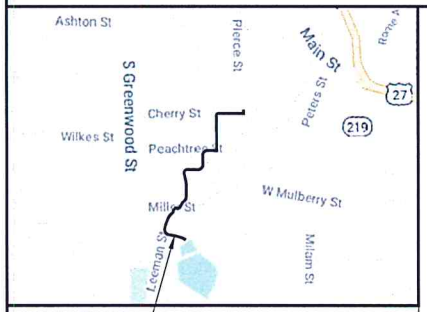
LAGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL

SOUTHBEND PARK TO KEX MILL

CITY OF LaGRANGE, GEORGIA



PROJECT SITE

VICINITY MAP
N.T.S.

LAND LOT: 116 - 6TH DISTRICT

ALL WORK TO BE DONE IN ACCORDANCE WITH:
- 2013 STANDARD SPECIFICATIONS AND 2016 SUPPLEMENTAL SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION
- 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN
- ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY STANDARDS

SURVEY AND COORDINATE DATA

HORIZ. DATUM - GA. STATE PLANE COORDINATE SYSTEM
VERT. DATUM - NAVD 1988
COORDINATE ZONE - GEORGIA WEST
PROJECT UNITS - ENGLISH

PROJECT DESCRIPTION

THE PROJECT FALLS WITHIN LAND LOT 116 IN DISTRICT 6.
THIS PROJECT WILL NOT REQUIRE ANY ZONING BUFFERS.
THIS IS A TRAIL PROJECT WHICH IS BEING BUILT ON CITY EASEMENT AND CITY PROPERTY - THEREFORE THE PROPOSED USE OF THE PROJECT IS CONSISTENT WITH ZONING.
THE LIMITS OF DISTURBANCE IS APPROXIMATELY 1.5 ACRES, NO DISTURBANCE IS PROPOSED WITHIN THE STATE 25' STREAM BUFFER SETBACK.

NARRATIVE

THIS PROJECT IS A SIDE PATH AND GREENWAY TRAIL RUNNING THROUGH CITY EASEMENTS/RIGHT-OF-WAY. THE TRAIL BEGINS AT THE INTERSECTION OF CHERRY ST AND PIERCE STREET AT SOUTHBEND PARK AND TERMINATES EAST OF LEEMAN ST ON THE KEX MILL PROPERTY.

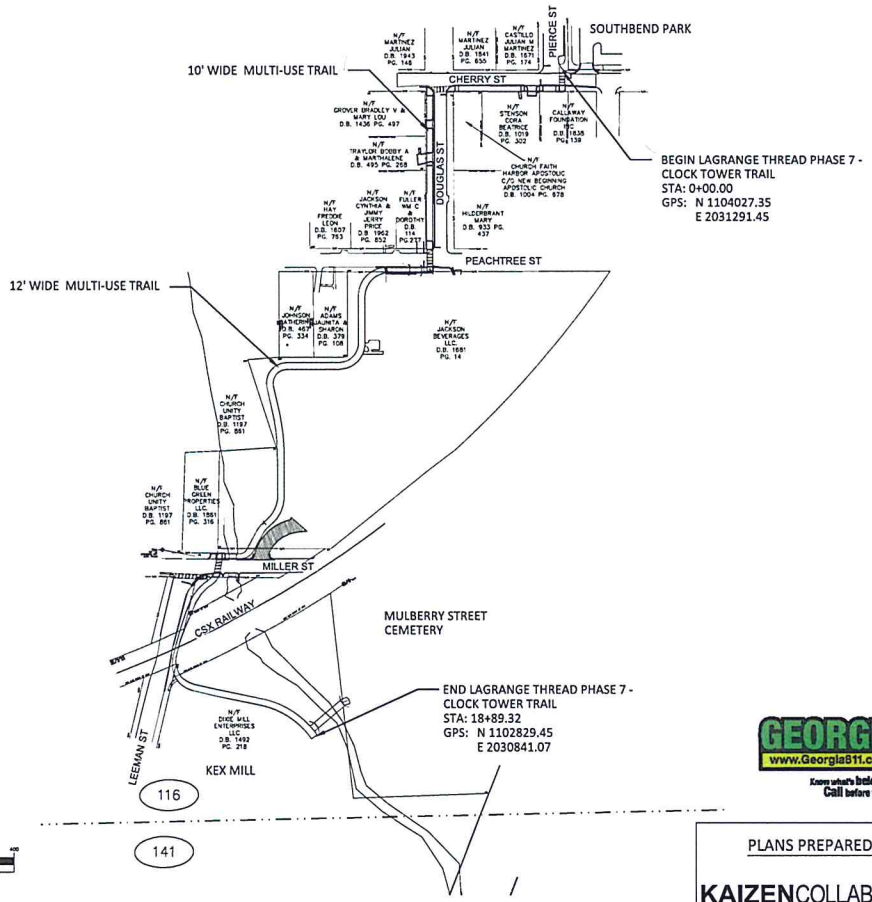
THE PROJECT SCOPE INCLUDES APPROXIMATELY 1890 LF OF CONCRETE TRAIL, TRAIL AMENITIES, & SIGNAGE. ADDITIONAL WORK ASSOCIATED WITH THE PROJECT INCLUDES MINOR DEMOLITION AND CLEARING, EROSION CONTROL AND GRADING.

OWNER/DEVELOPER (PRIMARY PERMITTEE)

CITY OF LAGRANGE
MEG KELSEY, CITY MANAGER
200 RIDLEY AVENUE
LAGRANGE, GA 30240
706-883-2016

CONSTRUCTION MANAGEMENT

PATH FOUNDATION
JONATHAN McCAIG - 24 HOUR CONTACT
GA GSWCC LEVEL 1 CERTIFICATION # 58893
EXP. 08/17/2021
office 404-875-7284 x5 cell 404-433-1900



GRAPHIC SCALE
(IN FEET)
1 inch = 100 feet

GEORGIA811
www.Georgia811.com
Know what's below. Call before you dig.

ENGINEER'S CERTIFICATION STATEMENT:

With my initials at the line above and my seal and signature below, I Charles M. Abbott, a professional **Engineer,** licensed in the **State of Georgia,** hereby certify that I have personally reviewed the attached submittal plans for a land disturbance permit. In my opinion these submittal plans meet all applicable regulations and ordinances of the City of LaGrange and other affected parties may rely on this certification.

Signed: Charles M. Abbott **Georgia Registration #** NO. 31674

Date: NOVEMBER 13, 2020

GROSS LENGTH OF PROJECT: 1890 LF
MAINLINE TRAIL: 1890 LF

TOTAL SITE AREA = 1.08 ACRE
DISTURBED AREA = 1.50 ACRE

PLANS PREPARED BY:

KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE CARROLLTON, GA. 30117
OFFICE (770) 834-4634 FAX (770) 834-1005
E-MAIL: mailbox@georgiaandwest.com

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 534 JOHN D. BASS

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31674 CHARLES M. ABBOTT 11/13/2020

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT
1	1/8/2021	ADDENDUM #1

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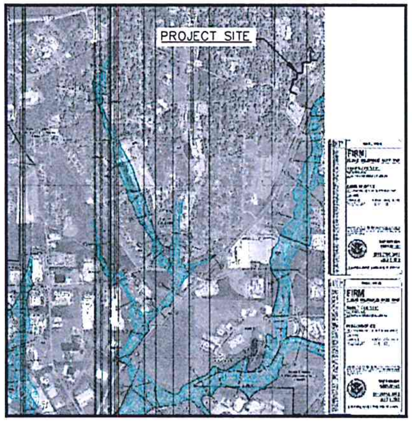
LAGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
KAIZEN PROJECT # 2019-191
11/13/2020 -100% ISSUE FOR PERMIT



NOTE: NONE OF THE DISTURBED AREA IS WITHIN THE FEMA 100 YEAR FLOOD HAZARD ZONE.

SITE DATA

TOTAL SITE AREA = 1.08 ACRE
DISTURBED AREA = 1.50 ACRE

NPDES FEE = $120 ($80/ACRE)
STATE AMOUNT = $120 ($80/ACRE)

LAND LOTS: 116 - DISTRICT 6

CONTACTS

24-HOUR CONTACTS:

PATH FOUNDATION
JONATHAN McCAIG - 24 HOUR CONTACT
GA GSWCC LEVEL 1 CERTIFICATION # 58893
EXP. 08/17/2021
office 404-875-7284 x5 cell 404-433-1900

EROSION & SEDIMENT CONTROL

1. 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 DISTURBANCE ACTIVITIES.

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

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

4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.

5. EROSION AND SEDIMENT MEASURES AND PRACTICES TO BE INSPECTED DAILY.

6. ALL INSPECTION, MONITORING, AND REPORTING SHALL BE PERFORMED AS REQUIRED BY NPDES PERMIT AND BY PROJECT EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS SHOWN HEREON WITH THE CONSTRUCTION DRAWINGS AND EXISTING BUILDINGS PRIOR TO ANY CONSTRUCTION AND SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

2. PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT FINAL GRADE. PROPOSED GRADE ELEVATIONS SHOWN WITHIN PAVED AREA REPRESENT TOP OF PAVEMENT ELEVATIONS. CONTRACTOR SHALL ALLOW FOR PAVEMENT THICKNESS, TOPSOIL, BASE COURSE, SLABS, ETC. WHEN GRADING TO SUBGRADE ELEVATIONS.

3. DIMENSIONS ARE TO BACK OF CURB, CENTER OF STRUCTURE AND CENTER LINE OF COLUMN LINE, UNLESS OTHERWISE NOTED. ANGLES SHOWN ON STORM AND SANITARY SEWER ARE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED.

4. **CALL BEFORE YOU DIG 811.** THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION. IF UNCHARTED UTILITIES ARE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IMMEDIATELY FOR INSTRUCTIONS. ANY DAMAGE OR INTERRUPTION OF EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY AT THE CONTRACTOR'S EXPENSE.

5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED DISTURBANCE SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE DRAWINGS WITHOUT APPROVAL IN WRITING FROM THE PROJECT LANDSCAPE ARCHITECT.

6. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES, LIGHTS, WARNING SIGNS, AND OTHER TRAFFIC CONTROL METHODS ADJACENT TO EXISTING ROADWAYS AND PARKING AREAS AS MAY BE REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRAFFIC CONTROL MEASURES UTILIZED WITHIN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL CONSTRUCTION ELEMENTS, WITH SOME FIELD ADJUSTMENTS AS NECESSARY BY THE LANDSCAPE ARCHITECT. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT TRAIL AND AMENITY CONSTRUCTION COMPLIES WITH AASHTO REQUIREMENTS, PARTICULARLY WITH RESPECT TO TRAIL CROSS-SLOPES AND GRADIENTS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT GROUNDWATER CONTROL DURING CONSTRUCTION, AS WELL AS PROVISIONS FOR CONTROLLING SURFACE WATER RUN-OFF, IN ORDER TO PREVENT PONDING IN OPEN EXCAVATIONS AND POTENTIAL UNDERMINING OF PERMANENT CONSTRUCTION FEATURES.

9. EARTHWORK OPERATIONS AND SOIL COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DRAWINGS. PRIOR TO POURING CONCRETE, EARTHWORK SHALL BE CLEAR OF DEBRIS AND MACHINE COMPACTED. CONSTRUCTION ACTIVITIES SHALL BE MONITORED BY A GEOTECHNICAL CONSULTING FIRM APPROVED BY THE OWNER TO VERIFY THAT EARTHWORK, WALL CONSTRUCTION, AND OTHER OPERATIONS CONFORM WITH THE CONTRACT DOCUMENTS. GEOTECHNICAL SERVICES SHALL BE AT THE COST OF THE CONTRACTOR.

10. THE TOPOGRAPHIC SURVEY INFORMATION HAS BEEN PROVIDED BY GEORGIA AND WEST INC., (770) 834-4694, AND IS REFERENCED TO THE GEORGIA STATE PLANE COORDINATE SYSTEM (WEST ZONE).

11. DEMOLITION DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR AND WASTE SOILS, VEGETATION, AND OTHER DELETERIOUS MATERIALS SHALL BE HAULED OFF-SITE AND BE DISPOSED OF AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BURNING WILL NOT BE ALLOWED ON THIS PROJECT.

12. EROSION CONTROL MEASURES AND OTHER SITE ISSUES SHALL BE INSPECTED AND MAINTAINED BY CONTRACTOR THROUGHOUT CONSTRUCTION.

13. ON ALL AREAS WHERE ROADWAYS, CONCRETE TRAILS, RETAINING WALLS, OR OTHER STRUCTURES ARE TO BE CONSTRUCTED ON COMPACTED SUBGRADE, FOUNDATION SOILS SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL CONSULTING FIRM PRIOR TO THE PLACEMENT OF CONCRETE, AGGREGATE BASE, OR FILL MATERIALS.

14. CONSTRUCTION ACCESS POINTS ARE APPROXIMATE LOCATIONS AND MUST BE FIELD VERIFIED AND APPROVED BY CITY OF LAGRANGE.

15. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2013 STANDARD SPECIFICATIONS AND THE 2016 SUPPLEMENTAL SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION, THE 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, THE ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY STANDARDS, AND AS MODIFIED BY CONTRACT DOCUMENTS.

16. ALL CONCRETE TO BE USED FOR THE CONSTRUCTION OF TRAILS TO BE CLASS 'A' CONCRETE.

17. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH TROUP COUNTY. CITY OF LAGRANGE , GEORGIA AND WEST INC., PATH FOUNDATION, AND KAIZEN COLLABORATIVE PRIOR TO BEGINNING CONSTRUCTION.

18. NOTICE: IT IS THE OWNER'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

19. CONTRACTOR TO CONTACT KAIZEN COLLABORATIVE FOR ALL CONSTRUCTION STAKING CAD DATA.

TRAIL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM GRADES ALONG THE TRAIL. TRAIL LONGITUDINAL GRADES SHALL NOT EXCEED 5% PERCENT (EXEMPTION WHEN TRAIL FOLLOWS ROAD GRADE), WITH SHORT 200 FT MAXIMUM LENGTH AREAS OF UP TO 8.33% GRADE ALLOWED. (REF: GDOT PEDESTRIAN AND STREETSCAPE GUIDE, PAGE 83). TRAIL CROSS SLOPE SHALL BE MINIMUM 1%, MAXIMUM 2%.

2. THE LAYOUT OF THE TRAIL IS SHOWN IN RELATION TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LAYOUT WITH OWNER PRIOR TO CONSTRUCTION OF TRAIL.

3. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL UNDERSTORY VEGETATION WITHIN 10' FROM CENTERLINE OF TRAIL. CLEARING AREA MAY INCREASE WHERE INVASIVE PLANTS ARE LOCATED. CONTRACTOR SHALL CONFIRM VEGETATION TO BE CLEARED WITH LANDSCAPE ARCHITECT AND PROJECT ENGINEER PRIOR TO CLEARING.

4. ALL SIGNING & MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

5. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND MEET GDOT SPECIFICATIONS UNLESS SPECIFIED OTHERWISE BY CITY. TRAIL & PARKING LOT PAVEMENT MARKINGS TO BE PAINT, UNLESS SPECIFIED OTHERWISE BY CITY.

CONSTRUCTION NOTES

1. TRAIL BACKFILL DIRT SHALL BE CLEAN, COHESIVE CLAY OR SANDY CLAY FREE OF DEBRIS, ORGANICS, DELETERIOUS MATERIAL AND ROCKS GREATER THAN 3" DIAMETER.

2. DESIRABLE GRADED SLOPES ARE TO BE 3:1 (H:V) OR FLATTER. MAX CUT OR FILL SLOPES SHALL BE 2:1 (H:V), UNLESS SPECIFICALLY NOTED.

3. EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED BY THE OWNER. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN. TREE SAVE AREAS SHALL NOT BE USED FOR STORAGE OR PARKING. EQUIPMENT AND MATERIAL SHALL NOT BE STORED WITHIN THE DRIP LINE OF TREES.

4. CONTRACTOR TO VERIFY THE ELEVATIONS OF ALL TIE-IN POINTS FOR INSTALLATION OF UTILITIES, CURB & GUTTER AND PAVING.

5. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE OPTIMUM COMPACTION FOR ANY SOIL CLASSIFICATION AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-180 METHOD "A". THE TOP 2 FEET OF ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE CLEAN AND FREE OF ROOTS, ROCK OR DELETERIOUS MATTER. CONTRACTOR SHALL CORRECT ANY DAMAGE TO CURBING OR PAVING CAUSED BY TRENCH SETTLEMENT WHICH OCCURS WITHIN 12 MONTHS OF PROJECT ACCEPTANCE.

6. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PROMPTLY UPON DISCOVERY.

7. ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, AND VALVE BOXES, WHICH ARE TO REMAIN SHALL BE SET FLUSH WITH THE TOP OF THE PROPOSED GRADE.

8. AREAS INTENDED TO SUPPORT PAVEMENT OR NEW FILL SHALL BE PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER TO LOCATE WEAK, SOFT OR EXCESSIVELY WET MATERIALS. AREAS WHICH PUMP WHILE PROOF ROLLED SHALL BE UNDERCUT AND BACK-FILLED AS DIRECTED BY GEOTECHNICAL ENGINEER.

9. CRUSHED STONE AGGREGATE IN PAVEMENT BASE SHALL CONFORM WITH SECTION 815 OF THE STATE OF GEORGIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. ALL ASPHALT MATERIAL AND PAVING OPERATIONS SHALL MEET APPLICABLE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.

10. ALL FILL AREAS MUST BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR. THE TOP 2 FEET OF ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY. A REPORT FROM A GEOTECHNICAL ENGINEER WILL BE REQUIRED FOR ALL FILL AREAS WITHIN THE RIGHT-OF-WAY.

11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS DISTURBED AREA AND INTO DRAINAGE FEATURES.

CONSTRUCTION LEGEND

- PROPOSED TRAIL AND CENTERLINE
- PROPOSED STRUCTURAL SLAB BRIDGE CROSSINGS
- PROPOSED CROSSWALK
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED FENCELINE
- EXISTING FENCELINE
- PROPOSED DEMOLITION ITEM
- EXISTING CONTOUR ELEVATION
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING GRAVEL DRIVE
- PROPOSED PIPE AND CULVERT
- PROPOSED BOLLARDS
- EXISTING SPOT ELEVATION
- SHEET MATCHLINE
- PROPERTY LINE
- LAND LOT LINE

LEGEND

1033 CATCH BASIN
1034 CATCH BASIN
1019A DROP INLET
1011A JUNCTION BOX
1019A TYPE E CURB INLET
1125 HEADWALL
DRAINAGE SLOPE
SEWER MANHOLE
EXISTING FIRE HYDRANT
PROPOSED FIRE HYDRANT
LAMP POST
GUY POLE
UTILITY POLE

WATER VALVE
GAS VALVE
HANDICAPPED PARKING
TRAFFIC FLOW
UNDERGROUND POWER
OVERHEAD POWER
UNDERGROUND CABLE
OVERHEAD TELEPHONE
FIBER OPTIC CABLE
WATER
SANITARY SEWER
FORCE MAIN
GAS
STORM DRAIN

SILT FENCE
TREE PROTECTION FENCE
CHAIN LINK FENCE
EXISTING FENCE
EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING CURB & GUTTER
PROPOSED CURB & GUTTER
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION

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105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-4694 FAX (770) 834-1005
E-MAIL: mailbox@georgiaandwest.com

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034691 JOHN D. BASS
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 21874 CHARLES M. ABBOTT 11/13/2020

GENERAL NOTES

SCALE	
DATE	NOVEMBER 13, 2020
SHEET #	GN-01

TREE LEGEND

MA=maple	O=oak	WA=walnut	SO=sweetgum	CH=cherry	HK=hackberry
PC=pecan	MT=mulberry	BH=beech	PI=pine	PO=poplar	SW=sourwood
GI=gum	SM=sycamore	BS=basswood	CW=cedar	HB=hackberry	CW=cottonwood
UK=unknown	DW=dogwood	PE=pear	BI=birch	MO=magnolia	BG=black gum

LEGEND

1033 CATCH BASIN	OVERGROUND DOWNSPOUT	SEDIMENT BARRIER
1034 CATCH BASIN	WATER VALVE	TREE PROTECTION FENCE
1018A DROP INLET	GAS VALVE	CHAIN LINK FENCE
1011A JUNCTION BOX	HANDICAPPED PARKING	EXISTING FENCE
1018A TYPE E CURB INLET	TRAFFIC FLOW	PROPERTY LINE
1135 HEADWALL	UNDERGROUND POWER	EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE	EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE	PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	EXISTING SPOT ELEVATION
LIGHT POST	SANITARY SEWER	PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN	EXISTING WATER METER
UTILITY POLE	GAS	IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN	MAILBOX
		GAS METER
		POWER METER

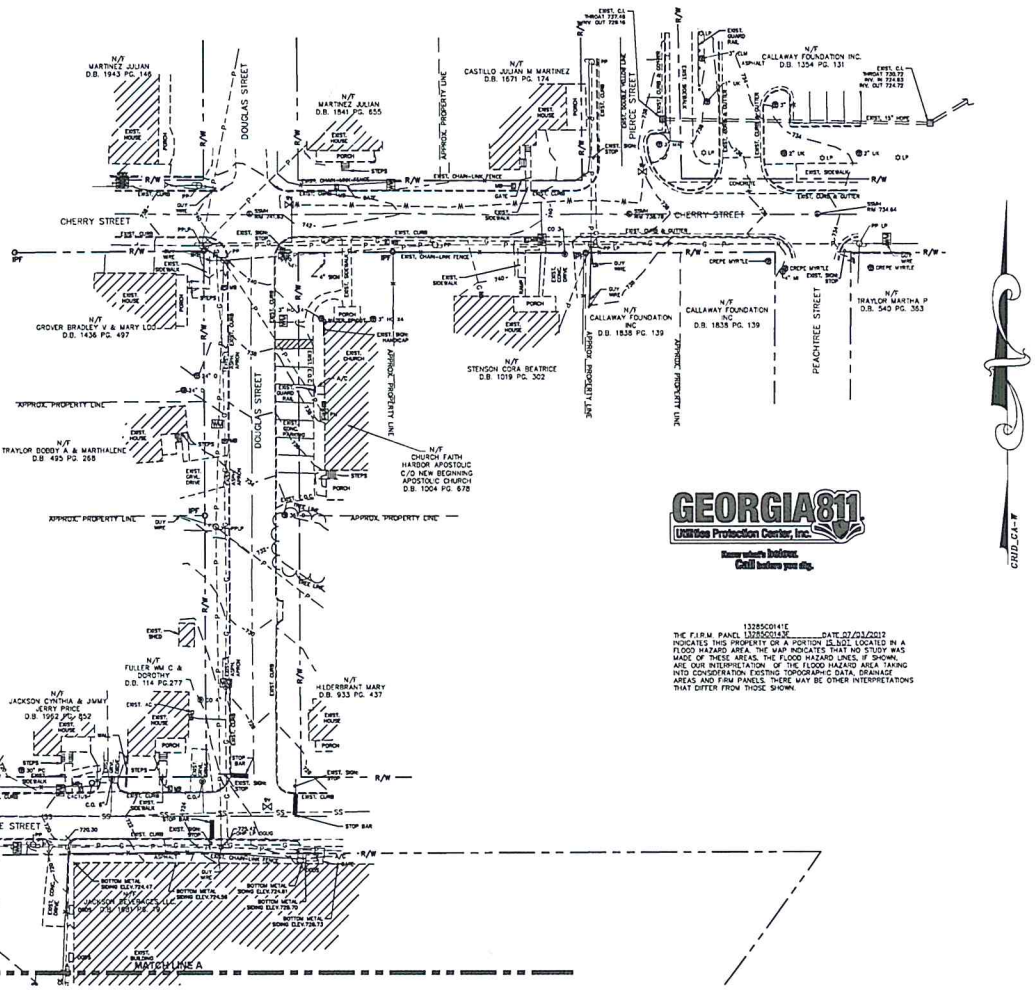
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTE:
ALL UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATIONS OBTAINED FROM UTILITIES PROTECTION CENTER, INC. BEWARE OF UNDERGROUND UTILITIES NOT SHOWN.

TREES 24" IN DIAMETER & LARGER IDENTIFIED WITHIN THE SURVEY CORRIDOR WHERE OUTSIDE OF ROAD RIGHT-OF-WAY. TREES 4" IN DIAMETER & LARGER IDENTIFIED WITHIN SURVEY CORRIDOR INSIDE ROAD RIGHTS OF WAY.



13285C0141E
THE F.I.R.M. PANEL 13285C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND F.I.R.M PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

NO.	DATE REVISED	DESCRIPTION
	06-30-20	ADDITIONAL SURVEY IN EXPANDED PROJECT AREA

GEORGIA REGISTERED No. 3125 LAND SURVEYOR CERTIFIED

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-4664
FAX (770) 834-1005
E-MAIL: mail@georgiaandwest.com

WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

NOTICE: IT IS THE PROPERTY OWNER'S/CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

TITLE:
TOPOGRAPHIC SURVEY
LAGRANGE THREAD CLOCK TOWER

LOCATED IN LAND LOTS 116 DISTRICT 6
TROUP COUNTY, GEORGIA

SCALE	DATE	JOB NUMBER	DESIGNED BY
1" = 30'	02-14-2020	17-208	

O:\PROJECT FOLDERS\2017\17-208_LAGRANGE THREAD CLOCK TOWER\DWG\17-208_BASE MAP.dwg 11/13/2020 3:33:54 PM

TREE LEGEND

MA=maple	O=oak	WA=walnut	SG=sweetgum	CH=cherry	HK=hackberry
PC=pecan	SM=sycamore	BH=beech	PI=pine	PO=poplar	SW=southwood
GI=gum	BE=hornbeam	BE=boxelder	C=cedar	HP=hackberry	CW=southwood
YA=yellow poplar	DW=dogwood	PE=pear	BI=birch	MG=magnolia	BG=black gum

LEGEND

- 1033 CATCH BASIN
- 1034 CATCH BASIN
- 1018A DROP INLET
- 1011A JUNCTION BOX
- 1015A TYPE E CURB INLET
- 1125 HEADWALL
- DRAINAGE SLOPE
- SEWER MANHOLE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- LAMP POST
- GUY POLE
- UTILITY POLE
- UNDERGROUND DOWNSPOUT
- OVERGROUND DOWNSPOUT
- WATER VALVE
- GAS VALVE
- HANDICAPPED PARKING
- TRAFFIC FLOW
- UNDERGROUND POWER
- OVERHEAD POWER
- UNDERGROUND TELEPHONE
- OVERHEAD TELEPHONE
- WATER
- SANITARY SEWER
- FORCE MAIN
- GAS
- STORM DRAIN
- SEDIMENT BARRIER
- TREE PROTECTION FENCE
- CHAIN LINK FENCE
- EXISTING FENCE
- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING WATER METER
- IRRIGATION CONTROL VALVE
- MAILBOX
- GAS METER
- POWER METER

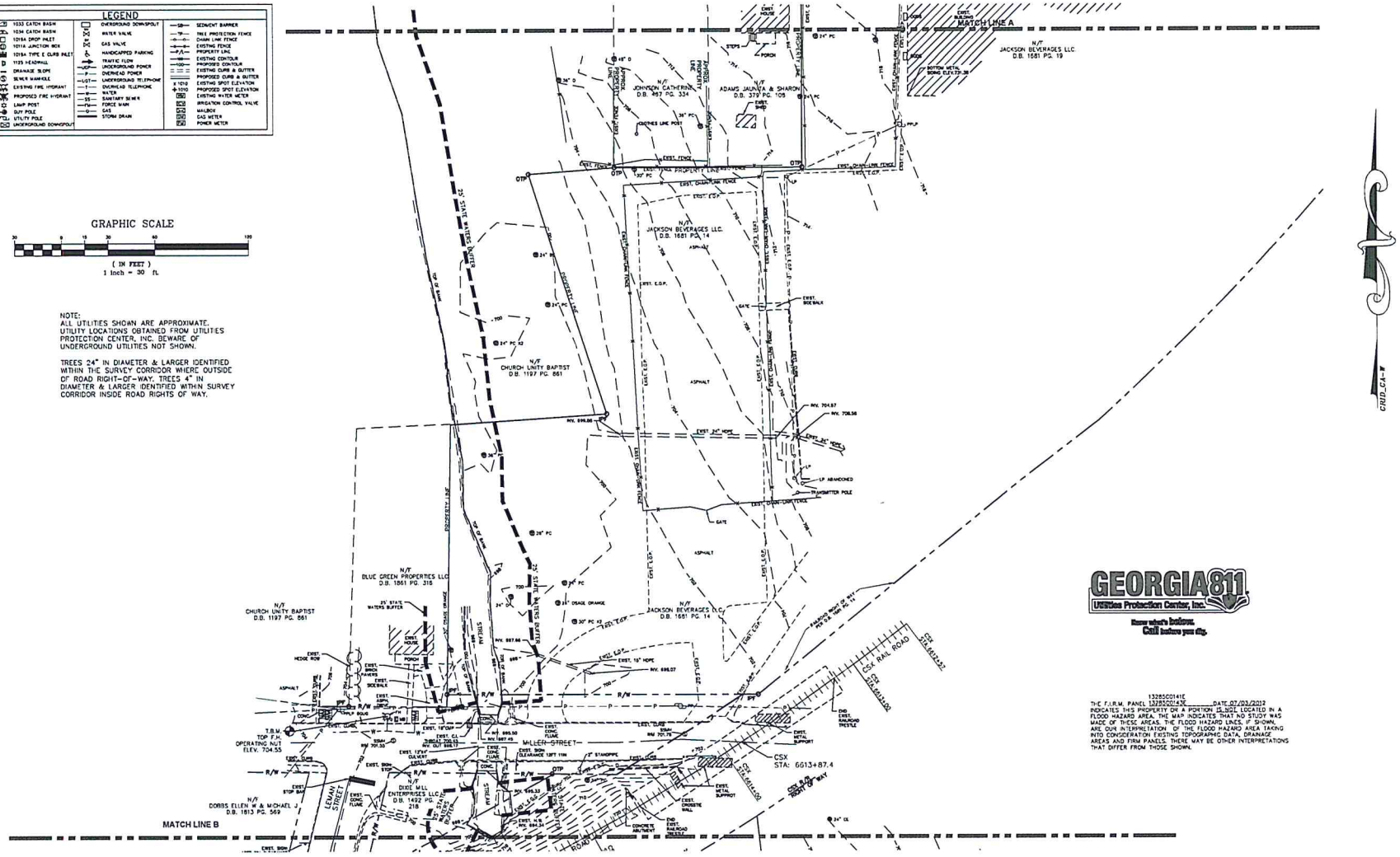
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTE:
ALL UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATIONS OBTAINED FROM UTILITIES PROTECTION CENTER, INC. BEWARE OF UNDERGROUND UTILITIES NOT SHOWN.

TREES 24" IN DIAMETER & LARGER IDENTIFIED WITHIN THE SURVEY CORRIDOR WHERE OUTSIDE OF ROAD RIGHT-OF-WAY. TREES 4" IN DIAMETER & LARGER IDENTIFIED WITHIN SURVEY CORRIDOR INSIDE ROAD RIGHTS OF WAY.



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

13285C0141E
THE F.I.R.M. PANEL 13285C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

NO	DATE REVISED	DESCRIPTION
	06-30-20	ADDITIONAL SURVEY IN EXPANDED PROJECT AREA
	03-06-20	REVISIONS PER CITY

GEORGIA CERTIFICATE OF AUTHORIZATION No. 3125

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA. 30117
OFFICE (770) 834-4694
FAX (770) 834-1005
E-MAIL: mailbox@georgiaandwest.com

WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

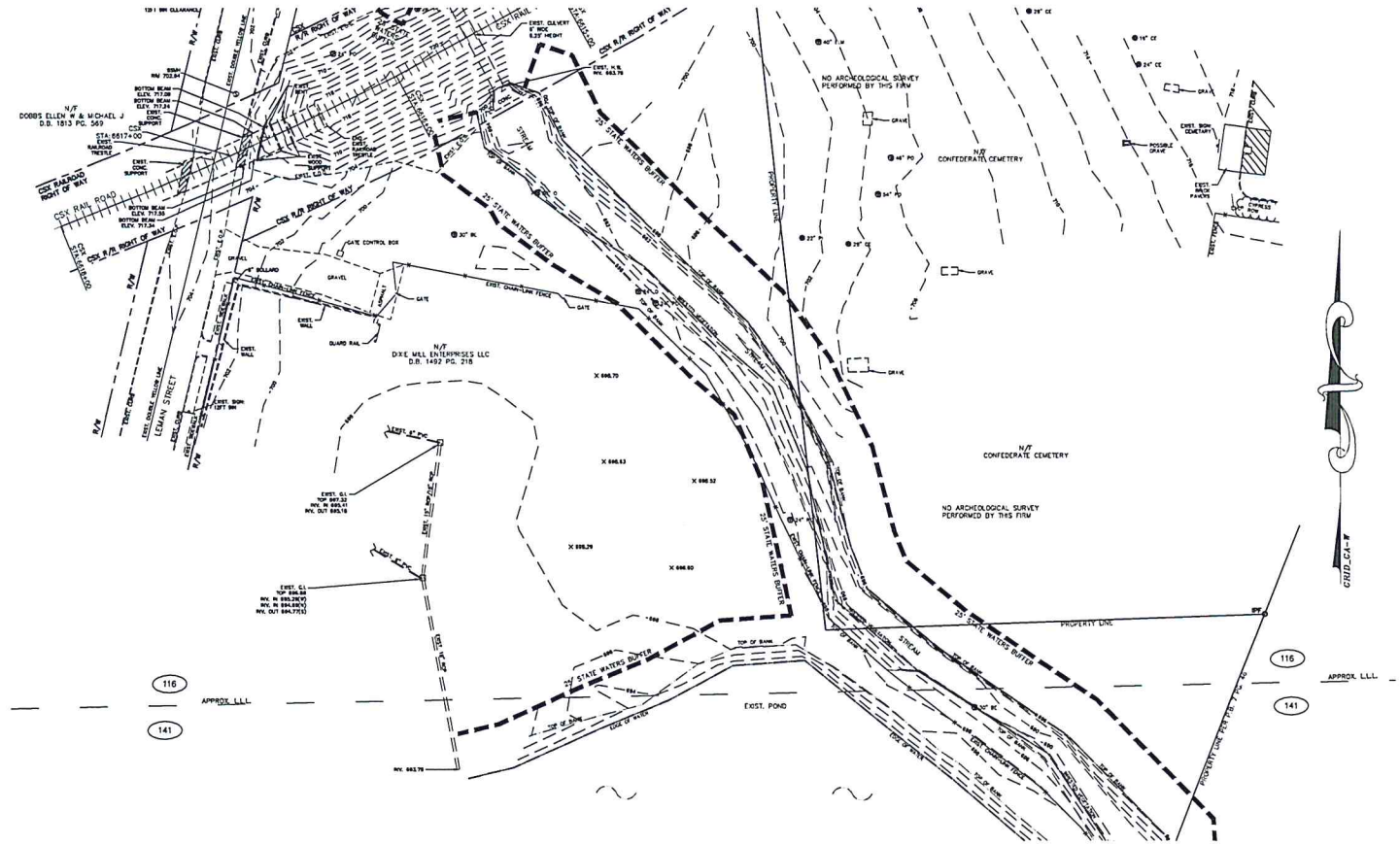
NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

TITLE:
TOPOGRAPHIC SURVEY
LAGRANGE THREAD CLOCK TOWER
LOCATED IN LAND LOTS 116 DISTRICT 6
TROUP COUNTY, GEORGIA

SCALE	DATE	JOB NUMBER	DESIGNED BY
1" = 30'	02-14-2020	19T208	

S-02

O:\PROJECT FOLDER\2019\19T208_LAGRANGE THREAD CLOCK TOWER\DWG\19T208_BASEMAP.dwg 10/15/2020 3:33:13 PM



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTE:
ALL UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATIONS OBTAINED FROM UTILITIES PROTECTION CENTER, INC. BEWARE OF UNDERGROUND UTILITIES NOT SHOWN.

