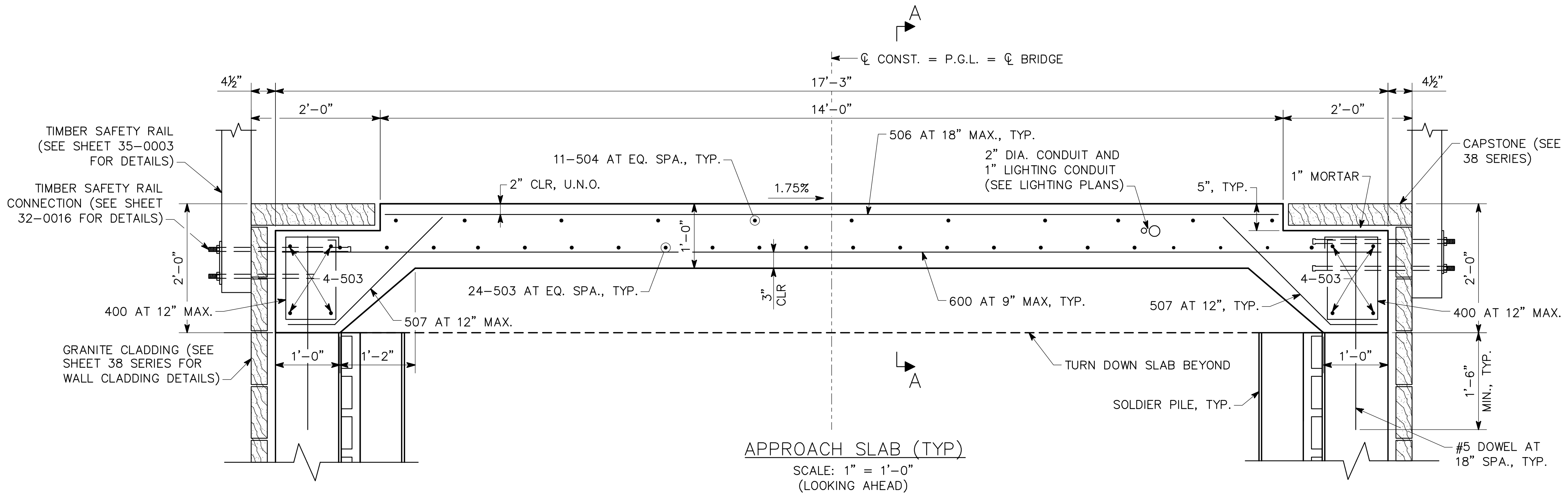
DECK SECTION
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: 1/2" = 1'-0" OCTOBER 2021

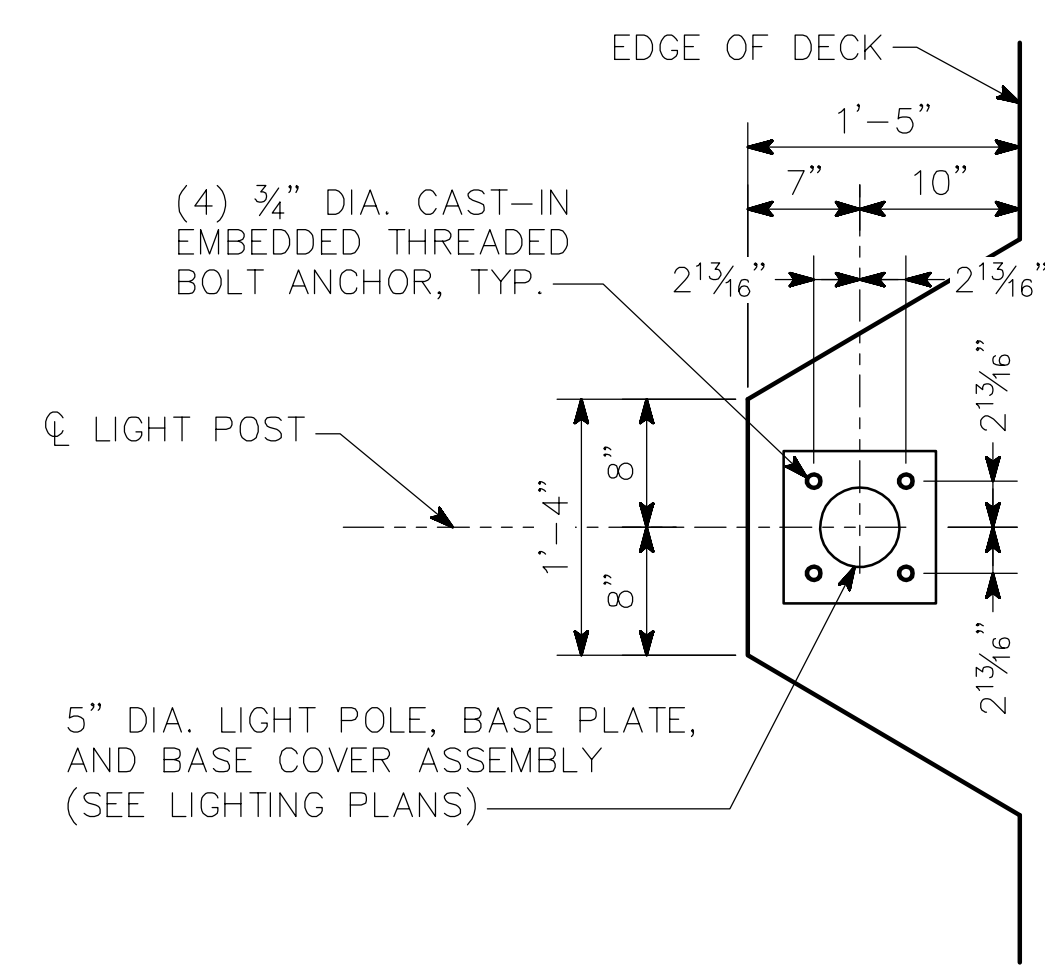
DRAWING NO.
35-0004
BRIDGE SHEET
4 OF 9

DATE	REVISIONS	BY

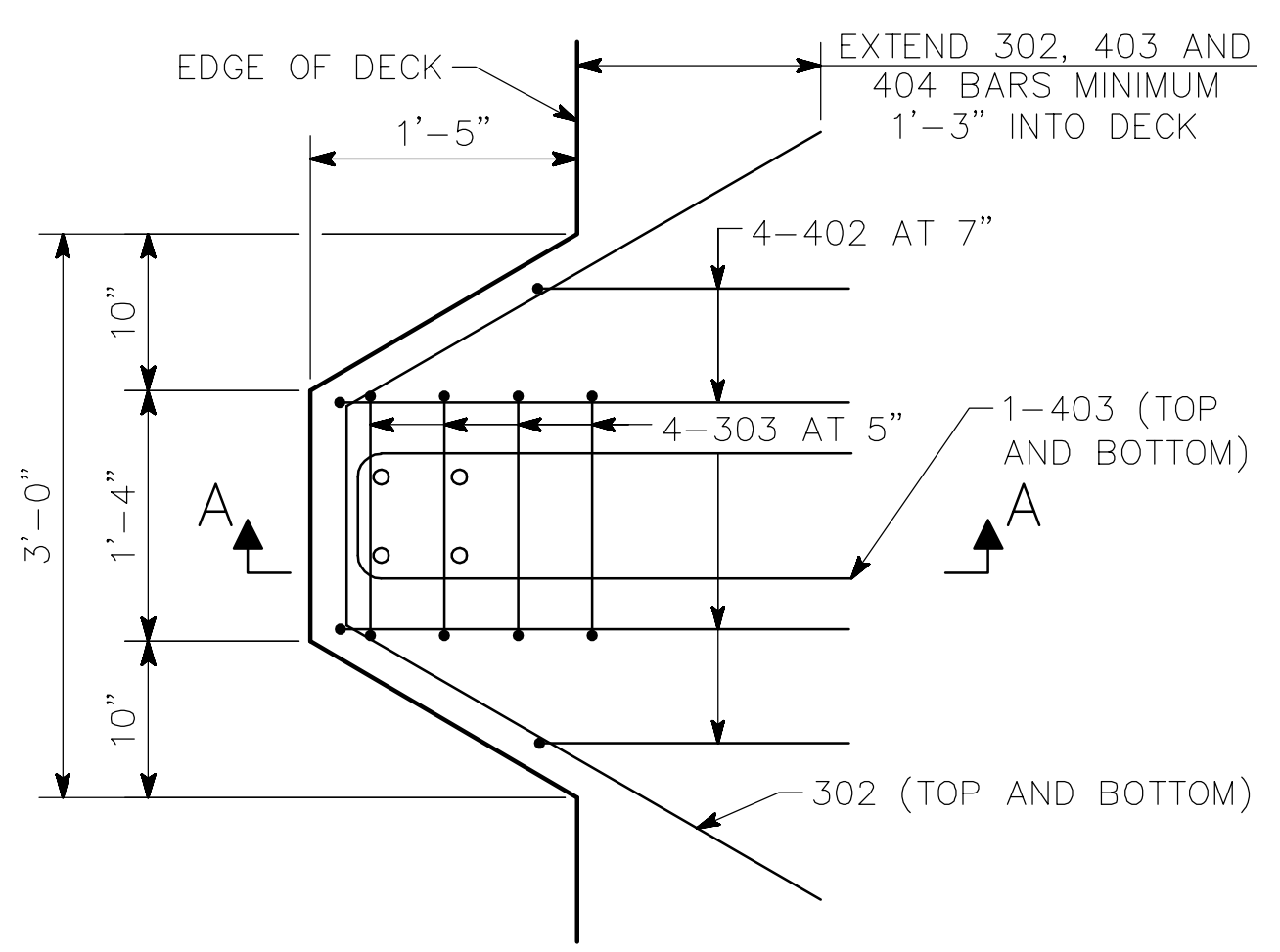
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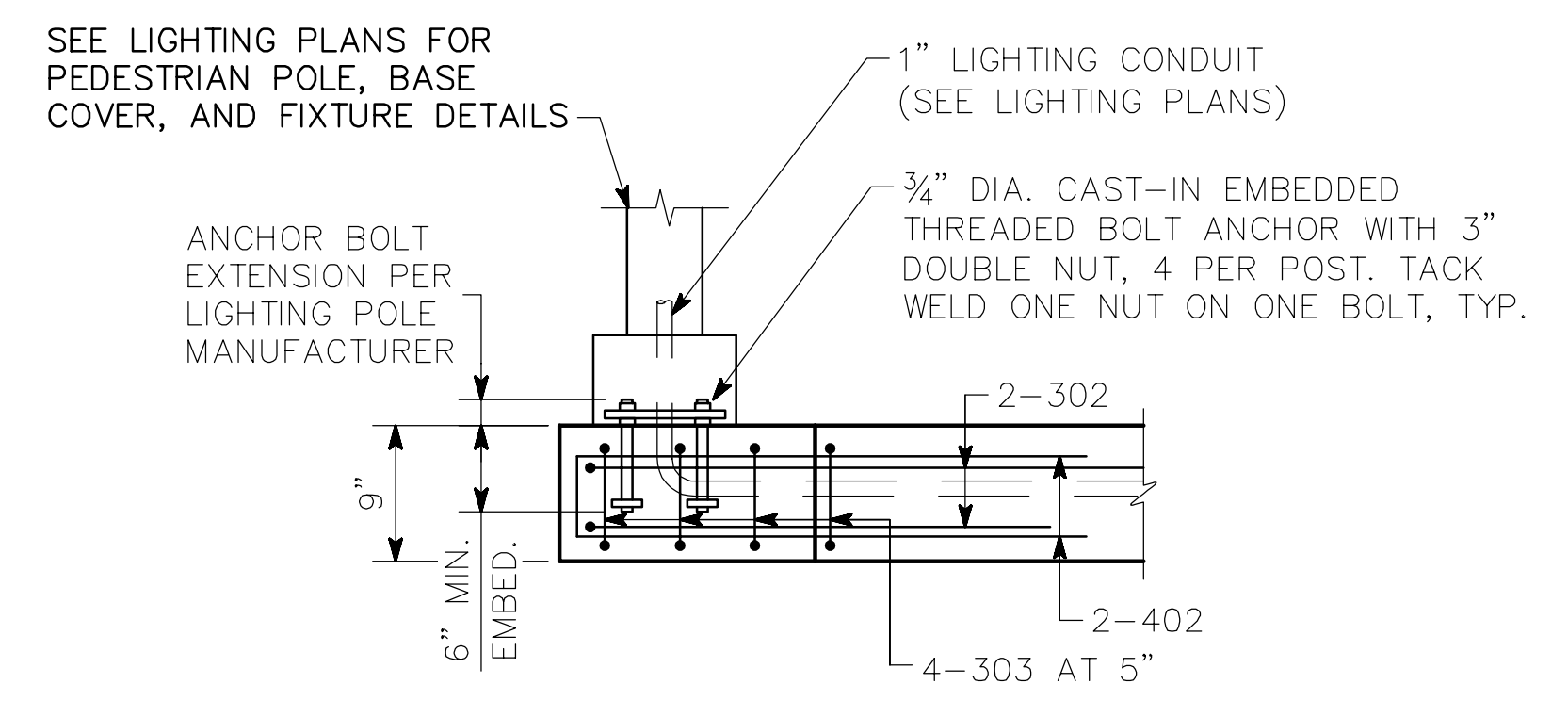
APPROACH SLAB (TYP)
 SCALE: 1" = 1'-0"
 (LOOKING AHEAD)



LIGHTPOST CONNECTION DETAIL
 SCALE: 1" = 1'-0"



LIGHTPOST REINFORCING DETAIL
 SCALE: 1" = 1'-0"



SECTION A-A
 NO SCALE

- NOTES:**
1. ALL ANCHOR BOLTS, AND ASSOCIATED NUTS AND WASHERS, SHALL CONFORM TO AASHTO M314, GRADE 55 AND HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 123.
 2. ALL STAINLESS STEEL SHALL CONFORM TO ASTM A666, TYPE 316.
 3. ANCHOR BOLT LAYOUT FOR LIGHT POST SHALL BE VERIFIED WITH LIGHT POST MANUFACTURER.

APPROACH SLAB QUANTITIES	
ITEM	TOTAL
LUMP - CY SUPERSTR CONCRETE, CL D	21
LBS BAR REINFORCING STEEL	2,745

BRIDGE NO. 1

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ATLANTA BELTLINE

MISC. SUPERSTRUCTURE DETAILS
 ATLANTA BELTLINE NORTHEAST TRAIL
 OVER CLEAR CREEK
 FULTON COUNTY

SCALE: _____ OCTOBER 2021

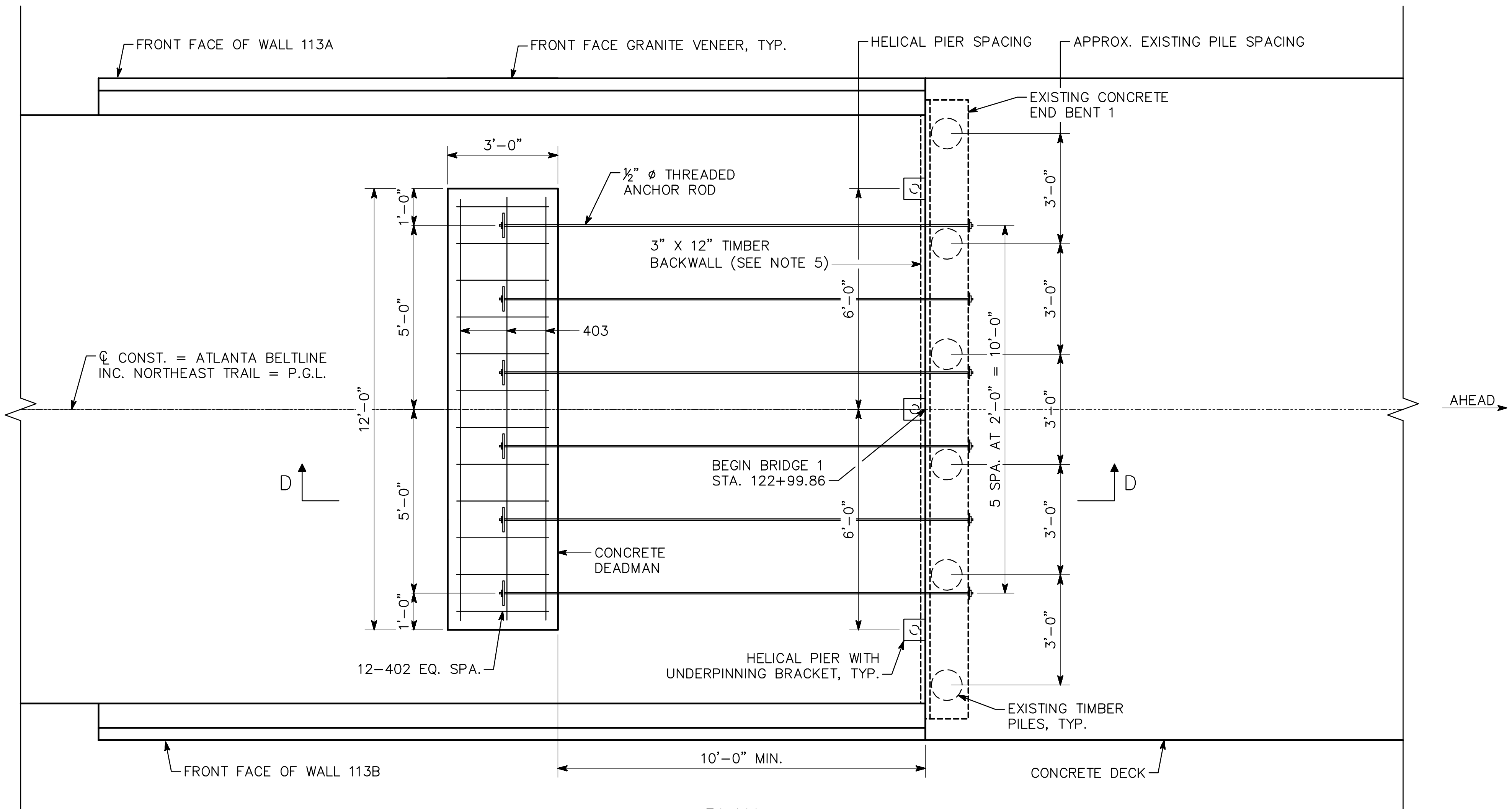
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BRIDGE SHEET 5 OF 9	REVISIONS
BY	

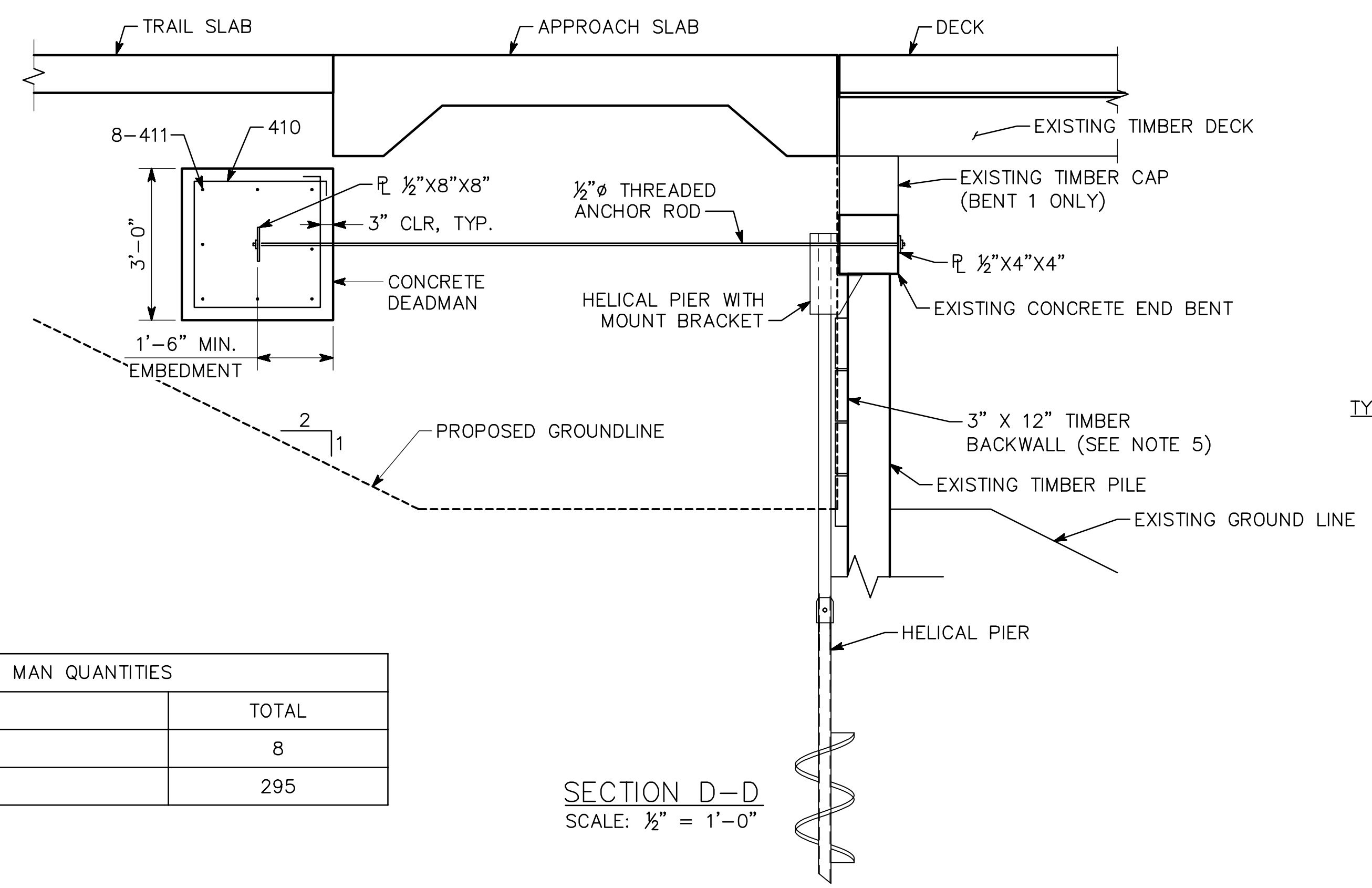
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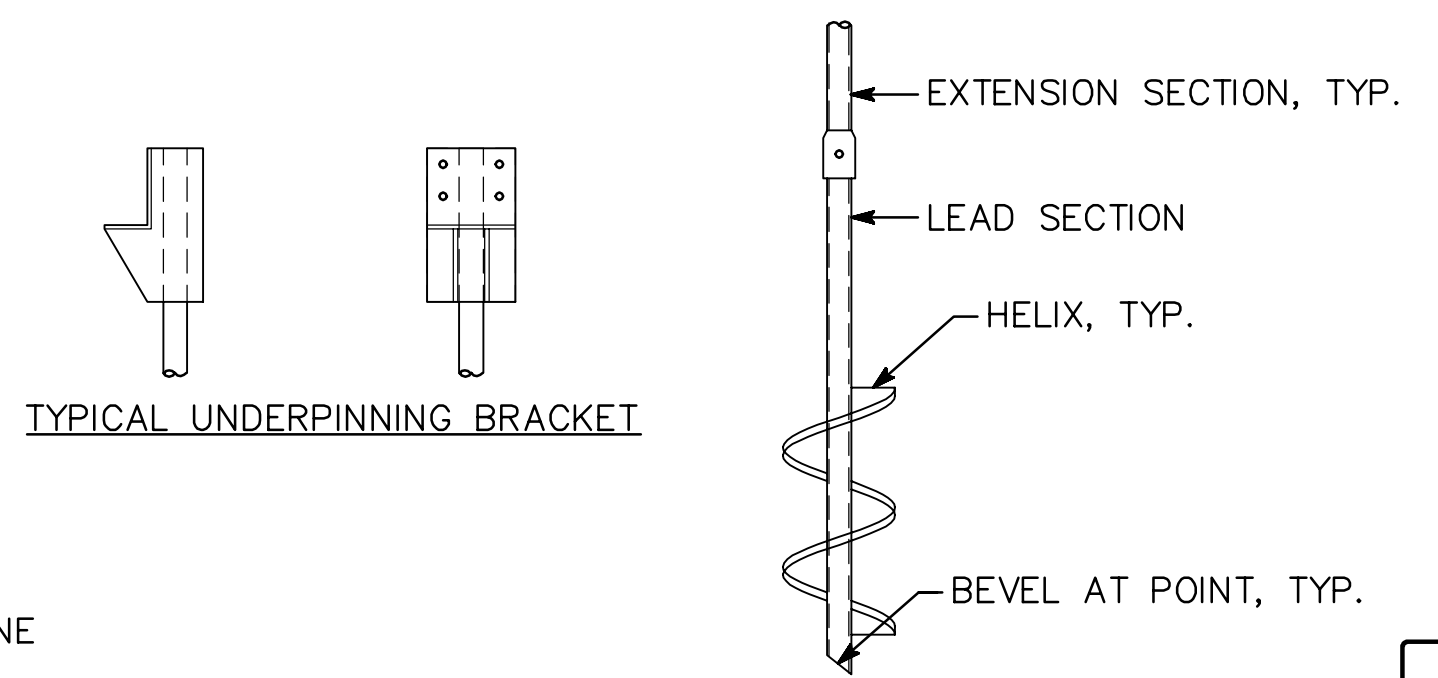


PLAN
(BENT 1 SHOWN, BENT 11 SIMILAR)
SCALE: 1/4" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"

CONCRETE DEAD MAN QUANTITIES	
ITEM	TOTAL
CY CLASS A CONCRETE	8
LBS BAR REINFORCING STEEL	295



TYPICAL HELICAL PIER DETAILS
SCALE: NO SCALE

NOTES:

1. THE HELICAL PIERS SHALL BE DELEGATED DESIGN DESIGN WITH THE CONTRACTOR PROVIDING FINAL DESIGN, MATERIALS, INSTALLATION REQUIREMENTS, FIELD LOAD-TESTING AND FIELD INSTALLATION. THE INFORMATION CONTAINED HEREIN SHALL BE CONSIDERED MINIMUM PERFORMANCE REQUIREMENTS.
2. A HELICAL PIER SUBMITTAL ILLUSTRATING CONSTRUCTION DETAILS AND SHOWING DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN GEORGIA.
3. A MINIMUM OF (1) LOAD-TEST SHALL BE CONDUCTED ON SITE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATION TO THE GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, EXECUTION, MONITORING AND DOCUMENTATION ASSOCIATED WITH THE LOAD TEST. THE SPECIAL INSPECTOR SHALL BE PRESENT DURING THE TESTING TO WITNESS THE TESTING AND PROVIDE INDEPENDENT DOCUMENTATION OF THE TESTING PROCEDURES AND RESULTS. THE CONTRACTOR SHALL SUBMIT THE TESTING PROCEDURE AND EQUIPMENT CALIBRATIONS TO THE GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER FOR REVIEW. THE CONTRACTOR SHALL SUBMIT A FINAL REPORT TO THE ENGINEER PRIOR TO BEGINNING PRODUCTION PILES FOR PROJECT RECORD. THE DELEGATED DESIGN ENGINEER SHALL REVIEW THE RESULTS AND PROVIDE A SIGNED AND SEALED COVER LETTER CONFIRMING THE LOAD TEST SATISFIED THE ALLOWABLE CAPACITIES SPECIFIED HEREIN.
4. EXISTING INFORMATION PROVIDED FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR.
5. INSTALL 3" X 12" TIMBERS AS BACKWALL BETWEEN EXISTING PILES AND HELICAL PIERS. BACKWALL TIMBER LENGTHS SHALL BE CUT TO FIT SNUG BETWEEN ADJACENT PERMANENTLY ANCHORED WALLS.

MATERIAL SPECIFICATIONS

1. PIER SHAFT SHALL BE SQUARE AND SHALL CONFORM TO ASTM A500 FOR A MINIMUM YIELD STRENGTH EQUAL TO 50,000 PSI OR ASTM A513 TYPE 5 WITH A MINIMUM YIELD STRENGTH OF 70,000 PSI.
2. PIER SHAFT SHALL HAVE A MINIMUM SHAFT DIAMETER OF 1 1/2" BASED UPON PRELIMINARY ANALYSIS.
3. HARDWARE USED BETWEEN EXTENSIONS AND AT CAP ELEMENTS SHALL BE MINIMUM SAE J429 GRADE 8 NUTS AND BOLTS.
4. UNDERPINNING BRACKETS SHALL BE SIZED BY THE DELEGATED DESIGN ENGINEER TO PROVIDE THE NECESSARY HORIZONTAL BEARING SURFACE AND VERTICAL MOUNTING SURFACE TO FACILITATE TRANSFER OF THE ALLOWABLE PIER LOADS. WALL BRACKETS SHALL BE SIZED BY THE DELEGATED DESIGN ENGINEER TO PROVIDE THE NECESSARY VERTICAL TRANSFER OF FORCES BASED ON THE ALLOWABLE PIER LOADS. ALL EXISTING CONCRETE SHALL BE ASSUMED TO BE 3,000 PSI UNLESS NOTED OTHERWISE.
5. POST-INSTALLED CONNECTION HARDWARE FOR UNDERPINNING AND BRACKETS TO EXISTING CONCRETE FOUNDATIONS SHALL BE DESIGNED AND SPECIFIED BY THE DELEGATED DESIGNER.
6. ALL MATERIALS AND HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
7. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A572, GRADE 50.
8. THREADED ANCHOR ROD SHALL CONFORM TO AASHTO M314, GRADE 55.

PIER CAPACITIES - MINIMUM ALLOWABLE CAPACITIES

UNFACTORED (SERVICE) AXIAL COMPRESSION = 15 KIPS

BRIDGE NO. 1

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ATLANTA BELTLINE

END BENT DETAILS
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: AS NOTED

OCTOBER 2021

DRAWING NO.
35-0006
BRIDGE SHEET
6 OF 9

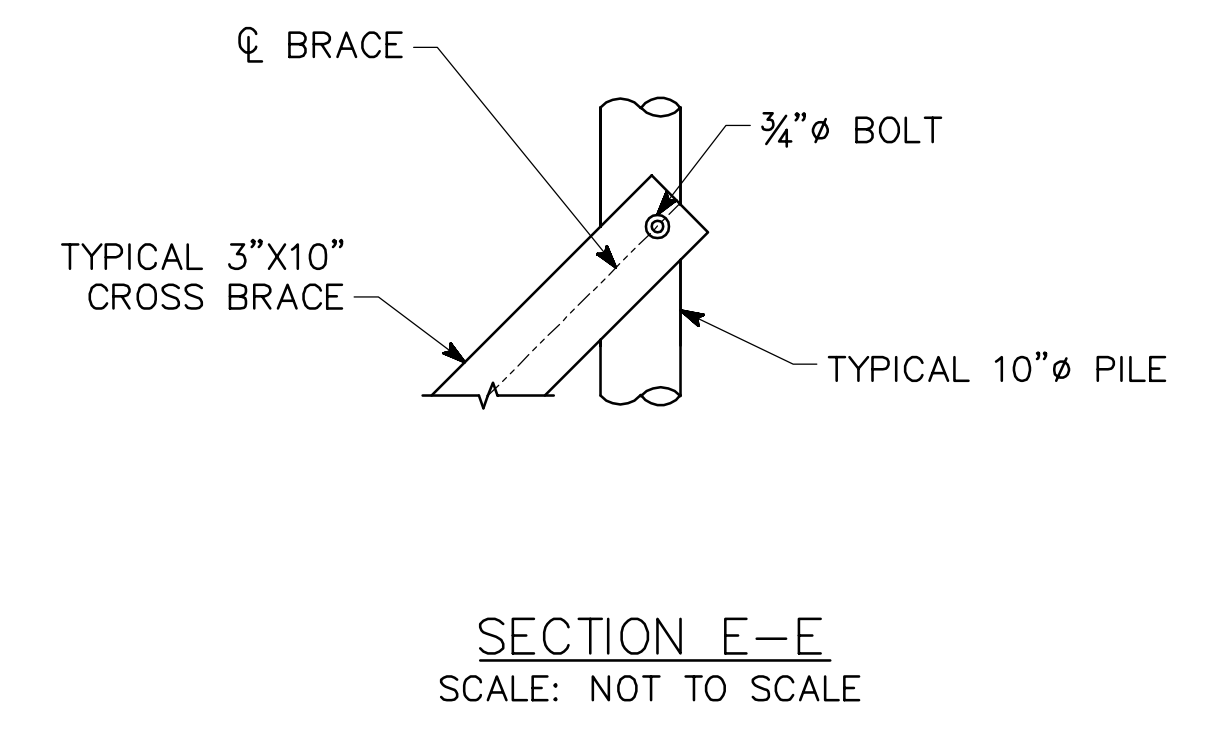
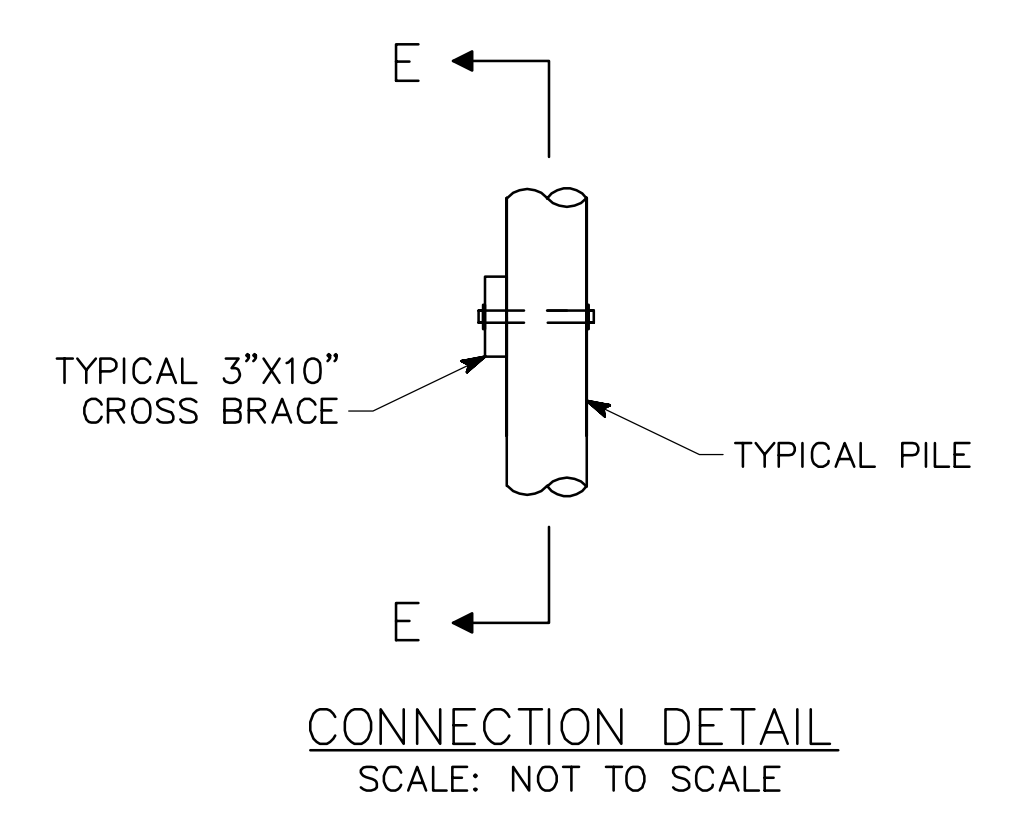
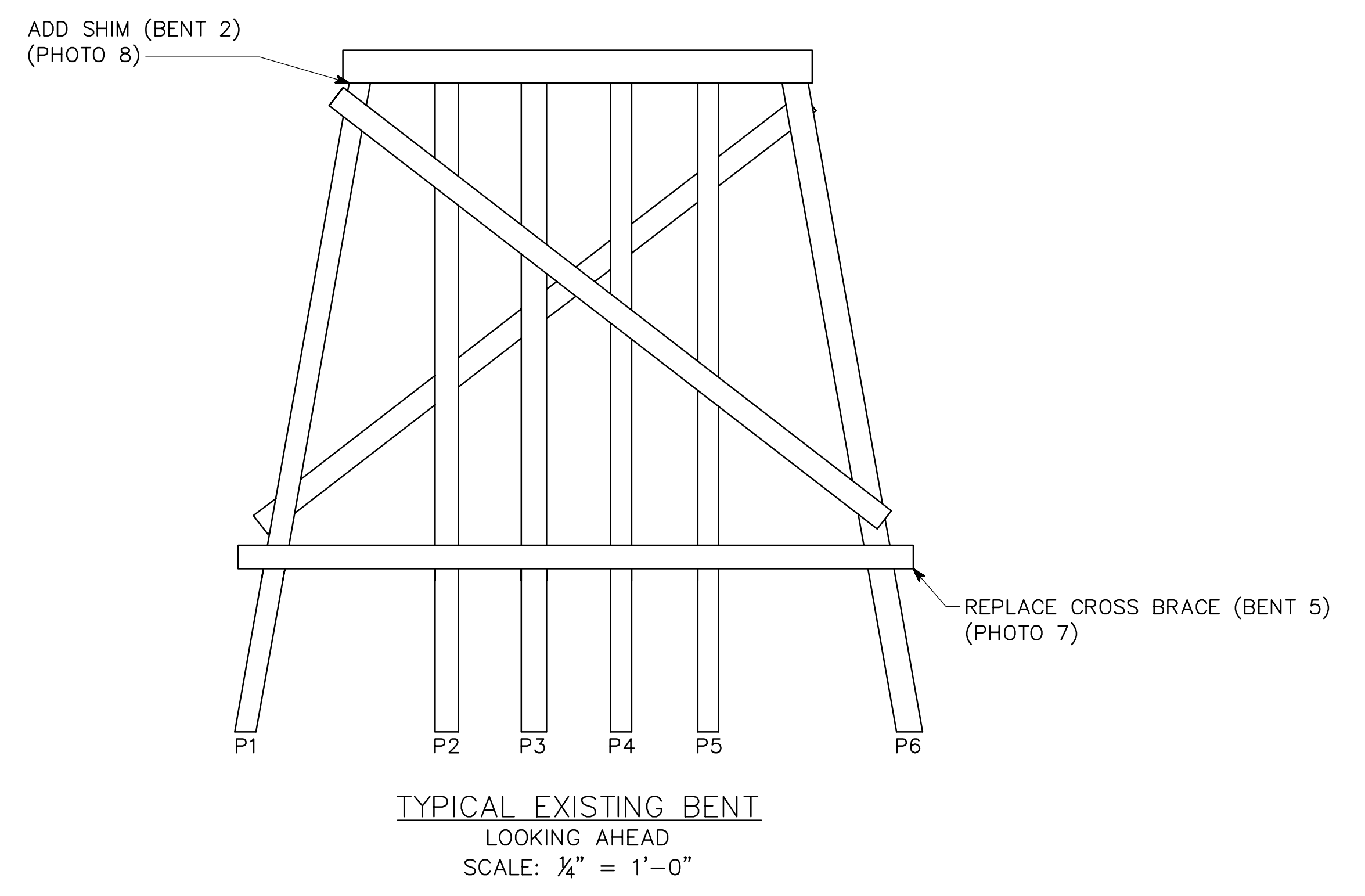
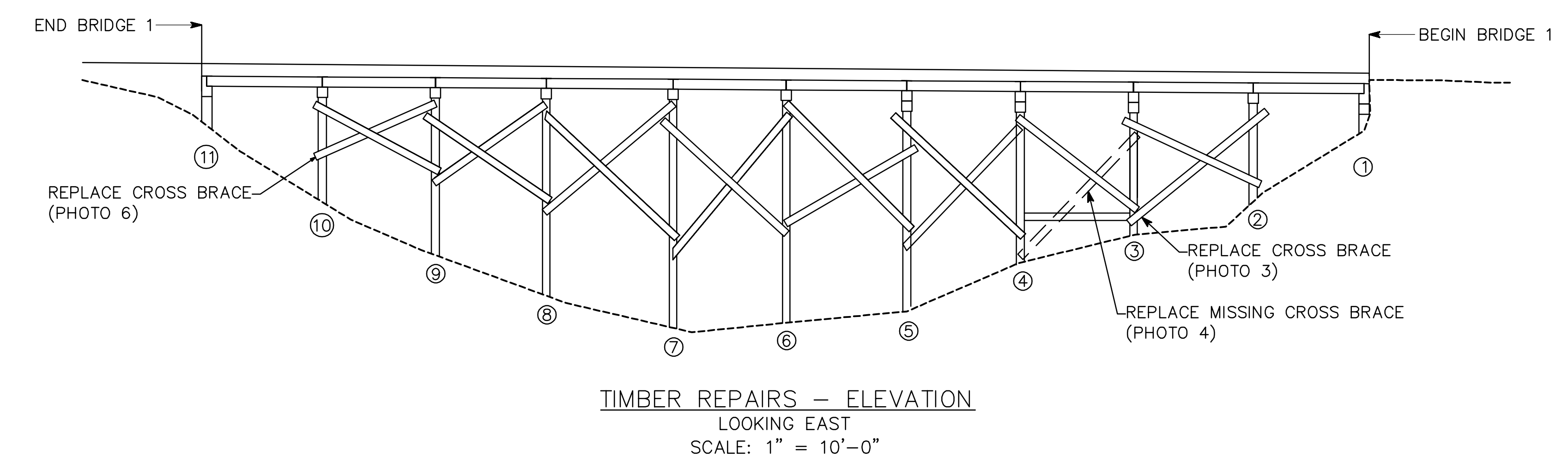
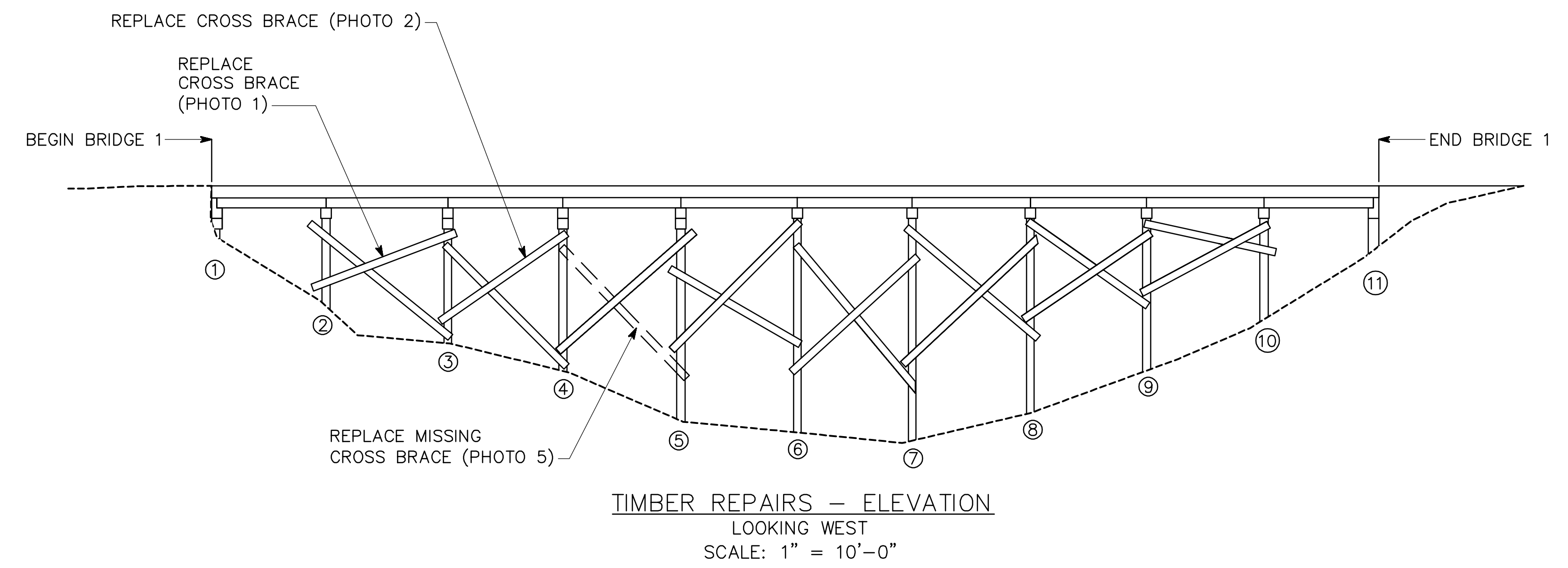
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CHECKED NMC
DESIGN GROUP
REVIEWED
APPROVED

1 INCH WHEN PRINTED FULL SIZE

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DATE: Oct 21, 2021 TIME: 11:44pm USER: kelly.glynn



NOTES:

- REPAIRS IDENTIFIED MAY NOT SHOW ALL REPAIRS REQUIRED. CONTRACTOR SHALL IDENTIFY LOCATIONS OF REPAIRS TO BE MADE IN THE FIELD AND ENGINEER SHALL APPROVE ALL REPAIRS.
- BOLTED CONNECTIONS OR ANY ADDITIONAL HARDWARE REQUIRED TO COMPLETE THE REPLACEMENT OR REPAIRS OF TIMBER MEMBERS SHALL BE INCIDENTAL TO THE "BRIDGE TIMBER, TREATED" PAY ITEM.

BRIDGE NO. 1

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ATLANTA BELTLINE

INTERMEDIATE BENT REPAIRS
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: AS NOTED OCTOBER 2021

DRAWING NO.	35-0007
BRIDGE SHEET	7 OF 9

DATE	
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DRAWN	ASG	DESIGN GROUP		APPROVED	

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1 REPAIR PHOTO
SCALE: NOT TO SCALE



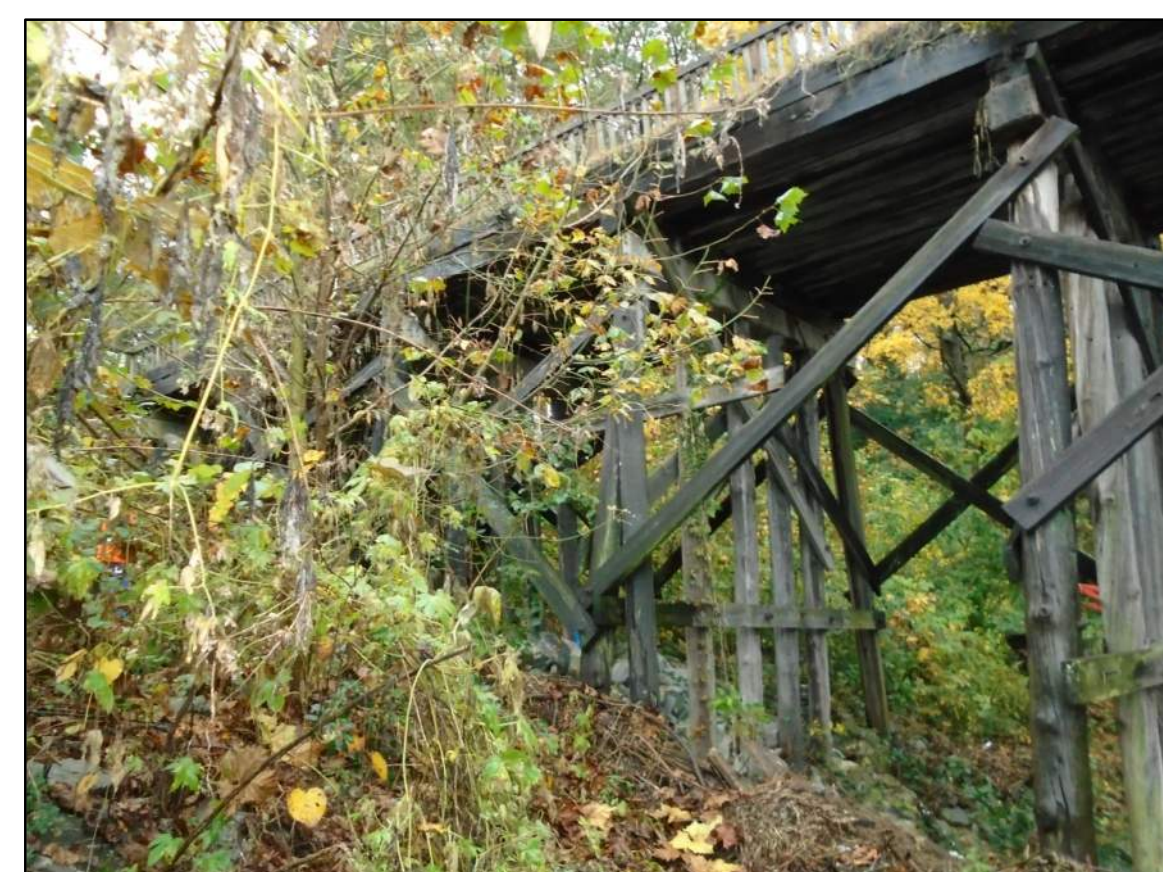
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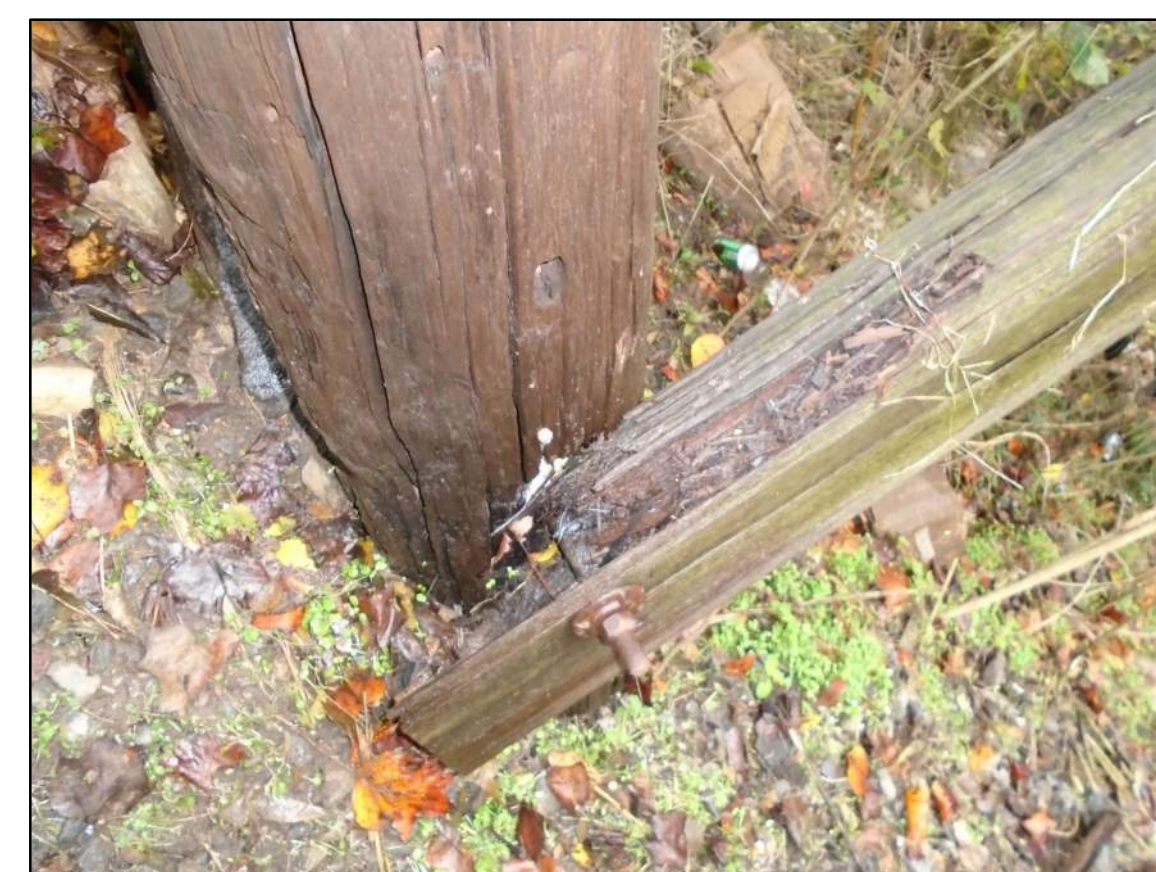
3 REPAIR PHOTO
SCALE: NOT TO SCALE



4 REPAIR PHOTO
SCALE: NOT TO SCALE



5 REPAIR PHOTO
SCALE: NOT TO SCALE



6 REPAIR PHOTO
SCALE: NOT TO SCALE



7 REPAIR PHOTO
SCALE: NOT TO SCALE



8 REPAIR PHOTO
SCALE: NOT TO SCALE

NOTES:

- 1. FOR REPAIR TYPE, SEE "INTERMEDIATE BENT REPAIRS."
- 2. FOR REPAIR ESTIMATED QUANTITIES, SEE "GENERAL NOTES."

BRIDGE NO. 1

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ATLANTA BELTLINE

TYPICAL REPAIR PHOTOS
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

SCALE: NOT TO SCALE

OCTOBER 2021

DRAWING NO.
35-0008
BRIDGE SHEET
8 OF 9

DATE
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BY

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DRAWN	ASG	DESIGN GROUP		APPROVED	

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REPAIR PHOTOS.dwg

LOCATION	NO. OF LOC.	MARK	LENGTH		NO. BARS REQ'D	TYP E	AG	B		C		D		E		F		H		J		K		N	O
			FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.		
APPROACH SLAB	2																								
		400	4-7	22	25	4	4	0-8	1-3																
		401	5-3	30	25	4	4	0-8	1-7																
		503	9-8	32	1																				
		504	12-8	11	2			9-8	1-6	1-6															
		505	17-0	8	1																				
		506	13-8	7	1																				
		507	3-0	44	4			0-8	2-4															45	
		600	16-9	14	1																				
SPANS I-10	1																								
		300	3-0	52	1																				
		301	4-10	104	19			2-2	2-2	0-0	0-3														
		302	3-6	12	25	4	4	1-0	0-5																
		303	6-4	6	6			1-0	2-8	0-0	2-8													60	60
		402	4-11	12	2			0-5	2-3	2-3															
		403	5-4	6	2			0-7	2-3	2-3															
		500	44-3	168	1																				
		501	18-8	194	2			17-8	0-6	0-6															
		502	17-8	194	1																				
END BENT I	1																								
		410	10-9	12	25	4	4	2-6	2-6																
		411	11-6	8	1																				
END BENT II	1																								
		410	10-9	12	25	4	4	2-6	2-6																
		411	11-6	8	1																				

P.I. NO.

DATE: Oct 21, 2021 TIME: 11:55pm

USER: kelleyglynn

BRIDGE NO. 1

Kimley»Horn

© 2017 KIMLEY-HORN AND ASSOCIATES, INC.
817 W. PEACHTREE STREET, NW
THE BILTMORE, SUITE 601
ATLANTA, GEORGIA 30308
PHONE (404) 419-8700

ATLANTA BELTLINE

BAR REINFORCEMENT SCHEDULE
ATLANTA BELTLINE NORTHEAST TRAIL
OVER CLEAR CREEK
FULTON COUNTY

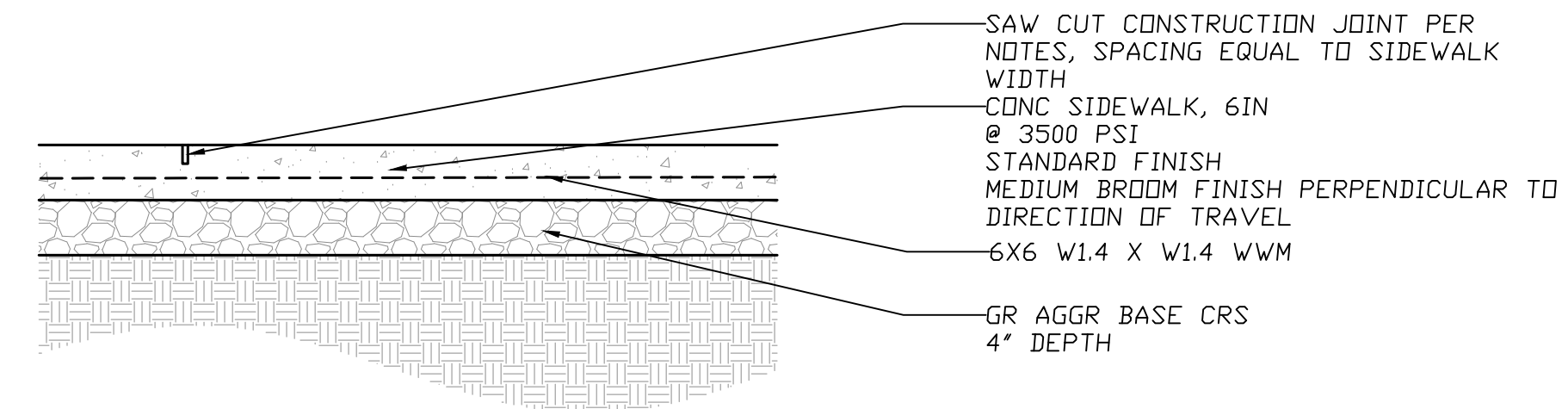
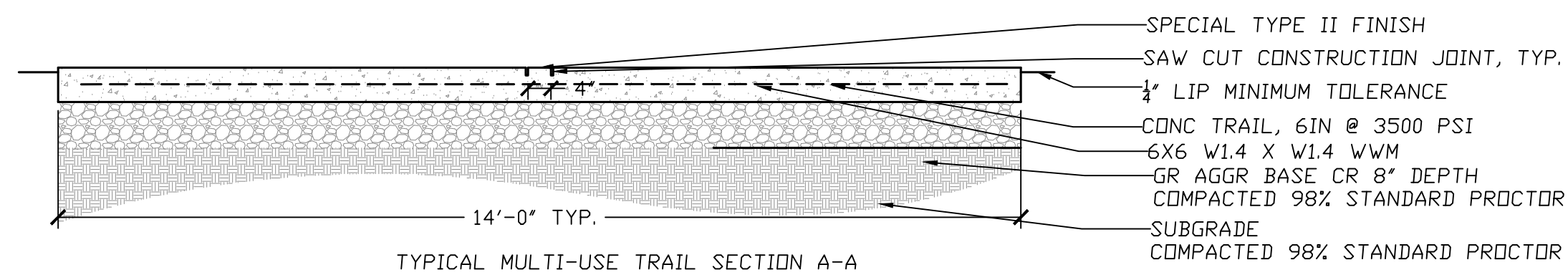
DRAWING NO.
35-0009
BRIDGE SHEET
9 OF 9

DATE	
REVISIONS	
BY	

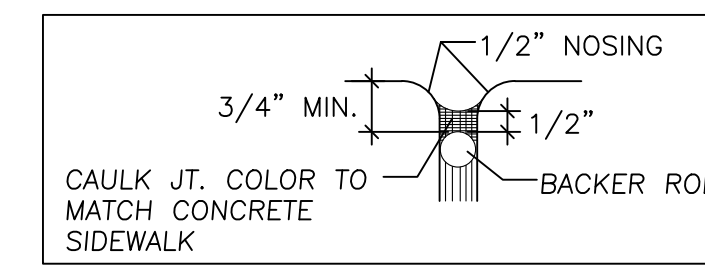
SCALE: NO SCALE OCTOBER 2021
DESIGNED ASG CHECKED NMC REVIEWED
DRAWN ASG DESIGN GROUP APPROVED

1 INCH WHEN PRINTED FULL SIZE

RB.dwg



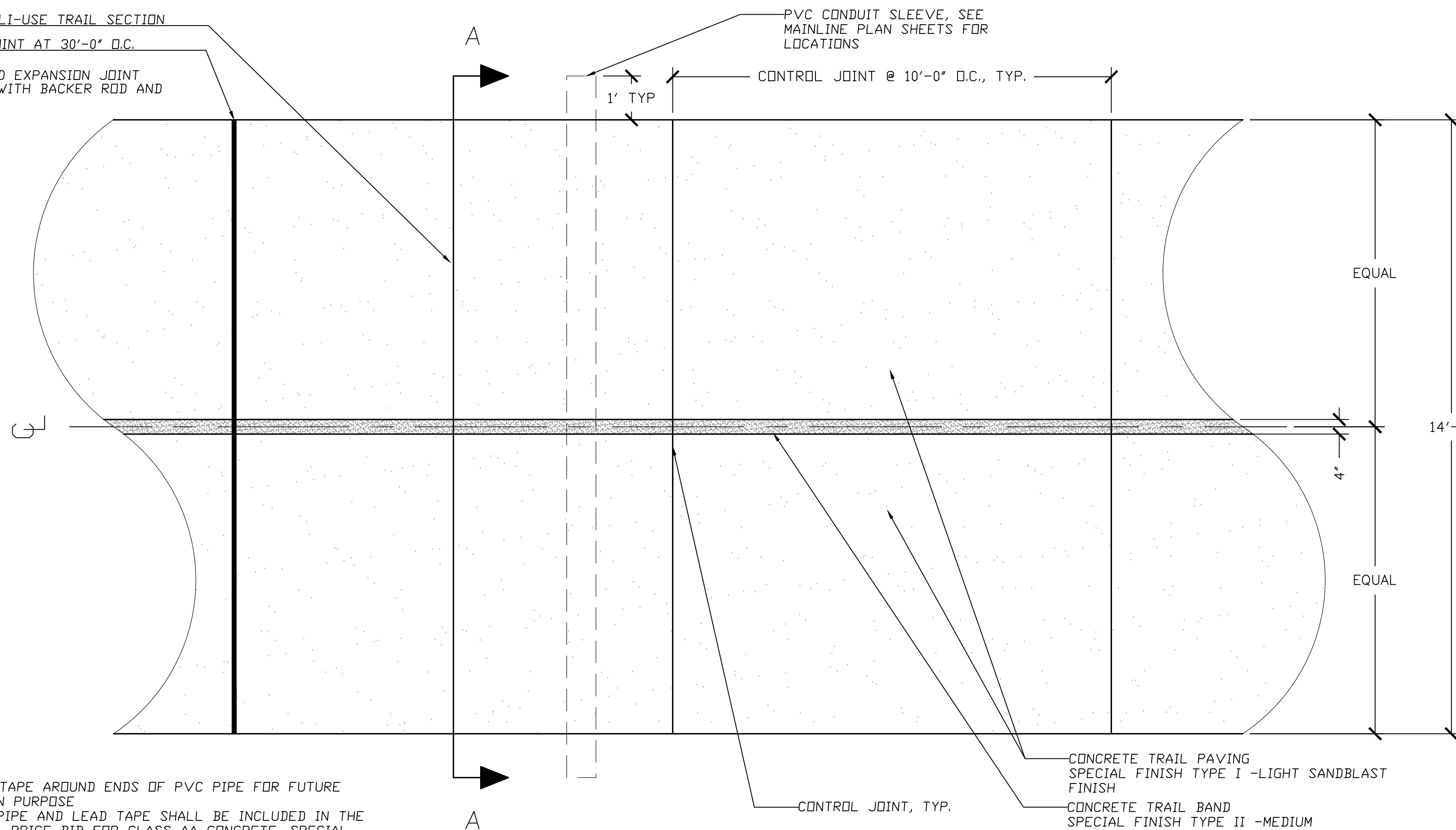
- NOTES:
1. CAULK JOINT WITH LITHOSEAL (COLOR TO MATCH CONCRETE COLOR).
 2. DEPTH OF THE SAWCUT CONTRACTION JOINT SHALL BE 1/4\"/>



EXPANSION JOINT TYP. 30' MAX SPACING

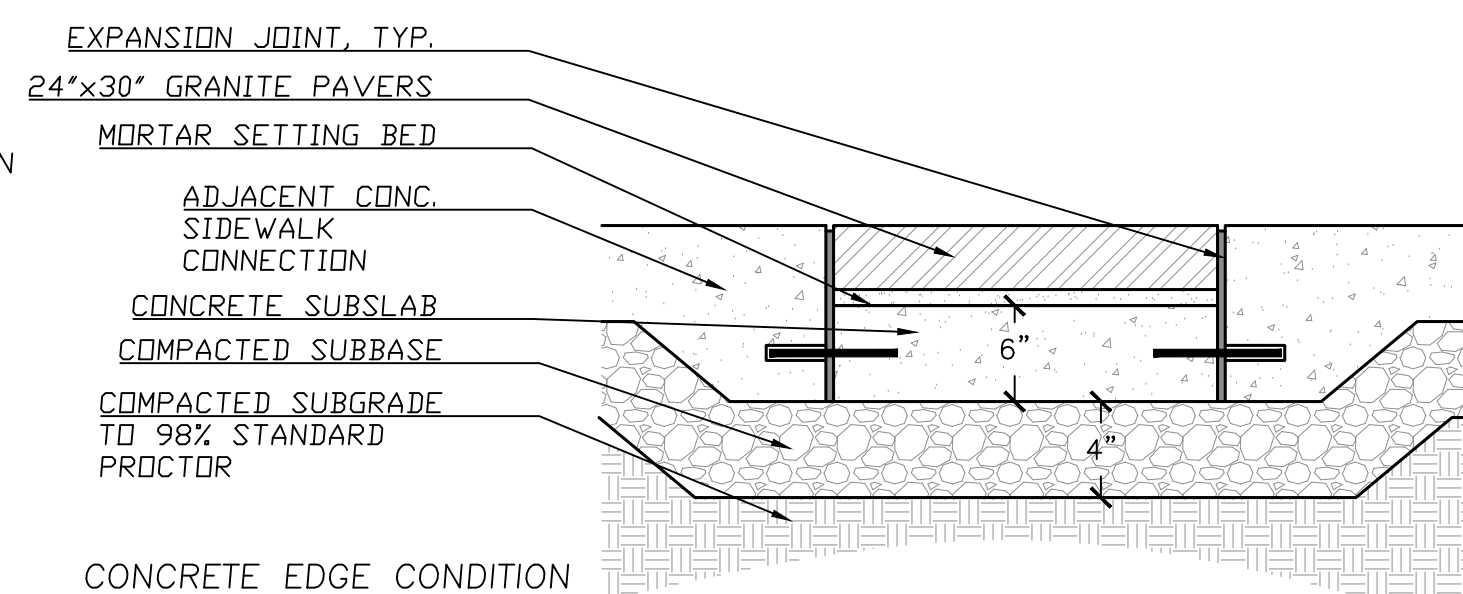
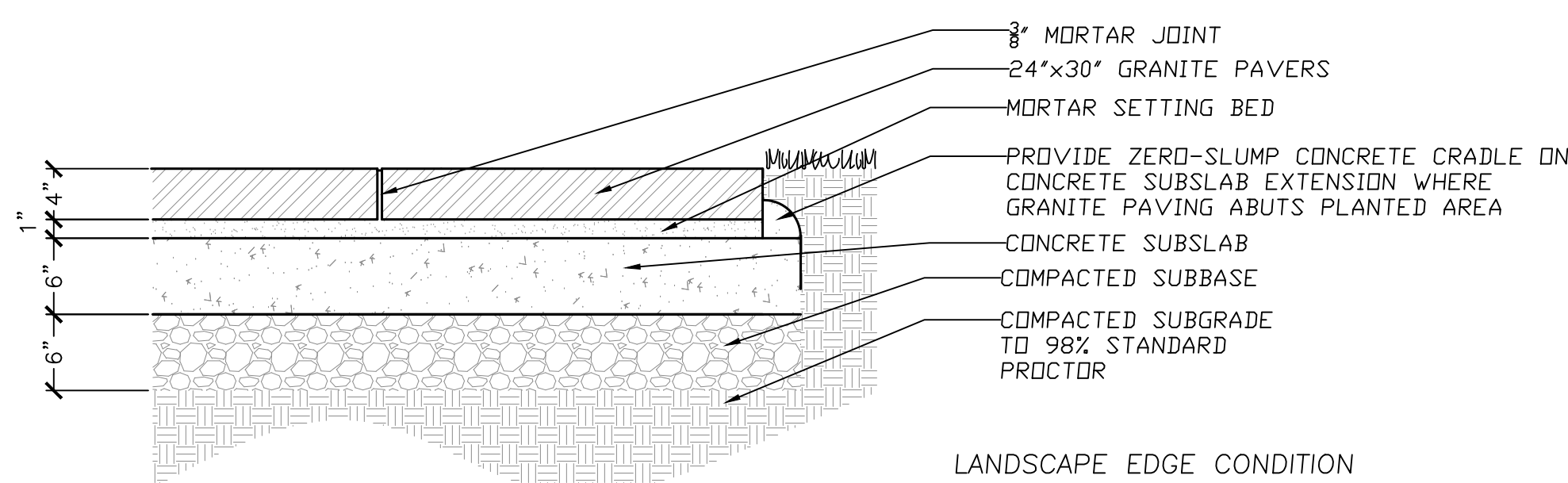
2 CONCRETE SIDEWALK
1" = 1' SCALE

TYPICAL MULTI-USE TRAIL SECTION
EXPANSION JOINT AT 30'-0" O.C.
TYP.
3/8" PREMOULDED EXPANSION JOINT
FULL DEPTH WITH BACKER ROD AND
SEALANT

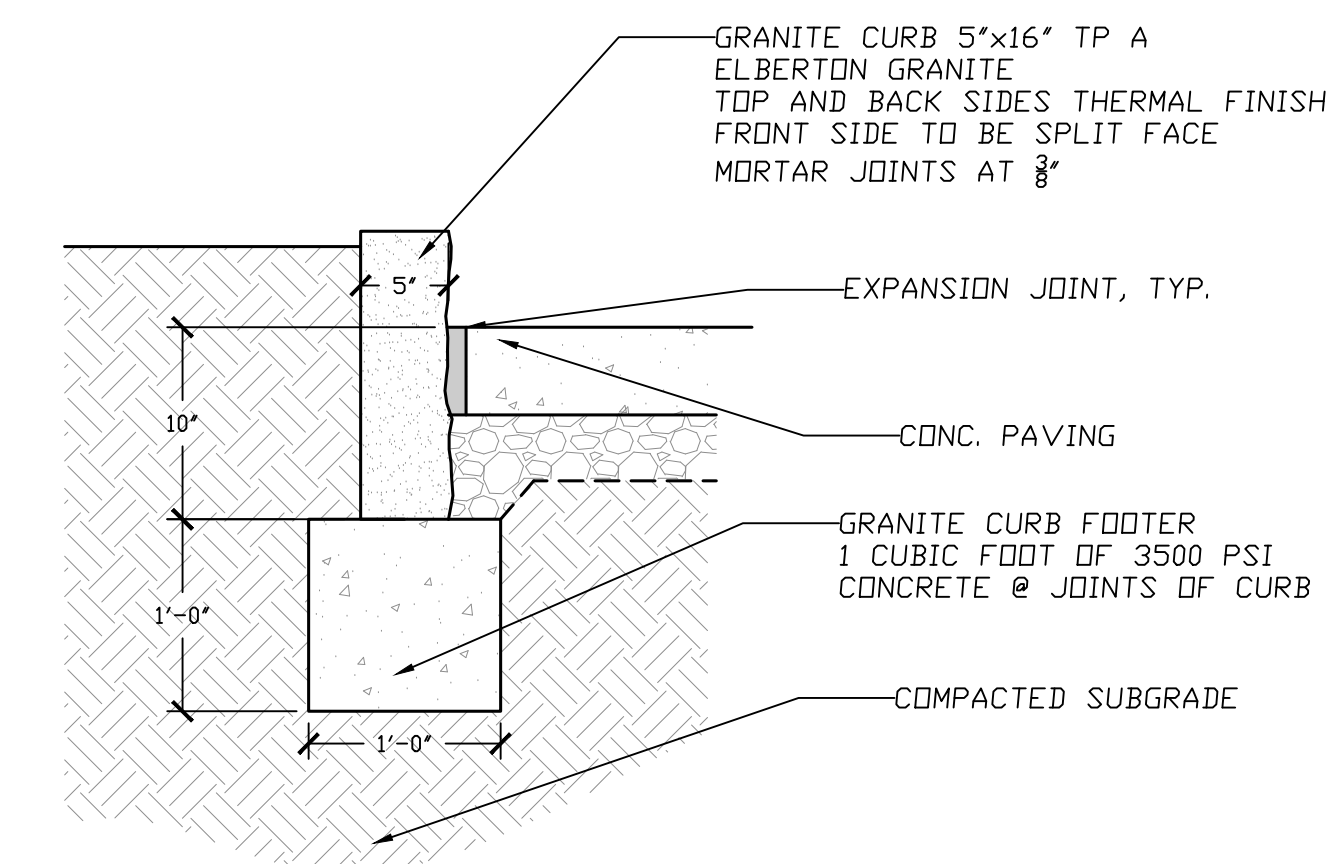


- NOTES:
1. LEAD TAPE AROUND ENDS OF PVC PIPE FOR FUTURE LOCATION PURPOSE.
 2. PVC PIPE AND LEAD TAPE SHALL BE INCLUDED IN THE OVERALL PRICE BID FOR CLASS AA CONCRETE, SPECIAL FINISH

1 MULTI-USE TRAIL - PLAN AND SECTION
1/2" = 1' SCALE



3 GRANITE BANDING
1" = 1' SCALE



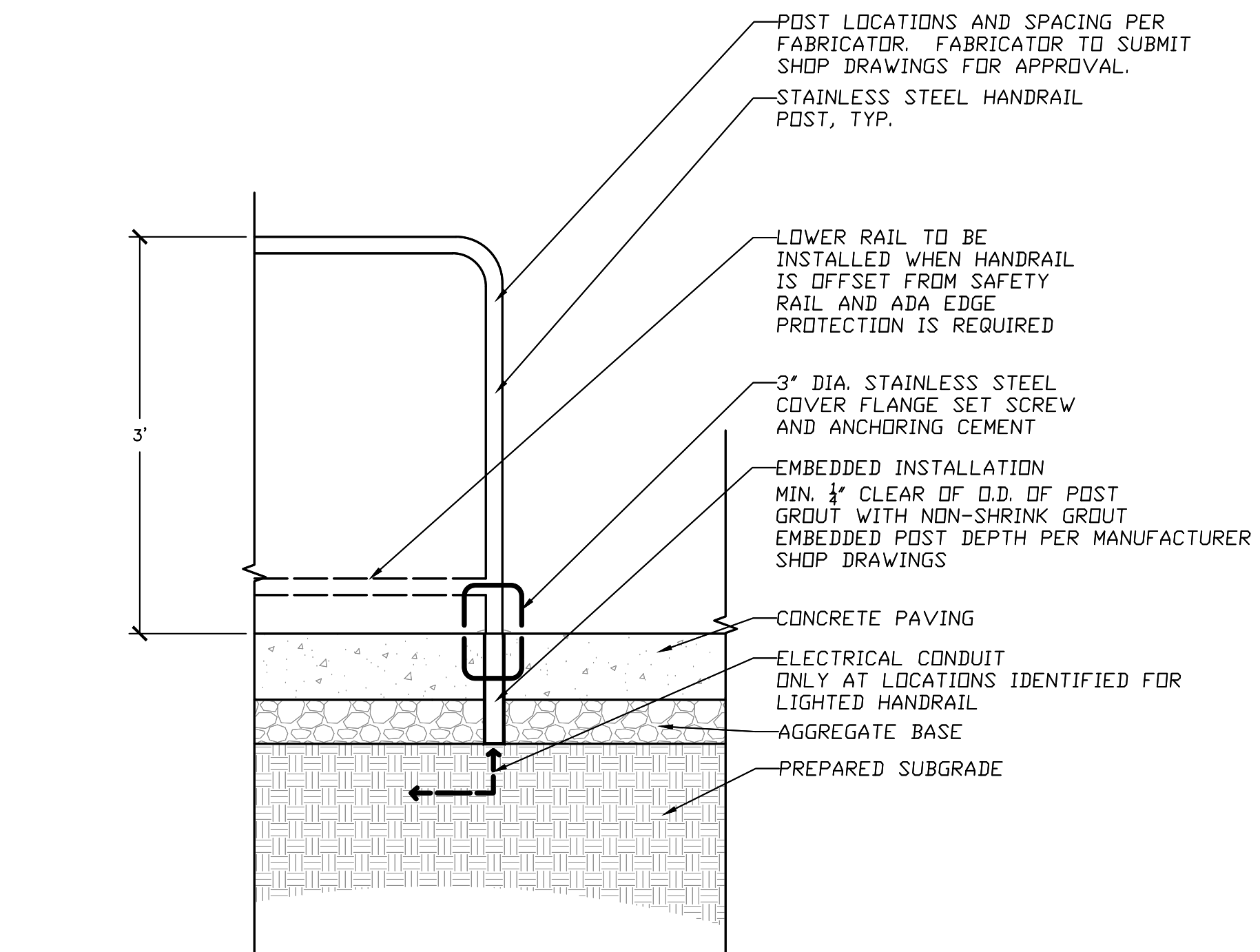
4 GRANITE CURB
1" = 1' SCALE

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

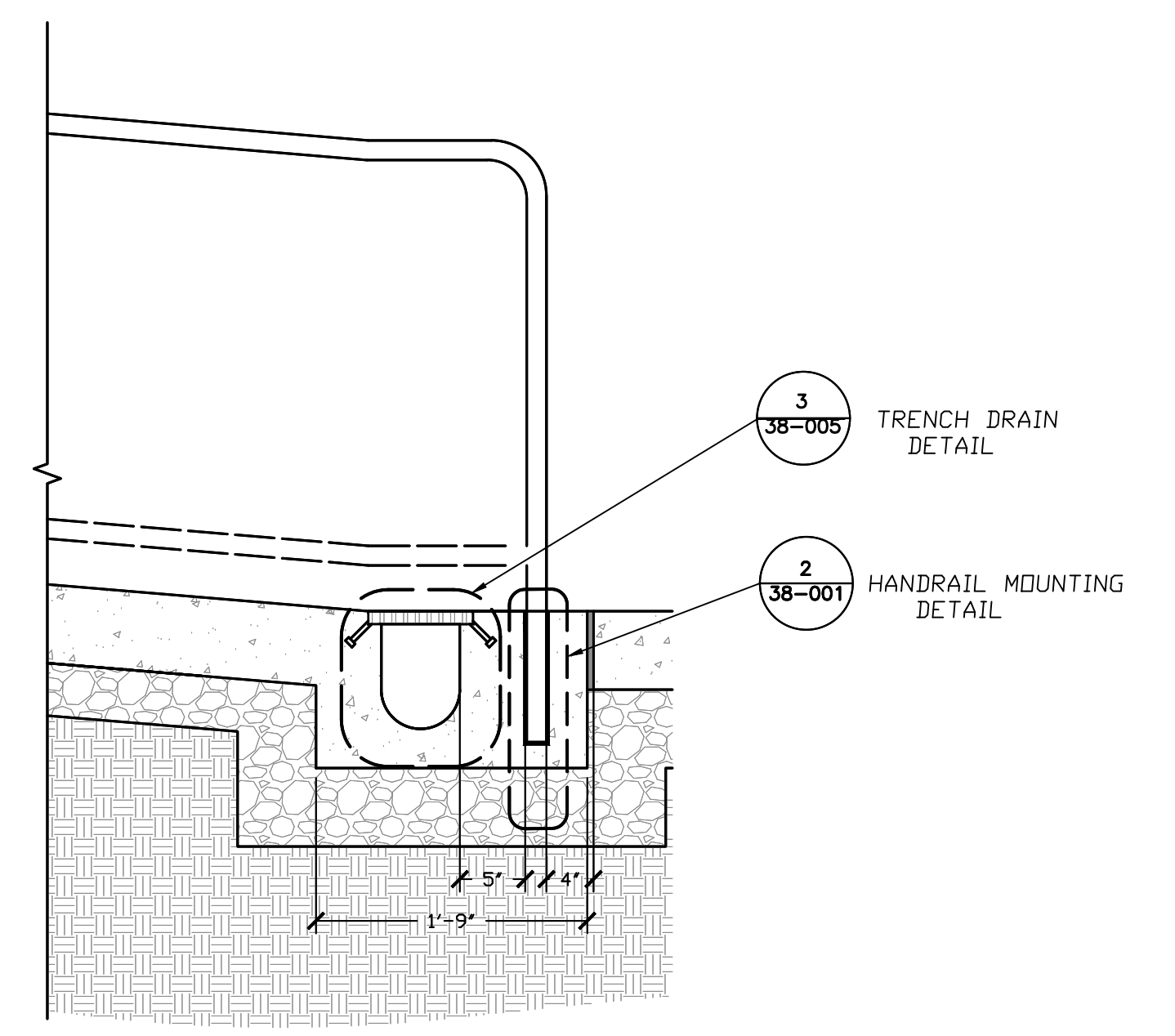
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
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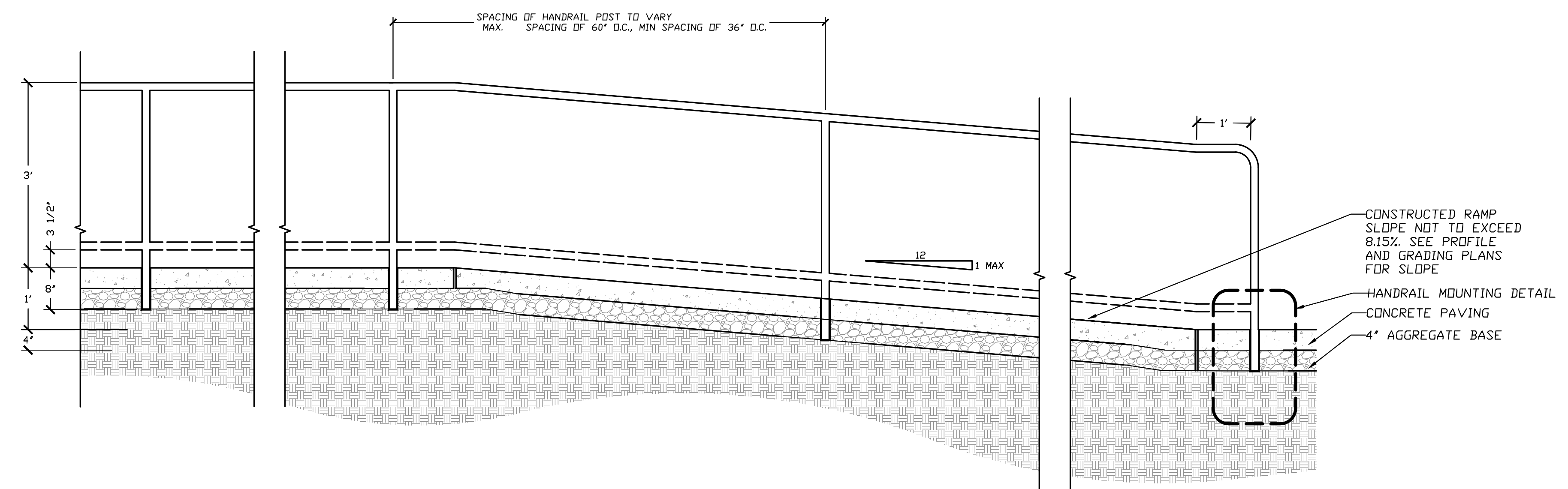
REVISION DATES		SPECIAL CONSTRUCTION DETAIL ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
CORRECTED:	DATE:	VERIFIED:	DATE:
			DRAWING No. 38-000



