ATLANTA REGIONAL COMMISSION

REGIONAL REVIEW FINDING

Atlanta Regional Commission • 229 Peachtree Street NE | Suite 100 | Atlanta, Georgia 30303 • ph: 404.463.3100 fax: 404.463.3205 • atlantaregional.org

DATE: MARCH 13. 2023

TO: MAYOR KURT WILSON, City of Roswell
ATTN TO: JACKIE DIEBEL, PLANNING AND ZONING DIRECTOR, City of Roswell
FROM: Anna Roach, Executive Director, Atlanta Regional Commission

ARC has completed a regional review of the following proposal and made the below finding. ARC reviewed the proposed project's relationship to regional plans, goals, and policies and impacts it might have on the activities, plans, goals, and policies of other local jurisdictions and state, federal, and other agencies.

Name of Proposal: RC-23-01R City of Atlanta Replacement Water Main at Old Alabama and Riverside Roads
Submitting Local Government: City of Roswell

Date Opened: February 23, 2023	**Date Closed:** March 13, 2023

FINDING: ARC staff have completed a review of the application for a MRPA Certificate for this proposed project in the Chattahoochee River Corridor. ARC's finding is that the project is consistent with the Chattahoochee River Corridor Plan.

Additional Comments: Comments received from the National Park Service are attached and include the following: (1) wash and clean all equipment that may transport unwanted pests and use only native grass seed or vegetation to stablize area after construction; (2) after proper installation, maintain and repair BMP's to limit project effects on the river; (3) given that a recent survey shows that NPS owns the land where the sculpture, picnic tables, and trashcans are installed, use special care to limit or avoid impacts to park property; and (4) since project is located within the 100-year floodplain and is regularly flooded during large storm events, the floodplain should be returned to its original condition to maintain its beneficial functions. Additionally, it is recommended that the USACE Buford Dam Management Office be contacted before any ground disturbance as there is potential for site flooding during large storms.

THE FOLLOWING LOCAL GOVERNMENTS AND AGENCIES RECEIVED NOTICE OF THIS REVIEW:

ATLANTA REGIONAL COMMISSION	GEORGIA DEPARTMENT OF NATURAL RESOURCE	CHATTAHOOCHEE RIVERKEEPER
NATIONAL PARK SERVICE	GEORGIA CONSERVANCY	CITY OF ATLANTA
COBB COUNTY	CITY OF SANDY SPRINGS	

For questions, please contact Donald Shockey at (470) 378-1531 or dshockey@atlantaregional.org. This finding will be published to the ARC website at https://atlantaregional.org/plan-review

APPLICATION FOR
METROPOLITAN RIVER PROTECTION ACT CERTIFICATE

1. **Name of Local Government:** City of Roswell

2. **Owner(s) of Record of Property to be Reviewed:**
   Name(s): City of Atlanta, Department of Watershed Management
   Mailing Address: 72 Marietta Street
   City: Atlanta **State:** GA **Zip:** 30303
   Contact Phone Numbers (w/Area Code):
   Daytime Phone: 404.546.1356 **Fax:**
   Other Numbers:

3. **Applicant(s) or Applicant's Agent(s):**
   Name(s): Eskender Abebe - Benchmark Management LLC
   Mailing Address: 101 Marietta St. Nw, Suite 2000
   City: Atlanta **State:** GA **Zip:** 30303
   Contact Phone Numbers (w/Area Code):
   Daytime Phone: 404-581-9656 **Fax:**
   Other Numbers:

4. **Proposed Land or Water Use:**
   Name of Development: Old Alabama Road 48-ich Water Main Relocation
   Description of Proposed Use: Connection of proposed 48" water main to existing main due to widening of SR 400 for Express Lane Project.

5. **Property Description (Attach Legal Description and Vicinity Map):**
   Land Lot(s), District, Section, County: Land Lots 531 and 534 of the 1st District, 2nd Section, Fulton County, Georgia.
   Subdivision, Lot, Block, Street and Address, Distance to Nearest Intersection:
   At intersection of Riverside Drive and Old Alabama Road
   Size of Development (Use as Applicable):
   Acres: **Inside Corridor:** 3,171 SF OR 0.1 AC
   Outside Corridor: 13,400 SF OR 0.31 AC
   Total: 16,571 SF OR 0.38 AC
   Lots: **Inside Corridor:** N/A
   Outside Corridor: N/A
   Total: N/A
   Units: **Inside Corridor:** N/A
   Outside Corridor: N/A
   Total: N/A
   Other Size Descriptor (i.e., Length and Width of Easement):
   Inside Corridor: 2,125 LF (WITHIN R-O-W)
   Outside Corridor: 3,175 LF (WITHIN R-O-W)
   Total: 5,300 LF (WITHIN R-O-W) TOTAL LENGTH OF 48" DIP WM.

6. **Related Chattahoochee Corridor Development:**
   A. **Does the total development include additional land in the Chattahoochee Corridor that is not part of this application?** Yes
   If "yes", describe the additional land and any development plans: Installtion of 48" DIP Water Main from Intersection of Riverside Rd with Old Alabama Rd upto interesction of Market Blvd with Raintree Dr. See Plans.
   B. **Has any part of the property in this application, or any right-of-way or easement bordering this land, previously received a certificate or any other Chattahoochee Corridor review approval?** _____
   If "yes", please identify the use(s), the review identification number(s), and the date(s) of the review(s): _____

7. **How Will Sewage from this Development be Treated?**
   A. **Septic tank** N/A
   Note: For proposals with septic tanks, the application must include the appropriate local government health department approval for the selected site.
   B. **Public sewer system** N/A

8. **Summary of Vulnerability Analysis of Proposed Land or Water Use:**

Vulnerability Category	Total Acreage (or Sq. Footage)	Total Acreage (or Sq. Footage) Land Disturbance	Total Acreage (or Sq. Footage) Imperv. Surface	Percent Land Disturb. (Maximums Shown In Parentheses)	Percent Imperv. Surf. (Maximums Shown In Parentheses)
A				(90)	(75)
B				(80)	(60)
C				(70)	(45)
D				(50)	(30)
E	3,171 SF	956 SF	475 SF	(30) 30	(15) 15
F				(10)	(2)
Total:	3,171 SF	956 SF	475 SF	N/A	N/A

9. **Is any of this Land within the 100-Year Floodplain of the Chattahoochee River?** Yes
   If "yes", indicate the 100-year floodplain elevation: 867.6 Feet
   NOTE: **The 100-year river floodplain is defined as the natural land surface below the one hundred- (100) year flood elevations shown in the Flood Profiles of the most recent floodplain study for the Chattahoochee River approved by the United States Federal Emergency Management Agency for each Corridor jurisdiction.**
   NOTE: **All river 100-year floodplain is assigned to the "E" Category; its allowable allocations can be combined with those of other "E" land in the review. Also, 100-year floodplain cannot be reanalyzed and cannot accept transfers.**

10. **Is any of this land within the 500-year floodplain of the Chattahoochee River?** No
    If "yes", indicate the 500-year flood plain elevation: _____
    NOTE: **The 500-year floodplain is defined as the natural land surface below the five hundred- (500) year flood elevations shown in the Flood Profiles of the most recent floodplain study for the Chattahoochee River approved by the United States Federal Emergency Management Agency for each Corridor jurisdiction.**
    NOTE: **Plan Standards include a 35-foot height limit above the pre-construction grade within the 500-year floodplain (includes the 100-year floodplain). Adherence to this standard must be noted on the submitted plans (see Part 2.B.(4) of the Chattahoochee Corridor Plan).**

11. **The following is a checklist of information required to be attached as part of the application. Individual items may be combined.**

FOR ALL APPLICATIONS:

✓ **Description of land in the application and any additional land in the project (attach legal description or surveyed boundaries).**

✓ **Name, address, and phone number(s) of owner(s) of record of the land in the application. (Space provided on this form)**

✓ **Written consent of all owners to this application. (Space provided on this form)**

✓ **Name, address, and phone number(s) of applicant or applicant's agent. (Space provided on this form)**

✓ **Description of proposed use(s). (Space provided on this form)**

✓ **Existing vegetation plan.**

N/A **Proposed grading plan.**

✓ **Certified as-builts of all existing land disturbance and impervious surfaces.**

✓ **Approved erosion control plan.**

✓ **Detailed table of land-disturbing activities. (Both on this form and on the plans)**

✓ **Plat-level plan showing (as applicable): lot boundaries; any other sub-areas; all easements and rights-of -way; 100- and 500-year river floodplains; vulnerability category boundaries; topography; any other information that will clarify the review.**

N/A **Documentation on adjustments, if any.**

N/A **Cashier's check or money order (for application fee).**

FOR SINGLE-STEP APPLICATIONS (NON-SUBDIVISION):

✓ **Site plan.**

✓ **Land-disturbance plan.**

FOR TWO-STEP SINGLE-FAMILY SUBDIVISION APPLICATIONS ONLY:

____ **Concept plan.**

____ **Lot-by-lot and non-lot allocation tables.**

12. **I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act: (use additional sheets as necessary)**

ALEX MOHAJER

Alex Mohajer 2-2-2023

Signature(s) of Owner(s) of Record **Date**

13. **I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act:**

Eskender Abebe 2/2/2023

Signature(s) of Applicant(s) or Agent(s) **Date**

14. **The governing authority of** City of Roswell **requests review by the Atlanta Regional Commission of the above-described use under the Provisions of the Metropolitan River Protection Act.**

Jackie Deibel 2/7/23

Signature of Chief Elected Official or Official's Designee **Date**

United States Department of the Interior

National Park Service
Chattahoochee River
National Recreation Area
1978 Island Ford Parkway
Sandy Springs, GA 30350

IN REPLY REFER TO:

1.A.2

March 6, 2023

Donald Shockey
Atlanta Regional Commission
229 Peachtree Street NE
Suite 100
Atlanta, Georgia 30303

Dear Mr. Shockey:

This letter is a notification of receipt of the MRPA Review Notification RC-23-01R City of Atlanta Replacement Water Main in Fulton County, Georgia. This project will involve the relocation of a 48-inch water main to accommodate the widening of Georgia 400. The analysis estimates that 956 sqft of land disturbance and 475 sqft of impervious area meet the criteria for vulnerability category E.

Congress established the Chattahoochee River National Recreation Area (CRNRA), a unit of the National Park Service (NPS), in 1978 to assure the preservation and protection of a 48-mile stretch of the Chattahoochee River from Buford Dam to Peachtree Creek. CRNRA consists of the river and its bed along with the lands, waters, and interests within the park's authorized boundary. Congress expressly provided the Secretary of the Interior, acting through the National Park Service (NPS) and CRNRA, with the authority to protect the "natural, scenic, recreation, historic and other values" of the Chattahoochee River. We are concerned that the project could cause detrimental impacts to park resources if proper Best Management Practices (BMPs) are not followed and maintained. It is with these concerns in mind that NPS offers the following comments and recommendations:

<u>Introduce/Promote Non-native Species</u>
Construction activities have the potential to transport exotic invasive plant and animal species. **Recommendation:** We request that all equipment be washed and cleaned of mud and debris that may transport unwanted pests before being brought on-site. The NPS encourages the project applicant to use only native grass seed or native vegetation for stabilizing the project area following construction. This project is adjacent to NPS property and non-native species are easily transported downstream and can start new colonies in CRNRA.

<u>Erosion and Sedimentation</u>
In general, to protect the stream and water quality during construction, Best Management Practices (BMPs) should be designed and implemented to comply with the standards and specifications outlined in the *Manual for Erosion and Sediment Control in Georgia* (Georgia

Soil and Water Conservation Commission). An approved erosion and sedimentation control plan should be implemented before soil disturbances occur within the project site to avoid violating the Erosion and Sedimentation Act of 1975.
This project will impact a stream that flows directly into the Chattahoochee River. Currently, the Chattahoochee River at the proposed project site is listed as impaired on the state of Georgia's 303(d) listing for not fully meeting its designated uses. CRNRA is vested in improving the current state of this water body, and any addition of sediment or run-off would further disrupt the current water quality condition. Due to the proximity of this proposed project to the Chattahoochee River, caution is advised to prevent a flush of sediment deposits during the construction process.
Recommendation: After proper installation, continued and unfailing maintenance and repair of the BMP's should be guaranteed in order to ensure their effectiveness and specifically to control, as far as possible, the effects of this project on the river.

Disturbance to NPS land
The project is located adjacent to NPS land that was previously assumed to be owned by the City of Roswell. A recent survey has confirmed that NPS has the underlying land ownership in the area where the sculpture, picnic tables, and trashcans are installed.
Recommendation: We request special care be taken to ensure the project stays off areas where NPS is the underlying landowner as the plan currently indicates to eliminate any impacts to park property.

Floodplain
This project is located within the 100-year floodplain and during large storm events, the site is regularly underwater.
Recommendation: After construction, the floodplain should be returned to its original condition to maintain its beneficial functions. Additionally, we recommend the project manager contact USACE Buford Dam Management Office before any ground disturbance as there is potential for site flooding during large storm events.

We appreciate your consideration of these comments. Please feel free to contact park's Chief of Planning, Resources, and Education, Beth Wheeler, directly if you have any questions or concerns that we could help to address. She can be reached at 678-538-1321 or by email at Beth_Wheeler@nps.gov.

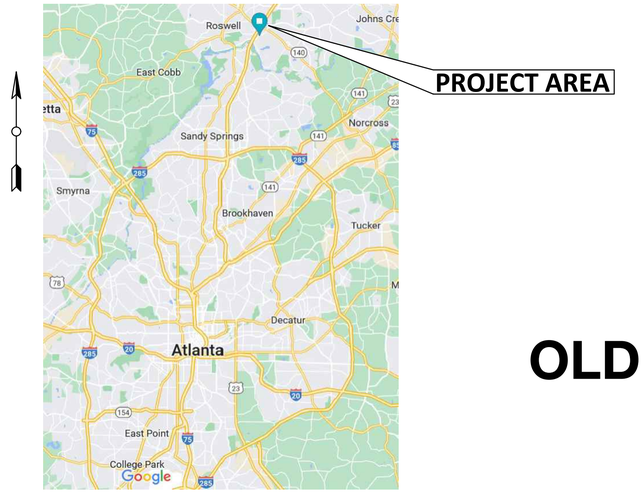
Sincerely,

Ann Honious
Superintendent

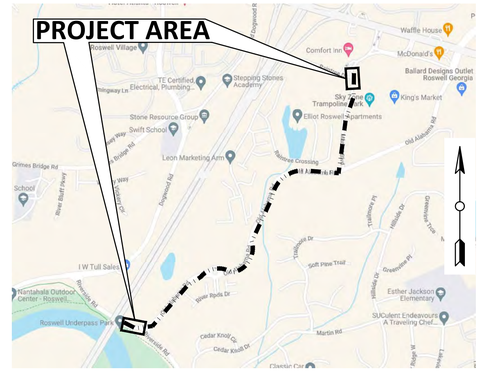
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
OFFICE OF ENGINEERING SERVICES

CITY OF ATLANTA
ANDRE DICKENS
MAYOR

DEPARTMENT OF WATERSHED MANAGEMENT
MIKITA BROWNING
COMMISSIONER



VICINITY MAP
NTS



LOCATION MAP
NTS

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE ROAD: STA. 0+00 TO 1+00

MARKET BOULEVARD: STA. 52+00 TO 53+00

ISSUED FOR CONSTRUCTION
NOVEMBER 11, 2022

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

CAUTION
THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN TEAM ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JN
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHWENDER, ABEBE
2/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME: **COVER SHEET**

DATE: **DECEMBER 23, 2022**
ISSUED FOR: **CONSTRUCTION**
SHEET NUMBER: **G 00.01**

PLOT DATE: 12/22/2022 1:13 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\GENERAL SHEETS\COVER SHEET - PHASE 2 (IFC).DWG

DRAWING INDEX

SHEET NUMBER	SHEET NAME
G 00.01	COVER SHEET
G 00.02	DRAWING INDEX
G 00.03	GENERAL CONSTRUCTION NOTES
C 03.01	WATER PLAN AND PROFILE
C 03.11	WATER PLAN AND PROFILE
C 03.01A	TIE-IN PHASING PLAN PHASE II.A
C 03.01B	TIE-IN PHASING PLAN PHASE II.B
C 03.01C	TIE-IN PHASING PLAN PHASE II.C
C 03.11A	TIE-IN PHASING PLAN PHASE II.A
C 03.11B	TIE-IN PHASING PLAN PHASE II.B
C 03.11C	TIE-IN PHASING PLAN PHASE II.C
ES 00.01	EROSION AND SEDIMENT CONTROL COVER SHEET (UPDATED SHEET)
ES 00.02	EROSION AND SEDIMENT CONTROL DRAWING INDEX
ES 0.03	EROSION AND SEDIMENT CONTROL GENERAL NOTES
ES 0.03A	EROSION AND SEDIMENT CONTROL GENERAL NOTES (CONTINUED)
ES 00.04	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND CHECK LIST
ES 00.05	EROSION AND SEDIMENT CONTROL NDPES MAPS
ES 00.06	EROSION AND SEDIMENT CONTROL NDPES MAPS (CONT.)
ES 00.07	EROSION AND SEDIMENT CONTROL NDPES MAPS - ARC METROPOLITAN RIVER PROTECTION ACT MAP
ES 01.01	EROSION AND SEDIMENT CONTROL (INITIAL STAGE) - PLAN 1 OF 2 (UPDATED SHEET)
ES 01.02	EROSION AND SEDIMENT CONTROL (INITIAL STAGE) - PLAN 2 OF 2 (UPDATED SHEET)
ES 02.01	EROSION AND SEDIMENT CONTROL PLAN (INTERMEDIATE AND FINAL STAGE) - PLAN 1 OF 2 (UPDATED SHEET)
ES 02.02	EROSION AND SEDIMENT CONTROL PLAN (INTERMEDIATE AND FINAL STAGE) - PLAN 2 OF 2 (UPDATED SHEET)
ES 05.01	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.02	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.03	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.04	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.05	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.06	EROSION AND SEDIMENT CONTROL DETAILS (UPDATED SHEET)
T 02.01	TRAFFIC CONTROL GENERAL NOTES
T 02.02	TRAFFIC CONTROL PLAN SHEET 1 OF 2
T 02.03	TRAFFIC CONTROL PLAN SHEET 2 OF 2
T 02.04	TRAFFIC CONTROL DETAILS

D 06.01	CONSTRUCTION DETAILS
D 06.02	CONSTRUCTION DETAILS
D 06.03	CONSTRUCTION DETAILS

PLOT DATE: 1/3/2023 12:08 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\GENERAL SHEETS\COVER SHEET - PHASE 2 (IFC).DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JN
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHENDER ABEBE
2/2/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS

NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

RESURGENS ATLANTA
CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
DRAWING INDEX

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
G 00.02

SURVEY NOTES:

1. THE SURVEY WAS MADE USING AN ELECTRONIC TOTAL STATION READING TO 01 SECOND, LEICA TS06.

2. THE FIELD DATA FROM WHICH THIS PLAT OR MAP WAS COMPUTED WAS FOUND TO BE ACCURATE TO WITHIN ONE PART IN 51,888 PARTS OR BETTER AND AN ANGULAR ERROR OF NO GREATER THAN 1.69 SECONDS PER ANGLE POINT.

3. ALL DISTANCES ARE SHOWN IN US SURVEY DECIMAL FEET (39.37 INCHES = 1 METER)) UNLESS OTHERWISE NOTED.

4. CONTOUR INTERVAL, AS DEPICTED HEREON, IS 1 FOOT.

5. THE PROJECT HORIZONTAL DATUM IS RELATIVE TO THE NORTH AMERICAN DATUM 1983, (NAD83(2011)) ADJUSTMENT, PROJECTED TO THE GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE.

6. THE PROJECT VERTICAL DATUM IS RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

7. THE FIELD SURVEY WAS COMPLETED ON 05-14-2021; DATE OF PLAT: 05-28-2021.

8. THE UTILITY SURVEY IS COORDINATED WITH LOCAL UTILITY COMPANIES TO CONFIRM THE GENERAL LOCATION OF THEIR UTILITIES BASED UPON RECORDS RESEARCH AND GA811 NOTIFICATIONS. ADDITIONALLY, SITE RESEARCH OF ANY EXISTING SITE/HISTORICAL UTILITY MAPS AVAILABLE HAS BEEN CONDUCTED AND COUPLED WITH FIELD VERIFICATIONS.

   UTILITIES HAVE BEEN DESIGNATED IN THE FIELD BY UTILIZING RF & GPR TECHNOLOGY AS APPLICABLE AND AS SUCH, UTILITIES NOT OBSERVED OR WHICH CANNOT BE LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON SITE AND MAY BE FOUND UPON EXCAVATION.

   THE UTILITY SURVEY WAS CONDUCTED BASED UPON AVAILABLE UTILITY COMPANY RECORDS, SITE RECORDS AS WELL AS VISIBLE UTILITY SITE FEATURES & APPURTENANCES.

   UNDERGROUND UTILITIES MAY EXIST WITHIN PROJECT LIMITS THAT ARE NON-FIELD TRACEABLE DUE TO MATERIAL TYPE, DEPTH AND /OR MANNER OF INSTALLATION. THESE MATERIAL TYPES INCLUDE BUT ARE NOT LIMITED TO: HDPE AND PVC WITHOUT TRACER WIRE, ASBESTOS CEMENT, TRANSITE, COMPOSITE NON-JACKETED FIBER OPTIC AND CAST IRON.

   DESIGN BUILDER WILL FIELD VERIFY DEPTH OF UTILITY LOCATION. DESIGN BUILDER WILL CONTACT GA811 ONCE CONSTRUCTION ACTIVITIES BEGIN IN SITE.

9. SURVEYOR CONTACT INFORMATION IS:

   DAN RICEMAN, RLS

   LONG ENGINEERING INC.

   DRICEMAN@LONGENG.COM

   770-951-2495 (OFFICE)

CITY OF ROSWELL GENERAL CONSTRUCTION NOTES

1. A PRECONSTRUCTION MEETING WITH THE LAND DISTURBANCE INSPECTOR IS REQUIRED PRIOR TO RELEASE OF THE LAND DISTURBANCE PERMIT.

2. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK WITHIN THE PUBLIC RIGHT OF WAY FROM THE ROSWELL DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE. CONTACT JOHN WOOTEN FOR ENCROACHMENT PERMITS AND TRAFFIC CONTROL PLAN APPROVAL AT 770-594-6108.

3. A TREE REMOVAL PERMIT IS REQUIRED FOR ALL TREES 3-INCH CALIPER OR GREATER; AND FOR REMOVAL OF SPECIMEN TREES.

4. TREE PROTECTION FENCING MUST BE INSTALLED AND APPROVED BY THE CITY ARBORIST PRIOR TO ISSUANCE OF THE LAND DISTURBANCE PERMIT, AS APPLICABLE. CONTACT THE CITY ARBORIST AT 770-594-6293 FOR INSPECTION WHENEVER SPECIMEN TREES, BUFFERS, OR TREE SAVE AREAS ARE LOCATED ON OR ADJACENT TO THE SITE.

5. CONSTRUCTION IS ONLY ALLOWED MON.-SAT. BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM; HOWEVER THIS DOES NOT APPLY TO ANY PERSON PERFORMING CONSTRUCTION ACTIVITY AT HIS OR HER RESIDENCE, BUT SUCH PERSONS ARE SUBJECT TO THE NOISE RESTRICTIONS SET OUT IN SUBSECTION 8.8.3(S) OF THE CITY CODE.

6. ALL CONSTRUCTION SHALL MINIMALLY COMPLY WITH THE CITY OF ROSWELL STANDARD CONSTRUCTION SPECIFICATIONS AND SUBDIVISION REGULATIONS AND THE BEST MANAGEMENT PRACTICES AS SET FORTH IN THE CITY OF ROSWELL SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL ORDINANCE.

7. NO GRADING SHALL BE DONE UNTIL THE INITIAL EROSION CONTROL INSTALLATION PASSES INSPECTION, AND A LAND DISTURBANCE NOTIFICATION IS ISSUED BY THE LAND DEVELOPMENT INSPECTOR.

8. CONTRACTOR MUST NOTIFY LAND DEVELOPMENT INSPECTOR TWENTY-FOUR (24) HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT THE BEGINNING OF EACH NEW PHASE OR AFTER A LULL OF MORE THAN 14 DAYS. CONTACT YOUR LAND DISTURBANCE INSPECTOR TO SCHEDULE INSPECTIONS.

9. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

10. BURNING OF DEBRIS OR CONSTRUCTION MATERIALS IS NOT PERMITTED WITHIN THE CITY OF ROSWELL.

11. BURIAL OF CONSTRUCTION MATERIALS IS NOT PERMITTED WITHIN THE CITY OF ROSWELL.

12. THE DESIGN-BUILDER WILL COORDINATE WITH THE US ARMY CORPS OF ENGINEERS CONCERNING PERMITS OR REQUIREMENTS WHEN WETLANDS OR STREAMS ARE PROPOSED TO BE DISTURBED ON THE PROPERTY.