TREES 24" IN DIAMETER & LARGER IDENTIFIED WITHIN THE SURVEY CORRIDOR WHERE OUTSIDE OF ROAD RIGHT-OF-WAY. TREES 4" IN DIAMETER & LARGER IDENTIFIED WITHIN SURVEY CORRIDOR INSIDE ROAD RIGHTS OF WAY.

GEORGIA811
Utilities Protection Center, Inc.
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13285C0141E
THE F.I.R.M. PANEL 13285C0141K DATE 07/03/2012
INDICATES THIS PROPERTY OR A PORTION IS NOT LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

TREE LEGEND

MA=maple	O=oak	WA=walnut	SO=sweetgum	CH=cherry	HK=hickory
PC=pecan	MI=mimosa	BH=beech	PI=pine	PO=poplar	SW=sourwood
Q=quaky	SM=sycamore	BO=boxelder	L=cedar	HH=hackberry	CW=cottonwood
FK=oak hardwood	DW=dogwood	PE=pear	BI=birch	MO=magnolia	BG=black gum

LEGEND

1033 CATCH BASIN	OVERHEAD DOWNSPOUT	SB	SEDIMENT BARRIER
1034 CATCH BASIN	WATER VALVE	TP	TREE PROTECTION FENCE
1016A DROP INLET	GAS VALVE	CL	CHAIN LINK FENCE
1011A JUNCTION BOX	HANDICAPPED PARKING		EXISTING FENCE
1018A TYPE E CURB INLET	TRAFFIC FLOW	PL	PROPERTY LINE
1125 HEADWALL	UNDERGROUND POWER	100	EXISTING CONTOUR
DRAINAGE SLOPE	OVERHEAD POWER	100	PROPOSED CONTOUR
SEWER MANHOLE	UNDERGROUND TELEPHONE		EXISTING CURB & GUTTER
EXISTING FIRE HYDRANT	OVERHEAD TELEPHONE		PROPOSED CURB & GUTTER
PROPOSED FIRE HYDRANT	WATER	1010	EXISTING SPOT ELEVATION
LAMP POST	SANITARY SEWER	1010	PROPOSED SPOT ELEVATION
GUY POLE	FORCE MAIN		EXISTING WATER METER
UTILITY POLE	GAS		IRRIGATION CONTROL VALVE
UNDERGROUND DOWNSPOUT	STORM DRAIN		MAILBOX
			GAS METER
			POWER METER

NO.	DATE REVISED	DESCRIPTION
	06-30-20	ADDITIONAL SURVEY IN EXPANDED PROJECT AREA
	03-06-20	REVISIONS PER CITY

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-4694
FAX (770) 834-1005
E-MAIL: mabbott@georgiaandwest.com

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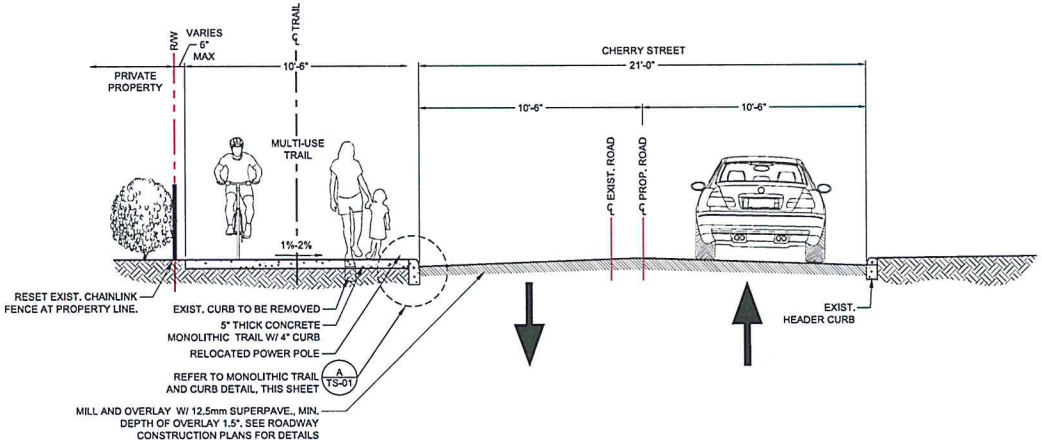
TITLE:
TOPOGRAPHIC SURVEY
LAGRANGE THREAD
CLOCK TOWER
LOCATED IN LAND LOTS 116 DISTRICT 6
TROUP COUNTY, GEORGIA

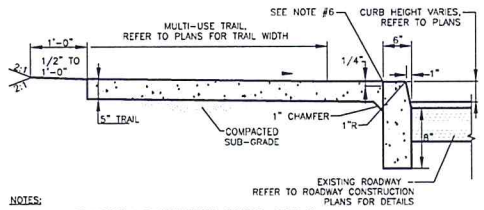
SCALE: 1" = 30'
DATE: 02-14-2020
JOB NUMBER: 191308
DESIGNED BY:

S-03

O:\PROJECT FOLDERS\2019\191308_LAGRANGE THREAD-CLOCK TOWER\CW3\191308_BASEMAP.dwg, 11/13/2020 3:32:23 PM



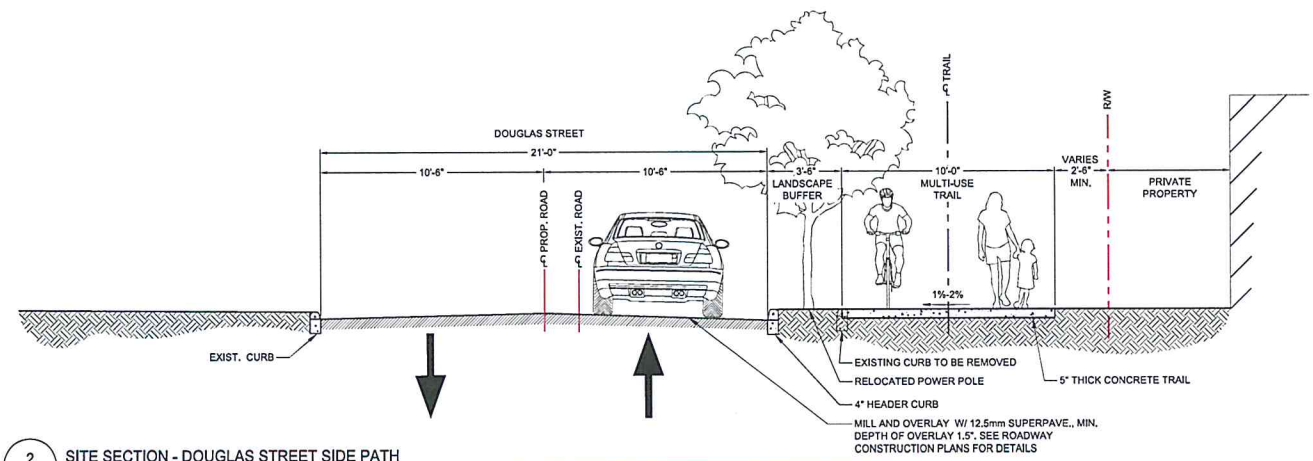
1 / TS-01 SITE SECTION - CHERRY STREET SIDE PATH
SCALE: 3/8" = 1'-0"



NOTES:

1. TRAIL SHALL BE SCRIBED WITH TRANSVERSE CONTROL JOINTS IN SQUARES EQUAL TO SIDEWALK WIDTH. CONCRETE SHALL BE 3,000 P.S.I. MIN. STRENGTH.
2. EXPANSION JOINTS SHALL EXTEND ACROSS THE FULL WIDTH OF THE
3. TRAIL. CONTROL JOINTS SHALL BE LOCATED ON EACH SIDE OF A DRIVEWAY APRON AND NOT MORE THAN 100 FEET APART. PREFORMED BITUMINOUS MATERIAL SHALL BE PLACED BETWEEN ALL
4. FIXED OBJECTS AND THE NEW CONCRETE TRAIL. ALL CONCRETE WORK SHALL BE PER GDOT STANDARD
5. SPECIFICATIONS FOR CONSTRUCTION. 1/4 INCH TOOLED JOINT BETWEEN CURB AND TRAIL.
6. NEITHER WIRE MESH NOR REBAR CAN BE USED IN THE R/W.

A / TS-01 MONOLITHIC TRAIL AND CURB
N.T.S



2 / TS-01 SITE SECTION - DOUGLAS STREET SIDE PATH
SCALE: 3/8" = 1'-0"

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2350 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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133 CORPORATE DRIVE
CARTERSVILLE, GA 30120
OFFICE (770) 386-0204 FAX
(770) 386-0205
E-MAIL: mail@georgiawest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

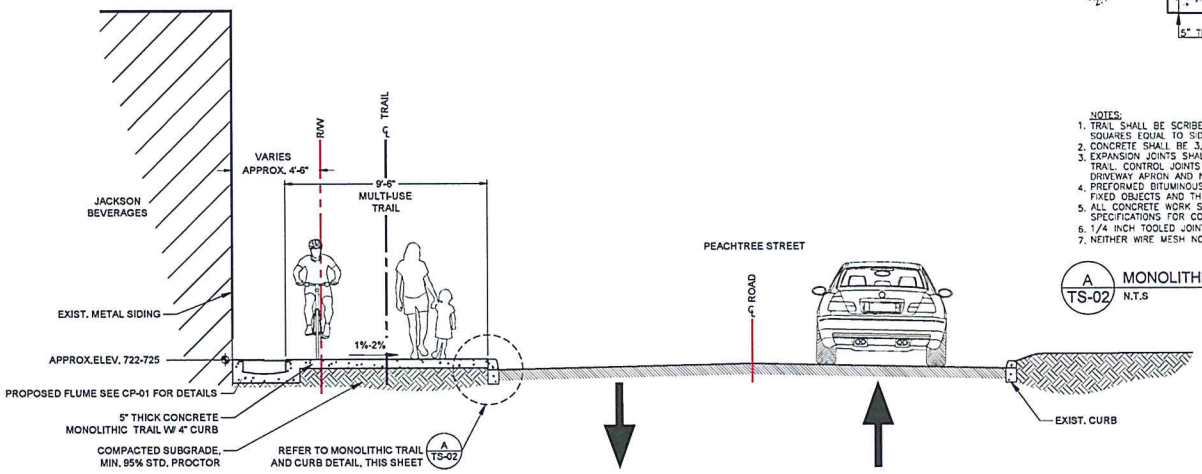
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034891 JOHN D. BASS

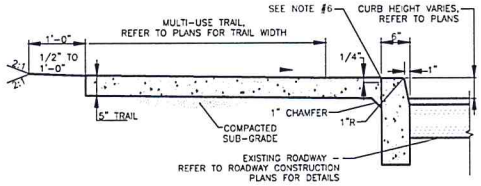
GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 316174 CHRIS M. ABBOTT
11/13/2020

TYPICAL SECTION

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	TS-01

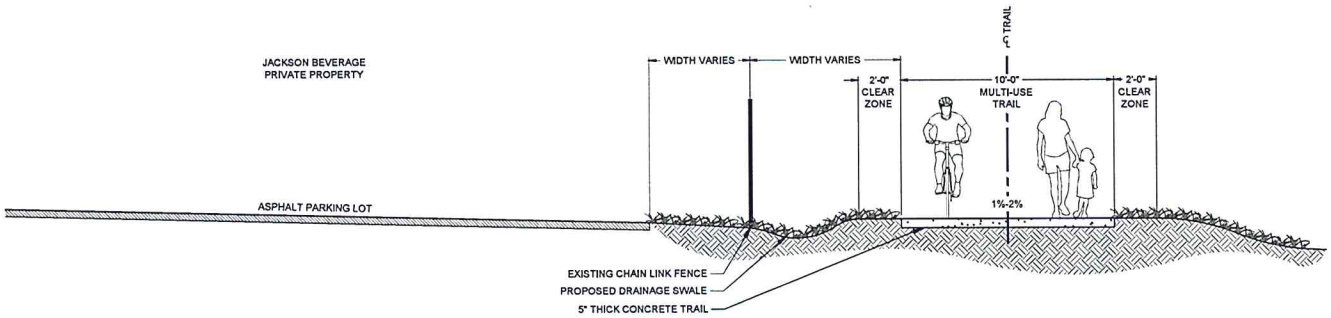


1 TS-02 SITE SECTION - PEACHTREE STREET SIDE PATH
SCALE: 3/8" = 1'-0"



NOTES:
1. TRAIL SHALL BE SCRIBED WITH TRANSVERSE CONTROL JOINTS IN SQUARES EQUAL TO SIDEWALK WIDTH.
2. CONCRETE SHALL BE 3,000 P.S.I. MIN. STRENGTH.
3. EXPANSION JOINTS SHALL EXTEND ACROSS THE FULL WIDTH OF THE TRAIL. CONTROL JOINTS SHALL BE LOCATED ON EACH SIDE OF A DRIVEWAY APRON AND NOT MORE THAN 100 FEET APART.
4. PREFORMED BITUMINOUS MATERIAL SHALL BE PLACED BETWEEN ALL FIXED OBJECTS AND THE NEW CONCRETE TRAIL.
5. ALL CONCRETE WORK SHALL BE PER GDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
6. 1/4 INCH TOOLED JOINT BETWEEN CURB AND TRAIL.
7. NEITHER WIRE MESH NOR REBAR CAN BE USED IN THE R/W.

A TS-02 MONOLITHIC TRAIL AND CURB
N.T.S



2 TS-02 SITE SECTION - JACKSON BEVERAGES PROPERTY
SCALE: 3/8" = 1'-0"

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2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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OFFICE (770) 554-6445 FAX (770) 554-7055
120 CORPORATE DRIVE
LAWRENCEVILLE, GA 30111
E-MAIL: mail@georgiawest.com

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

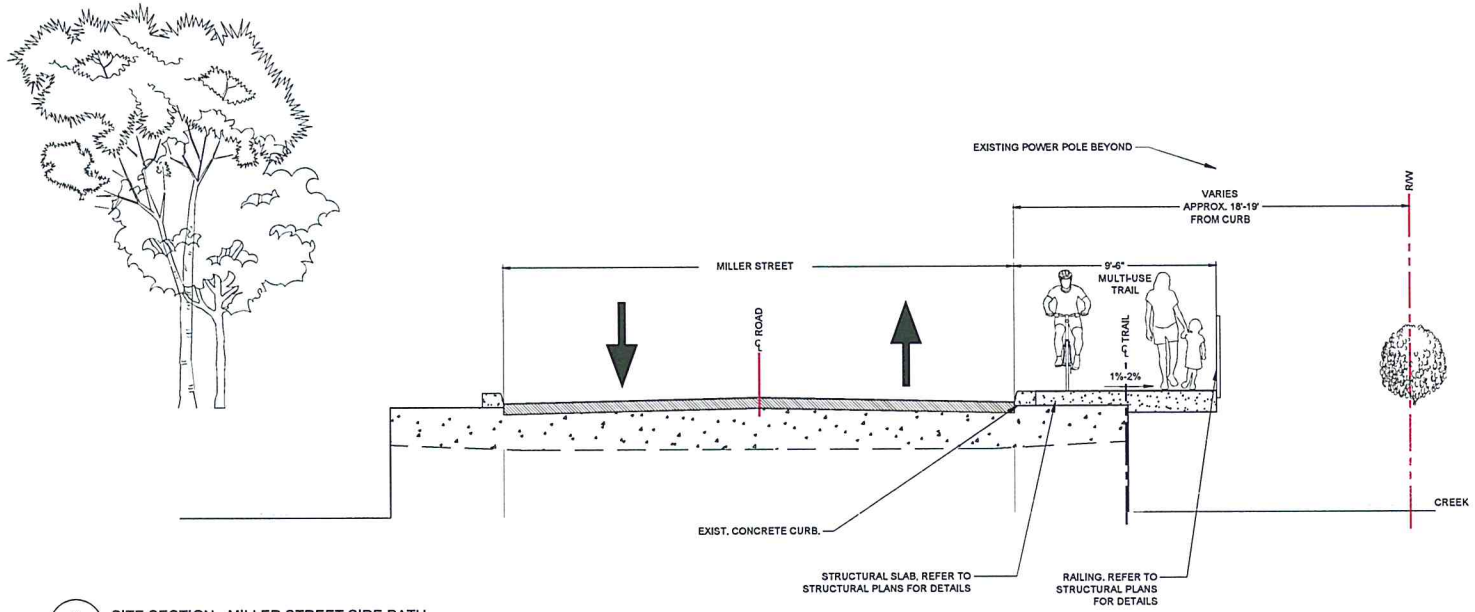
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 21601 WAYNE D. BAGBY

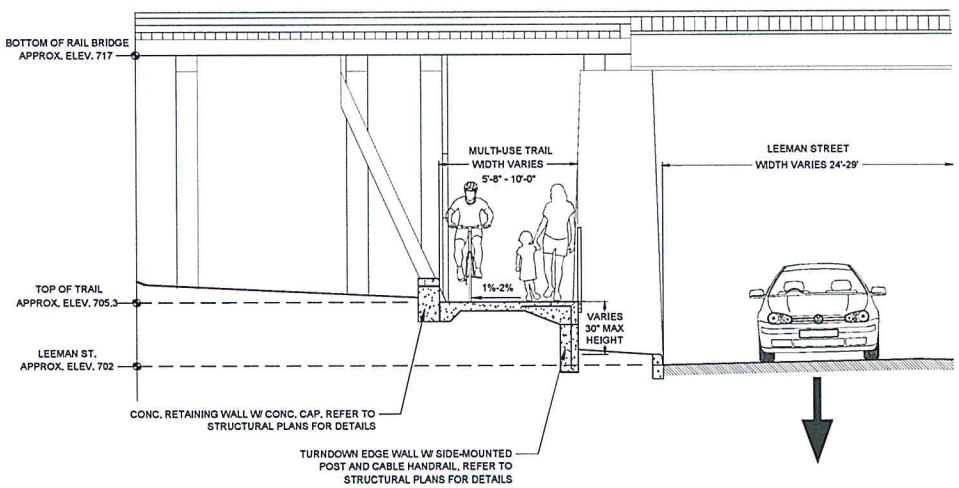
GEORGIA REGISTERED No. 21874 PROFESSIONAL ENGINEER ANGELA M. ALDRIDGE 11/13/2020

TYPICAL SECTION

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	TS-02



1 / TS-03 SITE SECTION - MILLER STREET SIDE PATH
SCALE: 3/8" = 1'-0"



2 / TS-03 SITE SECTION - LEEMAN STREET CSX UNDERPASS TRAIL CROSSING
SCALE: 3/8" = 1'-0"

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GEORGIA & WEST, INC.
ENGINEERING LAND SURVEYING LAND PLANNING
125 CORPORATE DRIVE OFFICE (770) 534-4567 FAX
LAWRENCEVILLE, GA 30243 (770) 534-4567
E-MAIL: info@georgiawest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

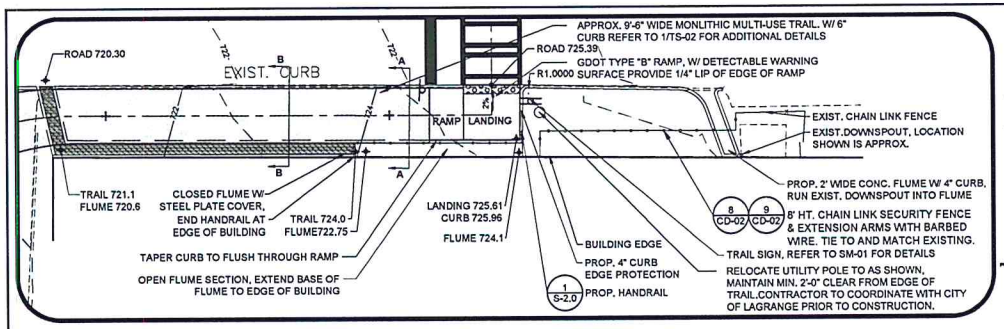
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

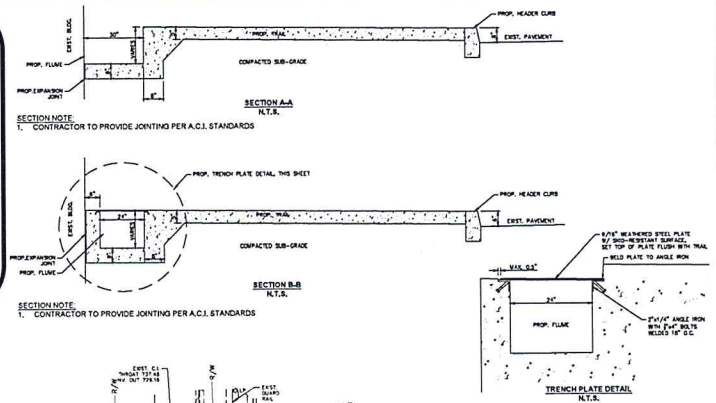
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 33481 JOHN D. BASS

GEORGIA REGISTERED No. 3101 PROFESSIONAL ENGINEER CHARLES M. AUSTIN 11/13/2020

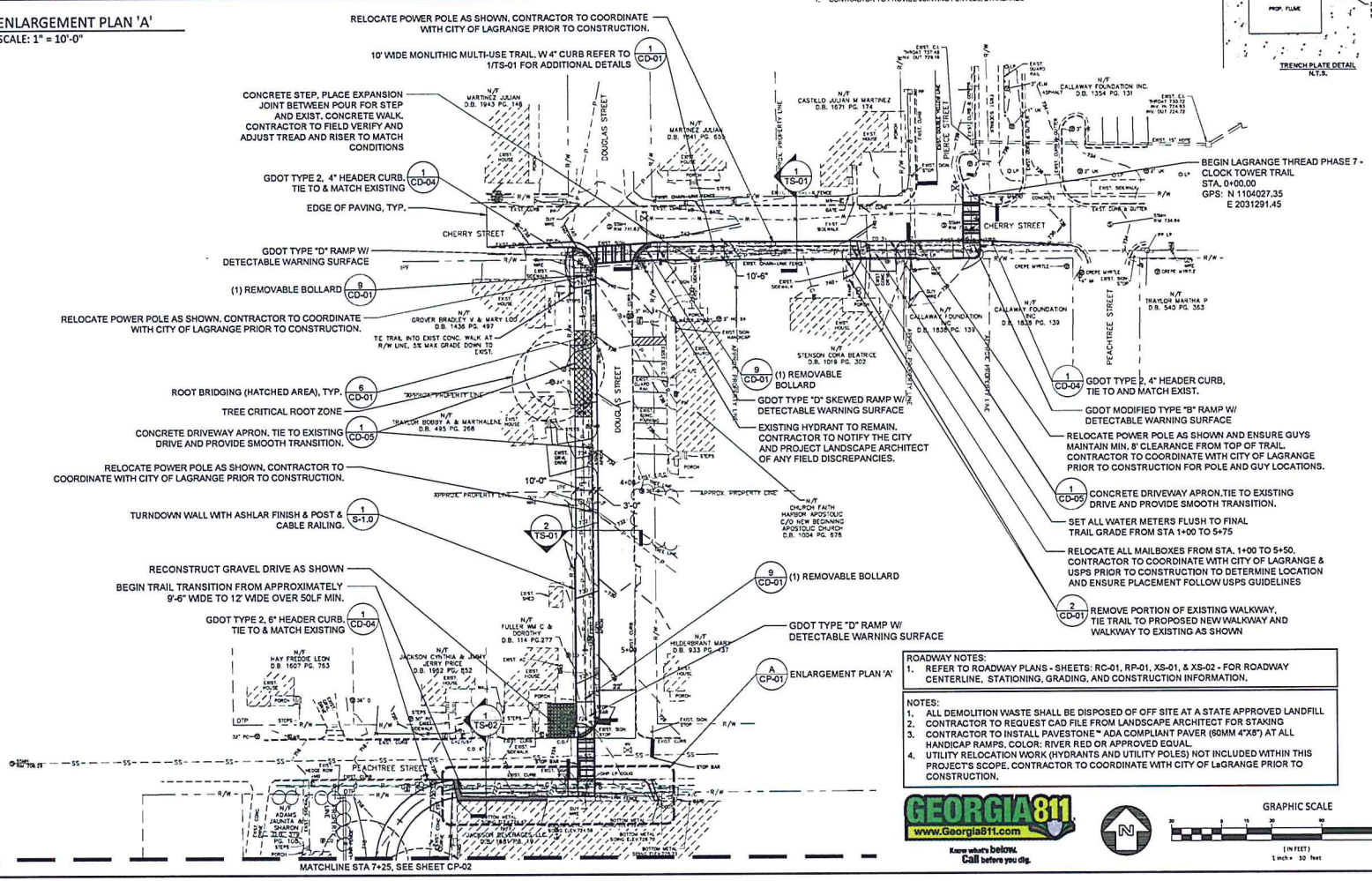
TYPICAL SECTION

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	TS-03





A ENLARGEMENT PLAN 'A'
CP-01 SCALE: 1" = 10'-0"



ROADWAY NOTES:
1. REFER TO ROADWAY PLANS - SHEETS: RC-01, RP-01, XS-01, & XS-02 - FOR ROADWAY CENTERLINE, STATIONING, GRADING, AND CONSTRUCTION INFORMATION.

NOTES:
1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL
2. CONTRACTOR TO REQUEST CAD FILE FROM LANDSCAPE ARCHITECT FOR STAKING
3. CONTRACTOR TO INSTALL PAVESTONE ™ ADA COMPLIANT PAVER (60MM 4"X8") AT ALL HANDICAP RAMPS. COLOR: RIVER RED OR APPROVED EQUAL.
4. UTILITY RELOCATION WORK (HYDRANTS AND UTILITY POLES) NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONTRACTOR TO COORDINATE WITH CITY OF LaGRANGE PRIOR TO CONSTRUCTION.

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GRAPHIC SCALE (IN FEET) 1 inch = 30 feet

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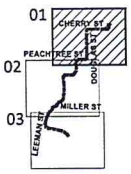
ENGINEERING LAND SURVEYING LAND PLANNING
116 CORPORATE DRIVE
CARROLLTON, GA. 30117
OFFICE (770) 834-8454 FAX (770) 834-1955
E-MAIL: mail@georgiawest.com



Key Map

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 21679 JOHN D. BARR

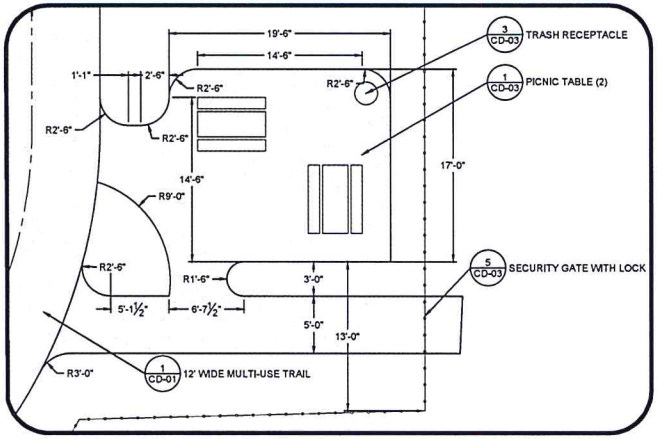
GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 31679 CLAYTON M. WEST 11/13/2020

CONSTRUCTION PLAN

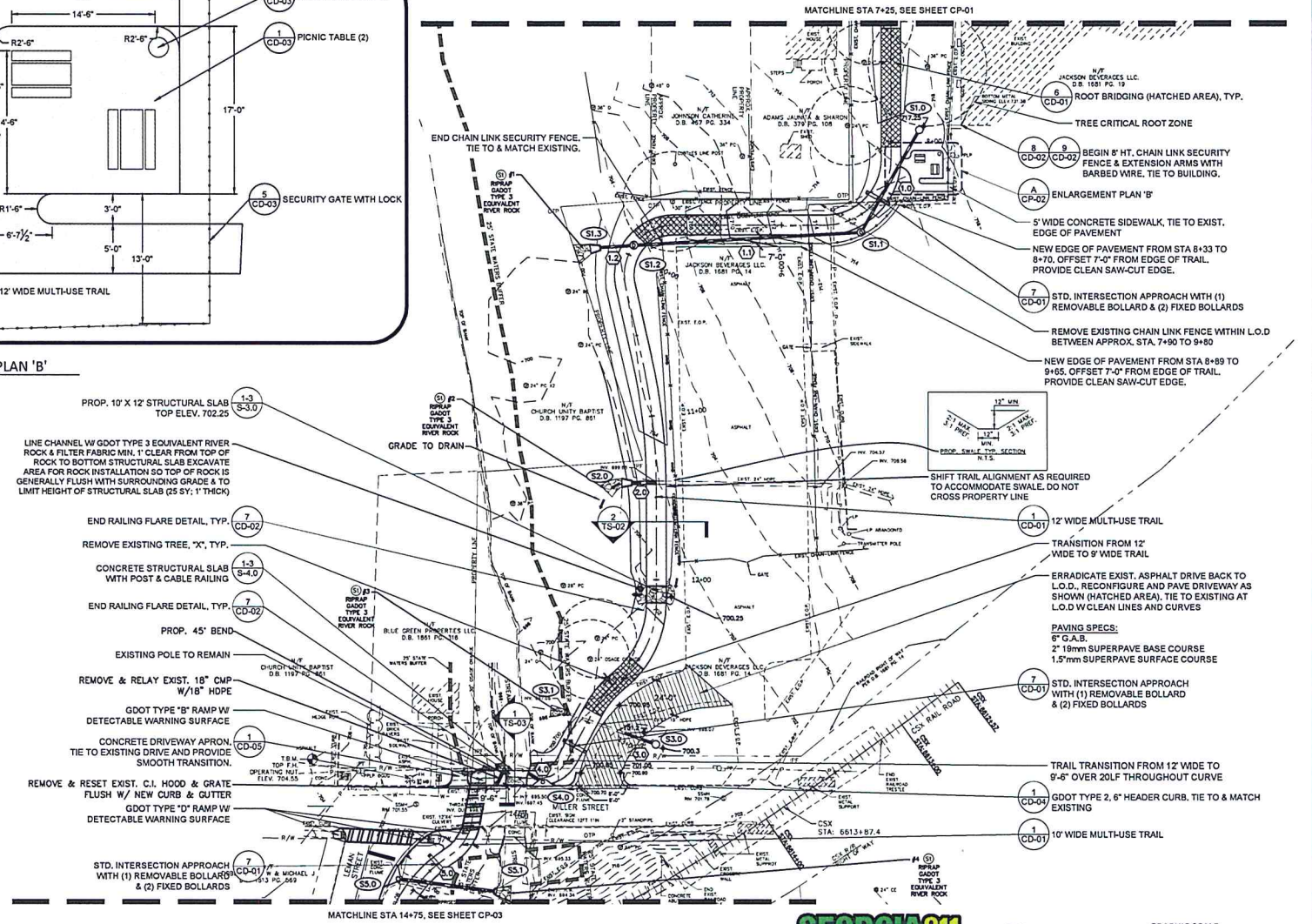
SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	CP-01

NOTES:
1. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF SITE AT A STATE APPROVED LANDFILL
2. CONTRACTOR TO REQUEST CAD FILE FROM LANDSCAPE ARCHITECT FOR STAKING
3. CONTRACTOR TO INSTALL PAVESTONE™ ADA COMPLIANT PAVER (60MM 4"X8") AT ALL HANDICAP RAMPS. COLOR: RIVER RED OR APPROVED EQUAL.
4. UTILITY RELOCATION WORK (HYDRANTS AND UTILITY POLES) NOT INCLUDED WITHIN THIS PROJECT'S SCOPE. CONTRACTOR TO COORDINATE WITH CITY OF LaGRANGE PRIOR TO CONSTRUCTION.

CSX NOTES:
1. NO WORK SHALL BE PERFORMED WITHIN CSX R/E WITHOUT PRIOR APPROVAL FROM CSX.



A CP-02 ENLARGEMENT PLAN 'B'
SCALE: 1" = 5'-0"



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GRAPHIC SCALE (IN FEET) 1 inch = 30 feet

KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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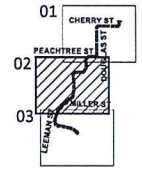
ENGINEERING LAND SURVEYING LAND PLANNING
125 CORPORATE DRIVE CARROLLTON, GA. 30117
OFFICE: (770) 834-0014 FAX (770) 834-1005
E-MAIL: ma.llc@georgiaandwest.com



Key Map

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

CONSTRUCTION PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	CP-02

NOTES:
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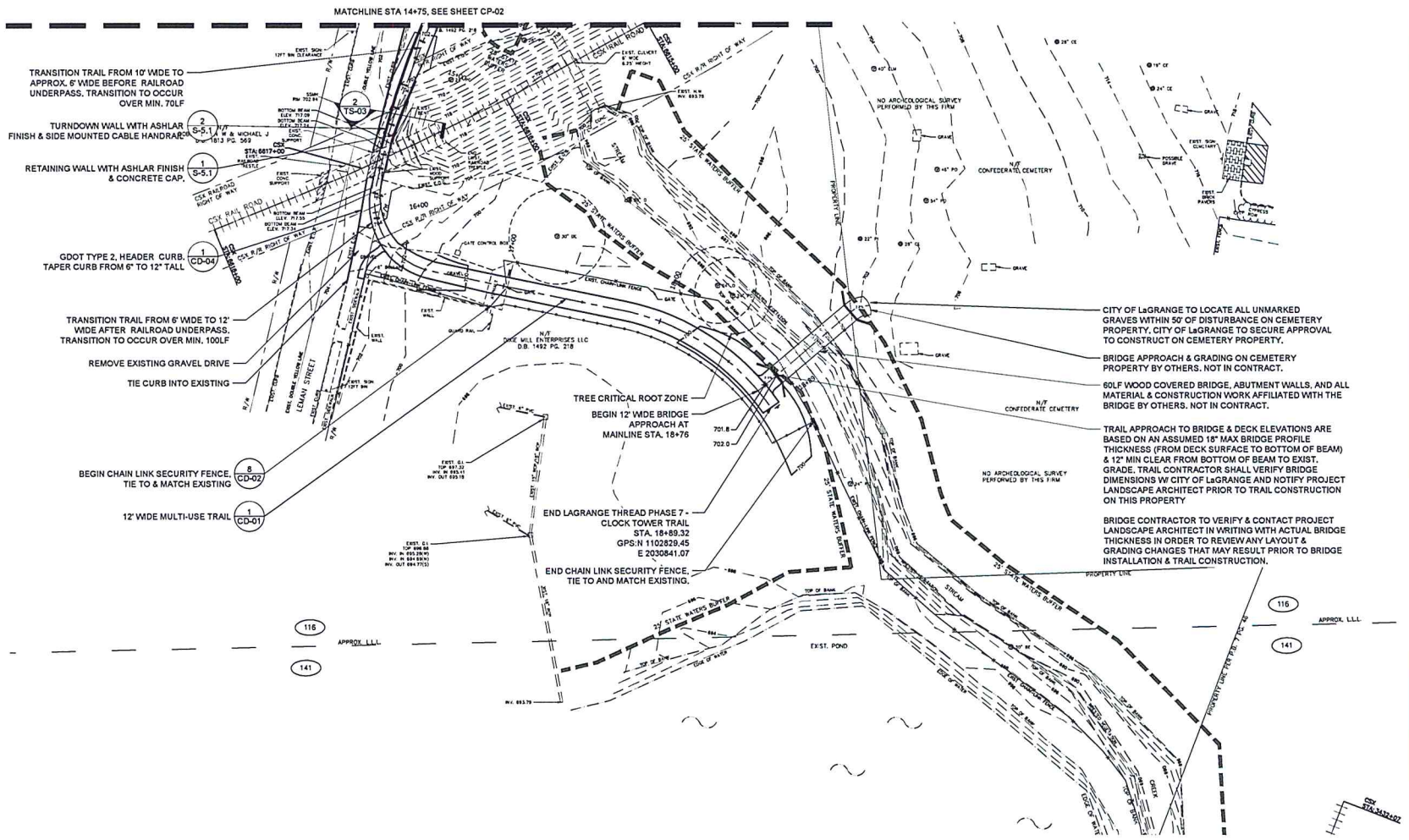

KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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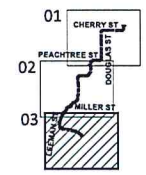
ENGINEERING LAND SURVEYING LAND PLANNING
125 CORPORATE DRIVE, CARROLLTON, GA. 30117
OFFICE: (770) 834-8164 FAX (770) 834-1505
E-MAIL: mail@georgiaandwest.com



Key Map

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 33481 JOHN D. BASS

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31674 ALLEN M. MARTIN 11/13/2020

CONSTRUCTION PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	CP-03

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH CIVIL AND LANDSCAPE ARCHITECT DRAWINGS, AND PROMPTLY NOTIFY THE ARCHITECT/ENGINEERS OF ANY DISCREPANCIES OR OMISSIONS.
2. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO COMMENCING WORK. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.
3. STRUCTURE ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE UPON COMPLETION. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, RE-SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. DO NOT SCALE DRAWINGS. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWING. ANY MISSING DIMENSIONS WILL BE FURNISHED UPON REQUEST.
5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
6. THESE GENERAL NOTES APPLY WHERE OTHER PROVISIONS ARE NOT PROVIDED BY THE DRAWINGS, SPECIFICATIONS OR TYPICAL DETAILS. IN CASE OF SPECIAL CONDITIONS INDICATED ON DRAWINGS, THE DRAWINGS SHALL GOVERN OVER THE SPECIFICATIONS.
7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES, AS WELL AS AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2012, THE AISC 360 FOR DESIGN OF STEEL ELEMENTS, AND THE ACI318-11 FOR DESIGN OF CONCRETE ELEMENTS.