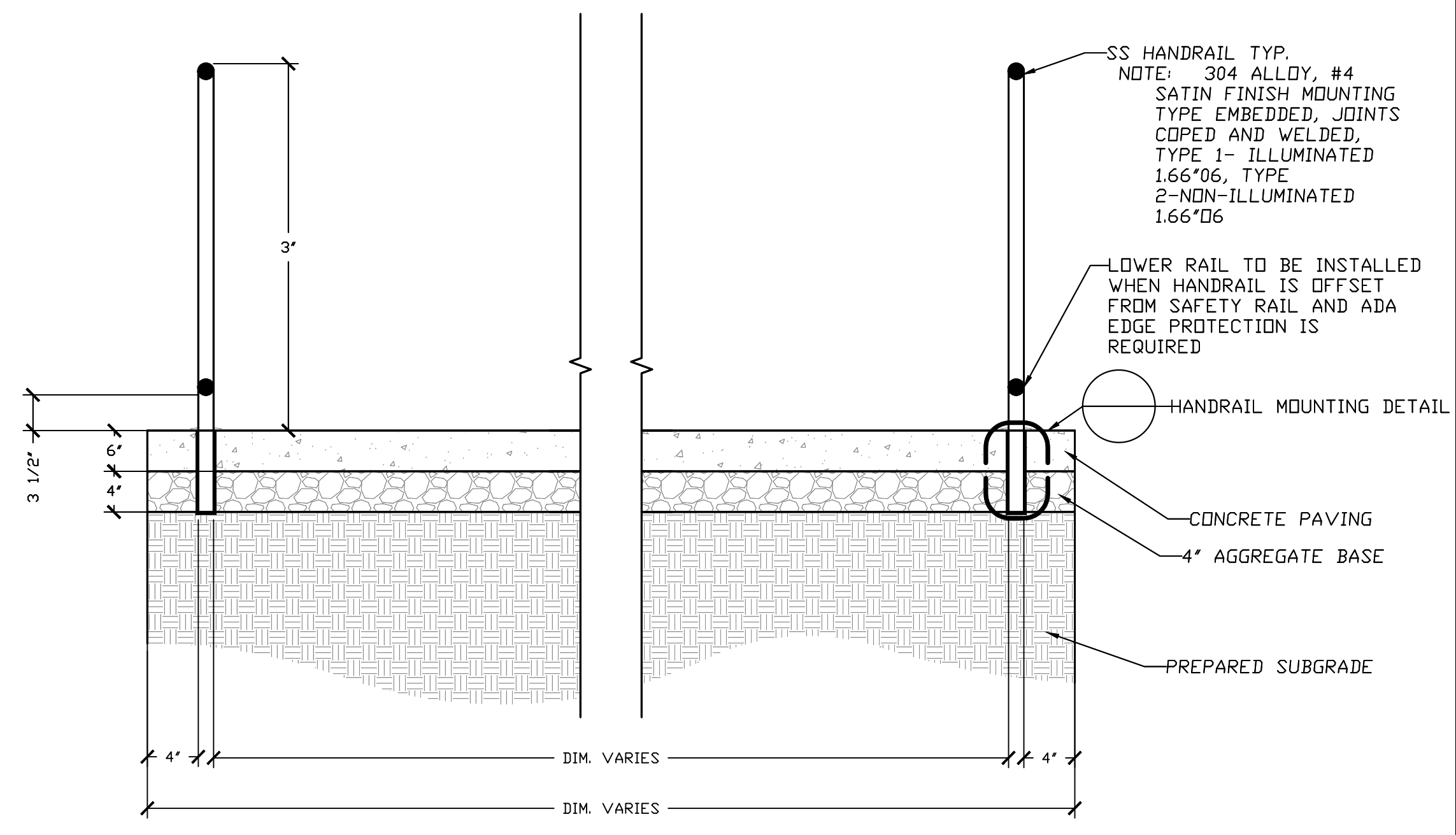
2 HANDRAIL MOUNTING
1" = 1' SCALE



3 TRENCH DRAIN / HANDRAIL MOUNTING
1" = 1' SCALE



1 ADA RAMP HANDRAIL
3/4" = 1' SCALE

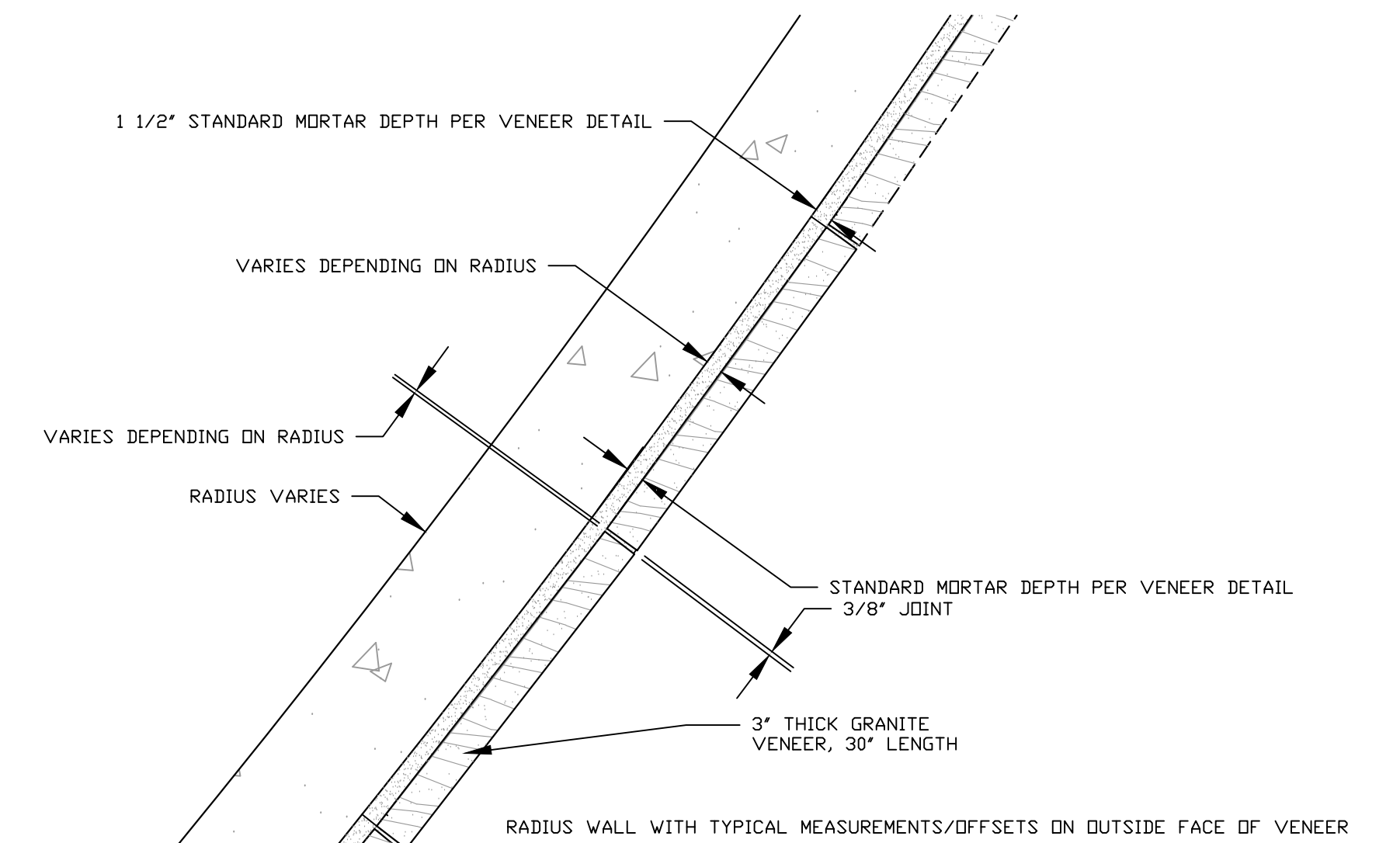
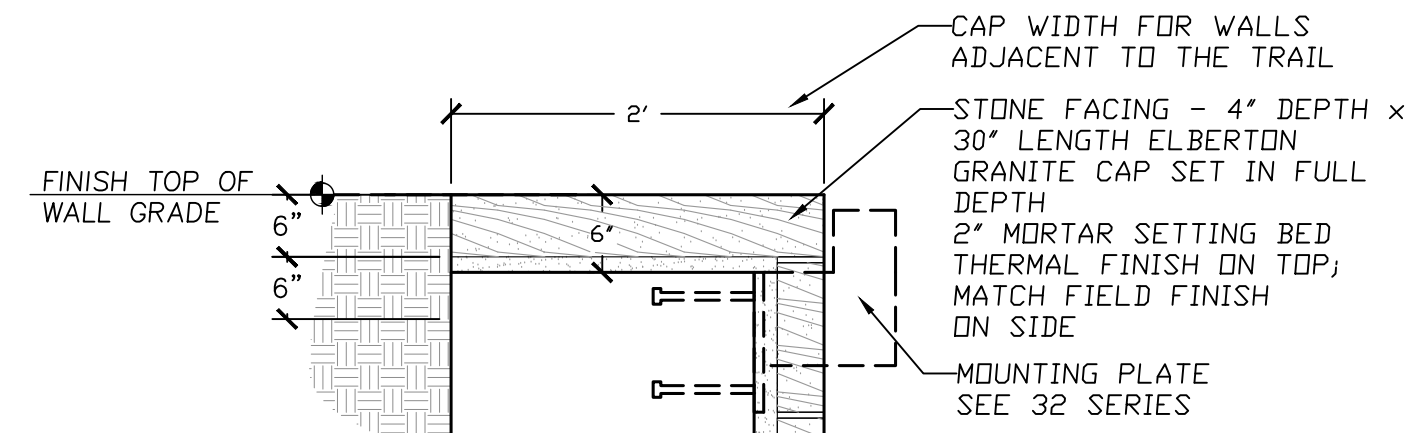
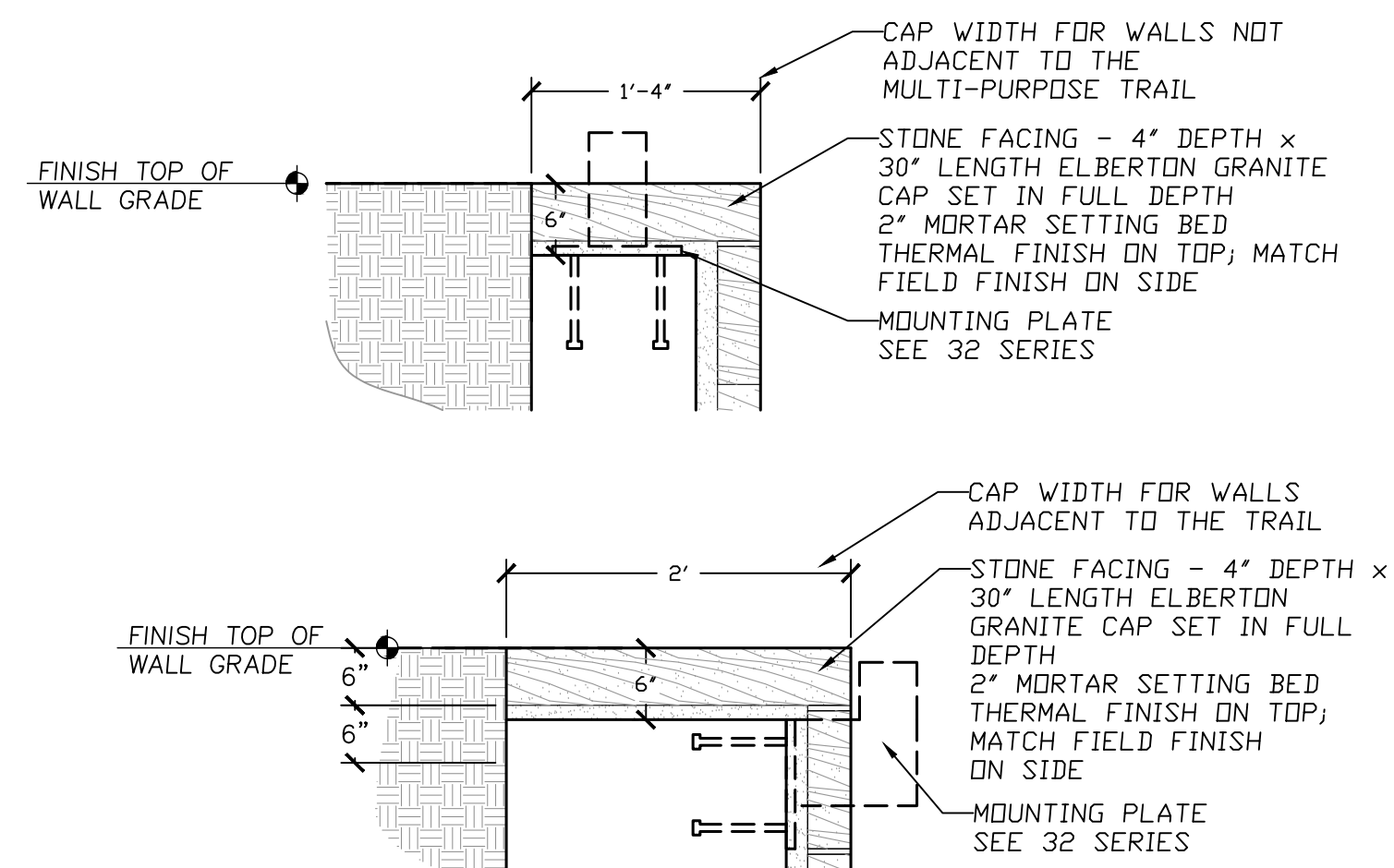
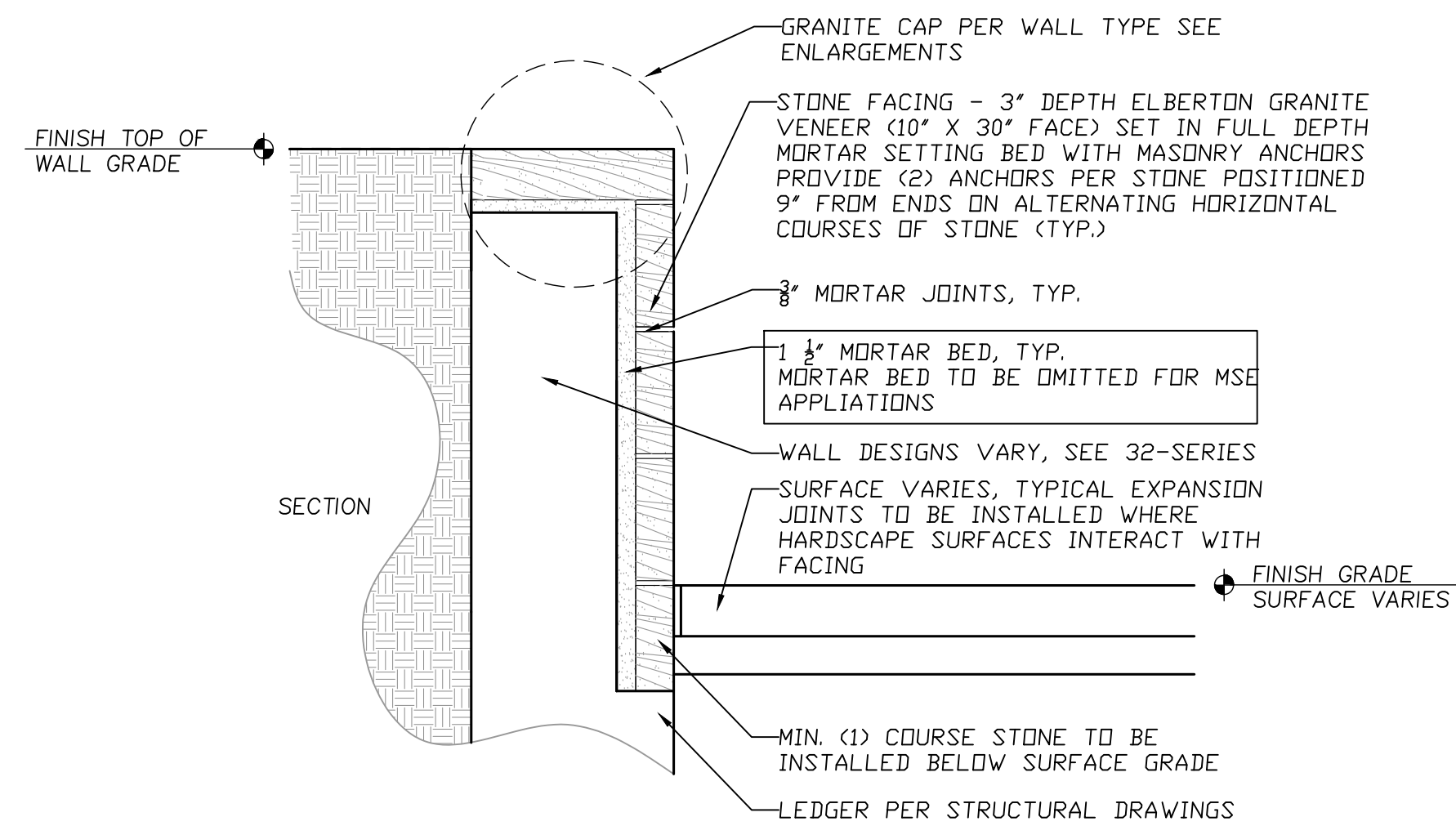


PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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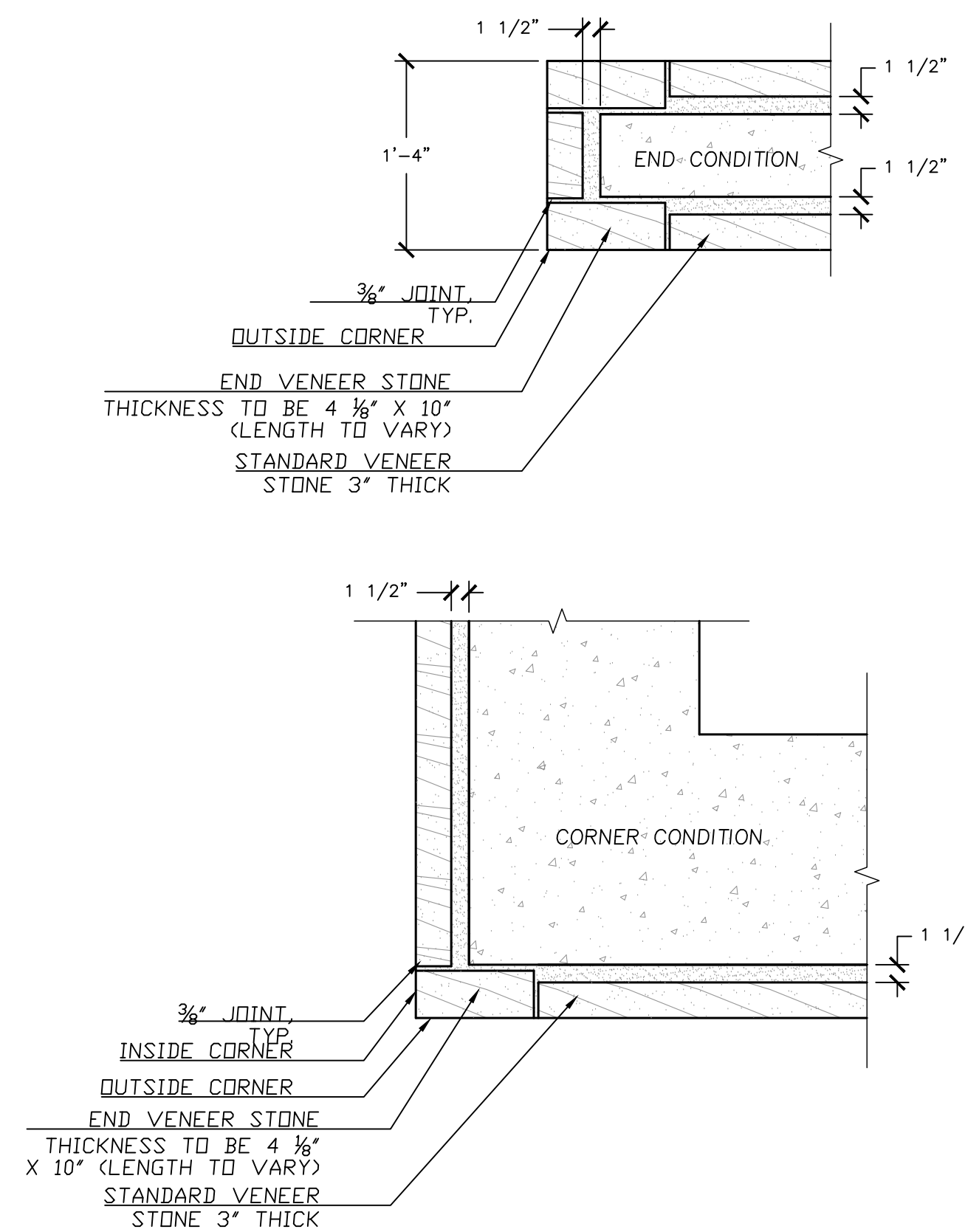
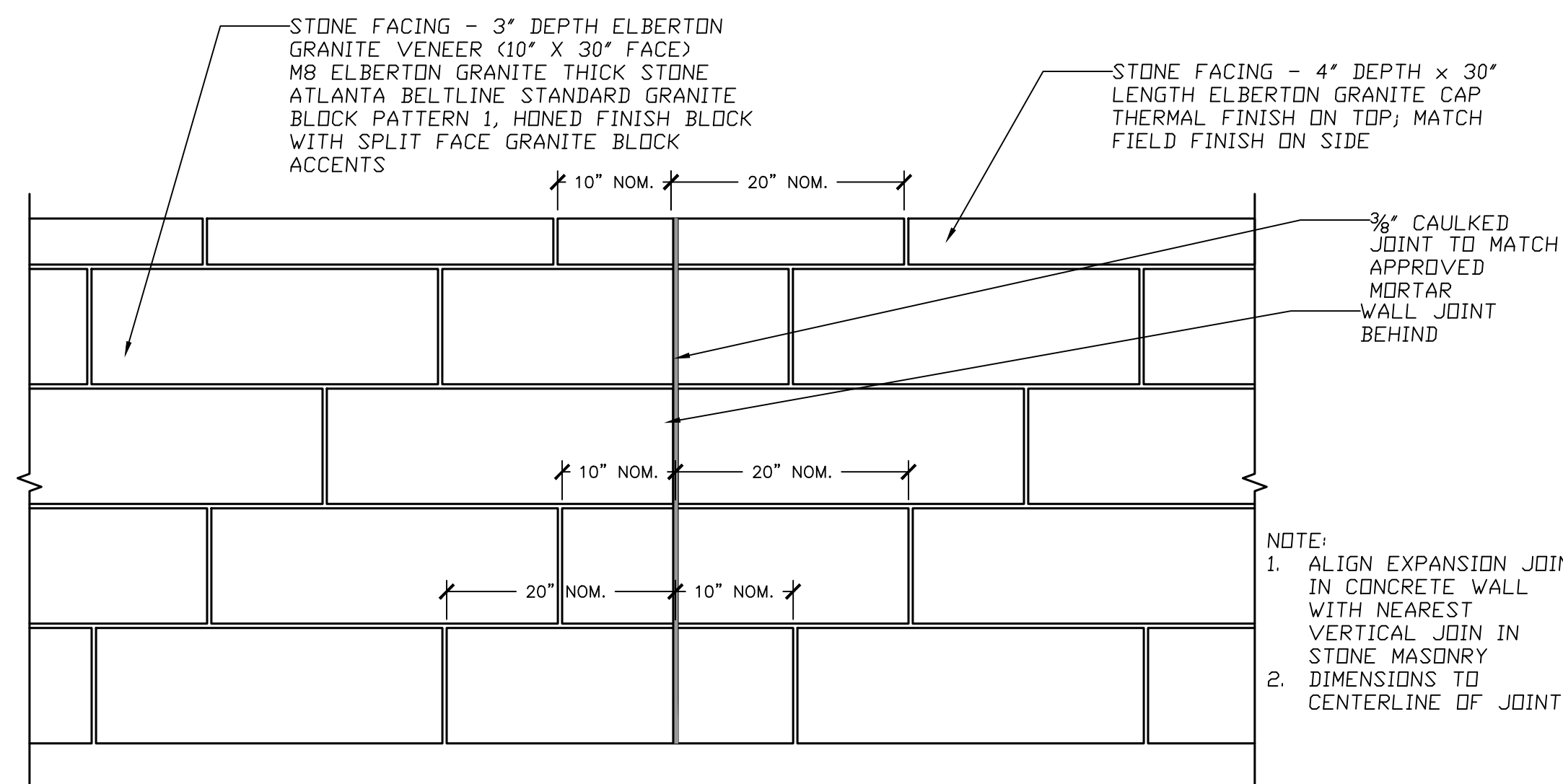
Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

REVISION DATES		SPECIAL CONSTRUCTION DETAIL	
NO.	DATE	ATLANTA BELTLINE NORTHEAST TRAIL	
		CHECKED:	DATE:
		BACKCHECKED:	DATE:
		CORRECTED:	DATE:
		VERIFIED:	DATE:
		DRAWING No.	
		38-001	



1 GRANITE STONE VENEER 1" = 1' SCALE

2 GRANITE VENEER ON RADIAL WALLS 1" = 1' SCALE



3 GRANITE STONE FACING AT WALL EXPANSION JOINT 1" = 1' SCALE

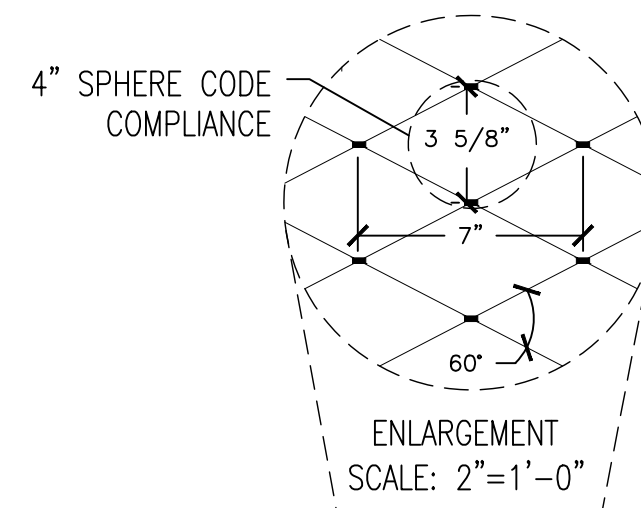
4 RETAINING WALL END/CORNER CONDITION 1" = 1' SCALE

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

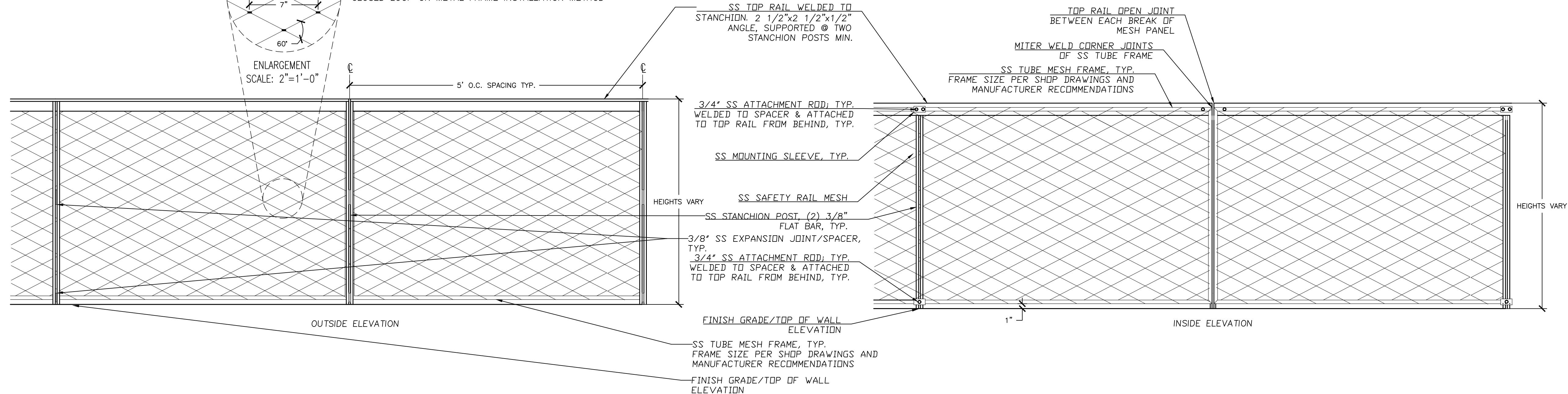
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW SUITE 2300
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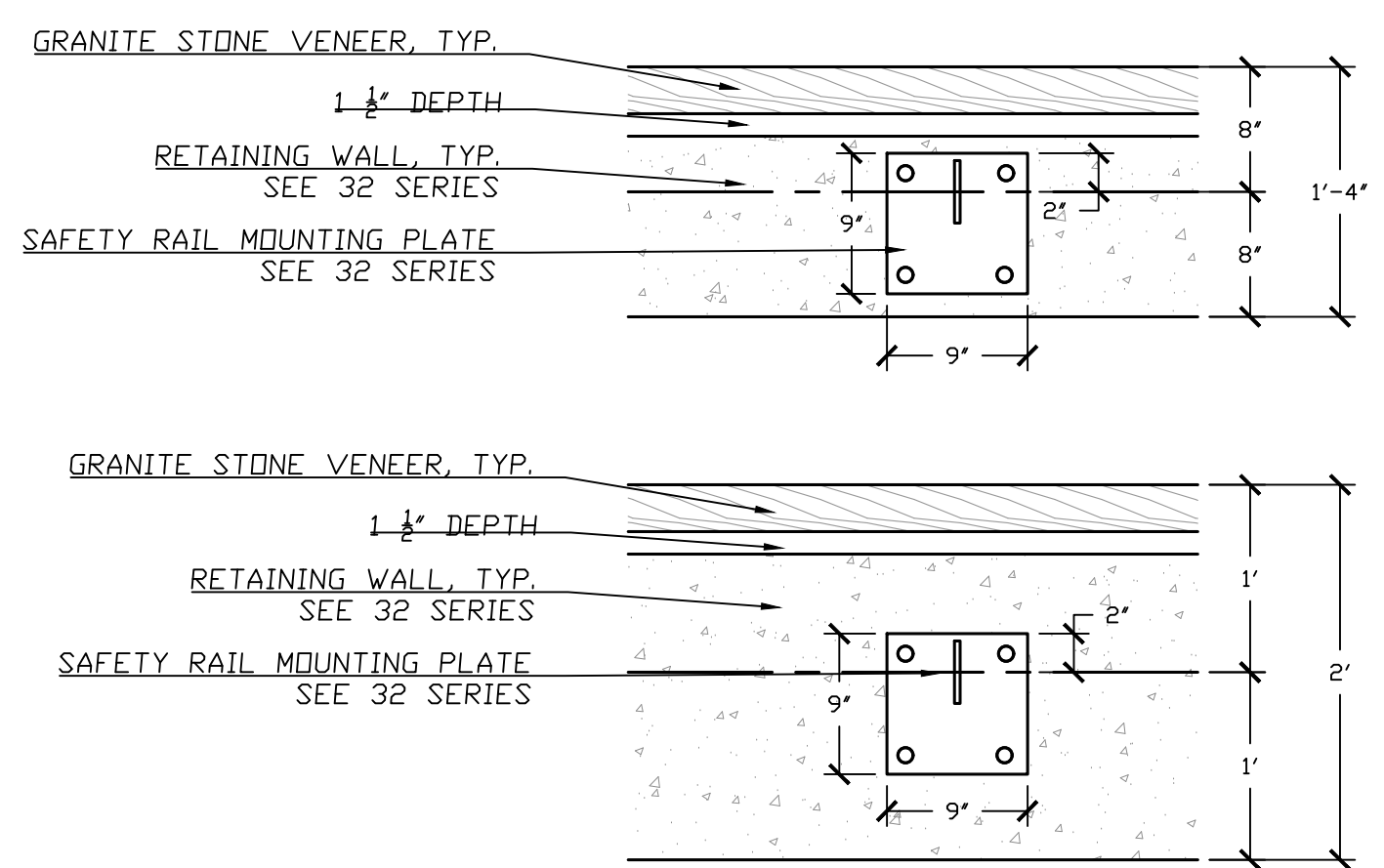
REVISION DATES		SPECIAL CONSTRUCTION DETAIL	
		ATLANTA BELTLINE NORTHEAST TRAIL	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



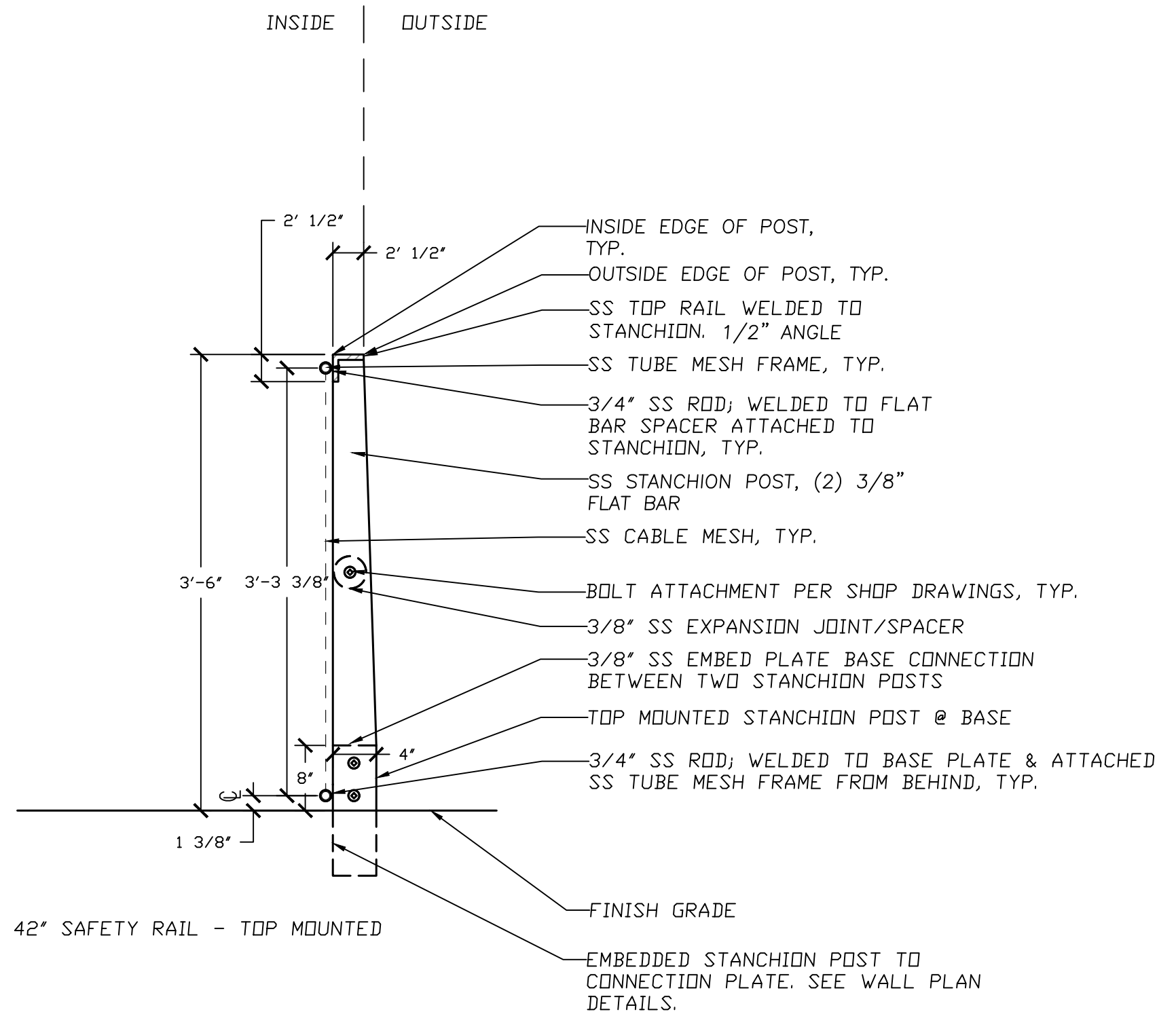
SS SAFETY RAIL MESH:
 CARL STAHL DECORCABLE INNOVATIONS
 2MM X 100MM (2MM X 50MM AT 102 inch HT SAFETY RAIL AT METROPOLITAN BRIDGE)
 HORIZONTAL MESH DIRECTION (DIAGNAL MESH DIRECTION AT RAMPS AND STAIRS)
 CLOSED LOOP ON METAL FRAME INSTALLATION METHOD



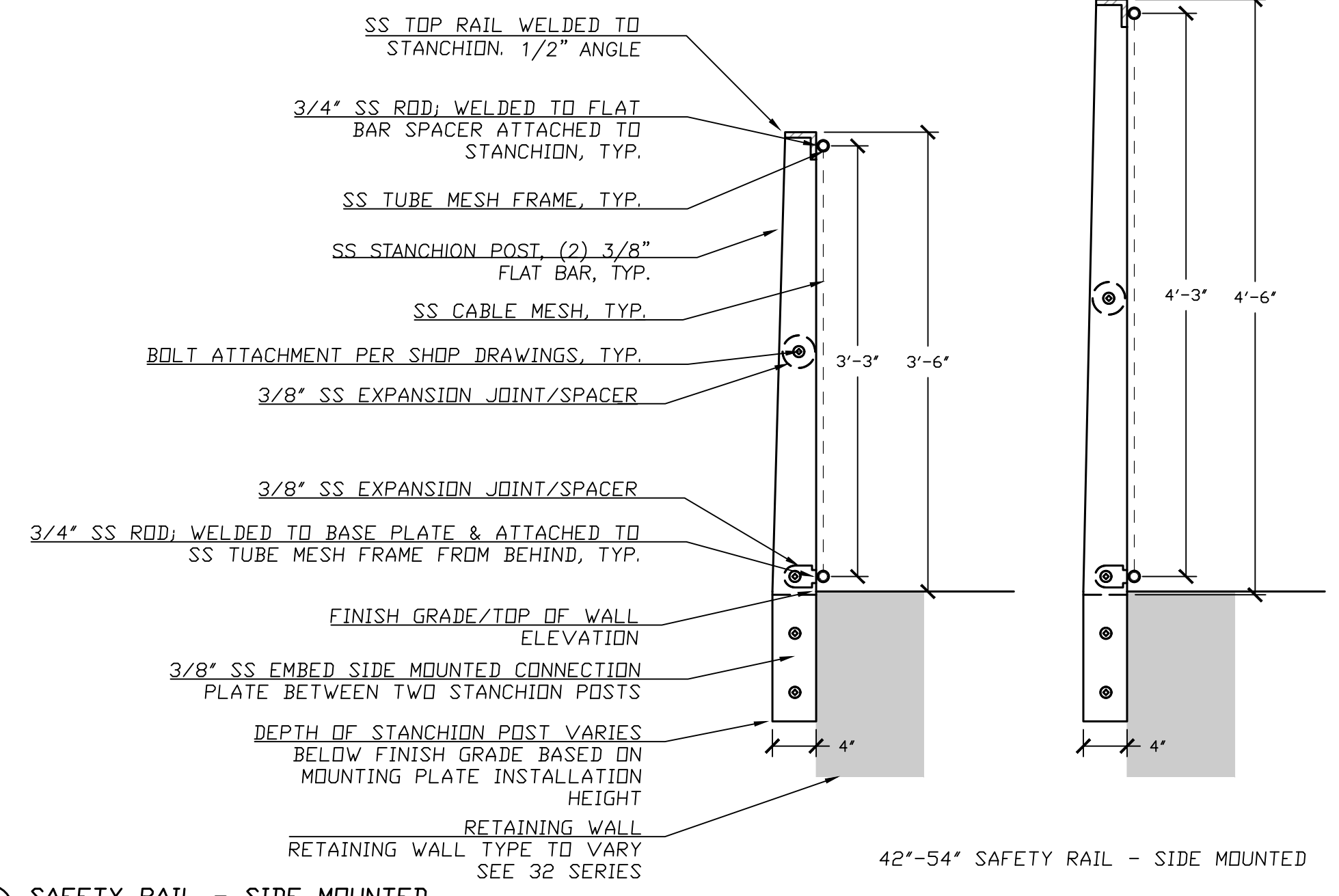
1 SAFETY RAIL - INSIDE AND OUTSIDE ELEVATIONS
 1 inch = 1 foot SCALE



2 SAFETY RAIL MOUNTING PLATE
 1 inch = 1 foot SCALE



3 SAFETY RAIL - TOP MOUNTED
 1 inch = 1 foot SCALE



4 SAFETY RAIL - SIDE MOUNTED
 1 inch = 1 foot SCALE

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

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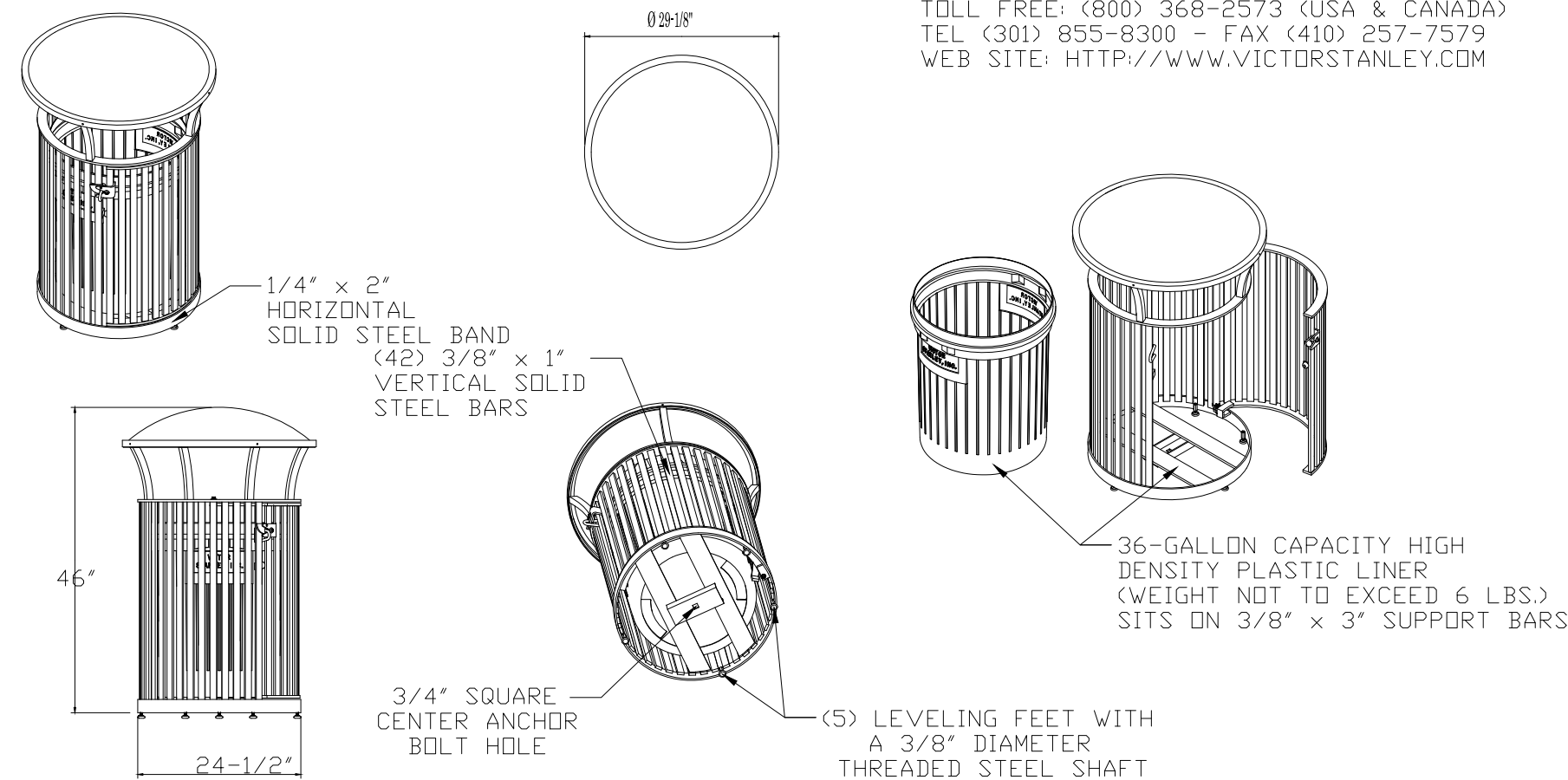
Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

REVISION DATES	

SPECIAL CONSTRUCTION DETAIL
 ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	38-003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MANUFACTURER: VICTOR STANLEY
MODEL: A-36 STEEL SITES SERIES



P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

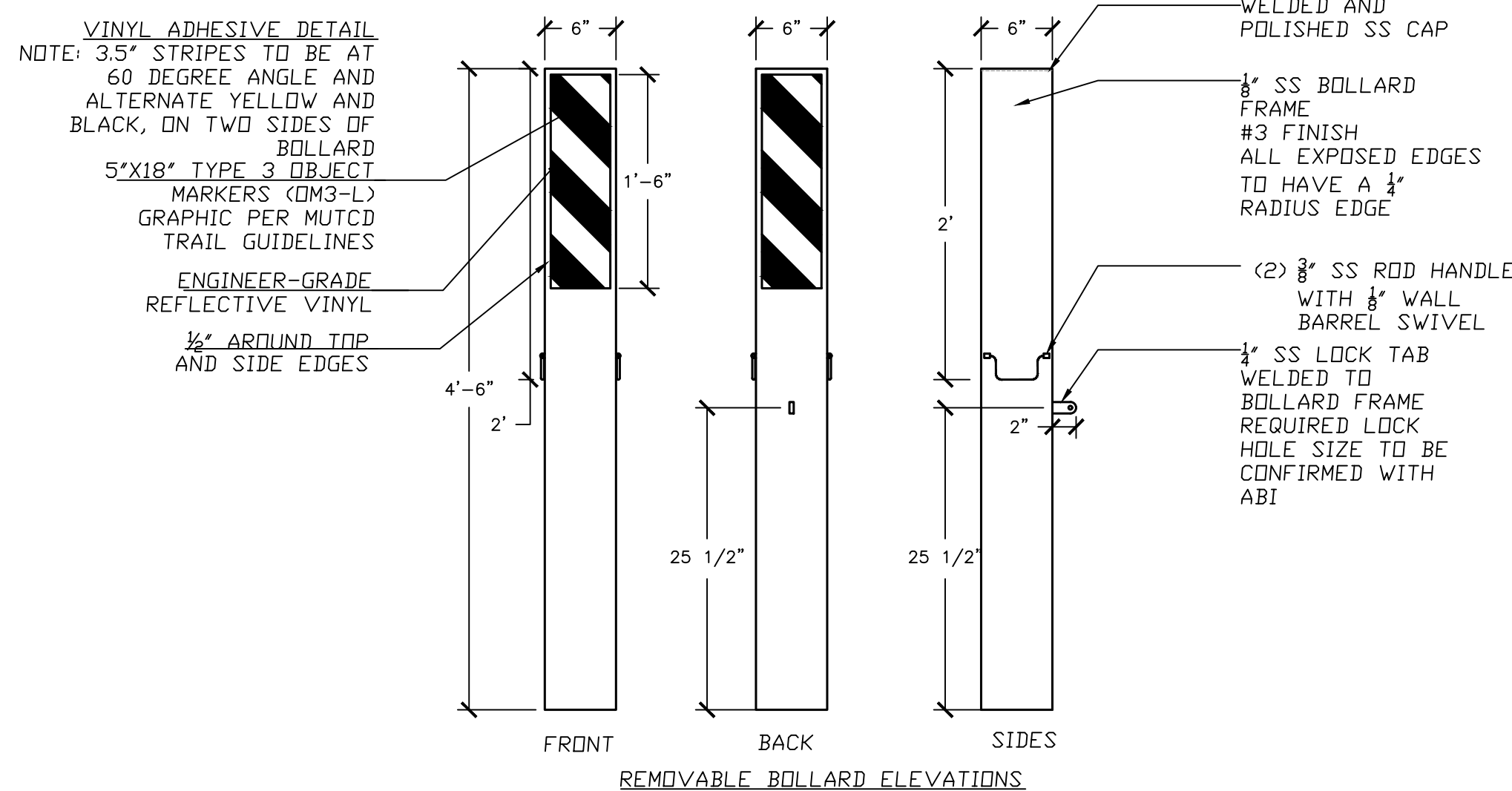
AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
CUSTOM PLAQUES & DECALS
AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

LID AVAILABLE WITH OPTIONAL STAINLESS STEEL ASHTRAY
SECURITY SHOWN WITH STANDARD LOCKABLE LATCH. AVAILABLE WITH OPTIONAL KEYED LOCK BOX. LID RIVETED IN PLACE. AVAILABLE WITH OPTIONAL MOUNT WITH 3 IN-LINE ANCHOR HOLES AND OPTIONAL BOTTOM PLATE COVER.

- NOTES:
- DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
 - ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
 - OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, STANDARD 3/16" SOLID STEEL LATCH ASSEMBLY OR OPTIONAL PATENTED STAINLESS STEEL KEYED LOCK ASSEMBLY.
 - THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
 - VICTOR STANLEY, INC., PLASTIC INNER LINERS ARE MOLDED ON TOOLING DESIGNED FOR AND OWNED BY VICTOR STANLEY, INC. THEY OFFER MAXIMUM CAPACITY AND STRENGTH WITH LIGHTWEIGHT CONSTRUCTION USING CRITICAL MOLDED RIBS, INTEGRAL HANDHOLDS, AND HIGH-STRENGTH MATERIALS. THIS MINIMIZES HANDLING DIFFICULTY AND FACILITATES EASY EMPTYING AND STORAGE WHILE AFFORDING LONG SERVICE LIFE.
 - ANCHOR BOLT NOT PROVIDED BY VICTOR STANLEY, INC.
 - FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
 - ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 - THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

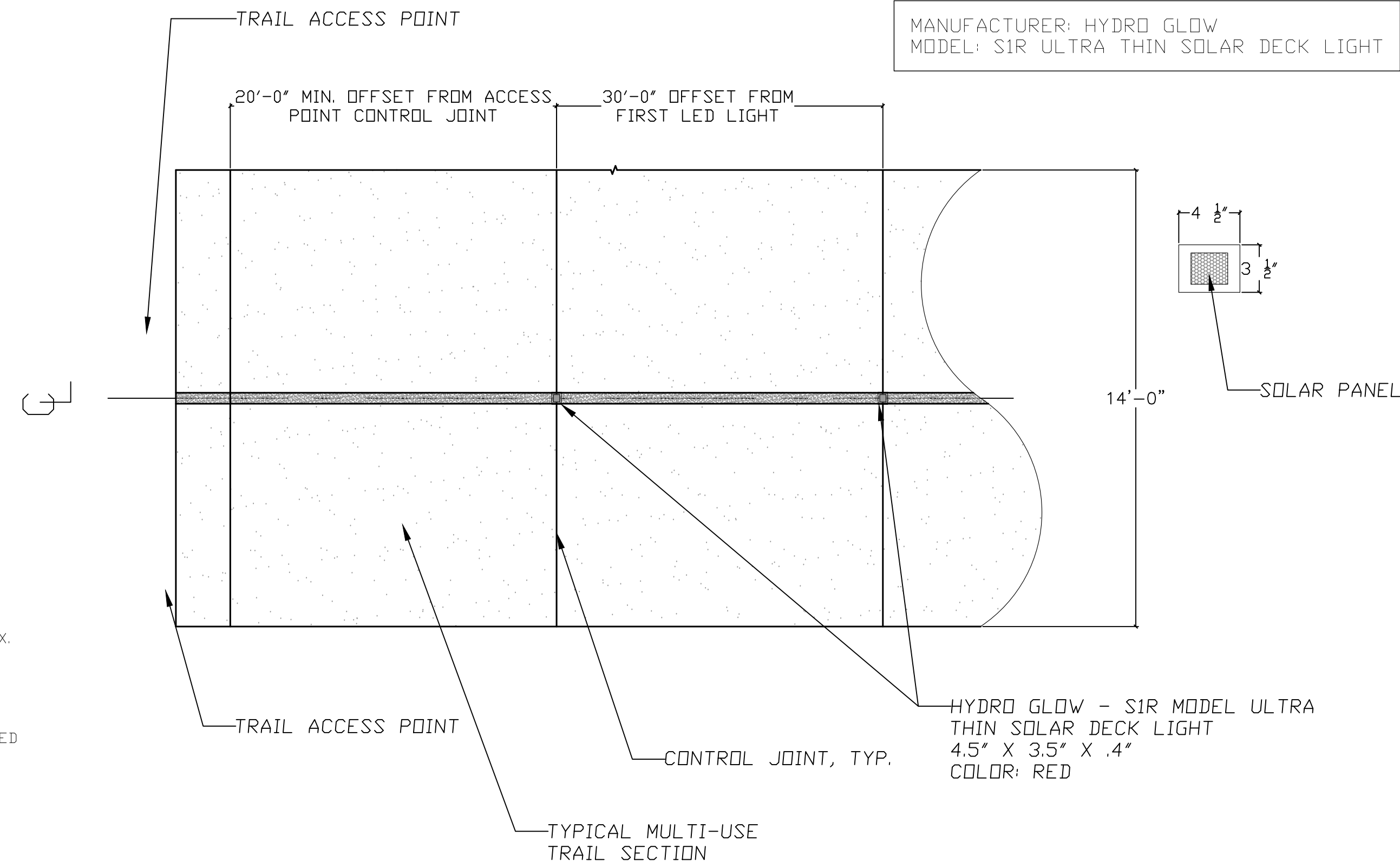
- NOTES:
- CONTRACTOR TO CONTACT ABI REPRESENTATIVE BEFORE ORDER AND INSTALL FOR APPROVAL OF PRODUCT OPTIONS, QUANTITIES, LOCATIONS, AND INSTALL PREFERENCES.
 - TRASH RECEPTACLE TO BE BOLTED, PER MANUFACTURER'S SPECIFICATIONS, TO A 4" THICK CONCRETE PAD. CONCRETE PAD TO HAVE DIMENSIONS, AT MINIMUM, OF 3'-0" OFFSET FROM CENTER OF TRASH RECEPTACLE.

1 TRASH RECEPTACLE
1" = 2" SCALE

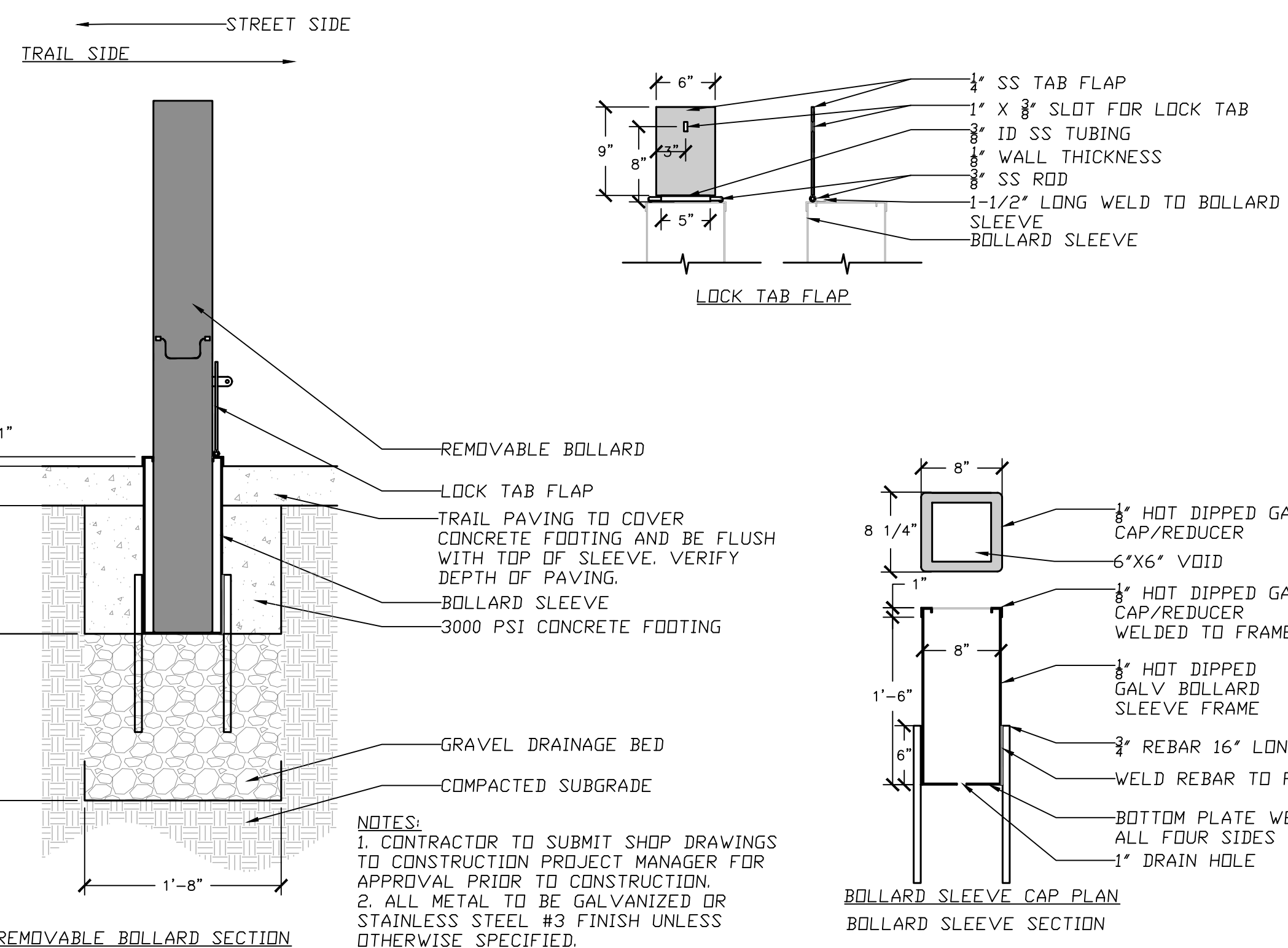


3 BOLLARD
1" = 1" SCALE

MANUFACTURER: HYDRO GLOW
MODEL: SIR ULTRA THIN SOLAR DECK LIGHT



2 SOLAR LED LIGHT
NOT TO SCALE



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

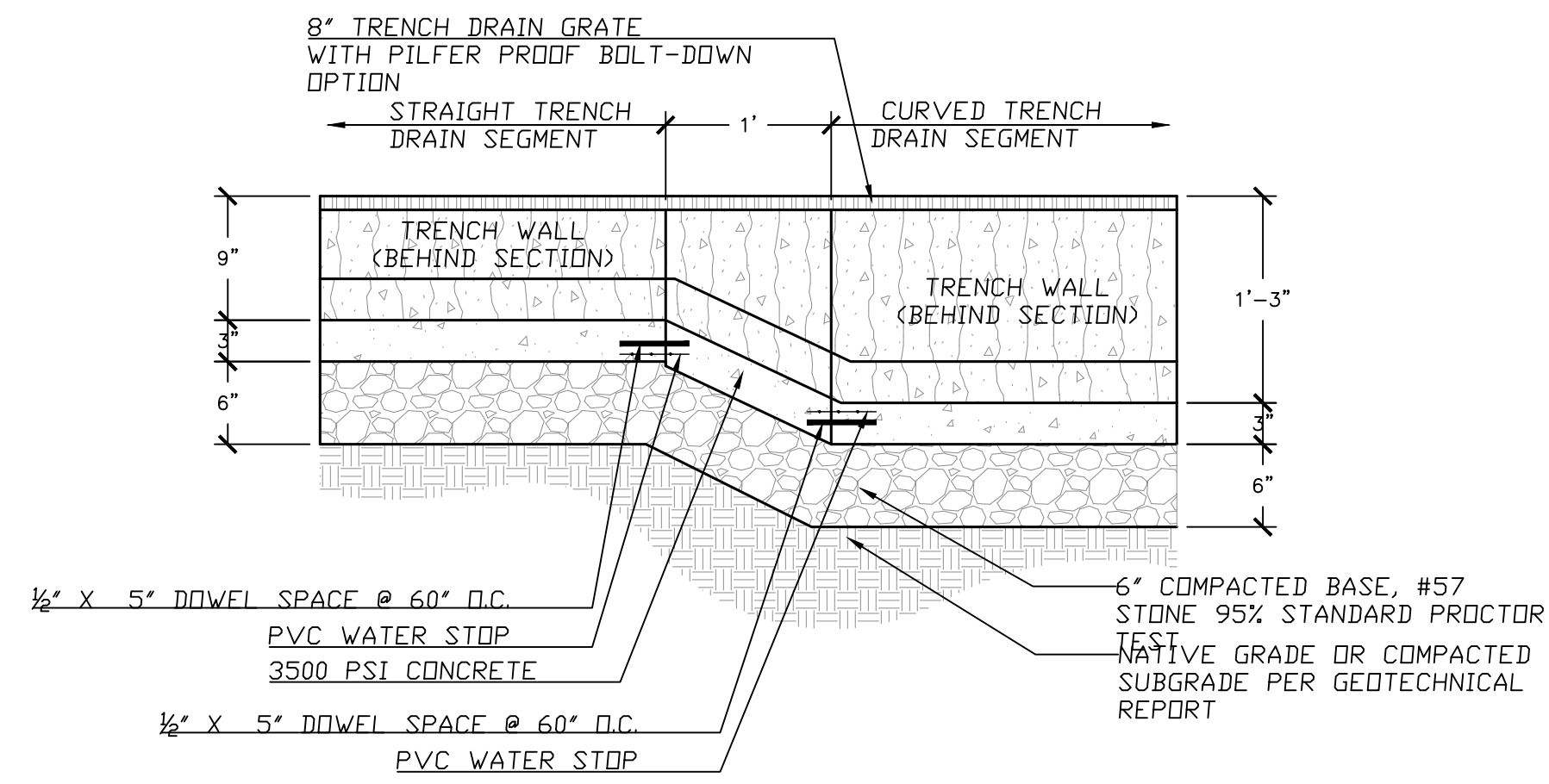
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

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THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

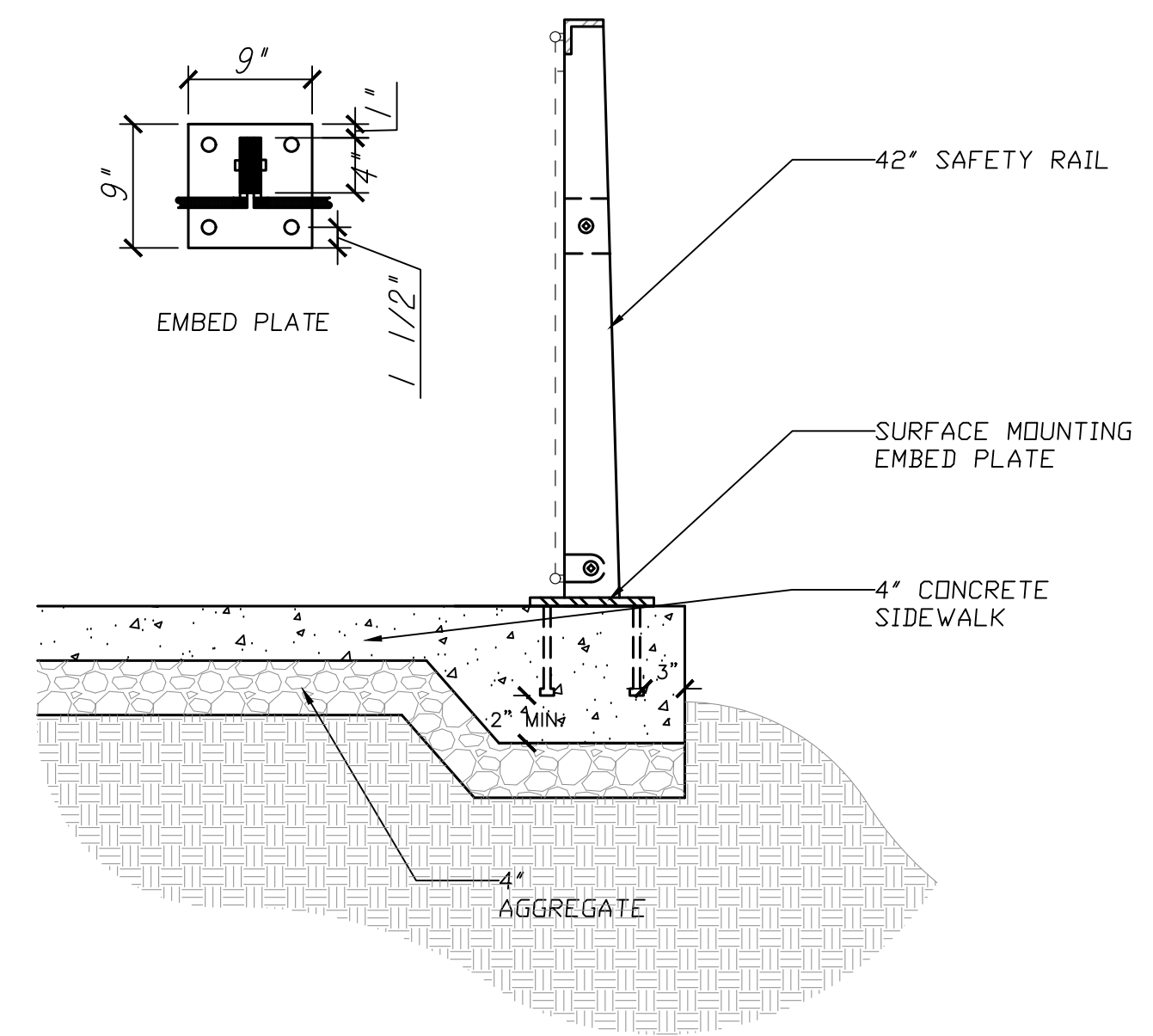
REVISION DATES	

SPECIAL CONSTRUCTION DETAIL
ATLANTA BELTLINE NORTHEAST TRAIL

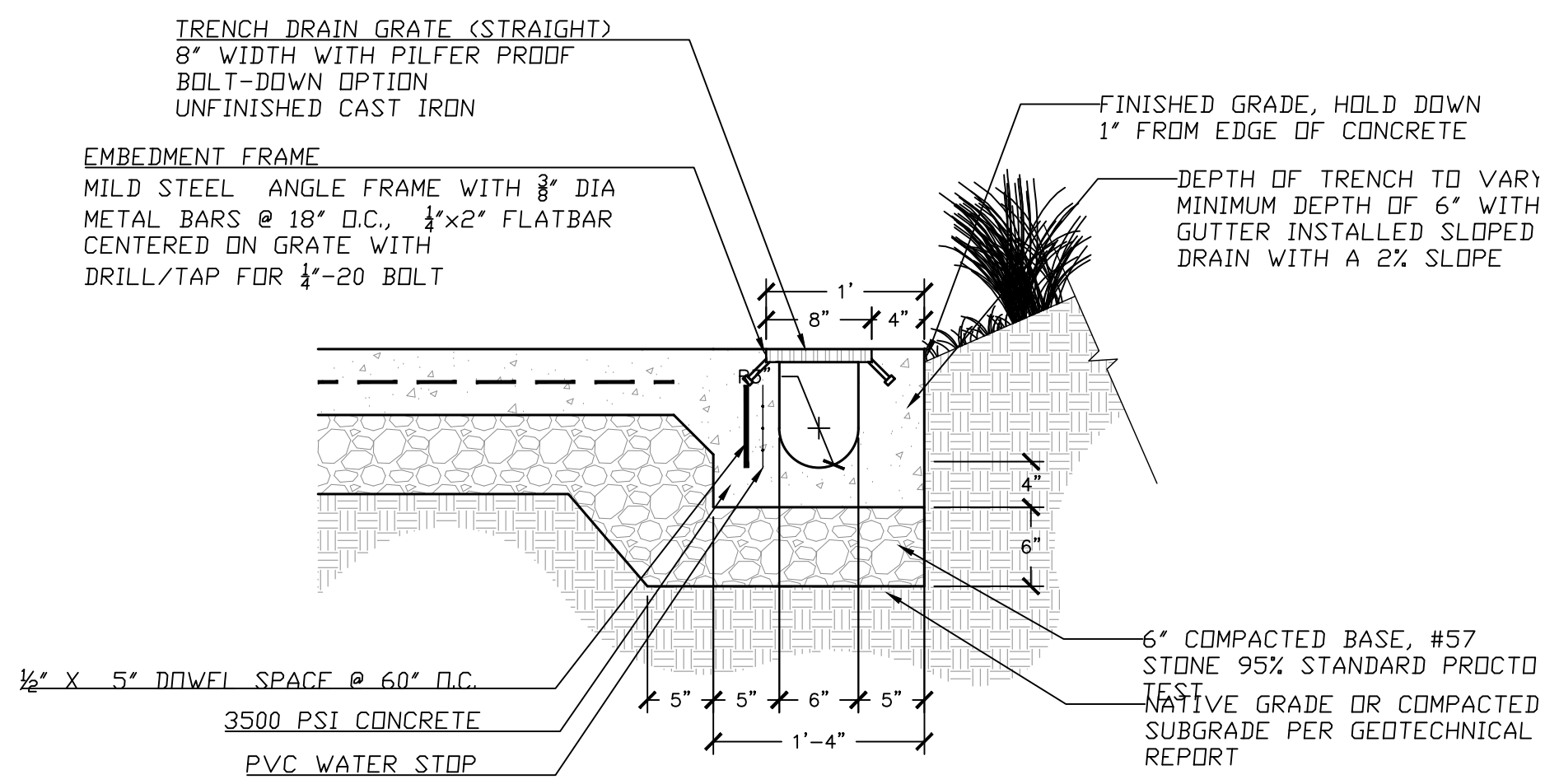
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	38-004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



1 TRENCH DRAIN - TRANSITION BETWEEN SEGMENTS
1" = 1" SCALE

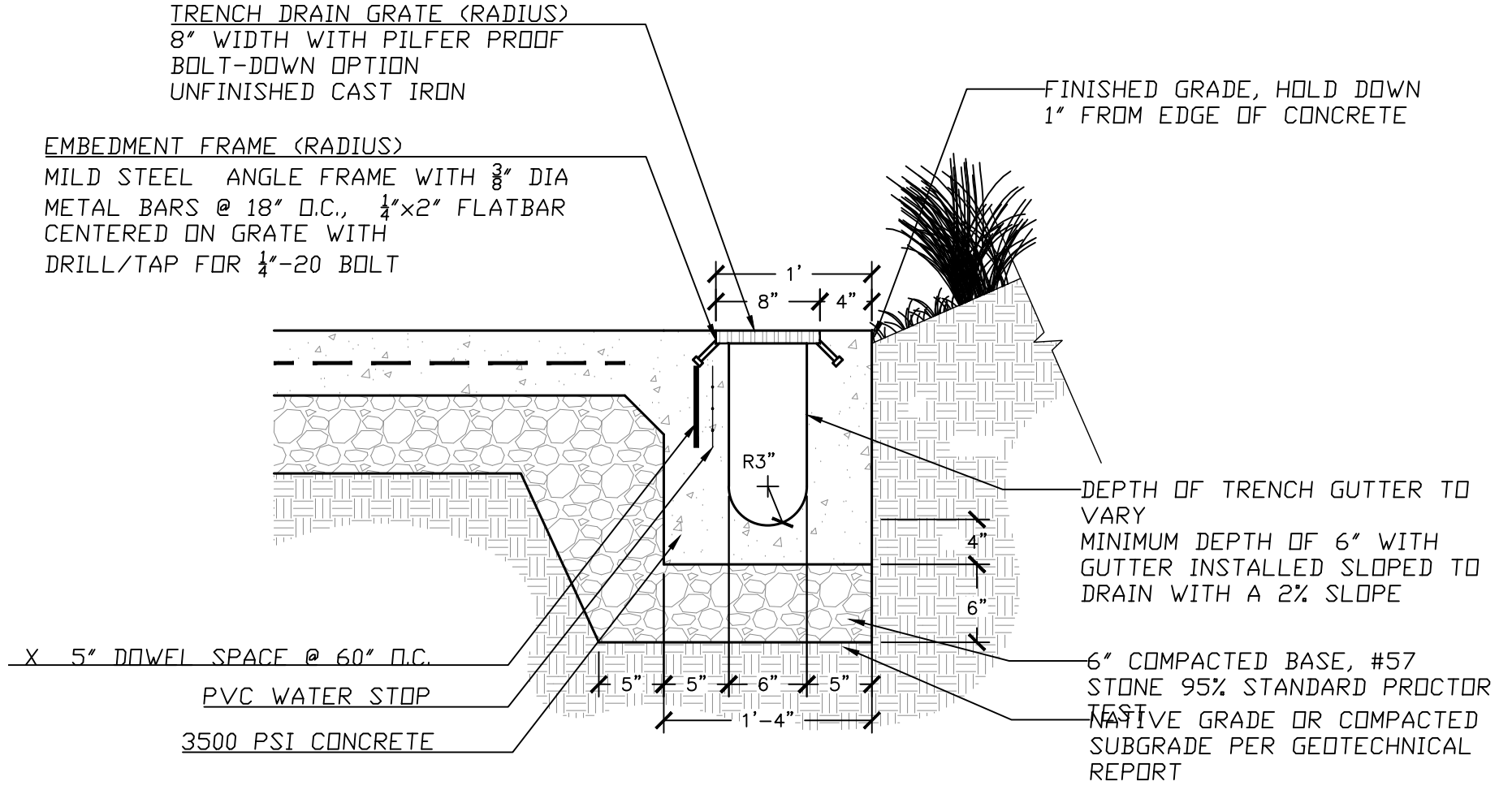


2 SAFETY RAIL - PIEDMONT AVE SIDEWALK
1" = 1" SCALE



- NOTES:
- TRENCH GRATE COMPONENTS (GRATE, FRAME & ANCHOR STUD) SHALL BE SIZED ACCORDINGLY FOR A 8" GRATE WITH TAMPER PROOF HARDWARE
 - INSTALL TRENCH DRAIN COMPONENTS PER MANUFACTURER'S SPECIFICATIONS
 - INSTALL WATER STOP PER MANUFACTURER'S SPECIFICATIONS
 - SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL

3 TRENCH DRAIN - STRAIGHT SEGMENT
1" = 1" SCALE



- NOTES:
- TRENCH GRATE COMPONENTS (GRATE, FRAME & ANCHOR STUD) SHALL BE 8" TRENCH GRATE WITH PILFER PROOF BOLT-DOWN BY IRON AGE DESIGNS OR APPROVED EQUAL. SPECIFY STRAIGHT AND RADIUS SEGMENTS
 - INSTALL TRENCH DRAIN COMPONENTS PER MANUFACTURER'S SPECIFICATIONS
 - INSTALL WATER STOP PER MANUFACTURER'S SPECIFICATIONS
 - TRENCH, FRAME AND GRATE WILL MATCH RADIUS OF PATH

4 TRENCH DRAIN - CURVED SEGMENT
1" = 1" SCALE

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF SLOPES	▨
TEMPORARY EASEMENT FOR CONST. OF DRIVES	▨

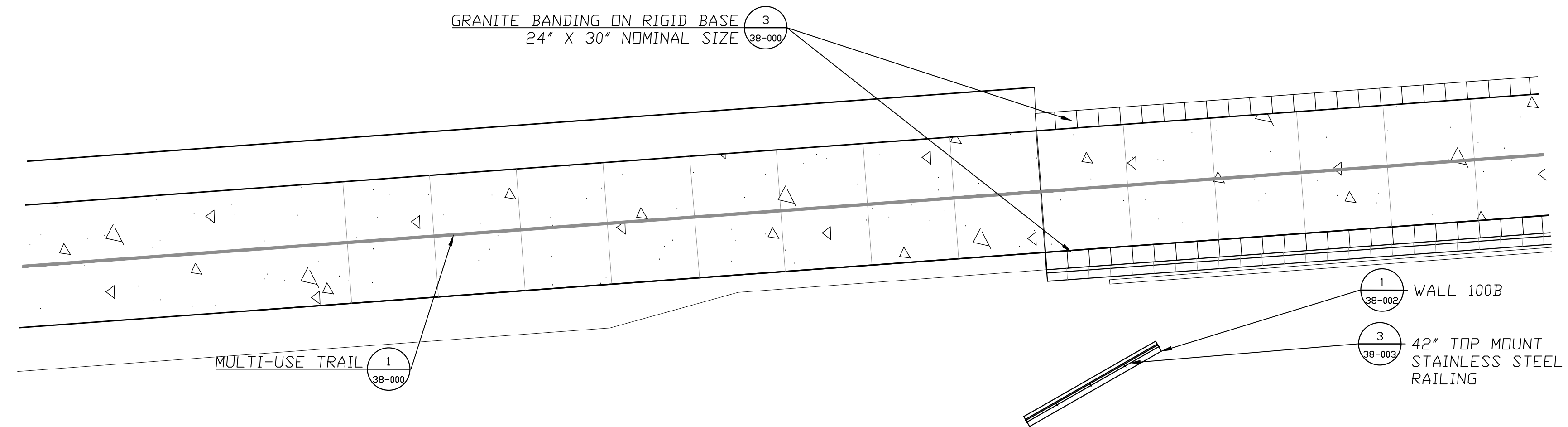
Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
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ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

REVISION DATES	

SPECIAL CONSTRUCTION DETAIL
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 38-005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROJECT OR
REVISION
DATE
PROJECT OR
REVISION
DATE
PROJECT OR
REVISION
DATE

PROJECT OR
REVISION
DATE
PROJECT OR
REVISION
DATE
PROJECT OR
REVISION
DATE

PIEDMONT SOUTH
1" = 10'

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

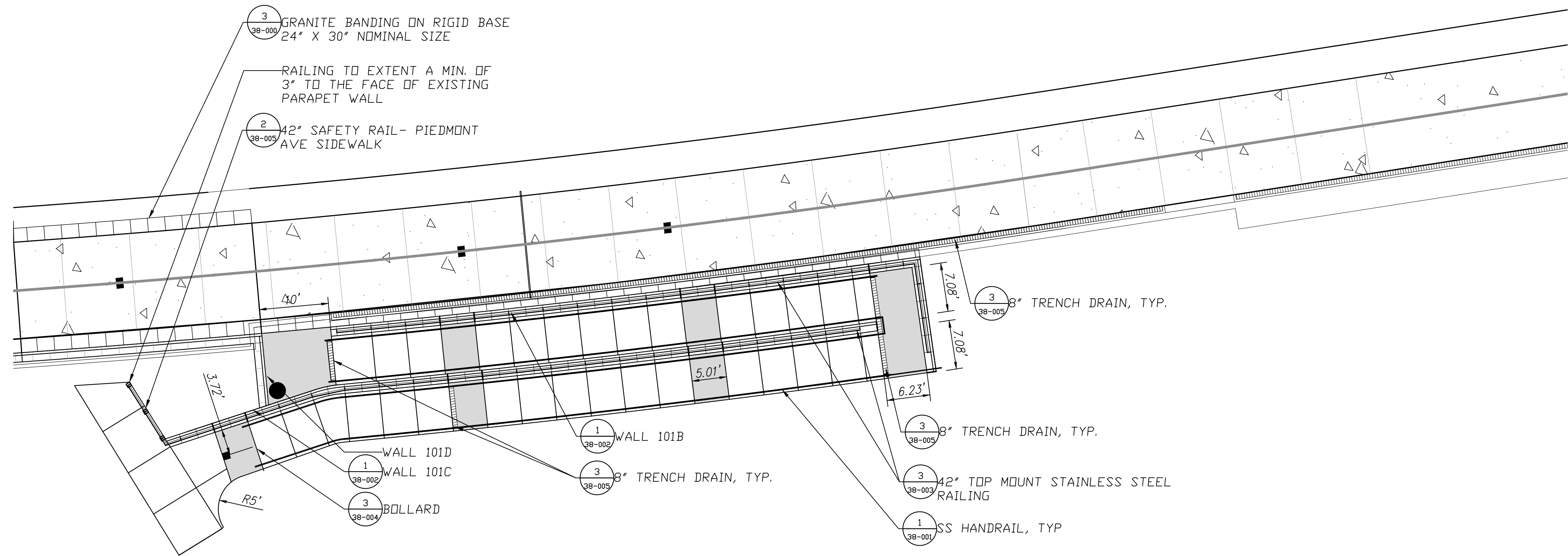
Atlanta BeltLine
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100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
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ATLANTA, GEORGIA 30308
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REVISION DATES	

SPECIAL CONSTRUCTION DETAIL
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 38-006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



○ PIEDMONT NORTH VERTICAL CONNECTION
 1" = 10'

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
PERMANENT EASEMENT FOR CONST. & MAINTENANCE OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF SLOPES	
TEMPORARY EASEMENT FOR CONST. OF DRIVES	

Atlanta BeltLine

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 TEL: (404) 477-3003
 FAX: (404) 477-3606

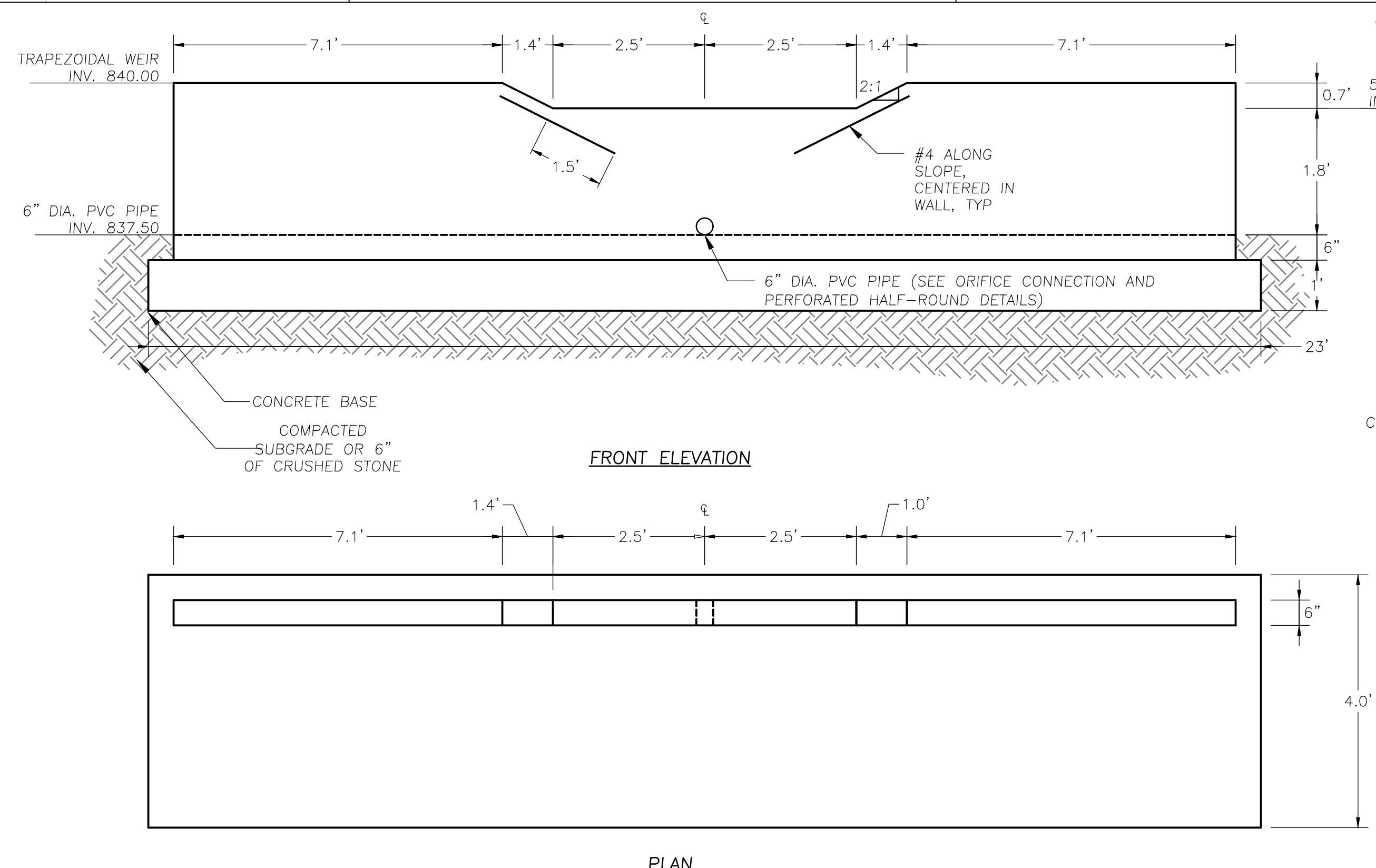
Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

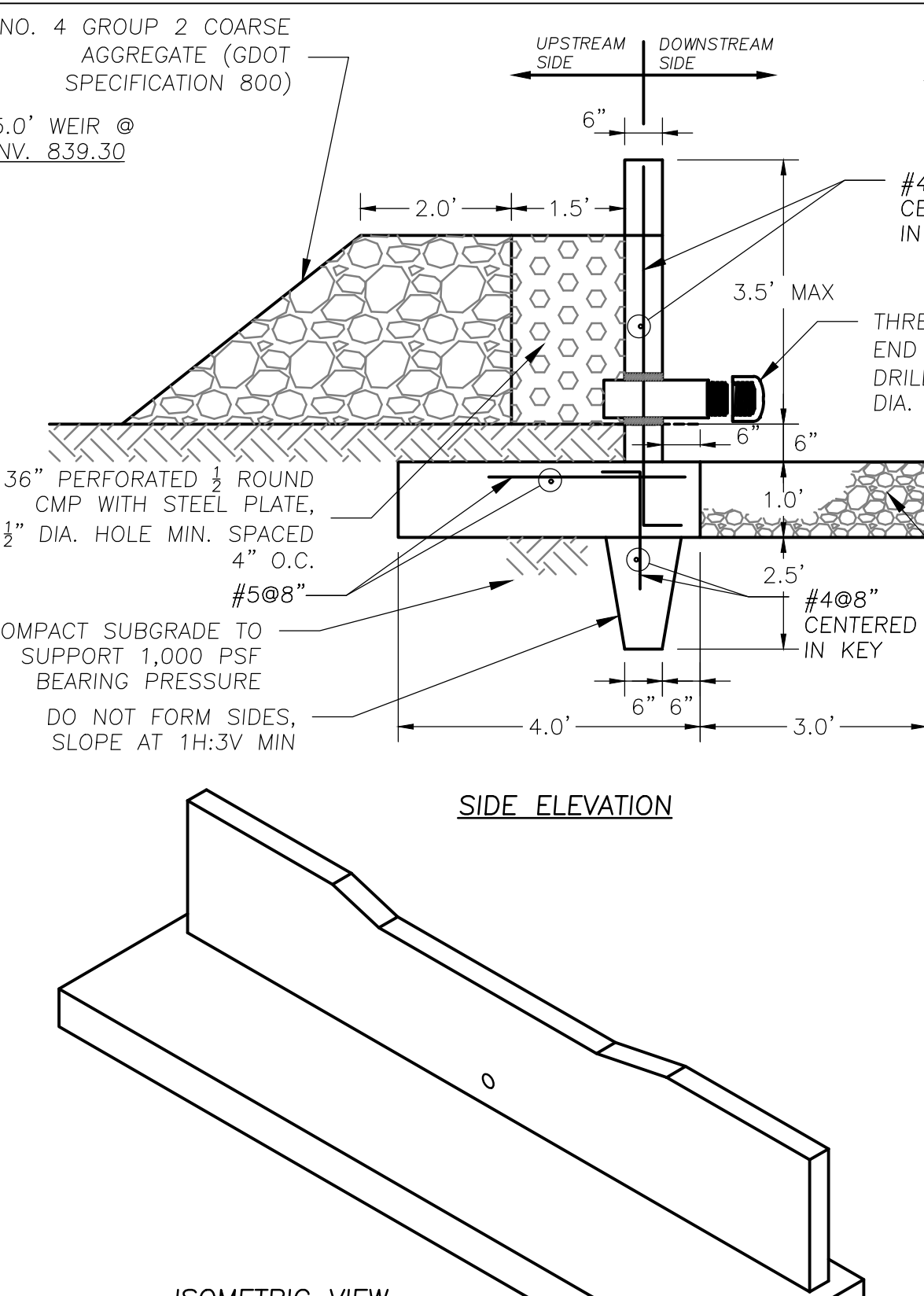
REVISION DATES	

SPECIAL CONSTRUCTION DETAIL
 ATLANTA BELTLINE NORTHEAST TRAIL

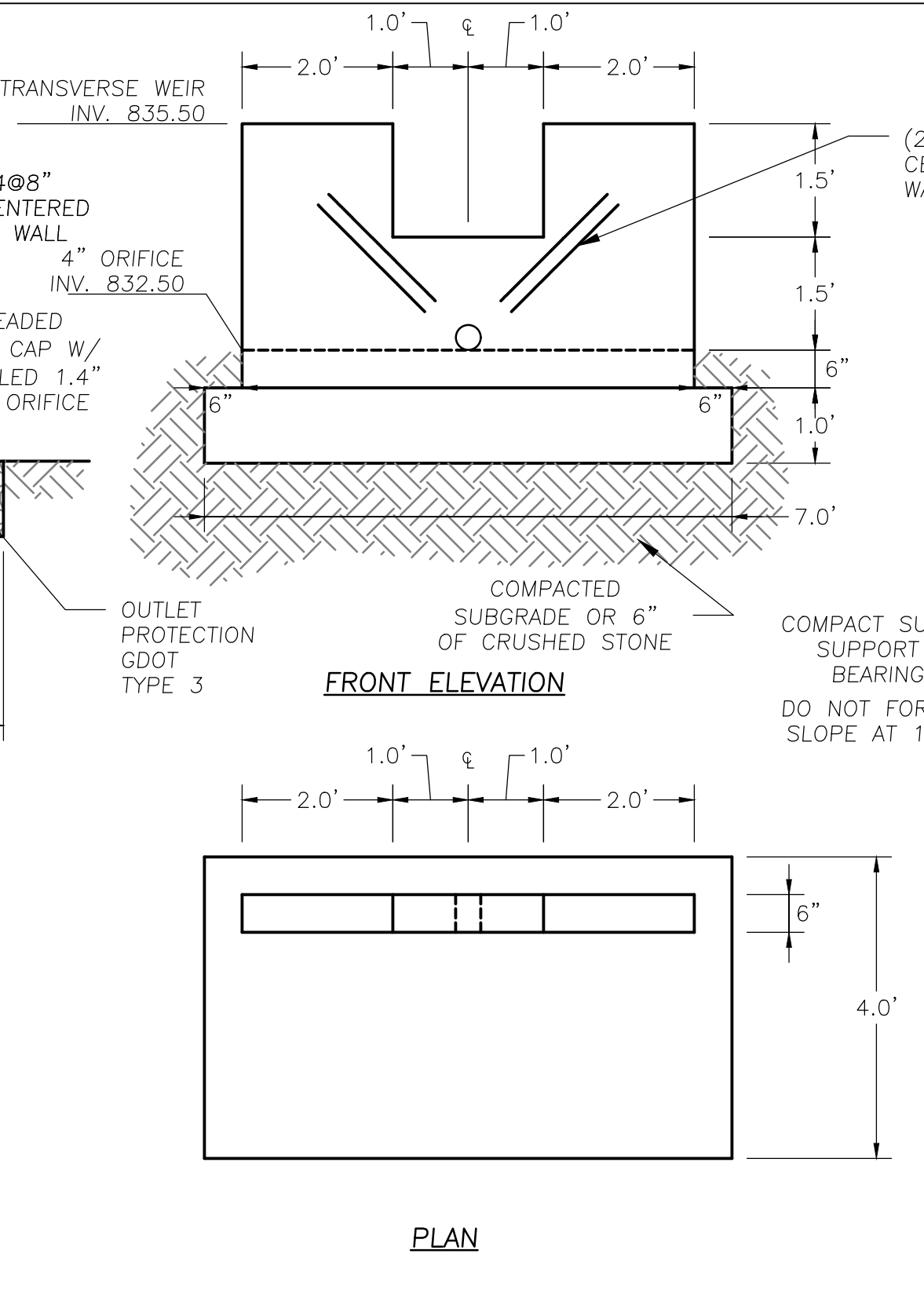
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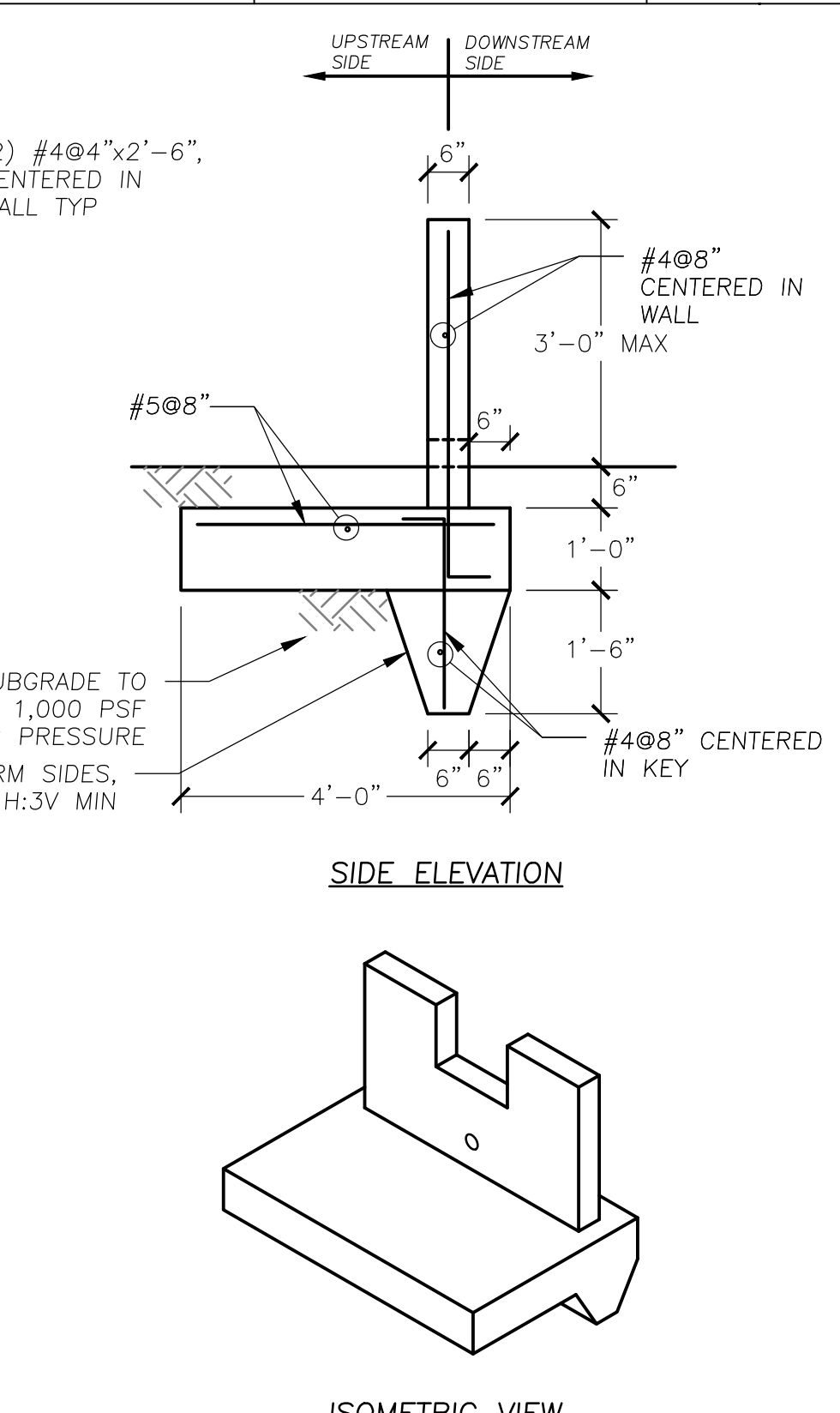
1 SWALE OUTLET CONTROL STRUCTURE A-2A
1/2" = 1'-0"



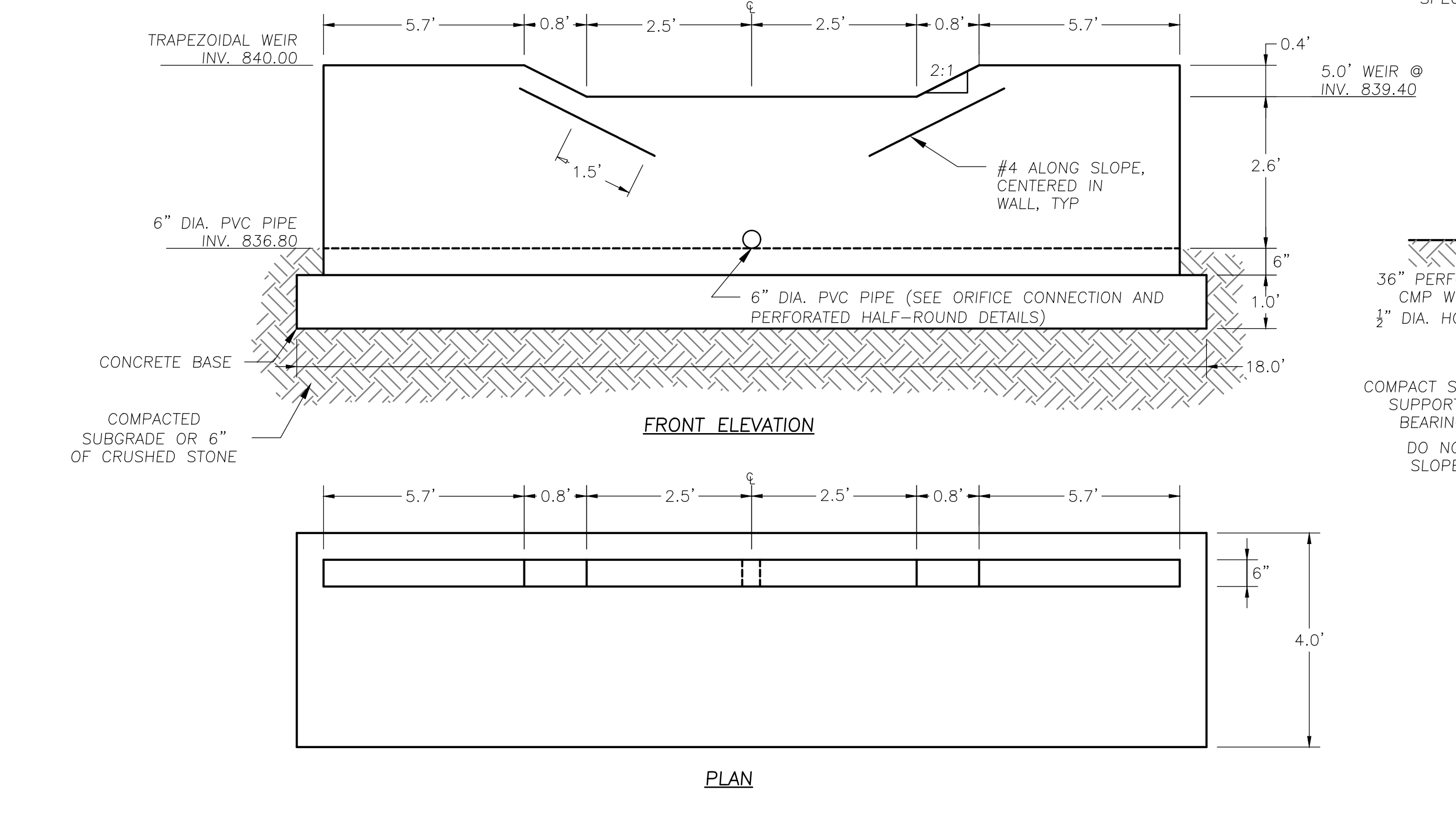
ISOMETRIC VIEW



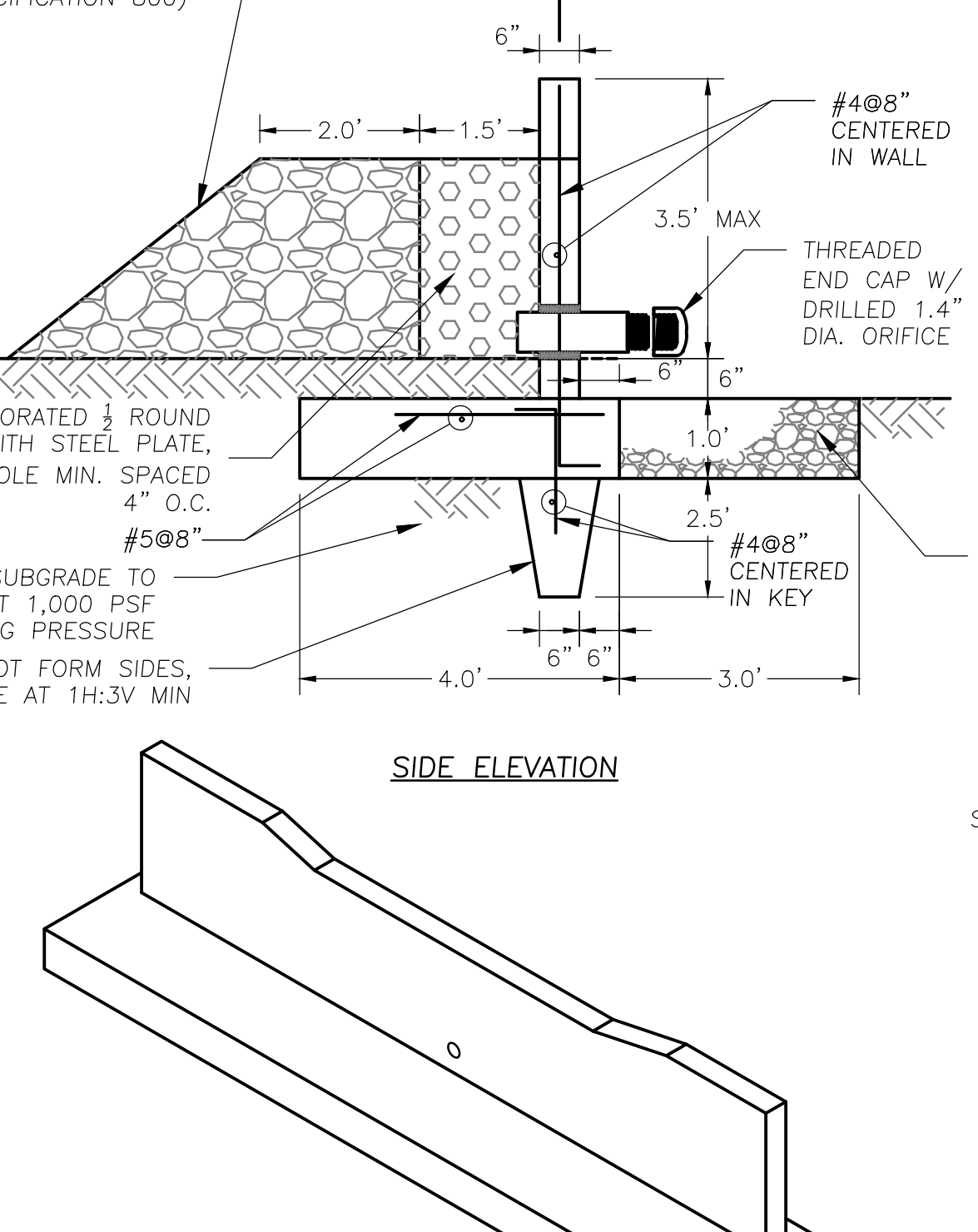
2 SWALE OUTLET CONTROL STRUCTURE B-4
1/2" = 1'-0"



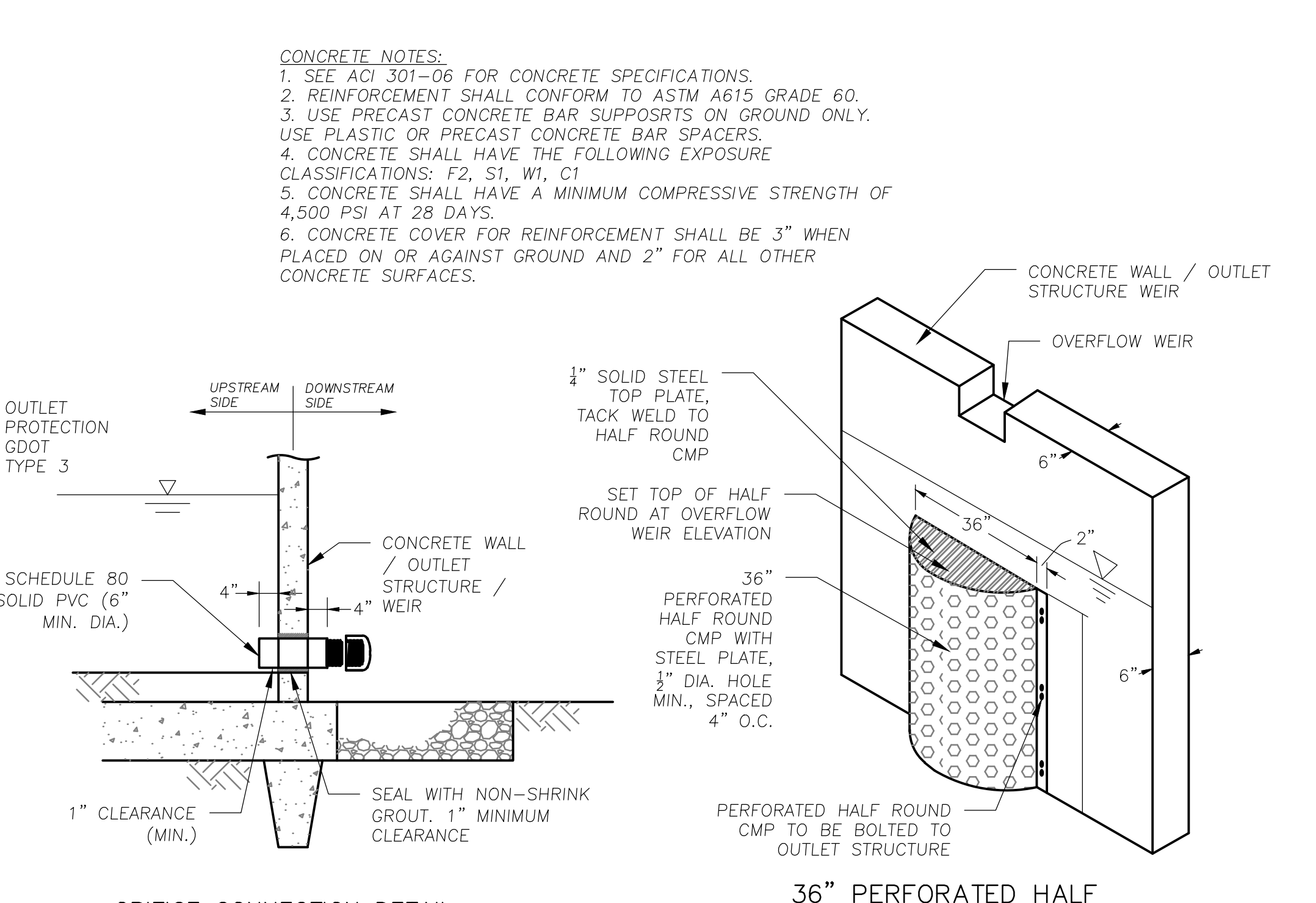
ISOMETRIC VIEW



3 SWALE OUTLET CONTROL STRUCTURE A-2B
1/2" = 1'-0"



ISOMETRIC VIEW

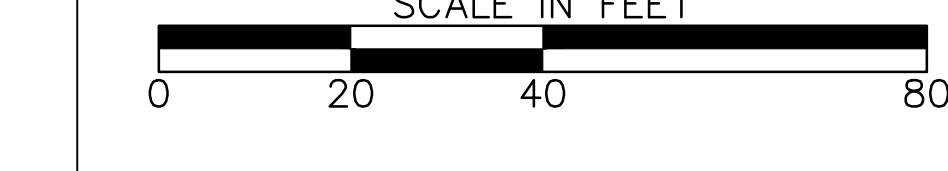


ORIFICE CONNECTION DETAIL
36" PERFORATED HALF ROUND HDPE WITH STEEL PLATE

CONCRETE NOTES:
 1. SEE ACI 301-06 FOR CONCRETE SPECIFICATIONS.
 2. REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
 3. USE PRECAST CONCRETE BAR SUPPORSTS ON GROUND ONLY. USE PLASTIC OR PRECAST CONCRETE BAR SPACERS.
 4. CONCRETE SHALL HAVE THE FOLLOWING EXPOSURE CLASSIFICATIONS: F2, S1, W1, C1
 5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
 6. CONCRETE COVER FOR REINFORCEMENT SHALL BE 3" WHEN PLACED ON OR AGAINST GROUND AND 2" FOR ALL OTHER CONCRETE SURFACES.

