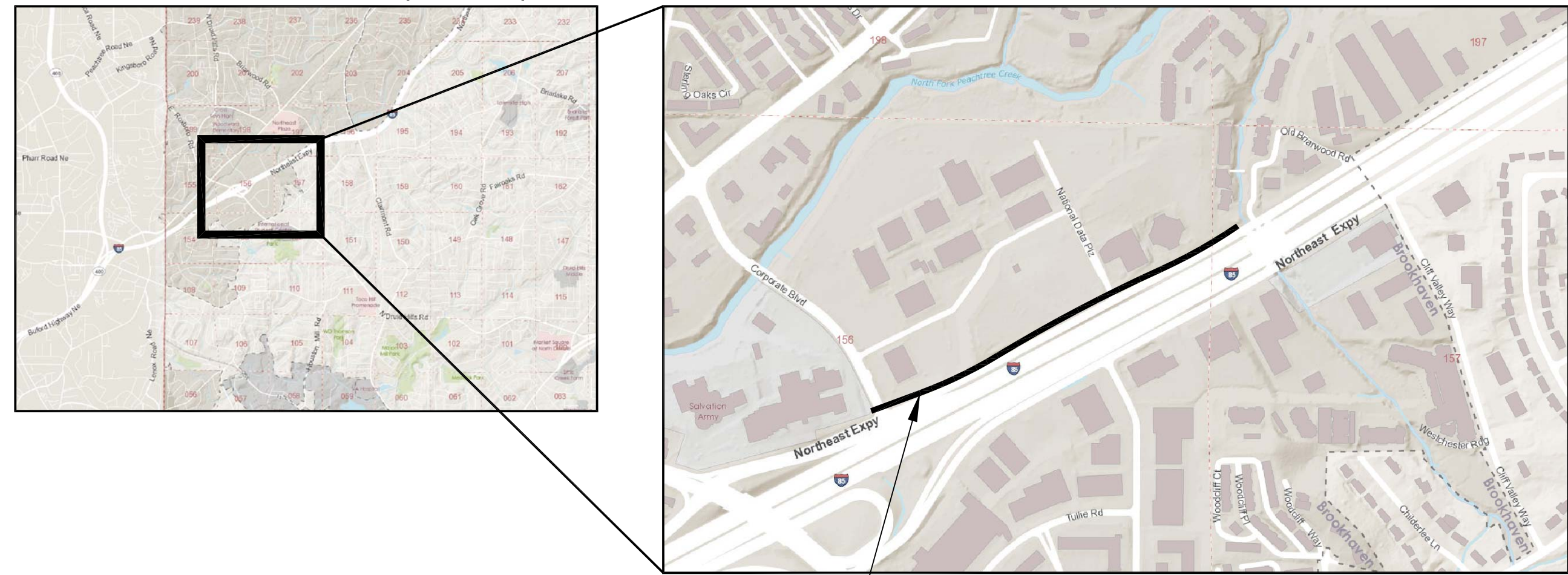


LOCATION SKETCH (N.T.S.)



DRAWING SCALE - 1:580

PROJECT LOCATION



CONSTRUCTION PLANS FOR:
CITY OF BROOKHAVEN, DEPT. OF PUBLIC WORKS

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
FROM CORPORATE BLVD. TO STONE CREEK APTS.
LAND LOT: 156 AND 157 DISTRICT 18

City of Brookhaven Permit NO:LDP20-00035
GDOT Permit NO:A-089-005325-7
DeKalb County Permit NO: 3071835

TOTAL SITE AREA: 0.7 ACRES
DISTURBED AREA: 0.7 ACRES
PROPOSED ADDITIONAL IMPERVIOUS:
0.45 ACRES

STATE ROUTE 403 EXT. NDH-1
POSTED SPEED LIMIT: 45MPH
FUNCTIONAL CLASS:
MULTI-USE TRAIL
THIS PROJECT IS 100% IN DEKALB COUNTY AND IS 100% IN CONG. DIST. NO.5

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

THE PROJECT DOES FALL WITHIN 200' OF STATE WATERS

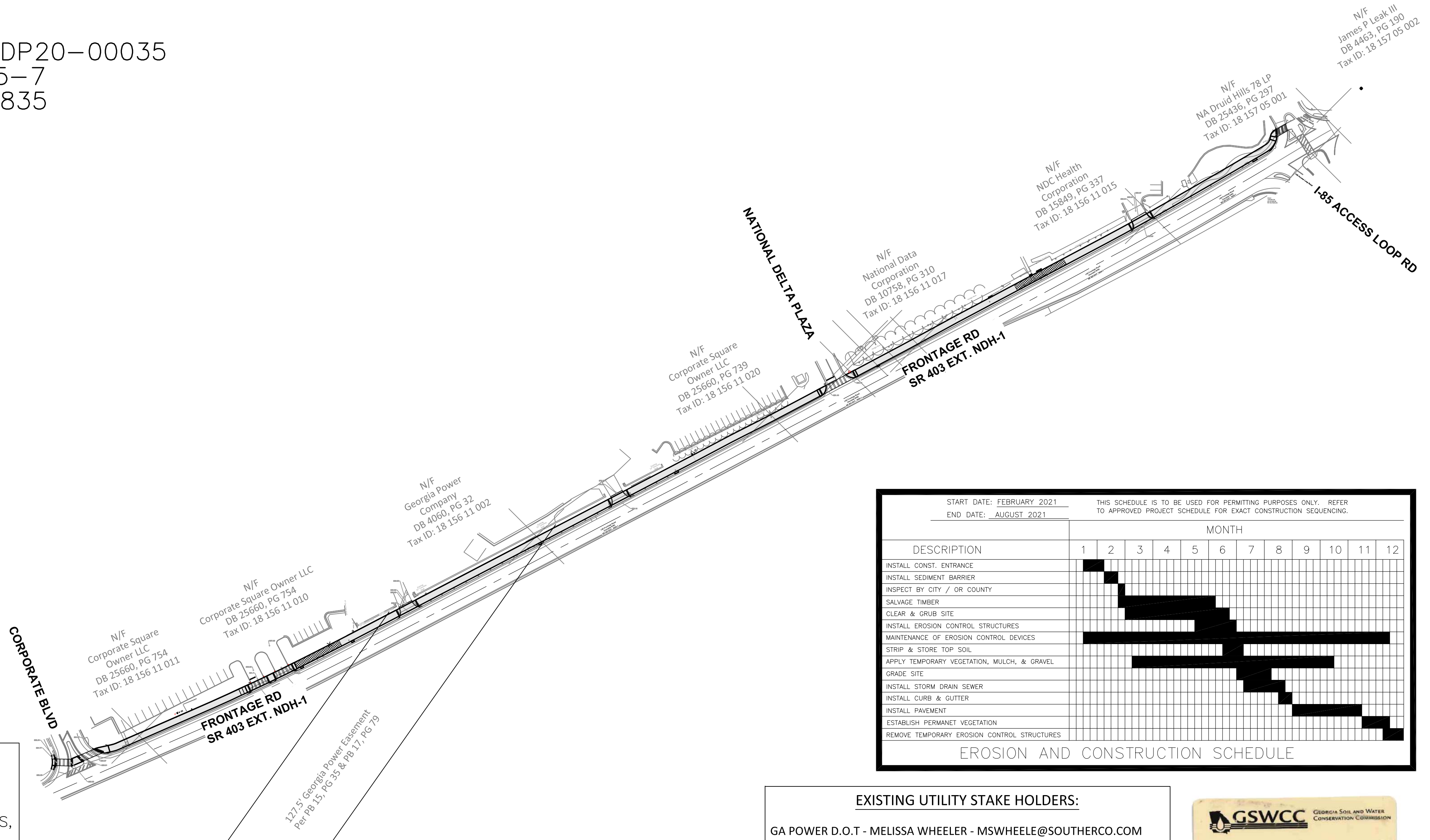
LENGTH OF PROJECT	LINEAR FEET
	NET LENGTH OF ROADWAY
NET LENGTH OF PED. BRIDGES	N/A
NET LENGTH OF TRAIL	2068
NET LENGTH OF EXCEPTIONS	N/A
GROSS LENGTH OF PROJECT	2068

PROJECT DESCRIPTION-
PROJECT IS FOR THE CONSTRUCTION OF A 10' MULTI-USE PATH WITHIN THE EXISTING LANDSCAPE BUFFER OF I-85 FRONTAGE ROAD: THE PROJECT INCLUDE SIDEWALK CONSTRUCTION, (3) RETAINING WALLS, DRIVEWAY MODIFICATION, GRADING, MINOR UTILITY RELOCATION, LANDSCAPING, AND SIGNING & MARKING

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWING OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY.

DEKALB COUNTY



START DATE: FEBRUARY 2021
END DATE: AUGUST 2021

THIS SCHEDULE IS TO BE USED FOR PERMITTING PURPOSES ONLY. REFER TO APPROVED PROJECT SCHEDULE FOR EXACT CONSTRUCTION SEQUENCING.

DESCRIPTION	MONTH											
	1	2	3	4	5	6	7	8	9	10	11	12
INSTALL CONST. ENTRANCE												
INSTALL SEDIMENT BARRIER												
INSPECT BY CITY / OR COUNTY												
SALVAGE TIMBER												
CLEAR & GRUB SITE												
INSTALL EROSION CONTROL STRUCTURES												
MAINTENANCE OF EROSION CONTROL DEVICES												
STRIP & STORE TOP SOIL												
APPLY TEMPORARY VEGETATION, MULCH, & GRAVEL												
GRADE SITE												
INSTALL STORM DRAIN SEWER												
INSTALL CURB & GUTTER												
INSTALL PAVEMENT												
ESTABLISH PERMANENT VEGETATION												
REMOVE TEMPORARY EROSION CONTROL STRUCTURES												

EROSION AND CONSTRUCTION SCHEDULE

EXISTING UTILITY STAKE HOLDERS:
GA POWER D.O.T - MELISSA WHEELER - MSWHEELER@SOUTHERCO.COM
GA POWER DISTRIBUTION - KENNETH DAVIS - KRDAVIS@SOUTHERCO.COM
AT&T - TIFFANY HAMMOND - TH6381@ATT.COM
COMCAST - ANSLEY JOHNSON - ANSLEY_JOHNSON@COMCAST.COM
CROWN CASTLE - VENESIA HORNE - VENESIA.HORNE@CROWNCastle.COM
ATLANTA GAS LIGHT - GINNY MAULDIN - VMAULDIN@SOUTHERNCO.COM
DEKALB WATER AND SEWER - (770) 621-7200



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

OWNER/DEVELOPER (PRIMARY PERMITTEE)
CITY OF BROOKHAVEN
HARI KARIKARAN, P.E. & DONALD SHERRILL
PUBLIC WORKS DIRECTOR & DEPUTY DIRECTOR
4362 PEACHTREE RD, BROOKHAVEN, GA 30319
O: 404-637-0682 C: 404-991-4763
DON.SHERRILL@BROOKHAVENGA.GOV

24HR. CONTACT
DONALD SHERRILL
PUBLIC WORKS DEPUTY DIRECTOR
4362 PEACHTREE RD, BROOKHAVEN, GA 30319
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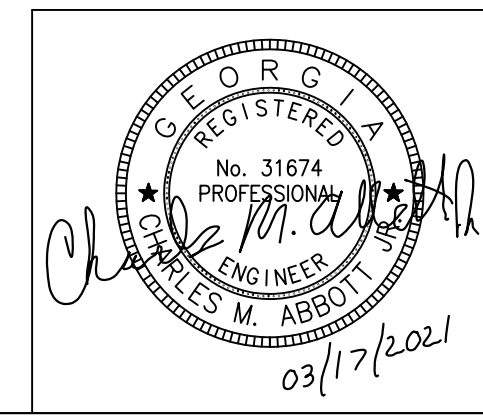
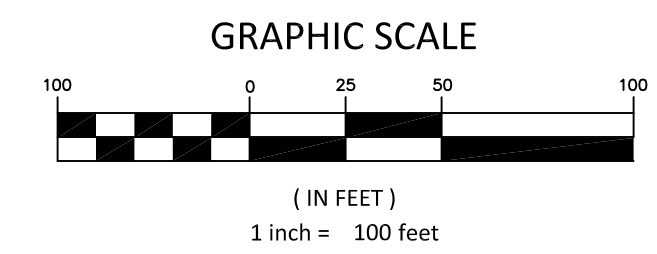
BROOKHAVEN CITY COUNCIL INFORMATION:
MEMBERS -
MAYOR: JOHN ERNST
REP. DISTRICT 1: LINLEY JONES
REP. DISTRICT 2: JOHN PARK
REP. DISTRICT 3: MADELINE SIMMONS
REP. DISTRICT 4: JOE GEBBIA

CONTACT INFORMATION -
EMAIL: MAYORANDCOUNCIL@BROOKHAVENGA.GOV
PHONE: (404) 637-0500



PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521
CHARLES M. ABBOTT JR, P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
T: 404-239-2521

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT



PLANS COMPLETED	11/20/2020	100% ISSUE FOR PERMIT
REVISION DATES	01/11/2021	REV. 1 CITY COMMENTS
	02/08/2021	REV. 2 AGENCY COMMENTS
	03/17/2021	REV. 3 GDOT COMMENTS

REVISION ROUNDS		DWG NO.	DESCRIPTION
CONSTRUCTION PLANS			
△	△	01-0001	COVER
△	△	02-0001	INDEX
△	△	04-0001 TO 04-0002	GENERAL NOTES & LEGENDS
		03-0000	TOPOGRAPHIC SURVEY: COMPOSITE MAP
		03-0001 TO 03-0004	TOPOGRAPHIC SURVEY
△	△	05-0001	TYPICAL SECTIONS
△	△	09-0001	DETAILED ESTIMATE
△		10-0001	TRAFFIC CONTROL PLANS
△		10-0002	TRAFFIC CONTROL DETAIL
△	△	13-0001 TO 13-0004	MAINLINE PLANS
		15-0001 TO 15-0004	MAINLINE PROFILE
		23-0001 TO 23-0003	CROSS-SECTIONS
△		24-0000	UTILITY NOTES AND LEGEND
△	△	24-0001 TO 24-0004	UTILITY PLANS
		26-0000	SIGNING AND MARKING NOTES AND DETAILS
	△	26-0001 TO 26-0004	SIGNING AND MARKING PLANS
△	△	29-0000	LANDSCAPE NOTES, DETAILS, AND PLANT SCHEDULE
△	△	29-0001 TO 29-0004	LANDSCAPE AND TREE PROTECTION PLANS
RETAINING WALL PLANS			
		32-0001	GENERAL NOTES AND SECTION DETAILS
		32-0002	WALL #1 PLAN VIEW
		32-0003	WALL #2 PLAN & SECTION DETAIL
		32-0004	WALL #2 PLAN & SECTION DETAIL
SPECIAL CONSTRUCTION DETAILS			
△	△	38-0001 TO 38-0004	SPECIAL CONSTRUCTION DETAILS
△		40-0001 TO 40-0002	GDOT STANDARD DETAILS
EROSION CONTROL PLANS			
△	△	51-0001 TO 51-0004	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
△	△	51-0005	EROSION CONTROL CHECKLIST
△	△	51-0006	EROSION CONTROL BMP
△	△	56-0007 TO 51-0009	EROSION CONTROL DETAILS



PLANS PREPARED BY:
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
DEPUTY DIRECTOR
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REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
△ REV. 1 CITY COMMENTS	01/11/2021
△ REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

INDEX

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
02-0001

GENERAL NOTES

1. 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
2. DIMENSIONS ARE TO FACE 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.
3. 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 ENGINEER 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.
4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. 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 ENGINEER.
5. TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROADWAY IMPROVEMENT WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPPING WORK.
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 ALLOWED AS NECESSARY WITH PRIOR APPROVAL GIVEN BY THE ENGINEER. 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 PLATINUM GEOMETRICS, (404) 295-8653, 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 AS REQUIRED BY NPDES PERMITTING BY CONTRACTOR.
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 BROOKHAVEN.
15. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2013 STANDARD SPECIFICATIONS AND 2016 SUPPLEMENTAL SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION, AND AS MODIFIED BY CONTRACT DOCUMENTS.
16. ALL CONCRETE TO BE USED FOR THE CONSTRUCTION OF TRAILS TO BE 3000 PSI CONCRETE.
17. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF BROOKHAVEN AND KAIZEN COLLABORATIVE PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL REQUEST CAD STAKING DATA FROM ENGINEER UPON AWARD OF CONTRACT.
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. IF THE PROPERTY OWNER ADDS LIGHTING IN THE FUTURE TO THE PROJECT, ALL LIGHTS MUST BE INSTALLED ON PRIVATE PROPERTY AND MAINTAINED BY THE PROPERTY OWNER.

TRAIL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING MINIMUM SLOPES ALONG THE TRAIL. THE SLOPES SHALL NOT EXCEED 8.33% PERCENT FOR 200 LF, UNLESS SPECIFICALLY NOTED.
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 VERTICAL & HORIZONTAL CLEARING OF ALL UNDER-STORY VEGETATION WITHIN 10' OF TRAIL. CLEARING AREA MAY INCREASE WHERE INVASIVE PLANTS ARE LOCATED. CONTRACTOR SHALL CONFIRM VEGETATION TO BE CLEARED WITH 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 ROAD PAVEMENT MARKING SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED ON PLANS.
6. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY BROOKHAVEN TRAFFIC ENGINEER.

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 ENGINEER OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PROMPTLY UPON DISCOVERY.
7. ALL EXISTING ELECTRICAL BOXES, WATER METER BOXES, AND VALVE BOXES THAT 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 PROJECT MANAGER. PROJECT MANAGER MAY REQUEST A GEOTECHNICAL ENGINEER IF SOILS ARE DETERMINED UNSUITABLE. AREAS WHICH PUMP WHILE PROOF ROLLED SHALL BE UNDERCUT AND BACK-FILLED AS DIRECTED BY GEOTECHNICAL ENGINEER.
9. GRADED AGGREGATE BASE COURSE 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.



PLANS PREPARED BY:
KAIZEN COLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521
 CHARLES M. ABBOTT JR, P.E.
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 GSWCC # 0000041686 EXPIRES: 04/13/2022
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CITY OF BROOKHAVEN
 DONALD SHERRILL - PUBLIC WORKS
 DEPUTY DIRECTOR
 4382 PEACHTREE RD., BROOKHAVEN, GA 30319
 E: DON.SHERRILL@BROOKHAVENGA.GOV
 O: 404-991-4763 C: 404-637-0882

REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

GENERAL NOTES & LEGENDS
 N.E. EXPRESSWAY FRONTAGE ROAD
 MUTI-USE PATH

DRAWING No.
04-0001

SITE DATA

TOTAL SITE AREA = 0.7 ACRES
DISTURBED AREA = 0.7 ACRES

NPDES FEE = NOT APPLICABLE <1 ACRE
STATE AMOUNT = N/A
CITY AMOUNT = N/A

CONTACTS

PRIMARY CONTACTS:

CITY OF BROOKHAVEN
DONALD SHERRILL - M-F 8:00 AM - 5:00 PM
DON.SHERRILL@BROOKHAVENGA.GOV
Office 404-637-0682 Cell 404-991-4763

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.

(SEE EROSION CONTROL SHEETS FOR EROSION CONTROL CONSTRUCTION SCHEDULE)

START DATE: MARCH 2021 THIS SCHEDULE IS TO BE USED FOR PERMITTING PURPOSES ONLY. REFER TO APPROVED PROJECT SCHEDULE FOR EXACT CONSTRUCTION SEQUENCING.
END DATE: SEPTEMBER 2021

DESCRIPTION	MONTH					
	1	2	3	4	5	6
SEDIMENT CONTROL	[Shaded]					
CLEARING & GRUBBING	[Shaded]					
GRADING				[Shaded]		
TEMPORARY GRASSING	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]
PERMANENT GRASSING					[Shaded]	[Shaded]
PAVING					[Shaded]	[Shaded]
MAINT. OF EROSION CONTROL DEVICES	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]
BUILDING CONSTRUCTION	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]
DISPOSITION OF SEDIMENT DEVICES					[Shaded]	[Shaded]
CLEARING OF STORM DRAINS						[Shaded]

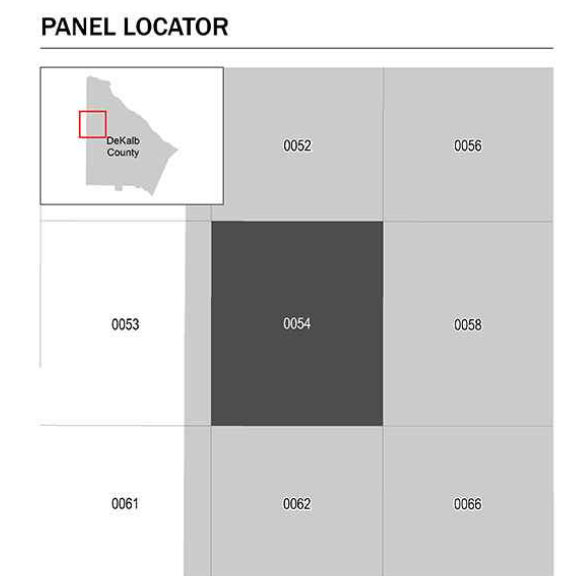
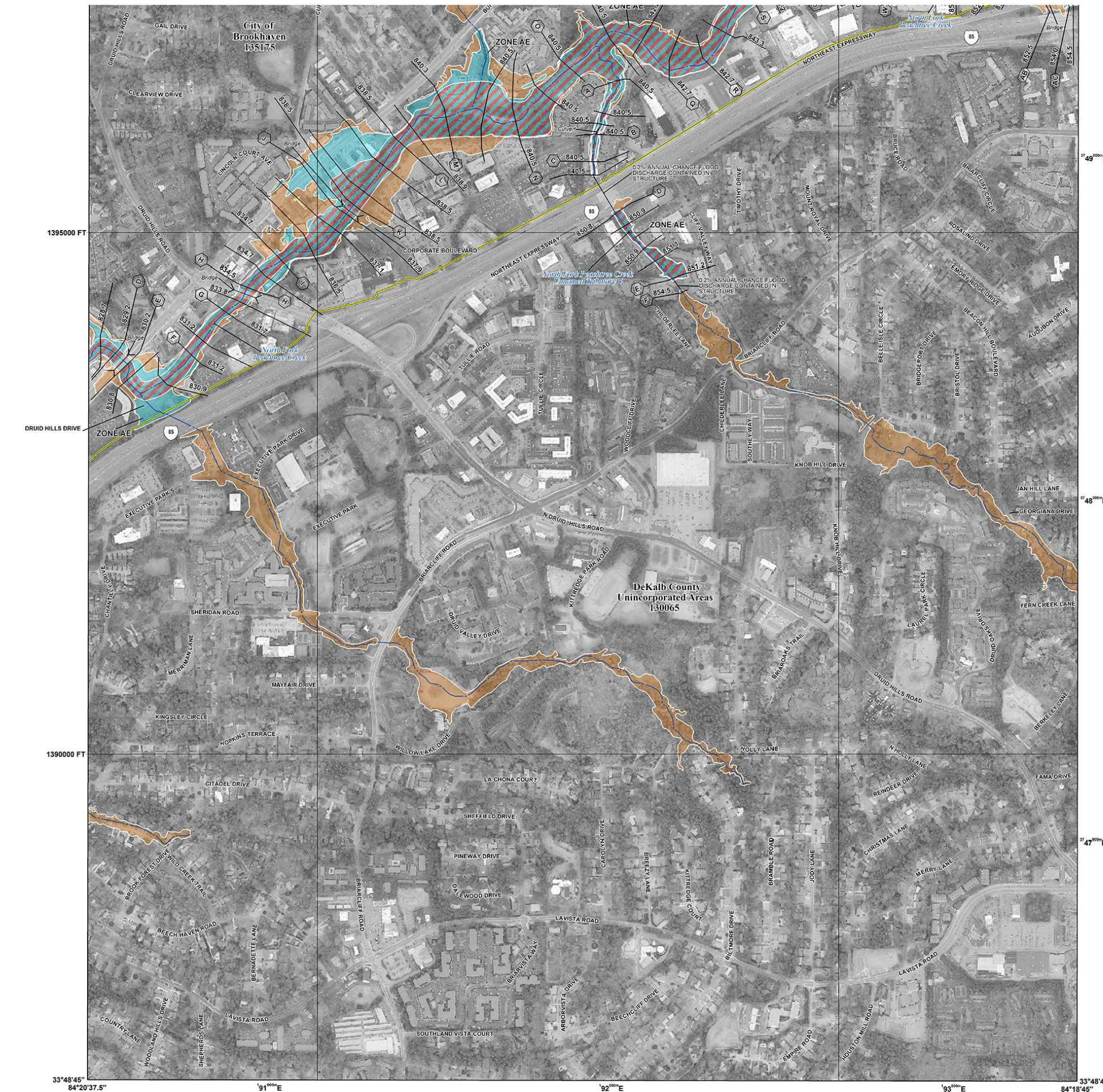
ACTIVITY SCHEDULE

CONSTRUCTION LEGEND

- PROPOSED TRAIL AND CENTERLINE
- PROPOSED STRUCTURAL SLAB WITH RAILING
- PROPOSED CROSSWALK
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED FENCELINE
- EXISTING FENCELINE
- PROPOSED DEMOLITION ITEM
- EXISTING CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING ASPHALT TRAIL
- PIPE AND CULVERT
- STEEL BOLLARDS
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- SHEET MATCHLINE
- PROPERTY LINE

LEGEND

	1033 CATCH BASIN		WATER VALVE		SILT FENCE
	1034 CATCH BASIN		GAS VALVE		TREE PROTECTION FENCE
	1019A DROP INLET		HANDICAPPED PARKING		CHAIN LINK FENCE
	1011A JUNCTION BOX		TRAFFIC FLOW		EXISTING FENCE
	1019A TYPE E CURB INLET		UNDERGROUND POWER		EXISTING CONTOUR
	1125 HEADWALL		OVERHEAD POWER		PROPOSED CONTOUR
	DRAINAGE SLOPE		UNDERGROUND CABLE		EXISTING CONTOUR
	SEWER MANHOLE		OVERHEAD TELEPHONE		PROPOSED CURB & GUTTER
	EXISTING FIRE HYDRANT		FIBER OPTIC CABLE		EXISTING CURB & GUTTER
	PROPOSED FIRE HYDRANT		WATER		PROPOSED CURB & GUTTER
	LAMP POST		SANITARY SEWER		EXISTING SPOT ELEVATION
	GUY POLE		FORCE MAIN		PROPOSED SPOT ELEVATION
	UTILITY POLE		GAS		
			STORM DRAIN		



FEMA National Flood Insurance Program

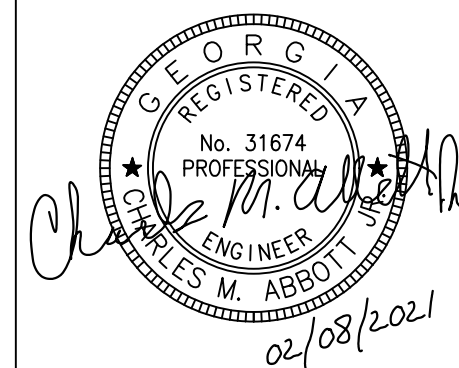
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
DEKALB COUNTY, GEORGIA
ISSUANCE DATE: APRIL 5, 2011

Panel Contains:
COMMUNITY: BROOKHAVEN, CITY OF DEKALB COUNTY
NUMBER: 18015
PANEL: 004
SUFFIX: X

VERSION NUMBER: 2-3-12
MAP NUMBER: 130890004K
MAP REVISED: AUGUST 15, 2019

F.E.M.A. F.I.R.M. MAP
SCALE: N.T.S.

THIS IS AN OFFICIAL COPY OF A PORTION OF THE ABOVE REFERENCE FLOOD MAP. IT WAS EXTRACTED USING F-MIT ON-LINE. THIS MAP DOES NOT REFLECT CHANGES OR AMENDMENTS WHICH MAY HAVE BEEN MADE SUBSEQUENT TO THE DATE ON THE TITLE BLOCK. FOR THE LATEST PRODUCT INFORMATION ABOUT NATIONAL FLOOD INSURANCE PROGRAM FLOOD MAPS CHECK THE FEMA FLOOD MAP STORE AT www.msc.fema.gov



PLANS PREPARED BY:
KAIZEN COLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521

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DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
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T: 404-239-2521

CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
DEPUTY DIRECTOR
4382 PEACHTREE RD., BROOKHAVEN, GA 30319
E: DON.SHERRILL@BROOKHAVENGA.GOV
O: 404-991-4763 C: 404-637-0682

REVISION DATES

100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

GENERAL NOTES & LEGENDS

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
04-0002

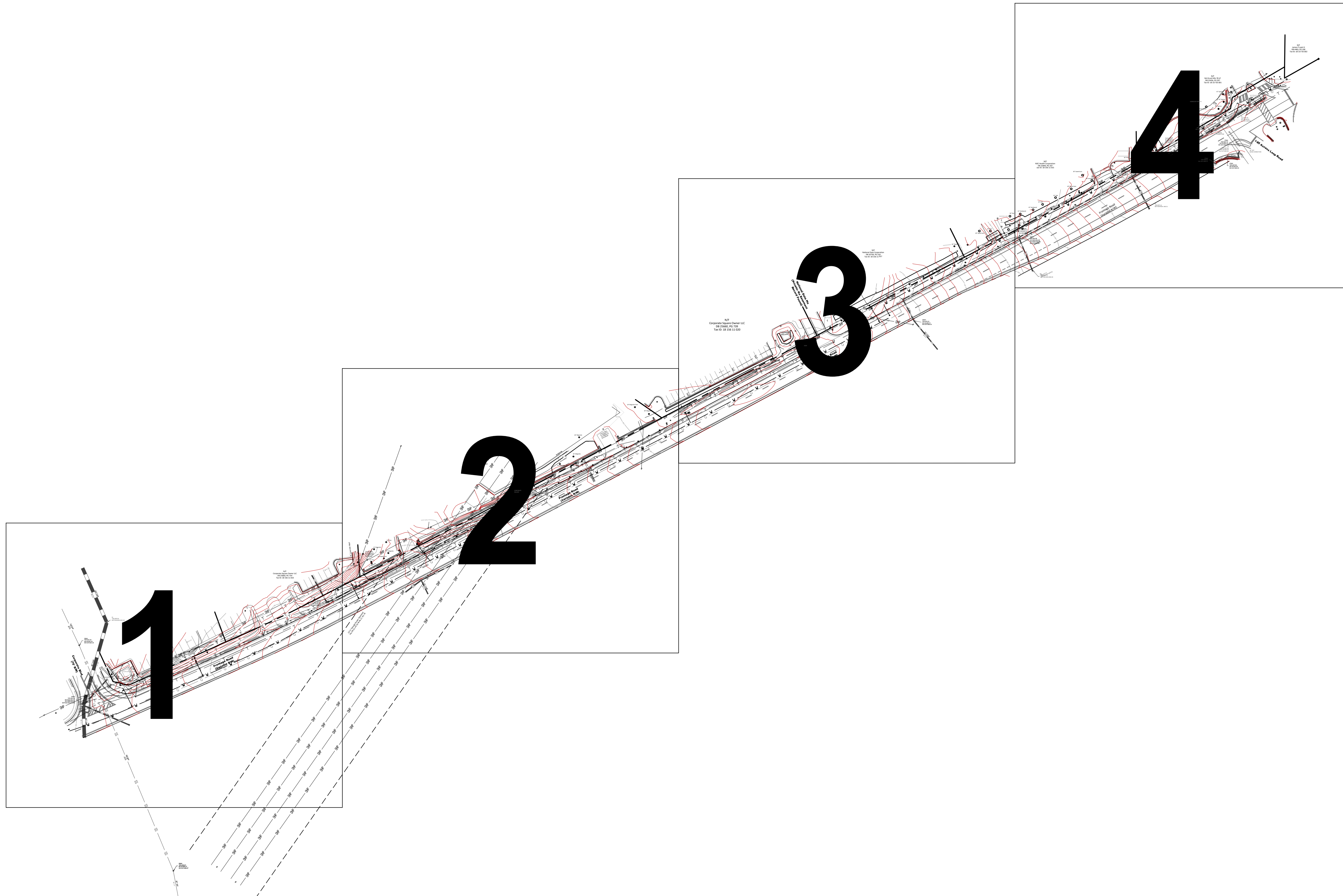
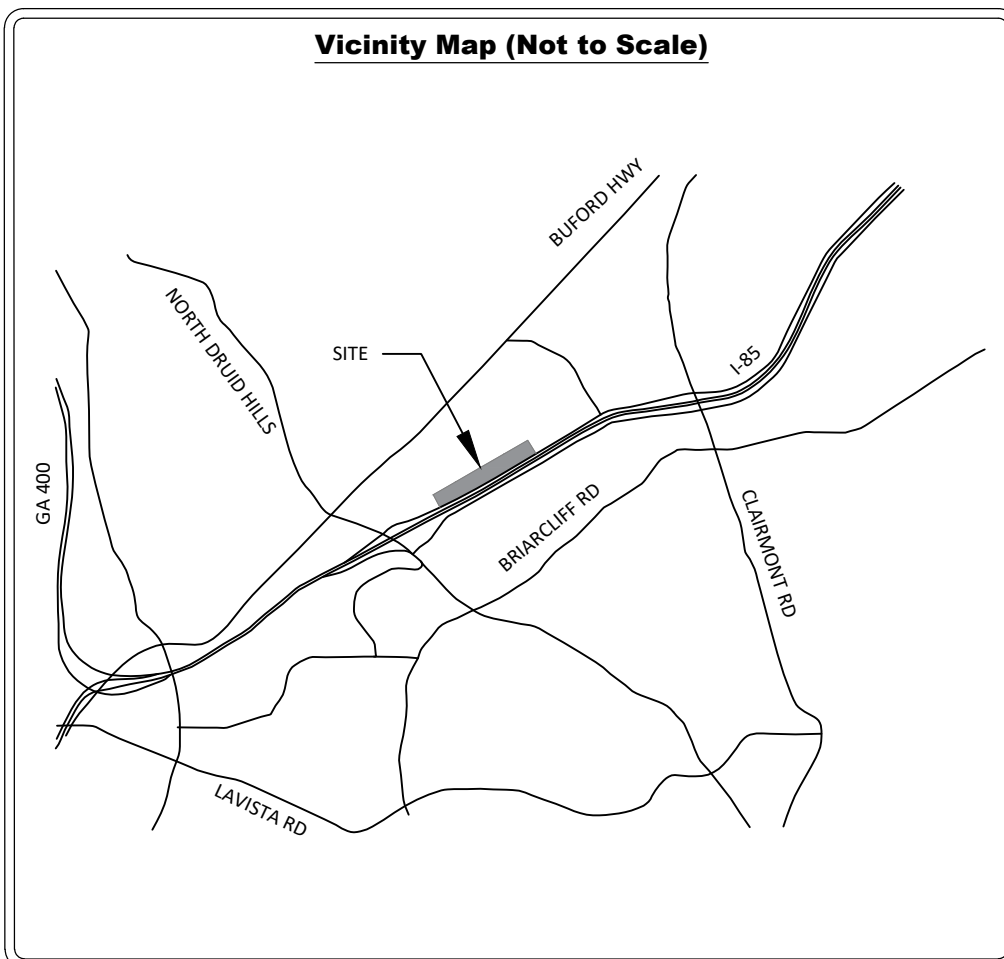
GRID NORTH
 GEORGIA WEST ZONE NAD83 (2011)
 NAVD88 (Geoid 12B)



Legend

- Property Corner Found ●
- 1/2" Rebar with Cap Set ○
- Concrete Right-of-way Monument Found ☒
- Un-Monumented Angle Break ▲
- Not to Scale ~~~~~
- Electric Marker ○
- Electric Box □
- Sanitary Sewer Manhole ●
- Storm Manhole ○
- Storm Drop Inlet □
- Survey Control ▲
- Light Pole ○
- Monitoring Well ●
- Water Line Marker □
- Water Valve ○
- Fire Hydrant ○
- Communication Line Marker ○
- Communication Box □
- Paint Striping [hatched box]
- Chain Link Fence [X line]
- Rip Rap [stippled box]
- Underground Water Supply Line [dashed line]
- Ditch/Creek/River Centerline [solid line]
- Approximate Flood Plain Boundary [dotted line]
- Property Line [long dashed line]
- Edge of Easement Line [short dashed line]

Vicinity Map (Not to Scale)



Surveyor's Certification

This is a topographic map derived from a field survey that was performed under my direct supervision that was checked and found to be accurate to support 1 foot contours. This map does not constitute a boundary survey and should not be used to convey property.



Byron T. Freeman

10/05/2020

Byron T Freeman, GA RLS #3184

Date

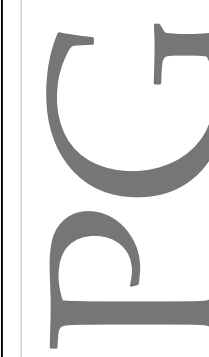
Revision Number	Revision Description	Date of Revision

Date of Acquisition: April 2020
 Date of Field Preparation: October 2nd, 2020
 Approved By: B Freeman
 Platinum Geomatics Project No: 1004-015
 Drawing Scale: NTS

Land (s): 158 & 157
 Land District: 18th District
 City, County, & State: City of Brookhaven, DeKalb County, Georgia
 Units of Measurement: U.S. Survey Feet
 Sheet No: NTS
 Cover: Cover

Topographic Survey

of
Northeast Expressway
Frontage Road



5039 E U Boyman Drive, Suite 400 | Buford, Georgia 30518 | (770) 288-9869
 Platinum Geomatics, LLC is performing Professional Land Surveying Services
 in Georgia under Certificate of Authorization No. LS1001238

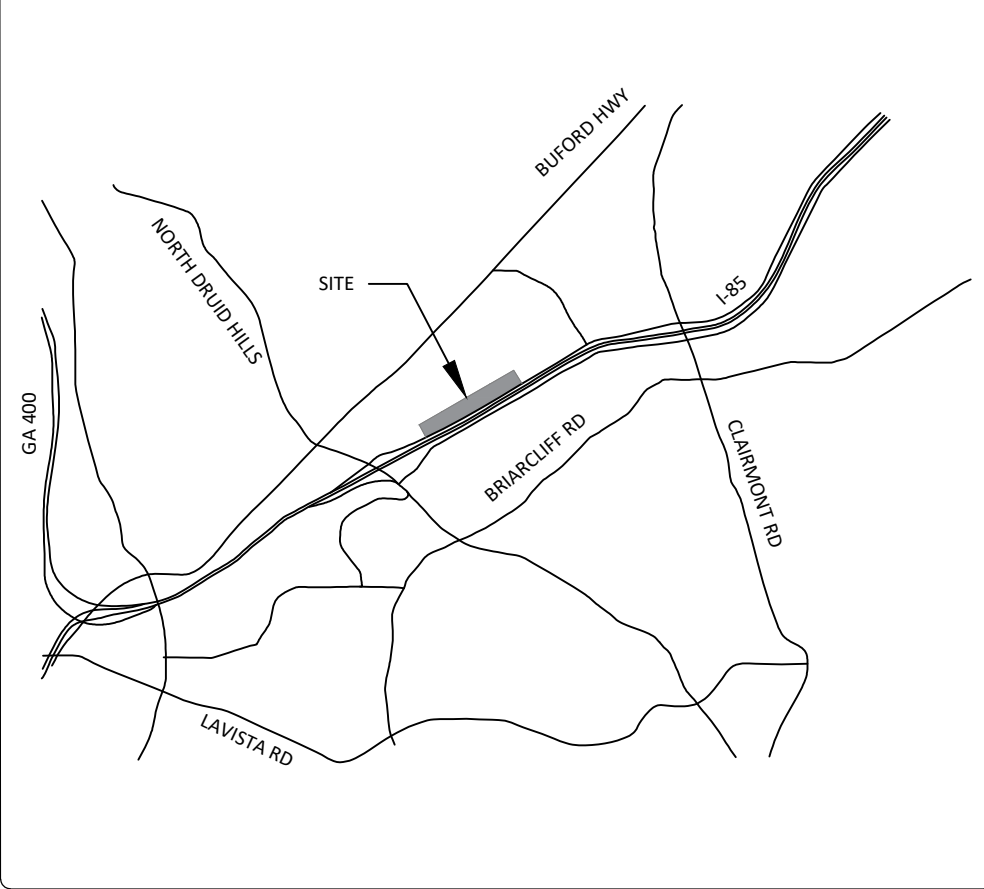
GRID NORTH
 GEORGIA WEST ZONE NAD83 (2011)
 NAVD88 (Geoid 12B)



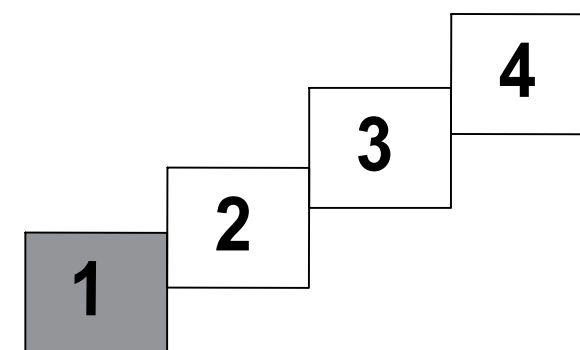
Legend

- Property Corner Found ●
- 1/2" Rebar with Cap Set ○
- Concrete Right-of-way Monument Found ◻
- Un-Monumented Angle Break △
- Not to Scale ~
- Electric Marker ○
- Electric Box □
- Sanitary Sewer Manhole ●
- Storm Manhole ⊕
- Storm Drop Inlet ⊞
- Survey Control ▲
- Light Pole ⊕
- Monitoring Well ●
- Water Line Marker □
- Water Valve ⊕
- Fire Hydrant ⊕
- Communication Line Marker ⊕
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- Paint Striping —
- Chain Link Fence — X —
- Rip Rap —
- Underground Water Supply Line —
- Ditch/Creek/River Centerline —
- Approximate Flood Plain Boundary —
- Property Line —
- Edge of Easement Line - - -

Vicinity Map (Not to Scale)



Sheet Layout Diagram

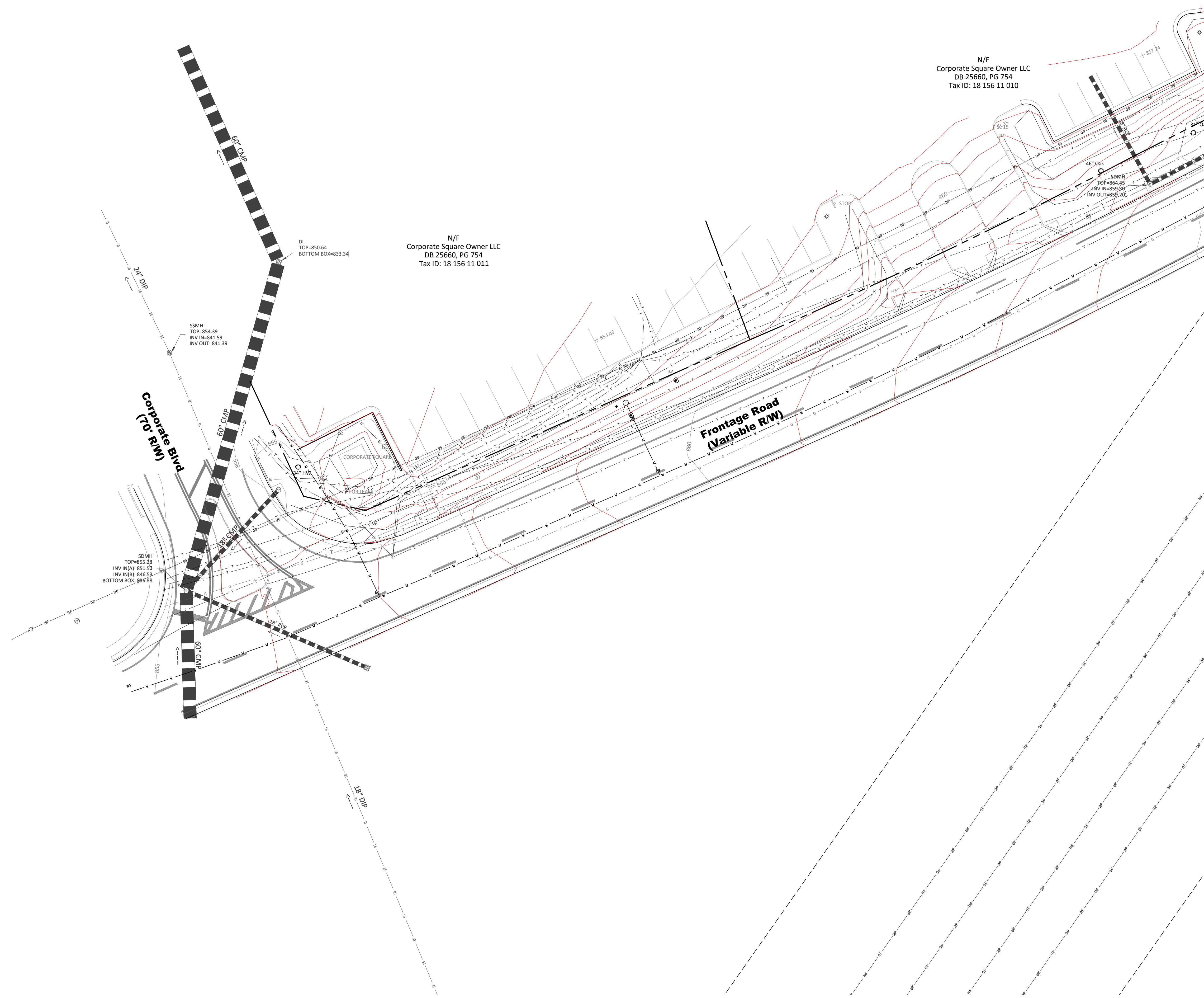


Surveyor's Certification

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Byron T. Freeman, GA RLS #3184
 10/05/2020
 Date

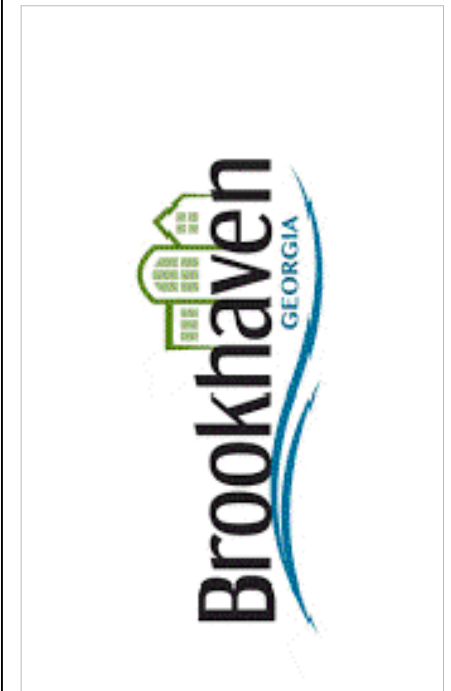


Topographic Survey

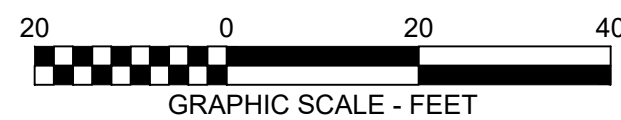
**Northeast Expressway
 Frontage Road**

Land (s):	158 & 157
Date of Acquisition:	April 2020
Land District:	18th District
Date of Field Preparation:	October 2nd, 2020
City, County, & State:	City of Brookhaven, DeKalb County, Georgia
Approved By:	B. Freeman
City, County, & State:	City of Brookhaven, DeKalb County, Georgia
Platinum Geomatics Project No.:	1004-015
Units of Measurement:	U.S. Survey Feet
Sheet No.:	1
Drawing Scale:	1" = 20'

PG
 PLATINUM geomatics
 5039 E. Bowman Drive, Suite 400 | Buford, Georgia 30518 | 678-288-9869
 Platinum Geomatics, LLC is performing Professional Land Surveying Services
 in Georgia under Certificate of Authorization No. LS1001238



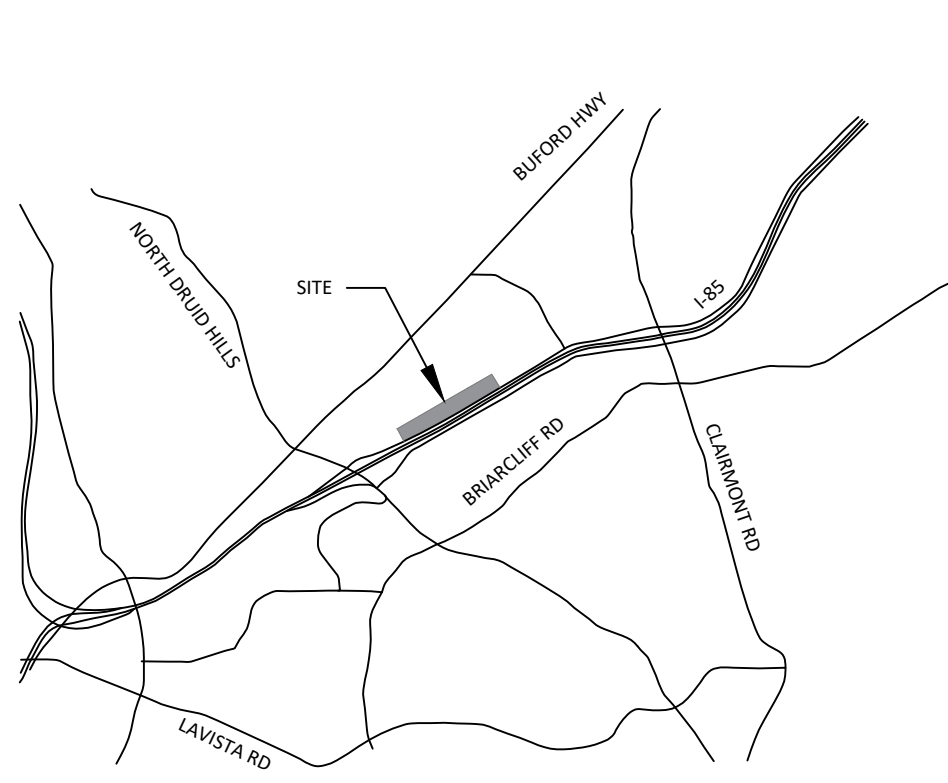
GRID NORTH
GEORGIA WEST ZONE NAD83 (2011)
NAVD88 (Geoid 12B)



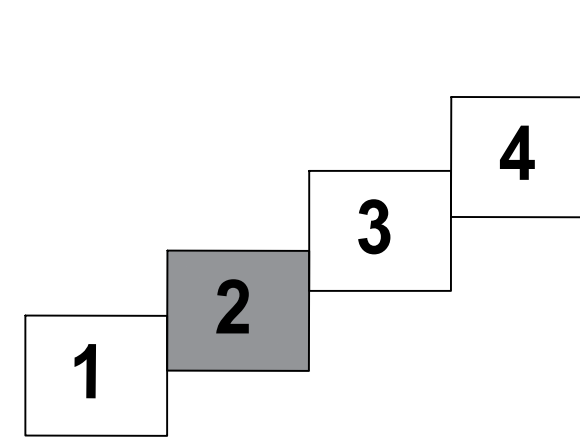
Legend

- Property Corner Found ●
- 1/2" Rebar with Cap Set ○
- Concrete Right-of-way Monument Found ☒
- Un-Monumented Angle Break ▲
- Not to Scale ~~~~~
- Electric Marker ○
- Electric Box □
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- Storm Manhole ⊕
- Storm Drop Inlet ⊞
- Survey Control ▲
- Light Pole ⦿
- Monitoring Well ●
- Water Line Marker □
- Water Valve ⊕
- Fire Hydrant ⊕
- Communication Line Marker ○
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- Chain Link Fence — X —
- Rip Rap ———
- Underground Water Supply Line ———
- Ditch/Creek/River Centerline ———
- Approximate Flood Plain Boundary ———
- Property Line ———
- Edge of Easement Line - - - - -

Vicinity Map (Not to Scale)



Sheet Layout Diagram

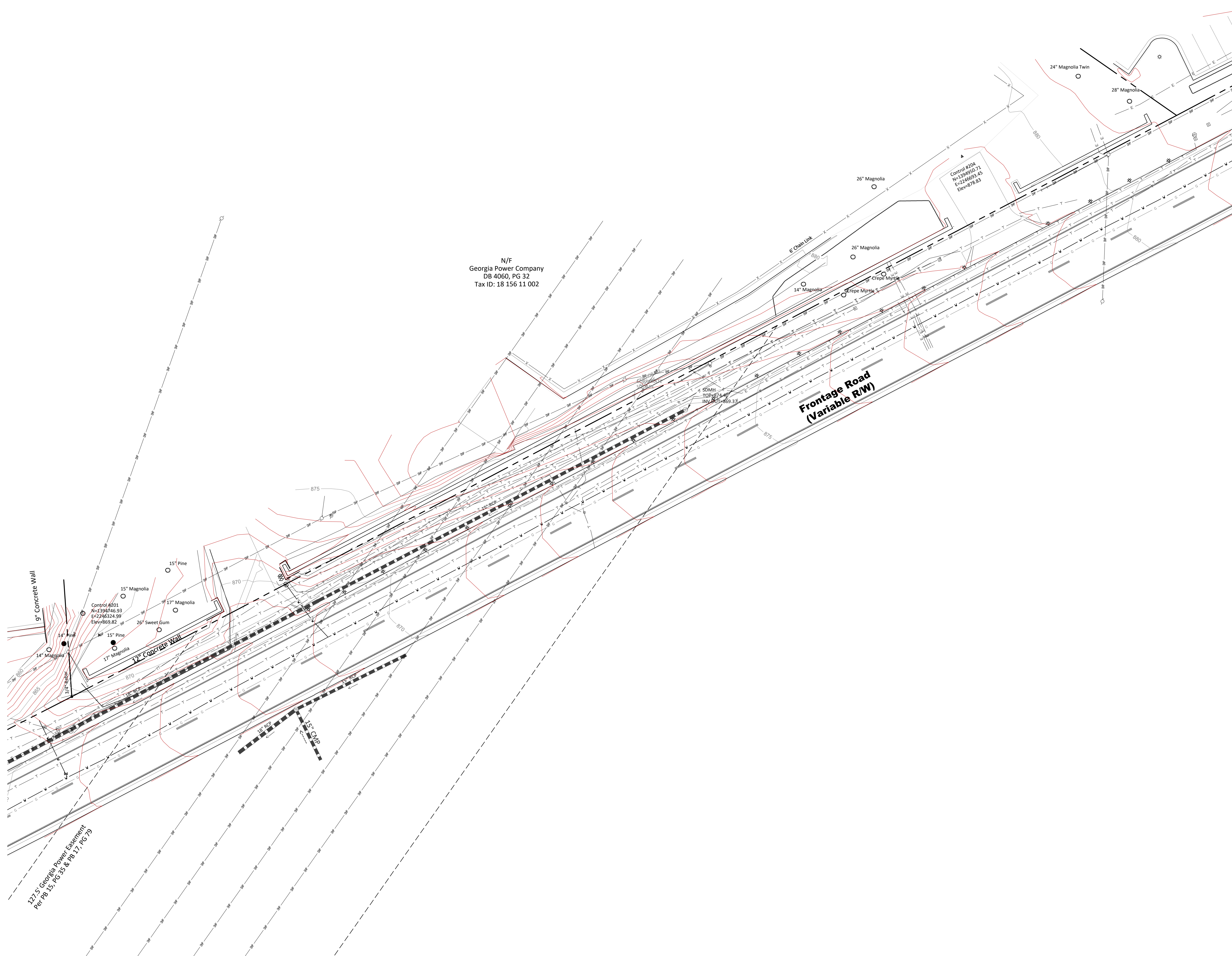


Surveyor's Certification

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Byron T. Freeman, GA RLS #3184
Date: 10/05/2020



Revision Number	Revision Description	Date of Revision

Date of Acquisition: April 2020
Date of Field Preparation: October 2nd, 2020
Approved By: B. Freeman
Platinum Geomatics Project No.: 1004-015
Drawing Scale: 1" = 20'

Land (s): 158 & 157
Land District: 18th District
City, County, & State: City of Brookhaven, DeKalb County, Georgia
Units of Measurement: U.S. Survey Feet
Sheet No.: 2 of 4

Topographic Survey
of
Northeast Expressway
Frontage Road



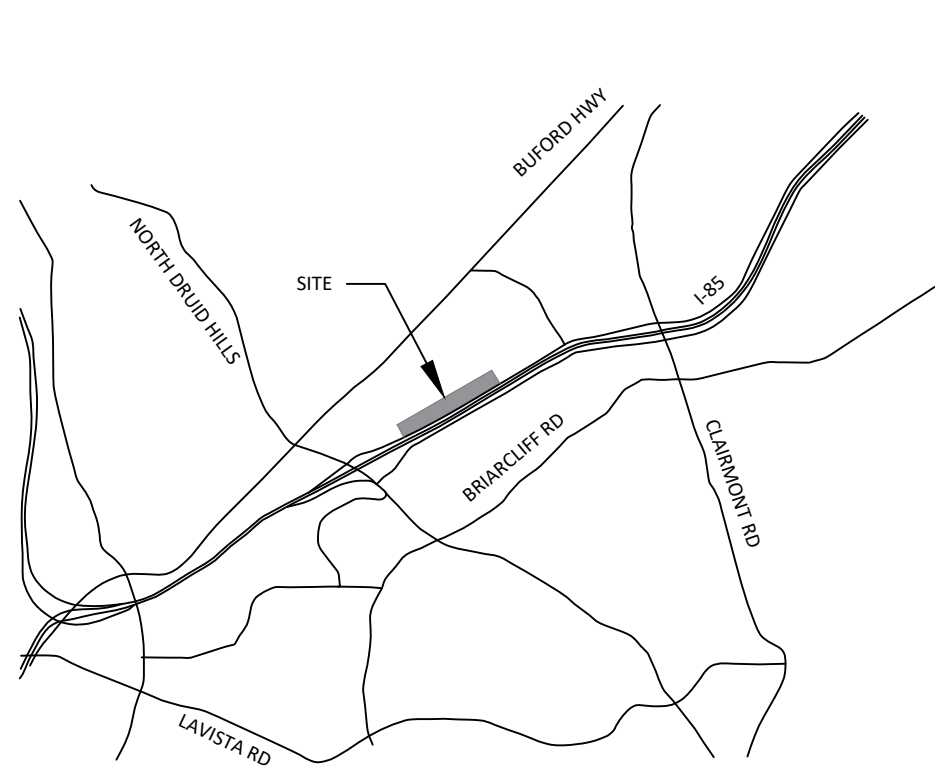
GRID NORTH
GEORGIA WEST ZONE NAD83 (2011)
NAVD88 (Geoid 12B)



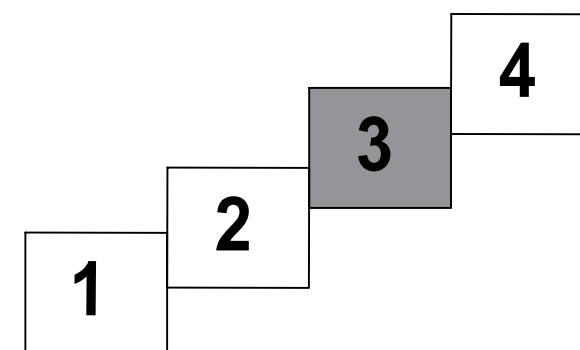
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Vicinity Map (Not to Scale)



Sheet Layout Diagram



Surveyor's Certification

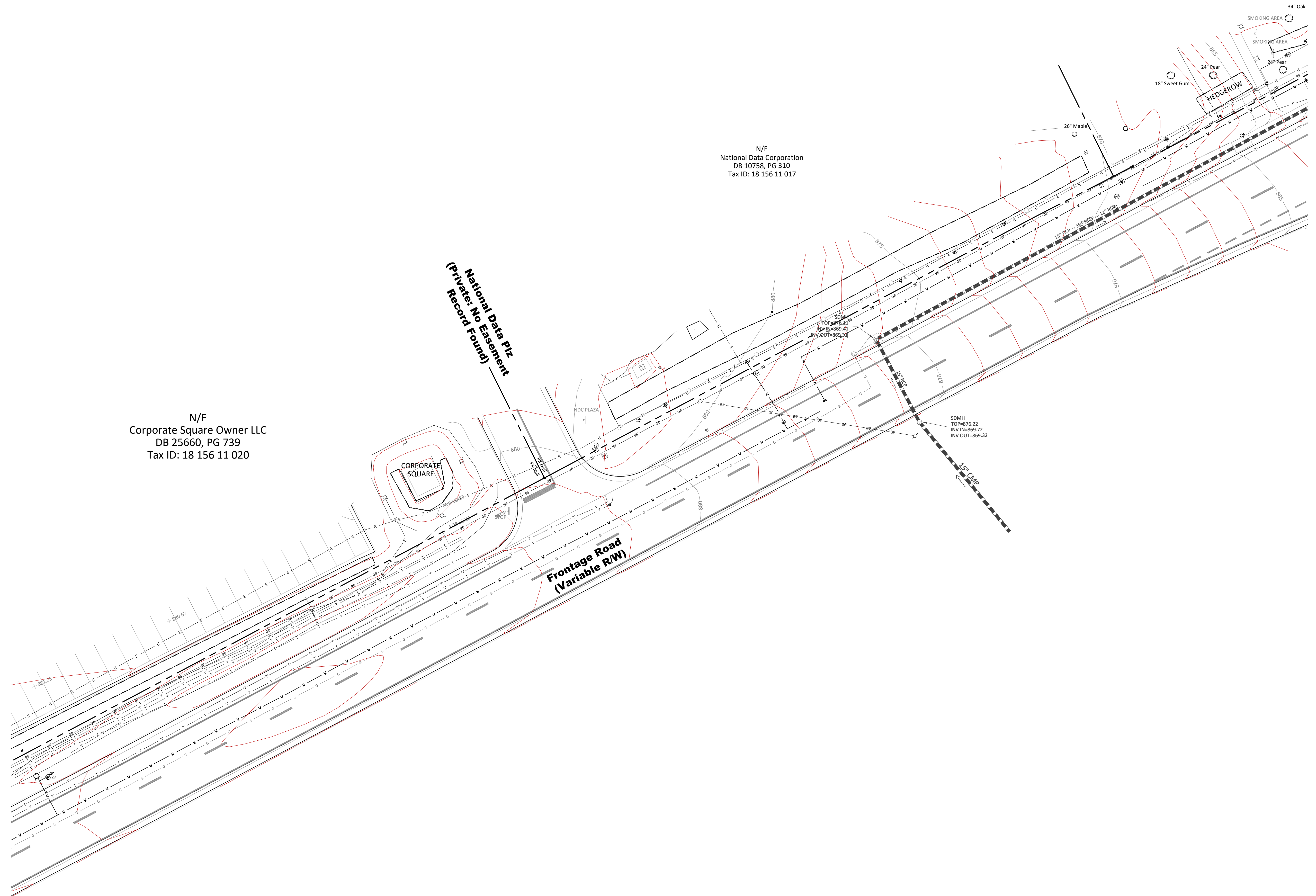
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Byron T. Freeman, GA RLS #3184
Date 10/05/2020

N/F
Corporate Square Owner LLC
DB 25660, PG 739
Tax ID: 18 156 11 020

N/F
National Data Corporation
DB 10758, PG 310
Tax ID: 18 156 11 017



Topographic Survey

**of
Northeast Expressway
Frontage Road**

Date of Acquisition: April 2020
Date of Field Preparation: October 2nd, 2020
Approved By: B. Freeman
Platinum Geomatics Project No.: 1004-015
Drawing Scale: 1" = 20'

Land (s): 158 & 157
Land District: 18th District
City, County, & State: City of Peachtree, DeKalb County, Georgia
Units of Measurement: U.S. Survey Feet
Sheet No.: 3 of 4

Revision Number	Revision Description

PG

PLATINUM geomatics

5039 E. Bowman Drive, Suite 400 | Buford, Georgia 30518 | (770) 288-9869
Platinum Geomatics, LLC is performing Professional Land Surveying Services in Georgia under Certificate of Authorization No. LS1001238



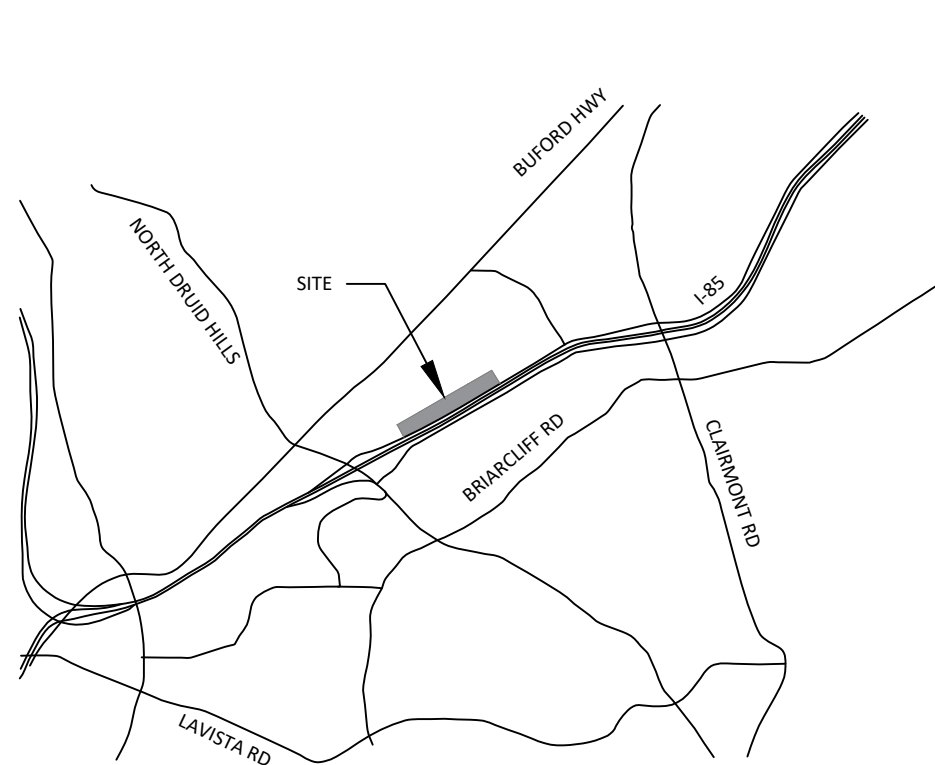
GRID NORTH
 GEORGIA WEST ZONE NAD83 (2011)
 NAVD88 (Goid 12B)



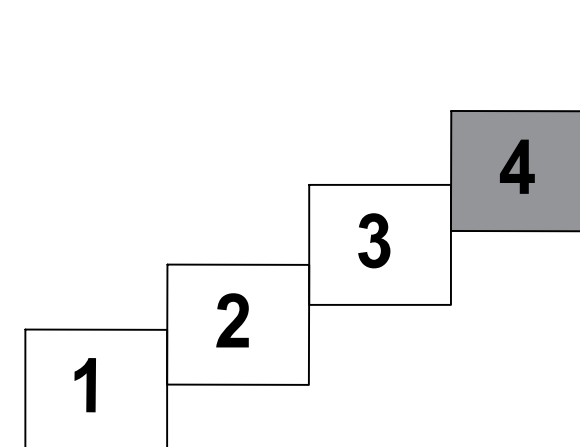
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- Property Line - - - - -
- Edge of Easement Line - - - - -

Vicinity Map (Not to Scale)