13. A CITY OF ROSWELL TRENCHING PERMIT IS REQUIRED PRIOR TO ANY TRENCHING ACTIVITY. CONTACT YOUR CITY OF ROSWELL LAND DEVELOPMENT INSPECTOR TO OBTAIN A TRENCHING PERMIT.

14. NO ADDITIONAL DRAINAGE AREAS SHALL BE DIVERTED ONTO CITY RIGHT-OF-WAY UNLESS SHOWN ON THE APPROVED SITE PLAN(S).

15. ALL CORRUGATED METAL STORM DRAINPIPE SHALL BE FULLY BITUMINOUS-COATED GALVANIZED STEEL OR ALUMINIZED TYPE II WITH RE-ROLLED ENDS AND BANDS.

16. ALL EXTERIOR LIGHTING SHALL BE PLACED SO AS NOT TO DIRECTLY ILLUMINATE ADJACENT PROPERTY.

17. AS-BUILT PLANS OF ALL STORMWATER MANAGEMENT FACILITIES SHALL BE APPROVED BY THE CITY OF ROSWELL ENGINEERING DIVISION PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, CERTIFICATE OF COMPLETION, RELEASE OF BONDS, OR CLOSEOUT OF THE LAND DISTURBANCE PERMIT, AS APPLICABLE. AS-BUILT PLANS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE APPROVED HYDROLOGY STUDY AND CONSTRUCTION PLANS. ALL AS-BUILT DOCUMENT SUBMITTALS ARE TO BE PROVIDED IN ACCORDANCE WITH THE CITY'S DIGITAL DATA SUBMISSION STANDARDS AS FOUND ON THE CITY OF ROSWELL WEBSITE.

18. PIPE DELIVERED TO THE PROJECT WILL BE STAGED ALONG THE ROUTE OF CONSTRUCTION INSTALLATION TO MINIMIZE CONSTRUCTION DELAYS AND CONSTRUCTION EQUIPMENT TRAFFIC ON CITY STREETS. PROPER STORAGE FOR SAFETY AND SECURITY SHALL BE STRICTLY ADHERED TO.

19. IN THE EVENT OF CONFLICT BETWEEN INFORMATION ON DRAWINGS VERSUS SPECIFICATIONS, THE DRAWINGS WILL TAKE PRECEDENCE.

TECHNICAL CONSTRUCTION NOTES:

1. DESIGN BUILDER IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS & ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.

2. THE DESIGN BUILDER LOCATE, EXCAVATE AND EXPOSE ALL EXISTING LINES, 500-FEET IN ADVANCE OF TRENCHING OPERATIONS. THE DESIGN BUILDER SHALL ADJUST THE GRADE OF PIPE WORK UP OR DOWN, OR SIDE TO SIDE TO MISS EXISTING UTILITIES.

3. ALL DUCTILE IRON PIPES, FITTINGS AND VALVES TO BE ZINC COATED.

4. DESIGN BUILDER IS RESPONSIBLE FOR ALL TRAFFIC CONTROL PLANNING, CITY OF ROSWELL APPROVAL, MESSAGE BOARDS AND BARRICADES PER PERMIT REQUIREMENTS. REFER TO CITY OF ROSWELL ENCROACHMENT PERMIT.

5. DESIGN BUILDER IS RESPONSIBLE FOR SUPPORTING EXISTING UTILITIES AT ALL CROSSINGS.

6. DESIGN BUILDER SHALL CAP THE LINES AT THE END OF THE DAY WITH WATERTIGHT CAP.

7. NOTE DELETED.

8. DESIGN BUILDER SHALL BE RESPONSIBLE FOR DECHLORINATING FLUSHING WATER TO ZERO (0) PARTS PER MILLION (PPM) FROM CHLORINE.

9. DESIGN BUILDER SHALL MONITOR FLUSHING OPERATION TO PREVENT FLOODING OF PRIVATE PROPERTY OR STREETS.

10. A SPECIALTY CONTRACTOR WILL BE REQUIRED FOR CHLORINATION/DECHLORINATION OF WATER MAINS 24" AND LARGER.

11. THE OUTSIDE DIAMETER OF EXISTING PIPES SHALL BE MEASURED TO GET THE TRUE OUTSIDE DIMENSION PRIOR TO ORDERING THE PIPE MATERIALS. SUPPLY APPROPRIATE GASKET FOR SOLID SLEEVE. CONNECTION TO EXISTING WATER MAINS SHALL NOT COMMENCE WATER MAINS SHALL NOT COMMENCE UNTIL VERIFICATION OF LOCATION, DIAMETER, ELEVATION, AND MATERIAL, AS APPLICABLE, HAS BEEN PERFORMED BY THE DESIGN BUILDER.

12. DESIGN BUILDER SHALL PROVIDE AND POST TEMPORARY SIDEWALK CLOSURE SIGNS DURING CONSTRUCTION. THE SIGN SHALL INDICATE THE LIMITS OF THE CLOSURE FROM A TO B, AN ALTERNATE ROUTE (IF APPLICABLE). AN ESTIMATED COMPLETION DATE, AND CONTACT INFORMATION FOR COA.

13. ANY DETAILS NOT SHOWN SHALL COMPLY WITH COA MINIMUM STANDARDS AND CONSTRUCTION DETAILS.

14. ADJUST SERVICE LINES AS REQUIRED TO ACCOMMODATE THE PROPOSED 48-INCH WATER LINE.

15. ALL SEWER SERVICE LINES TO BE FIELD VERIFIED (ELEVATION @ CROSSING).

16. PAVEMENT MARKINGS AND STRIPING ON CITY OF ROSWELL ROADS TO BE THERMOPLASTIC AND PER CITY OF ROSWELL AND MUTCD STANDARDS.

17. ALL VALVE BOXES, MANHOLES, ETC. SHALL BE RAISED WHEN RESURFACING ASPHALT.

18. PIPE RESTRAINTS FOR THE LINE-STOPS AT BOTH TIE-IN LOCATIONS ON THE EXISTING 48-INCH WATER MAIN IS CALCULATED USING THE DIPRA THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE. PLANS FOR THE EXISTING 48-INCH SHOW THAT THE PIPE HAS ADEQUATE RESTRAINT. SEE TABLE BELOW FOR REQUIRED RESTRAINT LENGTH CALCULATIONS.

Thrust Restraint for 48" DIP Water Main			
	Angle of Bend(°)	Restrained Length (ft)	Frictional Force (lbs)
Horizontal and Vertical Up	11.25	16.6	27,456
	22.5	33.5	55,409
	45	69.8	115,449
	90	168.6	278,864
Vertical Down	11.25	45.2	74,761
	22.5	91.4	151,176
	45	190.3	314,756
	90	459.4	759,848

*Values calculated based on DIPRA Thrust Restraint Design for Ductile Iron Pipe

Assumptions
Unit Frictional Force = 1654lbs/ft based on the following assumptions:
Laying Condition : Type 4
Soil Designation: Silt 2
Depth of Cover: 4'
Design pressure: 250 PSI
Safety Factor: 1.5
48"-90 degree bend equivalent to a 48" x 36" line-stop
Conclusions
Appr. Sta. 0+00 (Riverside Road)
Negligible lateral force against the line-stop at this location. The buried existing 150 Ft. 48" and earth load upstream of line-stop provide adequate resistant force against lateral thrust force against joint separation.

Appr. Sta. 52+00 (Market Blvd.)
Required restraints length = 169 ft.
Available restraints length = 421 ft.

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FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\GENERAL SHEETS\GENERAL CONSTRUCTION NOTES - PH 2.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JN
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESMENDER ABEBE
2/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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A	08/05/2022	75% DESIGN SUBMITTAL
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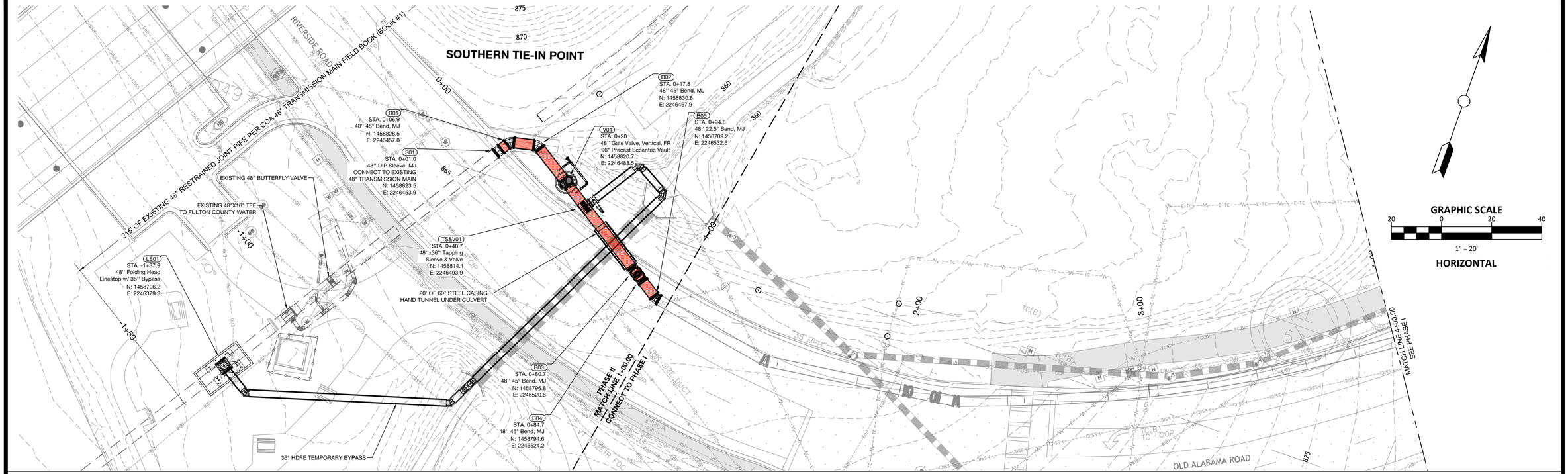
CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
GENERAL CONSTRUCTION NOTES

DATE
DECEMBER 23, 2022

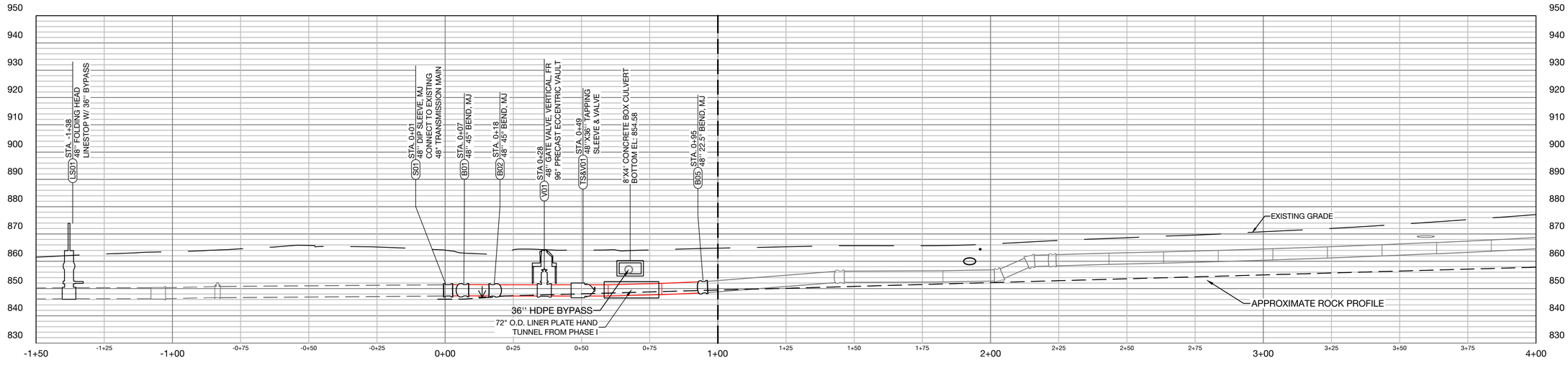
ISSUED FOR
CONSTRUCTION

SHEET NUMBER
G 00.03



PIPE LEGEND

COLOR	TYPE OF PIPE	MAX JOINT DEFLECTION
	FLEX RING DIP (RESTRAINED)	2°
	FASTITE DIP (PUSH-ON)	3°
	FASTITE EXTRA DEFLECTION BELL DIP (PUSH-ON)	4°



RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025738 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS

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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
WATER PLAN AND PROFILE

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.01

PLOT DATE: 12/22/2022 6:43 PM
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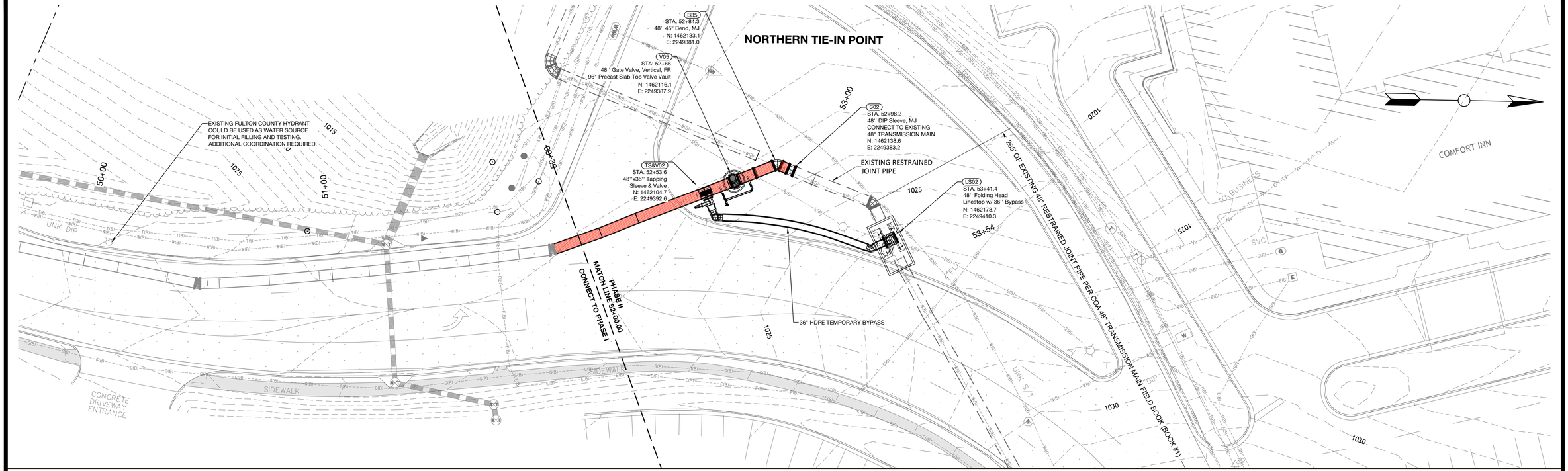

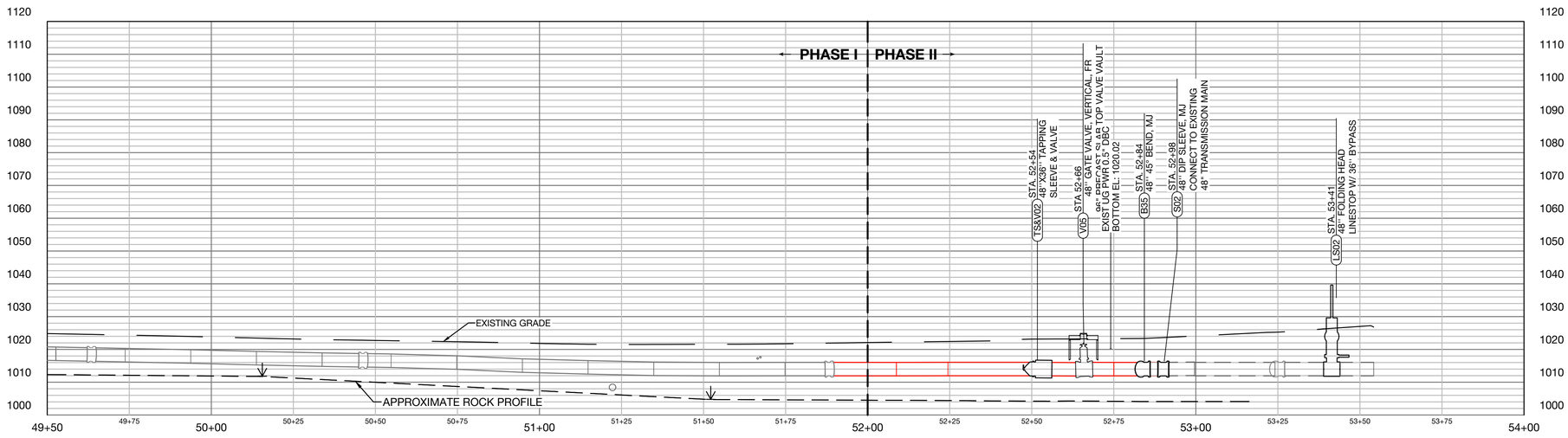

GRAPHIC SCALE

20 0 20 40

1" = 20'

HORIZONTAL

PIPE LEGEND

COLOR	TYPE OF PIPE	MAX JOINT DEFLECTION
	FLEX RING DIP (RESTRAINED)	2°
	FASTITE DIP (PUSH-ON)	3°
	FASTITE EXTRA DEFLECTION BELL DIP (PUSH-ON)	4°

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	SB
DRAWN BY	SB
CHECKED BY	EA
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/23/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS

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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

WATER PLAN AND PROFILE

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.11

PLOT DATE: 12/22/2022 6:57 PM
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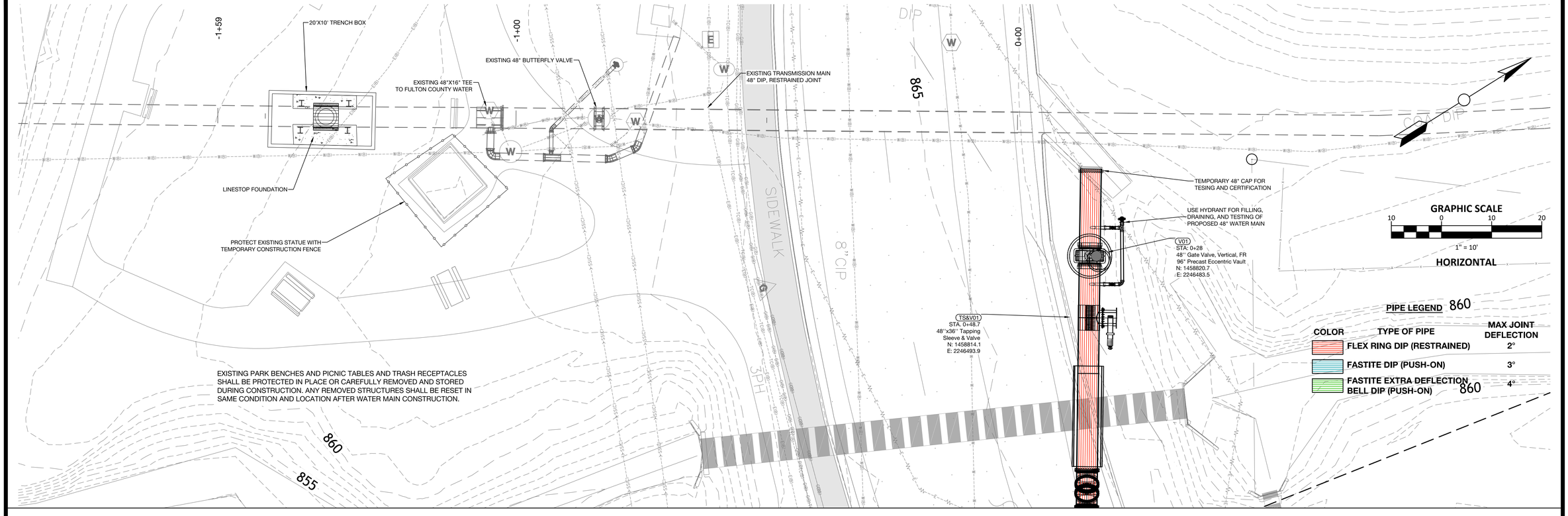
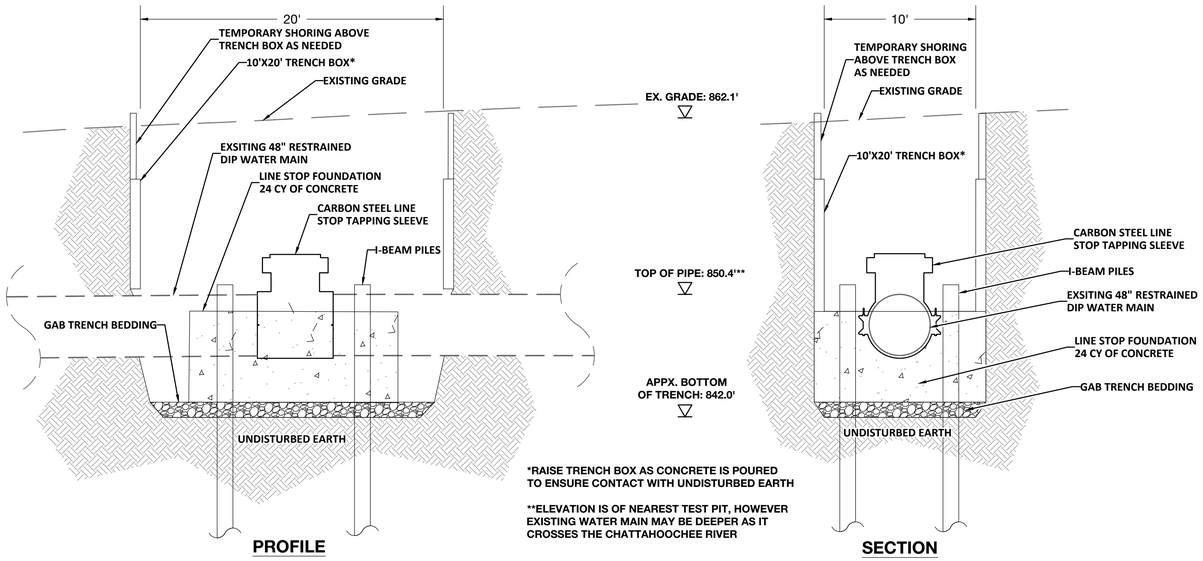


LINESTOP FOUDATION DETAIL



*RAISE TRENCH BOX AS CONCRETE IS POURED TO ENSURE CONTACT WITH UNDISTURBED EARTH

**ELEVATION IS OF NEAREST TEST PIT, HOWEVER EXISTING WATER MAIN MAY BE DEEPER AS IT CROSSES THE CHATTAHOOCHEE RIVER

OLD ALABAMA ROAD WORK PLAN

THIS 48" TRANSMISSION MAIN IS CRITICAL TO THE OPERATION OF CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT'S DISTRIBUTION SYSTEM. ACCORDING TO OPERATIONS STAFF, THIS DISTRIBUTION MAIN SUPPLIES AROUND 30% OF THE CITY OF ATLANTA'S DEMAND. SERVICE IN THIS TRANSMISSION MAIN CANNOT BE INTERRUPTED AT ANY POINT DURING CONSTRUCTION. THIS WILL BE ACHIEVED BY THE USE OF 48" FOLDING HEAD, FLOW-THOUGH LINE STOPS WITH 36" BYPASS LINES. THE FOLLOWING WORK PLAN HAS BEEN DEVELOPED TO MEET THIS REQUIREMENT.

1. CONSTRUCT PROPOSED 48" WATER MAIN WITHIN 20' OF TIE-IN POINTS. EACH END OF THE CONSTRUCTED PIPE WILL HAVE A 48" X 36" TAPPING SLEEVE AND VALVE ASSEMBLY (TS&V) FOR BYPASS AND A 48" GATE VALVE AT THE END. ENSURE THAT THE 36" BYPASS VALVES ARE CLOSED.

2. INSTALL LINE STOP SLEEVE AND CONSTRUCT LINE STOP FOUNDATIONS CONCURRENTLY WITH THE COMPLETION OF PHASE I CONSTRUCTION.

...

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025738 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
TIE-IN PHASING PLAN PHASE II.A

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.01A

PLOT DATE: 12/22/2022 12:19 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\PLAN AND PROFILE\C-WATR-PH2.DWG

OLD ALABAMA ROAD WORK PLAN

...