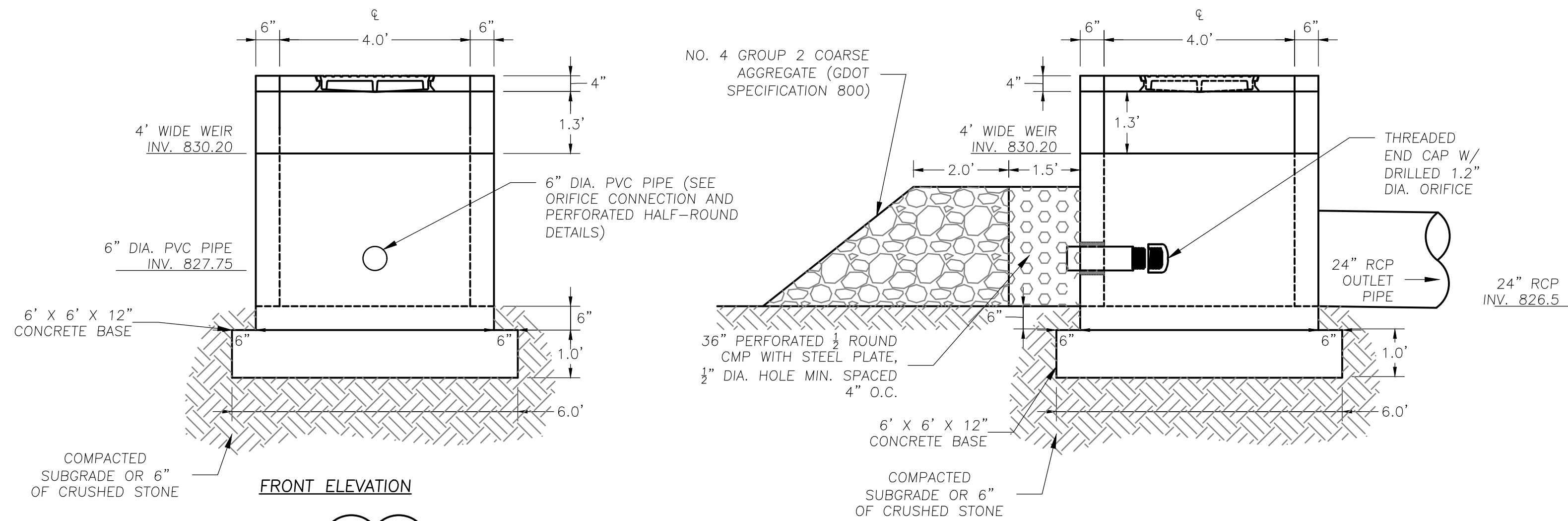


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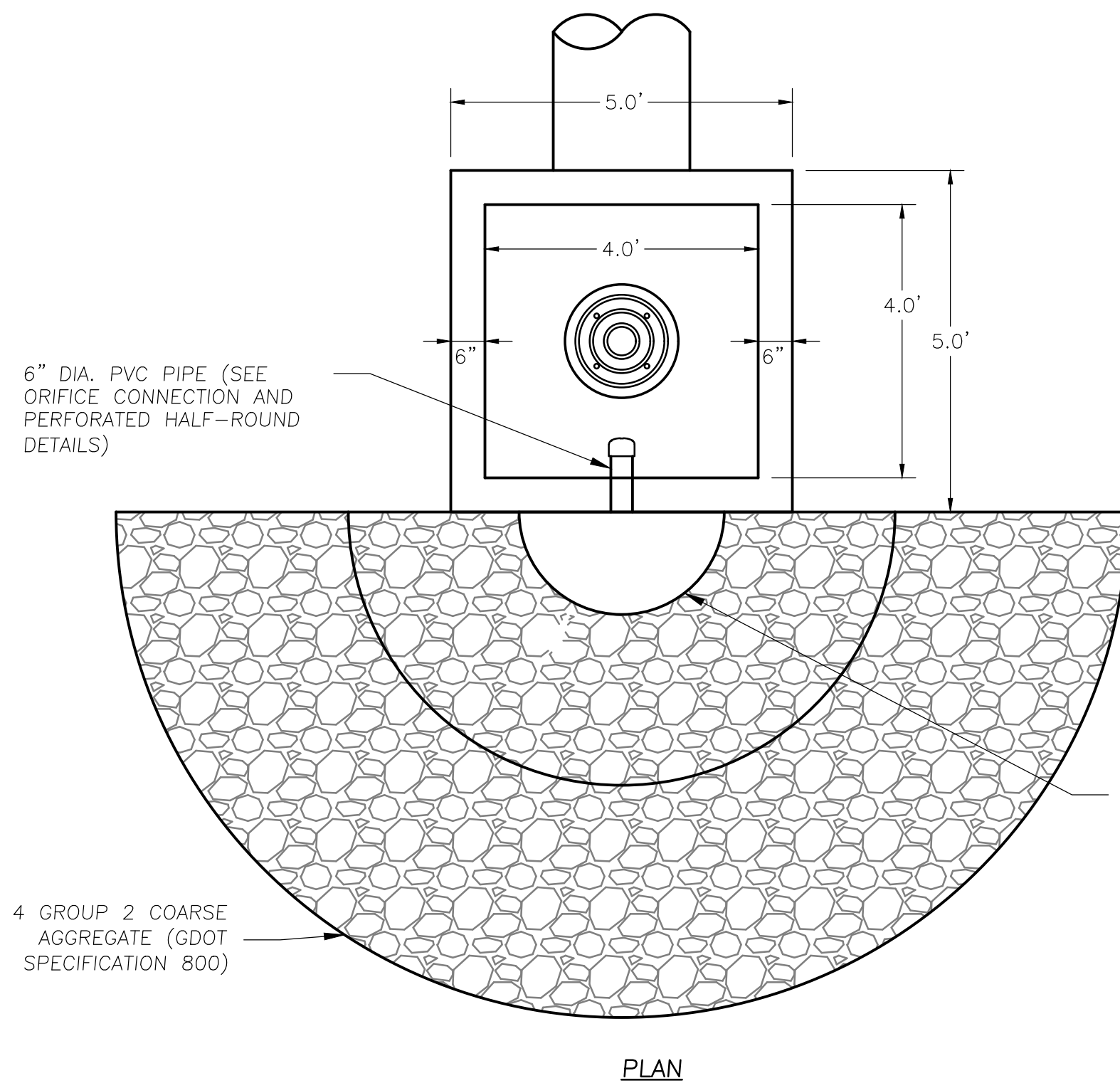
REVISION DATES	

CONSTRUCTION DETAILS ATLANTA BELTLINE NORTHEAST TRAIL			
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BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			38-100

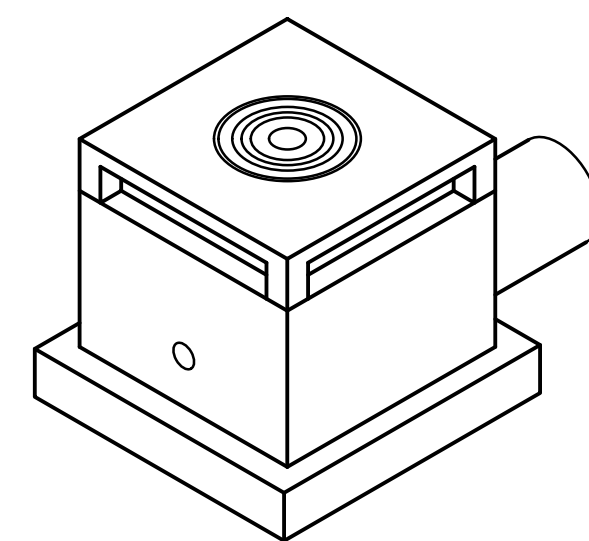


FRONT ELEVATION

SIDE ELEVATION

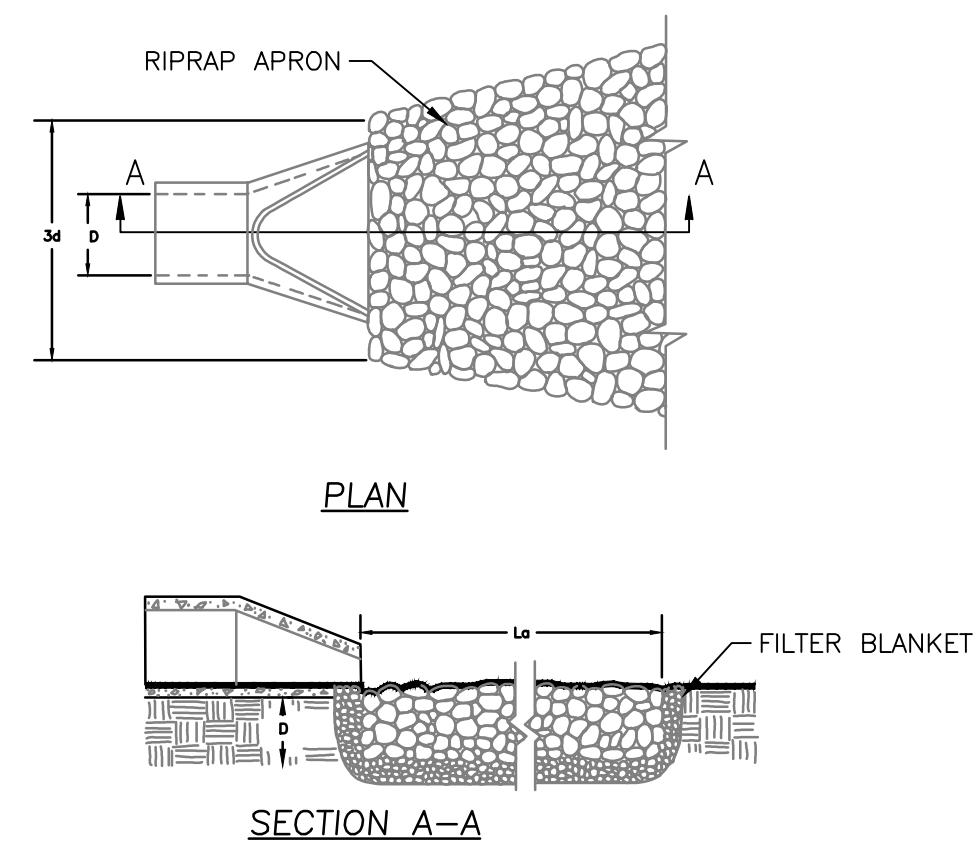


PLAN



ISOMETRIC VIEW

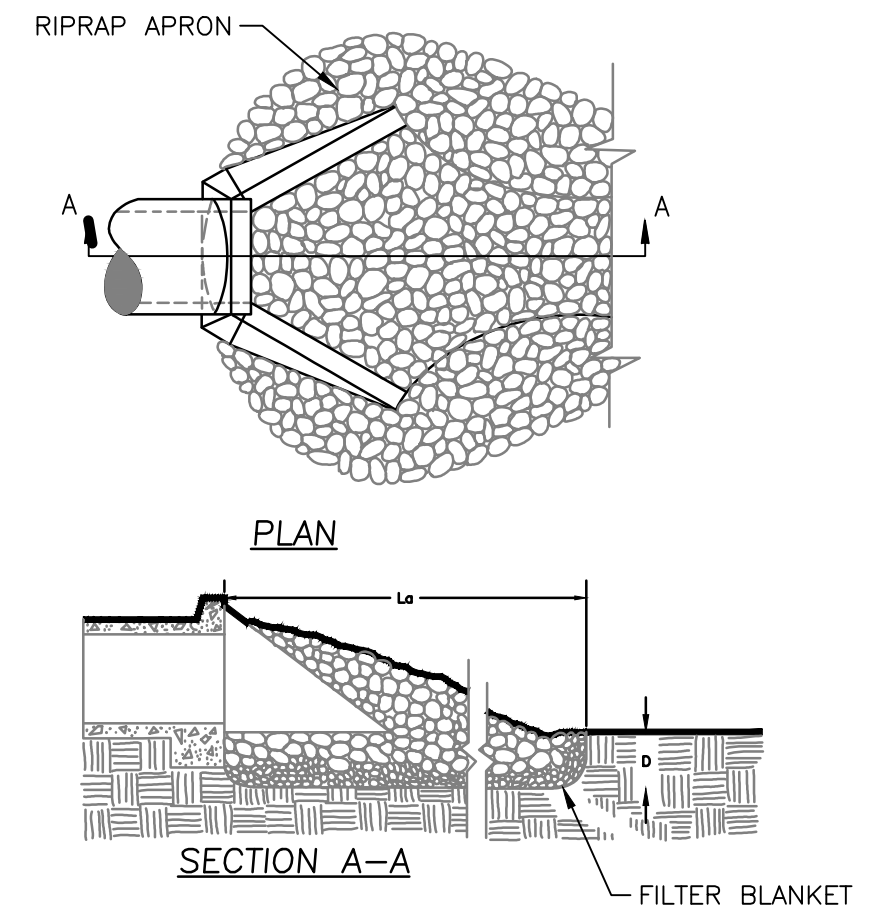
PIPE OUTLET TO FLAT AREA - NO WELL DEFINED CHANNEL



PLAN

SECTION A-A

PIPE OUTLET TO WELL DEFINED CHANNEL



PLAN

SECTION A-A

NOTES:

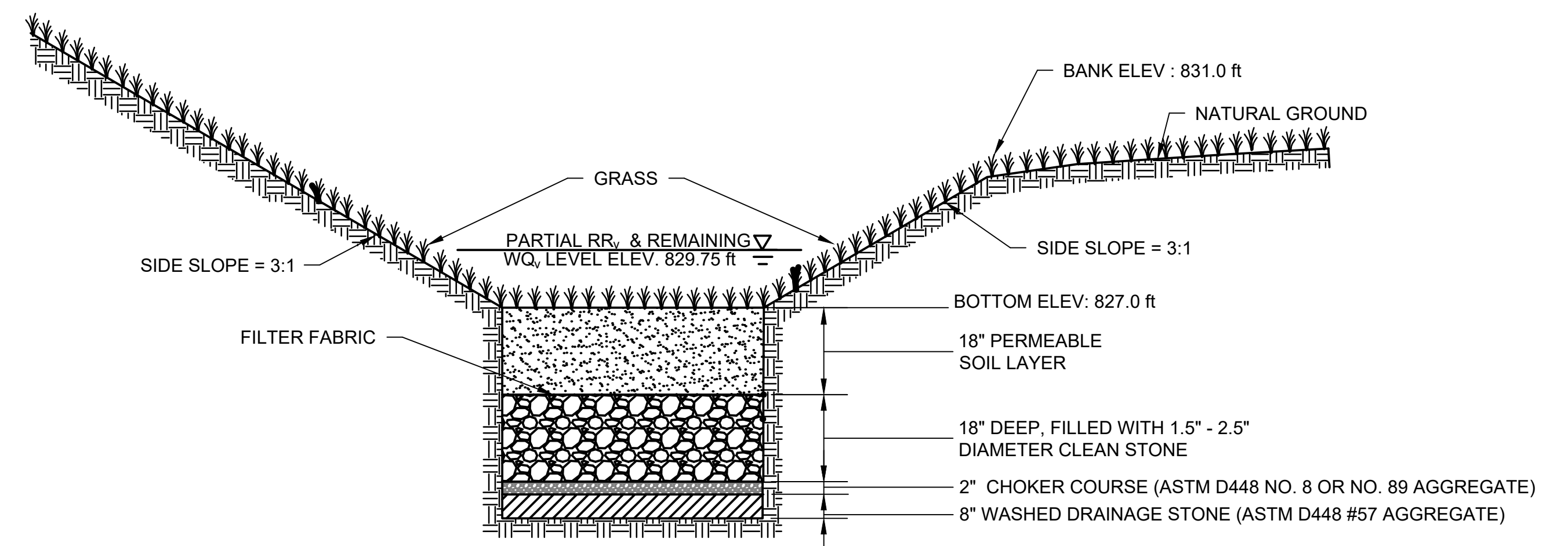
1. L_0 IS THE LENGTH OF THE RIPRAP APRON.
2. $D = 1.5$ TIMES THE MAXIMUM STONE BUT NOT LESS THAN 6" DIAMETER
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

RIPRAP OUTLET PROTECTION (St)

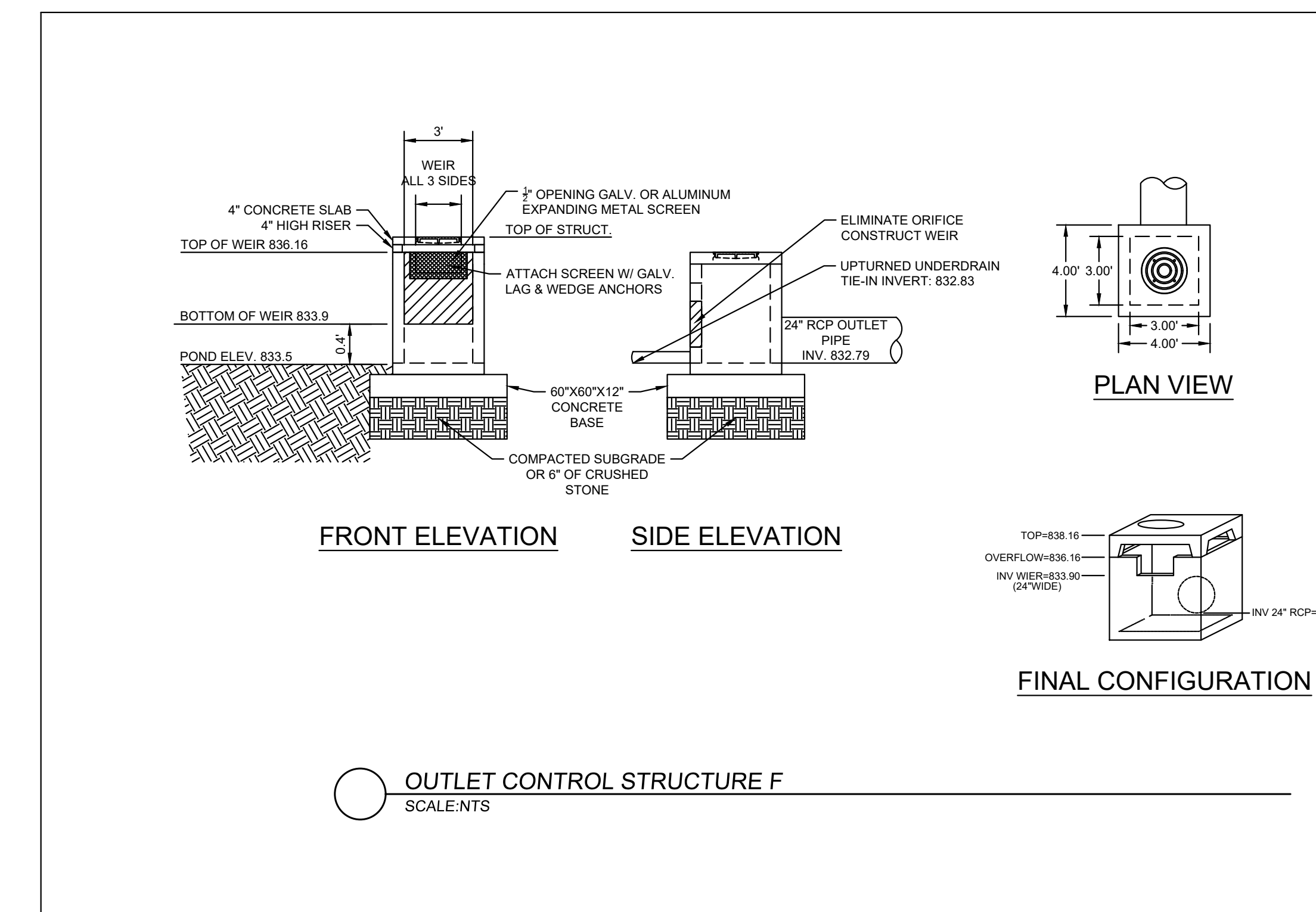
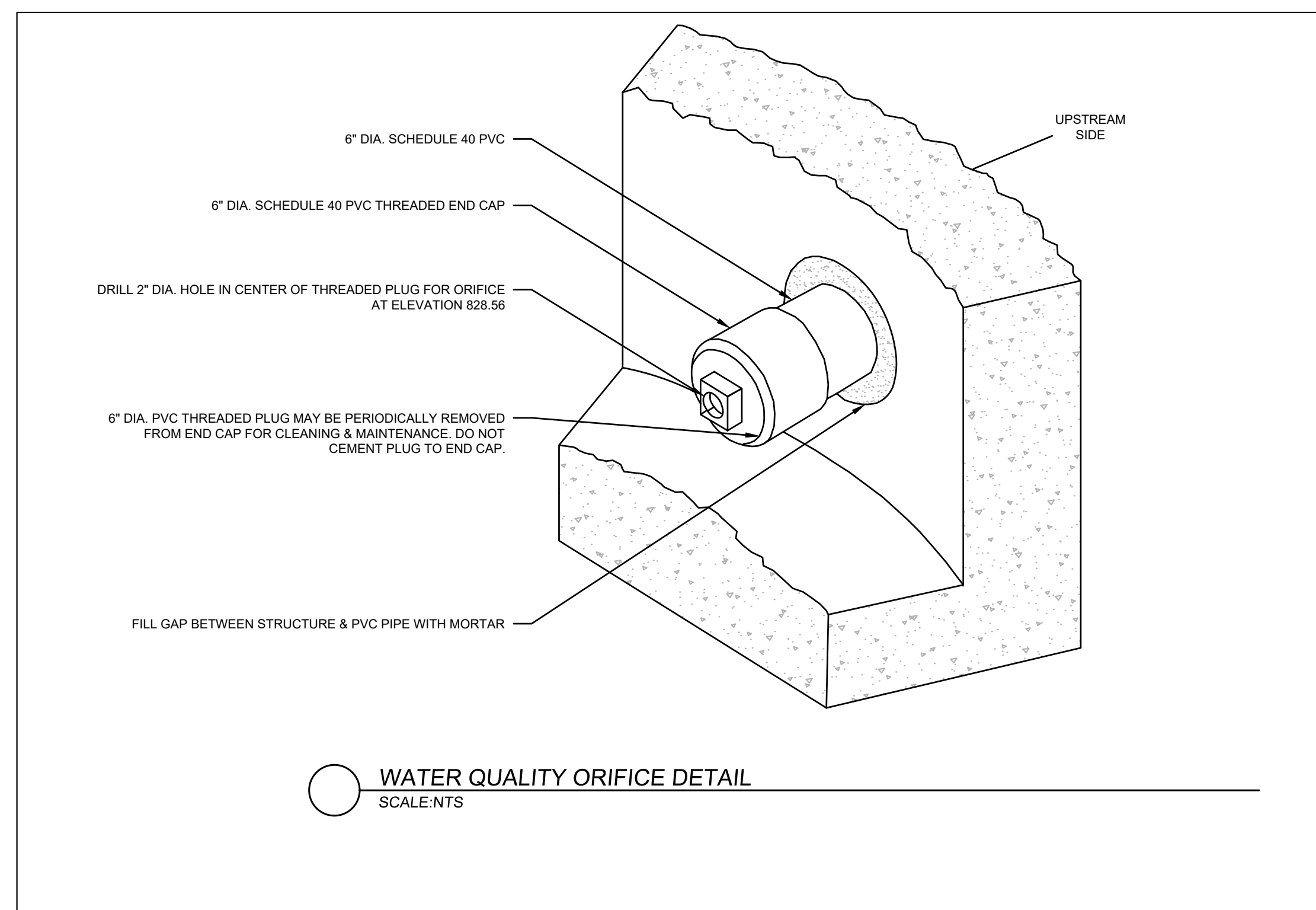
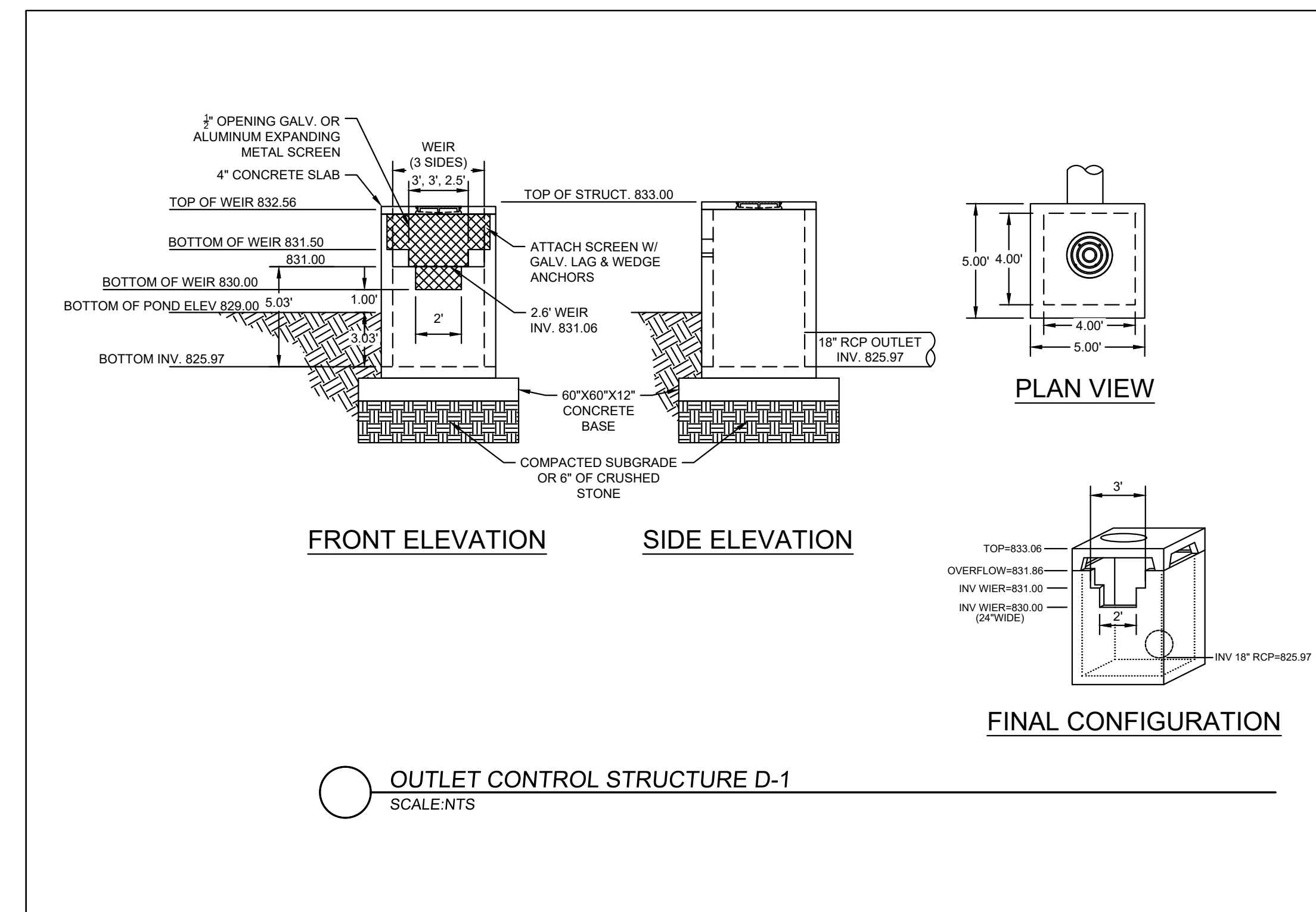
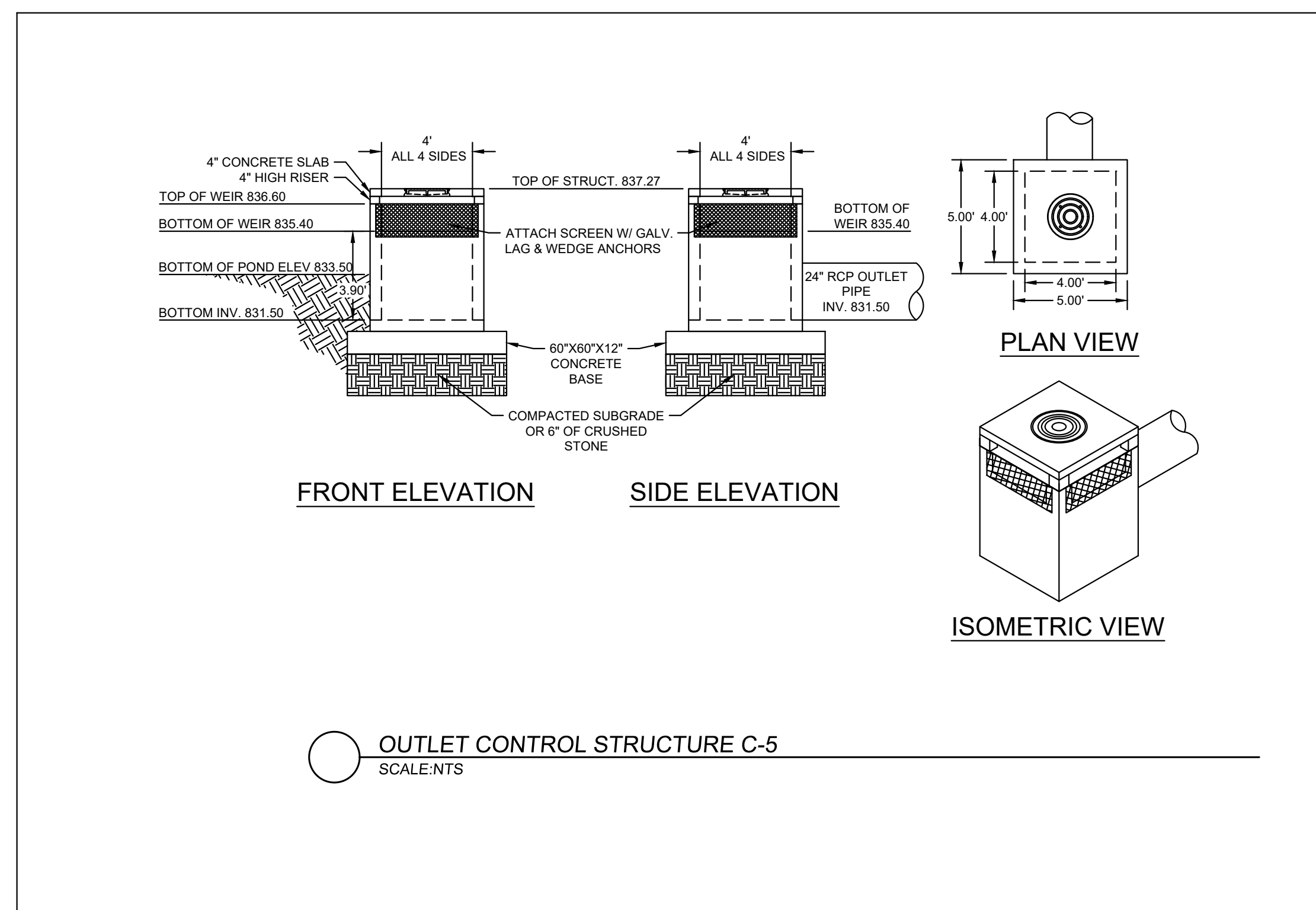
OUTFALL ID	STRUCTURE I.D.	OUTLET DIAMETER D_o (IN)	Q(25) (CFS)	V(25) (FPS)	TAILWATER CONDITION	LENGTH (FT)	UPSTREAM APRON WIDTH (FT)	DOWNSTREAM APRON WIDTH (FT)	AVG. STONE DIAMETER (d_{50})	DEPTH (IN)	RECEIVING CHANNEL SLOPE (FT/FT)
-	A-5	18	1.6	4.3	MIN.	9.0	4.5	10.5	0.3	9	0.01
B-1	-	-	17.3	9.4	MIN.	22.0	9.0	16.0	0.7	12	0.10
B-5	B-6	24	4.9	8.1	MIN.	20.0	6.0	22.0	0.7	12	0.09

4 DETENTION POND OUTLET CONTROL STRUCTURE B-5
1/2" = 1'-0"

5 RIPRAP OUTLET PROTECTION
N.T.S.

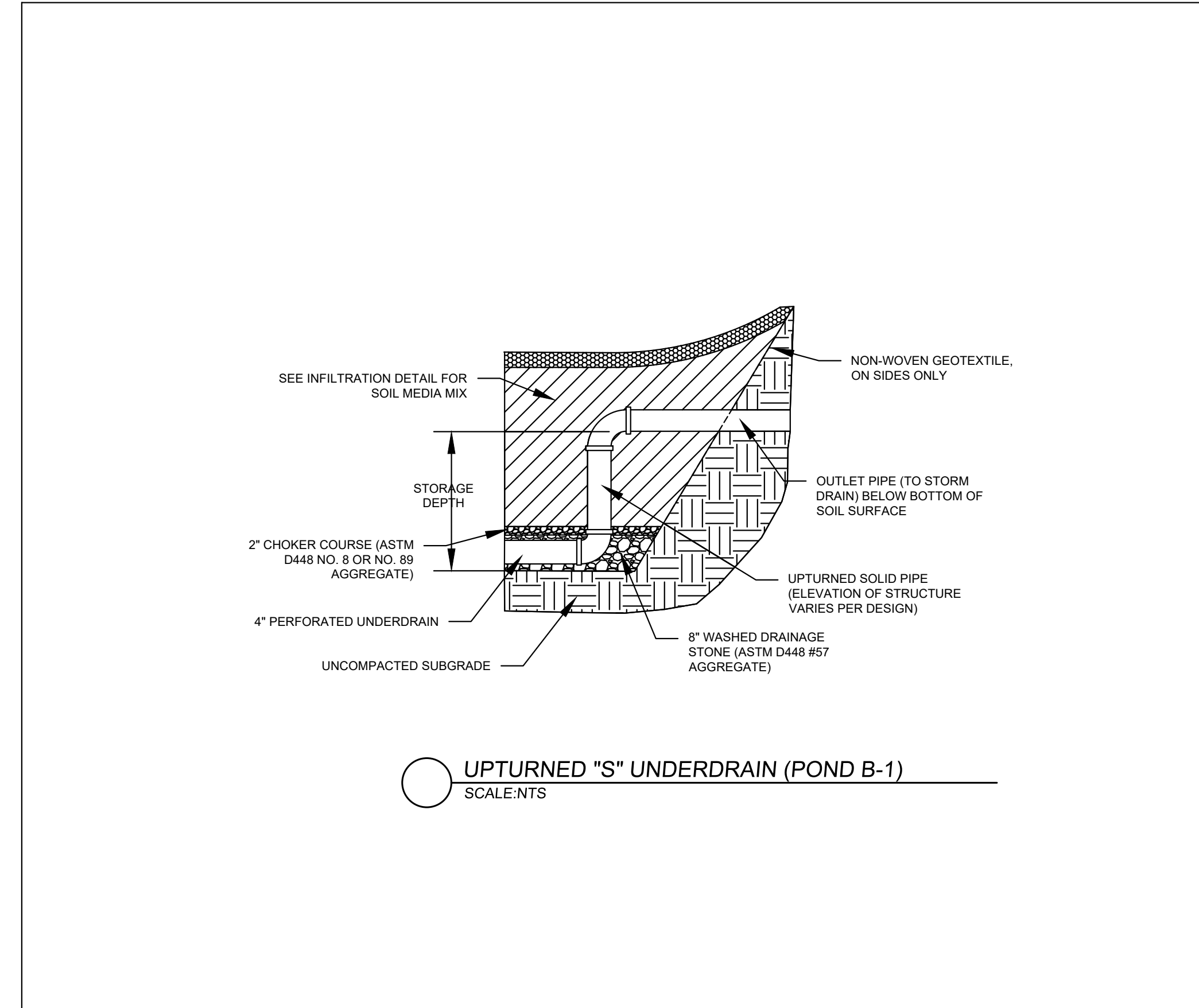
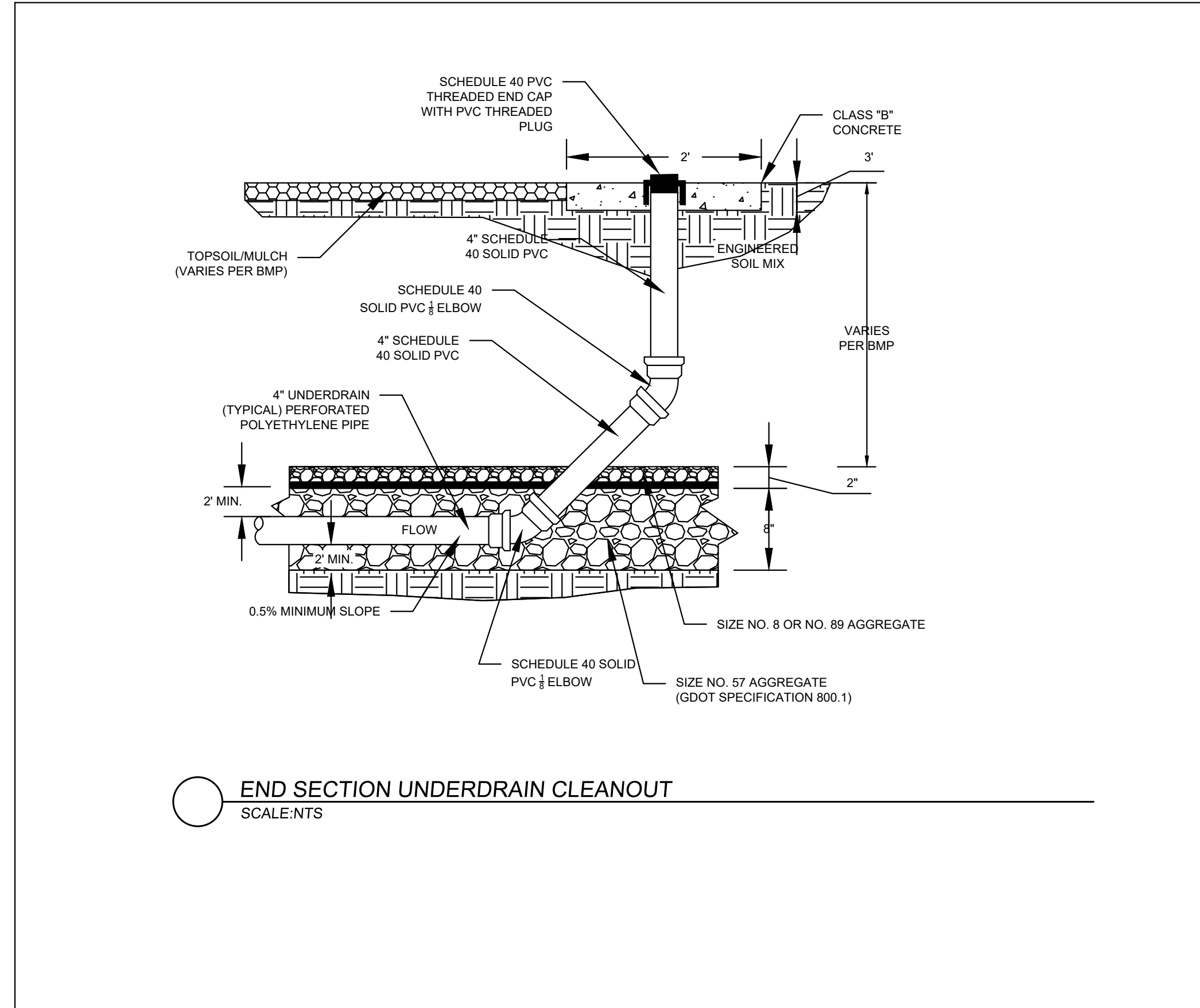


6 DETENTION POND B-1
N.T.S.



DESIGN
CHECKED
DATE

DESIGN
CHECKED
DATE

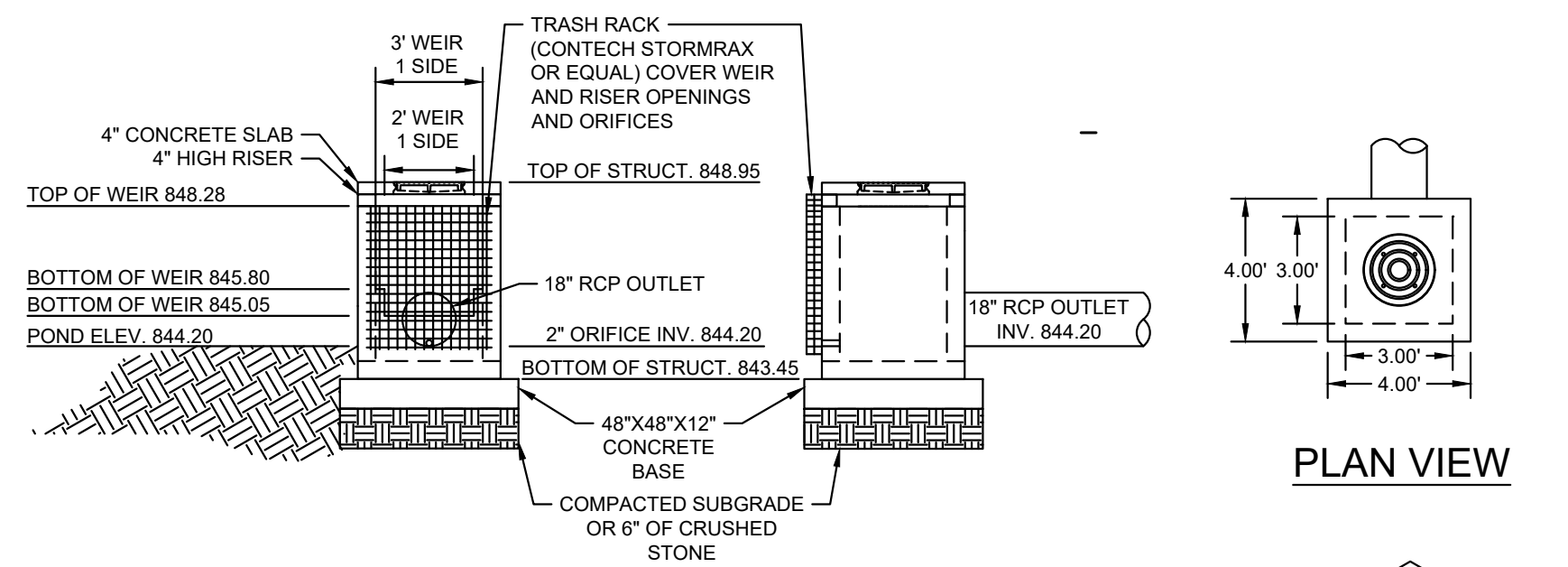


REVISION DATES

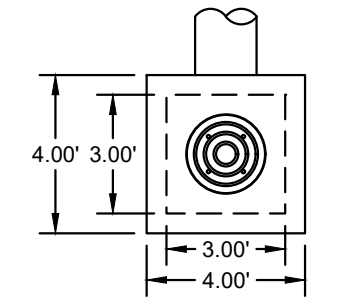
NO.	DATE	DESCRIPTION

SPECIAL CONSTRUCTION DETAIL
ATLANTA BELTLINE NORTHEAST TRAIL

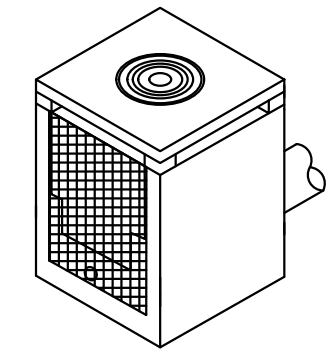
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FRONT ELEVATION SIDE ELEVATION

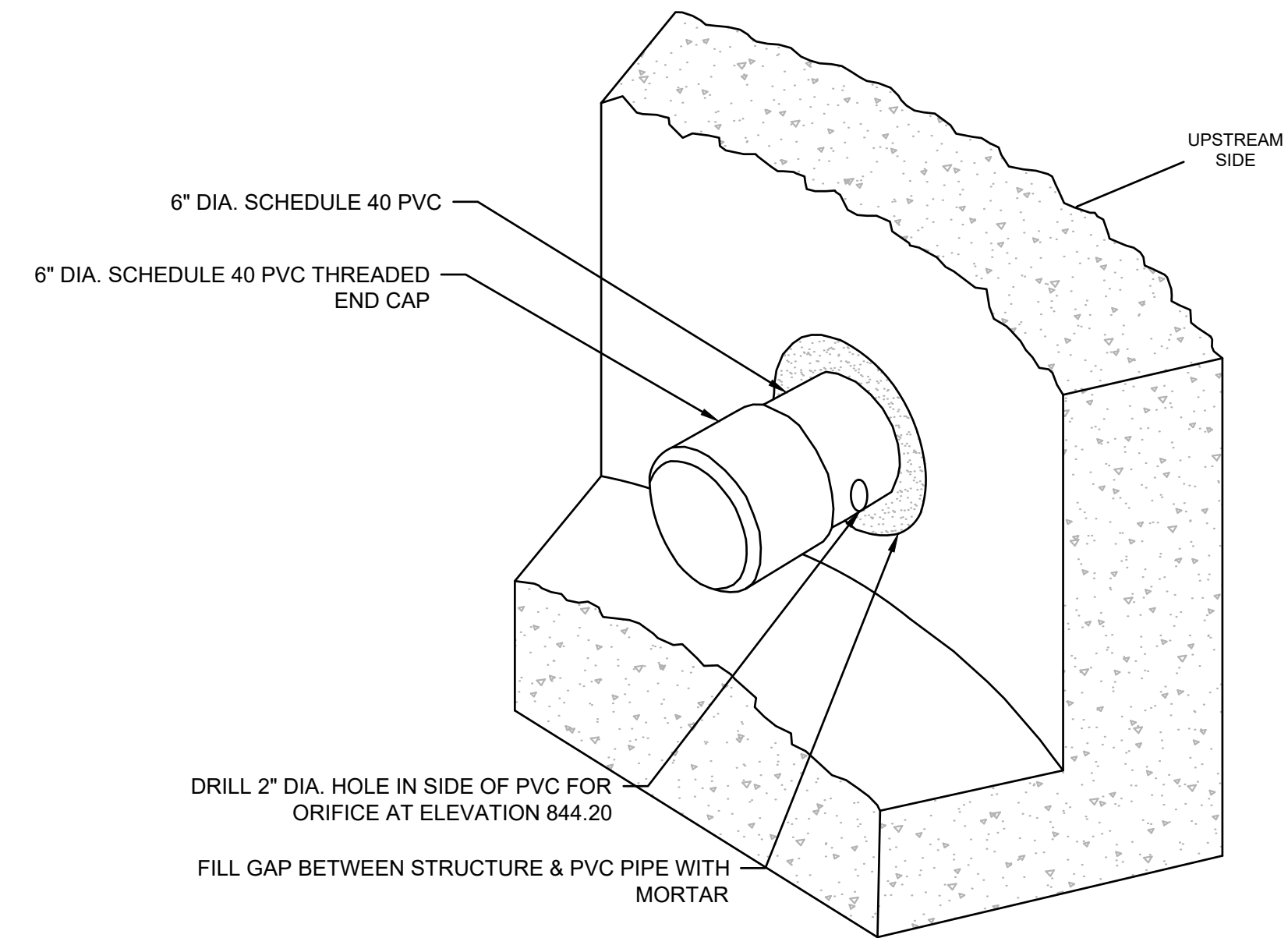


PLAN VIEW

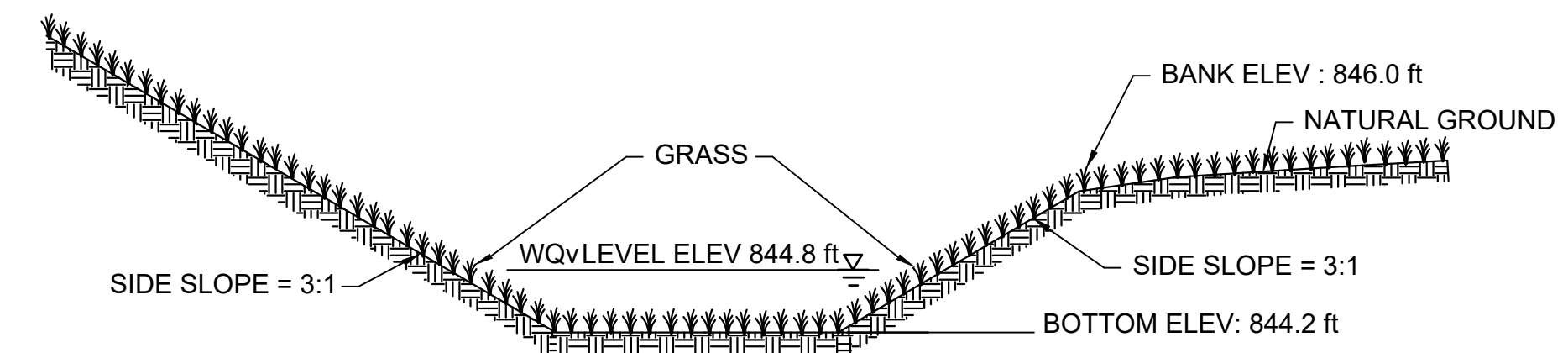


ISOMETRIC VIEW

○ OUTLET CONTROL STRUCTURE - J-7
SCALE: NTS



○ WATER QUALITY ORIFICE DETAIL
SCALE: NTS



○ POND J-1
SCALE: NTS

12/16/21

12/16/21

REVISION DATES

NO.	DATE	DESCRIPTION

SPECIAL CONSTRUCTION DETAIL
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.

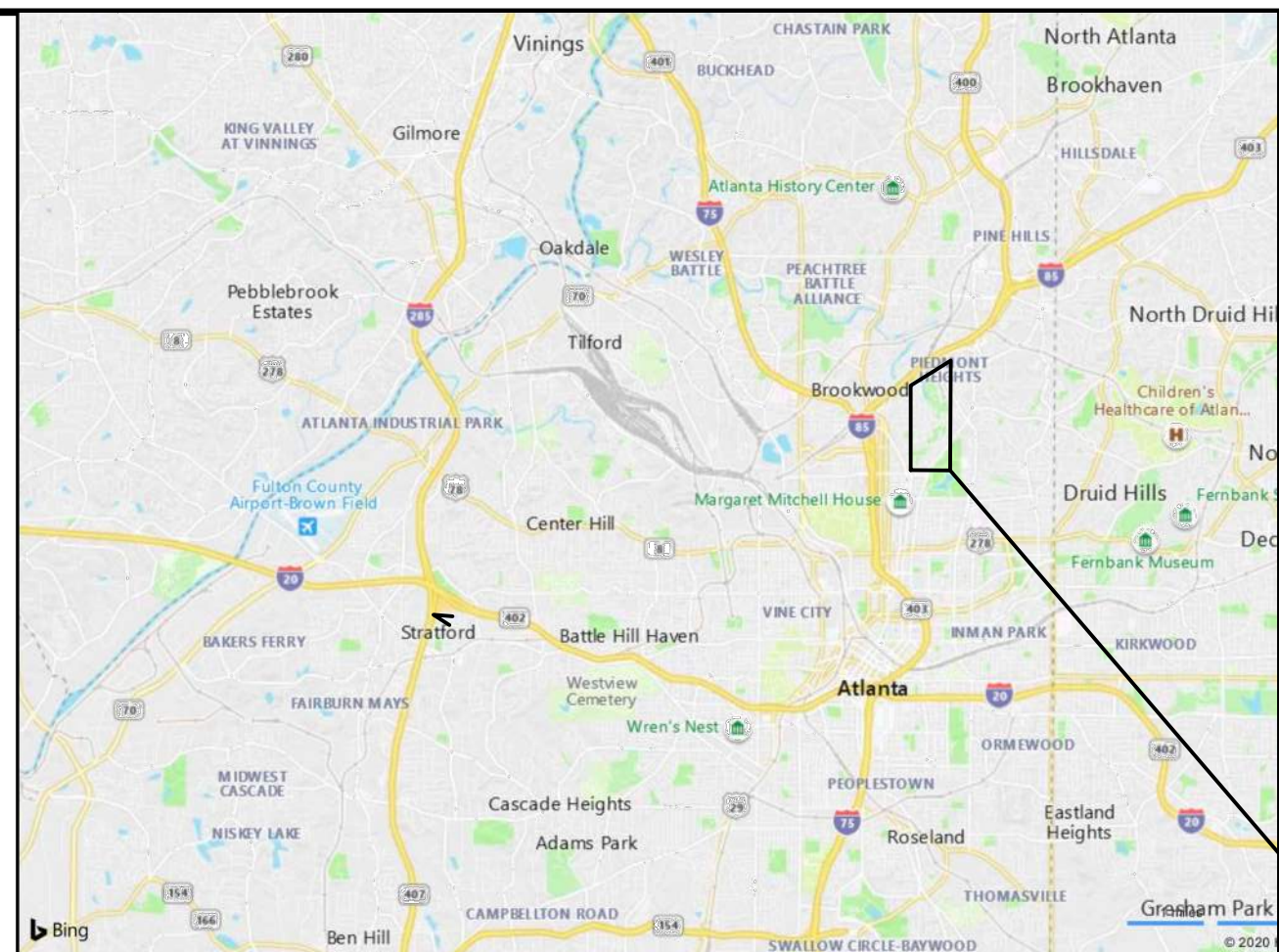
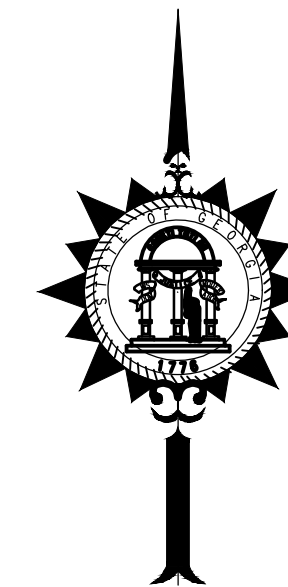
38-104

ATLANTA BELTLINE

PERMIT SUBMITTAL PLANS

NORTHEAST TRAIL

FULTON COUNTY



PROJECT LOCATION

⑨ LOCATION SKETCH

12/8/2021

FEDERAL ROUTE #N/A

STATE ROUTES #13, 403

P.I. NUMBER #N/A

LOCATION & DESIGN APPROVAL DATE:

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 5.
 FUNCTIONAL CLASS: MULTI-USE TRAIL
 PROJECT DESIGNATION: EXEMPT
 DESIGNED IN ENGLISH UNITS.

PRIMARY PERMITEE:
 ATLANTA BELTLINE INC.
 86 PRYOR STREET SE #300
 ATLANTA GEORGIA 30303
 (404)477-3003

24 HOUR CONTACT
KEVIN BURKE
(404)-477-3637

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

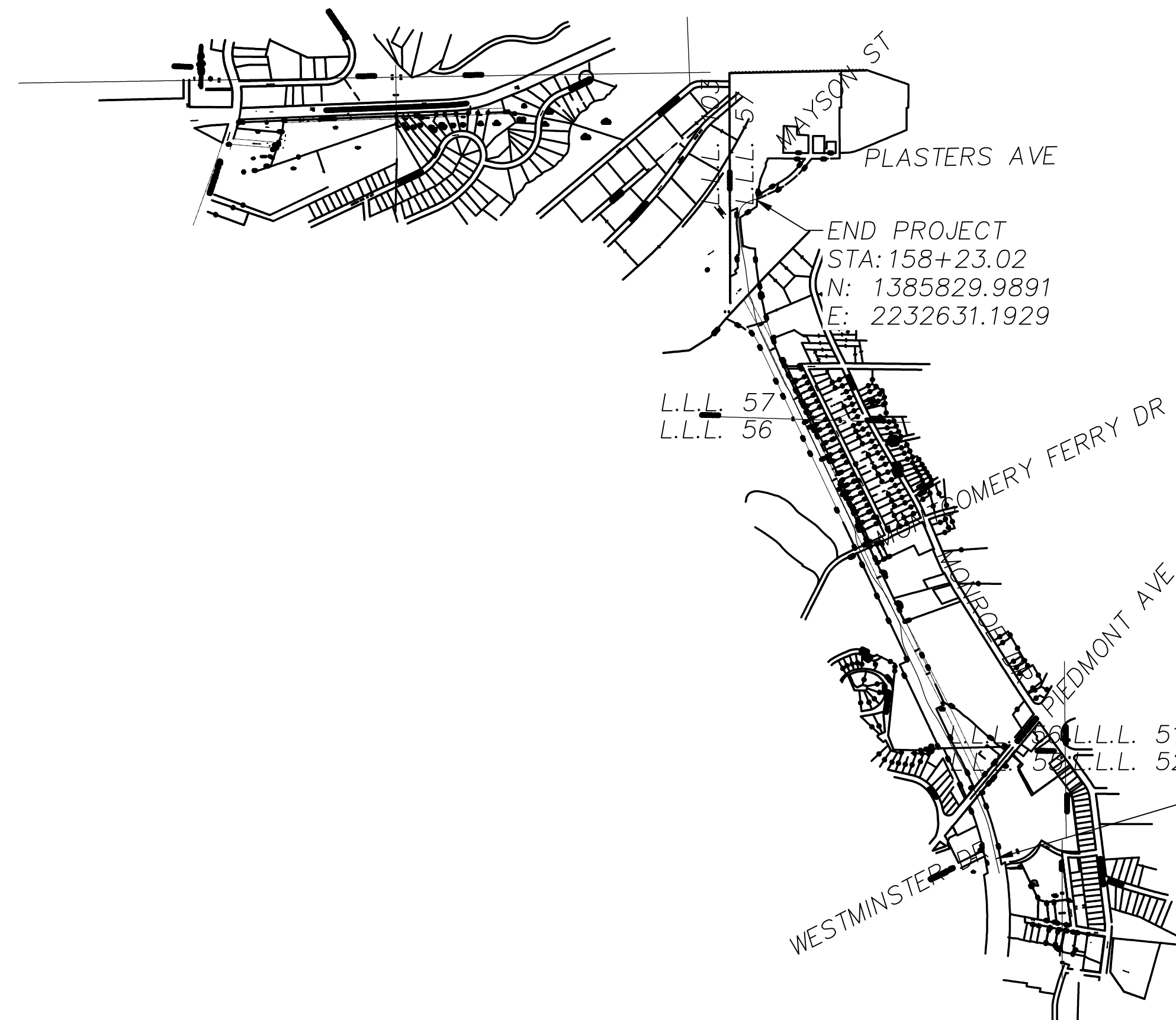
THIS PROJECT TO BE CONSTRUCTED AS PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2013 EDITION, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND AS MODIFIED BY CONTRACT DOCUMENTS.

THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH TITLE II PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT; THE DISTURBED AREA IS 4.54 ACRES. THE PROJECT INVOLVES INSTALLATION OF PAVEMENT, DRAINAGE STRUCTURES, SIDEWALKS, CURB RAMPS AND STRIPING CROSSWALKS.

THIS PROJECT CONTAINS POST CONSTRUCTION BMP'S.

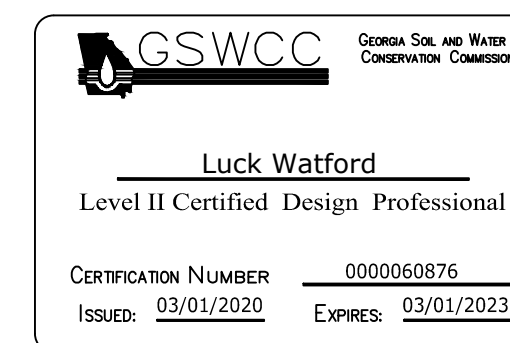
THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE CITY OF ATLANTA IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



ATLANTA BELTLINE NORTHEAST TRAIL



580 W Crossville Road
 Suite 101
 Roswell, GA 30075
 PHONE: (770) 569-7038
 WWW.R2TINC.COM



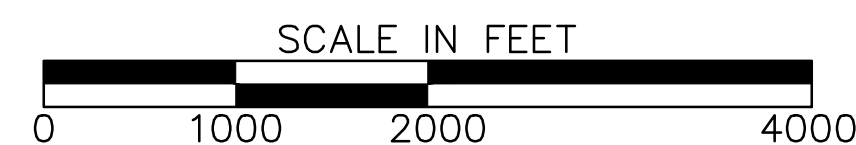
PREPARED BY: R2T, INC.

PLANS COMPLETED :	08/31/20
REVISIONS	
ABI COMMENTS	12/8/21

LENGTH OF PROJECT	FULTON CO COUNTY No. 121
	MILES
NET LENGTH OF TRAIL	1.142
NET LENGTH OF BRIDGES	0.056
NET LENGTH OF PROJECT	1.198
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.198



Engineering, Planning, and Environmental Consultants
 817 W. Peachtree Street, NW
 Atlanta, Georgia 30308



PROJECT NARRATIVE

DISTRICT: 14

LAND LOTS: 55, 56, 57, 103

CITY OF ATLANTA, GEORGIA

TOTAL AREA: 16.6± ACRES

5

DISTURBED AREA: 4.4± ACRES

NEW IMPERVIOUS AREA: 1.25± ACRES

PROJECT LAT/LONG: START: N33.793903 W84.370385 END: N33.810476 W84.375669

8

THE PURPOSE OF THIS PROJECT IS TO INSTALL THE ATLANTA BELTLINE TRAIL AND ASSOCIATED FEATURES IN THE PROJECT AREA. THE PROJECT INCLUDES THE INSTALLATION OF 6373 LF OF MULTIUSE URBAN TRAIL. THE PROJECT WILL DISTURB A TOTAL AREA OF APPROXIMATELY 4.4± ACRES. THE PROJECT AREA IS CURRENTLY ABANDON RAILROAD RIGHT-OF-WAY. THE PRE AND POST CONSTRUCTION RUN-OFF CURVE NUMBER IS APPROXIMATELY CN = 85.

45

THIS IS A LINEAR PROJECT, THE TOTAL DISTURBANCE AND SUBSEQUENT BMP PRACTICES ARE TO BE DONE IN SECTIONS. FINAL GRADE STABILIZATION IS TO OCCUR AS EACH SECTION OF TRAIL IS INSTALLED AND INSPECTED. THEREFORE THE EROSION CONTROL PLANS PRESENTED HERE ARE SHOWN IN TWO PHASE.

BEFORE EACH NEW SECTION OF TRAIL IS INSTALLED, SILT FENCE AND CONSTRUCTION ACCESS IS TO BE ESTABLISHED, SILT FENCE IS NOT TO BE REMOVED FROM THE CONSTRUCTION SITE UNTIL THE NOTICE OF TERMINATION FILED FOR THIS PROJECT.

10

THE ENTIRE PROJECT IS LOCATED WITHIN THE PEACHTREE CREEK DRAINAGE BASIN. CLEAR CREEK, IS THE RECEIVING WATER FOR THIS PROJECT. THE PROJECT SITE IS WITHIN THE 1 MILE IMPAIRED BUFFER OF SOUTH FORK PEACHTREE CREEK.

GENERAL NOTES

- 1) ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
2) DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR CONSENT OF THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE TO THE ENGINEER.
3) THE CONTRACTOR WARRANTS THAT HIS EMPLOYEES, AGENTS, AND SUBCONTRACTORS POSSESS THE EXPERIENCE, KNOWLEDGE AND CHARACTER NECESSARY TO QUALIFY THE INDIVIDUAL FOR THE PARTICULAR CONSTRUCTION TECHNIQUES THEY PERFORM IN CONNECTION WITH THE TASKS TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL INSURE THAT ALL CONSTRUCTION IS PERFORMED IN STRICT COMPLIANCE WITH ALL OSHA, STATE AND LOCAL HEALTH AND SAFETY CODES.
4) THE CONTRACTOR OR OTHER RESPONSIBLE PARTY IS TO TAKE IMMEDIATE ACTION UPON DISCOVERY OF DEFICIENCIES, WHETHER INCLUDED IN AN INSPECTION REPORT OR NOT. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND BETWEEN SURVEY DATA AND ACTUAL FIELD CONDITIONS.
5) CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION STARTS. EXISTING UTILITIES ARE SHOWN USING THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS EXPECTED TO COORDINATE ALL WORK WITH THE OWNER AND UTILITY COMPANIES TO MINIMIZE DISRUPTION AND DAMAGE TO THE PROPERTY.
6) CONSTRUCTION STAGING AREAS, SITE ACCESS AND LIMITS OF CONSTRUCTION SHALL BE COORDINATED WITH ANY SECONDARY OR TERTIARY PERMITTEES.

26

36

BEST MANAGEMENT PRACTICES

- 1) STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.
2) CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM.
3) DEVELOPMENT PLANS MUST CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
4) WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED.
5) DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
6) TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
7) PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.

- 8) TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED BY THE USE OF DEBRIS BASINS, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
9) ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS; ALL FILL SLOPES SHALL HAVE SILT FENCING AT THE TOE.
10) GRADING EQUIPMENT SHALL CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED IN ANY CASE THAT SUCH CROSSINGS SHALL BE KEPT TO A MINIMUM.
11) FILLS SHALL NOT ENCROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
12) PROVISIONS SHALL BE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS SPECIFIED IN THIS PERMIT.
13) OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR COMMON DEVELOPMENT.
14) VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL FOR THE PURPOSE OF PROVIDING A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATERS.)
15) DETENTION FACILITIES AND EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO START OF OTHER CONSTRUCTION AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE DEVICES SHALL BE MOVED AND ADJUSTED AS NEEDED TO KEEP A FUNCTIONING SYSTEM THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES INCLUDE (BUT ARE NOT LIMITED TO): CONSTRUCTION EXITS, SILT FENCE, STORM INLET/OUTLET PROTECTION, MULCH BERMS, AND TEMPORARY GRASSING.
16) NO WASTE MATERIALS INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
17) ALL PERMITTEES SHALL ENSURE AND DEMONSTRATE THAT THEIR PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL.
18) BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. (24)

CITY OF ATLANTA NOTES

- 1) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
2) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4) PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA EROSION CONTROL INSPECTOR. CALL (404) 546-1300 TO CONTACT THE INSPECTOR.
5) ANY DISTURBED AREA LEFT IDLE FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING; DISTURBED AREAS IDLE 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.
6) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY.
7) ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
8) SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (QUALIFIED PRODUCTS LIST #36) AND BE WIRE REINFORCED.
9) A HAUL ROUTE PERMIT IS REQUIRED WHEN MORE THAN 500 CUBIC YARDS OF HAULED VOLUME TO OR FROM THE SITE. PLANS MUST INCLUDE A STATEMENT INDICATING WHETHER OR NOT A HAUL ROUTE PERMIT IS REQUIRED.
10) PRIOR TO THE DEDICATION AND ACCEPTANCE OF SANITARY SEWER, STORM SEWER, OR STREET INFRASTRUCTURE TO THE CITY OF ATLANTA, "AS BUILT" DRAWINGS AND 3-YEAR MAINTENANCE BONDS ARE REQUIRED. THE STREET CONSTRUCTION SHALL DEMONSTRATE ADEQUATE COMPACTION WITH PROFESSIONAL TESTING AND REPORTS PREPARED BY A GEORGIA REGISTERED PROFESSIONAL CIVIL ENGINEER. THE SANITARY SEWER INSTALLATION SHALL INCLUDE AN INTERNAL TELEVISION INSPECTION, A SUCCESSFUL MANDREL PULL, AND A SUCCESSFUL LEAK-DOWN PRESSURE TEST.

3

24 HOUR CONTACT KEVIN BURKE (404)-477-3637

GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

2

GSWCC logo and certification details for Luck Watford, Level II Certified Design Professional, Certification Number 0000060876, Issued 03/01/2020, Expires 03/01/2023.

4

PRIMARY PERMITEE: ATLANTA BELTLINE INC. 100 PEACHTREE STREET, NW SUITE 2300 ATLANTA GEORGIA 30303 (404)477-3003 EMAIL ADDRESS: kburke@atlbeltline.org

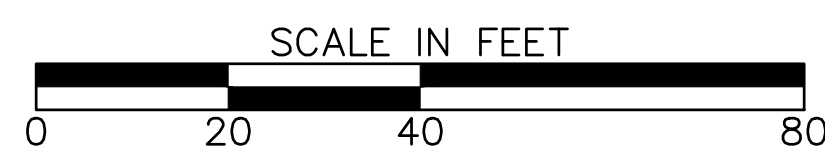
Table with 2 columns: EROSION LEGEND and symbols. Rows include ORANGE BARRIER FENCE, SILT FENCE - SENSITIVE, SILT FENCE - NONSENSITIVE, and PROPOSED SITE DEMOLITION.

Atlanta BeltLine logo and address: 100 PEACHTREE STREET, NW SUITE 2300 ATLANTA, GA 30303 TEL: (404) 477-3003 FAX: (404) 477-3606

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REVISION DATES table with columns for revision number, date, and description.

ESPC GENERAL NOTES ATLANTA BELTLINE NORTHEAST TRAIL

Table with columns: CHECKED, BACKCHECKED, CORRECTED, VERIFIED, DATE, and DRAWING No. (51-001).

- 11) PRIOR TO FINAL SIGNOFF, APPLICANT IS REQUIRED TO SUBMIT AN ELECTRONIC FORMAT (AS DETERMINED BY THE DEPARTMENT OF WATERSHED MANAGEMENT) AND A PAPER FORMAT OF THE ACTUAL "AS BUILT" PLANS FOR ANY STORMWATER MANAGEMENT FACILITIES OR PRACTICES AFTER FINAL CONSTRUCTION IS COMPLETED. THE PLAN MUST SHOW THE AS BUILT CONFIGURATION FOR ALL STORMWATER MANAGEMENT FACILITIES AND PRACTICES AND MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER.

EROSION CONTROL NOTES

- 1) UNLESS OTHERWISE INDICATED, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
2) THE DISTURBED AREA IS WITHIN THE 100 YEAR FLOOD HAZARD ZONE (REFERENCE FEMA FLOOD INSURANCE RATE MAP (FIRM) 13121C0242F, DATED SEPTEMBER 18, 2013 & 13121C0261G, DATED SEPTEMBER 18, 2013)
3) EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
4) EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY TO ENSURE PROPER FUNCTIONING. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
5) INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR100002.
6) WITHIN (7) SEVEN DAYS OF FINISHING INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. FAILURE OF OBTAINING THIS INSPECTION IS A DIRECT VIOLATION OF THE NPDES PERMIT.
7) WEEKLY EROSION AND CONTROL REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
8) DISTURBED AREA STABILIZATION SHALL BE ACHIEVED UTILIZING SEED MIX AND APPLICATION RATE AS DIRECTED BY OWNER.
9) SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 - SILT FENCE OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
10) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION IF DEEMED NECESSARY BY ON-SITE INSPECTOR.
11) THE CONSTRUCTION OF THE SITE WILL INITIATE WITH INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION.
12) PERMANENT VEGETATION AND STREAMBANK STABILIZATION SHALL WORK IN CONJUNCTION WITH THE STREAM BUFFERS TO PERMANENTLY STABILIZE THE CONSTRUCTION SITE AND LIMIT POLLUTANTS ENTERING ADJACENT STATE WATERS AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
13) ALL STRUCTURAL MEASURES MUST BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/3 THE STORAGE CAPACITY OF THE MEASURE. SEDIMENT CLEANED OUT SHOULD BE SPREAD IN UPLAND AREAS, MIXED WITH TOPSOIL, AND MULCHED OR SEEDED IMMEDIATELY. DO NOT SPOIL IN AREAS WHERE STRUCTURAL FILLS ARE REQUIRED (SUCH AS PAVEMENT, BUILDING FOOTPRINTS, ETC.)
14) FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
15) ANY IMPERVIOUS WATER RUNOFF FROM LOTS BY-PASSING WATER QUALITY POND MUST BE TREATED ON A LOT BY LOT BASIS.
16) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
17) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
18) WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
A) THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. FROM THE DRAINAGE AREAS SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
B) THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE INSPECTOR AND/OR THE PROFESSIONAL ENGINEER.
19) APPLICABLE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED.
20) USE OF ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EDP OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE FOUND AT WWW.GASWCC.GEORGIA.GOV.
21) USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION.

LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE

THE FOLLOWING SEQUENCES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, PRE-CONSTRUCTION CONFERENCE, ETC., DICTATES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE ENGINEER SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE SHALL BE RECORDED IN THE DAILY LOG.

36 CLEARING & GRUBBING PLAN (PHASE I)

- 1) OBTAIN AND POST COPY OF LAND DISTURBANCE PERMIT ON SITE.
2) PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING AT THE SITE.
3) SET UP A DAILY INSPECTION LOG FOR THE BMP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRAILER OR AT A NEARBY ACCESSIBLE LOCATION (SALES OFFICE, ETC.)
4) PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
5) PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.
6) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
7) TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.
8) WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE DESIGN PROFESSIONAL.
9) AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES.
10) THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR
11) MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN FOURTEEN (14) DAYS OF LAND DISTURBANCE.
12) CONSTRUCT ALL REMAINING STRUCTURAL BMP'S SHOWN ON ES&PC CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.

36 INTERMEDIATE GRADING AND TEMPORARY VEGETATIVE PLAN (PHASE II)

- 1) THE CONSTRUCTION EXIT, SILT FENCE, OUTLET PROTECTION, MULCHING, TEMPORARY GRASSING, AND PERMANENT GRASSING SHALL ALL BE MAINTAINED AND REPAIRED DURING THE GRADING PHASE OF CONSTRUCTION.
2) DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULE AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
3) STREAMBANK STABILIZATION SHALL BE INSTALLED PRIOR TO DISTURBANCE ON ANY STREAM BANK DURING CONSTRUCTION.
4) EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
5) TOPSOIL SHALL BE REMOVED TO SUITABLE SUBGRADE MATERIAL. TOPSOIL MAY BE UTILIZED TO CONSTRUCT BERMS AS REQUIRED.
6) STOCK PILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
7) EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS.
8) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9) ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
10) THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION.

OTHER PROJECTS.

- 11) ALL GRADED SLOPES 3:1 OR GREATER MUST BE HYDRO SEEDED AND COVERED WITH GDOT APPROVED WHEAT OR WOOD FIBER MATTING.
12) ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
13) MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN FOURTEEN (14) DAYS OF LAND DISTURBANCE.
14) EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED AFTER EACH RAIN EVENT.
15) CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR PROPER SITE DRAINAGE AND CONVEYANCE TO THE PROPER BEST MANAGEMENT PRACTICES SHOWN ON THE SITE PLAN.
16) STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.
17) THE CONTRACTOR SHALL MAINTAIN ANY SEDIMENT PONDS UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

FINAL GRADING AND PERMANENT VEGETATIVE PLAN (PHASE III)

- 1) SMOOTH GRADES AND PERMANENTLY VEGETATE DISTURBED AREAS AT COMPLETION OF CONSTRUCTION.
2) THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREAS WITHIN (14) FOURTEEN DAYS AFTER FINAL GRADE IS REACHED.
3) INSTALLATION OF WATER QUALITY DEVICES SHALL BE CONCURRENT WITH FINAL STABILIZATION AND/OR PRIOR TO MAINTENANCE/PERFORMANCE BOND EXPIRATION.
4) PERIMETER SILT FENCING TO REMAIN THROUGHOUT CONSTRUCTION.
5) AS SOON AS PRACTICALLY POSSIBLE, PERMANENT LANDSCAPING SHALL BE INSTALLED ALONG ALL STREETS AND THROUGHOUT THE SITE.
6) WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE CONTRACTOR IS TO REMOVE THE SEDIMENT BASINS AND STABILIZE THE DISTURBED AREAS.
7) THE CONSTRUCTION EXIT CAN BE REMOVED ONCE FINAL PAVING AND FINAL VEGETATION IS ESTABLISHED.
8) THE STREAMBANK PROTECTION WILL REMAIN AS PERMANENT STRUCTURES.
9) UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON THE PLANS.

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS WHICH ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OPERATOR OR ANY AGENT OF A REGULATORY BODY.

NO WASTE MATERIALS INCLUDING BUILDING MATERIALS SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

28 STORMWATER DISCHARGES

POTENTIAL SOURCES OF STORMWATER POLLUTION EXPECTED TO BE PRESENT ON THE SITE INCLUDE: SEDIMENT, OIL, LUBRICANTS, PAINTS, SOLVENTS, CONCRETE, FERTILIZER AND HERBICIDES. POLLUTANTS SHALL BE MINIMIZED IN THE STORMWATER DISCHARGES BY MAINTAINING GOOD HOUSE KEEPING AND UTILIZING PROPER CARE, HANDLING OF, AND/OR DISPOSAL OF CONSTRUCTION MATERIALS, SOLVENTS, PETROLEUM PRODUCTS AND CONSTRUCTION WASTE.

24 HOUR CONTACT KEVIN BURKE (404)-477-3637

GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)



Table with 2 columns: Erosion Legend and symbols. Rows include Orange Barrier Fence, Silty Fence - Sensitive, Silty Fence - Nonsensitive, and Proposed Site Demolition.

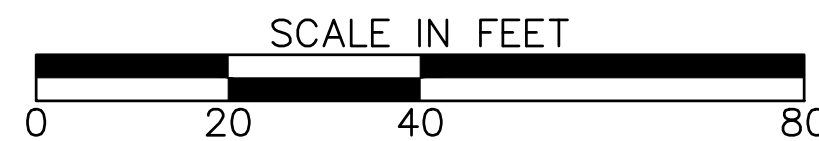


Table with 3 columns: Revision Dates and a grid for tracking revisions.

Table with 4 columns: Checked, Backchecked, Corrected, Verified and Date, and a field for Drawing No. (51-002).

ESPC GENERAL NOTES ATLANTA BELTLINE NORTHEAST TRAIL

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS.

POLLUTION PREVENTION MEASURES

ALL POLLUTION FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BMP'S.

POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: PETROLEUM, FERTILIZER, PAINT, CONCRETE, DETERGENTS, TAR, CLEANING SOLVENTS, AND OTHER HAZARDOUS MATERIALS.

HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL PLAN AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ES&PC PLAN AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS.

NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

GOOD HOUSEKEEPING PRACTICES

- 1) AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT TO DO THE JOB.
2) ALL MATERIALS ONSITE WILL BE STORED IN THEIR APPROPRIATE CONTAINER AND, IF POSSIBLE, UNDER ONE ROOF ON ENCLOSURE.
3) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINER WITH ORIGINAL MANUFACTURER'S LABEL.
4) SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5) WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

25) PETROLEUM STORAGE, SPILLS AND LEAKS

1) THESE PLANS EXPRESSLY DELEGATE THE RESPONSIBILITY OF PROPER ONSITE HAZARDOUS MATERIAL MANAGEMENT TO THE CONTRACTOR. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE AN ACTION PLAN AND KEEP THE NECESSARY MATERIALS ON SITE FOR THE CAPTURE, CLEAN UP, AND DISPOSAL OF ANY PETROLEUM PRODUCT OR OTHER HAZARDOUS MATERIAL, LEAKS OR SPILLS ASSOCIATED WITH THE SERVICING, REFUELING OR OPERATION OF ANY EQUIPMENT UTILIZED AT THE SITE. A COPY OF THE ACTION PLAN SHALL BE KEPT ONSITE. ALL PERSONNEL OPERATING OR SERVICING THE EQUIPMENT SHALL BE FAMILIAR WITH THE ACTION PLAN. THE CONTRACTOR SHALL NOT PARK, REFUEL OR MAINTAIN EQUIPMENT WITHIN DESIGNATED WATERWAYS.

30) INSPECTION

1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

2) MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NONWORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

26) STORM WATER SAMPLING

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-8-92-001".

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE APPLICABLE VALUE SELECTED FROM APPENDIX B IN PERMIT NO. GAR100002.

THE NTU LIMIT IS BASED UPON THE DISTURBED ACREAGE OF THE PROJECT SITE AND THE SURFACE WATER DRAINAGE AREA DRAINING TO THE RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- 1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- 2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- 3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- 4) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- 5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV. E.

33) SAMPLE POINTS

FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2). OF THIS PERMIT, PRIMARY PERMITTEE'S ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

- E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- G) PERMITTEE'S DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.
- H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.0 .3. OR 111.0.4., WHICHEVER IS APPLICABLE.
- I) A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART 11.8.1.I.
- J) WHEN THE PERMITTEE HAS ELECTED TO SAMPLE OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B APPLICABLE TO THE CONSTRUCTION SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA AND WHETHER THE RECEIVING WATER(S) SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6 AT WWW.GAEPD.ORG.

SAMPLING FREQUENCY 31)

- 1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- 3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
 - A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
 - B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
 - C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
 - D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
 - E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

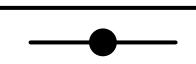
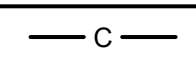
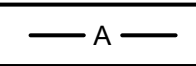

2)



Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

24 HOUR CONTACT
KEVIN BURKE
(404)-477-3637

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	



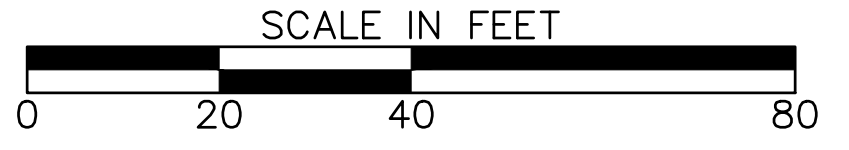
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606



KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



RIVER TO TAP
580 W Crossville Road
Suite 101
Roswell, GA 30075
PHONE: (770) 569-7038
WWW.R2TINC.COM



REVISION DATES		

ESPC GENERAL NOTES
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No. 51-003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SEDIMENT STORAGE

THIS SITE HAS A TOTAL DRAINAGE AREA OF 16.90 ACRES. THE FOLLOWING TABLE SUMMARIZES THE REQUIRED AND AVAILABLE SEDIMENT BASIN ON THIS PROJECT. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE STORAGE VOLUMES FOR THE BMPS SPECIFIED IN THIS TABLE.