CONCRETE:

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTIFIED BY THE REQUIREMENTS OF THESE STRUCTURAL DRAWINGS.
2. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A DESIGNATED COMPRESSIVE STRENGTH (F'c) IN 28 DAYS OF 3000 PSI WITH A 4" (±1") SLUMP UNLESS NOTED OTHERWISE.
3. CONCRETE COARSE AGGREGATE, WITH A MAXIMUM SIZE OF 1" MAY BE USED IN FOUNDATIONS. ALL OTHER CONCRETE SHALL HAVE A COARSE AGGREGATE WITH A MAXIMUM SIZE OF ¾".
4. CONCRETE MIXING, TRANSPORTING, PLACING, AND CURING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 301. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH REQUIREMENTS OF ASTM C94 OR ASTM C685.
5. NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMING AND SHORING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND LOADS PLACED THEREON.
6. ALL EQUIPMENT FOR MIXING AND TRANSPORTING CONCRETE SHALL BE CLEAN. ALL DEBRIS, WATER AND ICE SHALL BE REMOVED PRIOR TO PLACING CONCRETE. FORMS SHALL BE PROPERLY COATED. REINFORCEMENT SHALL BE CLEAN OF ICE OR OTHER DELETERIOUS COATING. ALL LATANCE AND OTHER UNSOUND MATERIAL SHALL BE REMOVED BEFORE ADDITIONAL CONCRETE IS PLACED AGAINST HARDENED CONCRETE.
7. MINIMUM COVER FOR CAST-IN-PLACE CONCRETE REINFORCEMENT:

	MINIMUM COVER (IN)
(a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
(b) CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	½

DESIGN CRITERIA

S-3.0 & S-4.0: TYPICAL STRUCTURAL SLAB & STRUCTURAL SLAB OVER BOX CULVERT & WING WALLS DESIGNED LOADS:

- VEHICLE:
  10 TON MAX. LOAD (H10)
  16,000LB MAX. AXLE LOAD
  8000LB MAX. WHEEL LOAD
  NO IMPACT, NON-CONCURRENT W/ PEDESTRIAN LOAD
- PEDESTRIAN:
  90 PSF (NO REDUCTION)

FOUNDATION:

1. DESIGN SOIL BEARING PRESSURES ARE INDICATED ON THE SITE PLANS AND DETAILS. THESE VALUES SHALL BE FIELD VERIFIED AT EACH EXCAVATION PRIOR TO FOUNDATION CONSTRUCTION. NOTIFY STABILITY ENGINEERING IF FIELD CONDITIONS VARY BY MORE THAN 10% FROM DESIGN VALUES. ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL.
2. ALL BACKFILLING SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY A REGISTERED SOILS ENGINEER. FILL MATERIAL TAKEN FROM SITE EXCAVATION SHALL HAVE OPTIMUM MOISTURE CONTENT FOR COMPACTION AND BE FREE OF ANY DEBRIS. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D698, IN MAXIMUM LIFTS OF EIGHT INCHES. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WITHOUT PROVISIONS FOR ADEQUATE BRACING OF THESE WALLS.
3. ALL SOIL CONDITIONS ARE SUBJECT TO EVALUATION BY A SOILS ENGINEER PRIOR TO FOUNDATION CONSTRUCTION. SOILS WITHOUT ADEQUATE CAPACITY TO SUPPORT DESIGN LOADS MUST BE REPLACED OR MODIFIED PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. SEE LANDSCAPE ARCHITECT DRAWINGS FOR CONCRETE FINISHING REQUIREMENTS.
5. ALL CONCRETE RETAINING WALLS SHALL BE CURED AT LEAST SEVEN DAYS PRIOR TO BACKFILLING IN ACCORDANCE WITH APPLICABLE CODES.

REINFORCING:

1. CONCRETE REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A615, GRADE 40 FOR #3 BARS AND ASTM A615, GRADE 60 FOR #4 AND LARGER BARS. WELDED WIRE MESH SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A185.
2. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.
3. REINFORCING STEEL SHALL BE SPLICED ONLY AS INDICATED ON THE PLANS. WHEN SPLICE LENGTHS ARE NOT GIVEN ON THE PLANS, THEY SHALL BE TAKEN FROM THE TABLE BELOW. USE "CLASS B" LAPS UNLESS THE PLANS INDICATE "CLASS A".

BAR SIZE	CLASS "B" SPLICE	CLASS "A" SPLICE
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"

LAPS SHOWN ABOVE WERE CALCULATED PER ACI 318-11, EQ. 12-1 FOR MATS, WALLS, BEAMS, COLUMNS AND SLABS. VALUES ASSUMED ARE: f'c 3000 PSI, Ktr=0, 1" MIN COVER AND 2" MIN CLEAR BETWEEN BARS FOR #4, #5 AND #6 BARS, AND 1½" MIN COVER AND 3" MIN CLEAR BETWEEN BARS FOR #7 THRU #11 BARS. SHORTER LAPS MAY BE CALCULATED FOR SOME SPECIFIC CONDITIONS SUCH AS TIED BEAMS OR ADDITIONAL COVER. LAPS MUST BE INCREASED 50% PER ACI 318-11 FOR EPOXY COATED REBAR, OR 30% FOR LIGHTWEIGHT CONCRETE.

4. ALL BAR HOOKS SHALL BE STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. SEE SECTION 7.7 OF ACI 318-11 FOR CONDITIONS NOT NOTED.
6. DESIGN OF STRUCTURAL CONCRETE ELEMENTS IS IN ACCORDANCE WITH ACI 318.

RAILINGS & STEEL CONNECTORS:

1. ALL STEEL CONNECTORS, FASTENERS, AND ANCHORS FOR RAILINGS SHALL BE STAINLESS STEEL U.N.O. WASHERS SHALL BE PROVIDED UNDER ALL BOLT HEADS AND NUTS.
2. ALL RAILING POSTS AND HORIZONTAL RAILS TO BE CORTEN WEATHERING STEEL. ALL MISCELLANEOUS ANGLES AND PLATES TO BE CORTEN WEATHERING STEEL. AT TRAIL SEGMENTS WITH CURVED ALIGNMENTS, TOP RAILS MUST BE RADIUSED IN SHOP BASED ON MEASUREMENTS TAKEN FROM FIELD CONDITIONS AFTER POST INSTALLATION.
3. ALL RAILING CABLES SHALL BE ¼" ø STAINLESS STEEL.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
   STRUCTURAL STEEL ..... ASTM A992 GRADE 50 U.N.
   STEEL ANGLES, CHANNELS & PLATES ..... ASTM A36 U.N.
   STEEL PIPES ..... ASTM A53, GRADE B
   STEEL TUBES (HSS) ..... ASTM A500, GRADE C
   HIGH STRENGTH BOLTS ..... ASTM A325, GALVANIZED
   NUTS ..... ASTM A563, GALVANIZED
   UNFINISHED BOLTS ..... ASTM A307
   WELDING ELECTRODES ..... AWS CLASS E70
   ANCHOR BOLTS ..... F1554, GR. 36
2. THE STRUCTURAL STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS NOT DETAILED HEREIN. SHOP DRAWINGS SHALL BE FULLY APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION. DESIGN OF SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS BY OTHER THAN THE PROJECT STRUCTURAL ENGINEER-OF-RECORD SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PROJECT. CONNECTION DESIGN INCLUDING BUT NOT LIMITED TO BRACE END CONNECTIONS, MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS, AND MEMBER SPLICE CONNECTIONS. INDICATE DESIGN FORCES AND REACTIONS FOR EACH APPLICABLE CONNECTION.
3. THE STRUCTURAL STEEL FRAME SHALL BE BRACED IN TWO DIRECTIONS DURING CONSTRUCTION, INCLUDING HORIZONTAL BRACING AT CONCRETE FLOORS, UNTIL ALL FINAL CONNECTIONS HAVE BEEN MADE AND CONCRETE IS PLACED AND CURED.
4. ALL STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY.

STEEL DECK:

1. ALL STEEL DECKS SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.
2. ALL ROOF DECKS SHALL BE 1½"x18-GAUGE WIDE RIB (TYPE B) DECK. ATTACHMENT SHALL BE 36/3 WELD PATTERN WITH 5/8" PUDDLE WELDS AND (2) #10 SCREWS @ SIDE-LAPS.

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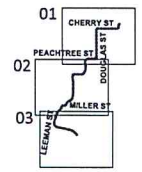
ISSUED FOR CONSTRUCTION



Key Map North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT
1	01/08/2021	ADDENDUM #1

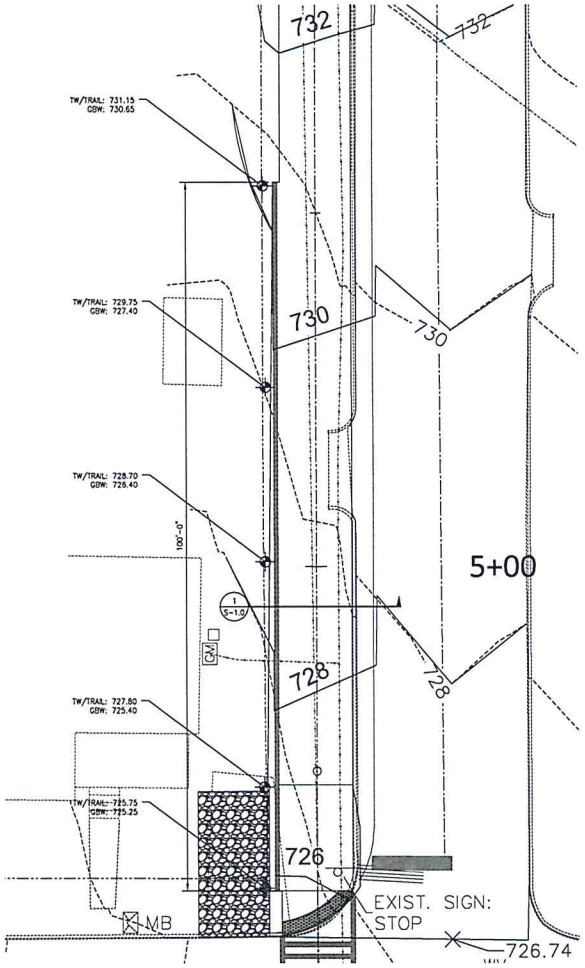
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALLEN MORRIS 11/13/20

GENERAL NOTES

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-0.0



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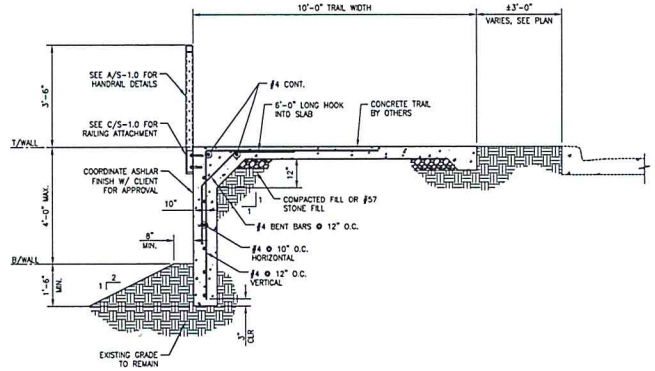
SITE PLAN
SCALE: 3/32"=1'-0"

NOTES:

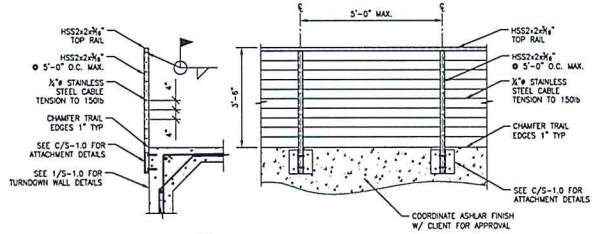
1. SEE CP-01 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. SITE PLAN SHOWN FOR REFERENCE ONLY.



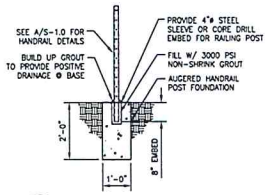
1 / S-1.0 TURNDOWN WALL DETAIL
SCALE: 1/2"=1'-0"

DESIGN NOTES:

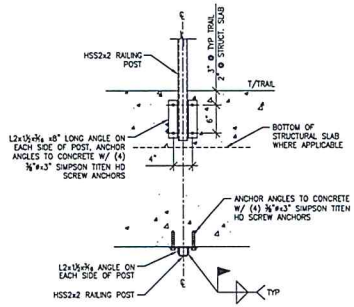
1. MIN. CONCRETE STRENGTH, f'c = 3000 psi @ 28 DAYS
2. STEEL REINFORCING, fy = 60,000 psi
3. ASSUMED SOIL PROPERTIES, γ = 110 pcf, μ = 0.30, Pa = 40 psf
4. SOIL ALLOWABLE BEARING PRESSURE = 2000 psf



A / S-1.0 STEEL CABLE HANDRAIL DETAIL
SCALE: 1/2"=1'-0"



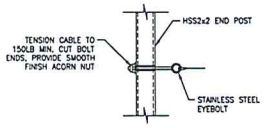
B / S-1.0 RAILING POST FOUNDATION
SCALE: 1/2"=1'-0"



C / S-1.0 RAILING ATTACHMENT DETAIL
SCALE: 1"=1'-0"

NOTES:

1. ALL BOLT HARDWARE TO BE STAINLESS STEEL.
2. INSTALLATION SEQUENCE: INSTALL ANGLE ON ONE SIDE OF POST; PLUMB POST AND WELD TO ANGLE; INSTALL ANGLE ON OPPOSITE SIDE OF POST AND WELD. POWDER COAT BLACK AFTER WELDING.



D / S-1.0 CABLE TENSION ASSEMBLY
SCALE: 1"=6"

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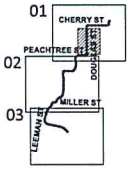


Key Map
North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

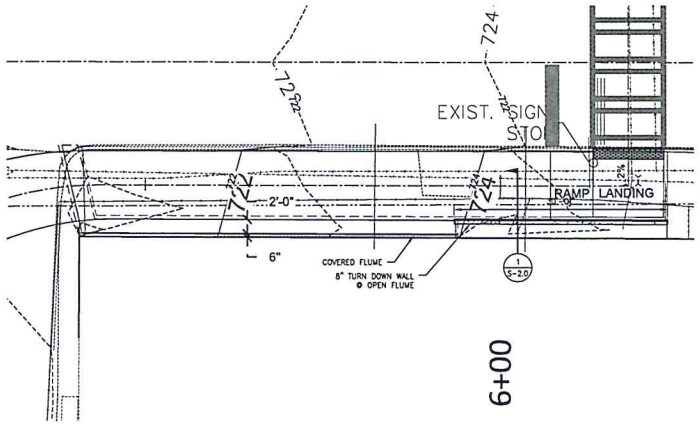
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALLEN MORRIS 11/13/20

RETAINING WALL PLAN & SECTION DETAILS

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-1.0



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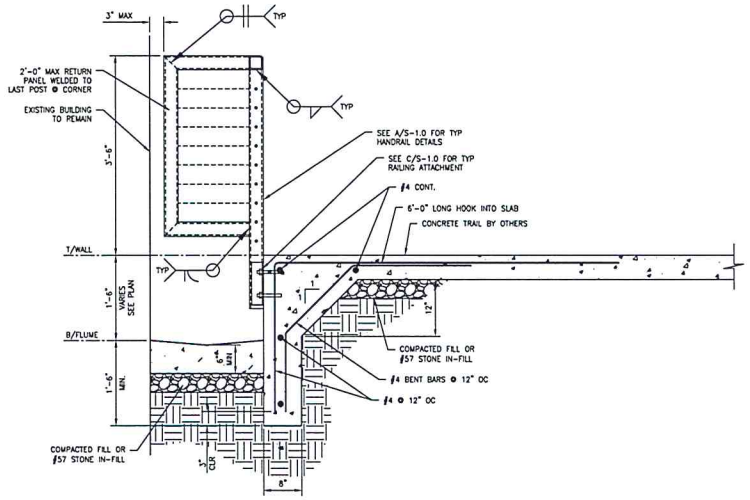
SITE PLAN
SCALE: 1/8"=1'-0"

NOTES:

1. SEE CP-01 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. SITE PLAN SHOWN FOR REFERENCE ONLY.



1
S-2.0
OPEN FLUME SECTION
SCALE: 1"=1'-0"

Se STABILITY ENGINEERING
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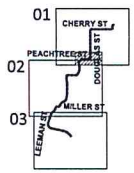


Key Map
North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

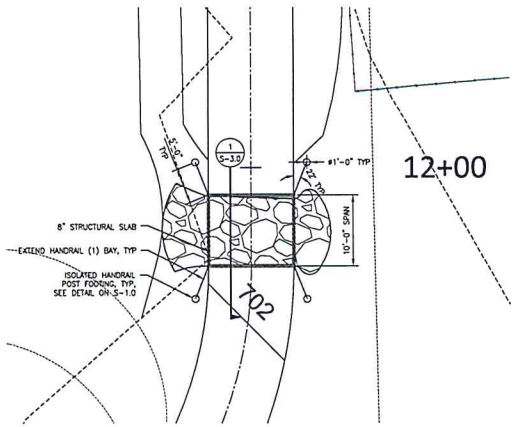
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 24881 11/13/20 ALLEN MORRIS

OPEN FLUME PLAN & SECTION DETAILS

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-2.0



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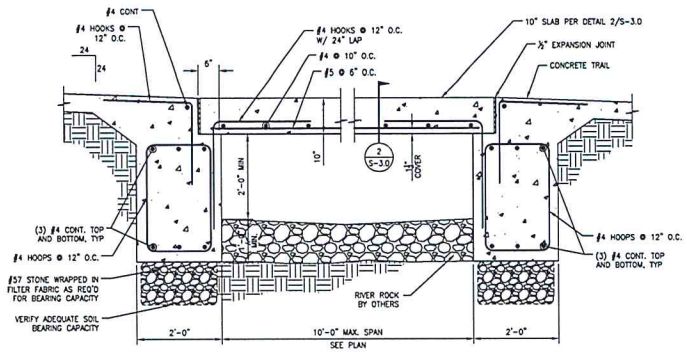
SITE PLAN
SCALE: 3/8"=1'-0"

NOTES:

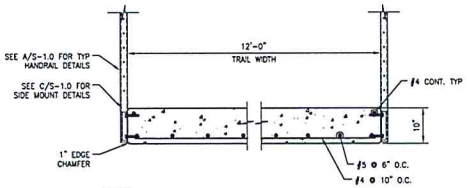
1. SEE CP-02 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. SITE PLAN SHOWN FOR REFERENCE ONLY.



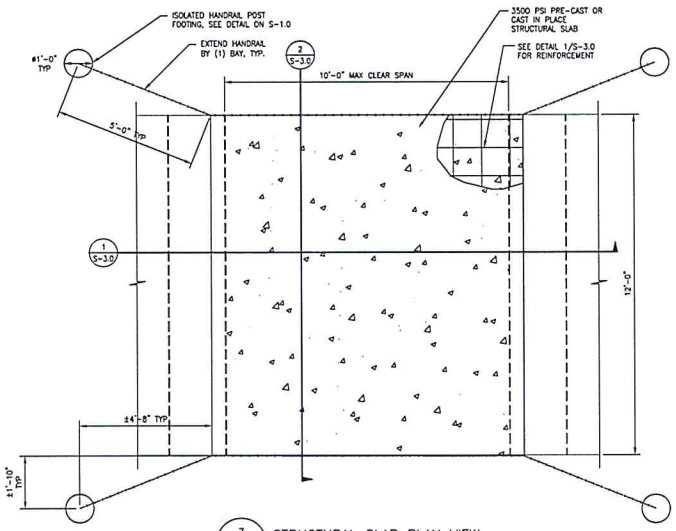
1 / S-3.0 CAST IN PLACE STRUCTURAL SLAB SECTION
SCALE: 3/4"=1'-0"

NOTES:

1. SEE GENERAL NOTES FOR SLAB DESIGN LOADS.
2. MINIMUM SOIL BEARING CAPACITY FOR STRUCTURAL SLAB FOOTING IS 2000 PSF. VALUE SHALL BE VERIFIED @ DEPTH OF EXCAVATION BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
3. IF DEEPER EXCAVATION IS REQUIRED TO ACHIEVE DESIGN SOIL BEARING CAPACITY, PROVIDE #57 STONE WRAPPED IN FILTER FABRIC FROM B/FOOTING TO B/EXCAVATION.



2 / S-3.0 STRUCTURAL SLAB CROSS SECTION
SCALE: 3/4"=1'-0"



3 / S-3.0 STRUCTURAL SLAB PLAN VIEW
SCALE: 1/2"=1'-0"

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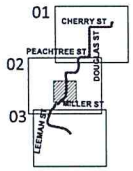


Key Map North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

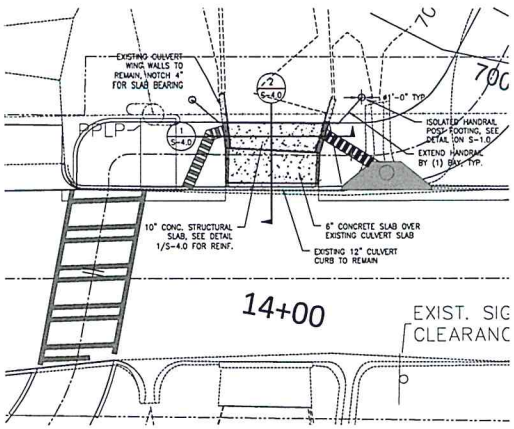
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALLEN MORRIS 11/13/20

STRUCTURAL SLAB & SECTION DETAILS

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-3.0

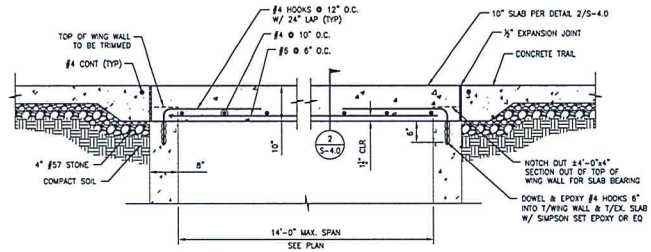


N

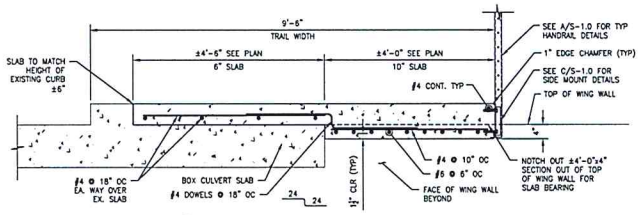
SITE PLAN
SCALE: ⅛"=1'-0"

NOTES:

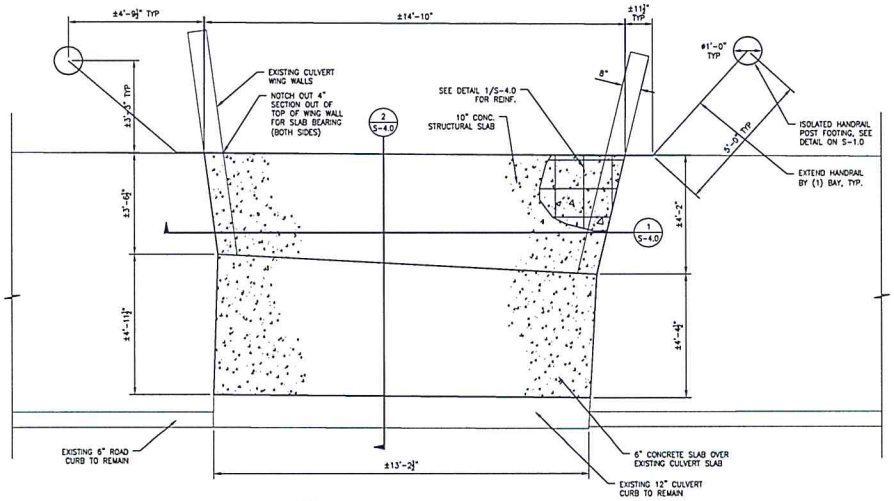
1. SEE CP-02 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. SITE PLAN SHOWN FOR REFERENCE ONLY.



1 S-4.0 CAST IN PLACE STRUCTURAL SLAB SECTION
SCALE: 3/4"=1'-0"



2 S-4.0 STRUCTURAL SLAB CROSS SECTION
SCALE: 3/4"=1'-0"



3 S-4.0 STRUCTURAL SLAB PLAN VIEW
SCALE: 1/2"=1'-0"

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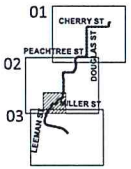
ENGINEERING LAND SURVEYING LAND PLANNING
115 SOPHIGAS SQUARE
CARROLLTON, GA 30117
OFFICE (770) 834-0414 FAX (770) 834-1325
E-MAIL: mail@georgiawest.com



Key Map
North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

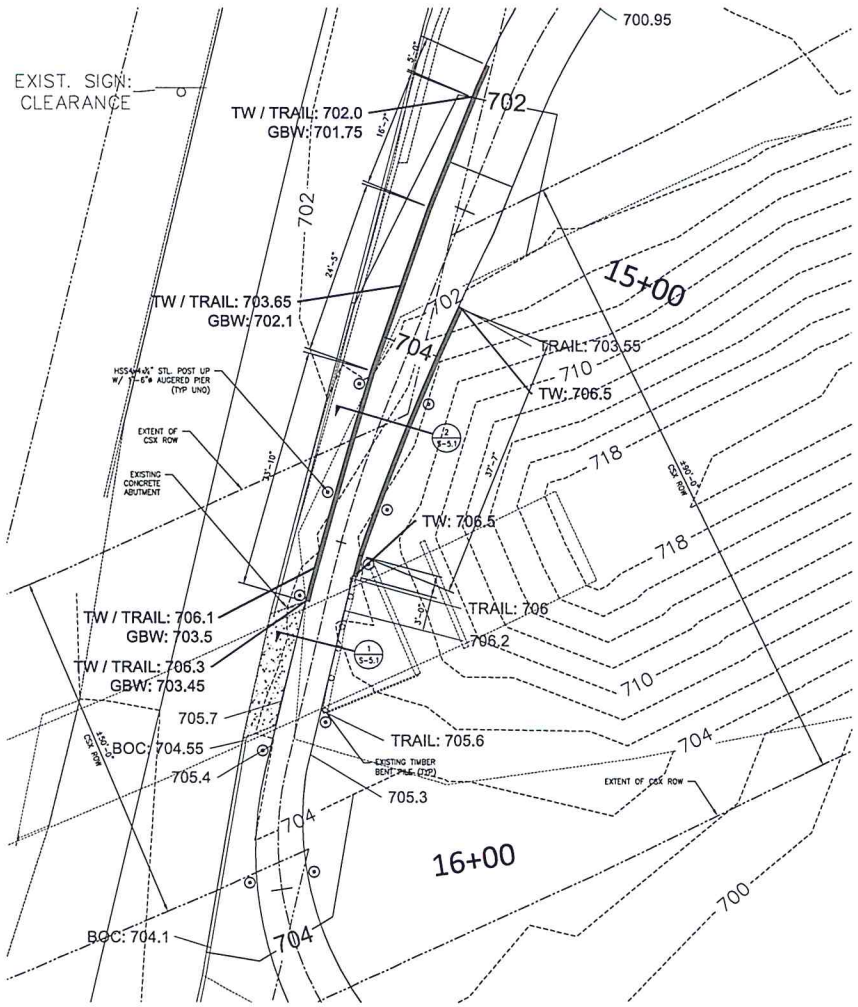
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALLEN MORRIS 11/13/20

STRUCTURAL SLAB & SECTION DETAILS

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-4.0



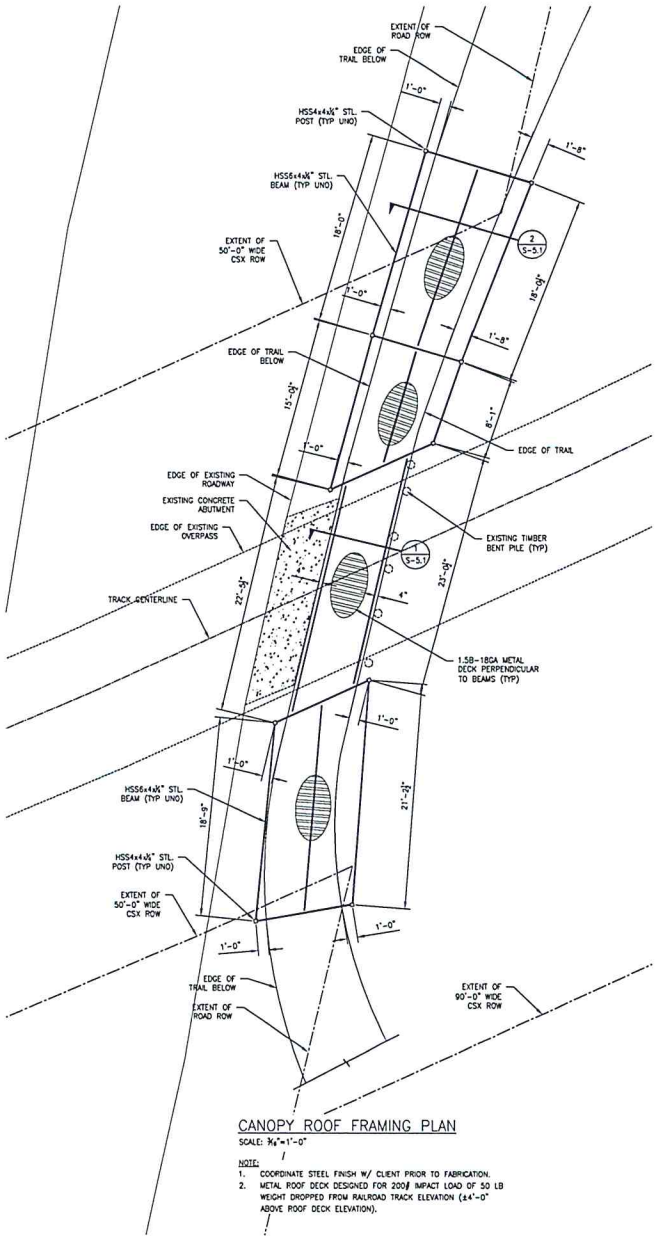
N

SITE PLAN

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

NOTES:

1. SEE CP-03 FOR TRAIL PLACEMENT & GRADE ELEVATIONS. SITE PLAN SHOWN FOR REFERENCE ONLY.



CANOPY ROOF FRAMING PLAN

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

NOTE:

1. COORDINATE STEEL FINISH W/ CLIENT PRIOR TO FABRICATION.
2. METAL ROOF DECK DESIGNED FOR 200# IMPACT LOAD OF 50 LB WEIGHT DROPPED FROM RAILROAD TRACK ELEVATION (±4'-0" ABOVE ROOF DECK ELEVATION).