Sheet Layout Diagram

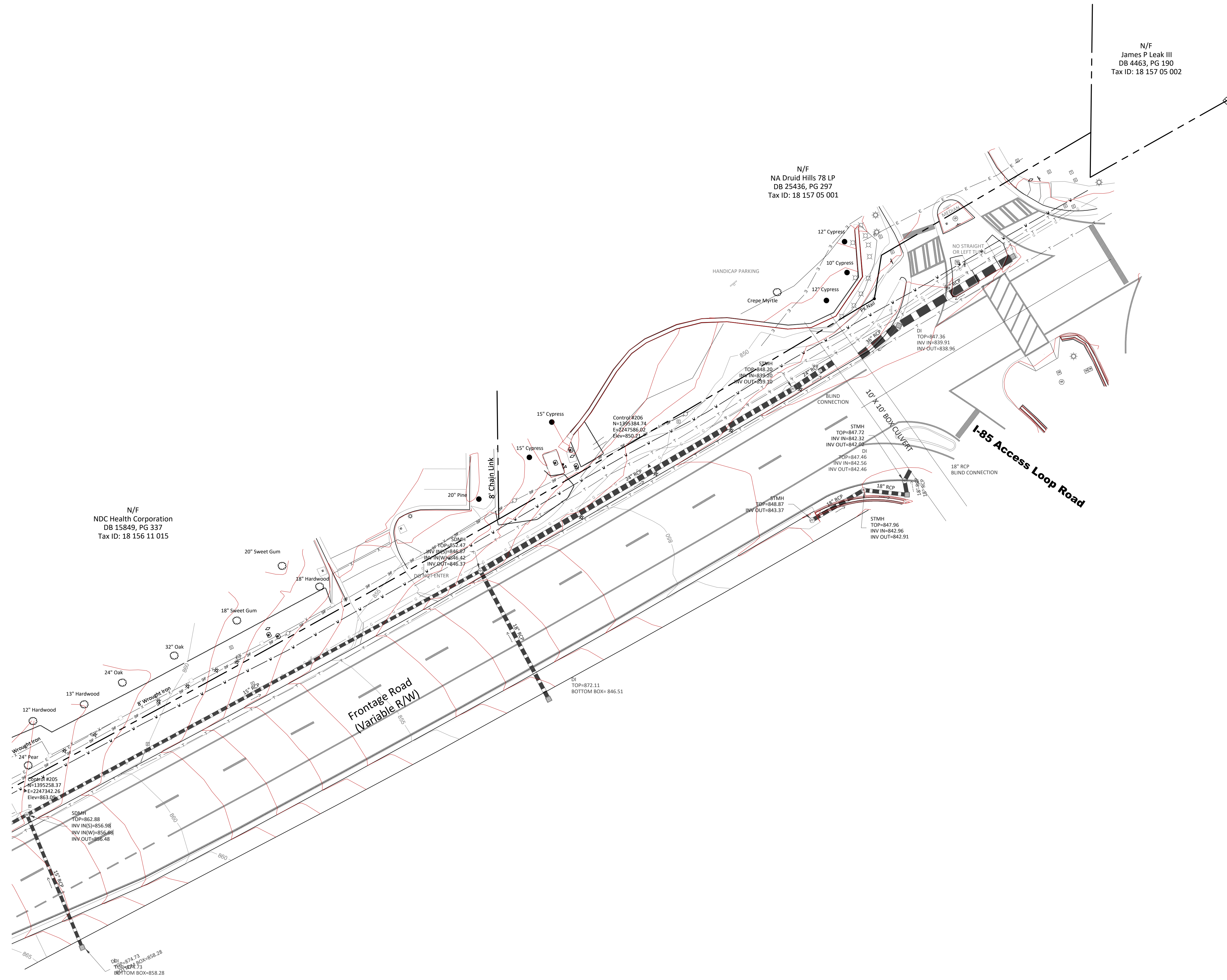


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Byron T. Freeman, GA RLS #3184
 Date 10/05/2020



N/F
 James P Leak III
 DB 4463, PG 190
 Tax ID: 18 157 05 002

N/F
 NA Druid Hills 78 LP
 DB 25436, PG 297
 Tax ID: 18 157 05 001

N/F
 NDC Health Corporation
 DB 15849, PG 337
 Tax ID: 18 156 11 015

Topographic Survey
 of

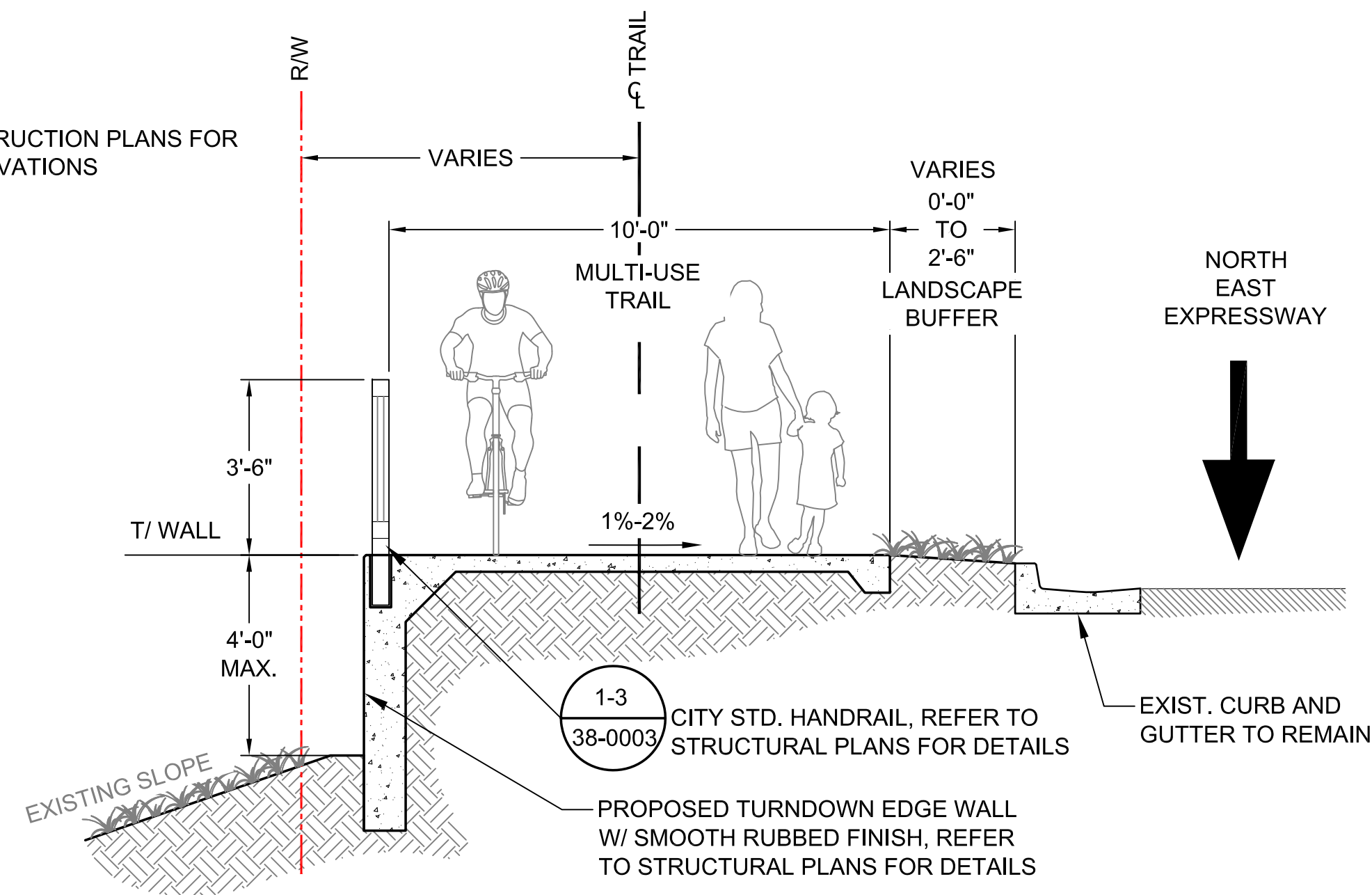
Northeast Expressway Frontage Road

Date of Acquisition:	April 2020	Land (s):	158 & 157
Date of Field Preparation:	October 2nd, 2020	Land District:	18th District
Approved By:	B Freeman	City, County, & State:	City of Peachtree, DeKalb County, Georgia
Platinum Geomatics Project No.:	1041015	Units of Measurement:	U.S. Survey Feet
Drawing Scale:	1" = 20'	Sheet No.:	4



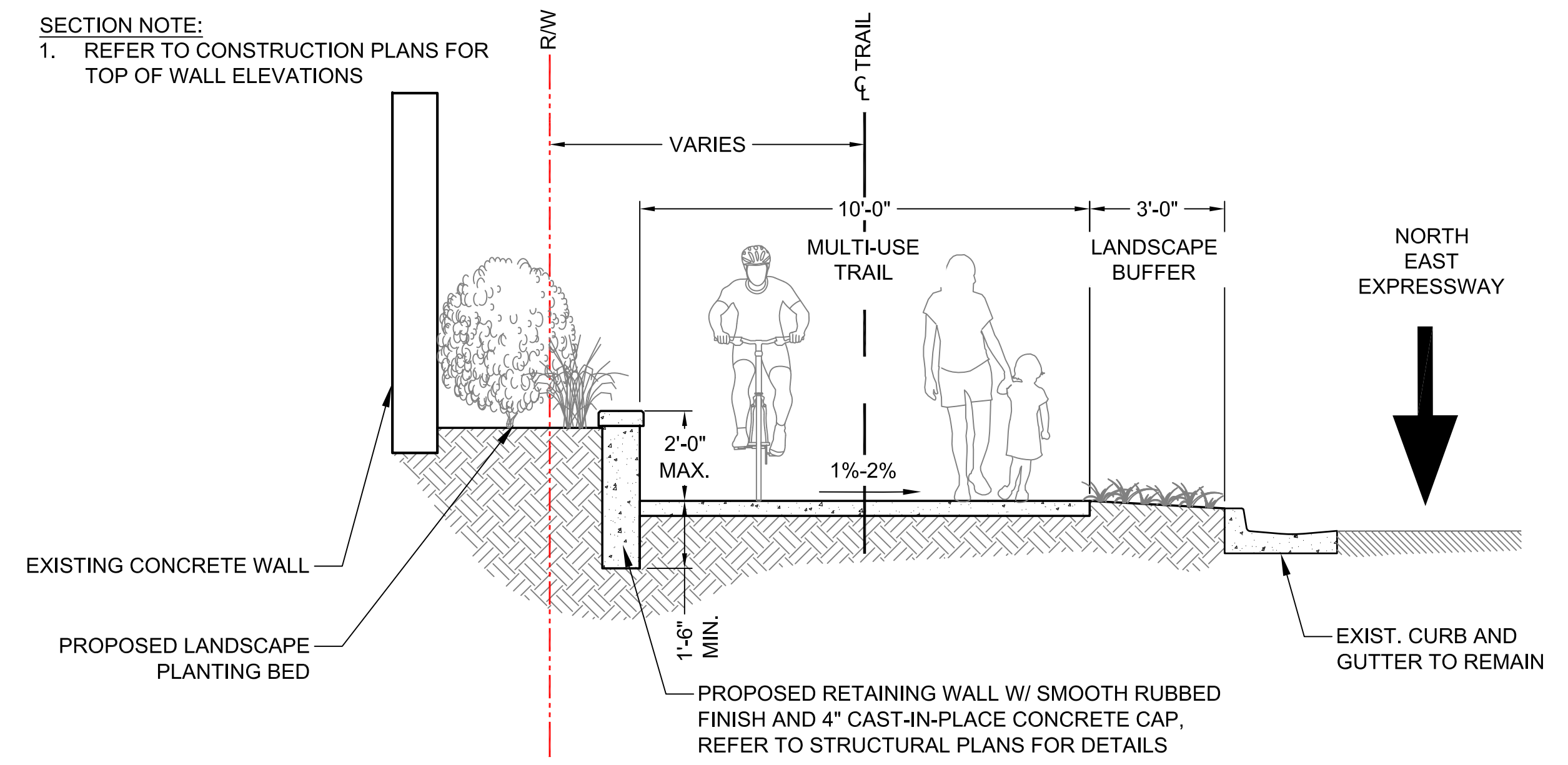
5039 E U Boyman Drive, Suite 400 | Buford, Georgia 30518 | (770) 288-9869
 Platinum Geomatics, LLC is performing Professional Land Surveying Services
 in Georgia under Certificate of Authorization No. LS1001238

SECTION NOTE:
1. REFER TO CONSTRUCTION PLANS FOR TOP OF WALL ELEVATIONS

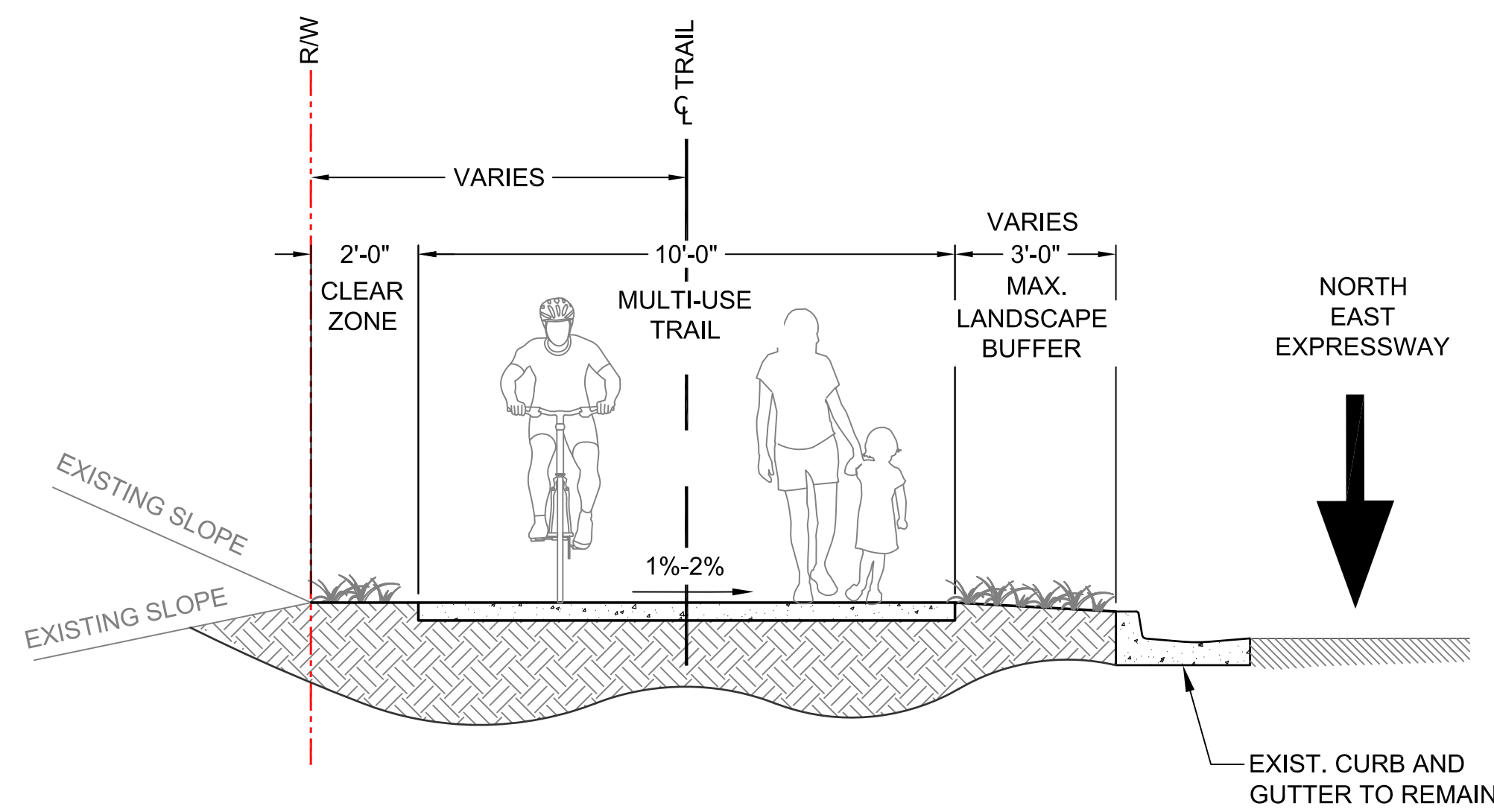


1 TYPICAL SECTION AT TURN DOWN EDGE WALL
05-0001 SCALE: 3/8" = 1'-0"

SECTION NOTE:
1. REFER TO CONSTRUCTION PLANS FOR TOP OF WALL ELEVATIONS



2 TYPICAL SECTION AT RETAINING WALL
05-0001 SCALE: 3/8" = 1'-0"



3 TYPICAL TRAIL SECTION
05-0001 SCALE: 3/8" = 1'-0"



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521
CHARLES M. ABBOTT JR., P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
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O: 404-991-4763 C: 404-637-0682

SCALE AS SHOWN

REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
TYPICAL SECTIONS
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
05-0001

SECTION A: ROADWAY AND TRAIL			
Item Number	Item Description	Units	Quantity
ROADWAY & TRAIL CONSTRUCTION			
432-0200	MILL EXISTING ASPHALT SURFACE, MILL DEPTH VARIES (NDC Health Corporate Driveway)	SY	57
310-5060	GR AGGR SUBBASE CRS, 6 IN, INCL MATL	SY	57
402-3910	1 1/2 IN RECYCLED ASPH CONC 9.5MM SUPERPAVE GP 2 ONLY, INCL BITUM MTL & H LIME	TN	4
402-4012	2 IN RECYCLED ASPH CONC 19MM SUPERPAVE GP 1 OR 2, INCL BITUM MTL & H LIME	TN	7
413-1000	BITUM TACK COAT	GL	13
441-0018	CONC. DRIVEWAY APRON, 8 IN (PER GDOT STD A1 & A2 & GA POWER REFERENCE DETAIL "TYP DRIVE")	SY	210
441-0105	10' CONCRETE TRAIL AND SIDEWALK, 3000PSI 4 IN THICK (INCL ADA RAMPS)	SY	2075
441-0706	CONCRETE MEDIAN, 6 IN	SY	2
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	350
441-6022	CONC. CURB AND GUTTER, 6" x 30", TYPE 2 (PER GDOT STD 9032B)	LF	75
444-1000	SAWED JOINTS IN EXISTING PAVEMENTS (Space between joints to equal trail width)	LF	2000
500-3800	CLASS A CONCRETE, STAIRS, INCL. REINFORCING (STA. 16+22)	LS	1
999-5200	DETECTABLE WARNING SURFACE	SF	340
UTILITIES			
611-8120	ADJUST UTILITY TO GRADE (WATER, GAS, ELECTRIC, MANHOLES, ETC.)	EA	20
611-8100	RELOCATE EXISTING LIGHT (STA: 16+30)	EA	1
611-8050	ADJUST MANHOLE TO GRADE	EA	7
670-9710	RELOCATE EXISTING FIRE HYDRANT, PER PLANS (STA: 1+98; 10+54)	EA	2
STRIPING & MARKINGS			
652-0000	REMOVE EXISTING ROAD STIPING PER SM PLANS	LS	1
652-5301	THERMO SOLID TRAFFIC STRIPE, 8 IN WHITE, 12' WIDE (GDOT CROSSWALKS)	LF	719
653-1704	THERMO SOLID TRAFFIC STRIPE, 24 IN, WHITE (STOP BARS)	LF	24
SIGNAGE			
611-5550	RELOCATE EXISTING SIGNS (BUSINESS, DRIVEWAY, HIGHWAY, ETC. (STA: 3+10; 18+25; 20+35)	EA	3
636-1033	MUTCD HIGHWAY SIGNS	SF	32
636-3010	MUTCD HIGHWAY SQUARE POST, BREAKAWAY 14 FT.	LF	60

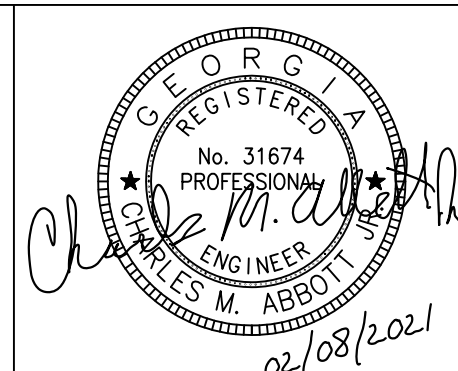
SECTION B: STRUCTURAL ITEMS			
Item Number	Item Description	Units	Quantity
RAILINGS			
515-1000	FALL PROTECTION FENCE FOR WALL #1, SPCL DESIGN (Per City of Brookhaven Details)	LF	236
WALLS			
445-1002	235 LF TURNDOWN EDGE WALL #1, 4' MAX HT. (Bid per structural design specs: STA 0+79 TO 3+15)	LS	1
445-1002	83 LF RETAINING WALL #2, 2' MAX HT. (Bid per structural design specs: STA 4+74 TO 5+57)	LS	1
445-1002	240 LF RETAINING WALL #3, 2' MAX HT. (Bid per structural design specs: STA 5+90 TO 8+30)	LS	1

SECTION C: EROSION CONTROL/STORM DRAINAGE			
Item Number	Item Description	Units	Quantity
163-0402	TEMPORARY CONC. WASHDOWN	EA	2
163-0300	CONSTRUCTION EXIT	EA	3
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	3
163-0529	CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BARRIER, TYPE NS	LF	3382
165-0030	MAINTENANCE OF TEMPORARY SEDIMENT BARRIER, TYPE NS	LS	3382
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP, TYPE F	EA	6
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	LS	6
700-6900	TEMPORARY GRASS SEEDING	AC	0.025
700-8000	FERTILIZER MIX GRADE	AC	0.025
702-9025	BALES OF MULCH, LONG LEAF PINE	EA	44

SECTION D: LANDSCAPE			
Item Number	Item Description	Units	Quantity
700-9400	SHRUB, OCTOBER MAGIC BRIDE CAMELLIA, 5GAL.	EA	12
700-9400	SHRUB, DALLAS BLUES SWITCH GRASS, 3GAL.	EA	24
700-9400	SHRUB, DWARF ARBORVITAE 'FIRE CHIEF', 3GAL.	EA	60
700-9410	SOD, CONTRACTOR TO VERIFY AND MATCH EXISTING	SY	1040
702-9025	BALES OF MULCH, LONG LEAF PINE	EA	10

NOTE: CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES

2 ITEMS UPDATED ON 02/08/2021



PLANS PREPARED BY:
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CITY OF BROOKHAVEN
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REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
DETAILED ESTIMATE
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No.
09-0001

SHEET NOTES:

1. THIS DRAWING IS FOR GENERAL REFERENCE PURPOSES ONLY, CONTRACTOR TO PROVIDE A COMPREHENSIVE TRAFFIC CONTROL PLAN PRIOR TO ANY CONSTRUCTION
2. ALL TEMPORARY TRAFFIC CONTROL MEASURE TO REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
3. ALL TRAFFIC CONTROL MEASURE TO MEET GDOT AND MUTCD REGULATIONS, REFER TO GDOT STD TRAFFIC CONTROL DETAIL ON SHEET 10-0003 AND MUTCD LATEST EDITION

TRAFFIC CONTROL NOTES FOR I-85 FRONTAGE ROAD:

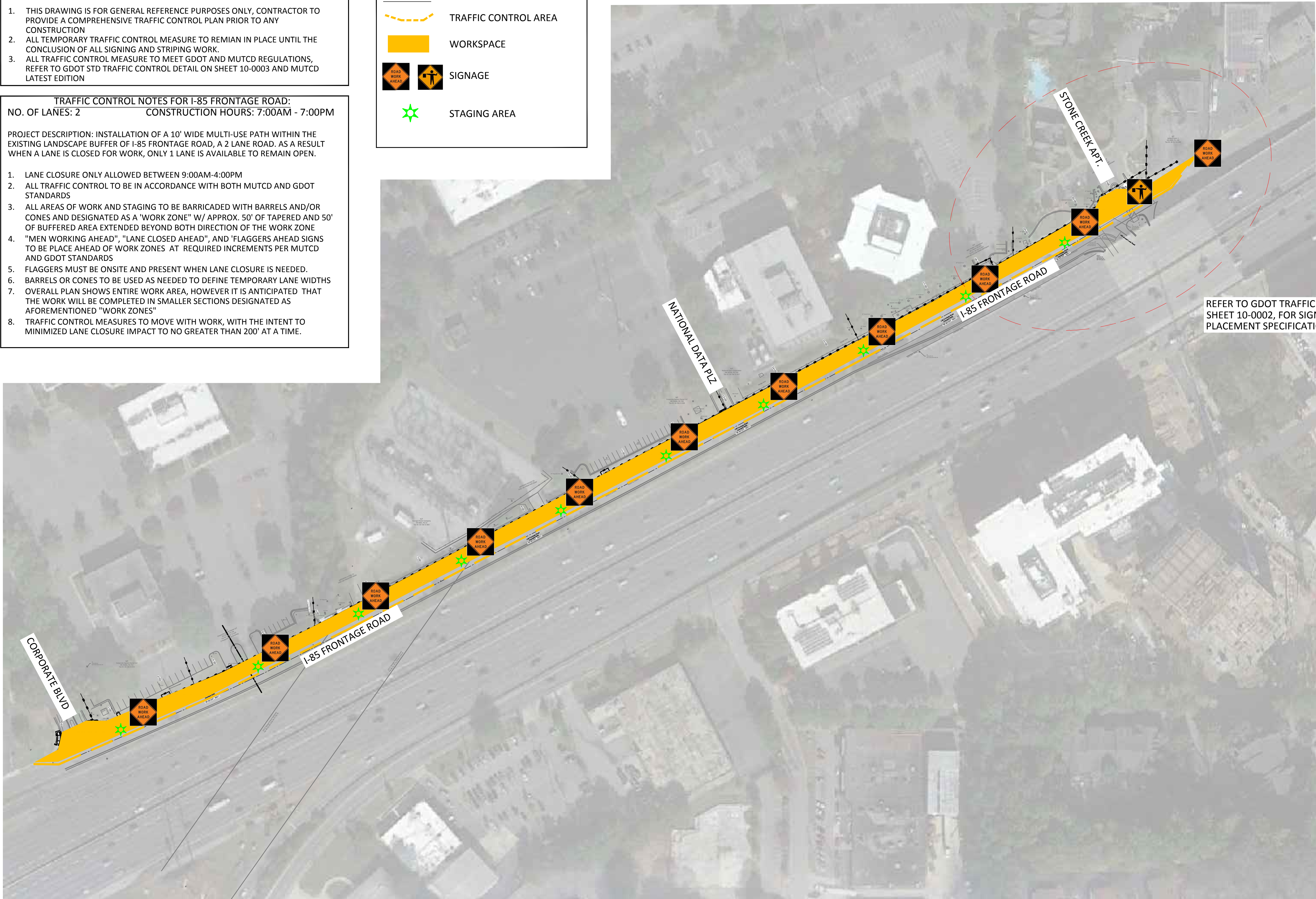
NO. OF LANES: 2 CONSTRUCTION HOURS: 7:00AM - 7:00PM

PROJECT DESCRIPTION: INSTALLATION OF A 10' WIDE MULTI-USE PATH WITHIN THE EXISTING LANDSCAPE BUFFER OF I-85 FRONTAGE ROAD, A 2 LANE ROAD. AS A RESULT WHEN A LANE IS CLOSED FOR WORK, ONLY 1 LANE IS AVAILABLE TO REMAIN OPEN.

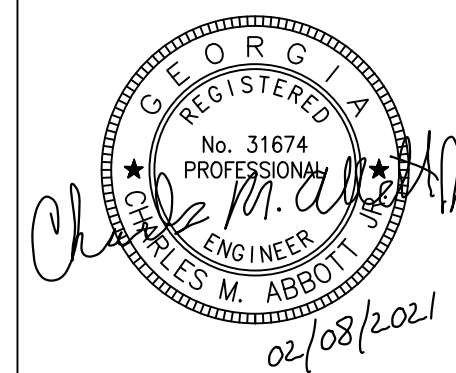
1. LANE CLOSURE ONLY ALLOWED BETWEEN 9:00AM-4:00PM
2. ALL TRAFFIC CONTROL TO BE IN ACCORDANCE WITH BOTH MUTCD AND GDOT STANDARDS
3. ALL AREAS OF WORK AND STAGING TO BE BARRICADED WITH BARRELS AND/OR CONES AND DESIGNATED AS A "WORK ZONE" W/ APPROX. 50' OF TAPERED AND 50' OF BUFFERED AREA EXTENDED BEYOND BOTH DIRECTION OF THE WORK ZONE
4. "MEN WORKING AHEAD", "LANE CLOSED AHEAD", AND "FLAGGERS AHEAD SIGNS TO BE PLACED AHEAD OF WORK ZONES AT REQUIRED INCREMENTS PER MUTCD AND GDOT STANDARDS
5. FLAGGERS MUST BE ONSITE AND PRESENT WHEN LANE CLOSURE IS NEEDED.
6. BARRELS OR CONES TO BE USED AS NEEDED TO DEFINE TEMPORARY LANE WIDTHS
7. OVERALL PLAN SHOWS ENTIRE WORK AREA, HOWEVER IT IS ANTICIPATED THAT THE WORK WILL BE COMPLETED IN SMALLER SECTIONS DESIGNATED AS AFOREMENTIONED "WORK ZONES"
8. TRAFFIC CONTROL MEASURES TO MOVE WITH WORK, WITH THE INTENT TO MINIMIZED LANE CLOSURE IMPACT TO NO GREATER THAN 200' AT A TIME.

LEGEND

- TRAFFIC CONTROL AREA
- WORKSPACE
- SIGNAGE
- STAGING AREA

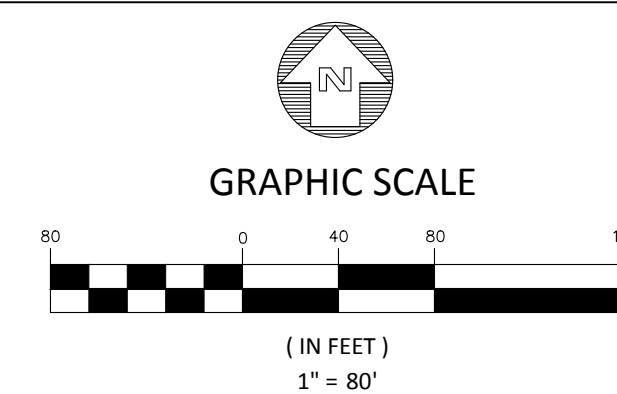


REFER TO GDOT TRAFFIC CONTROL DETAIL, SHEET 10-0002, FOR SIGNAGE AND BARREL PLACEMENT SPECIFICATIONS



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REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

TRAFFIC CONTROL PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
 10-0001

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GENERAL NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.

- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6) INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
- FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
- PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
- (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
- HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

G20-2
48" x 24"
END ROAD WORK

BEGIN TEMP. TRAFFIC CONTROL ZONE

SEE GENERAL NOTE NO. 6

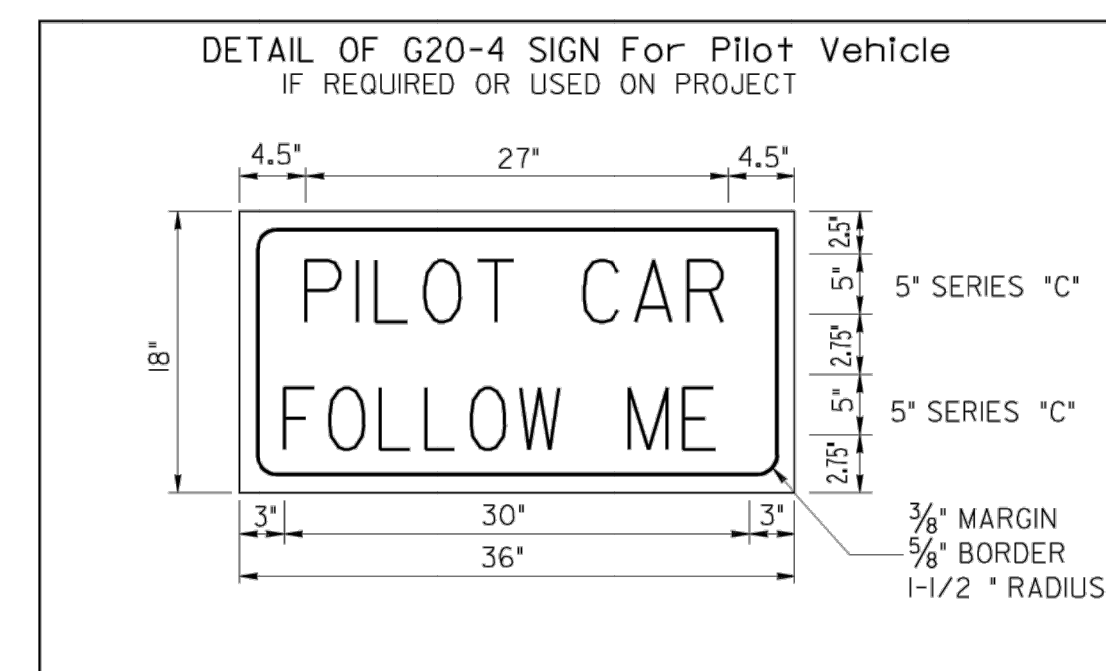
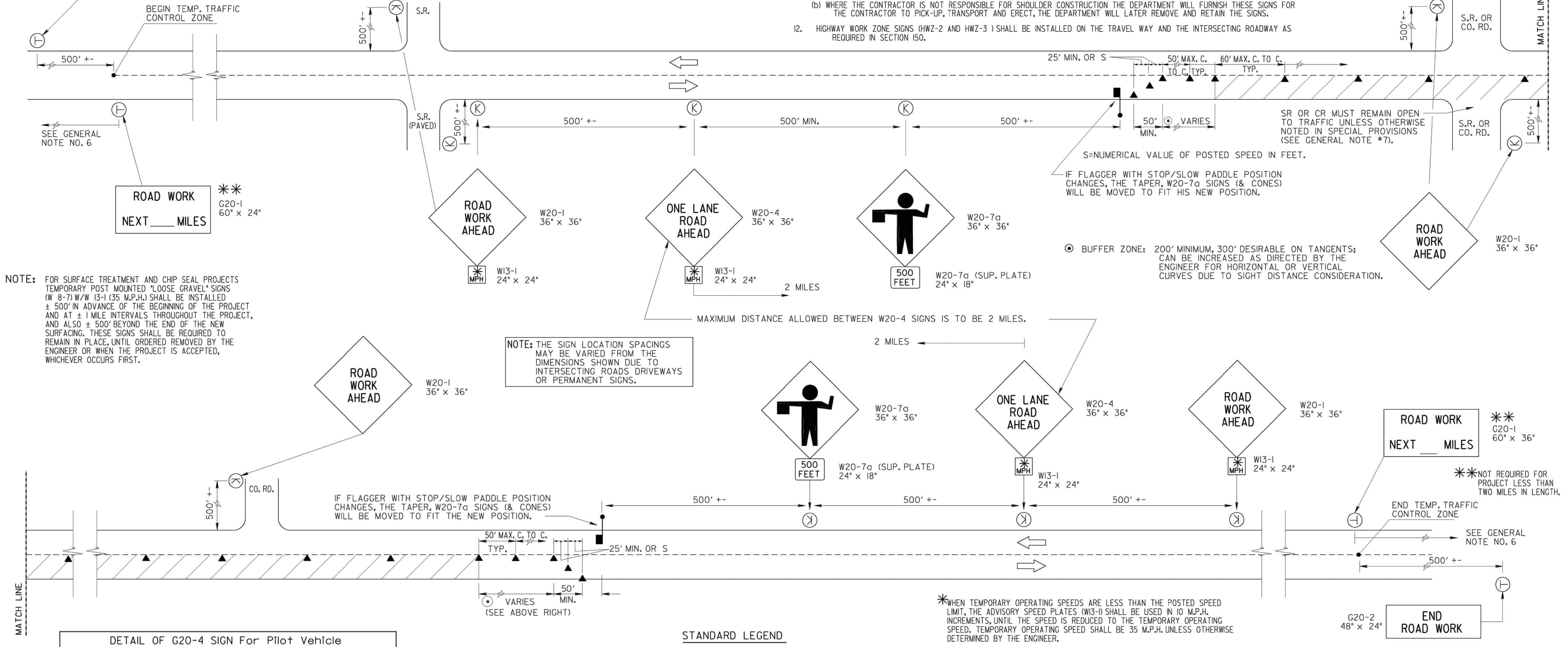
ROAD WORK NEXT _____ MILES
G20-1
60" x 24"

NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-71 W/W 13-1 135 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS, DRIVEWAYS OR PERMANENT SIGNS.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS, DRIVEWAYS OR PERMANENT SIGNS.

***WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.**

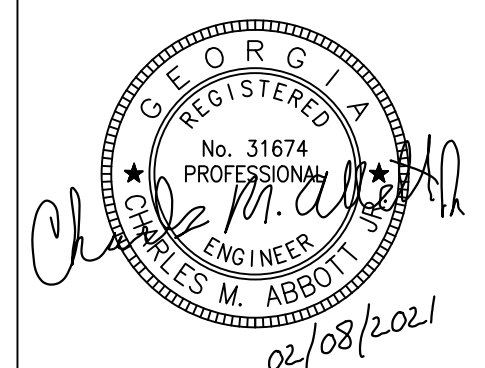


STANDARD LEGEND

- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- ⊕ TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- Ⓚ PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1 FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- ▨ WORK AREA
- ▲ TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

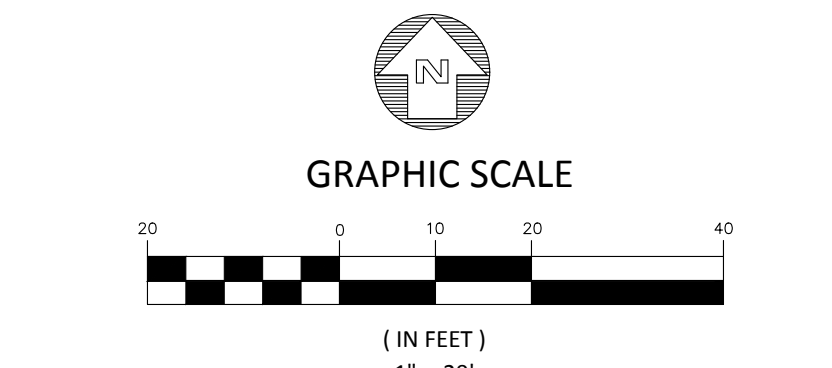
REVISION		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
G10	REMOVED FLAGS AND REV. GENERAL NOTES REV. SIGN	3-30-06	STANDARD TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY NO SCALE REV. & REDR. JULY, 1999 NUMBER 9102	
G20-2A	TO G20-2			
DES. (SUBMITTED) <i>[Signature]</i>				
DRAWN. STATE ROAD & AIRPORT DESIGN ENGINEER				
TRAF. (APPROVED) <i>[Signature]</i>			CHIEF ENGINEER	
CHK.				

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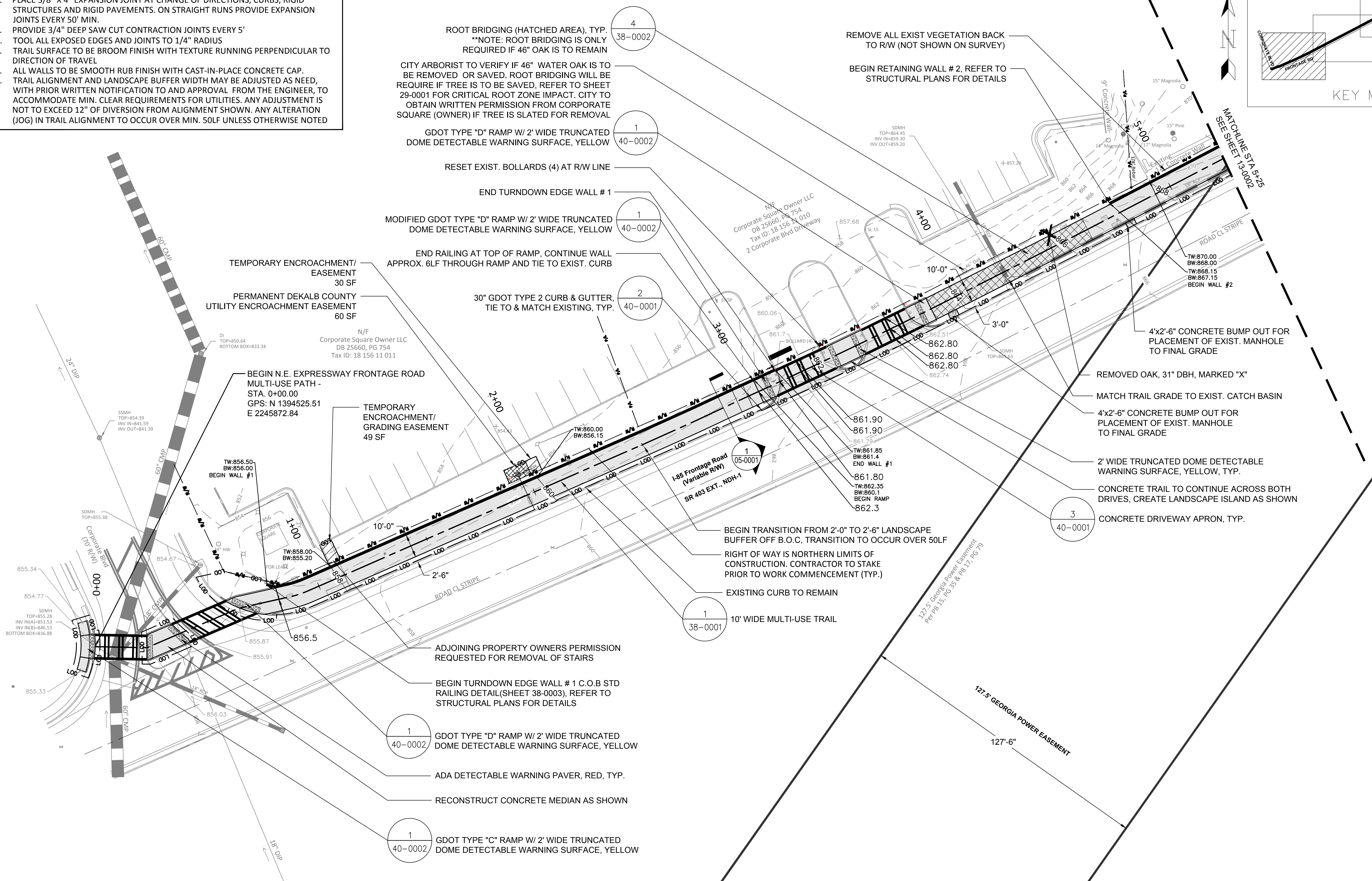
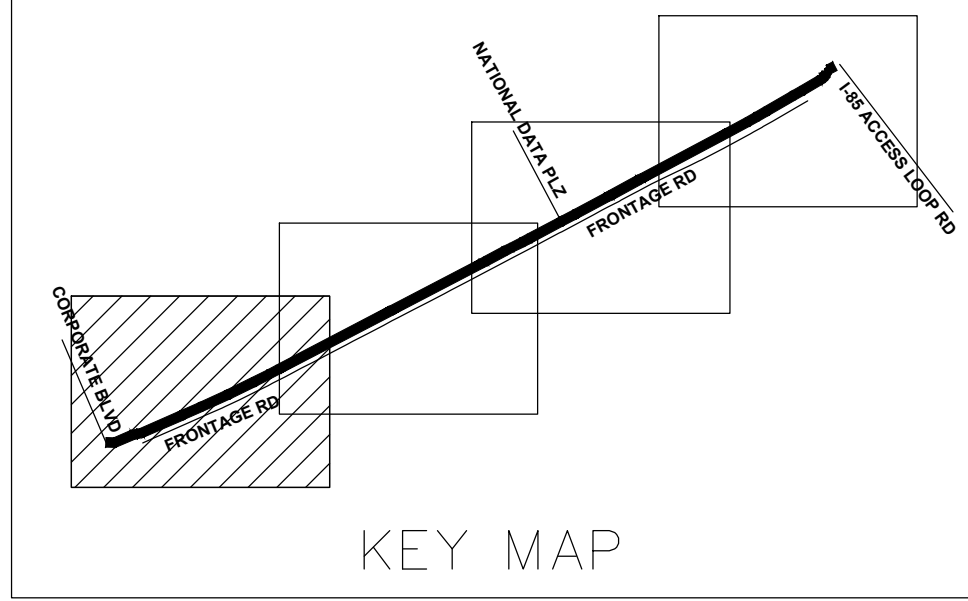


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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
TRAFFIC CONTROL DETAIL
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No. 10-0002

CONSTRUCTION NOTES:

- TRAIL TO BE 4" THICK 3000 PSI CONCRETE STANDARD, WITH 8" THICK CONCRETE WITHIN LIMITS OF RADII
- PLACE 3/8" X 4" EXPANSION JOINT AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES AND RIGID PAVEMENTS. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 50' MIN.
- PROVIDE 3/4" DEEP SAW CUT CONTRACTION JOINTS EVERY 5'
- TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS
- TRAIL SURFACE TO BE BROOM FINISH WITH TEXTURE RUNNING PERPENDICULAR TO DIRECTION OF TRAVEL
- ALL WALLS TO BE SMOOTH RUB FINISH WITH CAST-IN-PLACE CONCRETE CAP.
- TRAIL ALIGNMENT AND LANDSCAPE BUFFER WIDTH MAY BE ADJUSTED AS NEEDED, WITH PRIOR WRITTEN NOTIFICATION TO AND APPROVAL FROM THE ENGINEER, TO ACCOMMODATE MIN. CLEAR REQUIREMENTS FOR UTILITIES. ANY ADJUSTMENT IS NOT TO EXCEED 12" OF DIVERSION FROM ALIGNMENT SHOWN. ANY ALTERATION (JOG) IN TRAIL ALIGNMENT TO OCCUR OVER MIN. 50LF UNLESS OTHERWISE NOTED



- ROOT BRIDGING (HATCHED AREA), TYP. **NOTE: ROOT BRIDGING IS ONLY REQUIRED IF 46" OAK IS TO REMAIN
- CITY ARBORIST TO VERIFY IF 46" WATER OAK IS TO BE REMOVED OR SAVED. ROOT BRIDGING WILL BE REQUIRED IF TREE IS TO BE SAVED, REFER TO SHEET 29-0001 FOR CRITICAL ROOT ZONE IMPACT. CITY TO OBTAIN WRITTEN PERMISSION FROM CORPORATE SQUARE (OWNER) IF TREE IS SLATED FOR REMOVAL
- GDOT TYPE "D" RAMP W/ 2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW
- RESET EXIST. BOLLARDS (4) AT R/W LINE
- END TURNDOWN EDGE WALL # 1
- MODIFIED GDOT TYPE "D" RAMP W/ 2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW
- END RAILING AT TOP OF RAMP, CONTINUE WALL APPROX. 6LF THROUGH RAMP AND TIE TO EXIST. CURB
- 30" GDOT TYPE 2 CURB & GUTTER, TIE TO & MATCH EXISTING, TYP.
- TEMPORARY ENCROACHMENT/EASEMENT 30 SF
- PERMANENT DEKALB COUNTY UTILITY ENCROACHMENT EASEMENT 60 SF
- BEGIN N.E. EXPRESSWAY FRONTAGE ROAD MULTI-USE PATH - STA. 0+00.00 GPS: N 1394525.51 E 2245872.84
- TEMPORARY ENCROACHMENT/ GRADING EASEMENT 49 SF
- ADJOINING PROPERTY OWNERS PERMISSION REQUESTED FOR REMOVAL OF STAIRS
- BEGIN TURNDOWN EDGE WALL # 1 C.O.B STD RAILING DETAIL(SHEET 38-0003), REFER TO STRUCTURAL PLANS FOR DETAILS
- GDOT TYPE "D" RAMP W/ 2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW
- ADA DETECTABLE WARNING PAVER, RED, TYP.
- RECONSTRUCT CONCRETE MEDIAN AS SHOWN
- GDOT TYPE "C" RAMP W/ 2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW

REMOVE ALL EXIST VEGETATION BACK TO R/W (NOT SHOWN ON SURVEY)

BEGIN RETAINING WALL # 2, REFER TO STRUCTURAL PLANS FOR DETAILS

4'x2'-6" CONCRETE BUMP OUT FOR PLACEMENT OF EXIST. MANHOLE TO FINAL GRADE

REMOVED OAK, 31" DBH, MARKED "X"

MATCH TRAIL GRADE TO EXIST. CATCH BASIN

4'x2'-6" CONCRETE BUMP OUT FOR PLACEMENT OF EXIST. MANHOLE TO FINAL GRADE

2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW, TYP.

CONCRETE TRAIL TO CONTINUE ACROSS BOTH DRIVES, CREATE LANDSCAPE ISLAND AS SHOWN

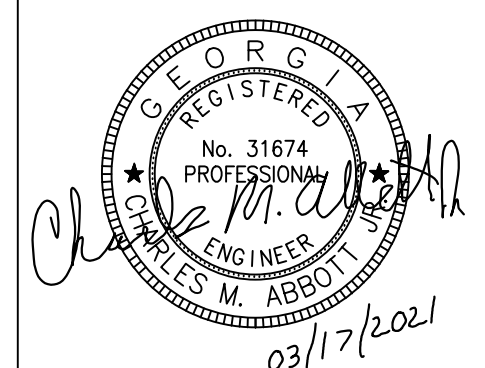
CONCRETE DRIVEWAY APRON, TYP.

BEGIN TRANSITION FROM 2'-0" TO 2'-6" LANDSCAPE BUFFER OFF B.O.C, TRANSITION TO OCCUR OVER 50LF

RIGHT OF WAY IS NORTHERN LIMITS OF CONSTRUCTION. CONTRACTOR TO STAKE PRIOR TO WORK COMMENCEMENT (TYP.)

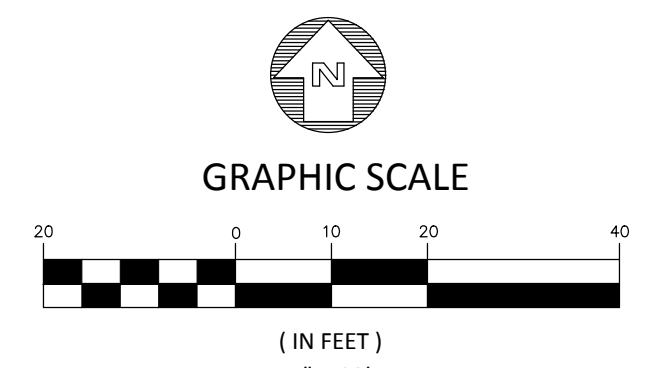
EXISTING CURB TO REMAIN

10' WIDE MULTI-USE TRAIL



PLANS PREPARED BY:
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REV. 3 GDOT COMMENTS	03/17/2021

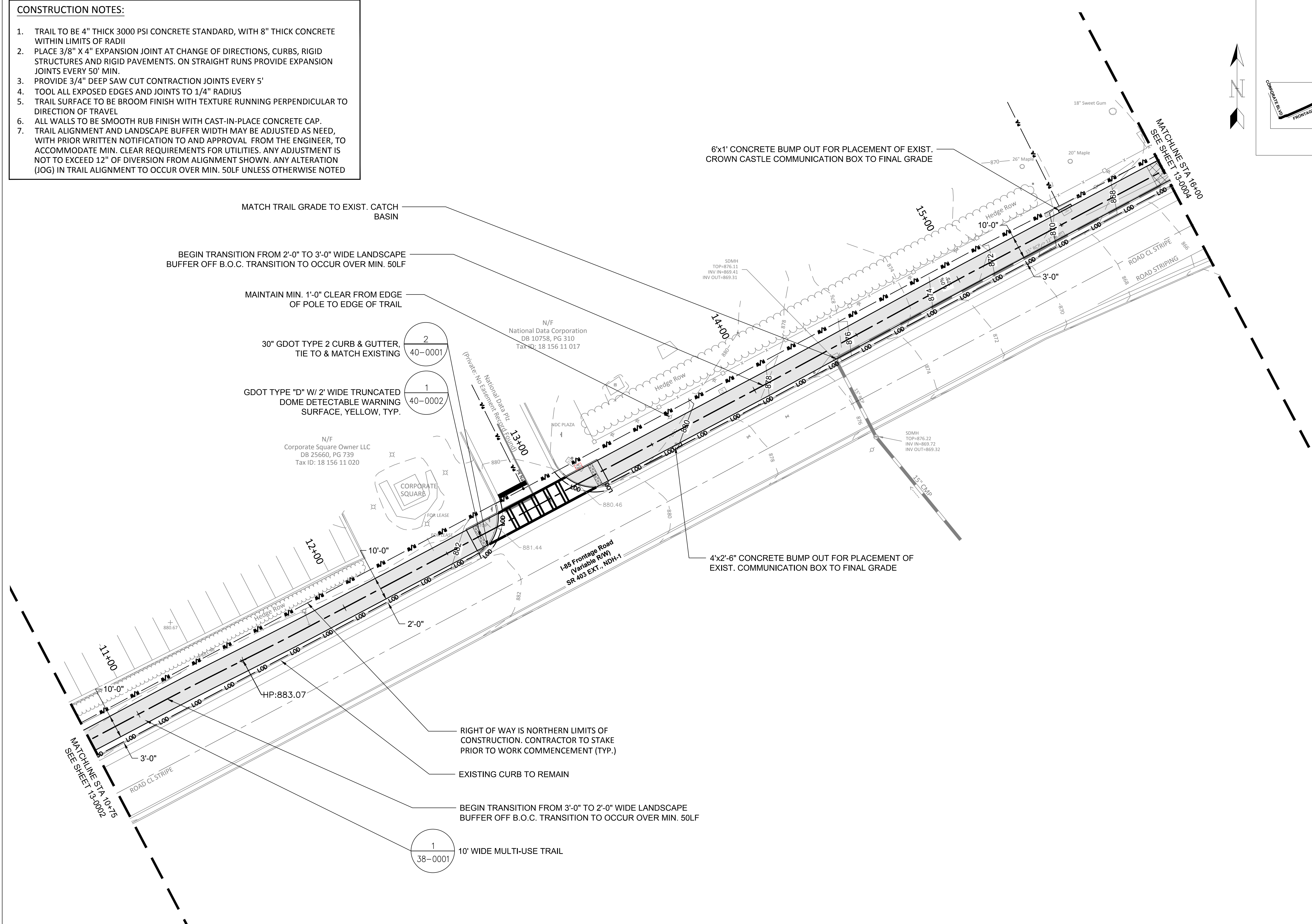
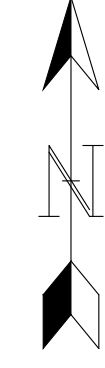
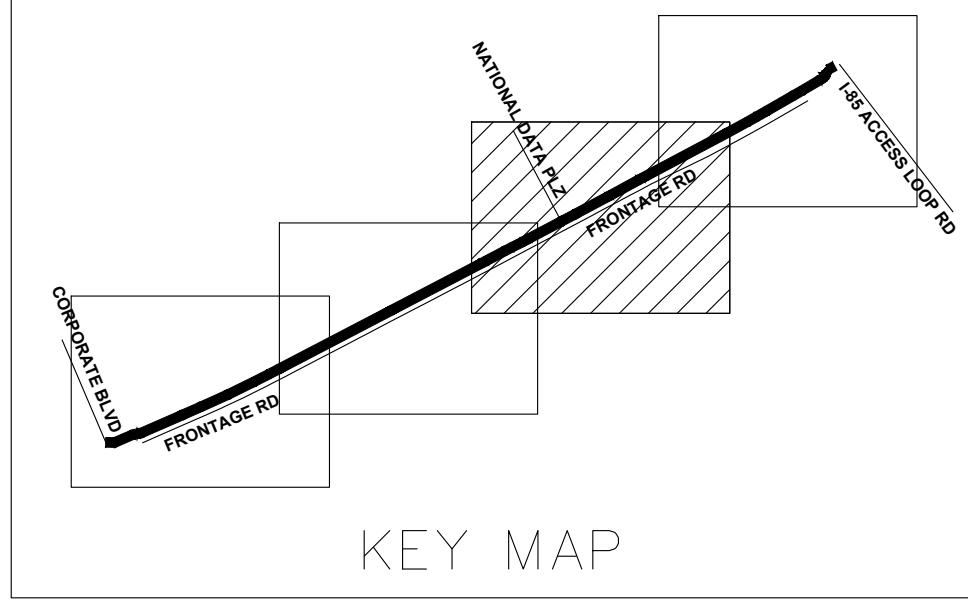
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

MAINLINE PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
13-0001

CONSTRUCTION NOTES:

- TRAIL TO BE 4" THICK 3000 PSI CONCRETE STANDARD, WITH 8" THICK CONCRETE WITHIN LIMITS OF RADII
- PLACE 3/8" X 4" EXPANSION JOINT AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES AND RIGID PAVEMENTS. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 50' MIN.
- PROVIDE 3/4" DEEP SAW CUT CONTRACTION JOINTS EVERY 5'
- TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS
- TRAIL SURFACE TO BE BROOM FINISH WITH TEXTURE RUNNING PERPENDICULAR TO DIRECTION OF TRAVEL
- ALL WALLS TO BE SMOOTH RUB FINISH WITH CAST-IN-PLACE CONCRETE CAP.
- TRAIL ALIGNMENT AND LANDSCAPE BUFFER WIDTH MAY BE ADJUSTED AS NEED, WITH PRIOR WRITTEN NOTIFICATION TO AND APPROVAL FROM THE ENGINEER, TO ACCOMMODATE MIN. CLEAR REQUIREMENTS FOR UTILITIES. ANY ADJUSTMENT IS NOT TO EXCEED 12" OF DIVERSION FROM ALIGNMENT SHOWN. ANY ALTERATION (JOG) IN TRAIL ALIGNMENT TO OCCUR OVER MIN. 50LF UNLESS OTHERWISE NOTED



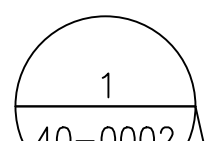
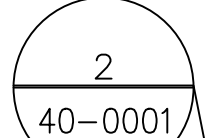
MATCH TRAIL GRADE TO EXIST. CATCH BASIN

BEGIN TRANSITION FROM 2'-0" TO 3'-0" WIDE LANDSCAPE BUFFER OFF B.O.C. TRANSITION TO OCCUR OVER MIN. 50LF

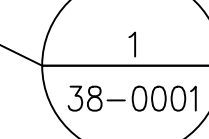
MAINTAIN MIN. 1'-0" CLEAR FROM EDGE OF POLE TO EDGE OF TRAIL

30" GDOT TYPE 2 CURB & GUTTER, TIE TO & MATCH EXISTING

GDOT TYPE "D" W/ 2' WIDE TRUNCATED DOME DETECTABLE WARNING SURFACE, YELLOW, TYP.



N/F Corporate Square Owner LLC DB 25660, PG 739 Tax ID: 18 156 11 020

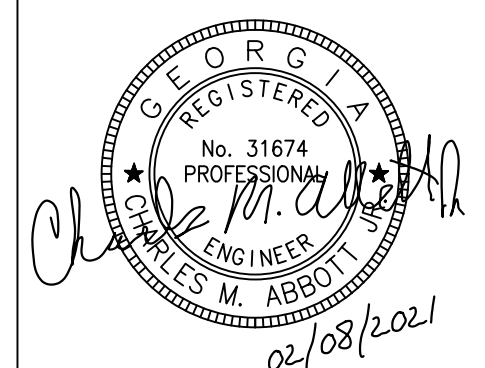


RIGHT OF WAY IS NORTHERN LIMITS OF CONSTRUCTION. CONTRACTOR TO STAKE PRIOR TO WORK COMMENCEMENT (TYP.)

EXISTING CURB TO REMAIN

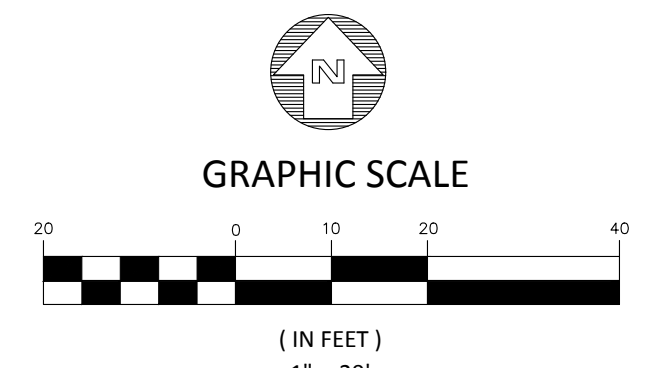
BEGIN TRANSITION FROM 3'-0" TO 2'-0" WIDE LANDSCAPE BUFFER OFF B.O.C. TRANSITION TO OCCUR OVER MIN. 50LF

10' WIDE MULTI-USE TRAIL



PLANS PREPARED BY:
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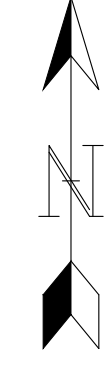
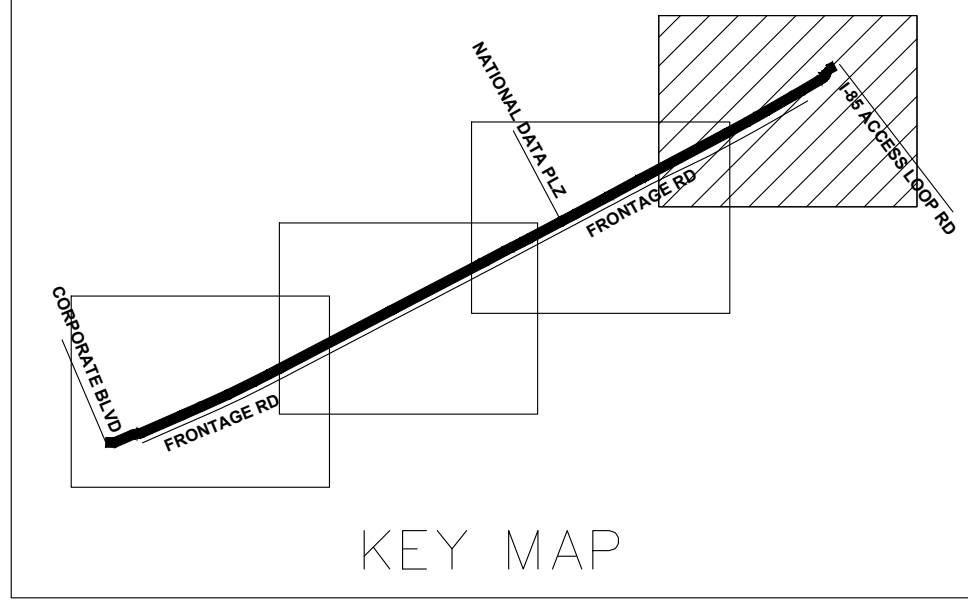


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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
MAINLINE PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No. 13-0003

CONSTRUCTION NOTES:

- TRAIL TO BE 4" THICK 3000 PSI CONCRETE STANDARD, WITH 8" THICK CONCRETE WITHIN LIMITS OF RADI
- PLACE 3/8" X 4" EXPANSION JOINT AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES AND RIGID PAVEMENTS. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 50' MIN.
- PROVIDE 3/4" DEEP SAW CUT CONTRACTION JOINTS EVERY 5'
- TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS
- TRAIL SURFACE TO BE BROOM FINISH WITH TEXTURE RUNNING PERPENDICULAR TO DIRECTION OF TRAVEL
- ALL WALLS TO BE SMOOTH RUB FINISH WITH CAST-IN-PLACE CONCRETE CAP.
- TRAIL ALIGNMENT AND LANDSCAPE BUFFER WIDTH MAY BE ADJUSTED AS NEEDED, WITH PRIOR WRITTEN NOTIFICATION TO AND APPROVAL FROM THE ENGINEER, TO ACCOMMODATE MIN. CLEAR REQUIREMENTS FOR UTILITIES. ANY ADJUSTMENT IS NOT TO EXCEED 12" OF DIVERSION FROM ALIGNMENT SHOWN. ANY ALTERATION (JOG) IN TRAIL ALIGNMENT TO OCCUR OVER MIN. 50LF UNLESS OTHERWISE NOTED



END N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH -
STA. 20+68.12
GPS: N 1395469.97
E 2247702.40

30" GDOT TYPE 2 CURB & GUTTER,
TIE TO & MATCH EXISTING, TYP.

GDOT TYPE "D" RAMP W/ 2' WIDE TRUNCATED DOME
DETECTABLE WARNING SURFACE, YELLOW, TYP.

TEMPORARY
ENCROACHMENT/
GRADING EASEMENT
515 SF

DRIVEWAY CROSS
SECTION
13-0004

- END TRAIL TRANSITION FROM 10' WIDE TO 9' WIDTH OVER MIN. 25LF
- BEGIN TRAIL TRANSITION FROM 10' WIDE TO 9' WIDTH OVER MIN. 25LF
- 7"x2'-6" CONCRETE BUMP OUT FOR PLACE MCI COMMUNICATION BOX TO FINAL GRAL
- MATCH TRAIL GRADE TO EXIST. CATCH BASIN

- RIGHT OF WAY IS NORTHERN LIMITS OF CONSTRUCTION. CONTRACTOR TO STAKE PRIOR TO WORK COMMENCEMENT (TYP.)
- EXISTING CURB TO REMAIN
- REMOVE EXIST. CONCRETE WALK FROM APPROX. STA. 18+60 TO 20+50

1
40-0001 CONCRETE DRIVEWAY APRON,
CONTINUE TRAIL ACROSS DRIVE

W/ 2' WIDE TRUNCATED DOME DETECTABLE
WARNING SURFACE, YELLOW

2
40-0001 30" GDOT TYPE 2 CURB & GUTTER,
TIE TO & MATCH EXISTING, TYP.

1
38-0001 10' WIDE MULTI-USE TRAIL

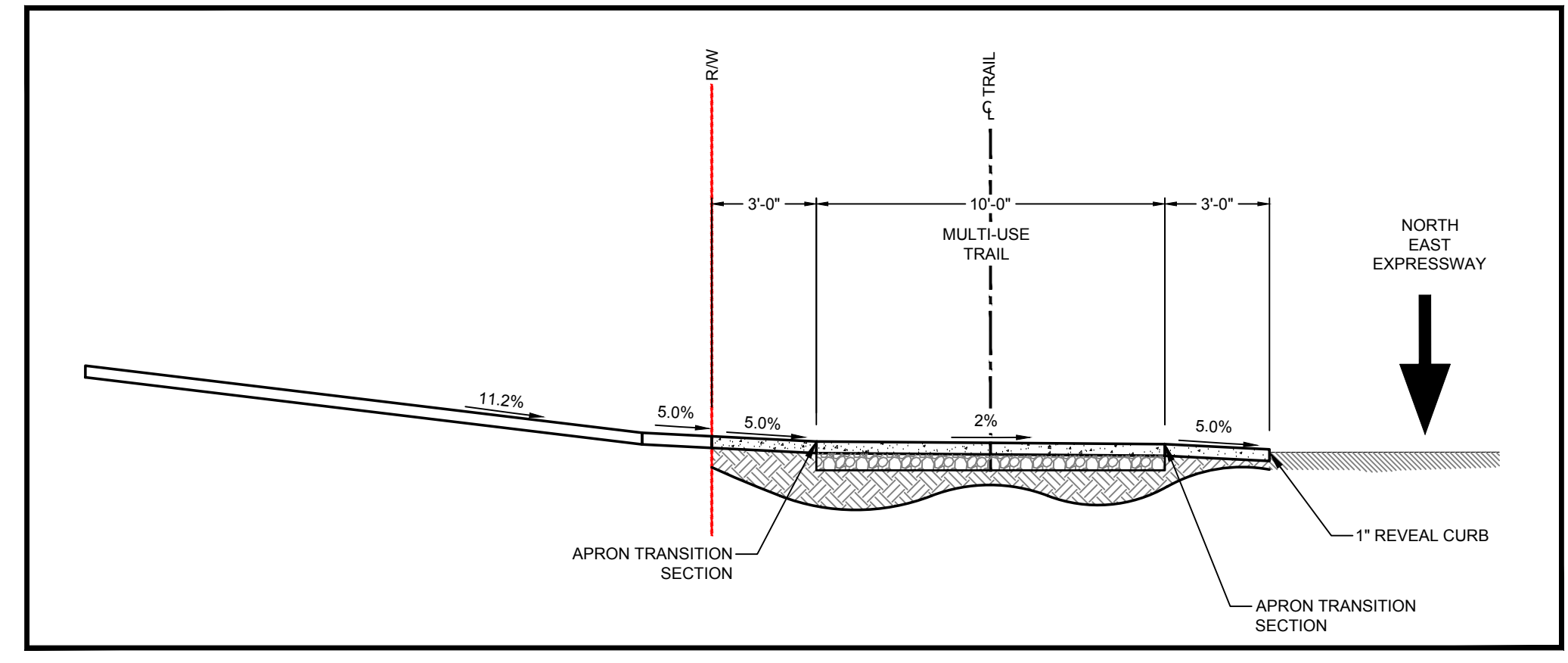
PROVIDE CONCRETE RAMP, AS
SHOWN, BACK TO R/W FOR FUTURE
ADA TIE-IN.

EXISTING LANDSCAPE LIGHT TO REMAIN

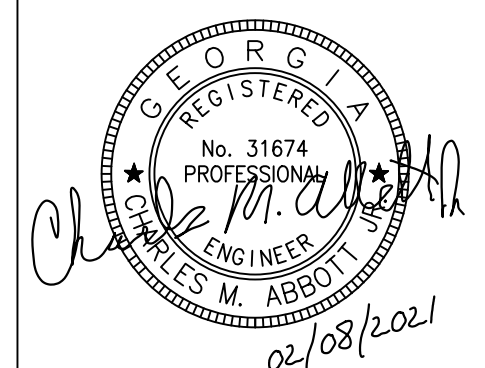
5
38-0001 REMOVE EXIST. CONCRETE WALK AND PAD BACK TO R/W, POUR
NEW 4' WIDE WALK/PAD AS NEEDED TO PROVIDE SMOOTH
CONNECTION BETWEEN TRAIL AND EX. WALK

PROVIDE SINGLE CONCRETE STEP, 6"
RISER, BETWEEN TRAIL AND EXIST. WALK
TIE-IN

4
38-0002 ROOT BRIDGING (HATCHED AREA), TYP.