Table with columns: Network, Total Drainage Area (acres), Sediment Storage Volume Required (CY), Total Storage Volume Provided (CY), SILT FENCE (Length, Storage), Sediment Basin (Volume, Count, Storage), Inlet Sediment Trap (Count, Storage). Includes a sub-table for Sediment Basin details.

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NON-STORM WATER DISCHARGE
IT IS NOT ANTICIPATED THAT ANY NON-STORM WATER DISCHARGES WILL BE MADE TO ANY OFF-SITE WATERS. IF IT IS DETERMINED THAT NON-STORM WATER DISCHARGES WILL BE MADE, INCLUDING DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING INLINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUND WATER, FOUNDATION OR FOOTING DRAWINGS WHERE FLOWS ARE TO BE CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS, THIS SECTION WILL BE AMENDED WITH THE DETAILS OF THE DRAINAGE.

SITE VISIT CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.
BUFFERS DETERMINED BY KHA
GASWCC LEVEL II DESIGN PROFESSIONAL DATE CERTIFICATION #

ES&PC CERTIFICATION STATEMENT
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001, GAR 100002 AND GAR 100003.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION
DATE OF INSPECTION
I certify the site was in compliance with the ES&PC Plan on the date of inspection.
GASWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #
Inspection included the following discrepancies from the ES&PC Plan
These deficiencies must be addressed immediately and a re-inspection scheduled. Work shall not proceed on the site until design Professional Certification is obtained.

NOTES:
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
NO WASTE MATERIALS INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. A REVISION TO THE EROSION CONTROL PLAN IS REQUIRED WHEREVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT WILL HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING POLLUTANT DISCHARGE.
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION IN ACCORDANCE WITH PART IV.A.5 PAGE 26 OF THE PERMIT.

ES&PC CERTIFICATION STATEMENT
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.
Luck Watford 11/09/2021 0000029504
GASWCC LEVEL II DESIGN PROFESSIONAL DATE CERTIFICATION #

PERMIT NO. GAR100002 CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.
NAME (OWNER) DATE

GSWCC
Luck Watford
Level II Certified Design Professional
CERTIFICATION NUMBER 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

24 HOUR CONTACT
KEVIN BURKE
(404)-477-3637

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

Project Name: Atlanta Beltline Northeast Address:
City/County: FULTON Date on Plans: 12/08/2021
Name & email of person filling out checklist: LUCK.WATFORD, LUCK.WATFORD@R2TINC.COM

Table with columns: Plan Page #, Included Y/N, and checklist items 1-26. Items include erosion control measures, sedimentation, and pollution control requirements.

Table with columns: Item ID, Status (Y/N), and Description of checklist items 27-52. Items include cover for building materials, sediment storage, and best management practices.

EROSION LEGEND
ORANGE BARRIER FENCE
SILT FENCE - SENSITIVE
SILT FENCE - NONSENSITIVE
PROPOSED SITE DEMOLITION

Atlanta BeltLine logo and contact information for Kimley-Horn and Associates, Inc.

R2T logo and contact information for R2T Inc.



REVISION DATES table with columns for Date and Description.

ESPC GENERAL NOTES
ATLANTA BELTLINE NORTHEAST TRAIL
CHECKED: DATE
BACKCHECKED: DATE
CORRECTED: DATE
VERIFIED: DATE
DRAWING No. 51-004
Effective January 1, 2021

REPORTING

1) THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2) ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A) THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

B) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

C) THE DATE(S) ANALYSES WERE PERFORMED;

D) THE TIME(S) ANALYSES WERE INITIATED;

E) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

F) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

G) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;

H) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND

I) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

ACTIVITIES WITHIN A BUFFER

1) EXCEPT AS PROVIDED IN PART IV.(III). IN THE GAR100002 PERMIT, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, OR WHERE BULKHEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:

A) PUBLIC DRINKING WATER SYSTEM RESERVOIRS,

B) FENCES,

C) STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER

D) STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:

a) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,

b) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

c) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT,

E) STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT:

a) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 200 LINEAR FEET,

b) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER,

c) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND

d) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;

F) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT:

a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 1 00 SQUARE FEET PER STRUCTURE,

b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE,

c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND

G) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:

a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE,

b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE,

c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT.

E) STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT:

a) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 200 LINEAR FEET,

b) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER,

c) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND

d) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION; AND

F) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE RIGHT-OF-WAY UNDERTAKEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROAD AND TOLLWAY AUTHORITY OR UNDERTAKEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT:

a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE,

b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE,

c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT; AND

G) RIGHT-OF-WAY POSTS, GUY-WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERTAKEN BY ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:

a) THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE,

b) THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1,000 SQUARE FEET PER STRUCTURE,

c) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

d) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT.

15) 2) NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:

A) PUBLIC DRINKING WATER SYSTEM RESERVOIRS,

B) FENCES,

C) STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER

D) STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY UTILITY UNDER THE REGULATORY JURISDICTION OF THE FEDERAL ENERGY REGULATORY COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18-1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:

a) THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,

b) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND

c) THE ENTITY IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT,

16) 3) EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I). AND (II)., NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.

22) **IMPAIRED STREAM SEGMENT**

ANY PERMITTEE WHO INTENDS TO OBTAIN COVERAGE UNDER THE GAR1000002 PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S), AS SHOWN ON GEORGIA'S MOST CURRENT "305(B)/303(D) LIST DOCUMENTS (FINAL)" AT THE TIME OF NOI SUBMITTAL, MUST SATISFY THE REQUIREMENTS OF PART III.C. OF THIS PERMIT IF THE IMPAIRED STREAM SEGMENT HAS BEEN LISTED FOR CRITERIA VIOLATED, "BIO F" (IMPAIRED FISH COMMUNITY) AND/OR "BIO M" (IMPAIRED MACROINVERTEBRATE COMMUNITY), WITHIN CATEGORY 4A, 4B OR 5, AND THE POTENTIAL CAUSE IS EITHER "NP" (NONPOINT SOURCE) OR "UR" (URBAN RUNOFF). THOSE DISCHARGES THAT ARE LOCATED WITHIN ONE (1) LINEAR MILE OF AN IMPAIRED STREAM SEGMENT, BUT ARE NOT LOCATED WITHIN THE WATERSHED OF ANY PORTION OF THAT STREAM SEGMENT, ARE EXCLUDED FROM THIS REQUIREMENT. GEORGIA'S 305(B)/303(D) LIST DOCUMENTS (FINAL)" CAN BE VIEWED ON THE EPD WEBSITE.

IN ORDER TO ENSURE THAT THE PERMITTEE'S DISCHARGE(S) DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE WATER QUALITY STANDARDS, THE PLAN MUST INCLUDE FOUR (4) OF THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) FOR THOSE AREAS OF THE SITE

WHICH DISCHARGE INTO OR WITHIN ONE (1) LINEAR MILE UPSTREAM AND WITHIN THE SAME WATERSHED AS THE IMPAIRED STREAM SEGMENT:

d) A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A PUBLIC ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE AVAILABLE ON THE PROVIDED WEBSITE UNTIL A NOT HAS BEEN SUBMITTED.

h) REDUCE THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY STATE-MANDATED BUFFER AREAS FROM SUCH CALCULATIONS). ALL CALCULATIONS MUST BE INCLUDED ON THE PLAN.

i) LIMIT THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME TO NO GREATER THAN 25 ACRES OR 50% OF THE TOTAL PLANNED SITE, WHICHEVER IS LESS. ALL CALCULATIONS MUST BE INCLUDED ON THE PLAN.

m) USE APPROPRIATE EROSION CONTROL SLOPE STABILIZATION INSTEAD OF CONCRETE IN ALL CONSTRUCTION STORM WATER DITCHES AND STORM DRAINAGES DESIGNED FOR A 25 YEAR, 24 HOUR RAINFALL EVENT.

NOTE: BEST MANAGEMENT PRACTICES DICTATED TO SATISFY THE REQUIREMENTS OF IMPAIRED STREAM SEGMENTS ARE MORE STRINGENT THAN THE GENERAL REQUIREMENTS OF THE GAR100002 PERMIT, AND SHALL BE ADHERED TO IN CASE OF DUPLICATE COVERAGE.

32)

RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

1) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

2) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;

3) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.S. OF THIS PERMIT;

4) A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

5) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;

6) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

7) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2).OF THIS PERMIT.

CERTIFICATION STATEMENTS

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDING FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

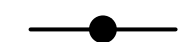
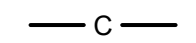


GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

GSWCC Green Seal, an International Certification

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

24 HOUR CONTACT
KEVIN BURKE
(404)-477-3637


EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	



ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

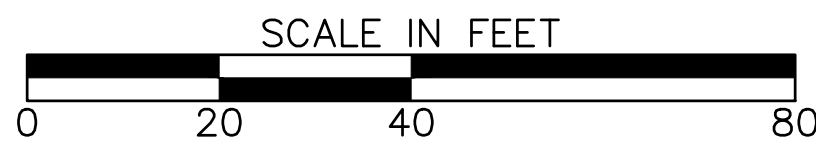


KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700



R2T
RIVER TO TAP

580 W Crossville Road
Suite 101
Roswell, GA 30075
PHONE: (770) 569-7038
WWW.R2TINC.COM



REVISION DATES	

CHECKED:	DATE:	DRAWING No. 51-005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

ESPC GENERAL NOTES
ATLANTA BELTLINE NORTHEAST TRAIL

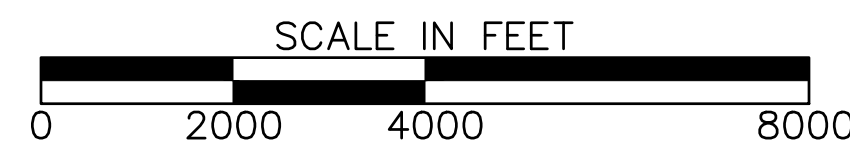
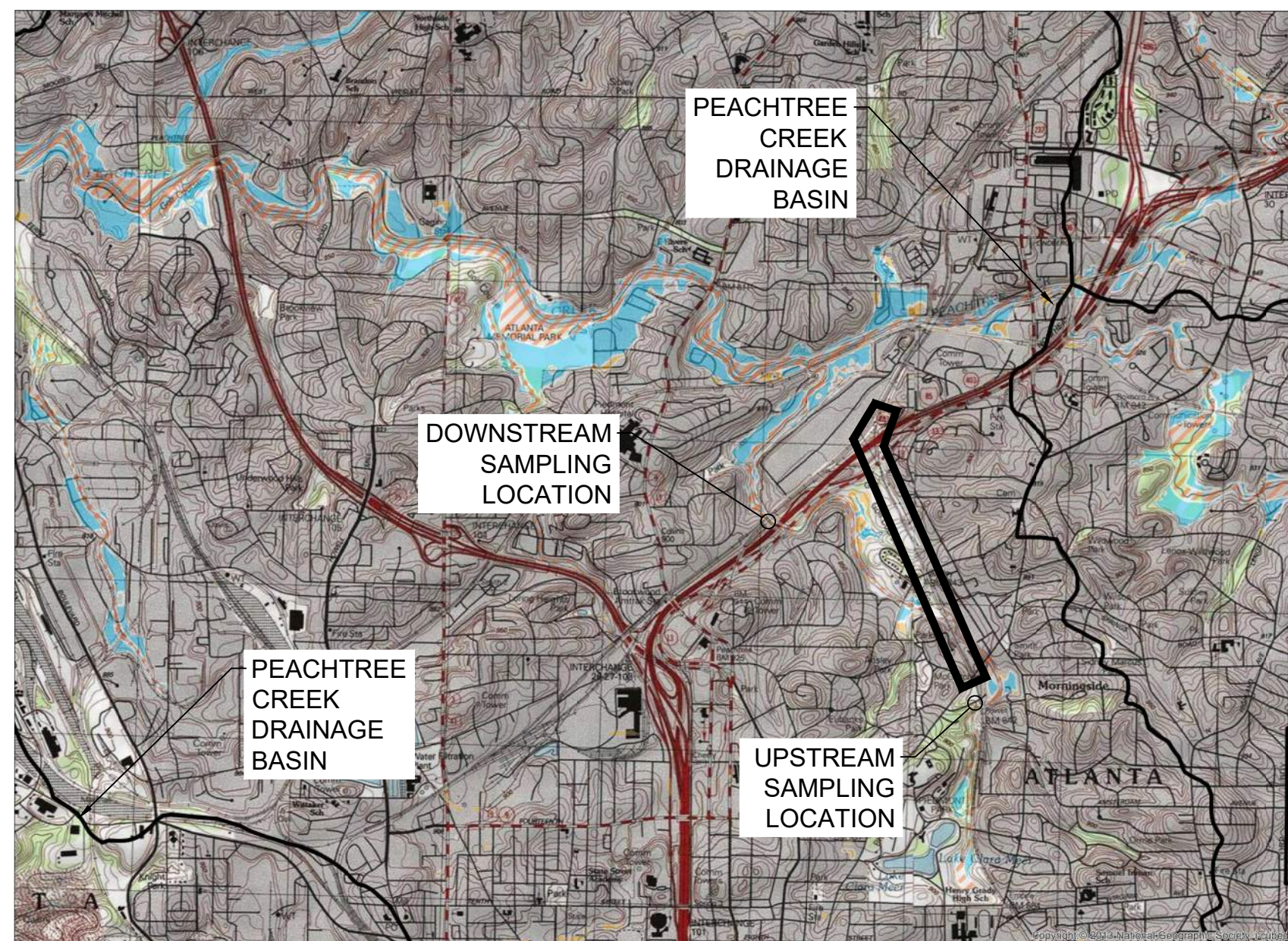
GSWCC CHECKLIST ITEM # (CHECKLIST ON FOLLOWING SHEET)

24 HOUR CONTACT KEVIN BURKE (404)-477-3637

GSWCC logo and Luck Watford, Level II Certified Design Professional, certification details.

SOILS LEGEND table with categories: Ud (Udorthents, 0-10% slopes), Ub (Urban land), ReD (Rion Sandy Loam, 10-15% slopes).

35 43 44



ANTICIPATED BEGINNING OF CONSTRUCTION: FEB. 2022 ANTICIPATED END OF INITIAL CONSTRUCTION: FEB 2028

29

SCHEDULE OF MAJOR ACTIVITIES table with columns for weeks after beginning construction (Q1-Q6) and rows for various construction tasks.

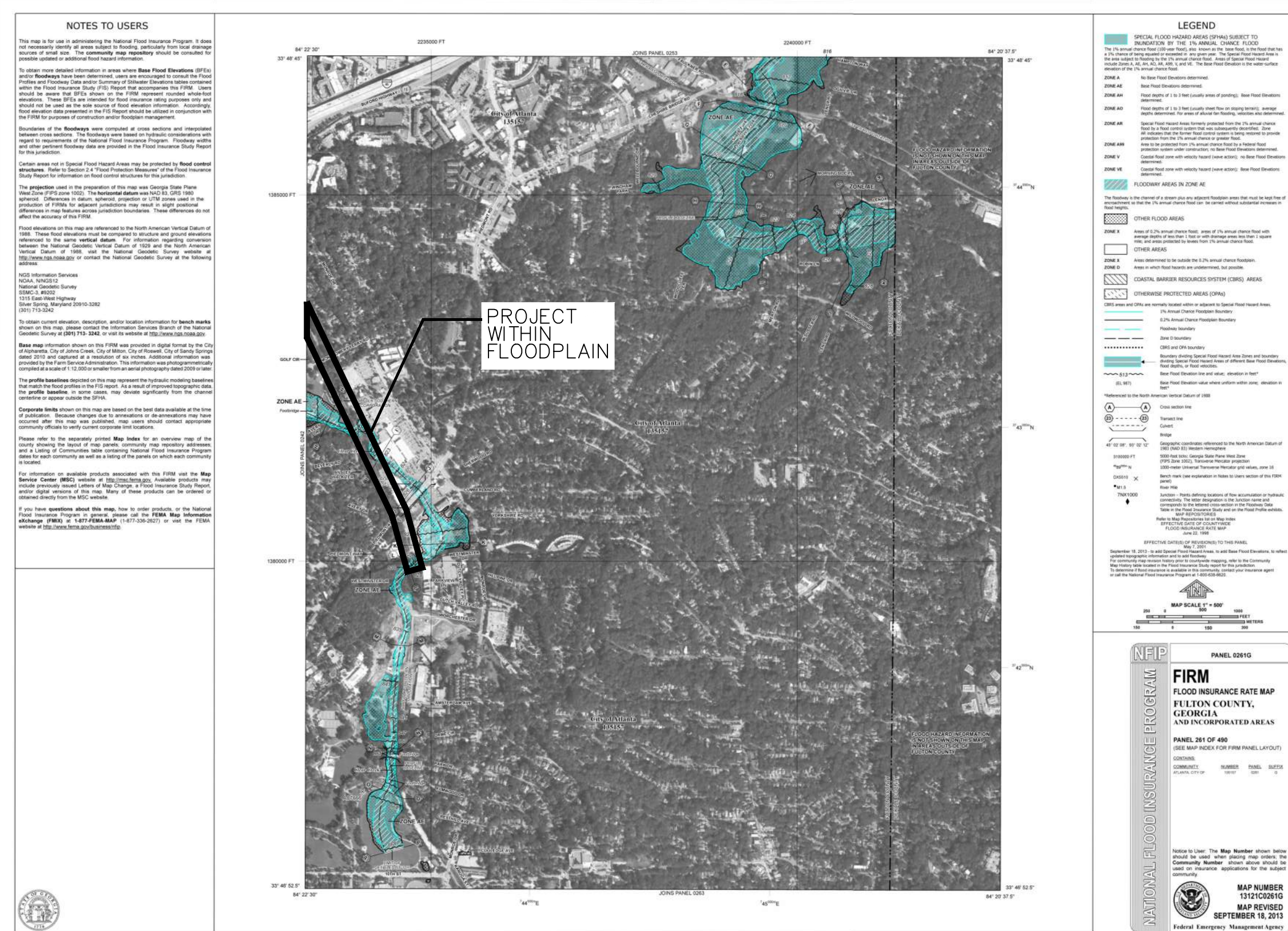
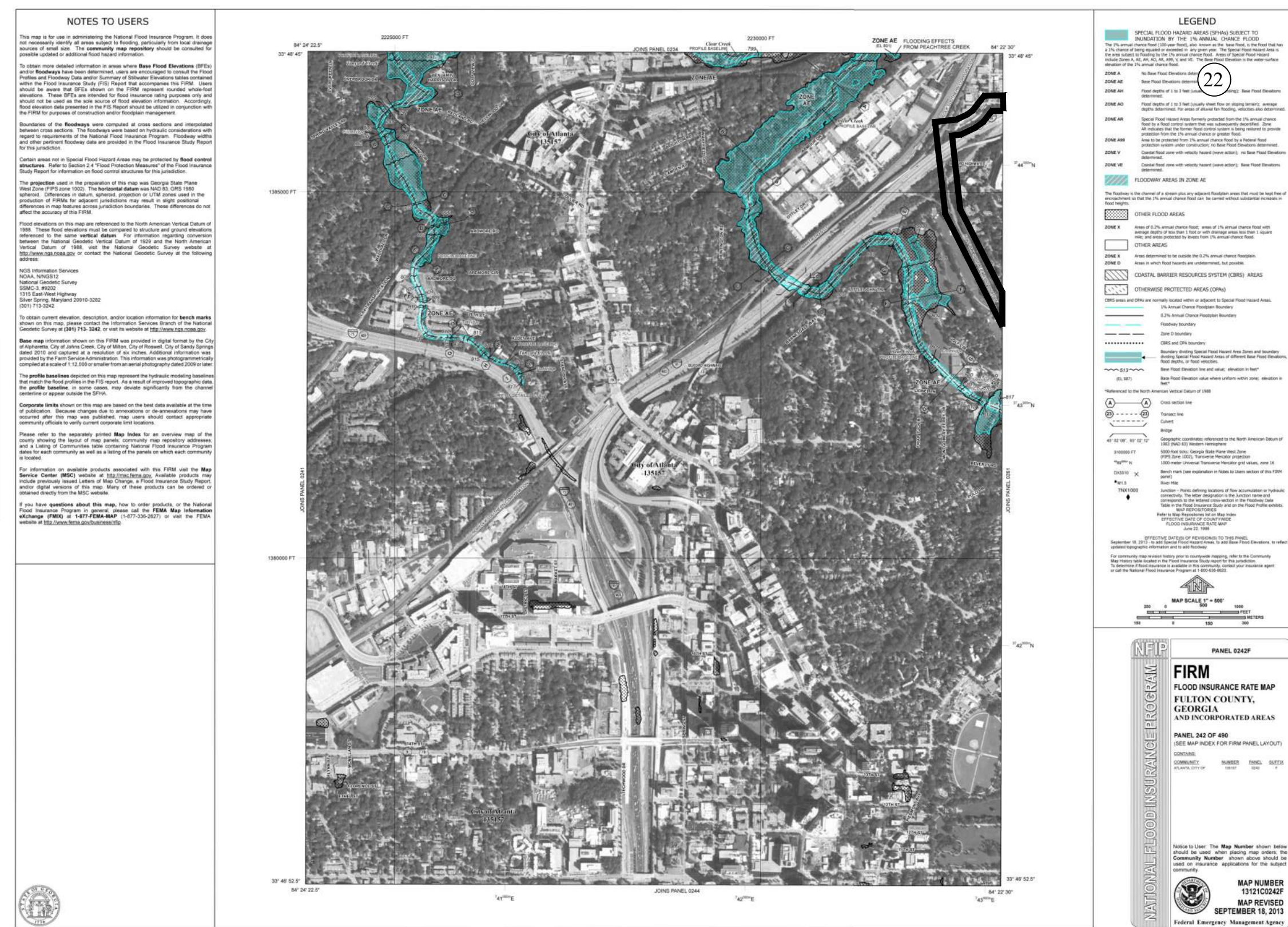
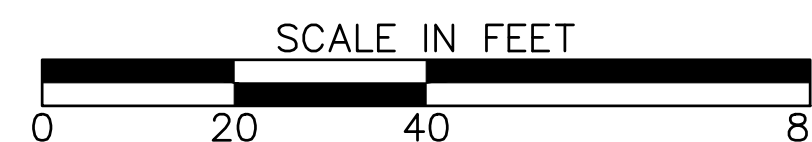
*SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY. MAINTAIN BMP'S THROUGHOUT LAND DISTURBING ACTIVITIES.

EROSION LEGEND table with symbols for Orange Barrier Fence, Silty Fence (Sensitive/Non-sensitive), and Proposed Site Demolition.

Atlanta BeltLine logo and address: 100 Peachtree Street, NW Suite 2300, Atlanta, GA 30303.

Kimley-Horn logo and address: The Biltmore, Suite 601, 817 West Peachtree Street, NW Atlanta, Georgia 30308.

R2T logo and address: 580 W Crossville Road, Suite 101, Roswell, GA 30075.



APPENDIX 1 THE ES&P PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPs FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

- List of 20 Best Management Practices (BMPs) for stormwater management, including buffer requirements, sediment basins, erosion control, and soil stabilization.

REVISION DATES

ESPC GENERAL NOTES ATLANTA BELTLINE NORTHEAST TRAIL, including drawing number 51-006 and revision tracking table.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
		ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN 	
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL 	
		POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 1 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0001	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Toc	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	POLYACRYLAMIDE
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

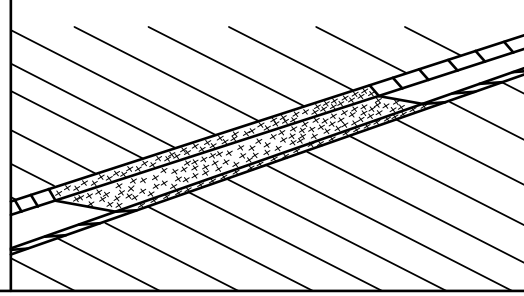
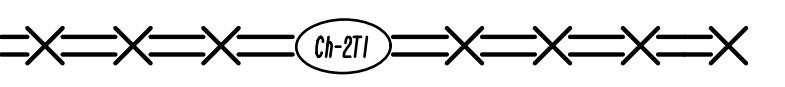
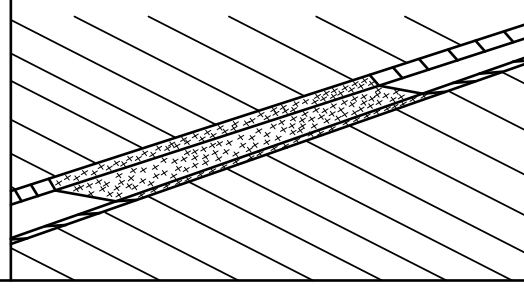
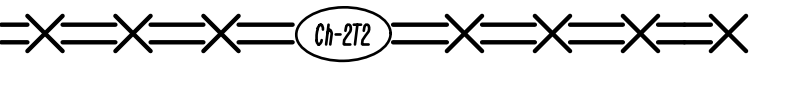
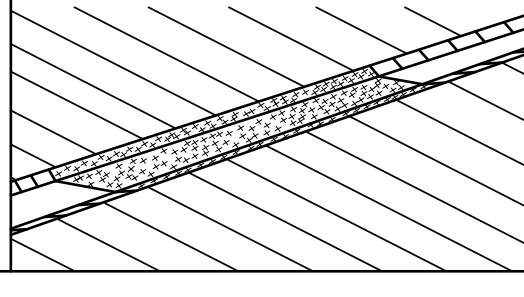
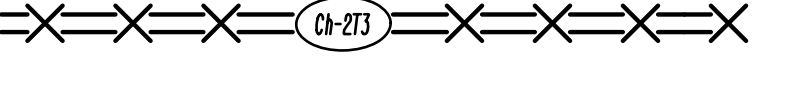
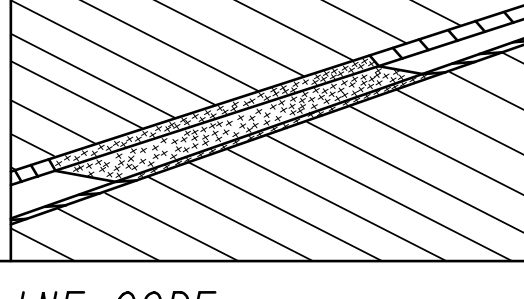
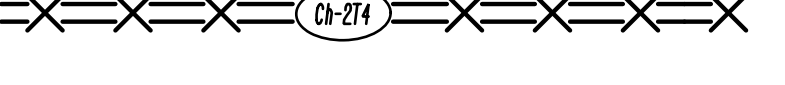
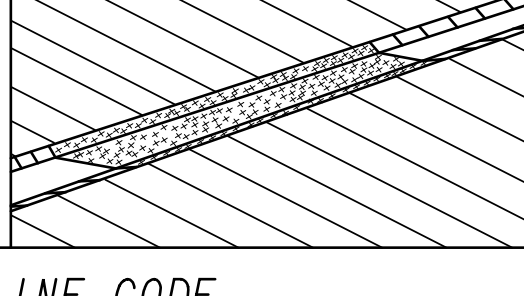
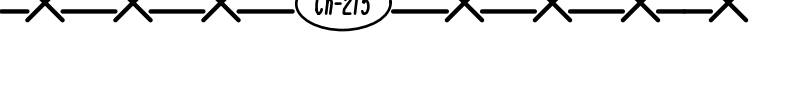
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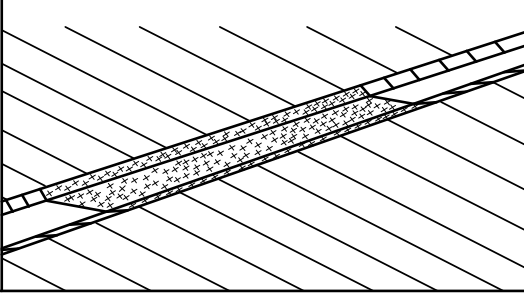
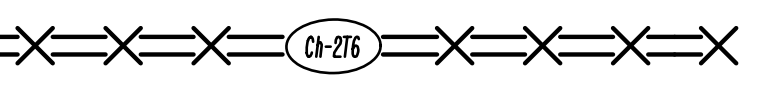
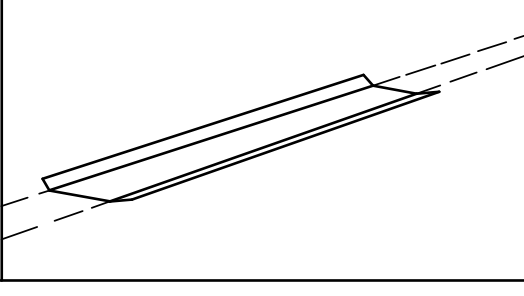
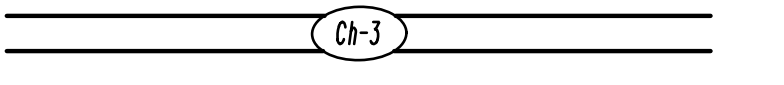
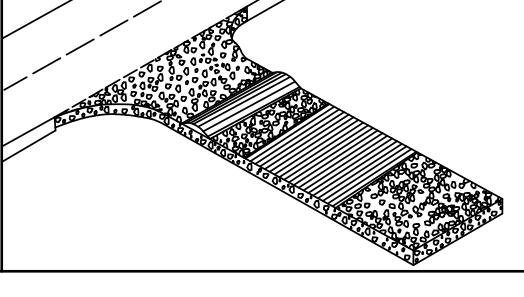
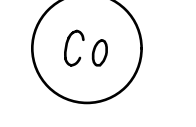
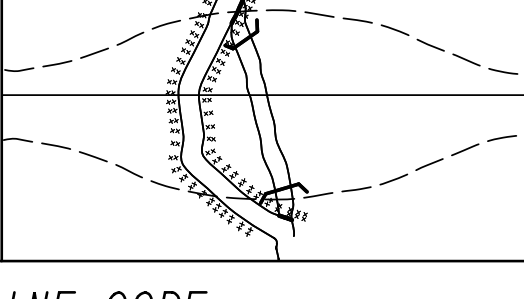
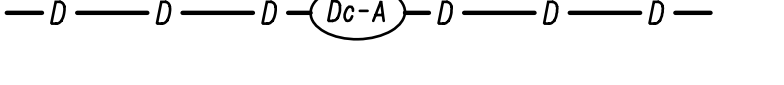
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11/28/2018	

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED: D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-271	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-272	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-273	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-274	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-275	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-276	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

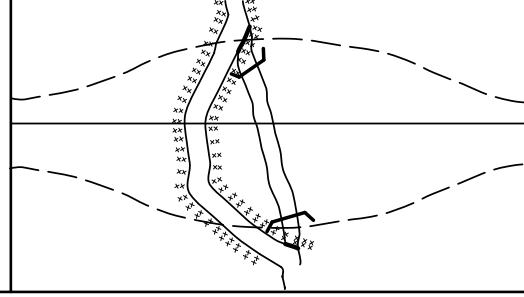
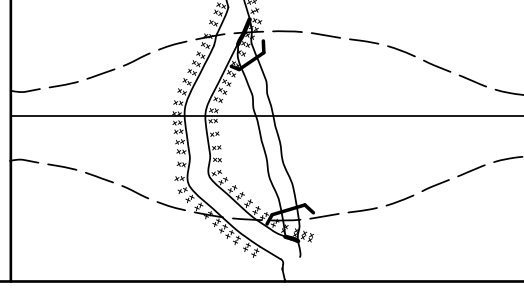
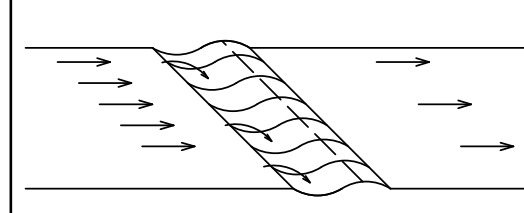
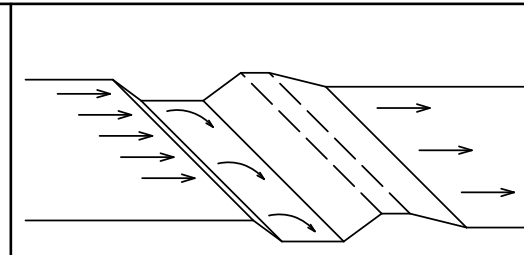
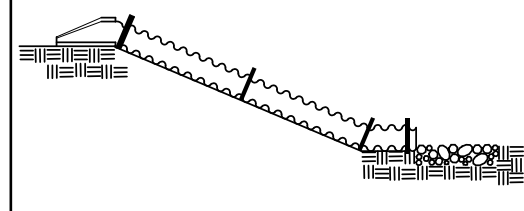
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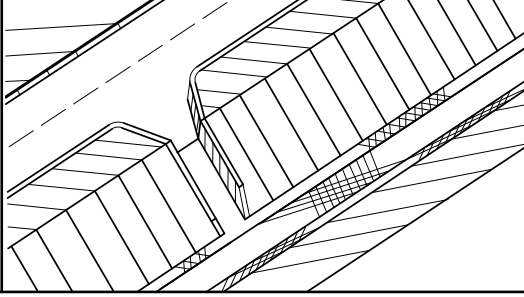
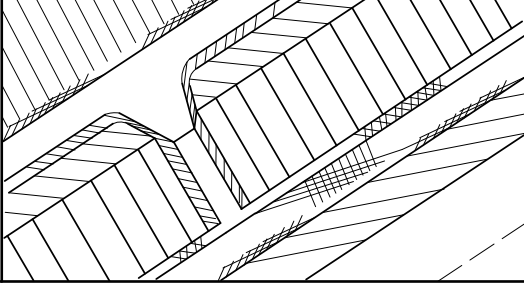
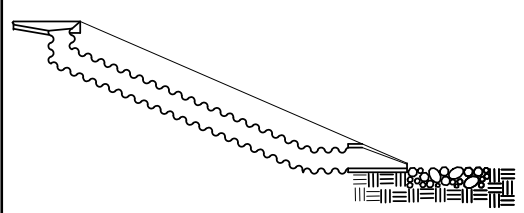
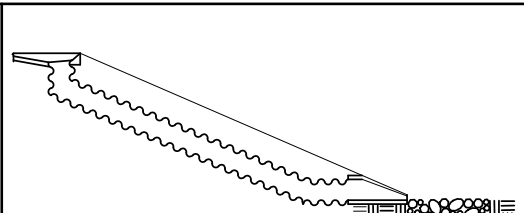
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 3 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0003	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.
	LINE CODE		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.
	LINE CODE		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS *Dn1* OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP.
	LINE CODE		RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	LINE CODE		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		

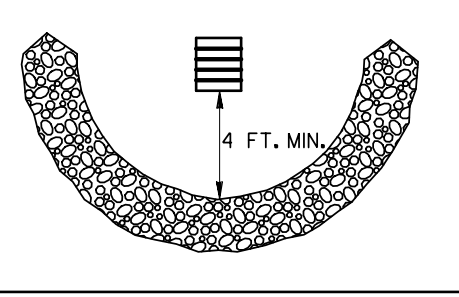

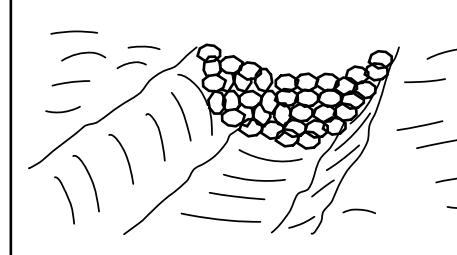
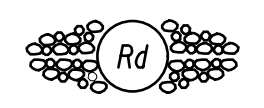
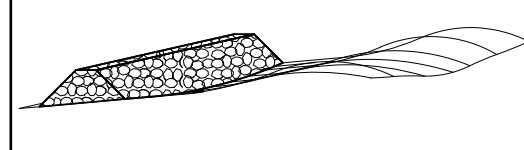
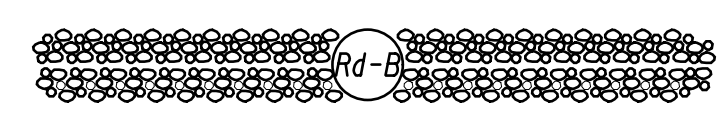
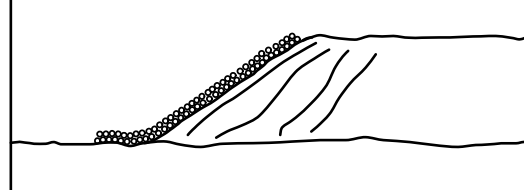
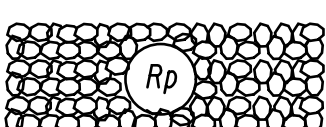
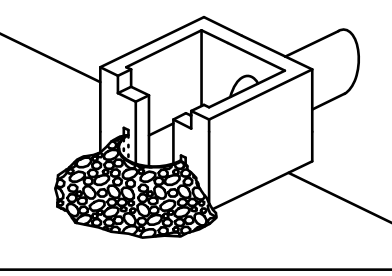
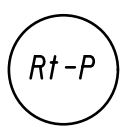
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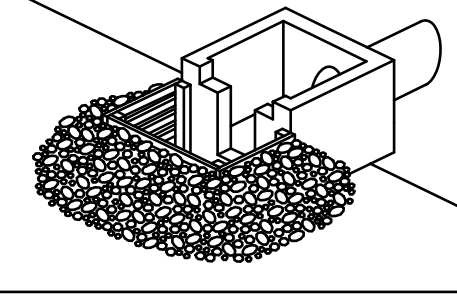
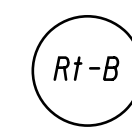
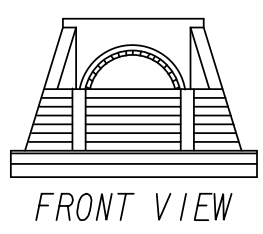

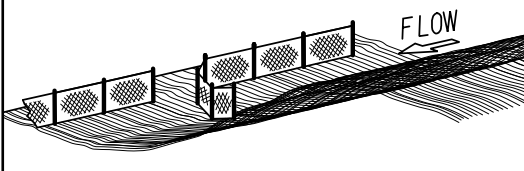

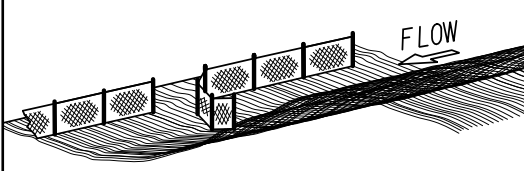

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 4 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0004	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGeways WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.
	SYMBOL 		ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Rt-Sg2	SYMBOL 		
Rt-Sg3			
Sd1-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE 		
Sd1-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE 		

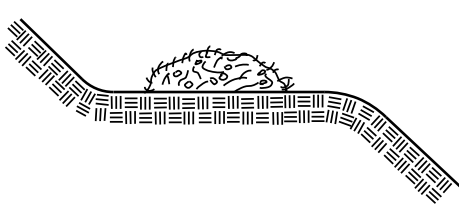
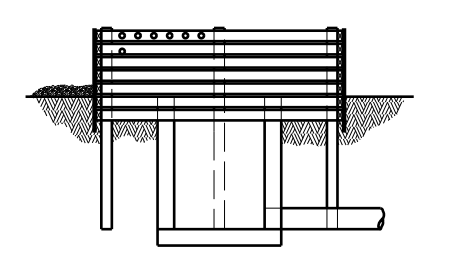
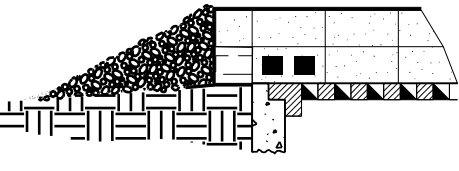
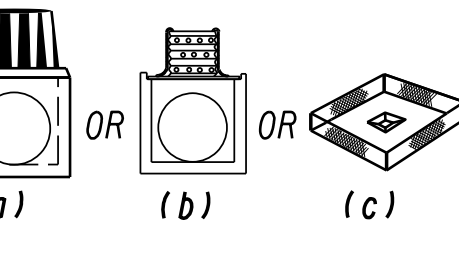
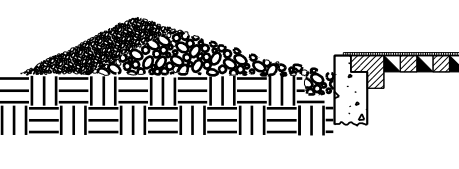
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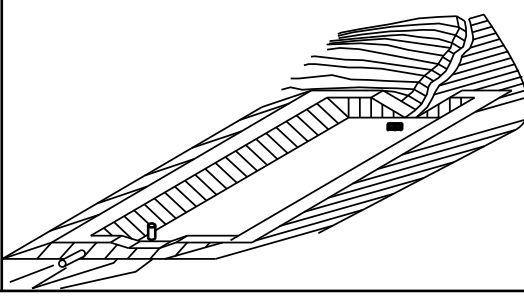
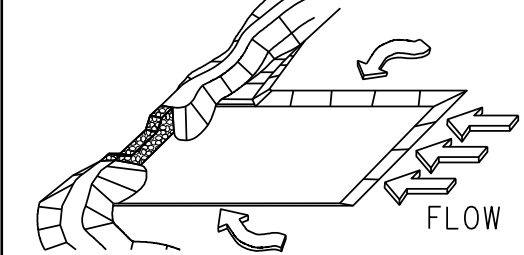
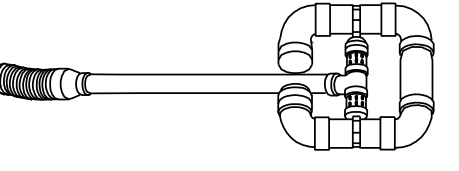
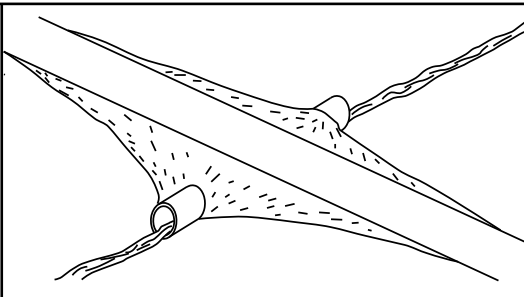
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 5 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0005	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * Sd1-BB * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd3		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd4-C		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL Sk		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL Sr		

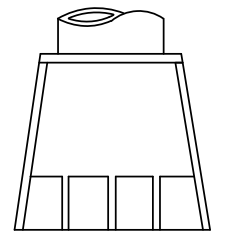

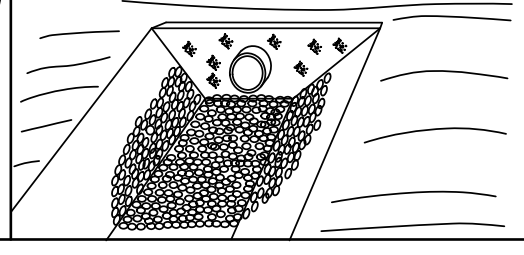
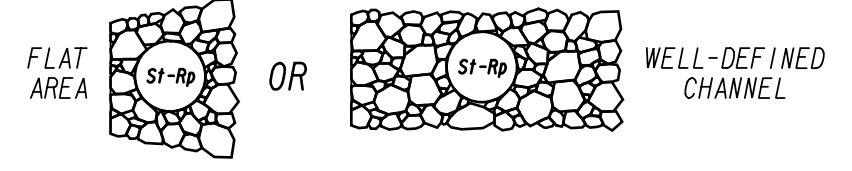
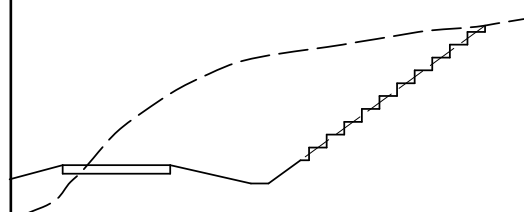
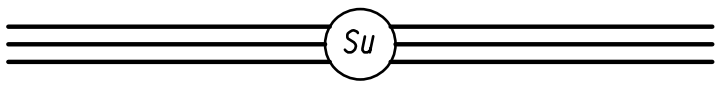
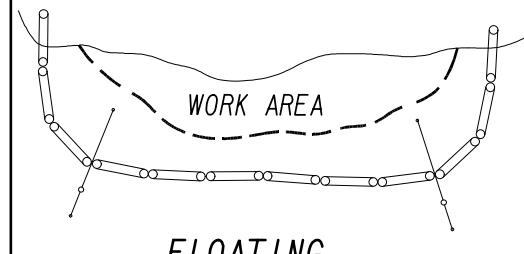

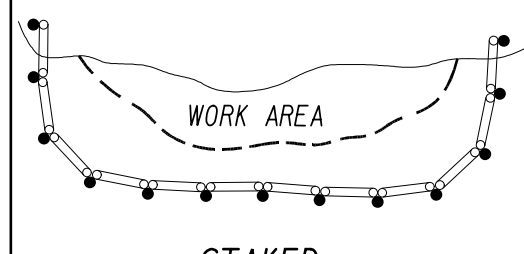

NOTE:

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NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET SHEET 6 OF 7	
11/28/2018			
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0006	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL 		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 \leq 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 \leq 0.7 FEET.
	PATTERN 		REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE 		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE 		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

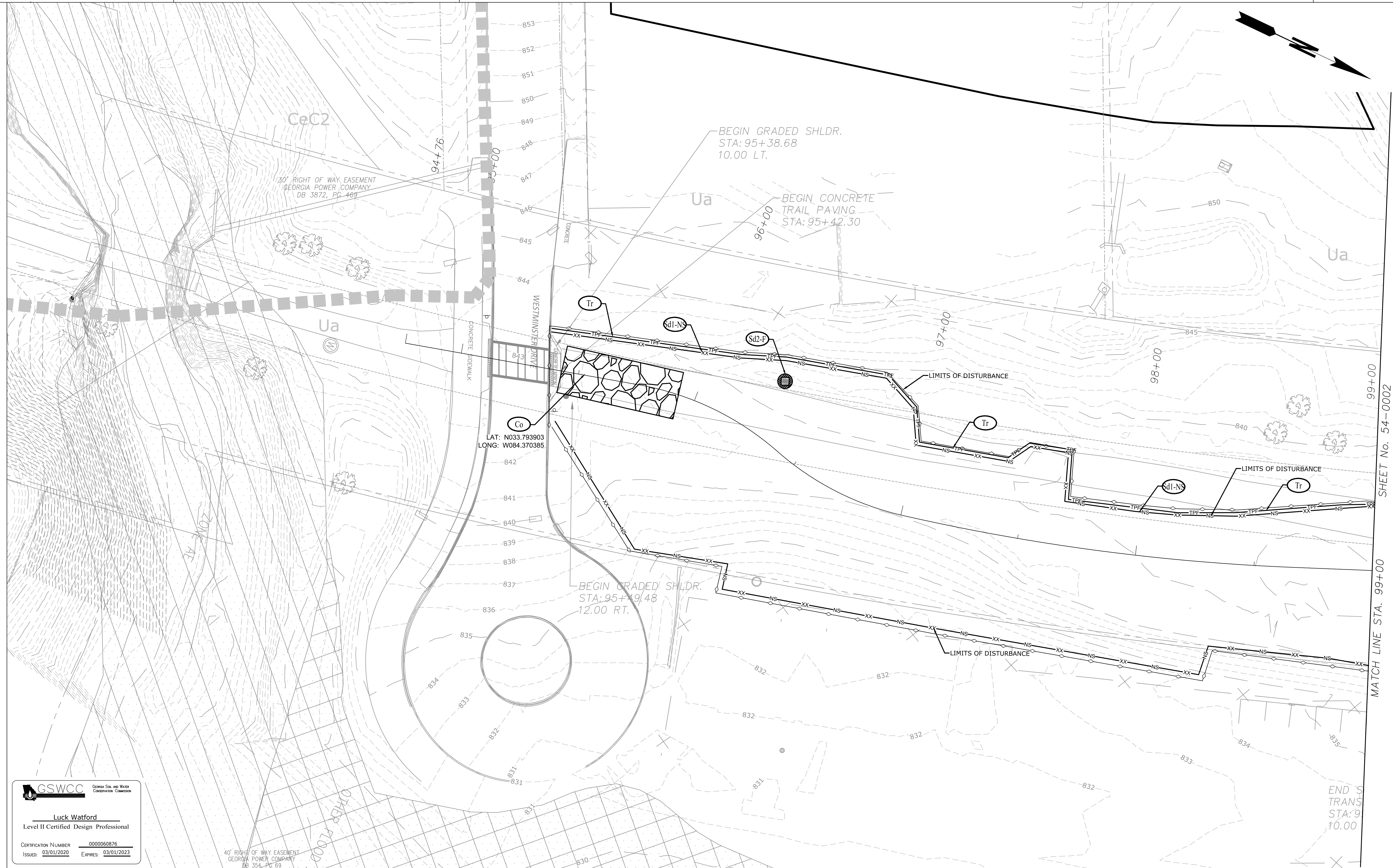
NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 7 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0007	



SHEET No. 54-0002
MATCH LINE STA. 99+00

END S
TRANS
STA: 9
10.00

GSWCC Georgia Soil and Water Conservation Commission

Luck Watford
Level II Certified Design Professional

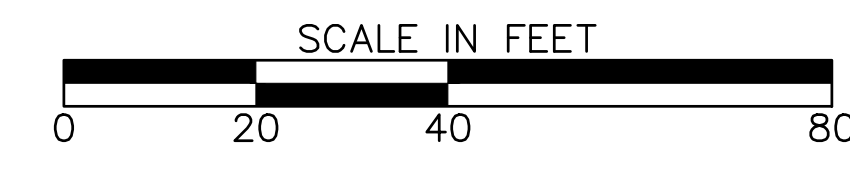
CERTIFICATION NUMBER 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE, SUITE 601
817 WEST PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
TEL: (404) 419-8700

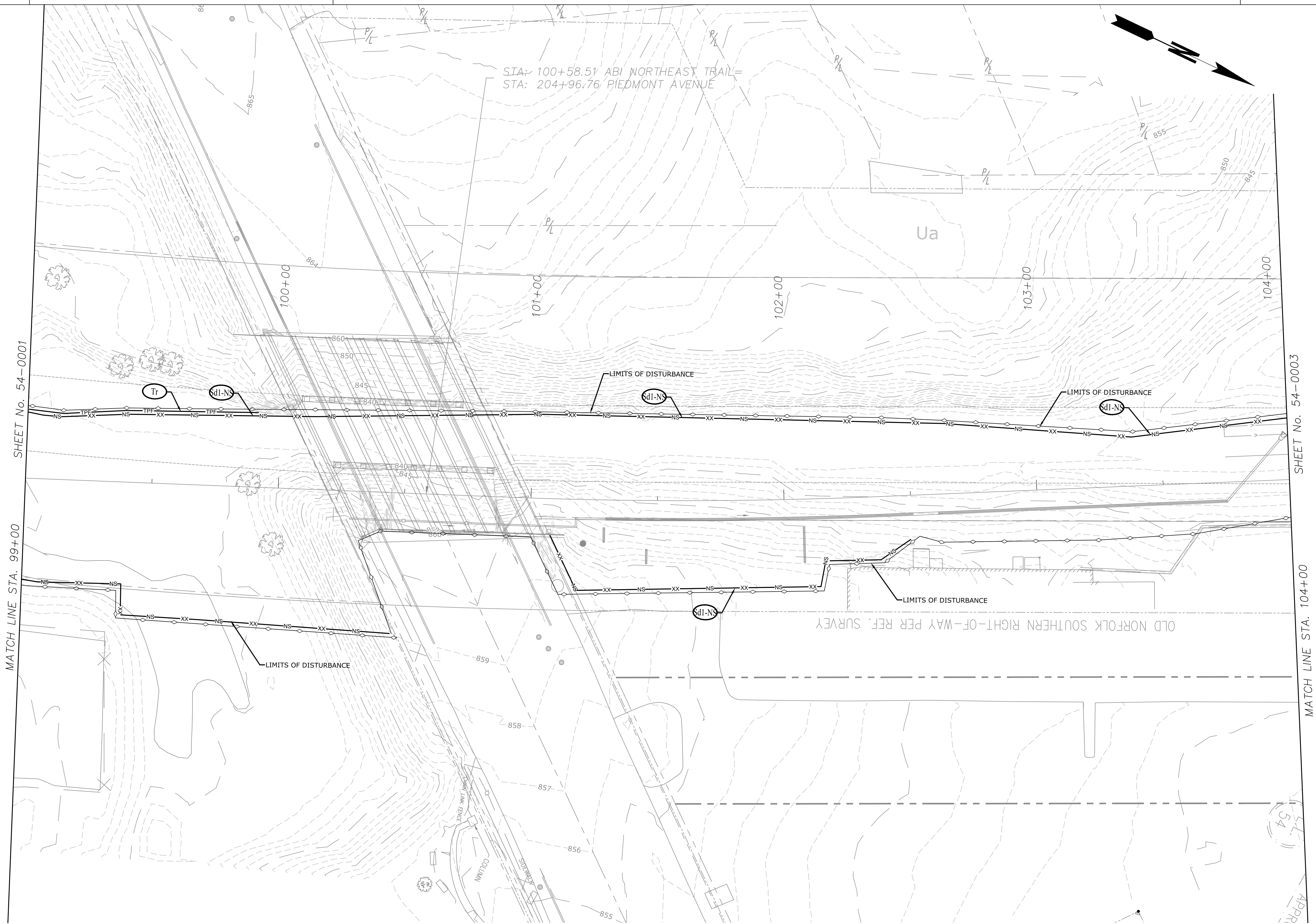
R2T
RIVER TO TAP
580 W Crossville Road
Suite 101
Roswell, GA 30075
PHONE: (770) 569-7038
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0001

SHEET No. 54-0003

MATCH LINE STA. 99+00

MATCH LINE STA. 104+00

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CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

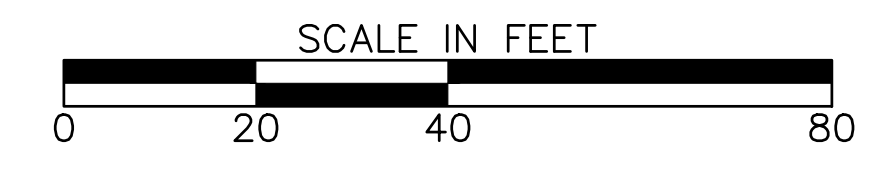
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
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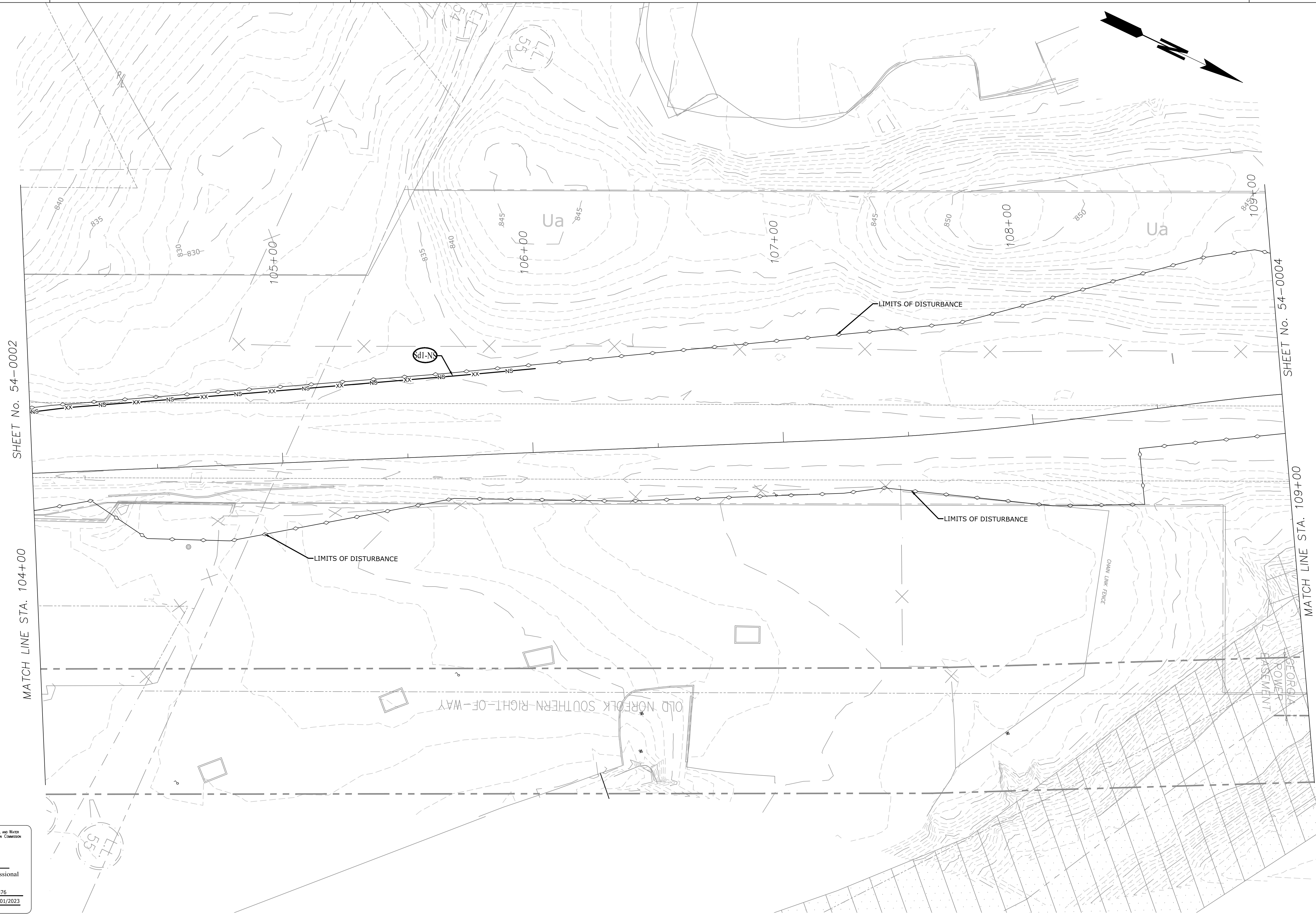
580 W Crossville Road
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0002
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CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0002

MATCH LINE STA. 104+00

SHEET No. 54-0004

MATCH LINE STA. 109+00

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CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

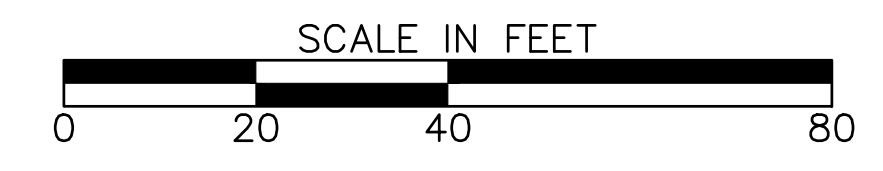
ATLANTA BELTLINE, INC.
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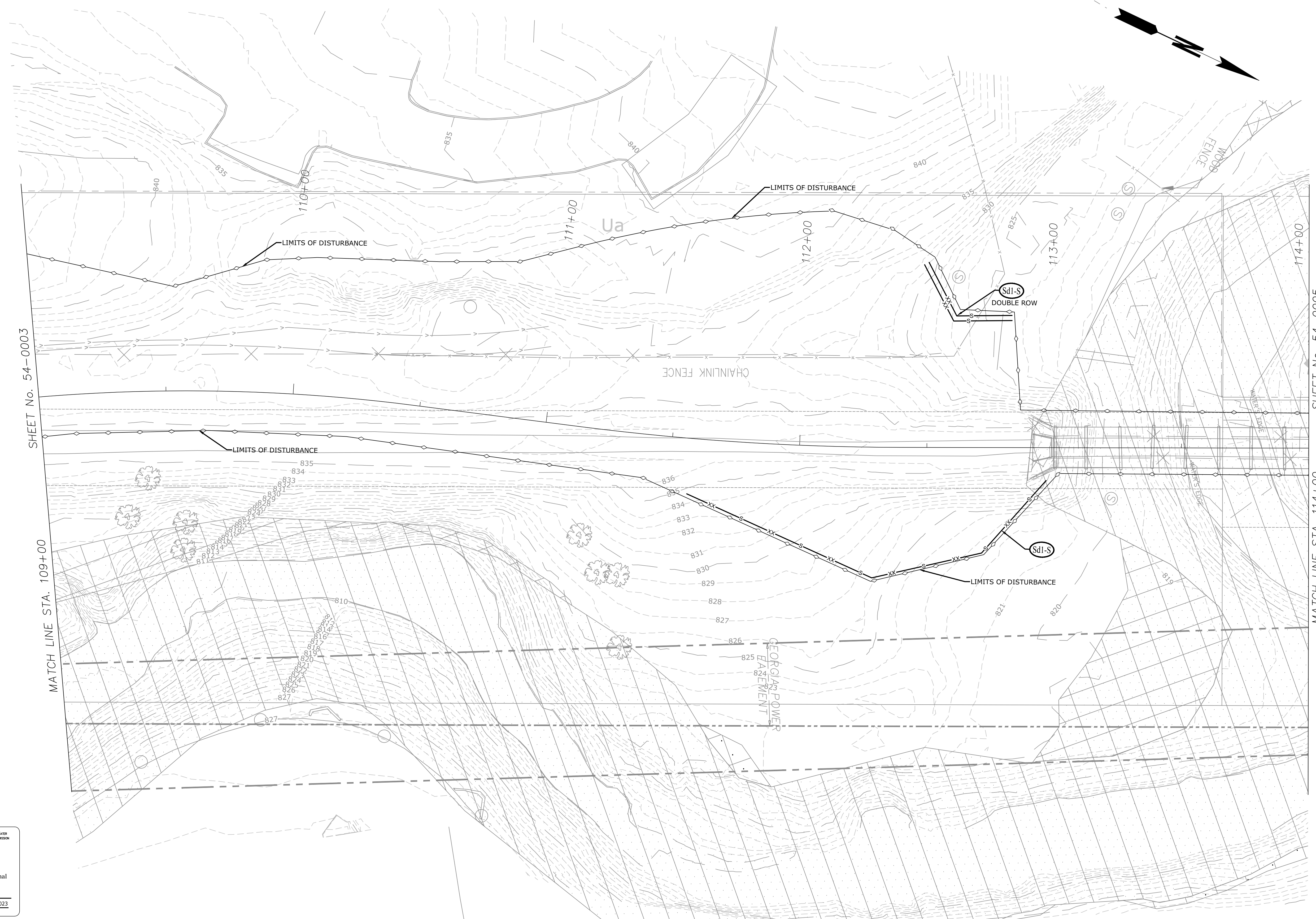
580 W Crossville Road
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



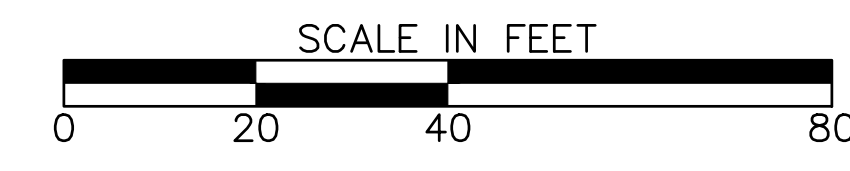
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 Certification Number: 000060876
 Issued: 03/01/2020 Expires: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

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 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
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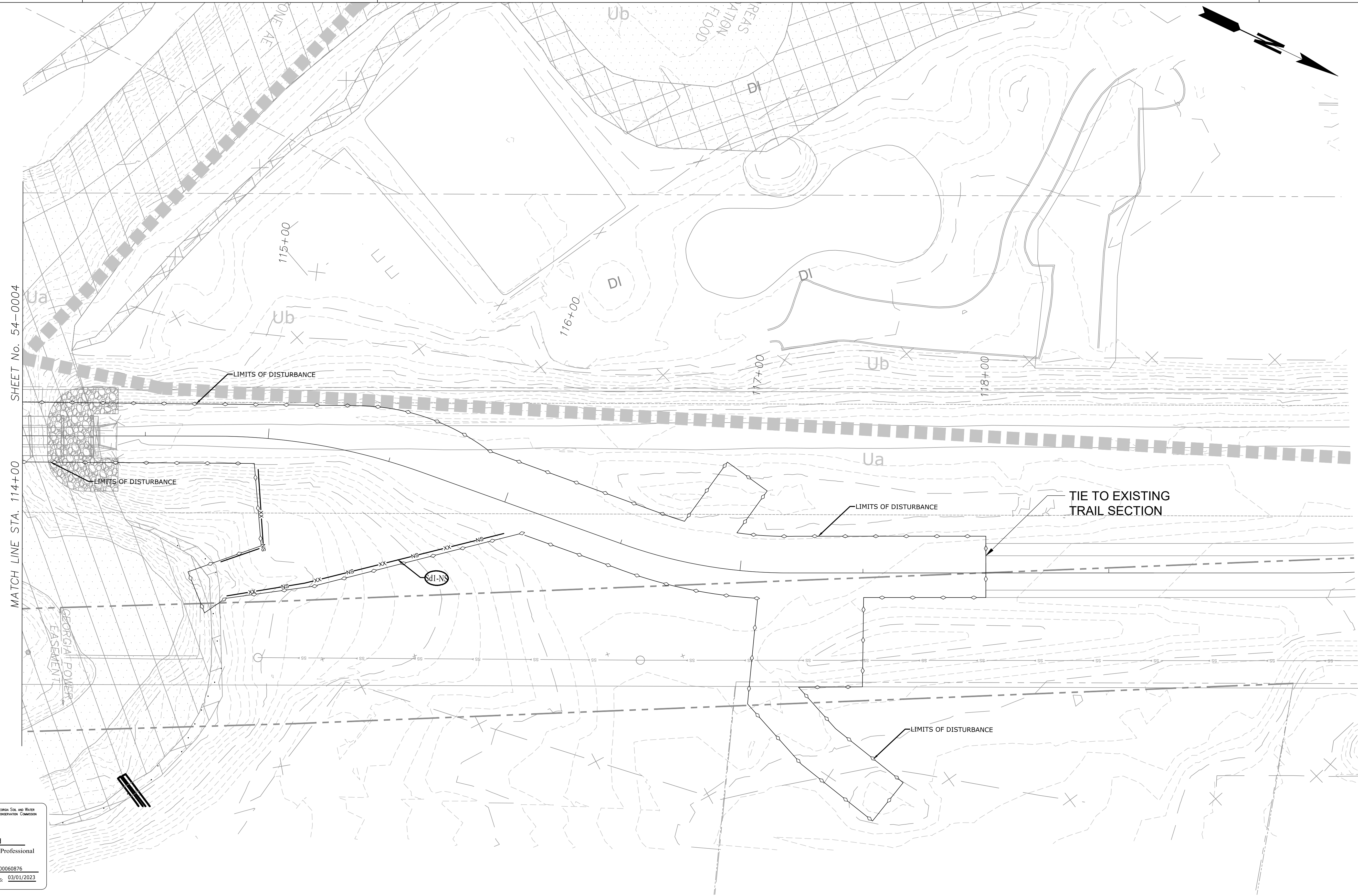
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 Roswell, GA 30075
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



GSWCC Georgia Soil and Water Conservation Commission

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

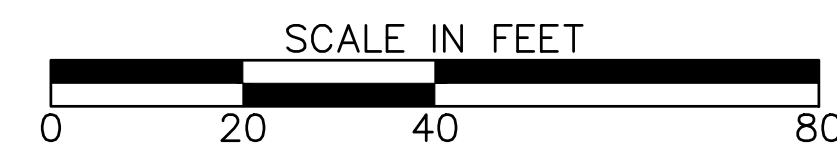
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
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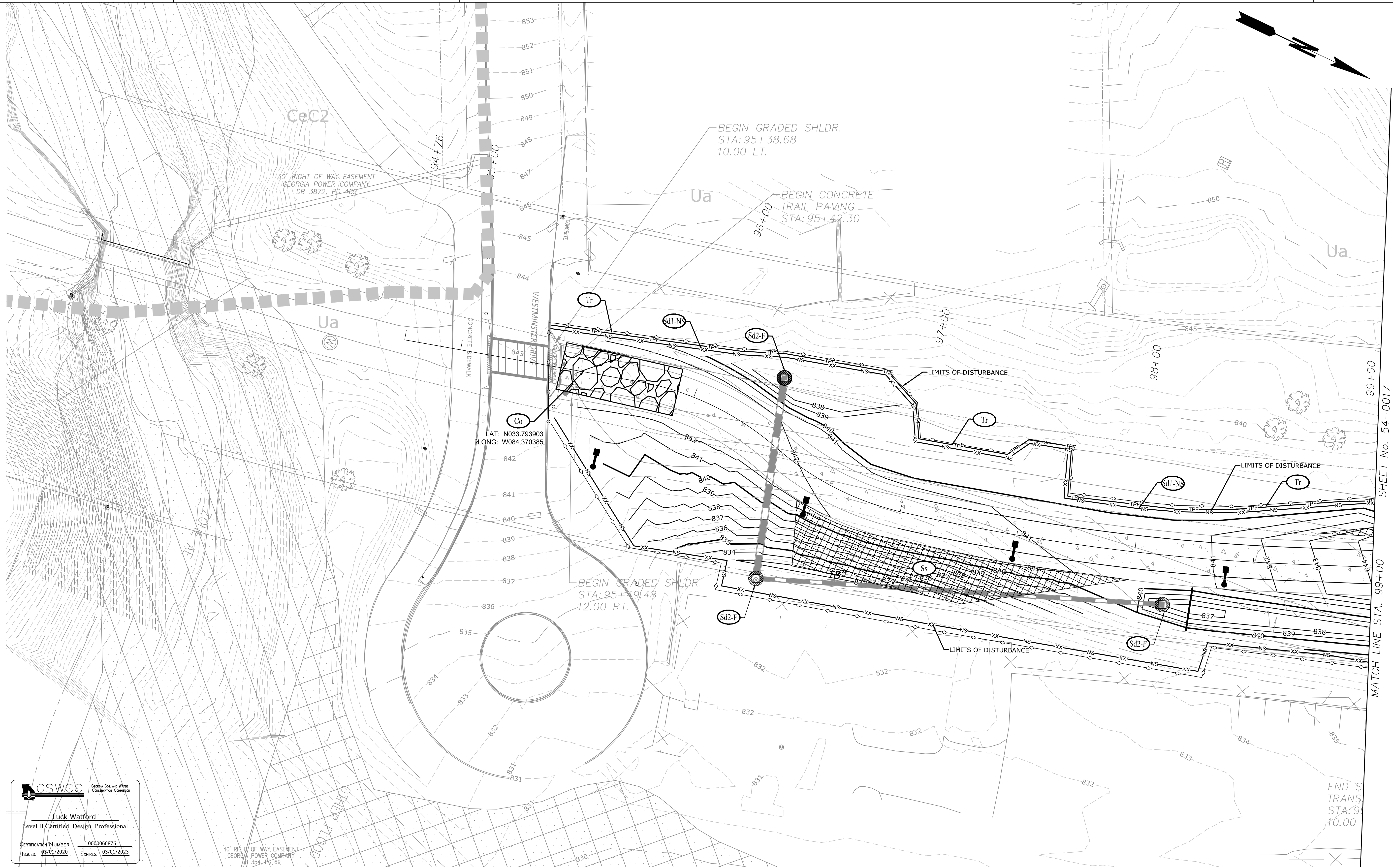
580 W Crossville Road
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0017
MATCH LINE STA. 99+00

END S
TRANS
STA: 9
10.00

GSWCC Georgia Soil and Water Conservation Commission

Luck Watford
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CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

40' RIGHT OF WAY EASEMENT
GEORGIA POWER COMPANY
DB 354, PG. 69

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

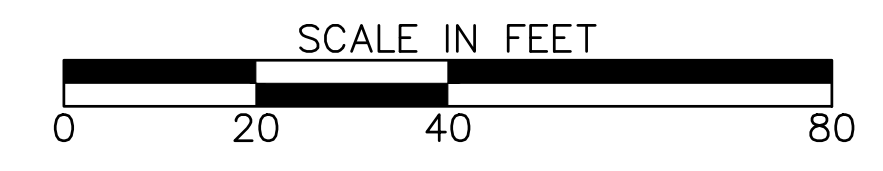
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
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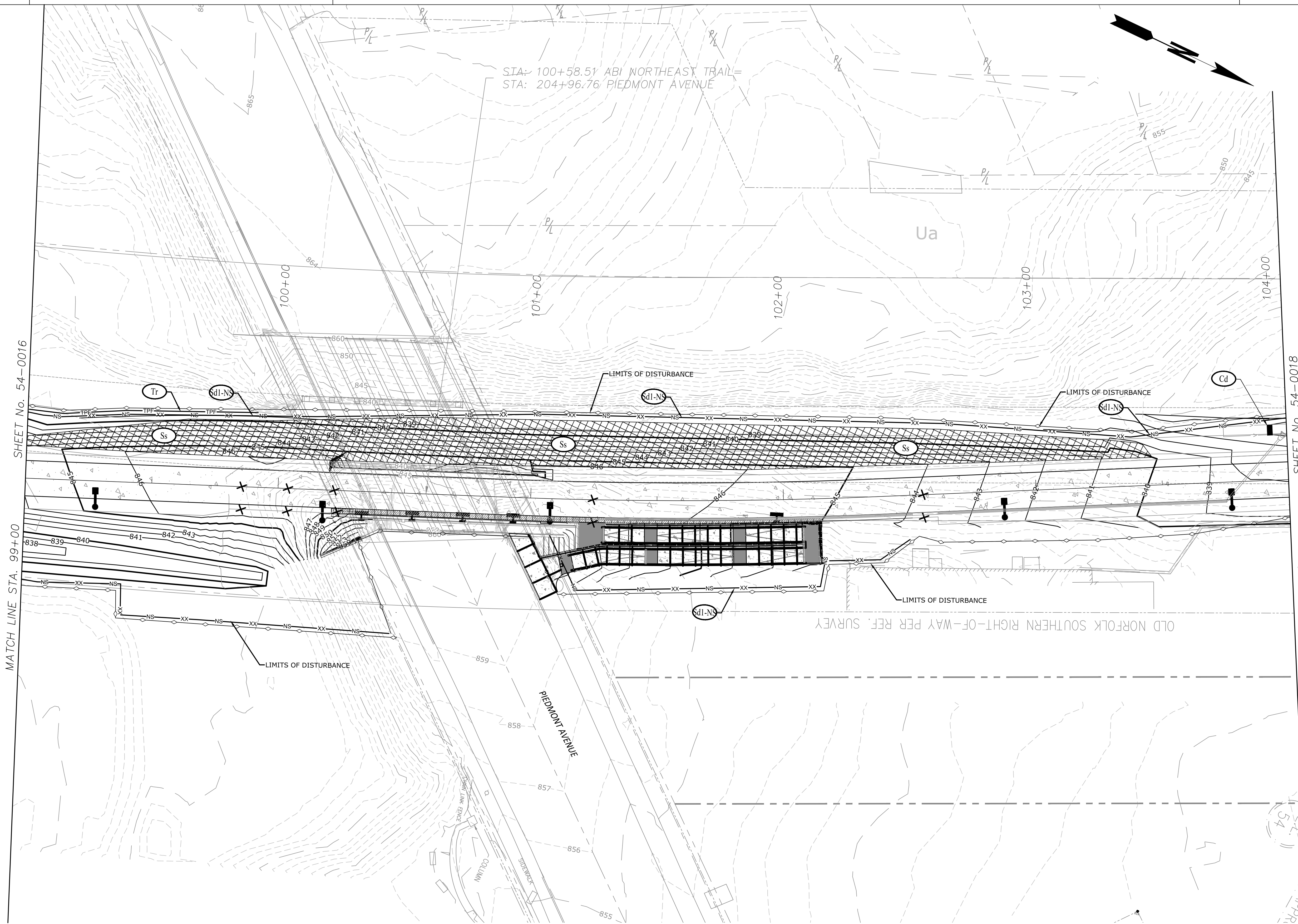
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0016
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0016

SHEET No. 54-0018

MATCH LINE STA. 99+00

MATCH LINE STA. 104+00

GSWCC
Georgia Soil and Water
Construction Commission

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

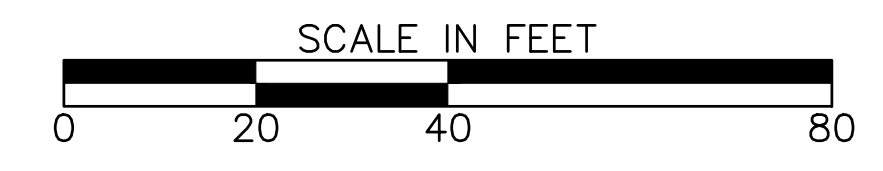
ATLANTA BELTLINE, INC.
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FAX: (404) 477-3606

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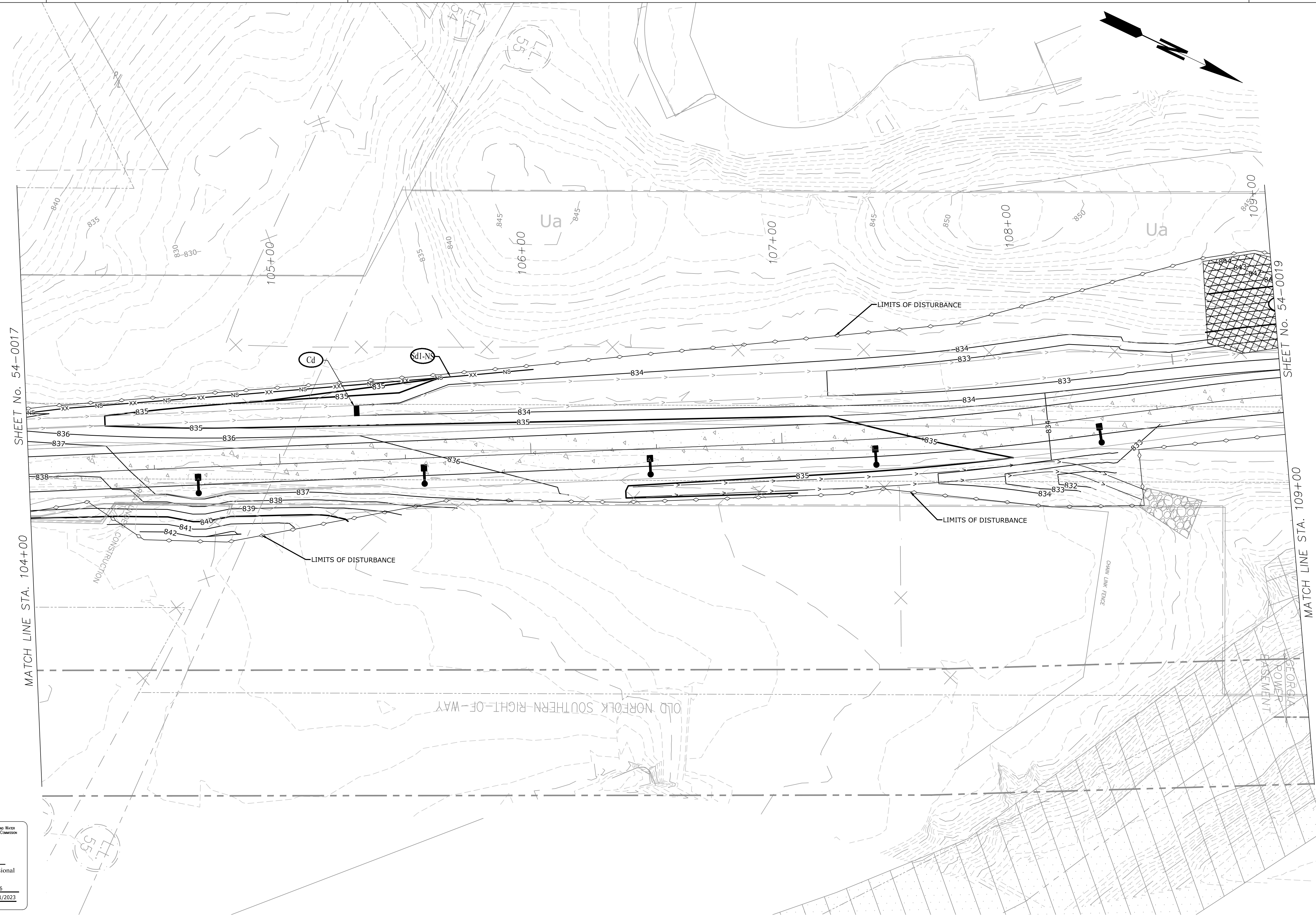


REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

DRAWING No.
54-0017



SHEET No. 54-0017

MATCH LINE STA. 104+00

SHEET No. 54-0019

MATCH LINE STA. 109+00

GSWCC Georgia Soc. of Water
Construction Engineers

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

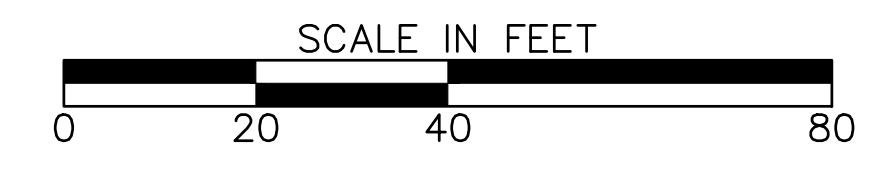
ATLANTA BELTLINE, INC.
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SUITE 2300
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RIVER TO TAP

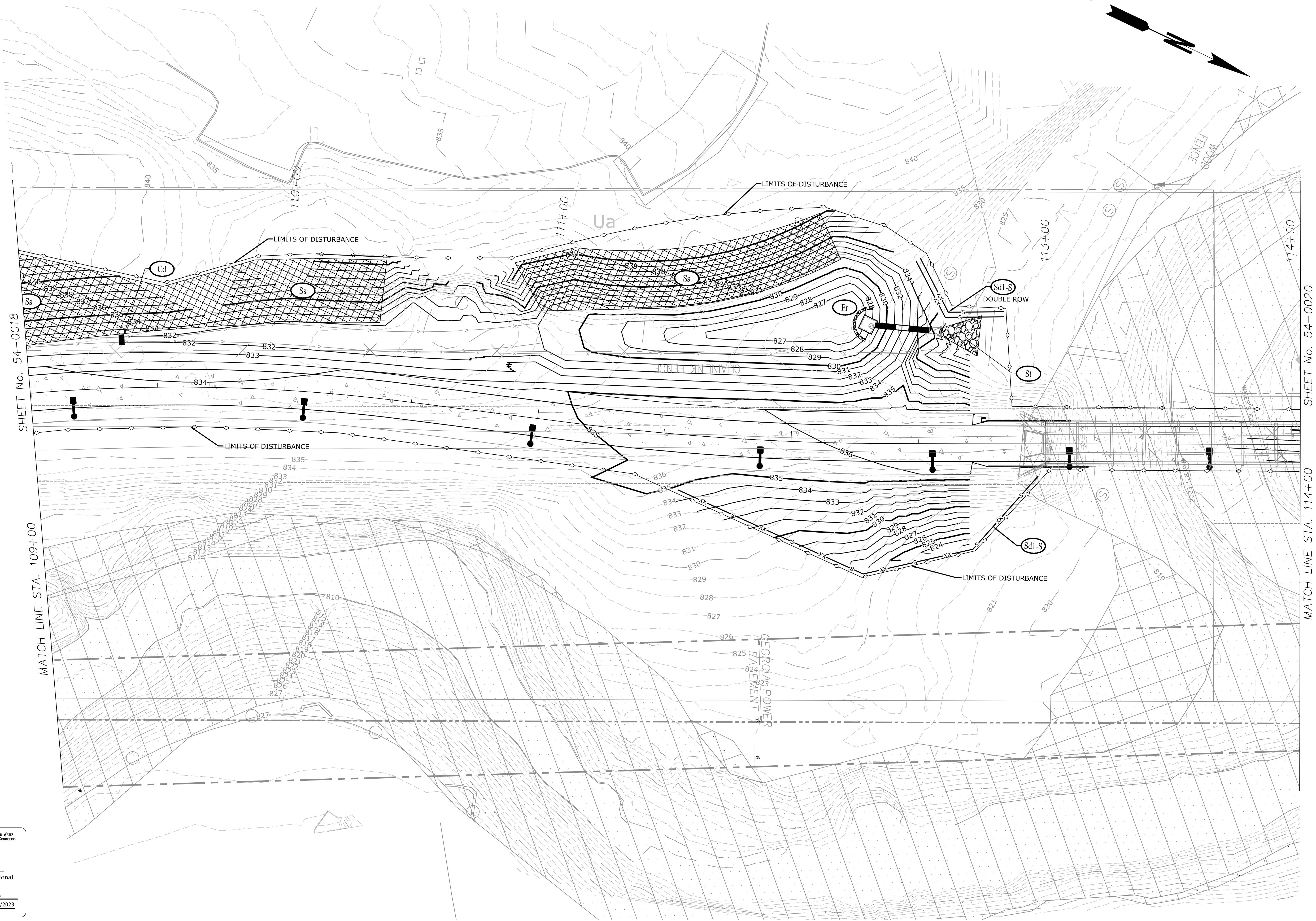
580 W Crossville Road
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0018
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0018

MATCH LINE STA. 109+00

SHEET No. 54-0020

MATCH LINE STA. 114+00

GSWCC Georgia Soil and Water Construction Commission

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

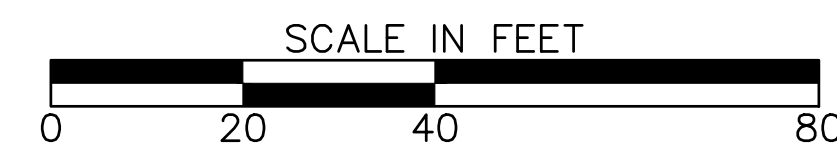
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
SUITE 2300
ATLANTA, GA 30303
TEL: (404) 477-3003
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R2T
RIVER TO TAP

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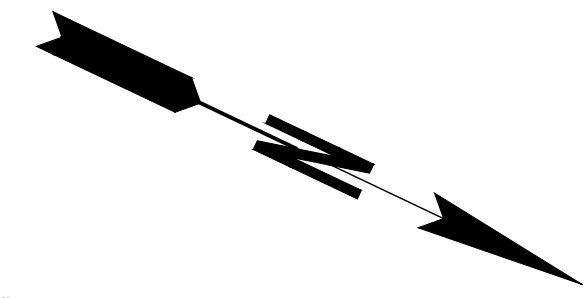
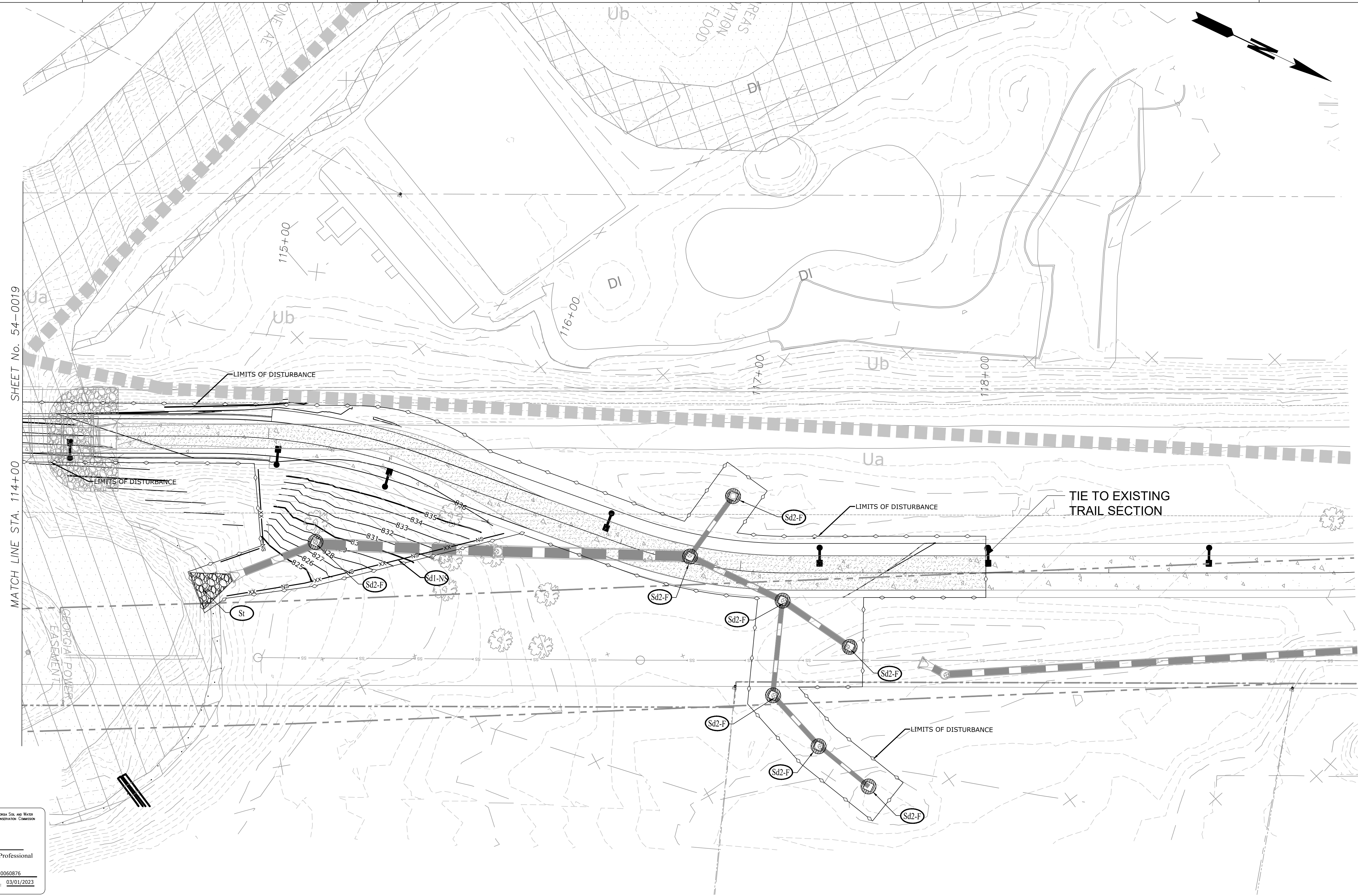


REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0019
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



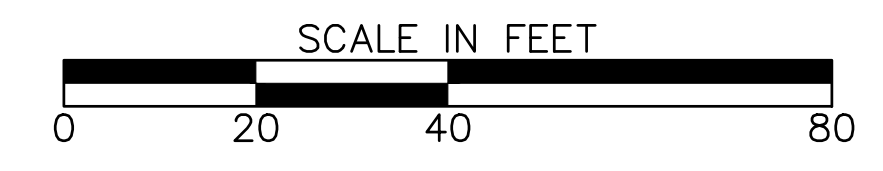
GSWCC Georgia Soil and Water Conservation Commission
Luck Watford
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 0000060876
 ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine
 ATLANTA BELTLINE, INC.
 100 PEACHTREE STREET, NW
 SUITE 2300
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 THE BILTMORE, SUITE 601
 817 WEST PEACHTREE STREET, NW
 ATLANTA, GEORGIA 30308
 TEL: (404) 419-8700