Se STABILITY ENGINEERING
1376 Church St., Suite 200, Decatur, GA 30030 Ph/Fax: 404-377-0316
SE #20299

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2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

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125 CORPORATE DRIVE
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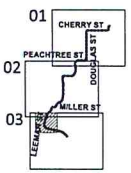
OFFICE: (770) 834-6164 FAX
(770) 834-7153
E-MAIL: info@georgiaandwest.com



Key Map

North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

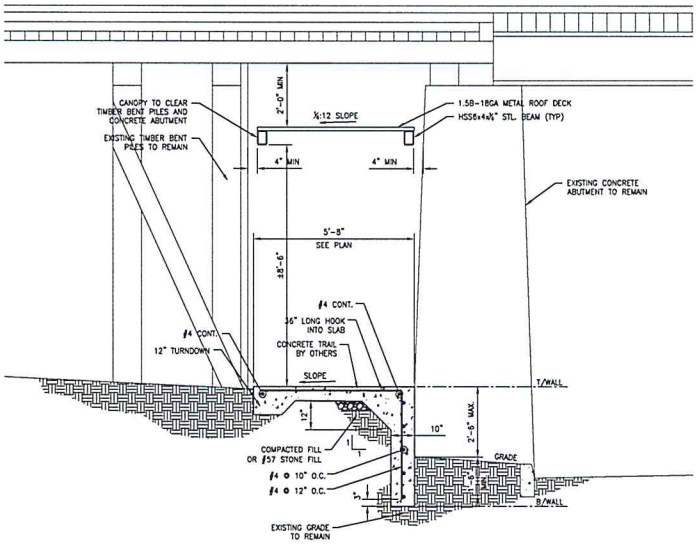
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

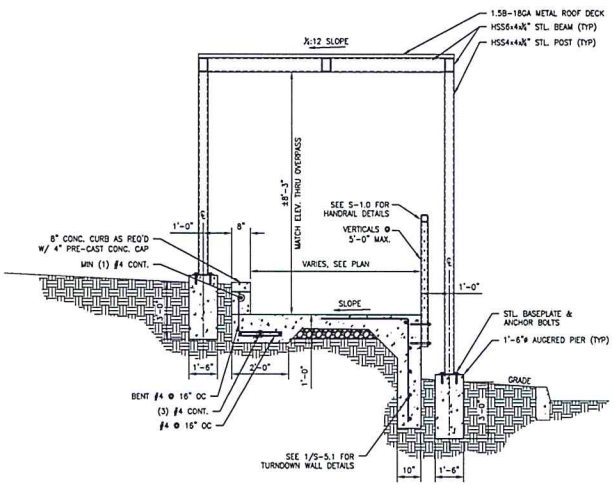
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE025401 11/13/20 ALLEN MORRIS

RAILROAD UNDERPASS SITE & FRAMING PLANS

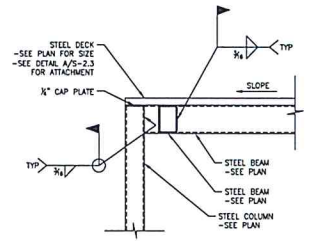
SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-5.0



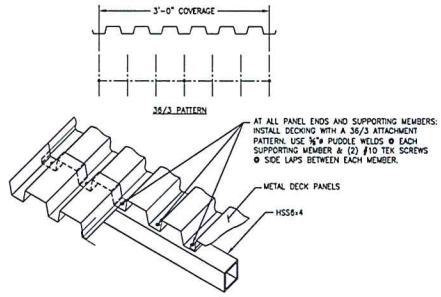
1 / S-5.1 SECTION THRU OVERPASS
SCALE: 1/2"=1'-0"



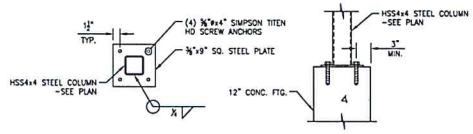
2 / S-5.1 TYP. CANOPY SECTION
SCALE: 1/2"=1'-0"



A / S-5.1 FRAMING DETAIL
SCALE: 1"=1'-0"



B / S-5.1 METAL DECK DETAIL
SCALE: 1"=1'-0"



C / S-5.1 BASEPLATE DETAIL
SCALE: 1"=1'-0"

Se STABILITY ENGINEERING
1376 Church St., Suite 200, Decatur, GA 30033 Ph/Fax: 404-377-8316
SE #20299

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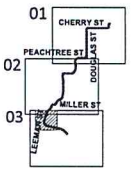
OFFICE: (770) 834-4834 FAX
(770) 834-1135
E-MAIL: mail@georgiawest.com



Key Map
North

	DATE	DESCRIPTION
	11/13/2020	ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

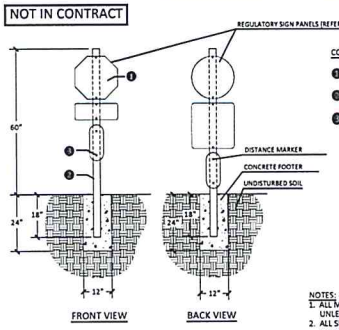
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER ALLEN MORRIS 11/13/20

RAILROAD UNDERPASS SECTION DETAILS

SCALE	NOTED
DATE	NOVEMBER 13, 2020
SHEET #	S-5.1

NOT IN CONTRACT



CONSTRUCTION KEY:

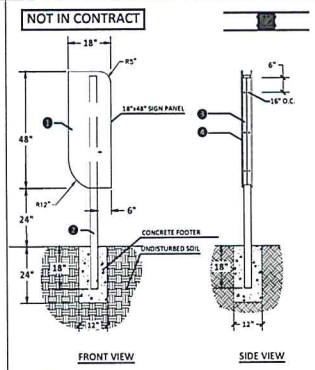
1. ALL SIGNS TO BE 1/8" THICK ALUMINUM PANEL.
2. (1) 3"X3" ALUMINUM POST, POWDER COATED BLACK.
3. EACH SIGN PANEL TO BE ATTACHED TO POST USING (2) 1" LONG, 1/4 DIA., STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.

NOTES:
1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO S/SM-03.

1 SM-00 REGULATORY SIGN

SCALE: 1/2" = 1'-0"

NOT IN CONTRACT



CONSTRUCTION KEY:

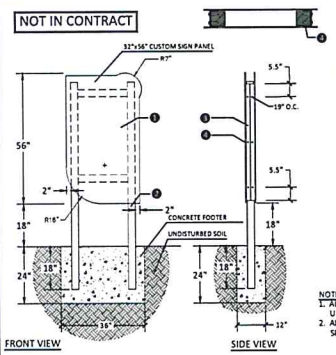
1. 1/4" THICK ALUMINUM PANEL.
2. (1) 3"X3" ALUMINUM POST, POWDER COATED BLACK.
3. (2) L-CHANNEL BRACKET, MIN. 38" LONG, ATTACHED TO POST AS SHOWN, USING 1.5" LONG, 1/2 STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
4. ATTACH SIGN PANEL TO FRONT OF L-CHANNEL BRACKET WITH LOCTITE® AA H4500 ADHESIVE.

NOTES:
1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO S/SM-03.

2 SM-00 DIRECTIONAL SIGN

SCALE: 1/2" = 1'-0"

NOT IN CONTRACT



CONSTRUCTION KEY:

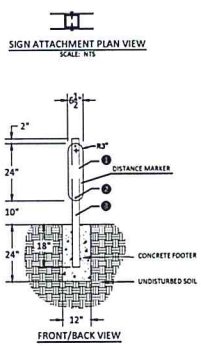
1. 1/4" THICK ALUMINUM PANEL.
2. (2) 3"X3" ALUMINUM POSTS, POWDER COATED BLACK WITH (2) 2"X2", 21" LONG ALUMINUM BRACKET WELDED TO POST
3. (2) L-CHANNEL BRACKET, MIN. 49" LONG, ATTACHED TO POST AS SHOWN, USING 2" LONG, 1/2 STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
4. ATTACH SIGN PANEL TO FRONT OF L-CHANNEL BRACKET WITH LOCTITE® AA H4500 ADHESIVE.

NOTES:
1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO S/SM-03.

3 SM-00 KIOSK SIGN

SCALE: 1/2" = 1'-0"

NOT IN CONTRACT



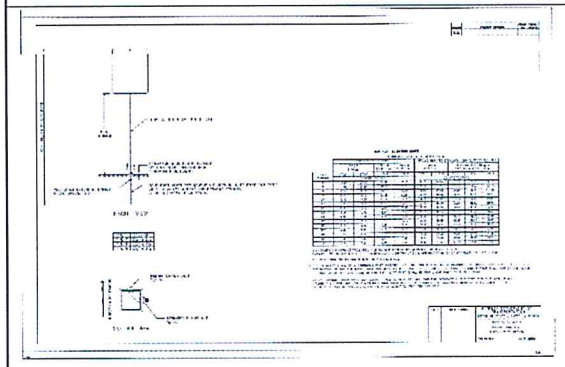
CONSTRUCTION KEY:

1. 1/8" THICK ALUMINUM PANEL.
2. (2) DISTANCE MARKER SIGN PANELS ATTACHED TO POST USING (2) 1" LONG, 1/4 DIA., STAINLESS STEEL #14A BUTTON HD TORX SECURITY METAL SCREW.
3. (1) 3"X3" ALUMINUM POST, POWDER COATED BLACK.

NOTES:
1. ALL METAL TO BE ALUMINUM POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS TO CONFORM TO PATH FOUNDATION SPECIFICATIONS. REFER TO S/SM-03.
3. SIGN PANEL DIMENSIONS SHOWN FOR STAND-ALONE DISTANCE MARKER ONLY. REFER TO SIGNING AND MARKING PLANS FOR DETAILS

4 SM-00 DISTANCE MARKER

SCALE: 1/2" = 1'-0"



5 SM-00 ROADSIGN POST DETAIL

N.T.S

PATH FOUNDATION TRAIL SIGN SPECIFICATIONS

1. ALUMINUM SIGN BLANKS SHOULD MEET REQUIREMENTS OF GEORGIA DOT SECTION 912--SIGN BLANKS AND PANELS. ALL SIGNS TO BE MADE WITH AT LEAST 0.125-INCH THICK ALUMINUM USING METAL THAT MEETS THE REQUIREMENTS OF ASTM B 209 (B 209M), ALLOY 6061-T-6 OR 5052-H38.

2. SIGNS LOCATED WITHIN RIGHT-OF-WAY SHALL USE RETROREFLECTIVE VINYL WITH AT LEAST 10-YEAR LIFE EXPECTANCY AND FOLLOW THE FEDERAL HIGHWAY ADMINISTRATION (FHA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SPECIFICATIONS. PLEASE SEE THE FOLLOWING TABLE FOR RECOMMENDED PRODUCTS FOR RETROREFLECTIVE VINYL SIGNS WITHIN THE RIGHT-OF-WAY:

RETRO REFLECTIVE VINYL

PRODUCT NAME	LIFE EXPECTANCY
3M™ High Intensity Reflective Sheeting	10YR
ORALITE® 5800 High Intensity Grade Reflective Sheeting	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

ALL REFLECTIVE SIGNS MUST INCLUDE ANTI-GRAFFITI LAMINATE OF AT LEAST 10-YEAR LIFE EXPECTANCY. PLEASE SEE THE FOLLOWING TABLE FOR RECOMMENDED PRODUCTS FOR ANTI-GRAFFITI LAMINATE:

ANTI-GRAFFITI FILMS:

PRODUCT NAME	LIFE EXPECTANCY
3M™ Protective Overlay Film Series 1160	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

3. ALL SIGNS MUST HAVE AT LEAST 10-YEAR LIFE EXPECTANCY, INCLUDING ANY CUSTOM TEXT AND GRAPHICS ON SIGNS. IF SIGN INCLUDES CUSTOM TEXT AND GRAPHICS ON ONLY ONE FACE, THEN THE BACK PANEL MUST BE BLACK WITH AT LEAST 10-YEAR LIFE EXPECTANCY. PLEASE SEE THE FOLLOWING TABLE FOR RECOMMENDED PRODUCTS FOR CUSTOM TEXT AND GRAPHICS:

CUSTOM TEXT AND GRAPHICS:

PRODUCT NAME	LIFE EXPECTANCY
Direct Print to Aluminum with Grip Gard BC System with satin, anti-graffiti clear-coat	10YR
OTHER PRODUCTS MUST BE APPROVED BY PATH PROJECT MANAGEMENT BEFORE USE	AT LEAST 10YR

4. ALL SIGNS MUST BE PRINTED WITH NAME BRAND INKS FROM THE PRINTING EQUIPMENT MANUFACTURER FOR THE PRINTER USED TO CREATE THE SIGN.

5. ON STANDARD SIGNS, THE BLACK BORDER IS INSET 3/8" FROM EACH EDGE. THE THICKNESS OF THE BLACK BORDER IS ALSO ¼", OR 18 POINT. SIGNS AT OR LARGER THAN 24" X 36" MAY COME FROM THE ARCHITECTURAL FIRM WITH LARGER BORDERS. THESE BORDERS MUST BE CONSISTENT ON ALL FOUR EDGES AND MATCH STANDARD DIE CUT CURVES ON THE CORNERS.

6. PATH GREEN IS 85 - 20 - 69 - 4 IN CMYK VALUES.
YELLOW ON PATH SIGNS IS 0 - 15 - 100 - 0.
OTHER COLORS WILL BE DETERMINED FROM THE VECTOR FILES IN THE SIGN MATRIX.

SIGN MANUFACTURERS:

1. SIGN MANUFACTURER CONTACT TO BE APPROVED BY THE CITY.

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LaGRANGE, GEORGIA 30241
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(706) 884-6816
E-MAIL: mail@georgiawest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 21674 PROFESSIONAL ENGINEER
11/13/2020

SIGNING & MARKING DETAILS

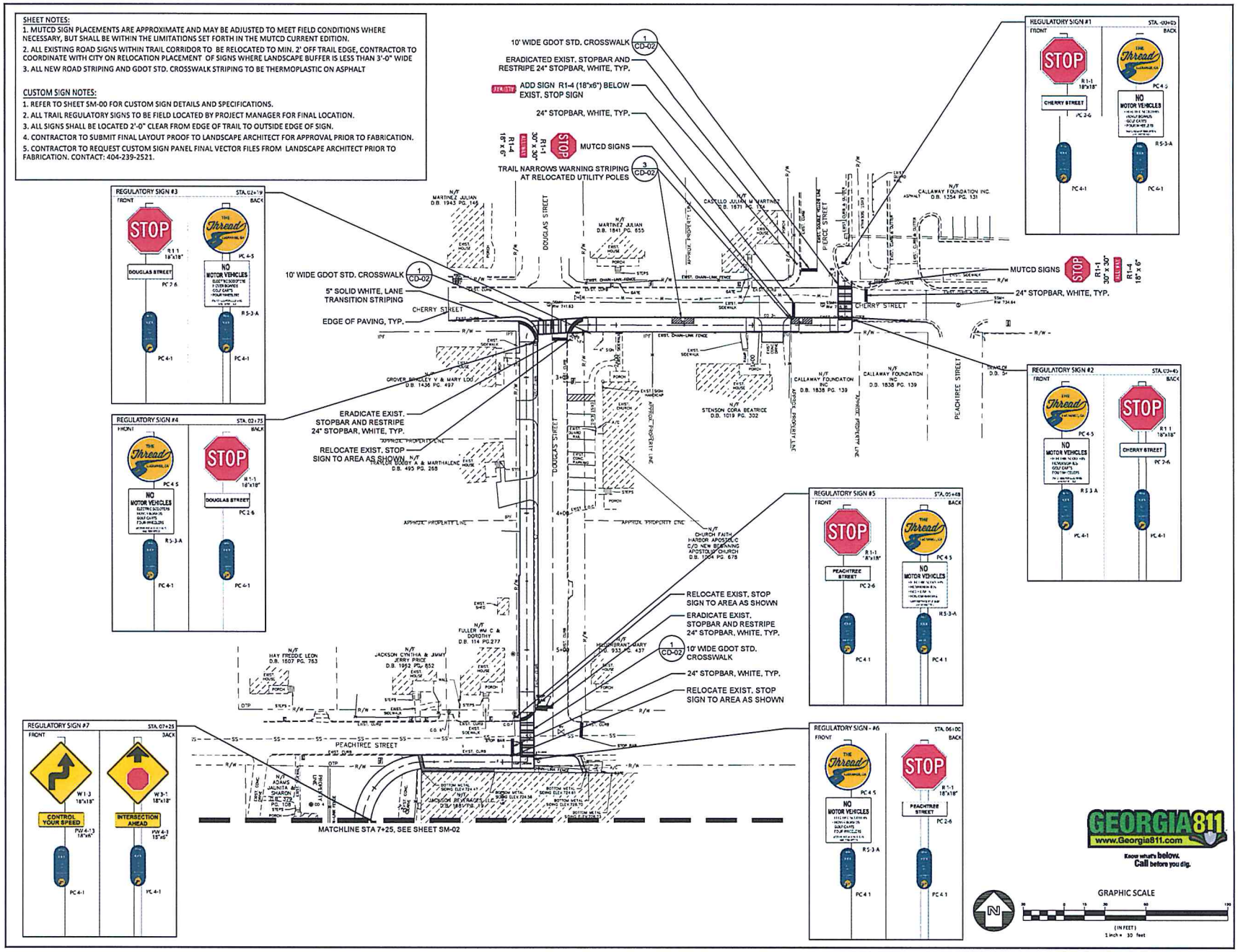
SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	SM-00

SHEET NOTES:

1. MUTCD SIGN PLACEMENTS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD CURRENT EDITION.
2. ALL EXISTING ROAD SIGNS WITHIN TRAIL CORRIDOR TO BE RELOCATED TO MIN. 2' OFF TRAIL EDGE, CONTRACTOR TO COORDINATE WITH CITY ON RELOCATION PLACEMENT OF SIGNS WHERE LANDSCAPE BUFFER IS LESS THAN 3'-0" WIDE
3. ALL NEW ROAD STRIPING AND GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT

CUSTOM SIGN NOTES:

1. REFER TO SHEET SM-00 FOR CUSTOM SIGN DETAILS AND SPECIFICATIONS.
2. ALL TRAIL REGULATORY SIGNS TO BE FIELD LOCATED BY PROJECT MANAGER FOR FINAL LOCATION.
3. ALL SIGNS SHALL BE LOCATED 2'-0" CLEAR FROM EDGE OF TRAIL TO OUTSIDE EDGE OF SIGN.
4. CONTRACTOR TO SUBMIT FINAL LAYOUT PROOF TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
5. CONTRACTOR TO REQUEST CUSTOM SIGN PANEL FINAL VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO FABRICATION. CONTACT: 404-239-2521.



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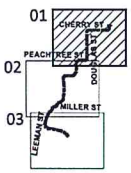
LaGRANGE, GEORGIA 30240
OFFICE: (706) 884-4868 FAX
(706) 884-4869
E-MAIL: mail@georgiaandwest.com



	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

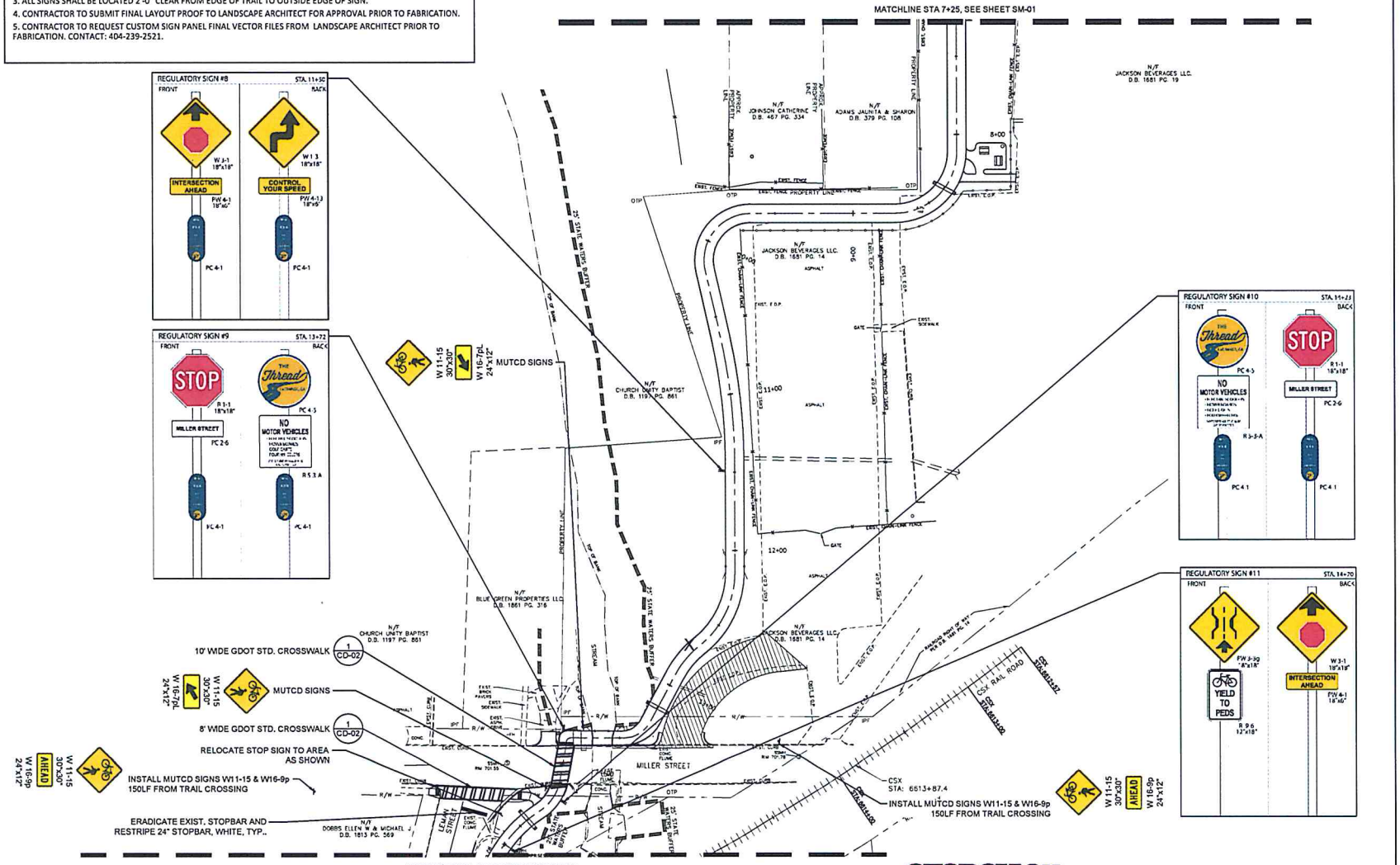
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31674 CLAY MCDONALD
11/13/2020

SIGNING AND MARKING PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	SM-01

SHEET NOTES:
1. MUTCD SIGN PLACEMENTS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD CURRENT EDITION.
2. ALL EXISTING ROAD SIGNS WITHIN TRAIL CORRIDOR TO BE RELOCATED TO MIN. 2' OFF TRAIL EDGE, CONTRACTOR TO COORDINATE WITH CITY ON RELOCATION PLACEMENT OF SIGNS WHERE LANDSCAPE BUFFER IS LESS THAN 3'-0" WIDE
3. ALL NEW ROAD STRIPING AND GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT

CUSTOM SIGN NOTES:
1. REFER TO SHEET SM-00 FOR CUSTOM SIGN DETAILS AND SPECIFICATIONS.
2. ALL TRAIL REGULATORY SIGNS TO BE FIELD LOCATED BY PROJECT MANAGER FOR FINAL LOCATION.
3. ALL SIGNS SHALL BE LOCATED 2'-0" CLEAR FROM EDGE OF TRAIL TO OUTSIDE EDGE OF SIGN.
4. CONTRACTOR TO SUBMIT FINAL LAYOUT PROOF TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
5. CONTRACTOR TO REQUEST CUSTOM SIGN PANEL FINAL VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO FABRICATION. CONTACT: 404-239-2521.



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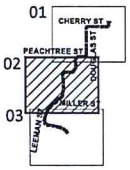
150 CORPORATE DRIVE CARROLLTON, GA. 30117
E-MAIL: MAIL@georgiaandwest.com



Key Map

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

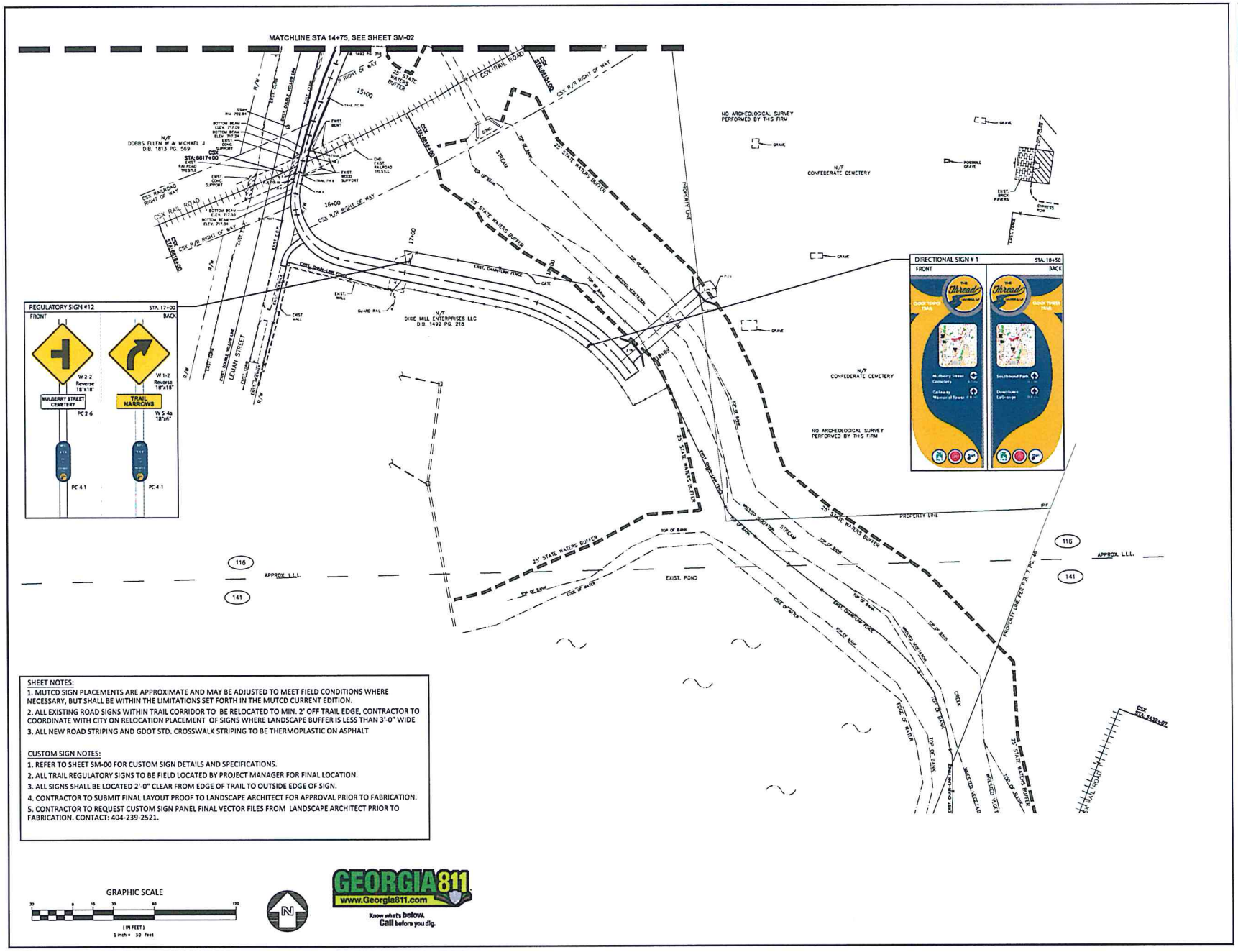
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 31874 PROFESSIONAL ENGINEER CHARLES M. ABBOTT
11/13/2020

SINGING AND MARKING PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	SM-02



SHEET NOTES:

1. MUTCD SIGN PLACEMENTS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD CURRENT EDITION.
2. ALL EXISTING ROAD SIGNS WITHIN TRAIL CORRIDOR TO BE RELOCATED TO MIN. 2' OFF TRAIL EDGE, CONTRACTOR TO COORDINATE WITH CITY ON RELOCATION PLACEMENT OF SIGNS WHERE LANDSCAPE BUFFER IS LESS THAN 3'-0" WIDE
3. ALL NEW ROAD STRIPING AND GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT

CUSTOM SIGN NOTES:

1. REFER TO SHEET SM-00 FOR CUSTOM SIGN DETAILS AND SPECIFICATIONS.
2. ALL TRAIL REGULATORY SIGNS TO BE FIELD LOCATED BY PROJECT MANAGER FOR FINAL LOCATION.
3. ALL SIGNS SHALL BE LOCATED 2'-0" CLEAR FROM EDGE OF TRAIL TO OUTSIDE EDGE OF SIGN.
4. CONTRACTOR TO SUBMIT FINAL LAYOUT PROOF TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
5. CONTRACTOR TO REQUEST CUSTOM SIGN PANEL FINAL VECTOR FILES FROM LANDSCAPE ARCHITECT PRIOR TO FABRICATION. CONTACT: 404-239-2521.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 feet

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CARROLLTON, GA. 30117
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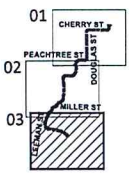

Key Map
north

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 3124 CHRISTOPHER M. ADDICKS
11/13/2020

SINGING AND MARKING PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	SM-03

GENERAL PLANTING NOTES

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASES.

2. ALL PLANTS MUST BE CONTAINER-GROWN, BALLED & BURLAPPED (B&B), OR OTHERWISE AS INDICATED IN THE PLANT LIST.

3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL-HEADED & MEET ALL REQUIREMENTS SPECIFIED.

4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT & THE OWNER BEFORE, DURING & AFTER INSTALLATION UNTIL THE DATE OF FINAL ACCEPTANCE.

5. ALL TREES OVER 8' HT MUST BE GUYED OR STAKED, UNLESS DETERMINED OTHERWISE BY OWNER. ARBORTIE, ARBORGUY, OR APPROVED EQUAL BLACK GUYING (POLYPROPYLENE MATERIAL) AND STAKING SYSTEM INSTALLED PER MANUFACTURER SPECIFICATIONS.

6. ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS PER SPECIFICATIONS. ALL PROPOSED TREES TO HAVE MINIMUM 6' DIAMETER MULCHED RING. ALL MULCH TO BE 3" SETTLED DEPTH OF CLEAN PINESTRAW, UNLESS INDICATED OTHERWISE.

7. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.

8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. PLANT SYMBOLS ON THE LANDSCAPE PLAN SUPERCEDE QUANTITIES SHOWN IN THE PLANT LIST. IN SIZE GRADING B&B TREES, CALIPER SHALL TAKE PRECEDENT OVER HEIGHT. IN SIZE GRADING MULTI-STEM TREES, HEIGHT SHALL TAKE PRECEDENCE OVER CALIPER. THE LANDSCAPE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT IF, THEY ENCOUNTER ON SITE, EXISTING CONDITIONS SIGNIFICANTLY DIFFERENT FROM THE PLAN.

9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT & THE OWNER.

10. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.

11. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF FINAL ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER DIRECTION OF THE OWNER).

12. THE LANDSCAPE CONTRACTOR AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.

13. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.

14. STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK' REPRESENT GUIDELINE SPECIFICATIONS ONLY AND CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL. ALL PLANT MATERIAL SHALL BE GRADE 'A' OR BETTER.

15. ALL DISTURBED AREAS TO BE SODDED WITH BERMUDA UNLESS OTHERWISE NOTED. TEMPORARY GRASS TO BE A COMBINATION OF ANNUAL RYE AND FESCUE SEED. ALL SOD AREAS ARE TO BE FERTILIZED AND OVERSEEDED AT TIME OF INSTALLATION. ALL AREAS DESIGNATED FOR SOD MUST BE FINE GRADED. LEVEL ANY UNDULATIONS OR IRREGULARITIES, WHILE MAINTAINING POSITIVE DRAINAGE. HANDRAKE AND SMOOTH, REMOVING ALL ROCKS LARGER THAN 1" FROM THE SURFACE. USE METAL SCREEN OR WOODEN DRAG ON LARGER SURFACES. CONTACT THE LANDSCAPE ARCHITECT FOR AN INSPECTION OF THE FINE GRADED SURFACE, PRIOR TO ANY SOD INSTALLATION.

16. ALL BERMS ARE TO BE CONSTRUCTED OF CLEAN, FRIABLE, WELL DRAINED, TOPSOIL.

17. FOR ALL PROPOSED PLANTING AREA, LANDSCAPE CONTRACTOR TO REMOVE EXISTING VEGETATION, TILL AND ADD TOPSOIL AND FERTILIZER PRIOR TO INSTALLATION. CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS. REMOVE COMPACTED SOIL, AND ADD 24" OF TOPSOIL; OR AMEND THE TOP 24" OF EXISTING SOIL TO MEET SPECIFICATIONS, UNLESS NOTED OTHERWISE.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES/STRAPPING FROM THE TRUNKS OF ALL SHADE AND ORNAMENTAL TREES IMMEDIATELY AFTER PLANTING. IDENTIFICATION TAGS AND RIBBONS SHALL BE REMOVED FROM ALL PLANT MATERIAL AT THE TIME OF PLANTING. TREE BASKETS SHALL BE CUT FROM THE TOP 1/4 OF THE ROOT BALL PRIOR TO PLANTING.

19. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RE-SET TO FINAL GRADE AND VEGETATED PER CONSTRUCTION PLANS.

20. UNLESS OTHERWISE NOTED BY THE LANDSCAPE ARCHITECT, MEDIUM SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 30" TO ANY ADJOINING WALL OR PAVED AREA. LARGE SPREADING SHRUBS SHALL BE PLANTED NO CLOSER THAN 36" TO ANY ADJOINING WALL OR PAVED AREA.

21. THE PLANTING SOIL FOR SHRUBS WILL CONSIST OF 33% GROUND PINE BARK HUMUS, WELL-MIXED WITH 67% OF IMPROVED SOIL; WHICH IS, EXCAVATED SOIL WITH ROCKS, CLUMPS, AND DEBRIS GREATER THAN 2" IN DIAMETER REMOVED. NO ADDITIONAL SOIL AMMENDMENTS ARE REQUIRED FOR TREES. GROUNDCOVER AND PERENNIAL BEDS SHALL BE PREPARED AND AMENDED ACCORDING TO SPECIFICATIONS.

22. MINIMUM (9) SQ. FT. PLANTING AREA PROVIDED FOR EACH TREE.

23. SEEDING RATE FOR BERMUDA SEED ON DISTURBED AREAS IS 1.5 LBS PER 1000 SQUARE FEET.

24. ALL PARKING ISLANDS AND LANDSCAPE BEDS ARE REQUIRED TO HAVE A GRANULAR PRE-EMERGENT HERBICIDE APPLIED TO AID WITH WEED CONTROL.

BUILDERS NOTES:

BY THIS AGREEMENT WITH THE OWNER, THE LANDSCAPE ARCHITECT HAS UNDERTAKEN A LIMITED SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDERS PLANS" IN RECOGNITION OF THE SOPHISTICATION OF THE LANDSCAPE CONTRACTOR. CONSTRUCTION WILL REQUIRE THAT THE LANDSCAPE CONTRATOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSIONS AND QUANTITY THAT ARE TREATED ONLY GENERALLY BY THE "BUILDERS PLANS." IN THE EVENT THAT CLARIFICATION IS NEEDED FOR ANY DRAWING CONTAINED IN THIS SET, IT SHALL BE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE GENERAL CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL CONSTRUCT THIS PROJECT IN COMPLIANCE WITH ANY AND ALL APPLICABLE CODES.

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	MIN. SPACING	REMARKS
			TREES			
GB	1	Ginkgo biloba	Ginkgo	3" cal.	25' o.c.	Full, upright and well branched
ARO	3	Acer rubrum 'October Glory'	October Glory Red Maple	3" cal.	25' o.c.	Full, upright and well branched
QN	1	Quercus nuttallii	Nuttall Oak	3" cal.	25' o.c.	Full, upright and well branched
CF	3	Cornus florida	Flowering Dogwood	2.5" cal.	18' o.c.	Full, upright and well branched
CC	6	Cercis canadensis	Eastern Redbud	2.5" cal.	18' o.c.	Full, upright and well branched
AA	6	Amelanchier Arcorea	Serviceberry	2.5" cal.	12' o.c.	Full, upright and well branched
			SHRUBS			
pl	75	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	5 gallon	5'-0" o.c.	Dense rounded form, good leaf color
ar	5	Abelia X 'Rose Creek'	Abelia 'Rose Creek'	3 gallon	3'-0" o.c.	Dense rounded form, good leaf color
			GROUND COVERS			
lm	55	Liriope muscari 'Big Blue'	Big Blue Liriope	1 gallon	12" o.c	Dense clump form
hs	59	Hemerocallis x 'Happy Returns'/	Happy Returns Daylily	1 gallon	12" o.c.	Good central bulb
sod	700	Sod **see note below		sq. ft.	N/A	Weed free and hardy looking

Note: Contractor to coordinate with city on sod variety to be installed.