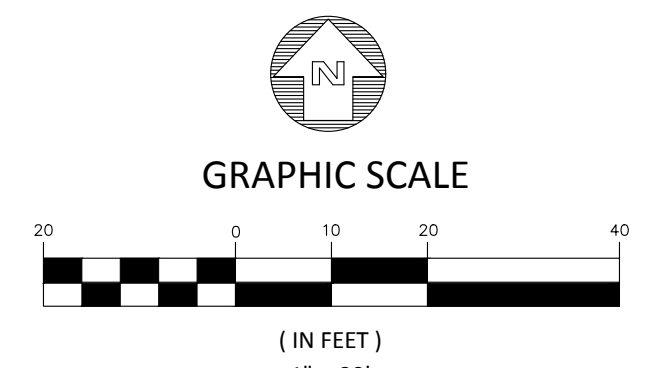


B 1586 1-85 ACCESS ROAD DRIVEWAY
13-0004 SCALE: 1"=10'-0"



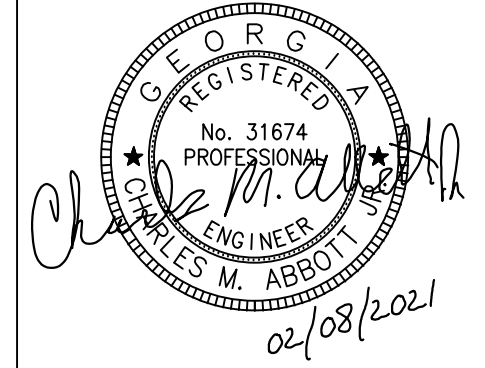
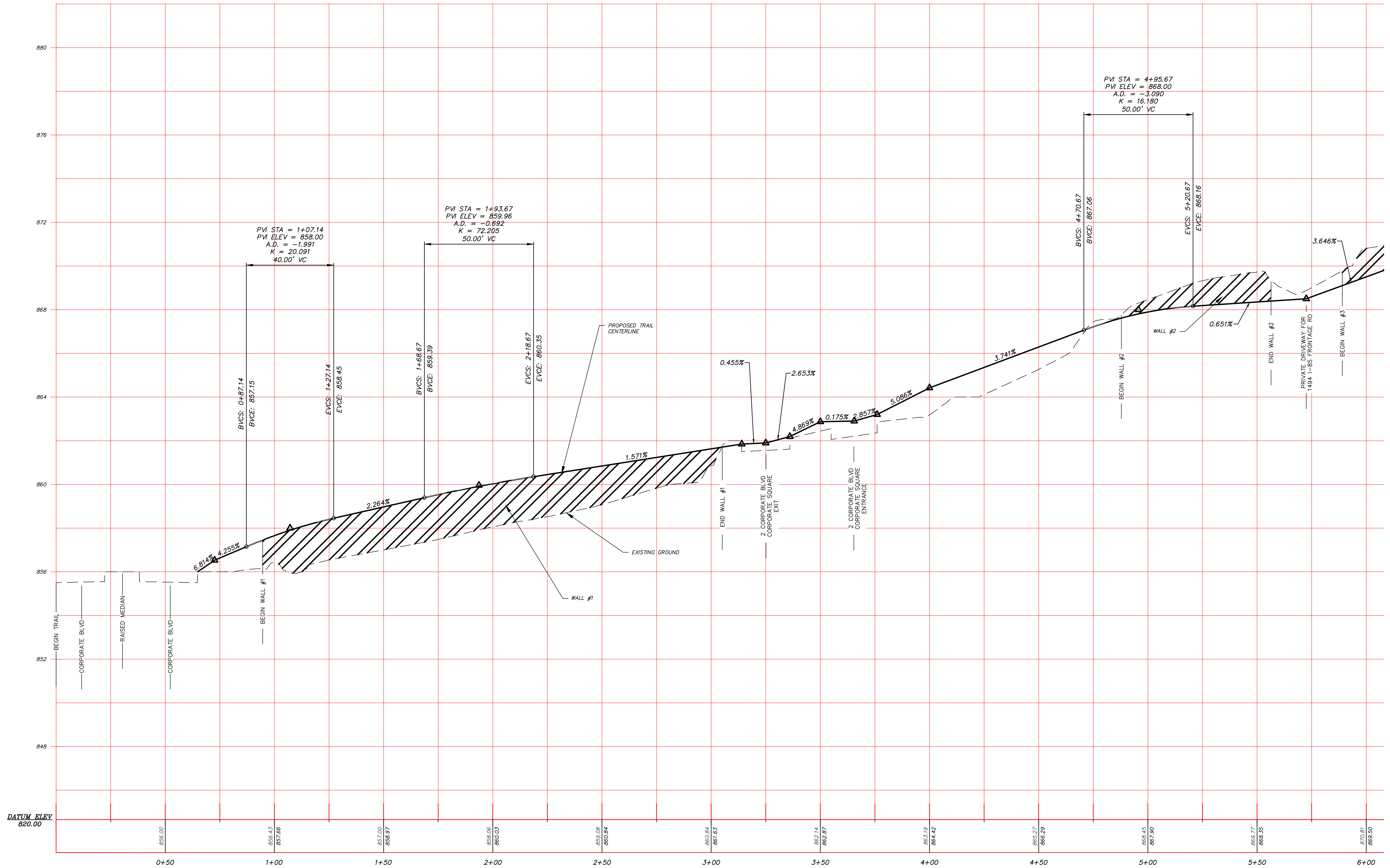
PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521
CHARLES M. ABBOTT JR., P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
DEPUTY DIRECTOR
4362 PEACHTREE RD., BROOKHAVEN, GA 30319
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O: 404-991-4763 C: 404-637-0662



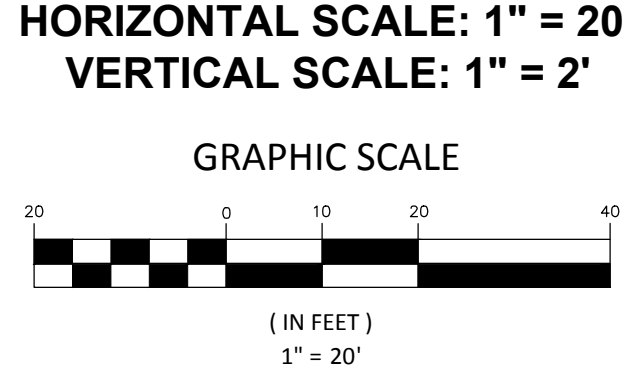
REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
MAINLINE PLAN
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No. 13-0004



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521
 CHARLES M. ABBOTT JR., P.E.
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 GSWCC # 00000041586 EXPIRES: 04/13/2022
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CITY OF BROOKHAVEN
 DONALD SHERRILL - PUBLIC WORKS
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 4302 PEACHTREE RD., BROOKHAVEN, GA 30319
 E: DON.SHERRILL@BROOKHAVENGA.GOV
 O: 404-991-4763 C: 404-637-0682



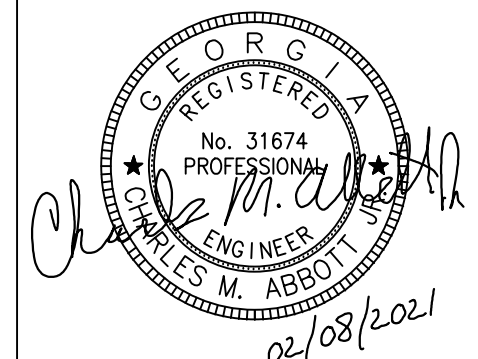
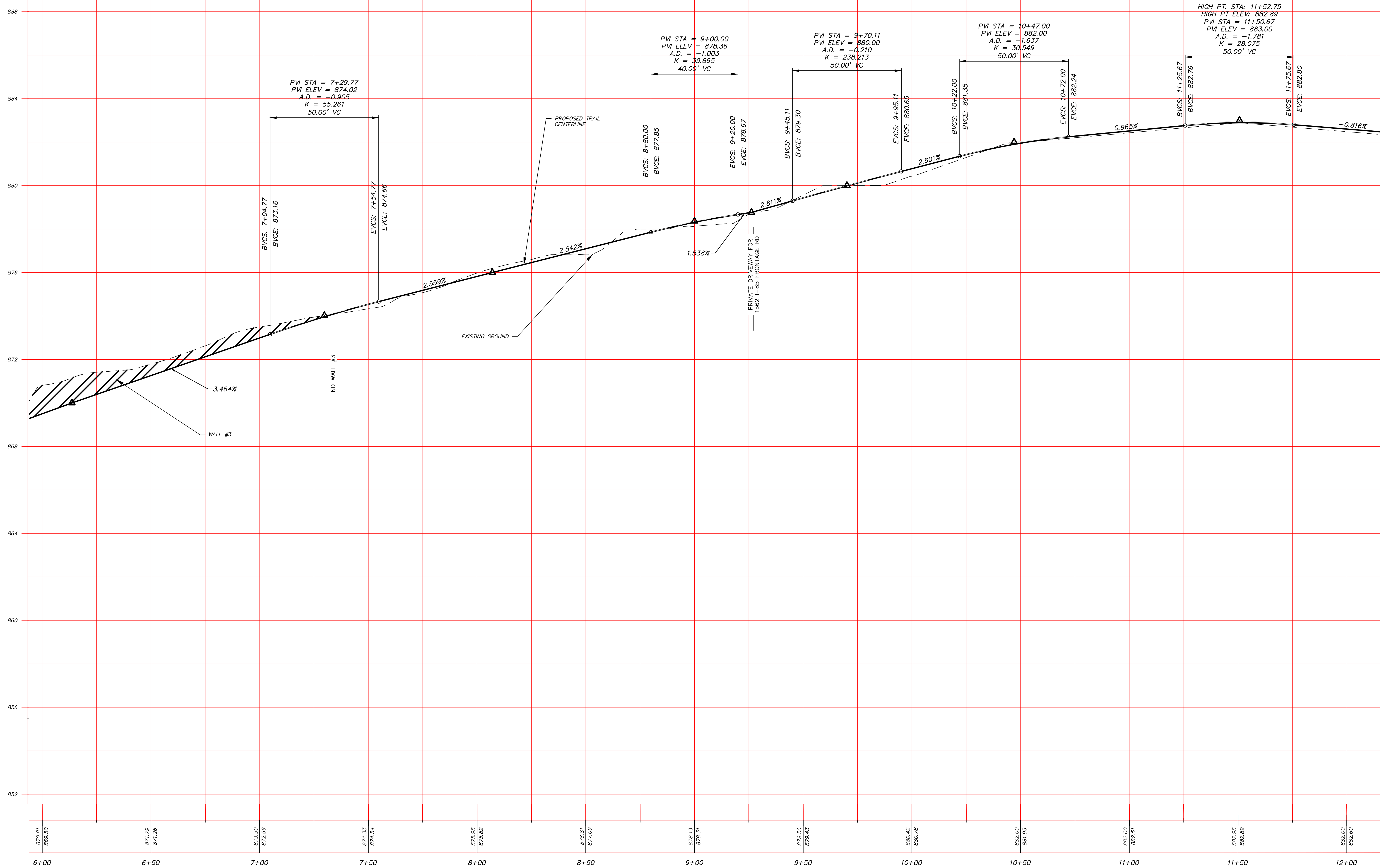
REVISION DATES	
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

MAINLINE PROFILE

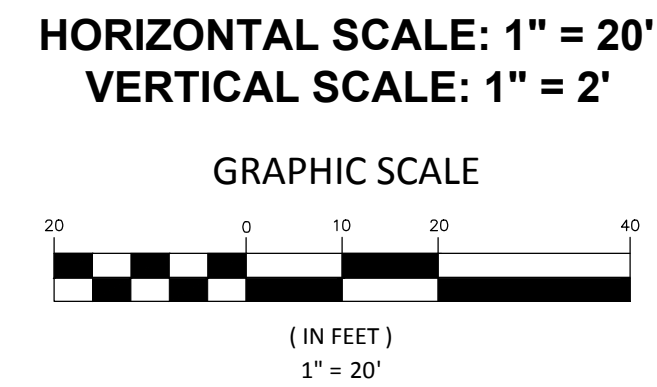
N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No. 15-0001



PLANS PREPARED BY:
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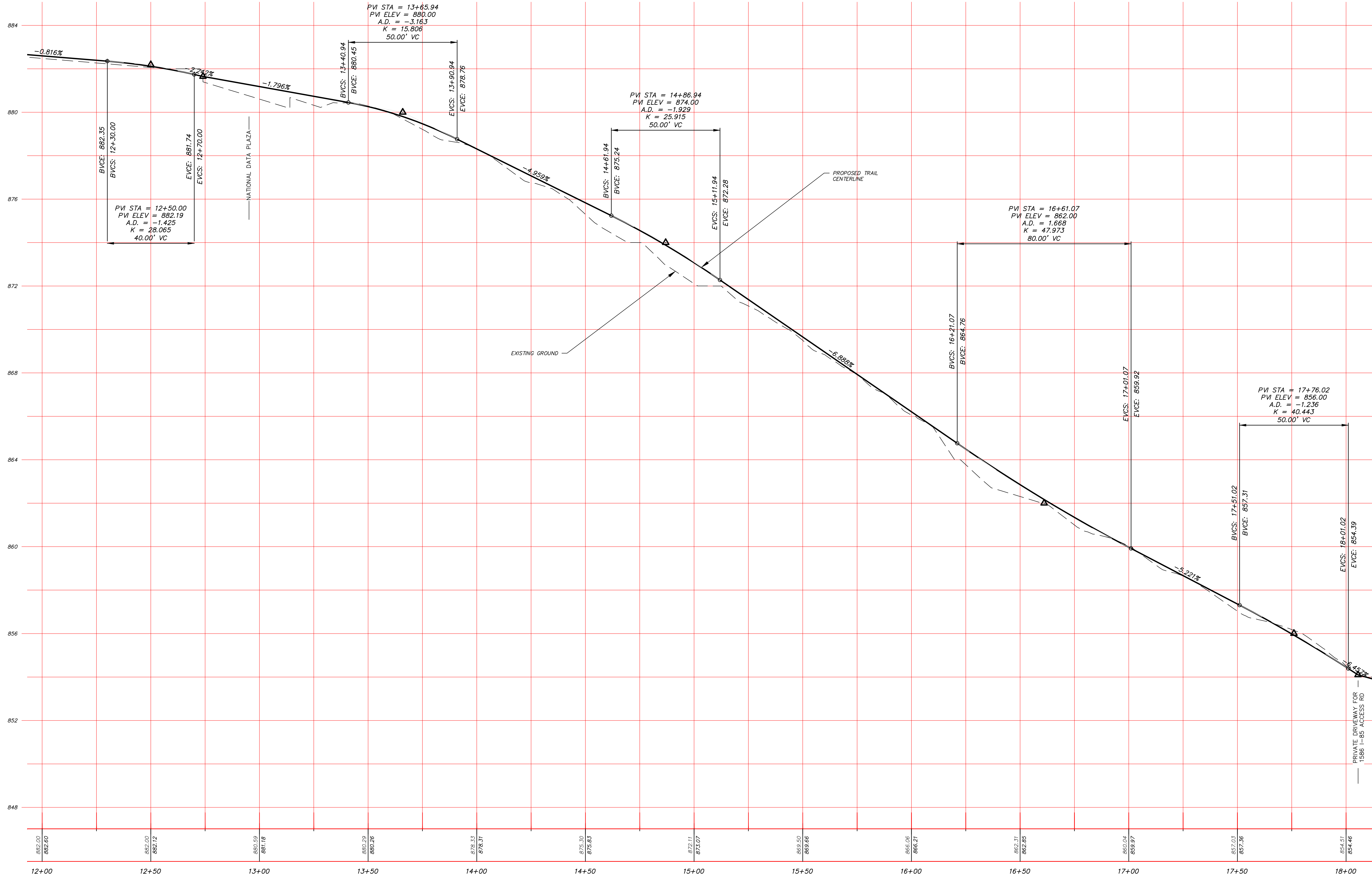
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

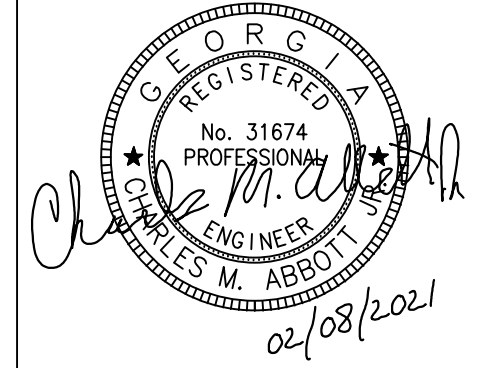
MAINLINE PROFILE

N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No. 15-002

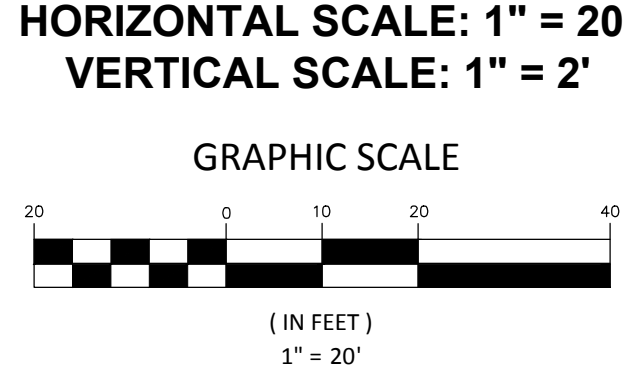


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12+00		12+50		13+00		13+50		14+00		14+50		15+00		15+50		16+00		16+50		17+00		17+50		18+00	



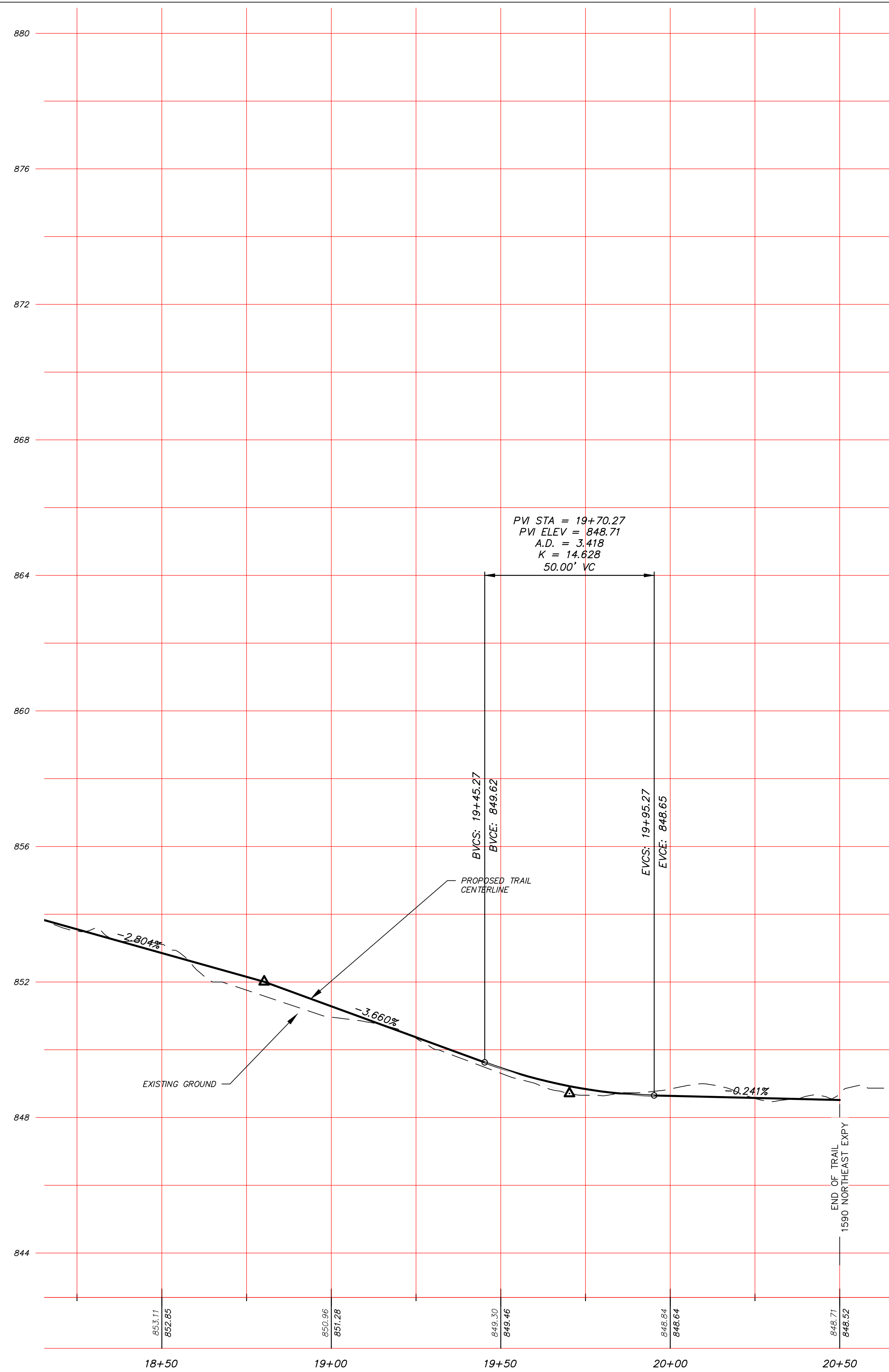
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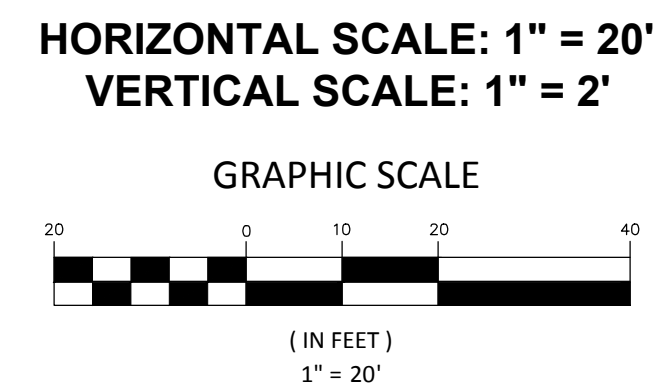
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
MAINLINE PROFILE
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No. 15-0003



PLANS PREPARED BY:
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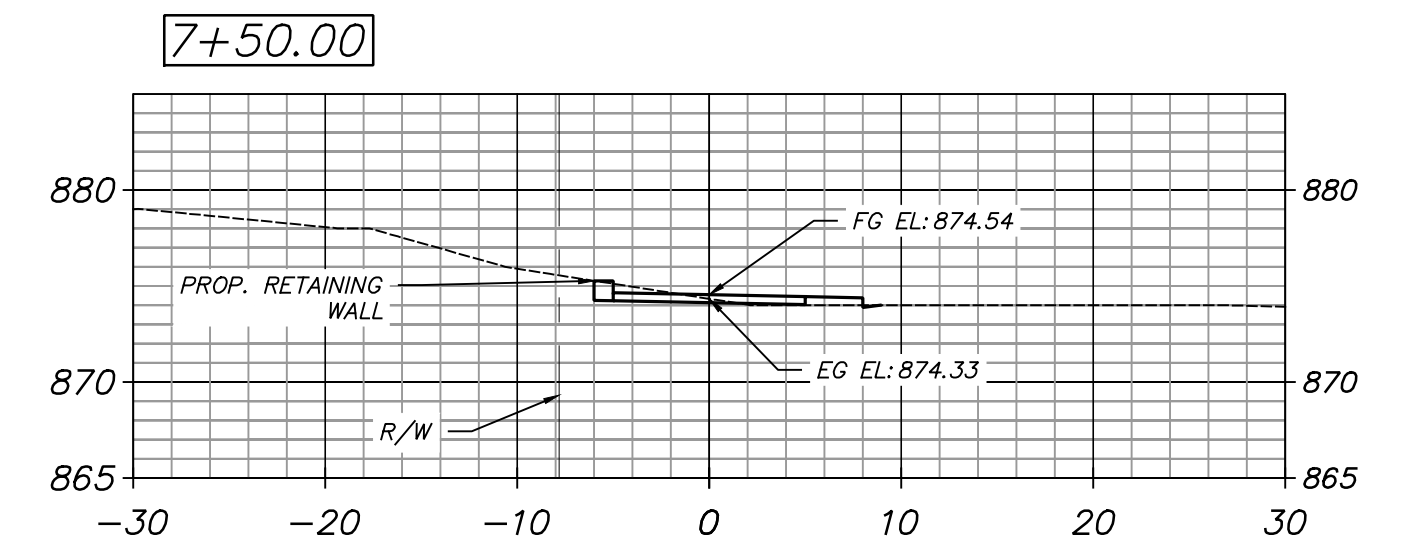
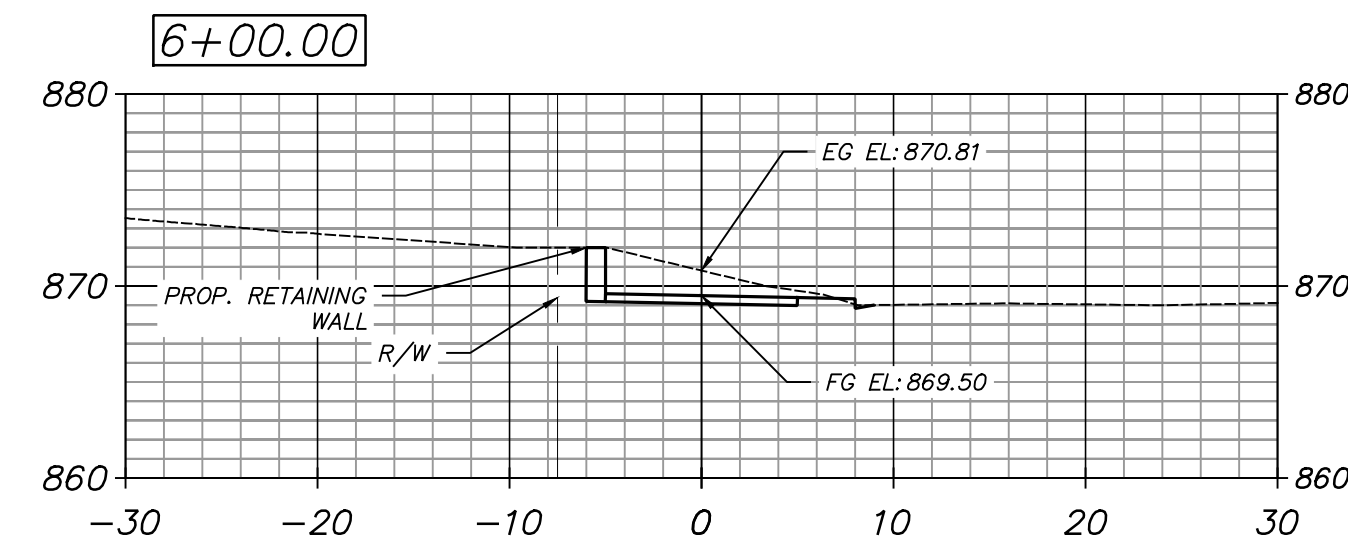
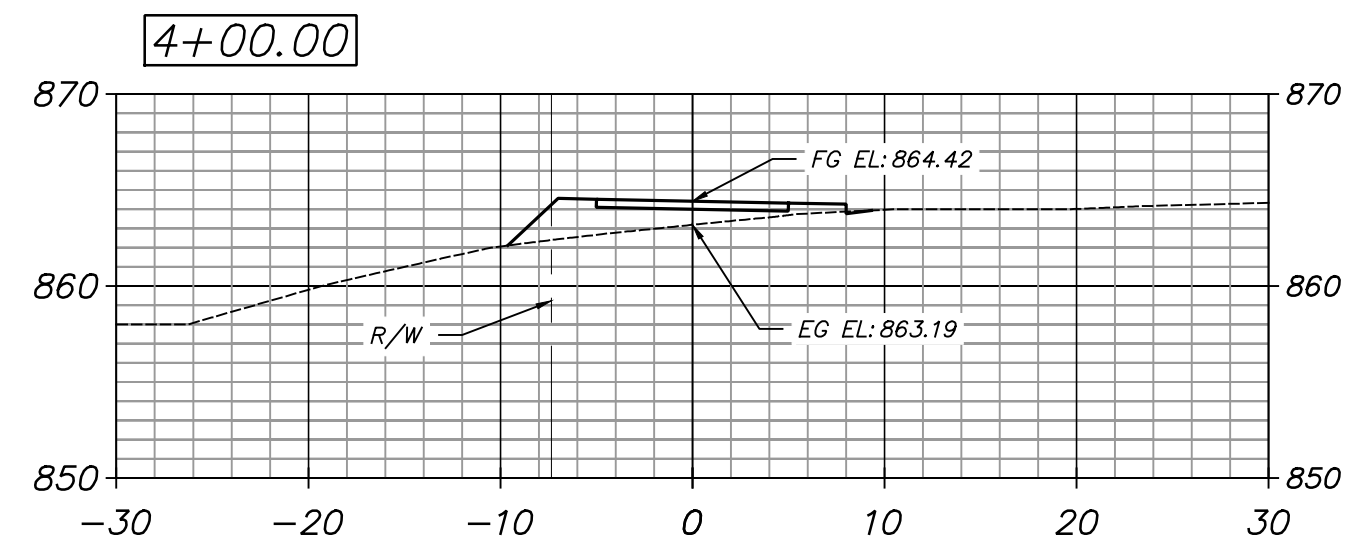
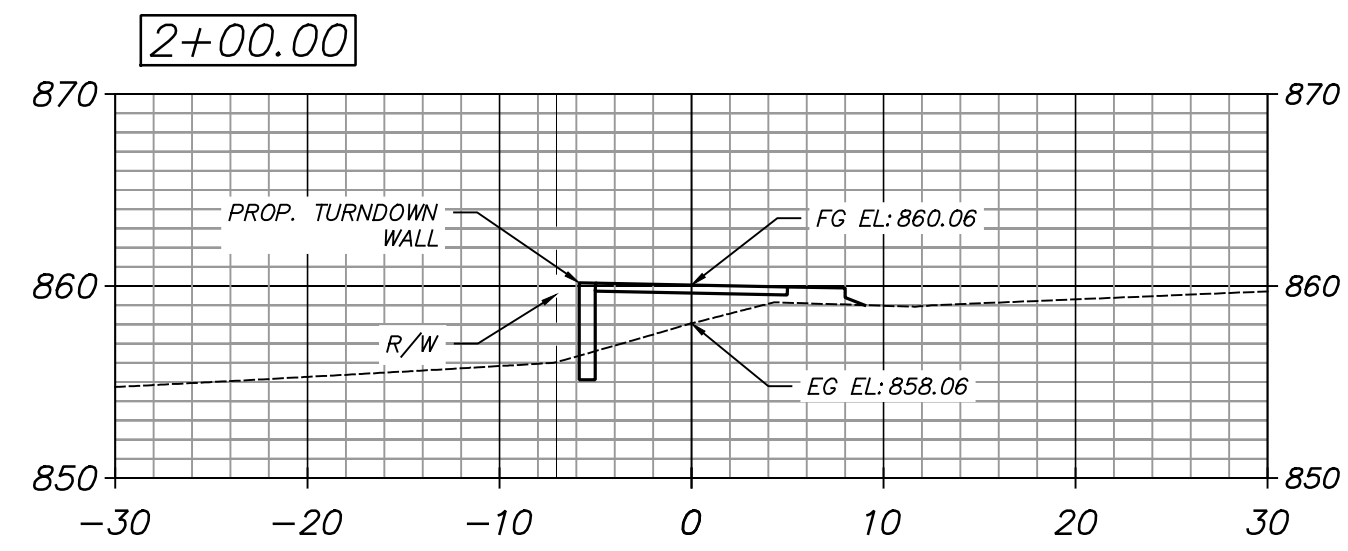
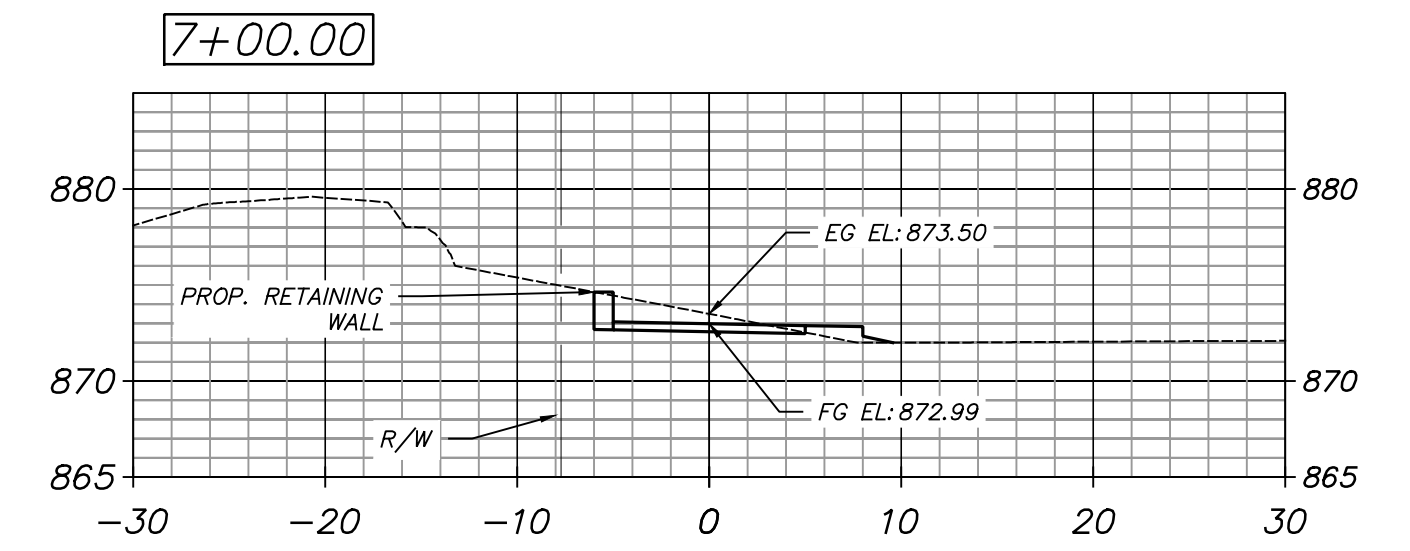
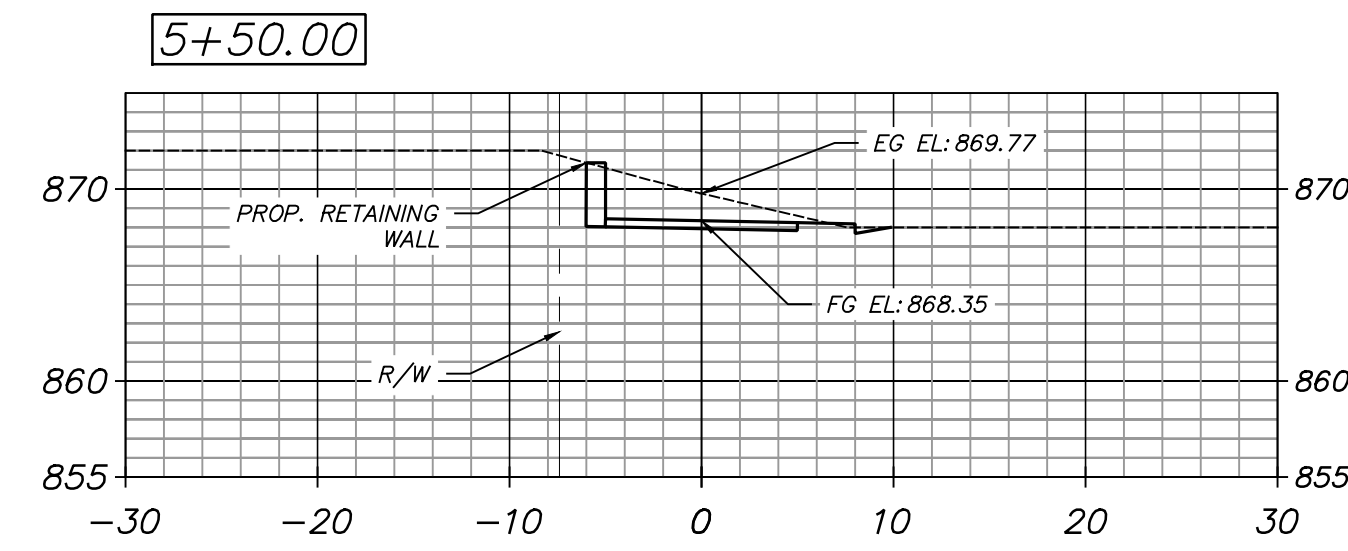
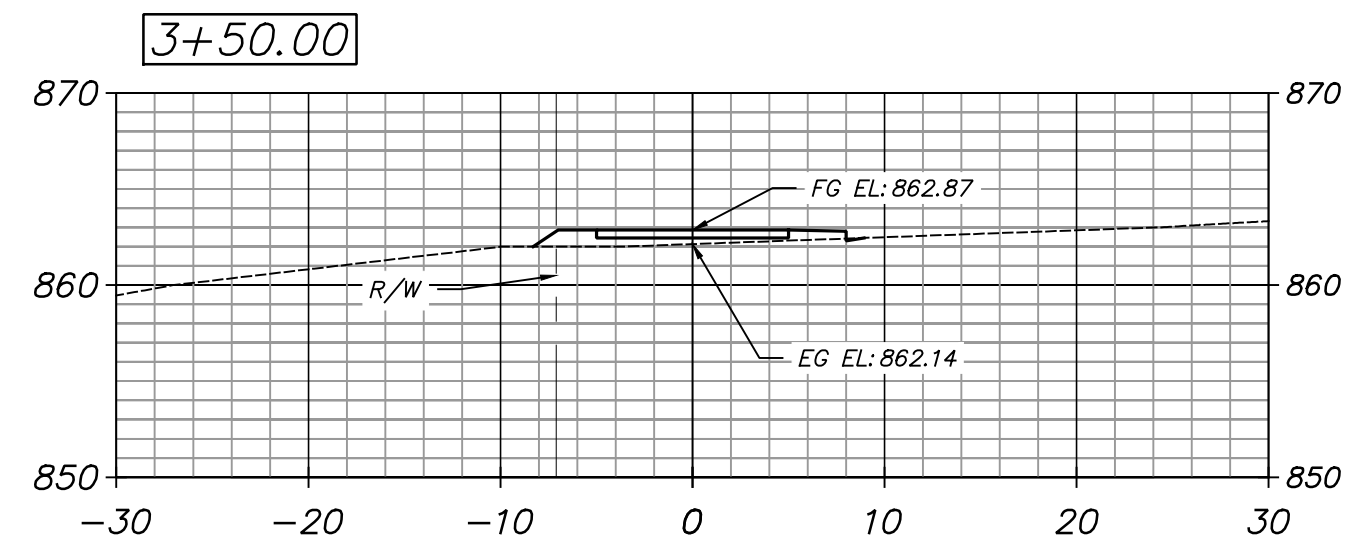
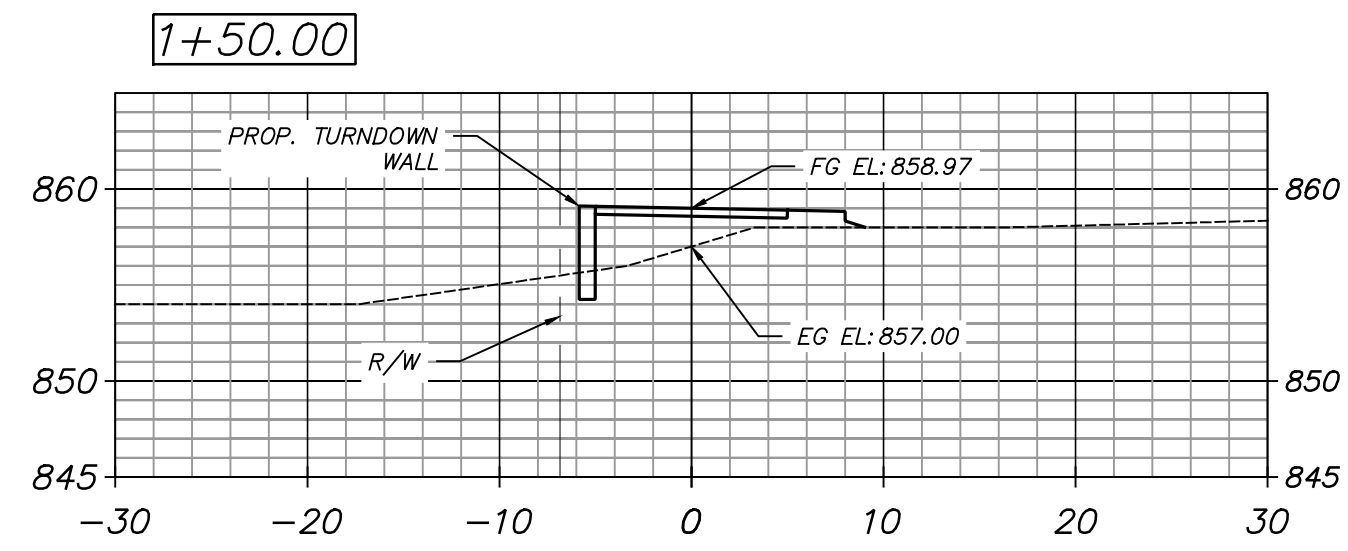
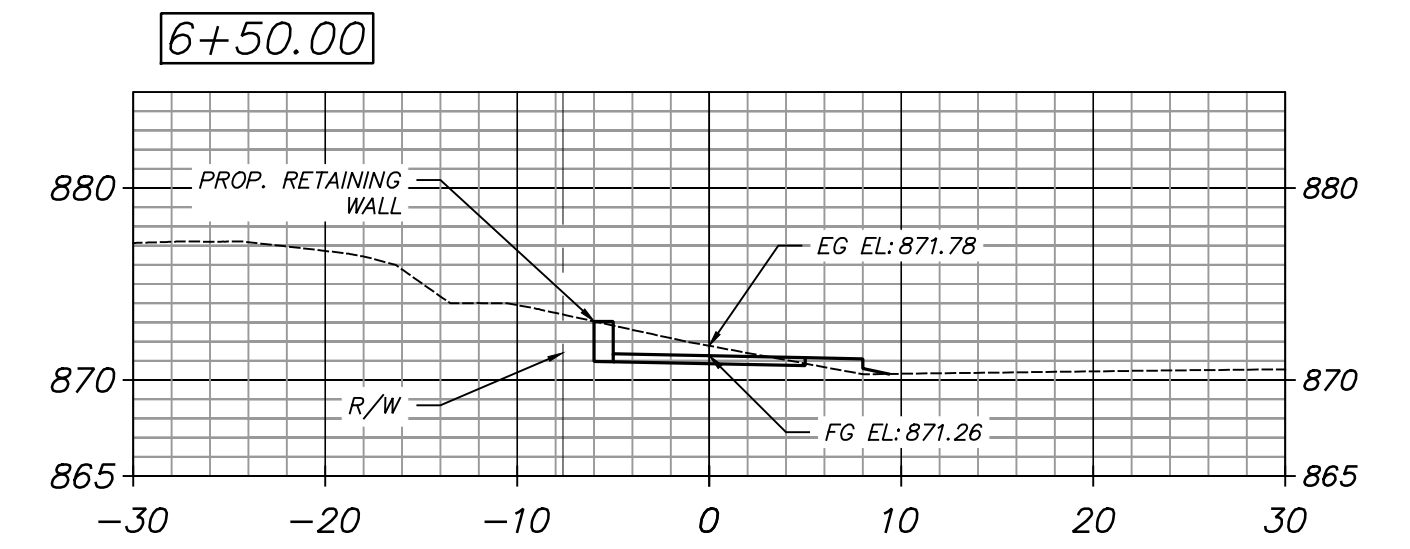
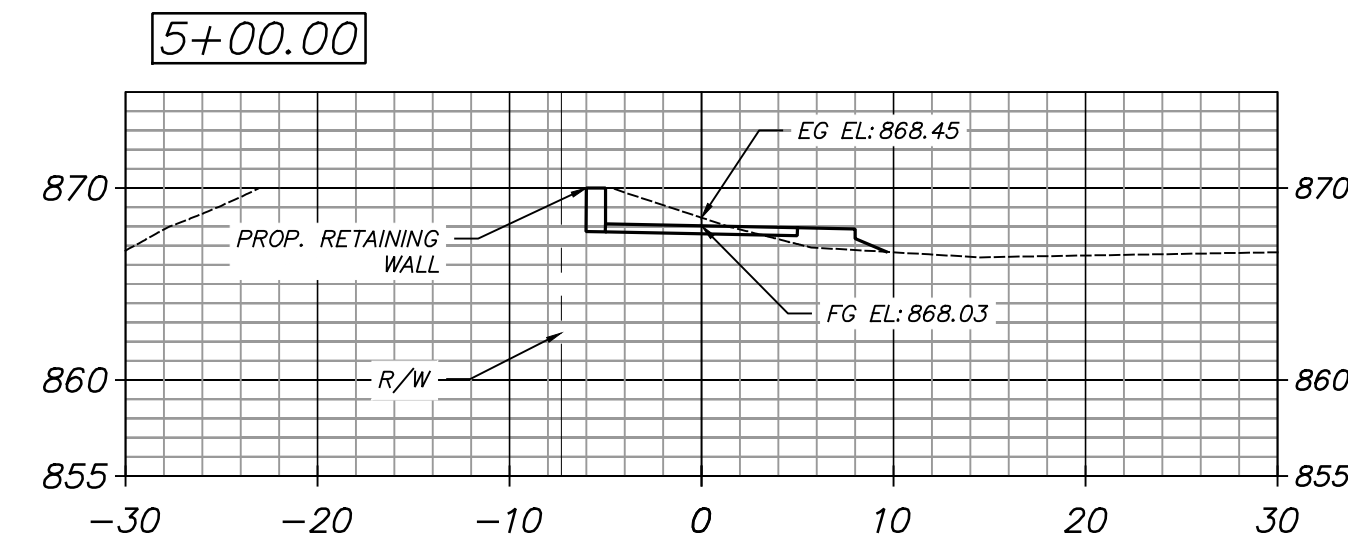
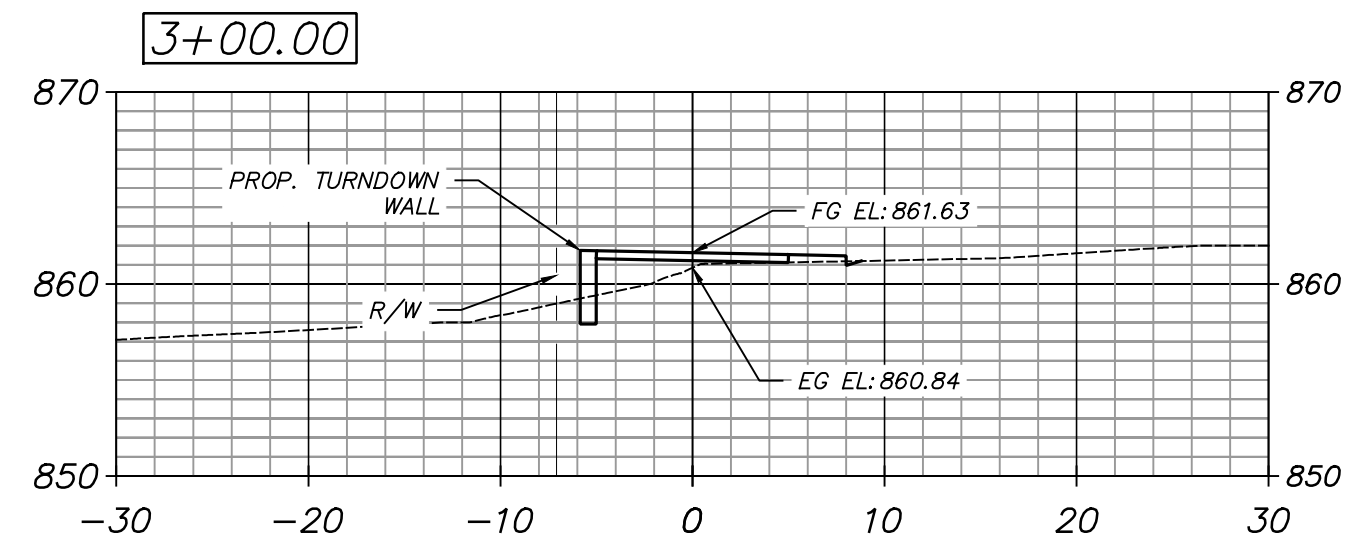
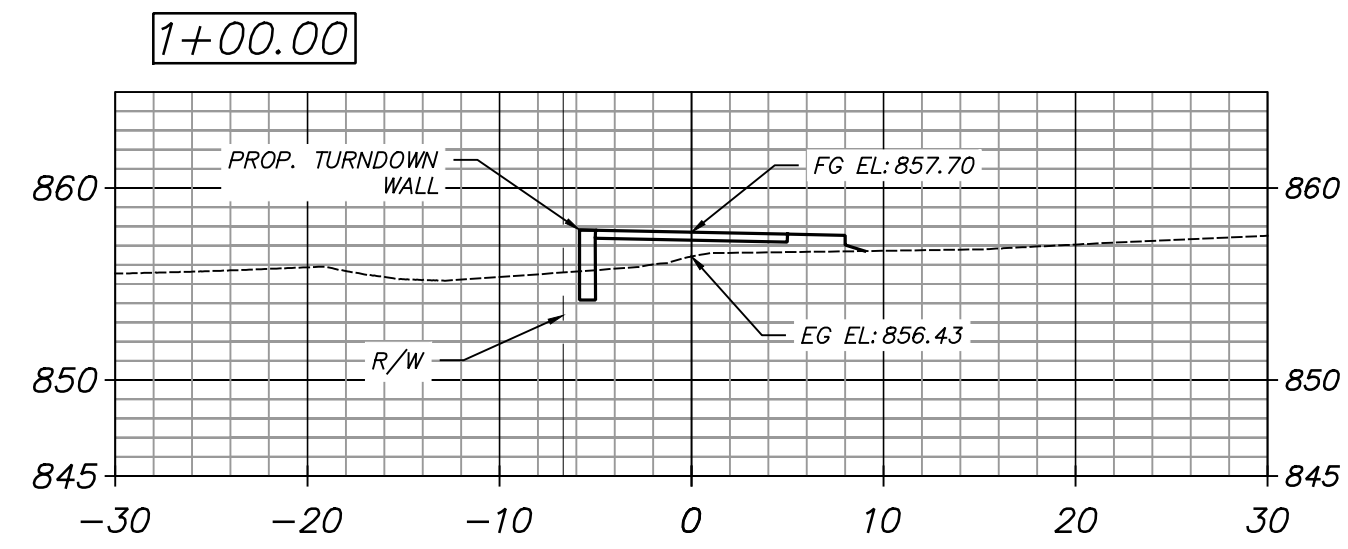
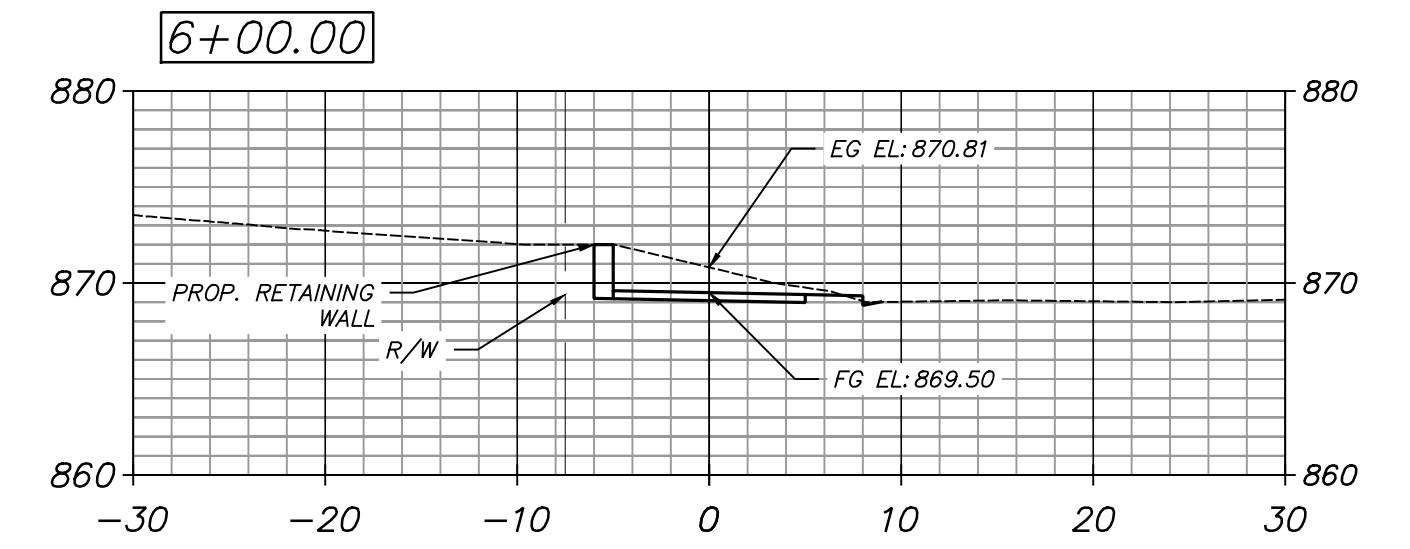
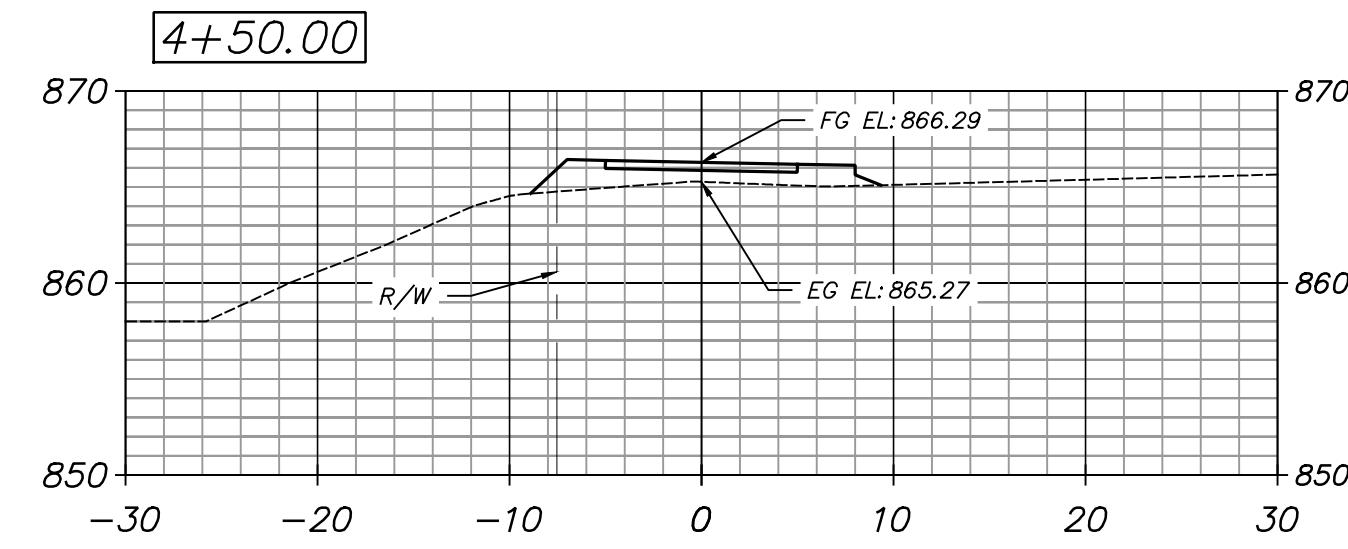
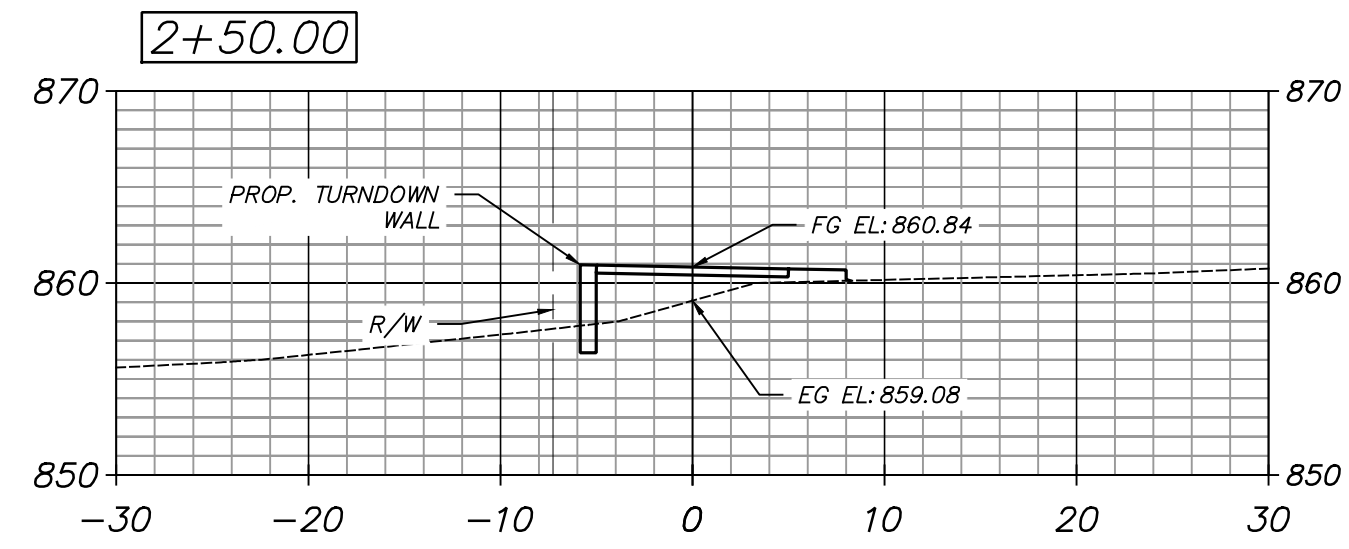
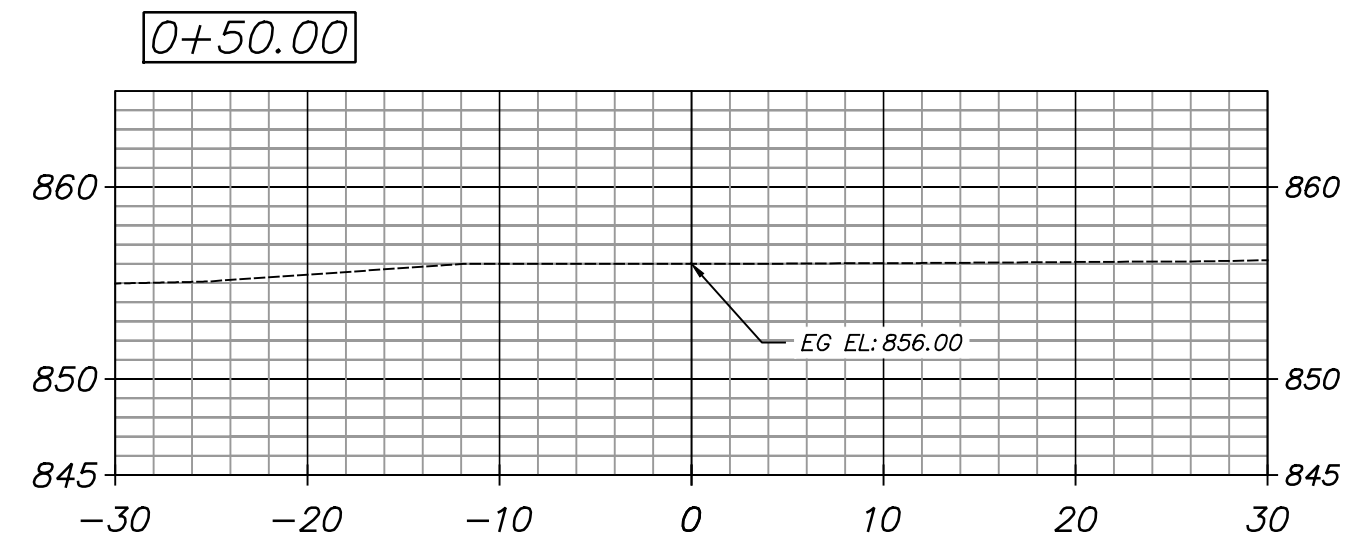
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

MAINLINE PROFILE

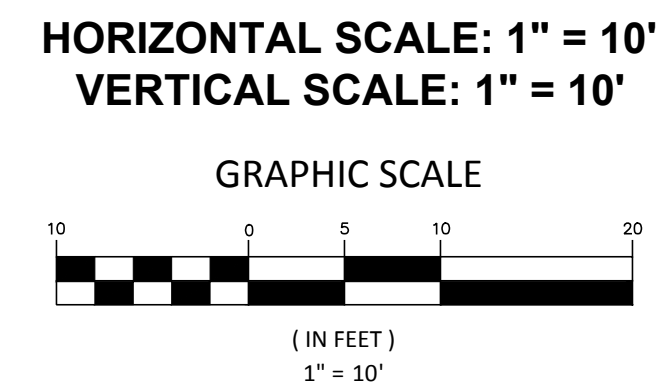
N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
15-0004