3. INSTALL 48" FOLDING HEAD LINE STOP (LS01) SOUTH OF RIVERSIDE DRIVE NEAR SOUTHERN TIE-IN POINT BUT DO NOT ENGAGE FOLDING HEAD.
4. INSTALL 36" BYPASS FROM (TS&V01) ON PROPOSED 48" WATER MAIN TO BYPASS PORT ON FOLDING HEAD LINE STOP (LS01).
5. INSTALL 36" BYPASS FROM (TS&V02) ON PROPOSED 48" WATER MAIN TO BYPASS PORT ON FOLDING HEAD LINE STOP (LS02).
6. FILL AND EQUALIZE PRESSURE IN PROPOSED WATER MAIN USING EXISTING HYDRANT.
7. PRESSURE TEST NEW 48" MAIN IN ACCORDANCE WITH THE HYDROSTATIC TESTING REQUIREMENTS AS OUTLINED IN SPECIFICATION SECTION 33 13 00
8. CHLORINATE AND BACTERIA TEST NEW 48" MAIN IN ACCORDANCE WITH THE DISINFECTION PROCEDURES AS OUTLINED IN SPECIFICATION SECTION 33 10 00
9. OPEN VALVES (TS&V01) AND (TS&V02) TO ACTIVATE PROPOSED 48" MAIN VIA THE 36" BYPASSES.
10. ENGAGE 48" FOLDING HEAD LINE (LS02) STOP ON NORTH END.
11. ENGAGE 48" FOLDING HEAD LINE STOP (LS01) ON SOUTHERN END TO ISOLATE EXISTING 48" MAIN.
12. BEGIN DRAINING EXISTING 48" MAIN USING EXISTING HYDRANT.
13. WHILE EXISTING 48" MAIN IS DRAINING, CUT IN NORTHERN TIE-IN POINT: CONNECT TO EXISTING 48" MAIN USING 48" MECHANICAL JOINT SLEEVE (S02).
14. OPEN 6" EQUALIZATION VALVE AROUND (V05) TO PRESSURIZE NORTHERN TIE-IN POINT.
15. DISENGAGE NORTHERN FOLDING HEAD LINE STOP (LS02).
16. OPEN NEW NORTHERN 48" GATE VALVE (V05).
17. CLOSE NORTHERN 36" BYPASS VALVE (TS&V02).
18. ONCE EXISTING 48" MAIN IS COMPLETELY DRAINED, CUT IN SOUTHERN TIE-IN POINT: CONNECT TO EXISTING 48" MAIN USING 48" MECHANICAL JOINT SLEEVE (S02).
19. OPEN 6" EQUALIZATION VALVE AROUND (V01) TO PRESSURIZE SOUTHERN TIE-IN POINT.
20. DISENGAGE SOUTHERN FOLDING HEAD LINE STOP (LS01) ON SOUTHER END.
21. OPEN NEW SOUTHERN 48" GATE VALVE (V01).
22. CLOSE SOUTHERN 36" BYPASS VALVE (TS&V01).

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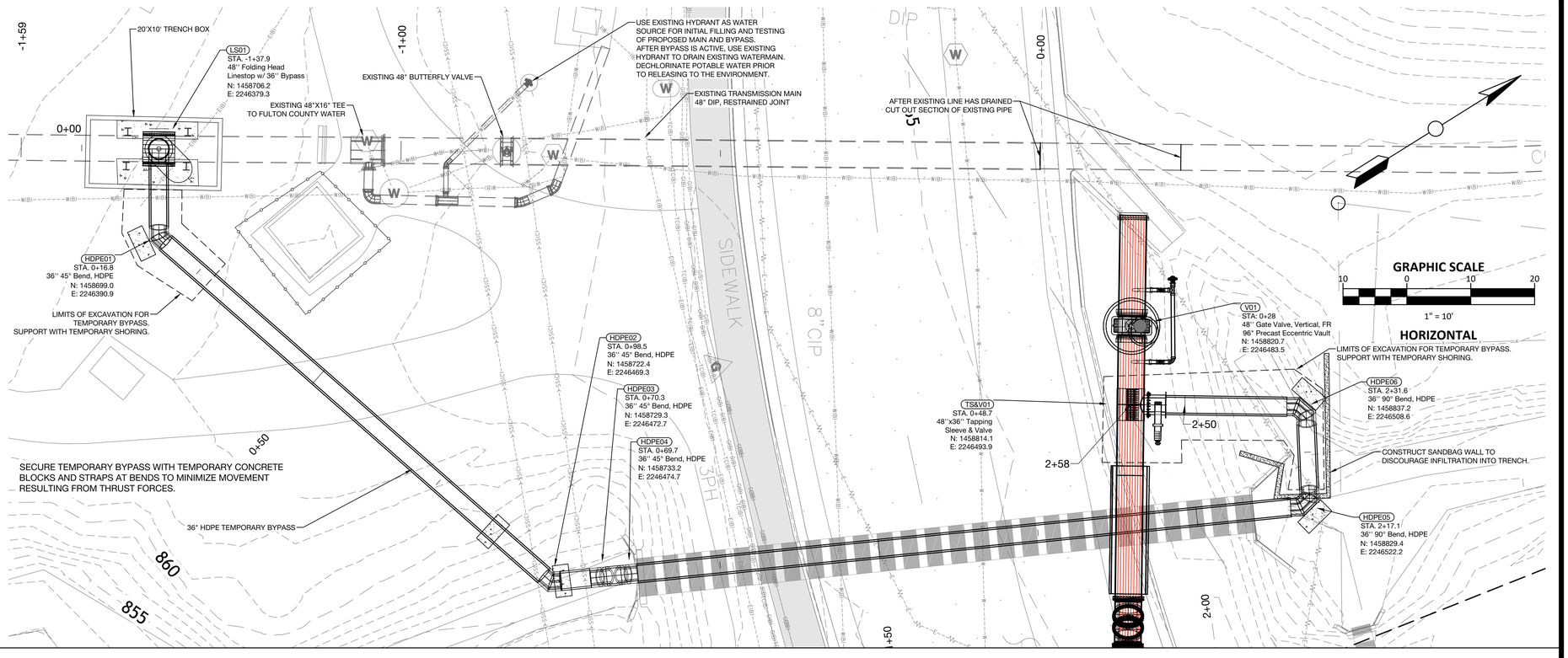

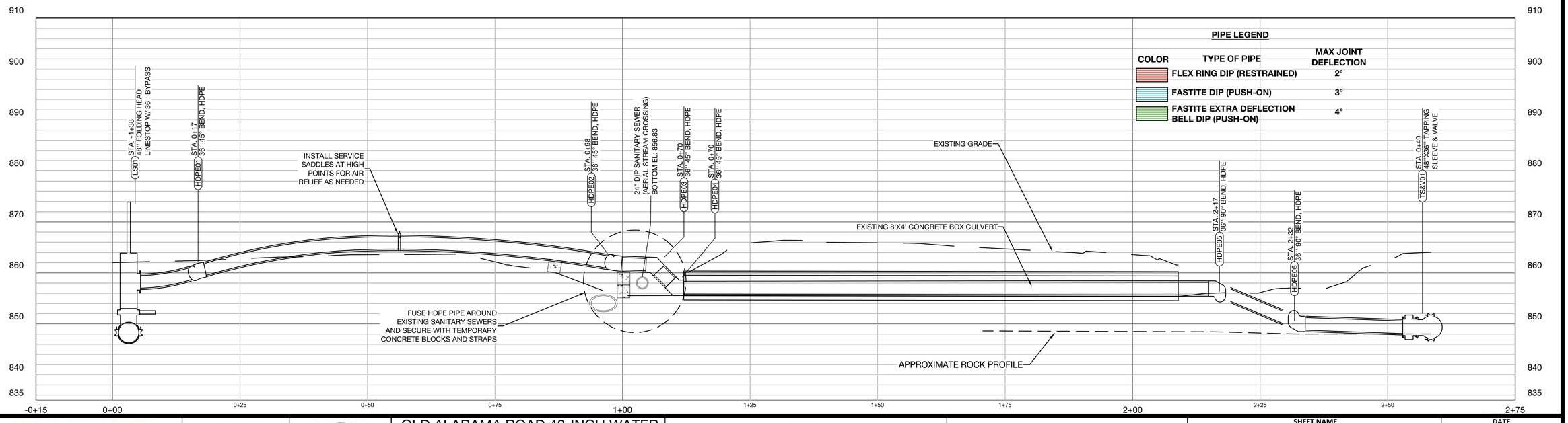

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RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025738 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

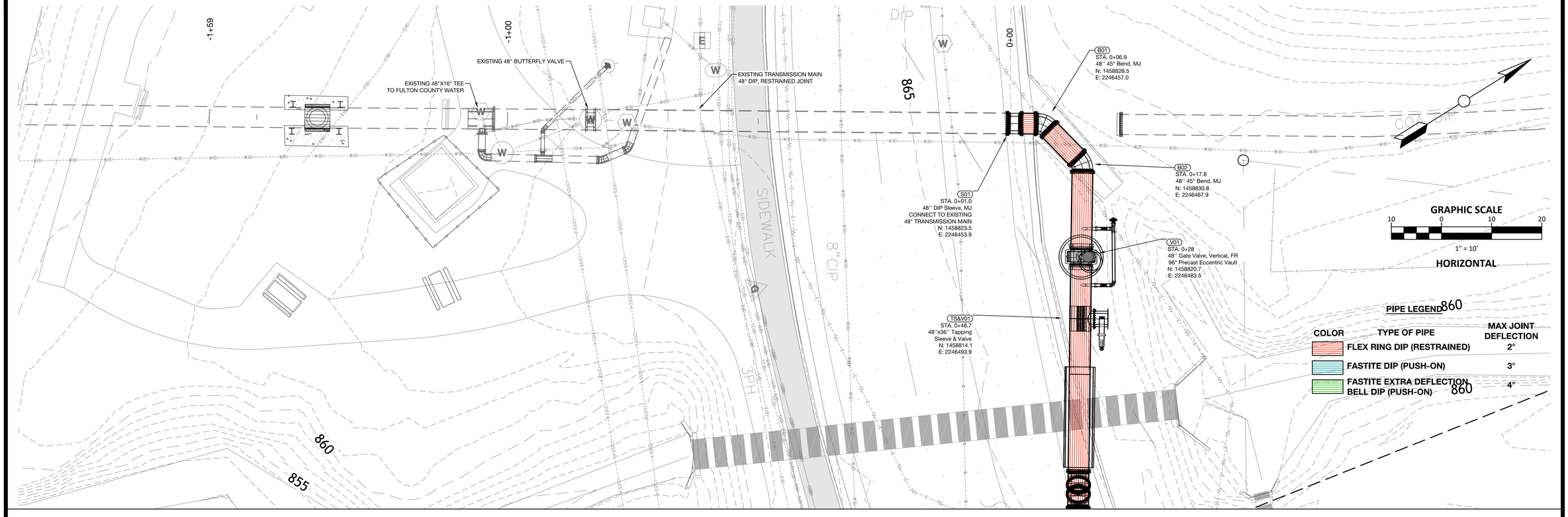
CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
TIE-IN PHASING PLAN PHASE II.B

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.01B



OLD ALABAMA ROAD WORK PLAN

...

23. REMOVE NORTHERN 48" LINE STOP (LS02) AND 36" TEMPORARY BYPASS.
24. REMOVE SOUTHERN 48" LINE STOP (LS01) AND 36" TEMPORARY BYPASS.
25. CAP 36" BYPASS VALVES (TS&V01) AND (TS&V02).
26. CAP AND GROUT FILL ABANDONED 48" WATER MAIN.
27. BACKFILL AND RESTORE EXCAVATION AREA.

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025738 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
TIE-IN PHASING PLAN PHASE II.C

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.01C

PLOT DATE: 12/22/2022 7:30 PM
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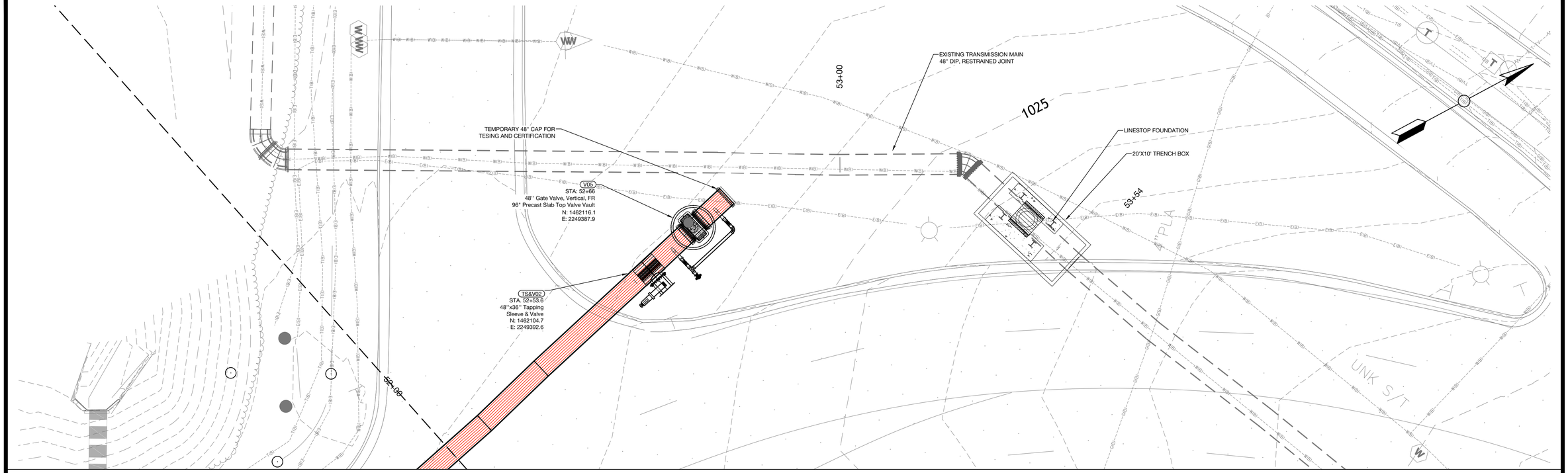


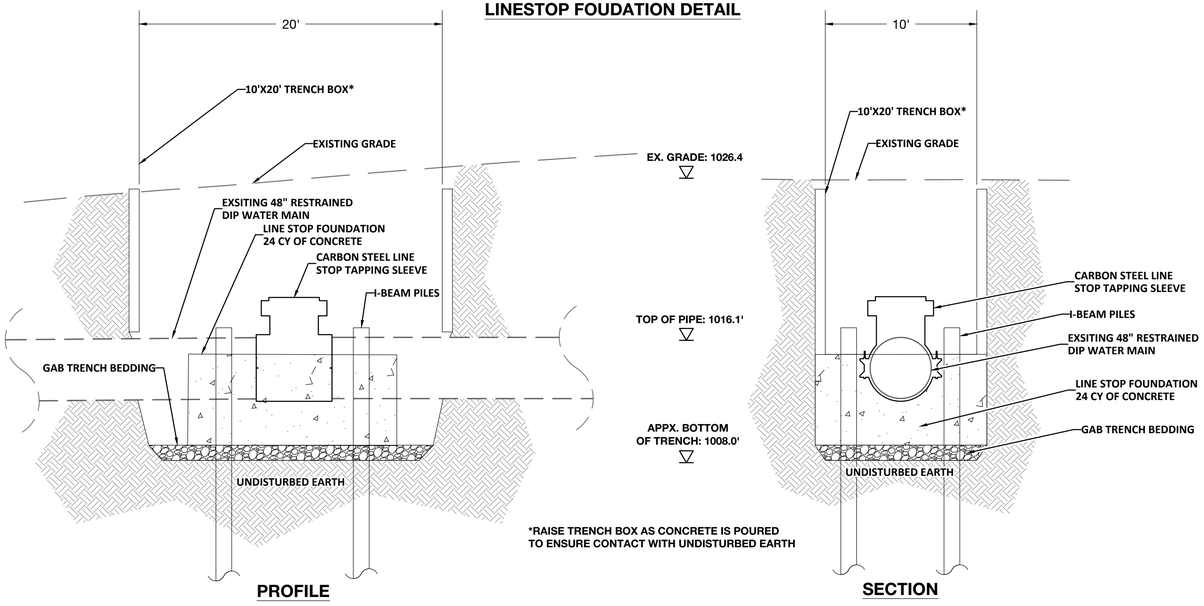
GRAPHIC SCALE

10 0 10 20

1" = 20'

HORIZONTAL

LINESTOP FOUDATION DETAIL



OLD ALABAMA ROAD WORK PLAN

THIS 48" TRANSMISSION MAIN IS CRITICAL TO THE OPERATION OF CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT'S DISTRIBUTION SYSTEM. ACCORDING TO OPERATIONS STAFF, THIS DISTRIBUTION MAIN SUPPLIES AROUND 30% OF THE CITY OF ATLANTA'S DEMAND. SERVICE IN THIS TRANSMISSION MAIN CANNOT BE INTERRUPTED AT ANY POINT DURING CONSTRUCTION. THIS WILL BE ACHIEVED BY THE USE OF 48" FOLDING HEAD, FLOW-THOUGH LINE STOPS WITH 36" BYPASS LINES. THE FOLLOWING WORK PLAN HAS BEEN DEVELOPED TO MEET THIS REQUIREMENT.

1. CONSTRUCT PROPOSED 48" WATER MAIN WITHIN 20' OF TIE-IN POINTS. EACH END OF THE CONSTRUCTED PIPE WILL HAVE A 48" X 36" TAPPING SLEEVE AND VALVE ASSEMBLY (TS&V) FOR BYPASS AND A 48" GATE VALVE AT THE END. ENSURE THAT THE 36" BYPASS VALVES ARE CLOSED.

2. INSTALL LINE STOP SLEEVE AND CONSTRUCT LINE STOP FOUNDATIONS CONCURRENTLY WITH THE COMPLETION OF PHASE I CONSTRUCTION.

...

PIPE LEGEND

COLOR	TYPE OF PIPE	MAX JOINT DEFLECTION
	FLEX RING DIP (RESTRAINED)	2°
	FASTITE DIP (PUSH-ON)	3°
	FASTITE EXTRA DEFLECTION BELL DIP (PUSH-ON)	4°

RUBY COLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE

12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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RESOURCE ATLANTA GA

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

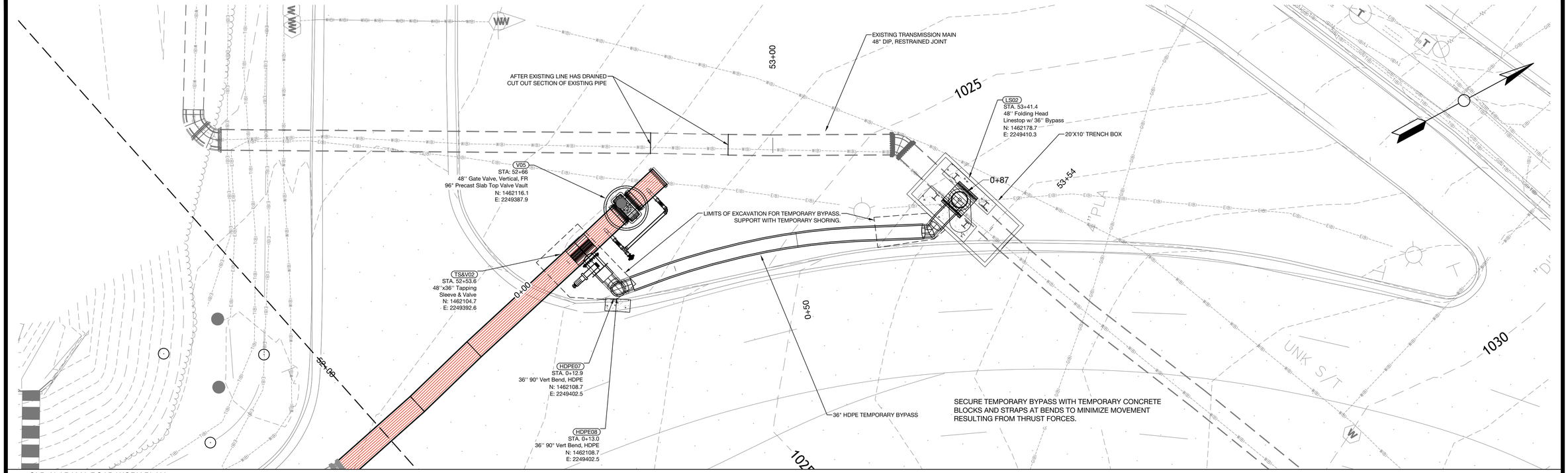
TIE-IN PHASING PLAN PHASE II.A

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
C 03.11A

PLOT DATE: 12/22/2022 12:20 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\PLAN AND PROFILE\C-WATR-PH2.DWG

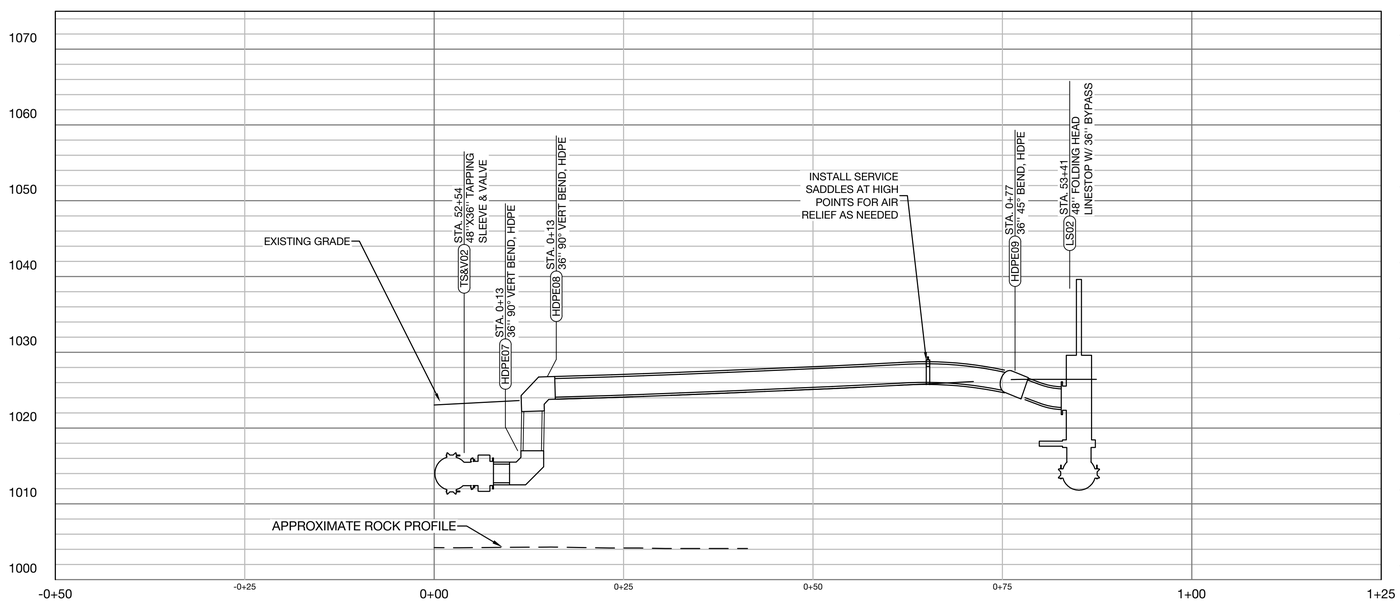


OLD ALABAMA ROAD WORK PLAN

...

3. INSTALL 48" FOLDING HEAD LINE STOP (LS01) SOUTH OF RIVERSIDE DRIVE NEAR SOUTHERN TIE-IN POINT BUT DO NOT ENGAGE FOLDING HEAD.
4. INSTALL 36" BYPASS FROM (TS&V01) ON PROPOSED 48" WATER MAIN TO BYPASS PORT ON FOLDING HEAD LINE STOP (LS01).
5. INSTALL 36" BYPASS FROM (TS&V02) ON PROPOSED 48" WATER MAIN TO BYPASS PORT ON FOLDING HEAD LINE STOP (LS02).
6. FILL AND EQUALIZE PRESSURE IN PROPOSED WATER MAIN USING EXISTING HYDRANT.
7. PRESSURE TEST NEW 48" MAIN IN ACCORDANCE WITH THE HYDROSTATIC TESTING REQUIREMENTS AS OUTLINED IN SPECIFICATION SECTION 33 13 00
8. CHLORINATE AND BACTERIA TEST NEW 48" MAIN IN ACCORDANCE WITH THE DISINFECTION PROCEDURES AS OUTLINED IN SPECIFICATION SECTION 33 10 00
9. OPEN VALVES (TS&V01) AND (TS&V02) TO ACTIVATE PROPOSED 48" MAIN VIA THE 36" BYPASSES.
10. ENGAGE 48" FOLDING HEAD LINE (LS02) STOP ON NORTH END.
11. ENGAGE 48" FOLDING HEAD LINE STOP (LS01) ON SOUTHERN END TO ISOLATE EXISTING 48" MAIN.
12. BEGIN DRAINING EXISTING 48" MAIN USING EXISTING HYDRANT.
13. WHILE EXISTING 48" MAIN IS DRAINING, CUT IN NORTHERN TIE-IN POINT: CONNECT TO EXISTING 48" MAIN USING 48" MECHANICAL JOINT SLEEVE (S02).
14. OPEN 6" EQUALIZATION VALVE AROUND (V05) TO PRESSURIZE NORTHERN TIE-IN POINT.
15. DISENGAGE NORTHERN FOLDING HEAD LINE STOP (LS02).
16. OPEN NEW NORTHERN 48" GATE VALVE (V05).
17. CLOSE NORTHERN 36" BYPASS VALVE (TS&V02).
18. ONCE EXISTING 48" MAIN IS COMPLETELY DRAINED, CUT IN SOUTHERN TIE-IN POINT: CONNECT TO EXISTING 48" MAIN USING 48" MECHANICAL JOINT SLEEVE (S02).
19. OPEN 6" EQUALIZATION VALVE AROUND (V01) TO PRESSURIZE SOUTHERN TIE-IN POINT.
20. DISENGAGE SOUTHERN FOLDING HEAD LINE STOP (LS01) ON SOUTHER END.
21. OPEN NEW SOUTHERN 48" GATE VALVE (V01).
22. CLOSE SOUTHERN 36" BYPASS VALVE (TS&V01).