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	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31474 CLYDE M. ARNOLD
11/13/2020

LANDSCAPE NOTES

SCALE	
DATE	NOVEMBER 13, 2020
SHEET #	LN-00

PLANTS LEGEND

TREES:

- Ginko biloba — Common Ginkgo (GB) — **Male species only
- Acer rubrum 'October Glory'/ October Glory Red Maple (ARO)
- Quercus nuttallii/ Nuttall Oak (QN)
- Cornus florida/ Flowering Dogwood (CF)
- Cercis canadensis/ Eastern Redbud (CC)
- Amelanchier Arcorea/ Serviceberry (AA)

SHRUBS:

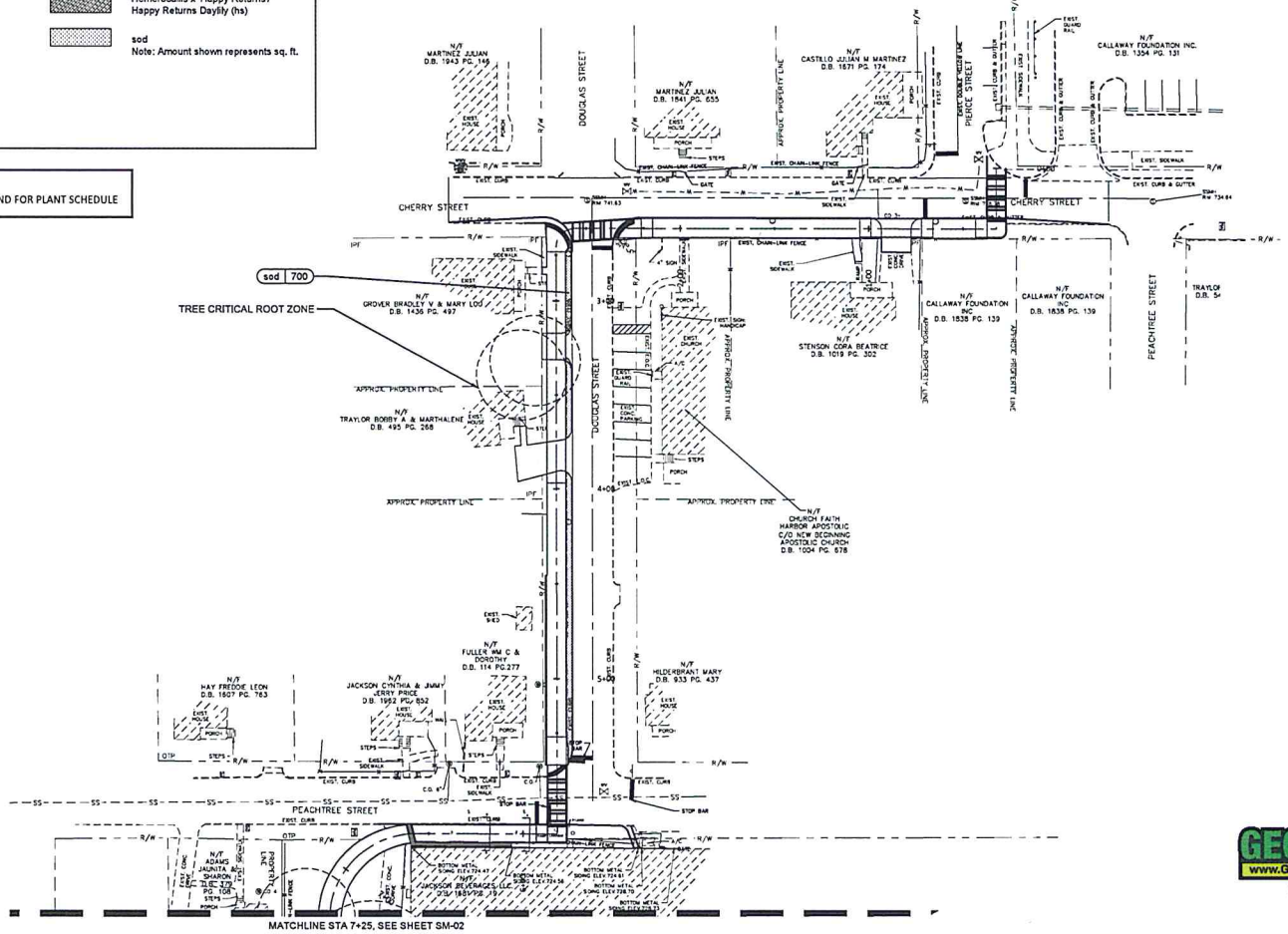
- Prunus laurocerasus 'Otto Luyken' — Otto Luyken Laurel (pl)
- Abelia x 'Rose Creek'/ Rose Creek Abelia (ar)

GOUND COVERS:

- Liriope muscari 'Big Blue'/ Big Blue Liriope (lm)
- Hemerocallis x 'Happy Returns'/ Happy Returns Daylily (hs)
- sod — Note: Amount shown represents sq. ft.

SHEET NOTES:

1. REFER TO LN-00 FOR PLANTING DETAILS AND FOR PLANT SCHEDULE



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GRAPHIC SCALE
(IN FEET)
1 inch = 30 feet

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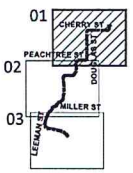


Key Map

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 31874 PROFESSIONAL LANDSCAPE ARCHITECT TED M. COX
11/13/2020

LANDSCAPE PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	LP-01

PLANTS LEGEND

TREES:

- Ginko biloba — Common Ginkgo (GB) — **Male species only
- Acer rubrum 'October Glory'/ October Glory Red Maple (ARO)
- Quercus nuttallii/ Nuttall Oak (QN)
- Cornus florida/ Flowering Dogwood (CF)
- Cercis canadensis/ Eastern Redbud (CC)
- Amelanchier Arcorea/ Serviceberry (AA)

SHRUBS:

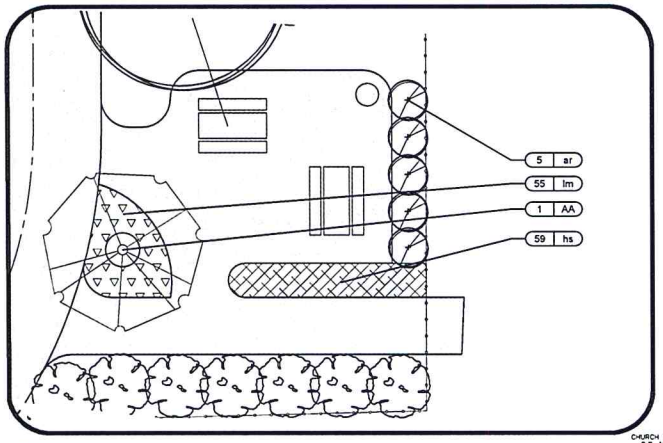
- Prunus laurocerasus 'Otto Luyken' — Otto Luyken Laurel (pl)
- Abelia x 'Rose Creek'/ Rose Creek Abelia (ar)

GOUND COVERS:

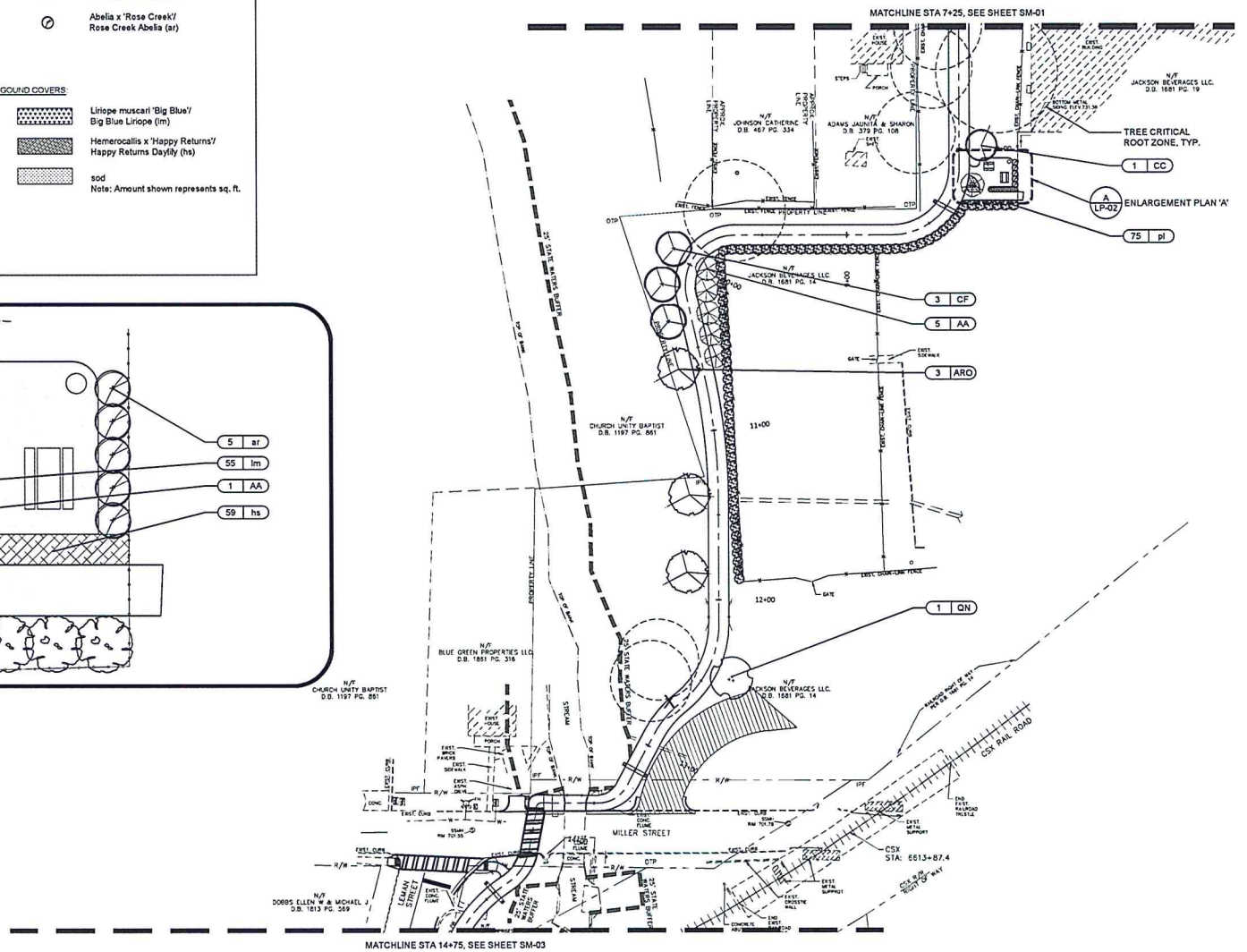
- Liriope muscari 'Big Blue'/ Big Blue Liriope (lm)
- Hemerocallis x 'Happy Returns'/ Happy Returns Daylily (hs)
- sod — Note: Amount shown represents sq. ft.

SHEET NOTES:

1. REFER TO LN-00 FOR PLANTING DETAILS AND FOR PLANT SCHEDULE



A LP-02 ENLARGEMENT PLAN 'A'
SCALE: 1" = 5'-0"



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GRAPHIC SCALE (IN FEET) 1 inch = 30 feet

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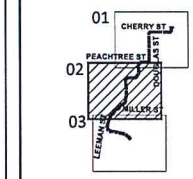


Key Map (north)

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

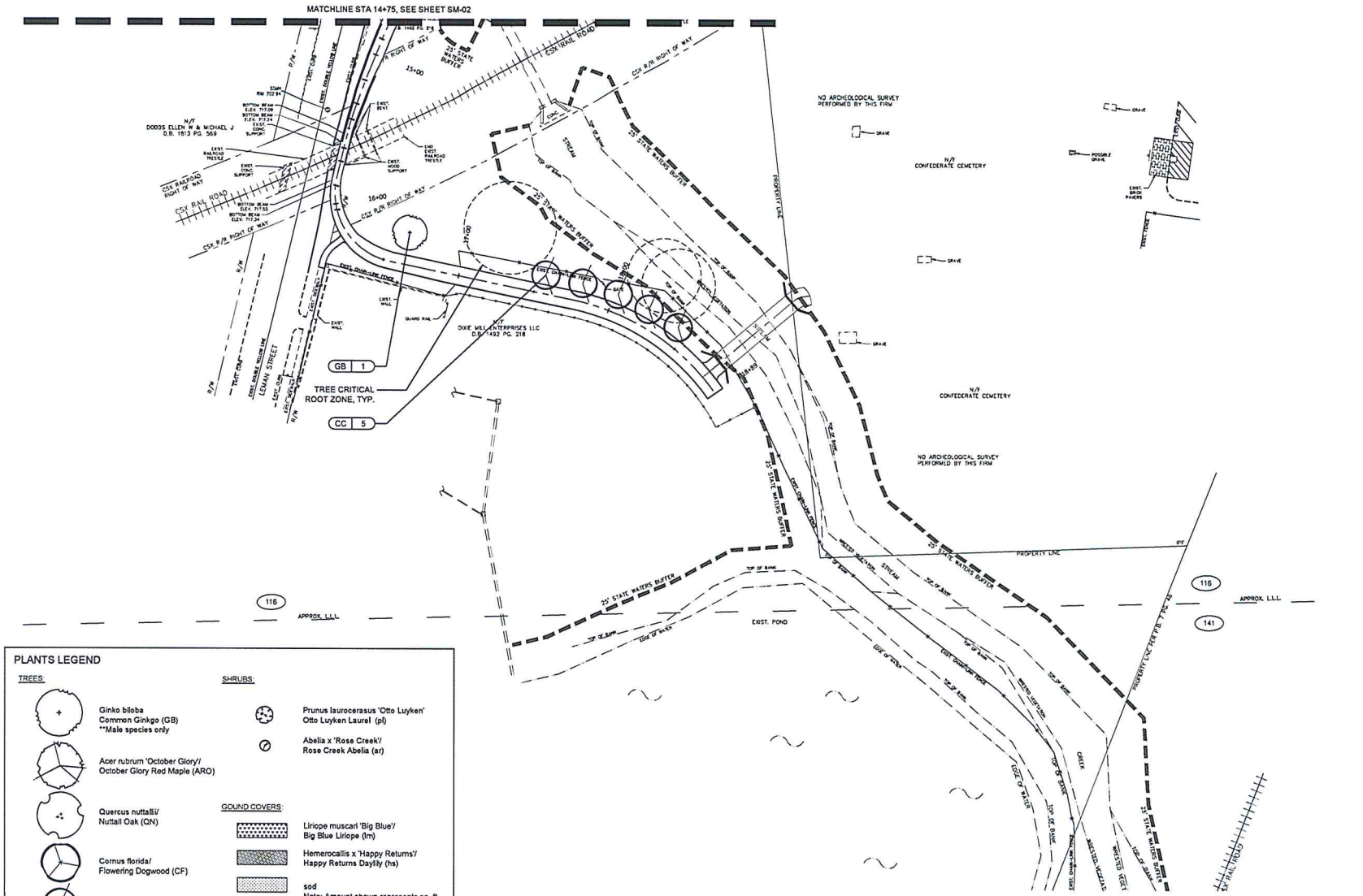
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 31474 PROFESSIONAL LANDSCAPE ARCHITECT 11/13/2020

LANDSCAPE PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	LP-02



PLANTS LEGEND

TREES:

- Ginko biloba / Common Ginkgo (GB) / **Male species only
- Acer rubrum 'October Glory'/ / October Glory Red Maple (ARO)
- Quercus nuttallii/ / Nuttall Oak (QN)
- Cornus florida/ / Flowering Dogwood (CF)
- Cercis canadensis/ / Eastern Redbud (CC)
- Amelanchier Arcorea/ / Serviceberry (AA)

SHRUBS:

- Prunus laurocerasus 'Otto Luyken' / Otto Luyken Laurel (pl)
- Abelia x 'Rose Creek'/ / Rose Creek Abelia (ar)

GOUND COVERS:

- Liriope muscari 'Big Blue'/ / Big Blue Liriope (lm)
- Hemerocallis x 'Happy Returns'/ / Happy Returns Daylily (hs)
- sod / Note: Amount shown represents sq. ft.

SHEET NOTES:

1. REFER TO LN-00 FOR PLANTING DETAILS AND FOR PLANT SCHEDULE

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GRAPHIC SCALE (IN FEET) 1 inch = 30 feet

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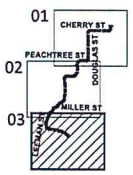


Key Map (north)

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

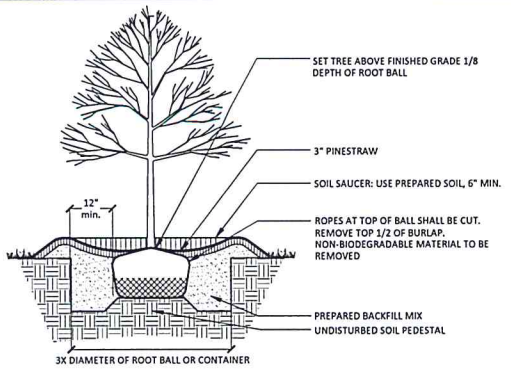
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 31874 11/13/2020

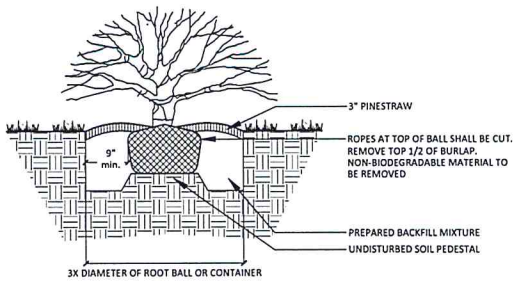
LANDSCAPE PLAN

SCALE	1" = 30' - 0"
DATE	NOVEMBER 13, 2020
SHEET #	LP-03



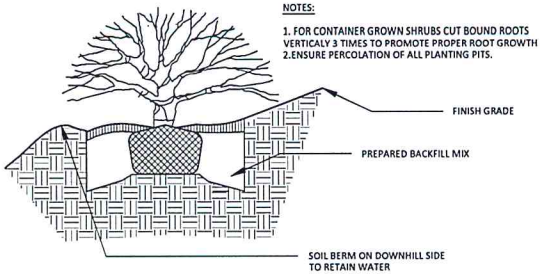
01 LD-01 TREE PLANTING DETAIL
SCALE: 3/4" = 1'-0"

NOTE:
FOR CONTAINER GROWN SHRUBS CUT BOUND ROOTS VERTICALY 3 TIMES TO PROMOTE PROPER ROOT GROWTH

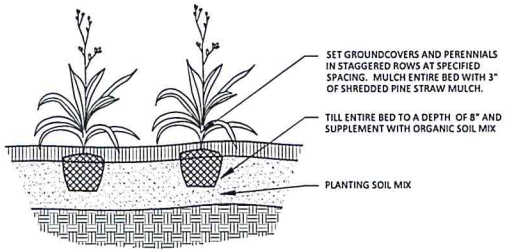


02 LD-01 SHRUB PLANTING DETAIL
SCALE: 1" = 1'-0"

NOTES:
1. FOR CONTAINER GROWN SHRUBS CUT BOUND ROOTS VERTICALY 3 TIMES TO PROMOTE PROPER ROOT GROWTH
2.ENSURE PERCOLATION OF ALL PLANTING PITS.

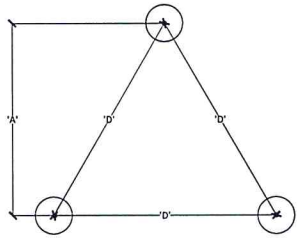


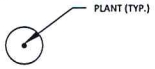
03 LD-01 SHRUB PLANTING DETAIL- ON SLOPE
SCALE: 1" = 1'-0"



04 LD-01 GROUNDCOVER PLANTING DETAIL
SCALE: 1" = 1'-0"

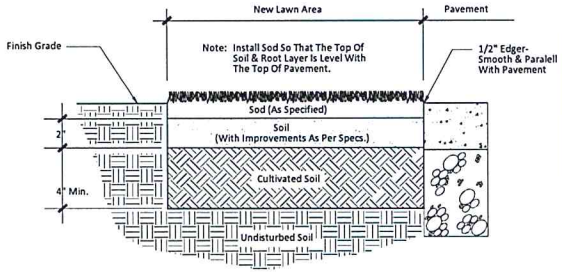
NOTE:
GROUNDCOVERS AND PERENNIALS TO BE INSTALLED WITH TRIANGULAR SPACING.





PLANT SPACING 'D'	ROW 'A'
8" O.C.	7.00" O.C.
10" O.C.	8.5" O.C.
12" O.C.	10.5" O.C.
18" O.C.	15.5" O.C.
24" O.C.	21.0" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

05 LD-01 PLANT SPACING DIAGRAM
SCALE: NTS



Sodding Procedure:
1. Prepare Finish Grade (As Per Specifications)
2. Apply Lime & Fertilizer Roto-till (As Per Soil Test Analysis)
3. Water Area To Be Sodded Prior To Laying Sod.
4. Lay Sod; Roll Sod; & Water Thoroughly.

06 LD-01 TYPICAL SOD PLANTING
NTS

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	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

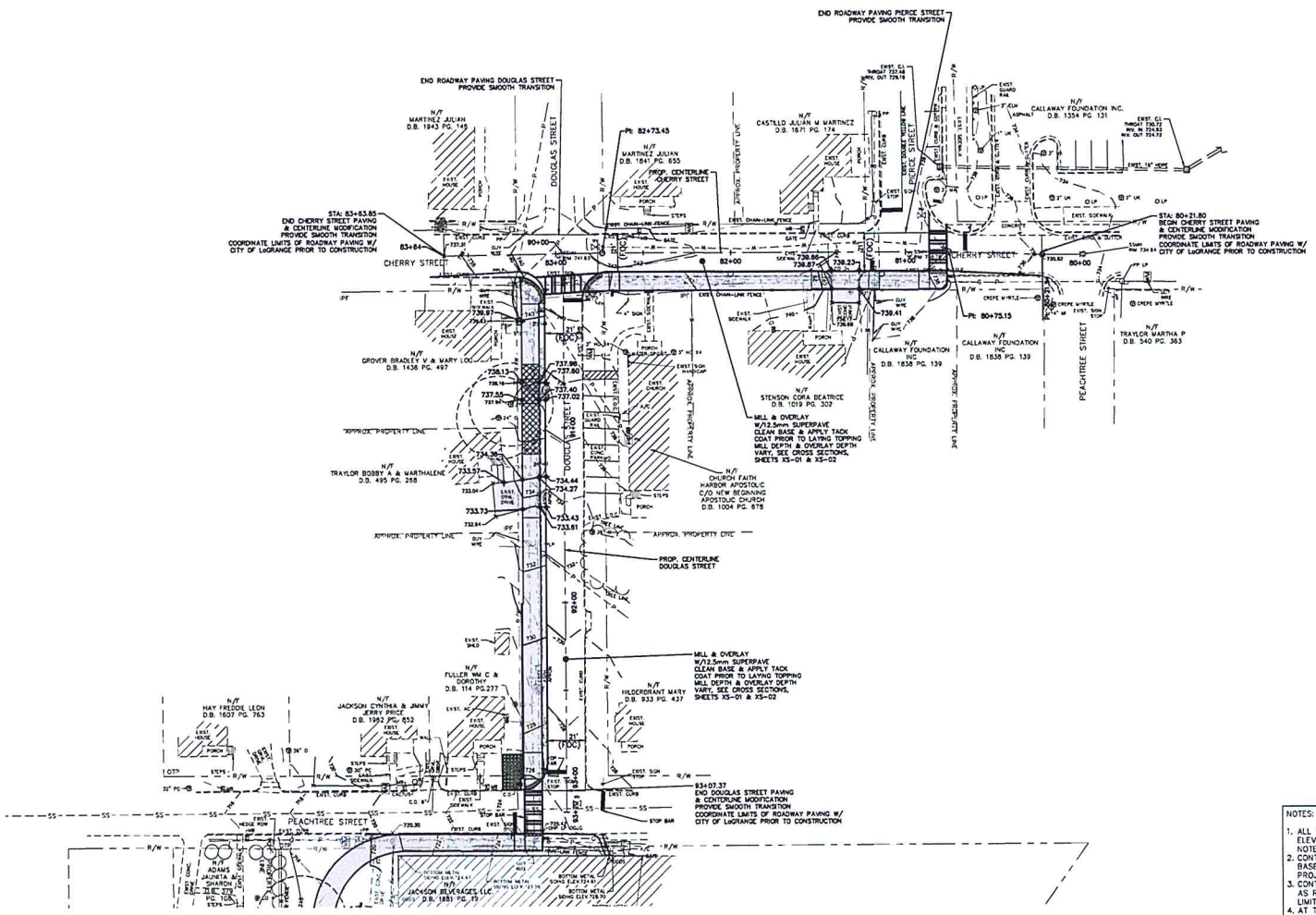
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER 21874 CLAYTON M. ALDRIDGE
11/13/2020

LANDSCAPE DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	LD-01



13285C0141E
THE F.I.R.M. PANEL 13285C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

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NOTES:

1. ALL SPOT ELEVATIONS SHOWN AT CURBS REPRESENT ELEVATION OF GUTTER AT FACE OF CURB UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING ROADWAY BASE AND PAVEMENT THICKNESS AND NOTIFY PROJECT ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO REPAIR ANY DAMAGE TO DRIVEWAYS AS RESULT OF CONSTRUCTION OUTSIDE PROJECT LIMITS.
4. AT TRAIL DRIVEWAY CROSSINGS WHERE THE GRADING FROM THE ROAD GUTTER LINE TO THE FRONT TRAIL EDGE DOES NOT REACH ADJACENT PROPOSED CURB HEIGHT, CONTRACTOR TO RAMP THE TRAIL DOWN TO DRIVEWAY ELEVATION PER CONSTRUCTION DETAIL 2/CD-04.
5. CONC. DRIVEWAY PAVING SPEC:
   6" MIN. 3,000 PSI FIBERMESH CONC.
6. ALL UTILITY MARKERS & COVERS WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO FINISH GRADE. UTILITY COVERS WITHIN ROADWAY SHALL BE FLUSH WITH AND MATCH GRADE OF FINISHED ROADWAY SURFACE.
7. ALL MAILBOXES SHALL BE RELOCATED AND ADJUSTED TO FINISH GRADE. COMPLY WITH USPS MAILBOX GUIDELINES.
8. SEE SIGNING & MARKING PLANS FOR PROPOSED ROADWAY STRIPING.
9. TEMPORARY CONSTRUCTION EASEMENTS REQUIRED FOR ALL WORK OUTSIDE OF RIGHT OF WAY.

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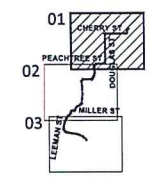


Key Map

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

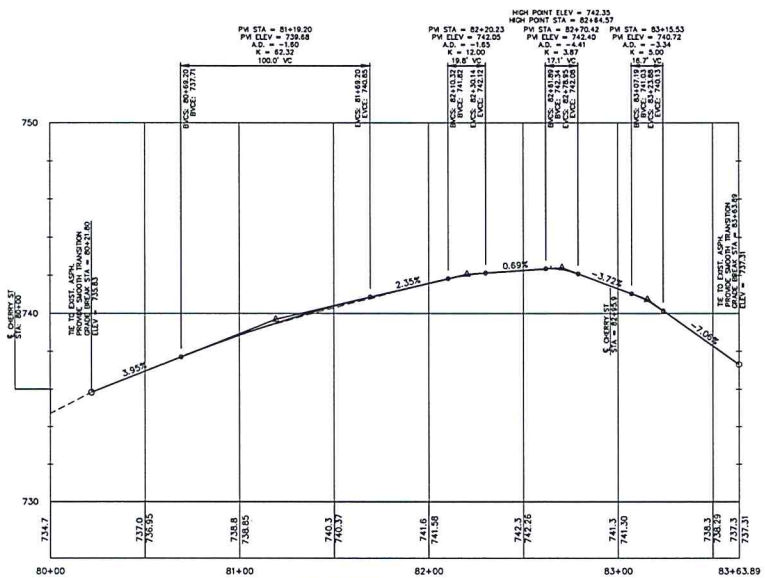
LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 034741 PROFESSIONAL ENGINEER JOHN D. BASS

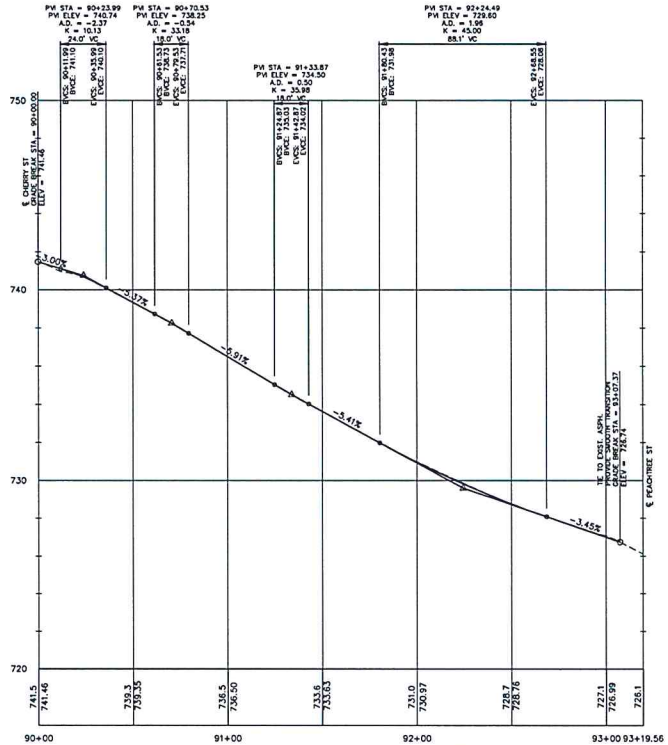
ROADWAY CONSTRUCTION PLAN

SCALE	1" = 30'
DATE	NOVEMBER 13, 2020
SHEET #	RC-01

O:\PROJECT FOLDERS\2019\191\LaGRANGE THREAD-CLOCK TOWER\DWG\191208_SJ-CONST-NORTH END.dwg 11/13/2020 5:15:19 PM



PROP. CENTERLINE CHERRY ST



PROP. CENTERLINE DOUGLAS ST

SCALE:
VERT: 1" = 3'
HORZ: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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FAX (770) 834-1005
E-MAIL: mail@georgiaandwest.com

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 07471 JOHN D. BASS

PROPOSED CENTERLINE PROFILE

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	RP-01

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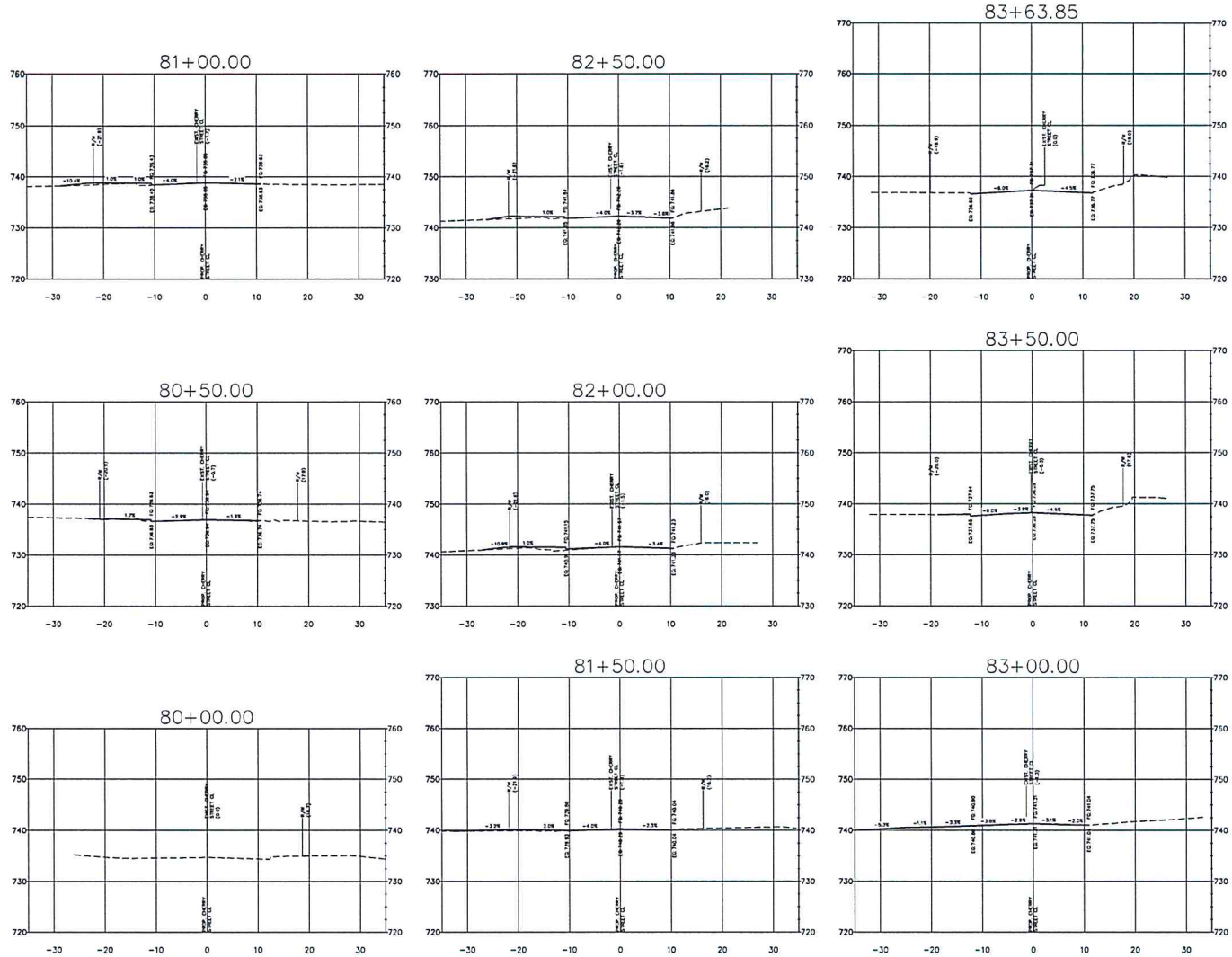

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

SCALE:
VERT: 1" = 10'
HORZ: 1" = 10'

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NOTE: EXISTING GRADE (EG) AND FINISH GRADE (FG) ELEVATIONS IN SECTION VIEWS ARE SHOWN AT PROPOSED GUTTER LINES & CENTERLINE.