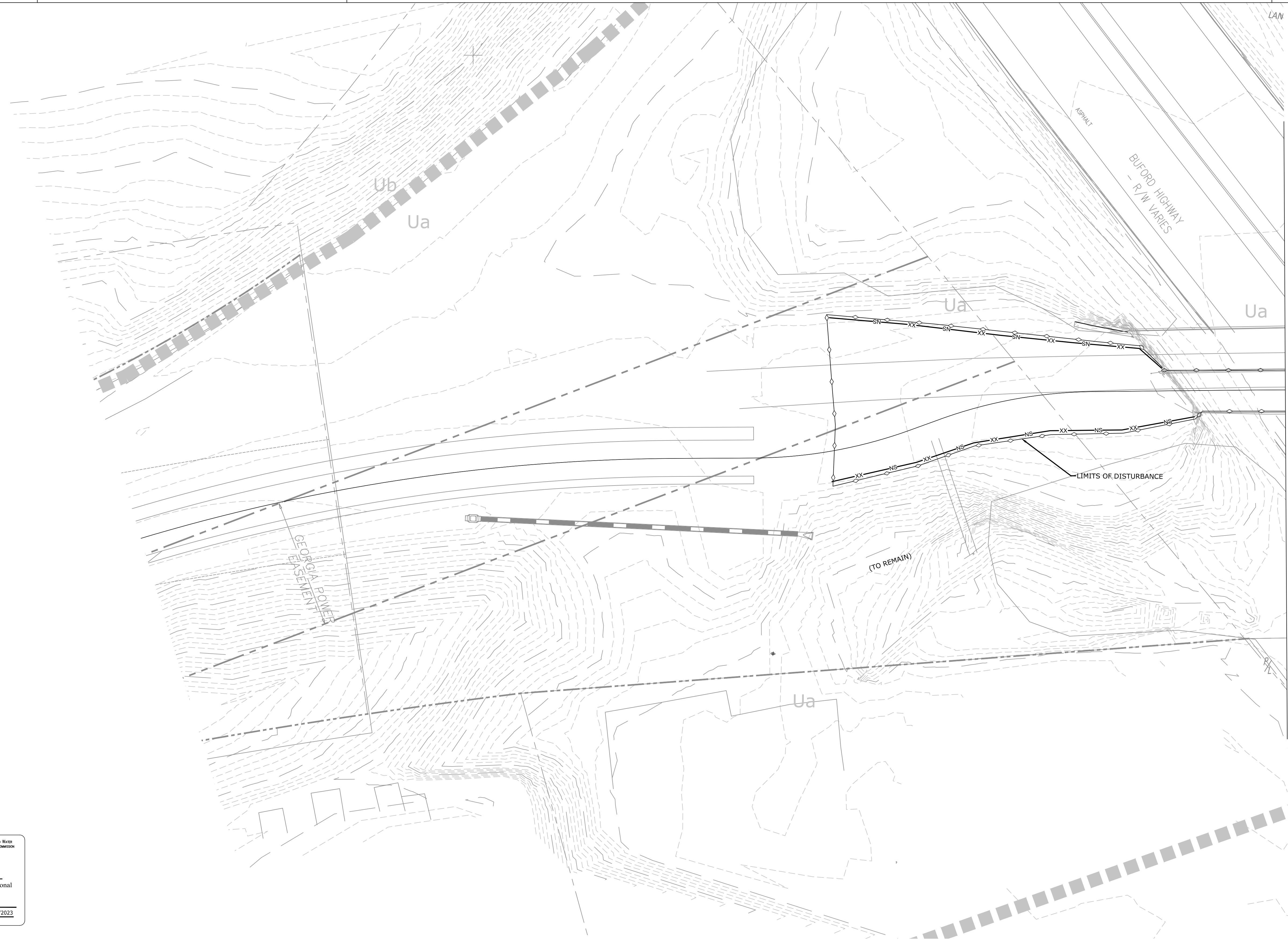
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 Suite 101
 Roswell, GA 30075
 PHONE: (770) 569-7038
 WWW.R2TINC.COM



REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0020
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0012
MATCH LINE STA. 150+00

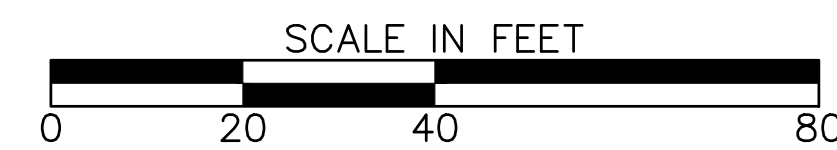
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Luck Watford
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 0000060876
 ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

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 Roswell, GA 30075
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0011
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0011
MATCH LINE STA. 150+00

SHEET No. 54-0013
MATCH LINE STA. 155+00

GSWCC Georgia State and Water Conservation Commission

Luck Watford
Level II Certified Design Professional

Certification Number: 0000060876
Issued: 03/01/2020 Expires: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

Atlanta BeltLine

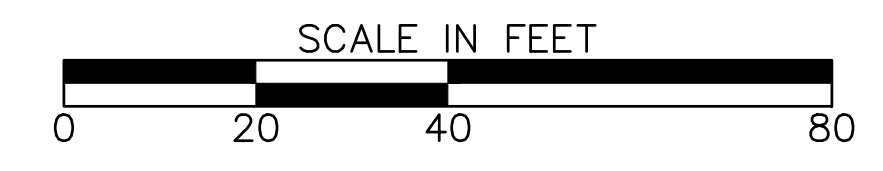
ATLANTA BELTLINE, INC.
100 PEACHTREE STREET, NW
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ATLANTA, GA 30303
TEL: (404) 477-3003
FAX: (404) 477-3606

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
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RIVER TO TAP

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Suite 101
Roswell, GA 30075
PHONE: (770) 569-7038
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0012
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



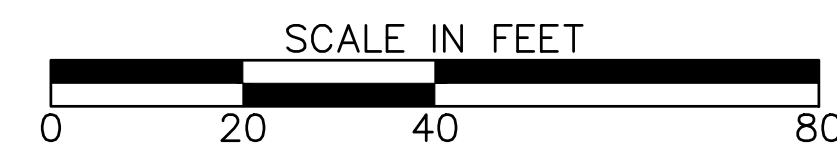
GSWCC Georgia Soil and Water Conservation Commission
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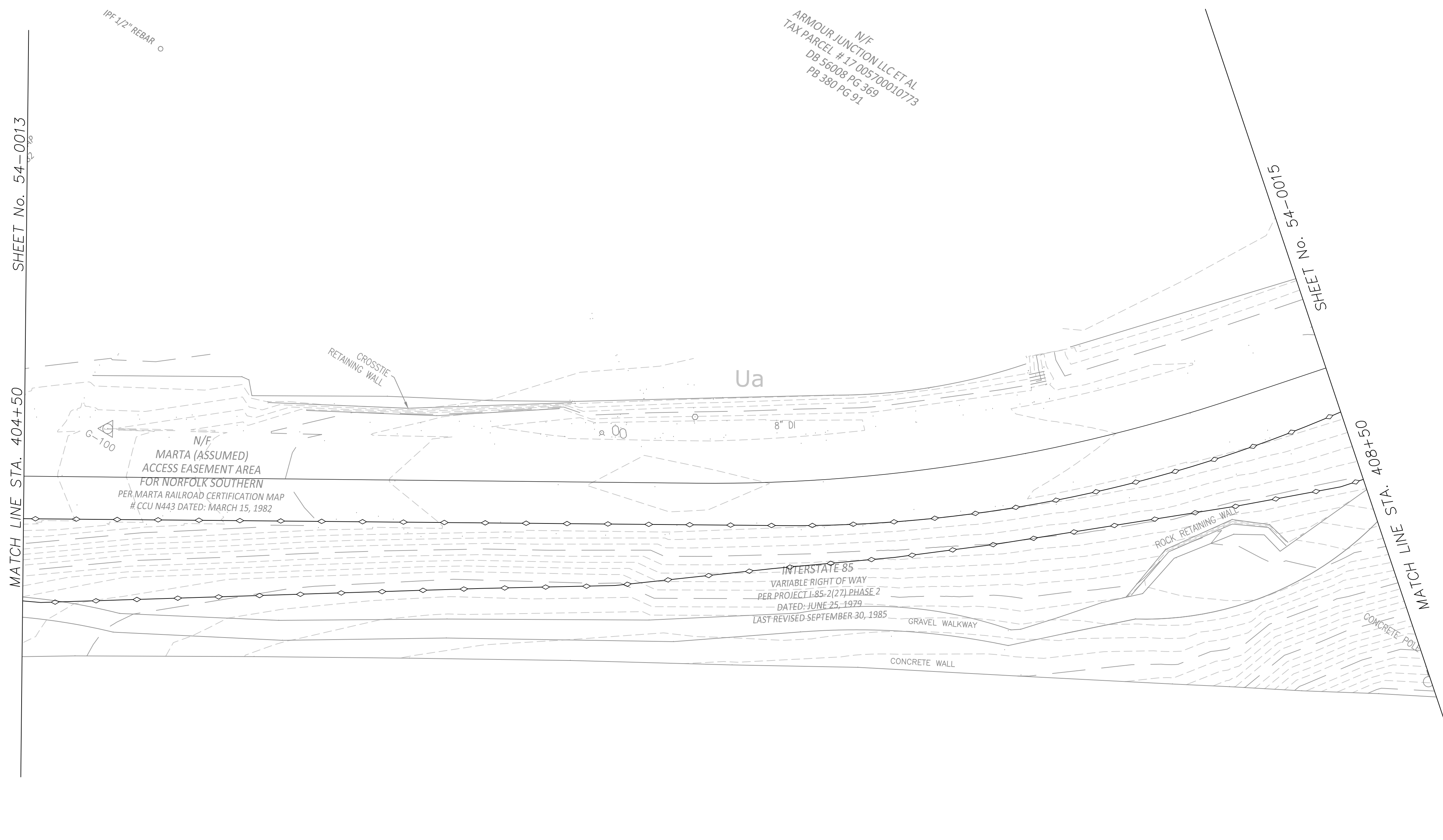
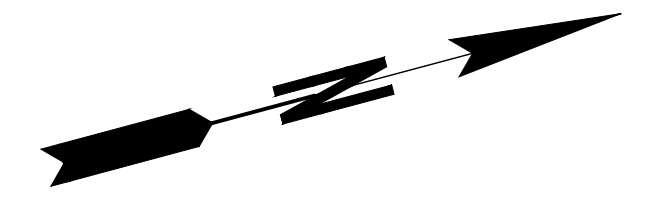
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL STAGE 1			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			54-0013



MATCH LINE STA. 404+50

SHEET No. 54-0015

MATCH LINE STA. 408+50

GSWCC Georgia State and Water Conservation Commission

Luck Watford
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CERTIFICATION NUMBER: 0000050876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

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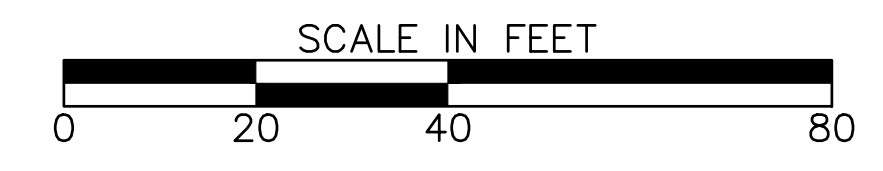
ATLANTA BELTLINE, INC.
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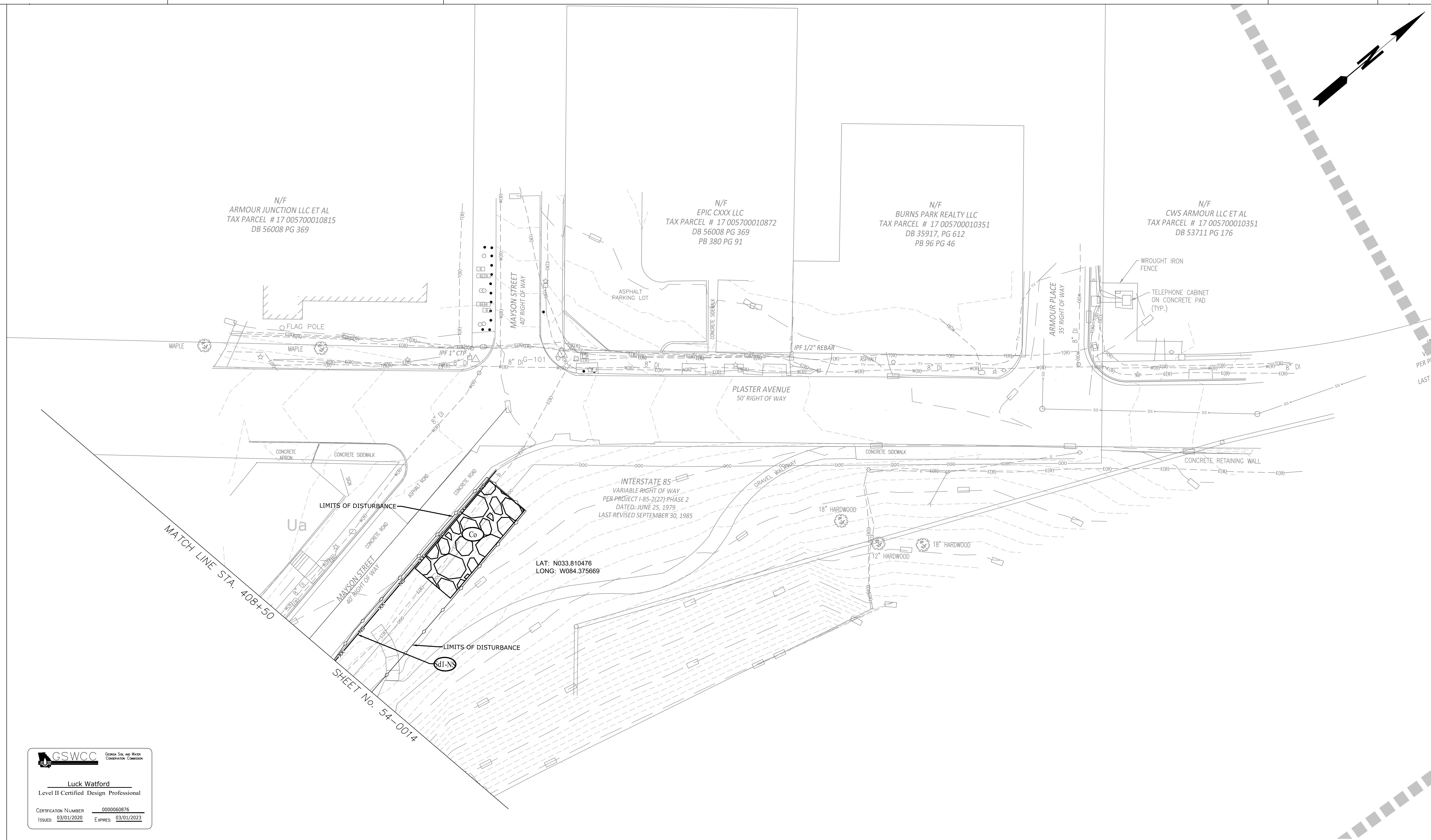
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0014
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 1

CHECKED:	DATE:	DRAWING No. 54-0015
BACKCHECKED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0027

MATCH LINE STA. 150+00

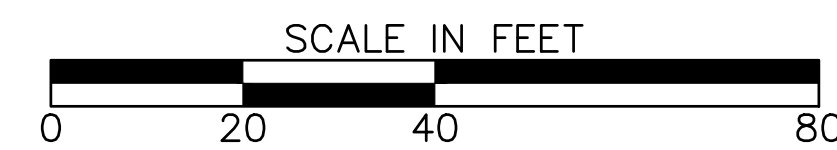
GSWCC Georgia Soil and Water Conservation Commission
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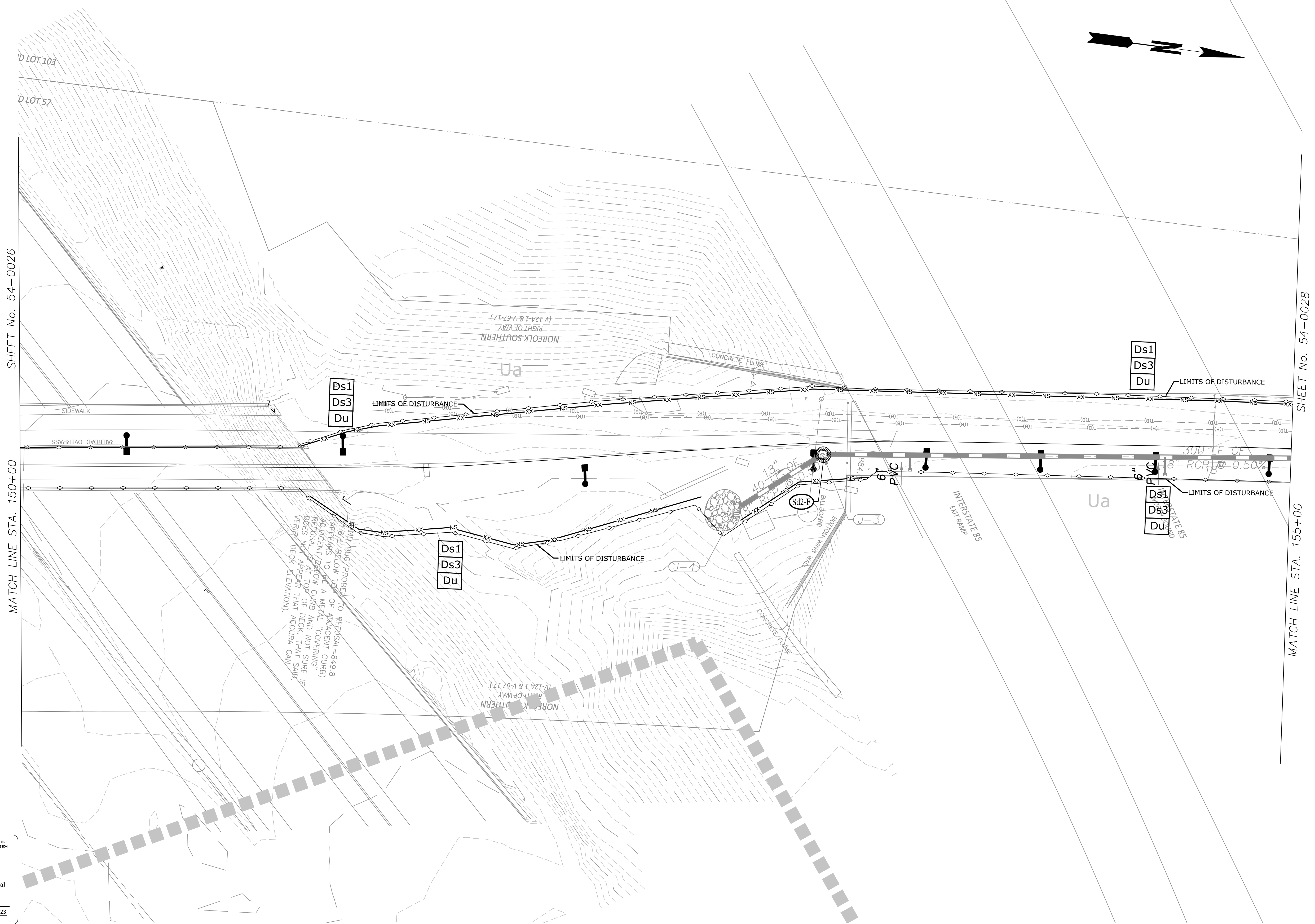


REVISION DATES

NO.	DATE	DESCRIPTION

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0026
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SHEET No. 54-0026

SHEET No. 54-0028

MATCH LINE STA. 150+00

MATCH LINE STA. 155+00

HAND DUG / PROBED TO REFUSAL = 849.8
APPEARS TO BE A METAL COVERING
DEES NOT APPEAR THAT ACCURA CAN
VERIFY DECK ELEVATION.

GSWCC Georgia State and Water Conservation Commission

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000060876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
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SILT FENCE - NONSENSITIVE	
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Atlanta BeltLine

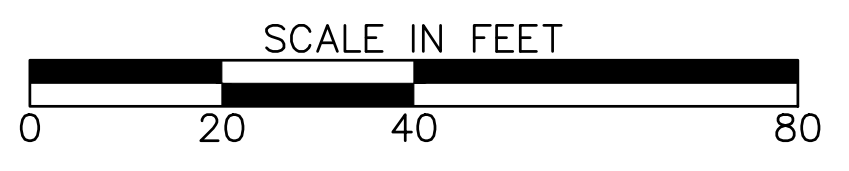
ATLANTA BELTLINE, INC.
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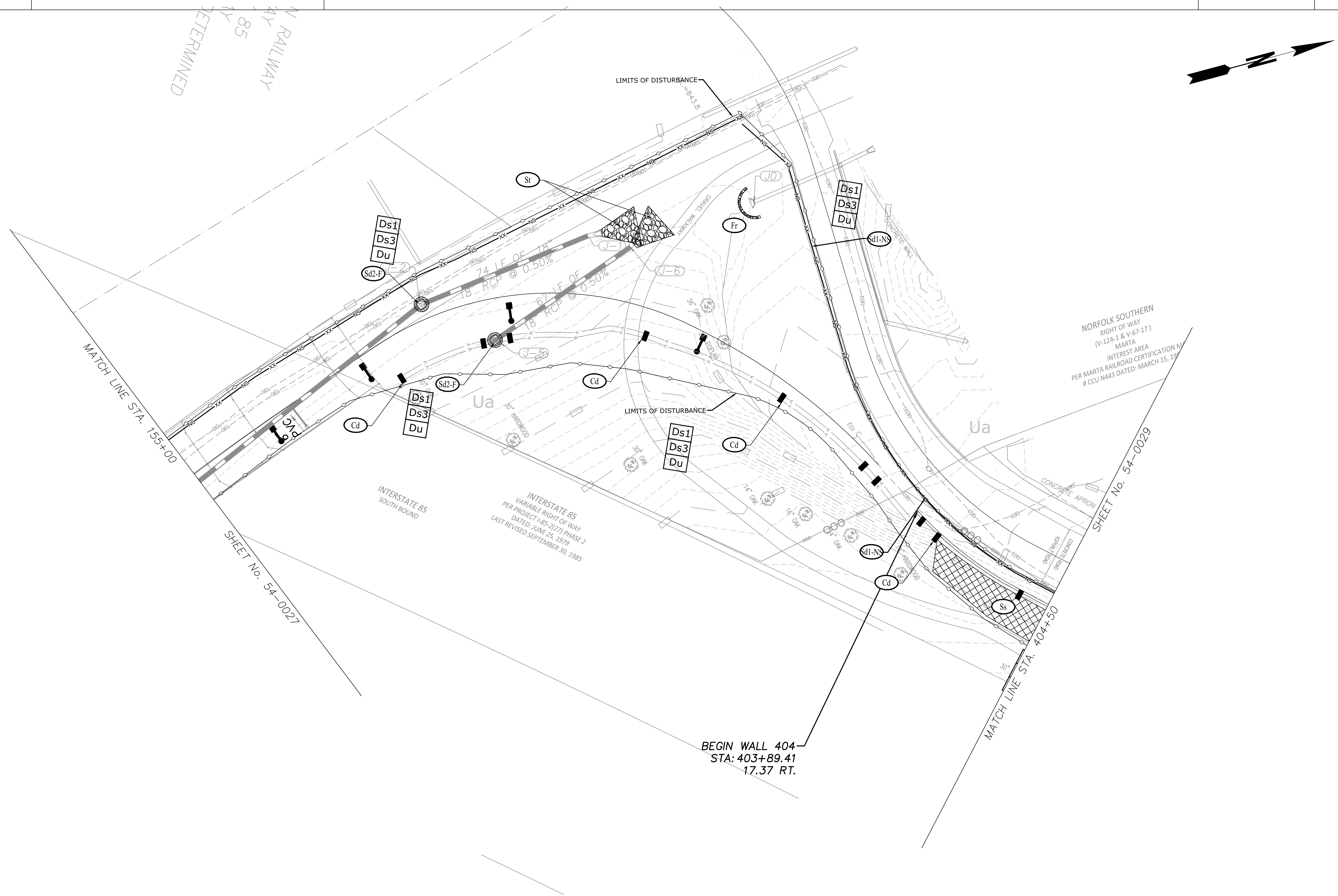
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0027
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



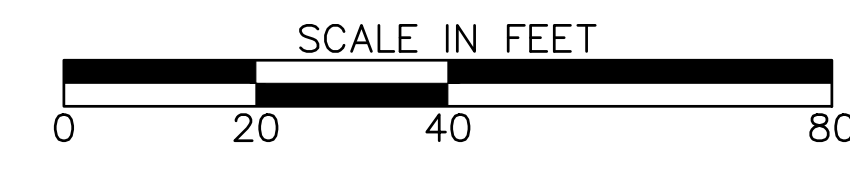
GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
Luck Watford
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 ISSUED: 03/01/2020 EXPIRES: 03/01/2023

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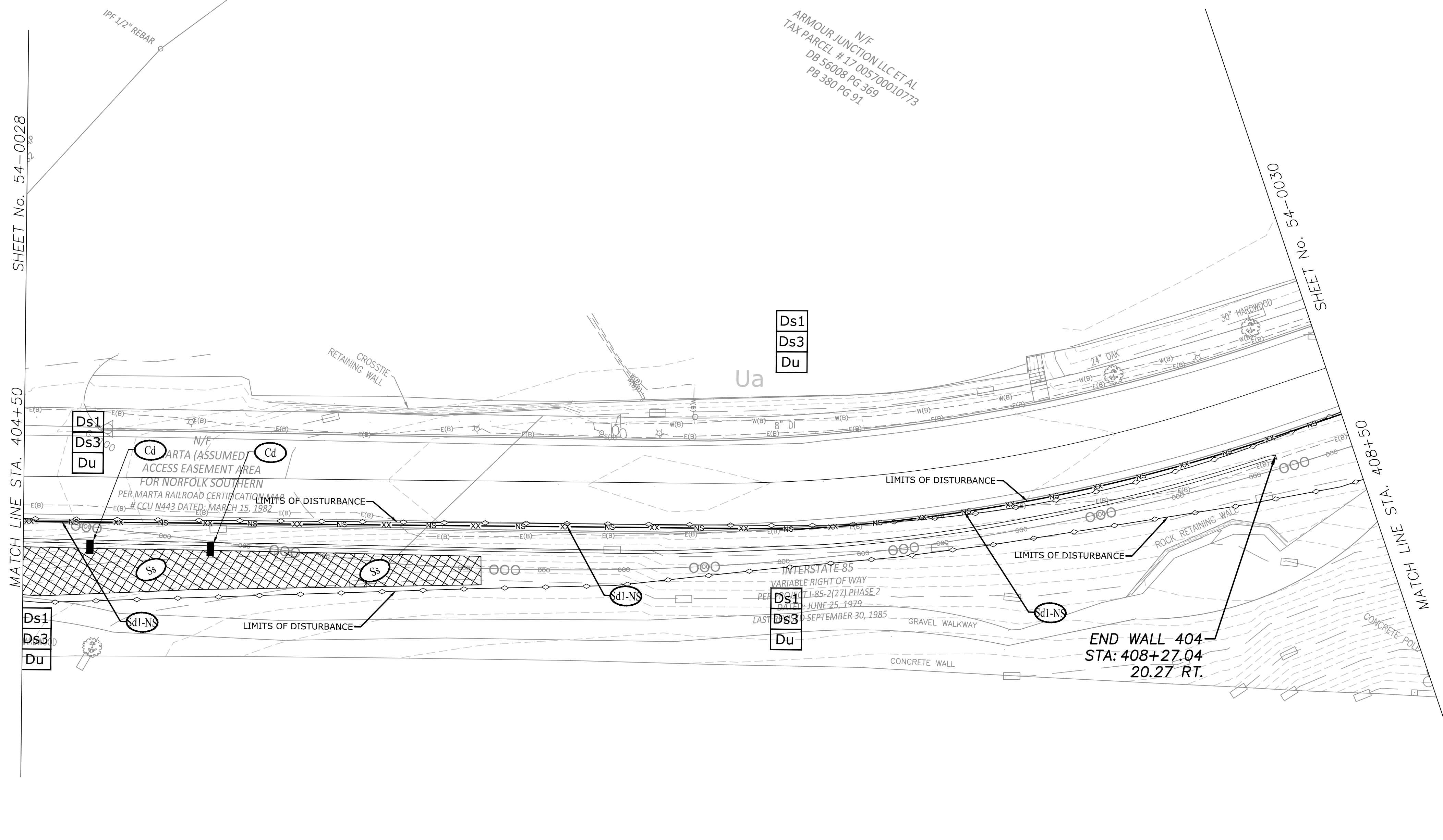
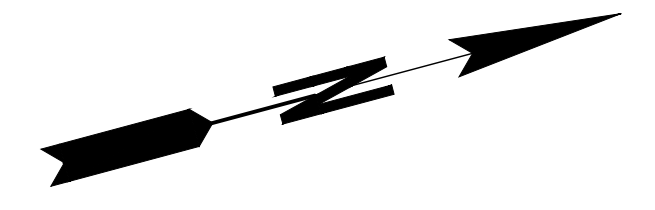
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0028
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



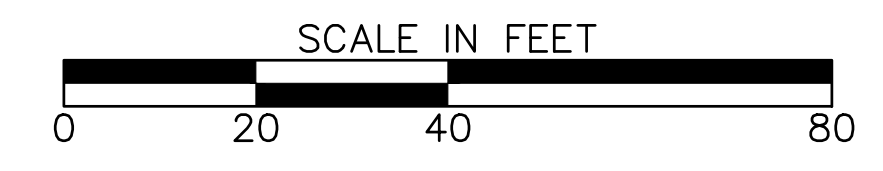
GSWCC Georgia Soil and Water Conservation Commission
Luck Watford
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 000060876
 ISSUED: 03/01/2020 EXPIRES: 03/01/2023

EROSION LEGEND	
ORANGE BARRIER FENCE	
SILT FENCE - SENSITIVE	
SILT FENCE - NONSENSITIVE	
PROPOSED SITE DEMOLITION	

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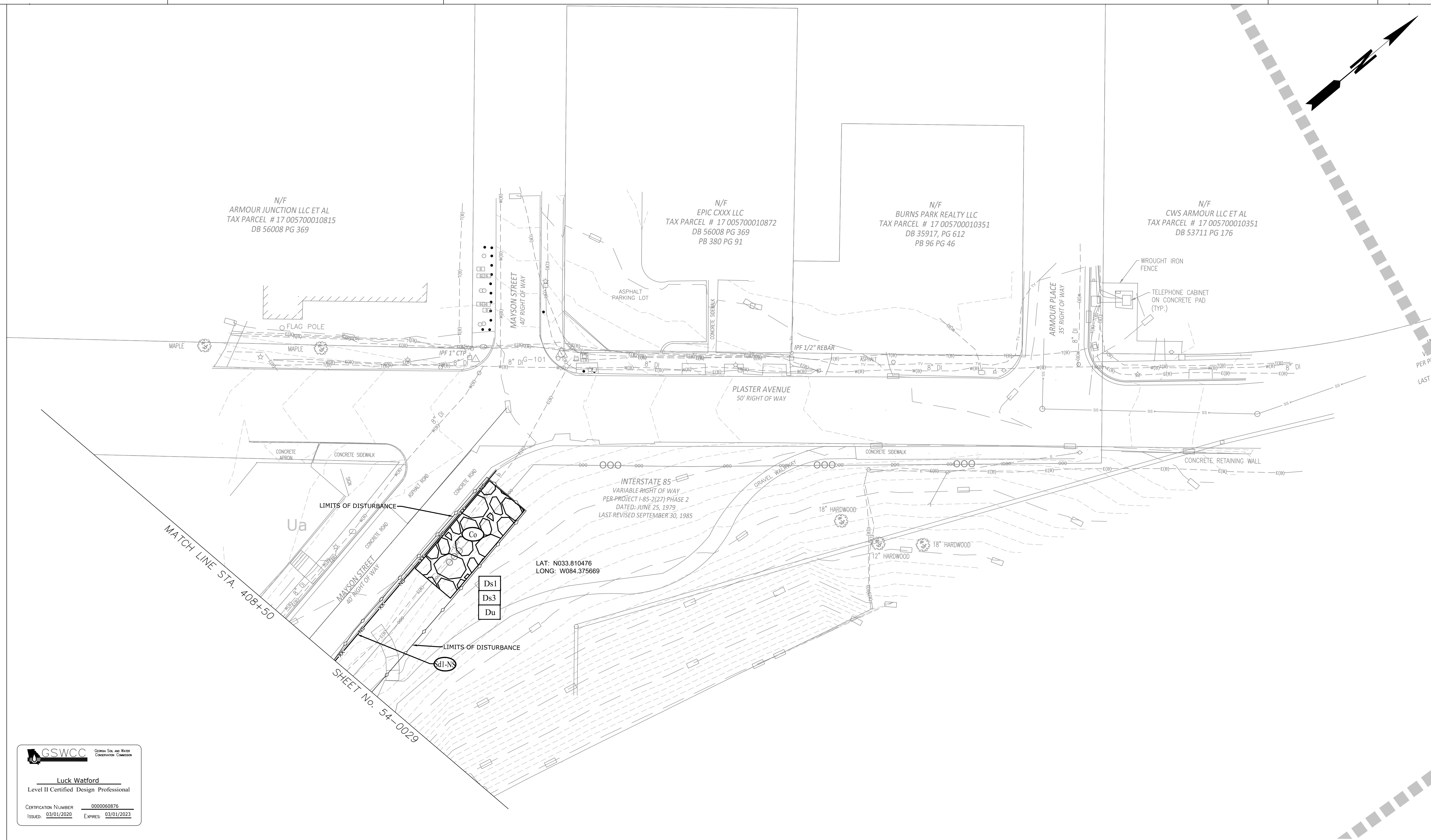
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REVISION DATES		

ATLANTA BELTLINE NORTHEAST TRAIL
 STAGE 2
 CHECKED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____
 CORRECTED: _____ DATE: _____
 VERIFIED: _____ DATE: _____
 DRAWING No.
54-0029



GSWCC Georgia State and Water Conservation Commission

Luck Watford
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000650876
ISSUED: 03/01/2020 EXPIRES: 03/01/2023

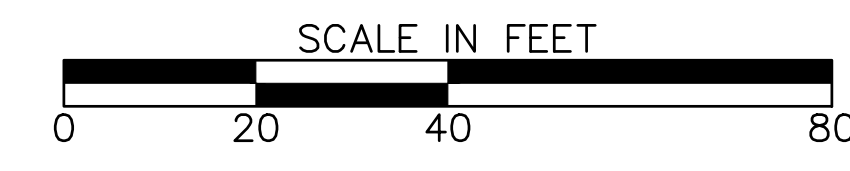
EROSION LEGEND	
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REVISION DATES	

ATLANTA BELTLINE NORTHEAST TRAIL
STAGE 2

CHECKED:	DATE:	DRAWING No. 54-0030
BACKCHECKED:	DATE:	
VERIFIED:	DATE:	

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
WL	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cq	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

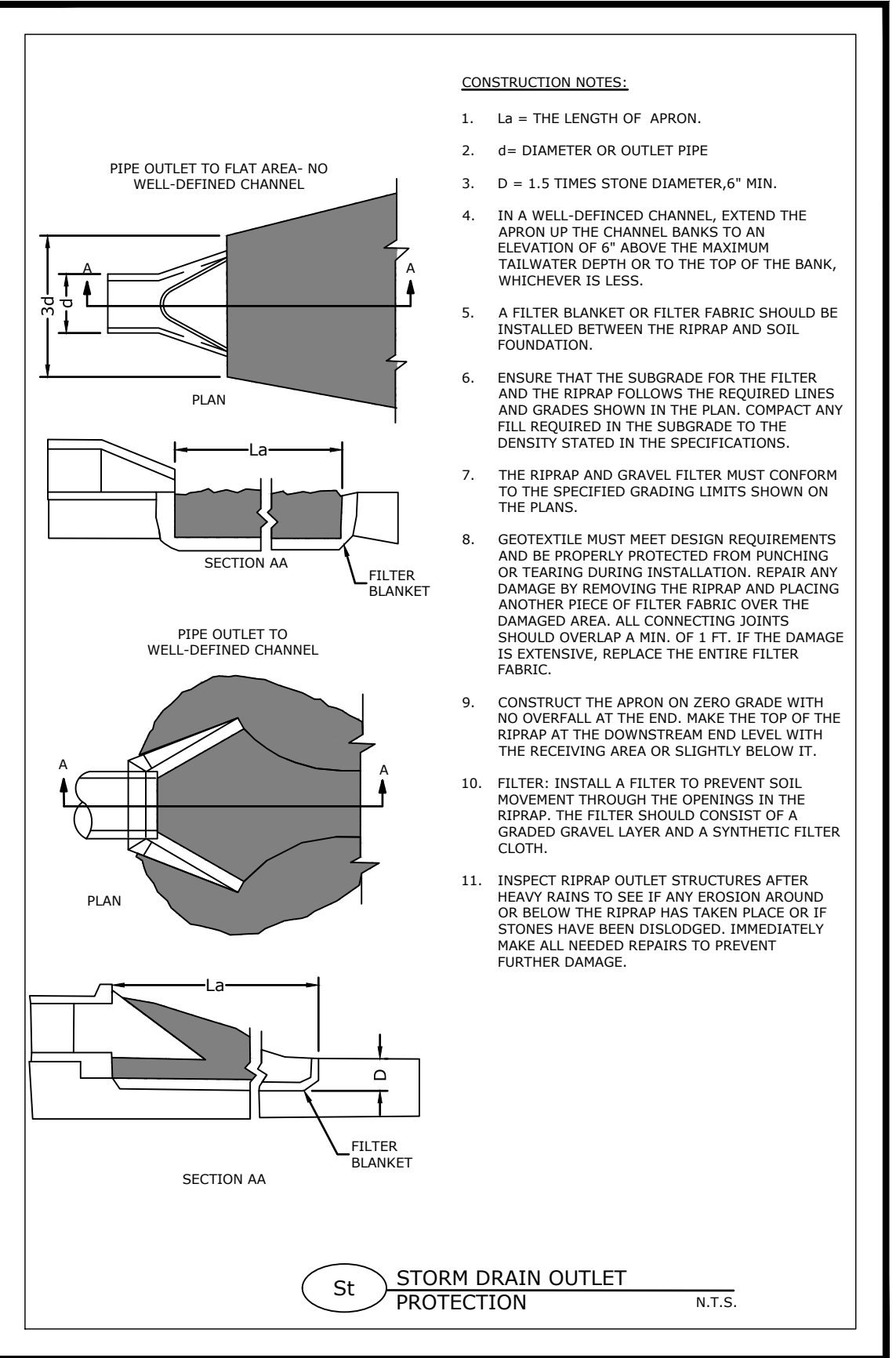
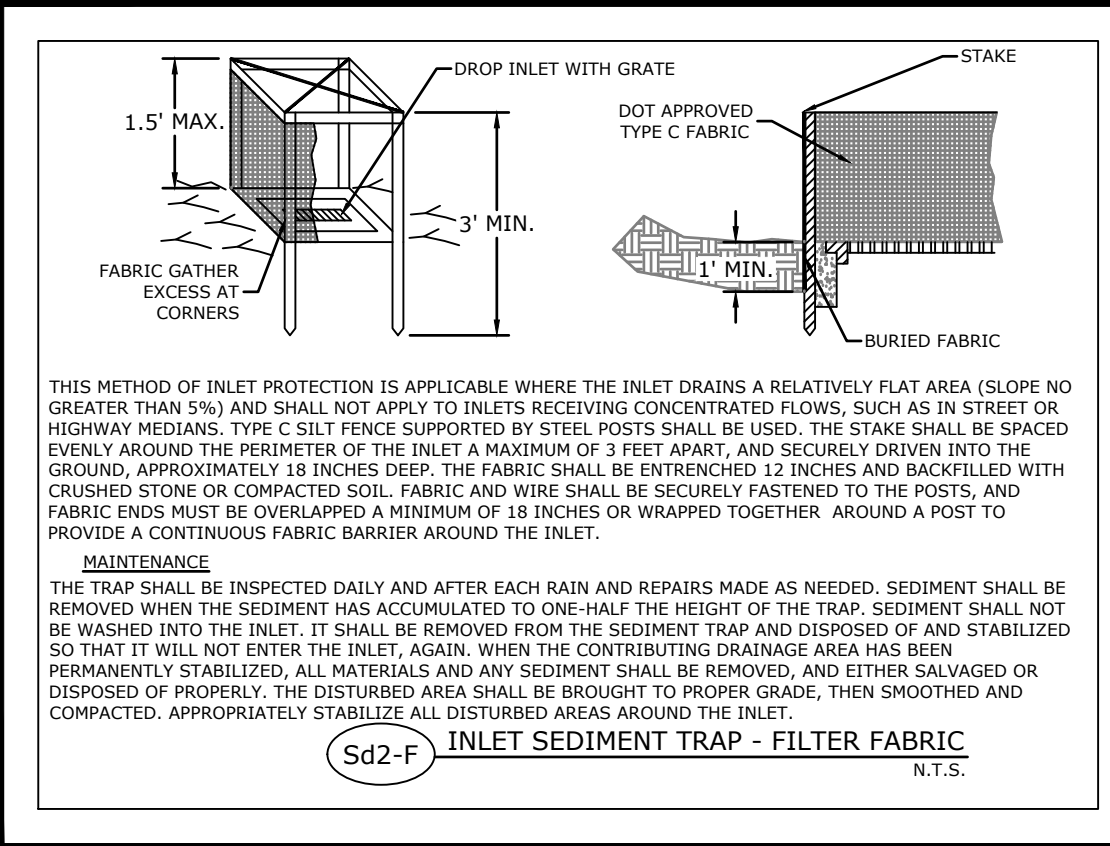
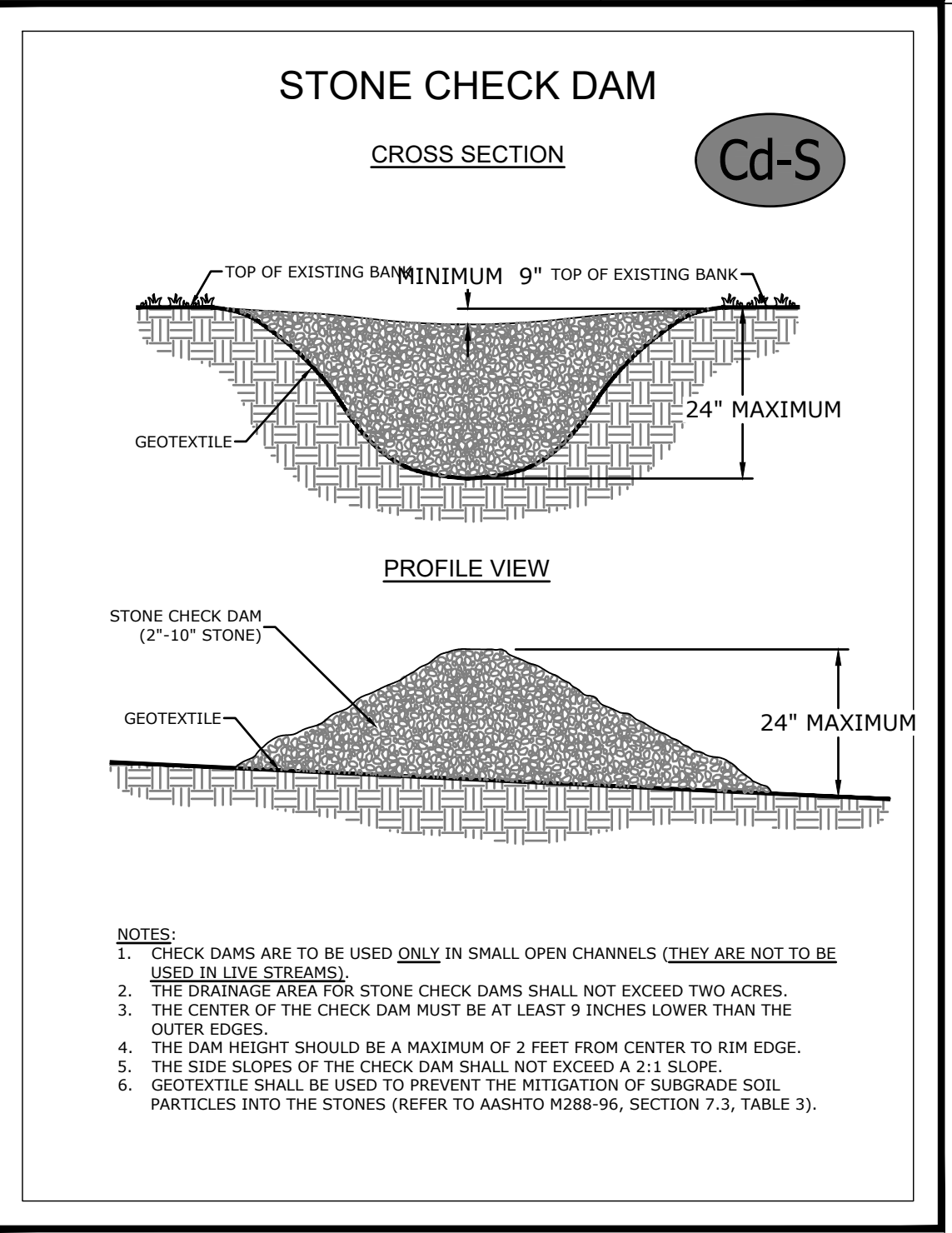
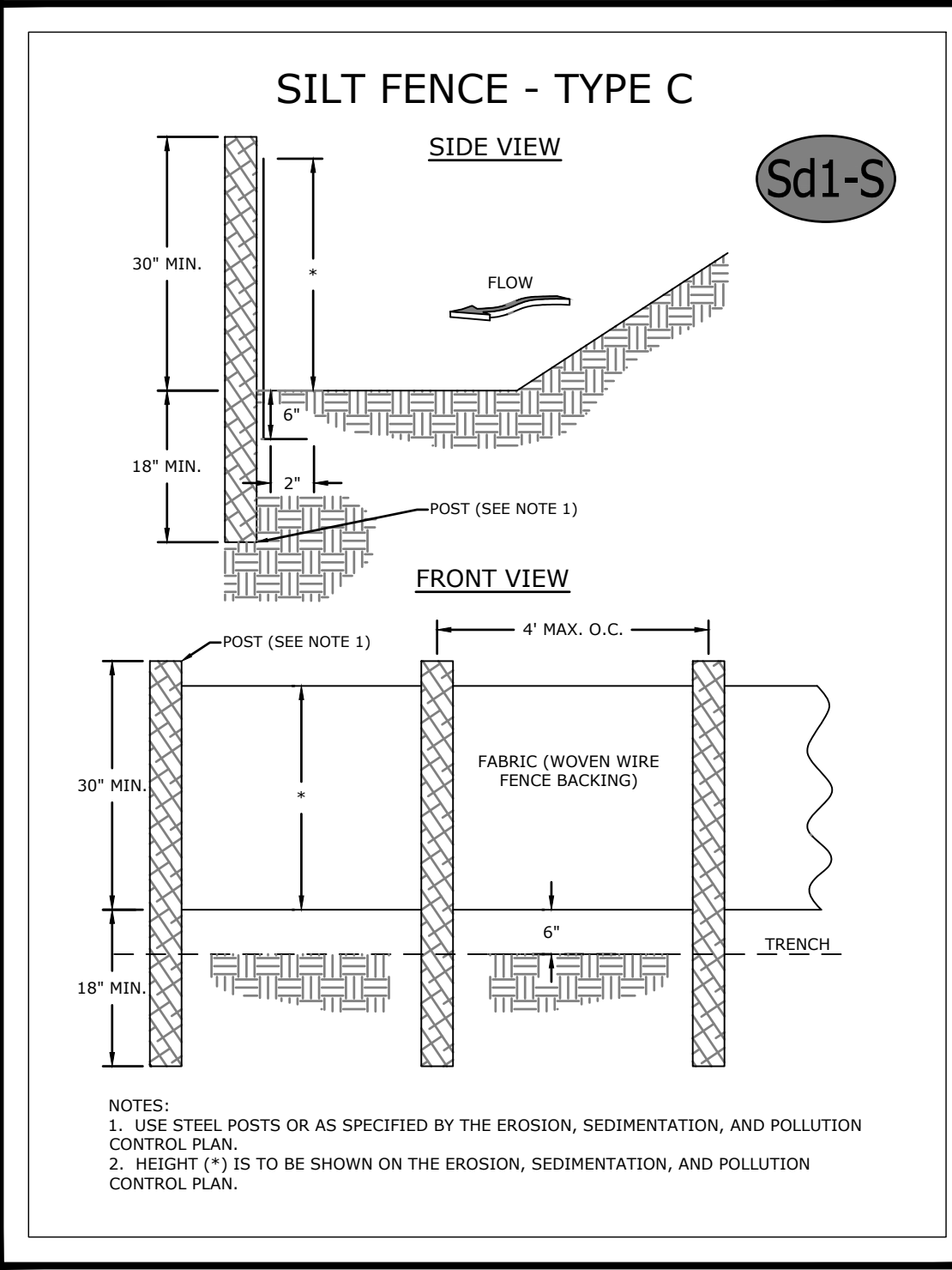
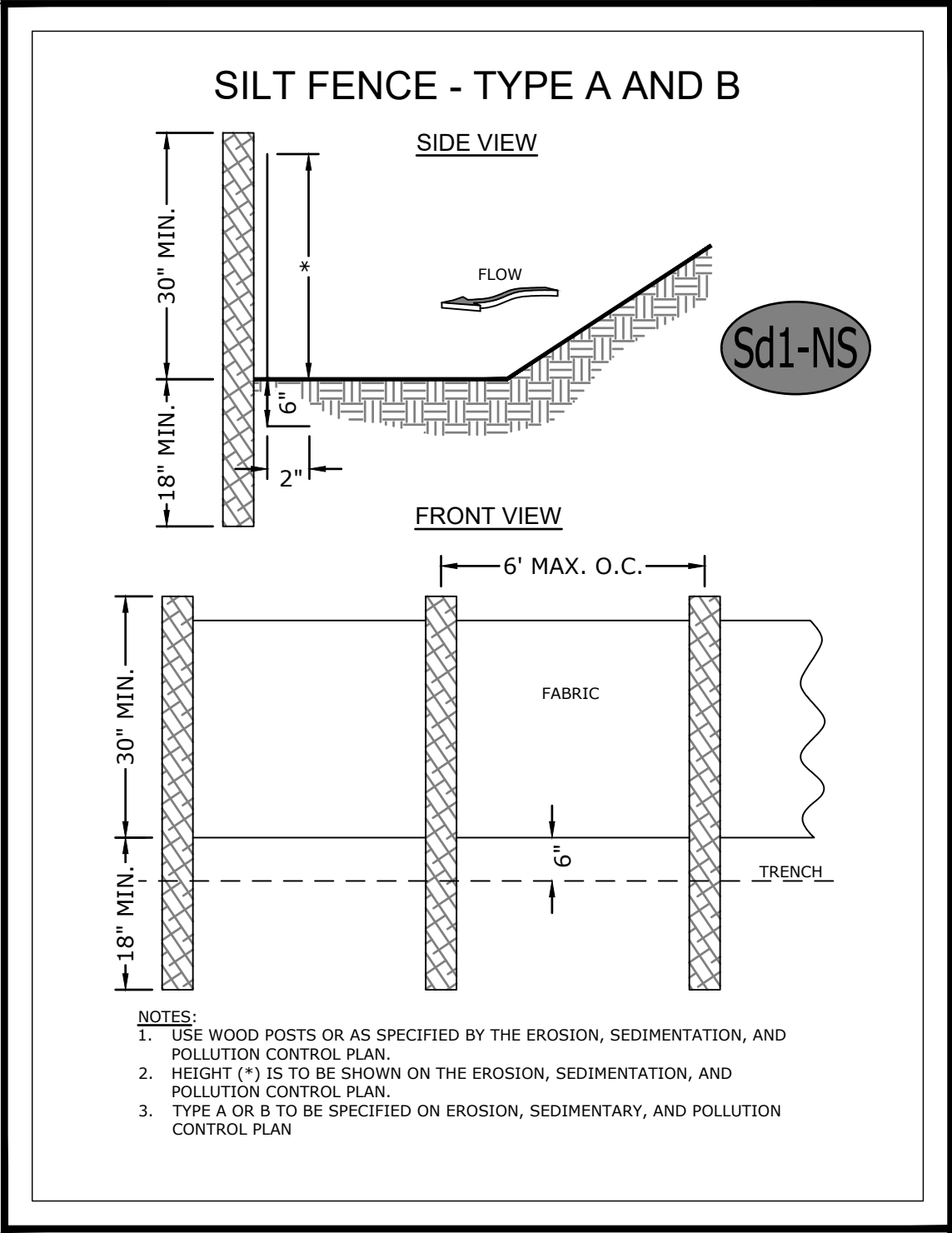
GSWCC (Amended - 2013)

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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24 HOUR CONTACT
KEVIN BURKE
(404)-477-3637



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REVISION DATES

ESPC DETAILS
ATLANTA BELTLINE NORTHEAST TRAIL

SCALE IN FEET

CHECKED:	DATE:	DRAWING No. 56-001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SPECIFICATIONS

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AND EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- MAXIMIZE EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
- LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

- DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQUARE YARD).
- POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

- STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION ON ALL SLOPES 5:1V OR GREATER.

STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TD - TACKIFIERS AND BINDERS. PLASTIC MESH OR

- NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds-1 DISTURBED AREA STABILIZATION w/MULCHING ONLY
N.T.S.

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENuded AREAS.

REQUIREMENT FOR REGULATORY COMPLIANCE

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING ARE LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. REFER TO SPECIFICATION TD-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE FITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZATION

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (1.5-1.6 LBS/ 1,000 S.F.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULT-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULT-PACKER SEEDERS SHOULD NORMALLY PLANT SEED ONE-QUARTER TO ONE-HALF INCH DEEP, APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

Ds-2 DISTURBED AREA STABILIZATION w/ TEMPORARY SEEDING
N.T.S.

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER 1000 S.F.	RESOURCE AREA 4/	PLANTING DATES												REMARKS		
			J	F	M	A	M	J	J	A	S	O	N	D			
BARLEY (Hordeum vulgare) ALONE IN MIXTURES	144 LBS. 3.3 LBS. 24 LBS. 0.6 LBS.	M-L P C															14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE
LESPEDEZA ANNUAL (Lespedeza sp.) ALONE IN MIXTURES	40 LBS. 0.9 LBS. 10 LBS. 0.2 LBS.	M-L P C															200,000 SEED PER POUND. MAY LAST FOR SEVERAL SEVERAL YEARS. USE TROUSLANT FL.
LOPERGAS, WEEPING (Lespedeza solum) ALONE IN MIXTURES	4 LBS. 0.1 LBS. 2 LBS. 0.05 LBS.	M-L P C															1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SEEDS OF LESPEDEZA
MILLET, BROWNTOP (Panicum fasciculatum) ALONE IN MIXTURES	40 LBS. 0.9 LBS. 10 LBS. 0.2 LBS.	M-L P C															137,000 SEED PER POUND. QUICK GROWER. COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDING AT HIGH RATES.
RYE (Secale cereale) ALONE IN MIXTURES	168 LBS. 3.9 LBS. 28 LBS. 0.6 LBS.	M-L P C															16,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL (Lolium temulentum) ALONE	40 LBS. 0.9 LBS.	M-L P C															227,000 SEED PER POUND. QUICK GROWER. VERY COMPETITIVE AND IS BEST TO BE USED IN MIXTURES.
MILLET, PEARL (Panicum glabrum) ALONE	50 LBS. 1.1 LBS.	M-L P C															88,000 SEED PER POUND. QUICK, DENSE COVER. MAY REACH 3 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
OATS (Avena sativa) ALONE IN MIXTURES	128 LBS. 2.9 LBS. 32 LBS. 0.7 LBS.	M-L P C															13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
SUDAN GRASS (Sorghum sudanense) ALONE	60 LBS. 1.4 LBS.	M-L P C															55,000 SEED PER POUND. GOOD GROWER ON DROUGHT SITES. RECOMMENDED FOR MIXTURES.
TRITICALE (X-Triticosecale) ALONE IN MIXTURES	144 LBS. 3.3 LBS. 24 LBS. 0.6 LBS.	M-L P C															USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT (Triticum aestivum) ALONE IN MIXTURES	180 LBS. 4.1 LBS. 30 LBS. 0.7 LBS.	M-L P C															15,000 SEED PER POUND. WINTERHARDY.

1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDING TOO HEAVILY.
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED.
4/ M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MURA'S
P REPRESENTS THE SOUTHERN Piedmont MURA
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MURA

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE

- TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES
- TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS

TEMPORARY METHODS:

MULCHES SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TD-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

VEGETATIVE COVER SEE STANDARD Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

SPRAY-ON ADHESIVES THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TD-TACKIFIERS AND BINDERS.

TILLAGE THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

IRRIGATION THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION CALCIUM CHLORIDE APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

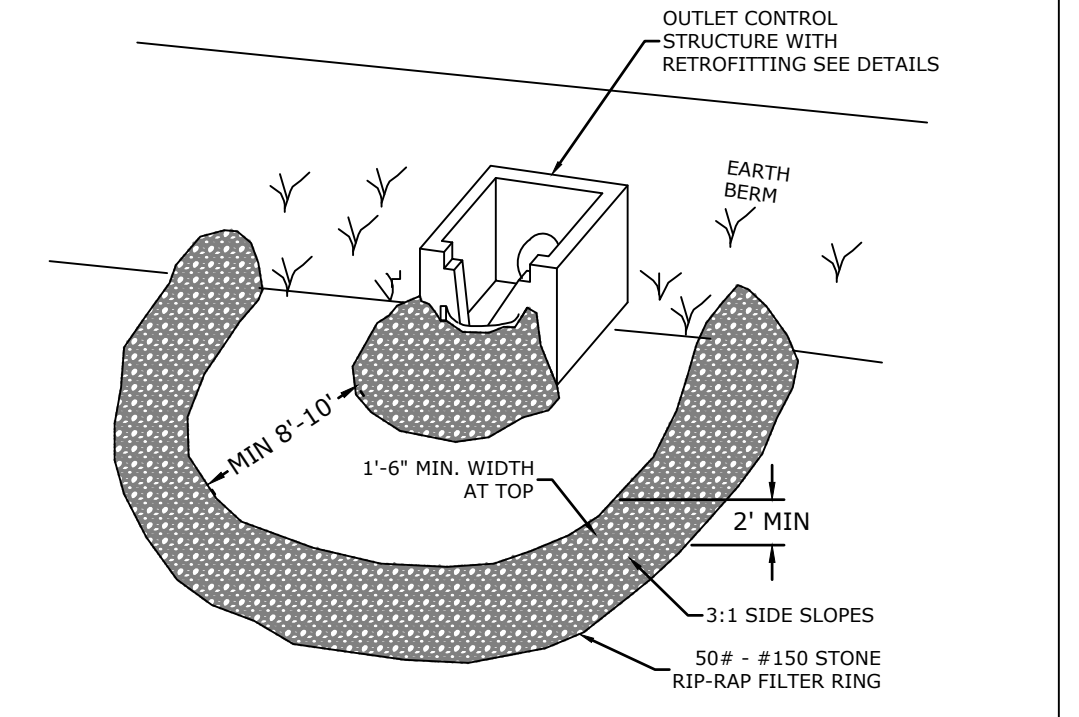
PERMANENT METHODS

PERMANENT VEGETATION SEE STANDARD Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD TD-TOPSOILING.

STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD Cr-CONSTRUCTION ROAD STABILIZATION.

Du DUST CONTROL ON DISTURBED AREAS
N.T.S.



DEFINITION:
A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.

PURPOSE:
THIS STRUCTURE REDUCES FLOW VELOCITIES, PREVENTING THE FAILURE OF OTHER SEDIMENT CONTROL DEVICES. IT ALSO PREVENTS SEDIMENT FROM LEAVING THE SITE OR ENTERING DRAINAGE SYSTEMS, PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

LOCATION:
THE FILTER RING SHALL SURROUND ALL SIDES OF THE STRUCTURE RECEIVING RUNOFF FROM DISTURBED AREAS. IT SHOULD BE PLACED A MINIMUM OF FOUR FEET FROM THE STRUCTURE. THE RING IS NOT INTENDED TO SUBSTANTIALLY IMPOUND WATER, CAUSING FLOODING OR DAMAGE TO ADJACENT AREAS. THE FILTER RING MAY ALSO BE PLACED BELOW STORM DRAINS DISCHARGING INTO DETENTION PONDS, CREATING A CENTRALIZED AREA, OR "FOREBAY", FOR SEDIMENT ACCUMULATION. IF UTILIZED ABOVE A RETROFIT STRUCTURE, IT SHOULD BE A MINIMUM OF 8 TO 10 FEET FROM THE RETROFIT.

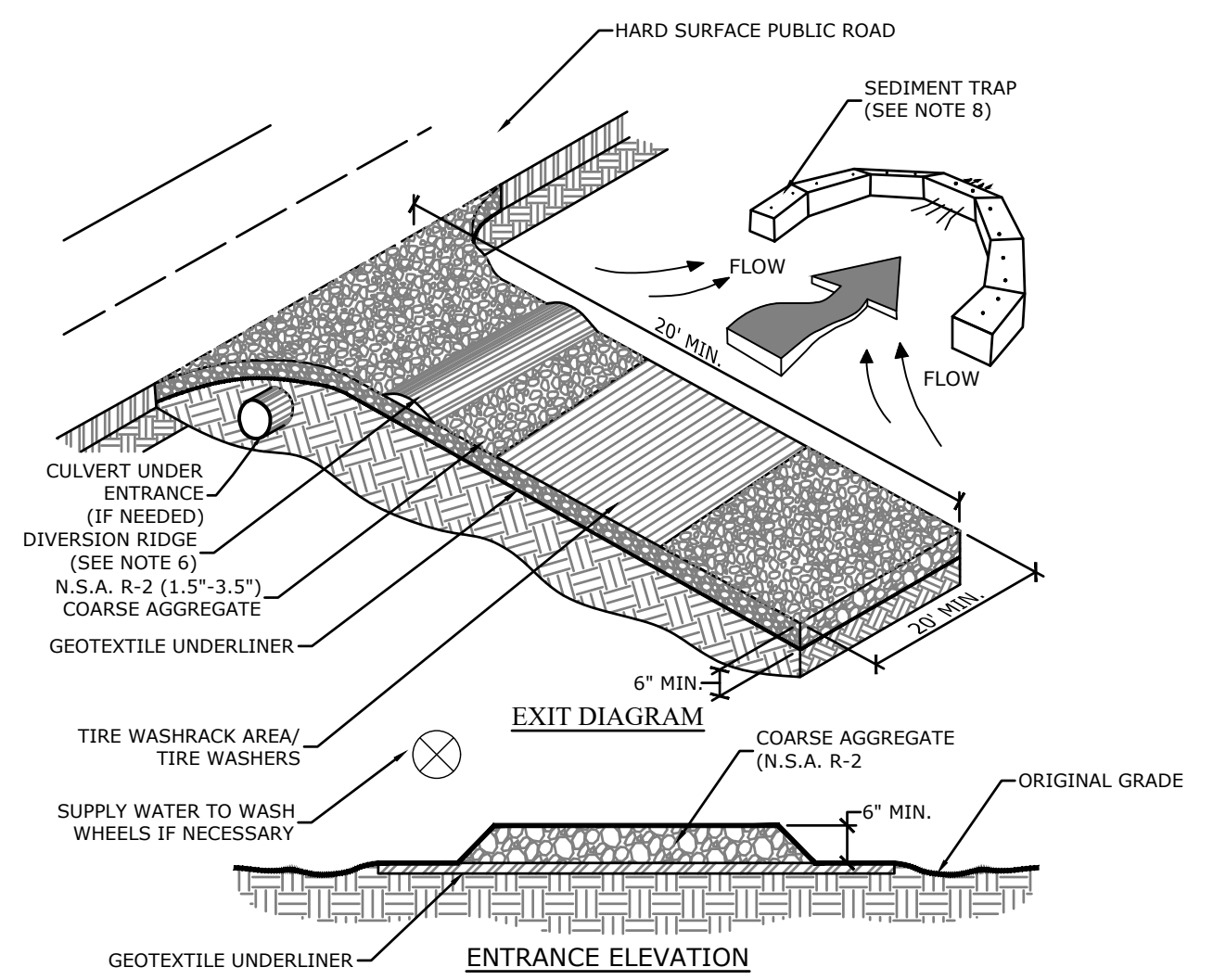
STONE SIZE:
WHEN UTILIZED AT INLETS WITH DIAMETERS LESS THAN 12 INCHES, THE FILTER RING SHALL BE CONSTRUCTED OF STONE NO SMALLER THAN 3-5 INCHES (15-30 LBS). WHEN UTILIZED AT PIPES WITH DIAMETERS GREATER THAN 12 INCHES, THE FILTER RING SHALL BE CONSTRUCTED OF STONE NO SMALLER THAN 10-15 INCHES (50-100 LBS).

HEIGHT:
THE FILTER RING SHALL BE CONSTRUCTED AT A HEIGHT NO LESS THAN TWO FEET FROM GRADE.

CONSTRUCTION SPECIFICATIONS:
MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL.

MAINTENANCE:
THE FILTER RING MUST BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-HALF FULL. STRUCTURES ARE TEMPORARY AND SHOULD BE REMOVED WHEN THE LAND-DISTURBING PROJECT HAS BEEN STABILIZED.

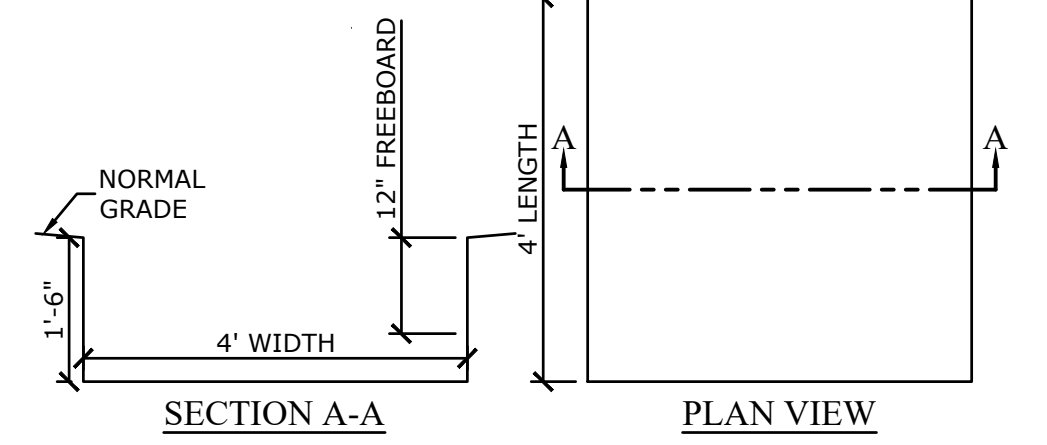
Fr STONE FILTER RING
N.T.S.



- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20".
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

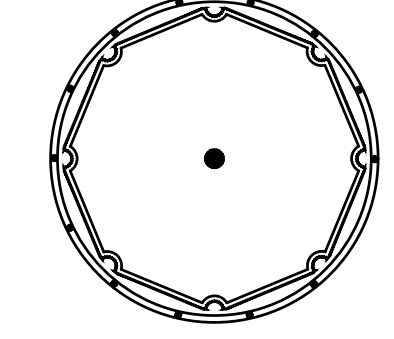
1 CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE

CONTRACTOR SHALL LINE WASHDOWN AREA WITH PLASTIC SHEETING OF AT LEAST MIN 10-MIL THICKNESS THAT HAS NO HOLES OR TEARS

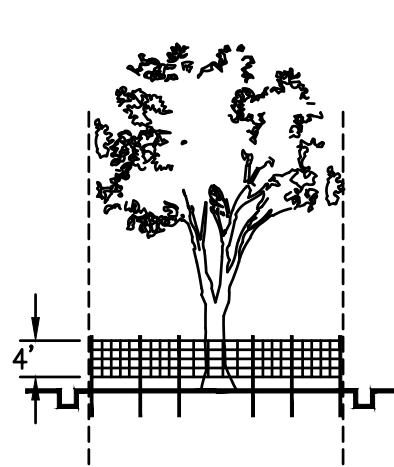


9 CONCRETE WASHDOWN
SCALE: NONE

PLAN



CROSS-SECTION



- NOTES:**
- USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 - SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 - MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 - DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 - FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

Tr TREE PROTECTION
N.T.S.

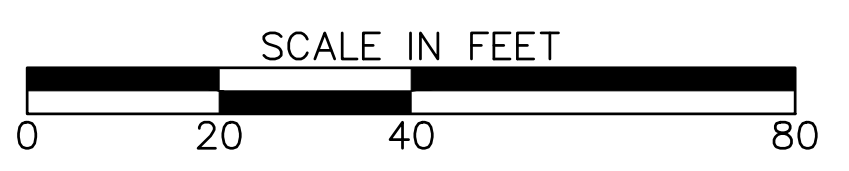
GSWCC
Luck Watford
Level II Certified Design Professional
Contract Number: 0000060876
Issue: 03/01/2020 Date: 03/01/2023

24 HOUR CONTACT
KEVIN BURKE
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REVISION DATES	

ESPC DETAILS
ATLANTA BELTLINE NORTHEAST TRAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

APPENDIX B

Appendix D to CAP Amendment #2, April 23, 2015





**APPENDIX D TO
CAP AMENDMENT #2**
Northeast Corridor Project Plan
Atlanta BeltLine Properties
Atlanta, Georgia

Submitted to:

Georgia Department of Natural Resources
Environmental Protection Division
Suite 1054, East Tower
2 Martin Luther King Jr. Drive, NE
Atlanta Georgia 30334

Prepared for:

Armstrong State University
11935 Abercorn St.
Savannah, Georgia 31419

Prepared by:

Amec Foster Wheeler Environment & Infrastructure, Inc.
2677 Buford Hwy.
Atlanta, Georgia 30324
(404) 873-4761

April 23, 2015

Project Nos. 6121-13-0278, 6121-13-0277 and 6121-13-0279

April 23, 2015



Ms. Beth Blalock
Georgia Department of Natural Resources
Environmental Protection Division
Suite 1054, East Tower
2 Martin Luther King Jr. Drive, NE
Atlanta, Georgia 30334

**Subject: Appendix D to CAP Amendment #2
Northeast Corridor Project Plan
Atlanta BeltLine Properties
Atlanta, Georgia
Amec Foster Wheeler Project Nos.
6121-13-0277, 6121-13-0278 and 6121-13-0279**

Dear Ms. Blalock:

On behalf of the Brownfield applicants, collectively or separately Atlanta BeltLine, Inc. (“ABI”) and Invest Atlanta (formerly Atlanta Development Authority “ADA”), Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler, successor to AMEC and MACTEC) respectfully submits this Northeast Trail Project Plan as Appendix D to the approved Amendment #2 of the Corrective Action Plan pursuant to Section 12-8-200 of the Brownfield Act. The purpose of this submittal is to provide EPD with soil and groundwater data for the Northeast Corridor section of the Atlanta BeltLine Corridor and to propose the corrective action approach.

On May 03, 2010, ABI and ADA submitted Amendment #1 to the Brownfield Corrective Action Plan (CAP) to consolidate separate CAPs into a single revised CAP under the name Atlanta BeltLine Properties. In addition, parcels were added to incorporate them as part of the Atlanta BeltLine Properties under the approved Brownfield CAP. On May 18, 2010, EPD provided a letter approving the requested Amendment and acknowledging that additional parcels will be incorporated into the Atlanta BeltLine Properties CAP as property acquisition and development progress.

On March 25, 2011, CAP Amendment #2 was submitted that established a procedure whereby EPD will review and approve a site-specific Appendix to the CAP for each segment of the BeltLine. On April 14, 2011, EPA approved CAP Amendment #2 which included Appendix B for the

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Eastside Trail Project (10th Street and Monroe Drive south to DeKalb Avenue). On April 17, 2013, an Appendix C for the Reynoldstown Trail (Wylie to Memorial Drive) was submitted to GA EPD. A Type 5 soil Risk Reduction Standard (RRS) was applied to the elevated arsenic detections along the Eastside Trail and the Reynoldstown Trail. As documented in the attached Appendix D, similar arsenic in soil conditions have been encountered along the Northeast Corridor (10th Street and Monroe Drive north to the Buford-Spring Connector). Therefore, the same corrective action approach is proposed herein.

The soil and groundwater testing activities were conducted in accordance with the procedures outlined in the Generic Quality Assurance Project Plan, and the Sampling and Analysis Plan (SAP) prepared by Amec Foster Wheeler for the Atlanta BeltLine Project, Northeast Corridor, dated August 2010.


Included in this document are a corridor development overview, tables and figures depicting laboratory analytical data obtained through both initial (2004-2006) and recent (2014) soil and groundwater testing along the Northeast Corridor, application of the prior Type 5 arsenic exposure assessment to this section of the BeltLine, justification for the Type 5 approach and planned corrective actions for the Northeast Corridor section of the Atlanta BeltLine Corridor.

Since plans for corrective action are proceeding at a rapid pace, we request EPD's comments in writing at your earliest convenience. Please contact Dustin J. Heizer or Chuck Ferry at 404-873-4761 with any questions you may have regarding this submittal.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.


Dustin J. Heizer, CHMM
Senior Scientist/Project Manager


Charles T. Ferry, P.E.
Senior Principal

with permission by: TL

Cc: Mr. Lee Harrop, Atlanta BeltLine, Inc.
Ms. Patrise Perkins-Hooker, Atlanta BeltLine, Inc.

Amec Foster Wheeler Environment & Infrastructure, Inc.

- Attachments: Appendix D – Northeast Corridor Project Plan
- D.1 – Northeast Corridor Development Overview and Environmental Characterization
 - D.2 – Data Tables
 - D.3 – Figures
 - D.4 – Type 5 Arsenic Exposure Assessment
 - D.5 – Type 5 RRS Justification for Arsenic
 - D.6 – Arsenic Soil to Groundwater Leaching
 - D.7 – Planned Corrective Actions for Northeast Corridor



APPENDIX D.1

NORTHEAST CORRIDOR DEVELOPMENT OVERVIEW AND ENVIRONMENTAL CHARACTERIZATION

The Northeast Corridor is a continuation of the Atlanta BeltLine Corridor north from the Eastside Trail Project that was recently constructed and opened. The Piedmont, Ansley South and Ansley North Parcels comprise the Northeast Corridor “subject site” for the purposes of this Corrective Action Plan (CAP) Appendix D. See the figures in Appendix D-3.

This section is approximately 9,500 feet in length, beginning at Monroe Drive and extending north of Piedmont Avenue to the Buford-Spring Connector. The corridor varies in width but is generally 200 feet along this section. The site covers approximately 36 acres of land. The corridor was previously used as a railroad right-of-way for over 100 years beginning in approximately 1871. The subject site is currently undeveloped with the exception of a railroad bed which runs the length of the site and several railroad trestles/underpasses located throughout the corridor that span roads or streams. The eastern edge of the corridor is used as a transmission line for Georgia Power. The railroad track was removed in 2010 from portions of this section between Tenth Street and up to Montgomery Ferry Drive. The tracks north of Montgomery Ferry Drive remain intact.

Invest Atlanta has ownership of the site with the Atlanta BeltLine, Inc. (ABI) as Invest Atlanta’s implementing agent. The first phase of development along the Northeast Corridor will be a continuation of the concrete multi-use trail from south of the 10th/Monroe intersection. The trail will accommodate non-motorized transportation modes such as walking, jogging, biking, roller skating and roller blading as well as wheelchairs and mobility aids for the disabled.

The Northeast Corridor trail is currently in the design phase. The trail will be designed to allow for a public transportation right-of-way within a ‘green’ setting. The trail will be constructed in such a manner as to preserve space for future transit within the corridor. As part of the Northeast Corridor, the preserved transit corridor will be planted with wildflower and native grass mixes to provide corridor visitors with a visual representation of the future limits of the transit corridor. In addition to establishing native groundcovers, trees will be planted as part of the project.

Amec Foster Wheeler Environment & Infrastructure, Inc.



The design will include consideration of public access points at various public rights-of-way. Connections made from private properties may be negotiated between ABI and the individual property owners.

Aside from the trail and access points, the only near-term amenity planned for this first phase of the project is signage as required for compliance with American Association of State Highway Transportation Officials (AASHTO) regulations as well as basic way-finding needs, benches (where the corridor permits) and lighting. ABI does not intend to provide recreational equipment (playgrounds, picnic tables) within the corridor. Rather, trail users will be encouraged to patronize the new and existing parks adjacent to the corridor.

ENVIRONMENTAL CHARACTERIZATION

Following in Appendix D.2 and Appendix D.3 are tables and figures containing the soil and groundwater analytical data for the Northeast Corridor obtained in two different timeframes, 2004-2006 and 2014. The findings are summarized in the following sections.

2004 – 2006 Soil and Groundwater Assessment

In 2004, Amec Foster Wheeler (operating as MACTEC at the time) conducted Phase I and Phase II Environmental Site Assessments (ESAs) of three parcels comprising the Northeast Corridor referred to as Ansley North Parcel, Ansley South Parcel, and Piedmont Parcel. The Phase I ESAs were performed for the parcels during November 2004. The Phase II ESAs followed in December 2004. Subsequent to the Phase II ESAs performed in 2004, additional site assessment activities were performed in 2006. Details of the ESAs for each parcel were presented in respective CAPs [and/or in Compliance Status Reports (CSRs) for properties within the corridor that were eventually conveyed to other parties] as submitted to the Environmental Protection Division (EPD) in 2004/2006. A summary of the site assessment activities between December 2004 and June 2006 are presented below.



- Ansley North Parcel: 2004 Phase II ESA - installed of four soil borings (TW-3, B-1, MW-1, and MW-2) and two shallow hand auger borings (SS-2 and SS-3). One soil sample from each boring was tested. Two of the soil test borings (TW-3 and MW-2) were converted to groundwater monitoring wells and an additional well was installed (MW-4). Soil samples were tested for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The shallow soil samples (SS-2 and SS-3) were tested for PAHs only. Groundwater samples were analyzed for VOCs and either PAHs, semi-volatile organic compounds (SVOCs), total and dissolved RCRA Metals and/or polychlorinated biphenyls (PCBs). In 2006, Ansley North Beltline, LLC decided to subdivide and sell a sub-parcel of the Ansley North Parcel to Ansley Golf Club. Prior to the conveyance, additional soil and groundwater testing was conducted on both the Sub-Parcel and the remainder of the Ansley North Parcel. The sampling scope within the current boundaries of the Ansley North Parcel consisted of five soil borings/monitoring wells (GW-4 through GW-8 and deep well DW-1). Soil samples were tested for VOCs, SVOCs and metals. The 2006 groundwater samples were analyzed for VOCs, SVOCs and total and dissolved metals.
- Ansley South Parcel: 2004 Phase II ESA - installed one soil boring (B-5) and one groundwater monitoring well (MW-6). Soil boring B-5 encountered auger refusal and was not sampled. A soil sample was collected from MW-6 and tested for the presence of VOCs and PAHs. A groundwater sample was collected from MW-6 and tested for VOCs and total and dissolved metals.
- Piedmont Parcel: 2004 Phase II ESA - installed six soil borings and converted them to groundwater monitoring wells (TW-38, TW-7 through TW-9, TW-12 and MW-10). Two soil borings were advanced (B-11 and B-39) but no groundwater or soil samples were collected. Soil samples were collected from all borings (TW-38, TW-7 through TW-9, TW-12 and MW-10) and tested for the presence of VOCs and PAHs. Groundwater samples were collected from the six wells and tested for VOCs. Groundwater samples were tested for other constituents as well, depending on the location of the well with respect to the various identified concerns. These included PAHs, PCBs, SVOCs and/or total and dissolved RCRA metals. Additional soil and groundwater sampling was conducted on the southern end of the subject site in August 2005 by Amec Foster Wheeler as part of a contemplated sale (which ultimately did not occur). A monitoring well (MW-1) was installed. No soil samples were collected for laboratory analysis; however, soil samples were field screened for the presence of VOCs using a photo ionizing detector (PID). A groundwater sample was collected and analyzed for VOCs.

2014 Confirmation Sampling

In 2014, as part of the EPA cleanup grant funded project for Atlanta BeltLine, Amec Foster Wheeler obtained soil and groundwater confirmation samples from selected locations throughout the corridor to evaluate the extent of areas that will require soil remediation and/or additional corrective action. The following presents a summary of the confirmation sampling performed in 2014:

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- Drilled 42 soil borings at spacings consistent with those approved in the 2010 CAP and SAP.
- Installed 8 groundwater monitoring wells at locations consistent with the criteria in the approved CAP.
- Ansley North Parcel: Installed a total of 4-direct push borings, 2 hand auger borings and 1 hollow-stem auger boring which was converted to a monitoring well. Submitted 9 soil samples (including 1 QC sample) to the laboratory for analysis and placed an additional 3 samples on hold. The soil samples collected from the Ansley North Parcel were analyzed for VOCs, SVOCs and RCRA metals. Received soil analytical results from the lab for 10 soil samples.
- Ansley South Parcel: Installed a total of 5-direct push borings and 1 hollow-stem auger boring which was converted to a monitoring well. Submitted 9 soil samples (including 2 QC samples) to the laboratory for analysis and placed an additional 3 samples on hold. The soil samples collected from the Ansley South Parcel were analyzed for VOCs, SVOCs, pesticides, PCBs, RCRA metals, cyanide, and phenolics. One of the 3 hold samples was analyzed for arsenic. Received soil analytical results from the lab for 11 soil samples.
- Piedmont Parcel: Installed a total of 13-direct push borings and 6 hollow-stem auger borings (5 of which were converted to monitoring wells). The soil samples collected from the Ansley North Parcel were analyzed for VOCs, SVOCs, and RCRA metals. Received soil analytical results from the lab for 28 soil samples (including 1 QC sample).
- Collected and analyzed groundwater samples from each well and tested for VOCs. Some samples were also analyzed for PAHs, pesticides, PCBs, total and dissolved RCRA metals, cyanide and/or phenolics, depending on the environmental concerns identified in the vicinity of the well.
 - Ansley North - 1 sample
 - Ansley South - 1 sample
 - Piedmont - 6 samples (includes 1 QC sample)

Soil Results 2004-2014

The following presents a summary of detected constituents in soil samples collected from locations pertinent to the corrective action from 2004 through 2014. Analytical data summary Tables D.2.1, D.2.3 and D.2.5 present the soil results (see Attachment D.2). The locations of identified concerns, along with the soil boring and monitoring well locations and laboratory test results for each parcel are shown in Figures D.3.2 (Ansley North), D.3.3 (Ansley South), D.3.4A and D.3.4B (Piedmont) (see Attachment D.3). Exceedences of detected constituents over both the residential and non-residential RRS have been assigned as an Area of Concern (AOC). Each of these AOCs is presented in Figures D.7.1 through D.7.9. Sample locations that resulted in excavation and removal prior to 2014 or were deemed as outside the currently defined boundaries of the Northeast Corridor are not presented.

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Ansley North Parcel:

- VOC constituents were detected in six of the soil samples analyzed from the Ansley North Parcel, including:
 - Boring GW-5 @ 0-1.5 feet (2006): Acetone.
 - Boring GW-5 @ 0-1.5 feet (2006): Acetone.
 - Boring GW-8 @ 0-1.5 feet (2006): Trichlorofluoromethane.
 - Boring GP279+43 @ 1-3 feet (2014): Methylene chloride.
 - The VOC constituents detected in the soil samples do not exceed the approved residential or non-residential RRS.
- SVOC constituents were detected at the following locations:
 - Boring SS-2 @ 6 inches (2004): Benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene and pyrene.
 - Boring SS-3 @ 6 inches (2004): Acenaphthylene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene and pyrene.
 - Boring GW-4 @ 0-1.5 feet (2006): Benzo(b)fluoranthene, fluoranthene, and pyrene.
 - Boring GW-7 @ 0-1.5 feet (2006): Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene.
 - Boring GP296+61 @ 1-2 feet (2014): Bis(2-ethylhexyl)phthalate.
 - The SVOC constituents detected in the soil samples do not exceed the approved residential or non-residential RRS.
- One or more metals including arsenic, barium, cadmium, chromium, lead, mercury, nickel and/or zinc were detected in each of the soil samples tested for metals. Arsenic concentrations exceeded both the residential and non-residential RRS, in two of the samples tested for metals from the Ansley North Parcel:
 - GP-276+40 (1-3 feet sample at 112 ppm) (2014) – **designated as AOC-NEC-1.**
 - GP272+29 (1–3 feet sample at 46.7 ppm) (2014) – **designated as AOC-NEC-2.**
 - Refer to Figure D.7.1.

Ansley South Parcel:

- VOC constituents were detected in two soil samples analyzed from the Ansley South Parcel, including:
 - Boring MW-268+04 @ 6–7.5 feet (2014): Tetrachloroethene.
 - Boring GP256+71 @ 1–3 feet (2014): Toluene and xylenes (mixture).
 - The constituents detected do not exceed the approved residential or non-residential RRS.



- SVOC constituents were detected at the following locations:
 - Boring MW-268+04 @ 0-1.5 feet in sample *duplicate* (2014): Fluoranthene and pyrene (these detections were not confirmed in the parent sample).
 - Boring MW-268+04 @ 6–7.5 feet (2014): Anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene.
 - Boring MW-6 @ 8.5-10 feet (2004): Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene.
- Benzo(a)pyrene exceeded both residential and nonresidential RRS in one soil sample MW268+04 (6-7.5 feet sample at 2.22 mg/kg) – **designated as AOC-NEC-3**.
 - Refer to Figure D.7.2.
- Pesticides 4,4-DDE, 4,4-DDT, alpha-Chlordane, chlordane-Technical, endrin aldehyde and gamma-chlordane were detected in one sample (MWMW-268+04 at 6–7.5 feet) of the nine samples tested for pesticides. The concentration detected does not exceed the residential RRS.
- PCBs (Aroclor-1260) were detected in one sample (MW-268+04 at 6-7.5') at 0.219 mg/kg of the nine samples tested for PCBs but were below the non-residential RRS.
- One or more metals including arsenic, barium, cadmium, chromium, lead, mercury, nickel and/or zinc were detected in each of the soil samples tested for metals. Arsenic concentrations exceeded both the residential and non-residential RRS, in four of the samples tested for metals from the Ansley South Parcel:
 - GP 258+69 (both 1-3 feet and the 8–10 feet sample at 96.7 ppm and 38.5 ppm, respectively) – **designated as AOC-NEC-4**.
 - Refer to Figure D.7.3.
- Cyanide was detected in one soil sample at 6-7.5 feet in boring MW-268+04 at 0.8 mg/kg. Phenolics were detected in six of the nine samples analyzed. Cyanide was not detected above the residential RRS. RRS have not been established for phenolics in soil.

Piedmont Parcel:

- One VOC constituent was detected in two of the soil samples collected and analyzed from one boring in the Piedmont Parcel:
 - Boring GP226+63 @ 1-3 feet and 4–6 feet: Toluene.
 - The constituents detected do not exceed the approved residential or non-residential RRS.
- SVOC constituents were detected at the following locations:
 - Boring TW-38 @ 2–3 feet (2004): Anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene.

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- Boring GP-252+57 @ 1 – 3 feet (2014): Fluoranthene and pyrene.
- Boring MW-249+40 @ 1–2.5 feet (2014): Anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene.
- Boring MW-217+73 @ 0–1.5 feet (2014): Benzo(b)fluoranthene, fluoranthene and pyrene.
- Boring GP-209+12 @ 2–4 feet (2014): Benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene chrysene, fluoranthene, and pyrene.
- The SVOC constituents detected do not exceed the approved residential or non-residential RRS.
- One or more metals including arsenic, barium, cadmium, chromium, lead, mercury, nickel and/or zinc were detected in each of the soil samples tested for metals. Arsenic concentrations exceeded both the residential and non-residential RRS, in twelve of the samples tested for metals from the Piedmont Parcel:
 - GP252+57 (1-3 feet and 6-8 feet samples at 372 ppm and 577 ppm, respectively) (2014) – **designated as AOC-NEC-5**,
 - MW-249+40 (1-2.5 feet sample at 61.9 ppm) (2014) – **designated as AOC-NEC-6**,
 - MW248+26 (3–4.5 feet sample at 69.7 ppm) (2014) – **designated as AOC-NEC-7**,
 - MW244+57 (0–1.5 feet sample at 107 ppm) (2014)– **designated as AOC-NEC-8**,
 - GP232+26 (2–4 feet sample at 493 ppm) (2014) – **designated as AOC-NEC-10**,
 - GP228+30 (4–6 feet and 10–12 feet at 517 ppm and 473 ppm, respectively) (2014) – **designated as AOC-NEC-11**,
 - GP226+63 (4–6 feet at 98.1 ppm) (2014) – **designated as AOC-NEC-12**,
 - GP224+88 (1–3 feet at 84.9 ppm) (2014) – **designated as AOC-NEC-13**,
 - GP223+10 (2–4 feet at 98.8 ppm) (2014) – **designated as AOC-NEC-14**,
 - GP220+73 (1–2 feet at 332 ppm) (2014) – **designated as AOC-NEC-15**,
 - MW217+73 (0–1.5 feet at 46.1 ppm) (2014) - **designated as AOC-NEC-16** and
 - GP209+12 (2–4 feet at 240 ppm) (2014) - **designated as AOC-NEC-17**.
 - Refer to Figures D.7.4 through D.7.9.
- Lead concentrations exceeded both the residential and non-residential RRS, in one of the samples tested for metals:
 - MW243+16 (2.5-4 feet sample at 1,340 ppm) (2014) - **designated as AOC-NEC-9**.
 - Refer to Figure D.7.5.



Groundwater Results 2004-2014

The following presents a summary of detected constituents in groundwater samples collected from locations pertinent to the corrective action from 2004 through 2014. Analytical data summary Tables D.2.2, D.2.4 and D.2.6 present the groundwater results (see Attachment D.2). The locations of identified concerns, along with the soil boring and monitoring well locations and laboratory test results for each parcel are shown in Figures D.3.2 (Ansley North), D.3.3 (Ansley South), D.3.4A and D.3.4B (Piedmont) (see Attachment D.3). Exceedences of detected constituents over the Type 1 RRS (equivalent to the drinking water standard) have been noted below. Groundwater locations that were removed as a result of excavation and/or remediation prior to 2014 or were deemed as outside the subject areas are not presented.

Ansley North Parcel:

- VOC constituents were detected in one groundwater sample collected from the Ansley North Parcel:
 - Deep well DW-1 (2006): Trichloroethene was detected at a concentration above the Type 1 RRS of 0.005 ppm at 0.039 ppm and chloroform was detected at 0.0082 ppm below the Type 1 RRS of 0.080 ppm.
- One SVOC constituent was initially detected in one groundwater sample:
 - Well MW-283+58 (2014): bis(2-ethylhexyl)phthalate was detected at a concentration of 0.0109 ppm above the Type 1 RRS of 0.006 ppm. The well was subsequently resampled and bis(2-ethylhexyl)phthalate was not detected. The initial detection was likely an artifact from the well casing or sampling equipment.
- Two metals were detected in the groundwater samples collected from the Ansley North Parcel: Barium and Chromium.
 - Total barium ranged from 0.303 ppm to 0.183 ppm in the eight samples collected between 2004 and 2006 below the Type 1 RRS of 2 ppm.
 - Chromium was additionally detected in GW-8 at 0.037 ppm (total) and 0.0246 ppm (dissolved), respectively (2006) below the Type 1 RRS of 0.100 ppm.
 - Metals were not detected in the one groundwater sample (MW-283+58) analyzed in 2014.
 - No metals exceeded the Type 1 RRS in groundwater.