...



GRAPHIC SCALE

10 0 10 20

1" = 20'

HORIZONTAL

PIPE LEGEND

COLOR	TYPE OF PIPE	MAX JOINT DEFLECTION
	FLEX RING DIP (RESTRAINED)	2°
	FASTITE DIP (PUSH-ON)	3°
	FASTITE EXTRA DEFLECTION BELL DIP (PUSH-ON)	4°

RUBY COLLINS / BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE

12/22/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

RESOURCE ATLANTA GA

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

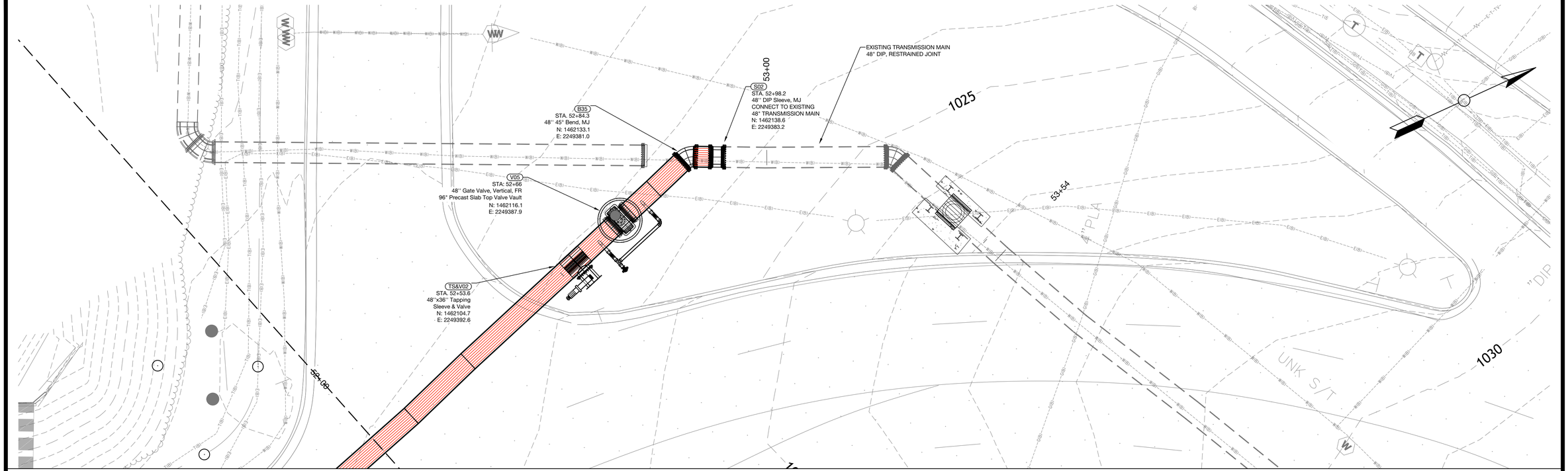
TIE-IN PHASING PLAN PHASE II.B

DATE: DECEMBER 23, 2022

ISSUED FOR: CONSTRUCTION

SHEET NUMBER: C 03.11B

PLOT DATE: 12/22/2022 12:23 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\PLAN AND PROFILE\C-WATR-PH2.DWG



GRAPHIC SCALE

10 0 10 20

1" = 20'

HORIZONTAL

PIPE LEGEND

COLOR	TYPE OF PIPE	MAX JOINT DEFLECTION
	FLEX RING DIP (RESTRAINED)	2°
	FASTITE DIP (PUSH-ON)	3°
	FASTITE EXTRA DEFLECTION BELL DIP (PUSH-ON)	4°

OLD ALABAMA ROAD WORK PLAN

...

23. REMOVE NORTHERN 48" LINE STOP (LS02) AND 36" TEMPORARY BYPASS.
24. REMOVE SOUTHERN 48" LINE STOP (LS01) AND 36" TEMPORARY BYPASS.
25. CAP 36" BYPASS VALVES (TS&V01) AND (TS&V02).
26. CAP AND GROUT FILL ABANDONED 48" WATER MAIN.
27. BACKFILL AND RESTORE EXCAVATION AREA.

RUBY COLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE 12/27/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
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0	12/23/2022	ISSUED FOR CONSTRUCTION

RESURGENS ATLANTA GA

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

TIE-IN PHASING PLAN PHASE II.C

DATE

DECEMBER 23, 2022

ISSUED FOR

CONSTRUCTION

SHEET NUMBER

C 03.11C

PLOT DATE: 12/22/2022 7:40 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\PLAN AND PROFILE\C-WATR-PH2.DWG

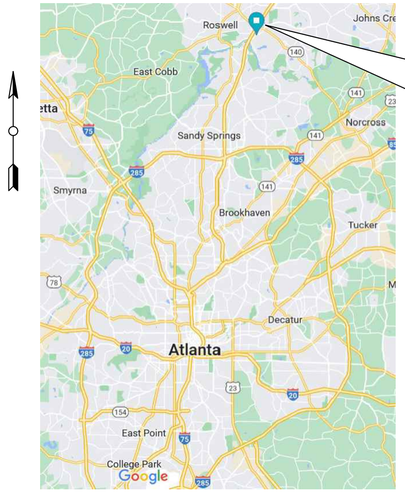
EROSION CONTROL ONLY

CITY OF ATLANTA

DEPARTMENT OF WATERSHED MANAGEMENT

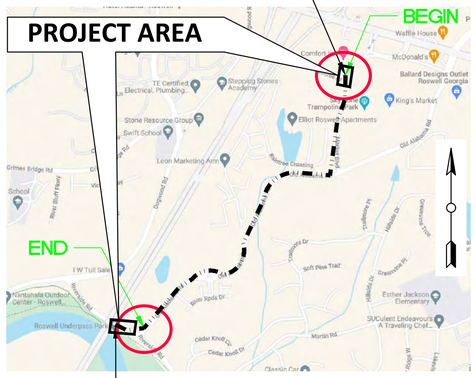
OFFICE OF ENGINEERING SERVICES

PHASE-II



VICINITY MAP

NTS



LOCATION MAP

NTS

GSWCC — Georgia Soil and Water Conservation Commission

Daniel T. Paulos

Level II Certified Design Professional

CERTIFICATION NUMBER 0000042346

ISSUED: 03/18/2022 EXPIRES: 03/18/2025

RESURGENS 1847 1865 ATLANTA, GA. ®

GEORGIA811 Utilities Protection Center, Inc.

Know what's below. Call before you dig.

CAUTION

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN TEAM ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ANTICIPATED BEGINNING OF CONSTRUCTION:

ANTICIPATED END OF INITIAL CONSTRUCTION:

SCHEDULE OF MAJOR ACTIVITIES

DESCRIPTION	MO. 1	MO. 2	MO. 3	MO. 4	MO. 5	MO. 6
	(WEEKS AFTER BEGINNING CONSTRUCTION)					
	2 4 6 8 10 12 14 16 18 20 22 24					
INSTALL & MAINTAIN SEDIMENT CONTROL STRUCTURES						
STAGE MATERIALS						
48" WATER MAIN INSTALLATION						
TESTING						
PAVING						
FINAL STABILIZATION / PERMANENT VEGETATION						
REMOVE SEDIMENT CONTROL STRUCTURES						

*SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY. MAINTAIN BMP'S THROUGHOUT LAND DISTURBANCE ACTIVITY.

ENGINEER CERTIFICATION STATEMENTS:

"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 SUPERVISION."

DANIEL T. PAULOS	08-05-2022
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION # 0000042346	DATE

GENERAL NOTES:

1. PROJECT PURPOSE

   THE SCOPE OF WORK FOR THIS PROJECT IS RELOCATION OF CITY OF ATLANTA'S (COA'S) 48-INCH DUCTILE IRON WATER MAIN ALONG OLD ALABAMA ROAD. (PHASE-I) THE RELOCATION INCLUDES A NORTHERN TIE-IN POINT AT THE INTERSECTION OF RAINTREE DRIVE AND MARKET STREET, AND A SOUTHERN TIE-IN AT THE INTERSECTION OF RIVERSIDE DRIVE AND OLD ALABAMA ROAD. (PHASE-II)

2. PRIMARY PERMITTEE / OWNER / DEVELOPER
   THE CITY OF ATLANTA
   DEPARTMENT OF WATERSHED MANAGEMENT
   72 MARIETTA STREET
   ATLANTA, GA 30303
   (770) 961-2130 OFFICE
   (770) 960-5229 FAX

3. SITE 24-HOUR CONTACT
   NAME: ROY CHAVEZ
   COMPANY: RUBY COLLINS
   TELEPHONE: (470)-776-9906
   EMAIL: RCHAVEZ@RUBY-COLLINS.COM

   BACKUP CONTACT: JESSE BROWN
   TELEPHONE: (678)-516-3030
   EMAIL: JBROWN@RUBY-COLLINS.COM

4. PROJECT ADDRESS / LOCATION
   FROM INTERSECTION OF MARKET BLVD WITH RAINTREE DR TO OLD ALABAMA RD WITH RIVERSIDE RD.

5. PROJECT FUNDING
   SOURCE NAME: CITY OF ATLANTA AND GDOT

6. SITE VISIT
   THE PROPOSED ROUTE AND IMMEDIATE VICINITY WAS VISITED BY THE PLAN DESIGNER ON JUNE 19, 2022 PRIOR TO COMPLETING THE EROSION CONTROL PLAN.

7. TOTAL PROJECT AREA: 0.07 ACRES
   TOTAL DISTURBED AREA: 0.02 ACRES
   ON-SITE WETLANDS: 0.00± ACRES

8. 100-YEAR FLOOD PLAIN
   THIS PROJECT DOES APPEAR TO CROSS IDENTIFIED 100-YEAR FLOOD PLAIN HAZARD AREAS.

9. CITY OF ROSWELL F.I.R.M. COMMUNITY PANELS:
   FULTON CO:
   PANEL NUMBER: 130088-0064G
   DATED SEPTEMBER 18, 2013
   BASED ON VISUAL RECONNAISSANCE ON JUNE 19, 2022, WETLANDS DO NOT APPEAR TO EXIST ALONG THE PROJECT ROUTE.

10. STATE WATERS
    BASED ON VISUAL RECONNAISSANCE ON JUNE 19, 2022, THE PROJECT ROUTE APPEARS TO CROSS STATE WATERS.

11. STATE PLANE COORDINATE SYSTEM
    THE CONSTRUCTION DRAWINGS WERE PREPARED USING THE FOLLOWING COORDINATE SYSTEMS.
    HORIZONTAL CONTROL:
    NORTH AMERICAN DATUM 83 / 94
    VERTICAL CONTROL:
    NATIONAL GEODETIC VERTICAL DATA88.
    GRID ZONE:GEORGIA WEST 1002.

12. THIS SITE IS WITHIN CITY OF ROSWELL AND REQUIRES APPROVAL FROM THE CITY.

13. ENGINEER
    BENCHMARK MANAGEMENT LLC
    101 MARIETTA STREET SUITE 2000
    ATLANTA, GA 30303
    DPAULOS@BMMLLC.COM
    404-581-9656 OFFICE

PROJECT NARRATIVE:

THE GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) SR 400 EXPRESS LANES (EXPRESS LANES) SPALDING DR. TO MCFARLAND PARKWAY PROJECT REQUIRES THE RELOCATION OF CITY OF ATLANTA'S (COA'S) 48-INCH DUCTILE IRON (DI) WATER MAIN AT THREE LOCATIONS BETWEEN NORTHRIDGE ROAD AND HOLCOMB BRIDGE ROAD. THE WATER MAIN RELOCATIONS ARE NECESSARY IN ORDER FOR THE WATER MAIN TO BE LOCATED OUTSIDE THE PROPOSED TRAVEL LANES OR AWAY FROM PROPOSED ROADWAY STRUCTURES SUCH AS RETAINING WALL FOUNDATIONS. THE RELOCATION OF TWO SECTIONS (MIDDLE SECTION WATER MAIN RELOCATION ±700 LF AND THE GRIMES BRIDGE SECTION WATER MAIN RELOCATION ±1,300 LF) CAN BE ACCOMPLISHED BY REROUTING THE WATER MAIN ALONG MARKET STREET AND OLD ALABAMA ROAD.

THIS ALTERNATE ROUTE IS OUTSIDE OF THE SR 400 RIGHT-OF-WAY AND ALONG ROADS UNDER THE JURISDICTION OF THE CITY OF ROSWELL.

THIS IS A LINEAR INFRASTRUCTURE PROJECT AND IS THEREBY SHOWN IN INITIAL AND FINAL PHASE ONLY.

THE ALTERNATE ROUTE IS APPROXIMATELY 5,300 LINEAR FEET (LF) AND IS DEPICTED IN FIGURE 1. THE PIPE PLACEMENT WILL BE WITHIN THE ROADWAY OCCUPYING ONE TRAVEL LANE. THE EXISTING WATER MAIN WILL BE INTERCEPTED AT THE INTERSECTION OF RAINTREE DRIVE AND MARKET STREET FOR THE NORTHERN TIE-IN, AND AT THE INTERSECTION OF RIVERSIDE DRIVE AND OLD ALABAMA ROAD FOR THE SOUTHERN TIE-IN. THIS ROUTE REPLACES THE MIDDLE SECTION AND GRIMES BRIDGE ROAD SECTION PIPE RELOCATIONS.

THE EXISTING CN FOR THE DRAINAGE AREA IS APPROXIMATELY CN=95 AND WILL REMAIN UN-IMPACTED BY THE CONSTRUCTION EFFORT.

PRELIMINARY BMPS WILL CONSIST OF PERIMETER CONTROLS IN THE FORM OF SILT FENCE AND STORMWATER INLET PROTECTION. FINAL STABILIZATION SHALL BE PROVIDED USING PERMANENT SEEDING AND SODDING AND OUTLET STORM PROTECTION AT THE HEADWALL.

THE ENTIRE PROJECT IS LOCATED WITHIN THE CHATTAHOOCHEE RIVER DRAINAGE BASIN. THIS SECTION OF CHATTAHOOCHEE RIVER IS NOT ON THE LIST OF IMPAIRED STREAMS.

SECTION OF THE PROJECT IS LOCATED WITHIN THE 2000 FEET ARC RIVER CORRIDOR STARTING AT COORDINATES 34.019421, -84.322435 AND ENDING AT 34.0102218, -84.332495.

THERE ARE NO POTENTIAL CRITICAL AREAS IDENTIFIED FOR THIS PROJECT AREA. THERE ARE STATE WATERS WITHIN 200 FEET OF THE PROJECT AREA.

THERE ARE NO WETLANDS ON THIS SITE.

RUBY COLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE 8/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

EROSION AND SEDIMENT CONTROL COVER SHEET

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 00.01

PLOT DATE: 2/1/2023 3:23 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWGS\SHTS\PHASE II\EROSION CONTROL\E&SC-II COVER SHEET - PHASE 2.DWG

EROSION AND SEDIMENT CONTROL DRAWING INDEX (PHASE-II)

SHEET NUMBER	SHEET NAME
ES 00.01	EROSION AND SEDIMENT CONTROL COVER SHEET (UPDATED SHEET)
ES 00.02	EROSION AND SEDIMENT CONTROL DRAWING INDEX
ES 00.03	EROSION AND SEDIMENT CONTROL GENERAL NOTES
ES 00.03A	EROSION AND SEDIMENT CONTROL GENERAL NOTES (CONTINUED)
ES 00.04	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND CHECK LIST
ES 00.05	EROSION AND SEDIMENT CONTROL NDPES MAPS
ES 00.06	EROSION AND SEDIMENT CONTROL NDPES MAPS (CONT.)
ES 00.07	EROSION AND SEDIMENT CONTROL NDPES MAPS - ARC METROPOLITAN RIVER PROTECTION ACT MAP
ES 01.01	EROSION AND SEDIMENT CONTROL PLAN (INITIAL STAGE) - PLAN 1 OF 2 (UPDATED SHEET)
ES 01.02	EROSION AND SEDIMENT CONTROL PLAN (INITIAL STAGE) - PLAN 2 OF 2 (UPDATED SHEET)
ES 02.01	EROSION AND SEDIMENT CONTROL PLAN (INTERMEDIATE AND FINAL STAGE) - PLAN 1 OF 2 (UPDATED SHEET)
ES 02.02	EROSION AND SEDIMENT CONTROL PLAN (INTERMEDIATE AND FINAL STAGE) - PLAN 2 OF 2 (UPDATED SHEET)
ES 05.01	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.02	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.03	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.04	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.05	EROSION AND SEDIMENT CONTROL DETAILS
ES 05.06	EROSION AND SEDIMENT CONTROL DETAILS (UPDATED SHEET)

PLOT DATE: 12/22/2022 3:09 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II COVER SHEET - PHASE 2.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	JN
DRAWN BY	JN
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025739 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS

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A	08/05/2022	75% DESIGN SUBMITTAL
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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL DRAWING INDEX

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 00.02

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE.

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 AND SEDIMENTATION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

3. ANY DISTURBED AREA WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITHIN 14 DAYS OF SUCH CESSATION AS SOON AS PRACTICABLE WITH A SUITABLE MATERIAL. HOWEVER, IN SPECIAL CASES, THE PROJECT ENGINEER MAY REQUIRE THE CONTRACTOR TO PERFORM STABILIZATION MORE OFTEN THAN 14 DAYS.

4. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

5. THE PRIMARY SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT. A MAJOR MODIFICATION OR DELETION OF STRUCTURAL BMP'S WITH A HYDRAULIC COMPONENT REQUIRES A FORMAL REVISION OF THE ESPCP AND THE SIGNATURE OF A GSWCC LEVEL-II-CERTIFIED DESIGN PROFESSIONAL.

6. WASTE DISPOSAL

   WHERE ATTAINABLE, LOCATE WASTE COLLECTION AREAS, DUMPSTERS, TRASH CANS AND PORTABLE TOILETS AT LEAST 50 FEET AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. SECONDARY CONTAINMENT SHALL BE PROVIDED AROUND LIQUID WASTE COLLECTION AREAS TO MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE STORAGE AND DISPOSAL REGULATIONS AND OBTAIN ALL NECESSARY PERMITS. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, UNLESS AUTHORIZED BY A SECTION 404 PERMIT.

7. THE PRESENCE OF ON-SITE WETLANDS HAS BEEN INVESTIGATED AND IT WAS DETERMINED THAT THERE ARE NONE PRESENT. THERE ARE NO STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE

8. THE RECEIVING WATER OF THIS PROJECT IS CHATTAHOOCHEE RIVER.

9. DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

   ALL OUTFALLS ARE EITHER LOCATED FURTHER THAN 1 LINEAR MILE UPSTREAM OR OUTSIDE OF THE WATERSHED OF AN IMPAIRED STREAM SEGMENT THAT HAS BEEN LISTED FOR CRITERIA VIOLATED, “BIO F” (IMPAIRED FISH COMMUNITY) AND/OR “BIO M” (IMPAIRED MACRO INVERTEBRATE COMMUNITY), WITHIN CATEGORY 4A, 4B OR 5, AND THE POTENTIAL CAUSE IS EITHER “NP” (NONPOINT SOURCE) OR “UR” (URBAN RUNOFF).

10. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

11. THE WASHING OF READY-MIX CONCRETE DRUMS AND DUMP TRUCK BODIES USED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE IS PROHIBITED ON THIS SITE. CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:

    1) CONTAIN ALL WASH WATER ON SOIL, IN A BOWL-SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA;
    2) USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES;
    3) REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND
    4) REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.
    5) ON SITES WHERE PERMISSION OR ACCESS TO EXCAVATE A WASH-DOWN PIT IS UNAVAILABLE, THE CONTRACTOR MAY HAVE TO WASH-DOWN INTO A SEALABLE 55-GALLON DRUM OR OTHER SUITABLE CONTAINER AND THEN TRANSPORT THE CONTAINER TO A PROPER DISPOSAL SITE. FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN".

12. SPILL CLEANUP AND CONTROL PRACTICES:

    LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTER CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

13. ALL POLLUTANTS 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 BEST MANAGEMENT PRACTICES. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

14. PRODUCT SPECIFIC PRACTICES:
    1) PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
    2) PAINTS/FINISHES/SOLVENTS -ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
    3) CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
    4) FERTILIZER/HERBICIDES -THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
    5) BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

16. NO HYDROLOGY STUDY ACCOMPANIES THESE ES&PC DRAWINGS AS PART OF THE PLANS.

17. WHERE APPLICABLE, NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 100-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

18. 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.

19. INSPECTIONS:
    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 SEVEN (7) 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 NON-WORKING 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 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).

    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. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.B.(5). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.

    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 THE 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 AN INCIDENT, 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 PAT V.G.2. OF THIS PERMIT.

20. REPORTING:

    THE APPLICABLE PERMITTEES 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 STORMWATER 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 N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI.

    1) 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.

    2) 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 APPLICABLE PERMITTEES 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 N.O.T. 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.

21. 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 N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI:
       A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD
       B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT.
       C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
       D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT.
       E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT.
       F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERA TED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
       G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

    2) COPIES OF ALL NOTICES OF INTENT NOTICES OF TERMINATION, INSPECTION

PLOT DATE: 12/22/2022 1:40 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II GENERAL NOTES.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DP
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME: **EROSION AND SEDIMENT CONTROL GENERAL NOTES**

DATE: **DECEMBER 23, 2022**

ISSUED FOR: **CONSTRUCTION**

SHEET NUMBER: **ES 00.03**

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES CONTINUED

REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS 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 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 PERMITEE.

22. 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 ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

1) SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

A. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT;

B. THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND

C. THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

D. THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.

E. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

F. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

2) 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.

A. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

B. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

C. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

D. 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. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER SAMPLES ARE NOT REQUIRED TO BE COOLED.

E. 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.

3) SAMPLING POINTS

A. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALLS, OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). 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 STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES.

- 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.
- 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.
- IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL
- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILLZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
- 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 STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

23. SAMPLING FREQUENCY:

1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:

A. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT IF THE STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR

B. THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

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 EVENTS:

A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00AM TO 5:00PM AND SATURDAY 8:00AM TO 5:00PM EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION·

B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM 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; AND

D. 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 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 MONITORING AT ANY TIME OF THE DAY OR WEEK.

24. THE ALLOWABLE INCREASE IN TURBIDITY BETWEEN THE DOWNSTREAM AND UPSTREAM SAMPLING POINTS IN THE RECEIVING WATERS, WHICH ARE CLASSIFIED AS WARM WATER, FOR THIS PROJECT IS 25 NTU.

25. 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.

26. 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.

27. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

28. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL".

29. ACCORDING TO FLOOD INSURANCE RATE MAP 13063C0043E DATED SEPTEMBER 5, 2007 THE PROPERTY IS LOCATED IN AN AREA DEFINED PRIMARY "A3 OTHER AREAS - ZONE X" WITH THE THIN CHANNEL SOUTH OF THE SITE DEFINED AS "OTHER FLOOD AREAS - ZONE X" OTHER AREAS -ZONE X ARE DETERMINED TO OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN. OTHER FLOOD AREAS - ZONE X ARE AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

30. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

31. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY FIELD INSPECTOR.

"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 SUPERVISION."

"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 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. GAR100001."

"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, INTERMITTENT STREAMS AND OTHER WATER BODIES, OR B) WHERE ANY SUCH IDENTIFIED PERENNIAL AND 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 1000001, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER ."