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	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

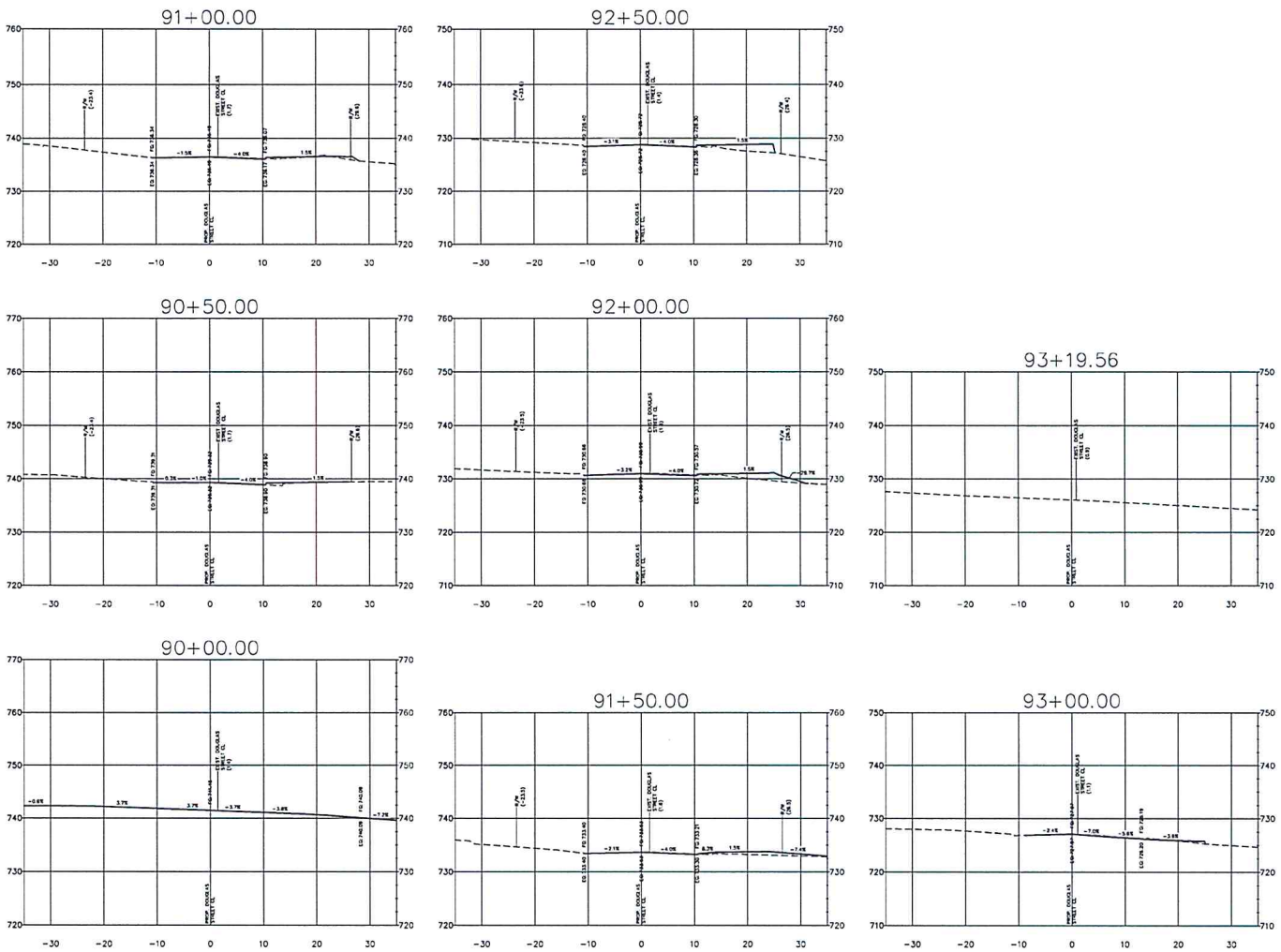
LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 23141 PROFESSIONAL ENGINEER JOHN D. BASS

CHERRY STREET CROSS SECTIONS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	XS-01

G:\PROJECT FOLDERS\2019\191\29_LaGRANGE THREAD\CLOCK TOWER\CHP\191\29_SCONT-NORTH END.dwg 11/13/2020 1:15:48 PM



GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

SCALE:
VERT: 1" = 10'
HORZ: 1" = 10'

GEORGIA811
Utilities Protection Center, Inc.
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NOTE: EXISTING GRADE (EG) AND FINISH GRADE (FG) ELEVATIONS IN SECTION VIEWS ARE SHOWN AT PROPOSED GUTTER LINES & CENTERLINE.

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	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 22471 JOHN D. BASS

DOUGLAS STREET CROSS SECTIONS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	XS-02

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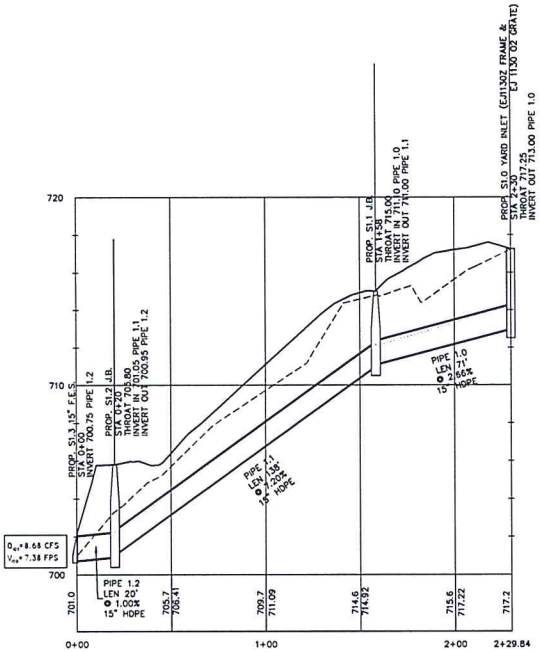
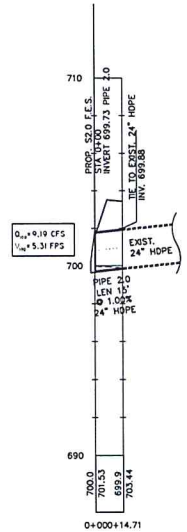
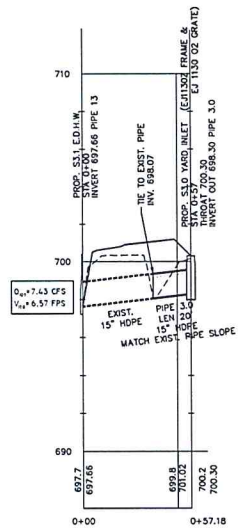


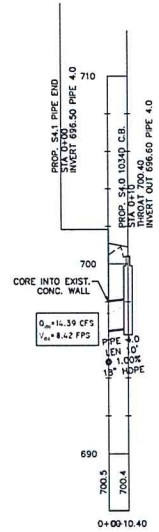
STORM RUN 1



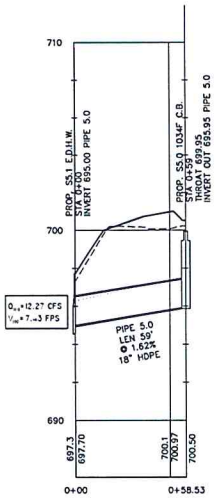
STORM RUN 2



STORM RUN 3



STORM RUN 4



STORM RUN 5

100 YR. STORM EVENT
HYDRAULIC GRADE LINE

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SCALE:
VERT: 1" = 3'
HORZ: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 034741 PROFESSIONAL ENGINEER JOHN D. BASS

STORM SEWER PROFILES

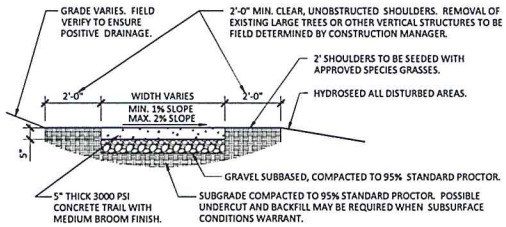
SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	SP-01

G:\PROJECT FOLDERS\2019\191\LaGRANGE THREAD-CLOCK TOWER\DWG\191.DWG, Aug 11/13/2020 1:14:13 PM

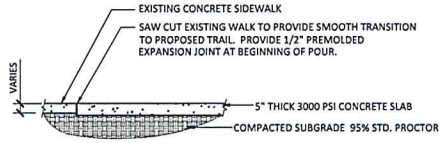
NOTES:
1) 4"x (TRAIL WIDTH) ALTERNATING YELLOW CENTERLINE STRIPING TO BE INSTALLED ALONG ENTIRE LENGTH OF TRAIL CENTERLINE.

2) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 1/4 DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTROL JOINTS TO BE LOCATED THE SAME DISTANCE APART AS THE WIDTH OF TRAIL (I.E. 12' WIDE TRAIL TO HAVE CONTROL JOINTS EVERY 12' ALONG TRAIL). CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.

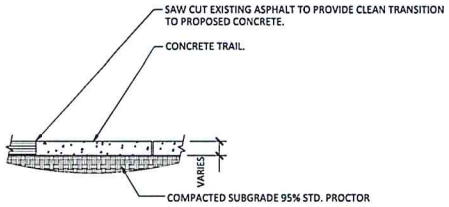
3) EXPANSION JOINTS TO BE LOCATED ALONG TRAIL MIN. EVERY 100' IN PLACE OF CONTROL JOINT.



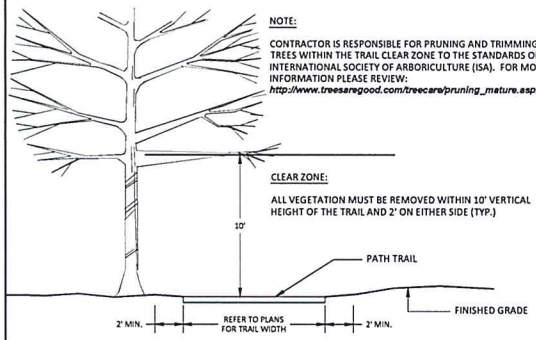
1 CD-01 MULTI-USE TRAIL-CROSS SECTION
SCALE: 1/2" = 1'-0"



2 CD-01 EXISTING WALK/TRAIL TRANSITION
SCALE: 1/2" = 1'-0"



3 CD-01 ASPHALT STREET/TRAIL TRANSITION
SCALE: 1/2" = 1'-0"



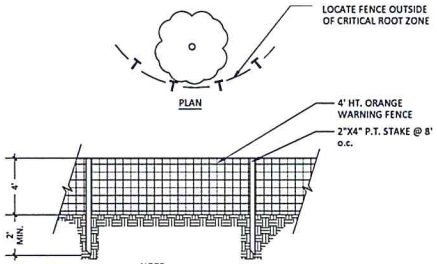
NOTE:

CONTRACTOR IS RESPONSIBLE FOR PRUNING AND TRIMMING TREES WITHIN THE TRAIL CLEAR ZONE TO THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). FOR MORE INFORMATION PLEASE REVIEW:
http://www.treesaregood.com/treecare/pruning_mature.aspx

CLEAR ZONE:

ALL VEGETATION MUST BE REMOVED WITHIN 10' VERTICAL HEIGHT OF THE TRAIL AND 2' ON EITHER SIDE (TYP.)

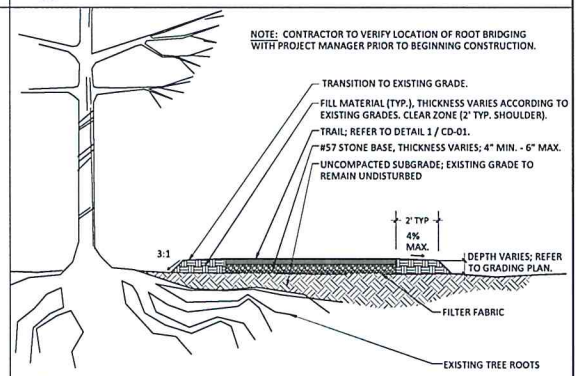
4 CD-01 CLEAR ZONE
SCALE: 1/4" = 1'-0"



NOTE:

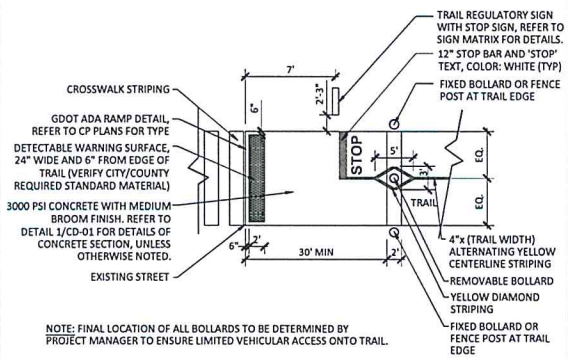
PROVIDE FENCE AS SHOWN ON PLAN. PROVIDE AT LEAST ONE FOOT OF DISTANCE FROM TREE TO FENCE FOR EACH INCH OF TREE DBH, WHERE DBH REFERS TO THE TREE DIAMETER MEASURED AT 4.5' ABOVE THE GROUND.

5 CD-01 TREE PROTECTION FENCE
SCALE: 1/4" = 1'-0"



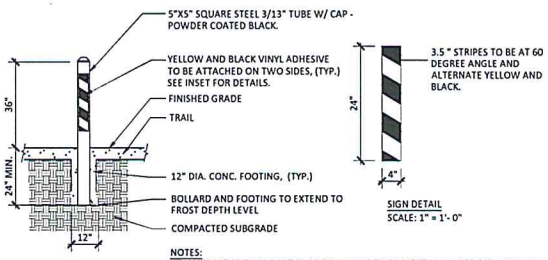
NOTE: CONTRACTOR TO VERIFY LOCATION OF ROOT BRIDGING WITH PROJECT MANAGER PRIOR TO BEGINNING CONSTRUCTION.

6 CD-01 ROOT BRIDGING
SCALE: 1/4" = 1'-0"



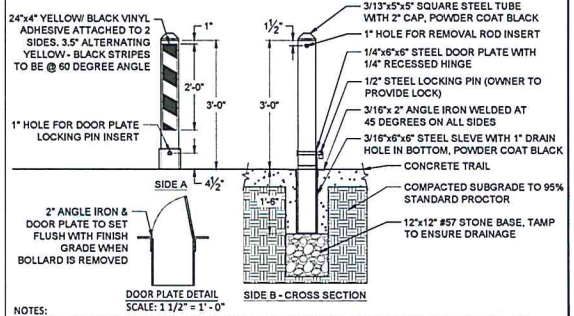
NOTE: FINAL LOCATION OF ALL BOLLARDS TO BE DETERMINED BY PROJECT MANAGER TO ENSURE LIMITED VEHICULAR ACCESS ONTO TRAIL.

7 CD-01 STANDARD INTERSECTION: PLAN VIEW
SCALE: 1/8" = 1'-0"



NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. VINYL ADHESIVE TO BE 3M 3930 HIGH INTENSITY REFLECTIVE VINYL WITH 3M 1160 OVER LAMINATE.
3. ALL BOLLARDS TO BE FIELD LOCATED BY PROJECT MANAGER

8 CD-01 FIXED BOLLARD
SCALE: 1/2" = 1'-0"



NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. ALL METAL TO BE POWDER COATED BLACK UNLESS OTHERWISE SPECIFIED.
3. VINYL ADHESIVE TO BE 3M 3930 HIGH INTENSITY REFLECTIVE VINYL WITH 3M 1160 OVER LAMINATE.
4. ALL BOLLARDS TO BE FIELD LOCATED BY PROJECT MANAGER.

9 CD-01 REMOVABLE DOOR PLATE BOLLARD
SCALE: ¾" = 1'-0"

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DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

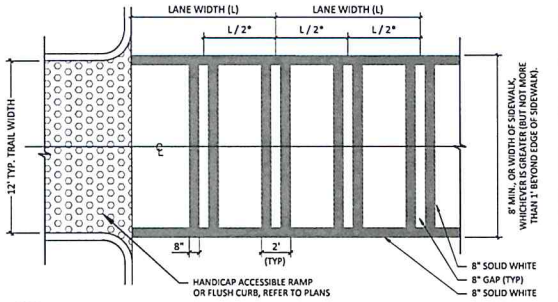
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31674 CHRISTOPHER M. ADDIS
11/13/2020

CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-01

NOTES:
1. ALL CROSSWALK MARKINGS TO BE ALKYO THERMOPLASTIC WITH CLEAN CUT EDGES (TYP.). CONFORM TO GDOT STANDARD SPECIFICATIONS FOR INSTALLATION, COLOR, AND FINISH.

*USE 5' FOR (L / 2) WHEN LANE WIDTH EXCEEDS 12', OR WHERE LANE LINES HAVE BEEN OMITTED.

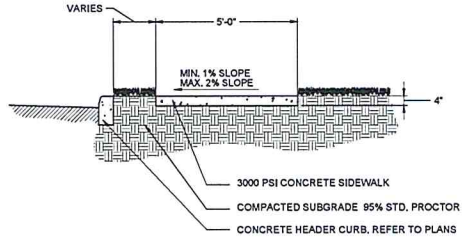


1 CD-02 GDOT CROSSWALK STRIPING
SCALE: 1/4" = 1'-0"

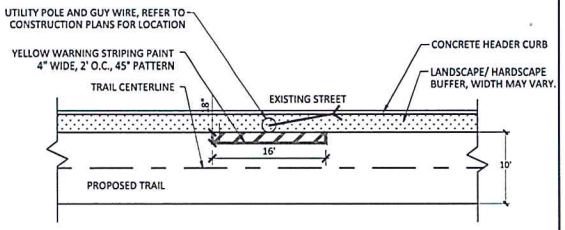
NOTES:

1) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 1/4 DEPTH OF SLAB ACROSS ENTIRE WIDTH OF SIDEWALK. CONTROL JOINTS TO BE LOCATED THE SAME DISTANCE APART AS THE WIDTH OF SIDEWALK (I.E. 5' WIDE SIDEWALK TO HAVE CONTROL JOINTS EVERY 5' ALONG TRAIL). CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.

2) EXPANSION JOINTS TO BE LOCATED ALONG SIDEWALK MIN. EVERY 100' IN PLACE OF CONTROL JOINT AND AT UTILITY STRUCTURES (SUCH AS MANHOLE COVERS) IN SIDEWALK.

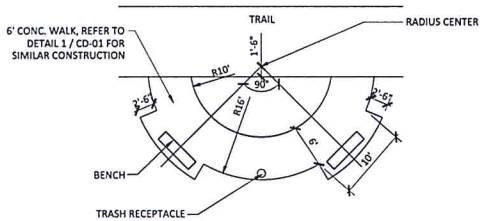


2 CD-02 TYPICAL SIDEWALK
SCALE: 1/2" = 1'-0"



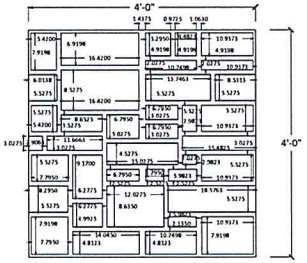
NOTE:
1. ATTACH MUTCD SIGN OM-3L / OM-3R TO OBSTACLE, ONE ON EACH SIDE.
2. PROVIDE AT LEAST 18" OF DISTANCE FROM EDGE OF EXISTING UTILITY POLE TO EDGE OF STRIPING.

3 CD-02 TRAIL NARROWS WARNING STRIPING DETAIL
SCALE: 1/8" = 1'-0"



NOTE:
ALL POCKET PARKS TO BE FIELD LOCATED BY PROJECT MANAGER. REFER TO PLANS FOR GENERAL LOCATION.

4 CD-02 POCKET PARK
SCALE: 1/8" = 1'-0"

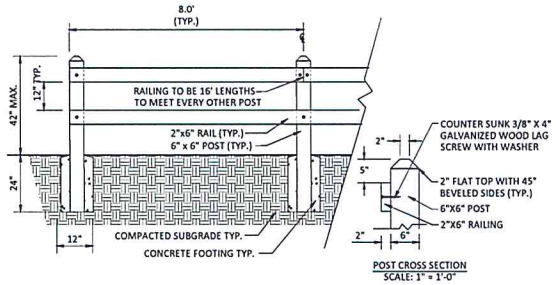


NOTES:
1. THE MORTAR JOINTS ARE ALL AT SAME DEPTH, APPROX. 1-1/4" FROM CENTER OF TIE HOLE.

2. WHERE STONE HITS MORTAR JOINT VARIES DUE TO RANDOM TEXTURE. STONE CAN PROTRUDE OUT FROM MORTAR JOINT ANYWHERE FROM APPROX. 1/8" TO 1/2".

3. THE WIDTHS OF MORTAR JOINTS VARY BETWEEN 1-7/16", 1-3/16", 1-1/16", AND 31/32".

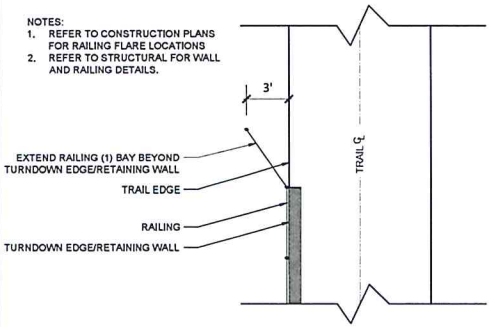
5 CD-02 ASHLAR PATTERN
SCALE: 1" = 1'-0"



NOTES:
1. FENCE TO BE CONSTRUCTED WITH PRESSURE TREATED WOOD.
2. RAILING TO MEET FLUSH WITH OUTSIDE EDGE OF LAST POST.
3. REFER TO CONSTRUCTION PLANS FOR FENCE LOCATIONS.

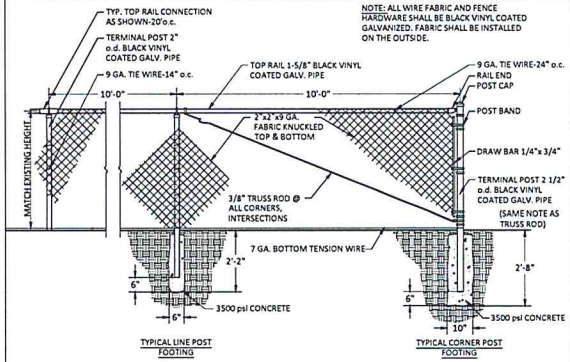
6 CD-02 2 PANEL WOOD FENCE
SCALE: 1/2" = 1'-0"

NOTES:
1. REFER TO CONSTRUCTION PLANS FOR RAILING FLARE LOCATIONS
2. REFER TO STRUCTURAL FOR WALL AND RAILING DETAILS.

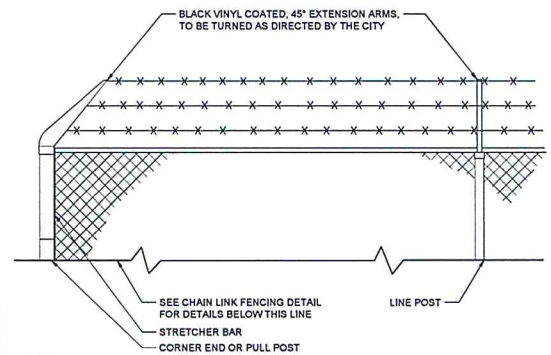


7 CD-02 END RAILING FLARE: PLAN VIEW
SCALE: 1/4" = 1'-0"

NOTE: ALL WIRE FABRIC AND FENCE HARDWARE SHALL BE BLACK VINYL COATED GALVANIZED. FABRIC SHALL BE INSTALLED ON THE OUTSIDE.



8 CD-02 BLACK VINYL COATED CHAIN LINK FENCING
SCALE: 1/2" = 1'-0"



9 CD-02 BARBED WIRE WITH EXTENSION ARMS
SCALE: ¾" = 1'-0"

KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
ENGINEERING LAND SURVEYING LAND PLANNING
155 CORPORATE DRIVE
CARROLLTON, GA. 30117
OFFICE: (770) 834-0994 FAX
(770) 834-1005
E-MAIL: info@georgiaandwest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

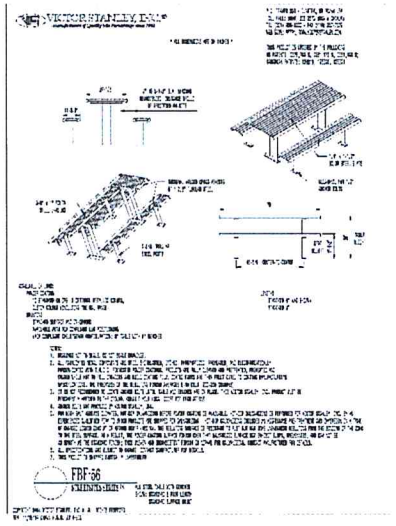
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 31674 PROFESSIONAL ENGINEER ALLEN W. ABBOTT
11/13/2020

CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-02

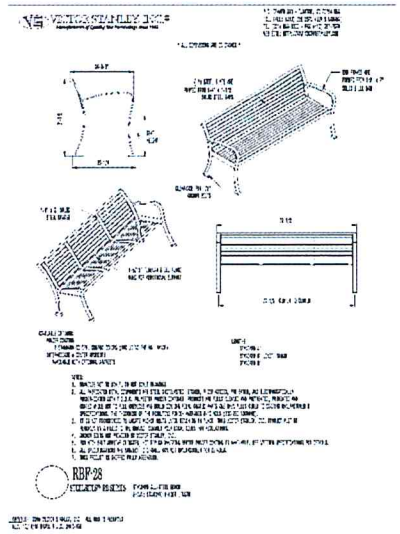
DETAIL NOTE: POWDER COATED BLACK



1 / CD-03 PICNIC TABLE DETAIL

N.T.S

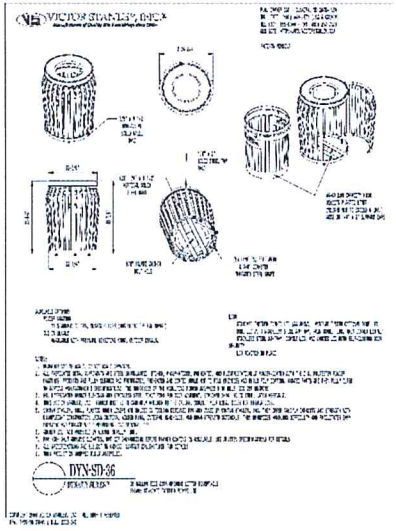
DETAIL NOTE: POWDER COATED BLACK



2 / CD-03 BENCH DETAIL

N.T.S

DETAIL NOTE: POWDER COATED BLACK



3 / CD-03 TRASH RECEPTACLE DETAIL

N.T.S

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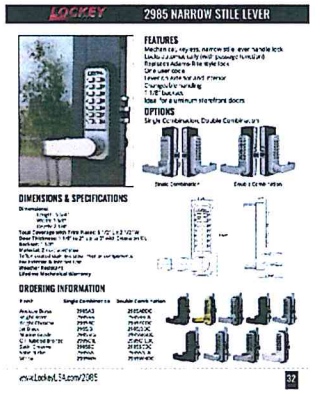

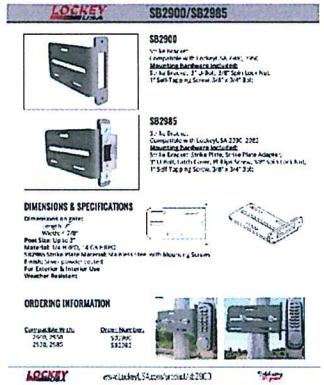

5 / CD-03 GATE LOCK FOR CHAIN LINK FENCE - 3 PRODUCTS

N.T.S

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ENGINEERING LAND SURVEYING LAND PLANNING
155 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-0014 FAX (770) 834-1005
E-MAIL: mail@georgiaandwest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

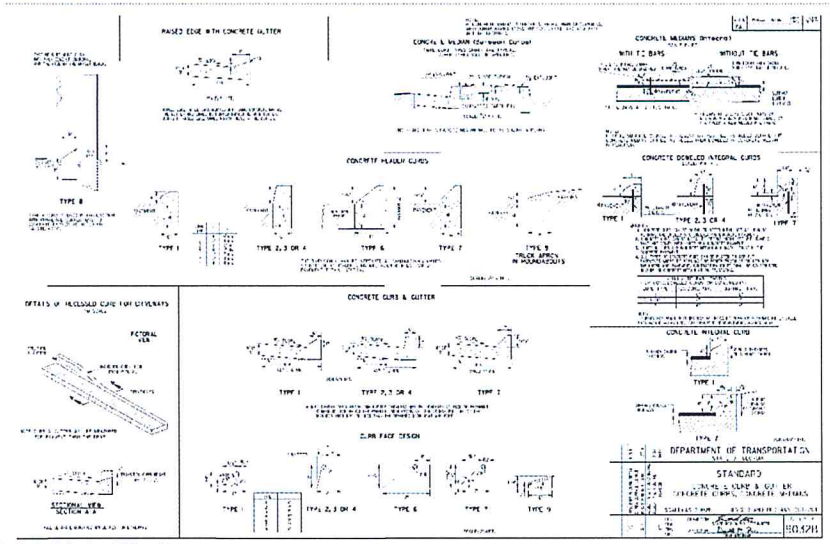
PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31874 11/13/2020

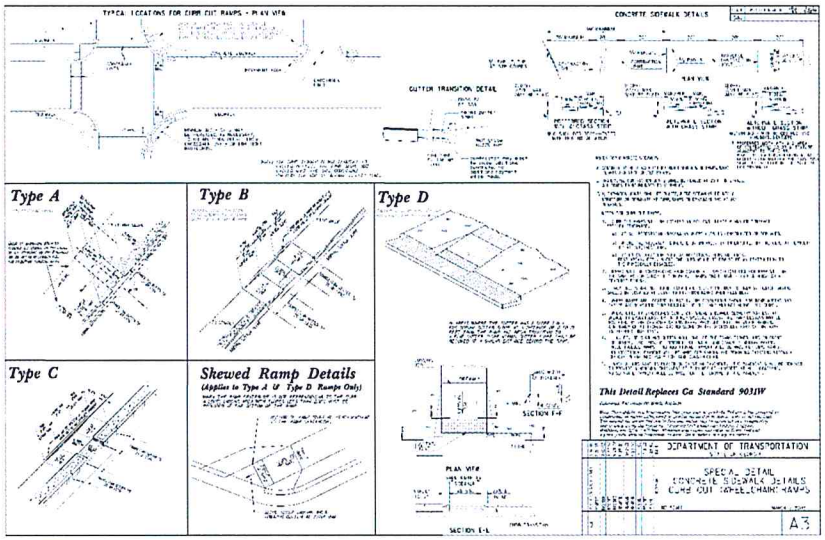
CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-03



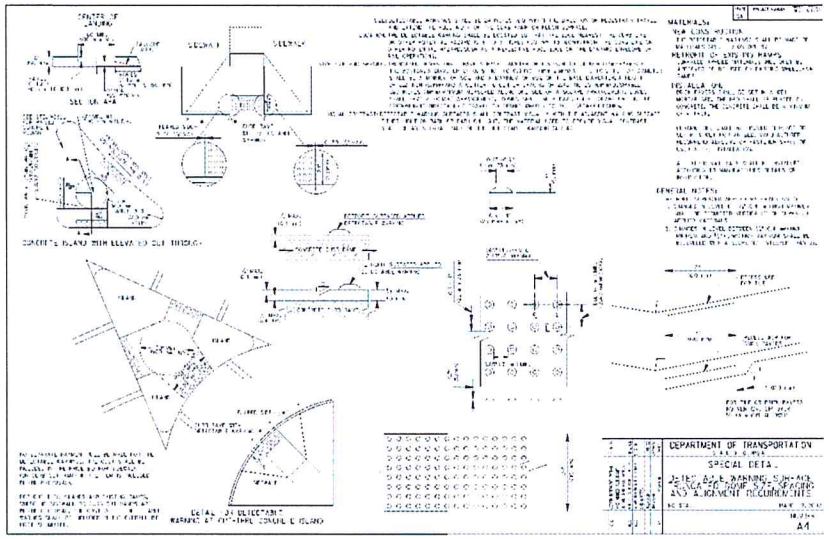
1 CD-04 GDOT STD. CURB DETAIL

N.T.S.



2 CD-04 GDOT ADA RAMPS

N.T.S.



3 CD-04 GDOT DETECTABLE WARNING SURFACE

N.T.S.