Ansley South Parcel:

- VOCs were not detected in the groundwater samples collected from the Ansley South Parcel.
- SVOCs were not detected in the groundwater samples collected from the Ansley South Parcel.



- Pesticides were not detected in the one groundwater sample (MW-268+04) tested for those constituents.
- Barium was the only metal detected in the groundwater samples collected from the Ansley South Parcel.
 - Total and dissolved barium was present in each of the samples analyzed (MW-6 and MW-268+04) below the Type 1 RRS of 2 ppm.
 - No metals exceeded the Type 1 RRS in groundwater.

Piedmont Parcel:

- VOC constituents were detected in four groundwater samples (plus a duplicate sample) collected from the Piedmont Parcel:
 - Well TW-7 (2004): Tetrachloroethene was detected at a concentration of 0.0061 ppm above the Type 1 RRS of 0.005 ppm.
 - Well TW-12 (2004): Chloroform was detected at a concentration of 0.0081 ppm below the Type 1 RRS of 0.080 ppm.
 - Well MW-1 (2005): Four VOCs were detected above their Type 1 RRS: cis-1,2-dichloroethene (0.210 ppm above Type 1 RRS of 0.070 ppm), tetrachloroethene (0.520 ppm above the Type 1 RRS of 0.005 ppm), trichloroethene (0.380 ppm above Type 1 RRS of 0.005 ppm), and vinyl chloride (0.028 ppm above Type 1 RRS of 0.002 ppm).
 - Well MW-244+57 (2014): Chloroform was detected below the Type 1 RRS at a concentration of 0.0128 ppm in both the parent and its field duplicate sample.
 - No other VOC constituents were detected above laboratory reporting limits in the groundwater samples tested.
- SVOCs were not detected in the groundwater samples collected from the Piedmont Parcel.
- Barium was the only metal detected in the groundwater samples collected from the Piedmont Parcel.
 - Total and dissolved barium were detected in each of the six groundwater samples analyzed for metals. Total barium concentrations ranged from 0.0435 ppm to 0.118 ppm and dissolved barium ranged from 0.0374 ppm to 0.11 ppm in the groundwater samples collected between 2004 and 2014. Results were below the Type 1 RRS of 2 ppm.
 - No metals exceeded the Type 1 RRS in groundwater.



Attachment D.2 Data Tables

TABLE D.2.1
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP301+08 2-3	GP301+08 3-4	GP296+61 1-2	GP293+02 2-4	GP293+02 6-8	MW-283+58-0.5-2'
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	2/20/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<u>Volatile Organic Compounds (VOCs)</u>										
1,1,1-Trichloroethane	20	20	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,1-Dichloroethane	400	400	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,1-Dichloroethene	0.7	0.7	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,2-Dichloroethane	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
1,2-Dichloropropane	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
2-Butanone	200	200	--		0.0306 U	--	0.046 U	0.0455 U	--	0.0734 U
Acetone ³	--	--	--		--	--	--	--	--	--
Acrolein	0.062	0.066	--		0.00612 U	--	0.00921 U	0.0091 U	--	0.0147 U
Acrylonitrile	1.37	1.37	--		0.00612 U	--	0.00921 U	0.0091 U	--	0.0147 U
Benzene	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Bromodichloromethane	3.71	4.72	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Bromoform	8	8	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Bromomethane (Methyl bromide)	1	1	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Carbon Tetrachloride	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Chlorobenzene	10	10	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Chloroform	3.85	4.88	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Chloromethane	0.3	0.3	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Dibromochloromethane	0.475	8	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Ethylbenzene	70	70	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Methylene Chloride	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Styrene	14	14	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Tetrachloroethene	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Toluene	100	100	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
trans-1,2-Dichloroethene	10	10	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Trichloroethene	0.5	0.5	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Trichlorofluoromethane ³	--	--	--		--	--	--	--	--	--
Vinyl chloride (lifetime)	0.2	0.2	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
Xylenes, mixture	1000	1000	--		0.00306 U	--	0.0046 U	0.00455 U	--	0.00734 U
<u>Semi-Volatile Organic Compounds (SVOCs)</u>										
1,2,4-Trichlorobenzene	10.83	10.83	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
1,2-Dichlorobenzene	60	60	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
1,3-Dichlorobenzene	60	60	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
1,4-Dichlorobenzene	7.5	7.5	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2,4,6-Trichlorophenol	3	3	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2,4-Dichlorophenol	2	2	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2,4-Dimethylphenol	70	70	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2,4-Dinitrophenol	7	7	--		0.754 U	--	0.821 U	0.826 U	--	0.862 U
2,4-Dinitrotoluene	1	1	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2,6-Dinitrotoluene	1	1	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2-Chloronaphthalene	25	42.16	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2-Chlorophenol	4	4	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
2-Nitrophenol	1000	1000	--		0.754 U	--	0.821 U	0.826 U	--	0.862 U
3,3-Dichlorobenzidine	25	25	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
4,6-Dinitro-2-methylphenol	2	2	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
4-Bromophenyl phenyl ether	1000	1000	--		0.189 U	--	0.205 U	0.207 U	--	0.216 U
4-Chloro-3-methylphenol	13.2	13.2	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
4-Chlorophenyl phenyl ether	1000	1000	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
4-Nitrophenol	6	6	--		0.754 U	--	0.821 U	0.826 U	--	0.862 U
Acenaphthene	300	300	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Acenaphthylene	130	130	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Anthracene	500	1009	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Benzo(a)anthracene	5	5	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Benzo(a)pyrene	1.64	1.64	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Benzo(b)fluoranthene	5	5	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Benzo(ghi)perylene	500	500	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Benzo(k)fluoranthene	13.71	46.06	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U

**TABLE D.2.1
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP301+08 2-3	GP301+08 3-4	GP296+61 1-2	GP293+02 2-4	GP293+02 6-8	MW-283+58-0.5-2'
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	2/20/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzyl Butyl phthalate	50	50	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Bis(2-chloroethoxy)methane	1	1	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Bis(2-chloroethyl)ether	1	1	--		0.189 U	--	0.205 U	0.207 U	--	0.216 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.377 U	--	0.974	0.413 U	--	0.431 U
Chrysene	42.14	141.59	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Dibenzo(a,h)anthracene	2.05	5	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Diethyl phthalate	500	500	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Dimethyl phthalate	40000	40000	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Di-n-butyl phthalate	400	400	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Di-n-octyl phthalate	2800	2800	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Fluoranthene	500	500	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Fluorene	360	360	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Hexachlorobenzene	2.14	2.14	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Hexachlorobutadiene	17.5	17.5	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Hexachloroethane	9.99	9.99	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Isophorone	10	10	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Naphthalene	10.46	100	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Nitrobenzene	2	2	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Pentachlorophenol	3.3	3.3	--		0.754 U	--	0.821 U	0.826 U	--	0.862 U
Phenanthrene	110	110	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Phenol	400	400	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Pyrene	500	500	--		0.377 U	--	0.410 U	0.413 U	--	0.431 U
Metals										
Arsenic	20	38.12	63		29.6	5.15 U	22.7	6.14 U	--	5.99 U
Barium	1000	1000	--		32.6	--	124	121	--	139
Cadmium (Diet)	2	39	--		0.552 U	--	1.16	1.01	--	2.27
Chromium, Total	100	1200	--		5.52 U	--	13.7	11.6	--	53.3
Lead	75	400	--		26.8	--	25.6	15.4	--	24.7
Selenium	2	36	--		5.52 U ¹	--	6.15 U ¹	6.14 U ¹	--	5.99 U ¹
Silver	2	10	--		5.52 U ¹	--	6.15 U ¹	6.14 U ¹	--	5.99 U ¹
Mercury, Total										
Mercury (Inorganic Salts)	0.5	17	--		0.0537 U	--	0.0527 U	0.0549 U	--	0.0641 U
Percent Moisture (%)										
Percent Moisture	--	--	--		12.1	11.8	19.6	20.1	19.4	23.48

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

TABLE D.2.1
 DATA SUMMARY - SOIL SAMPLE RESULTS
 ANSLEY NORTH - ATLANTA BELTLINE
 ATLANTA, GEORGIA



PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	MW-283+58-14-15.5'	GP279+43 1-3	GP276+40 1-3	GP276+40 8-10	GP272+29 1-3	GP272+29 8-10	DW-1 10'	GW-4 0-1.5'
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	2/20/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/15/2006
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	20	20	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,1-Dichloroethane	400	400	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,1-Dichloroethene	0.7	0.7	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,2-Dichloroethane	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
1,2-Dichloropropane	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
2-Butanone	200	200	--		0.0627 U	0.0464 U	0.0519 U	--	0.0506 U	0.0444 U	0.065 U	0.098 U
Acetone ³	--	--	--		--	--	--	--	--	--	0.13 U	0.2 U
Acrolein	0.062	0.066	--		0.0125 U	0.00928 U	0.0104 U	--	0.0101 U	0.00889 U	--	--
Acrylonitrile	1.37	1.37	--		0.0125 U	0.00928 U	0.0104 U	--	0.0101 U	0.00889 U	--	--
Benzene	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Bromodichloromethane	3.71	4.72	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Bromoforn	8	8	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Bromomethane (Methyl bromide)	1	1	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Carbon Tetrachloride	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Chlorobenzene	10	10	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.013 U	0.02 U
Chloroform	3.85	4.88	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Chloromethane	0.3	0.3	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.013 U	0.02 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Dibromochloromethane	0.475	8	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Ethylbenzene	70	70	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Methylene Chloride	0.5	0.5	--		0.00627 U	0.00489	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Styrene	14	14	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Tetrachloroethene	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Toluene	100	100	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
trans-1,2-Dichloroethene	10	10	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Trichloroethene	0.5	0.5	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.0065 U	0.0098 U
Trichlorofluoromethane ³	--	--	--		--	--	--	--	--	--	0.0065 U	0.0098 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.013 U	0.02 U
Xylenes, mixture	1000	1000	--		0.00627 U	0.00464 U	0.00519 U	--	0.00506 U	0.00444 U	0.013 U	0.02 U
Semi-Volatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	10.83	10.83	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.0065 U ²	0.0098 U ²
1,2-Dichlorobenzene	60	60	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.0065 U ²	0.0098 U ²
1,3-Dichlorobenzene	60	60	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.0065 U ²	0.0098 U ²
1,4-Dichlorobenzene	7.5	7.5	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.0065 U ²	0.0098 U ²
2,4,6-Trichlorophenol	3	3	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2,4-Dichlorophenol	2	2	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2,4-Dimethylphenol	70	70	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2,4-Dinitrophenol	7	7	--		0.79 U	0.737 U	0.826 U	--	0.800 U	0.769 U	2.100 U	2.400 U
2,4-Dinitrotoluene	1	1	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2,6-Dinitrotoluene	1	1	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2-Chloronaphthalene	25	42.16	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2-Chlorophenol	4	4	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
2-Nitrophenol	1000	1000	--		0.79 U	0.737 U	0.826 U	--	0.800 U	0.769 U	0.410 U	0.460 U
3,3-Dichlorobenzidine	25	25	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.820 U	0.930 U
4,6-Dinitro-2-methylphenol	2	2	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	2.100 U	2.400 U
4-Bromophenyl phenyl ether	1000	1000	--		0.197 U	0.184 U	0.207 U	--	0.200 U	0.192 U	0.410 U	0.460 U
4-Chloro-3-methylphenol	13.2	13.2	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
4-Chlorophenyl phenyl ether	1000	1000	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
4-Nitrophenol	6	6	--		0.79 U	0.737 U	0.826 U	--	0.800 U	0.769 U	2.100 U	2.400 U
Acenaphthene	300	300	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Acenaphthylene	130	130	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Anthracene	500	1009	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Benzo(a)anthracene	5	5	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Benzo(a)pyrene	1.64	1.64	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Benzo(b)fluoranthene	5	5	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.600
Benzo(ghi)perylene	500	500	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Benzo(k)fluoranthene	13.71	46.06	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U

**TABLE D.2.1
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	MW-283+58-14-15.5'	GP279+43 1-3	GP276+40 1-3	GP276+40 8-10	GP272+29 1-3	GP272+29 8-10	DW-1 10'	GW-4 0-1.5'
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	2/20/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/4/2014	3/15/2006
				Sample Matrix: Units:	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg
Benzyl Butyl phthalate	50	50	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Bis(2-chloroethoxy)methane	1	1	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Bis(2-chloroethyl)ether	1	1	--		0.197 U	0.184 U	0.207 U	--	0.200 U	0.192 U	0.410 U	0.460 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Chrysene	42.14	141.59	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Dibenzo(a,h)anthracene	2.05	5	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Diethyl phthalate	500	500	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Dimethyl phthalate	40000	40000	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Di-n-butyl phthalate	400	400	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Di-n-octyl phthalate	2800	2800	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Fluoranthene	500	500	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.580
Fluorene	360	360	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Hexachlorobenzene	2.14	2.14	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Hexachlorobutadiene	17.5	17.5	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.820 U	0.920 U
Hexachloroethane	9.99	9.99	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Isophorone	10	10	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Naphthalene	10.46	100	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Nitrobenzene	2	2	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Pentachlorophenol	3.3	3.3	--		0.79 U	0.737 U	0.826 U	--	0.800 U	0.769 U	2.100 U	2.400 U
Phenanthrene	110	110	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Phenol	400	400	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.460 U
Pyrene	500	500	--		0.395 U	0.368 U	0.413 U	--	0.400 U	0.385 U	0.410 U	0.530
Metals												
Arsenic	20	38.12	63		5.19 U	5.37 U	112	6.2 U	46.7	5.74 U	3.59 U	34.7
Barium	1000	1000	--		58.8	144	121	--	85.6	71.1	160	125
Cadmium (Diet)	2	39	--		0.57	0.902	1.3	--	1.01	0.574 U	1.8 U	2.33 U¹
Chromium, Total	100	1200	--		25	17.7	21.4	--	15.8	5.74 U	5.09	18.8
Lead	75	400	--		7.36	5.99	30.3	--	15.1	7.25	13.1	60.6
Selenium	2	36	--		5.19 U ¹	5.37 U ¹	6.15 U ¹	--	5.86 U ¹	5.74 U ¹	3.59 U ¹	4.66 U ¹
Silver	2	10	--		5.19 U ¹	5.37 U ¹	6.15 U ¹	--	5.86 U ¹	5.74 U ¹	1.8 U	2.33 U ¹
Mercury, Total												
Mercury (Inorganic Salts)	0.5	17	--		0.0557 U	0.0542 U	0.0581 U	--	0.0586 U	0.0533 U	0.121 U	0.137 U
Percent Moisture (%)												
Percent Moisture	--	--	--		16.88	11.3	20.3	28.6	17.9	14.7	18.9	28.4

Notes:
 = Exceeds Residential RRS
 = Exceeds Non-Residential RRS
 = Exceeds Arsenic Soil Barrier Type V RRS
 = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLS greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

**TABLE D.2.1
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	GW-5 5'	GW-6 5'	GW-7 0-1.5'	GW-8 0-1.5'	SS-2 (6")	SS-3 (6")	MW-2/8.5-10	TW-3/2-3
	Selected Residential mg/kg	Selected Nonresidential mg/kg			3/16/2006 Soil mg/kg	3/14/2006 Soil mg/kg	3/13/2006 Soil mg/kg	3/16/2006 Soil mg/kg	12/15/2004 Soil mg/kg	12/15/2004 Soil mg/kg	12/8/2004 Soil mg/kg	12/6/2004 Soil mg/kg
<u>Volatile Organic Compounds (VOCs)</u>												
1,1,1-Trichloroethane	20	20	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,1,2-Trichloroethane	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,1-Dichloroethane	400	400	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,1-Dichloroethene	0.7	0.7	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,2-Dichloroethane	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
1,2-Dichloropropane	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
2-Butanone	200	200	--		0.077 U	0.077 U	0.063 U	0.059 U	--	--	0.01 U	0.011 U
Acetone ³	--	--	--		0.19	0.11 U	0.21	0.12 U	--	--	0.1 U	0.11 U
Acrolein	0.062	0.066	--		--	--	--	--	--	--	--	--
Acrylonitrile	1.37	1.37	--		--	--	--	--	--	--	--	--
Benzene	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Bromodichloromethane	3.71	4.72	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Bromoform	8	8	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Bromomethane (Methyl bromide)	1	1	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Carbon Tetrachloride	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Chlorobenzene	10	10	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.015 U	0.011 U	0.013 U	0.012 U	--	--	0.01 U	0.011 U
Chloroform	3.85	4.88	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Chloromethane	0.3	0.3	--		0.015 U	0.011 U	0.013 U	0.012 U	--	--	0.005 U	0.0054 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Dibromochloromethane	0.475	8	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Ethylbenzene	70	70	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Methylene Chloride	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Styrene	14	14	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Tetrachloroethene	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Toluene	100	100	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
trans-1,2-Dichloroethene	10	10	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Trichloroethene	0.5	0.5	--		0.0077 U	0.0054 U	0.0063 U	0.0059 U	--	--	0.005 U	0.0054 U
Trichlorofluoromethane ³	--	--	--		0.0077 U	0.0054 U	0.0063 U	0.087	--	--	--	--
Vinyl chloride (lifetime)	0.2	0.2	--		0.015 U	0.011 U	0.013 U	0.012 U	--	--	0.01 U	0.011 U
Xylenes, mixture	1000	1000	--		0.015 U	0.011 U	0.013 U	0.012 U	--	--	0.01 U	0.011 U
<u>Semi-Volatile Organic Compounds (SVOCs)</u>												
1,2,4-Trichlorobenzene	10.83	10.83	--		0.0077 U ²	0.0054 U ²	0.0063 U ²	0.0059 U ²	--	--	0.005 U ²	0.0054 U ²
1,2-Dichlorobenzene	60	60	--		0.0077 U ²	0.0054 U ²	0.0063 U ²	0.0059 U ²	--	--	0.005 U ²	0.0054 U ²
1,3-Dichlorobenzene	60	60	--		0.0077 U ²	0.0054 U ²	0.0063 U ²	0.0059 U ²	--	--	0.005 U ²	0.0054 U ²
1,4-Dichlorobenzene	7.5	7.5	--		0.0077 U ²	0.0054 U ²	0.0063 U ²	0.0059 U ²	--	--	0.005 U ²	0.0054 U ²
2,4,6-Trichlorophenol	3	3	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2,4-Dichlorophenol	2	2	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2,4-Dimethylphenol	70	70	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2,4-Dinitrophenol	7	7	--		1.700 U	2.100 U	1.700 U	8.50 U	--	--	--	--
2,4-Dinitrotoluene	1	1	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2,6-Dinitrotoluene	1	1	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2-Chloronaphthalene	25	42.16	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2-Chlorophenol	4	4	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
2-Nitrophenol	1000	1000	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
3,3-Dichlorobenzidine	25	25	--		0.670 U	0.820 U	0.670 U	3.30 U	--	--	--	--
4,6-Dinitro-2-methylphenol	2	2	--		1.700 U	2.100 U	1.700 U	8.50 U	--	--	--	--
4-Bromophenyl phenyl ether	1000	1000	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
4-Chloro-3-methylphenol	13.2	13.2	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
4-Chlorophenyl phenyl ether	1000	1000	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
4-Nitrophenol	6	6	--		1.700 U	2.100 U	1.700 U	8.50 U	--	--	--	--
Acenaphthene	300	300	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Acenaphthylene	130	130	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.430	0.420 U	0.400 U
Anthracene	500	1009	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.610	0.420 U	0.400 U
Benzo(a)anthracene	5	5	--		0.330 U	0.400 U	0.830	1.60 U	0.350 U	0.600	0.420 U	0.400 U
Benzo(a)pyrene	1.64	1.64	--		0.330 U	0.400 U	0.910	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Benzo(b)fluoranthene	5	5	--		0.330 U	0.400 U	1.10	1.60 U	0.710	1.20	0.420 U	0.400 U
Benzo(ghi)perylene	500	500	--		0.330 U	0.400 U	0.730	1.60 U	0.430	1.20	0.420 U	0.400 U
Benzo(k)fluoranthene	13.71	46.06	--		0.330 U	0.400 U	0.460	1.60 U	0.650	0.980	0.420 U	0.400 U

TABLE D.2.1
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	GW-5 5'	GW-6 5'	GW-7 0-1.5'	GW-8 0-1.5'	SS-2 (6")	SS-3 (6")	MW-2/8.5-10	TW-3/2-3
	Selected Residential mg/kg	Selected Nonresidential mg/kg			3/16/2006	3/14/2006	3/13/2006	3/16/2006	12/15/2004	12/15/2004	12/8/2004	12/6/2004
Benzyl Butyl phthalate	50	50	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Bis(2-chloroethoxy)methane	1	1	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Bis(2-chloroethyl)ether	1	1	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Bis(2-ethylhexyl)phthalate	50	50	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Chrysene	42.14	141.59	--		0.330 U	0.400 U	0.900	1.60 U	0.650	0.820	0.420 U	0.400 U
Dibenzo(a,h)anthracene	2.05	5	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Diethyl phthalate	500	500	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Dimethyl phthalate	40000	40000	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Di-n-butyl phthalate	400	400	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Di-n-octyl phthalate	2800	2800	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Fluoranthene	500	500	--		0.330 U	0.400 U	1.70	1.60 U	0.850	0.500	0.420 U	0.400 U
Fluorene	360	360	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Hexachlorobenzene	2.14	2.14	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Hexachlorobutadiene	17.5	17.5	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Hexachlorocyclopentadiene	15.2	15.2	--		0.830 U	0.820 U	0.830 U	3.30 U	--	--	--	--
Hexachloroethane	9.99	9.99	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.330 U	0.400 U	0.620	1.60 U	0.390	1.20	0.420 U	0.400 U
Isophorone	10	10	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Naphthalene	10.46	100	--		0.330 U	0.400 U	0.330 U	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Nitrobenzene	2	2	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
N-Nitrosodiphenylamine	6.46	6.46	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Pentachlorophenol	3.3	3.3	--		1.700 U	2.100 U	1.700 U	8.50 U¹	--	--	--	--
Phenanthrene	110	110	--		0.330 U	0.400 U	1.00	1.60 U	0.350 U	0.380 U	0.420 U	0.400 U
Phenol	400	400	--		0.330 U	0.400 U	0.330 U	1.60 U	--	--	--	--
Pyrene	500	500	--		0.330 U	0.400 U	1.30	1.60 U	0.900	0.760	0.420 U	0.400 U
Metals												
Arsenic	20	38.12	63		4.66 U	5.3 U	3.6 U	4.67 U	--	--	--	--
Barium	1000	1000	--		55.6	93.5	100	70.3	--	--	--	--
Cadmium (Diet)	2	39	--		2.33 U¹	2.65 U¹	1.8 U	2.33 U¹	--	--	--	--
Chromium, Total	100	1200	--		14.4	11.5	16	42.7	--	--	--	--
Lead	75	400	--		13.9	5.3 U	54	61.6	--	--	--	--
Selenium	2	36	--		4.66 U ¹	5.3 U ¹	3.6 U ¹	4.67 U ¹	--	--	--	--
Silver	2	10	--		2.33 U ¹	2.65 U ¹	1.8 U ¹	2.33 U ¹	--	--	--	--
Mercury, Total												
Mercury (Inorganic Salts)	0.5	17	--		0.0994 U	0.121 U	0.0998 U	0.098 U	--	--	--	--
Percent Moisture (%)												
Percent Moisture	--	--	--		--	18.2	--	--	6.87	14.2	20.9	--

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

Prepared by/Date: JAH 04-03-15

Checked by/Date: DWK 04-03-15

TABLE D.2.2
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID: Sample Date: Sample Matrix: Units:	MW 283+58 2/28/2014 Groundwater mg/L	MW 283+58 4/2/2014 Groundwater mg/L	TW-3 12/7/2004 Groundwater mg/L	MW-2 12/13/2004 Groundwater mg/L	MW-4 12/13/2004 Groundwater mg/L	GW-4 3/20/2006 Groundwater mg/L	GW-5 3/20/2006 Groundwater mg/L	GW-6 3/20/2006 Groundwater mg/L	GW-7 3/20/2006 Groundwater mg/L	GW-8 3/21/2006 Groundwater mg/L	DW-1 3/21/2006 Groundwater mg/L
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	0.200		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.001		0.001 U	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
1,1,2-Trichloroethane	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	4.0		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.007		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone	2.0		0.002 U	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acrolein	0.700		0.02 U	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	0.002		0.002 U	--	--	--	--	--	--	--	--	--	--
Benzene	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	0.08		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	0.08		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl bromide)	0.01		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.10		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane (Ethyl chloride)	0.001		0.001 U	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
Chloroform	0.08		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0082
Chloromethane	0.003		0.001 U	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
cis-1,3-Dichloropropene	0.002		0.001 U	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
Dibromochloromethane	0.08		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.70		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene Chloride	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	0.10		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.039
Toluene	1.0		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.10		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.002		0.001 U	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
Trichloroethene	0.005		0.001 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl chloride (liftime)	0.002		0.001 U	--	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Xylenes, mixture	10		0.001 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Semi-Volatile Organic Compounds (SVOCs)													
1,2,4-Trichlorobenzene	0.07		0.01 U	0.0101 U	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,2-Dichlorobenzene	0.60		0.01 U	0.0101 U	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,3-Dichlorobenzene	0.60		0.01 U	0.0101 U	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,4-Dichlorobenzene	0.075		0.01 U	0.0101 U	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
2,4,6-Trichlorophenol	0.03		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,4-Dichlorophenol	0.02		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,4-Dimethylphenol	0.70		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,4-Dinitrophenol	0.07		0.01 U	0.0101 R	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2,4-Dinitrotoluene	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,6-Dinitrotoluene	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Chloronaphthalene	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Chlorophenol	0.04		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Nitrophenol	0.02		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
3,3-Dichlorobenzidine	0.02		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4,6-Dinitro-2-methylphenol	0.02		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Bromophenyl phenyl ether	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Chloro-3-methylphenol	0.01		0.01 U	0.0101 R	--	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹
4-Chlorophenyl phenyl ether	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Nitrophenol	0.06		0.01 U	0.0101 R	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Butyl benzyl phthalate	0.10		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bis(2-chloroethoxy)methane	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bis(2-chloroethyl)ether	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bis(2-chloroisopropyl)ether	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bis(2-ethylhexyl)phthalate	0.006		0.0109	0.0101 U ¹	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
Diethyl phthalate	5.0		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dimethyl phthalate	400		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Di-n-butyl phthalate	4.0		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Di-n-octyl phthalate	0.7		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachlorobenzene	0.001		0.01 U ¹	0.0101 U ¹	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
Hexachlorobutadiene	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachlorocyclopentadiene	0.05		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachloroethane	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Isophorone	0.10		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nitrobenzene	0.02		0.01 U	0.0101 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
N-Nitrosodi-n-propylamine	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
N-Nitrosodiphenylamine	0.01		0.01 U	0.0101 U ¹	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pentachlorophenol	0.001		0.01 U ¹	0.0101 R	--	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹	0.025 U ¹
Phenol	4.0		0.01 U	0.0101 R	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

TABLE D.2.2
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY NORTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	MW 283+58	MW 283+58	TW-3	MW-2	MW-4	GW-4	GW-5	GW-6	GW-7	GW-8	DW-1									
		Sample Date:	2/28/2014	4/22/2014	12/7/2004	12/13/2004	12/13/2004	3/20/2006	3/20/2006	3/20/2006	3/20/2006	3/21/2006	3/21/2006									
		Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater									
		Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L									
Polycyclic Aromatic Hydrocarbons (PAHs)																						
1-Methynaphthalene	0.01	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
2-Methynaphthalene	0.01	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Acenaphthene	2.0	--	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Acenaphthylene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Anthracene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Benzo(a)anthracene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Benzo(a)pyrene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Benzo(b)fluoranthene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Benzo(ghi)perylene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Benzo(k)fluoranthene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Chrysene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Dibenzo(a,h)anthracene	0.0003	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Fluoranthene	1.0	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Fluorene	1.0	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Indeno(1,2,3-cd)pyrene	0.0004	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Naphthalene	0.02	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Phenanthrene	0.0002	--	0.0001 U	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹									
Pyrene	1.0	--	0.0001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U									
Metals																						
Arsenic	0.01		Total 0.01 U	Dissolved 0.01 U	Total --	Dissolved --	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1	Total 0.05 U1	Dissolved 0.05 U1		
Barium	2.0		0.05 U	0.05 U	--	--	0.183	0.136	0.0303	0.0297	0.052	0.0415	0.0795	0.0619	0.151	0.113	0.0272	0.02 U	0.0844	0.0662	0.0625	0.0361
Cadmium (Water)	0.005		0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, Total	0.10		0.05 U	0.05 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0370	0.0246	0.01 U	0.01 U
Chromium III (Insoluble Salts)	0.10		0.05 U	0.05 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0370	0.0246	0.01 U	0.01 U
Chromium VI (Particulates)	0.002		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015		0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel	0.10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.05		0.01 U	0.01 U	--	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0200 U	0.02 U	0.02 U	0.02 U	0.02 U
Silver	0.10		0.05 U	0.05 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury, Total																						
Mercury (Inorganic Salts)	0.002		Total 0.002 U	Dissolved 0.002 U	Total --	Dissolved --	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U	Total 0.0002 U	Dissolved 0.0002 U
Polychlorinated Biphenyls (PCBs)																						
Aroclor-1016	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1221	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1232	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1242	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1248	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1254	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									
Aroclor-1260	0.001		--	--	--	--	--	0.001 U	--	--	--	--	--									

Notes:
 = Exceeds Non-Residential RRS
 = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.
¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.
² = These analytes were analyzed by Volatile Method SW8260B.
Bold = Constituent has been detected at or above the reporting limit.
 -- = Not Analyzed
 J = Value listed is estimated based on associated QC data
 R = Data is unusable based on associated QC data
 U = Constituent was not detected at the reporting limit
 MDL = Method Detection Limit
 mg/L = milligrams per liter
 RL = Reporting Limit
 RRS = Risk Reduction Standard

Prepared by/Date: JAH 04/21/15
 Checked by/Date: DWK 04/21/15

TABLE D.2.3
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	MW-268+04 0-1.5	DUP-1(MW-268+04 0-1.5)	MW-268+04 6-7.5	GP266+15 2-4	GP266+15 5-6	GP264+28 1-3	GP264+28 8-10	GP264+28 20-22
	Selected Residential mg/kg	Selected Nonresidential mg/kg			2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	20	20	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,1-Dichloroethane	400	400	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,1-Dichloroethene	0.7	0.7	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,2-Dichloroethane	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
1,2-Dichloropropane	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
2-Butanone	200	200	--		0.0377 U	0.0648 U	0.0698 U	0.0695 U	--	0.0553 U	0.0501 U	0.0535 U
Acrolein	0.062	0.066	--		0.00753 U	0.013 U	0.014 U	0.0139 U	--	0.0111 U	0.01 U	0.0107 U
Acrylonitrile	1.37	1.37	--		0.00753 U	0.013 U	0.014 U	0.0139 U	--	0.0111 U	0.01 U	0.0107 U
Benzene	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Bromodichloromethane	3.71	4.72	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Bromoform	8	8	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Bromomethane (Methyl bromide)	1	1	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Carbon Tetrachloride	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Chlorobenzene	10	10	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Chloroform	3.85	4.88	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Chloromethane	0.3	0.3	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Dibromochloromethane	0.475	8	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Ethylbenzene	70	70	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Methylene Chloride	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Styrene	14	14	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Tetrachloroethene	0.5	0.5	--		0.00377 U	0.00648 U	0.01	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Toluene	100	100	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
trans-1,2-Dichloroethene	10	10	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Trichloroethene	0.5	0.5	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Xylenes, mixture	1000	1000	--		0.00377 U	0.00648 U	0.00698 U	0.00695 U	--	0.00553 U	0.00501 U	0.00535 U
Semi-Volatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	10.83	10.83	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
1,2-Dichlorobenzene	60	60	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
1,3-Dichlorobenzene	60	60	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
1,4-Dichlorobenzene	7.5	7.5	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2,4,6-Trichlorophenol	3	3	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2,4-Dichlorophenol	2	2	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2,4-Dimethylphenol	70	70	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2,4-Dinitrophenol	7	7	--		0.782 U	0.765 UJ	0.820 U	0.807 U	--	0.829 U	0.798 U	--
2,4-Dinitrotoluene	1	1	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2,6-Dinitrotoluene	1	1	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2-Chloronaphthalene	25	42.16	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2-Chlorophenol	4	4	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
2-Methylnaphthalene ³	--	--	--		--	--	--	--	--	--	--	--
2-Nitrophenol	1000	1000	--		0.782 U	0.765 UJ	0.820 U	0.807 U	--	0.829 U	0.798 U	--
3,3-Dichlorobenzidine	25	25	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
4,6-Dinitro-2-methylphenol	2	2	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
4-Bromophenyl phenyl ether	1000	1000	--		0.196 U	0.191 UJ	0.205 U	0.202 U	--	0.207 U	0.199 U	--
4-Chloro-3-methylphenol	13.2	13.2	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
4-Chlorophenyl phenyl ether	1000	1000	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
4-Nitrophenol	6	6	--		0.782 U	0.765 UJ	0.820 U	0.807 U	--	0.829 U	0.798 U	--
Acenaphthene	300	300	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Acenaphthylene	130	130	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Anthracene	500	1009	--		0.391 U	0.382 UJ	0.782	0.403 U	--	0.415 U	0.399 U	--
Benzo(a)anthracene	5	5	--		0.391 U	0.382 UJ	2.56	0.403 U	--	0.415 U	0.399 U	--
Benzo(a)pyrene	1.64	1.64	--		0.391 U	0.382 UJ	2.22	0.403 U	--	0.415 U	0.399 U	--
Benzo(b)fluoranthene	5	5	--		0.391 U	0.382 UJ	3.12	0.403 U	--	0.415 U	0.399 U	--
Benzo(ghi)perylene	500	500	--		0.391 U	0.382 UJ	1.51	0.403 U	--	0.415 U	0.399 U	--
Benzo(k)fluoranthene	13.71	46.06	--		0.391 U	0.382 UJ	1.03	0.403 U	--	0.415 U	0.399 U	--

TABLE D.2.3
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	MW-268+04 0-1.5	DUP-1(MW-268+04 0-1.5)	MW-268+04 6-7.5	GP266+15 2-4	GP266+15 5-6	GP264+28 1-3	GP264+28 8-10	GP264+28 20-22
	Selected Residential mg/kg	Selected Nonresidential mg/kg			2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg
Benzyl Butyl phthalate	50	50	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Bis(2-chloroethoxy)methane	1	1	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Bis(2-chloroethyl)ether	1	1	--		0.196 U	0.191 UJ	0.205 U	0.202 U	--	0.207 U	0.199 U	--
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Bis(2-ethylhexyl)phthalate	50	50	--		0.391 U	0.382 UJ	0.491	0.403 U	--	0.415 U	0.399 U	--
Chrysene	42.14	141.59	--		0.391 U	0.382 UJ	2.41	0.403 U	--	0.415 U	0.399 U	--
Dibenzo(a,h)anthracene	2.05	5	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Diethyl phthalate	500	500	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Dimethyl phthalate	40000	40000	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Di-n-butyl phthalate	400	400	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Di-n-octyl phthalate	2800	2800	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Fluoranthene	500	500	--		0.391 U	0.505 J	5.99	0.403 U	--	0.415 U	0.399 U	--
Fluorene	360	360	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Hexachlorobenzene	2.14	2.14	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Hexachlorobutadiene	17.5	17.5	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Hexachlorocyclopentadiene	15.2	15.2	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Hexachloroethane	9.99	9.99	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.391 U	0.382 UJ	1.24	0.403 U	--	0.415 U	0.399 U	--
Isophorone	10	10	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Naphthalene	10.46	100	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Nitrobenzene	2	2	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
N-Nitrosodiphenylamine	6.46	6.46	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Pentachlorophenol	3.3	3.3	--		0.782 U	0.765 UJ	0.820 U	0.807 U	--	0.829 U	0.798 U	--
Phenanthrene	110	110	--		0.391 U	0.382 UJ	3.67	0.403 U	--	0.415 U	0.399 U	--
Phenol	400	400	--		0.391 U	0.382 UJ	0.410 U	0.403 U	--	0.415 U	0.399 U	--
Pyrene	500	500	--		0.391 U	0.459 J	4.55	0.403 U	--	0.415 U	0.399 U	--
Metals												
Arsenic	20	38.12	63		5.61 U	5.7 U	29.6	5.94 U	--	6.15 U	5.69 U	--
Barium	1000	1000	--		118	123	258	74.9	--	81.3	97	--
Cadmium (Diet)	2	39	--		0.964	1.09	3.03	0.594 U	--	1.66	1.12	--
Chromium, Total	100	1200	--		17	19.4	37	5.94 U	--	39.9	42.2	--
Lead	75	400	--		35.3	31.6	357	13.2	--	25.2	14.5	--
Selenium	2	36	--		5.61 U ¹	5.7 U ¹	6.14 U ¹	5.94 U ¹	--	6.15 U ¹	5.69 U ¹	--
Silver	2	10	--		5.61 U ¹	5.7 U ¹	6.14 U ¹	5.94 U ¹	--	6.15 U ¹	5.69 U ¹	--
Mercury, Total												
Mercury (Inorganic Salts)	0.5	17	--		0.122	0.095	0.976	0.0561 U	--	0.0531 U	0.0575 U	--
Cyanide, Total												
Cyanide (CN-)	20	20.64	--		0.135 UL	0.135 U	0.8	0.137 U	--	0.15 U	--	--
Phenolics												
Phenolics	--	--	--		2.14	0.815	10.6	0.364 U	--	0.376 U	--	--
Pesticides												
4,4-DDD	0.835	2.80	--		0.00395 U	0.00327 U	0.00412 U	0.000807 U	--	0.000836 U	--	--
4,4-DDE	0.66	1.98	--		0.00395 U	0.00327 U	0.0159	0.000807 U	--	0.000836 U	--	--
4,4-DDT	0.845	2.84	--		0.00395 U	0.00327 U	0.0198	0.000807 U	--	0.000836 U	--	--
Aldrin	0.66	0.66	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Alpha-BHC	0.66	0.66	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Alpha-Chlordane	9.2	9.2	--		0.00197 U	0.00163 U	0.00767	0.000807 U	--	0.000836 U	--	--
Beta-BHC	0.66	0.66	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Chlordane-Technical	9.2	9.2	--		0.0197 U	0.0163 U	0.0483	0.0202 U	--	0.0209 U	--	--
Delta-BHC	8.30	25	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Dieldrin	0.66	0.66	--		0.00395 U	0.00327 U	0.00412 U	0.000807 U	--	0.000836 U	--	--
Endosulfan I	10	10	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Endosulfan II	10	10	--		0.00395 U	0.00327 U	0.00412 U	0.000807 U	--	0.000836 U	--	--

TABLE D.2.3
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	MW-268+04 0-1.5	DUP-1(MW-268+04 0-1.5)	MW-268+04 6-7.5	GP266+15 2-4	GP266+15 5-6	GP264+28 1-3	GP264+28 8-10	GP264+28 20-22
	Selected Residential mg/kg	Selected Nonresidential mg/kg			2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	2/20/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg	3/4/2014 Soil mg/kg
Endosulfan Sulfate	1.65	8.41	--		0.00395 U	0.00327 U	0.00412 U	0.000807 U	--	0.000836 U	--	--
Endrin	10	10	--		0.00395 U	0.00327 U	0.00412 U	0.000807 U	--	0.000836 U	--	--
Endrin Aldehyde	10	10	--		0.00395 U	0.00327 U	0.0104	0.000807 U	--	0.000836 U	--	--
Gamma-BHC (Lindane)	0.66	0.66	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Gamma-Chlordane	9.2	9.2	--		0.00197 U	0.00163 U	0.00607	0.000807 U	--	0.000836 U	--	--
Heptachlor	0.66	0.66	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Heptachlor Epoxide	1.64	1.65	--		0.00197 U	0.00163 U	0.00206 U	0.000807 U	--	0.000836 U	--	--
Toxaphene	10.88	10.88	--		0.079 U	0.0654 U	0.0824 U	0.0202 U	--	0.0209 U	--	--
Polychlorinated Biphenyls (PCBs)												
Aroclor-1016	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1221	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1232	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1242	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1248	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1254	1.55	1.55	--		0.0395 U	0.0327 U	0.0412 U	0.0202 U	--	0.0209 U	--	--
Aroclor-1260	1.55	1.55	--		0.0395 U	0.0327 U	0.219	0.0202 U	--	0.0209 U	--	--
Percent Moisture (%)												
Percent Moisture	--	--	--		15.9	13.1	20.2	17.5	13.8	20.3	17.9	21.6

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UL = Constituent is not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

TABLE D.2.3
 DATA SUMMARY - SOIL SAMPLE RESULTS
 ANSLEY SOUTH - ATLANTA BELTLINE
 ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	GP260+49 4-6	DUP-1(GP260+49 4-6)	GP258+69 1-3	GP258+69 8-10	GP256+71 1-3	MW-6(8.5-10)
	Selected Residential	Selected Nonresidential			3/4/2014	3/4/2014	3/5/2014	3/5/2014	3/5/2014	12/8/2004
	mg/kg	mg/kg			Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	20	20	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,1-Dichloroethane	400	400	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,1-Dichloroethene	0.7	0.7	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,2-Dichloroethane	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
1,2-Dichloropropane	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
2-Butanone	200	200	--		0.0482 U	0.0559 U	0.0523 U	--	0.0582 U	0.013 U
Acrolein	0.062	0.066	--		0.00964 U	0.0112 U	0.0105 U	--	0.0116 U	--
Acrylonitrile	1.37	1.37	--		0.00964 U	0.0112 U	0.0105 U	--	0.0116 U	--
Benzene	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Bromodichloromethane	3.71	4.72	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Bromoform	8	8	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Bromomethane (Methyl bromide)	1	1	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Carbon Tetrachloride	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Chlorobenzene	10	10	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.013 U
Chloroform	3.85	4.88	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Chloromethane	0.3	0.3	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Dibromochloromethane	0.475	8	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Ethylbenzene	70	70	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Methylene Chloride	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Styrene	14	14	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Tetrachloroethene	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Toluene	100	100	--		0.00482 U	0.00559 U	0.00523 U	--	0.00984	0.0066 U
trans-1,2-Dichloroethene	10	10	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Trichloroethene	0.5	0.5	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.0066 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00482 U	0.00559 U	0.00523 U	--	0.00582 U	0.013 U
Xylenes, mixture	1000	1000	--		0.00482 U	0.00559 U	0.00523 U	--	0.02474	0.013 U
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	10.83	10.83	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.0066 U ²
1,2-Dichlorobenzene	60	60	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.0066 U ²
1,3-Dichlorobenzene	60	60	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.0066 U ²
1,4-Dichlorobenzene	7.5	7.5	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.0066 U ²
2,4,6-Trichlorophenol	3	3	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2,4-Dichlorophenol	2	2	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2,4-Dimethylphenol	70	70	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2,4-Dinitrophenol	7	7	--		0.792 U	0.814 U	0.855 U	--	0.745 U	--
2,4-Dinitrotoluene	1	1	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2,6-Dinitrotoluene	1	1	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2-Chloronaphthalene	25	42.16	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2-Chlorophenol	4	4	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
2-Methylnaphthalene ³	--	--	--		--	--	--	--	--	0.330
2-Nitrophenol	1000	1000	--		0.792 U	0.814 U	0.855 U	--	0.745 U	--
3,3-Dichlorobenzidine	25	25	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
4,6-Dinitro-2-methylphenol	2	2	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
4-Bromophenyl phenyl ether	1000	1000	--		0.198 U	0.204 U	0.214 U	--	0.186 U	--
4-Chloro-3-methylphenol	13.2	13.2	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
4-Chlorophenyl phenyl ether	1000	1000	--		0.396 U	0.407 U	0.428 U	--	0.373 U	--
4-Nitrophenol	6	6	--		0.792 U	0.814 U	0.855 U	--	0.745 U	--
Acenaphthene	300	300	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Acenaphthylene	130	130	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Anthracene	500	1009	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Benzo(a)anthracene	5	5	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.720
Benzo(a)pyrene	1.64	1.64	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.720
Benzo(b)fluoranthene	5	5	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.640
Benzo(ghi)perylene	500	500	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.500
Benzo(k)fluoranthene	13.71	46.06	--		0.396 U	0.407 U	0.428 U	--	0.373 U	0.600

TABLE D.2.3
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: GP260+49 4-6	DUP-1(GP260+49 4-6)	GP258+69 1-3	GP258+69 8-10	GP256+71 1-3	MW-6(8.5-10)
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date: 3/4/2014 Soil mg/kg	Sample Matrix: 3/4/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	12/8/2004 Soil mg/kg
Benzyl Butyl phthalate	50	50	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Bis(2-chloroethoxy)methane	1	1	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Bis(2-chloroethyl)ether	1	1	--	0.198 U	0.204 U	0.214 U	--	0.186 U	--
Bis(2-chloroisopropyl)ether	170.91	170.91	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Bis(2-ethylhexyl)phthalate	50	50	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Chrysene	42.14	141.59	--	0.396 U	0.407 U	0.428 U	--	0.373 U	0.860
Dibenzo(a,h)anthracene	2.05	5	--	0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Diethyl phthalate	500	500	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Dimethyl phthalate	40000	40000	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Di-n-butyl phthalate	400	400	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Di-n-octyl phthalate	2800	2800	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Fluoranthene	500	500	--	0.396 U	0.407 U	0.428 U	--	0.373 U	1.40
Fluorene	360	360	--	0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Hexachlorobenzene	2.14	2.14	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Hexachlorobutadiene	17.5	17.5	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Hexachlorocyclopentadiene	15.2	15.2	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Hexachloroethane	9.99	9.99	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Indeno(1,2,3-cd)pyrene	5	15.30	--	0.396 U	0.407 U	0.428 U	--	0.373 U	0.420
Isophorone	10	10	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Naphthalene	10.46	100	--	0.396 U	0.407 U	0.428 U	--	0.373 U	0.390 U
Nitrobenzene	2	2	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
N-Nitrosodi-n-propylamine	1.71	1.71	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
N-Nitrosodiphenylamine	6.46	6.46	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Pentachlorophenol	3.3	3.3	--	0.792 U	0.814 U	0.855 U	--	0.745 U	--
Phenanthrene	110	110	--	0.396 U	0.407 U	0.428 U	--	0.373 U	1.30
Phenol	400	400	--	0.396 U	0.407 U	0.428 U	--	0.373 U	--
Pyrene	500	500	--	0.396 U	0.407 U	0.428 U	--	0.373 U	1.30
Metals									
Arsenic	20	38.12	63	28.5	21.4	96.7	38.5	14	--
Barium	1000	1000	--	86.4	88.5	102	--	67.1	--
Cadmium (Diet)	2	39	--	1.22	1.55	1.45	--	0.514 U	--
Chromium, Total	100	1200	--	31.6	29.2	39.9	--	5.14 U	--
Lead	75	400	--	46.1	33.2	28.8	--	5.53	--
Selenium	2	36	--	5.57 U ¹	5.93 U ¹	6.36 U ¹	--	5.14 U ¹	--
Silver	2	10	--	5.57 U ¹	5.93 U ¹	6.36 U ¹	--	5.14 U ¹	--
Mercury, Total									
Mercury (Inorganic Salts)	0.5	17	--	0.0891	0.0835	0.107	--	0.0538 U	--
Cyanide, Total									
Cyanide (CN-)	20	20.64	--	0.139 U	0.133 U	0.145 U	--	0.118 U	--
Phenolics									
Phenolics	--	--	--	3.69	32.3 J	3.44	--	0.317 U	--
Pesticides									
4,4-DDD	0.835	2.80	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
4,4-DDE	0.66	1.98	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
4,4-DDT	0.845	2.84	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Aldrin	0.66	0.66	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Alpha-BHC	0.66	0.66	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Alpha-Chlordane	9.2	9.2	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Beta-BHC	0.66	0.66	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Chlordane-Technical	9.2	9.2	--	0.02 U	0.0204 U	0.0214 U	--	0.0187 U	--
Delta-BHC	8.30	25	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Dieldrin	0.66	0.66	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Endosulfan I	10	10	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Endosulfan II	10	10	--	0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--

TABLE D.2.3
DATA SUMMARY - SOIL SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP260+49 4-6	DUP-1(GP260+49 4-6)	GP258+69 1-3	GP258+69 8-10	GP256+71 1-3	MW-6(8.5-10)
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/4/2014	3/4/2014	3/5/2014	3/5/2014	3/5/2014	12/8/2004
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Endosulfan Sulfate	1.65	8.41	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Endrin	10	10	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Endrin Aldehyde	10	10	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Gamma-BHC (Lindane)	0.66	0.66	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Gamma-Chlordane	9.2	9.2	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Heptachlor	0.66	0.66	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Heptachlor Epoxide	1.64	1.65	--		0.000801 U	0.000815 U	0.000856 U	--	0.000746 U	--
Toxaphene	10.88	10.88	--		0.02 U	0.0204 U	0.0214 U	--	0.0187 U	--
Polychlorinated Biphenyls (PCBs)										
Aroclor-1016	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1221	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1232	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1242	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1248	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1254	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Aroclor-1260	1.55	1.55	--		0.02 U	0.0204 U	0.0214 U	--	0.0186 U	--
Percent Moisture (%)										
Percent Moisture	--	--	--		16.8	18.2	22.1	8.53	10.7	16.2

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UL = Constituent is not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

Prepared by/Date: JAH 04-03-15

Checked by/Date: DWK 04-03-15

**TABLE D.2.4
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**



PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	MW 268+04	MW-6
		Sample Date:	4/25/2014	12/13/2004
		Sample Matrix:	Groundwater	Groundwater
		Units:	mg/L	mg/L
<u>Volatile Organic Compounds (VOCs)</u>				
1,1,1-Trichloroethane	0.200		0.001 U	0.005 U
1,1,2,2-Tetrachloroethane	0.001		0.001 U	0.005 U ¹
1,1,2-Trichloroethane	0.005		0.001 U	0.005 U
1,1-Dichloroethane	4.0		0.001 U	0.005 U
1,1-Dichloroethene	0.007		0.001 U	0.005 U
1,2-Dichloroethane	0.005		0.001 U	0.005 U
1,2-Dichloropropane	0.005		0.001 U	0.005 U
2-Butanone	2.0		0.002 U	0.05 U
Acrolein	0.700		0.02 U	--
Acrylonitrile	0.002		0.002 U	--
Benzene	0.005		0.001 U	0.005 U
Bromodichloromethane	0.08		0.001 U	0.005 U
Bromoform	0.08		0.001 U	0.005 U
Bromomethane (Methyl bromide)	0.01		0.001 U	0.005 U
Carbon Tetrachloride	0.005		0.001 U	0.005 U
Chlorobenzene	0.10		0.001 U	0.005 U
Chloroethane (Ethyl chloride)	0.001		0.001 U	0.01 U ¹
Chloroform	0.08		0.001 U	0.005 U
Chloromethane	0.003		0.001 U	0.01 U ¹
cis-1,3-Dichloropropene	0.002		0.001 U	0.005 U ¹
Dibromochloromethane	0.08		0.001 U	0.005 U
Ethylbenzene	0.70		0.001 U	0.005 U
Methylene Chloride	0.005		0.001 U	0.005 U
Styrene	0.10		0.001 U	0.005 U
Tetrachloroethene	0.005		0.001 U	0.005 U
Toluene	1.0		0.001 U	0.005 U
trans-1,2-Dichloroethene	0.10		0.001 U	0.005 U
trans-1,3-Dichloropropene	0.002		0.001 U	0.005 U ¹
Trichloroethene	0.005		0.001 U	0.005 U
Vinyl chloride (lifetime)	0.002		0.001 U	0.002 U
Xylenes, mixture	10		0.001 U	0.01 U
<u>Semi-Volatile Organic Compounds (SVOCs)</u>				
1,2,4-Trichlorobenzene	0.07		0.00979 U	0.005 U ²
1,2-Dichlorobenzene	0.60		0.00979 U	0.005 U ²
1,3-Dichlorobenzene	0.60		0.00979 U	0.005 U ²
1,4-Dichlorobenzene	0.075		0.00979 U	0.005 U ²
2,4,6-Trichlorophenol	0.03		0.00979 U	--
2,4-Dichlorophenol	0.02		0.00979 U	--
2,4-Dimethylphenol	0.70		0.00979 U	--
2,4-Dinitrophenol	0.07		0.00979 U	--
2,4-Dinitrotoluene	0.01		0.00979 U	--
2,6-Dinitrotoluene	0.01		0.00979 U	--
2-Chloronaphthalene	0.01		0.00979 U	--
2-Chlorophenol	0.04		0.00979 U	--
2-Nitrophenol	0.02		0.00979 U	--
3,3-Dichlorobenzidine	0.02		0.00979 U	--
4,6-Dinitro-2-methylphenol	0.02		0.00979 U	--
4-Bromophenyl phenyl ether	0.01		0.00979 U	--
4-Chloro-3-methylphenol	0.01		0.00979 U	--
4-Chlorophenyl phenyl ether	0.01		0.00979 U	--
4-Nitrophenol	0.06		0.00979 U	--
Butyl benzyl phthalate	0.10		0.00979 U	--
Bis(2-chloroethoxy)methane	0.01		0.00979 U	--
Bis(2-chloroethyl)ether	0.01		0.00979 U	--
Bis(2-chloroisopropyl)ether	0.01		0.00979 U	--

**TABLE D.2.4
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**



PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	MW 268+04	MW-6
		Sample Date:	4/25/2014	12/13/2004
		Sample Matrix:	Groundwater	Groundwater
		Units:	mg/L	mg/L
Bis(2-ethylhexyl)phthalate	0.006		0.00979 U ¹	--
Diethyl phthalate	5.0		0.00979 U	--
Dimethyl phthalate	400		0.00979 U	--
Di-n-butyl phthalate	4.0		0.00979 U	--
Di-n-octyl phthalate	0.7		0.00979 U	--
Hexachlorobenzene	0.001		0.00979 U ¹	--
Hexachlorobutadiene	0.01		0.00979 U	--
Hexachlorocyclopentadiene	0.05		0.00979 U	--
Hexachloroethane	0.01		0.00979 U	--
Isophorone	0.10		0.00979 U	--
Nitrobenzene	0.02		0.00979 U	--
N-Nitrosodi-n-propylamine	0.01		0.00979 U	--
N-Nitrosodiphenylamine	0.01		0.00979 U	--
Pentachlorophenol	0.001		0.00979 U ¹	--
Phenol	4.0		0.00979 U	--
<u>Polycyclic Aromatic Hydrocarbons (PAHs)</u>				
1-Methylnaphthalene	0.01		0.0001 U	--
2-Methylnaphthalene	0.01		0.0001 U	--
Acenaphthene	2.0		0.0002 U	--
Acenaphthylene	0.0002		0.0001 U	--
Anthracene	0.0002		0.0001 U	--
Benzo(a)anthracene	0.0002		0.0001 U	--
Benzo(a)pyrene	0.0002		0.0001 U	--
Benzo(b)fluoranthene	0.0002		0.0001 U	--
Benzo(ghi)perylene	0.0002		0.0001 U	--
Benzo(k)fluoranthene	0.0002		0.0001 U	--
Chrysene	0.0002		0.0001 U	--
Dibenzo(a,h)anthracene	0.0003		0.0001 U	--
Fluoranthene	1.0		0.0001 U	--
Fluorene	1.0		0.0001 U	--
Indeno(1,2,3-cd)pyrene	0.0004		0.0001 U	--
Naphthalene	0.02		0.0001 U	--
Phenanthrene	0.0002		0.0001 U	--
Pyrene	1.0		0.0001 U	--
<u>Metals</u>				
			<u>Total</u>	<u>Dissolved</u>
Arsenic	0.01		0.01 U	0.01 U
Barium	2.0		0.0665	0.0657
Cadmium (Water)	0.005		0.005 U	0.005 U
Chromium, Total	0.10		0.05 U	0.05 U
Chromium III (Insoluble Salts)	0.10		0.05 U	0.05 U
Chromium VI (Particulates)	0.002		--	--
Copper	1.3		--	--
Lead	0.015		0.01 U	0.01 U
Nickel	0.10		--	--
Selenium	0.05		0.05 U	0.05 U
Silver	0.10		0.05 U	0.05 U
Zinc	2.0		--	--
<u>Mercury, Total</u>				
			<u>Total</u>	<u>Dissolved</u>
Mercury (Inorganic Salts)	0.002		0.002 U	0.002 U
<u>Cyanide, Total</u>				
Cyanide (CN-)	0.20		0.01 U	--
<u>Phenolics</u>				
Phenolics	4.0		0.05 U	--

**TABLE D.2.4
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY SOUTH - ATLANTA BELTLINE
ATLANTA, GEORGIA**



PARAMETER	Type 1/ Type 3	Sample ID:	MW 268+04	MW-6
	RRS (mg/L)	Sample Date:	4/25/2014	12/13/2004
		Sample Matrix:	Groundwater	Groundwater
		Units:	mg/L	mg/L
<u>Pesticides</u>				
4,4-DDD	0.0001		0.0001 U	--
4,4-DDE	0.0001		0.0001 U	--
4,4-DDT	0.0001		0.0001 U	--
Aldrin	0.00005		0.00005 U	--
Alpha-BHC	0.00005		0.00005 U	--
Alpha-Chlordane	0.002		0.00005 U	--
Beta-BHC	0.00005		0.00005 U	--
Chlordane-Technical	0.002		0.0005 U	--
Delta-BHC	0.00005		0.00005 U	--
Dieldrin	0.0001		0.0001 U	--
Endosulfan I	0.002		0.00005 U	--
Endosulfan II	0.002		0.0001 U	--
Endosulfan Sulfate	0.002		0.0001 U	--
Endrin	0.002		0.0001 U	--
Endrin Aldehyde	0.0001		0.0001 U	--
Gamma-BHC (Lindane)	0.0002		0.00005 U	--
Gamma-Chlordane	0.002		0.00005 U	--
Heptachlor	0.0004		0.00005 U	--
Heptachlor Epoxide	0.0002		0.00005 U	--
Toxaphene	0.003		0.002 U	--
<u>Polychlorinated Biphenyls (PCBs)</u>				
Aroclor-1016	0.001		0.001 U	--
Aroclor-1221	0.001		0.001 U	--
Aroclor-1232	0.001		0.001 U	--
Aroclor-1242	0.001		0.001 U	--
Aroclor-1248	0.001		0.001 U	--
Aroclor-1254	0.001		0.001 U	--
Aroclor-1260	0.001		0.001 U	--

Notes:

= Exceeds Non-Residential RRS
 = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = These analytes were analyzed by Volatile Method SW8260B.

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

JL = Value listed is estimated; possibly biased low or false positive based on QC data.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

mg/L = milligrams per liter

RL = Reporting Limit

RRS = Risk Reduction Standard

Prepared by/Date: JAH 3/31/15

Checked by/Date: DWK 3/31/15

TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP252+57 1-3	GP252+57 6-8	MW-249+40 1-2.5	MW-249+40 9-10.5	MW-248+26 3-4.5	MW-244+57 0-1.5
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/5/2014	3/5/2014	2/20/2014	2/20/2014	2/21/2014	2/21/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	20	20	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,1-Dichloroethane	400	400	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,1-Dichloroethene	0.7	0.7	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,2-Dichloroethane	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
1,2-Dichloropropane	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
2-Butanone	200	200	--		0.0473 U	--	0.0584 U	0.0408 U	0.0467 U	0.0444 U
Acrolein	0.062	0.066	--		0.00945 U	--	0.0117 U	0.00817 U	0.00935 U	0.00888 U
Acrylonitrile	1.37	1.37	--		0.00945 U	--	0.0117 U	0.00817 U	0.00935 U	0.00888 U
Benzene	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Bromodichloromethane	3.71	4.72	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Bromoform	8	8	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Bromomethane (Methyl bromide)	1	1	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Carbon Tetrachloride	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Chlorobenzene	10	10	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Chloroform	3.85	4.88	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Chloromethane	0.3	0.3	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Dibromochloromethane	0.475	8	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Ethylbenzene	70	70	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Methylene Chloride	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Styrene	14	14	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Tetrachloroethene	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Toluene	100	100	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
trans-1,2-Dichloroethene	10	10	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Trichloroethene	0.5	0.5	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Xylenes, mixture	1000	1000	--		0.00473 U	--	0.00584 U	0.00408 U	0.00467 U	0.00444 U
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	10.83	10.83	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
1,2-Dichlorobenzene	60	60	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
1,3-Dichlorobenzene	60	60	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
1,4-Dichlorobenzene	7.5	7.5	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2,4,6-Trichlorophenol	3	3	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2,4-Dichlorophenol	2	2	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2,4-Dimethylphenol	70	70	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2,4-Dinitrophenol	7	7	--		0.83 U	--	0.848 U	0.767 U	0.791 U	0.805 U
2,4-Dinitrotoluene	1	1	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2,6-Dinitrotoluene	1	1	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2-Chloronaphthalene	25	42.16	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2-Chlorophenol	4	4	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
2-Nitrophenol	1000	1000	--		0.83 U	--	0.848 U	0.767 U	0.791 U	0.805 U
3,3-Dichlorobenzidine	25	25	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
4,6-Dinitro-2-methylphenol	2	2	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
4-Bromophenyl phenyl ether	1000	1000	--		0.208 U	--	0.212 U	0.192 U	0.198 U	0.201 U
4-Chloro-3-methylphenol	13.2	13.2	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
4-Chlorophenyl phenyl ether	1000	1000	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
4-Nitrophenol	6	6	--		0.83 U	--	0.848 U	0.767 U	0.791 U	0.805 U
Acenaphthene	300	300	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Acenaphthylene	130	130	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Anthracene	500	1009	--		0.415 U	--	0.601	0.384 U	0.395 U	0.402 U
Benzo(a)anthracene	5	5	--		0.415 U	--	1.07	0.384 U	0.395 U	0.402 U
Benzo(a)pyrene	1.64	1.64	--		0.415 U	--	0.708	0.384 U	0.395 U	0.402 U
Benzo(b)fluoranthene	5	5	--		0.415 U	--	1.12	0.384 U	0.395 U	0.402 U
Benzo(ghi)perylene	500	500	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Benzo(k)fluoranthene	13.71	46.06	--		0.415 U	--	0.602	0.384 U	0.395 U	0.402 U
Benzyl Butyl phthalate	50	50	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Bis(2-chloroethoxy)methane	1	1	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U

TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP252+57 1-3	GP252+57 6-8	MW-249+40 1-2.5	MW-249+40 9-10.5	MW-248+26 3-4.5	MW-244+57 0-1.5
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/5/2014	3/5/2014	2/20/2014	2/20/2014	2/21/2014	2/21/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Bis(2-chloroethyl)ether	1	1	--		0.208 U	--	0.212 U	0.192 U	0.198 U	0.201 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Chrysene	42.14	141.59	--		0.415 U	--	0.979	0.384 U	0.395 U	0.402 U
Dibenzo(a,h)anthracene	2.05	5	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Diethyl phthalate	500	500	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Dimethyl phthalate	40000	40000	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Di-n-butyl phthalate	400	400	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Di-n-octyl phthalate	2800	2800	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Fluoranthene	500	500	--		0.615	--	1.83	0.384 U	0.395 U	0.402 U
Fluorene	360	360	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Hexachlorobenzene	2.14	2.14	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Hexachlorobutadiene	17.5	17.5	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Hexachloroethane	9.99	9.99	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Isophorone	10	10	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Naphthalene	10.46	100	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Nitrobenzene	2	2	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Pentachlorophenol	3.3	3.3	--		0.83 U	--	0.848 U	0.767 U	0.791 U	0.805 U
Phenanthrene	110	110	--		0.415 U	--	0.47	0.384 U	0.395 U	0.402 U
Phenol	400	400	--		0.415 U	--	0.424 U	0.384 U	0.395 U	0.402 U
Pyrene	500	500	--		0.738	--	1.55	0.384 U	0.395 U	0.402 U
Metals										
Arsenic	20	38.12	63		372	577	61.9	4.59 U	69.7	107
Barium	1000	1000	--		131	--	136	85.6	106	109
Cadmium (Diet)	2	39	--		0.773	--	1.06	0.908	0.876	1.1
Chromium, Total	100	1200	--		12.7	--	19.8	17.2	14.7	29.6
Lead	75	400	--		57.4	--	38	9.57	13.1	8.41
Selenium	2	36	--		5.77 U¹	--	4.72 U¹	4.59 U¹	4.42 U¹	4.76 U¹
Silver	2	10	--		5.77 U¹	--	4.72 U¹	4.59 U¹	4.42 U¹	4.76 U¹
Mercury, Total										
Mercury (Inorganic Salts)	0.5	17	--		0.135	--	0.05 U	0.0431 U	0.0481 U	0.05 U
Percent Moisture (%)										
Percent Moisture	--	--	--		19.7	17.9	22.5	15.3	17.4	17.6

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: MW-244+57 8.5-10	MW-243+16 2.5-4	MW-243+16 13.5-15	GP238+65 4-6	GP235+66 2-4	GP232+26 2-4	
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date: 2/21/2014	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	20	20	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,1,2,2-Tetrachloroethane	0.13	0.13	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,1,2-Trichloroethane	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,1-Dichloroethane	400	400	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,1-Dichloroethene	0.7	0.7	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,2-Dichloroethane	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
1,2-Dichloropropane	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
2-Butanone	200	200	--	0.0604 U	0.0497 U	0.0545 U	0.0683 U	0.0509 U	0.0611 U	
Acrolein	0.062	0.066	--	0.0121 U	0.00994 U	0.0109 U	0.0137 U	0.0102 U	0.0122 U	
Acrylonitrile	1.37	1.37	--	0.0121 U	0.00994 U	0.0109 U	0.0137 U	0.0102 U	0.0122 U	
Benzene	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Bromodichloromethane	3.71	4.72	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Bromoform	8	8	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Bromomethane (Methyl bromide)	1	1	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Carbon Tetrachloride	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Chlorobenzene	10	10	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Chloroethane (Ethyl chloride)	1.71	8.37	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Chloroform	3.85	4.88	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Chloromethane	0.3	0.3	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
cis-1,3-Dichloropropene	0.2	0.2	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Dibromochloromethane	0.475	8	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Ethylbenzene	70	70	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Methylene Chloride	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Styrene	14	14	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Tetrachloroethene	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Toluene	100	100	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
trans-1,2-Dichloroethene	10	10	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
trans-1,3-Dichloropropene	0.2	0.2	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Trichloroethene	0.5	0.5	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Vinyl chloride (lifetime)	0.2	0.2	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Xylenes, mixture	1000	1000	--	0.00604 U	0.00497 U	0.00545 U	0.00683 U	0.00509 U	0.00611 U	
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	10.83	10.83	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
1,2-Dichlorobenzene	60	60	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
1,3-Dichlorobenzene	60	60	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
1,4-Dichlorobenzene	7.5	7.5	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2,4,6-Trichlorophenol	3	3	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2,4-Dichlorophenol	2	2	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2,4-Dimethylphenol	70	70	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2,4-Dinitrophenol	7	7	--	0.745 UJ	0.661 U	0.778 U	0.893 U	0.774 U	0.785 U	
2,4-Dinitrotoluene	1	1	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2,6-Dinitrotoluene	1	1	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2-Chloronaphthalene	25	42.16	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2-Chlorophenol	4	4	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
2-Nitrophenol	1000	1000	--	0.745 UJ	0.661 U	0.778 U	0.893 U	0.774 U	0.785 U	
3,3-Dichlorobenzidine	25	25	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
4,6-Dinitro-2-methylphenol	2	2	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
4-Bromophenyl phenyl ether	1000	1000	--	0.186 UJ	0.165 U	0.194 U	0.223 U	0.194 U	0.196 U	
4-Chloro-3-methylphenol	13.2	13.2	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
4-Chlorophenyl phenyl ether	1000	1000	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
4-Nitrophenol	6	6	--	0.745 UJ	0.661 U	0.778 U	0.893 U	0.774 U	0.785 U	
Acenaphthene	300	300	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Acenaphthylene	130	130	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Anthracene	500	1009	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzo(a)anthracene	5	5	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzo(a)pyrene	1.64	1.64	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzo(b)fluoranthene	5	5	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzo(ghi)perylene	500	500	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzo(k)fluoranthene	13.71	46.06	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Benzyl Butyl phthalate	50	50	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	
Bis(2-chloroethoxy)methane	1	1	--	0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U	



TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	MW-244+57 8.5-10	MW-243+16 2.5-4	MW-243+16 13.5-15	GP238+65 4-6	GP235+66 2-4	GP232+26 2-4
	Selected Residential mg/kg	Selected Nonresidential mg/kg			2/21/2014 Soil mg/kg	2/21/2014 Soil mg/kg	2/21/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg
Bis(2-chloroethyl)ether	1	1	--		0.186 U	0.165 U	0.194 U	0.223 U	0.194 U	0.196 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Chrysene	42.14	141.59	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Dibenzo(a,h)anthracene	2.05	5	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Diethyl phthalate	500	500	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Dimethyl phthalate	40000	40000	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Di-n-butyl phthalate	400	400	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Di-n-octyl phthalate	2800	2800	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Fluoranthene	500	500	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Fluorene	360	360	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Hexachlorobenzene	2.14	2.14	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Hexachlorobutadiene	17.5	17.5	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.373 U	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Hexachloroethane	9.99	9.99	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Isophorone	10	10	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Naphthalene	10.46	100	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Nitrobenzene	2	2	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Pentachlorophenol	3.3	3.3	--		0.745 UJ	0.661 U	0.778 U	0.893 U	0.774 U	0.785 U
Phenanthrene	110	110	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Phenol	400	400	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Pyrene	500	500	--		0.373 UJ	0.331 U	0.389 U	0.447 U	0.387 U	0.393 U
Metals										
Arsenic	20	38.12	63		4.67 U	20.7	8.62	6.18 U	5.12 U	493
Barium	1000	1000	--		88.6	111	42.6	169	218	146
Cadmium (Diet)	2	39	--		1.07	3.25	0.442 U	1.54	1.9	10.1
Chromium, Total	100	1200	--		13.1	187	14.1	24.3	43.1	84.9
Lead	75	400	--		9.31	1340	7.43	6.87	18.2	14.4
Selenium	2	36	--		4.67 U ¹	4.95 U ¹	4.42 U ¹	6.18 U ¹	5.12 U ¹	5.47 U ¹
Silver	2	10	--		4.67 U ¹	4.95 U ¹	4.42 U ¹	6.18 U ¹	5.12 U ¹	5.47 U ¹
Mercury, Total										
Mercury (Inorganic Salts)	0.5	17	--		0.05 U	0.161	0.0472 U	0.066 U	0.0495 U	1.2
Percent Moisture (%)										
Percent Moisture	--	--	--		11.3	18.5	15.4	25.8	14.4	16.2

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.
² = Constituents were analyzed by VOC Method SW8260B

Bold = Constituent has been detected at or above the reporting limit.
 -- = Not Analyzed
 J = Value listed is estimated based on associated QC data
 UJ = Constituent was not detected; reporting limit is estimated.
 U = Constituent was not detected at the reporting limit
 MDL = Method Detection Limit
 RL = Reporting Limit
 RRS = Risk Reduction Standard

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP232+26 8-10	GP232+26 16-18	GP228+30 4-6	GP228+30 10-12	GP226+63 1-3	GP226+63 4-6
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/5/2014	3/5/2014	3/5/2014	3/5/2014	3/5/2014	3/5/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	20	20	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,1-Dichloroethane	400	400	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,1-Dichloroethene	0.7	0.7	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,2-Dichloroethane	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
1,2-Dichloropropane	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
2-Butanone	200	200	--		0.0362 U	--	0.0495 U	0.086 U	0.0486 U	0.0543 U
Acrolein	0.062	0.066	--		0.00724 U	--	0.00989 U	0.0172 U	0.00972 U	0.0109 U
Acrylonitrile	1.37	1.37	--		0.00724 U	--	0.00989 U	0.0172 U	0.00972 U	0.0109 U
Benzene	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Bromodichloromethane	3.71	4.72	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Bromoform	8	8	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Bromomethane (Methyl bromide)	1	1	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Carbon Tetrachloride	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Chlorobenzene	10	10	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Chloroform	3.85	4.88	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Chloromethane	0.3	0.3	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Dibromochloromethane	0.475	8	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Ethylbenzene	70	70	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Methylene Chloride	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Styrene	14	14	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Tetrachloroethene	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Toluene	100	100	--		0.00362 U	--	0.00495 U	0.0086 U	0.00595	0.0195
trans-1,2-Dichloroethene	10	10	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Trichloroethene	0.5	0.5	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Xylenes, mixture	1000	1000	--		0.00362 U	--	0.00495 U	0.0086 U	0.00486 U	0.00543 U
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	10.83	10.83	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
1,2-Dichlorobenzene	60	60	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
1,3-Dichlorobenzene	60	60	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
1,4-Dichlorobenzene	7.5	7.5	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2,4,6-Trichlorophenol	3	3	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2,4-Dichlorophenol	2	2	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2,4-Dimethylphenol	70	70	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2,4-Dinitrophenol	7	7	--		0.696 U	--	0.828 U	0.79 U	0.845 U	0.818 U
2,4-Dinitrotoluene	1	1	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2,6-Dinitrotoluene	1	1	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2-Chloronaphthalene	25	42.16	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2-Chlorophenol	4	4	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
2-Nitrophenol	1000	1000	--		0.696 U	--	0.828 U	0.79 U	0.845 U	0.818 U
3,3-Dichlorobenzidine	25	25	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
4,6-Dinitro-2-methylphenol	2	2	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
4-Bromophenyl phenyl ether	1000	1000	--		0.174 U	--	0.207 U	0.197 U	0.211 U	0.205 U
4-Chloro-3-methylphenol	13.2	13.2	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
4-Chlorophenyl phenyl ether	1000	1000	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
4-Nitrophenol	6	6	--		0.696 U	--	0.828 U	0.79 U	0.845 U	0.818 U
Acenaphthene	300	300	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Acenaphthylene	130	130	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Anthracene	500	1009	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzo(a)anthracene	5	5	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzo(a)pyrene	1.64	1.64	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzo(b)fluoranthene	5	5	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzo(ghi)perylene	500	500	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzo(k)fluoranthene	13.71	46.06	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Benzyl Butyl phthalate	50	50	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Bis(2-chloroethoxy)methane	1	1	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: Sample Date: Sample Matrix: Units:	GP232+26 8-10	GP232+26 16-18	GP228+30 4-6	GP228+30 10-12	GP226+63 1-3	GP226+63 4-6
	Selected Residential mg/kg	Selected Nonresidential mg/kg			3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg	3/5/2014 Soil mg/kg
Bis(2-chloroethyl)ether	1	1	--		0.174 U	--	0.207 U	0.197 U	0.211 U	0.205 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Chrysene	42.14	141.59	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Dibenzo(a,h)anthracene	2.05	5	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Diethyl phthalate	500	500	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Dimethyl phthalate	40000	40000	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Di-n-butyl phthalate	400	400	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Di-n-octyl phthalate	2800	2800	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Fluoranthene	500	500	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Fluorene	360	360	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Hexachlorobenzene	2.14	2.14	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Hexachlorobutadiene	17.5	17.5	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Hexachloroethane	9.99	9.99	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Isophorone	10	10	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Naphthalene	10.46	100	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Nitrobenzene	2	2	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Pentachlorophenol	3.3	3.3	--		0.696 U	--	0.828 U	0.79 U	0.845 U	0.818 U
Phenanthrene	110	110	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Phenol	400	400	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Pyrene	500	500	--		0.348 U	--	0.414 U	0.395 U	0.423 U	0.409 U
Metals										
Arsenic	20	38.12	63		4.8 U		517	473	5.45 U	98.1
Barium	1000	1000	--		48.7	--	97.5	154	43.4	77
Cadmium (Diet)	2	39	--		0.806	--	1.05	1.07	1.57	0.676
Chromium, Total	100	1200	--		36.6	--	29	25.1	40.8	17.2
Lead	75	400	--		10.8	--	66.3	15	18.6	9.16
Selenium	2	36	--		4.8 U ¹	--	5.72 U ¹	5.49 U ¹	5.45 U ¹	5.36 U ¹
Silver	2	10	--		4.8 U ¹	--	5.72 U ¹	5.49 U ¹	5.45 U ¹	5.36 U ¹
Mercury, Total										
Mercury (Inorganic Salts)	0.5	17	--		0.0507 U	--	0.0617 U	0.0534 U	0.0638 U	0.0541 U
Percent Moisture (%)										
Percent Moisture	--	--	--		5.21	16	20.5	16.5	21.6	18.9

Notes:

- = Exceeds Residential RRS
 - = Exceeds Non-Residential RRS
 - = Exceeds Arsenic Soil Barrier Type V RRS
 - = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.
- ¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.
² = Constituents were analyzed by VOC Method SW8260B
Bold = Constituent has been detected at or above the reporting limit.
 -- = Not Analyzed
 J = Value listed is estimated based on associated QC data
 UJ = Constituent was not detected; reporting limit is estimated.
 U = Constituent was not detected at the reporting limit
 MDL = Method Detection Limit
 RL = Reporting Limit
 RRS = Risk Reduction Standard

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP224+88 1-3	GP223+10 2-4	GP220+73 1-2	MW-218+31 4-5.5	MW-218+31 8.5-10	MW-217+73 0-1.5
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/5/2014	3/5/2014	3/5/2014	2/21/2014	2/21/2014	2/21/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	20	20	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,1,2-Trichloroethane	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,1-Dichloroethane	400	400	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,1-Dichloroethene	0.7	0.7	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,2-Dichloroethane	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
1,2-Dichloropropane	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
2-Butanone	200	200	--		0.0612 U	0.043 U	0.0605 U	0.0438 U	0.0524 U	0.0591 U
Acrolein	0.062	0.066	--		0.0122 U	0.0086 U	0.0121 U	0.00876 U	0.0105 U	0.0118 U
Acrylonitrile	1.37	1.37	--		0.0122 U	0.0086 U	0.0121 U	0.00876 U	0.0105 U	0.0118 U
Benzene	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Bromodichloromethane	3.71	4.72	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Bromoform	8	8	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Bromomethane (Methyl bromide)	1	1	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Carbon Tetrachloride	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Chlorobenzene	10	10	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Chloroform	3.85	4.88	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Chloromethane	0.3	0.3	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Dibromochloromethane	0.475	8	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Ethylbenzene	70	70	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Methylene Chloride	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Styrene	14	14	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Tetrachloroethene	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Toluene	100	100	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
trans-1,2-Dichloroethene	10	10	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Trichloroethene	0.5	0.5	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Xylenes, mixture	1000	1000	--		0.00612 U	0.0043 U	0.00605 U	0.00438 U	0.00524 U	0.00591 U
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4-Trichlorobenzene	10.83	10.83	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
1,2-Dichlorobenzene	60	60	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
1,3-Dichlorobenzene	60	60	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
1,4-Dichlorobenzene	7.5	7.5	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2,4,6-Trichlorophenol	3	3	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2,4-Dichlorophenol	2	2	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2,4-Dimethylphenol	70	70	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2,4-Dinitrophenol	7	7	--		0.773 U	0.784 U	0.811 U	0.788 U	0.819 U	0.658 U
2,4-Dinitrotoluene	1	1	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2,6-Dinitrotoluene	1	1	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2-Chloronaphthalene	25	42.16	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2-Chlorophenol	4	4	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
2-Nitrophenol	1000	1000	--		0.773 U	0.784 U	0.811 U	0.788 U	0.819 U	0.658 U
3,3-Dichlorobenzidine	25	25	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
4,6-Dinitro-2-methylphenol	2	2	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
4-Bromophenyl phenyl ether	1000	1000	--		0.193 U	0.196 U	0.203 U	0.197 U	0.205 U	0.164 U
4-Chloro-3-methylphenol	13.2	13.2	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
4-Chlorophenyl phenyl ether	1000	1000	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
4-Nitrophenol	6	6	--		0.773 U	0.784 U	0.811 U	0.788 U	0.819 U	0.658 U
Acenaphthene	300	300	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Acenaphthylene	130	130	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Anthracene	500	1009	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Benzo(a)anthracene	5	5	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Benzo(a)pyrene	1.64	1.64	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Benzo(b)fluoranthene	5	5	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.415
Benzo(ghi)perylene	500	500	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Benzo(k)fluoranthene	13.71	46.06	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Benzyl Butyl phthalate	50	50	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Bis(2-chloroethoxy)methane	1	1	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	GP224+88 1-3	GP223+10 2-4	GP220+73 1-2	MW-218+31 4-5.5	MW-218+31 8.5-10	MW-217+73 0-1.5
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	3/5/2014	3/5/2014	3/5/2014	2/21/2014	2/21/2014	2/21/2014
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Bis(2-chloroethyl)ether	1	1	--		0.193 U	0.196 U	0.203 U	0.197 U	0.205 U	0.164 U
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Bis(2-ethylhexyl)phthalate	50	50	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Chrysene	42.14	141.59	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Dibenzo(a,h)anthracene	2.05	5	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Diethyl phthalate	500	500	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Dimethyl phthalate	40000	40000	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Di-n-butyl phthalate	400	400	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Di-n-octyl phthalate	2800	2800	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Fluoranthene	500	500	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.351
Fluorene	360	360	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Hexachlorobenzene	2.14	2.14	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Hexachlorobutadiene	17.5	17.5	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Hexachlorocyclopentadiene	15.2	15.2	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Hexachloroethane	9.99	9.99	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Isophorone	10	10	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Naphthalene	10.46	100	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Nitrobenzene	2	2	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
N-Nitrosodiphenylamine	6.46	6.46	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Pentachlorophenol	3.3	3.3	--		0.773 U	0.784 U	0.811 U	0.788 U	0.819 U	0.658 U
Phenanthrene	110	110	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Phenol	400	400	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.329 U
Pyrene	500	500	--		0.386 U	0.392 U	0.405 U	0.394 U	0.410 U	0.411
Metals										
Arsenic	20	38.12	63		84.9	98.8	332	4.81 U	5 U	46.1
Barium	1000	1000	--		100	135	157	161	180	157
Cadmium (Diet)	2	39	--		0.703	0.984	1.67	1.55	1.58	1.56
Chromium, Total	100	1200	--		15.3	30.5	45.2	30.1	33.2	26.9
Lead	75	400	--		14.1	20.1	14.2	14.4	12.1	48.4
Selenium	2	36	--		5.76 U ¹	5.47 U ¹	5.97 U ¹	4.81 U ¹	5 U ¹	4.9 U ¹
Silver	2	10	--		5.76 U ¹	5.47 U ¹	5.97 U ¹	4.81 U ¹	5 U ¹	4.9 U ¹
Mercury, Total										
Mercury (Inorganic Salts)	0.5	17	--		0.0502 U	0.0542 U	0.0516 U	0.0446 U	0.0439 U	0.0704
Percent Moisture (%)										
Percent Moisture	--	--	--		14.1	16.1	17.8	19.4	19.2	16.5

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID: MW-217+73 13.5-15	GP215+04 1-3	GP213+13 1-3	GP211+21 1-3	DUP-2(GP211+21 1-3)	GP209+12 2-4	TW-7/2-3	TW-8/7-8	
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date: 2/21/2014	Sample Matrix: Soil mg/kg	3/6/2014 Soil mg/kg	3/6/2014 Soil mg/kg	3/6/2014 Soil mg/kg	3/6/2014 Soil mg/kg	3/6/2014 Soil mg/kg	12/4/2004 Soil mg/kg	12/5/2004 Soil mg/kg
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	20	20	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,1,2,2-Tetrachloroethane	0.13	0.13	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,1,2-Trichloroethane	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,1-Dichloroethane	400	400	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,1-Dichloroethene	0.7	0.7	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,2-Dichloroethane	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
1,2-Dichloropropane	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
2-Butanone	200	200	--	0.0475 U	0.0402 U	0.0519 U	0.0604 U	0.0572 U	0.0534 U	0.012 U	0.011 U	
Acrolein	0.062	0.066	--	0.00951 U	0.00804 U	0.0104 U	0.0121 U	0.0114 U	0.0107 U	--	--	
Acrylonitrile	1.37	1.37	--	0.00951 U	0.00804 U	0.0104 U	0.0121 U	0.0114 U	0.0107 U	--	--	
Benzene	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Bromodichloromethane	3.71	4.72	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Bromoform	8	8	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Bromomethane (Methyl bromide)	1	1	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Carbon Tetrachloride	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Chlorobenzene	10	10	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Chloroethane (Ethyl chloride)	1.71	8.37	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.012 U	0.011 U	
Chloroform	3.85	4.88	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Chloromethane	0.3	0.3	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
cis-1,3-Dichloropropene	0.2	0.2	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Dibromochloromethane	0.475	8	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Ethylbenzene	70	70	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Methylene Chloride	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Styrene	14	14	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Tetrachloroethene	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Toluene	100	100	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
trans-1,2-Dichloroethene	10	10	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
trans-1,3-Dichloropropene	0.2	0.2	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Trichloroethene	0.5	0.5	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.0059 U	0.0056 U	
Vinyl chloride (lifetime)	0.2	0.2	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.012 U	0.011 U	
Xylenes, mixture	1000	1000	--	0.00475 U	0.00402 U	0.00519 U	0.00604 U	0.00572 U	0.00534 U	0.012 U	0.011 U	
Semi-Volatile Organic Compounds (SVOCs)												
1,2,4-Trichlorobenzene	10.83	10.83	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.0059 U ²	0.0056 U ²	
1,2-Dichlorobenzene	60	60	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.0059 U ²	0.0056 U ²	
1,3-Dichlorobenzene	60	60	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.0059 U ²	0.0056 U ²	
1,4-Dichlorobenzene	7.5	7.5	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.0059 U ²	0.0056 U ²	
2,4,6-Trichlorophenol	3	3	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2,4-Dichlorophenol	2	2	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2,4-Dimethylphenol	70	70	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2,4-Dinitrophenol	7	7	--	0.789 U	0.765 U	0.808 U	0.813 U	0.807 U	0.815 U	--	--	
2,4-Dinitrotoluene	1	1	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2,6-Dinitrotoluene	1	1	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2-Chloronaphthalene	25	42.16	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2-Chlorophenol	4	4	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
2-Nitrophenol	1000	1000	--	0.789 U	0.765 U	0.808 U	0.813 U	0.807 U	0.815 U	0.4 U	0.41 U	
3,3-Dichlorobenzidine	25	25	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
4,6-Dinitro-2-methylphenol	2	2	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
4-Bromophenyl phenyl ether	1000	1000	--	0.197 U	0.191 U	0.202 U	0.203 U	0.202 U	0.204 U	--	--	
4-Chloro-3-methylphenol	13.2	13.2	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
4-Chlorophenyl phenyl ether	1000	1000	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
4-Nitrophenol	6	6	--	0.789 U	0.765 U	0.808 U	0.813 U	0.807 U	0.815 U	--	--	
Acenaphthene	300	300	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Acenaphthylene	130	130	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Anthracene	500	1009	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzo(a)anthracene	5	5	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzo(a)pyrene	1.64	1.64	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzo(b)fluoranthene	5	5	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzo(ghi)perylene	500	500	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzo(k)fluoranthene	13.71	46.06	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U	
Benzyl Butyl phthalate	50	50	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	
Bis(2-chloroethoxy)methane	1	1	--	0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--	

TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	MW-217+73 13.5-15	GP215+04 1-3	GP213+13 1-3	GP211+21 1-3	DUP-2(GP211+21 1-3)	GP209+12 2-4	TW-7/2-3	TW-8/7-8
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	2/21/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	12/4/2004
				Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Bis(2-chloroethyl)ether	1	1	--		0.197 U	0.191 U	0.202 U	0.203 U	0.202 U	0.204 U	--	--
Bis(2-chloroisopropyl)ether	170.91	170.91	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Bis(2-ethylhexyl)phthalate	50	50	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Chrysene	42.14	141.59	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.445	0.4 U	0.41 U
Dibenzo(a,h)anthracene	2.05	5	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U
Diethyl phthalate	500	500	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Dimethyl phthalate	40000	40000	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Di-n-butyl phthalate	400	400	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Di-n-octyl phthalate	2800	2800	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Fluoranthene	500	500	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.937	0.4 U	0.41 U
Fluorene	360	360	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U
Hexachlorobenzene	2.14	2.14	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Hexachlorobutadiene	17.5	17.5	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Hexachlorocyclopentadiene	15.2	15.2	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Hexachloroethane	9.99	9.99	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U
Isophorone	10	10	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Naphthalene	10.46	100	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.44 U	0.41 U
Nitrobenzene	2	2	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
N-Nitrosodi-n-propylamine	1.71	1.71	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
N-Nitrosodiphenylamine	6.46	6.46	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Pentachlorophenol	3.3	3.3	--		0.789 U	0.765 U	0.808 U	0.813 U	0.807 U	0.815 U	--	--
Phenanthrene	110	110	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	0.4 U	0.41 U
Phenol	400	400	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	0.407 U	--	--
Pyrene	500	500	--		0.394 U	0.383 U	0.404 U	0.407 U	0.404 U	1.04	0.4 U	0.41 U
Metals												
Arsenic	20	38.12	63		4.72 U	5.47 U	6.06 U	17.6	5.97 U	240	--	--
Barium	1000	1000	--		193	181	154	174	176	105	--	--
Cadmium (Diet)	2	39	--		1.45	0.722	1.02	0.978	1.27	1.07	--	--
Chromium, Total	100	1200	--		26.6	20.2	32.3	27.5	29.1	22.9	--	--
Lead	75	400	--		14.5	14	17.4	13.9	14.3	46.9	--	--
Selenium	2	36	--		4.72 U ¹	5.47 U ¹	6.06 U ¹	5.89 U ¹	5.97 U ¹	6.08 U ¹	--	--
Silver	2	10	--		4.72 U ¹	5.47 U ¹	6.06 U ¹	5.89 U ¹	5.97 U ¹	6.08 U ¹	--	--
Mercury, Total												
Mercury (Inorganic Salts)	0.5	17	--		0.049 U	0.0508 U	0.0571	0.0528 U	0.0609 U	0.0614 U	--	--
Percent Moisture (%)												
Percent Moisture	--	--	--		16.9	13.7	18.3	18.4	17.9	18.6	18.6	19.4

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS

= RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	TW-9/2-3	MW-10(9-10.5)	TW-12/3-4	TW-38/2-3
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	12/4/2004	12/10/2004	12/4/2004	12/6/2004
				Sample Matrix:	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg
<u>Volatile Organic Compounds (VOCs)</u>								
1,1,1-Trichloroethane	20	20	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,1,2,2-Tetrachloroethane	0.13	0.13	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,1,2-Trichloroethane	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,1-Dichloroethane	400	400	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,1-Dichloroethene	0.7	0.7	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,2-Dichloroethane	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
1,2-Dichloropropane	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
2-Butanone	200	200	--		0.012 U	0.0098 U	0.0087 U	0.011 U
Acrolein	0.062	0.066	--		--	--	--	--
Acrylonitrile	1.37	1.37	--		--	--	--	--
Benzene	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Bromodichloromethane	3.71	4.72	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Bromoform	8	8	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Bromomethane (Methyl bromide)	1	1	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Carbon Tetrachloride	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Chlorobenzene	10	10	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Chloroethane (Ethyl chloride)	1.71	8.37	--		0.012 U	0.0098 U	0.0087 U	0.011 U
Chloroform	3.85	4.88	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Chloromethane	0.3	0.3	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
cis-1,3-Dichloropropene	0.2	0.2	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Dibromochloromethane	0.475	8	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Ethylbenzene	70	70	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Methylene Chloride	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Styrene	14	14	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Tetrachloroethene	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Toluene	100	100	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
trans-1,2-Dichloroethene	10	10	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
trans-1,3-Dichloropropene	0.2	0.2	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Trichloroethene	0.5	0.5	--		0.006 U	0.0049 U	0.0043 U	0.0055 U
Vinyl chloride (lifetime)	0.2	0.2	--		0.012 U	0.0098 U	0.0087 U	0.011 U
Xylenes, mixture	1000	1000	--		0.012 U	0.0098 U	0.0087 U	0.011 U
<u>Semi-Volatile Organic Compounds (SVOCs)</u>								
1,2,4-Trichlorobenzene	10.83	10.83	--		0.006 U ²	0.0049 U ²	0.0043 U ²	0.0055 U ²
1,2-Dichlorobenzene	60	60	--		0.006 U ²	0.0049 U ²	0.0043 U ²	0.0055 U ²
1,3-Dichlorobenzene	60	60	--		0.006 U ²	0.0049 U ²	0.0043 U ²	0.0055 U ²
1,4-Dichlorobenzene	7.5	7.5	--		0.006 U ²	0.0049 U ²	0.0043 U ²	0.0055 U ²
2,4,6-Trichlorophenol	3	3	--		--	--	--	--
2,4-Dichlorophenol	2	2	--		--	--	--	--
2,4-Dimethylphenol	70	70	--		--	--	--	--
2,4-Dinitrophenol	7	7	--		--	--	--	--
2,4-Dinitrotoluene	1	1	--		--	--	--	--
2,6-Dinitrotoluene	1	1	--		--	--	--	--
2-Chloronaphthalene	25	42.16	--		--	--	--	--
2-Chlorophenol	4	4	--		--	--	--	--
2-Nitrophenol	1000	1000	--		0.4 U	0.4 U	0.44 U	0.44 U
3,3-Dichlorobenzidine	25	25	--		--	--	--	--
4,6-Dinitro-2-methylphenol	2	2	--		--	--	--	--
4-Bromophenyl phenyl ether	1000	1000	--		--	--	--	--
4-Chloro-3-methylphenol	13.2	13.2	--		--	--	--	--
4-Chlorophenyl phenyl ether	1000	1000	--		--	--	--	--
4-Nitrophenol	6	6	--		--	--	--	--
Acenaphthene	300	300	--		0.4 U	0.4 U	0.44 U	0.44 U
Acenaphthylene	130	130	--		0.4 U	0.4 U	0.44 U	U
Anthracene	500	1009	--		0.4 U	0.4 U	0.44 U	0.74
Benzo(a)anthracene	5	5	--		0.4 U	0.4 U	0.44 U	1.4
Benzo(a)pyrene	1.64	1.64	--		0.4 U	0.4 U	0.44 U	1.5
Benzo(b)fluoranthene	5	5	--		0.4 U	0.4 U	0.44 U	1.9
Benzo(ghi)perylene	500	500	--		0.4 U	0.4 U	0.44 U	0.44 U
Benzo(k)fluoranthene	13.71	46.06	--		0.4 U	0.4 U	0.44 U	0.78
Benzyl Butyl phthalate	50	50	--		--	--	--	--
Bis(2-chloroethoxy)methane	1	1	--		--	--	--	--

**TABLE D.2.5
DATA SUMMARY - SOIL SAMPLE RESULTS
PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	DAF of 1		Soil Barrier Surficial Soil Type V RRS mg/kg	Sample ID:	TW-9/2-3	MW-10(9-10.5)	TW-12/3-4	TW-38/2-3
	Selected Residential mg/kg	Selected Nonresidential mg/kg		Sample Date:	12/4/2004	12/10/2004	12/4/2004	12/6/2004
				Sample Matrix:	Soil	Soil	Soil	Soil
				Units:	mg/kg	mg/kg	mg/kg	mg/kg
Bis(2-chloroethyl)ether	1	1	--		--	--	--	--
Bis(2-chloroisopropyl)ether	170.91	170.91	--		--	--	--	--
Bis(2-ethylhexyl)phthalate	50	50	--		--	--	--	--
Chrysene	42.14	141.59	--		0.4 U	0.4 U	0.44 U	1.5
Dibenzo(a,h)anthracene	2.05	5	--		0.4 U	0.4 U	0.44 U	0.44 U
Diethyl phthalate	500	500	--		--	--	--	--
Dimethyl phthalate	40000	40000	--		--	--	--	--
Di-n-butyl phthalate	400	400	--		--	--	--	--
Di-n-octyl phthalate	2800	2800	--		--	--	--	--
Fluoranthene	500	500	--		0.4 U	0.4 U	0.44 U	3.4
Fluorene	360	360	--		0.4 U	0.4 U	0.44 U	0.44 U
Hexachlorobenzene	2.14	2.14	--		--	--	--	--
Hexachlorobutadiene	17.5	17.5	--		--	--	--	--
Hexachlorocyclopentadiene	15.2	15.2	--		--	--	--	--
Hexachloroethane	9.99	9.99	--		--	--	--	--
Indeno(1,2,3-cd)pyrene	5	15.30	--		0.4 U	0.4 U	0.44 U	0.44 U
Isophorone	10	10	--		--	--	--	--
Naphthalene	10.46	100	--		0.4 U	0.4 U	0.44 U	0.44 U
Nitrobenzene	2	2	--		--	--	--	--
N-Nitrosodi-n-propylamine	1.71	1.71	--		--	--	--	--
N-Nitrosodiphenylamine	6.46	6.46	--		--	--	--	--
Pentachlorophenol	3.3	3.3	--		--	--	--	--
Phenanthrene	110	110	--		0.4 U	0.4 U	0.44 U	2.9
Phenol	400	400	--		--	--	--	--
Pyrene	500	500	--		0.4 U	0.4 U	0.44 U	3.4
Metals								
Arsenic	20	38.12	63		--	--	--	--
Barium	1000	1000	--		--	--	--	--
Cadmium (Diet)	2	39	--		--	--	--	--
Chromium, Total	100	1200	--		--	--	--	--
Lead	75	400	--		--	--	--	--
Selenium	2	36	--		--	--	--	--
Silver	2	10	--		--	--	--	--
Mercury, Total								
Mercury (Inorganic Salts)	0.5	17	--		--	--	--	--
Percent Moisture (%)								
Percent Moisture	--	--	--		18.2	16.7	25.7	18.4

Notes:

- = Exceeds Residential RRS
- = Exceeds Non-Residential RRS
- = Exceeds Arsenic Soil Barrier Type V RRS
- = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.

¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.

² = Constituents were analyzed by VOC Method SW8260B

Bold = Constituent has been detected at or above the reporting limit.

-- = Not Analyzed

J = Value listed is estimated based on associated QC data

UJ = Constituent was not detected; reporting limit is estimated.

U = Constituent was not detected at the reporting limit

MDL = Method Detection Limit

RL = Reporting Limit

RRS = Risk Reduction Standard

Prepared by/Date: JAH 04-03-15

Checked by/Date: DWK 04-03-15



**TABLE D.2.6
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	MW 249+40	MW 244+57	DUP-1 (MW 244+57)	MW 243+16	MW 218+31	MW 217+73	MW-1
		Sample Date:	4/23/2014	4/24/2014	4/24/2014	4/24/2014	4/24/2014	4/24/2014	4/25/2014
		Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
		Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	0.200		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1,2,2-Tetrachloroethane	0.001		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U ¹
1,1,2-Trichloroethane	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1-Dichloroethane	4.0		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1-Dichloroethene	0.007		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dichloroethane	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dichloropropane	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
2-Butanone	2.0		0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.05 U
Acrolein	0.700		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--
Acrylonitrile	0.002		0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	--
Benzene	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromodichloromethane	0.08		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromoform	0.08		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromomethane (Methyl bromide)	0.01		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Carbon Tetrachloride	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Chlorobenzene	0.10		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Chloroethane (Ethyl chloride)	0.001		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U ¹
Chloroform	0.08		0.001 U	0.0128	0.0128	0.001 U	0.001 U	0.001 U	0.005 U
Chloromethane	0.003		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U ¹
cis-1,2-Dichloroethene ³	--		--	--	--	--	--	--	0.210
cis-1,3-Dichloropropene	0.002		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U ¹
Dibromochloromethane	0.08		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Ethylbenzene	0.70		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Methylene Chloride	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Styrene	0.10		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Tetrachloroethene	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.520
Toluene	1.0		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
trans-1,2-Dichloroethene	0.10		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
trans-1,3-Dichloropropene	0.002		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U ¹
Trichloroethene	0.005		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.380 U
Vinyl chloride (lifetime)	0.002		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.028 U
Xylenes, mixture	10		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U
Semi-Volatile Organic Compounds (SVOCs)									
1,2,4-Trichlorobenzene	0.07		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	0.005 U ²
1,2-Dichlorobenzene	0.60		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	0.005 U ²
1,3-Dichlorobenzene	0.60		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	0.005 U ²
1,4-Dichlorobenzene	0.075		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	0.005 U ²
2,4,6-Trichlorophenol	0.03		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
2,4-Dichlorophenol	0.02		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
2,4-Dimethylphenol	0.70		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
2,4-Dinitrophenol	0.07		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
2,4-Dinitrotoluene	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
2,6-Dinitrotoluene	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
2-Chloronaphthalene	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
2-Chlorophenol	0.04		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
2-Nitrophenol	0.02		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
3,3-Dichlorobenzidine	0.02		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
4,6-Dinitro-2-methylphenol	0.02		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
4-Bromophenyl phenyl ether	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
4-Chloro-3-methylphenol	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
4-Chlorophenyl phenyl ether	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
4-Nitrophenol	0.06		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Butyl benzyl phthalate	0.10		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Bis(2-chloroethoxy)methane	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Bis(2-chloroethyl)ether	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Bis(2-chloroisopropyl)ether	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Bis(2-ethylhexyl)phthalate	0.006		0.00985 U¹	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Diethyl phthalate	5.0		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Dimethyl phthalate	400		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Di-n-butyl phthalate	4.0		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Di-n-octyl phthalate	0.7		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Hexachlorobenzene	0.001		0.00985 U¹	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Hexachlorobutadiene	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--
Hexachlorocyclopentadiene	0.05		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--
Hexachloroethane	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--



**TABLE D.2.6
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	MW 249+40	MW 244+57	DUP-1 (MW 244+57)	MW 243+16	MW 218+31	MW 217+73	MW-1	
		Sample Date:	4/23/2014	4/24/2014	4/24/2014	4/24/2014	4/24/2014	4/25/2014	7/26/2005	
		Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
		Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Isophorone	0.10		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--	
Nitrobenzene	0.02		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--	
N-Nitrosodi-n-propylamine	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--	
N-Nitrosodiphenylamine	0.01		0.00985 U	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--	
Pentachlorophenol	0.001		0.00985 U ¹	0.0101 U ¹	0.0102 U ¹	0.0101 U ¹	0.0101 U ¹	0.0102 U ¹	--	
Phenol	4.0		0.00985 U	0.0101 U	0.0102 U	0.0101 U	0.0101 U	0.0102 U	--	
Polycyclic Aromatic Hydrocarbons (PAHs)										
1-Methylnaphthalene	0.01		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
2-Methylnaphthalene	0.01		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Acenaphthene	2.0		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	--	
Acenaphthylene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Anthracene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Benzo(a)anthracene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Benzo(a)pyrene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Benzo(b)fluoranthene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Benzo(ghi)perylene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Benzo(k)fluoranthene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Chrysene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Dibenzo(a,h)anthracene	0.0003		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Fluoranthene	1.0		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Fluorene	1.0		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Indeno(1,2,3-cd)pyrene	0.0004		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Naphthalene	0.02		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Phenanthrene	0.0002		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Pyrene	1.0		0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	--	
Metals										
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Arsenic	0.01		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2.0		0.0861	0.0843	0.0739 J	0.073	0.0773 J	0.075	0.118	0.11
Cadmium (Water)	0.005		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, Total	0.10		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Chromium III (Insoluble Salts)	0.10		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Chromium VI (Particulates)	0.002		--	--	--	--	--	--	--	--
Copper	1.3		--	--	--	--	--	--	--	--
Lead	0.015		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel	0.10		--	--	--	--	--	--	--	--
Selenium	0.05		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver	0.10		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Zinc	2.0		--	--	--	--	--	--	--	--
Mercury, Total										
Mercury (Inorganic Salts)	0.002		0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Polychlorinated Biphenyls (PCBs)										
Aroclor-1016	0.001		--	--	--	--	--	--	--	--
Aroclor-1221	0.001		--	--	--	--	--	--	--	--
Aroclor-1232	0.001		--	--	--	--	--	--	--	--
Aroclor-1242	0.001		--	--	--	--	--	--	--	--
Aroclor-1248	0.001		--	--	--	--	--	--	--	--
Aroclor-1254	0.001		--	--	--	--	--	--	--	--
Aroclor-1260	0.001		--	--	--	--	--	--	--	--

Notes:
 = Exceeds Non-Residential RRS
 = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.
¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.
² = These analytes were analyzed by Volatile Method SW8260B.
³ These analytes were reported from data collected prior to the development of the site-specific RRS and analyte list for the Atlanta BeltLine in 2010.
Bold = Constituent has been detected at or above the reporting limit.
 -- = Not Analyzed
 J = Value listed is estimated based on associated QC data
 JL = Value listed is estimated; possibly biased low or false positive based on QC data.
 U = Constituent was not detected at the reporting limit
 MDL = Method Detection Limit
 mg/L = milligrams per liter
 RL = Reporting Limit
 RRS = Risk Reduction Standard

**TABLE D.2.6
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA**

PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	TW-7	TW-7	TW-8	TW-9	MW-10	TW-12	TW-38
		Sample Date:	12/6/2004	12/13/2004	12/6/2004	12/6/2004	12/13/2004	12/5/2004	12/7/2004
		Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
		Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	0.200		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	0.001		0.005 U ¹	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
1,1,2-Trichloroethane	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	4.0		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	0.007		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone	2.0		0.05 U	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acrolein	0.700		--	--	--	--	--	--	--
Acrylonitrile	0.002		--	--	--	--	--	--	--
Benzene	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane	0.08		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform	0.08		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (Methyl bromide)	0.01		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	0.10		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane (Ethyl chloride)	0.001		0.01 U ¹	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
Chloroform	0.08		0.005 U	--	0.005 U	0.005 U	0.005 U	0.0081	0.005 U
Chloromethane	0.003		0.01 U ¹	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹
cis-1,2-Dichloroethene ³	--		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,3-Dichloropropene	0.002		0.005 U ¹	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
Dibromochloromethane	0.08		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.70		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene Chloride	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	0.10		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005		0.0061	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	1.0		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.10		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	0.002		0.005 U ¹	--	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹	0.005 U ¹
Trichloroethene	0.005		0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl chloride (lifetime)	0.002		0.002 U	--	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Xylenes, mixture	10		0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Semi-Volatile Organic Compounds (SVOCs)									
1,2,4-Trichlorobenzene	0.07		0.005 U ²	--	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,2-Dichlorobenzene	0.60		0.005 U ²	--	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,3-Dichlorobenzene	0.60		0.005 U ²	--	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
1,4-Dichlorobenzene	0.075		0.005 U ²	--	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²	0.005 U ²
2,4,6-Trichlorophenol	0.03		--	0.01 U	--	--	--	0.01 U	--
2,4-Dichlorophenol	0.02		--	0.01 U	--	--	--	0.01 U	--
2,4-Dimethylphenol	0.70		--	0.01 U	--	--	--	0.01 U	--
2,4-Dinitrophenol	0.07		--	0.025 U	--	--	--	0.025 U	--
2,4-Dinitrotoluene	0.01		--	0.01 U	--	--	--	0.01 U	--
2,6-Dinitrotoluene	0.01		--	0.01 U	--	--	--	0.01 U	--
2-Chloronaphthalene	0.01		--	0.01 U	--	--	--	0.01 U	--
2-Chlorophenol	0.04		--	0.01 U	--	--	--	0.01 U	--
2-Nitrophenol	0.02		--	0.01 U	--	--	--	0.01 U	--
3,3-Dichlorobenzidine	0.02		--	0.01 U	--	--	--	0.01 U	--
4,6-Dinitro-2-methylphenol	0.02		--	0.01 U	--	--	--	0.01 U	--
4-Bromophenyl phenyl ether	0.01		--	0.01 U	--	--	--	0.01 U	--
4-Chloro-3-methylphenol	0.01		--	0.025 U ¹	--	--	--	0.025 U ¹	--
4-Chlorophenyl phenyl ether	0.01		--	0.01 U	--	--	--	0.01 U	--
4-Nitrophenol	0.06		--	0.025 U	--	--	--	0.025 U	--
Butyl benzyl phthalate	0.10		--	0.01 U	--	--	--	0.01 U	--
Bis(2-chloroethoxy)methane	0.01		--	0.01 U	--	--	--	0.01 U	--
Bis(2-chloroethyl)ether	0.01		--	0.01 U	--	--	--	0.01 U	--
Bis(2-chloroisopropyl)ether	0.01		--	0.01 U	--	--	--	0.01 U	--
Bis(2-ethylhexyl)phthalate	0.006		--	0.01 U ¹	--	--	--	0.01 U ¹	--
Diethyl phthalate	5.0		--	0.01 U ¹	--	--	--	0.01 U ¹	--
Dimethyl phthalate	400		--	0.01 U	--	--	--	0.01 U	--
Di-n-butyl phthalate	4.0		--	0.01 U	--	--	--	0.01 U	--
Di-n-octyl phthalate	0.7		--	0.01 U	--	--	--	0.01 U	--
Hexachlorobenzene	0.001		--	0.01 U ¹	--	--	--	0.01 U ¹	--
Hexachlorobutadiene	0.01		--	0.01 U	--	--	--	0.01 U	--
Hexachlorocyclopentadiene	0.05		--	0.01 U	--	--	--	0.01 U	--
Hexachloroethane	0.01		--	0.01 U	--	--	--	0.01 U	--



TABLE D.2.6
DATA SUMMARY - GROUNDWATER SAMPLE RESULTS
ANSLEY PIEDMONT - ATLANTA BELTLINE
ATLANTA, GEORGIA

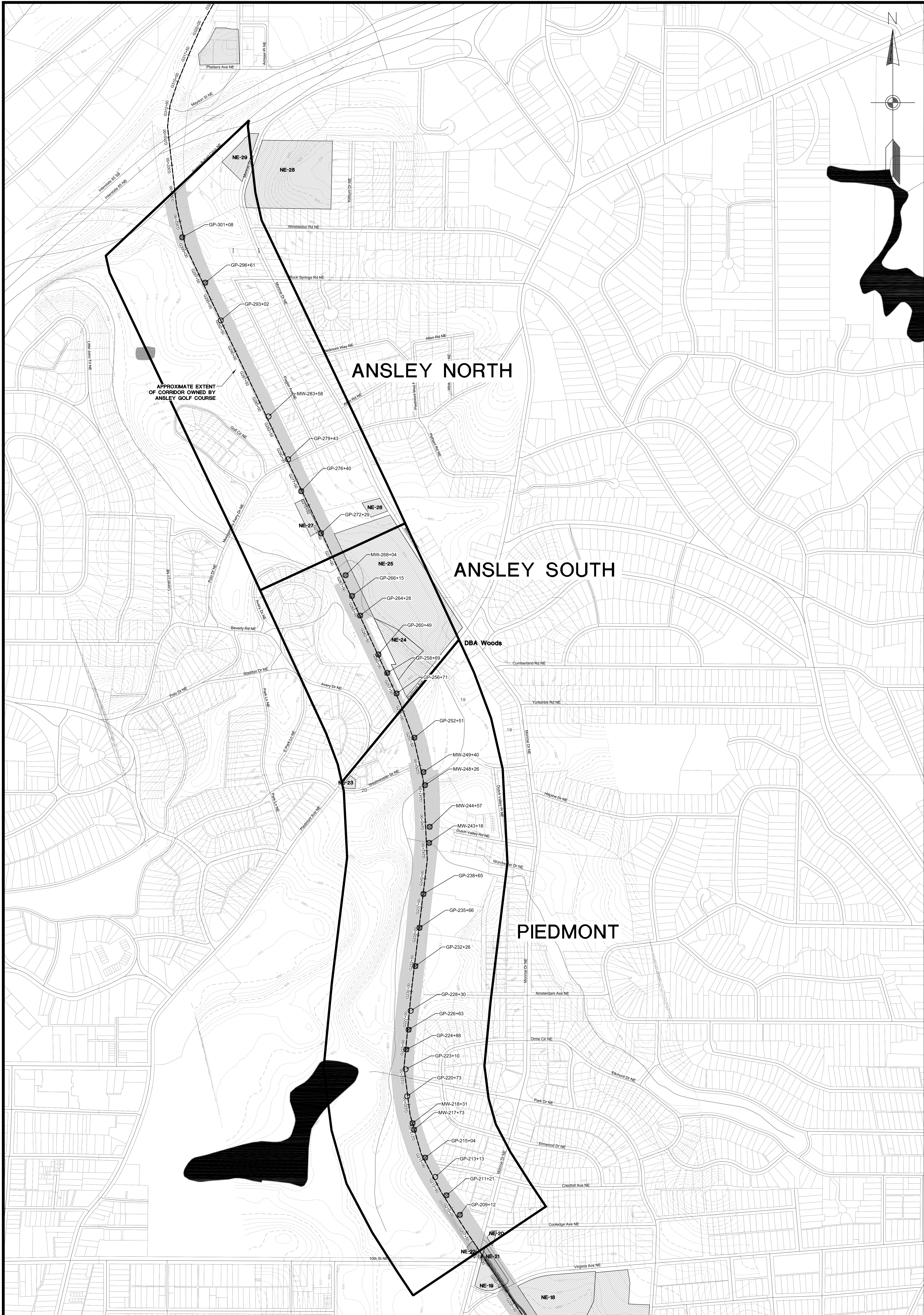
PARAMETER	Type 1/ Type 3 RRS (mg/L)	Sample ID:	TW-7	TW-7	TW-8	TW-9	MW-10	TW-12	TW-38					
		Sample Date:	12/6/2004	12/13/2004	12/6/2004	12/6/2004	12/13/2004	12/5/2004	12/7/2004					
		Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater					
		Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
Isophorone	0.10	--	--	0.01 U	--	--	--	0.01 U	--					
Nitrobenzene	0.02	--	--	0.01 U	--	--	--	0.01 U	--					
N-Nitrosodi-n-propylamine	0.01	--	--	0.01 U	--	--	--	0.01 U	--					
N-Nitrosodiphenylamine	0.01	--	--	0.01 U	--	--	--	0.01 U	--					
Pentachlorophenol	0.001	--	--	0.025 U ¹	--	--	--	0.025 U ¹	--					
Phenol	4.0	--	--	0.01 U	--	--	--	0.01 U	--					
Polycyclic Aromatic Hydrocarbons (PAHs)														
1-Methylnaphthalene	0.01	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
2-Methylnaphthalene	0.01	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Acenaphthene	2.0	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Acenaphthylene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Anthracene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Benzo(a)anthracene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Benzo(a)pyrene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Benzo(b)fluoranthene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Benzo(ghi)perylene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Benzo(k)fluoranthene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Chrysene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Dibenzo(a,h)anthracene	0.0003	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Fluoranthene	1.0	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Fluorene	1.0	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Indeno(1,2,3-cd)pyrene	0.0004	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Naphthalene	0.02	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Phenanthrene	0.0002	--	--	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	0.01 U ¹	--					
Pyrene	1.0	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--					
Metals			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Arsenic	0.01	--	0.05 U ¹	0.05 U ¹	--	--	--	--	0.05 U ¹	0.05 U ¹	--	--	--	--
Barium	2.0	--	0.183	0.136	--	--	--	--	0.0435	0.0374	--	--	--	--
Cadmium (Water)	0.005	--	0.005 U	0.005 U	--	--	--	--	0.005 U	0.005 U	--	--	--	--
Chromium, Total	0.10	--	0.01 U	0.01 U	--	--	--	--	0.01 U	0.01 U	--	--	--	--
Chromium III (Insoluble Salts)	0.10	--	0.01 U	0.01 U	--	--	--	--	0.01 U	0.01 U	--	--	--	--
Chromium VI (Particulates)	0.002	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015	--	0.01 U	0.01 U	--	--	--	--	0.01 U	0.01 U	--	--	--	--
Nickel	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.05	--	0.02 U	0.02 U	--	--	--	--	0.02 U	0.02 U	--	--	--	--
Silver	0.10	--	0.01 U	0.01 U	--	--	--	--	0.01 U	0.01 U	--	--	--	--
Zinc	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury, Total			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Mercury (Inorganic Salts)	0.002	--	0.0002 U	0.0002 U	--	--	--	--	0.0002 U	0.0002 U	--	--	--	--
Polychlorinated Biphenyls (PCBs)														
Aroclor-1016	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1221	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1232	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1242	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1248	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1254	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--
Aroclor-1260	0.001	--	--	--	0.001 U	--	--	--	--	--	--	--	--	--

Notes:
 = Exceeds Non-Residential RRS
 = RL exceeds Residential and/or Non-Residential RRS - Constituent was not detected.
¹ = MDLs were reviewed and found to be below the corresponding RRS for constituents that were non-detect with RLs greater than the RRS. Some RLs were elevated due to dilution.
² = These analytes were analyzed by Volatile Method SW8260B.
³ These analytes were reported from data collected prior to the development of the site RRS and analyte list for the Atlanta BeltLine in 2010.
Bold = Constituent has been detected at or above the reporting limit.
-- = Not Analyzed
J = Value listed is estimated based on associated QC data
JL = Value listed is estimated; possibly biased low or false positive based on QC data.
U = Constituent was not detected at the reporting limit
MDL = Method Detection Limit
mg/L = milligrams per liter
RL = Reporting Limit
RRS = Risk Reduction Standard

Prepared by/Date: JAH 04/21/15
Checked by/Date: DWK 04/21/15



Attachment D.3 Figures



LEGEND			
	TAX PARCELS		SOIL BORING LOCATION
	BELTLINE CORRIDOR		DIRECT PUSH BORING LOCATION
	PARCELS OF CONCERN		SOIL BORING/MONITORING WELL LOCATION
	SURFACE WATER		SOIL BORING LOCATION (MACTEC)
	BELTLINE		SOIL BORING/MONITORING WELL LOCATION (MACTEC)
	ROADS		SURFACE SAMPLE LOCATION (MACTEC)
			SOIL BORING/TEST WELL LOCATION (MACTEC)
			HAND AUGER LOCATION
			AEM SAMPLE LOCATIONS—COLLECTED BY AEM
			03/06—LOCATIONS APPROXIMATE—UNITS=us/Avg

0 300' 600'
SCALE: 1"=300'



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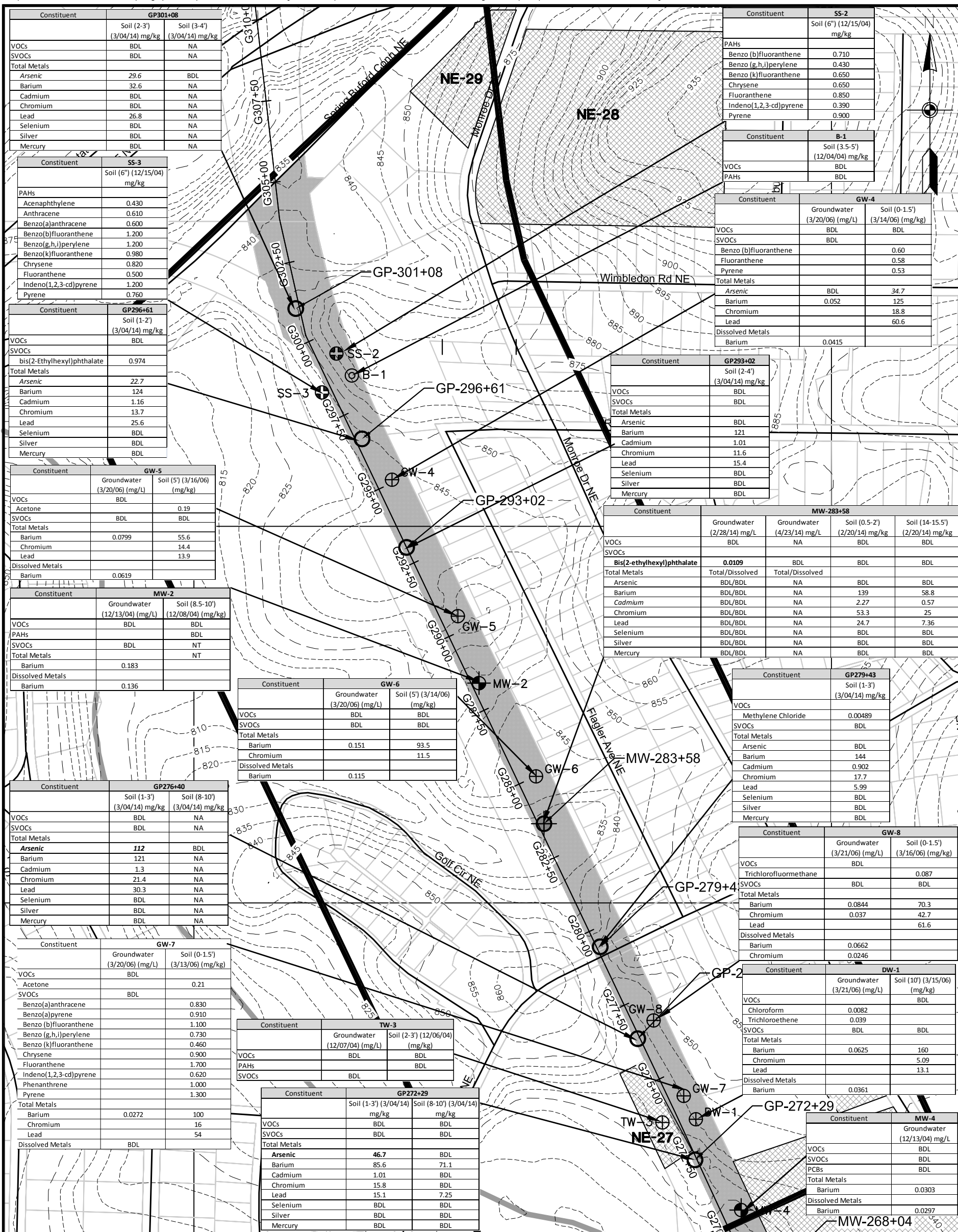
**SAMPLING AND ANALYSIS PLAN
NORTHEAST CORRIDOR**

JOB NO. 6121-09-0448

FIGURE
D.3.1

PREPARED BY/DATE

CHECKED BY/DATE



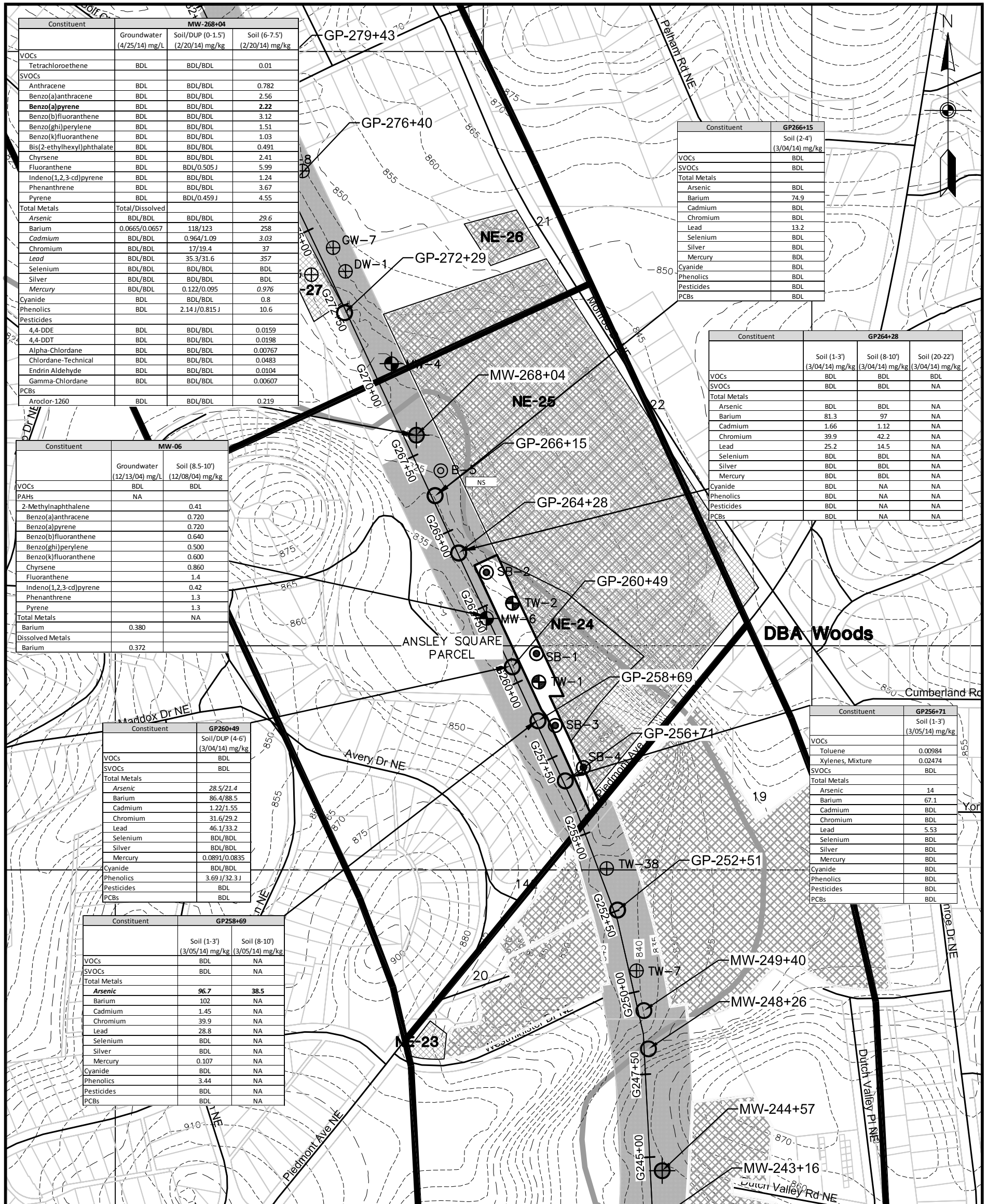
LEGEND

- TAX PARCELS
- PROPERTY BOUNDARY
- BELTLINE CORRIDOR
- PARCELS OF CONCERN
- SURFACE WATER
- BELTLINE
- ROADS
- DIRECT PUSH BORING LOCATION
- BELTLINE TRACT DESIGNATION
- SOIL BORING/MONITORING WELL LOCATION
- SOIL BORING LOCATION (MACTEC)
- SOIL BORING/MONITORING WELL LOCATION (MACTEC)
- SOIL BORING/TEST WELL LOCATION (MACTEC)
- SURFACE SAMPLE LOCATION (MACTEC)

RESULTS IN ITALICS EXCEED RESIDENTIAL RRS
 RESULTS IN BOLD EXCEED NON-RESIDENTIAL RRS
 RESULTS IN ITALIC & BOLD EXCEED TYPE 5 RRS
 BDL = BELOW DETECTION LIMIT
 NA = NOT ANALYZED
 NS = NOT SAMPLED

0 300' 600'
 SCALE: 1" = 300'

<p>Atlanta BeltLine ATLANTA BELTLINE, INC. 100 PEACHTREE STREET NW, SUITE 2300 ATLANTA, GA 30303</p>	<p>Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400</p>	<p>NE CORRIDOR NORTH - ANSLEY NORTH</p> <p>SOIL AND GROUNDWATER TESTING RESULTS</p> <p>JOB NO. 6121-13-0278</p>
		<p>FIGURE D.3.2</p>



Constituent	MW-268+04		
	Groundwater (4/25/14) mg/L	Soil/DUP (0-1.5') (2/20/14) mg/kg	Soil (6-7.5') (2/20/14) mg/kg
VOCs			
Tetrachloroethene	BDL	BDL/BDL	0.01
SVOCs			
Anthracene	BDL	BDL/BDL	0.782
Benzo(a)anthracene	BDL	BDL/BDL	2.56
Benzo(a)pyrene	BDL	BDL/BDL	2.22
Benzo(b)fluoranthene	BDL	BDL/BDL	3.12
Benzo(ghi)perylene	BDL	BDL/BDL	1.51
Benzo(k)fluoranthene	BDL	BDL/BDL	1.03
Bis(2-ethylhexyl)phthalate	BDL	BDL/BDL	0.491
Chrysene	BDL	BDL/BDL	2.41
Fluoranthene	BDL	BDL/0.505 J	5.99
Indeno(1,2,3-cd)pyrene	BDL	BDL/BDL	1.24
Phenanthrene	BDL	BDL/BDL	3.67
Pyrene	BDL	BDL/0.459 J	4.55
Total Metals	Total/Dissolved		
Arsenic	BDL/BDL	BDL/BDL	29.6
Barium	0.0665/0.0657	118/123	258
Cadmium	BDL/BDL	0.964/1.09	3.03
Chromium	BDL/BDL	17/19.4	37
Lead	BDL/BDL	35.3/31.6	357
Selenium	BDL/BDL	BDL/BDL	BDL
Silver	BDL/BDL	BDL/BDL	BDL
Mercury	BDL/BDL	0.122/0.095	0.976
Cyanide	BDL	BDL/BDL	0.8
Phenolics	BDL	2.14 J/0.815 J	10.6
Pesticides			
4,4-DDE	BDL	BDL/BDL	0.0159
4,4-DDT	BDL	BDL/BDL	0.0198
Alpha-Chlordane	BDL	BDL/BDL	0.00767
Chlordane-Technical	BDL	BDL/BDL	0.0483
Endrin Aldehyde	BDL	BDL/BDL	0.0104
Gamma-Chlordane	BDL	BDL/BDL	0.00607
PCBs			
Aroclor-1260	BDL	BDL/BDL	0.219

Constituent	GP266+15
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	BDL
Barium	74.9
Cadmium	BDL
Chromium	BDL
Lead	13.2
Selenium	BDL
Silver	BDL
Mercury	BDL
Cyanide	BDL
Phenolics	BDL
Pesticides	BDL
PCBs	BDL

Constituent	GP264+28		
	Soil (1-3') (3/04/14) mg/kg	Soil (8-10') (3/04/14) mg/kg	Soil (20-22') (3/04/14) mg/kg
VOCs	BDL	BDL	BDL
SVOCs	BDL	BDL	NA
Total Metals			
Arsenic	BDL	BDL	NA
Barium	81.3	97	NA
Cadmium	1.66	1.12	NA
Chromium	39.9	42.2	NA
Lead	25.2	14.5	NA
Selenium	BDL	BDL	NA
Silver	BDL	BDL	NA
Mercury	BDL	BDL	NA
Cyanide	BDL	NA	NA
Phenolics	BDL	NA	NA
Pesticides	BDL	NA	NA
PCBs	BDL	NA	NA

Constituent	MW-06	
	Groundwater (12/13/04) mg/L	Soil (8.5-10') (12/08/04) mg/kg
VOCs	BDL	BDL
PAHs	NA	
2-Methylnaphthalene		0.41
Benzo(a)anthracene		0.720
Benzo(a)pyrene		0.720
Benzo(b)fluoranthene		0.640
Benzo(ghi)perylene		0.500
Benzo(k)fluoranthene		0.600
Chrysene		0.860
Fluoranthene		1.4
Indeno(1,2,3-cd)pyrene		0.42
Phenanthrene		1.3
Pyrene		1.3
Total Metals		NA
Barium	0.380	
Dissolved Metals		
Barium	0.372	

Constituent	GP260+49	
	Soil/DUP (4-6') (3/04/14) mg/kg	
VOCs	BDL	
SVOCs	BDL	
Total Metals		
Arsenic	28.5/21.4	
Barium	86.4/88.5	
Cadmium	1.22/1.55	
Chromium	31.6/29.2	
Lead	46.1/33.2	
Selenium	BDL/BDL	
Silver	BDL/BDL	
Mercury	0.0891/0.0835	
Cyanide	BDL/BDL	
Phenolics	3.69 J/32.3 J	
Pesticides	BDL	
PCBs	BDL	

Constituent	GP258+69	
	Soil (1-3') (3/05/14) mg/kg	Soil (8-10') (3/05/14) mg/kg
VOCs	BDL	NA
SVOCs	BDL	NA
Total Metals		
Arsenic	96.7	38.5
Barium	102	NA
Cadmium	1.45	NA
Chromium	39.9	NA
Lead	28.8	NA
Selenium	BDL	NA
Silver	BDL	NA
Mercury	0.107	NA
Cyanide	BDL	NA
Phenolics	3.44	NA
Pesticides	BDL	NA
PCBs	BDL	NA

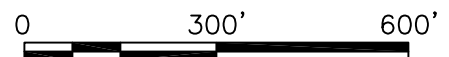
Constituent	GP256+71	
	Soil (1-3') (3/05/14) mg/kg	
VOCs		
Toluene		0.00984
Xylenes, Mixture		0.02474
SVOCs		BDL
Total Metals		
Arsenic		14
Barium		67.1
Cadmium		BDL
Chromium		BDL
Lead		5.53
Selenium		BDL
Silver		BDL
Mercury		BDL
Cyanide		BDL
Phenolics		BDL
Pesticides		BDL
PCBs		BDL

PARCELS OF CONCERN	
ISSUE NO.	ISSUE
NE-24	LEATHER CLEANING SHOP AND PIEDMONT CLEANING CENTER, EXISTING.
NE-25	FORMER UN-PERMITTED LANDFILL. STATE NOTIFIER FOR RELEASE TO GROUNDWATER. IN OPERATION 1970s TO PRESENT. ANSLEY MALL SHOPPING CENTER.
NE-26	DRY CLEANING FACILITY. HAZARDOUS WASTE GENERATOR. IN OPERATION 1970s TO PRESENT. NORMAN'S ONE HOUR MARTINIZING.
NE-27	LEAKING UST SITE. RELEASE IN 1990. IN OPERATION 1980s TO PRESENT. ANSLEY GOLF CLUB.

LEGEND

- TAX PARCELS
- PROPERTY BOUNDARY
- BELTLINE CORRIDOR
- ▨ PARCELS OF CONCERN
- SURFACE WATER
- BELTLINE
- ROADS
- DIRECT PUSH BORING LOCATION
- BELTLINE TRACT DESIGNATION
- ⊕ SOIL BORING/MONITORING WELL LOCATION
- ⊙ SOIL BORING LOCATION (MACTEC)
- ⊕ SOIL BORING/MONITORING WELL LOCATION (MACTEC)
- ⊕ SOIL BORING/TEST WELL LOCATION (MACTEC)
- ⊕⊙ ENVIRON SOIL/MONITORING WELL LOCATION ANSLEY SQUARE PARCEL-2007

RESULTS IN ITALIC EXCEED RESIDENTIAL RRS
 RESULTS IN BOLD EXCEED NON-RESIDENTIAL RRS
 RESULTS IN ITALIC & BOLD EXCEED TYPE 5 RRS
 BDL = BELOW DETECTION LIMIT
 NA = NOT ANALYZED
 NS = NOT SAMPLED

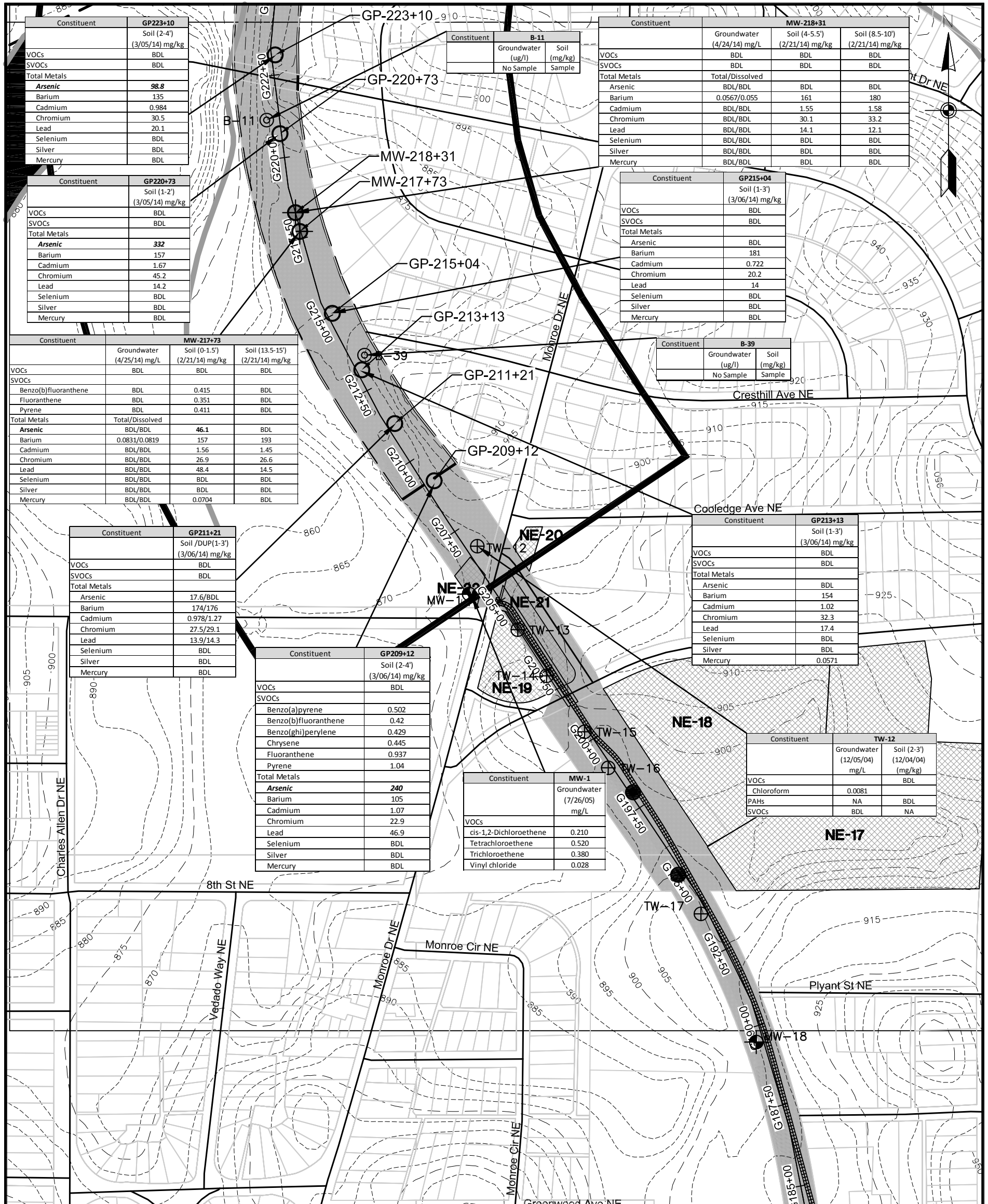


SCALE: 1" = 300'



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NE CORRIDOR NORTH - ASLEY SOUTH
 SOIL AND GROUNDWATER TESTING RESULTS
 FIGURE D.3.3
 JOB NO. 6121-13-0277



PARCELS OF CONCERN	
ISSUE NO.	ISSUE
NE-17	INDUSTRIAL PROPERTY SINCE 1910s, FORMER CREOSOTE PLANT, HAZARDOUS WASTE GENERATOR, LEAKING UST SITE, STATE NOTIFIER FOR RELEASE OF HAZARDOUS SUBSTANCES, GEORGIA POWER COMPANY.
NE-18	FORMER TROLLEY MAINTENANCE FACILITY WITH MACHINE SHOP, PRINT SHOP 1910s TO 1990s; CURRENTLY APARTMENT COMPLEX.
NE-19	DRY CLEANING FACILITY, HAZARDOUS WASTE GENERATOR.
NE-20	FILLING STATION 1920s TO 1970s.
NE-21	DRY CLEANING FACILITY, PROFESSIONAL CLEANERS, FORMER RITZ CLEANERS.
NE-22	DRY CLEANING FACILITY 1970s, ON-SITE.

RESULTS IN ITALICS EXCEED RESIDENTIAL RRS
 RESULTS IN BOLD EXCEED NON-RESIDENTIAL RRS
 RESULTS IN ITALIC & BOLD EXCEED TYPE 5 RRS
 BDL = BELOW DETECTION LIMIT
 NA = NOT ANALYZED
 NS = NOT SAMPLED

LEGEND

- TAX PARCELS
- PROPERTY BOUNDARY
- █ BELTLINE CORRIDOR
- ▨ PARCELS OF CONCERN
- SURFACE WATER
- BELTLINE
- ROADS
- DIRECT PUSH BORING LOCATION
- ⊕ BELTLINE TRACT DESIGNATION
- ⊙ SOIL BORING/MONITORING WELL LOCATION
- ⊗ SOIL BORING LOCATION (MACTEC)
- ⊕ SOIL BORING/MONITORING WELL LOCATION (MACTEC)
- ⊕ SOIL BORING/TEST WELL LOCATION (MACTEC)

0 150' 300'

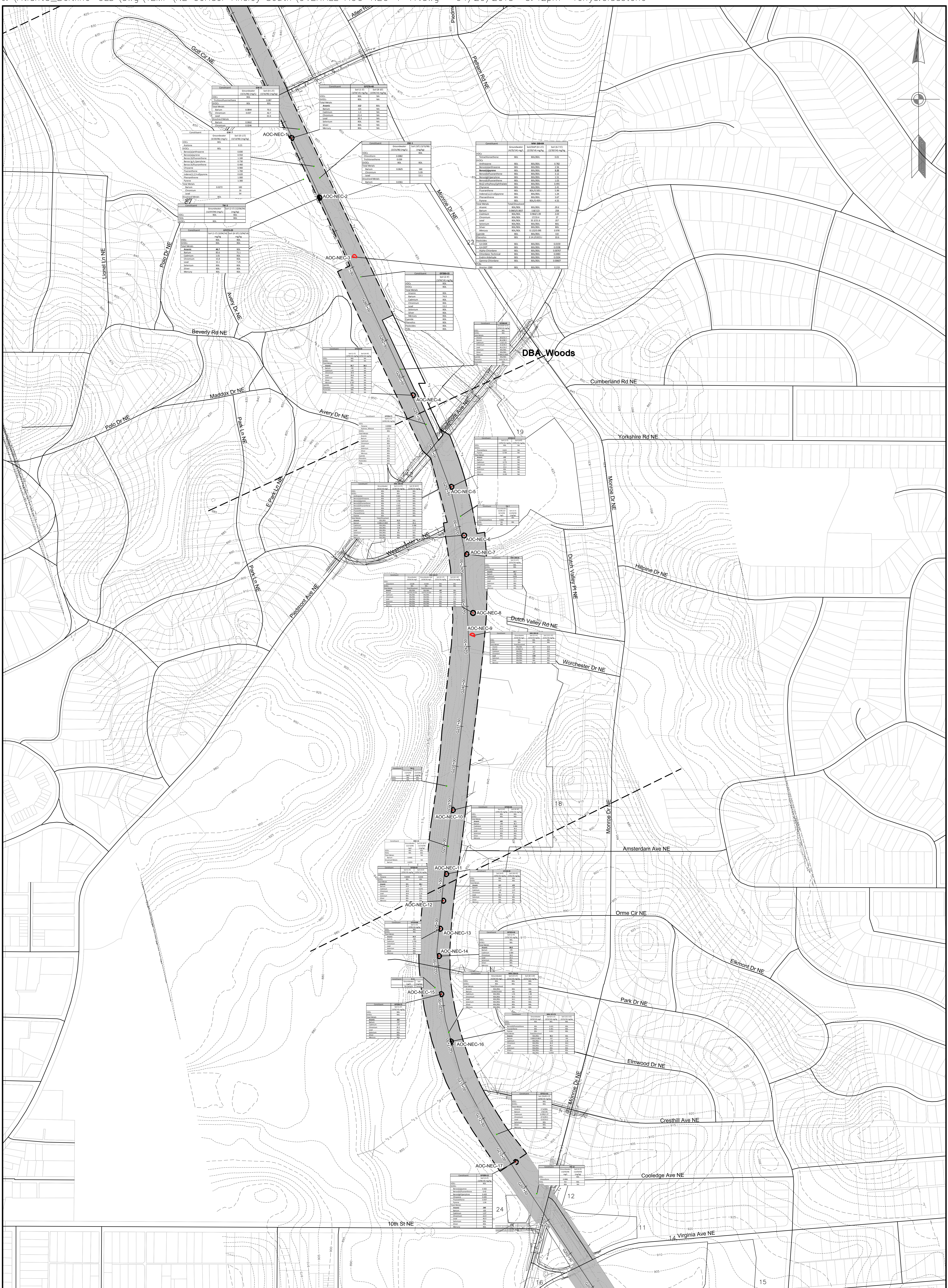
SCALE: 1"=150'

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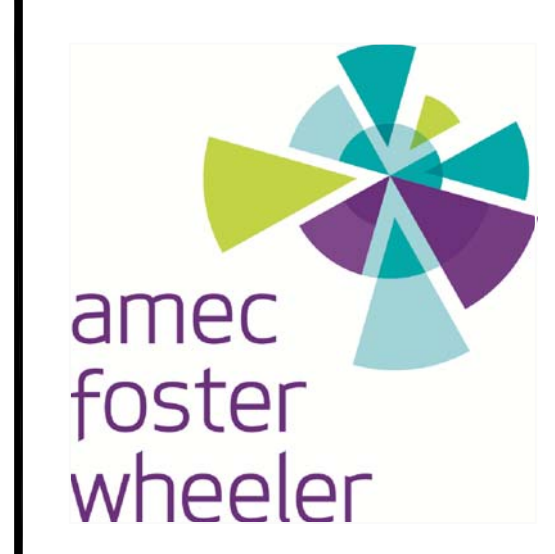
NE CORRIDOR NORTH - PIEDMONT
 SOIL AND GROUNDWATER TESTING RESULTS

JOB NO 121-13-0279 FIGURE D.3.4B



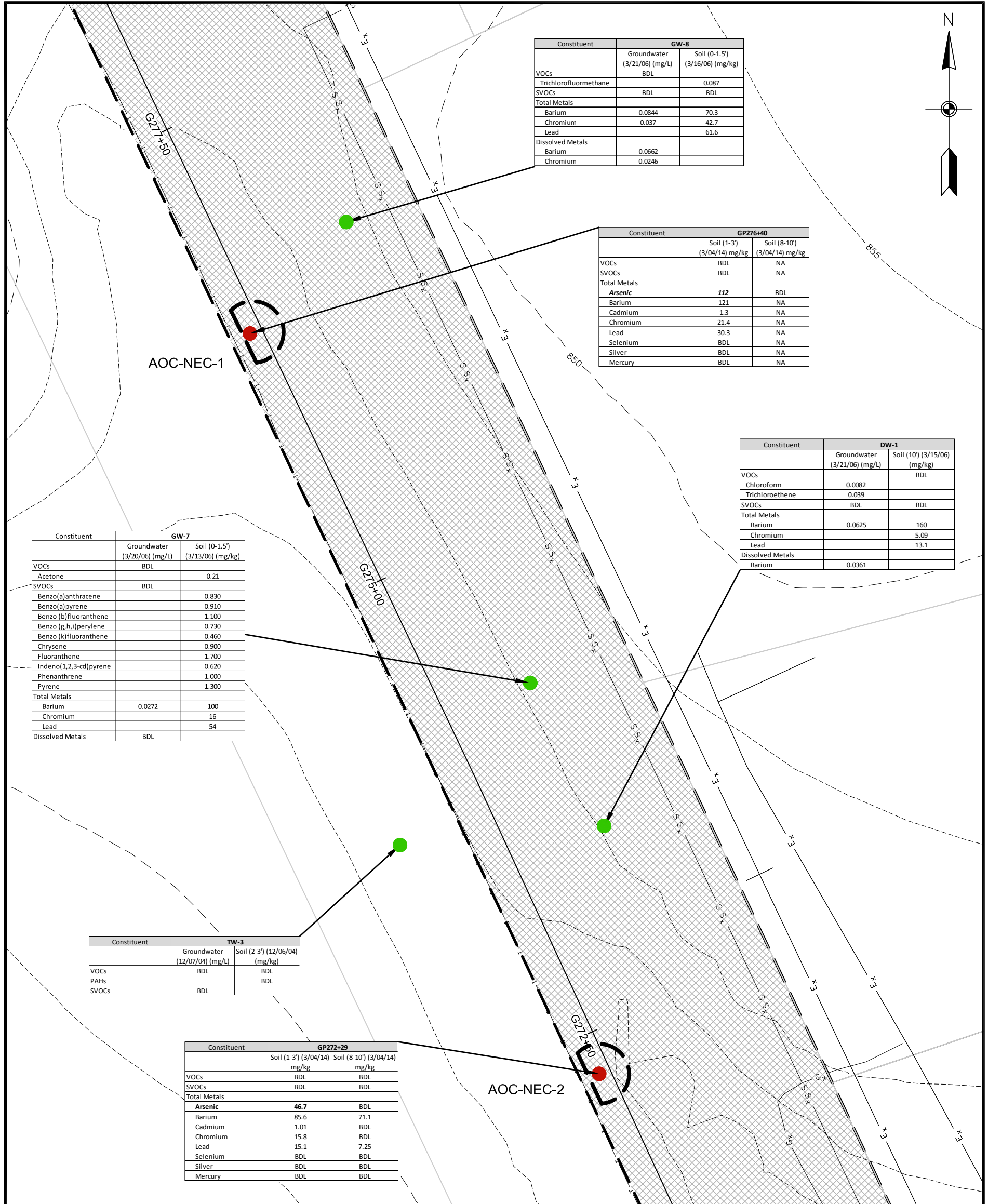
LEGEND	
	TAX PARCELS
	BELTLINE CORRIDOR
	SURFACE WATER
	BELTLINE
	ROADS
	ANSLEY SQUARE PARCEL
	SAMPLE LOCATIONS - PASSED
	SAMPLE LOCATIONS - FAILED
	CONTOUR LINE
	STORMWATER
	OVERHEAD POWER
	GAS
	FIBEROPTICS
	WATER
	UNDERGROUND POWER
	SANITARY SEWER
	PROPERTY BOUNDARY
	ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

0 200' 400'
SCALE: 1"=200'



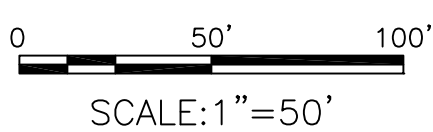
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ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-1 THROUGH AOC-NEC-17
JOB NO. 6121-13-0279
FIGURE D.7



LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



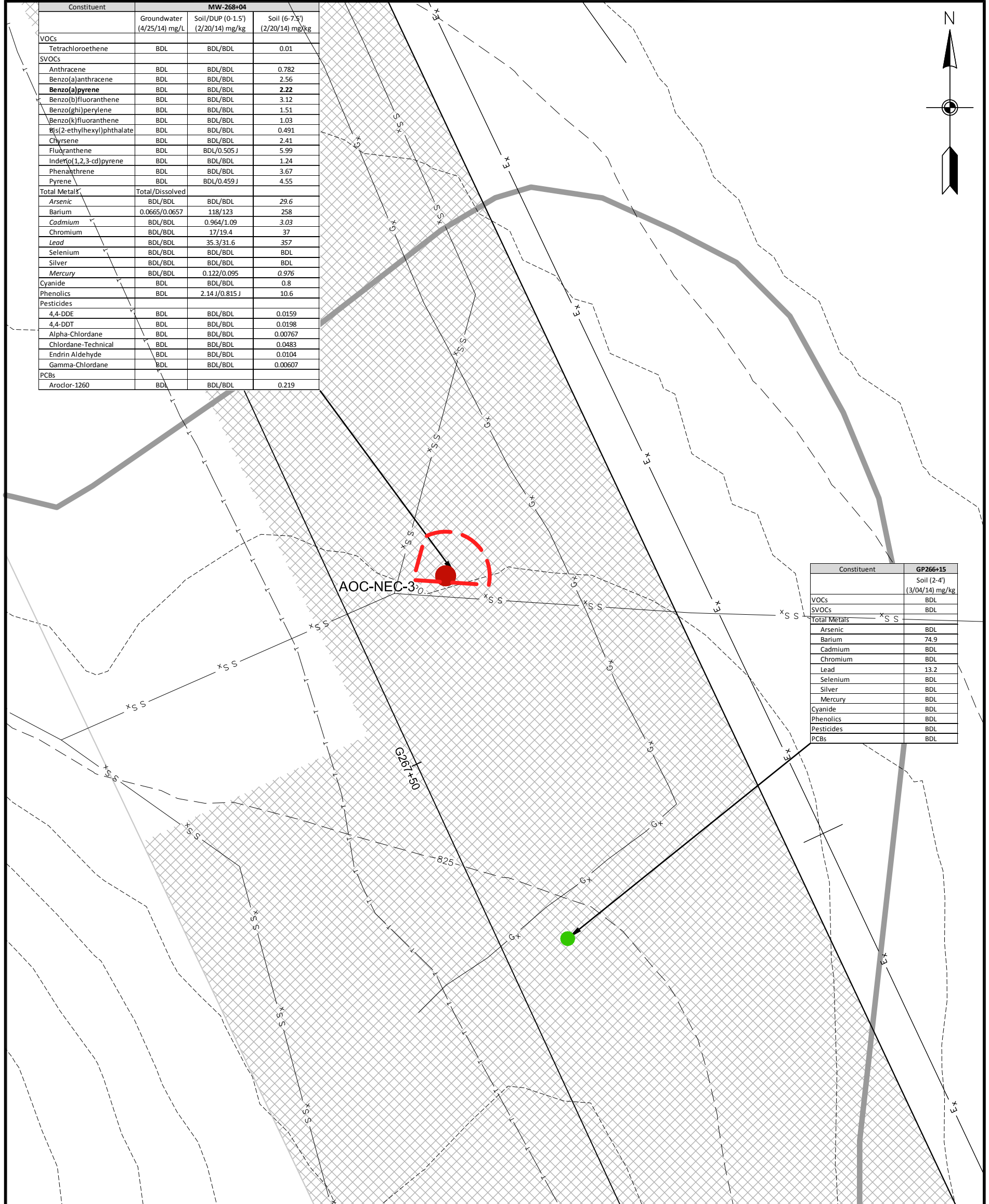
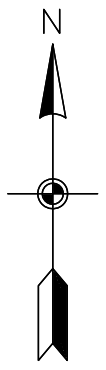
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NE CORRIDOR NORTH - ANSLEY NORTH
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-1 AND 2
JOB NO. 6121-13-0278
FIGURE D.7.1

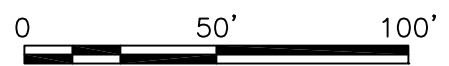
Constituent	MW-268+04		
	Groundwater (4/25/14) mg/L	Soil/DUP (0-1.5') (2/20/14) mg/kg	Soil (6-7.5') (2/20/14) mg/kg
VOCs			
Tetrachloroethene	BDL	BDL/BDL	0.01
SVOCs			
Anthracene	BDL	BDL/BDL	0.782
Benzo(a)anthracene	BDL	BDL/BDL	2.56
Benzo(a)pyrene	BDL	BDL/BDL	2.22
Benzo(b)fluoranthene	BDL	BDL/BDL	3.12
Benzo(ghi)perylene	BDL	BDL/BDL	1.51
Benzo(k)fluoranthene	BDL	BDL/BDL	1.03
Bis(2-ethylhexyl)phthalate	BDL	BDL/BDL	0.491
Chrysene	BDL	BDL/BDL	2.41
Fluoranthene	BDL	BDL/0.505 J	5.99
Indeno(1,2,3-cd)pyrene	BDL	BDL/BDL	1.24
Phenanthrene	BDL	BDL/BDL	3.67
Pyrene	BDL	BDL/0.459 J	4.55
Total Metals			
Arsenic	BDL/BDL	BDL/BDL	29.6
Barium	0.0665/0.0657	118/123	258
Cadmium	BDL/BDL	0.964/1.09	3.03
Chromium	BDL/BDL	17/19.4	37
Lead	BDL/BDL	35.3/31.6	357
Selenium	BDL/BDL	BDL/BDL	BDL
Silver	BDL/BDL	BDL/BDL	BDL
Mercury	BDL/BDL	0.122/0.095	0.976
Cyanide	BDL	BDL/BDL	0.8
Phenolics	BDL	2.14 J/0.815 J	10.6
Pesticides			
4,4-DDE	BDL	BDL/BDL	0.0159
4,4-DDT	BDL	BDL/BDL	0.0198
Alpha-Chlordane	BDL	BDL/BDL	0.00767
Chlordane-Technical	BDL	BDL/BDL	0.0483
Endrin Aldehyde	BDL	BDL/BDL	0.0104
Gamma-Chlordane	BDL	BDL/BDL	0.00607
PCBs			
Aroclor-1260	BDL	BDL/BDL	0.219



Constituent	GP266+15 Soil (2-4') (3/04/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	BDL
Arsenic	BDL
Barium	74.9
Cadmium	BDL
Chromium	BDL
Lead	13.2
Selenium	BDL
Silver	BDL
Mercury	BDL
Cyanide	BDL
Phenolics	BDL
Pesticides	BDL
PCBs	BDL

LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- BENZO(A)PYRENE = ESTIMATED LIMITS OF EXCAVATION, ACTUAL LIMITS DETERMINED BY TESTING.



SCALE: 1" = 50'

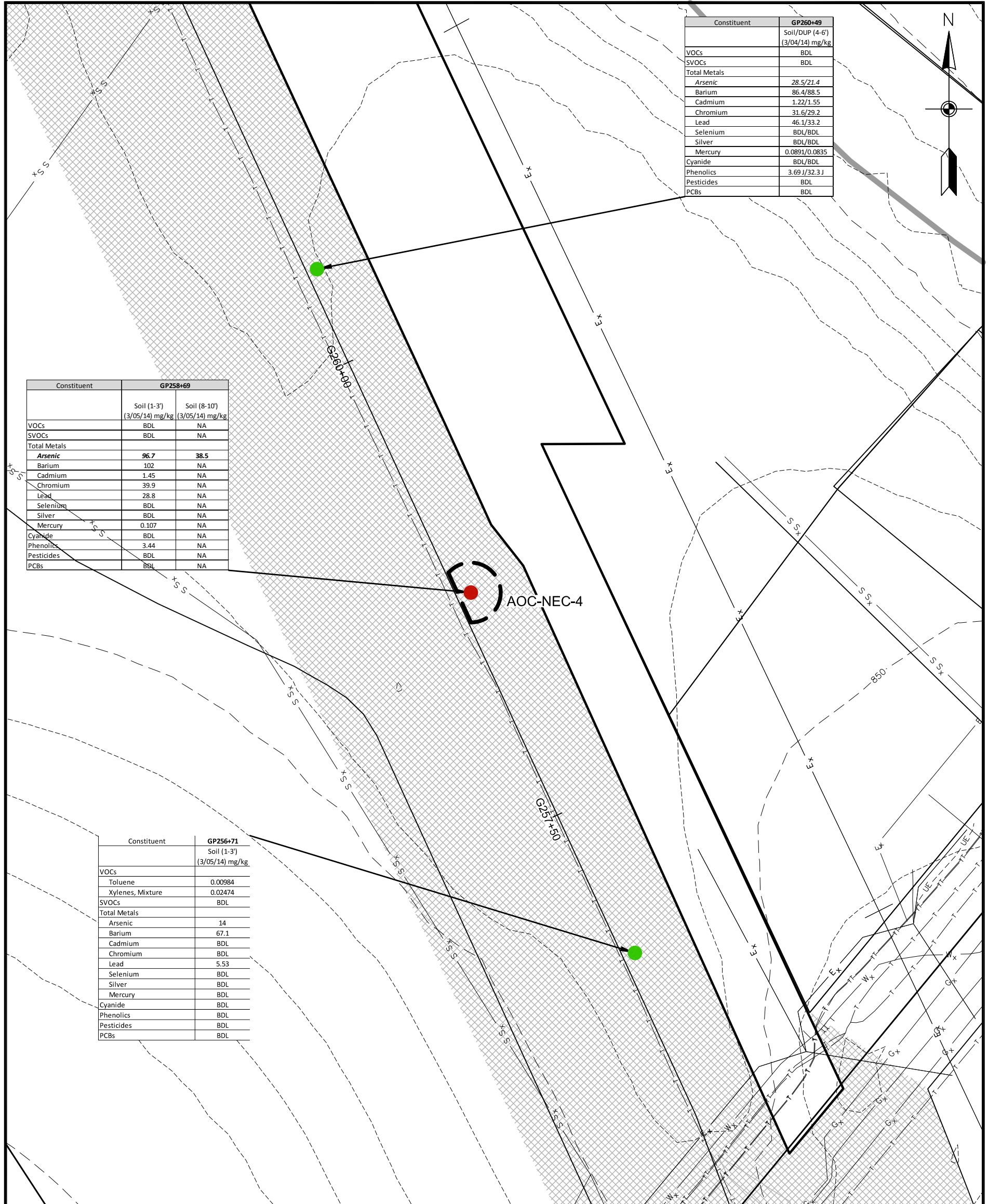


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NE CORRIDOR NORTH - ASLEY SOUTH
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-3

JOB NO. 6121-13-0277

FIGURE
D.7.2



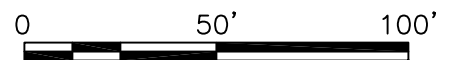
Constituent	GP260+49
	Soil/DUP (4-6') (3/04/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	28.5/21.4
Barium	86.4/88.5
Cadmium	1.22/1.55
Chromium	31.6/29.2
Lead	46.1/33.2
Selenium	BDL/BDL
Silver	BDL/BDL
Mercury	0.0891/0.0835
Cyanide	BDL/BDL
Phenolics	3.69/32.3 J
Pesticides	BDL
PCBs	BDL

Constituent	GP258+69	
	Soil (1-3') (3/05/14) mg/kg	Soil (8-10') (3/05/14) mg/kg
VOCs	BDL	NA
SVOCs	BDL	NA
Total Metals		
Arsenic	96.7	38.5
Barium	102	NA
Cadmium	1.45	NA
Chromium	39.9	NA
Lead	28.8	NA
Selenium	BDL	NA
Silver	BDL	NA
Mercury	0.107	NA
Cyanide	BDL	NA
Phenolics	3.44	NA
Pesticides	BDL	NA
PCBs	BDL	NA

Constituent	GP256+71
	Soil (1-3') (3/05/14) mg/kg
VOCs	
Toluene	0.00984
Xylenes, Mixture	0.02474
SVOCs	BDL
Total Metals	
Arsenic	14
Barium	67.1
Cadmium	BDL
Chromium	BDL
Lead	5.53
Selenium	BDL
Silver	BDL
Mercury	BDL
Cyanide	BDL
Phenolics	BDL
Pesticides	BDL
PCBs	BDL

LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS.



SCALE: 1" = 50'

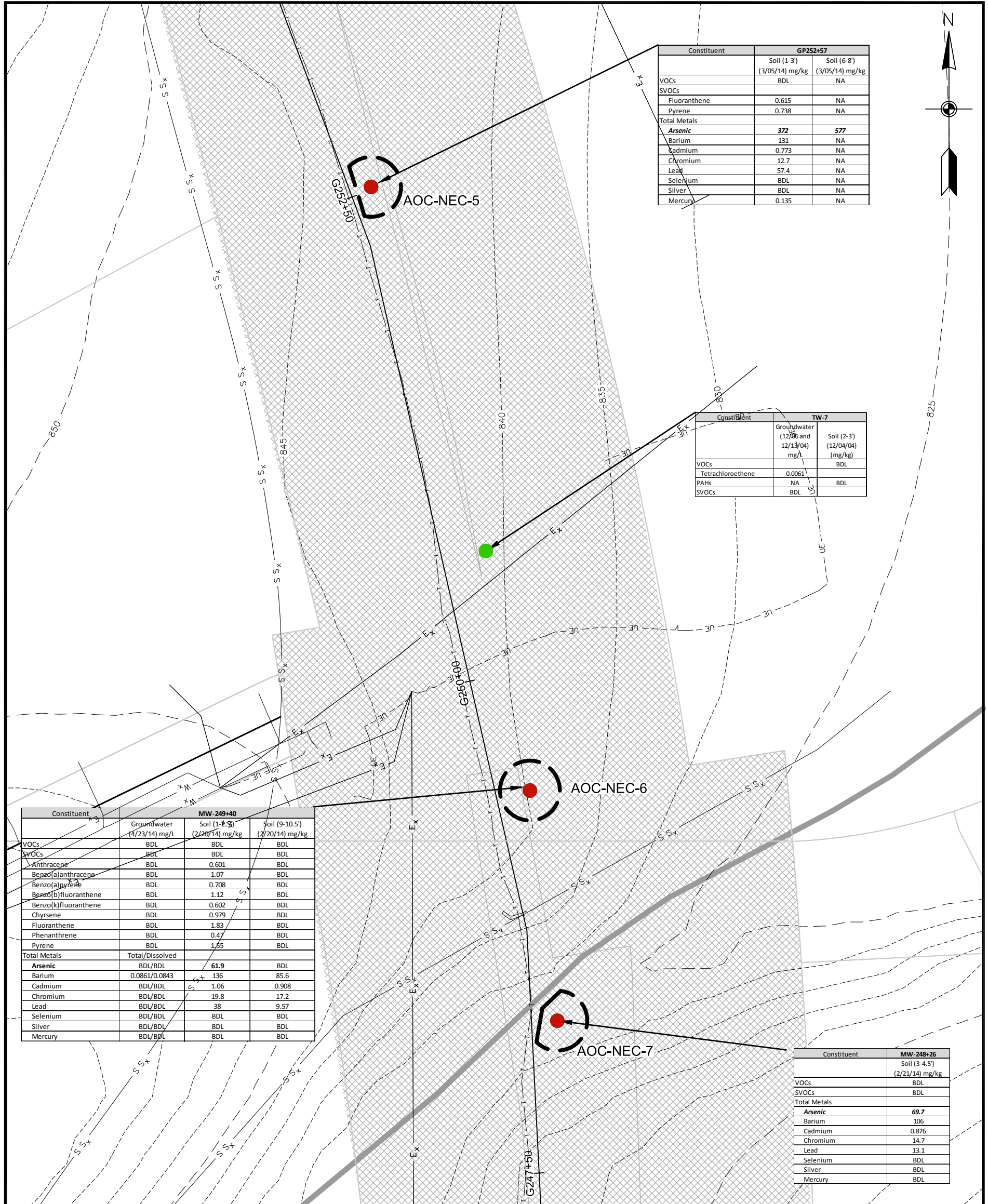


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NE CORRIDOR NORTH - ASLEY SOUTH
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-4

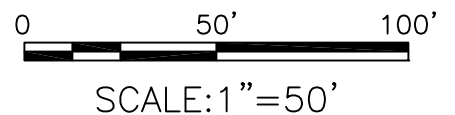
JOB NO. 6121-13-0277

FIGURE
D.7.3



LEGEND

- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS – PASSED
- SAMPLE LOCATIONS – FAILED
- CONTOUR LINE
- S_{Dx} — STORMWATER
- E_x — OVERHEAD POWER
- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S_{Sx} — SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

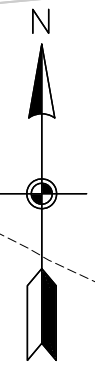


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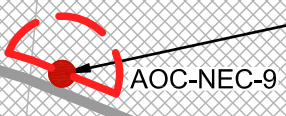
NE CORRIDOR NORTH – PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-5, 6, AND 7

JOB NO. 6121-13-0279

FIGURE
D.7.4



Constituent	MW-244+57			
	Groundwater (4/24/14) mg/L	Groundwater DUP (4/24/14) mg/L	Soil (0-1.5') (2/21/14) mg/kg	Soil (8.5-10') (2/21/14) mg/kg
VOCs				
Chloroform	0.0128	0.0128	BDL	BDL
SVOCs	BDL	BDL	BDL	BDL
Total Metals	Total/Dissolved	Total/Dissolved		
Arsenic	BDL/BDL	BDL/BDL	107	BDL
Barium	0.0739/0.073	0.0773/0.075	109	88.6
Cadmium	BDL/BDL	BDL/BDL	1.1	1.07
Chromium	BDL/BDL	BDL/BDL	29.6	13.1
Lead	BDL/BDL	BDL/BDL	8.41	9.31
Selenium	BDL/BDL	BDL/BDL	BDL	BDL
Silver	BDL/BDL	BDL/BDL	BDL	BDL
Mercury	BDL/BDL	BDL/BDL	BDL	BDL



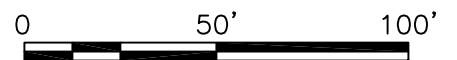
Constituent	MW-243+16		
	Groundwater (4/24/14) mg/L	Soil (2.5-4') (2/21/14) mg/kg	Soil (13.5-15') (2/21/14) mg/kg
VOCs	BDL	BDL	BDL
SVOCs	BDL	BDL	BDL
Total Metals	Total/Dissolved		
Arsenic	BDL/BDL	20.7	8.62
Barium	0.118/0.11	111	42.6
Cadmium	BDL/BDL	3.25	BDL
Chromium	BDL/BDL	187	14.1
Lead	BDL/BDL	1340	7.43
Selenium	BDL/BDL	BDL	BDL
Silver	BDL/BDL	BDL	BDL
Mercury	BDL/BDL	0.161	BDL

LEGEND

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- SAMPLE LOCATIONS - FAILED
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- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY

ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

LEAD = ESTIMATED LIMITS OF EXCAVATION, ACTUAL LIMITS DETERMINED BY TESTING.

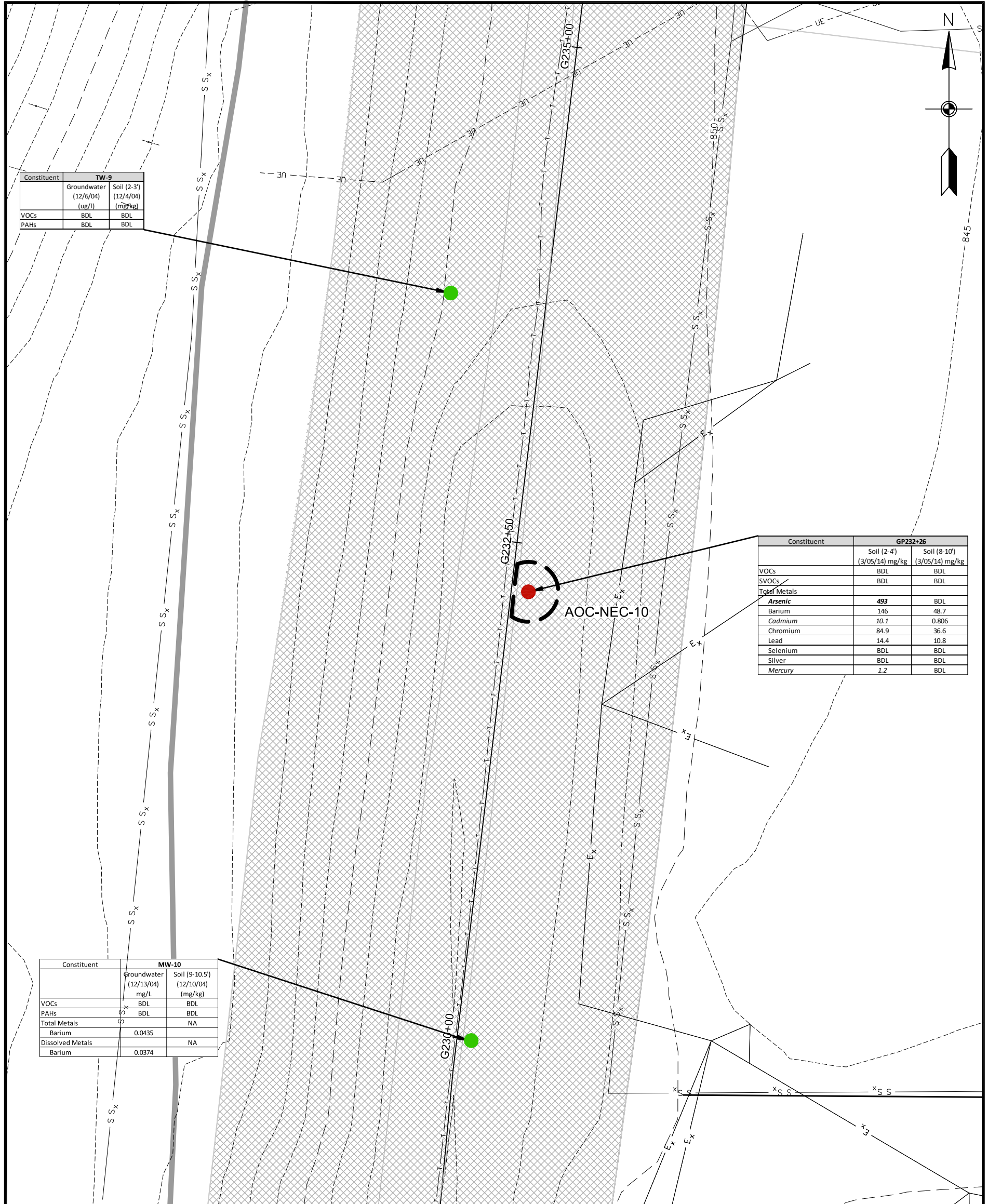


SCALE: 1" = 50'



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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-8 AND 9
JOB NO. 6121-13-0279
FIGURE D.7.5



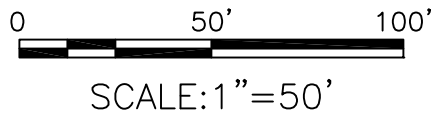
Constituent	TW-9	
	Groundwater (12/6/04) (ug/l)	Soil (2-3') (12/4/04) (mg/kg)
VOCs	BDL	BDL
PAHs	BDL	BDL

Constituent	GP232+26	
	Soil (2-4') (3/05/14) mg/kg	Soil (8-10') (3/05/14) mg/kg
VOCs	BDL	BDL
SVOCs	BDL	BDL
Total Metals		
Arsenic	493	BDL
Barium	146	48.7
Cadmium	10.1	0.806
Chromium	84.9	36.6
Lead	14.4	10.8
Selenium	BDL	BDL
Silver	BDL	BDL
Mercury	1.2	BDL

Constituent	MW-10	
	Groundwater (12/13/04) mg/L	Soil (9-10.5') (12/10/04) (mg/kg)
VOCs	BDL	BDL
PAHs	BDL	BDL
Total Metals		NA
Barium	0.0435	
Dissolved Metals		NA
Barium	0.0374	

LEGEND

- TAX PARCELS
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- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
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- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

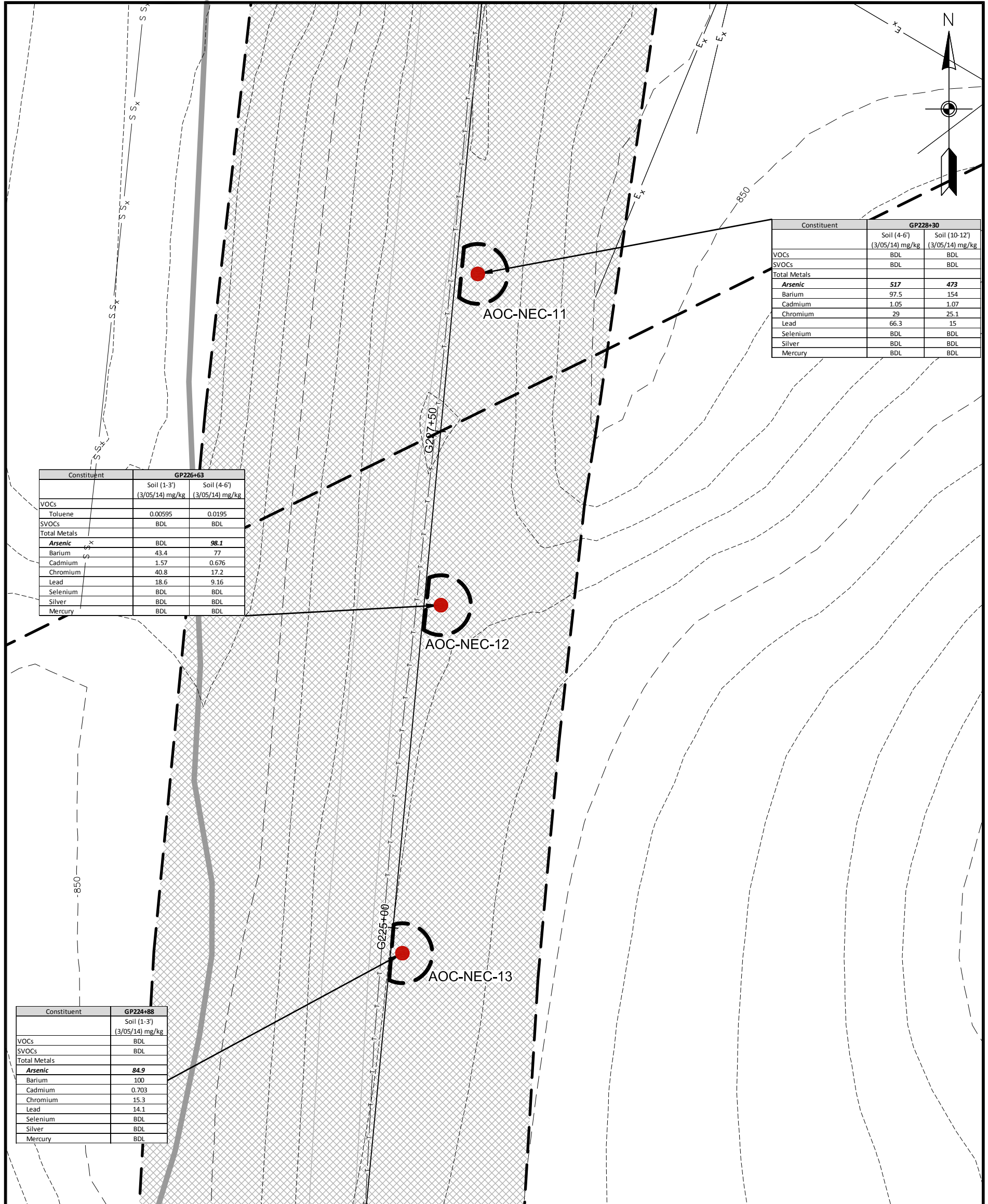


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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-10
JOB NO. 6121-13-0279
FIGURE D.7.6



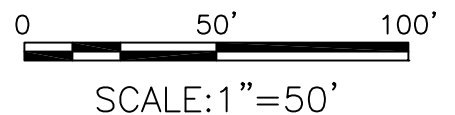
Constituent	GP228+30	
	Soil (4-6') (3/05/14) mg/kg	Soil (10-12') (3/05/14) mg/kg
VOCs	BDL	BDL
SVOCs	BDL	BDL
Total Metals		
Arsenic	517	473
Barium	97.5	154
Cadmium	1.05	1.07
Chromium	29	25.1
Lead	66.3	15
Selenium	BDL	BDL
Silver	BDL	BDL
Mercury	BDL	BDL

Constituent	GP226+63	
	Soil (1-3') (3/05/14) mg/kg	Soil (4-6') (3/05/14) mg/kg
VOCs		
Toluene	0.00595	0.0195
SVOCs	BDL	BDL
Total Metals		
Arsenic	BDL	98.1
Barium	43.4	77
Cadmium	1.57	0.676
Chromium	40.8	17.2
Lead	18.6	9.16
Selenium	BDL	BDL
Silver	BDL	BDL
Mercury	BDL	BDL

Constituent	GP224+88
	Soil (1-3') (3/05/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	84.9
Barium	100
Cadmium	0.703
Chromium	15.3
Lead	14.1
Selenium	BDL
Silver	BDL
Mercury	BDL

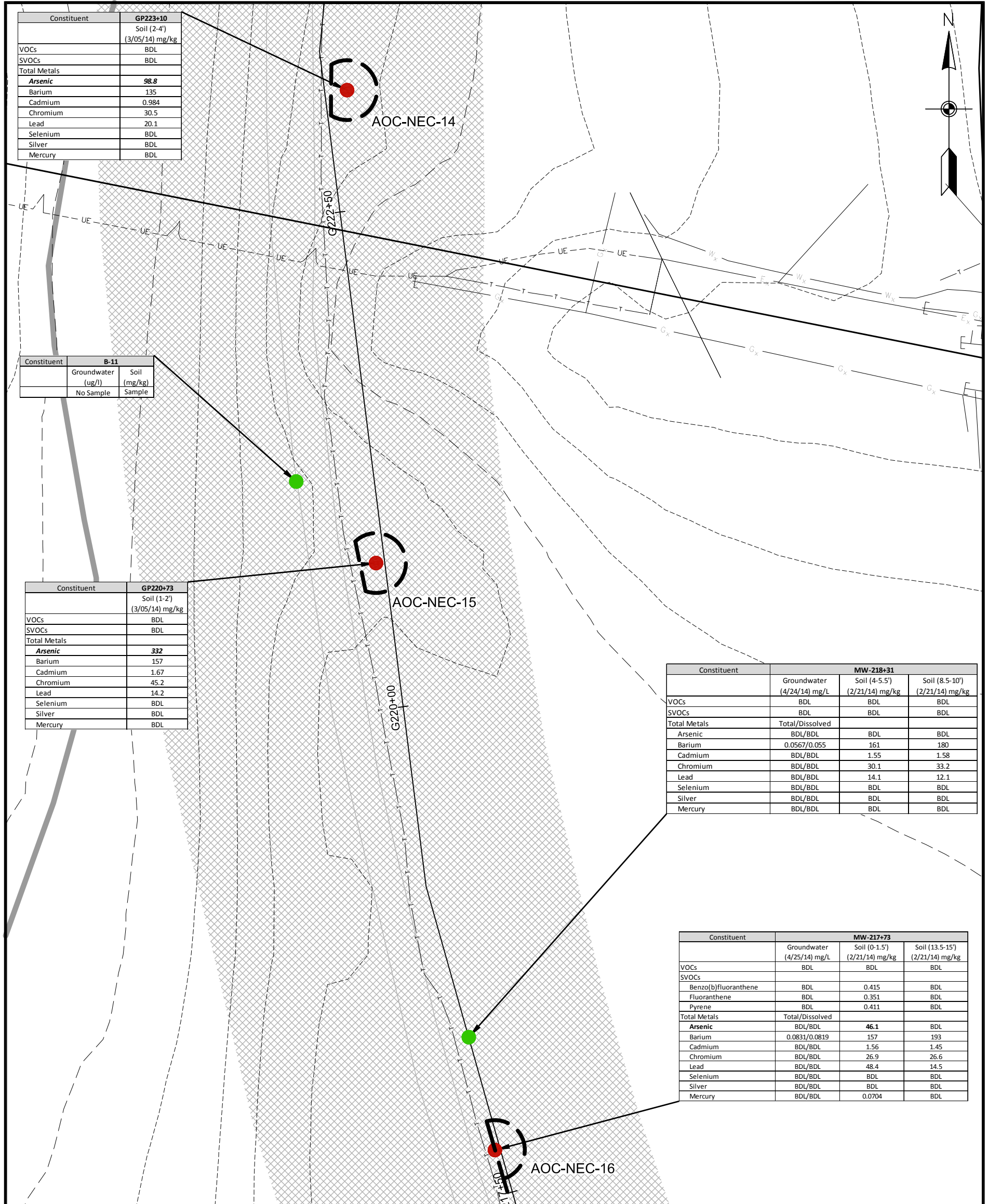
LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



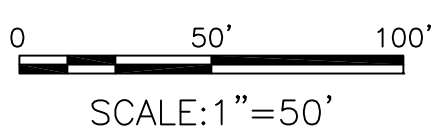
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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-11, 12, AND 13
JOB NO. 6121-13-0279
FIGURE D.7.7



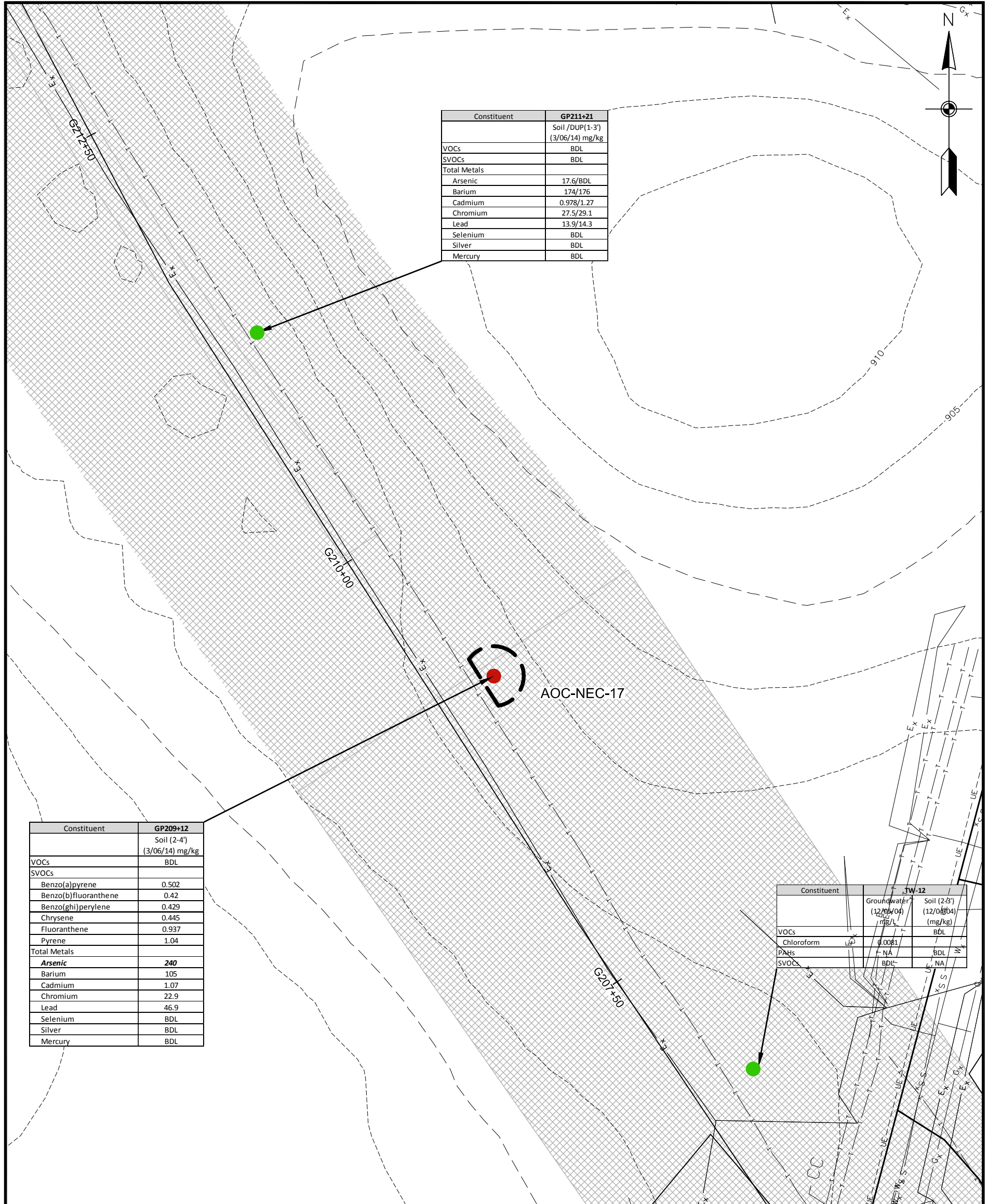
LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
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- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



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NE CORRIDOR NORTH - PIEDMONT
 ESTIMATED LIMITS OF EXCAVATION
 AOC-NEC - 14, 15, AND 16
 JOB NO. 6121-13-0279
 FIGURE D.7.8



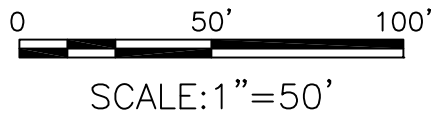
Constituent	GP211+21
	Soil /DUP(1-3') (3/06/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	17.6/BDL
Barium	174/176
Cadmium	0.978/1.27
Chromium	27.5/29.1
Lead	13.9/14.3
Selenium	BDL
Silver	BDL
Mercury	BDL

Constituent	GP209+12
	Soil (2-4') (3/06/14) mg/kg
VOCs	BDL
SVOCs	
Benzo(a)pyrene	0.502
Benzo(b)fluoranthene	0.42
Benzo(ghi)perylene	0.429
Chrysene	0.445
Fluoranthene	0.937
Pyrene	1.04
Total Metals	
Arsenic	240
Barium	105
Cadmium	1.07
Chromium	22.9
Lead	46.9
Selenium	BDL
Silver	BDL
Mercury	BDL

Constituent	TW-12	
	Groundwater (12/06/04) mg/L	Soil (2-3') (12/06/04) (mg/kg)
VOCs		BDL
Chloroform	0.0081	
PAHs	NA	BDL
SVOCs	BDL	NA

LEGEND

- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS – PASSED
- SAMPLE LOCATIONS – FAILED
- CONTOUR LINE
- S D_x — STORMWATER
- E_x — OVERHEAD POWER
- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S S_x — SANITARY SEWER
- — — — — PROPERTY BOUNDARY
- ⊖ ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



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NE CORRIDOR NORTH – PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-17
JOB NO. 6121-13-0279
FIGURE D.7.9

Arsenic Impacted Soil to be Excavated and Transported Off-Site for Disposal

Post-grading, Soil will be tested in the top one foot on a 1/2 acre sampling area to ensure a one foot soil barrier.