BY: DANIEL T. PAULOS 08-05-2022

DANIEL T. PAULOS, P.E. (GEORGIA REGISTRATION NO. P.E.040475)

LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000042346

RUBYCOLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHENDER ABEBE

Eshender Abebe 12/12/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

EROSION AND SEDIMENT CONTROL GENERAL NOTES (CONTINUED)

DATE: DECEMBER 23, 2022

ISSUED FOR: CONSTRUCTION

SHEET NUMBER: ES 00.03A

PLOT DATE: 12/22/2022 1:41 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II GENERAL NOTES.DWG

1. CITY OF ROSWELL EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

1. CONTACT THE CITY OF ROSWELL LAND DEVELOPEMENT INSPECTOR AT 770-594-6100 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED.

2. IF APPLICABLE, THE CONTRACTOR/OPERATOR / OWNER UPON FILING THE NOI AND NOT FOR THE STATE NPDES CONSTRUCTION GENERAL PERMIT SHALL SUBMIT COPIES OF THE NOI AND NOT TO THE CITY ENGINEER ALONG WITH A COPY OF THE CERTIFIED MAIL RECEIPT.

3. NOTICE IS HEREBY GIVEN THAT ALL EROSION AND SEDIMENT DEVICES AND PRACTICES MUST BE INSTALLED AND MAINTAINED AT ALL TIMES. NO FURTHER NOTICE WILL BE GIVEN. ANY SITE UPON WHICH THE LAND DEVELOPMENT INSPECTOR FINDS ANY DEFICIENCY WILL BE SUBJECT TO AN IMMEDIATE ENFORCEMENT ACTION WITHOUT WARNING. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UP GRADIENT GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHOULD BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. NO CLEARING BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE APPROVED PLANS SHALL BE ALLOWED.

5. NO LAND DISTURBING ACTIVITY OR STORAGE OF MATERIALS WITHIN ANY TREE SAVE AREA SHALL BE ALLOWED.

6. THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.

7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA AND APPLICABLE UPDATES THERETO ON THE GASWCC WEBSITE.

8. A CONSTRUCTION SITE COPY OF THE EROSION SEDIMENT AND/OR POLLUTION CONTROL PLAN MUST BE KEPT UP TO DATE. REVISIONS TO THE PLAN SHALL BE APPROVED BY THE CITY ENGINEER OR ASSIGNED PLAN REVIEWER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES, NOT THE CITY OF ROSWELL.

9. EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY THE LAND DEVELOPMENT INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN AND WHICH ALSO SUBSEQUENTLY FAIL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

10. THE CONSTRUCTION EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY OR PRIVATE ROADS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC/PRIVATE ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.

11. TYPE C SILT FENCE FABRIC SHALL BE COMPRISED OF GA. DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST (QPL) 36 FOR SILT FENCE FABRIC. TYPE "A" SILT FENCE FABRIC AND CONSTRUCTION MAY BE ALLOWED WITH PRIOR WRITTEN APPROVAL FROM THE LAND DEVELOPMENT INSPECTOR.

12. SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFERS, FLOOD PLAINS OR ACROSS AREAS OF CONCENTRATED FLOW. CHECK DAMS OR ROCK FILTER DAMS, AS APPROPRIATE ARE TO BE INSTALLED ACROSS AREAS OF CONCENTRATED FLOW.

13. TOPSOIL SHALL BE STOCKPILED AND USED TO DRESS FINAL GRADES.

14. BELOW ALL FILL SLOPES GREATER THAN 25% AND HIGHER THAN 10 FEET, A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF THE SLOPE TO THE FENCE SHALL BE PROVIDED.

15. ALL OPEN DRAINAGE SWALES MUST BE GRASSED, AND RIPRAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 10 SQUARE YARDS OF 40 LB. STONE SHALL BE PLACED AT ALL HEADWALLS OR FLUMES.

16. PLAN REVISIONS WHICH INVOLVE A HYDRAULIC COMPONENT MUST BE REVISED BY THE DESIGN ENGINEER AND APPROVED BY THE CITY ENGINEER.

17. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSIVE ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE; ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

18. UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGITATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY ARBORIST APPROVAL

19. TEMPORARY VEGETATION AND/OR HEAVY MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT. IN NO CASE SHALL A CRITICAL AREA BE LEFT BARE FOR MORE THAN SEVEN (7) DAYS.

20. ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

21. ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.

22. THE LAND DEVELOPMENT INSPECTOR WILL DETERMINE ADEQUATE COVER OF NEW PLANTINGS IN ACCORDANCE WITH THE APPLICABLE EROSION CONTROL MANUAL.

23. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY MEANS OF BRIDGES OR CULVERTS EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED, IN ANY CASE, THAT SUCH CROSSING IS KEPT TO A MINIMUM.

24. CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.

25. ALL SLOPES STEEPER THAN 3:1 SHALL RECEIVE SURFACE ROUGHENING TREATMENT OR BE STABILIZED WITH GDOT APPROVED EROSION CONTROL BLANKETS OR SOIL REINFORCEMENT MATTING. MOWED SLOPES SHALL NOT BE STEEPER THAN 3:1. ALL SLOPES MUST BE PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.

26. WETLAND CERTIFICATION:

THE DESIGN PROFESSIONAL , WHOSE NAME APPEARS HEREON, CERTIFIES THE FOLLOWING:

1)THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD:_____

Project Name: OLD ALABAMA RD WATER RELOCATION PRO Address: OLD ALABAMA ROAD

City/County: CITY OF ROSWELL Date on Plans: AUGUST 2022

Name & email of person filling out checklist: DANIEL PAULOS DPAULOS@BMMLLC.COM

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
ES 00.04	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ES 00.04	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
ES 00.01	Y	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
ES 00.01	Y	4 Provide the name, address, email address, and phone number of primary permittee.
ES 00.01	Y	5 Note total and disturbed acreages of the project or phase under construction.
ES 00.01	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
ES 00.01	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ES 00.01	Y	8 Descriptions of the nature of construction activity and existing site conditions.
ES 00.01	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ES 00.01	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
ES 00.04	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.
ES 00.04	Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
ES 00.03	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3) page 37** of the permit as applicable. *
ES 00.03	Y	14 Clearly note the statement that "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 00.03	Y	15 Clearly note the statement that "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."
-	N	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ES 00.03	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
ES 00.03	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
ES 00.03	Y	19 Clearly note statement that "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."
ES 00.03	Y	20 Clearly note statement that "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."
ES 00.04	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
-	N	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
-	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
ES 05.01	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
ES 00.03	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
ES 00.03	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
	N	27 Description of practices to provide cover for building materials and building products on site. *
ES 02.03	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ES 00.01	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
ES 00.03	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
ES 00.03	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
ES 00.03	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
ES 00.03	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
ES 00.03A	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
	N	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
ALL E&SC PLANS	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ALL E&SC PLANS	Y	37 Graphic scale and North arrow.
ALL E&SC PLANS	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" = 400' Centerline Profile

-	N	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
-	N	40 Use of alternative BMP for application to the Impaired Stream Segment BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
-	N	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
-	N	42 Delineaton of on-site wetlands and all State waters located on and within 200 feet of the project site.
ES 00.01	Y	43 Delineaton and acreage of contributing drainage basins on the project site.
ES 00.06	Y	44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
ES 00.01	Y	45 An estimate of the runoff coefficient or peak discharge fow of the site prior to and after construction activities are completed.
-	N	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
ES 00.05	Y	47 Soil series for the project site and their delineation.
ALL E&SC PLANS	Y	48 The limits of disturbance for each phase of construction.
	N	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
ALL E&SC PLANS	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
ES 05.01	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ES 05.05	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2022

GSWCC — Georgia Soil and Water Conservation Commission

Daniel T. Paulos
Level II Certified Design Professional
Certification Number 0000042346
Issued: 03/18/2022 Expires: 03/18/2025

"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 SUPERVISION."

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BY: DANIEL T. PAULOS DATE: 08-05-2022

DANIEL T. PAULOS, P.E. (GEORGIA REGISTRATION NO. P.E.040475)

LEVEL II CERTIFIED DESIGN PROFESSIONAL - CERTIFICATION NUMBER 0000042346

PLOT DATE: 12/22/2022 1:41 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\ES&SC-II GENERAL NOTES.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE 12/7/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

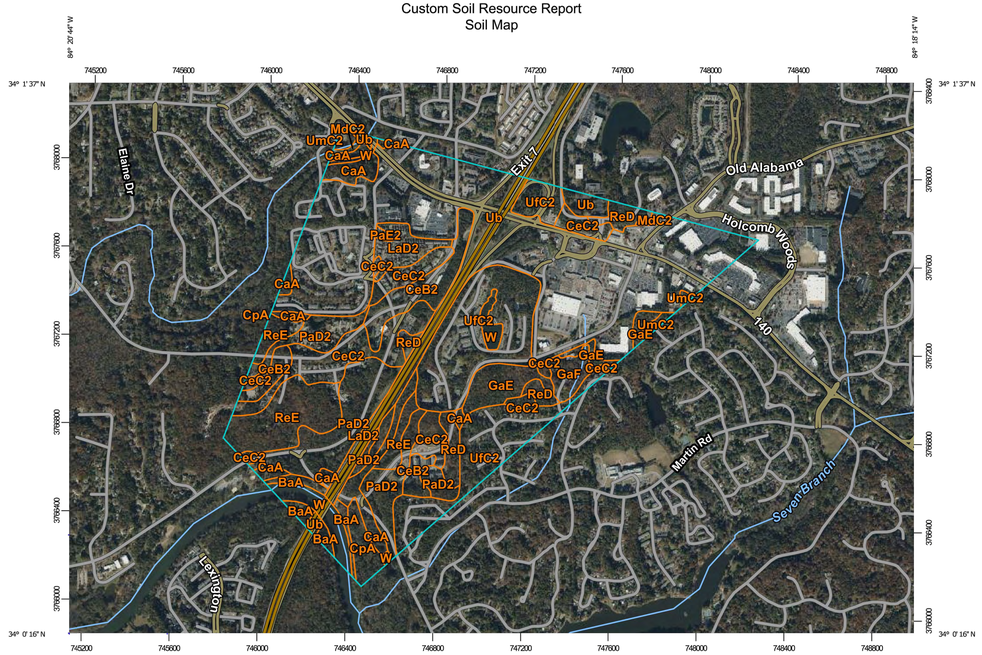
SHEET NAME
EROSION AND SEDIMENT CONTROL GENERAL NOTES AND CHECK LIST

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 00.04

Custom Soil Resource Report
Soil Map



Map Scale: 1:17,600 if printed on A landscape (11" x 8.5") sheet.

Meters: 0 250 500 1000 1500

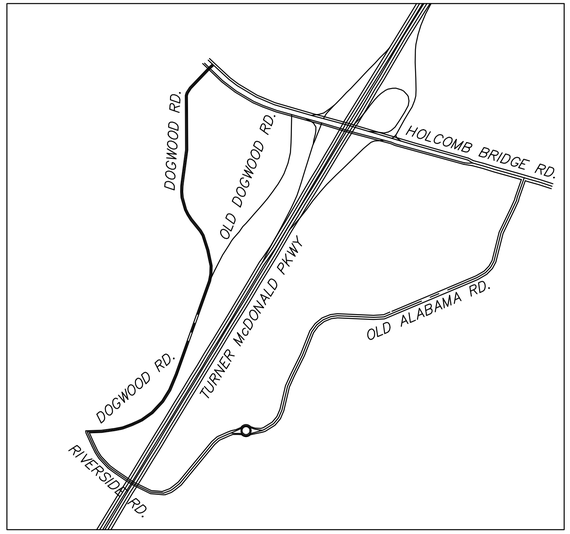
Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP UNIT LEGEND	
MAP UNIT SYMBOL	MAP UNIT NAME
CaA	Cartecay-Toccoa complex, 0 to 2 percent slopes, occasionally flooded
CeC2	Cecil sandy loam, 6 to 10 percent slopes, moderately eroded
GaE	Grover-Mountain Park complex, 10 to 20 percent slopes, stony
PaD2	Pacolet sandy loam, 10 to 15 percent slopes, moderately eroded
ReD	Rion sandy loam, 10 to 15 percent slopes
UfC2	Urban land-Cecil complex, 2 to 10 percent slopes, moderately eroded

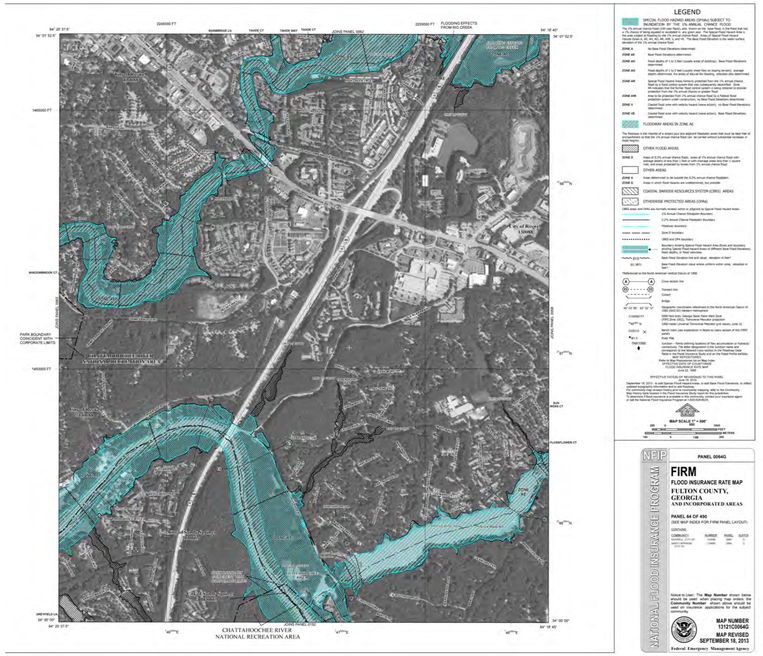
USGS QUAD MAP

ROSWELL, GA QUADRANGLE 2020



SITE LOCATION SKETCH

NTS



GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE 12/21/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

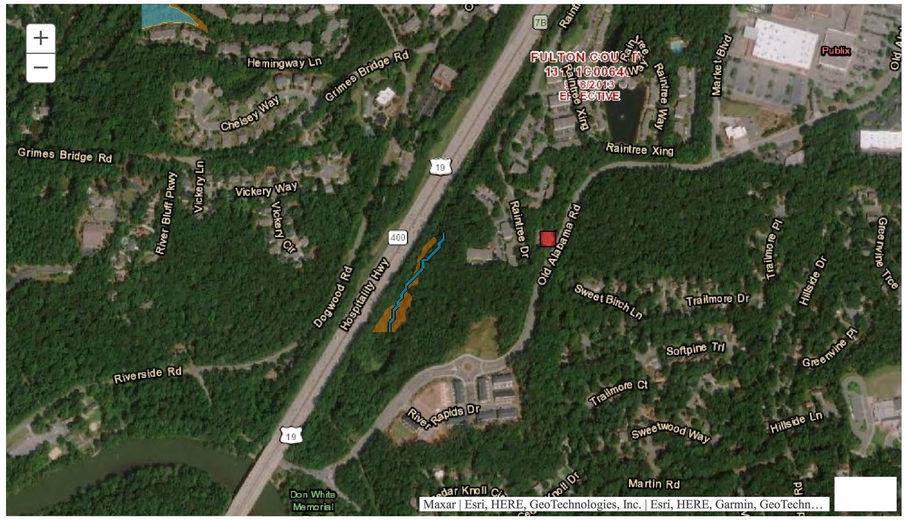
EROSION AND SEDIMENTATION CONTROL NDPES MAPS

DATE: DECEMBER 23, 2022

ISSUED FOR: CONSTRUCTION

SHEET NUMBER: ES 00.05

PLOT DATE: 12/22/2022 1:38 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II NDPES MAPS.DWG



Legend with Flood Zone Designations

- Flood Control Structures
- Base Flood Elevations
- Cross Sections
- Coastal Transects
- FIRM Panel Index
- 1% Flood - Floodway (High Risk)
- 1% Flood - Zone AE (High Risk)
- 1% Flood - Zone A, AH, or AO (HighRisk)
- 0.2% Flood - X-Shaded (Moderate Risk)
- Area of Undetermined Flood Hazard
- 1% Flood - Zone VE (HighRisk)
- Area Not Included
- Letters of Map Revision
- Coastal Barrier Resource Area
- Limit of Moderate Wave Action
- Floodway Decrease
- Floodway Increase
- 100-Year Flood Zone Decrease
- 100-Year Flood Zone Increase
- Zone Change

GEORGIA FLOOD MAP PROGRAM

Low Risk

Current Flood Zone:	X	
*Probability of Flooding: (30-Year Period)	Not Available	Not Available
Base Flood Elevation:	Not Available	
Lowest Adj Grade:	Not Available	Not Available
Preliminary Flood Zone:	Not Available	
Flood Zone Change Type:	Not Available	Not Available

Location Information

Panel:	13121C0064G
Watershed:	Upper Chattahoochee
County:	FULTON
Community ID:	13121C
Map Status:	EFFECTIVE

* Flood Depths shown on this report are derived from FEMA RiskMAP products and are rounded to the nearest tenth of a foot. These depths are calculated from HEC-RAS modeling and represent the best available data. Only areas within a RiskMAP studied watershed will have this data available. Please check back if your area is not currently available. For more information, please visit the FEMA Map Service Center at https://msc.fema.gov/portal/resources/faq

Nature Doesn't Read Flood Maps

Many people don't understand just how risky the floodplain can be. There is a greater than 26% chance that a non-elevated home in the SFHA will be flooded during a 30-year mortgage period.

The chance that a major fire will occur during the same period is less than 10%!

FOR MORE INFORMATION VISIT, PLEASE VISIT: FloodSmart.gov The official site of the NFIP

Disclaimer: This data is not to be used to determine any base flood elevations or flood zone designations for NFIP (National Flood Insurance Program) purposes. For NFIP flood insurance and regulation purposes, please refer to the published effective FIRM (Flood Rate Insurance Map) for your area of concern. Values displayed for Current Flood Zone, Preliminary Flood Zone, Flood Zone Change Type, and Probability of Flooding over a 30-year period based on center of dot location, not extent of structure(s).

THIS SITE IS LOCATED WITHIN ZONE X AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13121C0064G FOR FULTON COUNTY, GEORGIA AND UNINCORPORATED AREAS. (USE CURRENT MAP)

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BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE 12/27/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

EROSION AND SEDIMENTATION CONTROL NDPES MAPS (CONT.)

DATE: DECEMBER 23, 2022

ISSUED FOR: CONSTRUCTION

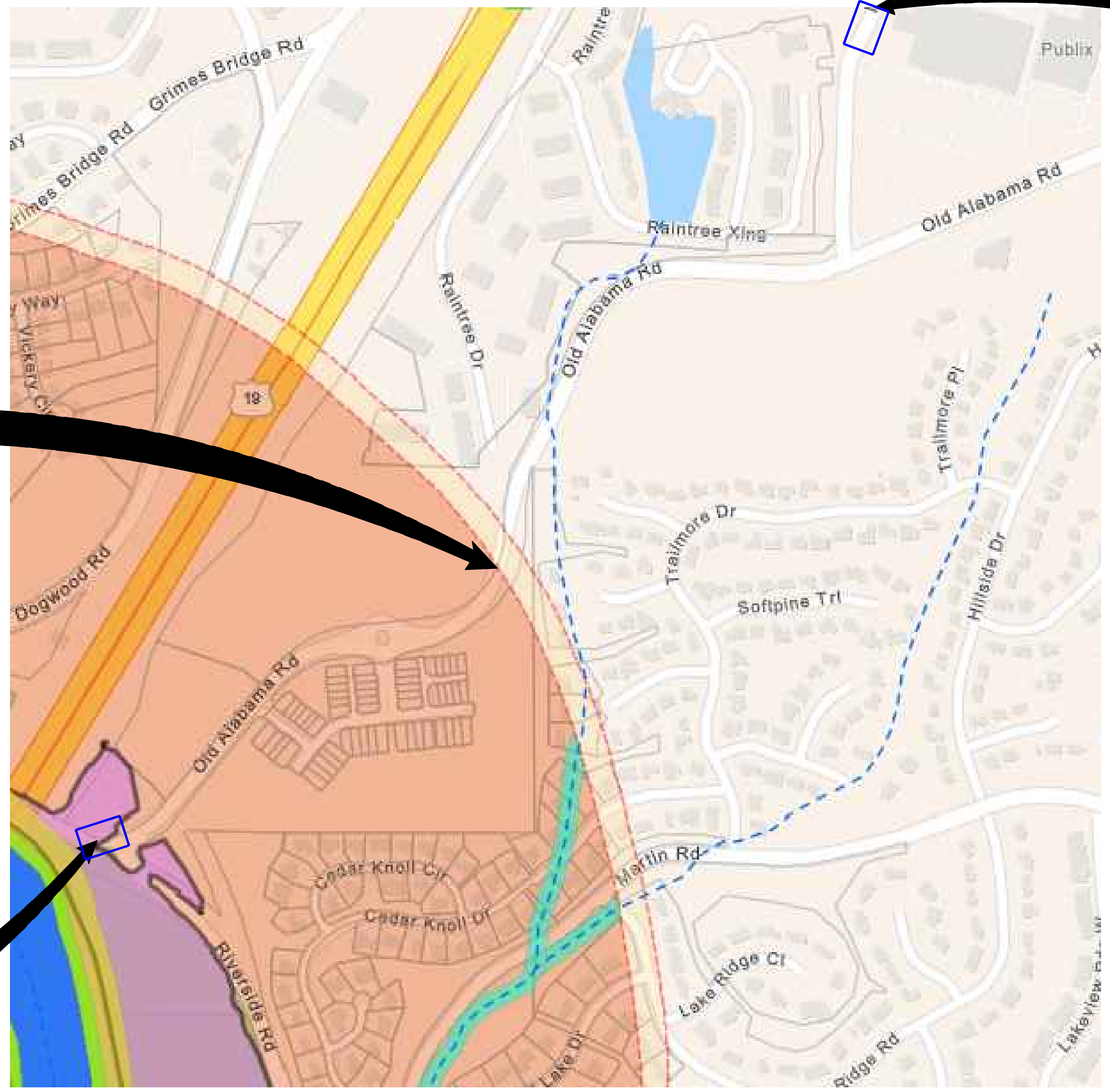
SHEET NUMBER: ES 00.06

PLOT DATE: 12/22/2022 1:38 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II NDPES MAPS.DWG

END OF PROJECT
STA 53+00.00
PHASE II

END OF CHATTAHOOCHEE RIVER 2000' CORRIDOR
STA 21+25.00 (APPROXIMATELY)
PHASE I

BEGINING OF PROJECT STA 0+00.00
PHASE II



Legend

- Tributary Streams
- Corridor Transition Area
- Chattahoochee River
- 50-foot undisturbed vegetative buffer
- 150-foot impervious surface setback
- 35-foot undisturbed vegetative buffer
- 100 year Floodplain
- 500 Year Floodplain
- Within 200 feet of 100 year floodplain
- 2000ft Protected Corridor
- Proposed 48" DIP Transition Watermain

METROPOLITAN RIVER PROTECTION ACT (MRPA) MAP

CHATTAHOOCHEE RIVER WITH PROTECTED CORRIDOR
SCALE: NTS

GEORGIA811 Utilities Protection Center, Inc.
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RUBYCOLLINS
BENCHMARK MANAGEMENT

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DESIGN BY	DP
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CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHENDER ABEBE
8/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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CITY OF ATLANTA DEPARTMENT OF watershed management

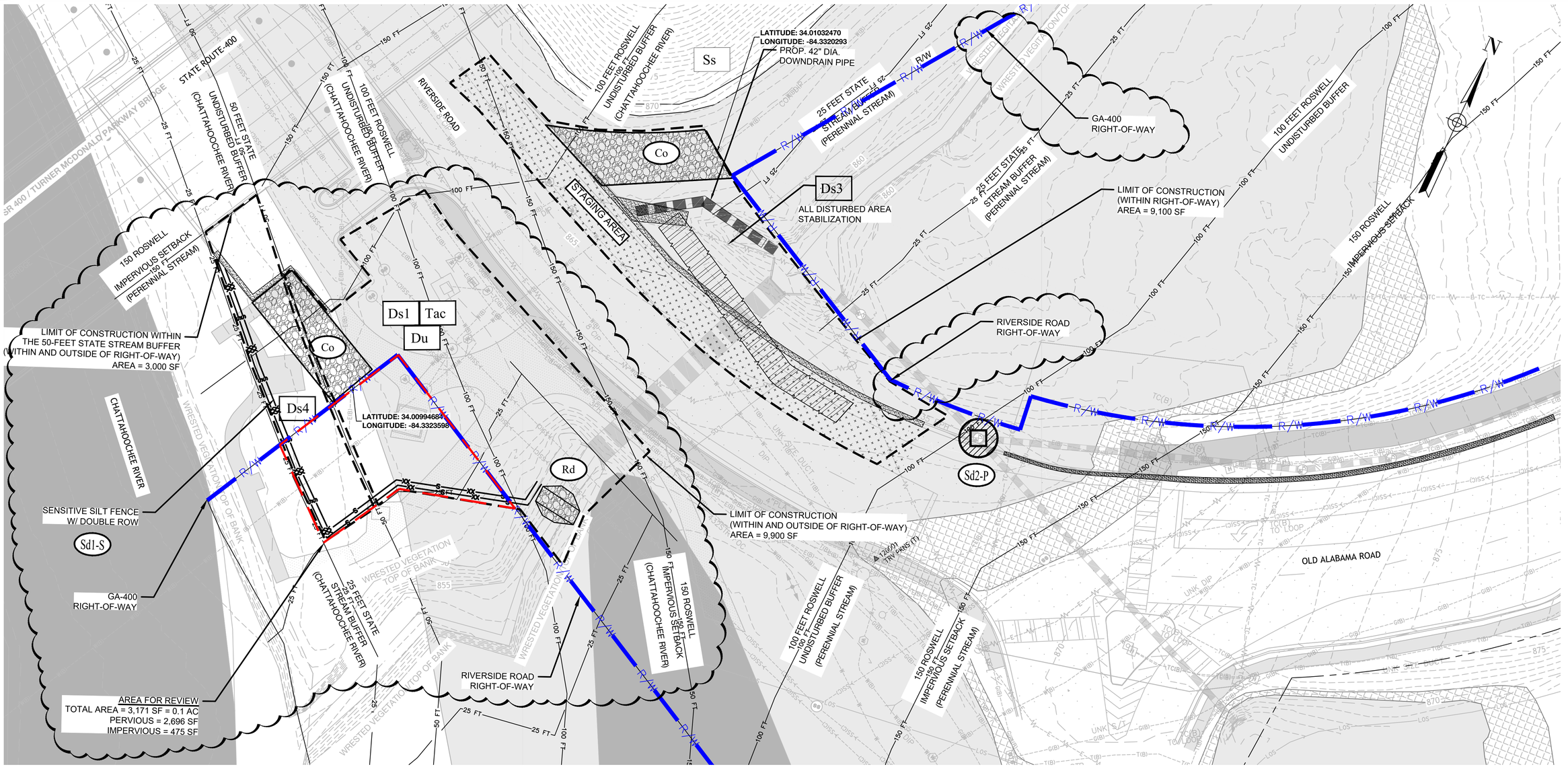
SHEET NAME
EROSION AND SEDIMENTATION CONTROL NDPES MAPS - ARC METROPOLITAN RIVER PROTECTION ACT MAP

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 00.07

PLOT DATE: 12/22/2022 1:37 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWGS\HTS\PHASE II\EROSION CONTROL\E&SC-II NDPES MAPS.DWG



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GRAPHIC SCALE
20 0 20 40
1" = 20'
HORIZONTAL

GSWCC Georgia Soil and Water Conservation Commission

Daniel T. Paulos
Level II Certified Design Professional
CERTIFICATION NUMBER 0000042346
ISSUED: 03/18/2022 EXPIRES: 03/18/2025

NOTES (CONTINUATION)

- WATER MAIN EXEMPT FROM 50 FEET STREAM BUFFER ZONE STANDARDS.
- NO PERMANENT ABOVE GROUND STRUCTURE WITHIN 150-FT IMPERVIOUS SETBACK.