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GEORGIA & WEST, INC.
ENGINEERING LAND SURVEYING LAND PLANNING
165 CORPORATE DRIVE
LAGRANGE, GEORGIA 30240
OFFICE (706) 884-8814 FAX
(706) 884-8816
E-MAIL: mailbox@georgiawest.com

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

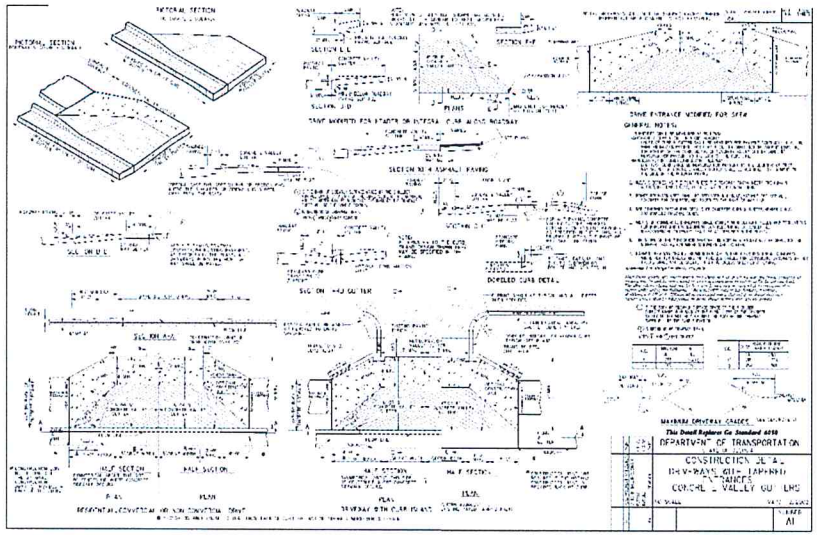
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 03481 JOHN D. BAGGS

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31574 CHARLES M. ABBOTT

11/13/2020

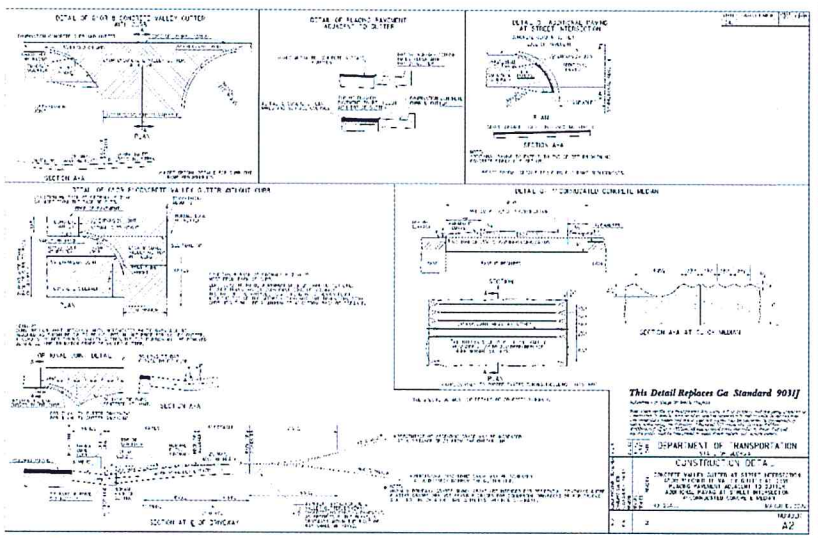
CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-04



1 CD-05 GDOT A1 DRIVEWAY DETAIL

N.T.S



2 CD-05 GDOT A2 CONCRETE VALLEY DETAIL

N.T.S

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2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
ENGINEERING LAND SURVEYING LAND PLANNING
105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-9414 FAX
(770) 834-3105
E-MAIL: rwilson@georgiawest.com

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

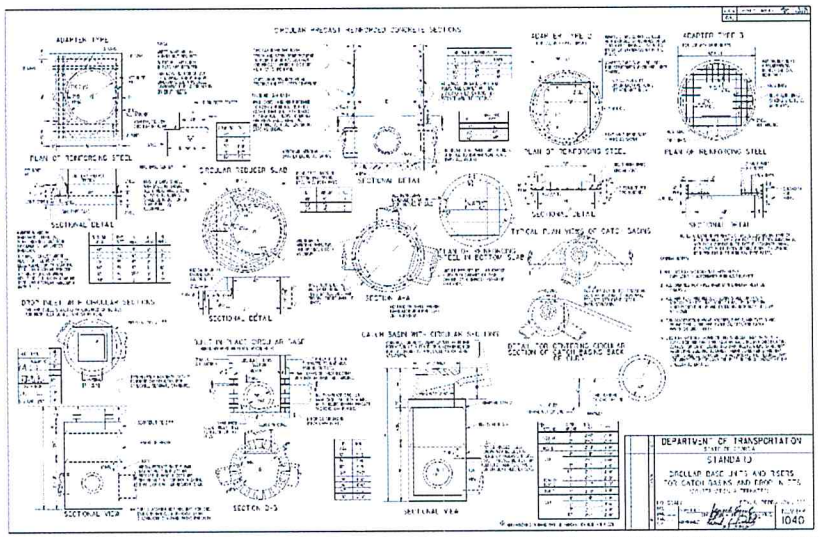
LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED No. 034891 PROFESSIONAL ENGINEER JOHN D. BAGG

GEORGIA REGISTERED No. 31974 PROFESSIONAL LAND SURVEYOR JAMES M. ABBOTT 11/13/2020

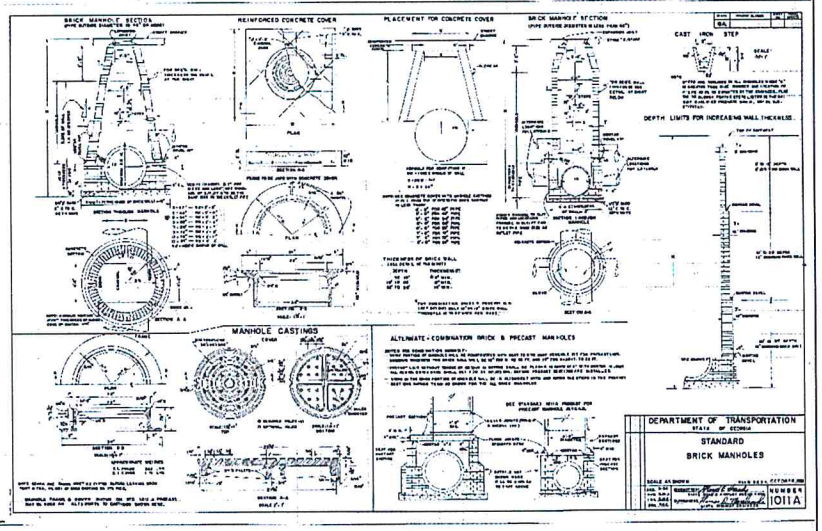
CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-05



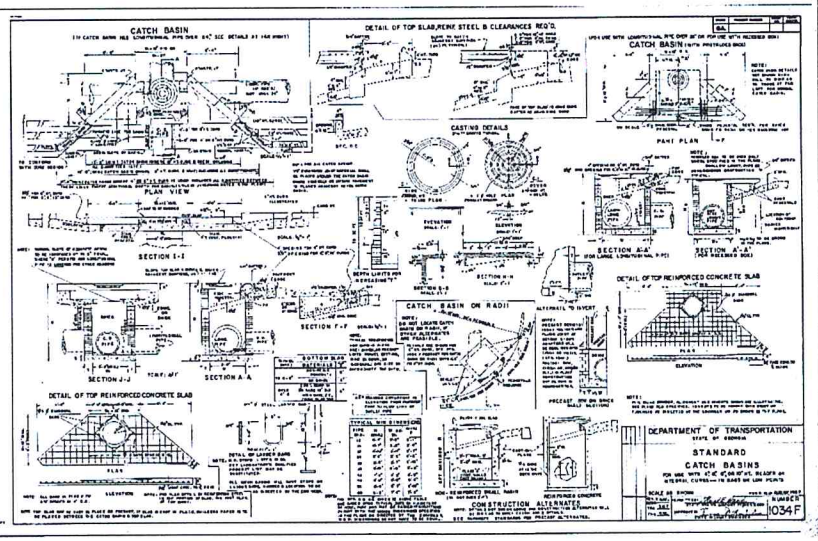
1 CD-06 GDOT CATCH BASIN AND DROP INLET: CIRCULAR BASE DETAIL

N.T.S



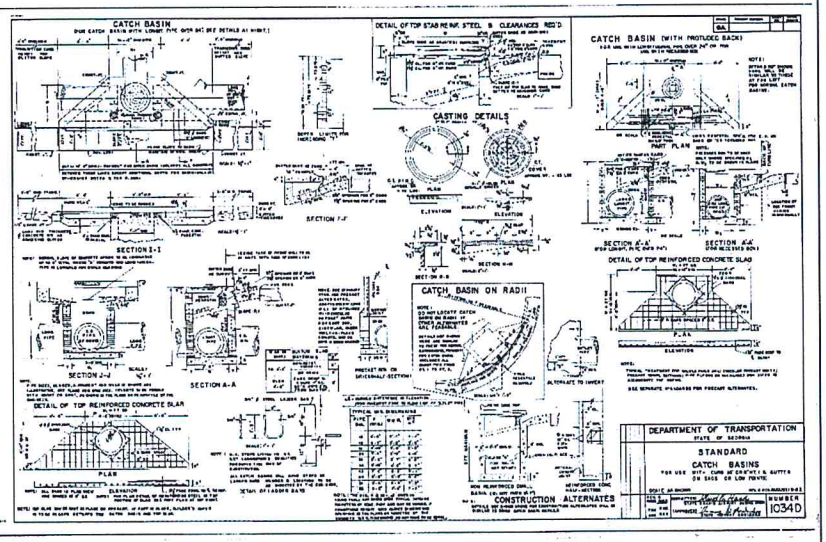
2 CD-06 GDOT BRICK MANHOLES DETAIL

N.T.S



1 CD-06 GDOT CATCH BASIN DETAIL 1034F

N.T.S



2 CD-06 GDOT CATCH BASIN DETAIL 1034D

N.T.S

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105 CORPORATE DRIVE
LAGRANGE, GEORGIA 30240
OFFICE (706) 882-8814 FAX
(706) 884-5600
E-MAIL: mail@georgiaandwest.com

DATE	DESCRIPTION
11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

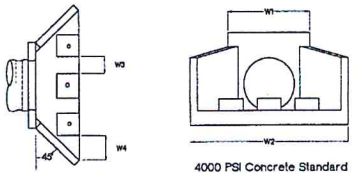
GEORGIA REGISTERED No. EM001 PROFESSIONAL ENGINEER DONALD D. BASS

GEORGIA REGISTERED No. 3124 PROFESSIONAL ARCHITECT CHRISTIS M. ABBOTT 11/13/2020

CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-06

NOTE:
1. APPROVED EQUAL PRODUCT ALLOWED



4000 PSI Concrete Standard

Dimensions: Headwall With Dissipators							
Inside Diameter of Pipe	W1	W2	W3	W4	Block Length x Width	Block Height	# Of Deflector Blocks
12"	2'-6"	3'-9"	N/A	N/A	N/A	N/A	N/A
15" and 18"	3'-2"	4'-6"	6"	6"-9" Varies	12" x 12"	6"	1
24"	4'-7"	6'-3"	6"	6"-9" Varies	12" x 12"	6"	3
30" and 36"	4'-8"	8'-8"	6"	6"-9" Varies	12" x 12"	6"	3
42" and 48"	5'-8"	10'-11"	6"	6"-9" Varies	12" x 12"	6"	5
54" and 60"	6'-5"	12'-5"	6"	6"-9" Varies	12" x 12"	6"	7
66" and 72"	8'-5"	13'-5"	6"	6"-9" Varies	12" x 12"	6"	9
78", 84", 90", 96"	10'-2"	15'-10"	6"	6"-9" Varies	12" x 12"	6"	11

See Helpful Hints #4 Page 22 in front of catalog for advice on choosing correct size headwall.

PRODUCTS FOLEY COMPANY
315 JEFFERSON STREET
NEWNAN, GEORGIA 30263
(770) 251-4181

Precast Concrete Headwalls with Dissipaters

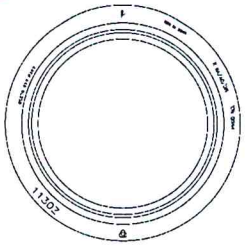
SECTION	STORM-SQUARE	DATE 01-24-02	REVISION
SCALE NTS		DRAWN BY DRM	PAGE # 3-31

1 CD-07 PRECAST CONCRETE HEADWALL WITH DISSIPATORS DETAIL

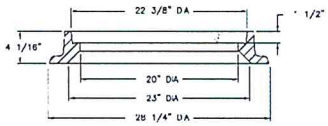
N.T.S

NOTE:
1. APPROVED EQUAL PRODUCT ALLOWED

1130Z Frame



PLAN VIEW



FRAME SECTION

ej

Product Number
00113010
Design Features
-Material:
-Grey Iron (GL310)
-Design Load:
-Heavy Duty
-Clean Area:
-Any
-Locking:
-Bolted
- Designs are Standard Surface

Certification
- ASTM A48
-
- Country of Origin USA

Drawing Revision
04/24/2003 Designer: MPR
07/18/2016 Reviewed By: DVD

Disclaimer
[illegible]

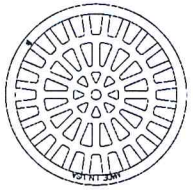
Contact
[illegible]

2 CD-07 MANHOLE FRAME DETAIL

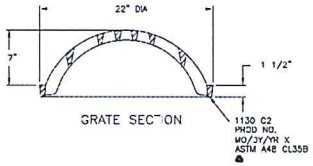
N.T.S

NOTE:
1. APPROVED EQUAL PRODUCT ALLOWED

1130O2 Grate



PLAN VIEW



GRATE SECTION

ej

Product Number
00113045
Design Features
-Material:
-Grey Iron (GL310)
-Design Load:
-Heavy Duty
-Clean Area:
-Any
-Locking:
-Bolted
- Designs are Standard Surface

Certification
- ASTM A48
-
- Country of Origin USA

Drawing Revision
04/24/2003 Designer: MPR
07/18/2016 Reviewed By: DVD

Disclaimer
[illegible]

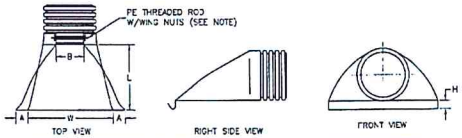
Contact
[illegible]

1 CD-07 MANHOLE COVER DETAIL

N.T.S

NOTE:
1. APPROVED EQUAL PRODUCT ALLOWED

FLARED END SECTIONS



PART #	PIPE SIZE	A	B (MAX)	H	L	W
1210NP	12 in (300 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)
1510NP	15 in (375 mm)	6.50 in (165 mm)	10.00 in (254 mm)	6.50 in (165 mm)	25.00 in (635 mm)	29.00 in (737 mm)
1810NP	18 in (450 mm)	7.50 in (191 mm)	15.00 in (381 mm)	6.50 in (165 mm)	32.00 in (813 mm)	35.00 in (889 mm)
2410NP	24 in (600 mm)	7.50 in (191 mm)	18.00 in (457 mm)	6.50 in (165 mm)	36.00 in (914 mm)	45.00 in (1143 mm)
3012NP	30 in (750 mm)	10.50 in (267 mm)	N/A	7.00 in (178 mm)	53.00 in (1346 mm)	68.00 in (1727 mm)
3612NP	36 in (900 mm)	10.50 in (267 mm)	N/A	7.00 in (178 mm)	53.00 in (1346 mm)	68.00 in (1727 mm)

NOTE: PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24". 30" & 36" END SECTIONS TO BE WELDED TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.

NOTE: ALL DIMENSIONS ARE NOMINAL

ADS

DRAWN BY DRM	10.07.02	APPROVED BY DRM	10.07.02
DRAWING # 6072			

REVISIONS	
BY	DATE

2 CD-07 FLARED END SECTION

N.T.S

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GEORGIA & WEST, INC.
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100 CORPORATE DRIVE
CARROLLTON, GA 30117
E-MAIL: [illegible]@georgiawestinc.com
OFFICE: (770) 834-9014 FAX
(770) 834-1005

	DATE	DESCRIPTION
	11/13/2020	100% ISSUE FOR PERMIT

PROJECT #	2019-191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7
CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 24401 KENNETH D. BASS

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 31674 CHARLES M. ABBOTT
11/13/2020

CONSTRUCTION DETAILS

SCALE	AS SHOWN
DATE	NOVEMBER 13, 2020
SHEET #	CD-07

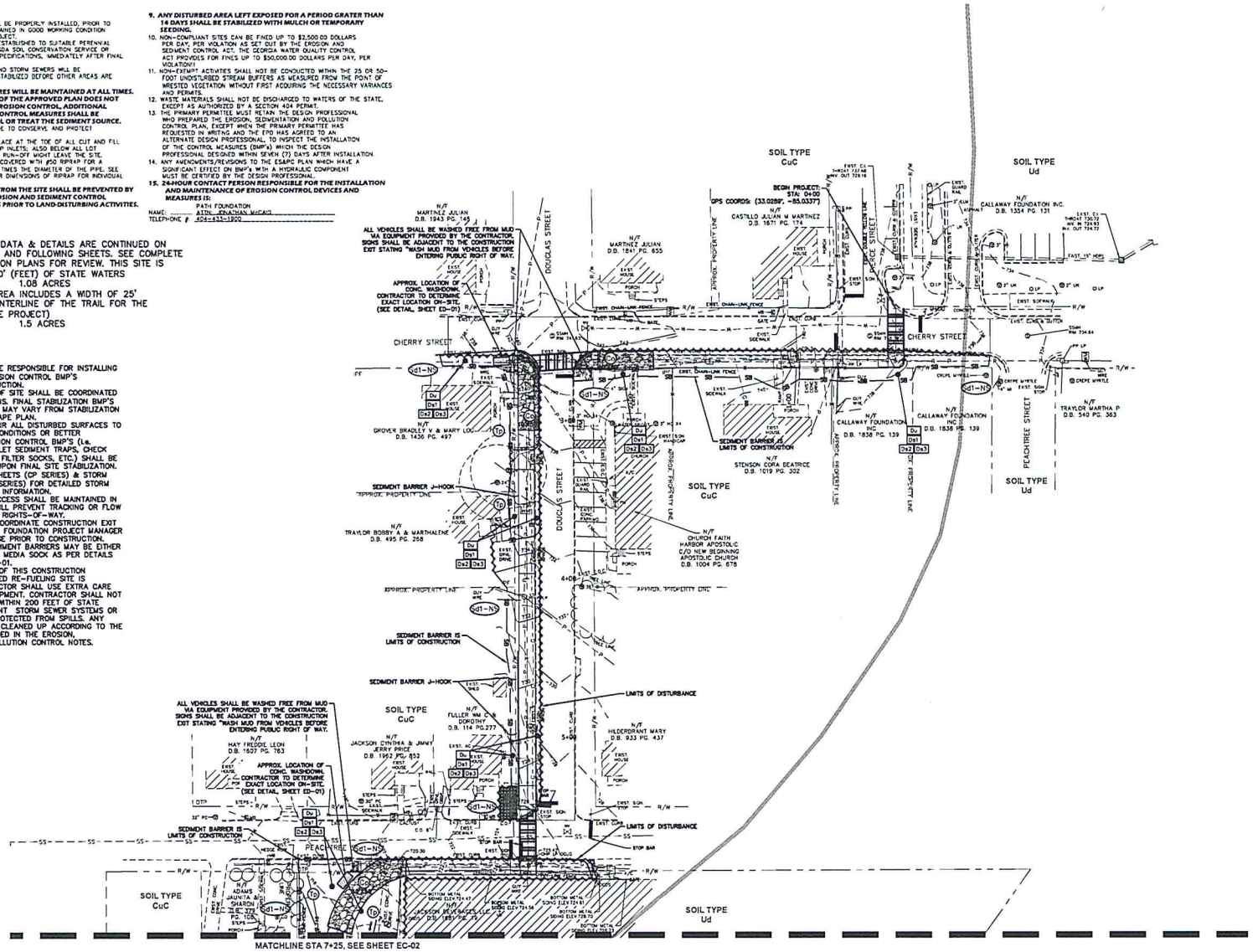
EROSION CONTROL NOTES:

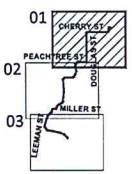
1. EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
2. ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
3. STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
4. ***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.***
5. EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
6. SEDIMENT BARRIERS WILL BE PLACE AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS; ALSO BELOW ALL LOT DISTURBANCES WHERE EROSIVE RUN-OFF MIGHT LEAVE THE SITE.
7. ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR DIMENSIONS OF RIPRAP FOR INDIVIDUAL OUTLETS.
8. ***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.***
9. ***ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.***
10. NON-COMPLIANT SITES CAN BE FINED UP TO $2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO $50,000.00 DOLLARS PER DAY, PER VIOLATION!!
11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
12. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
13. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP's) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
14. ANY AMENDMENTS/REVISIONS TO THE ESAPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
15. ***24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:***

PATH FOUNDATION
NAME: _____ ATTN: JONATHAN McCAIG
TELEPHONE #: 404-433-1900

NOTE:
*EROSION CONTROL DATA & DETAILS ARE CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS LOCATED WITHIN 200' (FEET) OF STATE WATERS
TOTAL SITE AREA 1.08 ACRES
(TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL FOR THE LENGTH OF THE PROJECT)
DISTURBED AREA 1.5 ACRES

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL BMP'S THROUGHOUT CONSTRUCTION.
2. FINAL STABILIZATION OF SITE SHALL BE COORDINATED WITH LANDSCAPE PLANS. FINAL STABILIZATION BMP'S SHOWN ON THIS PLAN MAY VARY FROM STABILIZATION PROPOSED IN LANDSCAPE PLAN.
3. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER
4. ALL TEMPORARY EROSION CONTROL BMP'S (i.e. SEDIMENT BARRIER, INLET SEDIMENT TRAPS, CHECK DAMS, MULCH BERMS, FILTER SOCKS, ETC.) SHALL BE REMOVED FROM SITE UPON FINAL SITE STABILIZATION.
5. SEE MAINLINE PLAN SHEETS (CP SERIES) & STORM SEWER PROFILES (SP SERIES) FOR DETAILED STORM DRAINAGE AND PIPING INFORMATION.
6. ALL CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY.
9. CONTRACTOR SHALL COORDINATE CONSTRUCTION EXIT LOCATIONS WITH PATH FOUNDATION PROJECT MANAGER AND CITY OF LaGRANGE PRIOR TO CONSTRUCTION.
10. Sd1-S & Sd1-NS SEDIMENT BARRIERS MAY BE EITHER SILT FENCE OR FILTER MEDIA SOCK AS PER DETAILS SHOWN ON SHEET ED-01.
11. DUE TO THE NATURE OF THIS CONSTRUCTION PROJECT, A DESIGNATED RE-FUELING SITE IS IMPRACTICAL. CONTRACTOR SHALL USE EXTRA CARE WHEN REFUELING EQUIPMENT. CONTRACTOR SHALL NOT RE-FUEL EQUIPMENT WITHIN 200 FEET OF STATE WATERS. ANY ADJACENT STORM SEWER SYSTEMS OR DITCHES SHALL BE PROTECTED FROM SPILLS. ANY SPILL MADE MUST BE CLEANED UP ACCORDING TO THE REQUIREMENTS PROVIDED IN THE EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES.





Key Map

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN D. BASS
LEVEL I CERT. #17788
EXPIRES: 02-24-2021

EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	NOVEMBER 13, 2020
SHEET #	EC-01

KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
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100 CORPORATE DRIVE
CARROLLTON, GEORGIA 30117

OWNER/DEVELOPER (PRIMARY PERMITTEE)
CITY OF LaGRANGE
ATTN: MEG KELSEY
200 RIDLEY AVENUE
LaGRANGE, GA 30240
706-883-2016
mkelsey@lagrangega.org

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

132850C0141E
THE F.I.R.M. PANEL 132850C0141E DATE 07/03/2012 INDICATES THIS PROPERTY OR A PORTION IS NOT LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.

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

CONSTRUCTION MANAGEMENT
PATH FOUNDATION
JONATHAN McCAIG - 24 HOUR CONTACT
GA GSWCC LEVEL 1 CERTIFICATION # 58893
EXP. 08/17/2021
office 404-875-7284 x5 cell 404-433-1900

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EROSION CONTROL NOTES:

1. EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
2. ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
3. STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
4. ***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.***
5. EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
6. SEDIMENT BARRIERS WILL BE PLACE AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS, ALSO BELOW ALL LOT DISTURBANCES WHERE EROSIVE RUN-OFF MIGHT LEAVE THE SITE.
7. ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR DIMENSIONS OF RIPRAP FOR INDIVIDUAL OUTLETS.
8. ***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.***
9. ***ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.***
10. NON-COMPLIANT SITES CAN BE FINED UP TO $2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO $50,000.00 DOLLARS PER DAY, PER VIOLATION!
11. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
12. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
13. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP's) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
14. ANY AMENDMENTS/REVISIONS TO THE ESA/PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
15. ***24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:***

PATH FOUNDATION
NAME: ATTN: JONATHAN McCAIG
TELEPHONE # 404-433-1900

NOTE:
*EROSION CONTROL DATA & DETAILS ARE CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW. THIS SITE IS LOCATED WITHIN 200' (FEET) OF STATE WATERS

TOTAL SITE AREA 1.08 ACRES
(TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL FOR THE LENGTH OF THE PROJECT)
DISTURBED AREA 1.5 ACRES

NOTES:
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3. CONTRACTOR TO REPAIR ALL DISTURBED SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER
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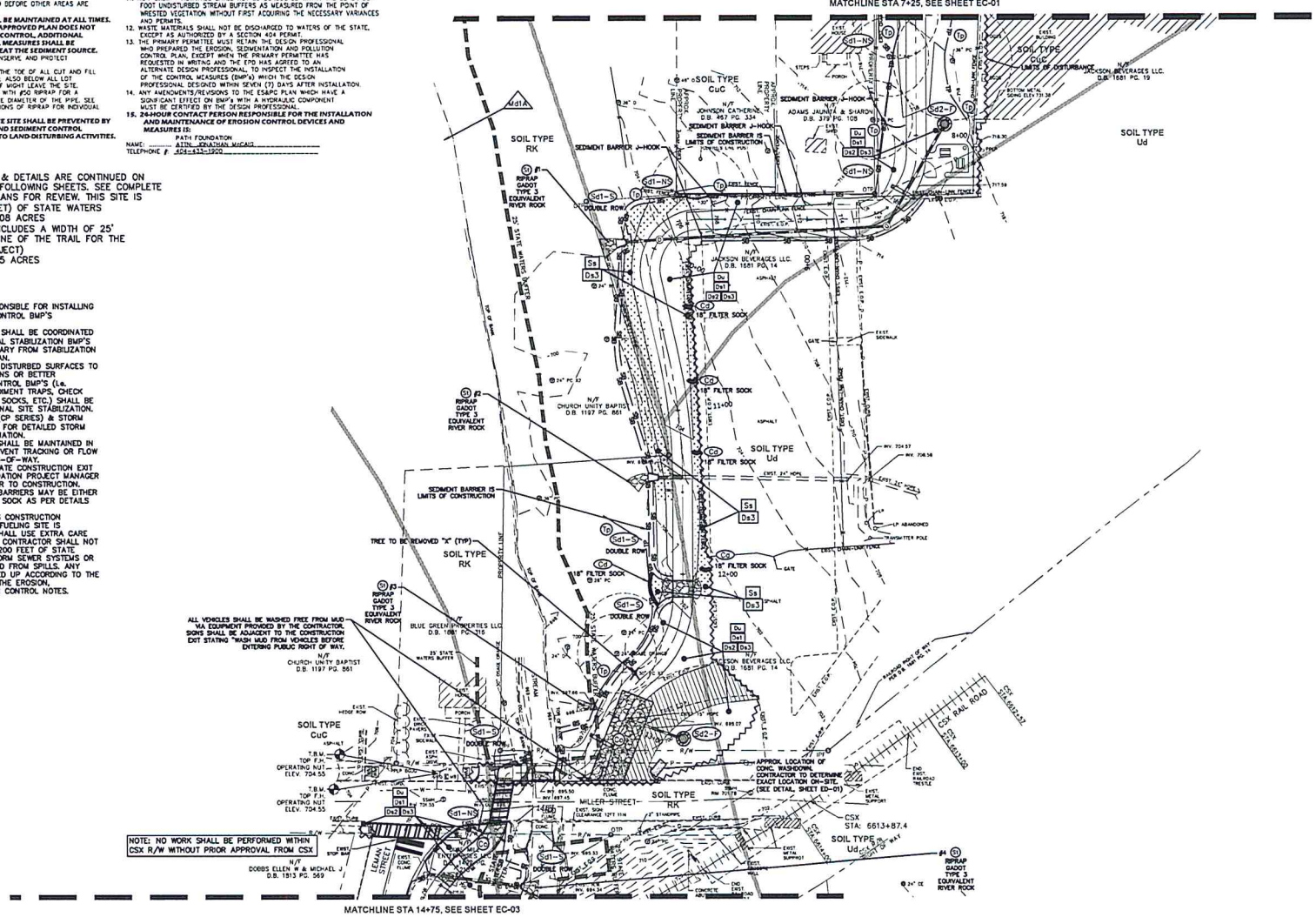

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30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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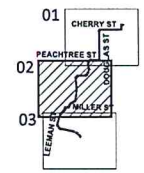

Key Map
north

	DATE	DESCRIPTION

PROJECT # 2019 - 191
PROJECT MANAGER AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN D. BASS
LICENSE # 027788
EXPIRES: 09-29-2021

EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	NOVEMBER 13, 2020
SHEET #	EC-02

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PATH FOUNDATION
NAME: ..... ATTN: JONATHAN McCAIG
TELEPHONE #: 404-433-1900

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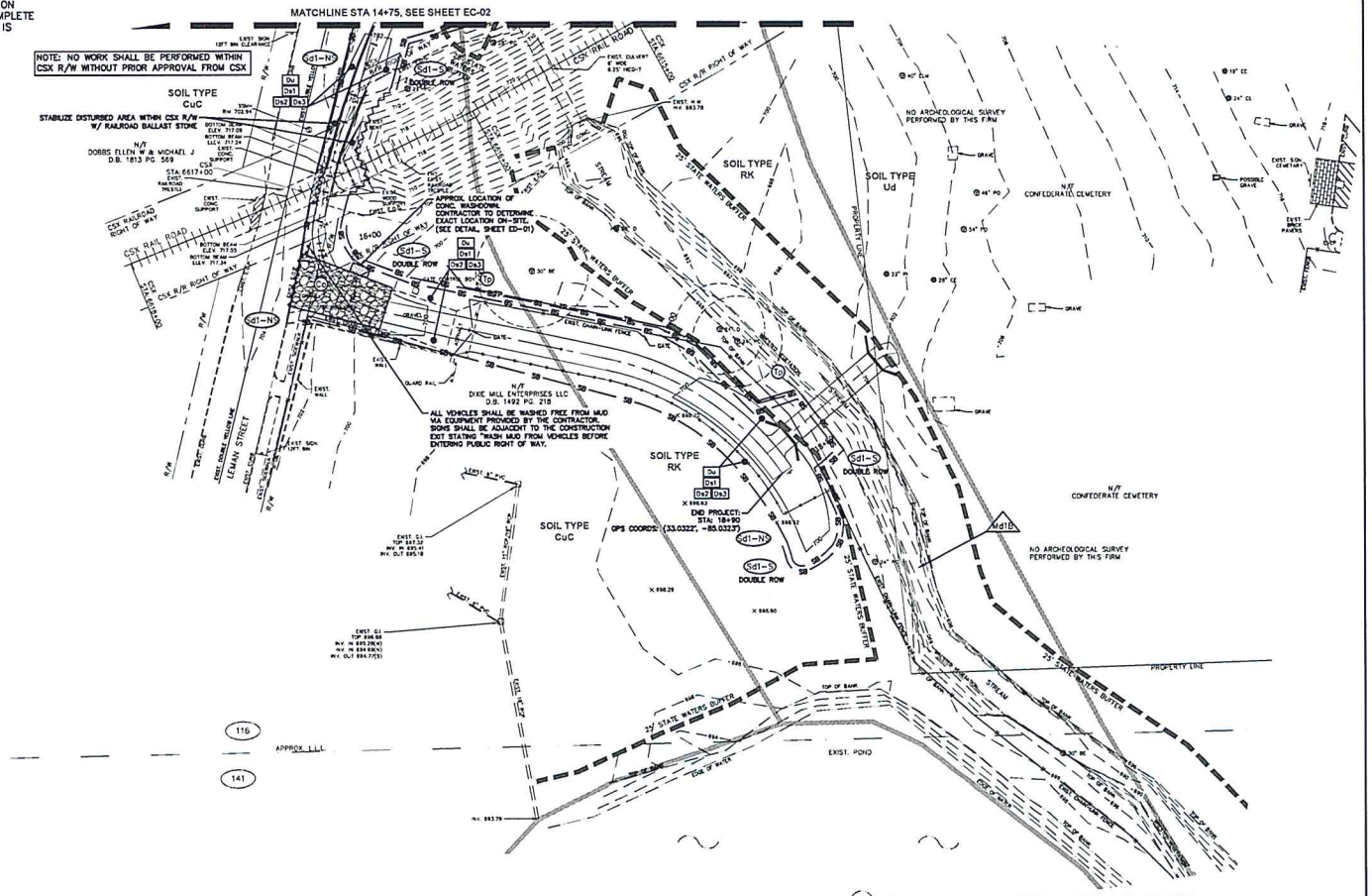

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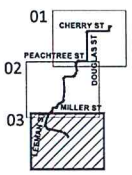


Key Map

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN D. BASS
LEVEL I GSWCC # 17758
EXPIRES: 09-24-2021

EROSION CONTROL PLAN

SCALE	1" = 30'
DATE	NOVEMBER 13, 2020
SHEET #	EC-03

O:\PROJECT FOLDERS\2019\191\08_LAGRANGE THREAD-CLOCK TOWER\DWG\191.08_SC-CONST-NORTH END.dwg, 11/13/2020 1:17:03 PM

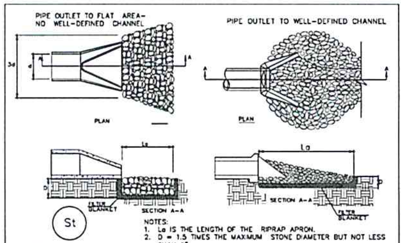


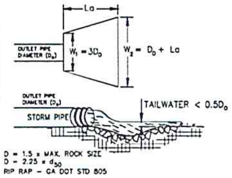
FIGURE 6–24.3
RIPRAP OUTLET PROTECTION

NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 1' ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

TABLE "A"

OUTLET PROTECTION TABLE

STRUCTURE NO.	PIPE SIZE (in)	FLOW Q(cfs)	VELOCITY (fps)	W1 (ft)	W2 (ft)	La (ft)	d_{50} (in)	D (in)
#1	15	8.88	7.38	3.75	10.75	9.5	9	20.25
#2	24	9.19	5.31	6	13.5	11.5	9	20.25
#3	15	7.43	6.57	3.75	10.25	9	9	20.25
#4	18	12.27	7.43	4.5	10.5	9	9	20.25
#5	15	5.61	5.55	3.75	9.25	8	9	20.25



D = 1.5 x MAX. ROCK SIZE
D = 2.25 x d_{50}
RIP RAP – GA DOT STD 805

SEDIMENT STORAGE TABLE

DESCRIPTION	TOTAL DRAINAGE AREA (ACRES)	DIST AREA (ACRES)	REQUIRED STORAGE (CY)	TOTAL STORAGE PROVIDED (CY)	SEDIMENT BARRIER: AVG. DIST FROM TOE OF SLOPE (FT)	SEDIMENT BARRIER: LENGTH OF SILT FENCE (LF)	SEDIMENT BARRIER: TOTAL VOLUME (CY)	CHECK DAMS: L.F. OF APPROX. 1.25% DITCH	CHECK DAMS: STORAGE PER DEVICE (CY)	CHECK DAMS: # OF DEVICES	CHECK DAMS: TOTAL VOLUME (CY)	INLET SEDIMENT TRAP: STORAGE PER DEVICE (CY)	INLET SEDIMENT TRAP: # OF DEVICES	INLET SEDIMENT TRAP: TOTAL VOLUME (CY)
A1	6.9	1.5	462.3	219.6	5	1725	207.6	250	6.5	5	32.5	4	3	12

SAMPLING INFORMATION

MONITORING SITE	LOCATION OF DRAINAGE POINT	NAME OF RECEIVING WATER	SAMPLING TYPE (OUTFALL OR RECEIVING WATER)	TOTAL DRAINAGE AREA (SQUARE MILES)	DIST AREA (ACRES)	WARM OR COLD WATER STREAM	APPENDIX B NTU VALUE*	ALLOWABLE NTU INCREASE	CONSTRUCTION ACTIVITY
Md1A	SEE SHEET EC-01	TRIBUTARY OF OSELIGEE CREEK	RECEIVING WATER	N/A	0.0	WARM	N/A	N/A	TRAIL CONSTRUCTION
Md1B	SEE SHEET EC-01	TRIBUTARY OF OSELIGEE CREEK	RECEIVING WATER	N/A	1.5	WARM	N/A	Md1A+25	TRAIL CONSTRUCTION

* NTU LIMIT TAKEN FROM GENERAL PERMIT GAR100002

SAMPLES TO BE TAKEN BY "GRAB SAMPLES" OR OTHER APPROVED METHOD.
SAMPLES TO BE ANALYZED BY HACH OR OTHER APPROVED METHOD.

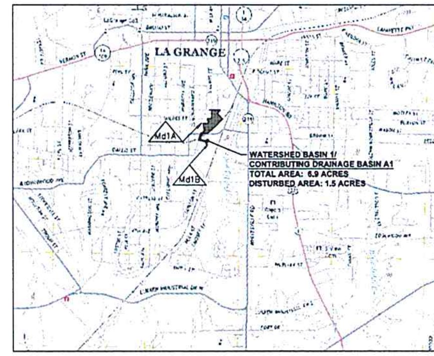
**SEE DRAINAGE/CONTRIBUTING DRAINAGE BASIN MAP, THIS SHEET, FOR MONITORING SITE LOCATIONS. SHOULD THE SAMPLING PROFESSIONAL BELIEVE THE SAMPLING RESULTS ARE NOT REPRESENTATIVE OF THE SITE AND THAT OFFSITE DEVELOPMENTS ARE CONTRIBUTING TO AN INCREASE IN THE NTU LEVEL THE SAMPLING PROFESSIONAL SHALL CONTACT THE EROSION CONTROL DESIGN ENGINEER FOR NEW SAMPLING LOCATIONS.