PLANS PREPARED BY:
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 2390 Main Street | Tucker, GA 30084 | 404.239.2521
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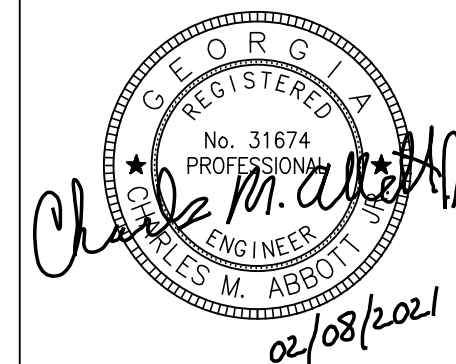
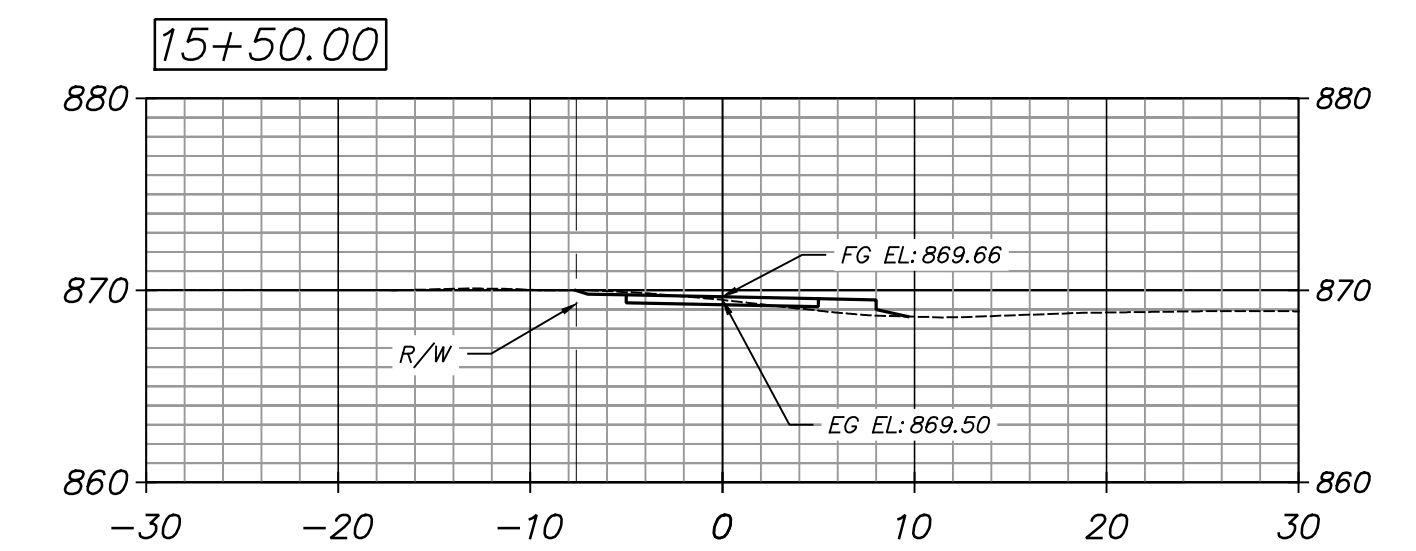
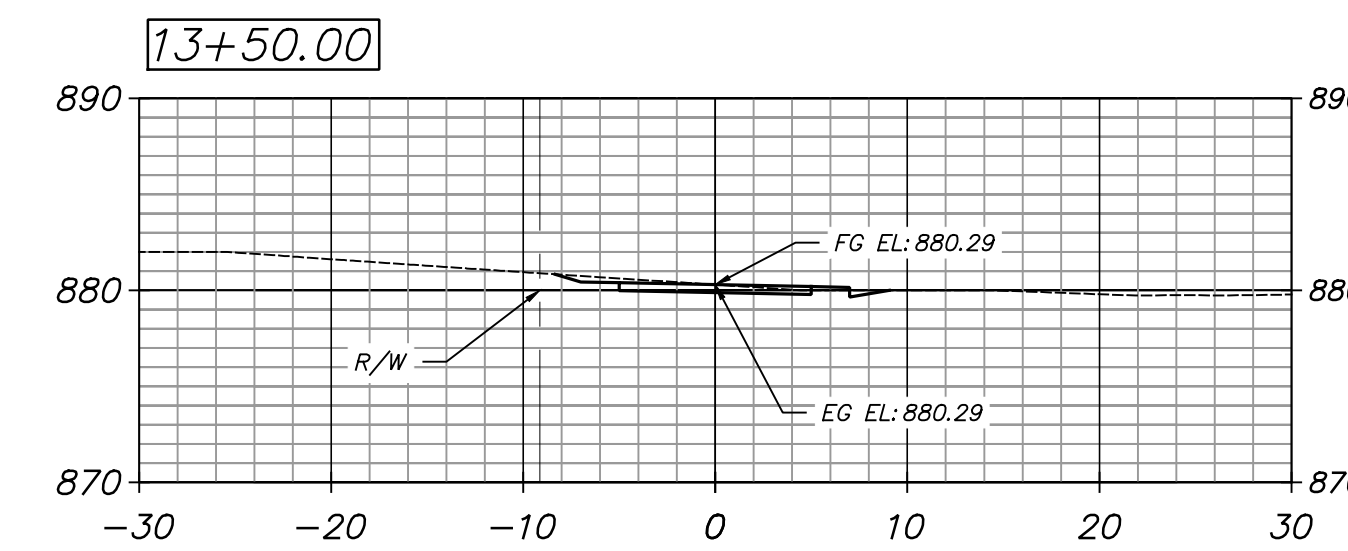
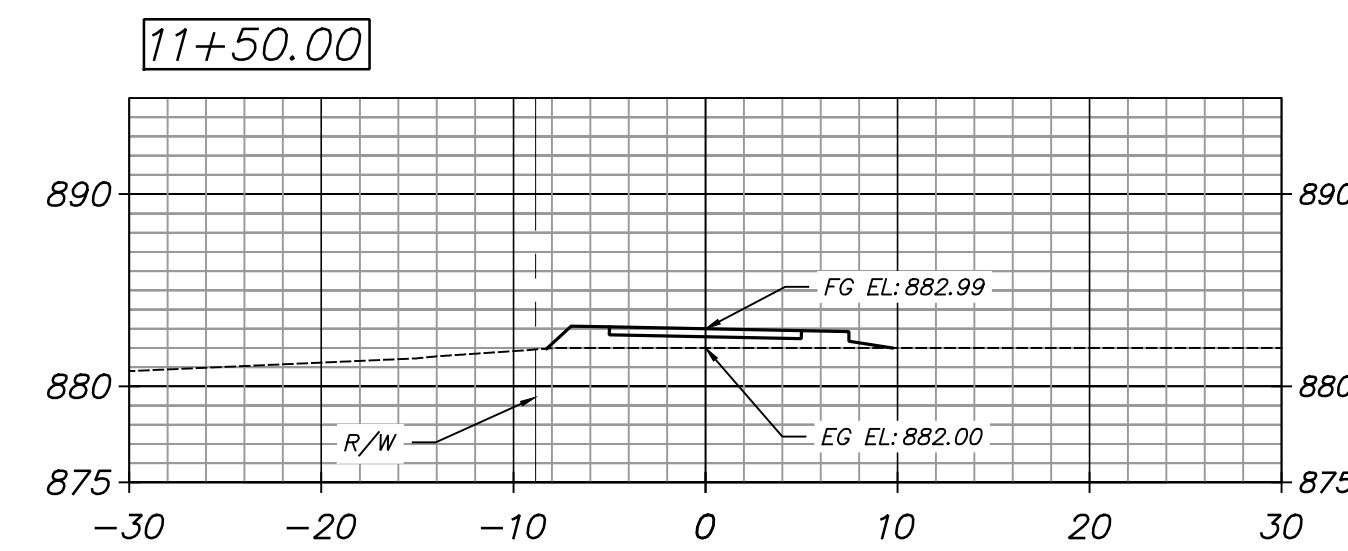
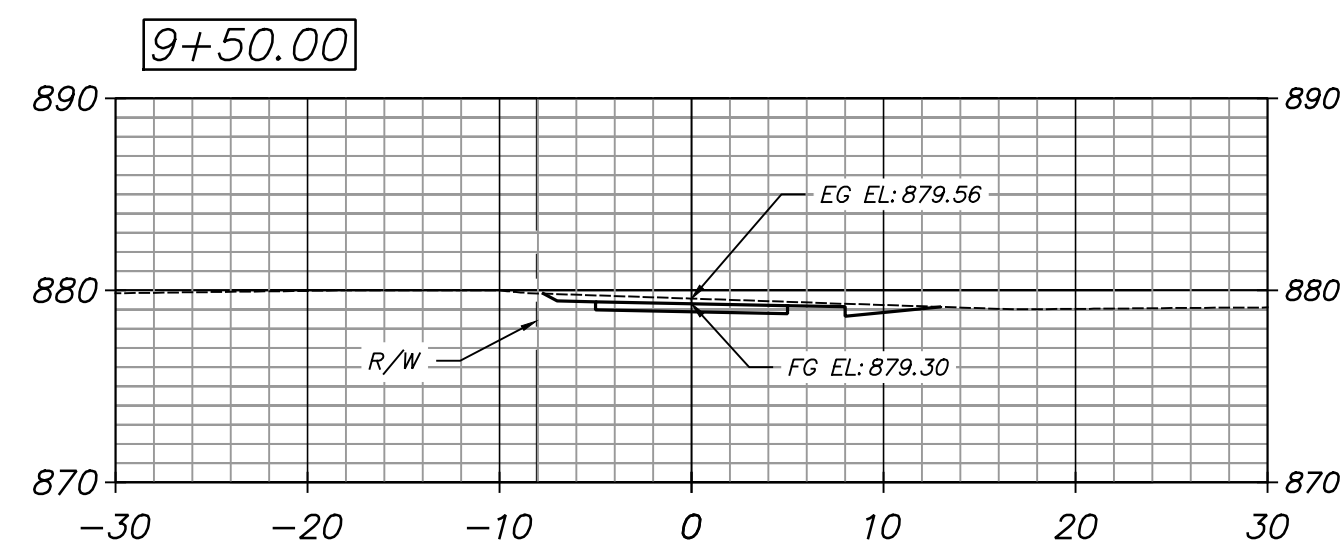
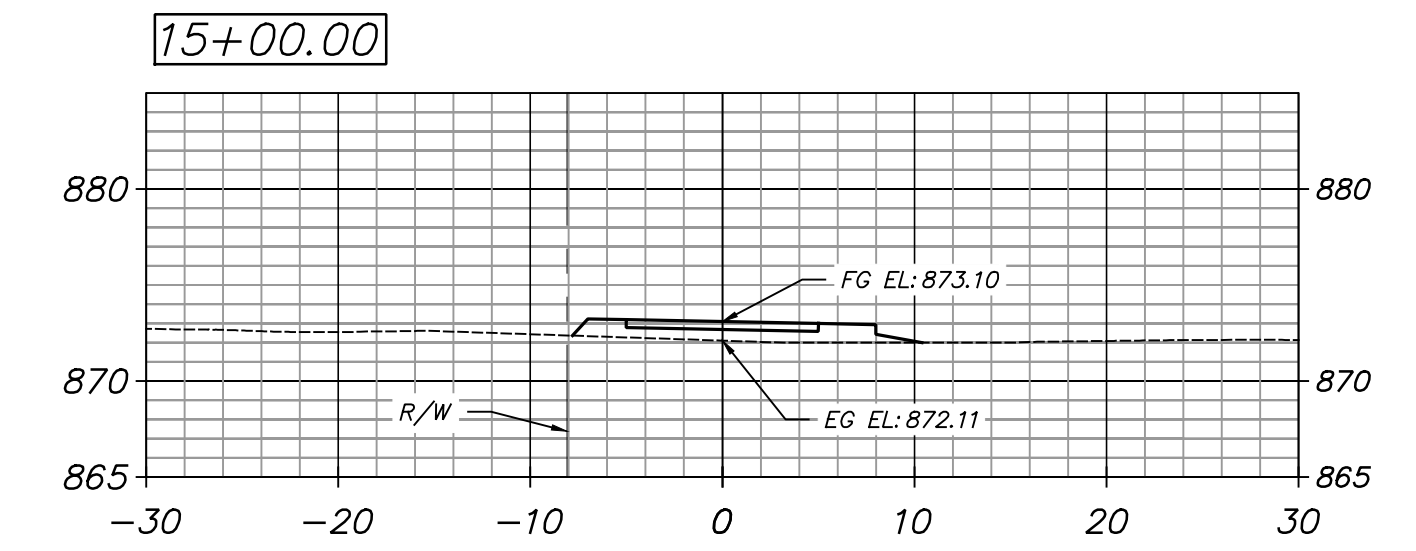
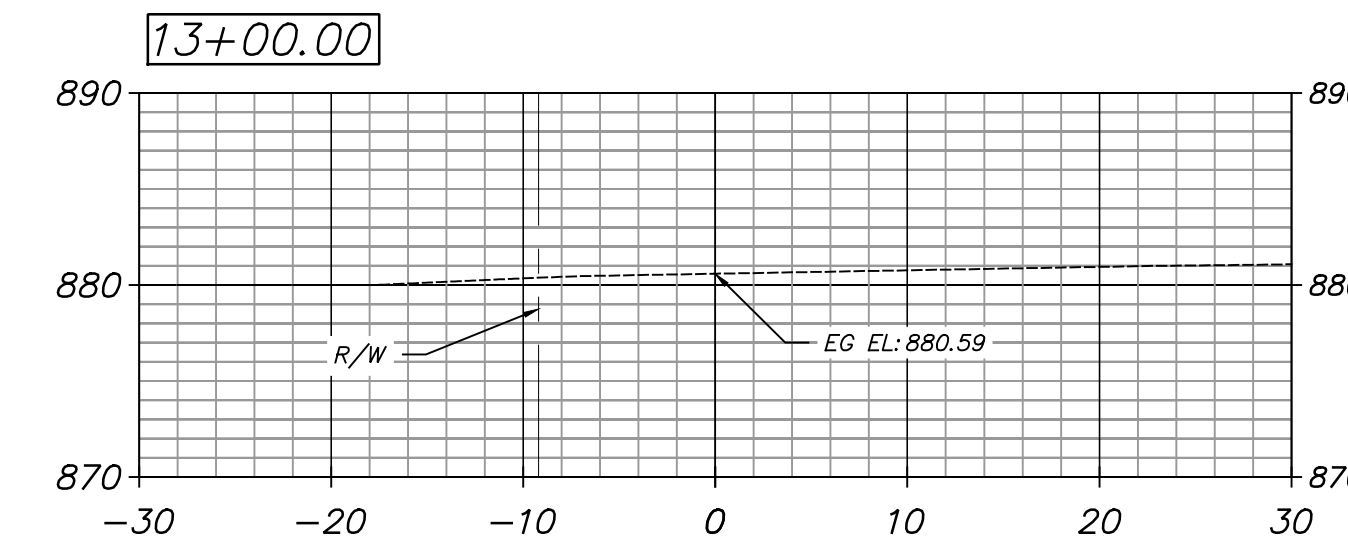
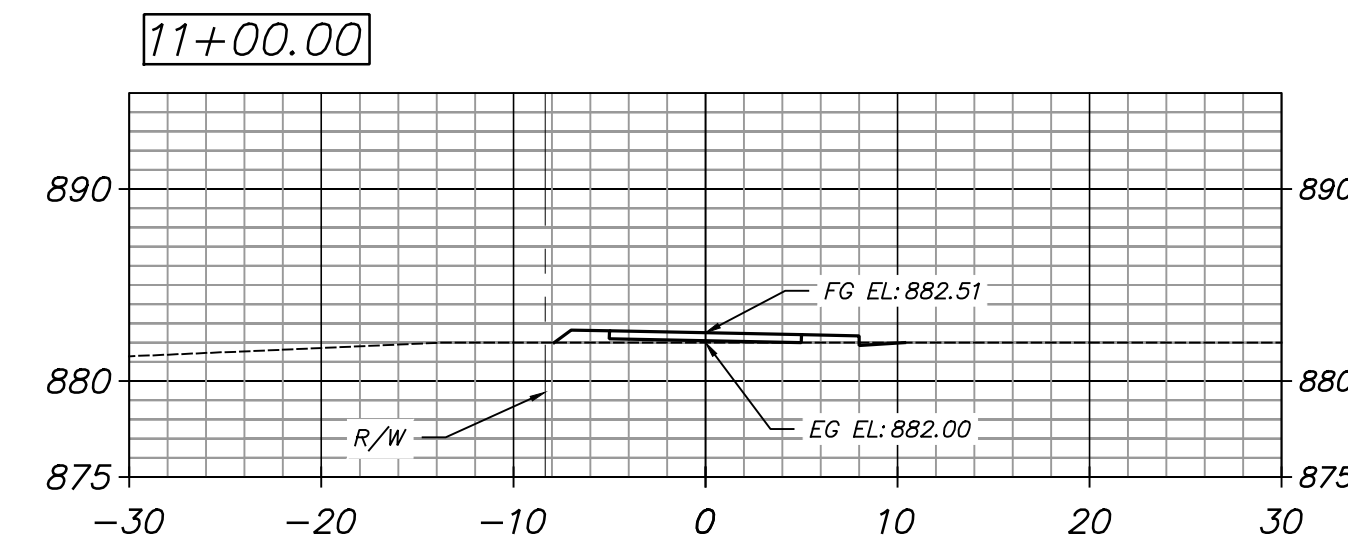
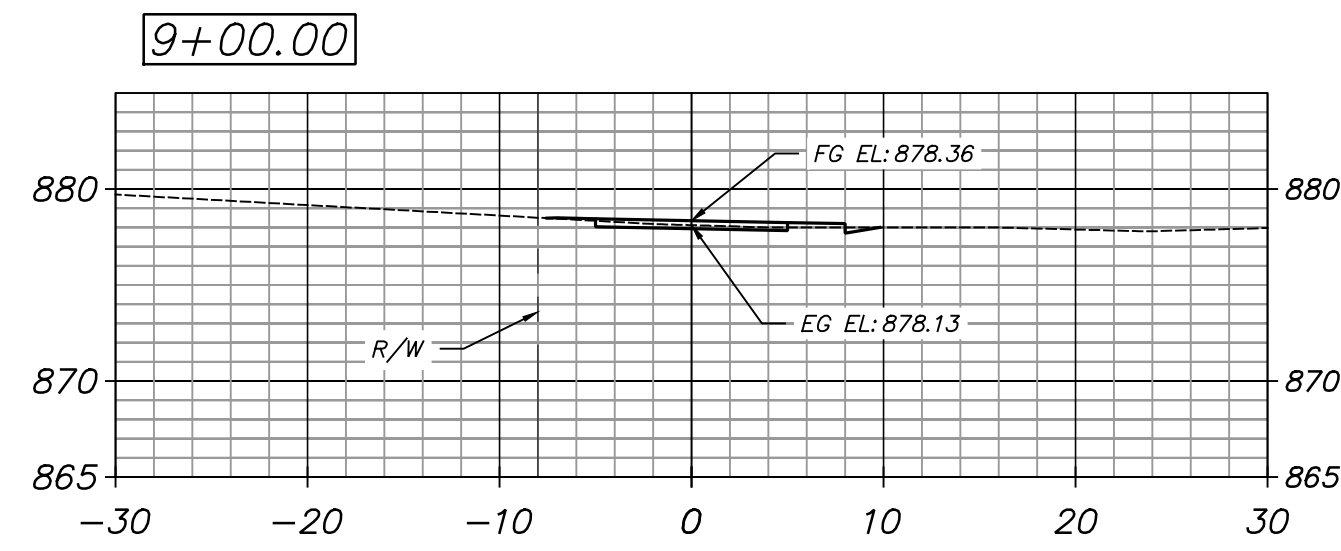
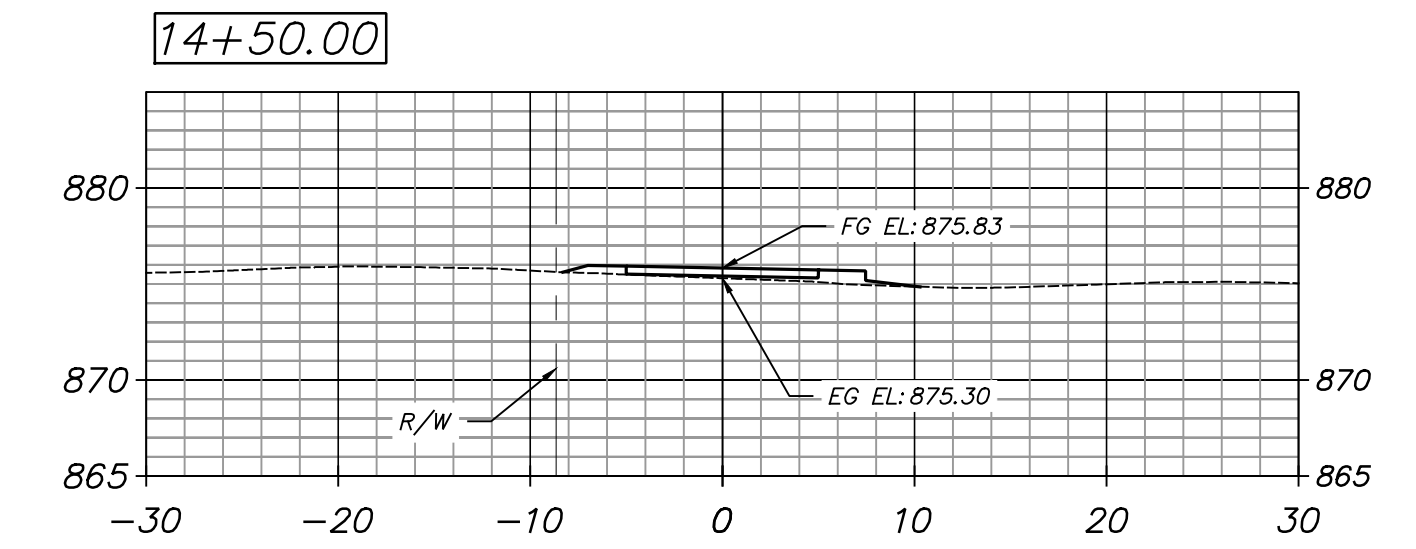
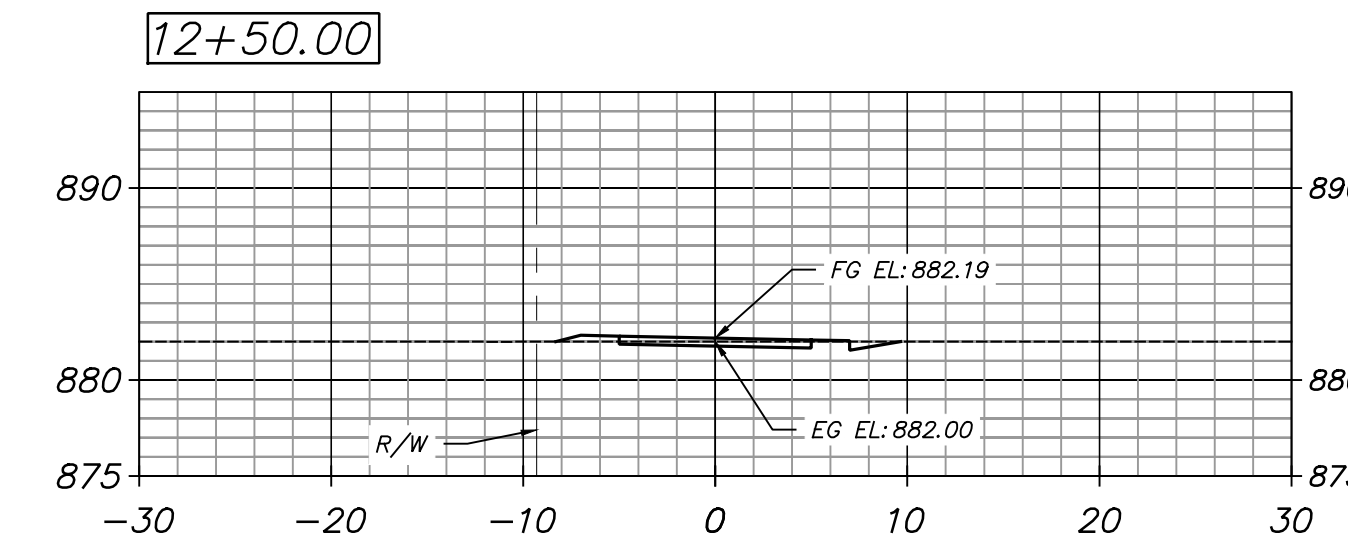
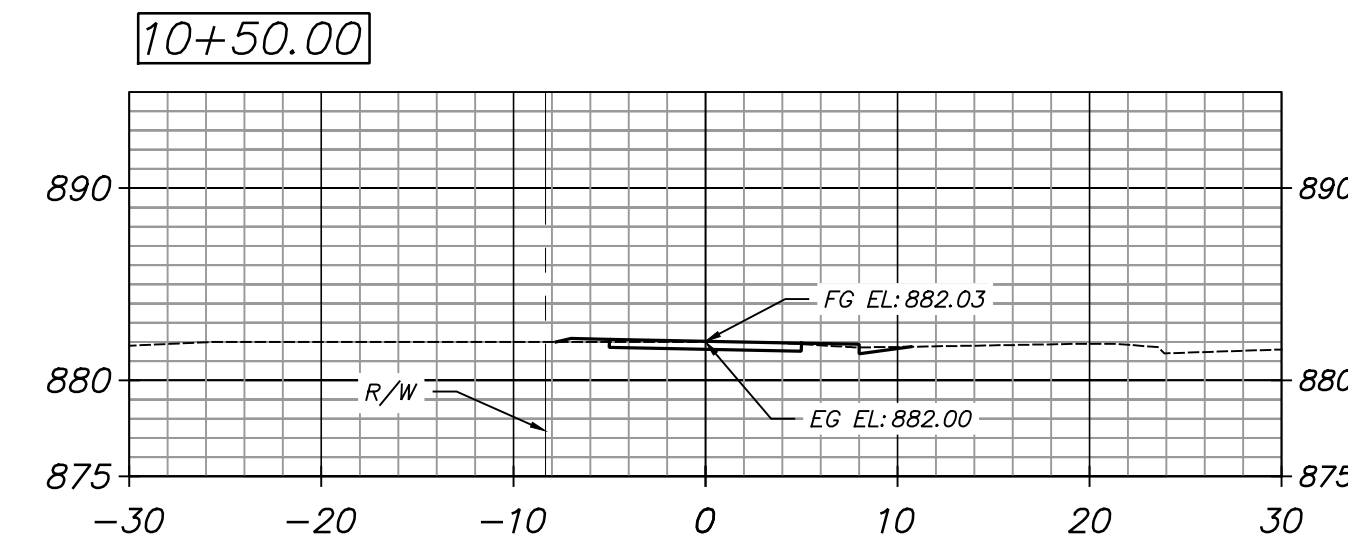
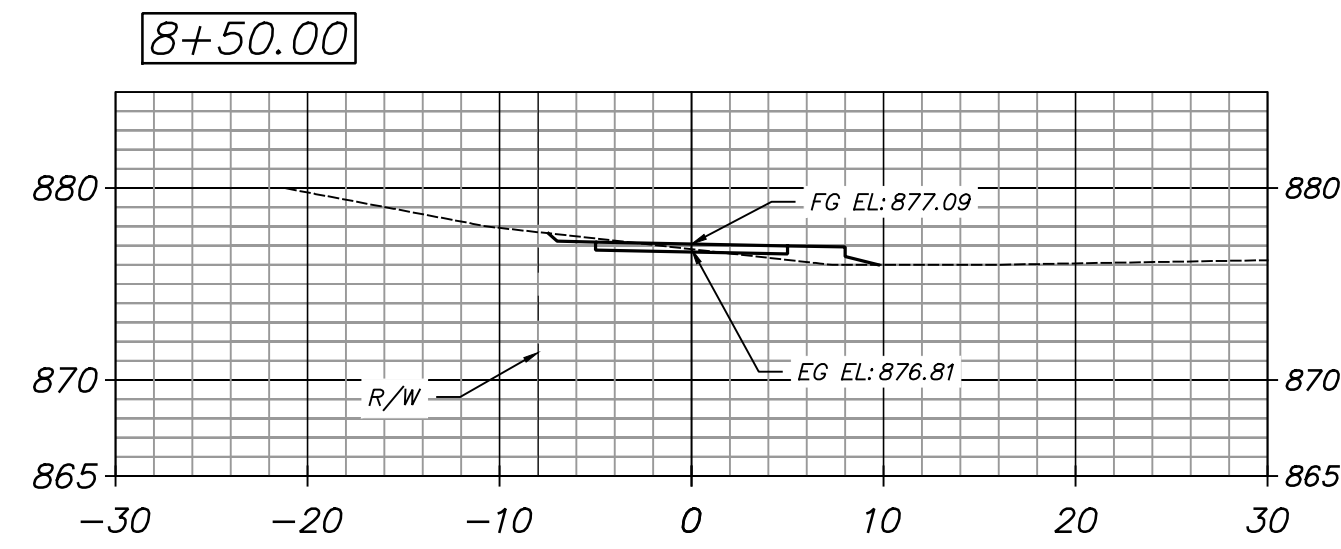
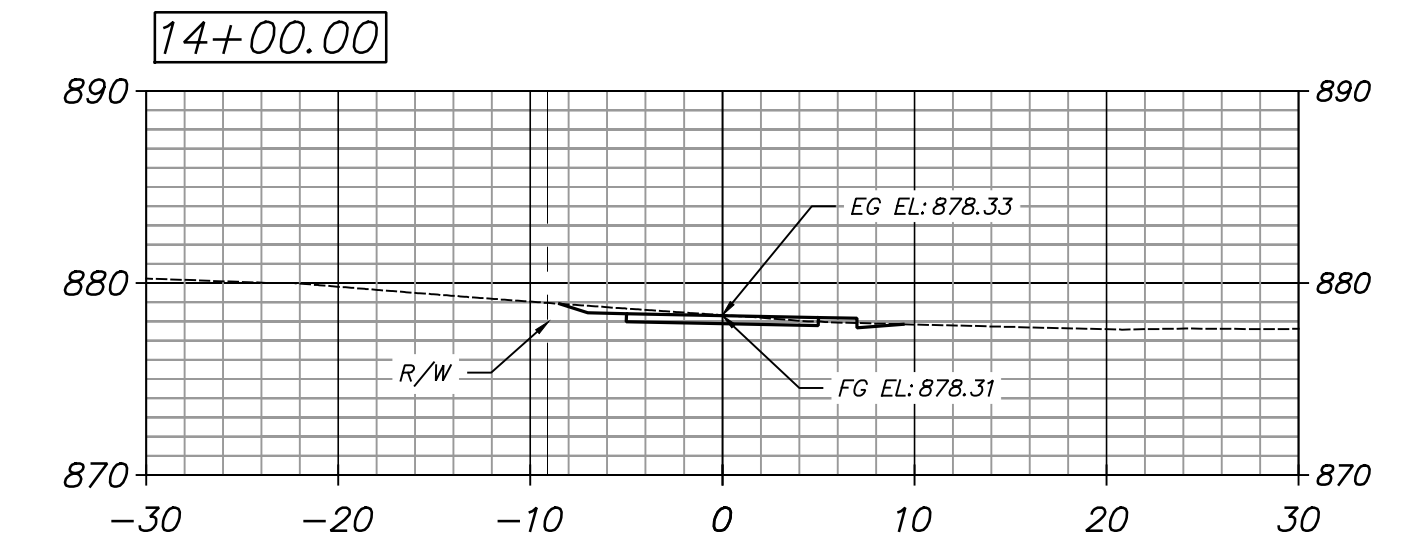
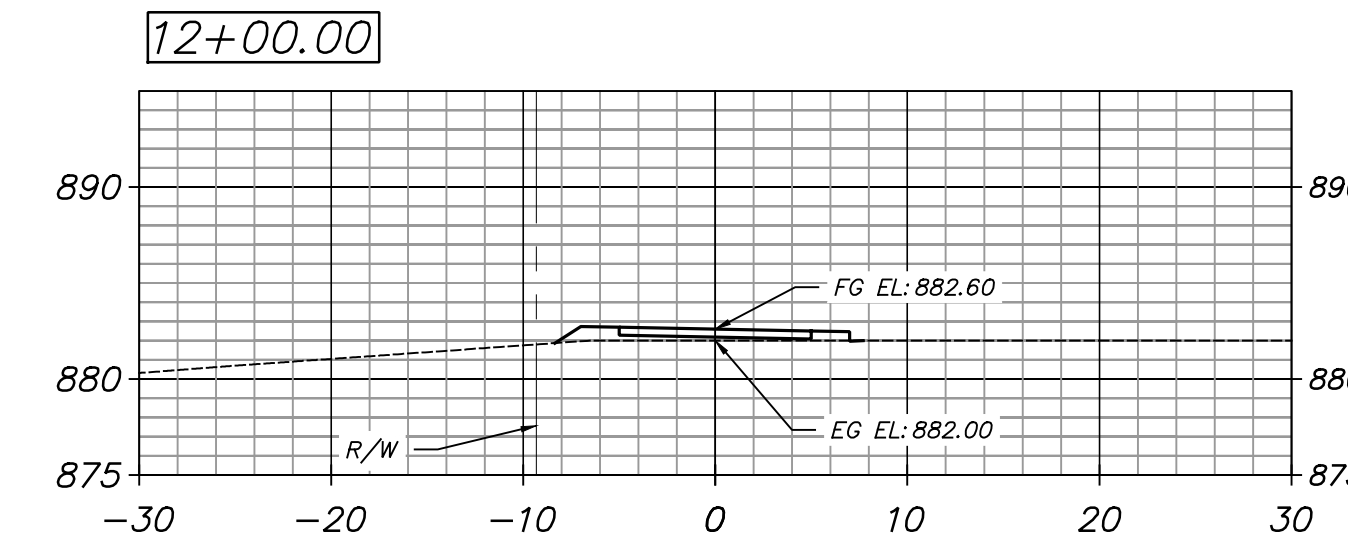
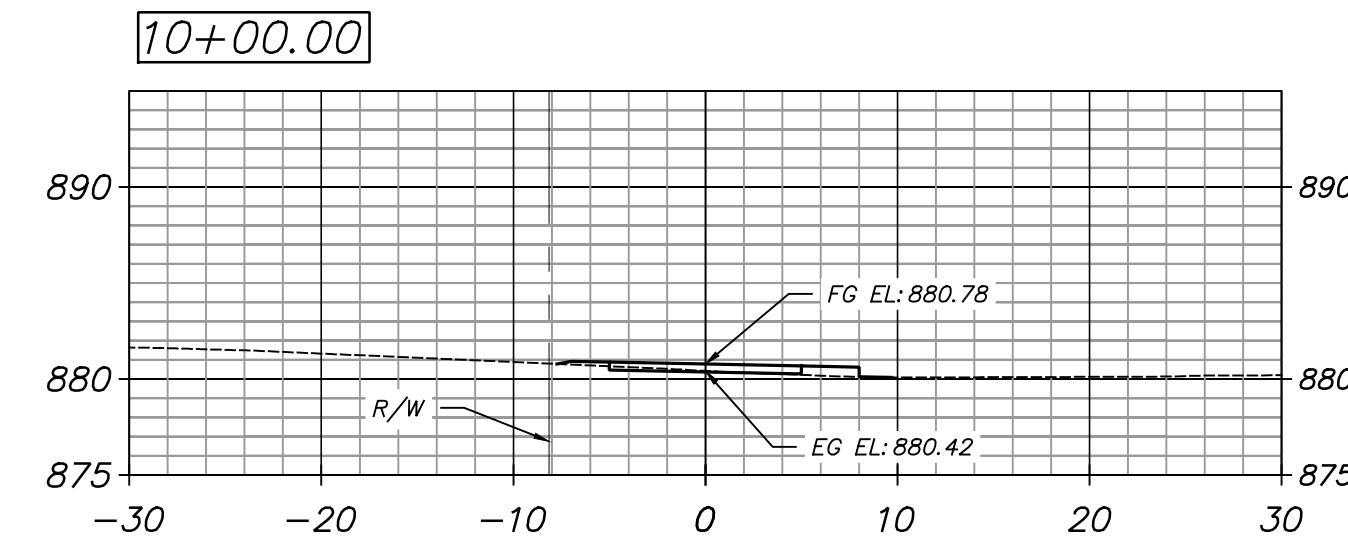
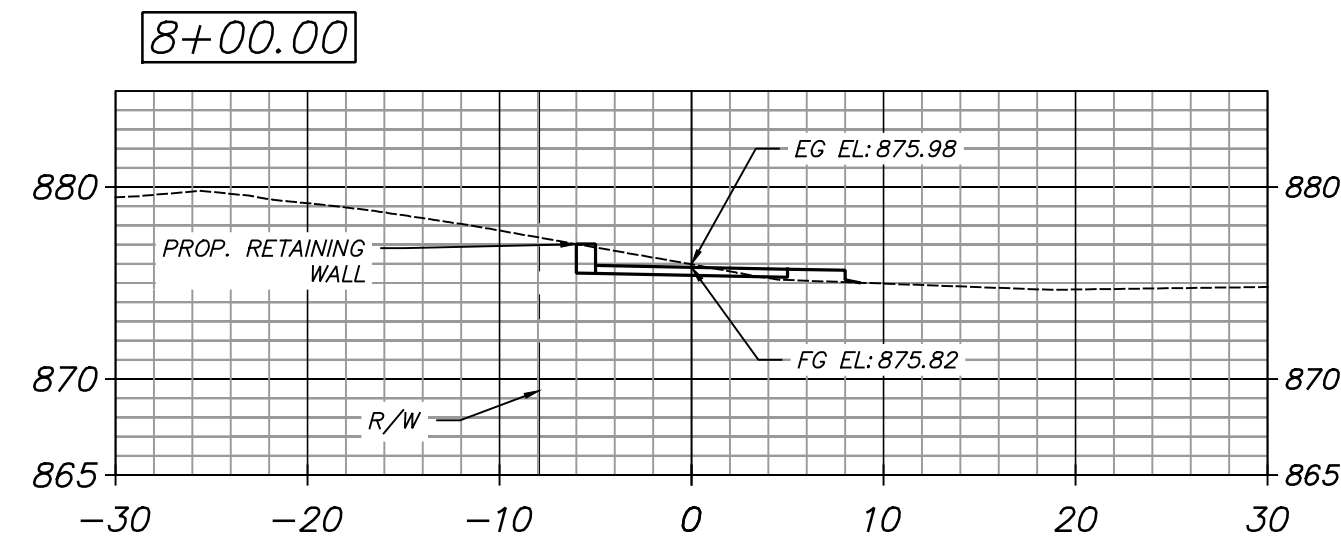
CITY OF BROOKHAVEN
 DONALD SHERRILL - PUBLIC WORKS
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REVISION DATES	
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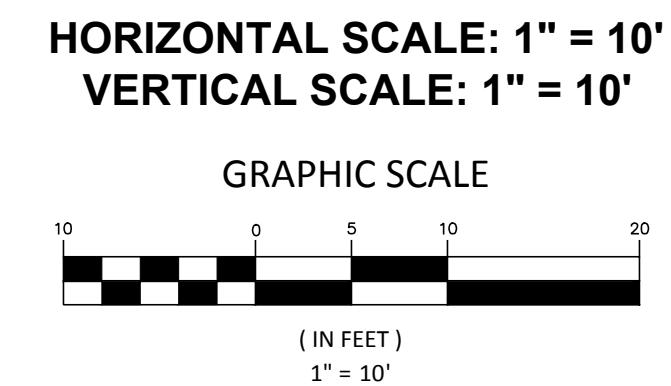
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
CROSS-SECTIONS
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
23-0001



PLANS PREPARED BY:
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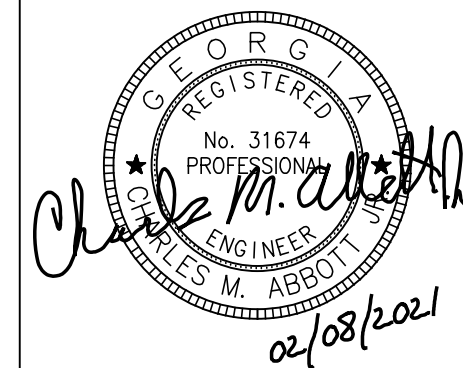
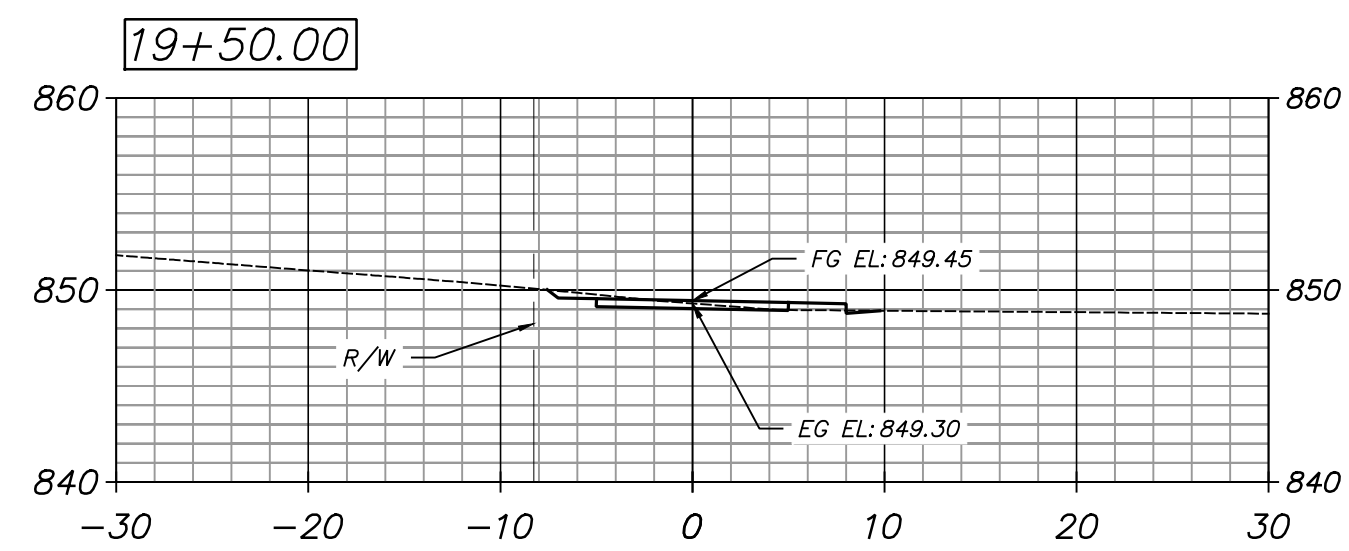
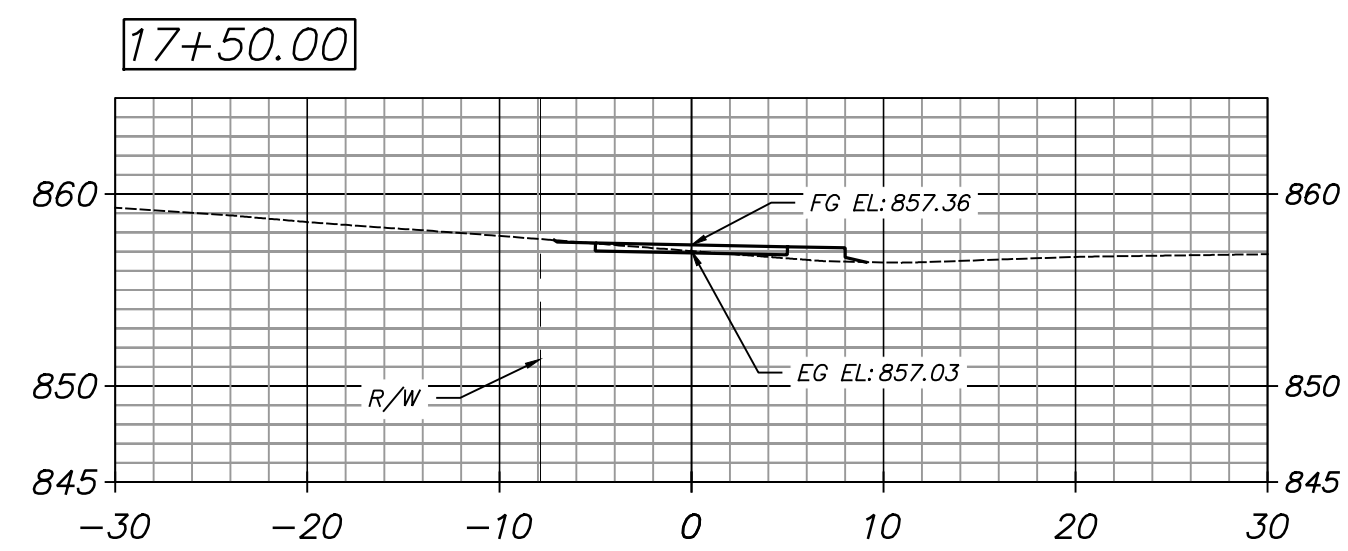
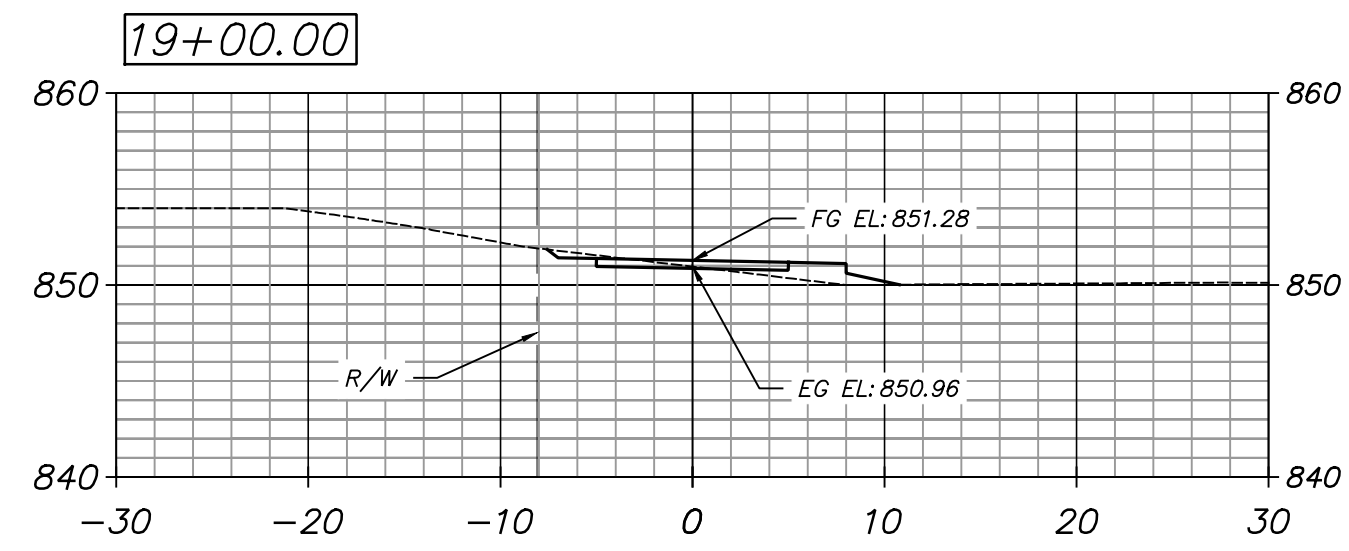
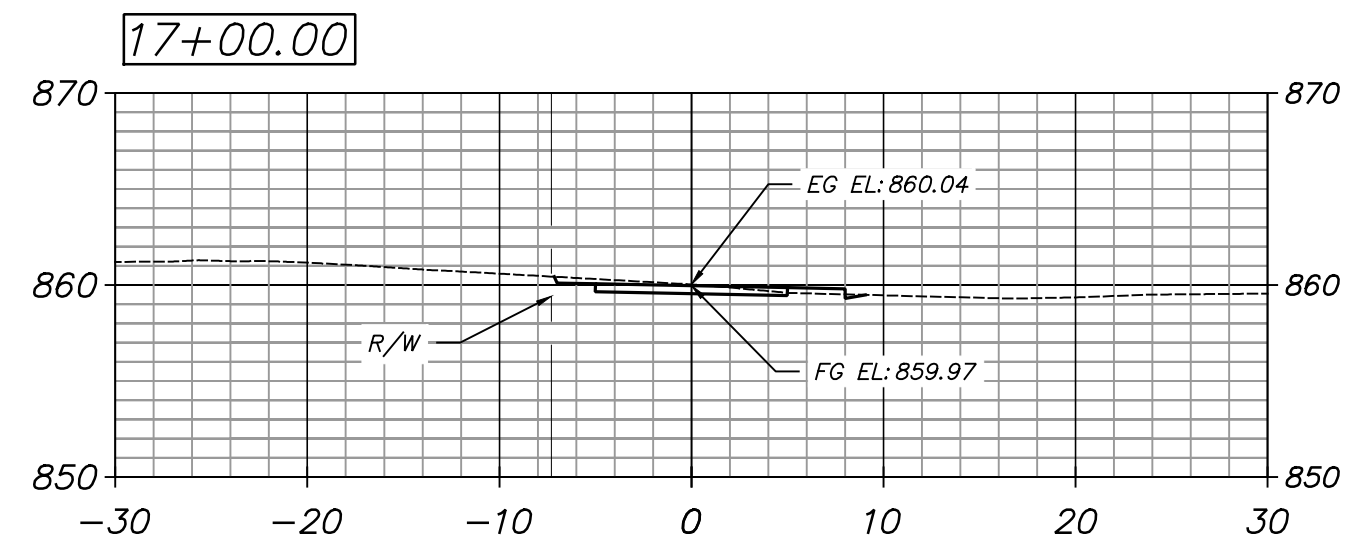
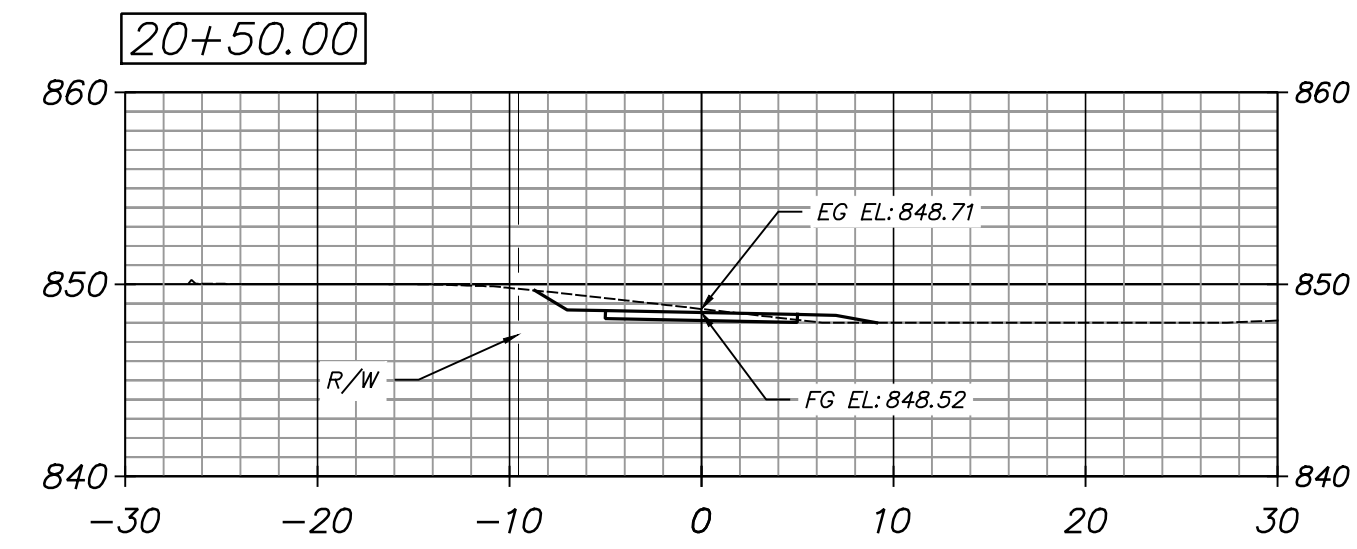
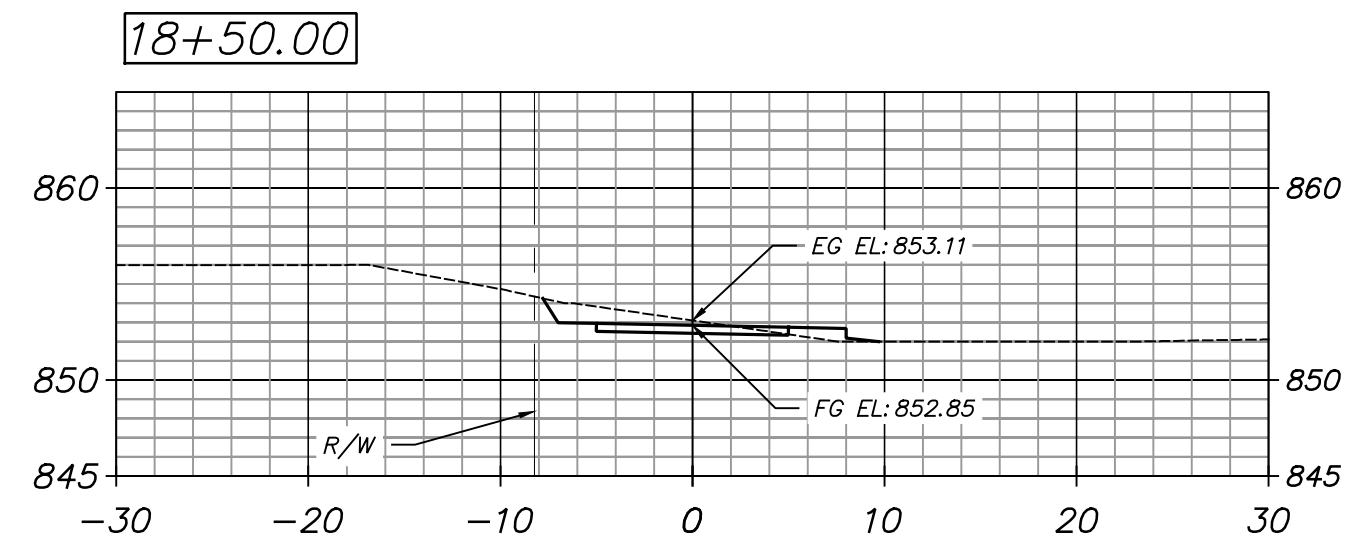
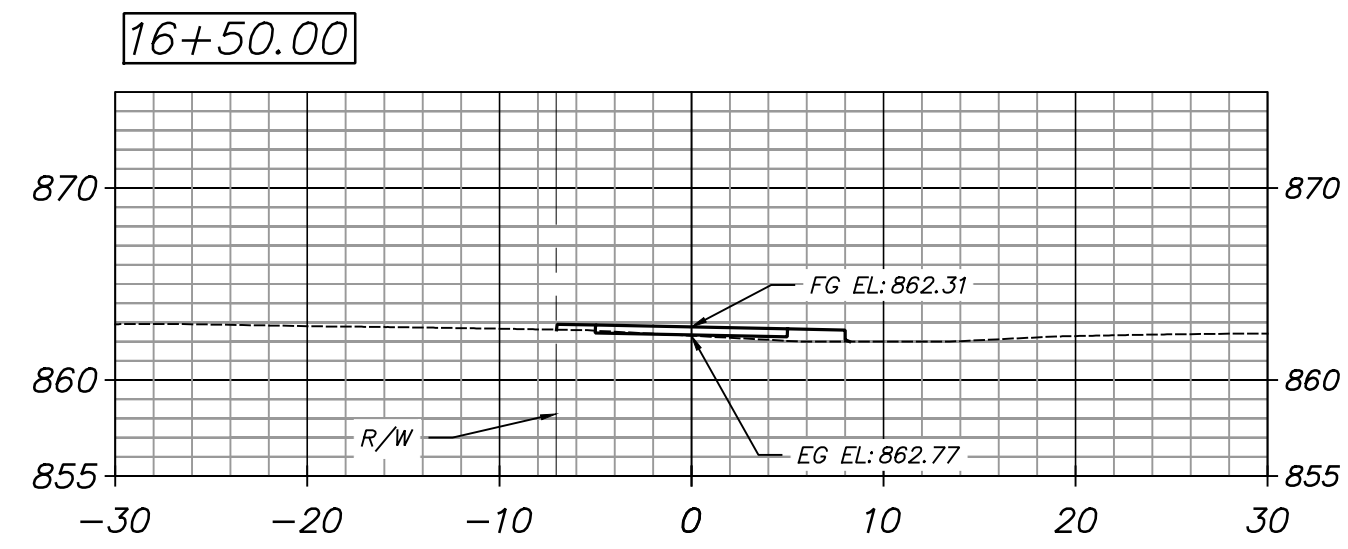
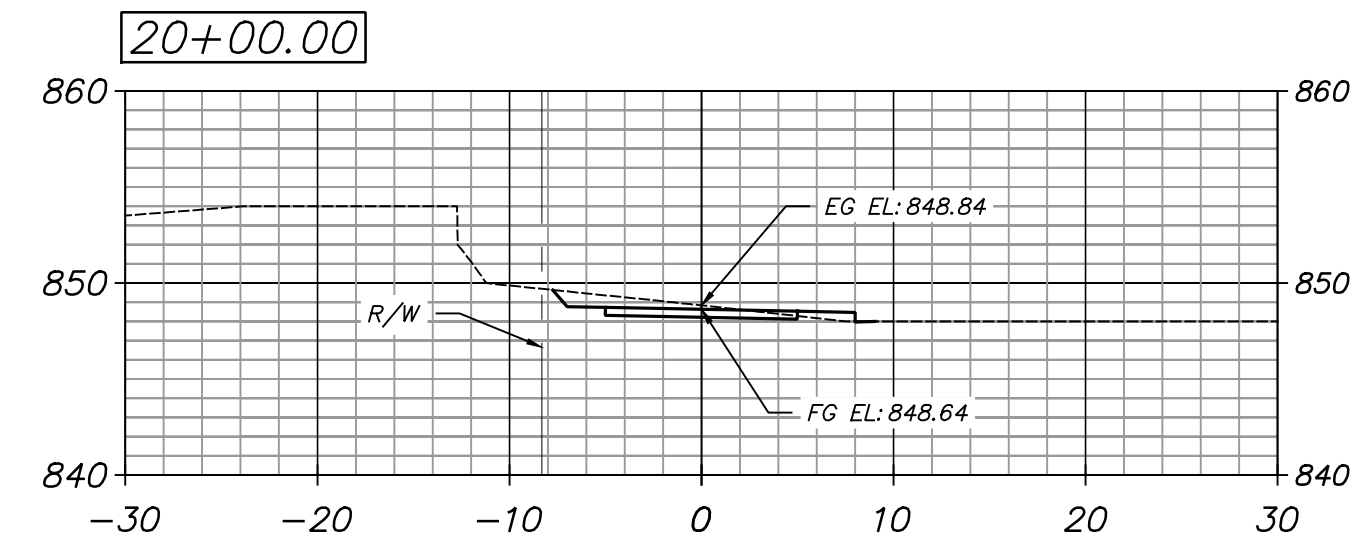
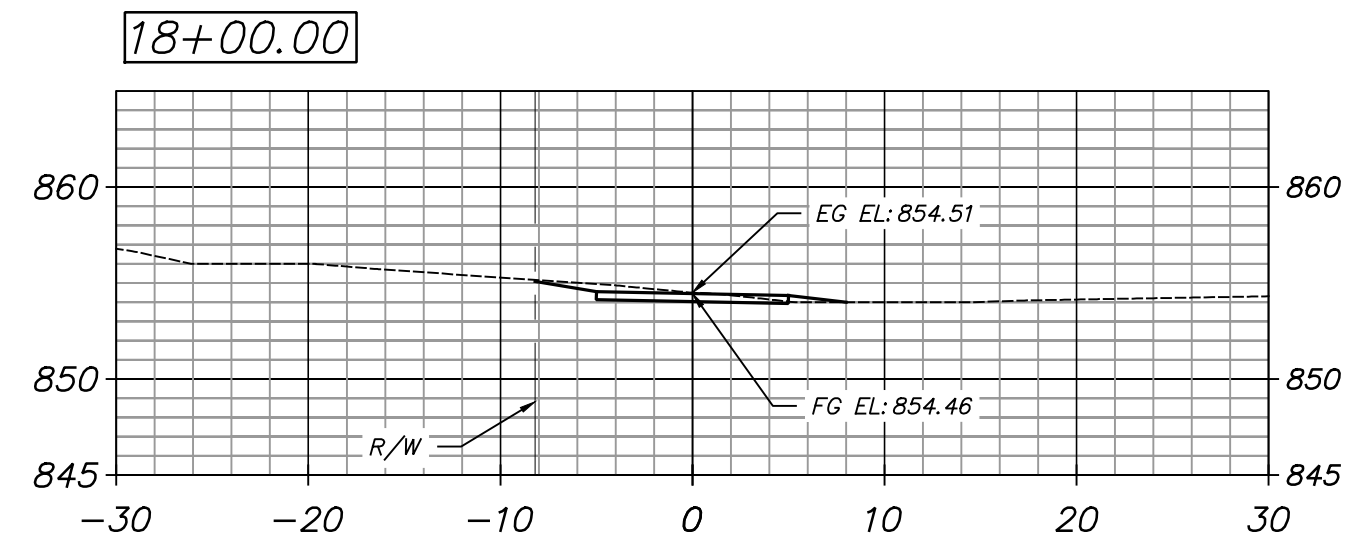
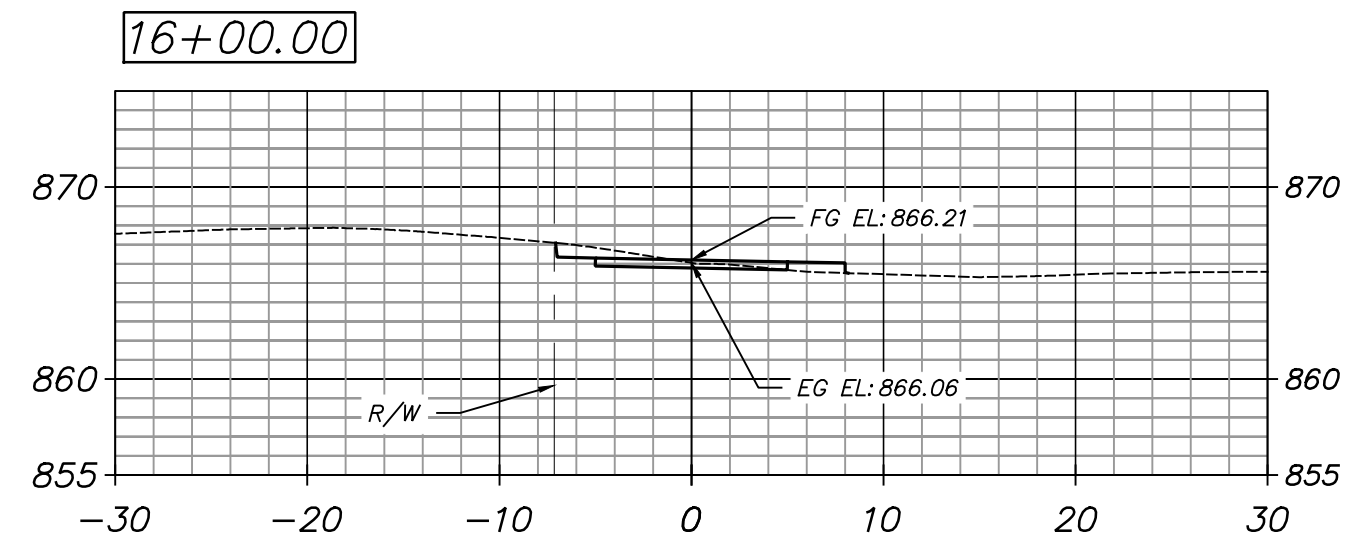
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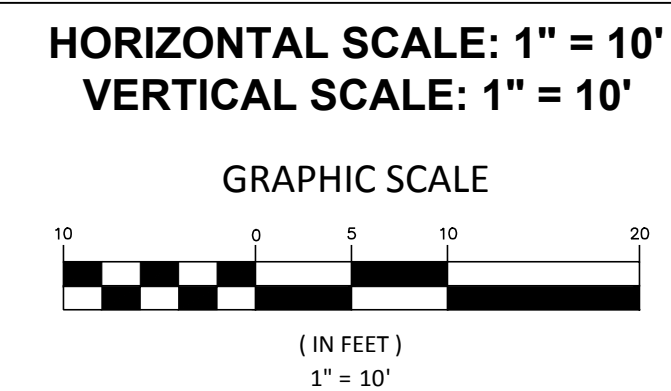
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
CROSS-SECTIONS
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
23-0002



PLANS PREPARED BY:
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

CROSS-SECTIONS

N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
23-0003

1. UTILITY LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION OF ALL UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS OPERATIONS WITH ALL UTILITIES WHICH MAY BE EXISTING AND MAY BE IN CONFLICT WITH HIS WORK. THE CONTRACTOR IS TO PROTECT AND MAINTAIN SUCH UTILITIES.

2. THE CONTRACTOR IS REQUIRED TO RETAIN AN INDEPENDENT UTILITY LOCATING SERVICE TO LOCATE EXISTING UTILITIES ABOVE AND BELOW GRADE. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION CENTER (800-282- 7411) AS REQUIRED BY GEORGIA LAW, AND SHALL CONTACT ALL UTILITIES, AGENCIES OR DEPARTMENTS THAT OWN OR OPERATE UTILITIES IN THE VICINITY OF THE PROJECT SITE AT LEAST 48 BUSINESS HOURS (TWO BUSINESS DAYS) PRIOR TO EXCAVATION ACTIVITIES TO VERIFY THE LOCATIONS OF EXISTING UTILITIES.

3. CONTRACTOR SHALL EXERCISE FULL CARE AND SHALL USE APPROPRIATE METHODS AND EQUIPMENT DURING CONSTRUCTION ACTIVITIES AND PROVIDE PROTECTION OF UTILITIES, STRUCTURES, AND FACILITIES IN AND AROUND THE SITE. ALL EXISTING UTILITIES, IMPROVEMENTS, AND STRUCTURES WHICH ARE TO REMAIN, BUT ARE DAMAGED BY THE CONTRACTOR, SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS EXPENSE.

4. LOCATIONS, SIZES, AND MATERIALS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. UTILITIES SHOWN ON THESE DRAWINGS WERE COMPILED FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND BY SURVEYS PERFORMED BY STREET SMARTS AND AMEC. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION.

5. THE WORK COVERED BY THESE DRAWINGS INCLUDES THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS, AND INSURANCE REQUIRED TO RELOCATE EXISTING UTILITIES AND CONSTRUCT AND INSTALL ALL NEW UTILITIES SHOWN ON THESE DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE OR UTILITY OWNER.

6. CONTRACTOR SHALL COORDINATE WORK WITH GEORGIA POWER, ATLANTA GAS LIGHT, DEKALB COUNTY WATER/SEWER DEPARTMENT, ALL TELECOMMUNICATION PROVIDERS, AND ANY OTHER UTILITY COMPANIES FOR UTILITY RELOCATION PRIOR TO CONSTRUCTION ACTIVITY.

7. CONTRACTOR SHALL INSTALL PIPE MATERIALS WITH BEDDING CLASS/TYPE AS SHOWN ON THE DRAWINGS, UNLESS OTHERWISE SPECIFIED.

8. ANY WORK PERTAINING TO UTILITY POLES SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE UTILITY.

9. SEPARATE SEARCH FOR EASEMENTS OF RECORD IS NOT TO BE IMPLIED BY THESE DRAWINGS.

10. CONTRACTOR SHALL INSTALL STEEL COVER PLATES ON OPEN TRENCHES OR HOLES AT THE END OF EACH DAY'S WORK TO PROTECT THE PUBLIC. THE PLATES WILL BE PLACED IN DRIVEWAYS AS WELL AS ROADS.

11. CONTRACTOR SHALL PROVIDE PROPER SUPPORT FOR EXISTING UTILITIES DURING CONSTRUCTION TO PREVENT DAMAGE TO EXISTING UTILITIES. ANY DAMAGE DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE RESPECTIVE UTILITY OWNER AND PAID FOR BY THE CONTRACTOR.

12. THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM INLETS, SEWER MANHOLES, AND INVERT ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.

13. BACKFILL OF ALL TRENCHES SHALL BE FREE OF DEBRIS, STUMPS, ROOTS, OR OTHER FOREIGN MATERIAL AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL, AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST METHOD (ASTM D698). WHERE TRENCHES ARE LOCATED IN PAVED AREAS THE UPPER TWO FEET OF BACKFILL SHALL BE COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY OF THE MATERIAL. CORRECTIONS OF ANY TRENCH SETTLEMENT WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER SHALL BE RESPONSIBILITY OF THE CONTRACTOR.

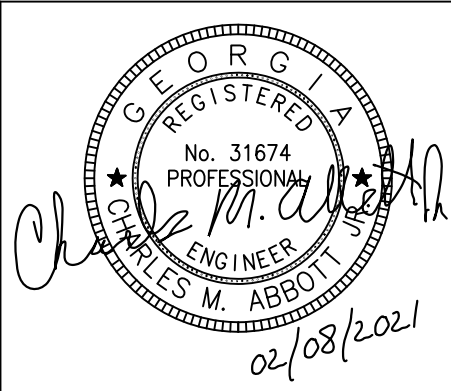
14. WHERE CITY OF BROOKHAVEN AND/OR DEKALB COUNTY PUBLIC WORKS REGULATIONS CONFLICT WITH THE ABOVE, CITY OR COUNTY REQUIREMENTS SHALL BE FOLLOWED.

15. DEKALB COUNTY GIS UTILITY DATA FOR APPROXIMATE LOCATIONS OF DEEP SANITARY AND STORM LINES. THESE UTILITIES ARE SCHEDULED TO REMAIN IN USE AND PROTECTED THROUGHOUT THE PROJECT DURATION.