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.
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- EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY GENERAL CONTRACTOR. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
- ALL SITE SOILS EXPOSED DURING DEMOLITION AND CONSTRUCTION INCLUDING SOIL STOCKPILED/STORED ON SITE, MUST BE PROTECTED FROM WIND AND RAIN EROSION THROUGH THE USE OF APPROPRIATE TEMPORARY MEASURES.
- CONTRACTOR TO EMPLOY SUFFICIENT MEASURES TO PREVENT:
  1. DUST AND PARTICULATE RELATED AIR POLLUTION LEAVING THE PROPERTY
  2. SEDIMENTATION FROM ENTERING OFF-SITE AND/OR ON-SITE STORM SEWERS AND CATCHMENT BASINS
- CONTRACTOR TO ENSURE ZERO NET FILL IN FLOODPLAIN.

LEGEND

- Co — CONSTRUCTION EXIT
- Sd2-P — INLET PROTECTION - CURB INLET PROTECTION
- EXISTING PAVEMENT DEMOLISH FULL DEPTH
- REMOVE EXIST. CURB AND CONCRETE FLUME
- SPECIAL FLOOD HAZARD AREA (100-YEAR FLOOD)
- Rd — ROCK FILTER DAM
- OTHER FLOOD AREAS
- LIMITS OF DISTURBANCE
- XX NS — SILT FENCE - NON SENSITIVE
- R/W — RIGHT-OF-WAY LINE
- Ds1 — MULCHING
- Ds2 — TEMPORARY SEEDING
- Du — DUST CONTROL
- Ss — SLOPE STABILIZATION

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DP
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER EDWARD SEXENDER ABEBE
Edward Abebe 12/12/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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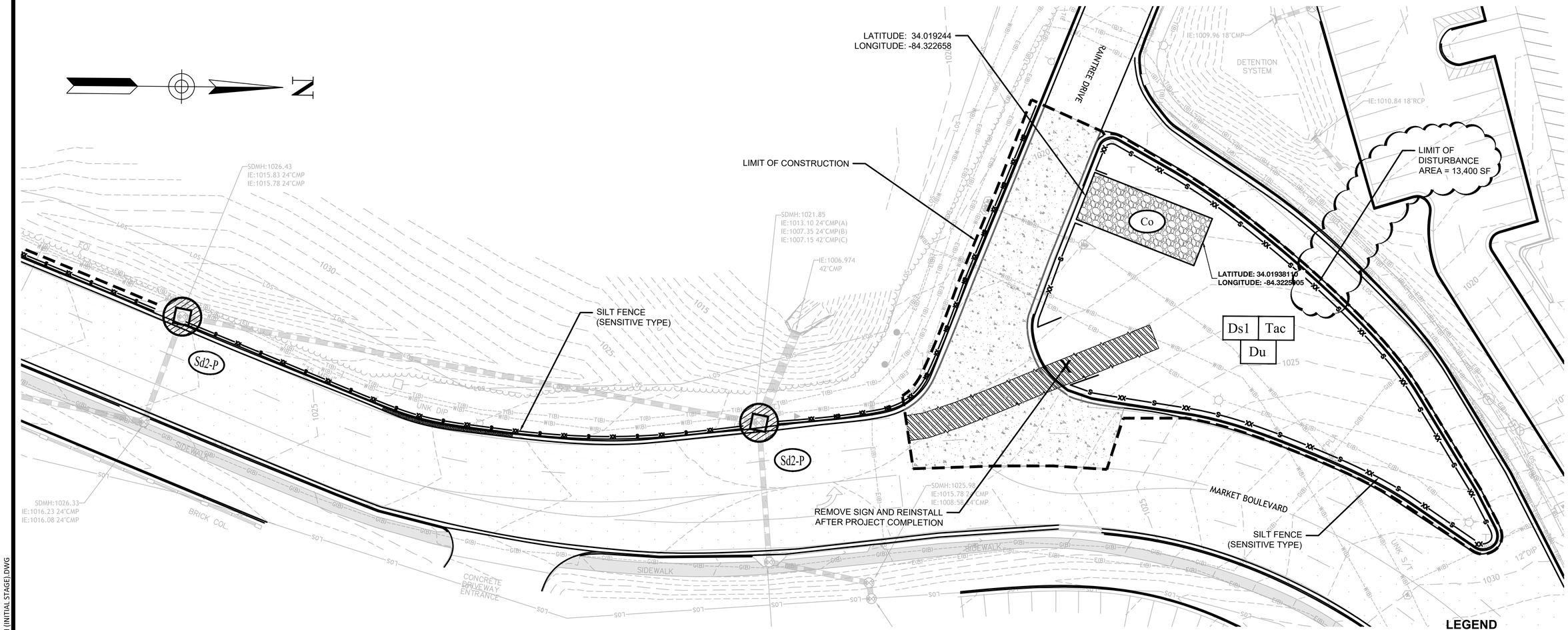
CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL PLAN (INITIAL STAGE) PLAN 1 OF 2

DATE
DECEMBER 23, 2022
ISSUED FOR
CONSTRUCTION
SHEET NUMBER
ES 01.01

PLOT DATE: 2/1/2023 3:15 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II PLAN (INITIAL STAGE).DWG



LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE - NON SENSITIVE
- Ds1 — ASPHALT SPRAY MULCHING
- Ds2 — TEMPORARY SEEDING
- Du — DUST CONTROL
- Tac — TACKIFIERS
- Ss — SLOPE STABILIZATION
- Co — CONSTRUCTION EXIT
- Sd2-P — INLET PROTECTION - CURB INLET PROTECTION
- EXISTING PAVEMENT DEMOLISH FULL DEPTH
- REMOVE EXIST. CURB

GRAPHIC SCALE

20 0 20 40

1" = 20'

HORIZONTAL

GEORGIA811 Utilities Protection Center, Inc.
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CAUTION

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GSWCC — Georgia Soil and Water Conservation Commission

Daniel T. Paulos
Level II Certified Design Professional
CERTIFICATION NUMBER 0000042346
ISSUED: 03/18/2022 EXPIRES: 03/18/2025

NOTES

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ALL SITE SOILS EXPOSED DURING DEMOLITION AND CONSTRUCTION INCLUDING SOIL STOCKPILED/STORED ON SITE, MUST BE PROTECTED FROM WIND AND RAIN EROSION THROUGH THE USE OF APPROPRIATE TEMPORARY MEASURES.

CONTRACTOR TO EMPLOY SUFFICIENT MEASURES TO PREVENT:
1. DUST AND PARTICULATE RELATED AIR POLLUTION LEAVING THE PROPERTY
2. SEDIMENTATION FROM ENTERING OFF-SITE AND/OR ON-SITE STORM SEWERS AND CATCHMENT BASINS

APPROPRIATE MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO: SITE WORK STAGED TO REDUCE THE DURATION OF EXPOSED SITE SOILS, USE OF GRAVEL AND/OR MULCH AS TEMPORARY COVER, SPRAYING OF SITE SOILS WITH WATER TO DAMPEN AND MITIGATE DUST DURING DRY CONDITIONS, COVERING STOCKPILED SOILS WITH A TARP, ETC.

CONTRACTOR TO ENSURE SLOPE MATTING MATERIAL TO BE COIR (COCONUT FIBER), NON-WILDLIFE ATTRACTANT, AND SALT LEACHED. MATTING TYPE BIODEGRADABLE AND DOES NOT REQUIRE REMOVAL.

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	EA
APPROVED BY	DP
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/27/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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CITY OF ATLANTA DEPARTMENT OF watershed management

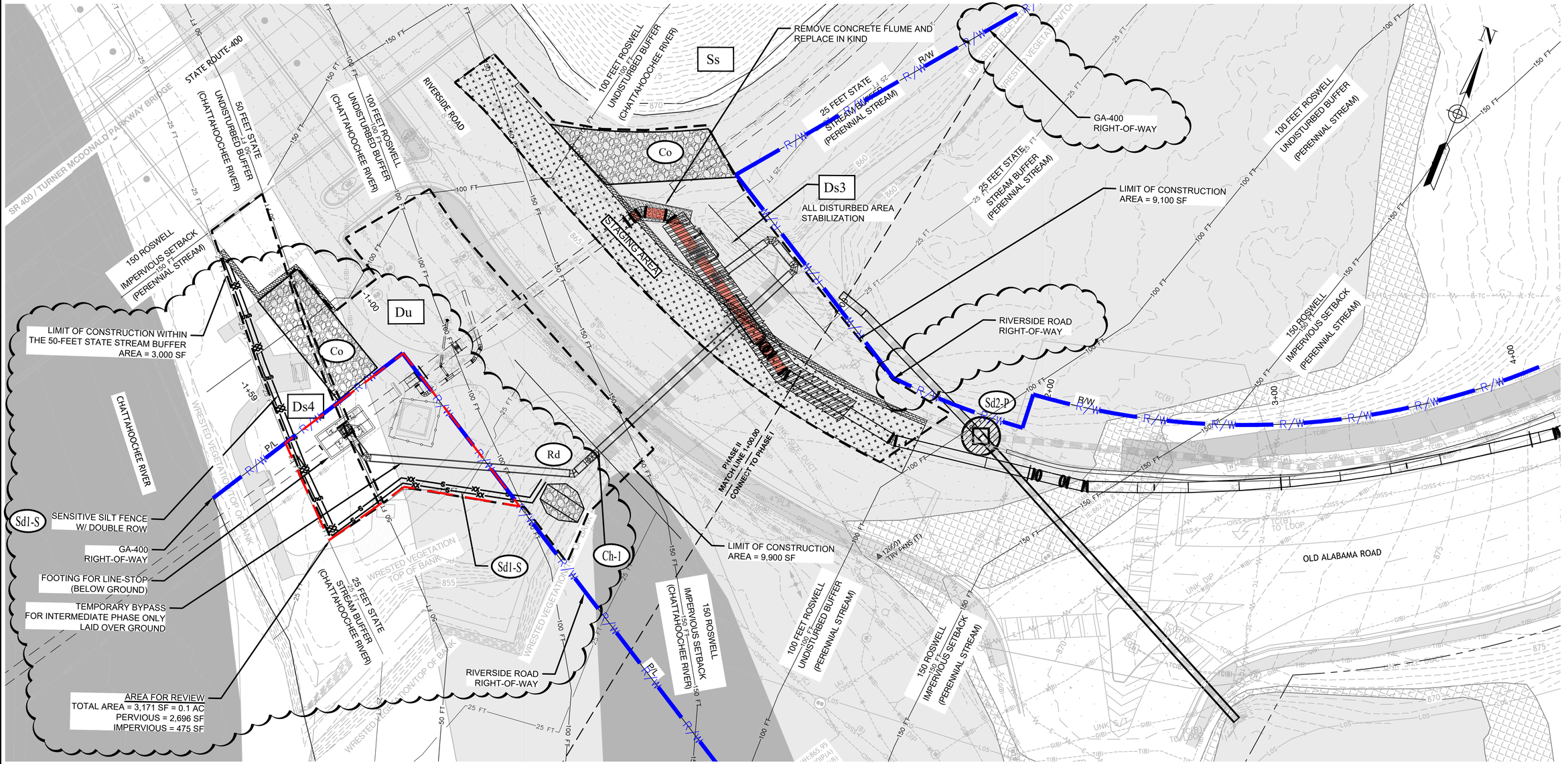
SHEET NAME
EROSION AND SEDIMENT CONTROL PLAN (INITIAL STAGE) PLAN 2 OF 2

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 01.02

PLOT DATE: 2/1/2023 3:14 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II PLAN (INITIAL STAGE).DWG



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GRAPHIC SCALE
20 0 20 40
1" = 20'
HORIZONTAL

GSWCC Georgia Soil and Water Conservation Commission

Daniel T. Paulos
Level II Certified Design Professional
CERTIFICATION NUMBER 0000042346
ISSUED: 03/18/2022 EXPIRES: 03/18/2025

NOTES (CONTINUATION)

- WATER MAIN EXEMPT FROM 50 FEET STREAM BUFFER ZONE STANDARDS.
- NO PERMANENT ABOVE GROUND STRUCTURE WITHIN 150-FT IMPERVIOUS SETBACK.

NPDES NOTES

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GRASS TYPE TO MATCH EXISTING TYPE.

CONTRACTOR TO ENSURE ZERO NET FILL IN FLOODPLAIN.

LEGEND

- NEW CURB & GUTTER
- Sd2-P — INLET PROTECTION - CURB INLET PROTECTION
- TRENCH RESTORATION PER GDOT STD 1401
- MILL AND REPAVE
- CONCRETE STRUCTURE
- LIMITS OF DISTURBANCE
- Rd — ROCK FILTER DAM
- XX NS — SILT FENCE - NON SENSITIVE
- Ds4 — DISTURBED AREA W/ SAME TYPE GRASS
- Ch-1 — VEGETATIVE LINING
- Du — DUST CONTROL
- Ss — SLOPE STABILIZATION
- SPECIAL FLOOD HAZARD AREA (100-YEAR FLOOD)
- OTHER FLOOD AREAS

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
2/2/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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CITY OF ATLANTA DEPARTMENT OF watershed management

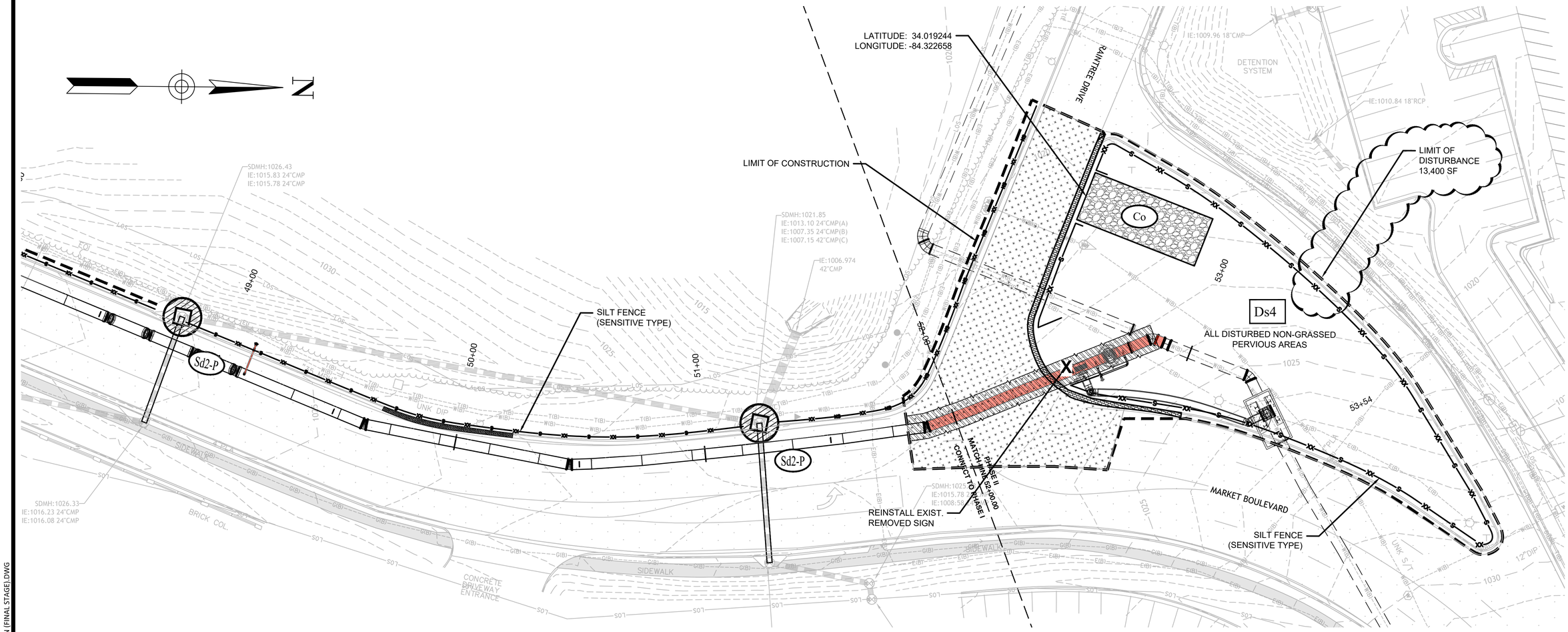
SHEET NAME
EROSION AND SEDIMENT CONTROL PLAN (INTERMEDIATE AND FINAL STAGE) PLAN 1 OF 2

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 02.01

PLOT DATE: 2/1/2023 3:16 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II PLAN (FINAL STAGE).DWG



GRAPHIC SCALE

20 0 20 40

1" = 20'

HORIZONTAL

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Daniel T. Paulos

Level II Certified Design Professional

CERTIFICATION NUMBER 0000042346

ISSUED: 03/18/2022 EXPIRES: 03/18/2025

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GRASS TYPE TO MATCH EXISTING TYPE.

LEGEND

- LIMITS OF DISTURBANCE
- XX NS SILT FENCE - NON SENSITIVE
- Ds4 DISTURBED AREA W/ SAME TYPE GRASS
- Ds2 TEMPORARY SEEDING
- Du DUST CONTROL
- Ss SLOPE STABILIZATION
- Sd2-P INLET PROTECTION - CURB INLET PROTECTION
- TRENCH RESTORATION PER GDOT STD 1401
- NEW CURB & GUTTER
- 1-1/2" TYPE-E ASPHALT PAVEMENT AND TACK COATS

RUBYCOLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE

2/1/2023

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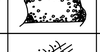
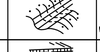
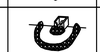
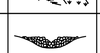
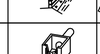
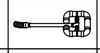
GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

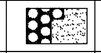
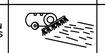
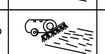
STRUCTURAL PRACTICES

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.
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 drop 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
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.
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.

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.
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 seedings 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 (SODDING)			A permanent vegetative cover using sods on highly erodable 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-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
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.

NON-STORM WATER DISCHARGES

NON-STORM WATER DISCHARGES AS DEFINED IN PART III.A.2 OF NPDES PERMIT WILL BE IDENTIFIED AFTER CONSTRUCTION HAS COMMENCED AND SHALL BE SUBJECT TO THE SAME REQUIREMENTS AS STORM WATER DISCHARGES AS REQUIRED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT, THE NPDES PERMIT, THE CLEAN WATER ACT, THE MANUAL FOR EROSION CONTROL IN GEORGIA, DEPARTMENT STANDARDS, AND CONTRACT DOCUMENTS.

PETROLEUM SPILLS & LEAKS

ANY LEAKS OR SPILLS OF PETROLEUM PRODUCTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

CONTROL OF POLLUTANTS: POLLUTANTS OR POTENTIALLY HAZARDOUS MATERIALS, SUCH AS FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS OR BATTERIES, SHALL BE TRANSPORTED, STORED AND UTILIZED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS. EQUIPMENT, ESPECIALLY CONCRETE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED OUT ON THE PROJECT EXCEPT IN AREAS WHERE UNUSED PRODUCT CONTAMINANTS CAN BE PREVENTED FROM ENTERING WATERWAYS.

OTHER CONTROLS

THE CONTRACTOR SHALL FOLLOW THIS ESPCP AND ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

WASTE DISPOSAL

SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY SECTION 404 PERMIT.

INSPECTIONS

ALL INSPECTIONS SHALL BE DOCUMENTED ON FORM DOT-EC-1.

DAILY:

DAILY INSPECTIONS SHALL BE CONDUCTED BY THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR QUALIFIED PERSONNEL ON THE FOLLOWING AREAS:

A. PETROLEUM PRODUCT STORAGE, USAGE AND HANDLING AREAS
B. ALL LOCATIONS WHERE VEHICLES ENTER/EXIT THE SITE
C. MEASURE RAINFALL ONCE EACH TWENTY FOUR HOUR PERIOD AT THE SITE

WEEKLY AND AFTER RAINFALL EVENTS:

THE FOLLOWING AREAS SHALL BE INSPECTED BY THE WECS OR QUALIFIED PERSONNEL EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCHES GREATER:

A. DISTURBED AREAS NOT PERMANENTLY STABILIZED
B. MATERIAL STORAGE AREAS
C. STRUCTURAL CONTROL MEASURES (BMP'S)

WITHIN 7 CALENDAR DAYS AFTER THE INITIAL INSTALLATION OF THE EROSION CONTROL DEVICES REQUIRED BY THE EROSION CONTROL PLAN, THE CONTRACTOR'S ENGINEER SHALL INSPECT THE INSTALLATION AND CONDITION OF EACH DEVICE. THIS INSPECTION SHALL BE PERFORMED FOR EACH STAGE OF CONSTRUCTION WHEN NEW DEVICES ARE INSTALLED. ALL DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE CONTRACTOR AND CONSTRUCTION MANAGER, AND CORRECTIONS SHALL BE MADE WITHIN TWO BUSINESS DAYS.

MONTHLY:

ONCE PER MONTH, THE WECS OR QUALIFIED PERSONNEL SHALL INSPECT ALL AREAS WHERE FINAL STABILIZATION HAS BEEN COMPLETED. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF SEDIMENTS OR POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND OR RECEIVING WATERS. ANY EROSION CONTROL DEVICES THAT REMAIN IN PLACE SHALL BE INSPECTED TO VERIFY THE MAINTENANCE STATUS AND THAT THE DEVICES ARE FUNCTIONING PROPERLY.

THESE INSPECTIONS SHALL CONTINUE UNTIL THE NOTICE OF TERMINATION IS SUBMITTED.