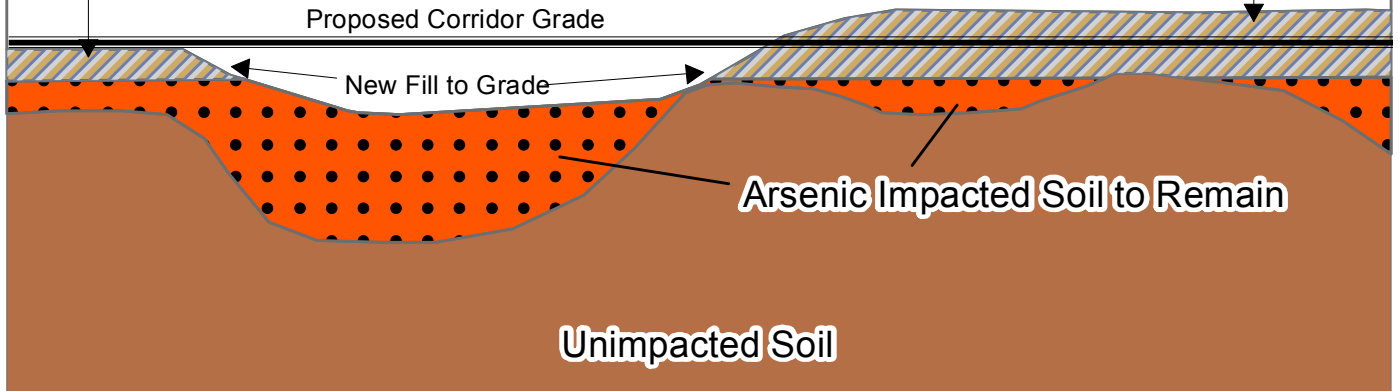
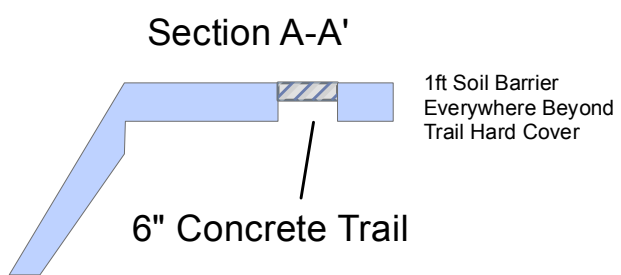
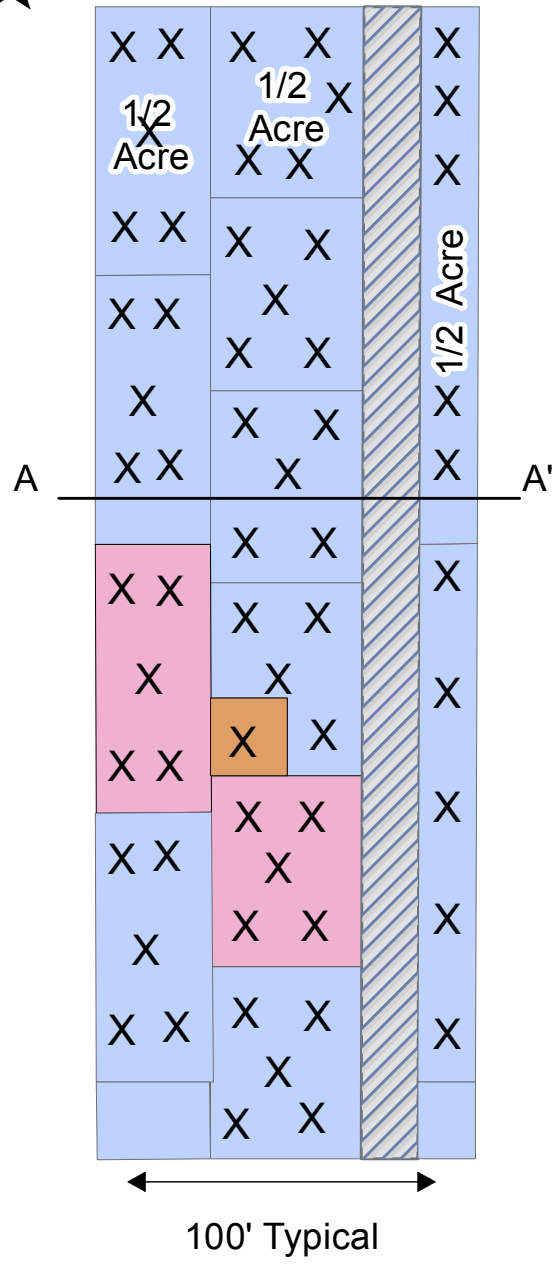


IMAGE IS NOT TO SCALE



IMAGES ARE NOT TO SCALE

Legend

- Concrete Trail
- Typical 1/2 Acre Soil Barrier Sampling Area
- Random Selected Locations for 5 Point Composite Samples Per 1/2 Acre Sampling Area
- Soil Barrier Replaced by Clean Soil Based on Results of Composite Samples on a Full 1/2 Acre
- Soil Barrier Replaced on Only Part of 1/2 Acre Sampling Area Based on Testing of Point Samples



Typical Plan View & Cross-Section of Soil Barrier
Atlanta Beltline -NE-Corridor



APPENDIX D.4 TYPE 5 ARSENIC EXPOSURE ASSESSMENT

The following discussion was excerpted from Appendix B.4 of CAP Amendment #2 and modified as needed for Appendix D.4.

Introduction

Current sampling results have indicated concentrations of arsenic along the Atlanta Beltline Northeast Corridor that exceed background levels, and are believed to be associated with historic use of arsenical pesticides along the railway. The detection of arsenic does not indicate a current complete exposure pathway, particularly if the arsenic is detected below ground surface. Also, the presence of underground utilities within and parallel to the alignment of the former rail corridor, particularly the fiber optic cables, will impede excavation in some areas to the extent of impracticability. As the development of the Northeast Corridor Project (“project”) moves forward, specific areas will be graded and covered by soil, paving, and support structures or other engineered features, limiting future exposure to soil. During construction of the project, construction/utility workers will work in accordance with an Environmental Management Plan (EMP) as well as site-specific Health and Safety Plans (HSP) prepared by employers of the workers.

For those areas where soils remain at the surface and are not covered or are brought to the surface during grading, composite soil sampling for every 0.5-acre sampling unit will be completed in order to evaluate future exposure point concentrations for arsenic. For those areas where arsenic is left in place in the subsurface after trail construction, institutional controls will be applied in order to protect potentially exposed future workers and users. This will initially take the form of a Monitoring and Maintenance Plan (MMP) during the interim period before the transit corridor is completed and a final institutional control contemplated as an Environmental Covenant.

Exposure Assessment

Based on redevelopment and the future land use of the Atlanta Beltline Northeast Corridor, potential receptors may include construction and utility workers, recreational users, and landscaper/lawn mowers. The exposure assumptions used for construction/utility workers are summarized on Table 1. The arsenic direct contact target concentration for construction/utility

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workers is 190 mg/kg. However, these workers will be protected through personnel protective equipment, dust monitoring, dust suppression, and provision for washing and decontamination before leaving the site per the EMP and HSP. Requirements to be outlined in an MMP (or later an Environmental Covenant) and associated Corrective Action Plans approved by EPD will prevent digging without prior development of a health and safety program to protect workers exposed to subsurface soils.

The MMP will be in effect after completion of the project until such time as the Environmental Covenant for the Northeast Corridor is filed. Upon completion of corrective action under this Appendix D, an interim Compliance Status Report will be submitted to GA EPD and will include the MMP.

After re-grading and construction of a 14-foot wide pedestrian trail, receptors will primarily include recreational users and landscapers that will maintain the planted areas and mow grass. Recreational users may include bicyclists, joggers, walkers, and children playing along the trail. These recreational receptors would largely be on paved trails with clean, uncontaminated surfaces. Recreational receptors with the greatest potential for exposure to soil are envisioned herein as children bicycling or walking along the trail and adolescent “dirt bicyclers”. The exposure assumptions for the recreational and landscaper scenarios are presented in Table 1. The arsenic direct contact target concentration for the landscaper is 140 mg/kg. The arsenic direct contact target concentrations for the child and adolescent recreational receptors are 63 mg/kg and 86 mg/kg, respectively.

The potential for soil leaching has been evaluated through the collection of SPLP and fraction organic carbon data for the adjacent Eastside Trail Project. Because of similarities in the hydrogeologic conditions along the Northeast Corridor, these data have been reused to assess leaching potential of arsenic to groundwater (Appendix D.6). Also, arsenic has not been detected in groundwater samples at the Atlanta Beltline Northeast Corridor. Thus, although arsenic has been present in these soils for many years, the compound has not leached to groundwater. (Per the soil leaching discussion presented in D.6, the direct contact Type 5 RRS was more conservative than the soil leaching Type 5 RRS.)



Toxicity of Arsenic

Toxicity values published by USEPA were used to calculate the soil target concentrations listed in Table 1. The toxicity values used in these calculations are from USEPA's November 2012 Regional Screening Level table (USEPA, 2012).

Calculation of the Exposure Point Concentration (Pre- and Post-Remediation)

For areas targeted for Type 5 RRS such as the Northeast Corridor, Type 5 RRS allow the use of exposure area averaging to estimate the exposure point concentration for the target receptor populations. USEPA has developed software (ProUCL) that supports the development of upper confidence limits (UCLs) of the arithmetic mean. The program will generate multiple statistics based on normal, lognormal, gamma, and nonparametric distributions. The program will test the distribution of the data and make a recommendation regarding the most applicable UCL to use.

Using an UCL as the exposure point concentration for arsenic would be protective of the majority of the potentially exposed population (95 percent or greater) without skewing site remediation to the farthest limits of the data distribution. In order to collect representative soil concentrations, the linear acreage of the Corridor will be divided into approximately half-acre sampling units. Within each sampling unit, two five-point composite samples will be collected and analyzed for arsenic. The depths for the soil samples for the composites will be 0-6 inches and 6-12 inches. The concept of composite sampling for comparison to risk-based goals has been used for the cleanup of lead-impacted residential yards (USEPA, 2003). The concentration for each composite sample will be compared to the target concentration. If the composite concentration exceeds the target concentration, individual or discrete samples will be analyzed to pinpoint where the higher concentrations are located.

For the Atlanta Beltline Northeast Corridor Project, UCLs will be calculated using either the composite data or the discrete data points when the discrete data points are analyzed. The UCL for a maximum 0.36-mile linear exposure unit of the Beltline will be compared to the target concentration because recreational children and adolescents and landscape/maintenance workers will be equally exposed to the entire linear exposure unit while on or in the vicinity of the pedestrian trail. If the arsenic UCL exceeds the surface soil target concentration, then the concentrations contributing to the exceedance are identified. The data will be sorted from low to



high concentrations, the highest data points removed from the data set, and the UCL recalculated iteratively until the UCL no longer exceeds the target concentration. The higher concentrations identified by this method will be targeted for excavation and exposure controls. Removal and replacement would include removal of the top 6 or 12 inches of soil, as appropriate, and replacement with clean soil in order to construct an exposure barrier. In USEPA guidance for the cleanup of residential areas, USEPA referenced a 1-foot clean soil barrier for protection of human receptors exposed to surface soils (USEPA, 2003). The 1-foot soil barrier has been accepted as a best management practice on rail trails in other jurisdictions (MDEP, 2003). The residual arsenic concentrations, as a combined data set, would not pose an unacceptable risk to site receptors. The exposure barrier becomes an institutional control and will be maintained over the life of the project through yearly inspections and repairs as needed.

Table 1 Exposure Assumptions and Target Concentrations for Atlanta Beltline

Exposure Parameters	Units	Construction Worker (Subsurface Soil Exposures)	Landscaper (Surface Soil Exposures)	Recreational Adolescent (Surface Soil Exposures)	Recreational Adolescent (Surface Soil Exposures)
Total Hazard Index	unitless	1	1	1	1
Target Risk	unitless	1.E-05	1.E-05	1.E-05	1.E-05
Body Weight	kg	70	70	29	55
Averaging Time, Carcinogen	yrs	70	70	70	70
Averaging Time, Noncarcinogen	yrs	1	25	5	7
Exposure Duration	yrs	1	25	5	7
Exposure Frequency	days/yr	125	35	156	156
Soil Ingestion Rate	mg/day	330	100	100	100
Air Inhalation Rate	m ³ /day	20	20	20	20
Particulate Emission Factor	m ³ /kg	4.63E+09	4.63E+09	4.63E+09	4.63E+09
Conversion Factor	kg/mg	1.E-06	1.E-06	1.E-06	1.E-06
Volatilization Factor	m ³ /kg	Chemical-specific	Chemical-specific	Chemical-specific	Chemical-specific
Arsenic Target Concentration (a)	mg/kg	190	140	63 (b)	86

(a) Soil Risk Reduction Standards calculated using equations 6 and 7 from *Risk Assessment Guidance for Superfund, Volume 1, Part B*, USEPA, 1991. Using a DAF of 20, Type 5 RRS for soil leaching are higher in concentration. Therefore, the direct contact values are listed in Table 1.

(b) The recreational child target concentration is the most protective and is selected as the target concentration for arsenic in surface soil (0-1 foot). The cumulative UCL for arsenic in surface soil will not exceed the target concentration.



APPENDIX D.5 TYPE 5 RRS JUSTIFICATION FOR ARSENIC

Introduction

As previously stated, it is the Brownfield applicant's primary intent to remove arsenic-impacted soils to comply with an appropriate Type 1, 2, 3 or 4 RRS to the extent practicable. On the Atlanta Beltline Northeast Corridor Project, two situations have arisen which by themselves or in combination make the application of Type 1-4 standards for arsenic remediation inappropriate under present circumstances, including:

1. The presence of underground utilities, primarily fiber optic cables that parallel the full length of the Northeast Trail, which impede and prevent extending even shallow excavations laterally without severe disruptions in service and/or extreme increases in project cost and schedule. Easement rights were provided to the cable companies by the railroad prior to the applicants' acquisition of the property and negotiating their relocation is infeasible at this time.
2. The presence of arsenic in upper soil strata as a result of historical pesticide applications by the former railroad operator(s) which occur unpredictably, but consistently along the corridor and are considered non-point-source releases. Identification of all arsenic AOCs is considered impracticable and their excavation and removal is similarly considered impracticable due to utilities.

Therefore, it is ABI's intent to apply a Type 5 standard to these specific situations where it is unavoidable. The Type 5 RRS is designed to provide long-term protection of human health and the environment through the application of both engineering and institutional controls. The corrective action elements described herein constitute the necessary engineering controls.

Summary of CAP Implementation

As part of the Corrective Action Plan implementation that began in September 2010, Amec Foster Wheeler has been conducting soil confirmation sampling in accordance with the approved Sampling and Analysis Plan. Amec Foster Wheeler has installed approximately 42 soil borings of which 8 were converted to groundwater monitoring wells. The attached figure depicts the boring/well locations along the approximate 1.8-mile 36-acre Northeast Corridor section between 10th Street and Monroe Drive north to the Buford-Spring Connector. The borings/wells were drilled using hollow-stem augers (HSA), direct push or hand auger techniques. Confirmation

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sampling has identified 17 localized Areas of Concern (AOCs) where the initial soil sample exceeds non-residential risk reduction standards such that removal of impacted soil is required.

Arsenic was detected at 15 AOCs at concentrations greater than the non-residential Type 3 RRS for surface soil (38 mg/kg). Arsenic exceeding the Type 3 RRS at the fifteen locations has been vertically delineated except for borings at the following nine locations: GP-258+69, GP-252+57, MW-248+26, GP-228+30, GP-226+63, GP-224+88, GP-223+10, GP-220+73, GP-209+12.

Underground Utilities

Based on the sub-surface utility evaluation and the site survey performed as part of the existing conditions survey of the Atlanta Beltline Corridor, there are numerous sub-surface utilities that are present on the site including water, gas, storm water, and fiber optic lines. Most notably is the presence of a fiber optic utility line that is owned by Verizon and Quest utility companies. The fiber optic line is generally constructed of four four-inch diameter PVC pipes that are co-located below the ground surface. Each PVC pipe contains hundreds of glass fiber strands. The depth of the fiber optic line varies from six inches up to six feet. The fiber optic lines are located along the length of the Northeast Corridor from 10th Street and Monroe Drive to the Buford-Spring Connector. The lines vary with respect to their position laterally within the corridor, but the location can generally be characterized as being within the middle portion of the corridor. The specific location of the AOCs to the fiber optic utility lines can be seen on the attached figures.

Arsenic Detected In Soil

Fifteen locations have arsenic concentrations above the non-residential risk reduction standard (Type 3 RRS of 38 mg/kg). As shown on the figures attached as Appendix D.3, the spatial distribution of the arsenic locations is sporadic throughout the length of the corridor. Vertically, these 15 sample depths range from approximately 1 foot to approximately 12 feet.

Historic Origins of Arsenic along Railroad Corridors

Research indicates arsenic impacts can originate along rail lines from a number of sources (IPCS, 2001) including:

- Ballast containing slag – Observations of ballast at the ground surface and samples obtained within the numerous borings have not exhibited slag materials;
- Treated wood ties – Although chromate copper arsenate has been used in wood treatment since the 1950s, the ties along the corridor have been in place since before that time, since railroad operations had ceased along that section in the 1940s. Therefore, it is most likely the wood ties were treated with creosote;
- Fossil fuel-burning locomotives – Although coal and oil burning engines were used in the past, the arsenic has not been found in association with significant concentrations of other metals or PAHs which also would be expected to be present. In addition, the depth of penetration of elevated arsenic levels would not be expected as a result of fuel burning along the track sections; and
- Arsenic-based pesticides – Pesticide application has been used for over 100 years to control weeds as a means of fire prevention along railroads. Arsenic sprays were common during the entire active life of this section of track. The elevated arsenic detections along the rail lines appear consistent with the railroad industry's long-term common practice of applying arsenic-containing pesticides in order to control vegetation. According to sources in the U.S. and Australia, it is not uncommon to find arsenic present in the soil along a rail right-of-way at levels significantly exceeding background levels (USEPA, 2010; Folkes and Kuehster, 2001; MDEP, 2003; Smith et al., 2006).

Arsenic and Notification

Based on the conclusion that arsenic detected in soil along the corridor is the result of historical pesticide applications by the railroad, the arsenic concentrations are excluded from notification under the Hazardous Site Response Act (HSRA) paragraph 391-3-19-04(2)(f). Nevertheless, where arsenic is identified in soil above non-residential risk reduction standards, a combination of soil remediation with engineering and institutional controls to manage post-trail-construction under a Monitoring and Maintenance Plan (MMP) will be implemented. The engineering controls are designed to protect the health of the public using the corridor and future workers who perform routine landscaping and maintenance duties. The institutional controls are designed to protect construction and utility workers who perform non-routine activities that have the potential to



require penetrations more than 12 inches below the final ground surface along the corridor under a MMP.

Type 5 Remedial Approach

The detection of arsenic along the Northeast Trail does not indicate a current complete exposure pathway, particularly if the arsenic is detected below ground surface. As the development of the project moves forward, specific areas may be covered by paving and other engineered features; thus, future exposure pathways will also remain incomplete. For those areas where soils are at the surface currently or may be brought to the surface during redevelopment, a soil barrier/vegetative cover will be used to control current and future soil exposures. For those areas where arsenic is left in place, institutional controls will be applied through an environmental covenant.

Arsenic leaching potential was investigated for the Eastside Trail Project and the results are incorporated herein by reference. The data were used to estimate a site-specific partition coefficient for arsenic and identify a soil concentration for arsenic that does not produce leachate concentrations greater than risk-based target concentrations, as summarized in Appendix D.6.

The default Type 3 arsenic soil RRS protective of non-residential receptors is used as the target RRS for arsenic. As an alternative to the Type 1-4 RRS, a Type 5 RRS will be used along with exposure area averaging to estimate the exposure point concentration for the target receptor populations. Procedures for exposure area averaging are presented in Appendix D.4. This approach will include limited excavation, transport and disposal off-site of the thirteen AOCs of elevated arsenic concentrations in soil to remove the principal threats at the site as described in Appendix D.7.

In addition to exposure controls including soil removal (as described in detail in Appendix D.7), a soil barrier/vegetative cover or paving and buildings will be applied. This engineering control will eliminate the exposure pathway by preventing the public's direct contact to site soils through either dermal contact or inhalation of dust particles. In addition, the soil barrier will include a vegetative cover that includes landscaping materials such as trees, shrubs, grass, mulch or other organic materials. The soil barrier/vegetative cover will be utilized in areas outside of the hard cover, including the area of the future light rail transit corridor, until its construction.



The engineering controls are designed to protect the health of the public using the corridor and future workers who perform routine landscaping and maintenance duties. The institutional controls are designed to protect construction and utility workers who perform non-routine activities that have the potential to require penetrations more than 12 inches below the final ground surface along the corridor. The boundaries of the Type 5 RRS area will be described in detail in an interim CSR and the Environmental Covenant.

The Construction Contractor will initially grade the site and construct the 14-foot wide concrete pedestrian trail as a minimum. Work performed prior to completion of the approved engineering controls will be executed in a manner that prevents public contact with an AOC under remediation, prevents transport of impacted soil to the surrounding environment, and is in compliance with federal, state, and local laws. Work will be performed in compliance with applicable OSHA regulations and in accordance with a site-specific Health and Safety Program.

In those areas not in compliance with Type 1 through 4 RRS, the constructed pavement and associated structures constitute a Type 5 hard cover which prohibits direct soil exposure of recreational users or landscape/maintenance workers and controls infiltration of storm water that might contribute to vertical transport of arsenic. Exposed surface soils (0 to 1 foot in depth) beyond the hard cover that are demonstrated to be in compliance with Type 1 through 4 SRRS through verification testing will constitute a soil barrier protective of recreational users and landscape/maintenance workers.

Conceptually, placing the project design over the areas impacted by arsenic can be used to identify those areas where exposure will be controlled by the presence of the engineered features of the project, such as a 14-foot wide pedestrian trail and the light rail alignment. In those areas where landscaping and other surface intrusive activities may occur over an extended period, one foot of clean fill may be introduced to control future exposures.

Using the following protocol, soils from areas outside the constructed hard cover will be sampled for comparison to the target concentration for arsenic in surficial soil, 63 mg/kg, as approved by EPD:

- Two 5–point composite samples of “surface soil” will be collected from each 0.5-acre sampling area;

- Surface soil is defined herein as the top 12 inches below final grade, not including plant bedding or vegetative cover;
- A composite sample will be collected from a depth of 0-6 inches and from 6-12 inches in accordance with the SAP, as modified;
- A sampling area is defined herein as a maximum of 0.5 acre within which the potential for exposure is similar throughout (for example, a level landscaped corridor may have a different potential for exposure compared to a landscaped steep slope);
- Surface soil will be remediated after initial construction in each sampling area or portion thereof which contains an exposure point concentration that exceeds the risk-based target concentration for arsenic. An exposure point concentration for arsenic will be statistically determined using USEPA-approved statistical methods;
- Exposure area averaging may incorporate the entire acreage or subset of the entire area approved for implementation of the Type 5 RRS. The corridor may be divided into smaller exposure areas in order to facilitate construction of the pedestrian trail per the construction schedule;
- Re-testing of each point sample comprising the composite is an allowable option to isolate elevated areas of arsenic within the exposure area requiring remediation;
- The appropriate volume of impacted soil will be removed and replaced with soil that does not contain COCs exceeding Type 1 through 4 soil RRS in order to provide the protective soil barrier; and
- Soil removal and disposal will be in accordance with the procedures described in Section 2.2 of CAP Amendment #2.

The Type 5 RRS is designed to provide long-term protection of human health and the environment through the application of both engineering and institutional controls. The corrective action elements described herein constitute the necessary engineering controls.

The MMP will be in effect after completion of the project until such time as the Environmental Covenant for the Northeast Corridor is filed. Upon completion of corrective action under this Appendix D, an interim Compliance Status Report will be submitted to GA EPD and will include the MMP.

The institutional controls will be set forth in an Environmental Covenant filed with the Recorder of Deeds for Fulton County and submitted to EPD within 30 days of recording. The Environmental Covenant will be designed to 1) control direct contact to subsurface soil except by worker notification, 2) establish monitoring and long-term maintenance criteria through the use of a Monitoring and Maintenance Plan (MMP), and 3) prevent the use of groundwater for consumption at the site.



References:

- Folkes, DJ and TE Kuehster, 2001. *Contributions of Pesticide use to Urban Background Concentrations of Arsenic in Denver, Colorado, U.S.A.*, Environmental Forensics (2001) 2, 127-139.
- IPCS, 2001. International Programme on Chemical Safety, Arsenic and Arsenic Compounds, Environmental Health Criteria 224. <http://www.inchem.org/documents/ehc/ehc/ehc224.htm#1.4>.
- MDEP, 2003. Commonwealth of Massachusetts Department of Environmental Protection, *Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails*.
- Smith E. et al., 2006. *Distribution and nature of arsenic along former railway corridors of South Australia*, Science of the Total Environment 363 (2006) 175-182.
- USEPA, 2010. News Release: No Significant Health Risks Found in Analysis of Second Round of Soil Sampling Near Soccer Complex in Cameron, Mo. Release date: 10/28/2010. <http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/df60207ea4b26400852577ca0066f727!OpenDocument>



APPENDIX D.6

ARSENIC SOIL TO GROUNDWATER ASSESSMENT

The potential for arsenic in soil to migrate vertically to the groundwater table was assessed by MACTEC (predecessor to Amec Foster Wheeler) in November 2010 for the Eastside Trail portion of the Atlanta Beltline. The findings were presented in Appendix B.6 of Amendment #2 to the Approved Corrective Action Plan dated March 25, 2011.

Similar arsenic conditions were encountered along other contiguous sections of the Beltline including the Reynoldstown Trail and the Northeast Corridor. Given the similarity of conditions encountered (i.e., similar hydrogeologic conditions and arsenic has not been detected in groundwater), the findings of the Arsenic Soil to Groundwater Assessment for the Eastside Trail may be applied to the Northeast Corridor section and is included herein by reference.

In summary, the hydrogeologic conditions, the distribution of arsenic in the shallow soil and the source of arsenic along the Northeast Corridor are very similar to those along the Eastside Trail corridor. Calculations predict a non-zero concentration of arsenic in the pore water remains well above the water table for the entire simulated 50-year period. The peak arsenic concentration after 50 years is predicted to move less than two feet downward from the initial position.

In addition, arsenic has not been detected in the eight installed groundwater monitoring wells along the Northeast Corridor, although the constituent has been present in soil along the corridor for at least 40 years or more, indicating that arsenic in soil has a low potential to impact groundwater resources.

APPENDIX D.7

PLANNED CORRECTIVE ACTIONS FOR NORTHEAST CORRIDOR

In accordance with CAP Amendment #2 and based on the approach applied along the Eastside Trail corridor, a site-specific corrective action approach has been conceived as presented in this Appendix D.7 for the Northeast Corridor. Refer to the attached Figures D.7.1 through D.7.9 for depictions of the seventeen Areas of Concern (AOCs) along the Northeast Corridor. The following major activities will be performed more or less in the sequence presented, as summarized on the attached GANTT schedule.

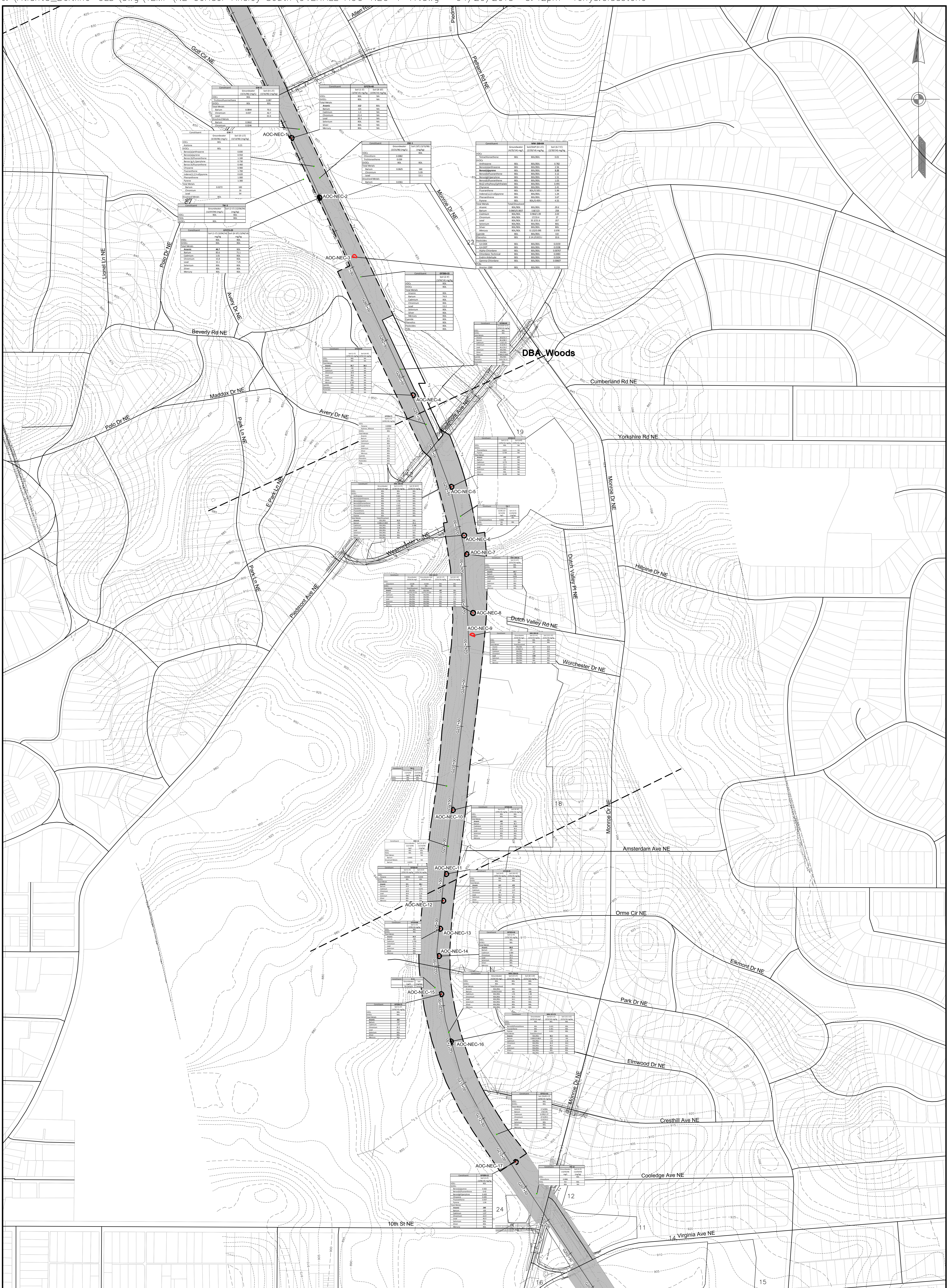
- Soil impacted with the COC Benzo-a-Pyrene will be excavated from the area around station 268+04 (AOC-NEC-3) (Figure D.7.2) and disposed based on the SRRS values presented in Appendix A of CAP Amendment #2. Post excavation confirmation samples will be collected to determine the lateral extent and depth to be excavated. The samples will be collected based on the requirements outlined in the CAP Amendment #2.
- Soil impacted with the COC Lead will be excavated from the area around station 243+16 (AOC-NEC-9) (Figure D.7.5) and disposed based on the SRRS values presented in Appendix A of CAP Amendment #2. Post excavation confirmation samples will be collected to determine the lateral extent and depth to be excavated. The samples will be collected based on the requirements outlined in the CAP Amendment #2.
- The fifteen arsenic-impacted AOCs (AOC-NEC-1, AOC-NEC-2, AOC-NEC-4, AOC-NEC-5, AOC-NEC-6, AOC-NEC-7, AOC-NEC-8, AOC-NEC-10, AOC-NEC-11, AOC-NEC-12, AOC-NEC-13, AOC-NEC-14, AOC-NEC-15, AOC-NEC-16, AOC-NEC-17) will be excavated and disposed to remove the arsenic-impacted soil above 38 mg/kg to the delineated vertical extent or to an elevation at least 12 inches below the final surface soil grade as shown on the typical cross-section in Figure D.7.10. The maximum pre-determined lateral extents of each excavation are shown on Figures D.7.1, D.7.3, D.7.4, D.7.5, D.7.6, D.7.7, D.7.8, and D.7.9 and will be adjusted to avoid excavation within five feet of any underground utilities.
- The Northeast Corridor construction will generally entail the installation of retaining structures along the sides of the corridor and at certain roadways followed by grading to establish a generally level surface as designed.
- A utility vault will be installed along the trail alignment at the depth of approximately 4 feet, followed by construction of the overlying 14-foot wide concrete trail.



- Following grading of a sufficient acreage, the available 0.5-acre sampling areas per the Type 5 RRS will be evaluated using the 5-point composite sampling methodology. Since arsenic is the only identified COC that will be remaining at that time, the composite soil samples will be analyzed for arsenic only.
- As described in detail in Appendix D.4, sampling areas or sub-areas which exceed the statistically determined exposure point concentration of no greater than the target concentration of 63 mg/kg of arsenic as a default will be excavated and disposed. A typical schematic of this process is depicted on Figure D.7.11.

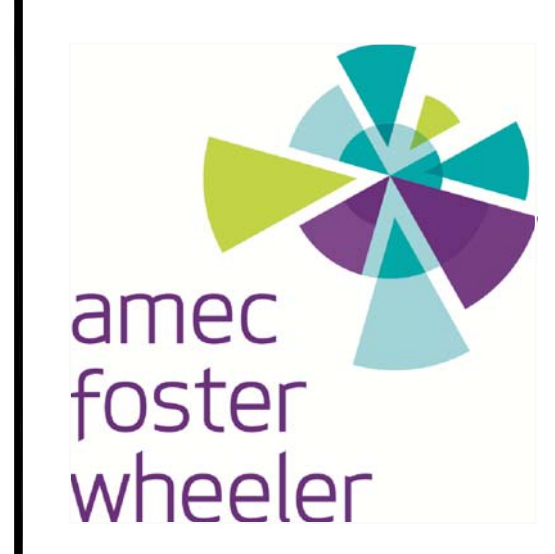
As required by the CAP, all soil will be characterized prior to off-site disposal and will be transported to a permitted facility using a manifest system.

Following the soil remediation, the MMP will be in effect after completion of the trail project until such time as the Environmental Covenant for the Northeast Trail is filed. Upon completion of corrective action under this Appendix D, an interim Compliance Status Report will be submitted to GA EPD and will include the MMP.



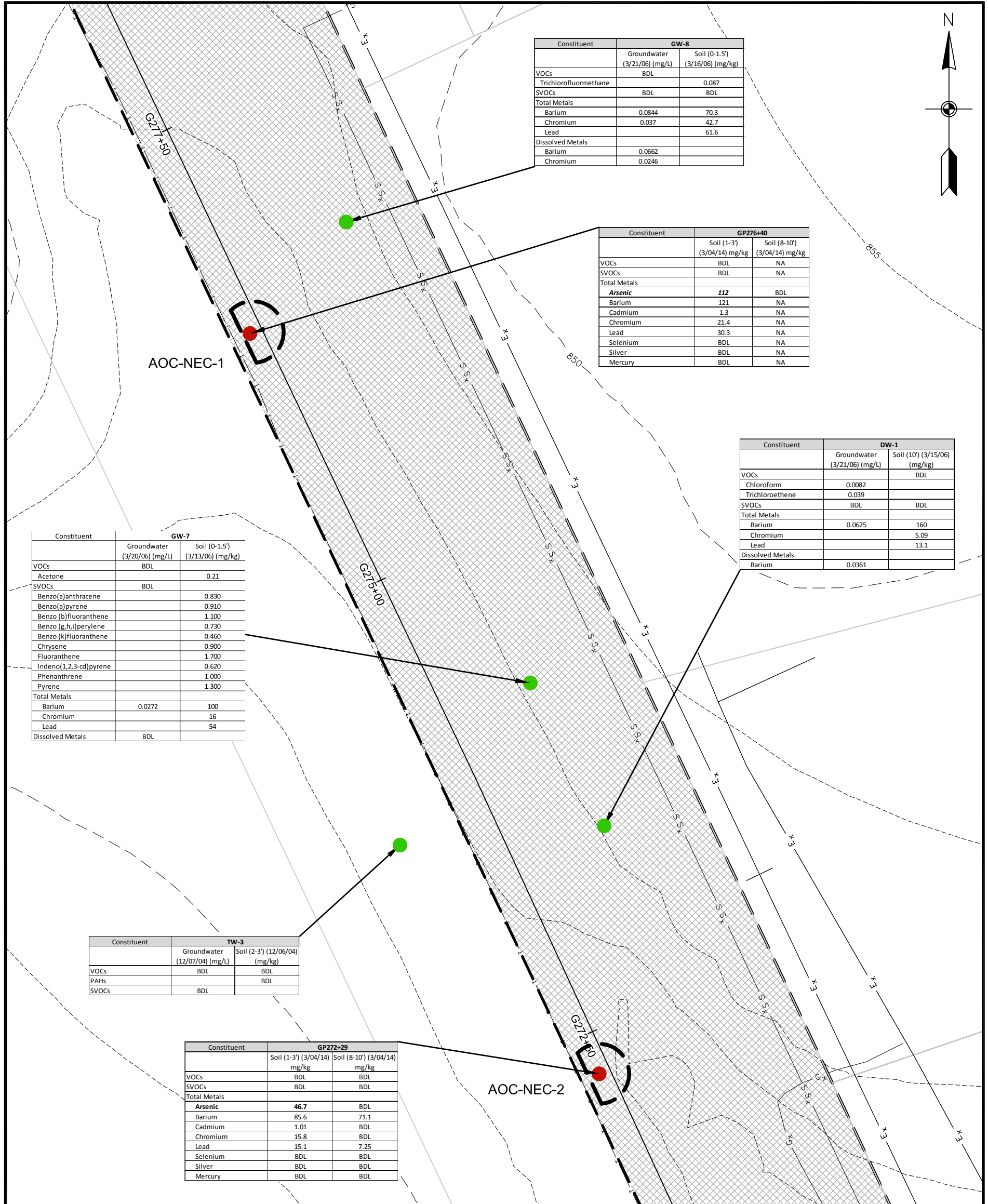
LEGEND	
	TAX PARCELS
	BELTLINE CORRIDOR
	SURFACE WATER
	BELTLINE
	ROADS
	ANSLEY SQUARE PARCEL
	SAMPLE LOCATIONS - PASSED
	SAMPLE LOCATIONS - FAILED
	CONTOUR LINE
	STORMWATER
	OVERHEAD POWER
	GAS
	FIBEROPTICS
	WATER
	UNDERGROUND POWER
	SANITARY SEWER
	PROPERTY BOUNDARY
	ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

0 200' 400'
SCALE: 1"=200'



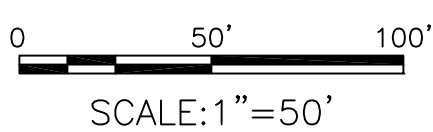
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ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-1 THROUGH AOC-NEC-17
JOB NO. 6121-13-0279
FIGURE D.7



LEGEND

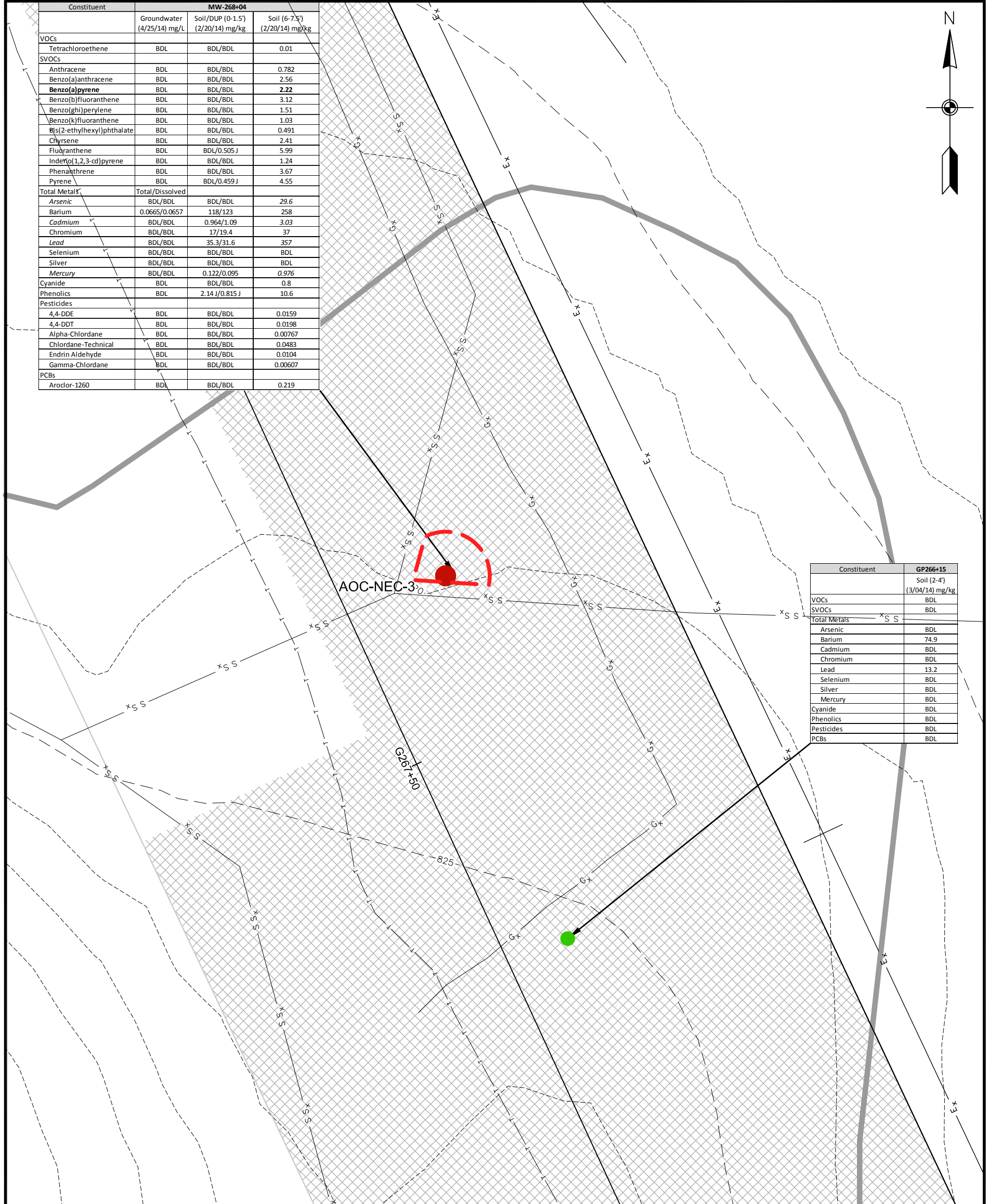
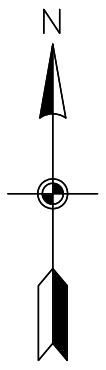
- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- S D_x — STORMWATER
- E_x — OVERHEAD POWER
- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S S_x — SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



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NE CORRIDOR NORTH - ANSLEY NORTH
 ESTIMATED LIMITS OF EXCAVATION
 AOC-NEC-1 AND 2
 JOB NO. 6121-13-0278
 FIGURE D.7.1

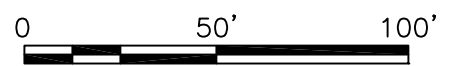
Constituent	MW-268+04		
	Groundwater (4/25/14) mg/L	Soil/DUP (0-1.5') (2/20/14) mg/kg	Soil (6-7.5') (2/20/14) mg/kg
VOCs			
Tetrachloroethene	BDL	BDL/BDL	0.01
SVOCs			
Anthracene	BDL	BDL/BDL	0.782
Benzo(a)anthracene	BDL	BDL/BDL	2.56
Benzo(a)pyrene	BDL	BDL/BDL	2.22
Benzo(b)fluoranthene	BDL	BDL/BDL	3.12
Benzo(ghi)perylene	BDL	BDL/BDL	1.51
Benzo(k)fluoranthene	BDL	BDL/BDL	1.03
Bis(2-ethylhexyl)phthalate	BDL	BDL/BDL	0.491
Chrysene	BDL	BDL/BDL	2.41
Fluoranthene	BDL	BDL/0.505 J	5.99
Indeno(1,2,3-cd)pyrene	BDL	BDL/BDL	1.24
Phenanthrene	BDL	BDL/BDL	3.67
Pyrene	BDL	BDL/0.459 J	4.55
Total Metals			
Arsenic	BDL/BDL	BDL/BDL	29.6
Barium	0.0665/0.0657	118/123	258
Cadmium	BDL/BDL	0.964/1.09	3.03
Chromium	BDL/BDL	17/19.4	37
Lead	BDL/BDL	35.3/31.6	357
Selenium	BDL/BDL	BDL/BDL	BDL
Silver	BDL/BDL	BDL/BDL	BDL
Mercury	BDL/BDL	0.122/0.095	0.976
Cyanide	BDL	BDL/BDL	0.8
Phenolics	BDL	2.14 J/0.815 J	10.6
Pesticides			
4,4-DDE	BDL	BDL/BDL	0.0159
4,4-DDT	BDL	BDL/BDL	0.0198
Alpha-Chlordane	BDL	BDL/BDL	0.00767
Chlordane-Technical	BDL	BDL/BDL	0.0483
Endrin Aldehyde	BDL	BDL/BDL	0.0104
Gamma-Chlordane	BDL	BDL/BDL	0.00607
PCBs			
Aroclor-1260	BDL	BDL/BDL	0.219



Constituent	GP266+15 Soil (2-4') (3/04/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	BDL
Arsenic	BDL
Barium	74.9
Cadmium	BDL
Chromium	BDL
Lead	13.2
Selenium	BDL
Silver	BDL
Mercury	BDL
Cyanide	BDL
Phenolics	BDL
Pesticides	BDL
PCBs	BDL

LEGEND

- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- S D_x — STORMWATER
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- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S S_x — SANITARY SEWER
- — — — — PROPERTY BOUNDARY
- BENZO(A)PYRENE = ESTIMATED LIMITS OF EXCAVATION, ACTUAL LIMITS DETERMINED BY TESTING.



SCALE: 1" = 50'

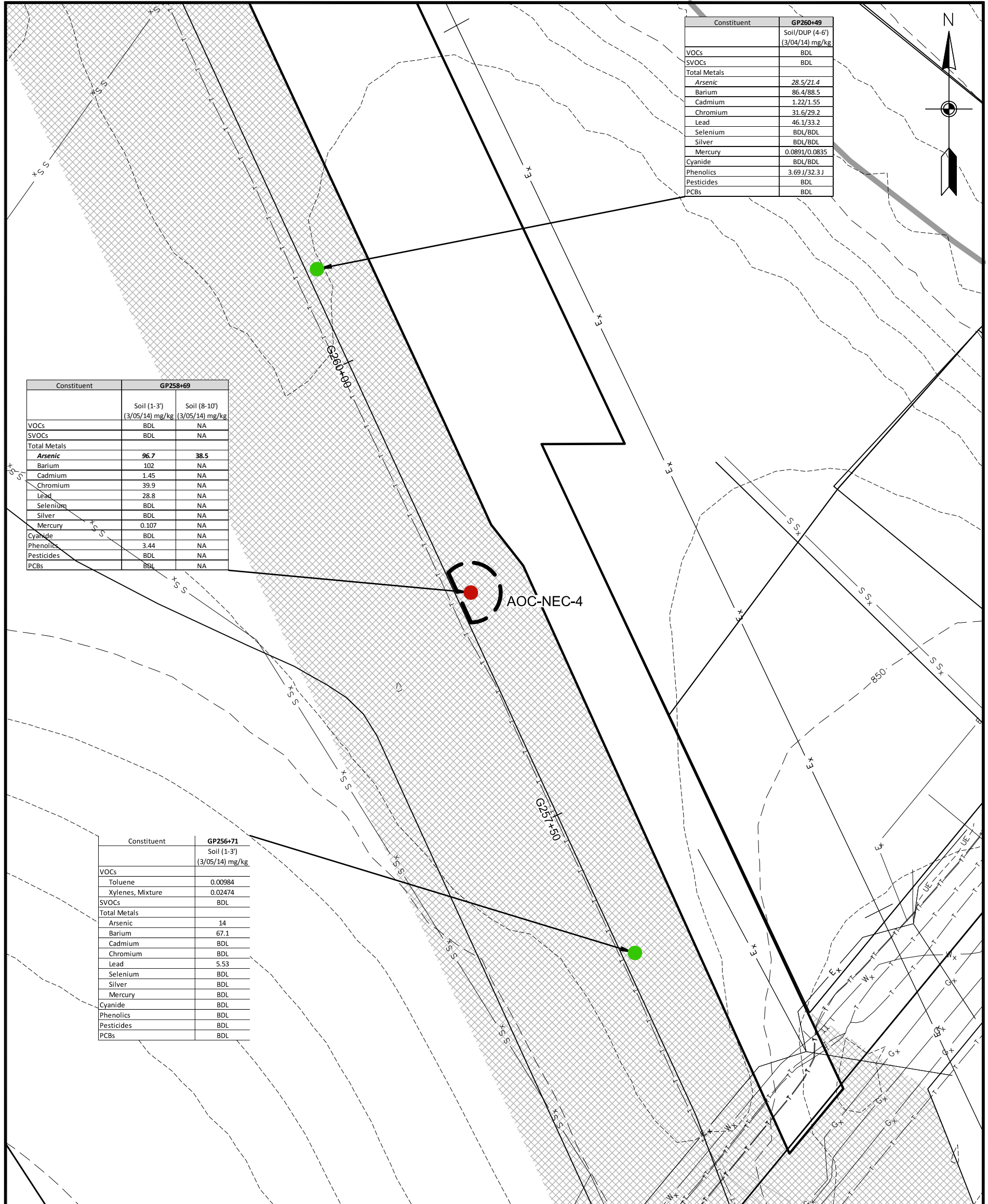


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NE CORRIDOR NORTH - ASLEY SOUTH
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-3

JOB NO. 6121-13-0277

FIGURE
D.7.2



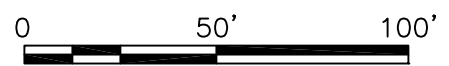
Constituent	GP260+49
	Soil/DUP (4-6') (3/04/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	28.5/21.4
Barium	86.4/88.5
Cadmium	1.22/1.55
Chromium	31.6/29.2
Lead	46.1/33.2
Selenium	BDL/BDL
Silver	BDL/BDL
Mercury	0.0891/0.0835
Cyanide	BDL/BDL
Phenolics	3.69/32.3 J
Pesticides	BDL
PCBs	BDL

Constituent	GP258+69	
	Soil (1-3') (3/05/14) mg/kg	Soil (8-10') (3/05/14) mg/kg
VOCs	BDL	NA
SVOCs	BDL	NA
Total Metals		
Arsenic	96.7	38.5
Barium	102	NA
Cadmium	1.45	NA
Chromium	39.9	NA
Lead	28.8	NA
Selenium	BDL	NA
Silver	BDL	NA
Mercury	0.107	NA
Cyanide	BDL	NA
Phenolics	3.44	NA
Pesticides	BDL	NA
PCBs	BDL	NA

Constituent	GP256+71
	Soil (1-3') (3/05/14) mg/kg
VOCs	
Toluene	0.00984
Xylenes, Mixture	0.02474
SVOCs	BDL
Total Metals	
Arsenic	14
Barium	67.1
Cadmium	BDL
Chromium	BDL
Lead	5.53
Selenium	BDL
Silver	BDL
Mercury	BDL
Cyanide	BDL
Phenolics	BDL
Pesticides	BDL
PCBs	BDL

LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS.



SCALE: 1" = 50'

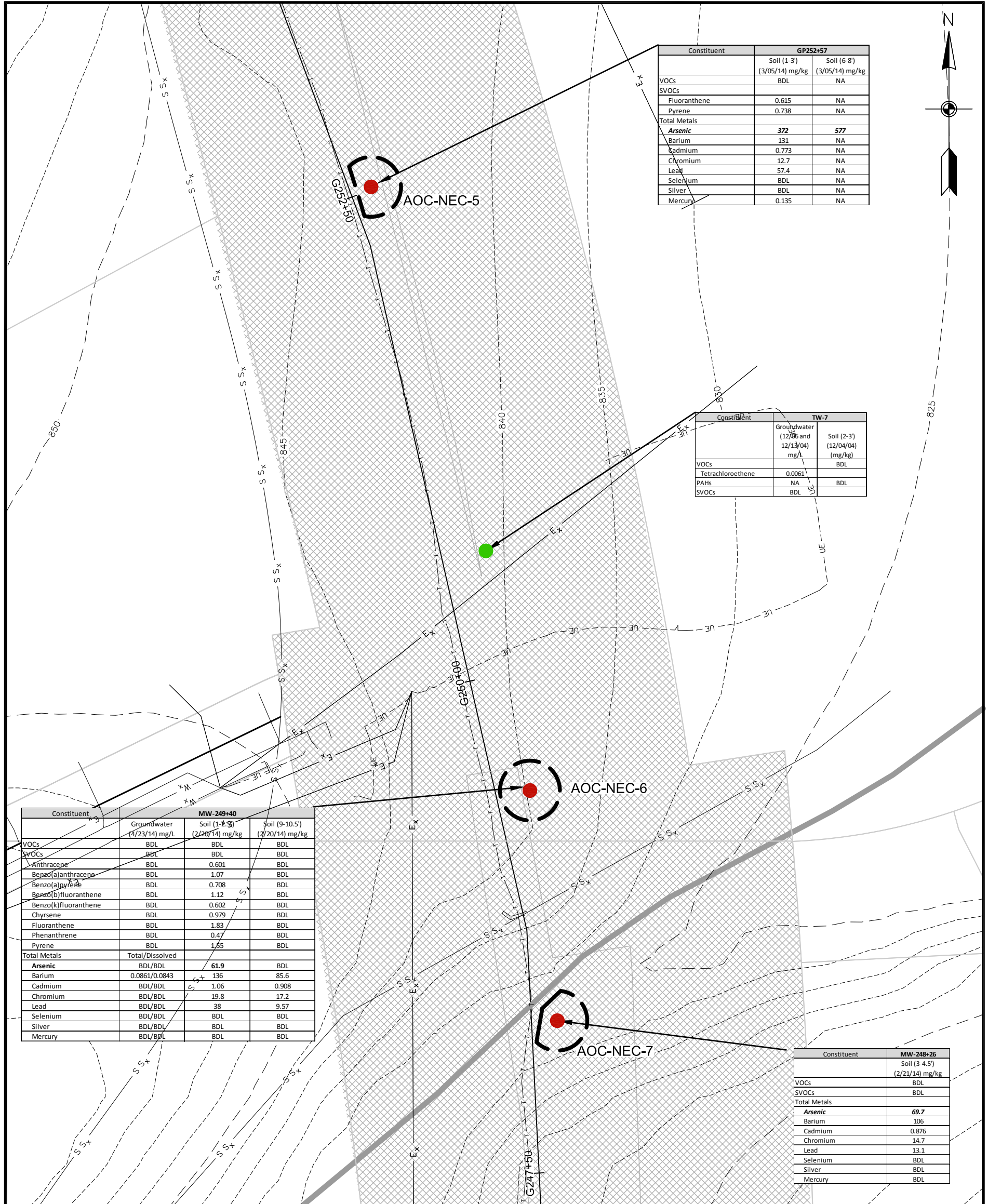


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NE CORRIDOR NORTH - ASLEY SOUTH
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-4

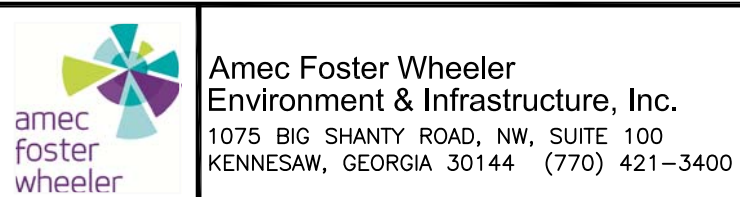
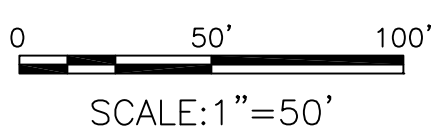
JOB NO. 6121-13-0277

FIGURE
D.7.3

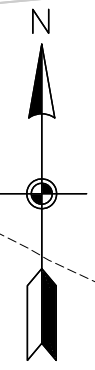


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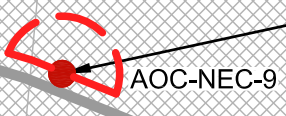
- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



NE CORRIDOR NORTH - PIEDMONT
 ESTIMATED LIMITS OF EXCAVATION
 AOC-NEC-5, 6, AND 7
 JOB NO. 6121-13-0279
 FIGURE D.7.4



Constituent	MW-244+57			
	Groundwater (4/24/14) mg/L	Groundwater DUP (4/24/14) mg/L	Soil (0-1.5') (2/21/14) mg/kg	Soil (8.5-10') (2/21/14) mg/kg
VOCs				
Chloroform	0.0128	0.0128	BDL	BDL
SVOCs	BDL	BDL	BDL	BDL
Total Metals	Total/Dissolved	Total/Dissolved		
Arsenic	BDL/BDL	BDL/BDL	107	BDL
Barium	0.0739/0.073	0.0773/0.075	109	88.6
Cadmium	BDL/BDL	BDL/BDL	1.1	1.07
Chromium	BDL/BDL	BDL/BDL	29.6	13.1
Lead	BDL/BDL	BDL/BDL	8.41	9.31
Selenium	BDL/BDL	BDL/BDL	BDL	BDL
Silver	BDL/BDL	BDL/BDL	BDL	BDL
Mercury	BDL/BDL	BDL/BDL	BDL	BDL



Constituent	MW-243+16		
	Groundwater (4/24/14) mg/L	Soil (2.5-4') (2/21/14) mg/kg	Soil (13.5-15') (2/21/14) mg/kg
VOCs	BDL	BDL	BDL
SVOCs	BDL	BDL	BDL
Total Metals	Total/Dissolved		
Arsenic	BDL/BDL	20.7	8.62
Barium	0.118/0.11	111	42.6
Cadmium	BDL/BDL	3.25	BDL
Chromium	BDL/BDL	187	14.1
Lead	BDL/BDL	1340	7.43
Selenium	BDL/BDL	BDL	BDL
Silver	BDL/BDL	BDL	BDL
Mercury	BDL/BDL	0.161	BDL

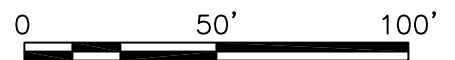
LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY



ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

LEAD = ESTIMATED LIMITS OF EXCAVATION, ACTUAL LIMITS DETERMINED BY TESTING.

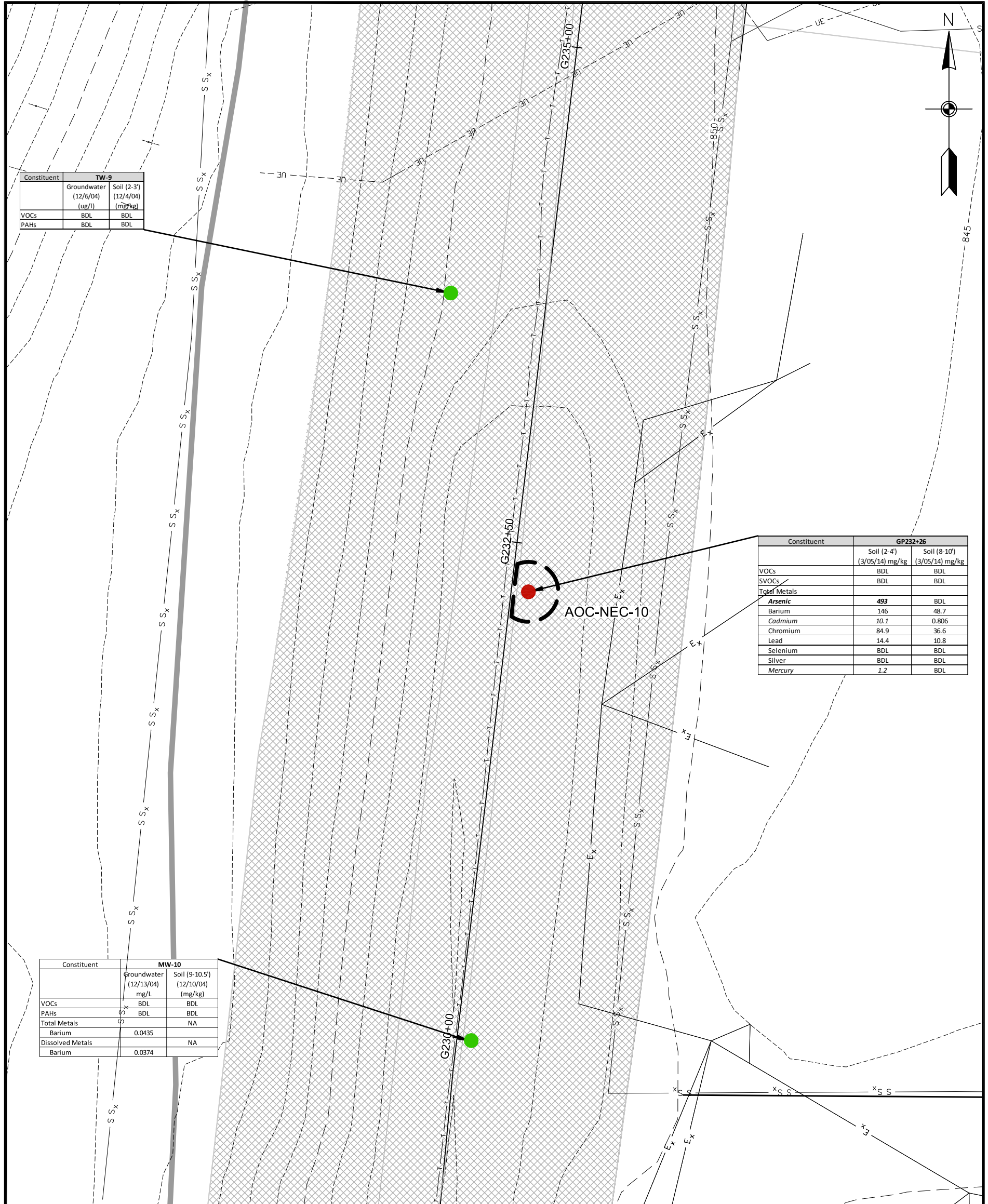


SCALE: 1" = 50'



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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-8 AND 9
JOB NO. 6121-13-0279
FIGURE D.7.5



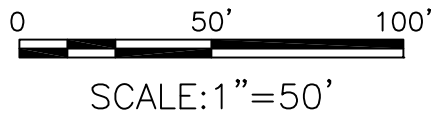
Constituent	TW-9	
	Groundwater (12/6/04) (ug/l)	Soil (2-3') (12/4/04) (mg/kg)
VOCs	BDL	BDL
PAHs	BDL	BDL

Constituent	GP232+26	
	Soil (2-4') (3/05/14) mg/kg	Soil (8-10') (3/05/14) mg/kg
VOCs	BDL	BDL
SVOCs	BDL	BDL
Total Metals		
Arsenic	493	BDL
Barium	146	48.7
Cadmium	10.1	0.806
Chromium	84.9	36.6
Lead	14.4	10.8
Selenium	BDL	BDL
Silver	BDL	BDL
Mercury	1.2	BDL

Constituent	MW-10	
	Groundwater (12/13/04) mg/L	Soil (9-10.5') (12/10/04) (mg/kg)
VOCs	BDL	BDL
PAHs	BDL	BDL
Total Metals		NA
Barium	0.0435	
Dissolved Metals		NA
Barium	0.0374	

LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS

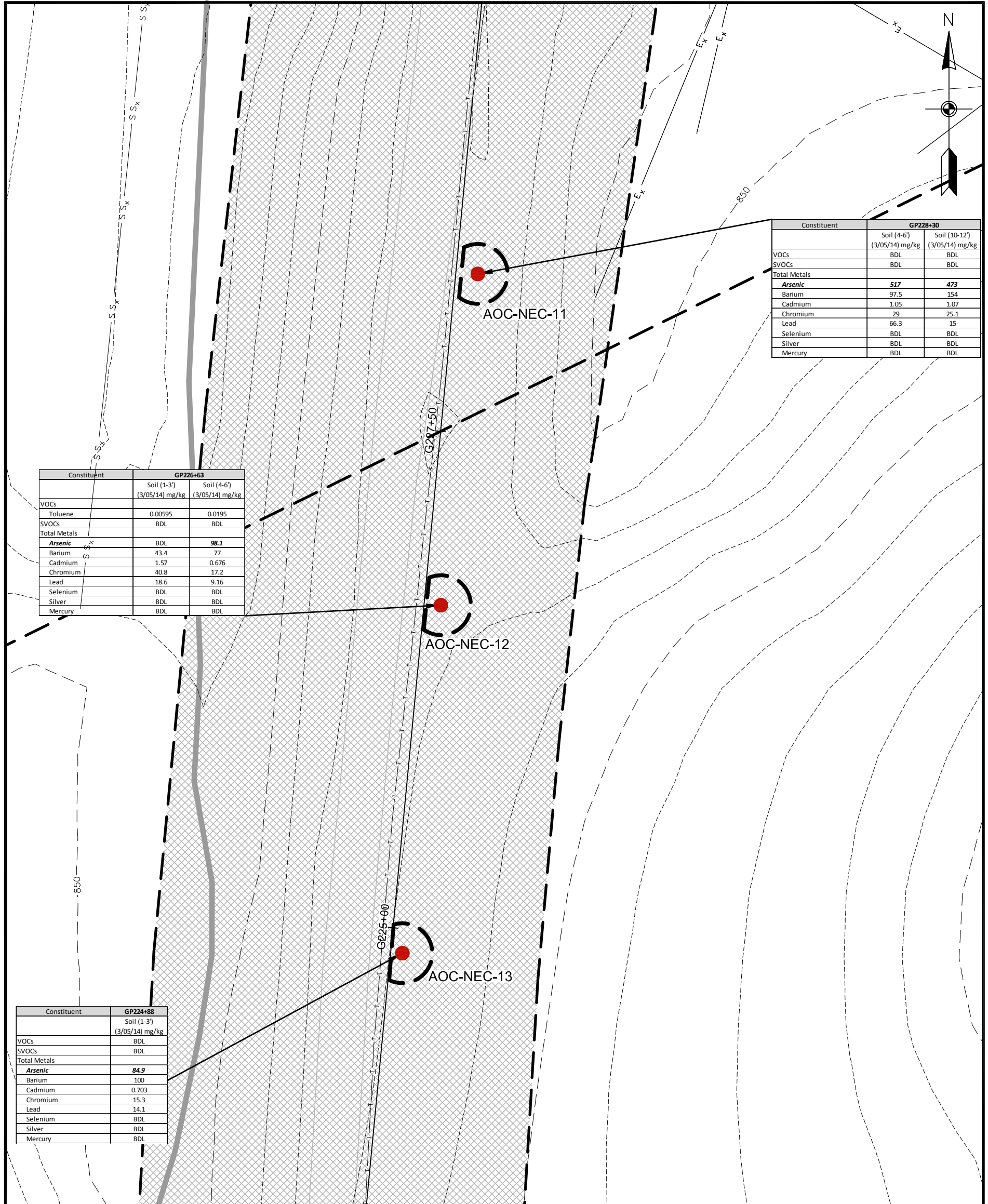


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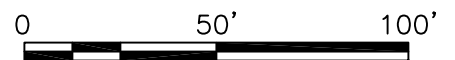
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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-10
JOB NO. 6121-13-0279
FIGURE D.7.6



LEGEND

- TAX PARCELS
- BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS - PASSED
- SAMPLE LOCATIONS - FAILED
- CONTOUR LINE
- STORMWATER
- OVERHEAD POWER
- GAS
- FIBEROPTICS
- WATER
- UNDERGROUND POWER
- SANITARY SEWER
- PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



SCALE: 1" = 50'

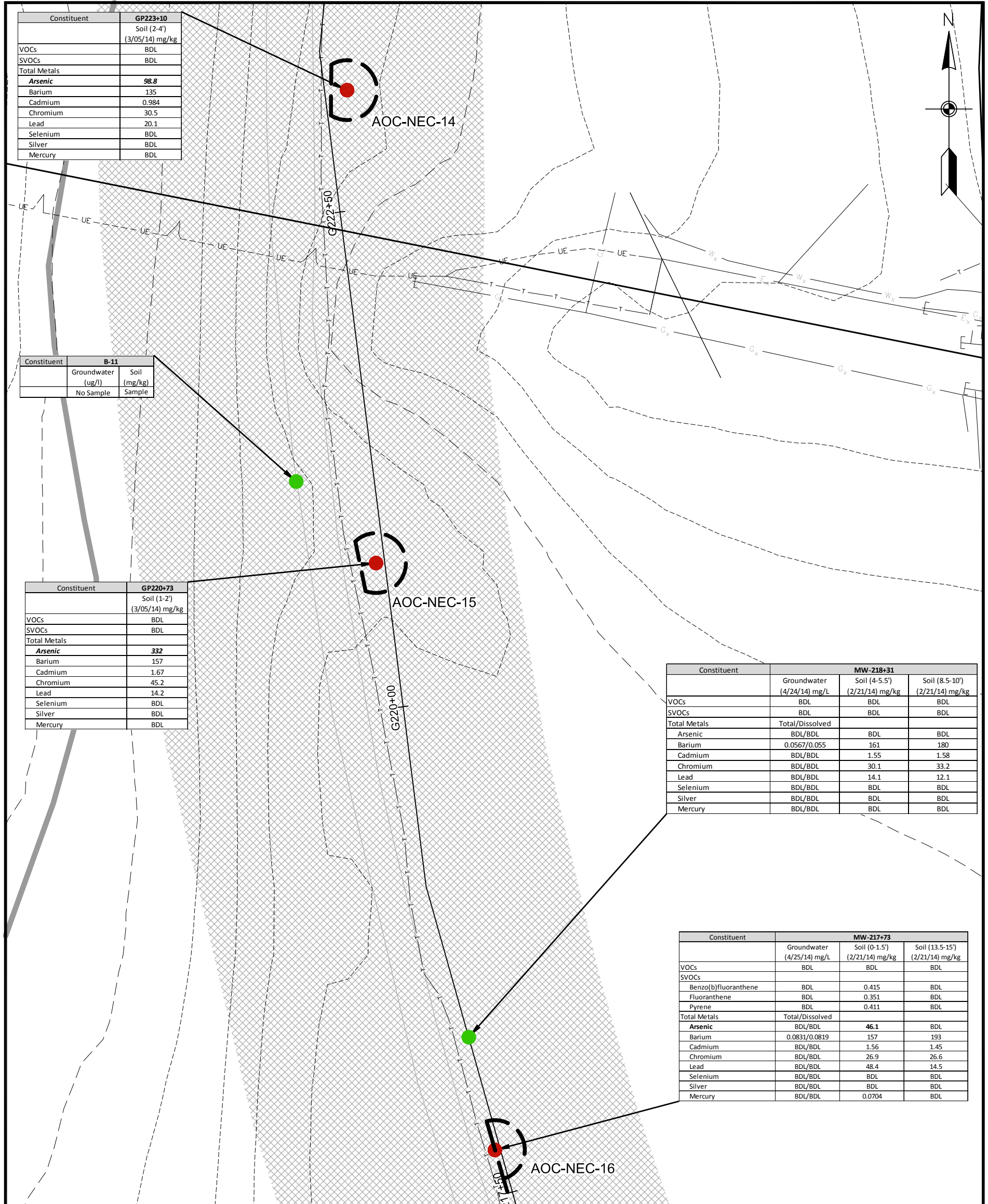


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NE CORRIDOR NORTH - PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-11, 12, AND 13

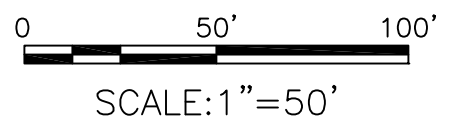
JOB NO. 6121-13-0279

FIGURE
D.7.7



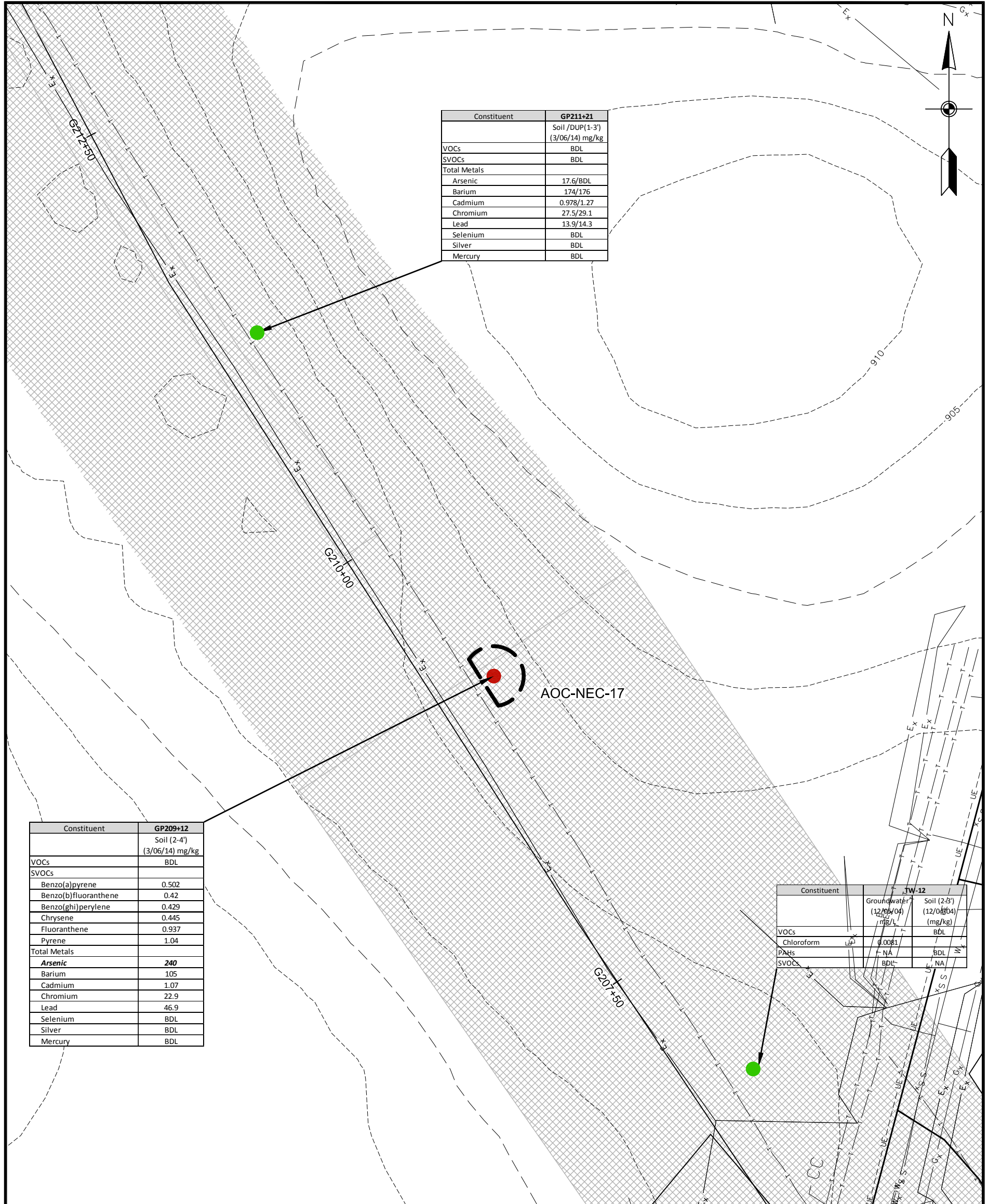
LEGEND

- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS – PASSED
- SAMPLE LOCATIONS – FAILED
- CONTOUR LINE
- S D_x — STORMWATER
- E_x — OVERHEAD POWER
- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S S_x — SANITARY SEWER
- — — — — PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



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NE CORRIDOR NORTH – PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC – 14, 15, AND 16
JOB NO. 6121-13-0279
FIGURE D.7.8



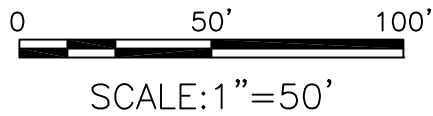
Constituent	GP211+21
	Soil /DUP(1-3') (3/06/14) mg/kg
VOCs	BDL
SVOCs	BDL
Total Metals	
Arsenic	17.6/BDL
Barium	174/176
Cadmium	0.978/1.27
Chromium	27.5/29.1
Lead	13.9/14.3
Selenium	BDL
Silver	BDL
Mercury	BDL

Constituent	GP209+12
	Soil (2-4') (3/06/14) mg/kg
VOCs	BDL
SVOCs	
Benzo(a)pyrene	0.502
Benzo(b)fluoranthene	0.42
Benzo(ghi)perylene	0.429
Chrysene	0.445
Fluoranthene	0.937
Pyrene	1.04
Total Metals	
Arsenic	240
Barium	105
Cadmium	1.07
Chromium	22.9
Lead	46.9
Selenium	BDL
Silver	BDL
Mercury	BDL

Constituent	TW-12	
	Groundwater (12/06/04) mg/L	Soil (2-3') (12/06/04) (mg/kg)
VOCs		BDL
Chloroform	0.0081	
PAHs	NA	BDL
SVOCs	BDL	NA

LEGEND

- TAX PARCELS
- ▨ BELTLINE CORRIDOR
- SURFACE WATER
- BELTLINE
- ROADS
- ANSLEY SQUARE PARCEL
- SAMPLE LOCATIONS – PASSED
- SAMPLE LOCATIONS – FAILED
- CONTOUR LINE
- S D_x — STORMWATER
- E_x — OVERHEAD POWER
- G_x — GAS
- T — T — T — FIBEROPTICS
- W_x — WATER
- UE --- UE --- UNDERGROUND POWER
- S S_x — SANITARY SEWER
- — — — — PROPERTY BOUNDARY
- ARSENIC = MAXIMUM LIMITS OF PLANNED EXCAVATION ASSUMING NO OBSTRUCTIONS



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NE CORRIDOR NORTH – PIEDMONT
ESTIMATED LIMITS OF EXCAVATION
AOC-NEC-17
JOB NO. 6121-13-0279
FIGURE D.7.9

Arsenic Impacted Soil to be Excavated and Transported Off-Site for Disposal

Post-grading, Soil will be tested in the top one foot on a 1/2 acre sampling area to ensure a one foot soil barrier.

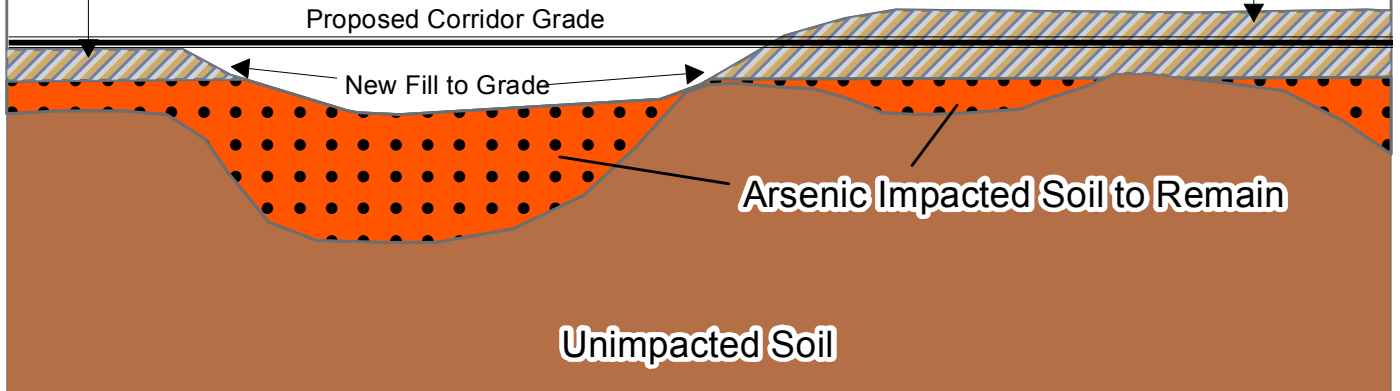
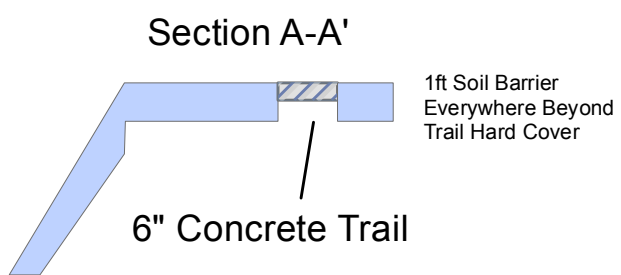
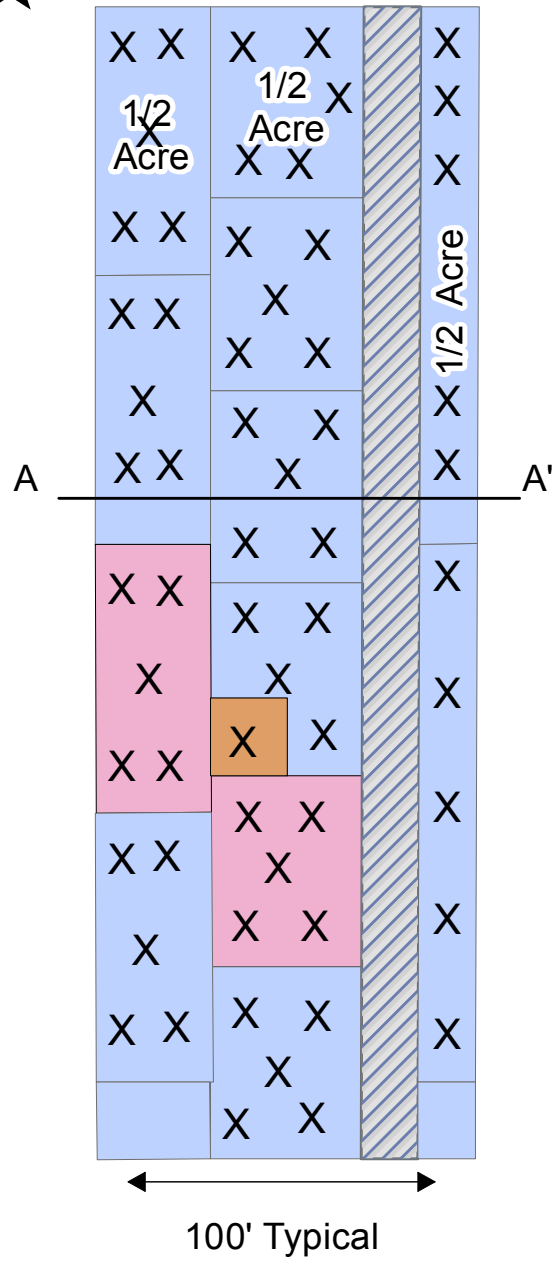


IMAGE IS NOT TO SCALE



IMAGES ARE NOT TO SCALE

Legend

- Concrete Trail
- Typical 1/2 Acre Soil Barrier Sampling Area
- Random Selected Locations for 5 Point Composite Samples Per 1/2 Acre Sampling Area
- Soil Barrier Replaced by Clean Soil Based on Results of Composite Samples on a Full 1/2 Acre
- Soil Barrier Replaced on Only Part of 1/2 Acre Sampling Area Based on Testing of Point Samples



**Typical Plan View &
Cross-Section of Soil Barrier**
Atlanta Beltline -NE-Corridor



Appendix D.8 Schedule