LEGEND	
AIF	ANGLE IRON FOUND
AMF	ALUM. MONUMENT FOUND
BC	BACK OF CURB
BSL	BUILDING SETBACK LINE
CB	CATCH BASIN
Ⓢ	CABLE BOX
C/L	CENTERLINE
CMF	CONC. MONUMENT FOUND
⊙	CLEANOUT
CONC.	CONCRETE
CTF	CRIMPED TOP FOUND
DB	DEED BOOK
DE	DRAINAGE EASEMENT
Ⓜ	DROP INLET
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
Ⓜ	FIRE HYDRANT
Ⓢ	GAS METER
GMD	GEORGIA MILITIA DISTRICT
⌒	HEADWALL
IPS	1/2" REBAR SET
⊙	JUNCTION BOX
LL	LAND LOT
LLL	LAND LOT LINE
*	LIGHT POLE
Ⓜ	MANHOLE
MNS	MAG NAIL SET
N/F	NOW OR FORMERLY
OHP	OVERHEAD POWER
OTF	OPEN TOP FOUND
PB	PLAT BOOK
Ⓢ	POWER BOX
P/L	PROPERTY LINE
POB	POINT OF BEGINNING
Ⓢ	POWER POLE
PS	PLAT SLIDE
RBF	REBAR FOUND
R/W	RIGHT OF WAY
S/D	SUBDIVISION
Ⓢ	SERVICE POLE
Ⓢ	UTILITY MANHOLE
Ⓢ	WATER METER
Ⓢ	WATER VALVE
Ⓢ	YARD INLET

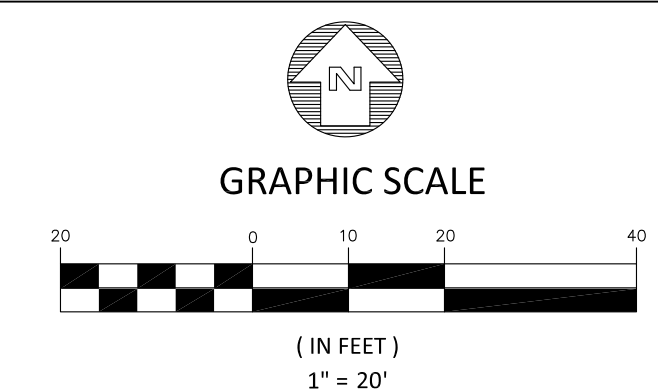
UTILITY CONTACTS IN PROJECT AREA, BUT NOT LIMITED TO:	
ELECTRICAL :	GEORGIA POWER
GAS :	ATLANTA GAS LIGHT
SEWER :	DEKALB COUNTY
WATER :	DEKALB COUNTY
TELECOM :	COMCAST, AT&T
FIBER OPTICS:	AT&T, CROWN CASTLE
CABLE TV :	COMCAST, AT&T

LINETYPE LEGEND	
—○—	FENCE
—G—	GAS LINE
—OP—	OVERHEAD POWER
—SS—	SEWER LINE
—UT—	UNDERGROUND COMMUNICATION
—UP—	UNDERGROUND POWER LINE
—W—	WATER LINE
—900—	CONTOUR LINE
—P/L—	EXISTING PROPERTY LINE
—R/W—	EXISTING RIGHT-OF-WAY



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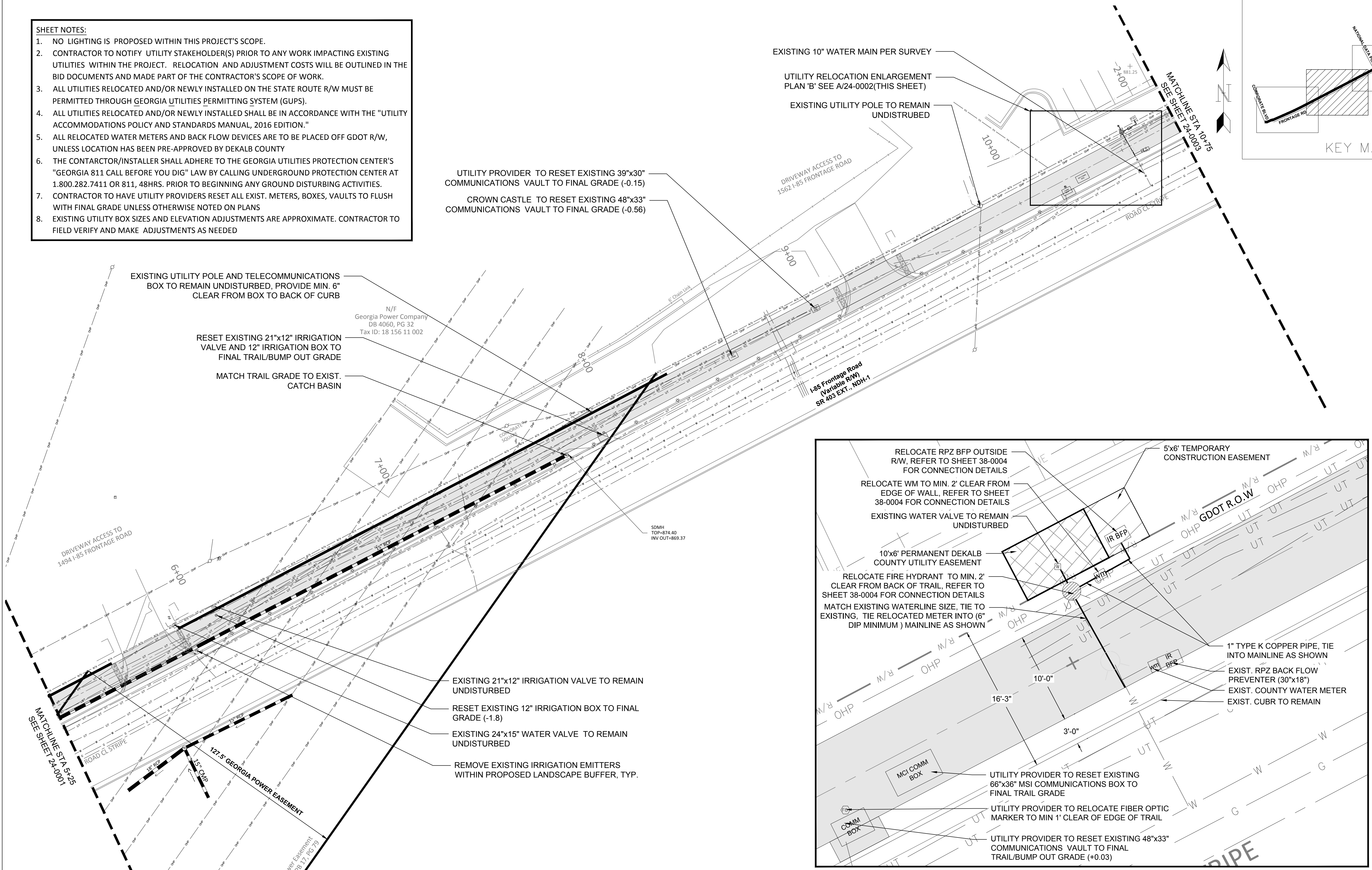
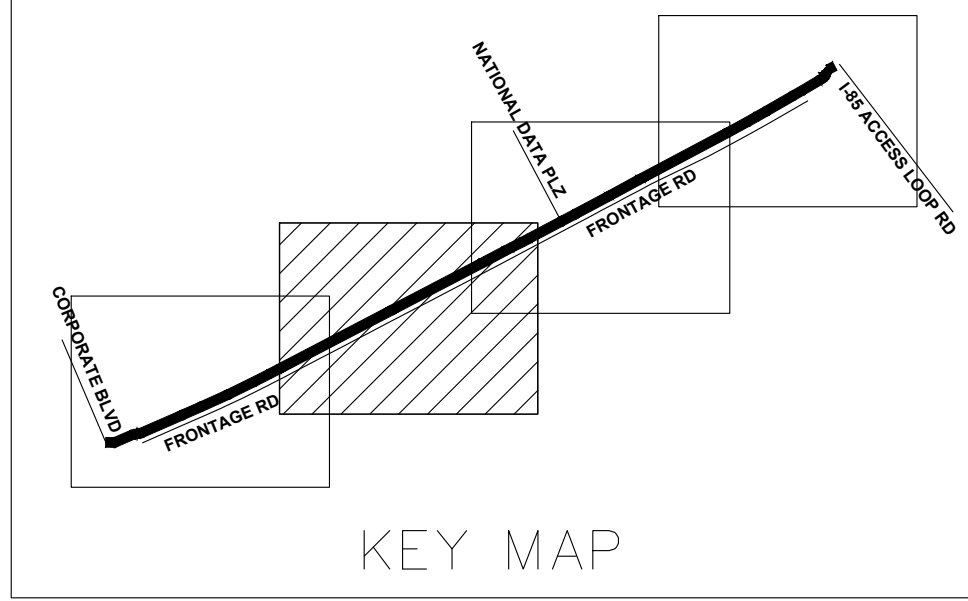


REVISION DATES	
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REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

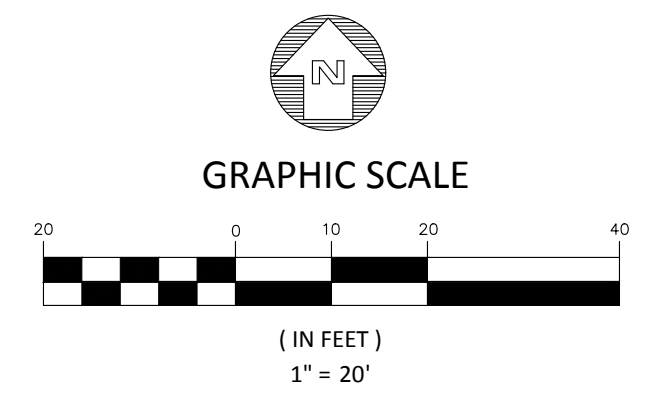
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
UTILITY NOTES AND LEGEND
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No. 24-0000

SHEET NOTES:

1. NO LIGHTING IS PROPOSED WITHIN THIS PROJECT'S SCOPE.
2. CONTRACTOR TO NOTIFY UTILITY STAKEHOLDER(S) PRIOR TO ANY WORK IMPACTING EXISTING UTILITIES WITHIN THE PROJECT. RELOCATION AND ADJUSTMENT COSTS WILL BE OUTLINED IN THE BID DOCUMENTS AND MADE PART OF THE CONTRACTOR'S SCOPE OF WORK.
3. ALL UTILITIES RELOCATED AND/OR NEWLY INSTALLED ON THE STATE ROUTE R/W MUST BE PERMITTED THROUGH GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
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7. CONTRACTOR TO HAVE UTILITY PROVIDERS RESET ALL EXIST. METERS, BOXES, VAULTS TO FLUSH WITH FINAL GRADE UNLESS OTHERWISE NOTED ON PLANS
8. EXISTING UTILITY BOX SIZES AND ELEVATION ADJUSTMENTS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND MAKE ADJUSTMENTS AS NEEDED



A UTILITY RELOCATION ENLARGEMENT PLAN 'B'
24-0002 SCALE: 1" = 10'-0"

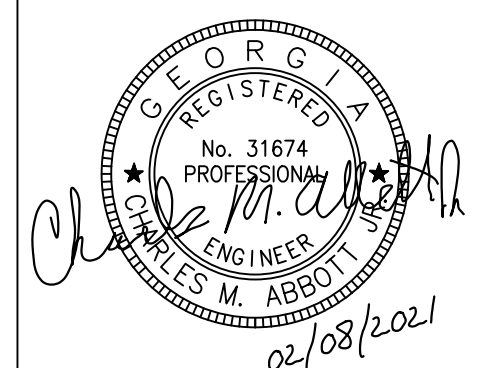


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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

UTILITY PLAN
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
24-0002



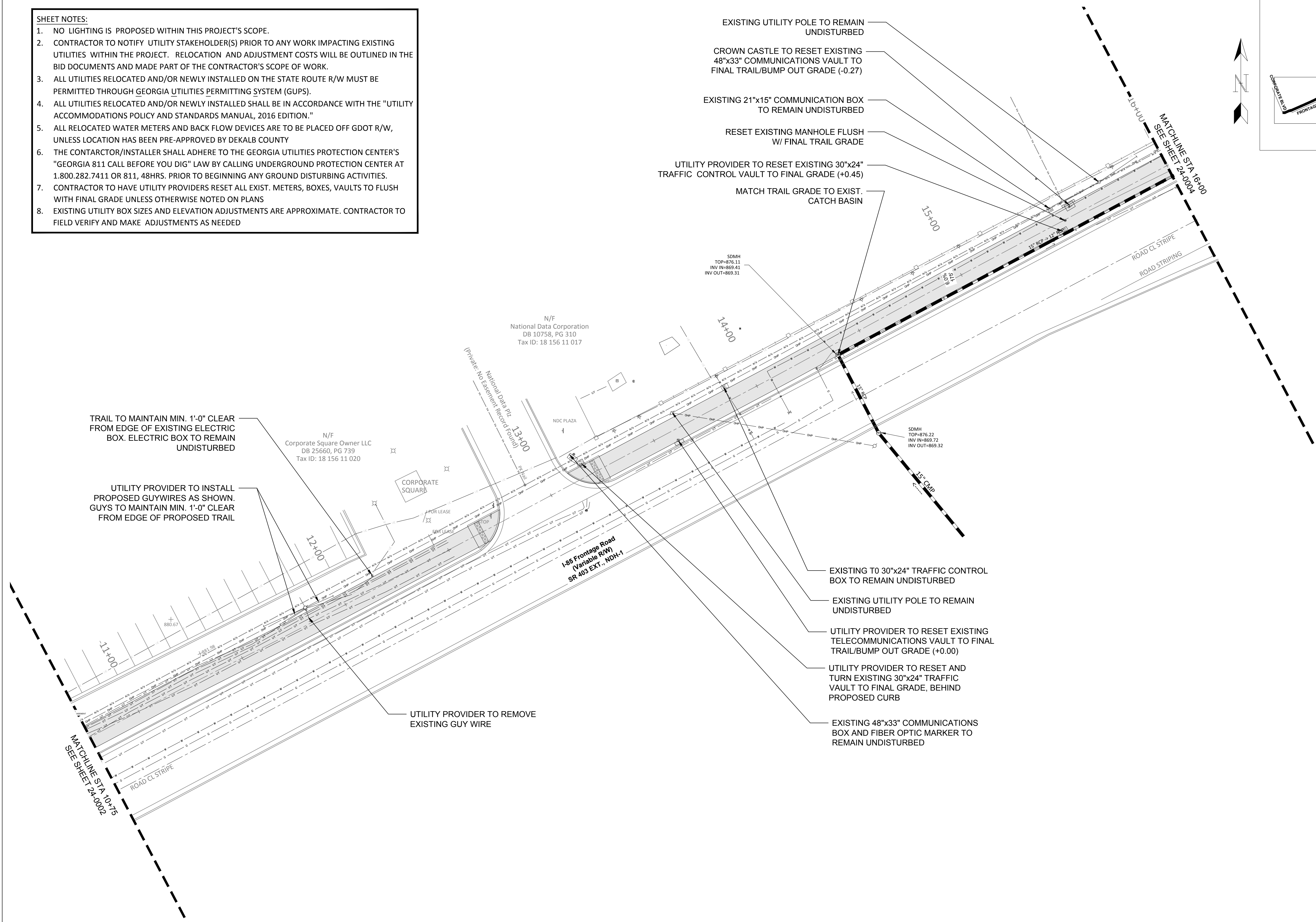
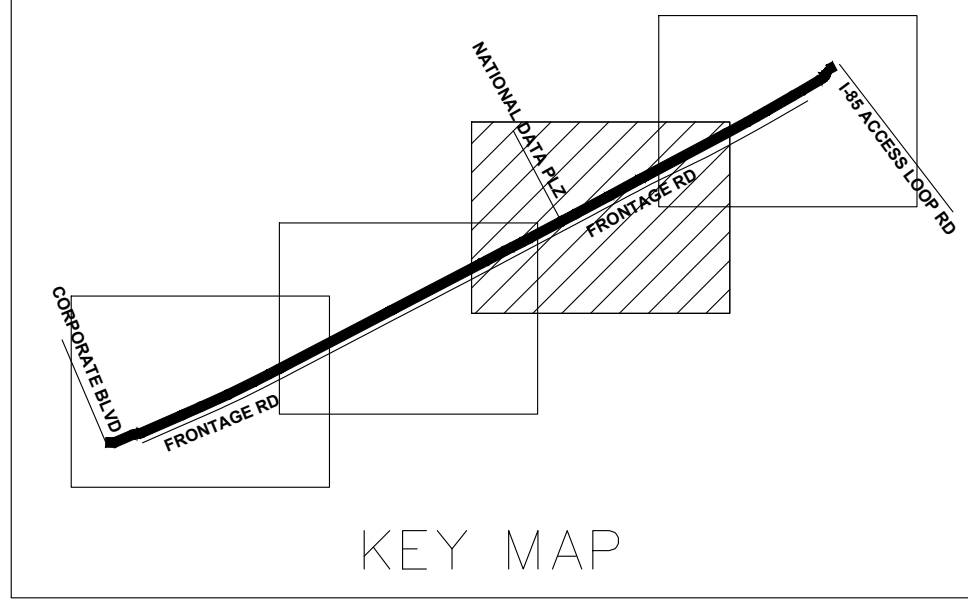
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SHEET NOTES:

1. NO LIGHTING IS PROPOSED WITHIN THIS PROJECT'S SCOPE.
2. CONTRACTOR TO NOTIFY UTILITY STAKEHOLDER(S) PRIOR TO ANY WORK IMPACTING EXISTING UTILITIES WITHIN THE PROJECT. RELOCATION AND ADJUSTMENT COSTS WILL BE OUTLINED IN THE BID DOCUMENTS AND MADE PART OF THE CONTRACTOR'S SCOPE OF WORK.
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7. CONTRACTOR TO HAVE UTILITY PROVIDERS RESET ALL EXIST. METERS, BOXES, VAULTS TO FLUSH WITH FINAL GRADE UNLESS OTHERWISE NOTED ON PLANS
8. EXISTING UTILITY BOX SIZES AND ELEVATION ADJUSTMENTS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND MAKE ADJUSTMENTS AS NEEDED



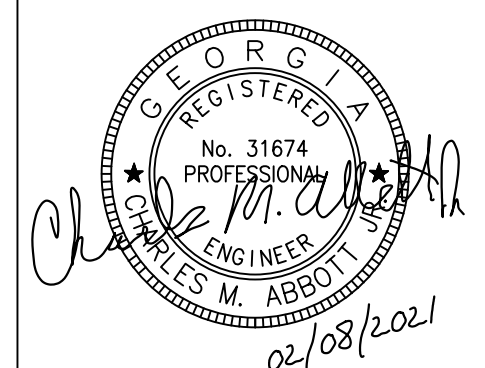
TRAIL TO MAINTAIN MIN. 1'-0" CLEAR FROM EDGE OF EXISTING ELECTRIC BOX. ELECTRIC BOX TO REMAIN UNDISTURBED

UTILITY PROVIDER TO INSTALL PROPOSED GUYWIRES AS SHOWN. GUY TO MAINTAIN MIN. 1'-0" CLEAR FROM EDGE OF PROPOSED TRAIL

UTILITY PROVIDER TO REMOVE EXISTING GUY WIRE

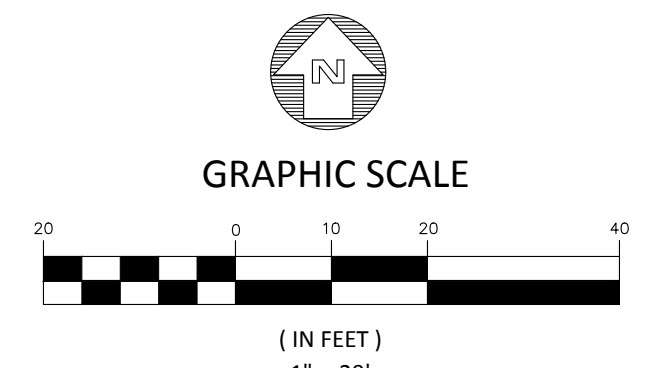
- EXISTING UTILITY POLE TO REMAIN UNDISTURBED
- CROWN CASTLE TO RESET EXISTING 48"x33" COMMUNICATIONS VAULT TO FINAL TRAIL/BUMP OUT GRADE (-0.27)
- EXISTING 21"x15" COMMUNICATION BOX TO REMAIN UNDISTURBED
- RESET EXISTING MANHOLE FLUSH W/ FINAL TRAIL GRADE
- UTILITY PROVIDER TO RESET EXISTING 30"x24" TRAFFIC CONTROL VAULT TO FINAL GRADE (+0.45)
- MATCH TRAIL GRADE TO EXIST. CATCH BASIN

- EXISTING 30"x24" TRAFFIC CONTROL BOX TO REMAIN UNDISTURBED
- EXISTING UTILITY POLE TO REMAIN UNDISTURBED
- UTILITY PROVIDER TO RESET EXISTING TELECOMMUNICATIONS VAULT TO FINAL TRAIL/BUMP OUT GRADE (+0.00)
- UTILITY PROVIDER TO RESET AND TURN EXISTING 30"x24" TRAFFIC VAULT TO FINAL GRADE, BEHIND PROPOSED CURB
- EXISTING 48"x33" COMMUNICATIONS BOX AND FIBER OPTIC MARKER TO REMAIN UNDISTURBED



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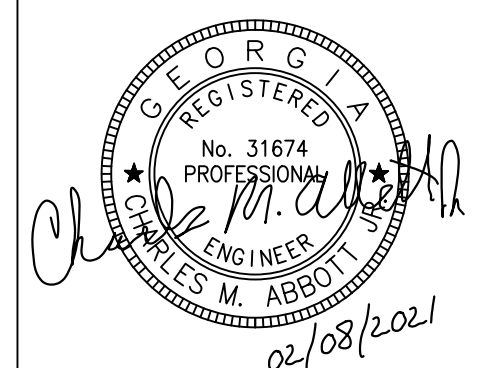
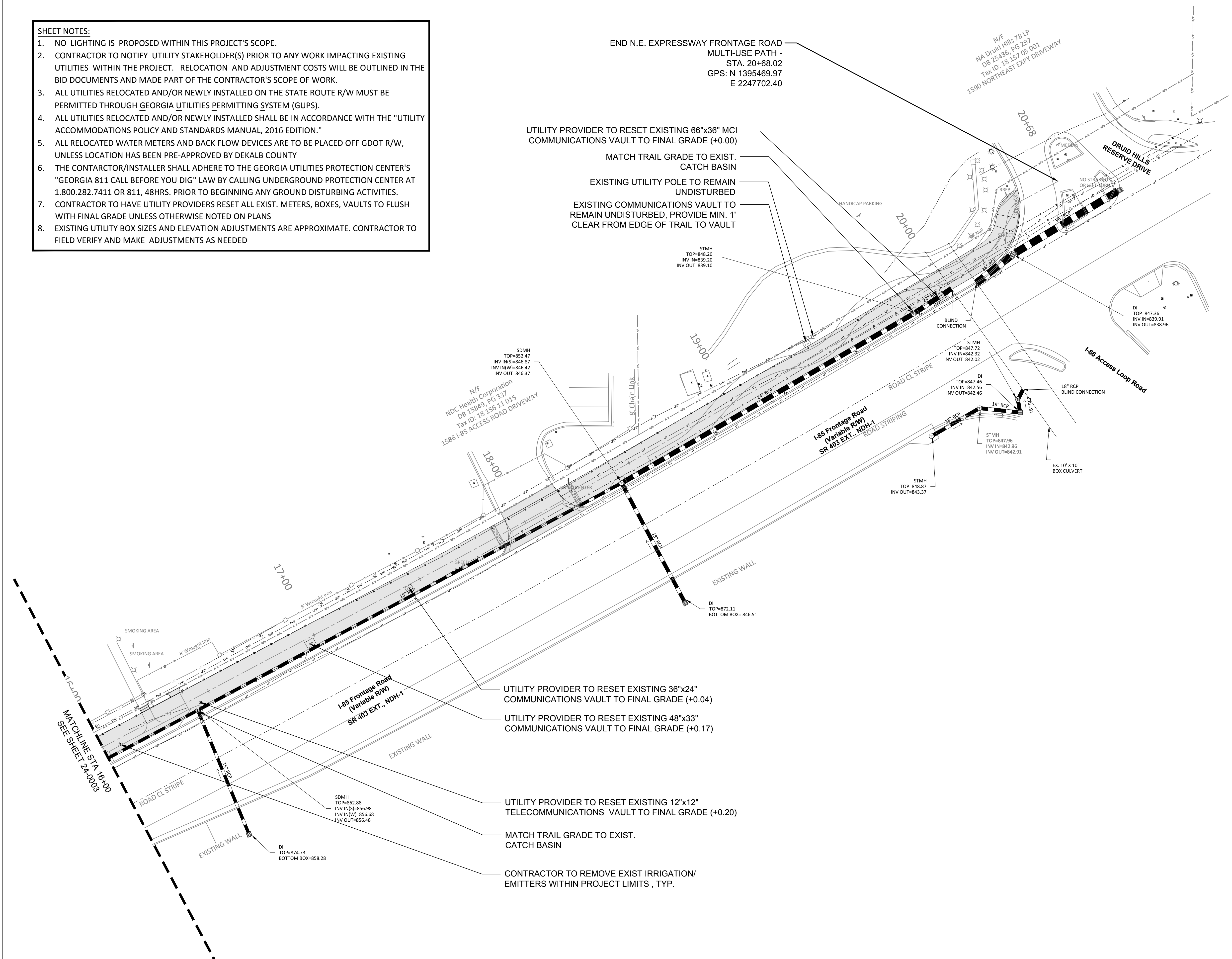
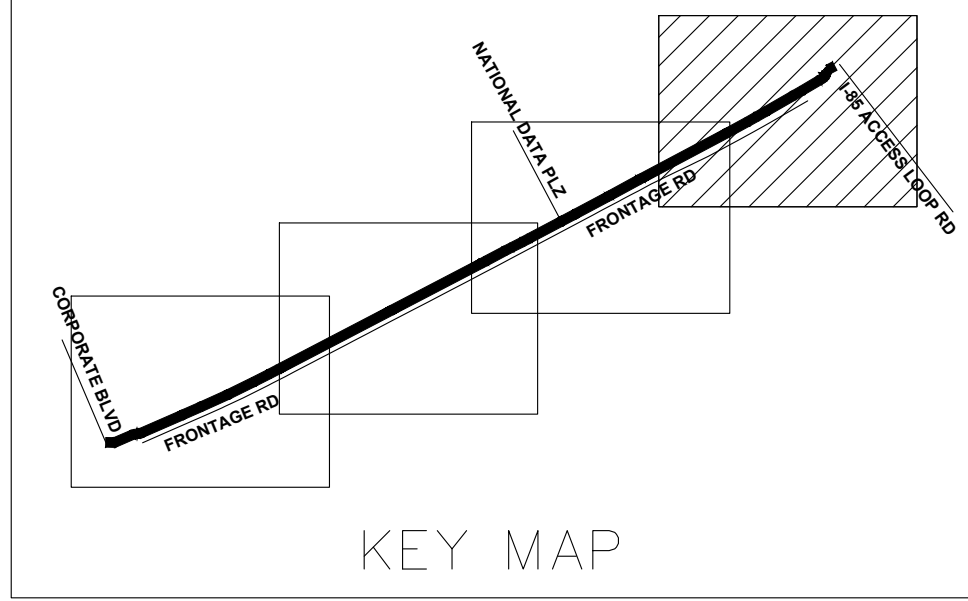
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

UTILITY PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

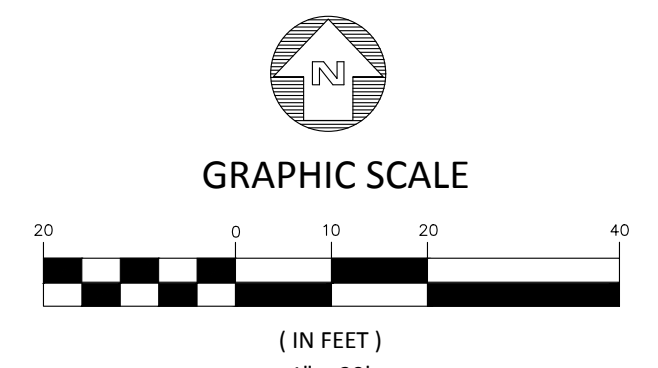
DRAWING No.
24-0003

- SHEET NOTES:**
1. NO LIGHTING IS PROPOSED WITHIN THIS PROJECT'S SCOPE.
 2. CONTRACTOR TO NOTIFY UTILITY STAKEHOLDER(S) PRIOR TO ANY WORK IMPACTING EXISTING UTILITIES WITHIN THE PROJECT. RELOCATION AND ADJUSTMENT COSTS WILL BE OUTLINED IN THE BID DOCUMENTS AND MADE PART OF THE CONTRACTOR'S SCOPE OF WORK.
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

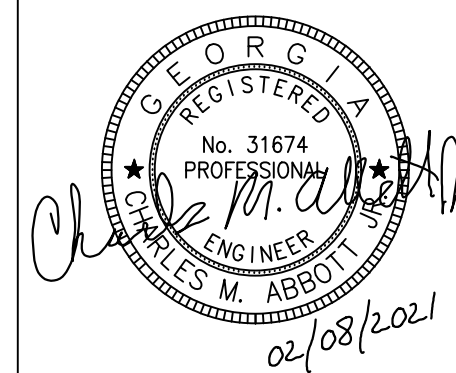
UTILITY PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No. 24-0004

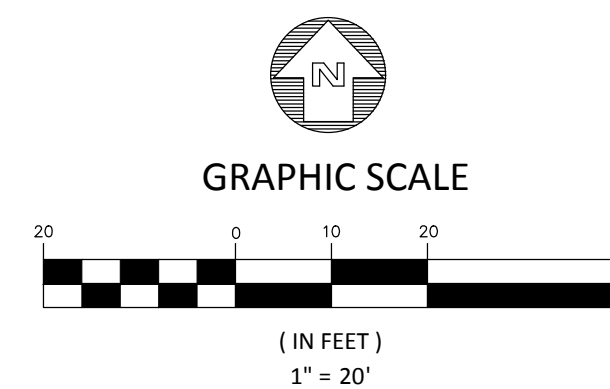
GENERAL NOTES – STANDARD SIGNS

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS. SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY. BUT SHALL BE WITHIN THE LIMITATIONS SET FROTHING THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NIO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC SAFETY AND DESIGN.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERRECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BUTTON OF THE SIGN OR ASSEMBLY.
- 4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED. AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY TYPICAL FRAMING DETAILS.
8. TYPE 3 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFECTORIES BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. BICYCLE CROSSING (W11-1) SIGNS. AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
11. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S). ADDITIONAL 3/8 INCH DIAMETER HOLE(S). DRILLED OR PUNCHED. SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE. U.S., AND GEORGIA SHIELD REQUIRING ALT, BUS, COMM, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CURRENT EDITION FOR DETAILS.
15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT. IF ANY.
17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.



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 DESIGN ENGINEER LEVEL II CERTIFICATION
 GSWCC # 0000041686 EXPIRES: 04/13/2022
 CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
 T: 404-239-2521

CITY OF BROOKHAVEN
 DONALD SHERRILL - PUBLIC WORKS
 DEPUTY DIRECTOR
 4362 PEACHTREE RD., BROOKHAVEN, GA 30319
 E: DON.SHERRILL@BROOKHAVENGA.GOV
 O: 404-991-4763 C: 404-637-0682



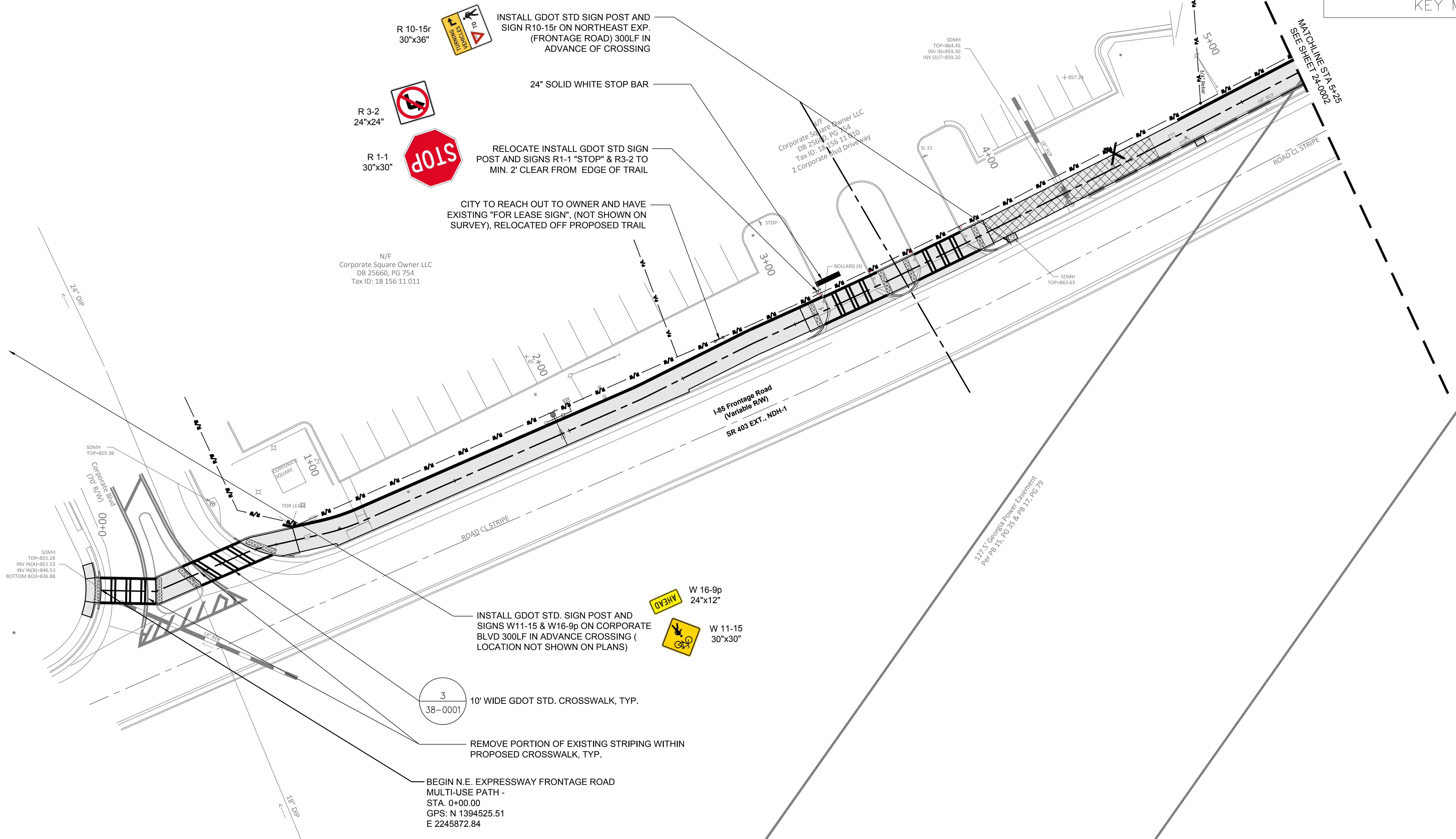
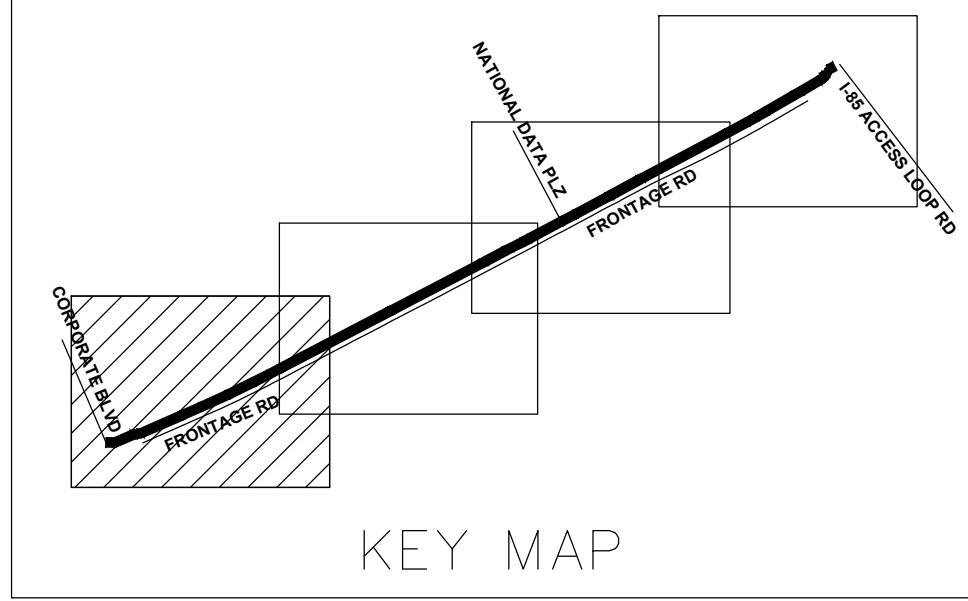
REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
△ REV. 1 CITY COMMENTS	01/11/2021
△ REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
SIGNING AND MARKING
NOTES AND DETAILS
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
26-0000

SHEET NOTES:

1. ALL NEW ROAD & GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT AND PAINT ON CONCRETE.
2. SIGN PLACEMENTS ARE APPROX. & MAY BE ADJUSTED TO MEET FIELD CONDITIONS, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD, CURRENT EDITION.
3. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING.



R 10-15r 30"x36"
 INSTALL GDOT STD SIGN POST AND SIGN R10-15r ON NORTHEAST EXP. (FRONTAGE ROAD) 300LF IN ADVANCE OF CROSSING

R 3-2 24"x24"
 24" SOLID WHITE STOP BAR

R 1-1 30"x30"
 RELOCATE INSTALL GDOT STD SIGN POST AND SIGNS R1-1 "STOP" & R3-2 TO MIN. 2' CLEAR FROM EDGE OF TRAIL

CITY TO REACH OUT TO OWNER AND HAVE EXISTING "FOR LEASE SIGN", (NOT SHOWN ON SURVEY), RELOCATED OFF PROPOSED TRAIL

N/F
 Corporate Square Owner LLC
 DB 25660, PG 754
 Tax ID: 18 156 11 011

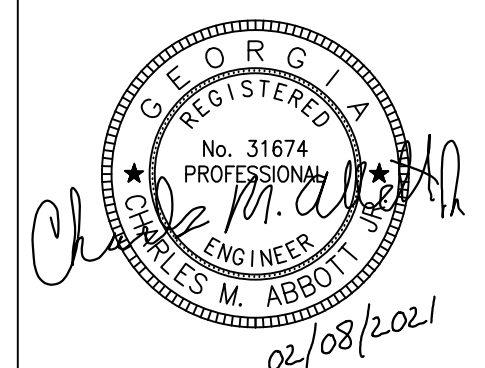
W 16-9p 24"x12"
 W 11-15 30"x30"

INSTALL GDOT STD. SIGN POST AND SIGNS W11-15 & W16-9p ON CORPORATE BLVD 300LF IN ADVANCE CROSSING (LOCATION NOT SHOWN ON PLANS)

3
 38-0001
 10' WIDE GDOT STD. CROSSWALK, TYP.

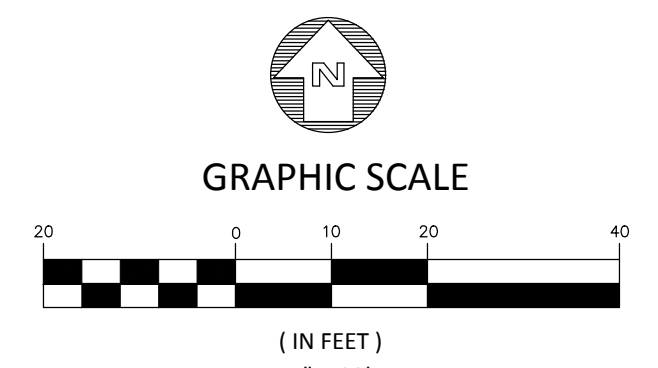
REMOVE PORTION OF EXISTING STRIPING WITHIN PROPOSED CROSSWALK, TYP.

BEGIN N.E. EXPRESSWAY FRONTAGE ROAD MULTI-USE PATH - STA. 0+00.00
 GPS: N 1394525.51
 E 2245872.84



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521
 CHARLES M. ABBOTT JR., P.E.
 DESIGN ENGINEER LEVEL II CERTIFICATION
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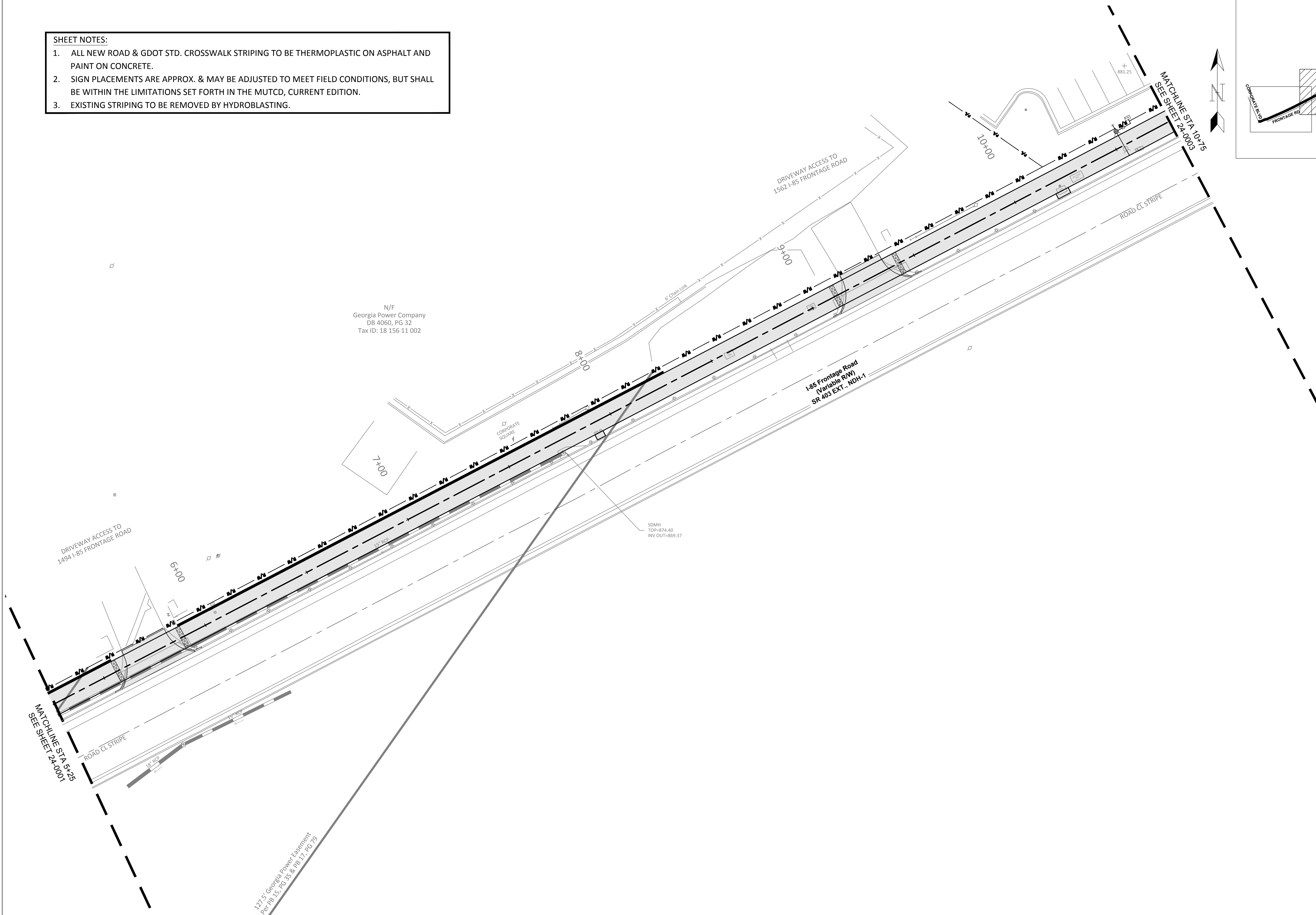
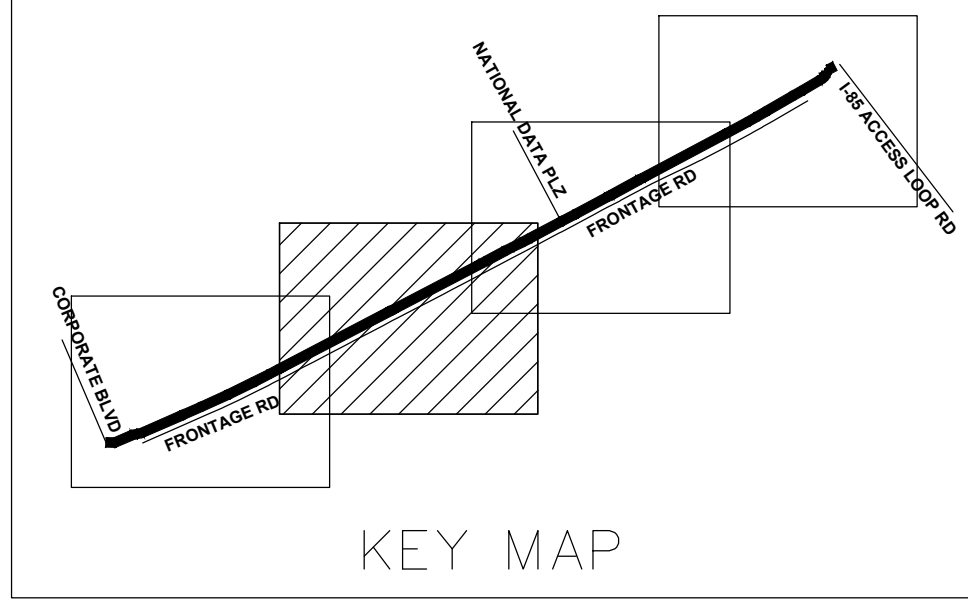


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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
SIGNING AND MARKING PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No. 26-0001

SHEET NOTES:

- 1. ALL NEW ROAD & GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT AND PAINT ON CONCRETE.
- 2. SIGN PLACEMENTS ARE APPROX. & MAY BE ADJUSTED TO MEET FIELD CONDITIONS, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD, CURRENT EDITION.
- 3. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING.



N/F
Georgia Power Company
DB 4060, PG 32
Tax ID: 18 156 11 002

I-85 Frontage Road
(Variable RWY)
SR 403 EXT., NDH-1

SDMH
TOP=874.40
INV OUT=869.37

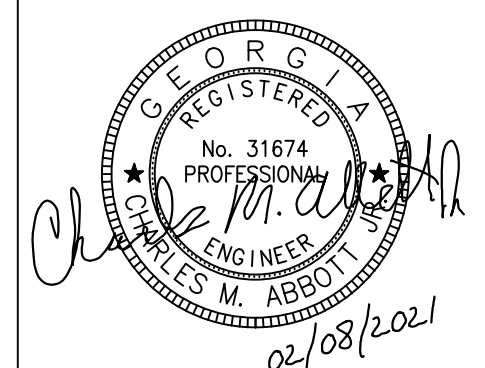
DRIVEWAY ACCESS TO
1494 I-85 FRONTAGE ROAD

DRIVEWAY ACCESS TO
1562 I-85 FRONTAGE ROAD

MATCHLINE STA 5+25
SEE SHEET 24-0001

MATCHLINE STA 10+75
SEE SHEET 24-0005

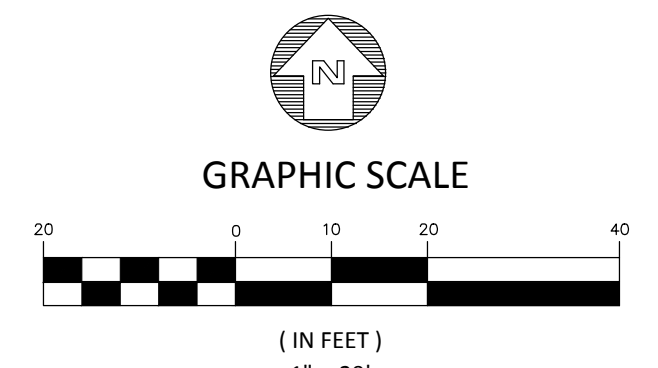
177.5' Georgia Power Easement
Per Pg 15, PG 35 & Pg 17, PG 79



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521

CHARLES M. ABBOTT JR, P.E.
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GSWCC # 0000041686 EXPIRES: 04/13/2022
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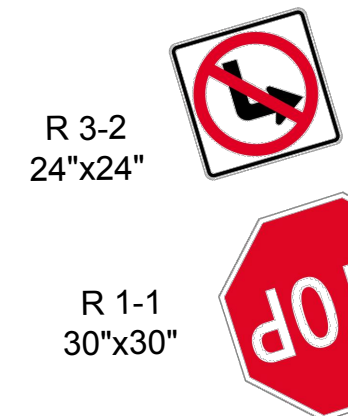
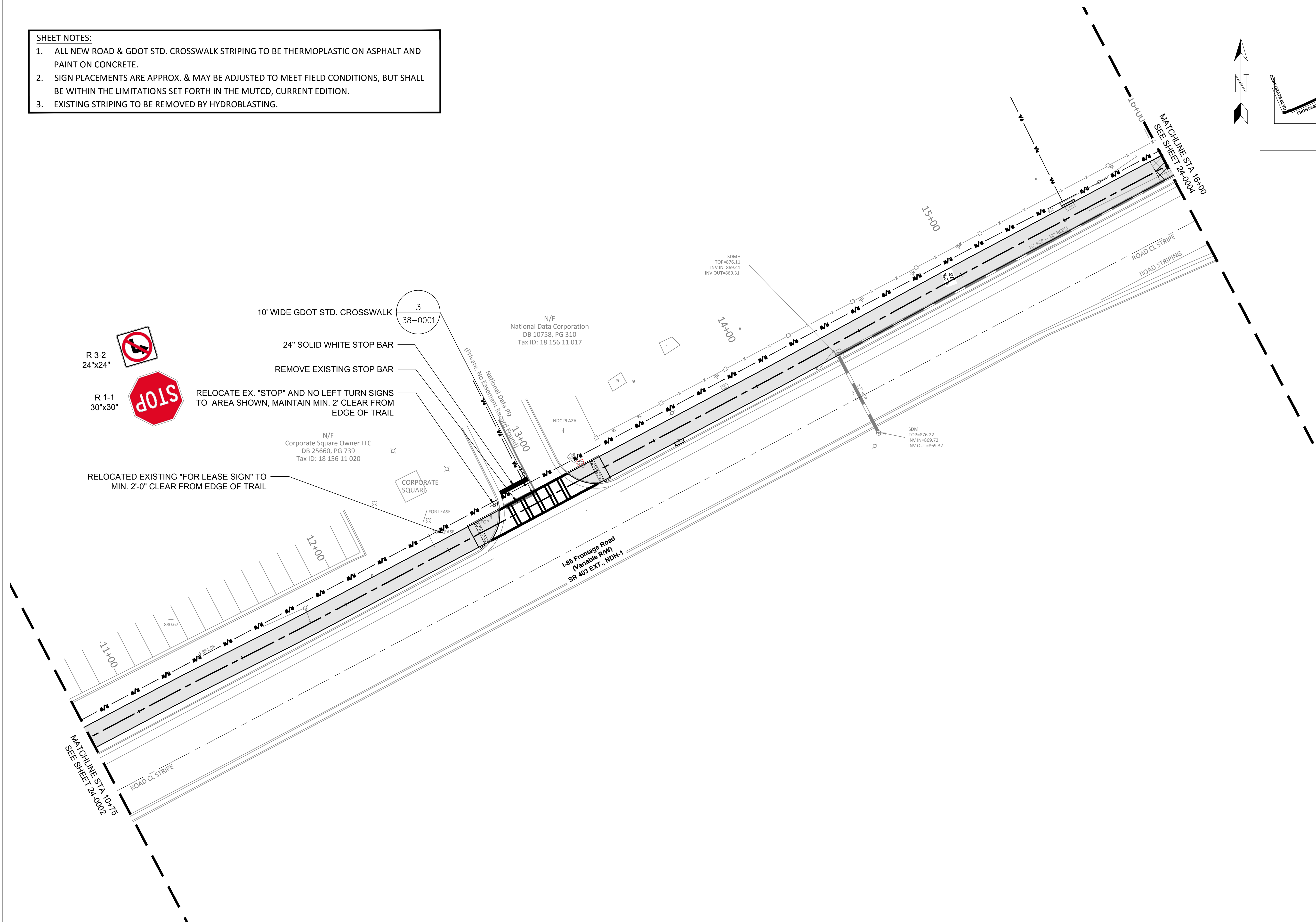
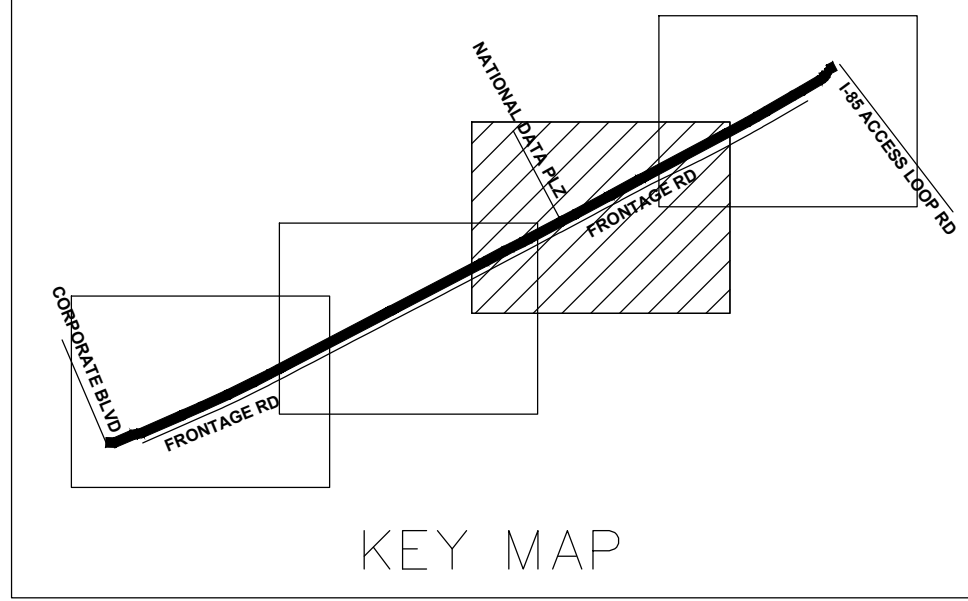
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

SIGNING AND MARKING PLAN
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
26-0002

- SHEET NOTES:**
1. ALL NEW ROAD & GDOT STD. CROSSWALK STRIPING TO BE THERMOPLASTIC ON ASPHALT AND PAINT ON CONCRETE.
 2. SIGN PLACEMENTS ARE APPROX. & MAY BE ADJUSTED TO MEET FIELD CONDITIONS, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD, CURRENT EDITION.
 3. EXISTING STRIPING TO BE REMOVED BY HYDROBLASTING.



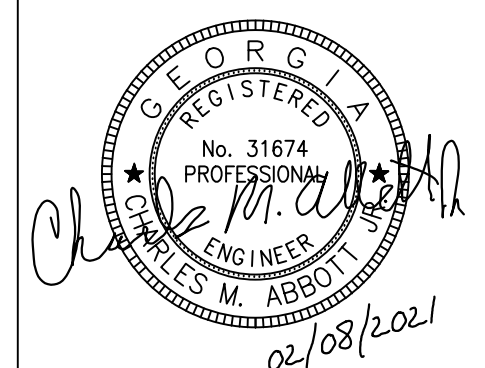
10' WIDE GDOT STD. CROSSWALK
 24" SOLID WHITE STOP BAR
 REMOVE EXISTING STOP BAR
 RELOCATE EX. "STOP" AND NO LEFT TURN SIGNS TO AREA SHOWN, MAINTAIN MIN. 2' CLEAR FROM EDGE OF TRAIL
 RELOCATED EXISTING "FOR LEASE SIGN" TO MIN. 2'-0" CLEAR FROM EDGE OF TRAIL

38-0001

N/F National Data Corporation
 DB 10758, PG 310
 Tax ID: 18 156 11 017

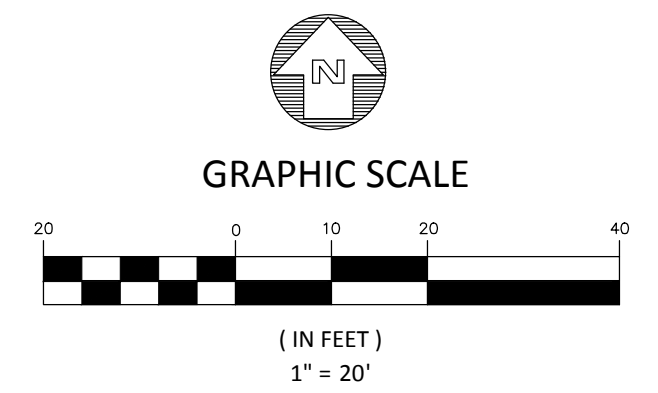
N/F Corporate Square Owner LLC
 DB 25660, PG 739
 Tax ID: 18 156 11 020

I-85 Frontage Road
 (Variable R/W)
 SR 403 EXT., NDA-1



PLANS PREPARED BY:
KAIZEN COLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521
 CHARLES M. ABBOTT JR., P.E.
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 GSWCC # 0000041686 EXPIRES: 04/13/2022
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CITY OF BROOKHAVEN
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
SIGNING & MARKING PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No.
26-0003

- SHEET NOTES:**
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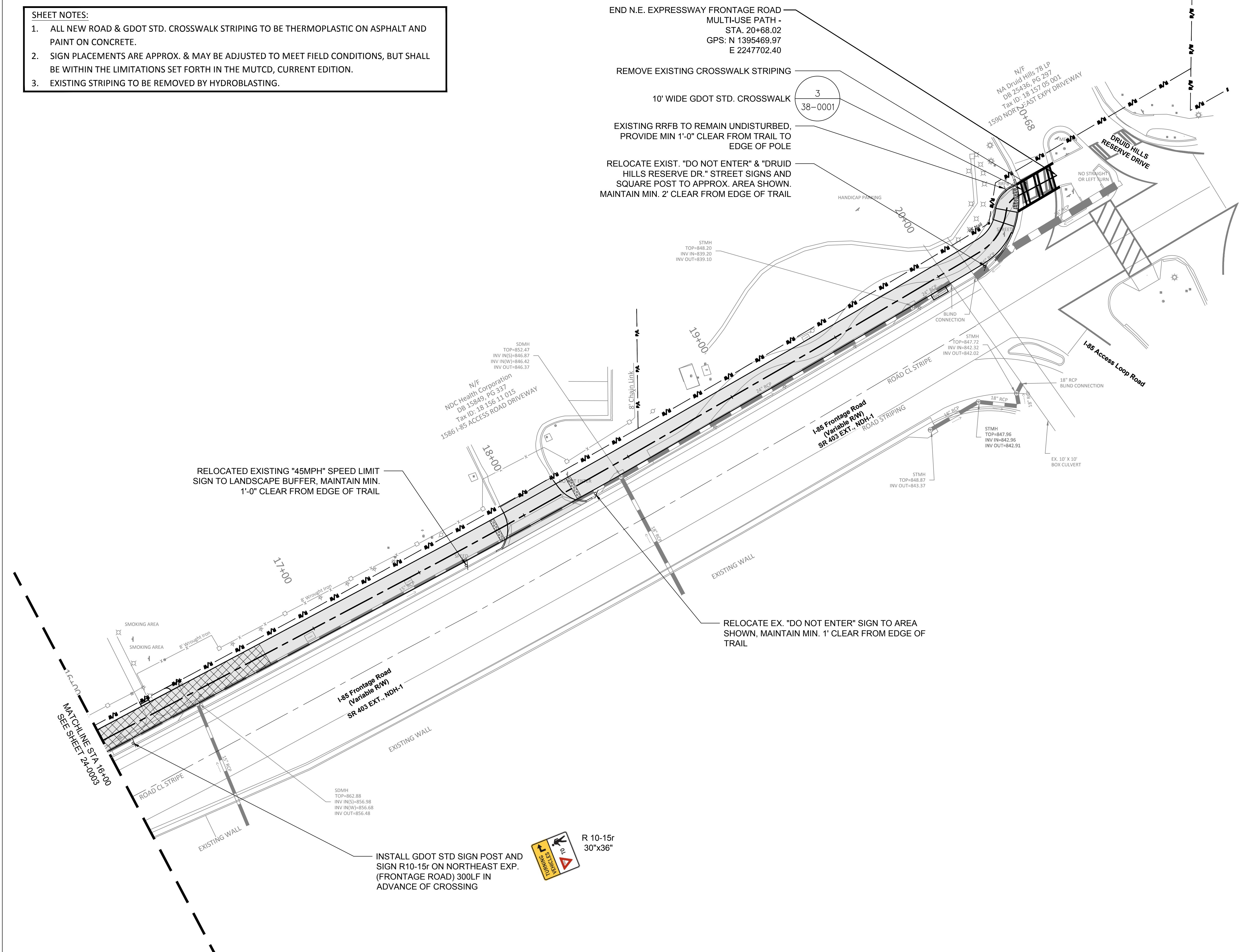
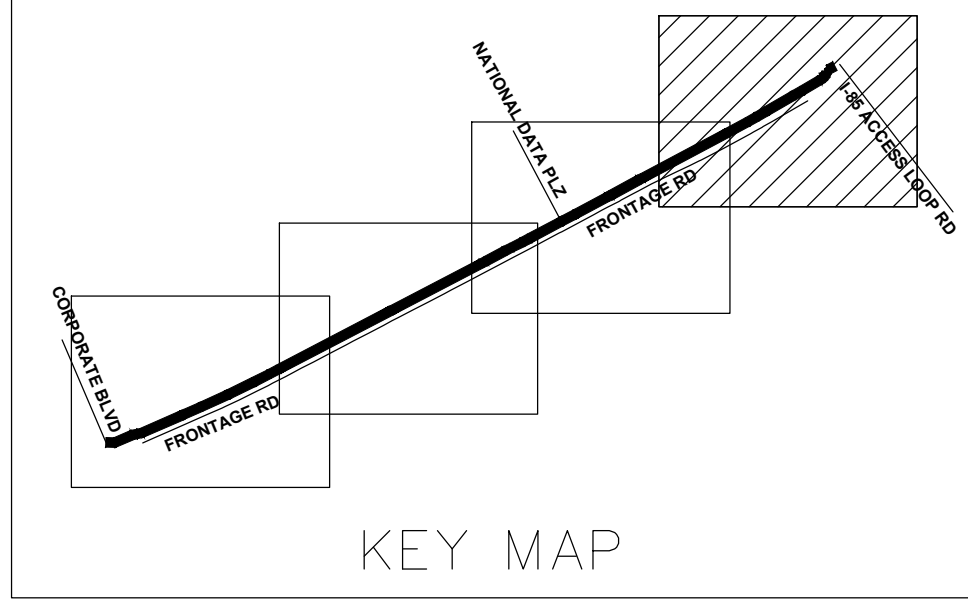
END N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH -
STA. 20+68.02
GPS: N 1395469.97
E 2247702.40

REMOVE EXISTING CROSSWALK STRIPING

10' WIDE GDOT STD. CROSSWALK

EXISTING RRFB TO REMAIN UNDISTURBED,
PROVIDE MIN 1'-0" CLEAR FROM TRAIL TO
EDGE OF POLE

RELOCATE EXIST. "DO NOT ENTER" & "DRUID
HILLS RESERVE DR." STREET SIGNS AND
SQUARE POST TO APPROX. AREA SHOWN.
MAINTAIN MIN. 2' CLEAR FROM EDGE OF TRAIL

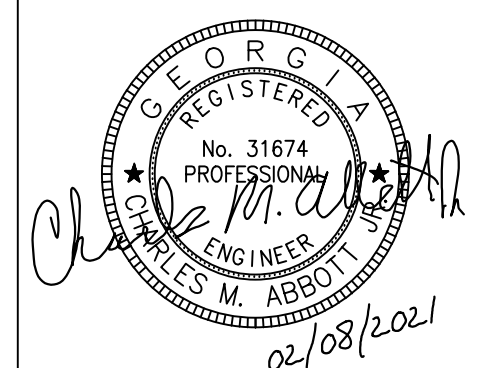


RELOCATED EXISTING "45MPH" SPEED LIMIT
SIGN TO LANDSCAPE BUFFER, MAINTAIN MIN.
1'-0" CLEAR FROM EDGE OF TRAIL

RELOCATE EX. "DO NOT ENTER" SIGN TO AREA
SHOWN, MAINTAIN MIN. 1' CLEAR FROM EDGE OF
TRAIL

INSTALL GDOT STD SIGN POST AND
SIGN R10-15r ON NORTHEAST EXP.
(FRONTAGE ROAD) 300LF IN
ADVANCE OF CROSSING

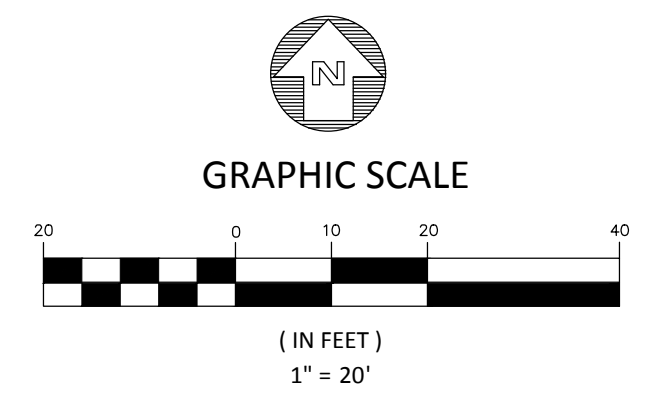
R 10-15r
30"x36"



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521

CHARLES M. ABBOTT JR., P.E.
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CITY OF BROOKHAVEN
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

SIGNING & MARKING PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
26-0004

GENERAL PLANTING NOTES

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASES.
- ALL PLANTS MUST BE CONTAINER-GROWN, BALLED & BURLAPPED (B&B), OR OTHERWISE AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL-HEADED & MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT & THE OWNER BEFORE, DURING & AFTER INSTALLATION UNTIL THE DATE OF FINAL ACCEPTANCE.
- 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.
- 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.
- 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.
- 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 PRECEDENCE 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.
- 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.
- 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.
- 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).
- THE LANDSCAPE CONTRACTOR AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
- 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.
- 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.
- 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 OVERSEEDDED 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.
- ALL BERMS ARE TO BE CONSTRUCTED OF CLEAN, FRIABLE, WELL DRAINED, TOPSOIL.
- 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.
- 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.
- ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RE-SET TO FINAL GRADE AND VEGETATED PER CONSTRUCTION PLANS.
- 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.
- 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.
- MINIMUM (9) SQ. FT. PLANTING AREA PROVIDED FOR EACH TREE.
- SEEDING RATE FOR BERMUDA SEED ON DISTURBED AREAS IS 1.5 LBS PER 1000 SQUARE FEET.
- 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 CONTRACTOR 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	SPACING	REMARKS
SHRUBS & GROUNDCOVERS						
Csg	12	Camellia Sasanqua 'Green 99-006'	October Magic Bride Camellia	5 gal.	As shown	Full, vigorous.
Pvd	24	Panicum Virgatum 'Dallas Blues'	Dallas Blues Switch Grass	5 gal.	As shown	Full, vigorous.
Toc	60	Thuja occidentalis 'Congabe'	Dwarf Arborvitae 'Fire Chief'	3 gal.	As shown	Full, vigorous.
SOD	9350 sf.	Sod *see note				Weed free sod as indicated & seed all other disturbed areas

Note: Contractor to coordinate with City of Brookhaven on sod variety prior to installation

GDOT TREE REPLACEMENT NOTES PER POLICY 6755-9:

8.2 - REQUIREMENTS

- MITIGATION IS NOT REQUIRED FOR:
- REMOVAL OF INVASIVE PLANT SPECIES
 - VINES, SHRUBS, & COLONIZING SEEDLING TREES REMOVED WITHIN (2) FEET OF LIMITED ACCESS FENCE
 - TREES REMOVED FROM THE CLEAR ZONE
 - DRIVEWAY CONSTRUCTION THAT DOES NOT RESULT IN REMOVAL OF ANY TREES (4) INCHES IN DIAMETER OR GREATER

8.3 - RESTRICTIONS

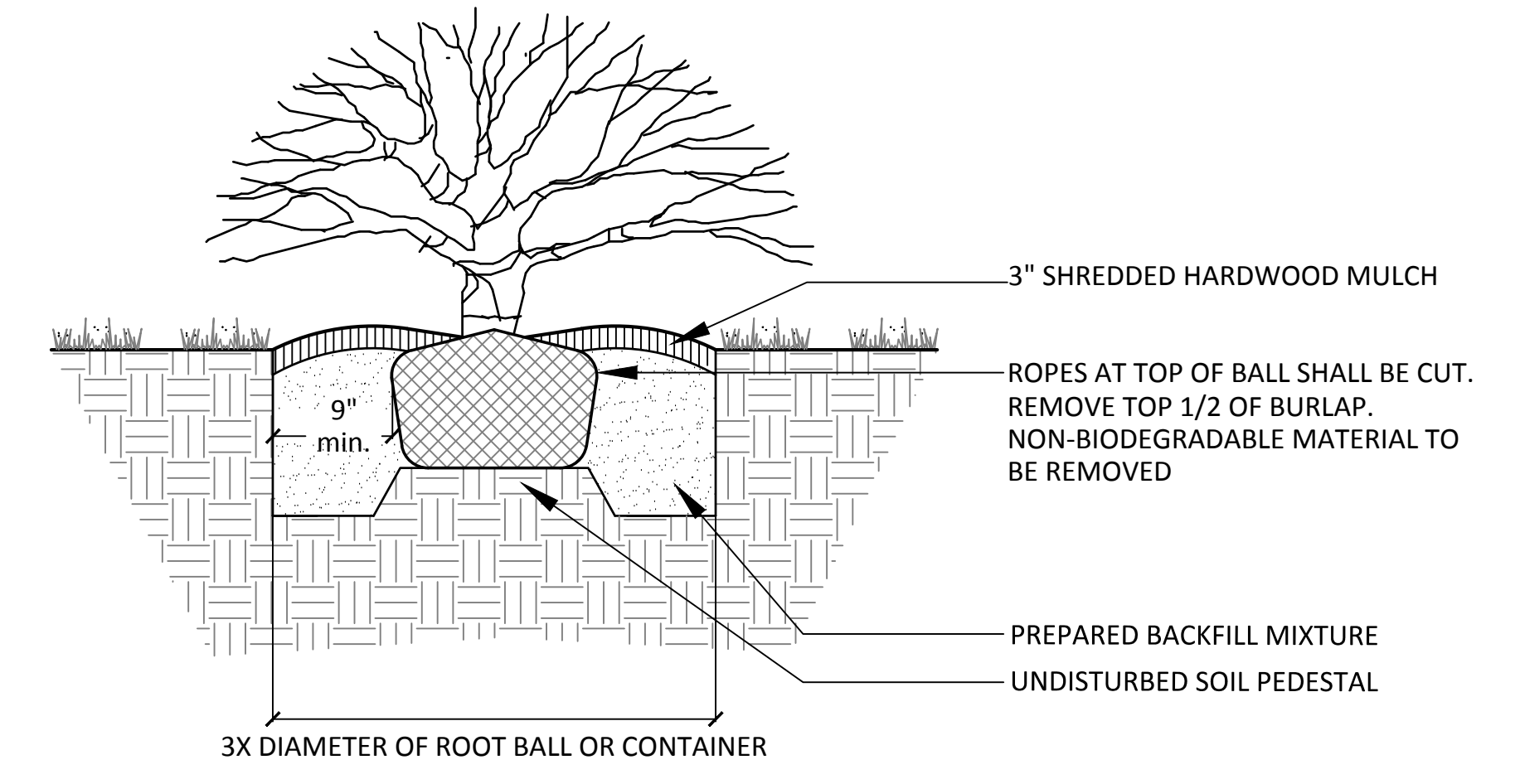
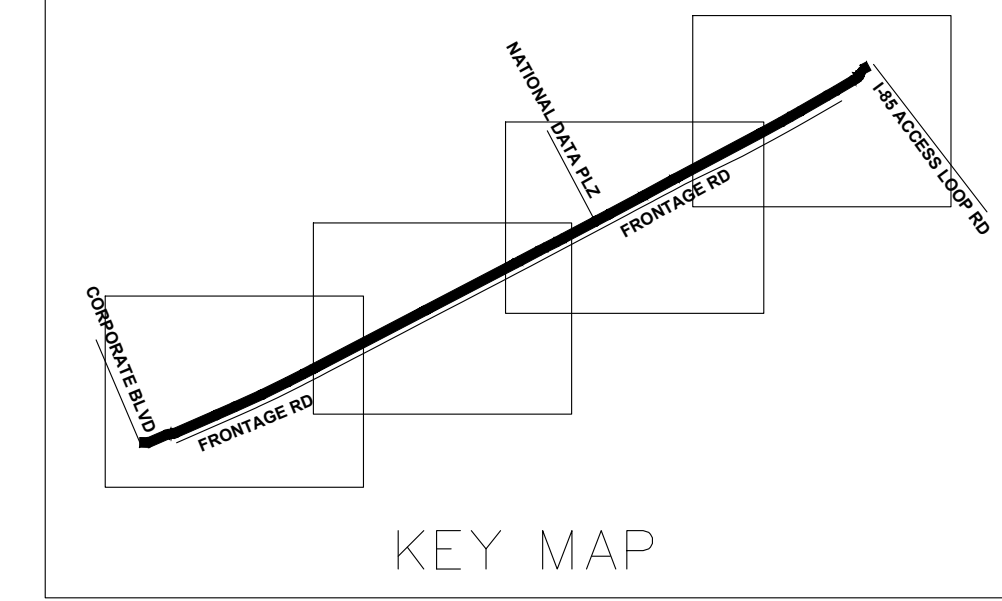
NO TREE REMOVAL, PRUNING, OR GROUND DISTURBANCE SHALL TAKE PLACE WITHIN ANY STREAM BUFFER

8.5 - REPLACEMENT PLANTING REQUIREMENTS FOR MITIGATION

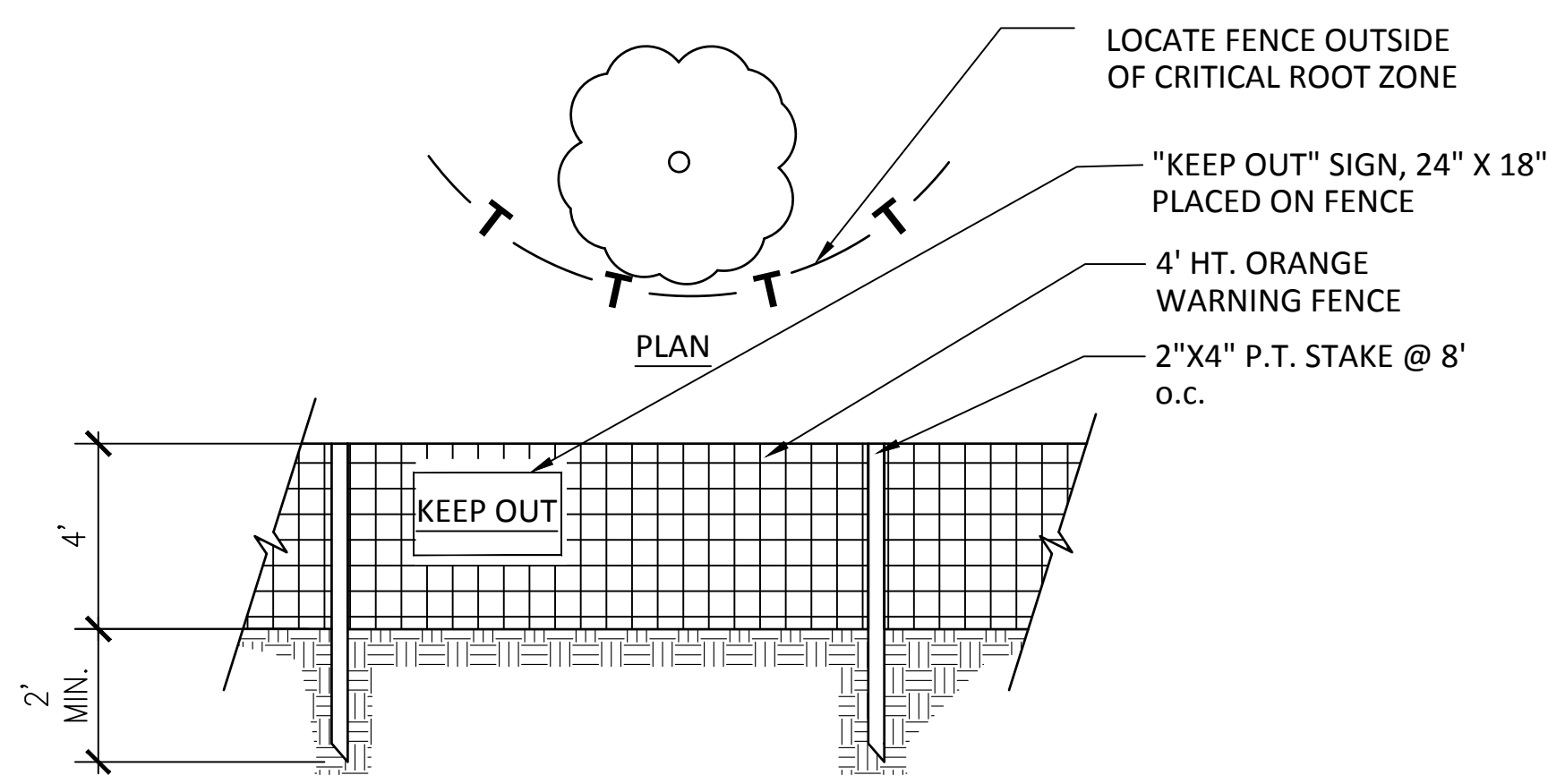
- WHEN LANDSCAPE ENHANCEMENT REPLACEMENT PLANTS ARE REQUIRED:
- PROVIDE A LANDSCAPE DESIGN PROPOSAL FOR REPLACEMENT PLANTS AT A RATIO OF ONE-HALF (1/2) OF THE TOTAL CALIPER INCHES OF TREES REMOVED AND ONE-FOURTH (1/4) OF THE TOTAL SQUARE FEET OF EXISTING NATIVE UNDERSTORY VEGETATION REMOVED.
 - THIRTY PERCENT (30%) OF THE REPLACEMENT SHRUBS AND SEVENTY-FIVE PERCENT (75%) OF REPLACEMENT TREES SHALL BE NATIVE SPECIES OR CULTIVARS OF NATIVE SPECIES.
 - SEVENTY-FIVE PERCENT (75%) OF ALL PROPOSED TREES SHALL BE LARGE CANOPY, HARDWOOD SHADE TREES.
 - GRASS ALL DISTURBED AREAS NOT PLANTED IN TREES AND SHRUBS ACCORDING TO GDOT SPECIFICATIONS. IF THE DEPARTMENT DETERMINES THAT LANDSCAPE MITIGATION CANNOT BE REASONABLY ACCOMMODATED, THEN THE REMAINDER OF THE MITIGATION SHALL BE FEES ACCORDING TO SECTION 16-2 EXCESS CLEARING FEES.