FAILURE TO PERFORM INSPECTIONS AS REQUIRED BY THE CONTRACT DOCUMENTS AND THE NPDES PERMIT SHALL RESULT IN THE CESSATION OF ALL CONSTRUCTION ACTIVITIES WITH THE EXCEPTION OF TRAFFIC CONTROL AND EROSION CONTROL. CONTINUED FAILURE TO PERFORM INSPECTIONS SHALL RESULT IN NON-REFUNDABLE DEDUCTIONS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

WASHOUT OF DRUMS AND WASHDOWN OF TOOLS INCLUDING, BUT NOT LIMITED TO CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES IS PROHIBITED ON THE PROJECT SITE.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT FENCE SHALL BE CLEANED WHEN SILT REACHES HALF WAY TO THE TOP WHETHER FENCE "BULGES" OR NOT.
5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT GA. D.O.T. QUALIFIED PRODUCTS LIST #36.

POSTS: STEEL T
FENCE: WOVEN WIRE, 14 GA.
6" MAX. MESH OPENING.
AS DIRECTED BY CITY OF ATLANTA

FILTER CLOTH: FILTER X, MIRAFI 100X'
STABILINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB
ENVIROFENCE OR APPROVED EQUAL

ESPCP GENERAL NOTES

THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) IS PROVIDED BY THE CONTRACTOR'S ENGINEER. AT MINIMUM, CONTRACTOR SHALL INSTALL INLET PROTECTION AROUND NEARBY INLETS AS WELL AS CONSTRUCTION EXITS. IN ADDITION, SILT FENCE SHOULD BE INSTALLED WHERE APPROPRIATE. IF THE CONTRACTOR ELECTS TO ALTER THE STAGE CONSTRUCTION FROM THAT SHOWN IN THE PLANS, AND THE ENGINEER APPROVES THE REQUEST, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVISE THE ESPCP TO REFLECT ALL CHANGES IN STAGING. THIS WILL ALSO INCLUDE ANY REVISIONS TO EROSION AND SEDIMENTATION CONTROL ITEM QUANTITIES. MAJOR MODIFICATION OR DELETION OF SPECIFIED STRUCTURAL BMP'S THAT ARE SPECIFIED IN THE ESPCP WILL REQUIRE A FORMAL REVISION OF THE ESPCP AND THE SIGNATURE OF THE GSWCC LEVEL II DESIGN PROFESSIONAL. ADDITIONAL BMP'S MAY BE ADDED AS DIRECTED BY THE ENGINEER.

AMMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. USE EROSION CONTROL MATTING ON ALL SLOPES STEEPER THAN 2.5H:1V ALL RIP RAP SHALL BE STONE DUMPED RIP RAP TYPE 3 AS PER THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. ALL PADS SHALL BE PLACED AT 0% GRADE. ALL REMAINING DISTURBED AREAS SHALL BE GRASSED.

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.

SILT FENCE INSTALLATIONS WITH J-HOOKS & SPURS

SILT FENCE SHOULD NEVER RUN CONTINUOUS WITHOUT J-HOOKS OR SPURS. THE SILT FENCE SHOULD TURNBACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIQUE OR CONFIGURATION IS COMMONLY REFERRED TO AS J-HOOKS OR SPURS. THE J-HOOKS OR SPURS SHALL BE INSTALLED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKMENTS OF SLOPES. THE J-HOOKS AND SPURS SHALL BE SPACED IN ACCORDANCE WITH THE TYPICAL LOCATION DETAILS FOR SILT FENCES/BALED STRAW. SPACING FOR J-HOOKS OR SPURS SHALL NOT BE LESS THAN 50 FEET EXCEPT AS NOTED. SILT FENCES ARE NEAR THE OUTLET OF CULVERTS, CROSS DRAINS, AND STORM DRAINS SHALL HAVE A MINIMUM OF 3 J-HOOKS OR SPURS ON BOTH SIDES OF THE STRUCTURE AT SPACING NOT TO EXCEED 30 FEET. J-HOOKS OR SPURS SHALL BE PAID FOR AS SILT FENCE ITEMS PER FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE C TEMPORARY SILT FENCE, OF GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION, AND BE WIRE REINFORCED.

MAINTENANCE & STABILIZATION MEASURES

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ALL STRUCTURAL BMP'S SHALL BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL SEDIMENT CONTROL DEVICES (EXCEPT SEDIMENT BASINS) INSTALLED ON A PROJECT SHALL AS A MINIMUM BE CLEANED OF SEDIMENT WHEN ONE-HALF THE CAPACITY, BY HEIGHT, DEPTH, OR VOLUME HAS BEEN REACHED. SEDIMENT BASINS SHALL BE CLEANED OF SEDIMENT WHEN ONE-THIRD THE CAPACITY BY VOLUME HAS BEEN REACHED.

AS A MINIMUM THE CONTRACTOR SHALL COMPLETE THE PERMANENT GRASSING, OR TEMPORARY GRASSING, OR MULCHING, AS APPROPRIATE AND IN ACCORDANCE WITH CONTRACT DOCUMENTS ON ALL FILL SLOPES ON A WEEKLY BASIS DURING GRADING OPERATIONS. WHEN CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE MORE FREQUENT INTERVALS FOR THIS WORK. IT IS EXTREMELY IMPORTANT TO GET A STABILIZING COVER IN PLACE, WHETHER IT IS MULCH, TEMPORARY GRASS OR PERMANENT GRASS. ADEQUATE MULCH IS A MUST.

WHEN GRADING OPERATIONS OR OTHER SOIL DISTURBING ACTIVITIES HAVE BEEN SUSPENDED, FOR WHATEVER REASON, THE CONTRACTOR SHALL PROMPTLY PERFORM NEEDED GRASSING WORK AND/OR EROSION CONTROL WORK AS SHOWN IN THE PLANS, SUBMITTED BY THE CONTRACTOR OR AS DIRECTED BY THE ENGINEER.

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.

TEMPORARY GRASS SHALL BE USED WHEN REQUIRED BY THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER TO CONTROL EROSION IN AREAS WHERE PERMANENT GRASSING CANNOT BE PLANTED. TEMPORARY GRASS SHALL BE USED WHERE AN AREA MUST BE PROTECTED FOR LONGER THAN MULCH IS EXPECTED TO LAST WHICH IS 60 CALENDAR DAYS, AREAS WITH ONLY MULCH SHALL BE PLANTED WITH TEMPORARY GRASS AND MULCHED AGAIN.

TEMPORARY GRASS SHALL BE A QUICK GROWING SPECIES SUITABLE TO THE AREA AND SEASON. SEEDS SHALL CONFORM TO THE REQUIREMENTS OF CONTRACT DOCUMENTS. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, EXCEPT THAT GROUND PREPARATION SHALL BE THE MINIMUM REQUIRED TO PROVIDE A SEED BED WHERE FURTHER GRADING WILL BE REQUIRED. AREAS THAT REQUIRE NO FURTHER GRADING SHALL BE PREPARED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. LIME SHALL BE OMITTED UNLESS THE AREA WILL LATER BE PLANTED IN PERMANENT GRASS WITHOUT FURTHER GRADING; IN WHICH CASE, LIME WILL BE APPLIED AT THE RATE OF 400 POUNDS PER ACRE. NITROGEN SHALL BE OMITTED. ALL TEMPORARY GRASS SHALL BE MULCHED IN ACCORDANCE WITH CONTRACT DOCUMENTS.

WHERE STAGED CONSTRUCTION (OR OTHER CONDITIONS NOT CONTROLLED BY THE CONTRACTOR) PROHIBITS THE COMPLETION OF AN AREA, THE CONTRACTOR SHALL APPLY MULCH TO CONTROL EROSION FOR A PERIOD OF 60 CALENDAR DAYS, AREAS STABILIZED WITH ONLY MULCH SHALL BE PLANTED WITH TEMPORARY GRASS AND MULCHED AGAIN.

MULCH SHALL BE APPLIED AND UNIFORMLY SPREAD IN ACCORDANCE WITH CONTRACT DOCUMENTS.

WHEN GRASSING OPERATIONS BEGIN, MULCH SHALL BE LEFT IN PLACE AND PLOWED INTO THE SOIL DURING THE PROCESS OF SEEDBED PREPARATION, THEREBY BECOMING BENEFICIAL PLANT FOOD FOR THE NEWLY PLANTED GRASS. MULCH REQUIRED FOR PROTECTION OF NEWLY PLANTED GRASS SHALL BE IN ADDITION TO THE MULCH SPECIFIED HEREIN.

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHENDER ABEBE
8/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

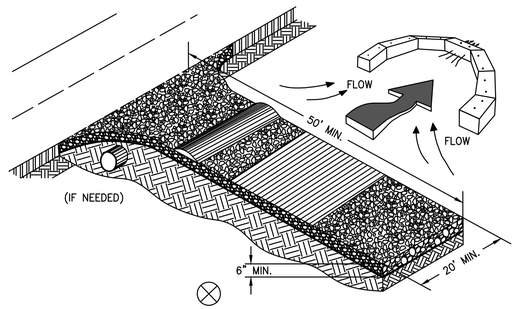
SHEET NAME
EROSION AND SEDIMENT CONTROL DETAILS

DATE
DECEMBER 23, 2022
ISSUED FOR
CONSTRUCTION
SHEET NUMBER
ES 05.01

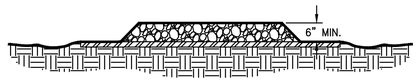
PLOT DATE: 12/22/2022 1:34 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II DETAILS.DWG

Co CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM

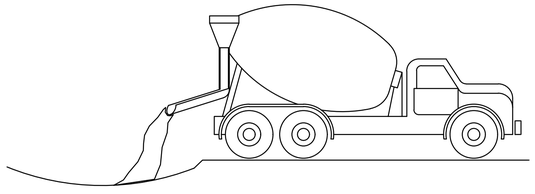


ENTRANCE ELEVATION



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. 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).
9. 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.
10. 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.

CONCRETE TRUCK WASHDOWN



DESIGNATE WASHDOWN AREA AND EXCAVATE PIT LARGE ENOUGH TO CONTAIN WASHDOWN WATER. THIS MUST BE AWAY FROM STORM DRAINS AND WATERWAYS.

ADVISE CONCRETE TRUCK DRIVERS OF THE DESIGNATED WASH-OUT AREAS BEFORE THEY START THE JOB.

WASHDOWN CHUTE, HOPPER, AND REAR OF VEHICLE ONLY. DO NOT WASH OUT DRUM

ENSURE THAT ALL WASHDOWN WATER STAYS IN PIT.

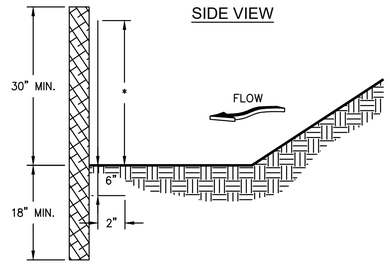
DISPOSE OF SETTLED, HARDENED CONCRETE IN GARBAGE WITH OTHER CONSTRUCTION DEBRIS.

NEVER DISPOSE OF WASHDOWN WATER IN STREETS, STORM DRAINS, OR STREAMS.

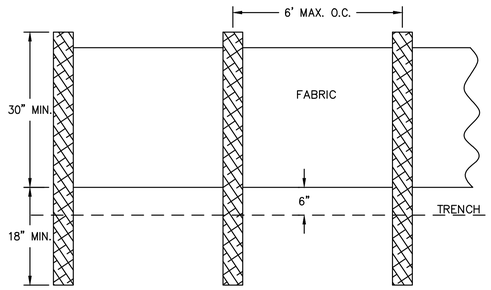
CONTRACTOR SHALL REMOVE WASH OUT MATERIAL AT END OF PROJECTS.

Sd1 SILT FENCE – TYPE NON-SENSITIVE – Sd1-NS

SIDE VIEW



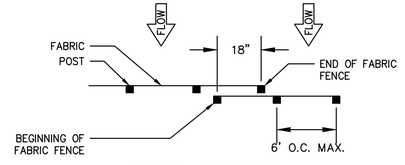
FRONT VIEW



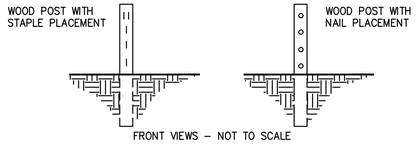
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
3. SILT FENCE SHOULD NEVER BE RUN CONTINUOUSLY. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIQUE IS CALLED USING J HOOKS (OR SPURS). THE J HOOKS SHALL BE UTILIZED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKMENTS OR SLOPES. THE J HOOKS SHALL BE SPACED IN ACCORDANCE WITH GDOT CONSTRUCTION DETAIL D-24C. THE MAXIMUM J-HOOK SPACING IS REACHED WHEN THE TOP OF THE J HOOK IS AT THE SAME ELEVATION AS THE BOTTOM OF THE IMMEDIATELY UPGRADIENT J HOOK. J HOOKS SHALL BE PAID FOR AS SILT FENCE ITEMS PER LINEAR FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



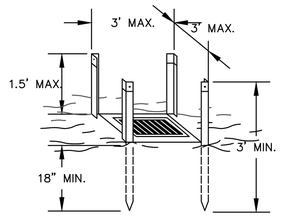
TOP VEIW – NOT TO SCALE

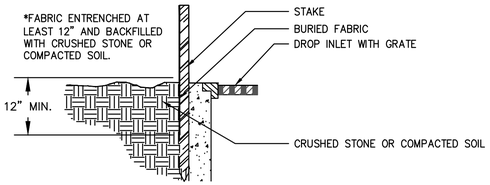


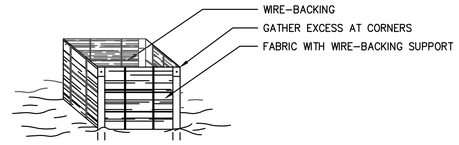
FRONT VIEWS – NOT TO SCALE

Sd2 FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION – Sd2-F

STEEL FRAME AND SILT FENCE INSTALLATION







NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART.)
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.
5. IN ORDER TO PREVENT RUNOFF FROM BYPASSING INLET SEDIMENT TRAPS, A TEMPORARY SUMP SHALL BE INSTALLED AROUND ALL INLET SEDIMENT TRAPS THAT ARE NOT LOCATED IN A LOW POINT OR AN EXCAVATED SUMP. CONSTRUCT TEMPORARY SUMPS IN ACCORDANCE WITH GDOT CONSTRUCTION DETAIL D-24C (THIS SHEET). TEMPORARY SUMPS SHALL BE INSTALLED IN A MANNER THAT ENSURES STORMWATER DOES NOT BYPASS THE INLET. THE CONTRACTOR MAY SUBMIT ALTERNATE TEMPORARY CONTAINMENT BERM DESIGNS TO THE PROJECT ENGINEER FOR APPROVAL.

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

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FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II DETAILS.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHAVENDER ABEBE
2/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL DETAILS

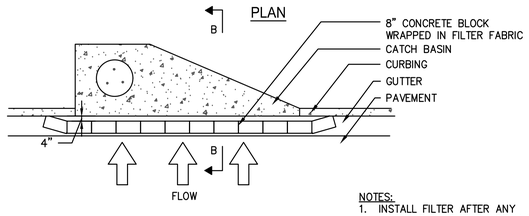
DATE
DECEMBER 23, 2022

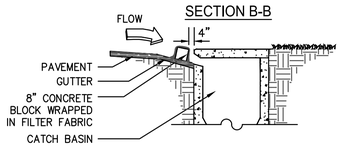
ISSUED FOR
CONSTRUCTION

SHEET NUMBER
ES 05.02

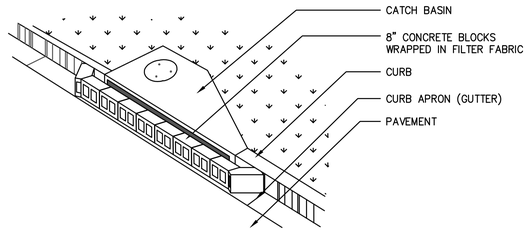
Sd2

CURB INLET FILTER "PIGS IN BLANKET" - Sd2-P



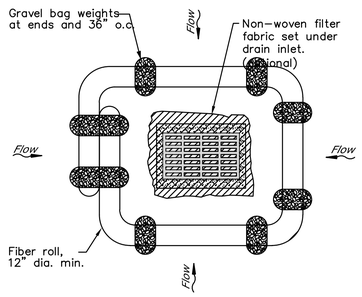


NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



Sd2

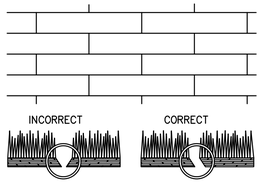
FILTER SOCK INLET PROTECTION - Sd2-P



Ds4

SOD INSTALLATION AND MAINTENANCE
(PER SPECIFICATION T-904)

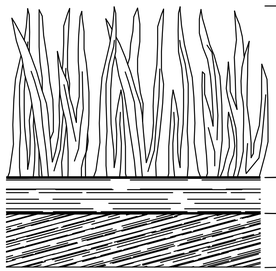
SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES : GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

NOTES:
1. SODDING PRACTICES INCLUDING PLANT SPECIES, PLANTING DATES, SEEDING, FERTILIZING, LIMING, AND WATERING FOR THIS PROJECT CAN BE FOUND IN SECTION T-904 OF THE SPECIFICATIONS AND OTHER APPLICABLE CONTRACT DOCUMENTS, OR LANDSCAPING PLANS.

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

(PLASTIC ALTERNATE)

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

(METAL ALTERNATE)

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

(FROM GDOT DETAIL D-24C)

INLET SEDIMENT TRAP - FOR DROP INLETS

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No.	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/22/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL DETAILS

DATE
DECEMBER 23, 2022
ISSUED FOR
CONSTRUCTION
SHEET NUMBER
ES 05.03

PLOT DATE: 12/22/2022 1:35 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II DETAILS.DWG

Du DUST CONTROL

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

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.

METHOD AND MATERIALS

A. 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 TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK 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 TB-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 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, SNOW FENCES, 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 RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. 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 EROSIVE SOIL MATERIAL. SEE STANDARD TP – TOPSOILING. STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

Ds1 MULCHING (DISTURBED AREA STABILIZATION W/O SEEDING) (PER SPECIFICATION T-908)

DEFINITION

THIS ITEM SHALL CONSIST OF FURNISHING, HAULING, PLACING AND SECURING ASPHALT SS-1 MULCH AS SPECIFIED BY THE ENGINEER.

CONDITIONS

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

MATERIAL

ASPHALT SPRAY MULCH – ASPHALT SPRAY MULCH SHALL BE TYPE SS-1, WITH 57% TO 59% RESIDUAL ASPHALT, MIXED WITH EQUAL PARTS OF WATER.

CONSTRUCTION METHOD

MULCHING – BEFORE SPREADING MULCH, ALL LARGE CLODS, STUMPS, STONES, BRUSH, ROOTS AND OTHER FOREIGN MATERIAL SHALL BE REMOVED FROM THE AREA TO BE MULCHED. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. THE SPREADING OF THE MULCH MAY BE BY HAND METHODS, BLOWER OR OTHER MECHANICAL METHODS, PROVIDED A UNIFORM COVERING IS OBTAINED.

MULCH MATERIALS SHALL BE FURNISHED, HAULED AND EVENLY APPLIED ON THE AREA SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER.

CARE AND REPAIR:

1. THE CONTRACTOR SHALL CARE FOR THE MULCHED AREAS UNTIL FINAL ACCEPTANCE OF THE PROJECT. SUCH CARE SHALL CONSIST OF PROVIDING PROTECTION AGAINST TRAFFIC OR OTHER USE BY PLACING WARNING SIGNS, AS APPROVED BY THE ENGINEER, AND ERECTING BARRICADES THAT MAY BE SHOWN ON THE PLANS BEFORE OR IMMEDIATELY AFTER MULCHING HAS BEEN COMPLETED ON THE DESIGNATED AREAS.
2. THE CONTRACTOR SHALL BE REQUIRED TO REPAIR OR REPLACE ANY MULCHING THAT IS DEFECTIVE OR BECOMES DAMAGED UNTIL THE PROJECT IS FINALLY ACCEPTED. WHEN, IN THE JUDGEMENT OF THE ENGINEER, SUCH DEFECTS OR DAMAGES ARE THE RESULT OF POOR WORKMANSHIP OR FAILURE TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS, THE COST OF THE NECESSARY REPAIRS OR REPLACEMENT SHALL BE BORNE BY THE CONTRACTOR. AREAS REQUIRING REWORKING AND RE-SEEDING THAT PREVIOUSLY HAVE BEEN MULCHED WILL BE MULCHED AT NO ADDITIONAL COST TO THE CITY. HOWEVER, ONCE THE CONTRACTOR HAS COMPLETED THE MULCHING OF ANY AREA IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER, NO ADDITIONAL WORK AT HIS EXPENSE WILL BE REQUIRED, BUT SUBSEQUENT REPAIRS AND REPLACEMENTS DEEMED NECESSARY BY THE ENGINEER SHALL BE MADE BY THE CONTRACTOR AND WILL BE PAID FOR AS ADDITIONAL OR EXTRA WORK, PROVIDED THAT THE AREAS REQUIRING REWORKING WERE NOT THE FAULT OF THE CONTRACTOR AND AN ACCEPTABLE STAND OF GRASS HAD BEEN ESTABLISHED.
3. ALL ASPHALT SPRAY MULCH SHALL BE APPLIED AT THE RATE OF 0.35 GALLONS PER SQUARE YARD. THE BINDER MATERIAL MAY BE SPRAYED ON THE MULCHED SLOPE AREAS FROM EITHER THE TOP OR THE BOTTOM OF THE SLOPE. AN APPROVED SPRAY NOZZLE SHALL BE USED. THE NOZZLE SHALL BE OPERATED AT A DISTANCE OF NOT LESS THAN 4 FEET FROM THE SURFACE OF THE MULCH AND UNIFORM DISTRIBUTION OF THE MATERIAL SHALL BE REQUIRED. A PUMP OR AN AIR COMPRESSOR OF ADEQUATE CAPACITY SHALL BE USED TO INSURE UNIFORM DISTRIBUTION OF THE MATERIAL.

Tac TACKIFIERS AND BINDERS

PURPOSE

TO PREVENT THE MOVEMENT OF MULCHING MATERIAL FROM THE DESIRED LOCATION. INCREASES PERFORMANCE OF THE MULCHING MATERIAL, SO THAT IT CAN:

- INCREASE INFILTRATION
- REDUCE WIND AND WATER EROSION
- CONSERVE MOISTURE, PREVENT SURFACE COMPACTION OR CRUSTING
- CONTROL UNDESIRABLE VEGETATION
- MODIFY SOIL TEMPERATURE
- INCREASE BIOLOGICAL ACTIVITY IN THE SOIL

CONDITIONS

ALL ORGANIC MULCHING MATERIALS SHALL BE ANCHORED BY TACKIFIERS/BINDERS OR MATTING/NETTING. TACKIFIERS AND BINDERS ARE USED TO ANCHOR WOOD CELLULOSE, WOOD PULP FIBER, AND OTHER MULCH MATERIALS APPLIED WITH HYDROSEEDING EQUIPMENT.

APPROVED TACKIFIERS AND BINDERS

EMULSIFIED ASPHALT SHALL BE 57% TO 59% RESIDUAL ASPHALT, MIXED WITH EQUAL PARTS OF WATER APPLIED AT A RATE OF 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.

APPROPRIATE SOD VARIETIES FOR ATLANTA

GRASS	VARIETY	GROWING SEASON
BERMUDA	COMMON TIFWAY TIFGREEEN, TIFLAWN	WARM WEATHER
BAHIA	PENSACOLA	WARM WEATHER
CENTIPEDE	---	WARM WEATHER
ZOYSIA	EMERALD MEYER	WARM WEATHER
TALL FESCUE	KENTUCKY	COOL WEATHER

GRASS TYPE	PLANTING YEAR	FERTILIZER (NPK)	RATE (LBS/ ACRE)	NITROGEN TOP DRESSING (LBS/ ACRE)
COOL SEASON GRASSES	1ST 2ND MAINTENACE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 --- 30
WARM SEASON GRASSES	1ST 2ND MAINTENACE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

SOIL PREPARATION

BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.
MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR GENERAL APPLICATION OF 10-10-10 @ 1000 LBS PER ACRE (1 LB /40 SQ. FT.)
AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS / ACRE.

Ds4 STABILIZATION WITH SODDING

FLOW DIVERSION AND SEDIMENT FILTER

CONTRACTOR TO USE PRODUCTS Dura Wattle and Vesra Wattle OR PRODUCT EQUAL TO BE PLACED UPSTREAM OF THE EXCAVATION PIT ACROSS THE ASPHALT ROAD AND TO REDIRECT SURFACE STORM WATER INTO CATCH BASINS.