SEDIMENT BASIN EXEMPTION NOTE:

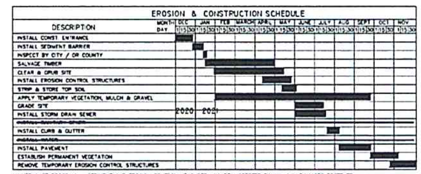
DUE TO THE TYPE OF DEVELOPMENT PROPOSED IN THIS PROJECT AND THE SITE CONDITIONS UPON WHICH THE DEVELOPMENT WILL BE BUILT, NO SEDIMENT STORAGE STRUCTURES ARE PROPOSED. GIVEN THE MINIMAL DISTURBANCE NECESSARY TO CONSTRUCT THE TRAIL, THE ADJACENT PROPERTIES AND ENVIRONMENT WOULD BE NEGATIVELY AFFECTED (ADDITIONAL CLEARING, GRADING, AND OTHER LAND DISTURBING ACTIVITIES) BY THE INSTALLATION OF SEDIMENT STORAGE STRUCTURES FOR A NEGLIGIBLE BENEFIT. PERIMETER CONTROL, INLET SEDIMENT TRAPS, AND CHECK DAMS ARE UTILIZED THROUGHOUT THE SITE IN A EFFORT TO CONTROL EROSION. THE MEASURES SHOWN IN THIS PLAN SHOULD BE SUFFICIENT TO MANAGE EROSION, SEDIMENTATION, AND POLLUTION CONTROL WITHIN THE PROJECT SITE. 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.

SOIL SERIES INTERPRETATIONS

MAP SYMBOL	SOIL SERIES	PERMEABILITY (IN/HR)	SOIL REACTION (PH)	SHRINK-SWELL POTENTIAL	CORROSIVITY: STEEL	CORROSIVITY: CONCRETE	DEPTH TO: WATER TABLE (FT)	DEPTH TO: BEDROCK (FT)	FLOOD FREQUENCY	HYDRO GROUP	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOON AREAS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SMALL COMMERCIAL BUILDINGS	LOCAL ROADS AND STREETS
CeC, CuB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



WATERSHED/CONTRIBUTING DRAINAGE BASIN MAP
SCALE: 1"=2000'



MAINTENANCE PROGRAM. SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATION AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON SITE. SEDIMENT BASINS AND BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

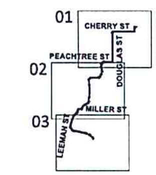
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS
SWCD: WEST GEORGIA

Project Name: LaGRANGE THREAD PHASE 7 CLOCK TOWER TRAIL
Address: GPS: BEGIN (33.0322°, -85.0323) END (33.0289°, -85.0337)
City/County: CITY OF LaGRANGE/TROUP COUNTY
Date on Plans: NOVEMBER 13, 2020
Name & email of person filling out checklist: [illegible]

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N	Item
ED-01	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)
ALL	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. [illegible]
EC-SERIES	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
EC-SERIES	Y	4 [illegible]
EC-SERIES	Y	5 Note total and disturbed acreage of the project or phase under construction.
EC-SERIES	Y	6 Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitude and Longitude in decimal degrees.
ALL	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
EN-01-EN-02	Y	8 Description of the nature of construction activity.
ED-01	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
EN-01	Y	10 [illegible]
EN-01	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan [illegible]
EN-01	Y	12–19 [illegible]
EX-01 … EC-SERIES	Y/N	20–39 [illegible]
N/A … ED-02	Y/N	40–52 [illegible]

Effective January 1, 2020



Key Map
north

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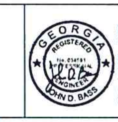
105 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE (770) 834-4694
FAX (770) 834-1005
E-MAIL: mailbox@georgiaandwest.com

DATE	DESCRIPTION

PROJECT # 2019 - 191
PROJECT MANAGER AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA



LEVEL II CERT. #17788
EXPIRES: 09-29-2021

EROSION CONTROL DATA

SCALE N.T.S.
DATE NOVEMBER 13, 2020

SHEET # ED-01

O:\PROJECT FOLDERS\2019\191208_LAGRANGE THREAD-CLOCK TOWER\DWG\191208_X-CONST-NORTH END.dwg, 11/13/2020 5:17:37 PM

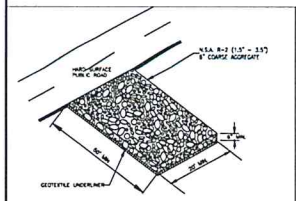
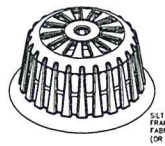


FIGURE 6-11.1
Co CRUSHED STONE CONSTRUCTION EXIT



Sd2 ALTERNATIVE SEDIMENT TRAP

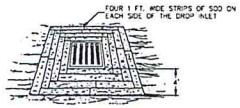


FIG. 6-14.6 - SOD STRIPS PROTECT INLET AREA FROM EROSION (SOURCE VA SWCC)
Sd2-S SOD INLET PROTECTION

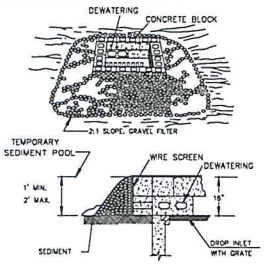
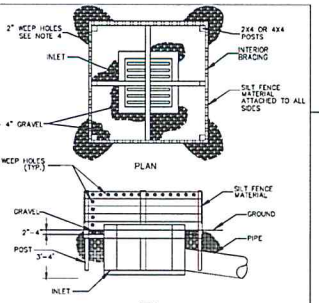


FIGURE 6-21.3
Sd2-Bg BLOCK AND GRAVEL DROP INLET PROTECTION



NOTE:
1. THE SEDIMENT BOX IS TO BE MADE OF 2"x4" BOARDS SPACED A MAXIMUM OF 1" APART ON PLYWOOD WITH 2" WEEP HOLES.
2. DIMENSIONS OF THE DOX WILL VARY ACCORDING TO THE SIZE OF THE INLET AND THE DEPTH OF THE BASIN.
3. PLACE GRAVEL INSIDE OF THE DOX ALL AROUND THE INLET TO A DEPTH OF 2-4".
4. SPACE THE WEEP HOLES APPROXIMATELY 6" O.C. HORIZONTAL WHERE PLYWOOD IS USED.

FIGURE 6-21.2
Sd2-B BAFFLE BOX

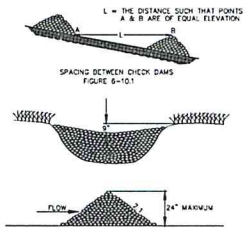
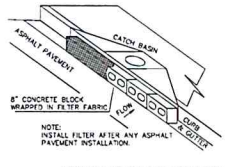


FIGURE 6-10.2
Cd STONE CHECK DAM



NOTE:
INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.

INFORMATION OBTAINED FROM FIGURE 6-21.5
Sd2-P CURB INLET FILTER "PIGS IN BLANKET"

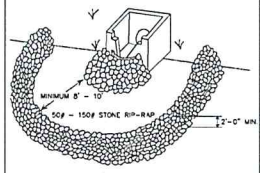


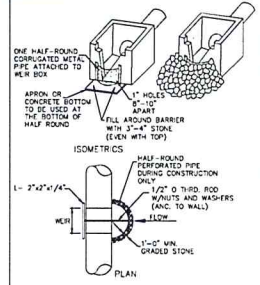
FIGURE 6-15.1
Fr STONE FILTER RING

DISTURBED STABILIZATION (DS1)	
MULCH	PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE. SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED: 1. HAY OR STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION. 2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 2 INCHES. ORGANIC MATERIAL FROM THE SITE MAY BE USED IF IT IS FREE OF SEEDS AND COARSE MATERIAL. THE BE CHOPPED AND APPLIED AS MULCH. USE OF THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS. 3. OUTRACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ YD). 4 POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

TEMPORARY VEGATATIVE PLAN (DS2)				
SPECIES	RATE/ 1000 S.F.	DATES	FERTILIZER	RATE/ 1000 S.F.
MILLET	1-2 LBS	3-15 TO 8-31	8-12-12	25-35 LBS
RYE	2-3 LBS	10-15 TO 2-15	8-12-12	25-35 LBS

PERMANENT GRASSING PLAN (DS3)				
SPECIES	RATE/ 1000 S.F.	DATES	FERTILIZER	RATE/ 1000 S.F.
WEEPING LOVEGRASS & SERICEA LESPEDEZA (SCARIFIED)	2+-4+ LB	3-1 TO 8-15	8-12-12	25-35 LBS
ALL FESCUE GRASS	8-10 LB	8-1 TO 11-1	8-12-12	25-35 LBS
BERMUDA GRASS (HULLED) (UNHULLED)	1-2 LB 2-3 LB	3-15 TO 8-15 10-01 TO 2-15	8-12-12 8-12-12	25-35 LBS 25-35 LBS
STRAW MULCH	90 LB	ANY TIME FOR TEMPORY COVER.		

NOTES:
1. ALL AREAS TO BE SEEDED SHALL HAVE LIME APPLIED AT THE RATE OF 90 LBS PER 1000 S.F. LIME & FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
2. ALL AREAS TO BE SEEDED SHALL HAVE A PROTECTION OF STRAW MULCH. MAINTAIN THIS AFTER GERMINATION OF SEED & FERTILIZER APPROXIMATELY 2 TONS PER ACRE.
3. PERMANENT GRASSING OCT. - JUNE, ALL OTHER MONTHS USE TEMPORARY GRASSING & REPLANT.
4. TEMPORARY GRASSING MEANS IF INACTIVE DISTURBED AREA IS TO BE EXPOSED FOR MORE THAN 14 DAYS.
5. REFER TO TABLE W-5.1.2.3.B & F FOR COMPLETE VEGETATIVE CHART'S AND FERTILIZER REQUIREMENTS.
6. PERMANENT GRASSING FOR FINAL SITE STABILIZATION MUST ACHIEVE A DENSITY OF 70% OR GREATER OVER 100% OF THE DISTURBED AREA.



PERFORATED HALF-ROUND PIPE WITH STONE FILTER
R1 RETROFITTING FIGURE 6-19.1

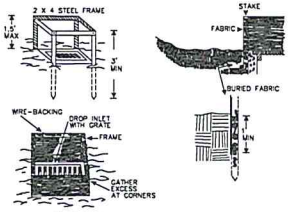


FIGURE 6-21.1
Sd2-F FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

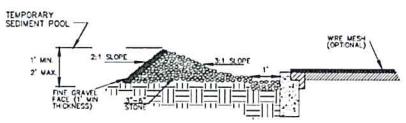
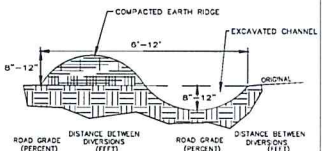


FIGURE 6-21.4
Sd2-G GRAVEL DROP INLET PROTECTION (GRAVEL DONUT)



ROAD GRADE (PERCENT)	DISTANCE BETWEEN DIVERSIONS (FEET)	ROAD GRADE (PERCENT)	DISTANCE BETWEEN DIVERSIONS (FEET)
1	400	10	80
2	250	15	60
5	125	20	50

FIGURE 6-13.1
DI DIVERSION CHANNEL

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 gravel stone pad located at the ingress/egress point of a construction site to provide a place for vehicles to dump their mud before entering public roads.
Cr	CONSTRUCTION ROAD STABILIZATION			A temporary construction road stabilized with aggregate.
Dc	GRASS DRAINAGE CHANNEL			A temporary channel constructed to convey flow around a construction site onto a permanent structure is being constructed.
Di	DIVERSION			An earth channel or ridge located above, behind, 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 water from the top of a slope. This is temporary and transported down.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Ff	FILTER RING			A temporary stone barrier constructed of storm drain inlets and pond outlets.
Gb	GABION			Rock filled baskets which are hand-placed for erosion control and stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or watercourse where otherwise the slope would be sufficient for the running water in long term qualities.
Ls	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 FLOW DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Rw	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rr	RIPRAP STONE			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment trap.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be an existing 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 maximum area left be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by construction or a dam constructed across a stream or drainage ditch to temporarily stand retaining the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that stores a detained area so that sediment can settle out. The principle feature distinguishes a temporary sediment trap from a temporary sediment basin is the lack of a dam or weir.
Sk	FLOATING SURFACE SKIMMER			A transport device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Sp0	SILT FENCE			A temporary sediment control barrier that intercepts perpendicular to the direction of runoff to minimize disruption and infiltration, while creating multiple sedimentation chambers with the employment of transmissive fabric.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system protecting erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slope left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stalked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	WATERWAY OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or supplemented with vegetation or the reestablishment of vegetation surrounding an area of disturbance or sensitive streams.
Cs	COASTAL DUNE STABILIZATION (DS)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DEFERRED WELL ESTABLISHED (DS) SEEDING ONLY			Establishing temporary protection for disturbed areas where permitted may not have a suitable growing season to produce an erosion controlling cover.
Ds2	DEFERRED WELL ESTABLISHED (DS) TEMP SEEDING			Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DEFERRED WELL ESTABLISHED (DS) PERM SEEDING			Establishing a permanent vegetative cover with sod, trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DEFERRED WELL ESTABLISHED (DS) MULCHING			A permanent vegetative cover using seeds on highly erodible or difficult graded areas.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction sites, roadways and similar sites.
FS-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the settle/float separation of suspended particles in solution.
Sb	STABILIZING STRUCTURES DURING THE GROWING			The use of readily available native plant materials to stabilize and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SURFACE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on areas of bare soil, short lines, or slopes.
Tac	TACKIFIER AND MULCH			Substance used to anchor straw or hay mulch by wetting the organic material to stick together.

SWRCC (Amended - 2010)

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

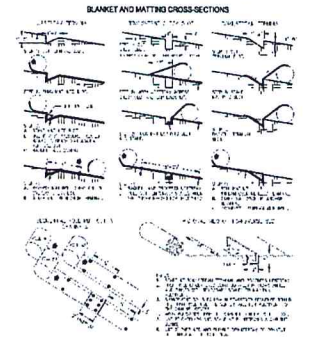


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

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FAX (770) 834-1005
E-MAIL: mail@georgiaandwest.com

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN D. BASS
LEVEL II CERT. #17756
EXPIRES: 03-29-2021

EROSION CONTROL DETAILS

SCALE	N.T.S.
DATE	NOVEMBER 13, 2020
SHEET #	ED-02

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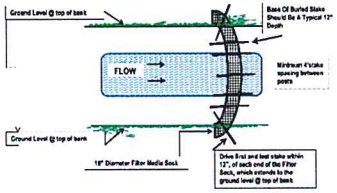
"OR APPROVED EQUAL"

Cd

EROSION AND SEDIMENT CONTROL
CHECK DAM
Typical Installation Plan
Natural Growth Filter Socks- 18"



Note: Filter Media Socks Should Be Sized To Suit Conditions

Natural Growth Filter Socks will be installed across the ditch extending to the outside toes of each bank and securely staked at each end of the filter sock.

Wooden Hardwood Stakes 1 ½" x 1 ½" x 36" (min) are driven through the Filter Sock with a maximum spacing of 4' between each stake.

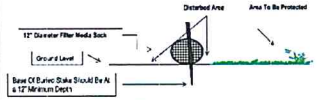
Should overlapping be required within the installation due to the conditions of the channel, it would include a Minimum overlap of 1'. Hardwood Stakes Should Be Driven Through Both Filter Media Socks At Overlap Section.

Filter socks should be monitored after storm events and once sediment reaches ½ the height of the Filter Sock, that sediment should be removed for the continued maximum effectiveness of the Filter Sock.

"OR APPROVED EQUAL"

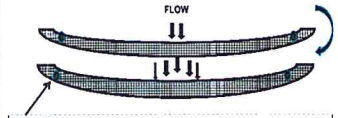
Sd1-S

EROSION AND SEDIMENT CONTROL
FILTER MEDIA SOCKS
Natural Growth Filter Socks- 12"
Single Row Of Filter Media Socks In Sensitive Applications



Note: All Filter Media Socks Are Sized To Suit Conditions

Install Double Row Of Filter Media Socks In Sensitive Applications Only When Necessary



Wooden Stake Maximum Spacing 10' apart
Each New Filter Media Sock Must Be Staked Approx. 12" From Beginning & Ending Of Each Sock
Posts Should Be Hardwood 1 ½" x 1 ½" x 36" (min)

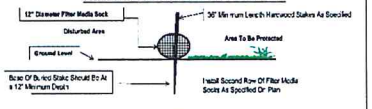
Overlapping Between Filter Media Socks Includes A Minimum Of 1'. Hardwood Stakes Should Be Driven Through Both Filter Media Socks At Overlap Section.

When Necessary, Spacing between double rows of filter socks in sensitive applications should be at a maximum of 3' Apart

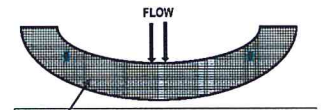
"OR APPROVED EQUAL"

Sd1-NS

EROSION AND SEDIMENT CONTROL
FILTER MEDIA SOCKS
Natural Growth Filter Socks- 12"



Note: Filter Media Socks Sized To Suit Conditions



Wooden Stakes Maximum Spacing 10' apart
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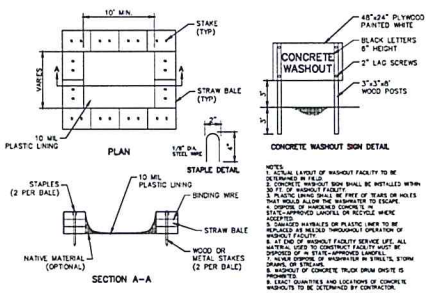
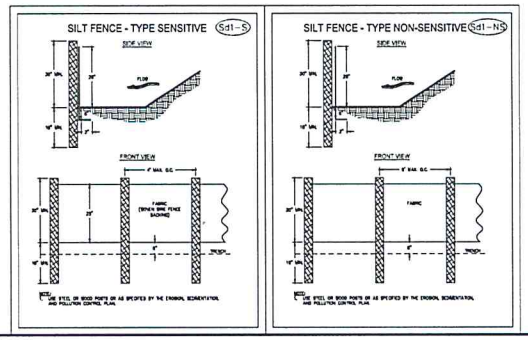
Overlapping Between Filter Media Socks Includes A Minimum Of 1'. Hardwood Stakes Should Be Driven Through Both Filter Media Socks At Overlap Section.



NOTES:
1. ACTUAL LAYOUT OF WASHOUT FACILITY TO BE DETERMINED IN FIELD.
2. AT LEAST ONE WASHOUT SIGN SHALL BE INSTALLED WITHIN 50 FT. OF WASHOUT FACILITY.
3. PLASTIC LINING SHALL BE FREE OF TEARS OR HOLES THAT WOULD ALLOW THE WASHWATER TO ESCAPE.
4. DISPOSE OF HARDENED CONCRETE IN APPROVED LANDFILL OR RECYCLE WHERE ACCEPTED.
5. DAMAGED WASHOUTS OR PLASTIC LINER TO BE REPLACED AS NEEDED THROUGHOUT OPERATION OF WASHOUT FACILITY.
6. AT END OF WASHOUT FACILITY SERVICE LIFE, ALL WASHWATER AND CONCRETE FACILITY WASTE MUST BE DISPOSED OF IN STATE-APPROVED LANDFILL.
7. NEVER DISPOSE OF WASHWATER IN STREETS, STORM DRAINS, OR STREAMS.
8. WASHOUT OF CONCRETE TRUCK DRUM ONSITE IS PROHIBITED.
9. NUMBER, QUANTITIES AND LOCATIONS OF CONCRETE WASHOUTS TO BE DETERMINED BY CONTRACTOR.

CONCRETE WASHOUT – ABOVE GRADE WITH STRAW BALES
N.T.S.



KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
05 CORPORATE DRIVE
CARTERSVILLE, GA 30120
OFFICE (770) 834-4094
FAX (770) 834-1005
E-MAIL: mail@georgiawest.com

	DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER BRIAN D. BAGGS
LEVEL II CERT. #17738
EXPIRES: 09-30-2021

EROSION CONTROL DETAILS

SCALE	N.T.S.
DATE	NOVEMBER 13, 2020
SHEET #	ED-03

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DEVELOPMENT REFERENCE:

DESIGN PROFESSIONAL: GEORGIA AND WEST, INC
105 CORPORATE DRIVE
CARROLLTON, GA 30117
PHONE: (770) 834-4694

24-HOUR CONTACT
JONATHAN McCAIG
404-433-1900

GENERAL NOTES:

1. 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.
2. EACH SECONDARY PERMITTEE WILL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.
3. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
4. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED AREA CONSISTING OF PAVED TRAIL, GRASSING, LANDSCAPING, AND OUTLET PROTECTION AT ALL STORM WATER OUTFALLS.
5. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
   A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
   B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
   C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
   D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.
6. THIS SITE TO BE DEVELOPED INTO LINEAR PARK CONSISTING OF A CONCRETE MULTI-USE TRAIL WITH LANDSCAPING. THE TOTAL SITE AREA: 1.08 ACRES (TOTAL SITE AREA INCLUDES A WIDTH OF 25' ALONG THE CENTERLINE OF THE TRAIL). THE TOTAL DISTURBED AREA: 1.5 ACRES.
7. PERIMETER SEDIMENT CONTROL STRUCTURES ARE SHOWN TO MINIMIZE EROSION & SEDIMENTATION

CLEARING PHASE - PHASE I
EROSION CONTROL NOTES:

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

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

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE EROSION SEDIMENT & POLLUTION CONTROL PLANS SHALL BE PRESENT ON THE SITE AT ALL TIMES.

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.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

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

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1½" & 3½" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES WHERE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S NEED TO BE INSTALLED. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL PLANS WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S WITHIN SEVEN DAYS AFTER INSTALLATION. ONCE THE INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S ARE IN PLACE, THEN CLEARING/GRUBBING/MASS GRADING CAN BEGIN.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE REQUIRED CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NECESSARY.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

RETENTION OF RECORDS:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
   a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
   b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE 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 MONITORING 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 GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
   g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

DESIGN PROFESSIONAL'S CERTIFICATION:

(1) 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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE L AND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002."

(2) 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.

(3) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STEAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

PURSUANCE TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" RELATING TO ENGINEERING SERVICES SHALL MEAN A SIGNED STATEMENT BASED ON FACTS AND KNOWLEDGE KNOWN TO THE ENGINEER AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

NOVEMBER 13, 2020
JOHN D. BASS, PE GA NO. 34591 DATE
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788

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

"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." 1

"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."

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

GRADING PHASE - PHASE 2
EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

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

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE ⅓ DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE REQUIRED CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NECESSARY.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

FINAL PHASE - PHASE 3
EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND OVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE CLEANOUT ELEVATION OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NECESSARY.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

ONCE FINAL STABILIZATION IS ACHIEVED, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED DIFFERENTLY ON PLANS. ONCE TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THEN THE NOTICE OF TERMINATION CAN BE FILED.

PERMIT COVERAGE:

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. 100002 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE.

1. CONSTRUCTION ACTIVITIES (GAR 100002 PART 1.C.1)

A. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING ON OR BEFORE, AND CONTINUING AFTER, THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.

B. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCES EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES), EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.

C. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH INFRASTRUCTURE CONSTRUCTION PROJECTS THAT RESULT IN LAND DISTURBANCE OF LESS THAN FIVE (5) ACRES AND CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE AND THE HYDRAULIC CAPACITY, AS APPLICABLE. THE PERMITTEE SHALL, AS A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE 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 IS BEING CONDUCTED. IN ORDER TO BE ELIGIBLE FOR THIS EXEMPTION THE PROJECT MUST COMPLY WITH THE FOLLOWING CONDITIONS: (1) NO MASS GRADING SHALL OCCUR ON THE PROJECT, (2) THE PROJECT SHALL BE STABILIZED BY THE END OF EACH DAY WITH TEMPORARY OR PERMANENT STABILIZATION AND (3) THE PROJECT SHALL HAVE A DURATION OF LESS THAN 90 CALENDAR DAYS; AND

D. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGE OF STORMWATER ASSOCIATED WITH RAILROAD CONSTRUCTION PROJECTS AND EMERGENCY RE-CONSTRUCTION CONDUCTED PURSUANT TO THE FEDERAL RAILWAY SAFETY ACT, THE INTERSTATE COMMERCE COMMISSION TERMINATION ACT AND WHICH CONSIST SOLELY OF ROUTINE MAINTENANCE FOR THE ORIGINAL PURPOSE OF THE FACILITY THAT IS PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE AND THE HYDRAULIC CAPACITY, AS APPLICABLE. THE CONSTRUCTION ACTIVITY SHOULD, AT A MINIMUM, IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION CONSISTENT WITH THE REQUIREMENTS OF THE FEDERAL RAILWAY SAFETY ACT AND APPLICABLE REQUIREMENTS OF THE CLEAN WATER ACT.

2. MIXED STORM WATER DISCHARGES (GAR 100002 PART 1.C.2)

THIS PERMIT MAY ONLY AUTHORIZE A STORM WATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES THAT IS MIXED WITH A STORM WATER DISCHARGE FROM AN INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION WHERE:
A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
B. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

3. LIMITATIONS ON COVERAGE (GAR 100002 PART 1.C.3)

THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT;
C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
D. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

4. COMPLIANCE WITH WATER QUALITY STANDARDS (GAR 100002 PART 1.C.4)

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

SAMPLING REQUIREMENTS (GAR 100002 PART IV.D.6)

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
(1) 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 INFRASTRUCTURE CONSTRUCTION, (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. 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.
(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A 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
(4) 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.

b. SAMPLE TYPE.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS.
(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
(a). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
(b). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(c). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
(d). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
(e). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(f). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(g). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES 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. FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
(h). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3 OR III.D.4, WHICHEVER IS APPLICABLE.

d. 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 STORM WATER 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 STORM WATER 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, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, 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 REPRESENTATIVE 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 REPRESENTATIVE 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 THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

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	DATE	DESCRIPTION
1	01/08/2021	ADDENDUM #1

PROJECT # 2019-191
PROJECT MANAGER AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 034591 JOHN D. BASS
LEVEL II CERT. #17788
EXPIRES: 09-29-2021

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

SCALE	N.T.S.
DATE	NOVEMBER 13, 2020
SHEET #	EN-01

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP)

This plan was prepared as required by NPDES General Permit No. GAR 100002. These plan sheets and all requirements of the General Permit as well as Local, State, and Federal regulations or laws apply regardless of specific inclusion in this plan.

SITE DESCRIPTION
CITY OF LaGRANGE as Primary Permittee will oversee site construction located within the Property situated in Land lots 116 of District 6, Troup County, Georgia. The magnitude of the entire development contains 1.5 acres.

Project to be developed as a linear park that will consist of a concrete multi-use trail with grassing and landscaping. No secondary permittees are known to be needed for this project at this time.

Zoning
N/A

Survey Information
Boundary Information: Obtained from field survey performed by Georgia & West, Inc.

Topographic Information: Obtained from field survey performed by Georgia & West, Inc.

NGS Monument: OPUS
Vertical: NAVD 88
TBM: Top F.H. Operating Nut. Elev.: 704.55

Flood Insurance Rate Map, Panel 13285C0143E, Dated 09-19-2007, shows the site to be in Zone X (no base flood elevations determined).

Runoff Coefficient
* Weighted pre-construction Runoff Coefficient (C): 0.39
* Weighted post-construction Runoff Coefficient (C): 0.39

Soil Types
The NRCS soil types are shown on the Erosion Control Plans.

Soil Disturbing Activities include:
- Installing a stabilized construction exit, perimeter and other erosion and sediment controls
- Clearing and grubbing
- Grading and excavation for utilities & road subgrade
- Preparation for final planting and seeding
- Completion of on-site stabilization

Sequence of Major Activities
See Construction Schedule

Name of Receiving Waters
Tributary of Osetgee Creek

CONTROLS
Erosion and Sediment Controls

All construction exits shall be in place prior to any land disturbing activities.

Existing vegetation shall be left in place until such time that land disturbing activities are to take place upon that portion of the site. When construction activities have ceased in an area, that area shall be stabilized within 14 days. If the area is not yet to final grade, it shall be mulched. If the area is to final grade and will eventually contain site improvements such as the structures or sidewalks, it shall be temporary seeded. Areas brought to final grade that will remain pervious are to be permanently seeded. Allowable exceptions from the NPDES General Permit, GAR 100002, are noted below.

"Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable."

Please refer to Detail Sheets for the land disturbance construction schedule and temporary and permanent grassing schedules.
Storm water from this development will sheet flow into a Tributary of Osetgee Creek.

NON-STORM WATER DISCHARGES
All non-storm water discharges will be routed through on site BMPs and the storm water management system where possible. These discharges include flushing of water and fire lines, irrigation water, ground water, dewatering of pits or depressions within the construction site and rinse off water of non-toxic materials.

OTHER CONTROLS
NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

Waste Materials
All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

Building Materials
Building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site, provide cover (e.g. plastic sheeting, temporary roofs) to minimize the exposure of these products to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk to stormwater contamination (such as final products and materials intended for outdoor use).

Hazardous Wastes
All hazardous waste materials will be disposed of in the manner specified by local, state, and /or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. A MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. If such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

Sanitary Wastes
A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in one area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented, such as gravel bags or specialy designed plastic skid containers around the base, to prevent wastes from contributing to storm water discharges. The location of sanitary waste units must be identified on the Erosion Control Plan Grading Phase, by the contractor once the locations have been determined.

Sanitary Sewer will be provided by Municipal System at the completion of this project. No permanent waste disposal, sanitary sewer, or septic tanks shall be installed without obtaining all necessary approvals of local and/or state regulations.

Offsite Vehicle Tracking
A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. The paved street adjacent to the site exit will be inspected daily for tracking of mud, dirt or rock. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

INVENTORY FOR POLLUTION PREVENTION PLAN

The following materials are expected onsite during construction: Concrete products, asphalt, petroleum based fuels and lubricants for equipment, tar, metal building materials, lumber, sheet rock, floor coverings, electrical wire and fixtures, paints/stains/finishing treatments, paints, paint solvents, additives for soil stabilization, cleaning solvents, pesticides, fertilizers, herbicides, crushed stone, plastic and metal pipes.

SPILL PREVENTION

Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices will be followed to reduce the risk of spills and spills from discharging into storm water runoff.

Good Housekeeping

1. Quantities of products stored onsite will be limited to the amount needed for the job.
2. Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible.
3. Products will be kept in their original containers with manufacturer labels legible and visible.
4. Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.
5. The Contractor will inspect such materials to ensure proper use, storage and disposal.

Product Specific Practices

Petroleum Based Products - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water 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.

Paints/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

Concrete - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite. Wash areas for washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles, if used, will consist of an enclosed waste collection area that will contain the concrete wash until it hardens then disposed of into the onsite construction waste bin.

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.

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.

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 includes, but is not limited to , brooms, dustpans, mops, rags, gloves, goggles, cat litter, and, sawdust and properly labeled plastic and metal waste 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 OF AN UNKNOWN AMOUNT, THE NATIONAL 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.

INSPECTIONS

Primary Permittee

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 handed 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 and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.
3. Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any nonworking Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site ; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
4. Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
5. Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practice but in no case later than seven (7) calendar days following each inspection.
6. A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

A COPY OF THE REPORT(S) SHALL BE SENT TO THE OWNER/DEVELOPER, EPD AS REQUIRED BY THE PERMIT AND THE PROJECT INSPECTOR.

MAINTENANCE & INSPECTION OF EROSION & SEDIMENTATION CONTROLS

Maintenance

The following best management practice maintenance criteria are taken from the "Manual for Erosion and Sediment Control in Georgia", Sixth Edition.

Construction exits shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5 - 3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been lost.

Sediment shall be removed from sediment traps when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation.

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Repair all damages caused to temporary sediment basins by soil erosion or construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. Sediment shall not enter adjacent streams or drainage ways during sediment removal or disposal. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain.

Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately move of needed repairs to prevent further damage.

Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and seeding growth.

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.

Permanent vegetation shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that 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 the GA EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures. Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

STORMWATER SAMPLING

SAMPLE ANALYSIS

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding an increase of 25 N.T.U. from upstream to downstream sampling location.

Sampling Points

There will be 2 storm water sampling locations, MS1A & MS1B. MS1A will be the upstream sampling location and MS1B will be the downstream sampling location. See Erosion Control Plan sheets for exact location. Per NPDES Permit GAR 100002, for construction activities, the Primary Permittee must complete all sampling

* 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 samplings should be kept free from floating debris.
* The Primary Permittee does not have to sample sheet flow onto undisturbed natural areas or areas stabilized by the project.

Reporting

A monthly summary of the monitoring results shall be sent to CITY OF LaGRANGE and Georgia Environmental Protection Division by the 15th of each month.
The report summary shall include:

* The rainfall amount, date, exact place and time of sampling or measurements;
* The name(s) of the certified personnel who performed the sampling and measurements;
* The date(s) analyses were performed;
* The time(s) analyses were initiated;
* The name(s) of the individuals who performed the analyses;
* References and written procedures, when available, for the analytical techniques or methods used. A quality control/quality assurances program must be included in the written procedure;
* The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

*Results which exceed 1000 NTU shall be reported as "Exceeds 1000 NTU."
*Certification statement that sampling was conducted as per the Plan.

If no qualifying events occurred within a monthly monitoring period, a report must be submitted stating such. Addresses are provided below:

Governing Agency:

Georgia Environmental Protection Division Mountain District (Atlanta)
4244 International Parkway Suite 114
Atlanta, GA 30354
(404) 362-2671

ATTN: CITY OF LaGRANGE
ATTN: MEG KELSEY
200 RIDLEY AVENUE
LaGRANGE, GA 30240
706-883-2018
mkelsey@lagrangega.org

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The contractor will obtain copies of any and all local and state regulations that are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The contractor will submit written evidence of such compliance if requested by the Owner or any agents of a regulatory body. The contractor will comply with all conditions of any and all local, state and federal agencies have governing authority, including the conditions related to maintaining the ESPCP and evidence of compliance with the ESPCP at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

CERTIFICATION

"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 an d Sediment Control in Georgia' (Manual) published by the state Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices meets the design requirements contained in the General NPDES Permit No. GAR 100002."

JOHN D. BASS, PE GA NO: 34591 — DATE: NOVEMBER 13, 2020
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788
EXPIRES: 09-29-2021

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION. CONTRACTOR MUST CONTACT DESIGN PROFESSIONAL IMMEDIATELY ONCE BMP'S ARE INSTALLED.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION _____

I Certify the site was / was not in compliance with the ES&PC Plan on the date of inspection.

_____
JOHN D. BASS, PE GA NO. 34591
LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788

Inspection revealed the following discrepancies from the ES&PC Plan.

_____

_____

_____

These deficiencies must be addressed immediately and a re-inspection scheduled. Work shall not proceed on the site until Design Professional Certification is obtained.

KAIZENCOLLABORATIVE
2390 MAIN STREET | TUCKER, GEORGIA 30084 | 404.239.2521

GEORGIA & WEST, INC.
ENGINEERING • LAND SURVEYING • LAND PLANNING
106 CORPORATE DRIVE
CARROLLTON, GA 30117
OFFICE: (770) 834-1004
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E-MAIL: mail@georgiawest.com

DATE	DESCRIPTION

PROJECT #	2019 - 191
PROJECT MANAGER	AC

LaGRANGE THREAD PHASE 7 - CLOCK TOWER TRAIL
LaGRANGE, GA

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN D. BASS — LEVEL II CERT. #17788 EXPIRES: 09-29-2021

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

SCALE	N.T.S.
DATE	NOVEMBER 13, 2020
SHEET #	EN-02

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