16.2 - EXCESS CLEARING FEES

A CONTRIBUTORY VALUE FEE IS ASSESSED TO COMPENSATE FOR ANY REMAINING REPLACEMENT PLANTS TO COMPLETE THE MITIGATION FOR ADDITIONAL GRADING OR CLEARING ACTIVITIES BEYOND WHAT IS NECESSARY FOR DRIVEWAY ACCESS CONSTRUCTION WHERE THE DEPARTMENT DETERMINES THAT THE REQUIRED LANDSCAPE REPLACEMENT PLANTS CANNOT REASONABLY BE INSTALLED TO COMPENSATE FOR THE TOTAL AMOUNT OF LOST VEGETATION. THE CORRESPONDING CONTRIBUTORY VALUE FEES IN THIS CASE CAN BE CALCULATED BY MULTIPLYING THE REMAINING CALIPER INCHES THAT CANNOT BE REPLACED ON THE SITE BY SEVEN DOLLARS (\$7.00).

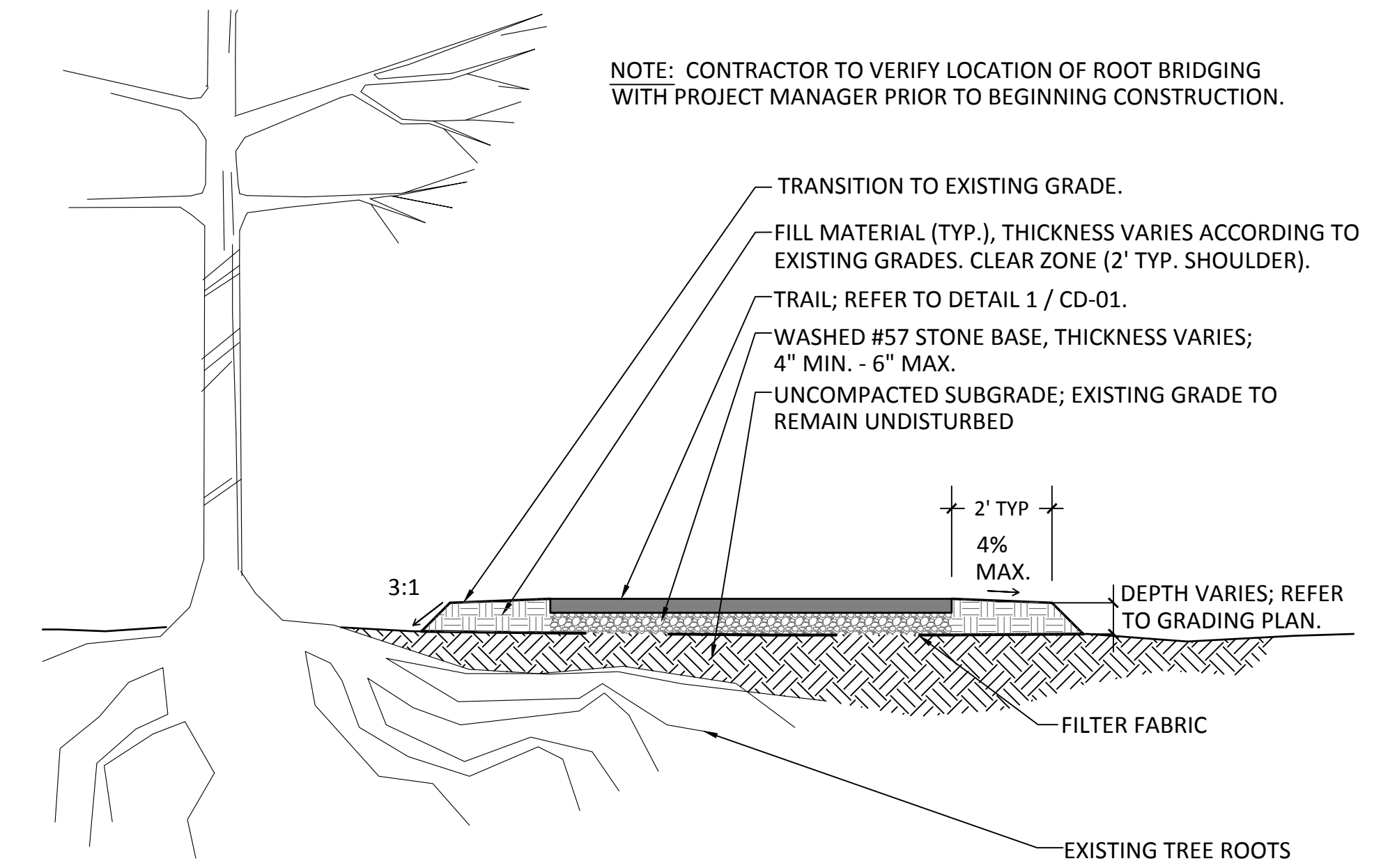


1 SHRUB PLANTING DETAIL
SCALE: 1" = 1'-0"

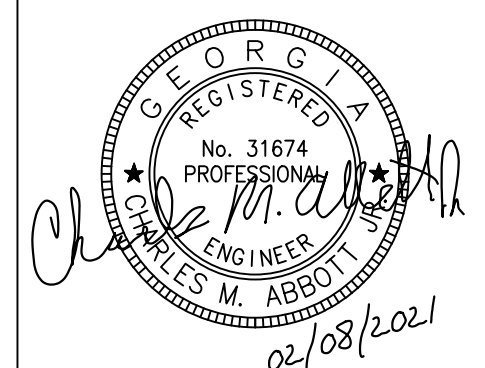


NOTE:
PROVIDE FENCE AS SHOWN ON PLAN ALONG LIMITS OF CONSTRUCTION AT EDGE OF IMPACT TO CRITICAL ROOT ZONE. PROVIDE AT LEAST ONE FOOT OF DISTANCE FROM TREE TO FENCE FOR EACH INCH OF TREE DBH, WHERE DBH REFERS TO THE TREE DIAMETER MEASURED AT 4.5' ABOVE THE GROUND. STAKE ONE LAYER OF HAY BALES IN FRONT OF FENCE (HAY BALE NOT SHOWN ON DETAIL)

TREE PROTECTION FENCE DETAIL
NOT TO SCALE



2 ROOT BRIDGING
SCALE: 1/4" = 1'-0"



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521
CHARLES M. ABBOTT JR, P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
T: 404-239-2521

CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
DEPUTY DIRECTOR
4362 PEACHTREE RD., BROOKHAVEN, GA 30319
E: DON.SHERRILL@BROOKHAVENGA.GOV
O: 404-991-4763 C: 404-637-0662

REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
LANDSCAPE NOTES, DETAILS & PLANT SCHEDULE
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No. 29-0000

SHEET NOTES:

- CONTRACTOR TO SOD ALL EXPOSED OR BARREN LANDSCAPE AREAS BETWEEN EDGE OF CURB AND R/W
- TREE PROTECTION TO INCLUDE MIN. 48" ORANGE TREE PROTECTION FENCE, STAKED AT MIN. 8" O.C., WITH MIN. 1 LAYER OF HALE BALES STAKED IN FRONT OF FENCE.
- CONTRACTOR TO PLACE SIGNAGE ON TREE PROTECTION FENCE STATING "KEEP OUT"
- ALL TREES SLATED AS "SAVE" WITH CRITICAL ROOT ZONE (CRZ) IMPACT GREAT THAN OR EQUAL TO 20%, THAT ARE EASILY ACCESSIBLE, TO BE FERTILIZED WITH BIO-STIMULANT AND RECEIVE MYCORRHIZAE ROOT TREATMENT WITH MYCORRHIZAE FUNGI PRIOR TO ANY CONSTRUCTION ACTIVITY, APPLICATION RATE AND FREQUENCY OF REAPPLICATION TO BE PER MANUFACTURER'S RECOMMENDATION. IN ADDITION, CONTRACTOR TO CROWN CLEAN AND STRUCTURALLY PRUNE. (TO BE CONTRACTED AND COORDINATED BY CITY)

GDOT TREE REPLACEMENT CALCULATIONS:


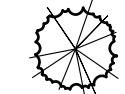


OF INCHES REMOVED FROM GDOT PROPERTY: 77
 # OF INCHES REMOVED $\times \frac{1}{2}$ = TOTAL # OF INCHES TO BE REPLACED: $77 \times \frac{1}{2} = 38.5$
 # OF INCHES REPLACED ON GDOT PROPERTY: 0

DEFICIT OF 38 INCHES

OF INCHES $\times \$7 = 38 \times \$7 = \$266$ TOTAL MITIGATION FEE

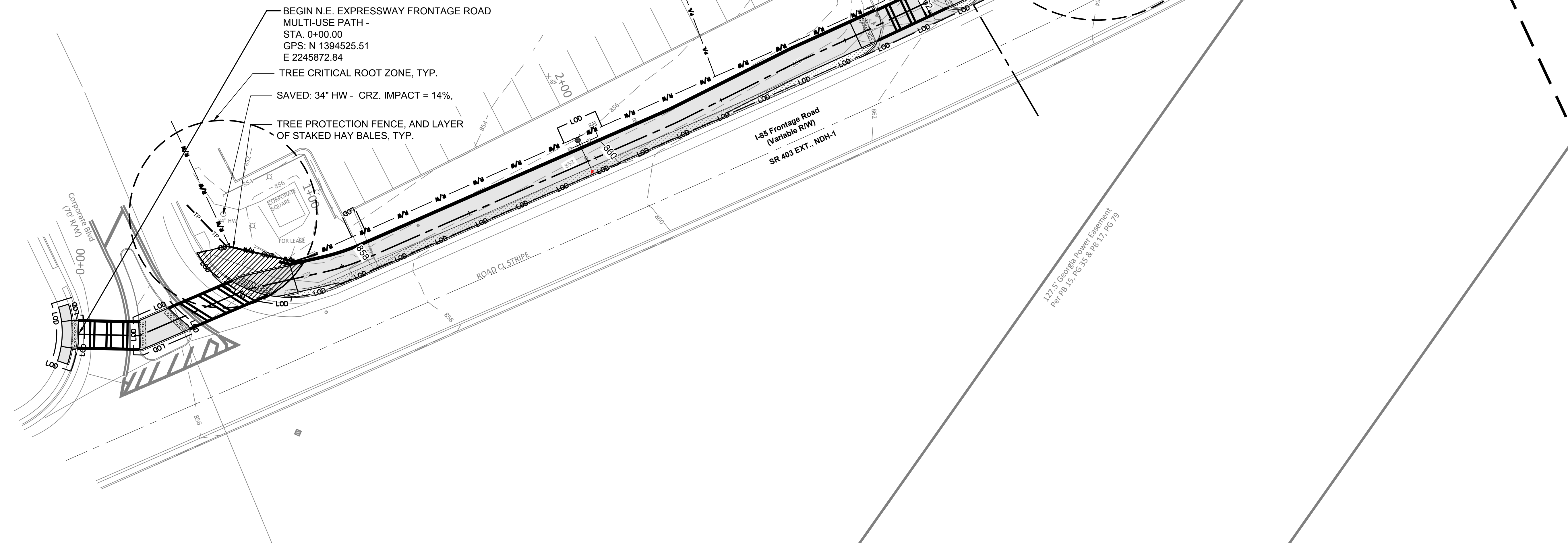
PLANT LEGEND

SHRUBS & GROUND COVERS:

-  CAMELLIA SASANQUA 'GREEN 99-006' / OCTOBER MAGIC BRIDE CAMELLIA (Csg)
-  PANICUM VIRGATUM 'DALLAS BLUES' / DALLAS BLUES SWITCH GRASS (Pvd)
-  THUJA OCCIDENTALIS 'CONGABE' / DWARF ARBORVITAE 'FIRE CHIEF' (Toc)
-  SOD

EXISTING TREE LEGEND

Tree #	Species	DBH	Status	Tree #	Species	DBH	Status
1	ELM	34	SAVE	21	SWEETGUM	18	SAVE
2	OAK	46	CITY ARBORIST TO VERIFY	22	PEAR	24	SAVE
3	OAK	31	REMOVED	23	PEAR	24	SAVE
4	MAGNOLIA	14	SAVE	24	PEAR	24	SAVE
5	PINE	14	SAVE	25	OAK	34	SAVE
6	MAGNOLIA	17	SAVE	26	ELM	12	SAVE
7	PINE	15	SAVE	27	ELM	13	SAVE
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12	MAGNOLIA	14	SAVE	32	ELM	18	SAVE
13	MAGNOLIA	26	SAVE	33	PINE	20	SAVE
14	CREPE MYRTLE	7	SAVE	34	CYPRESS	15	SAVE
15	CREPE MYRTLE	7	SAVE	35	CYPRESS	15	SAVE
16	MAGNOLIA	26	SAVE	36	CREPE MYRTLE	7	SAVE
17	MAGNOLIA	24	SAVE	37	CYPRESS	12	SAVE
18	MAGNOLIA	28	SAVE	38	CYPRESS	10	SAVE
19	MAPLE	26	SAVE	39	CYPRESS	12	SAVE
20	MAPLE	20	SAVE				



SAVED: 15" PINE - CRZ. IMPACT = 3%, TREE PROTECTION IS PROVIDE BY EXIST. WALL

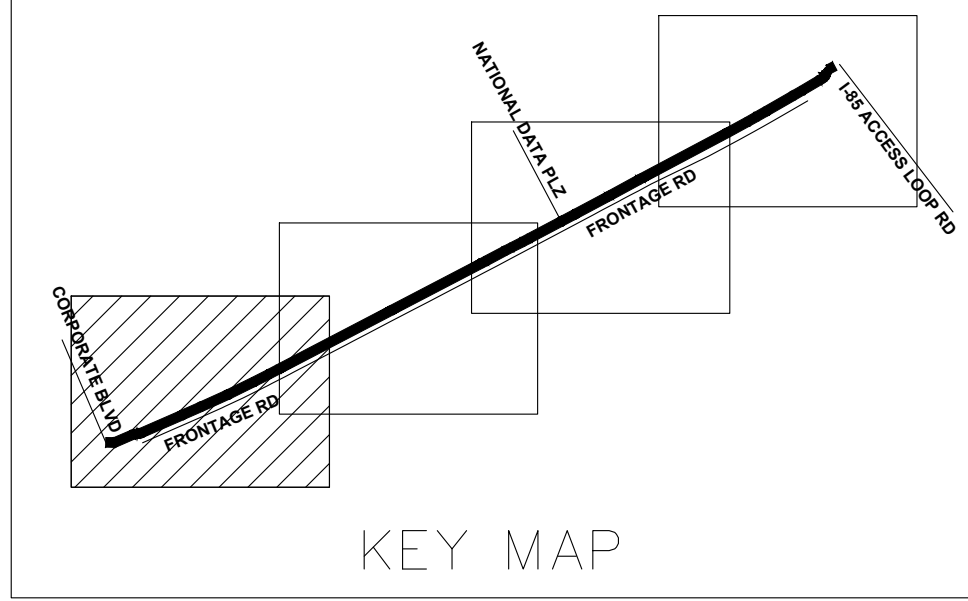
SAVED: 17" MAG. - CRZ. IMPACT = 12%, TREE PROTECTION IS PROVIDE BY EXIST. WALL

REMOVE OAK, 31" DBH, MARKED "X".

ROOT BRIDGING, HATCHED AREA, TYP.

46" WATER OAK IS TO BE SAVED. ROOT BRIDGING IS REQUIRED, APPLY BIO-STIMULANT, MYCORRHIZA TREATMENT, ETC. AS DESCRIBE IN SHEET NOTE 4
 CRZ IMPACT WITH ROOT BRIDGE = 6%
 CRZ IMPACT WITHOUT ROOT BRIDGING = 49%
 SRP IMPACT WITHOUT ROOT BRIDGING = 49%
 46" WATER OAK STRUCTURAL ROOT PLATE (SRP) SOD, TYP.

TREE PROTECTION FENCE W/ ROW OF STAKED HAY, ONLY REQUIRE IF TREE IS TO BE SAVED



BEGIN N.E. EXPRESSWAY FRONTAGE ROAD MULTI-USE PATH - STA. 0+00.00
 GPS: N 1394525.51
 E 2245872.84

TREE CRITICAL ROOT ZONE, TYP.

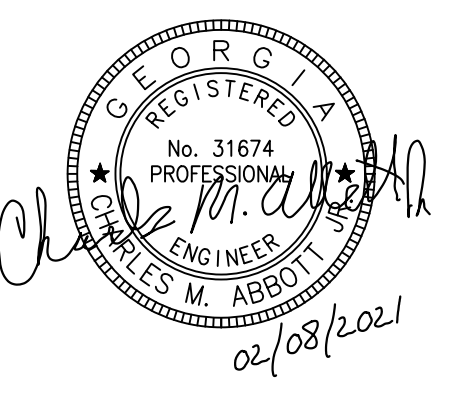
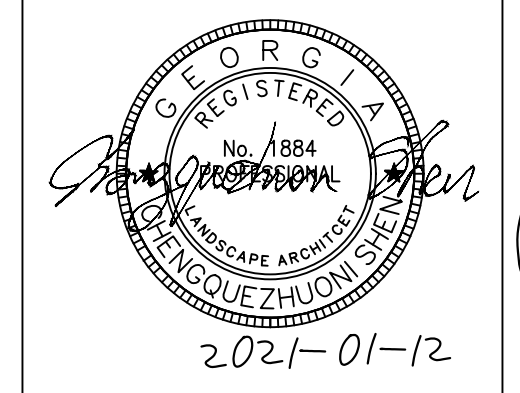
SAVED: 34" HW - CRZ. IMPACT = 14%,

TREE PROTECTION FENCE, AND LAYER OF STAKED HAY BALES, TYP.

N/F
 Corporate Square Owner LLC
 DB 25660, PG 754
 Tax ID: 18 156 11 011

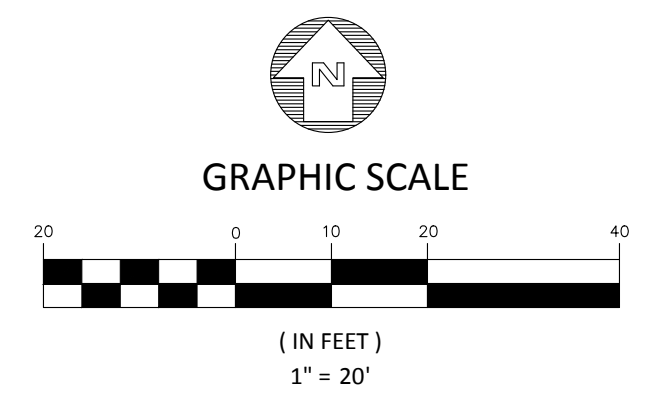
I-85 Frontage Road
 (Variable RW)
 SR 403 EXT., NDH-1

177.5 Georgia Power Easement
 Part Pg. 15, Pg. 35 & Pg. 17, Pg. 79



PLANS PREPARED BY:
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
LANDSCAPE AND TREE PROTECTION PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH
 DRAWING No. 29-0001

SHEET NOTES:

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GDOT TREE REPLACEMENT CALCULATIONS:

OF INCHES REMOVED FROM GDOT PROPERTY: 77
 # OF INCHES REMOVED x 1/2 = TOTAL # OF INCHES TO BE REPLACED: 77 x 1/2 = 38.5
 # OF INCHES REPLACED ON GDOT PROPERTY: 0

DEFICIT OF 38 INCHES

OF INCHES x \$7 = 38 x \$7 = \$266 TOTAL MITIGATION FEE

PLANT LEGEND

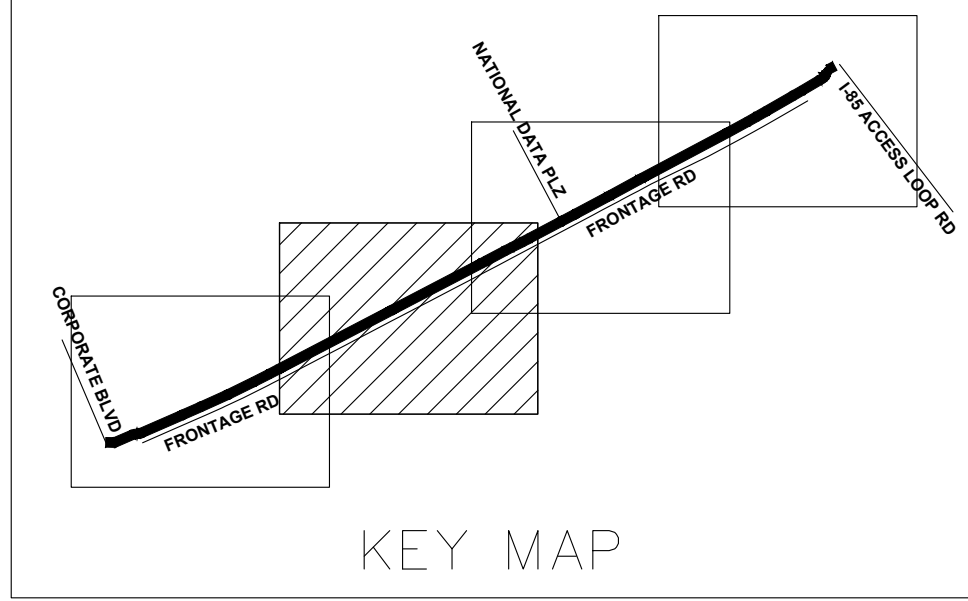
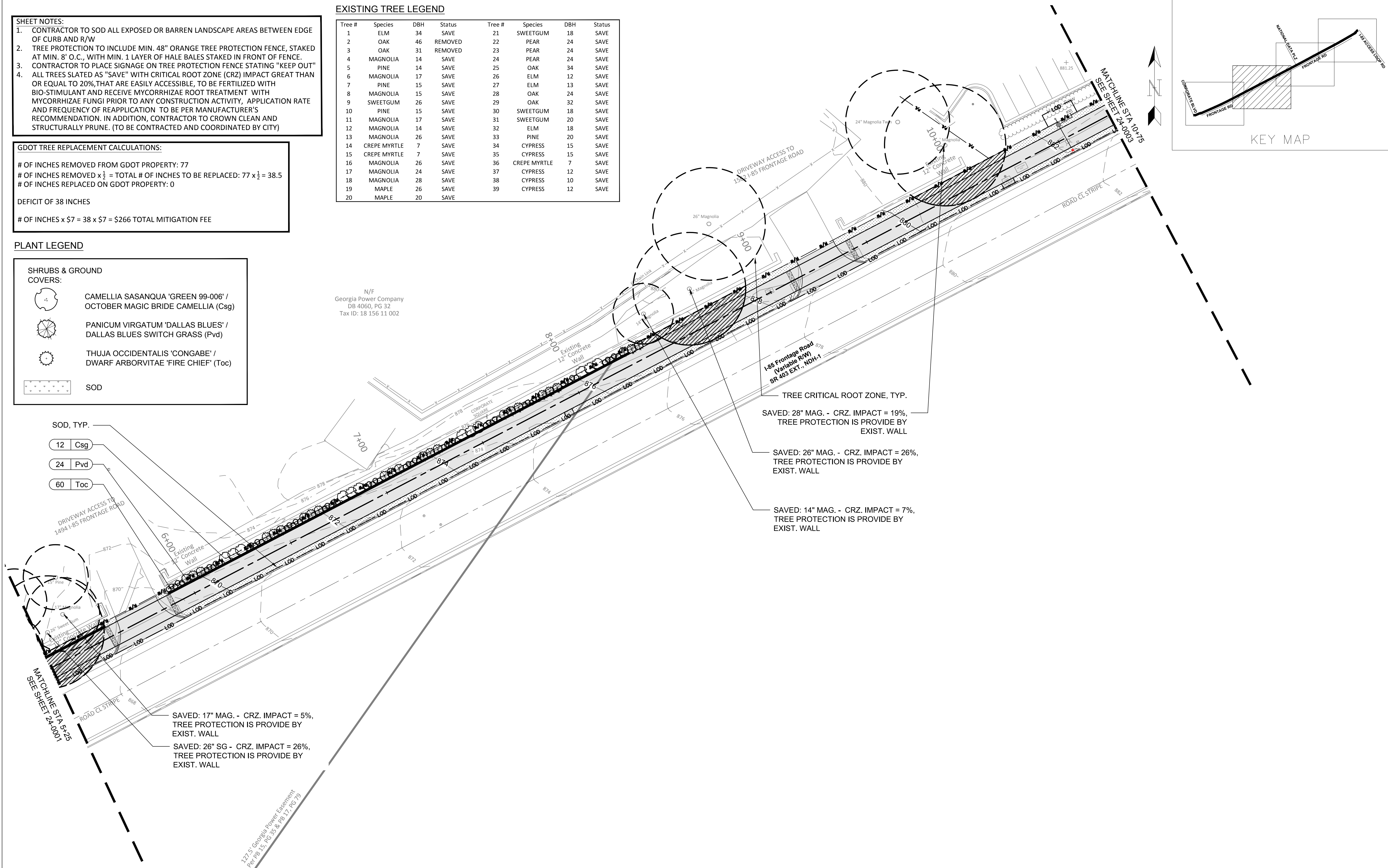
SHRUBS & GROUND COVERS:

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- PANICUM VIRGATUM 'DALLAS BLUES' / DALLAS BLUES SWITCH GRASS (Pvd)
- THUJA OCCIDENTALIS 'CONGABE' / DWARF ARBORVITAE 'FIRE CHIEF' (Toc)
- SOD

EXISTING TREE LEGEND

Tree #	Species	DBH	Status	Tree #	Species	DBH	Status
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2	OAK	46	REMOVED	22	PEAR	24	SAVE
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5	PINE	14	SAVE	25	OAK	34	SAVE
6	MAGNOLIA	17	SAVE	26	ELM	12	SAVE
7	PINE	15	SAVE	27	ELM	13	SAVE
8	MAGNOLIA	15	SAVE	28	OAK	24	SAVE
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15	CREPE MYRTLE	7	SAVE	35	CYPRESS	15	SAVE
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18	MAGNOLIA	28	SAVE	38	CYPRESS	10	SAVE
19	MAPLE	26	SAVE	39	CYPRESS	12	SAVE
20	MAPLE	20	SAVE				

N/F
 Georgia Power Company
 DB 4060, PG 32
 Tax ID: 18 156 11 002



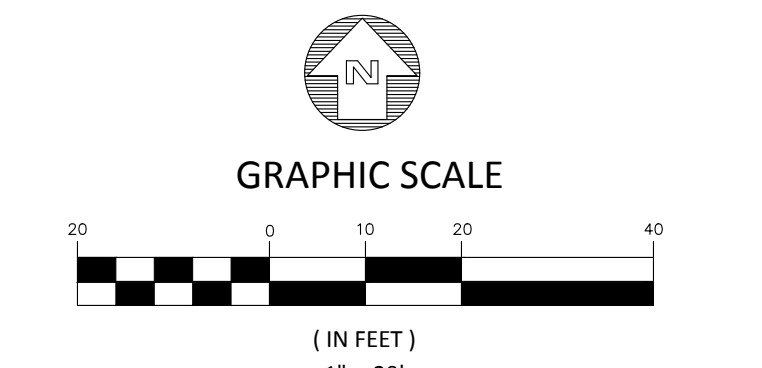
- SOD, TYP.
- 12 Csg
- 24 Pvd
- 60 Toc



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521

CHARLES M. ABBOTT JR., P.E.
 DESIGN ENGINEER LEVEL II CERTIFICATION
 GSWCC # 0000041686 EXPIRES: 04/13/2022
 CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

LANDSCAPE AND TREE PROTECTION PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
29-0002

SHEET NOTES:

- CONTRACTOR TO SOD ALL EXPOSED OR BARREN LANDSCAPE AREAS BETWEEN EDGE OF CURB AND R/W
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GDOT TREE REPLACEMENT CALCULATIONS:

OF INCHES REMOVED FROM GDOT PROPERTY: 77
 # OF INCHES REMOVED x 1/3 = TOTAL # OF INCHES TO BE REPLACED: 77 x 1/3 = 38.5
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DEFICIT OF 38 INCHES

OF INCHES x \$7 = 38 x \$7 = \$266 TOTAL MITIGATION FEE

PLANT LEGEND

SHRUBS & GROUND COVERS:

- CAMELLIA SASANQUA 'GREEN 99-006' / OCTOBER MAGIC BRIDE CAMELLIA (Csg)
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- THUJA OCCIDENTALIS 'CONGABE' / DWARF ARBORVITAE 'FIRE CHIEF' (Toc)
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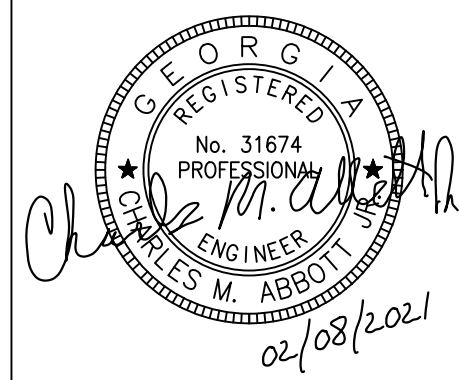
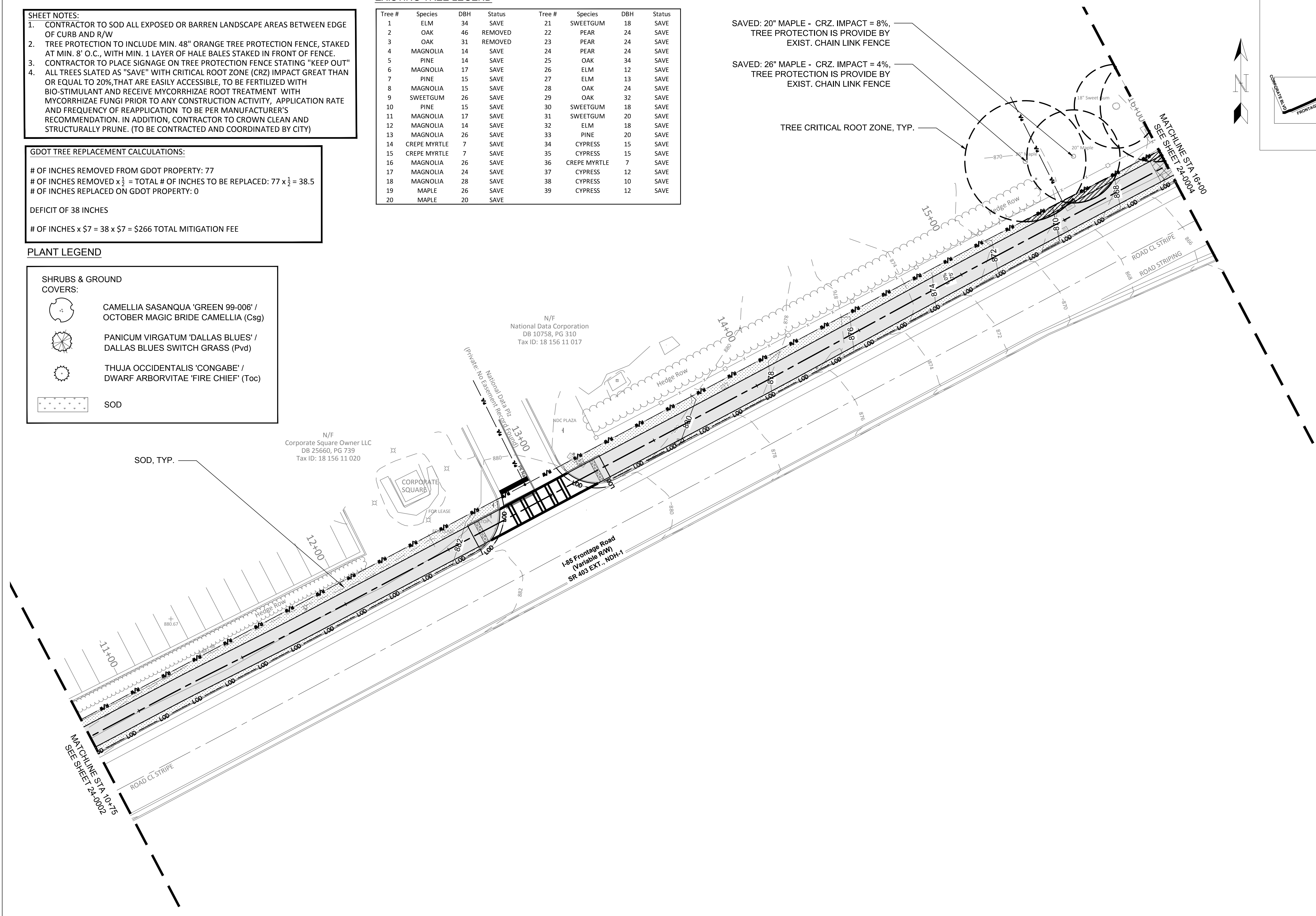
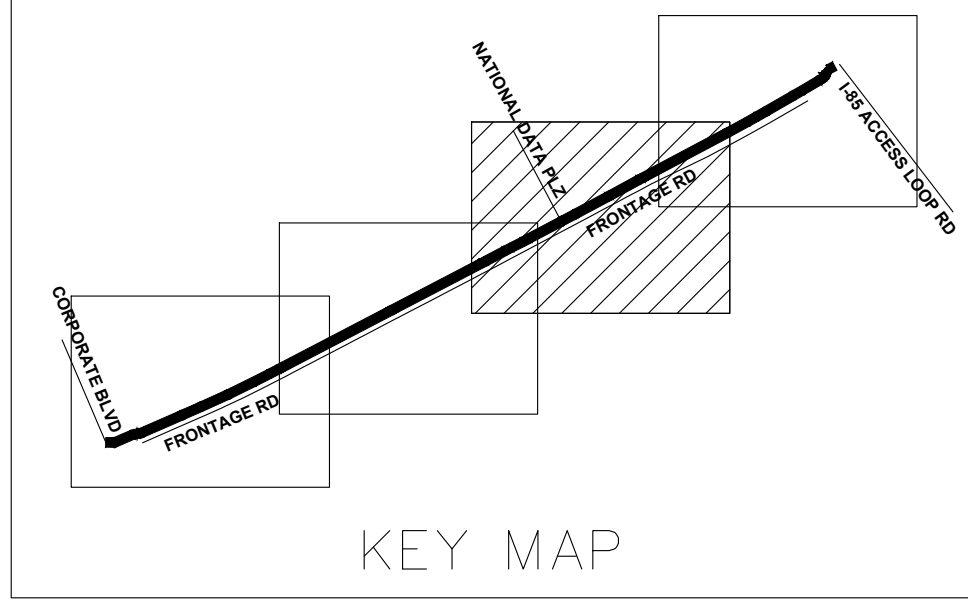
EXISTING TREE LEGEND

Tree #	Species	DBH	Status	Tree #	Species	DBH	Status
1	ELM	34	SAVE	21	SWEETGUM	18	SAVE
2	OAK	46	REMOVED	22	PEAR	24	SAVE
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17	MAGNOLIA	24	SAVE	37	CYPRESS	12	SAVE
18	MAGNOLIA	28	SAVE	38	CYPRESS	10	SAVE
19	MAPLE	26	SAVE	39	CYPRESS	12	SAVE
20	MAPLE	20	SAVE				

SAVED: 20" MAPLE - CRZ. IMPACT = 8%,
 TREE PROTECTION IS PROVIDED BY
 EXIST. CHAIN LINK FENCE

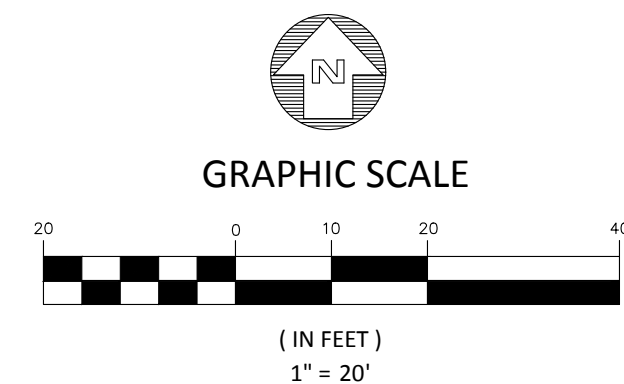
SAVED: 26" MAPLE - CRZ. IMPACT = 4%,
 TREE PROTECTION IS PROVIDED BY
 EXIST. CHAIN LINK FENCE

TREE CRITICAL ROOT ZONE, TYP.



PLANS PREPARED BY:
KAIZEN COLLABORATIVE
 2390 Main Street | Tucker, GA 30084 | 404.239.2521
 CHARLES M. ABBOTT JR, P.E.
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 GSWCC # 0000041686 EXPIRES: 04/13/2022
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
LANDSCAPE AND TREE PROTECTION PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
29-0003

SHEET NOTES:

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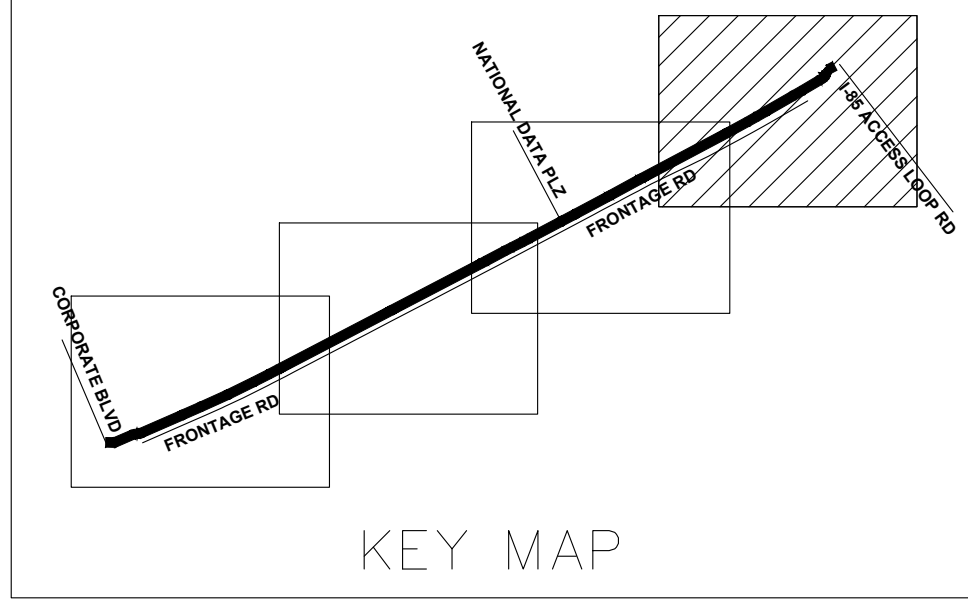
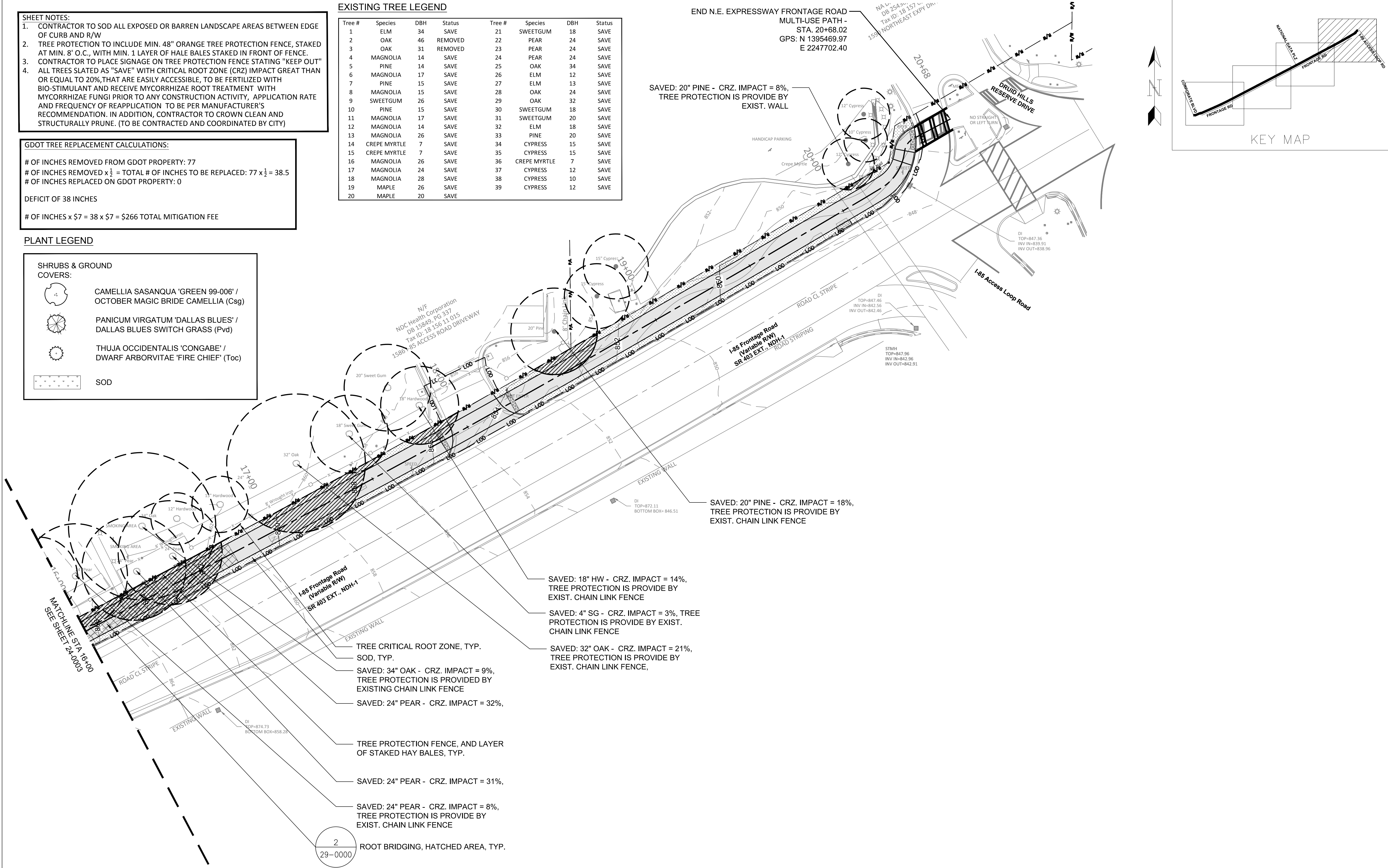
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OF INCHES x \$7 = 38 x \$7 = \$266 TOTAL MITIGATION FEE

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- SHRUBS & GROUND COVERS:**
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20	MAPLE	20	SAVE				



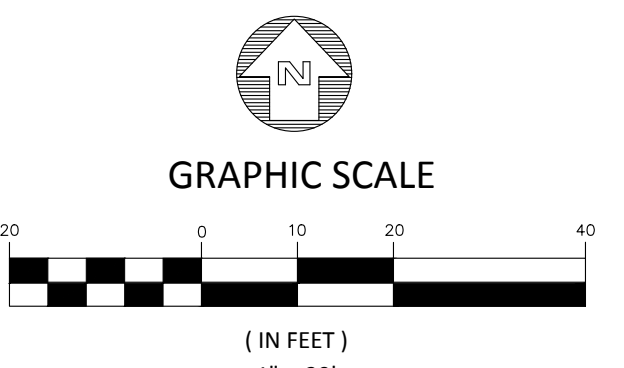
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
 No. 1884
 CHANGQUE ZHUONG
 2021-01-12

REGISTERED PROFESSIONAL ENGINEER
 No. 31674
 CHARLES M. ABBOTT
 02/08/2021

PLANS PREPARED BY:
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STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7

LANDSCAPE AND TREE PROTECTION PLAN
 N.E. EXPRESSWAY FRONTAGE ROAD
 MULTI-USE PATH

DRAWING No.
29-0004

GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH CIVIL AND LANDSCAPE ARCHITECT DRAWINGS, AND PROMPTLY NOTIFY THE ARCHITECT/ENGINEERS OF ANY DISCREPANCIES OR OMISSIONS.
- 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.
- DO NOT SCALE DRAWINGS. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWING. ANY MISSING DIMENSIONS WILL BE FURNISHED UPON REQUEST.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER FULLY COMPLETED. 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.
- 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.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES. DESIGN OF STRUCTURES IN ACCORDANCE WITH AASHTO LRFD 7TH EDITION (2014), AND THE ACI318-14 FOR DESIGN OF CONCRETE ELEMENTS.

FOUNDATION:

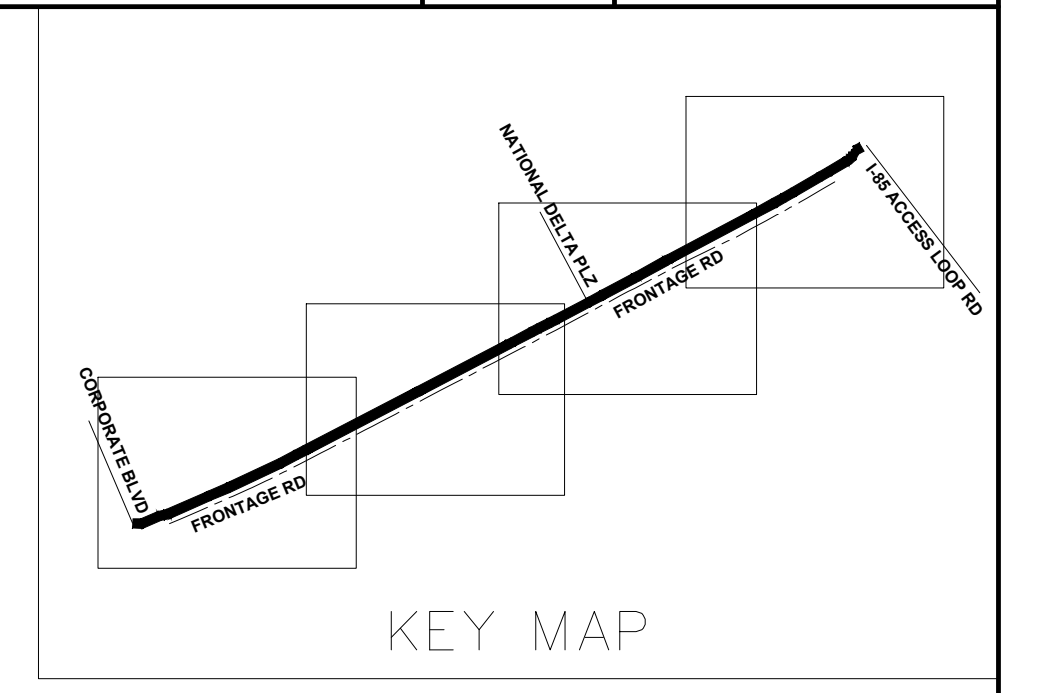
- FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. DESIGN SOIL BEARING PRESSURES ARE INDICATED ON THE SITE PLANS AND DETAILS. THESE VALUES SHALL BE FIELD VERIFIED AT EACH EXCAVATION PRIOR TO FOUNDATION CONSTRUCTION. NOTIFY STABILITY ENGINEERING IF FIELD CONDITIONS VARY BY MORE THAN 10% FROM DESIGN VALUES. ALL FOOTINGS ARE TO BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL.
- 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.
- 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.
- ALL WIRE MESH AND REBARS ARE TO BE PLACED ON SUPPORTS PER ACI STANDARDS PRIOR TO POURING CONCRETE.
- SEE LANDSCAPE ARCHITECT DRAWINGS FOR CONCRETE FINISHING REQUIREMENTS NO SPECIFIED HEREIN.
- ALL CONCRETE RETAINING WALLS SHALL BE CURED AT LEAST SEVEN DAYS PRIOR TO BACKFILLING IN ACCORDANCE WITH APPLICABLE CODES.

REINFORCING:

- 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.
 - DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, LATEST EDITION.
 - 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" SPLICES 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 1 1/2" MIN COVER AND 3" MIN CLEAR BETWEEN BARS FOR #7 THRU #11 BARS. SHORTER SPLICES MAY BE CALCULATED FOR SOME SPECIFIC CONDITIONS SUCH AS TIED BEAMS OR ADDITIONAL COVER. SPLICES MUST BE INCREASED 50% PER ACI 318-11 FOR EPOXY COATED REBAR, OR 30% FOR LIGHTWEIGHT CONCRETE.
- LAPS IN W.W.F. SHOULD BE ONE MESH PLUS TWO INCHES AT SPLICES.
 - ALL BAR HOOKS SHALL BE STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - SEE SECTION 7.7 OF ACI 318-11 FOR CONDITIONS NOT NOTED.
 - DESIGN OF STRUCTURAL CONCRETE ELEMENTS IS IN ACCORDANCE WITH ACI 318.

CONCRETE:

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", EXCEPT AS NOTIFIED BY THE REQUIREMENTS OF THESE STRUCTURAL DRAWINGS.
 - 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.
 - 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 3/4".
 - 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 C885.
 - 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.
 - 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 LAITANCE AND OTHER UNSOUND MATERIAL SHALL BE REMOVED BEFORE ADDITIONAL CONCRETE IS PLACED AGAINST HARDENED CONCRETE.
 - 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 | 1 1/2 |
- UNLESS NOTED OTHERWISE, PROVIDE VERTICAL CONTROL JOINTS IN RETAINING WALLS @ 20'-0" O.C. MAXIMUM & ALIGN W/ TRAIL SLAB CONTROL JOINTS.
 - COORDINATE CONCRETE FINISHES COATINGS WITH PROJECT MANAGER AND/OR OWNER.

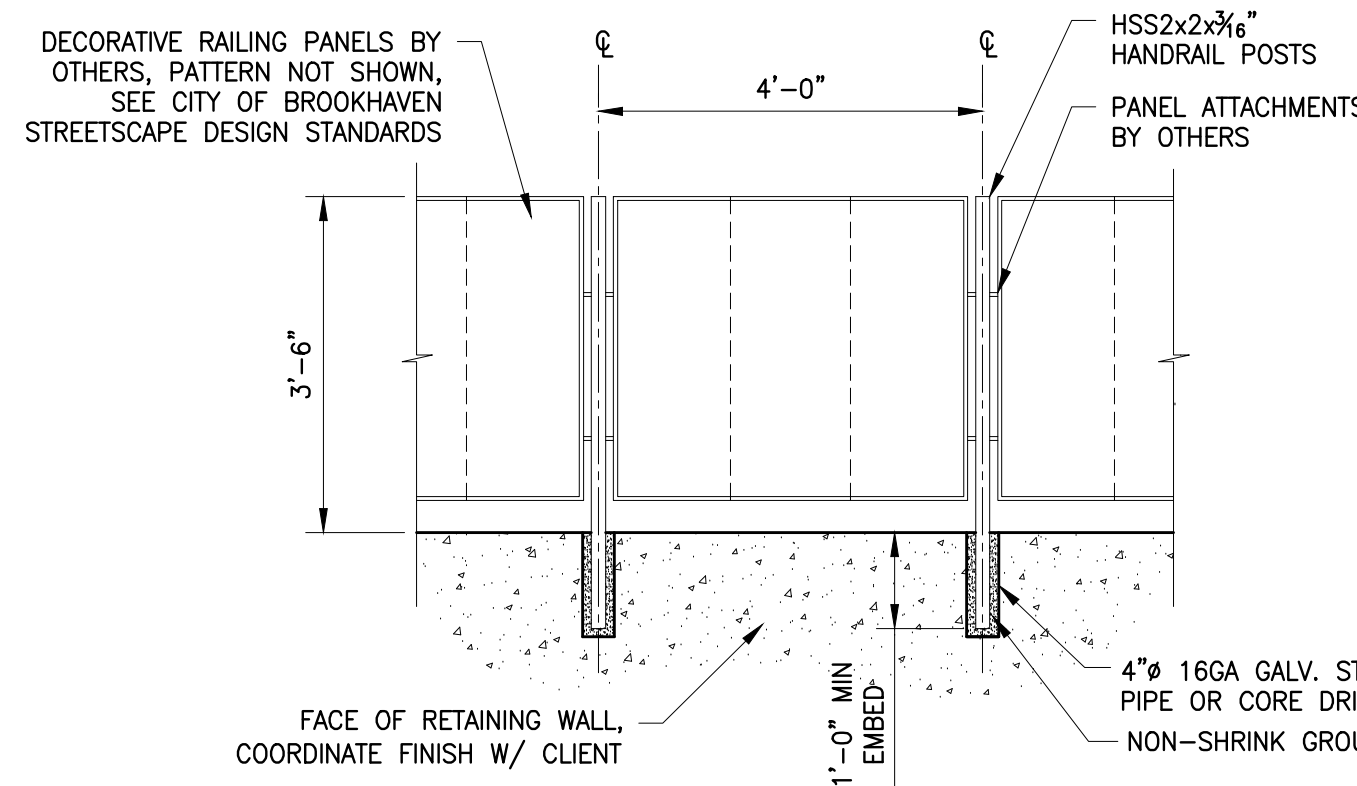


ABBREVIATION (ALPHABETIZED):

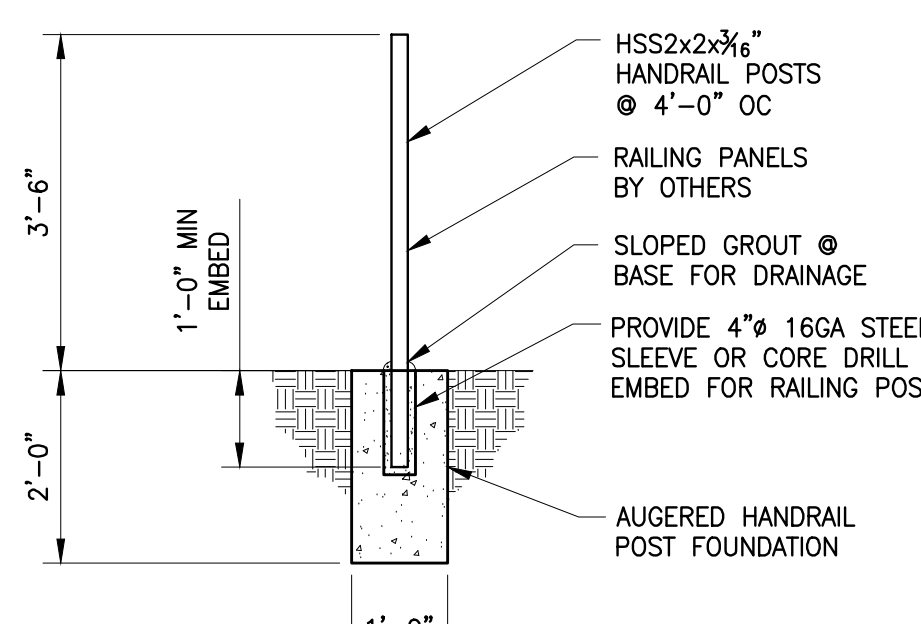
- A.B. = ANCHOR BOLTS
- ARCH. = ARCHITECT
- C.J. = CONTROL JOINT
- C.I.P. = CAST IN PLACE
- CONC. = CONCRETE
- CONT. = CONTINUOUS
- CONX. = CONNECTION
- COORD. = COORDINATE
- E.O.C. = EDGE OF CONCRETE
- E.W. = EACH WAY
- EXP. = EXPANSION
- EXT. = EXTERIOR
- F.F.E. = FINISH FLOOR ELEVATION
- FLR. = FLOOR
- FTG. = FOOTING
- GYP. = GYPSUM BOARD
- H.R. = HANDRAIL
- HDR. = HEADER
- HORZ. = HORIZONTAL
- INT. = INTERIOR
- MAX. = MAXIMUM
- MANF. = MANUFACTURER
- M.C. = MOMENT CONNECTION
- MIN. = MINIMUM
- O.C. = ON CENTER
- P.A.F. = POWDER ACTUATED FASTENER
- REINF. = REINFORCEMENT
- REQ. = REQUIRED
- SIM. = SIMILAR
- S.O.G. = SLAB ON GRADE
- STD. = STANDARD
- STL. = STEEL
- SQ. = SQUARE
- T&B = TOP & BOTTOM
- TYP. = TYPICAL
- U.N. = UNLESS NOTED
- U.N.O. = UNLESS NOTED OTHERWISE
- VERT. = VERTICAL
- W.W.M. = WELDED WIRE MESH

HAND RAIL DETAILS:

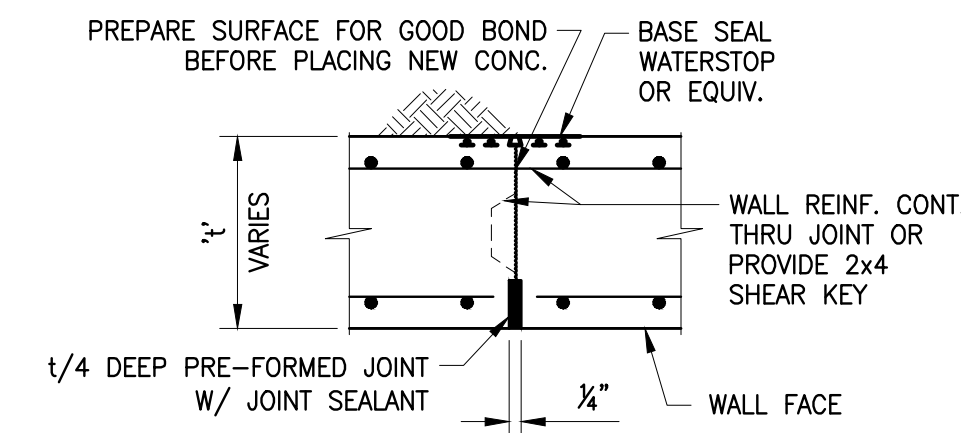
- REFER TO "STREETSCAPE DESIGN STANDARDS" BY THE CITY OF BROOKHAVEN FOR HANDRAIL DETAILS.
- FABRICATOR TO COORDINATE FINISHES AND COATINGS WITH PROJECT MANAGER AND/OR CITY OF BROOKHAVEN PRIOR TO FABRICATION.



1 TYP HANDRAIL DETAIL
32-0001 SCALE: 1/2"=1'-0"

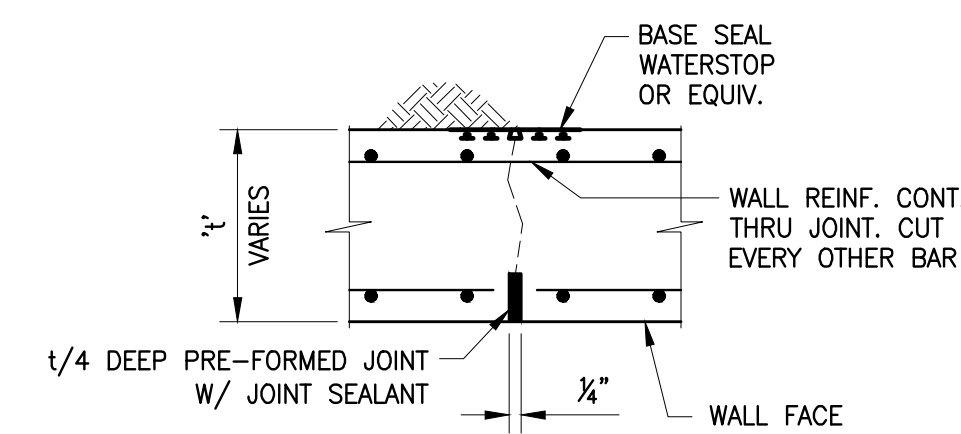


2 RAILING POST FOUNDATION
32-0001 SCALE: 1/2"=1'-0"



CONSTRUCTION JOINT - PLAN VIEW

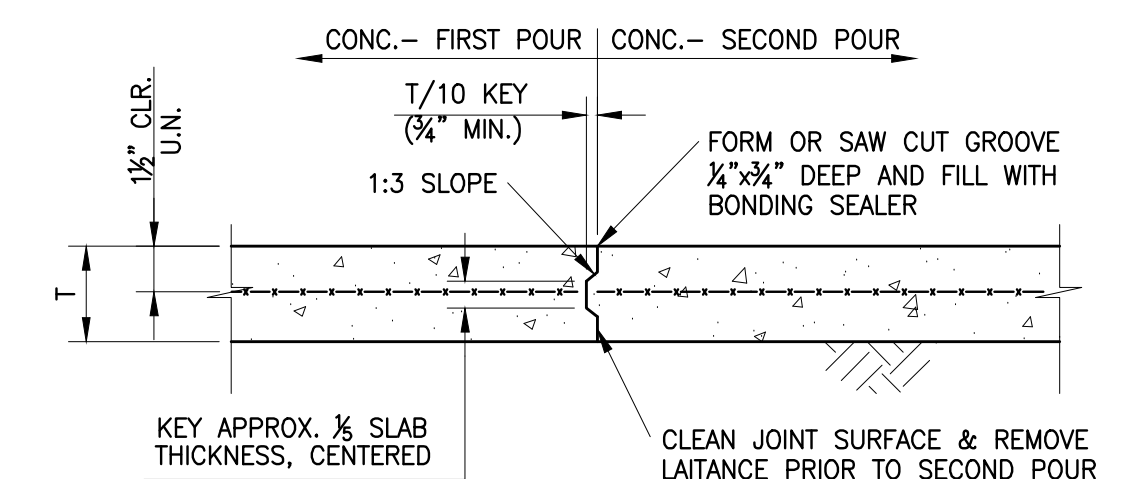
NOTE: COORDINATE JOINTS W/ TRAIL SLAB CONSTRUCTION JOINTS, IF POSSIBLE. CONTRACTOR TO PROVIDE CONSTRUCTION JOINTS AS REQ'D FOR CONSTRUCTION.



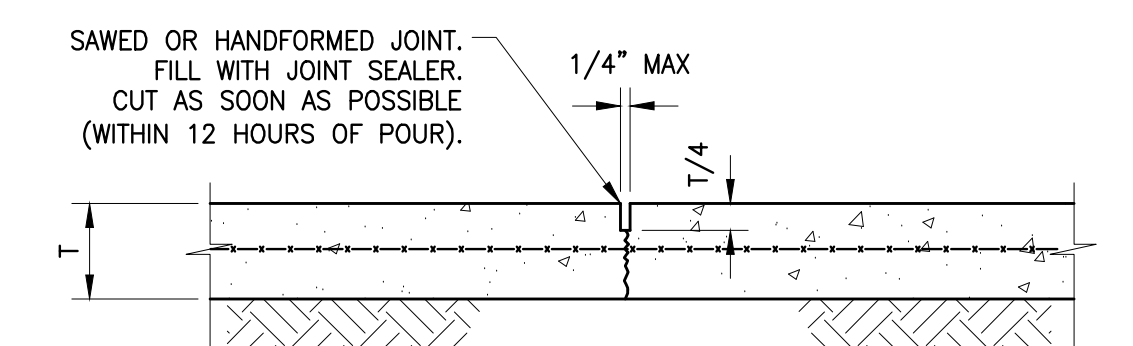
CONTROL JOINT - PLAN VIEW

NOTE: COORDINATE JOINTS W/ TRAIL SLAB CONTROL JOINTS, IF POSSIBLE. PROVIDE CONTROL JOINTS @ 20'-0" O.C. MAX.