SURFACE STORM WATER DIVERSION AND SEDIMENT FILTER ACROSS ROAD

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025739 PROFESSIONAL ENGINEER ESKENDER ABEBE
8/8/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL DETAILS

DATE
DECEMBER 23, 2022
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CONSTRUCTION
SHEET NUMBER
ES 05.04

PLOT DATE: 12/22/2022 1:35 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II DETAILS.DWG

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast Rates 2/- Per Acre	Broadcast Rates 2/- PLS 3/ Per 1000 sq. ft	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BARLEY (Hordeum vulgare)			P		
alone	3 bu. (144 lbs.)	3.3 lb.			14,000 seed per pound. Winterhardy. Use on productive soils.
in mixture	1/2 bu. (24 lbs.)	0.6 lb.			
LESPEDEZA, ANNUAL (Lespedeza striata)			P		200,000 seed per pound. May volunteer for several years. Use inoculant EL.
alone	40 lbs.	0.9 lb.			
in mixtures	10 lbs.	0.2 lb.			
LOVEGRASS, WEEPING (Eragrostis curvula)			P		1, 500,000 seed per pound. May last for several years. Mix with Sericea lespedeza.
alone	4 lbs.	0.1 lb.			
in mixtures	2lbs.	0.05 lb.			
MILLET, BROWNTOP (Panicum fasciculatum)		C	P		137,000 seed per pound. Quick dense cover. Will provide too much competition in mixtures if seeded at high rates.
alone	40 lbs.	0.9 lb.			
in mixtures	10 lbs.	0.2 lb.			

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

Species	Broadcast Rates 2/ Per Acre	Broadcast Rates 2/ - PLS 3/ Per 1000 sq. ft.	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MILLET, PEARL (Pennesetum glaucum)			P		88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
alone	50 lbs.	1.1 lb.			
OATS (Avena sativa)			P		13,000 seed per pound. Use on productive soils. Not as winterhardy as rye or barley.
alone	4 bu. (128 lbs.)	2.9 lb.			
in mixtures	1 bu. (32 lbs.)	0.7lb.			
RYE (Secale cereale)			P		18,000 seed per pound. Quick cover. Drought tolerant and winterhardy.
alone	3 bu. (168 lbs.)	3.9 lb.			
in mixture	1/2 bu. (28 lbs.)	0.6 lb.			
RYEGRASS, ANNUAL (Lolium temulentum)			P		227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
alone	40 lbs.	0.9 lb.			
SUDANGRASS (Sorghum Sudanese)			P		55,000 seed per pound. Good on droughty soils. Not recommended for mixtures.
alone	60 lbs.	1.4lb			

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

Species	Broadcast Rates 2/- Per Acre	Broadcast Rates 2/- PLS 3/ Per 1000 sq. ft	Resource Area 4/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
WHEAT (Triticum Aestivum)			P		15,000 seed per pound.
alone	3 bu. (180 lbs.)	4.1 lb.			
in mixtures	1/2 bu. (30 lbs.)	0.7 lb.			

1/ Temporary cover crops are very competitive and will crown out perennials if is seeded too heavily.
2/ Reduce seeding rates by 50% when drilled.
3/ PLS is an abbreviation for Pure Live Seed.
4/ P represents the Southern Piedmont MLRA

Ds2 STABILIZATION WITH TEMPORARY SEEDING

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Broadcast Rates 1/- Per Acre	Broadcast Rates 1/- PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BAHIA, ARGENTINA (Paspalum notatum)			P		100,000 seed per pound. Low growing, Sod forming. Slow to establish. Plant with a companion crop. Will spread into bermuda pastures and lawns. Mix with Sericea lespedeza or weeping lovegrass.
alone or with temporary cover	60 lbs.	1.4 lb.			
with other perennials	30 lbs.	0.7 lb.			
BAHIA, WILMINGTON (Paspalum notatum)			P		Same as above.
alone or with temporary cover	60 lbs.	1.4 lb.			
with other perennials	30 lbs.	0.7 lb.			
BERMUDA, COMMON (Cynodon dactylon) Hulled seed			P		1,797,665 seed per pound. Quick cover, Low growing and sod forming. Full sun. Good for athletic fields.
alone	10 lbs.	0.2 lb.			
with other perennials	6 lbs.	0.1 lb.			

Species	Broadcast Rates 1/- Per Acre	Broadcast Rates 1/- PLS 2/ Per 1000 SQ. FT.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
BERMUDA, COMMON (Cynodon dactylon) Unhulled seed			P		
with temporary cover	10 lbs.	0.2 lb.			Plant with winter annuals.
with other perennials	6 lbs.	0.1 lb.			Plant with tall fescue.
BERMUDA, SPRIGS (Cynodon dactylon)	40 cu. ft.	0.9 cu. ft. or sod plugs 2' x 2'			A cubic foot contains approximately 800 sprigs. A bushel contains 1 .25 cubic feet or approximately 800 sprigs.
Coastal, Common, Midland, or TifI 44			P		Same as above.
Coastal, Common,					
CENTIPEDE (Eremochloa ophiuroides)		Block sod only	P		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in concentrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far north as Athens and Atlanta.

Species	Broadcast Rates 1A- Per Acre	Broadcast Rates 1A- PLS 2/ Per 1000 sq. ft	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
CROWNVETCH (Coronilla varia)					169,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pea, and white blossoms spring to fall. Inoculate seed with contents of Tailhouse or 75 pounds of non- inoculated seed with M. inoculant. Use from North Atlanta and Northward.
with other annuals or cool season grasses	15 lbs.	0.3 lb.	P		
FESCUE, TALL (Festuca arundinacea)					227,000 seed per pound. Use alone only on better sites, but fair drought by soils. Mix with perennial lespedeza or crownvetch. Apply top dressing in spring follow my fall plantings. Not for heavy use areas or athletic fields.
alone	50 lbs.	1.1 lbs.	P		
with other perennials	30 lbs.	0.7 lb.			

Species	Broadcast Rates 1/- Per Acre	Broadcast Rates 1/- PLS 2/ Per 1000 sq. ft.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
LESPEDEZA, SERICEA (Lespedeza cuneata)					300,000 seed per pound. Widely adapted. Low maintenance. Mix with weeping lovegrass, common bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
scarified	60 lbs.	1.4 lbs.	P		
unscarified	75 lbs.	1.7 lb.	P		Mix with Tall fescue or winter annuals.
seed-bearing hay	3 tons	138 lb.	P		Cut when seed is mature, but before it shatters. Add Tall fescue or winter annuals.

Species	Broadcast Rates 1/- PLS 2/ Per 1000 SQ.FT.	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
LESPEDEZA Kobe x korean (Lespedeza x kobe DC.) or Appalow (Lespedeza cuneata (Dumont) G. Don)				300,000 seed per pound. Height of growth is 18 to 24 inches. Adaptable to most areas. Spreading type grower that tends to crowd out weeds. Mix with Weeping lovegrass, Common bermuda, bahia, tall fescue or winter annuals. Do not mix with Kobe lespedeza. Use for fair to poorly drained soils. Inoculate seed with EL inoculate.
scarified	60 lbs.	1.4 lb.	P	
unscarified	75 lbs.	1.7 lb.	P	
LESPEDEZA, SHRUB (Lespedeza bicolor) (Lespedeza thunbergii) plants	2'x2'	P		Provide wildlife food and cover
LOVEGRASS, WEEPING (Eragrostis curvula)				1,500,000 seed per pound. Quick cover. Drought tolerant. Often used with Sericea lespedeza on roadbanks.
alone	4 lbs.	0.1 lb.	P	
with other perennials	2 lbs.	0.05 lb.		

Species	Broadcast Rates 1/- Per Acre	Broadcast Rates 1/- PLS 2/ Per 1000 sq. ft	Resource Area 3/	Planting Dates by Resource Areas (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
MUDDICANE (Panicum hemitomon)					Fair very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
sprigs	2' x 3' spacing		ALL		
PANICGRASS, ATLANTIC COASTAL (Panicum amarum var. amarulum)	20 lbs.	0.5 lb.	P		Grows well on coastal sand dunes, barrier areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
REED CANARY GRASS (Phalaris arundinacea)					Grows similar to tall fescue.
alone	50 lbs.	1.1 lb.	P		
with other perennials	30 lbs.	0.7 lb.			
SUNFLOWER, VAZTEC MAXIMILIAN (Helianthus maximiliani)	10 lbs.	0.2 lb.	P		227,800 seed per pound. Mix with weeping lovegrass or other low-growing grasses or legumes.

Ds3 STABILIZATION WITH PERMANENT VEGETATION

Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	
	Second	10-10-10	1300 lbs./ac. 3/	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

FERTILIZER RATES FOR PERMANENT VEGETATION (Ds-3)

PLOT DATE: 12/22/2022 1:36 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\EROSION CONTROL\E&SC-II DETAILS.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/21/2023

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
EROSION AND SEDIMENT CONTROL DETAILS

DATE
DECEMBER 23, 2022
ISSUED FOR
CONSTRUCTION
SHEET NUMBER
ES 05.05

TRAFFIC CONTROL GENERAL NOTES

1. THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR MAY USE TYPE IV OR VIII BLACK AND FLUORESCENT ORANGE CONSTRUCTION SIGNS FROM THE 2018 SPECIAL AND STANDARD HIGHWAY DRAWINGS IN LIEU OF THE TYPE XI BLACK AND FLUORESCENT ORANGE CONSTRUCTION SIGNS SPECIFIED IN THE 2019 SPECIAL AND STANDARD HIGHWAY DRAWINGS.
3. DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA APPROVED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS.
4. WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK ETC. OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER.
6. DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC, EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE.
7. THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.
8. ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
9. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.
10. CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.
11. FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.
12. FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.
13. FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.
14. ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.
15. THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.
16. REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER.
17. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
18. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.
19. ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.
20. DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.
21. A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.
22. SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.
23. MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.
24. THE TRANSITION TAPER LENGTH LI IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 5C-2 OF THE MUTCD, PART 5, 2009 EDITION.
25. UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.
26. THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.
27. FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.
28. CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
29. CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.
30. CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.
31. CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS, SHOULD BE SPACED AT 50 FOOT INTERVALS.
32. CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC, SHOULD BE SPACED AT 50 FOOT INTERVALS.
33. CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

CITY OF ROSWELL TRANSPORTATION NOTES

1. THESE CONSTRUCTION DRAWING APPROVALS DO NOT ALLOW ANY WORK ON CITY RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, POWER, TELEPHONE, GAS, ETC). CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK PERFORMED WITHIN THE CITY RIGHT-OF-WAY. CONTACT CITY OF ROSWELL TRANSPORTATION DEPARTMENT AT 770-594-6108 FOR ADDITIONAL INFORMATION.
2. CALL BEFORE YOU DIG (800) 282-7411 OR 811.
3. NO ADVERTISING SIGNS, DISPLAYS, OR ANY OTHER STRUCTURES, WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM, ARE PERMITTED INSIDE CITY RIGHT-OF-WAY.
4. THESE CONSTRUCTION DRAWINGS ARE APPROVED WITH THE UNDERSTANDING THAT ALL EASEMENTS AND RIGHT-OF-WAY ARE GRANTED TO THE CITY OF ROSWELL ALONG ALL ROAD FRONTAGES FOR THE PURPOSE OF SLOPING CUTS AND FILLS AS FOLLOWS: 0' TO 5' - NOT LESS THAN 3 TO 1 SLOPE 5' OR MORE - NOT LESS THAN 2 TO 1 SLOPE.
5. DRIVEWAYS SHALL BE CONSTRUCTED OF CONCRETE AND SLOPED PER GEORGIA HIGHWAY STANDARD 9031-J. CURB SHALL NOT BE BROKEN FROM GUTTER. CURB AND GUTTER TO BE REMOVED TO EXISTING CONSTRUCTION JOINTS OR NEW JOINTS SAWED.
6. APPLICANT SHALL RE-GRASS TO STATE HIGHWAY DEPARTMENT SPECIFICATIONS ALL CITY RIGHT-OF-WAY AREAS THAT ARE DAMAGED OR DISTURBED DURING WORK AUTHORIZED HEREIN.
7. SANITARY SEWER AND WATER LINES MUST PASS INSPECTION BEFORE STREETS CAN BE PAVED.
8. ALL HANDICAP RAMPS SHALL BE A MINIMUM OF 3.0' IN WIDTH AND AT A MAXIMUM 12:1 SLOPE AND SHALL CONFORM TO GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
9. BUILDER SHALL BE RESPONSIBLE FOR INSTALLATION OF SIDEWALKS IN ACCORDANCE WITH THE APPROVED PERMIT PLANS AND THE CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL SIDEWALK IS INSPECTED AND ACCEPTED.
10. ANY NEW SECTION OF ROADWAY IS REQUIRED TO BE BUILT TO CITY STANDARDS MUST BE TESTED FOR THICKNESS OF CRUSHER RUN BASE AND ASPHALT; AND THE ASPHALT MUST BE CORED, TO DETERMINE PERCENTAGE OF COMPACTION. CORES SHALL BE TAKEN NO LESS THAN THREE HUNDRED FEET (300') APART AT STAGGERED INTERVALS.
11. COMPACTION REPORTS SHALL BE FURNISHED TO THE CITY ON ALL UTILITY EXCAVATIONS WITHIN ROADWAY.
12. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY HYDRO-BLASTING (PREFERRED) OR GRINDING, UNLESS SPECIFIED OTHERWISE BY ROSWELL TRAFFIC ENGINEER.
13. ALL ROAD STRIPING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PRE-MARKED AND APPROVED BY THE CITY OF ROSWELL TRANSPORTATION DEPARTMENT, PRIOR TO FINAL STRIPING. CONTACT THE ROSWELL TRAFFIC ENGINEER (770-594-6428) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK. ALL PAVEMENT STRIPING ON COLLECTORS OR HIGHER CLASSIFIED ROADS MUST BE THERMOPLASTIC, UNLESS OTHERWISE SPECIFIED BY THE TRAFFIC ENGINEER.
14. ALL FINAL SIGNAGE MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.

RUBYCOLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESHVENDER ABEBE

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

TRAFFIC CONTROL GENERAL NOTES

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
T 02.01

PLOT DATE: 12/22/2022 2:46 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\TRAFFIC CONTROL PLAN\TCP-II GENERAL NOTES.DWG

GEORGIA 811 Utilities Protection Center, Inc.

Know what's below. Call before you dig.

CAUTION

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN TEAM ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC CONTROL NOTES

1. THIS SETUP IS ONLY DURING THE BEGINNING OF THE CONSTRUCTION PHASE WHERE LAYING OF THE 48" PIPE IS CLOSE TO THE TRAFFIC LIGHT.
2. CONTRACTOR TO ADD MORE SIGNAGE AS NEEDED PER THE INSTRUCTION OF THE INSPECTOR.
3. CONTRACTOR TO COORDINATE WITH CITY OF ROSWELL-DEPARTMENT OF TRAFFIC ENGINEERING TO CHANGE THE TRAFFIC LIGHTS AT THE INTERSECTION AS APPROPRIATE.
4. CONTRACTOR TO REMOVE SOME OF THE WHITE STRIPING WITH HYDRO-PRESSURE AND REPLACE WITH SAME KIND AFTER AFTER COMPLETION OF THE CONSTRUCTION PHASE.
5. FOR MORE INFORMATION ON THE HOURS OF OPERATION REFER TO TCP DETAILS SHEET.
6. FOR MORE INFORMATION SEE TCP DETAIL SHEET.

GRAPHIC SCALE

40 0 80 120

1" = 40'

HORIZONTAL

PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- WORK AREA LIMITS
- TEMPORARY SIGN LOCATION
- TRAFFIC CONTROL CONE
- STAGING AREA
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

RUBY COLLINS

BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	AK
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
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A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME

TRAFFIC CONTROL PLAN SHEET 1 OF 1

DATE: DECEMBER 23, 2022

ISSUED FOR: CONSTRUCTION

SHEET NUMBER: T 02.02

PLOT DATE: 12/22/2022 2:45 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\TRAFFIC CONTROL PLAN\TCP-II PLAN.DWG

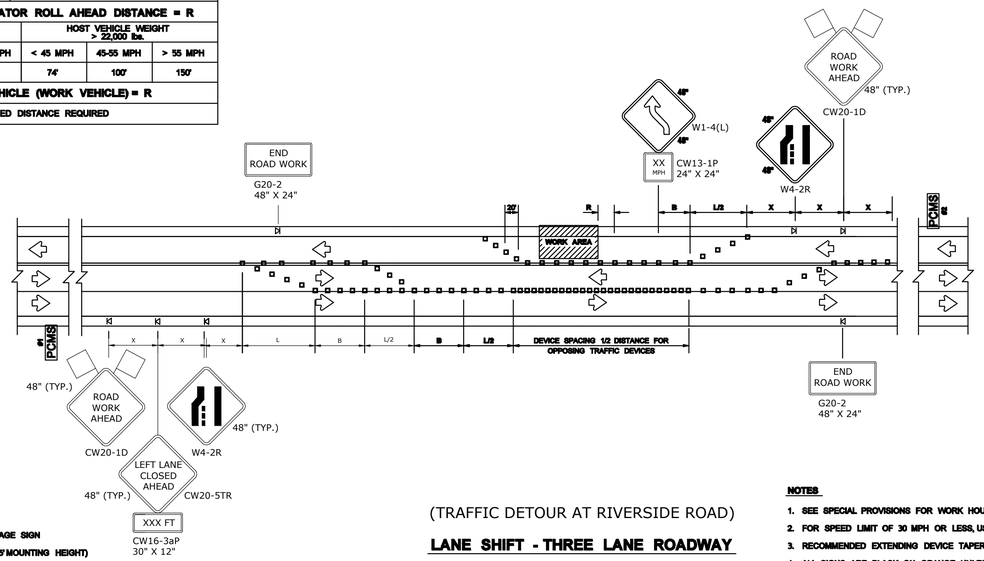
BUFFER DATA						
LONGITUDINAL BUFFER SPACE = B						
SPEED (MPH)	25	30	35			
LENGTH (feet)	155	200	250			
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R						
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.			
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH	
100'	123'	172'	74'	100'	150'	
PROTECTIVE VEHICLE (WORK VEHICLE) = R						
NO SPECIFIED DISTANCE REQUIRED						

SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	300'± (2)
RESIDENTAL & BUSINESS DISTRICTS		

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)				
LANE WIDTH (feet)	Posted Speed (mph)			
	25	30	35	
10	105	150	205	
11	115	165	225	
12	125	180	245	

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/45	30	60
25/30	20	40



PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
1 MILE AHEAD	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

(TRAFFIC DETOUR AT RIVERSIDE ROAD)

LANE SHIFT - THREE LANE ROADWAY

NOT TO SCALE

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
3. RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

PLOT DATE: 12/22/2022 2:46 PM
FILE NAME: P:\CITY OF ATLANTA\2022.COA.OLD ALABAMA RD\7.0 CAD\DWG\SHTS\PHASE II\TRAFFIC CONTROL PLAN\TCP-II DETAILS.DWG

RUBYCOLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025738 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/23/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

REVISIONS		
NO.	DATE	DESCRIPTION
	06/23/2022	30% DESIGN PACKAGE - INITIAL ISSUE
A	08/05/2022	75% DESIGN SUBMITTAL
0	12/23/2022	ISSUED FOR CONSTRUCTION

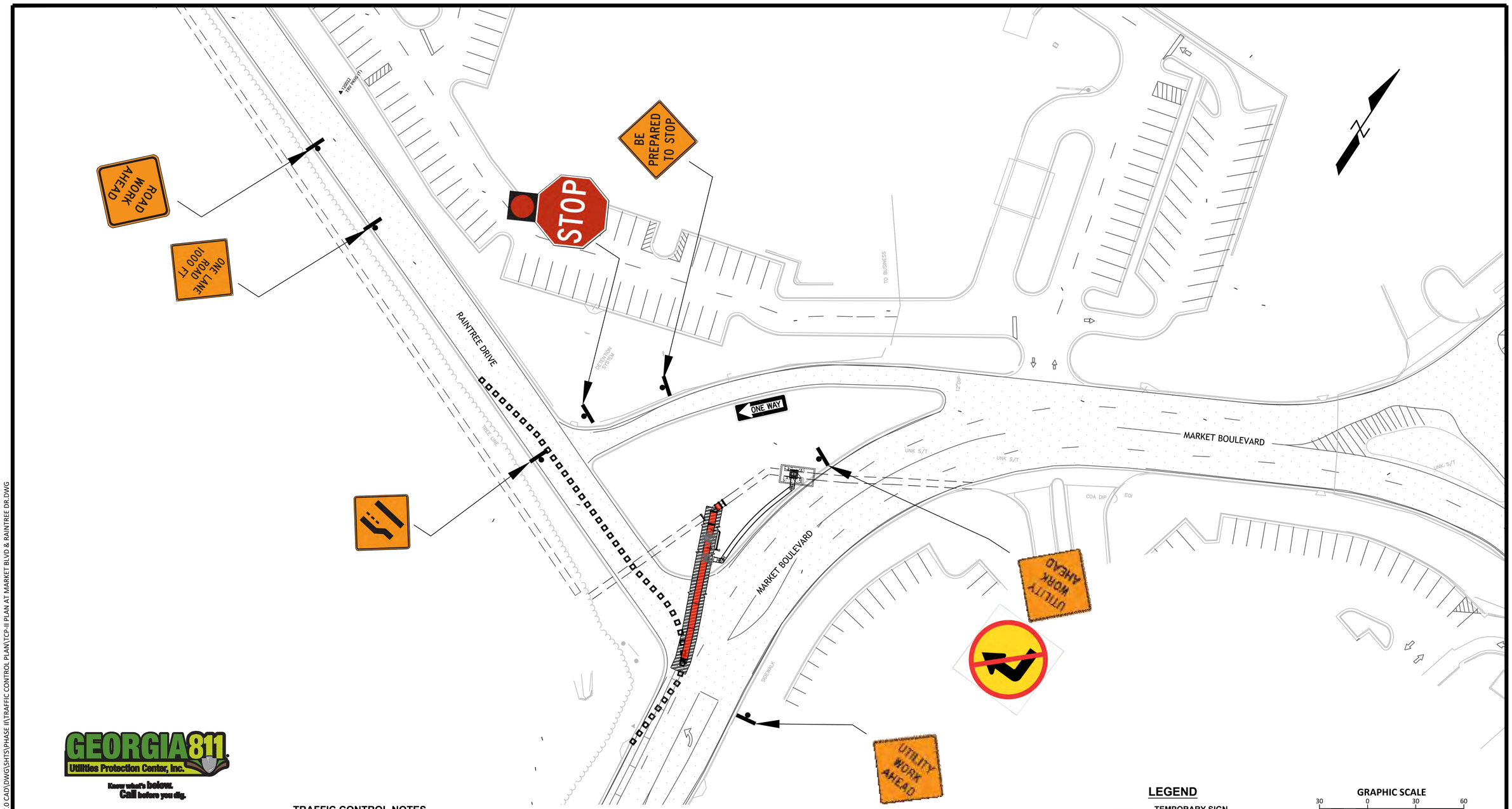
CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
TRAFFIC CONTROL DETAILS

DATE
DECEMBER 23, 2022

ISSUED FOR
CONSTRUCTION

SHEET NUMBER
T 02.03



GEORGIA811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

CAUTION

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE DESIGN TEAM ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC CONTROL NOTES

1. TRAFFIC FLAGGERS SHALL BE USED AS NEEDED.
2. SHALL BE COORDINATED WITH THE CITY OF ROSWELL - TRANSPORTATION DEPARTMENT.
3. ONLY ONE LANE CAN BE BLOCKED ON RAINTREE DRIVE.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC CONTROL CONE
- STAGING AREA

GRAPHIC SCALE
30 0 30 60
1" = 30'
HORIZONTAL

RUBY COLLINS
BENCHMARK MANAGEMENT

DESIGN TEAM	
DESIGN BY	DP
DRAWN BY	JG
CHECKED BY	DP
APPROVED BY	EA
PROJECT INFORMATION	
CLIENT CONTRACT No	

GEORGIA REGISTERED No. PE025728 PROFESSIONAL ENGINEER ESKENDER ABEBE
12/23/2022

OLD ALABAMA ROAD 48-INCH WATER MAIN RELOCATION PHASE II CONNECTION AND BYPASS AT RIVERSIDE RD: STA. 0+00 TO 1+00 AND MARKET BLVD: STA. 52+00 TO STA. 53+00

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0	12/23/2022	ISSUED FOR CONSTRUCTION

CITY OF ATLANTA DEPARTMENT OF watershed management

SHEET NAME
TRAFFIC CONTROL PLAN SHEET 2 OF 2

DATE
DECEMBER 23, 2022
ISSUED FOR
CONSTRUCTION
SHEET NUMBER
T 02.04

PLOT DATE: 12/22/2022 2:47 PM
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