A CONC. WALL JOINT DETAILS
32-0001 SCALE: 1"=1'-0"



CONSTRUCTION JOINT @ 40'-0" O.C. MAX



CONTROL JOINT @ 10'-0" O.C. MAX

B TRAIL SLAB JOINT DETAILS
32-0001 SCALE: 1"=1'-0"



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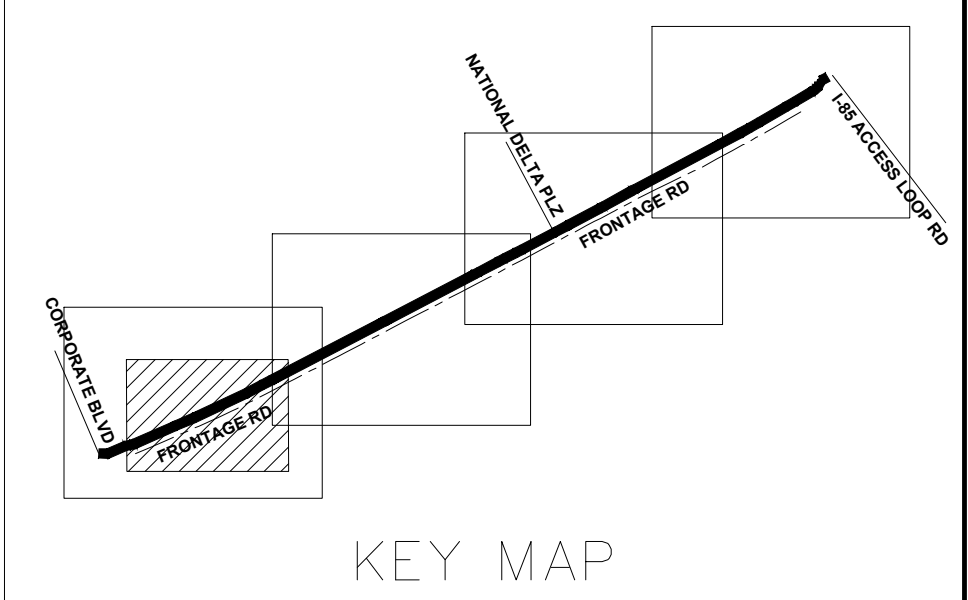
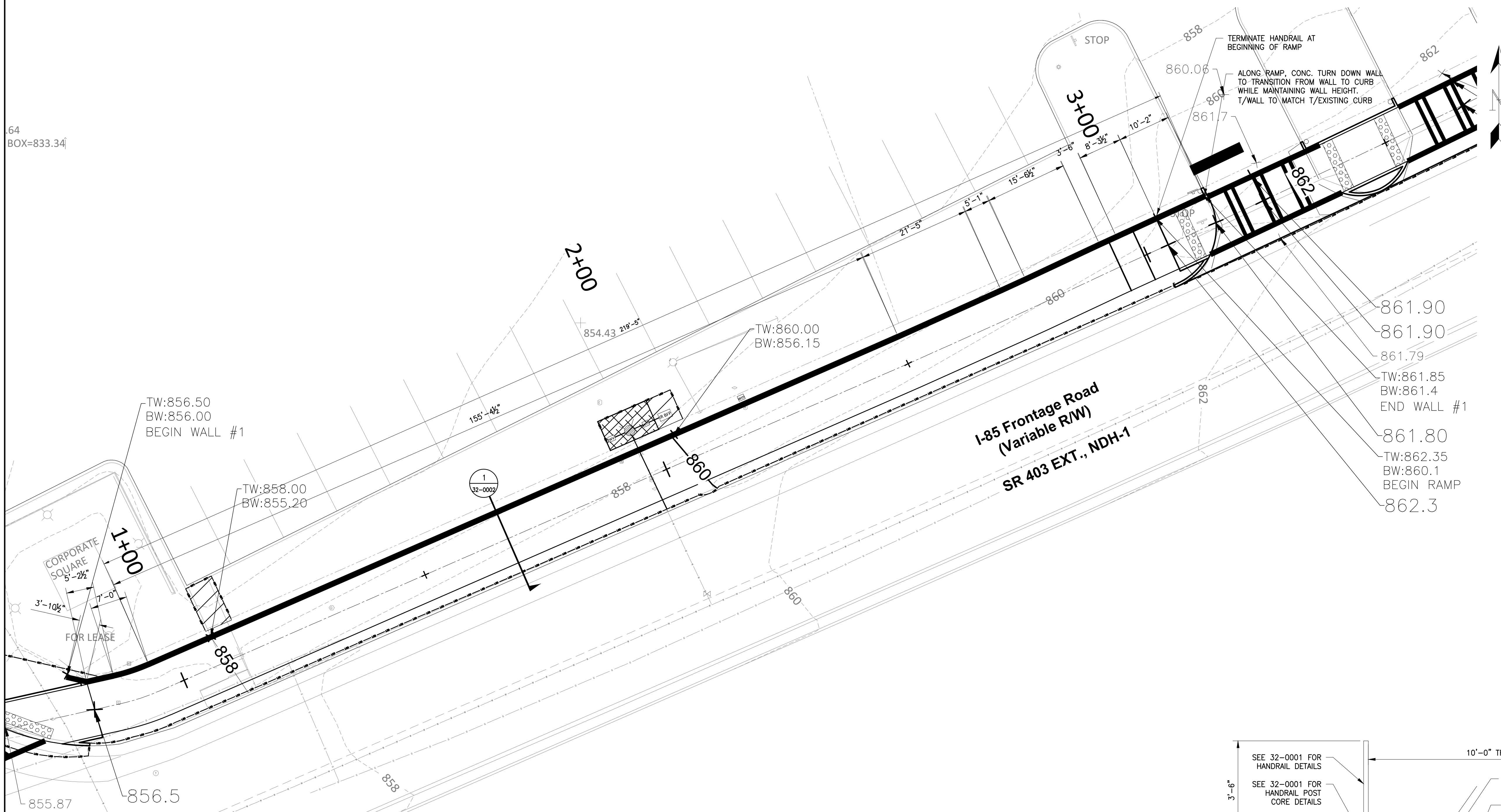
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/28/2021
REV. 3 GDOT COMMENTS	03/17/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

GENERAL NOTES &
SECTION DETAILS
N.E. EXPRESSWAY FRONTAGE ROAD
MUTI-USE PATH

DRAWING No.
32-0001

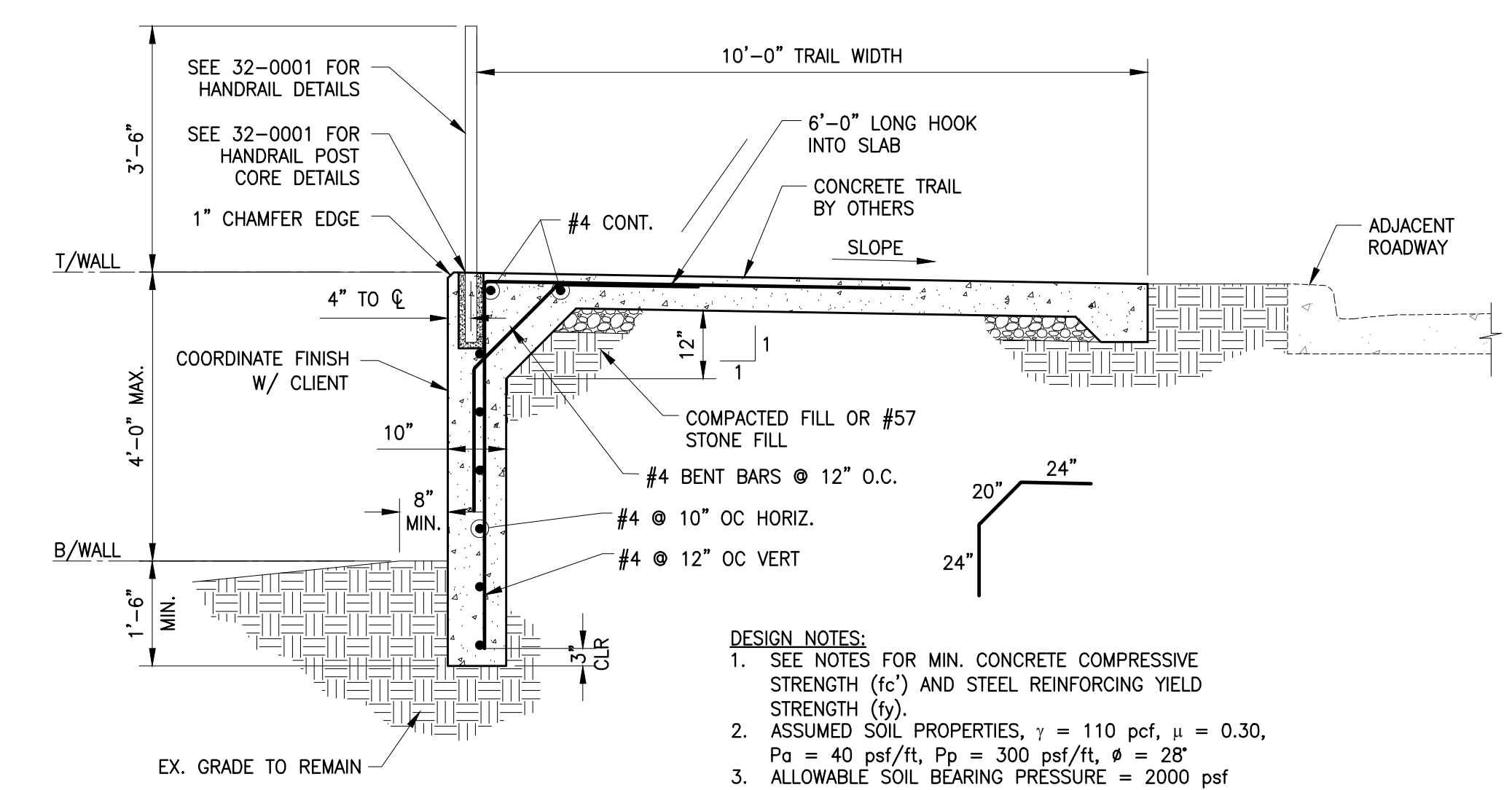
64
BOX=833.34



WALL #1 SITE PLAN

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

- NOTES:**
1. REFERENCE 13-0001 THRU 13-0004 FOR MAIN LINE PLANS.
 2. COORDINATE RETAINING WALL CONTROL JOINTS (C.J.) & EXPANSION JOINTS (E.J.) W/ JOINTS IN TRAIL SLAB.
 3. WALL #1 TO HAVE DECORATIVE RAILING. SEE PLAN FOR EXTENTS AND DETAILS FOR CONSTRUCTION REQUIREMENTS.



1 TURN DOWN WALL DETAIL
SCALE: 1/2"=1'-0"

- DESIGN NOTES:**
1. SEE NOTES FOR MIN. CONCRETE COMPRESSIVE STRENGTH (f_c') AND STEEL REINFORCING YIELD STRENGTH (f_y).
 2. ASSUMED SOIL PROPERTIES, $\gamma = 110$ pcf, $\mu = 0.30$, $P_a = 40$ psf/ft, $P_p = 300$ psf/ft, $\phi = 28^\circ$
 3. ALLOWABLE SOIL BEARING PRESSURE = 2000 psf



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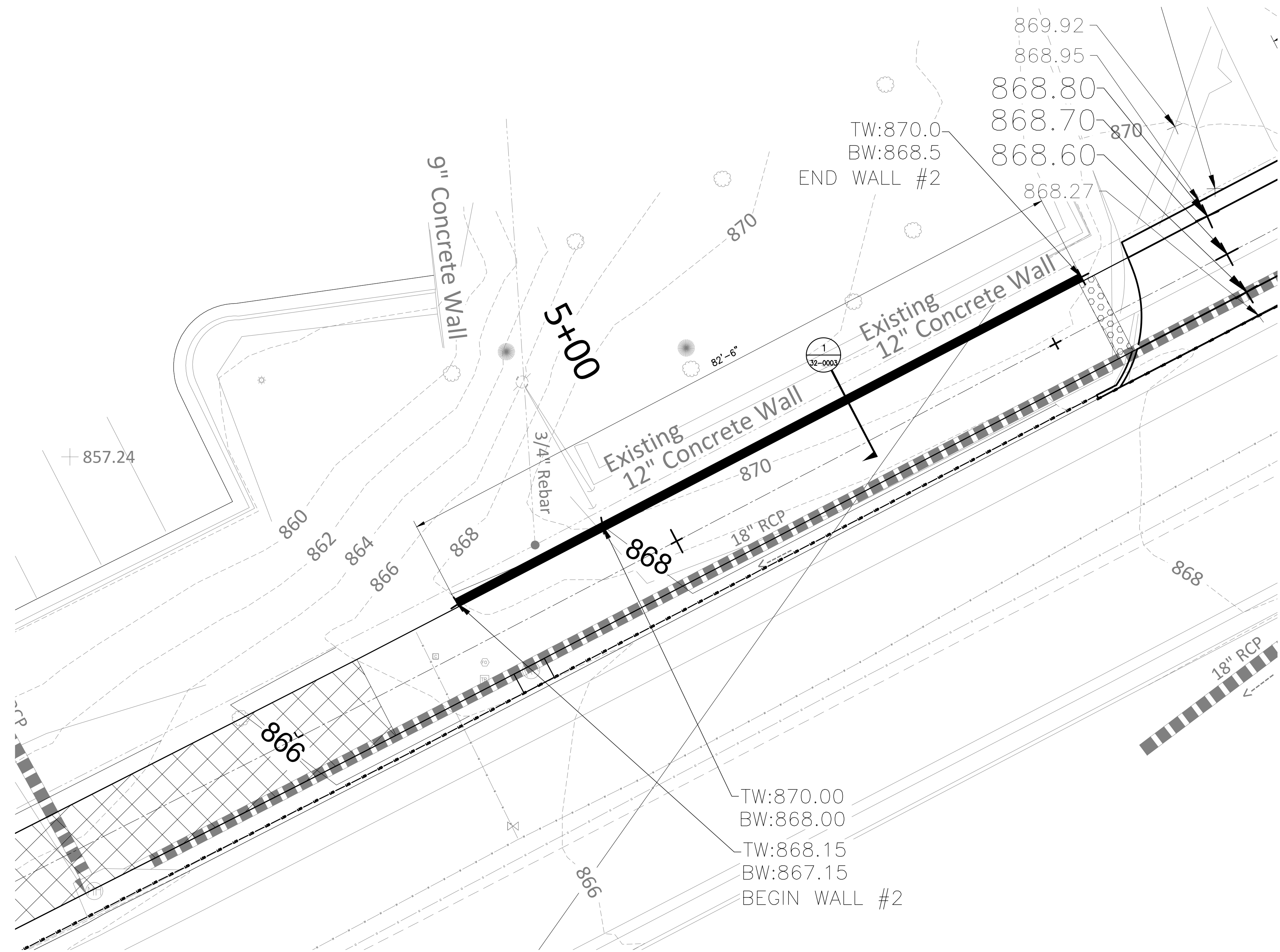
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

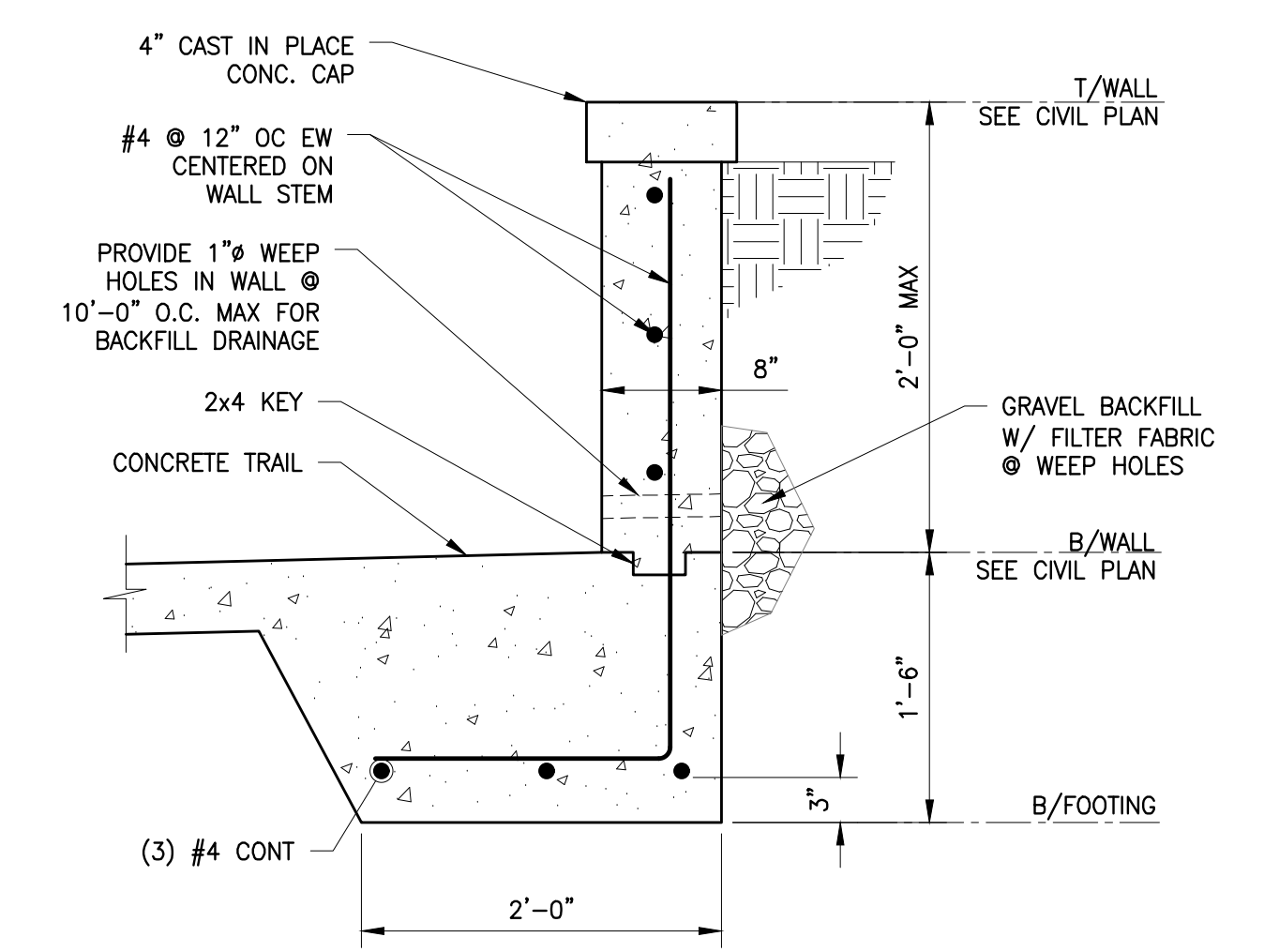
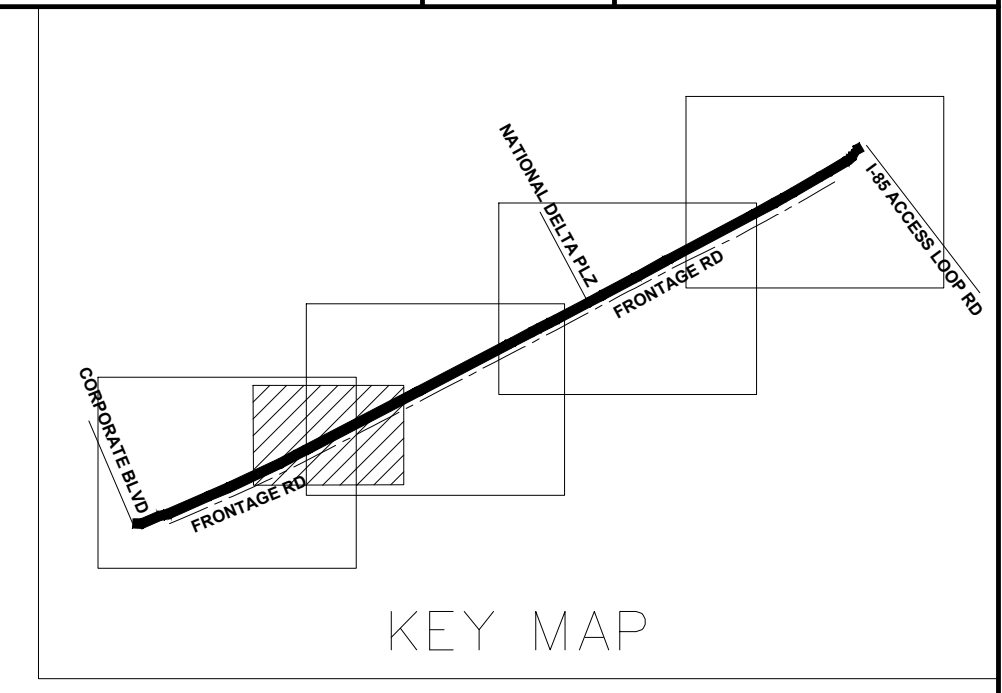
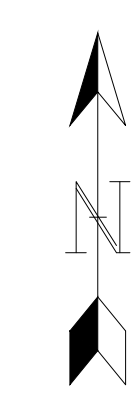
WALL #1
PLAN VIEW
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No. 32-0002

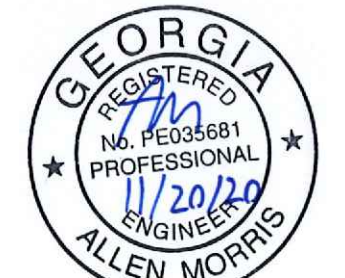


WALL 2 SITE PLAN
SCALE: 1/8"=1'-0"

- NOTES:
 1. REFERENCE 13-0001 THRU 13-0004 FOR MAIN LINE PLANS.
 2. COORDINATE RETAINING WALL CONTROL JOINTS (C.J.) & EXPANSION JOINTS (E.J.) W/ JOINTS IN TRAIL SLAB.



1 TURN UP WALL SECTION DETAIL
 32-0003 SCALE: 1"=1'-0"

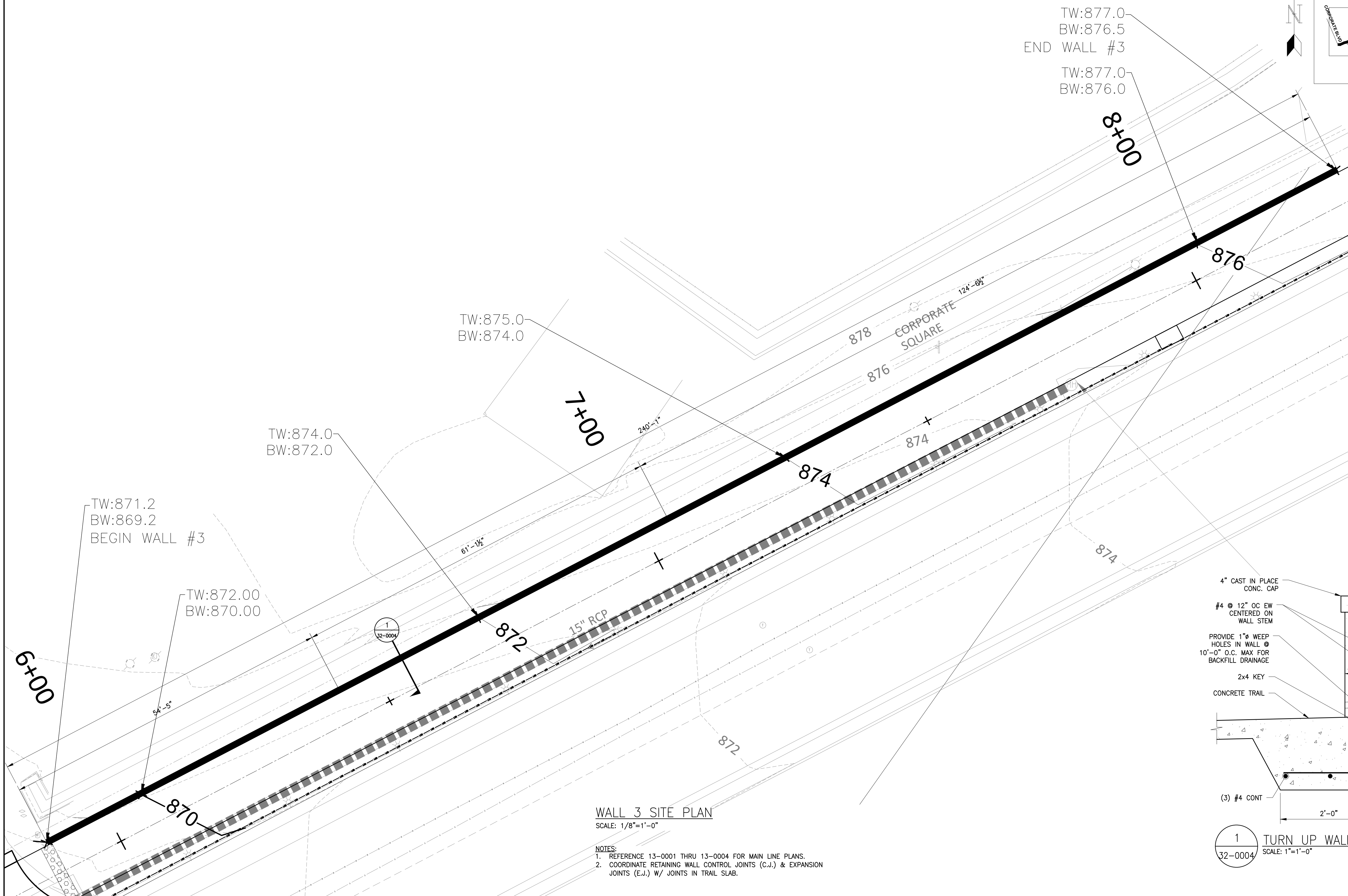
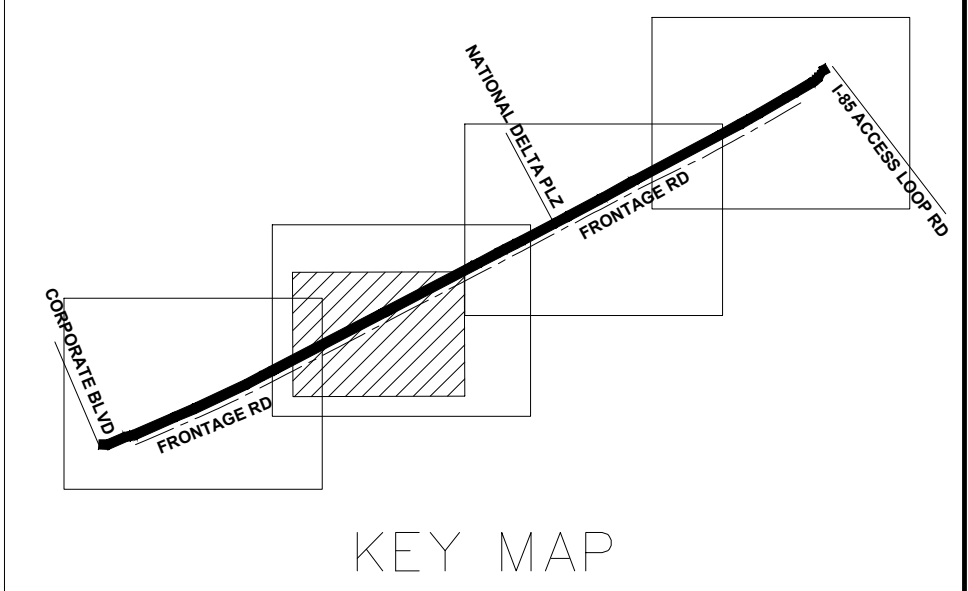


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REV. 3 GDOT COMMENTS	03/17/2021

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 7
 WALL #2 PLAN
 & SECTION DETAIL
 N.E. EXPRESSWAY FRONTAGE ROAD
 MUTI-USE PATH
 DRAWING No. 32-0003



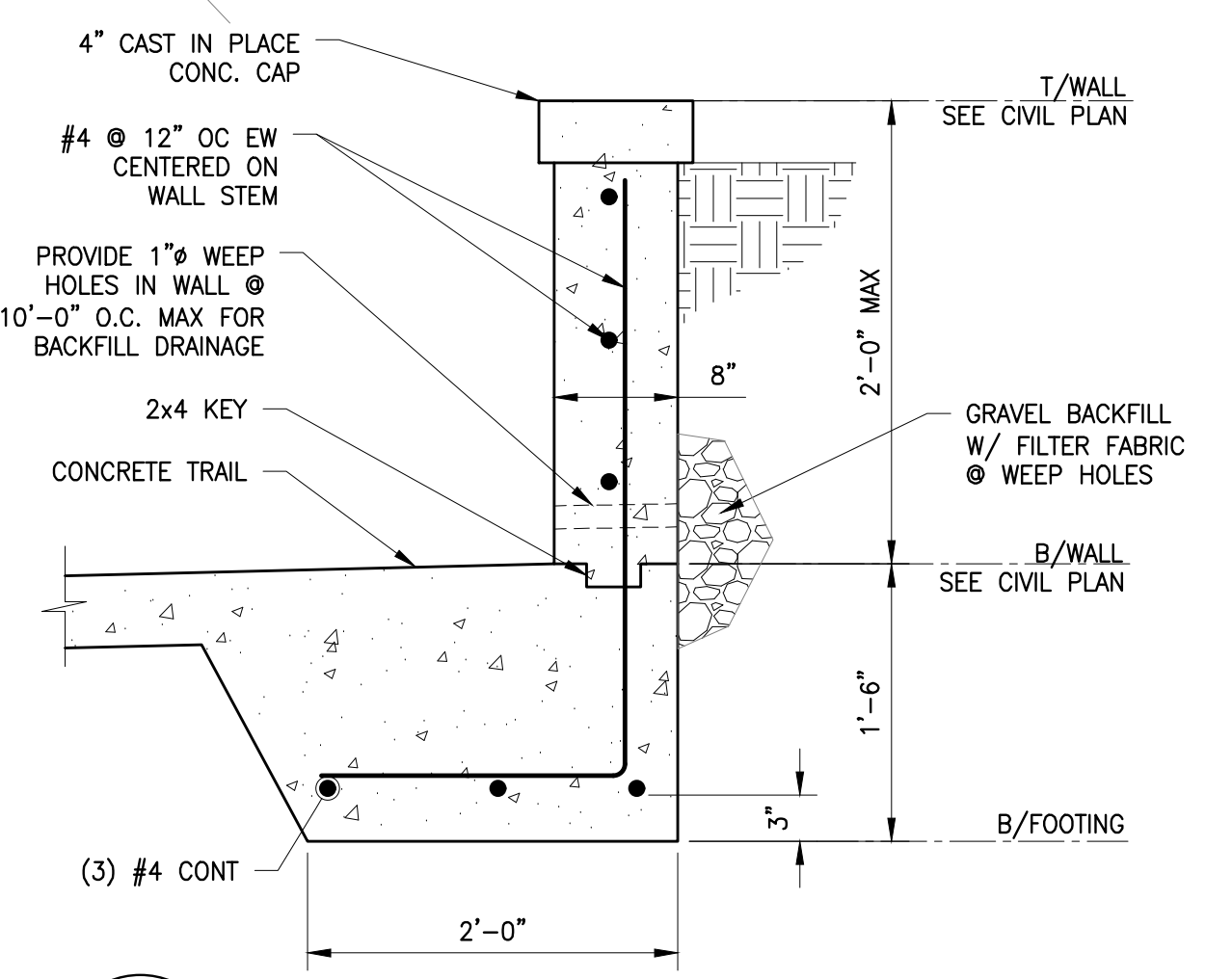
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END WALL #3
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BW:869.2
BEGIN WALL #3

TW:872.00
BW:870.00



1 TURN UP WALL SECTION DETAIL
SCALE: 1"=1'-0"

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

- NOTES:
1. REFERENCE 13-0001 THRU 13-0004 FOR MAIN LINE PLANS.
2. COORDINATE RETAINING WALL CONTROL JOINTS (C.J.) & EXPANSION JOINTS (E.J.) W/ JOINTS IN TRAIL SLAB.



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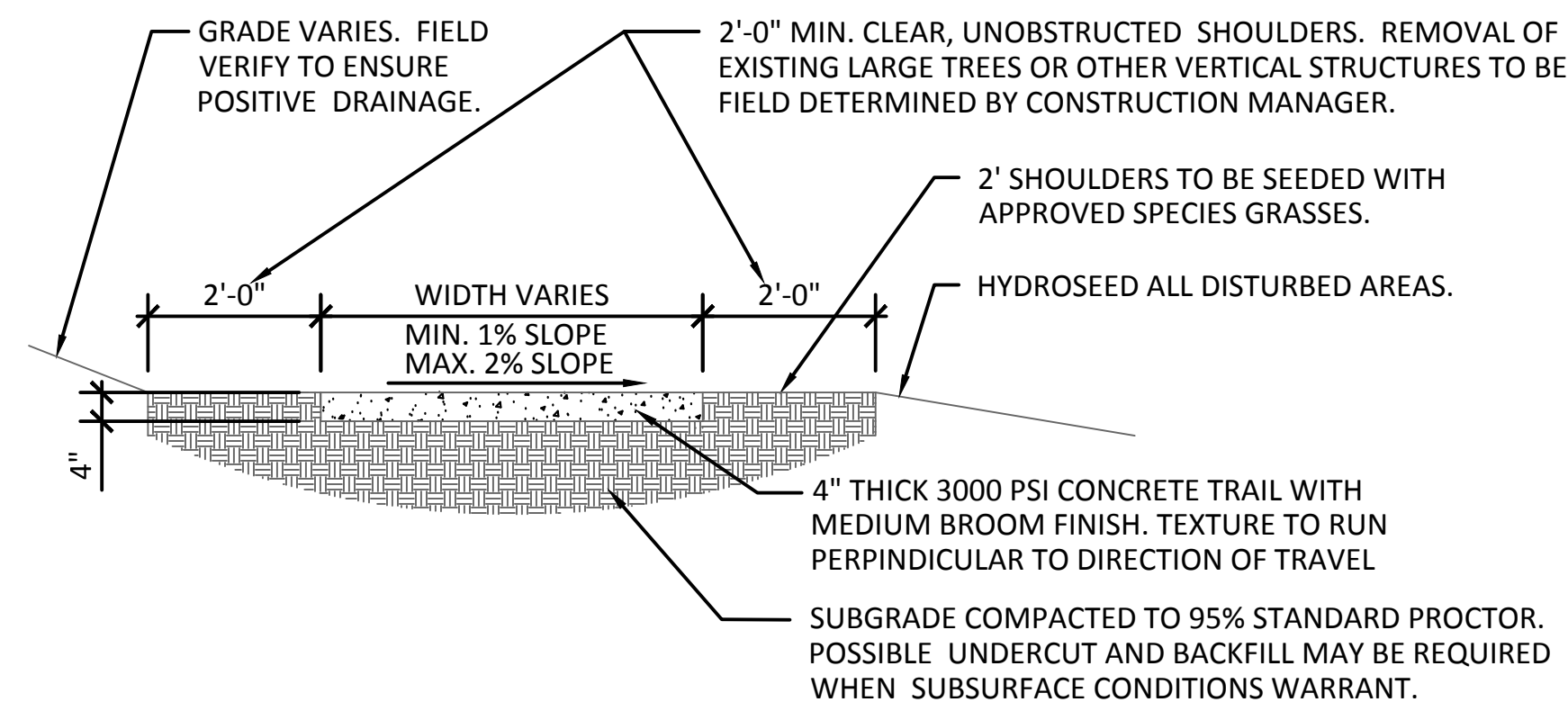
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
WALL #3 PLAN
& SECTION DETAIL
N.E. EXPRESSWAY FRONTAGE ROAD
MUTI-USE PATH
DRAWING No. 32-0004

NOTES:

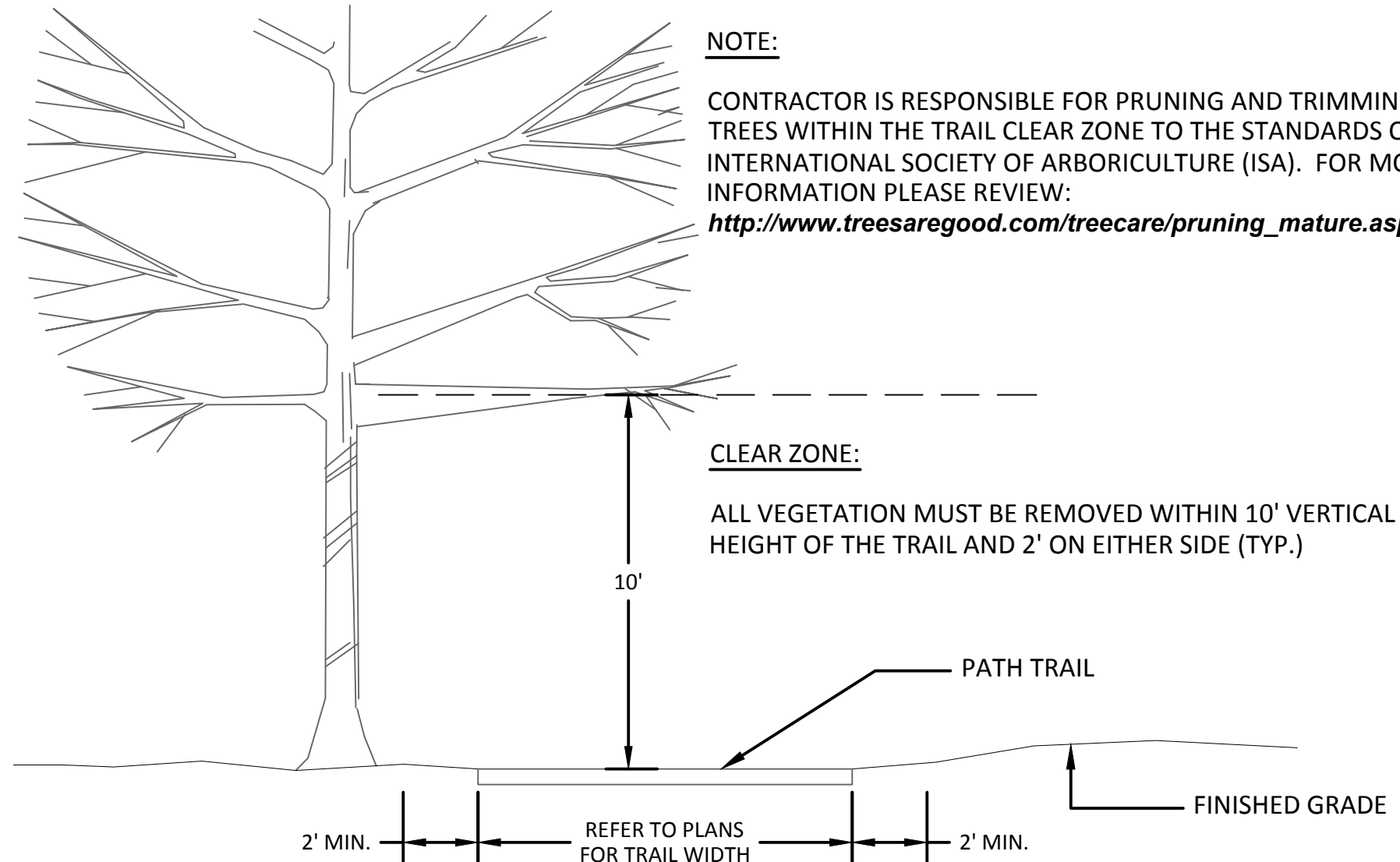
- 1) TRAIL CONCRETE TO BE 4" THICK EXCEPT WITHIN LIMITS OF A RADIUS WHERE IT IS TO BE 8"
- 2) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 3/4" DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTROL JOINTS TO BE LOCATED EVERY 5' ALONG ENTIRE LENGTH OF TRAIL. CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.
- 3) 3/8" X 4" EXPANSION JOINTS TO BE LOCATED ALONG TRAIL MIN. EVERY 50' IN PLACE OF CONTROL JOINT.
- 4) TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS



1 TRAIL CROSS SECTION
38-0001 SCALE: 1/2" = 1'-0"

NOTE:

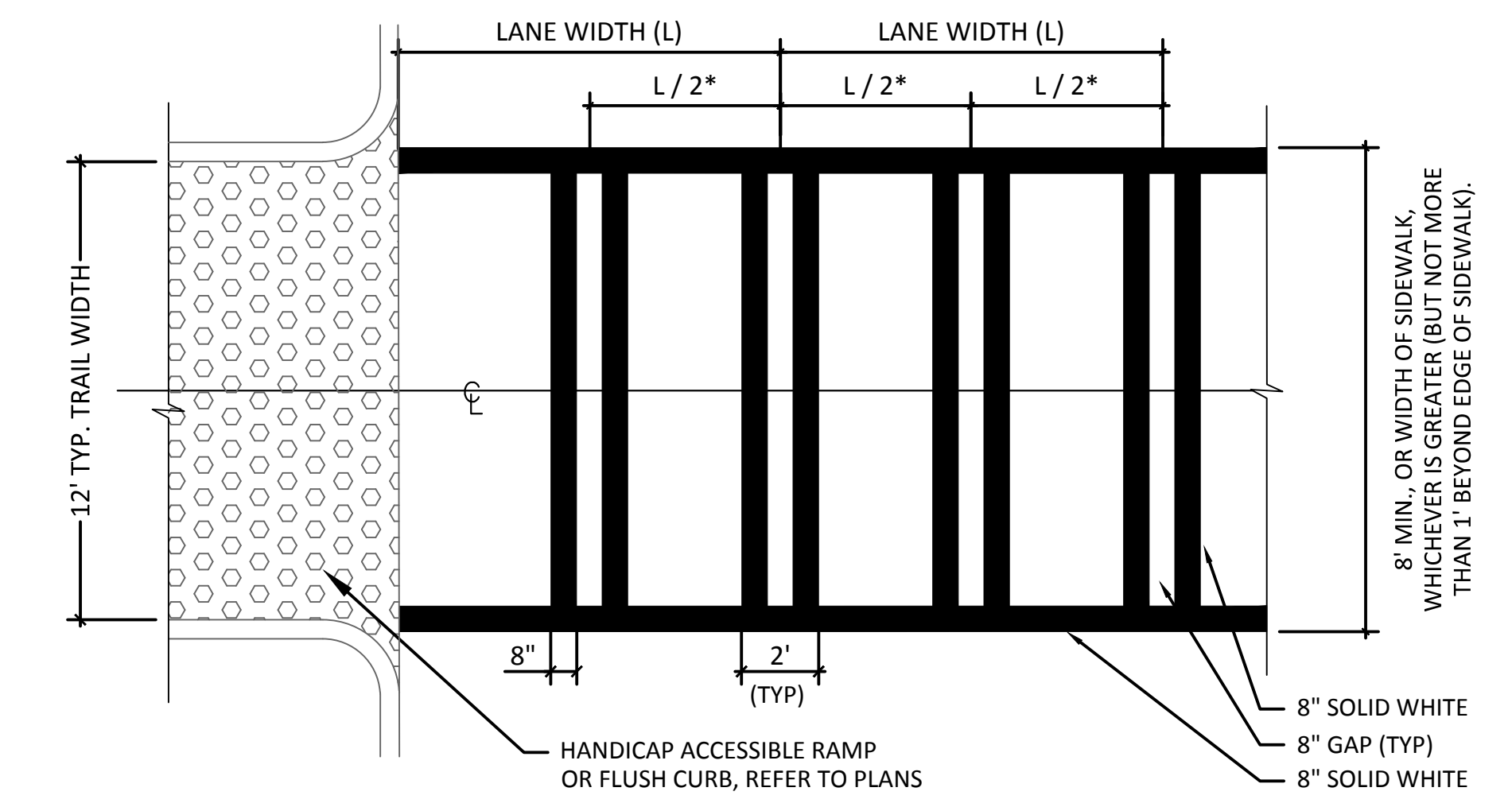
CONTRACTOR IS RESPONSIBLE FOR PRUNING AND TRIMMING TREES WITHIN THE TRAIL CLEAR ZONE TO THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). FOR MORE INFORMATION PLEASE REVIEW: http://www.treesaregood.com/treecare/pruning_mature.aspx



2 CLEAR ZONE
38-0001 SCALE: 1/4" = 1'-0"

NOTES:

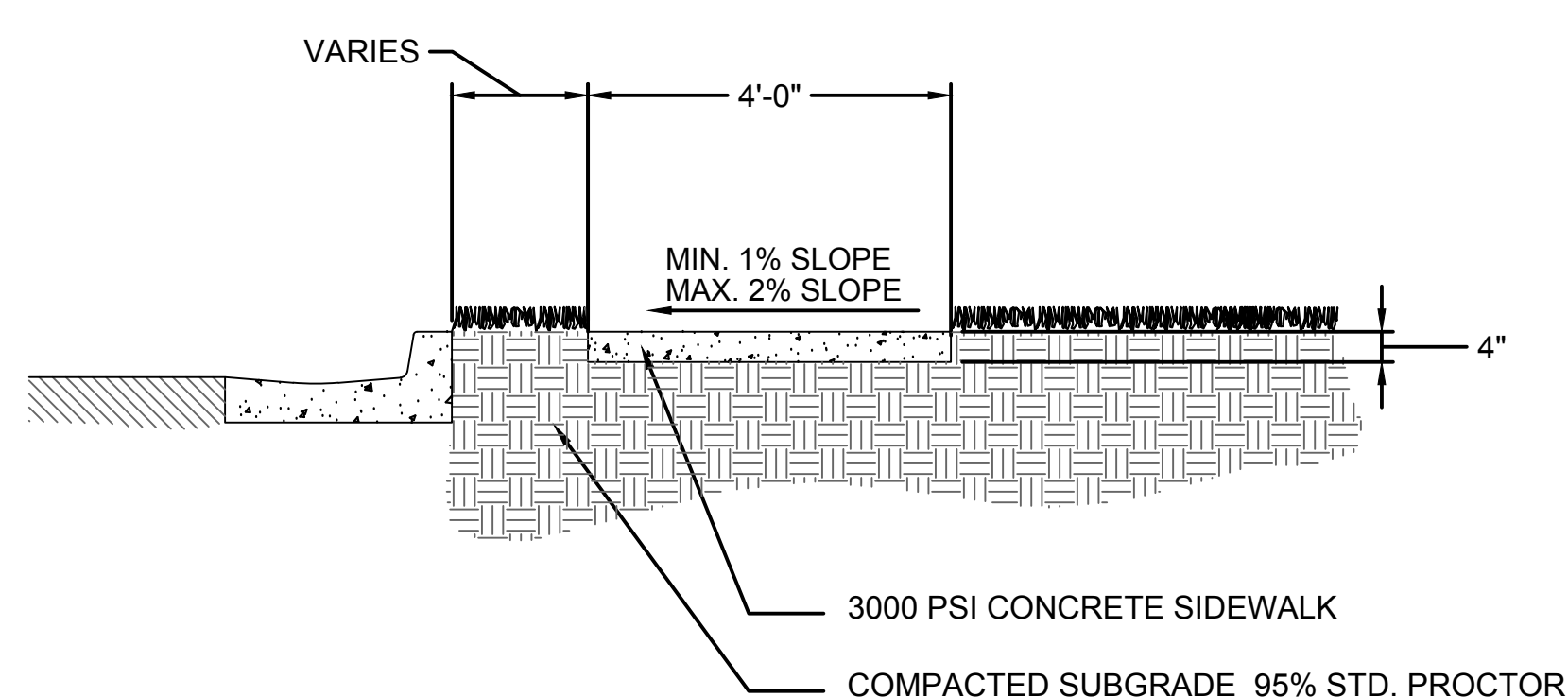
- 1. ALL CROSSWALK MARKINGS TO BE ALKYO THERMOPLASTIC WITH CLEAN CUT EDGES (TYP.). CONFORM TO GDOT STANDARD SPECIFICATIONS FOR INSTALLATION, COLOR, AND FINISH.
- *USE 5' FOR (L / 2) WHEN LANE WIDTH EXCEEDS 12', OR WHERE LANE LINES HAVE BEEN OMITTED.



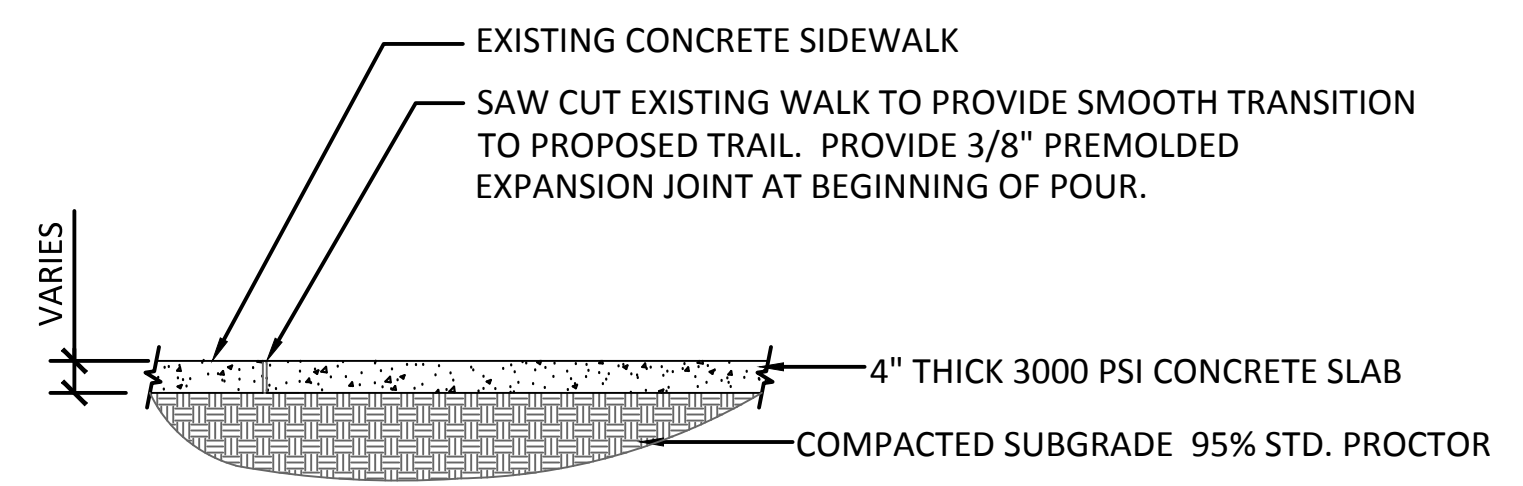
3 GDOT CROSSWALK STRIPING
38-0001 SCALE: 1/4" = 1'-0"

NOTES:

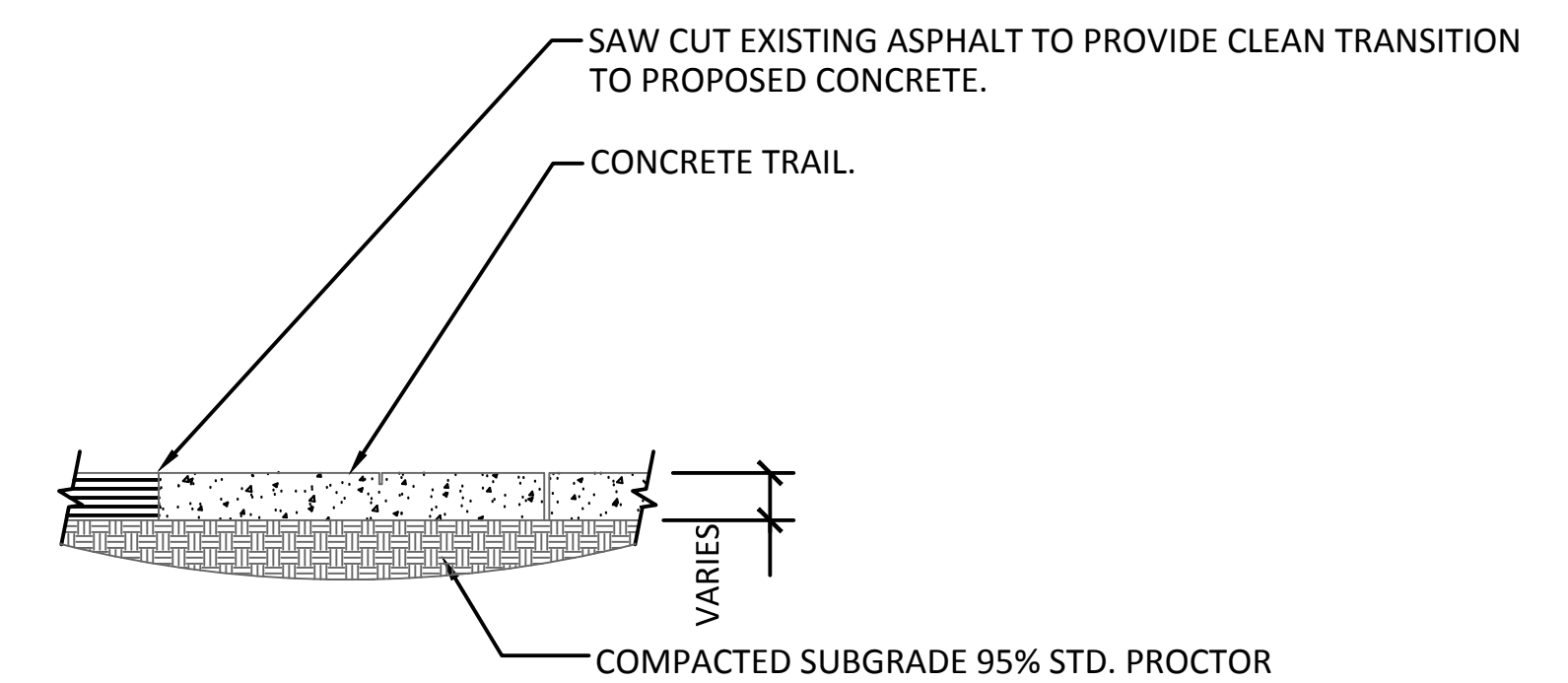
- 1) CONCRETE TO BE 4" THICK EXCEPT WITHIN LIMITS OF A RADIUS WHERE IT IS TO BE 8"
- 2) CONTRACTOR TO SAW CUT CONTROL JOINT AT LEAST 3/4" DEPTH OF SLAB ACROSS ENTIRE WIDTH OF TRAIL. CONTROL JOINTS TO BE LOCATED EVERY 5' ALONG ENTIRE LENGTH OF TRAIL. CONTRACTOR REQUIRED TO REMOVE SAW DUST AFTER CUTTING.
- 3) 3/8" X 4" EXPANSION JOINTS TO BE LOCATED ALONG TRAIL MIN. EVERY 50' IN PLACE OF CONTROL JOINT.
- 4) TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS



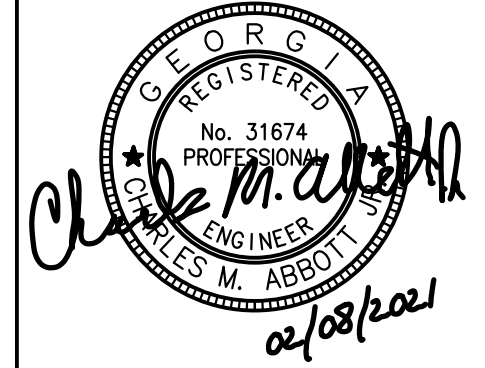
4 TYPICAL SIDEWALK
38-0001 SCALE: 1/2" = 1'-0"



5 EXISTING WALK/TRAIL TRANSITION
38-0001 SCALE: 1/2" = 1'-0"



6 ASPHALT STREET/TRAIL TRANSITION
38-0001 SCALE: 1/2" = 1'-0"



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CHARLES M. ABBOTT JR, P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 00000041586 EXPIRES: 04/13/2022
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
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O: 404-991-4763 C: 404-637-0682

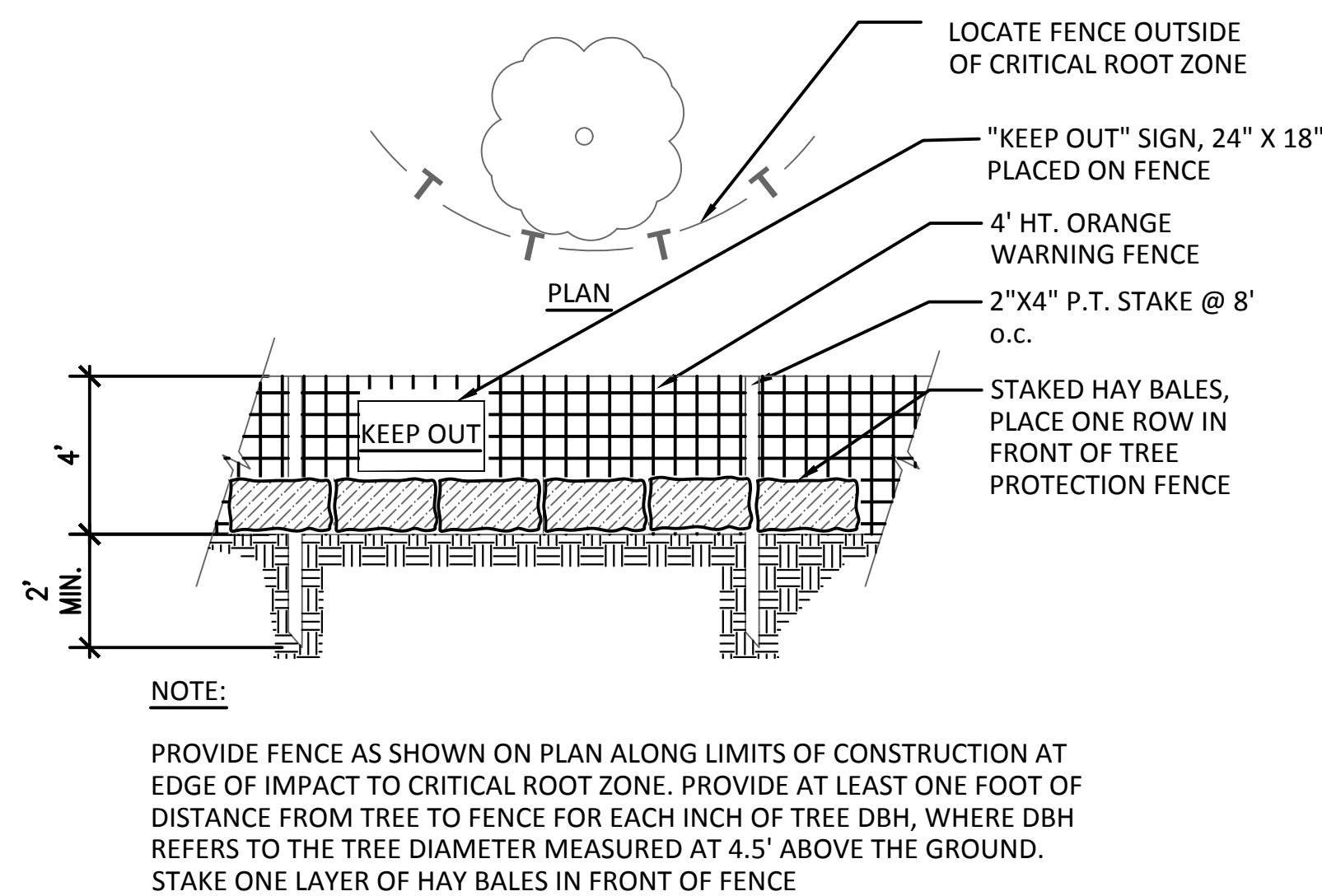
REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

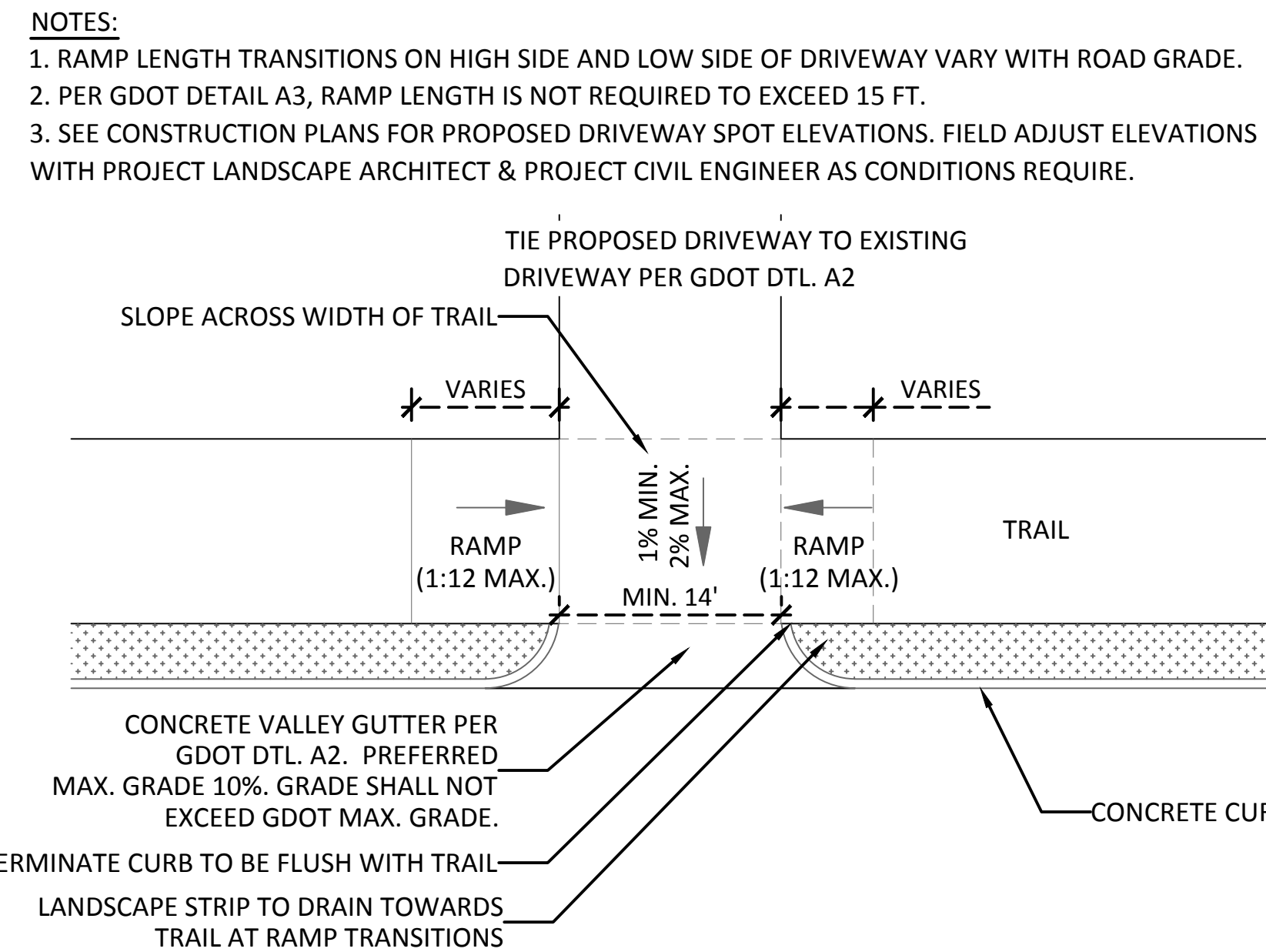
SPECIAL CONSTRUCTION DETAILS

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

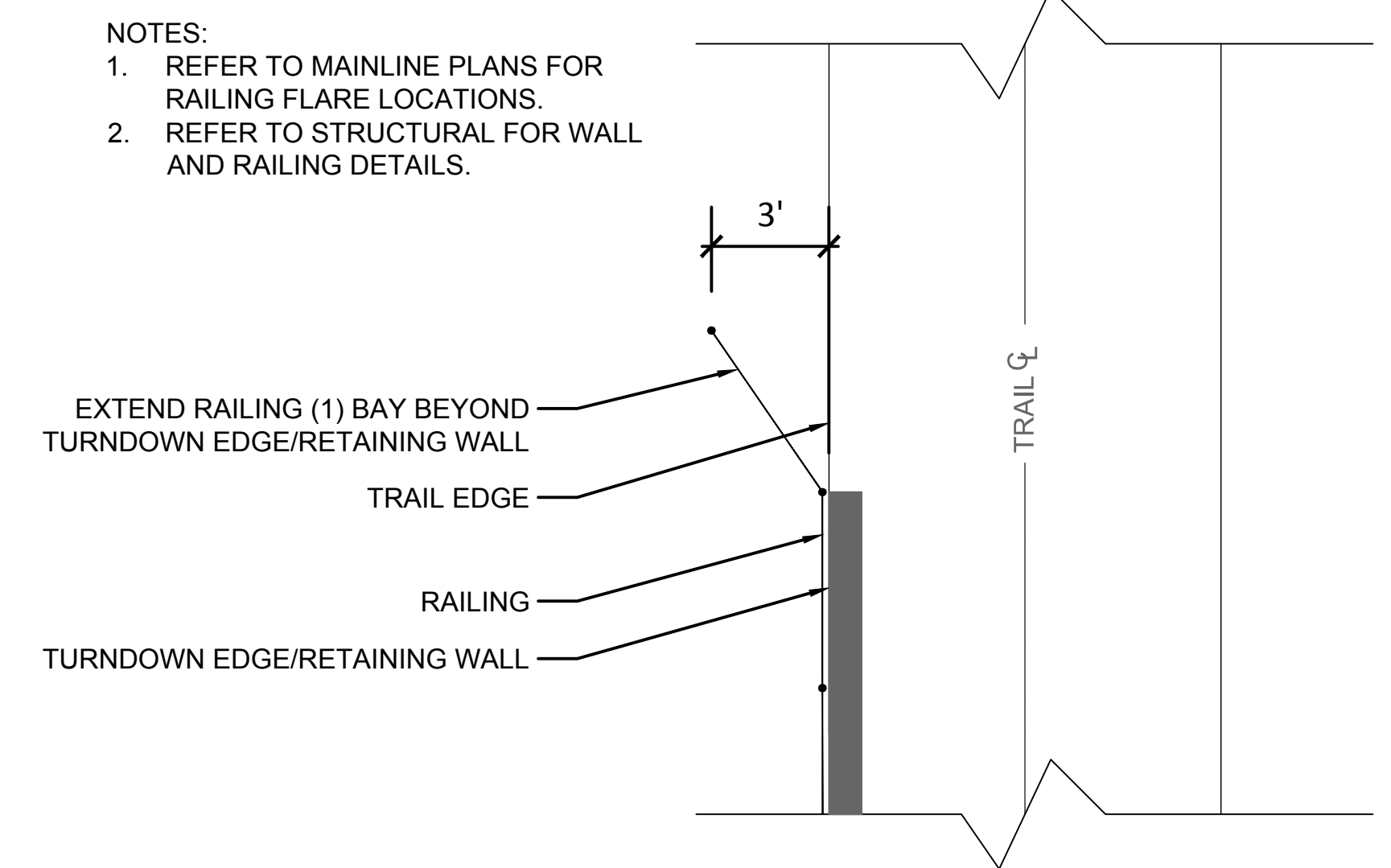
DRAWING No.
38-0001



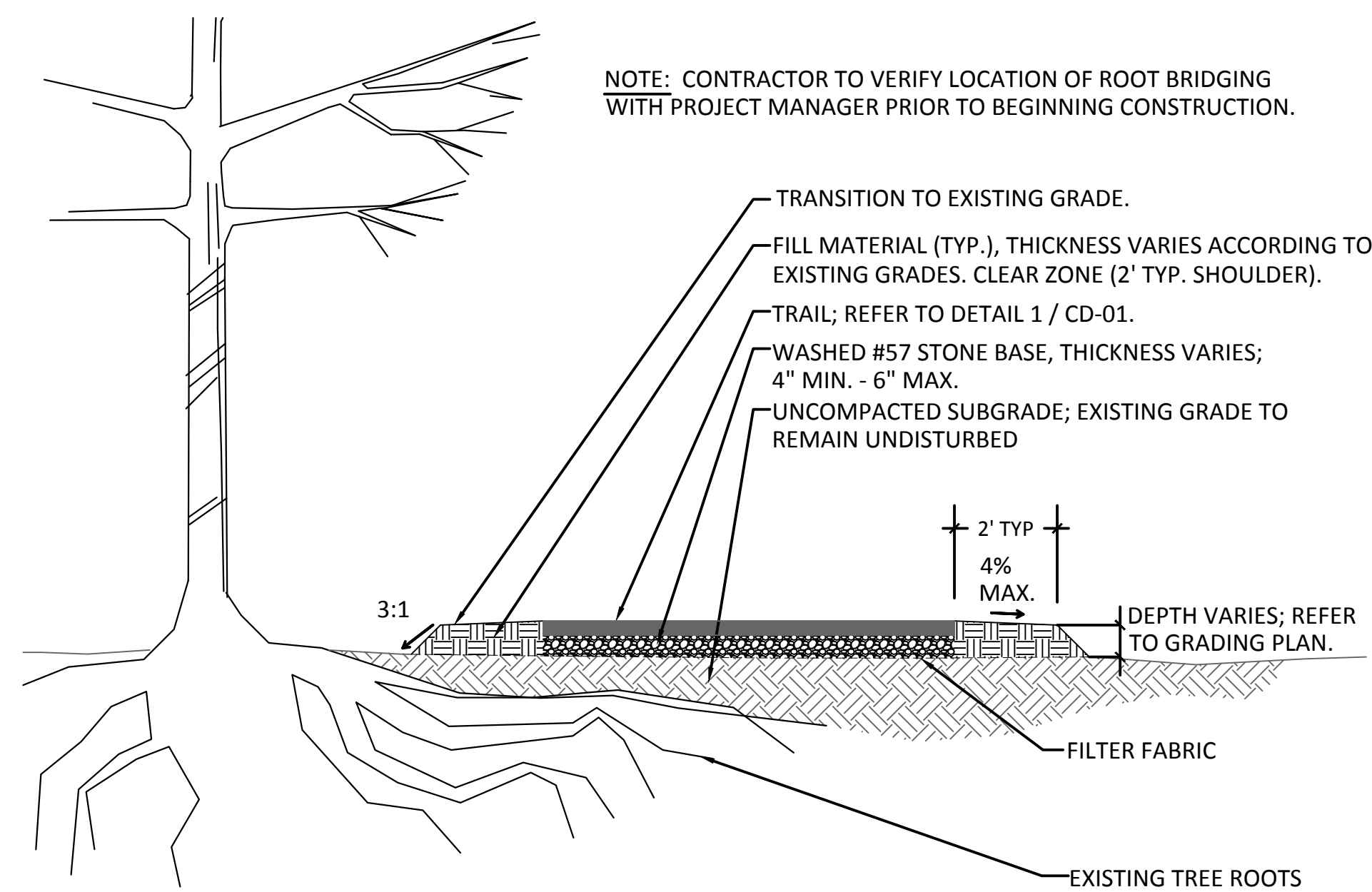
1 TREE PROTECTION FENCE
38-0002 SCALE: 1/4" = 1'-0"



2 DRIVEWAY APRON/TRAIL TRANSITION
38-0002 SCALE: 1/8" = 1'-0"

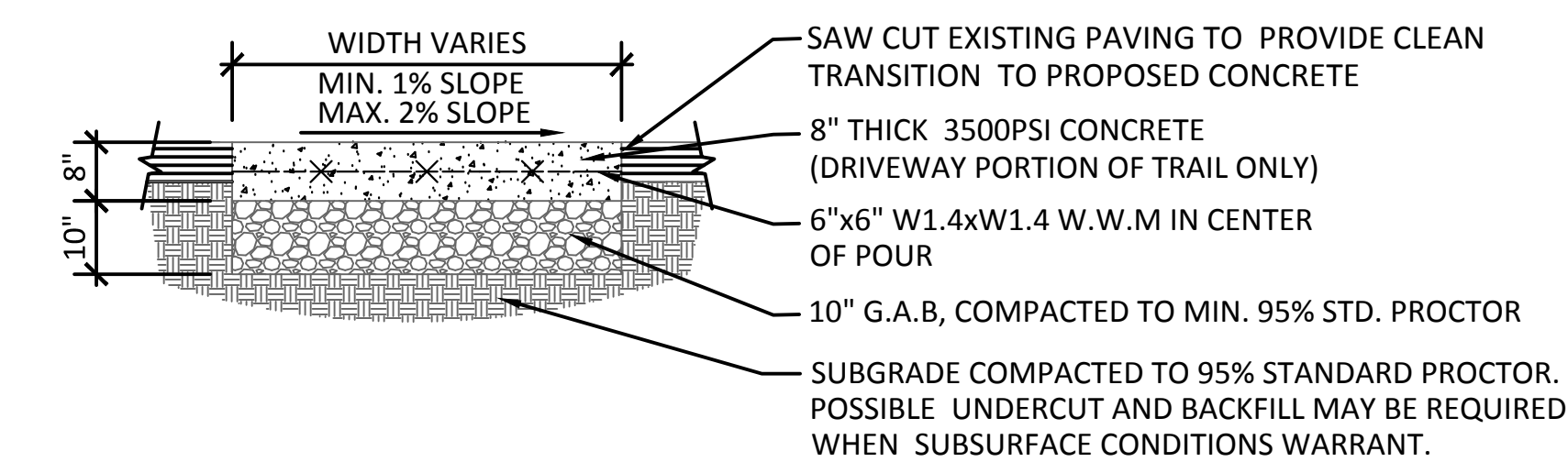


3 END RAILING FLARE: PLAN VIEW
38-0002 SCALE: 1/4" = 1'-0"



4 ROOT BRIDGING
38-0002 SCALE: 1/4" = 1'-0"

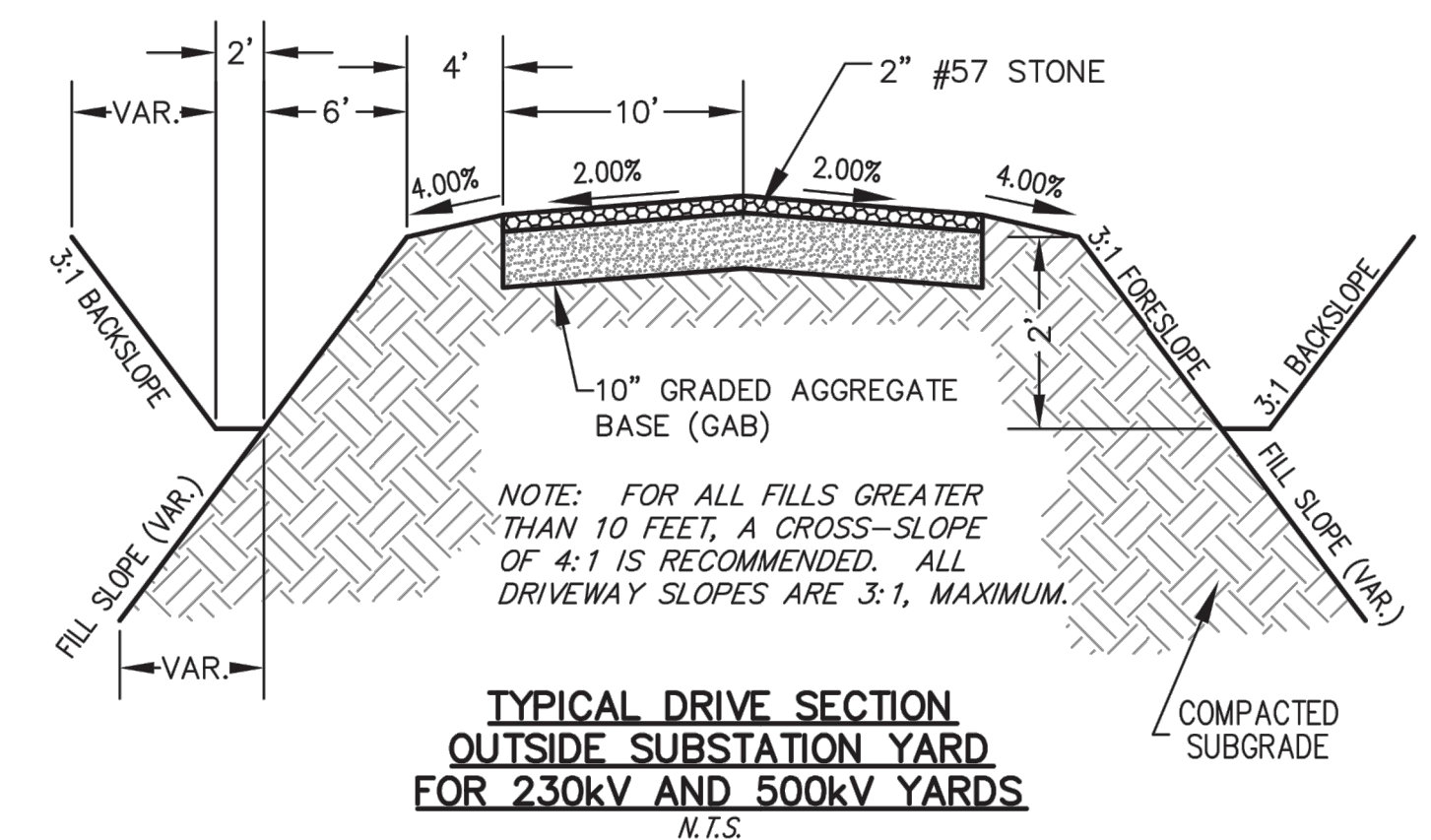
HEAVY DUTY CONCRETE DESIGN DETAIL TO BE USED AT ALL GEORGIA POWER DRIVEWAY CROSSINGS



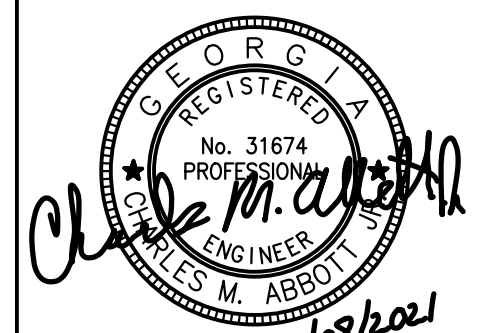
5 GA POWER SUBSTATION DRIVEWAY APRON DETAIL
38-0002 SCALE: 1/2" = 1'-0"

*FOR 115KV SUBSTATION YARDS & SMALLER, 6" OF #57 STONE SHALL BE INSTALLED ON COMPACTED SUBGRADE FOR DRIVEWAYS

*SUBGRADE FOR DRIVEWAYS SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST ASTM-D-698. THE TOP ONE (1) FOOT SHOULD BE COMPACTED TO A MINIMUM OF 98 PERCENT.



** SEE ADJACENT DETAIL FOR DRIVEWAY SPECIFICATIONS. #57 STONE IS NOT ACCEPTABLE FINAL SURFACE MATERIAL FOR THIS PROJECT. THIS DETAIL AS BEEN PROVIDED BY GEORGIA POWER FOR REFERENCE ONLY, REFER TO SHEET 13-0002 FOR DRIVEWAY GRADINGS



PLANS PREPARED BY:
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

SPECIAL CONSTRUCTION DETAILS

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
38-0002

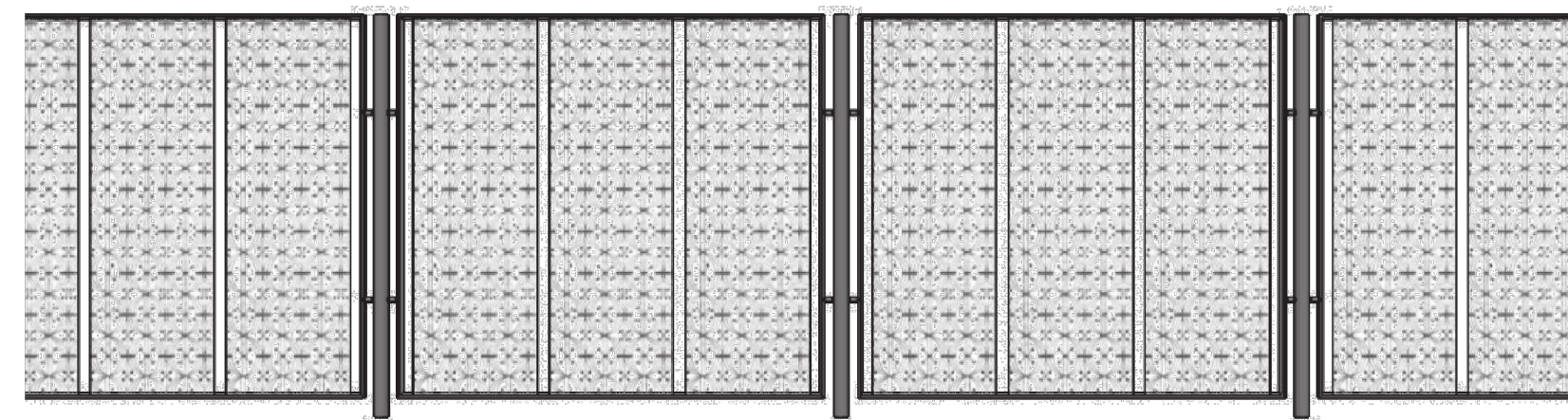
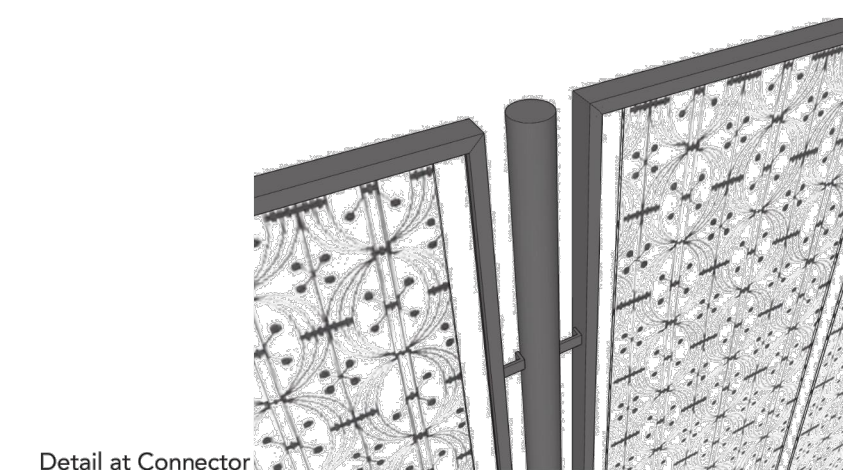
Guard Railing Systems

Material: Hot rolled Steel
Finish: Powdercoat finish
Infil Panel Design: TBD
Connectors hardware: Stainless Steel 304
Base insert: Stainless steel sleeve, 2" diameter, backfilled with non-shrink grout.
Inset depth to be 12" minimum.

Notes:

- The railings will be a square pipe rail frame, at 4 foot intervals, that accepts digitally fabricated metal panels that can reflect the unique situations and locations that they are installed in.
- All steel to be shop welded and finished.
- Finish assembly to be completed in field.

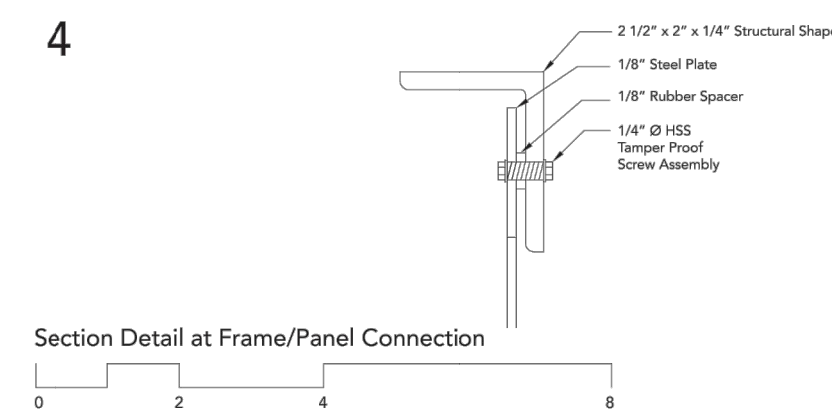
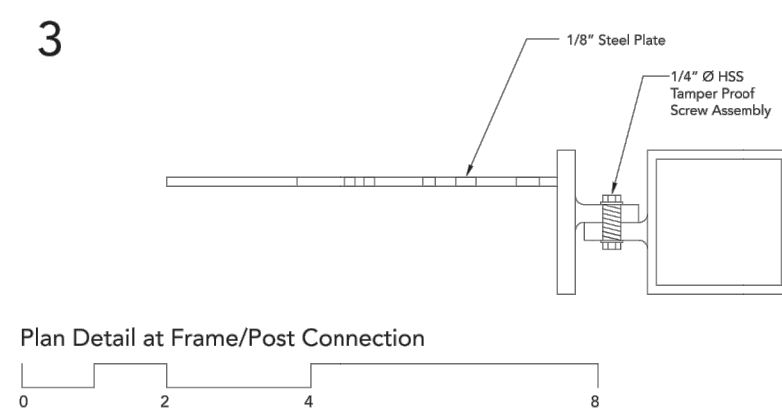
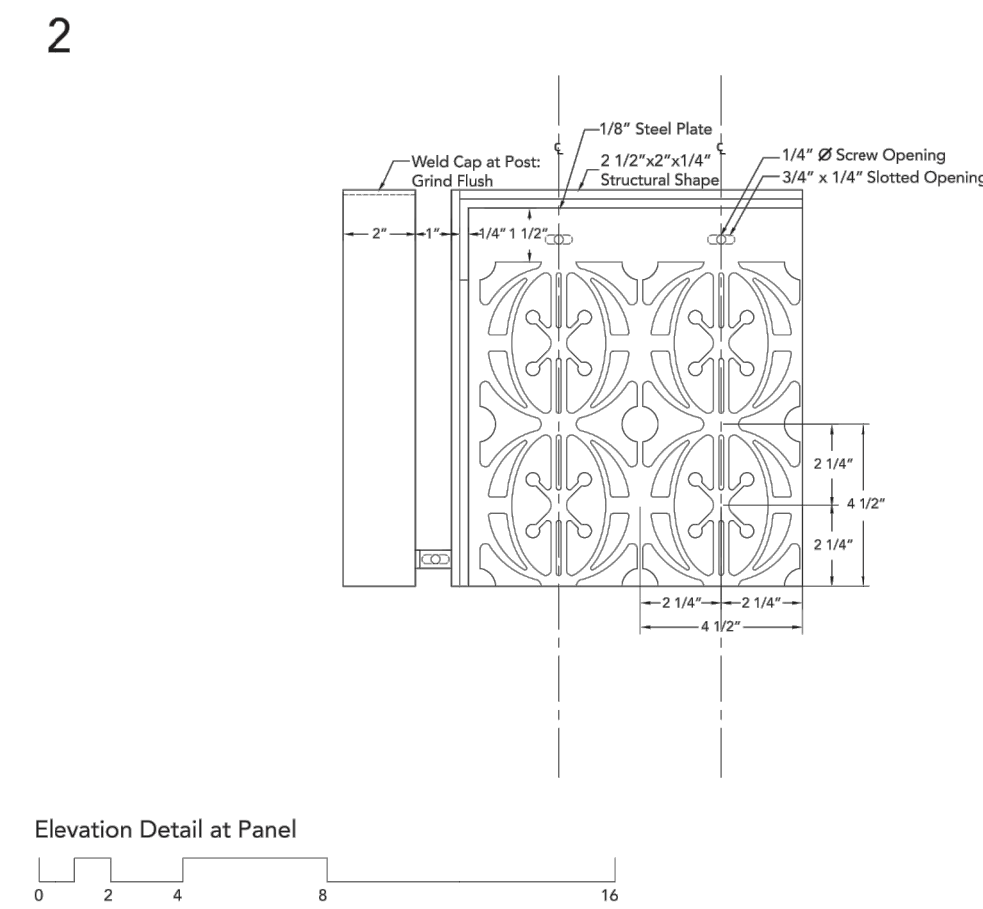
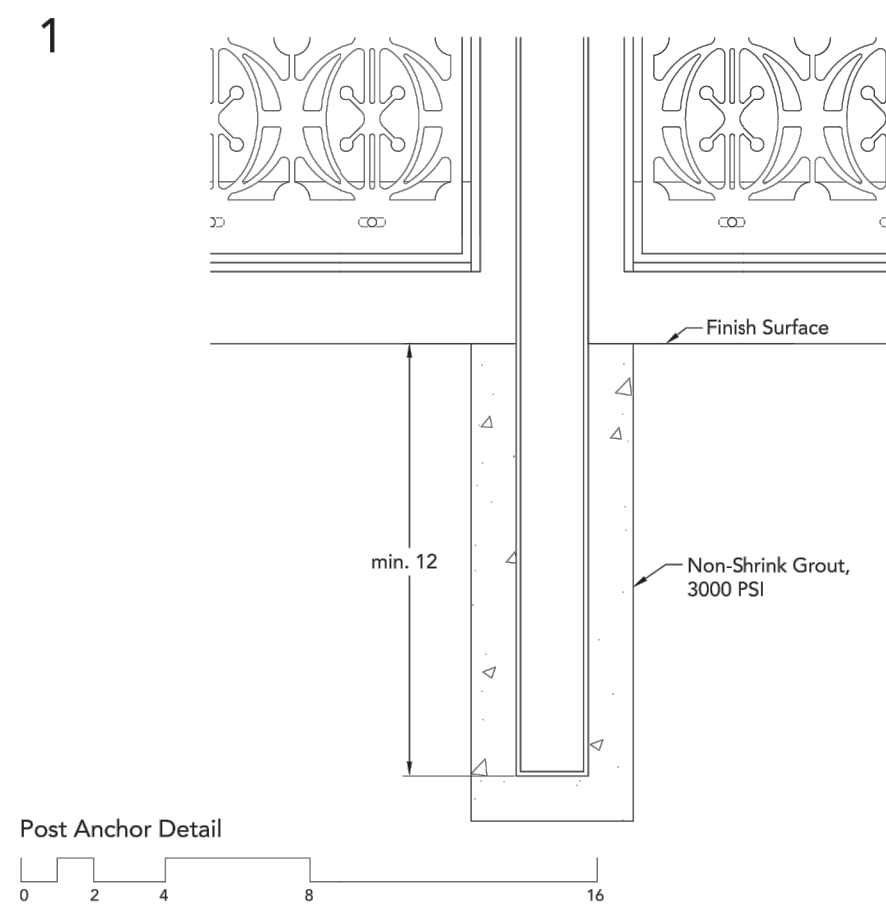
Color: RAL 9007



STREETSCAPE DESIGN STANDARDS | CITY OF BROOKHAVEN | AUGUST 28, 2018

ST-03

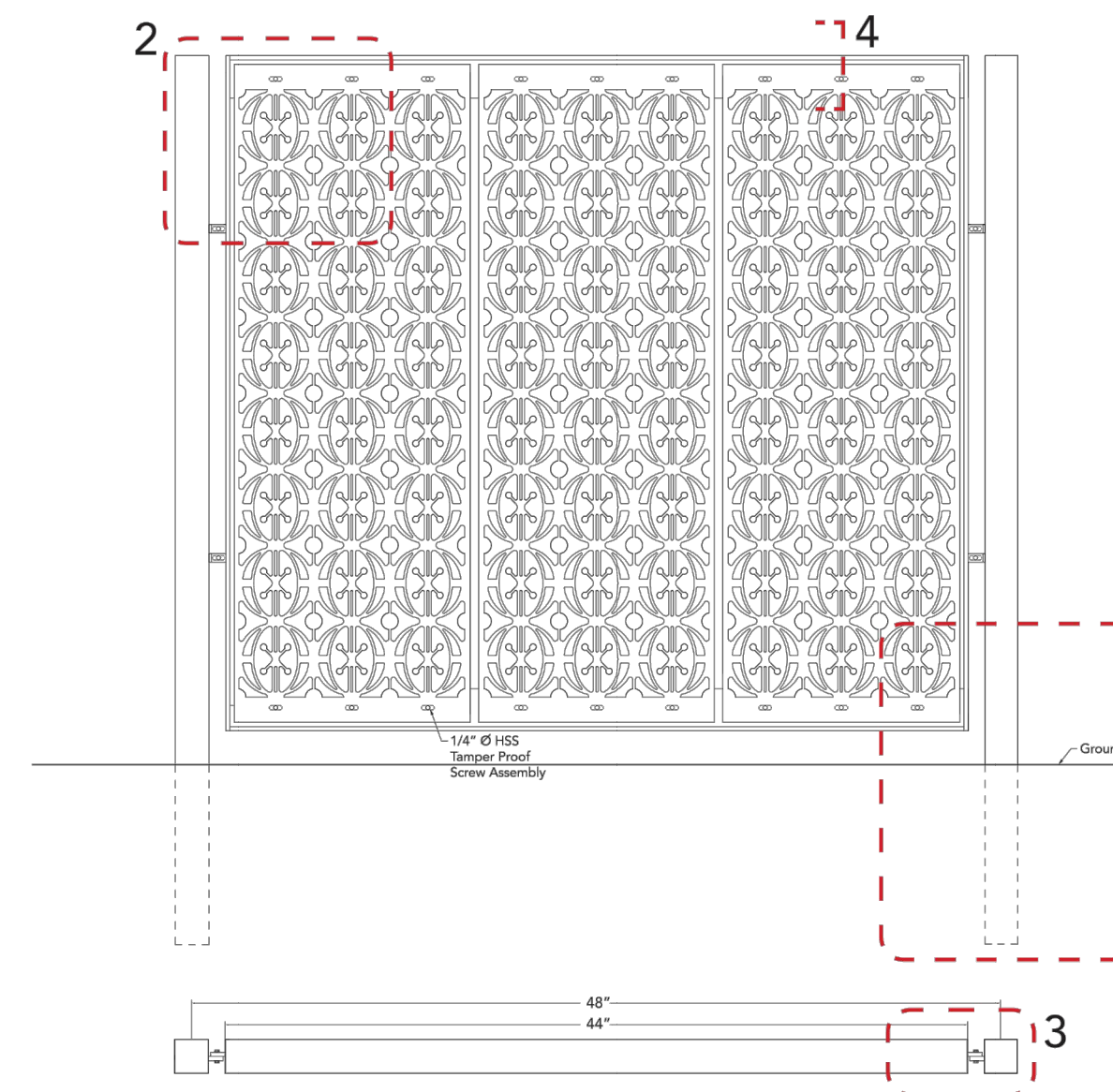
1 CITY OF BROOKHAVEN STANDARD RAILING DETAIL
38-0003 SCALE: 1/4" = 1'-0"



STREETSCAPE DESIGN STANDARDS | CITY OF BROOKHAVEN | AUGUST 28, 2018

ST-03

3 CITY OF BROOKHAVEN STANDARD RAILING - PANEL ENLARGEMENT DETAIL
38-0003 SCALE: 1/4" = 1'-0"



Typical Bay Elevation
0 2 4 8 16

Typical Bay Plan
0 2 4 8 16

STREETSCAPE DESIGN STANDARDS | CITY OF BROOKHAVEN | AUGUST 28, 2018

ST-03

2 CITY OF BROOKHAVEN STANDARD RAILING - PANEL DETAIL
38-0003 SCALE: 1/4" = 1'-0"

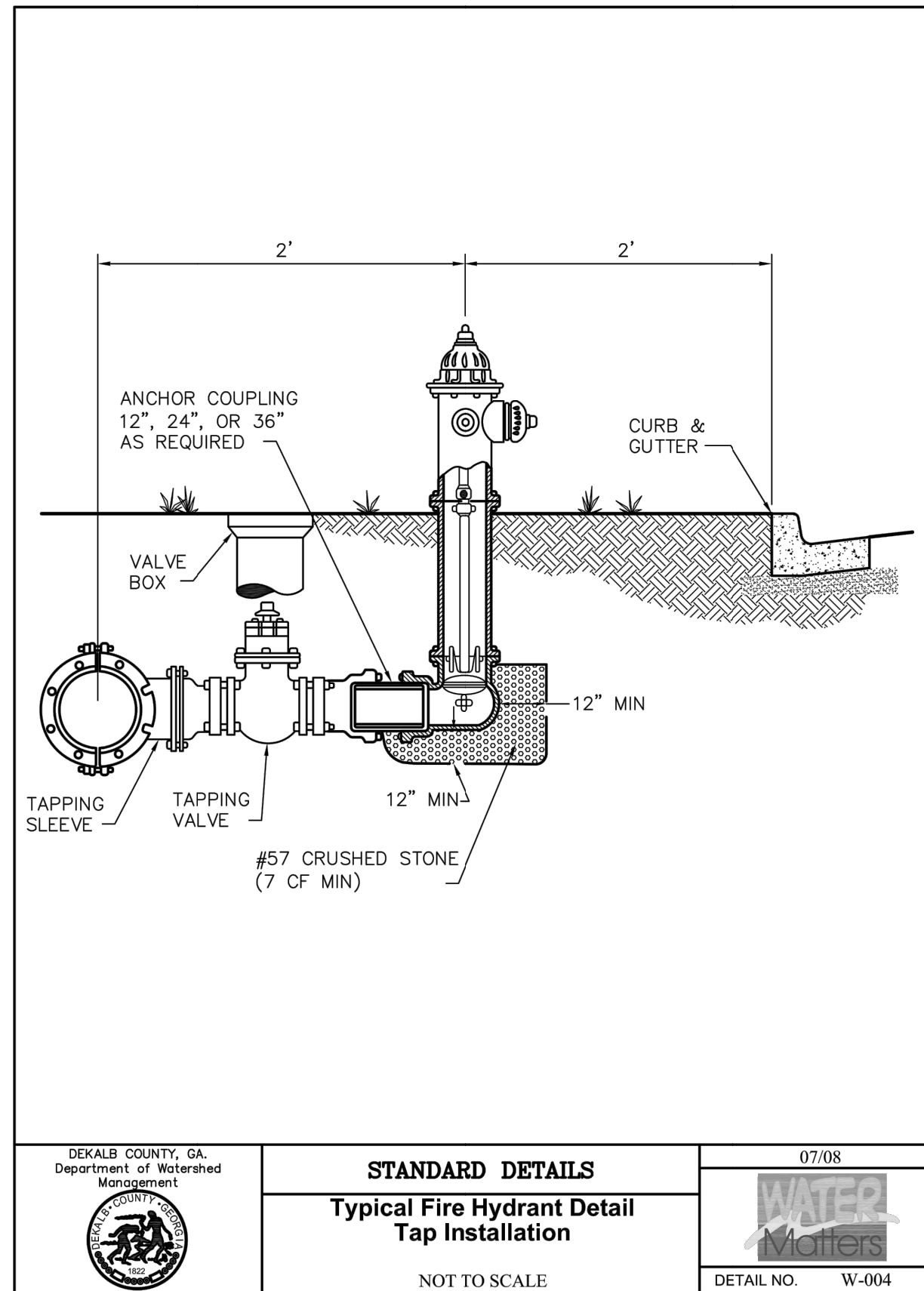


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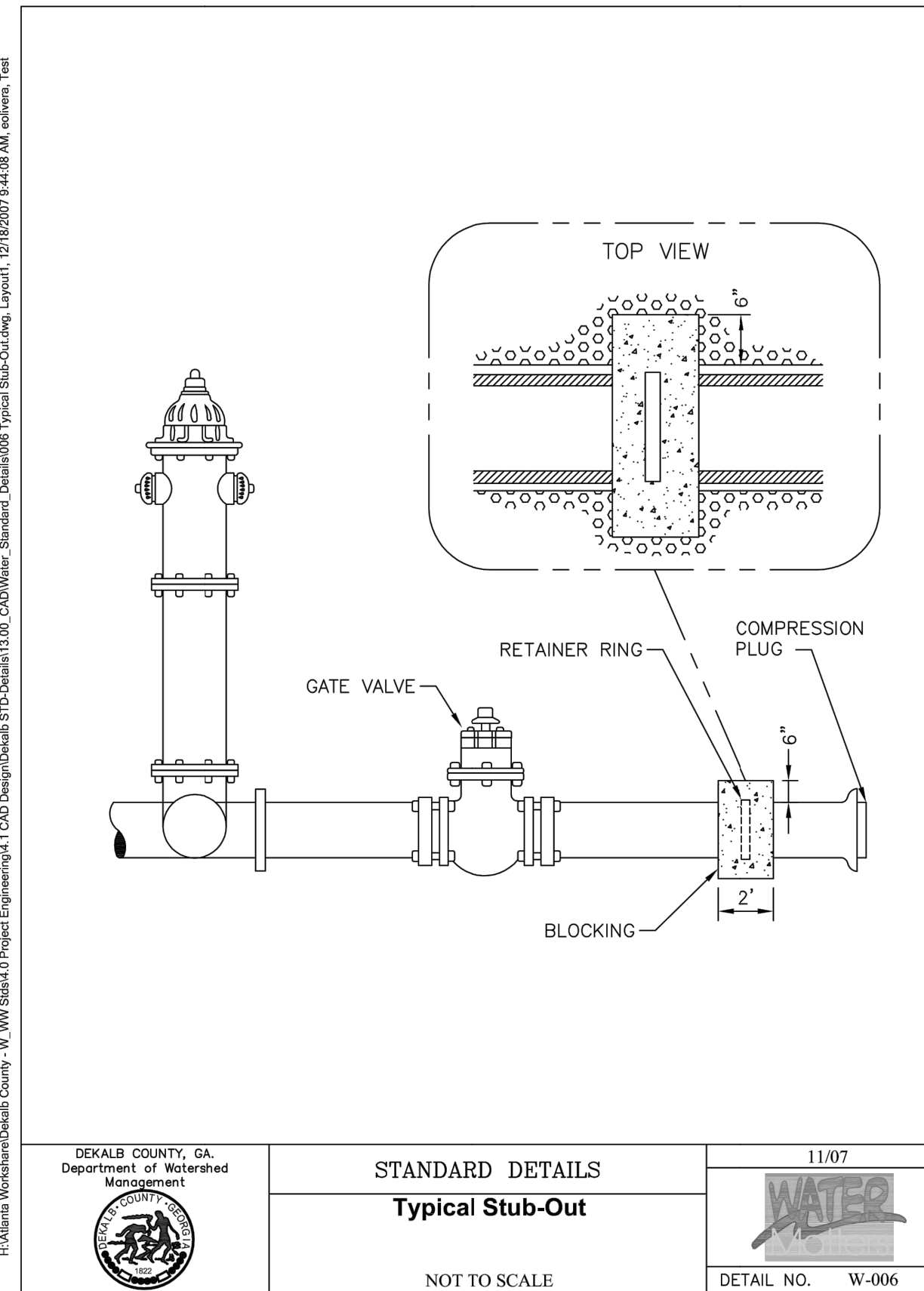
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OFFICE: DISTRICT 7
SPECIAL CONSTRUCTION DETAILS
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No.
38-0003

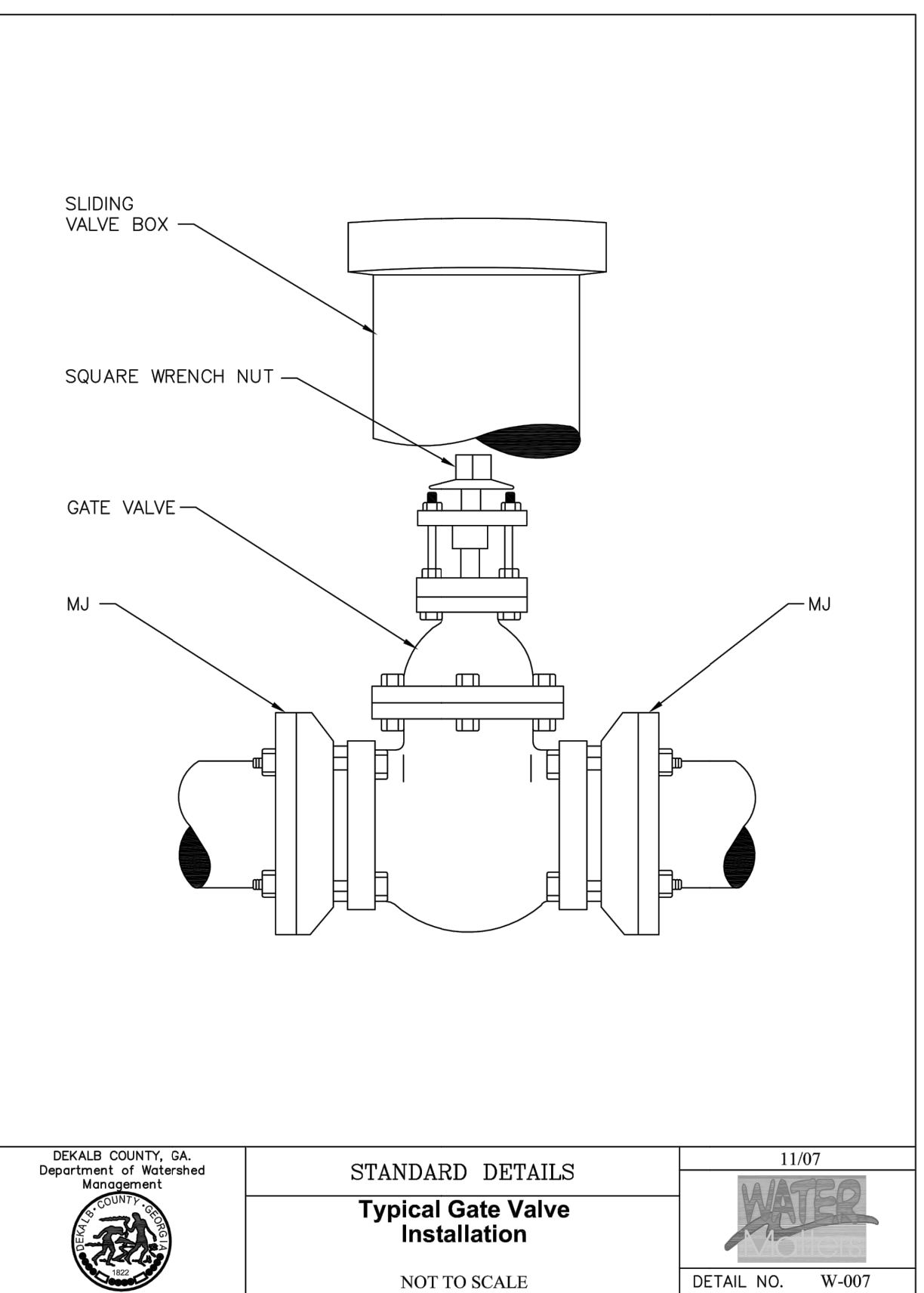


DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Typical Fire Hydrant Tap Installation
NOT TO SCALE
07/08
DETAIL NO. W-004



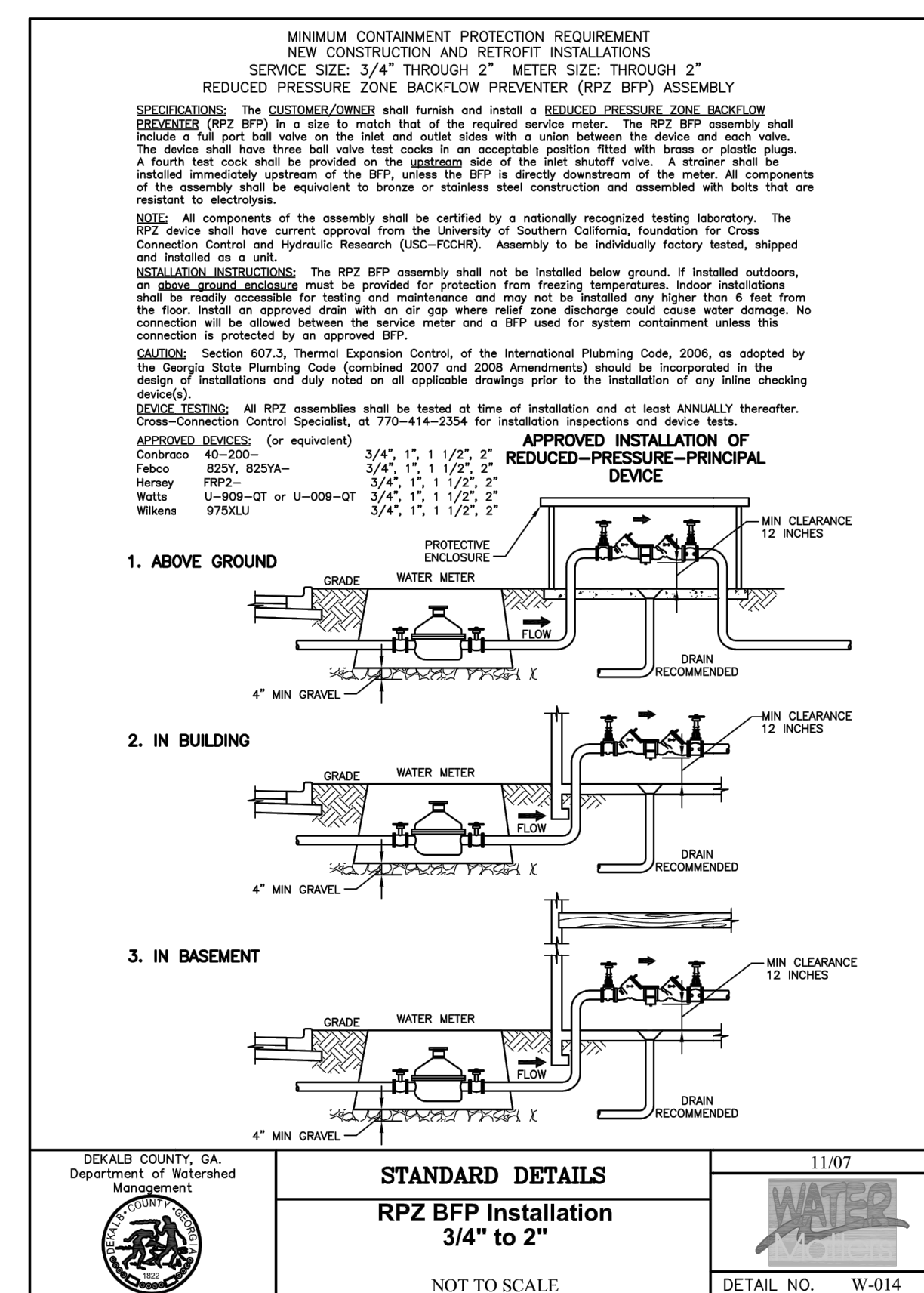
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Typical Stub-Out
NOT TO SCALE
11/07
DETAIL NO. W-006

1 DEKALB COUNTY TYP. FIRE HYDRANT TAP INSTALLTION AND STUB OUT DETAILS
38-0004 NTS



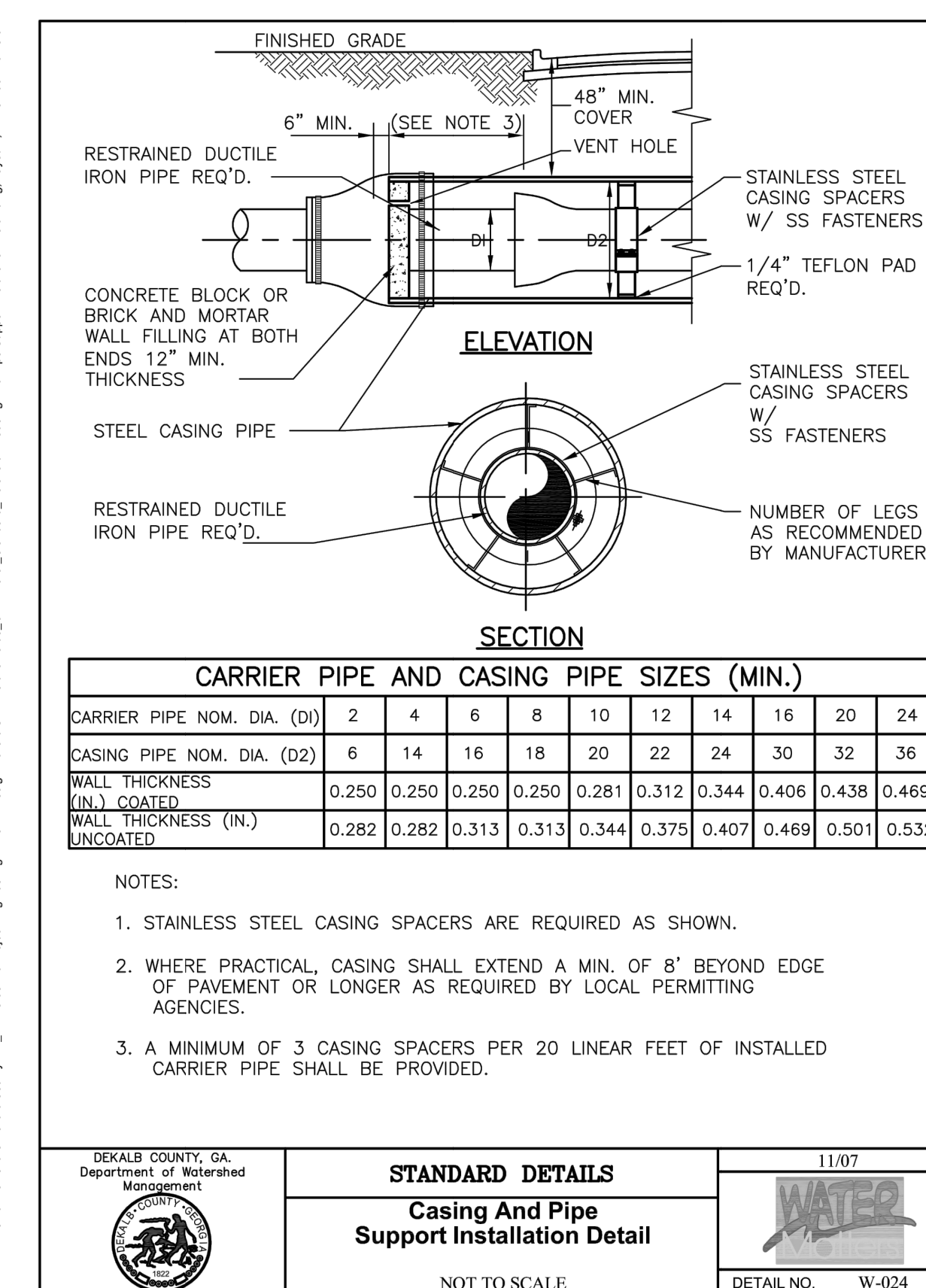
DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Typical Gate Valve Installation
NOT TO SCALE
11/07
DETAIL NO. W-007

2 DEKALB COUNTY TYP. GATE VALVE DETAIL
38-0004 NTS



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
RPZ BFP Installation
3/4" to 2"
NOT TO SCALE
11/07
DETAIL NO. W-014

3 DEKALB COUNTY RPZ BFP INSTALLATION DETAIL
38-0004 NTS



DEKALB COUNTY, GA. Department of Watershed Management
STANDARD DETAILS
Casing and Pipe Support Installation Detail
NOT TO SCALE
11/07
DETAIL NO. W-024

4 DEKALB COUNTY CASING AND PIPE SUPPORT DETAIL
38-0004 NTS



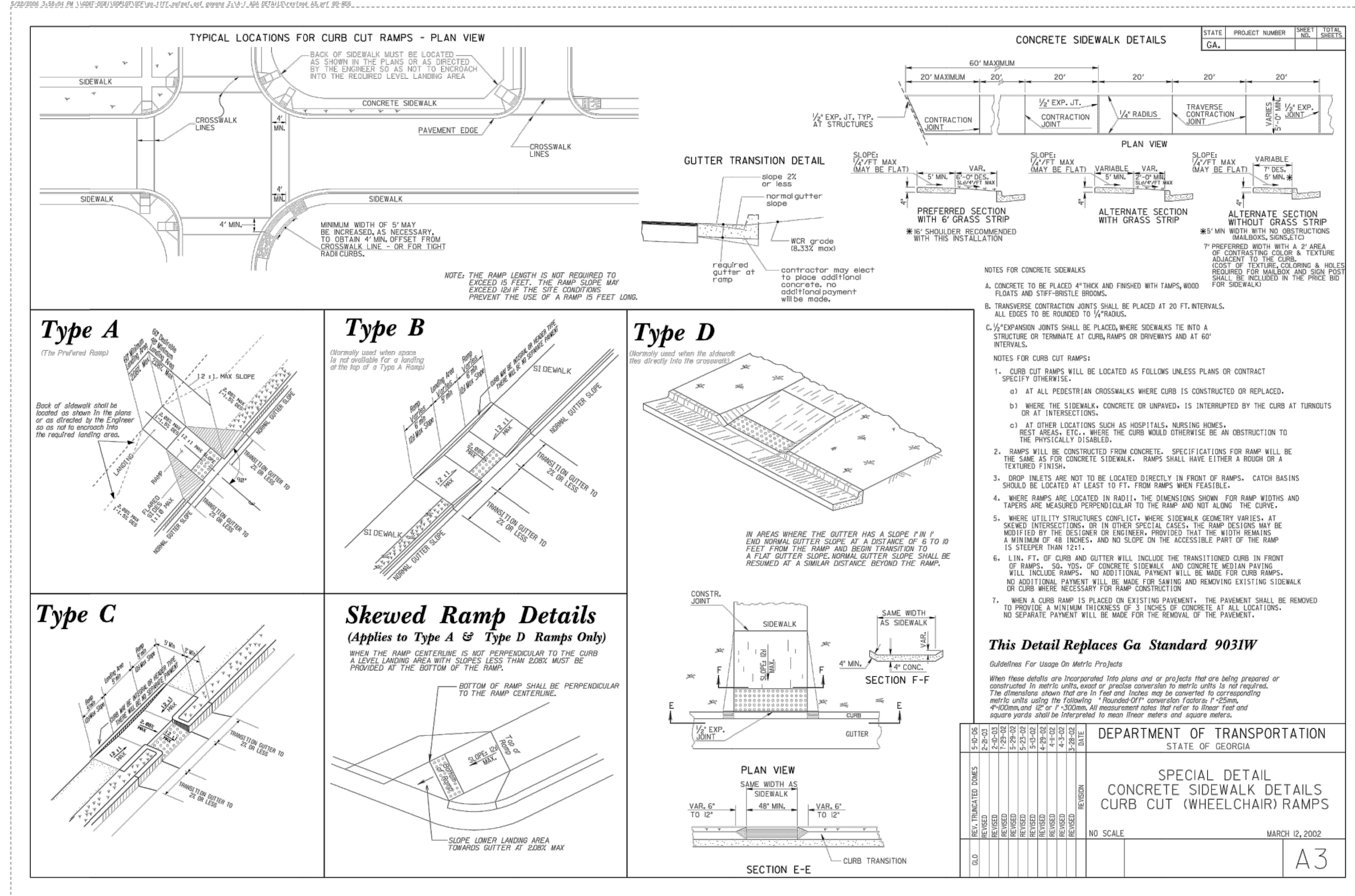
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OFFICE: DISTRICT 7
SPECIAL CONSTRUCTION DETAILS
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
38-0004



1 **GDOT STD. DETAIL - RAMPS**
40-0002 NTS



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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

GDOT STANDARD DETAIL

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
40-0002

- EROSION CONTROL NOTES**
- 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.
 - ALL BMPs WILL BE INSPECTED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL BMPs WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - ALL DISTURBED AREAS MUST BE SEED, FERTILIZED, AND MULCHED AS SOON AS CONSTRUCTION PHASE PERMIT. ALSO, THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION 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.
 - ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES THAT ARE 10' OR GREATER IN HEIGHT & SLOPE OF 3H:1V OR GREATER AS NECESSARY TO RETAIN TOPSOIL. CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES ON DISTURBED SLOPES IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA UNTIL A HEALTHY STAND OF GRASS IS MAINTAINED OVER MORE THAN 70% OF THE DISTURBED AREA AND TO THE SATISFACTION OF THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES, AND MANHOLES OF DEBRIS AND SEDIMENT AT COMPLETION OF THE SITE WORK IN CONFORMANCE WITH ALL STATE AND LOCAL SPECIFICATIONS, AND TO THE SATISFACTION OF THE OWNER.
 - SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171, "SILT FENCE" OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND MEET SPECIFICATIONS FOR TYPE "C" SILT FENCE IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", AND SHALL BE WIRE REINFORCED AS REQUIRED BY THESE SPECIFICATIONS. A DOUBLE ROW MUST BE INSTALLED BETWEEN LAND DISTURBING ACTIVITIES AND STATE WATERS.
 - ALL EARTHWORK OPERATIONS SHOULD BE SCHEDULED IN A MANNER TO MAINTAIN PROPER ROUTING OF STORM WATER THROUGH SEDIMENT CONTROL DEVICES. IF IT IS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES IN AN ORDER THAT IS NOT IN ACCORDANCE WITH THE ACTIVITY SCHEDULE ON THIS PLAN, OR THE CONSTRUCTION SCHEDULE WILL ALLOW FOR DISTURBED AREAS TO BYPASS BEST MANAGEMENT PRACTICES, THE CONTRACTOR IS TO CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH ACTIVITIES AND IMPLEMENT EROSION CONTROL DEVICES THAT WILL CONTROL SEDIMENT, AT THE SATISFACTION OF THE ENGINEER AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
 - DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - LENGTH OF RIPRAP SHALL BE 6 TIMES THE DIAMETER OF THE STORMWATER OUTLET PIPE AT A MINIMUM.
 - FILE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH GA EPD IF REQUIRED.

- NO CONCRETE VEHICLE WASHDOWN OR UNPROTECTED STORAGE OF PETROLEUM PRODUCTS IS ALLOWED ON SITE.
- STORMWATER POLLUTANTS ARE DECREASED ON THIS SITE WITH THE INSTALLATION OF SEDIMENT BARRIERS AND PERMANENT VEGETATIVE COVER. THE VEGETATIVE COVER WILL REMAIN AS A PERMANENT GROUND STABILIZATION MEASURE.
- AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- OWNER TO VERIFY ALL WASTE DISPOSAL, SANITARY SEWER, AND SEPTIC TANK REGULATIONS FOR REMOVAL AND REMEDIATION HAVE BEEN IMPLEMENTED.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- ANY DISTURBED AREA REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED AS NECESSARY.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
- SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION
- THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL MEASURES, NOT THE CITY OF ATLANTA.
- ALL TEMPORARY AND PERMANENT SEEDING SHALL BE PERFORMED IN THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHED VEGETATION IS INAPPROPRIATE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE STABILIZED USING 2" OF MULCH (DS1). ADDITIONAL PLANTS IN WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
- THE CITY INSPECTOR OR DESIGNEE WILL VERIFY ADEQUATE GROUND COVER (100% COVER, 70% DENSITY) OF PERMANENT VEGETATION (DS3, DS4).

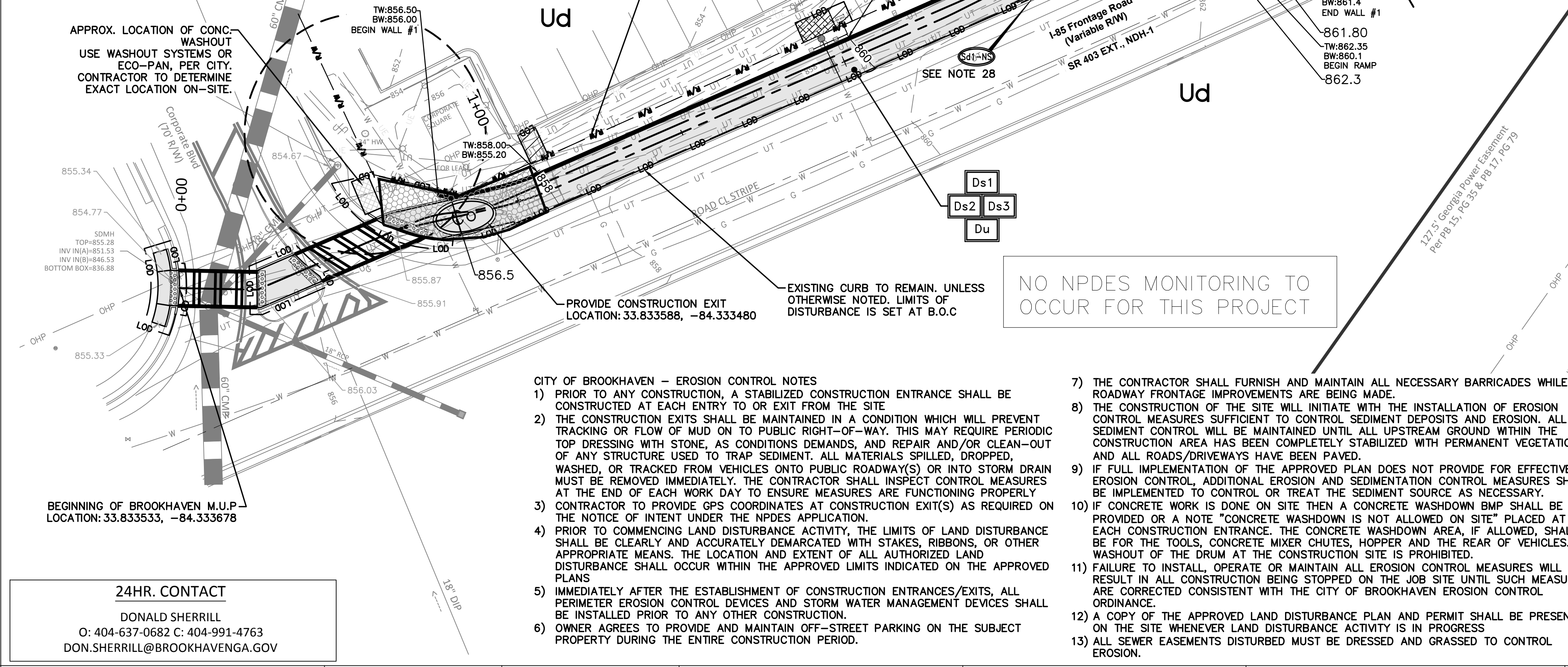
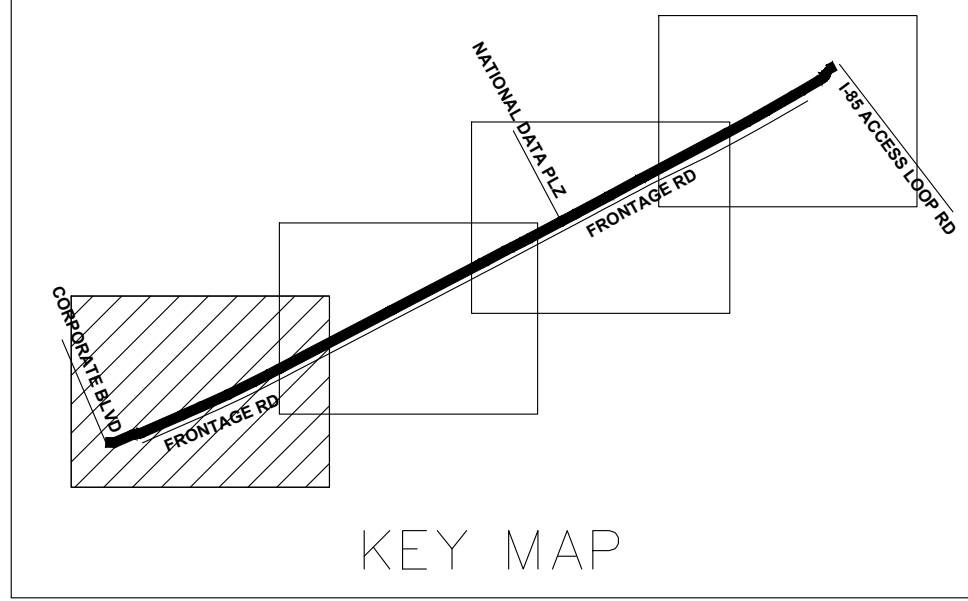
NOTE: SEDIMENT STORAGE IN THE LINEAR PROJECT IS ACCOMPLISHED WITH THE USE OF TYPE NS SILT FENCE INSTALLED ALONG THE DOWNHILL SIDE OF THE ENTIRE DISTURBED LENGTH. NO DISCHARGE FROM PROJECT FLOWS DIRECTLY TOWARD STREAM/BUFFER/STATE WATERS.

SEDIMENT STORAGE REQUIRED: 134 CU. YD./ACRE
134 x 0.7 = 94 CU. YD. STORAGE

TYPE NS FENCE WILL STORE SEIMENT = 1/4 ACRE / 100 L.F. (SOURCE: US EPA, AND GSWCC 2016 EDITION, PAGE 6-137)
0.7 ACRE / 1/4 ACRE = 2.8

2.8 x 100 L.F. FENCE = 280 L.F. REQUIRED
3,382 L.F. OF SILT FENCE PROVIDED

NOTE: INSTALLATION OF A SEDIMENT BASIN IS NOT FEASIBLE FOR THIS PROJECT. THE CORRIDOR IS VERY NARROW, AND THERE IS NOT AN OPPORTUNITY TO INSTALL SEDIMENT BASINS ALONG THE ROUTE WITHOUT CHANNELIZING AREAS THAT WOULD OTHERWISE SHEET FLOW.



SOIL CLASSIFICATION LEGEND

SYMBOL	SOIL TYPE
Ud	URBAN LAND

EXISTING SOIL NOTE: ALL LAND WITHIN THE PROJECT CORRIDOR IS CLASSIFIED AS "URBAN LAND" (Ud) BY THE UNITED STATES DEPARTMENT OF AGRICULTURE'S NATURAL RESOURCES CONSERVATION SERVICES

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Charles M Abbott
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000041686
ISSUED: 04/13/2019 EXPIRES: 04/13/2022

LEGEND

- Co CONSTRUCTION EXIT
- Sd1-NS SEDIMENT BARRIER
- Sd2-P INLET SEDIMENT TRAP "PIGS IN A BLANKET" CMU BLOCKS OR FILTER SOCK
- Ds1 DISTURBED AREA STABILIZATION WITH MULCH
- Ds2 DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING
- Ds3 DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING
- Du DUST CONTROL

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

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 land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002.

Charles M. Abbott
FOR THE FIRM - KAIZEN COLLABORATIVE DATE 01-11-2021
CHARLES M. ABBOTT JR.
GSWCC LEVEL II #0000041686

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. The Plan shall include, as a minimum, 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 Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted and O.C.G.A. 12-7-6, as well as the following:

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FOR THE FIRM - KAIZEN COLLABORATIVE DATE 01-11-2021
CHARLES M. ABBOTT JR.
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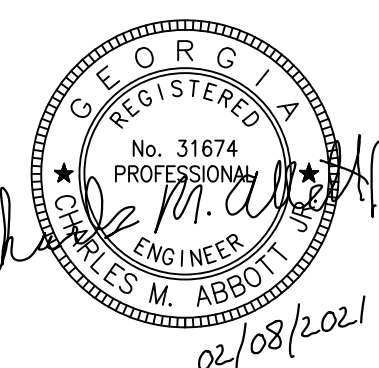
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Charles M. Abbott
FOR THE FIRM - KAIZEN COLLABORATIVE DATE 01-11-2021
CHARLES M. ABBOTT JR.
GSWCC LEVEL II #0000041686

PRE-CONSTRUCTION RUNOFF COEFFICIENT: 0.6
POST-CONSTRUCTION RUNOFF COEFFICIENT: 0.8
SEE SOIL DATA CHART ON SHEET N/A

RECEIVING WATER: PEACHTREE CREEK NORTH FORK
AREA OF WETLANDS: 0.0 AC.

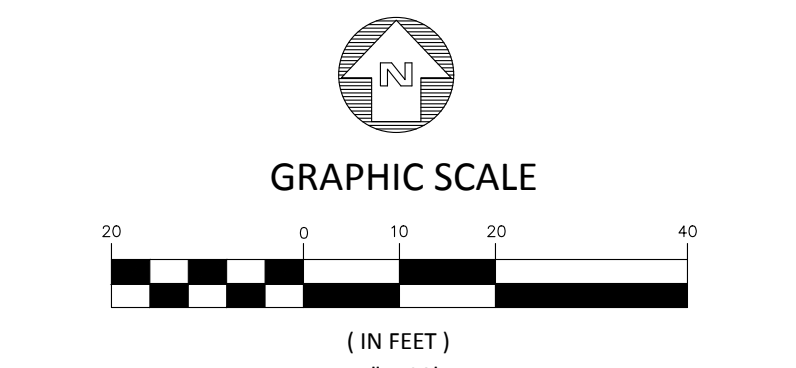
TOTAL ACREAGE = 0.7 AC
DISTURBED ACREAGE = 0.7 AC



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DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

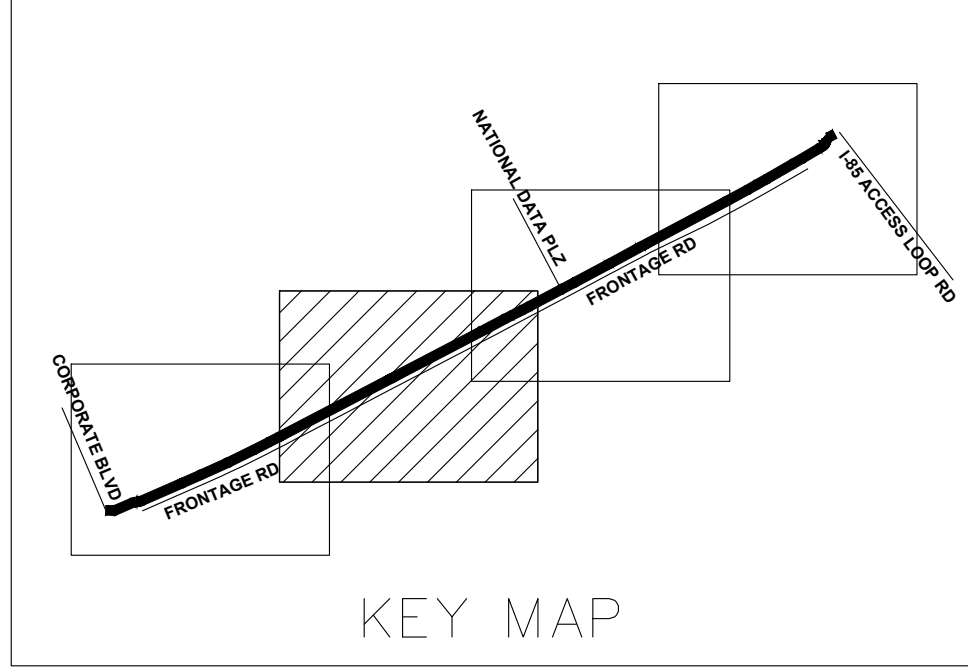
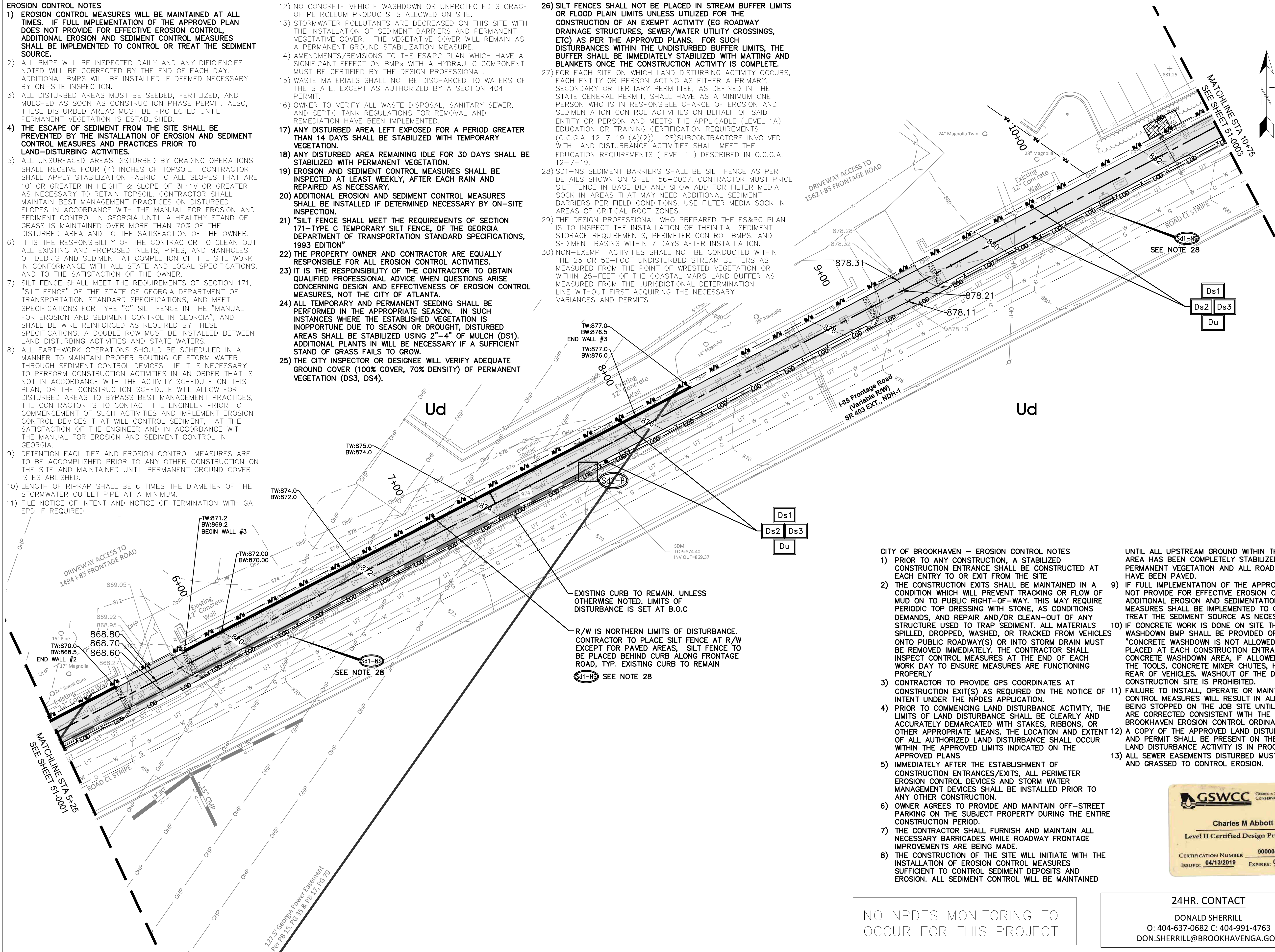
DRAWING No.
51-0001



- EROSION CONTROL NOTES**
- 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.
 - ALL BMPs WILL BE INSPECTED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL BMPs WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - ALL DISTURBED AREAS MUST BE SEEDED, FERTILIZED, AND MULCHED AS SOON AS CONSTRUCTION PHASE PERMIT. ALSO, THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION 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.
 - ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES THAT ARE 10' OR GREATER IN HEIGHT & SLOPE OF 3H:1V OR GREATER AS NECESSARY TO RETAIN TOPSOIL. CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES ON DISTURBED SLOPES IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA UNTIL A HEALTHY STAND OF GRASS IS MAINTAINED OVER MORE THAN 70% OF THE DISTURBED AREA AND TO THE SATISFACTION OF THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES, AND MANHOLES OF DEBRIS AND SEDIMENT AT COMPLETION OF THE SITE WORK IN CONFORMANCE WITH ALL STATE AND LOCAL SPECIFICATIONS, AND TO THE SATISFACTION OF THE OWNER.
 - SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171, "SILT FENCE" OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND MEET SPECIFICATIONS FOR TYPE "C" SILT FENCE IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", AND SHALL BE WIRE REINFORCED AS REQUIRED BY THESE SPECIFICATIONS. A DOUBLE ROW MUST BE INSTALLED BETWEEN LAND DISTURBING ACTIVITIES AND STATE WATERS.
 - ALL EARTHWORK OPERATIONS SHOULD BE SCHEDULED IN A MANNER TO MAINTAIN PROPER ROUTING OF STORM WATER THROUGH SEDIMENT CONTROL DEVICES. IF IT IS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES IN AN ORDER THAT IS NOT IN ACCORDANCE WITH THE ACTIVITY SCHEDULE ON THIS PLAN, OR THE CONSTRUCTION SCHEDULE WILL ALLOW FOR DISTURBED AREAS TO BYPASS BEST MANAGEMENT PRACTICES, THE CONTRACTOR IS TO CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH ACTIVITIES AND IMPLEMENT EROSION CONTROL DEVICES THAT WILL CONTROL SEDIMENT, AT THE SATISFACTION OF THE ENGINEER AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
 - DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
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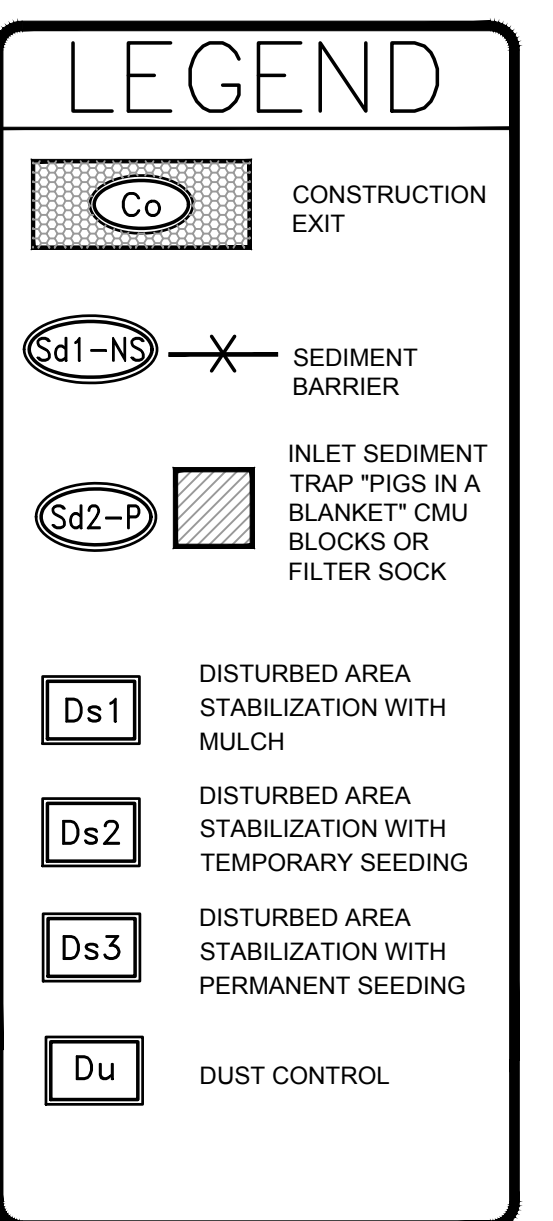
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- THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL MEASURES, NOT THE CITY OF ATLANTA.
- ALL TEMPORARY AND PERMANENT SEEDING SHALL BE PERFORMED IN THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHED VEGETATION IS INOPPORTUNE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE STABILIZED USING "2-4" OF MULCH (DS1). ADDITIONAL PLANTS IN WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
- THE CITY INSPECTOR OR DESIGNEE WILL VERIFY ADEQUATE GROUND COVER (100% COVER, 70% DENSITY) OF PERMANENT VEGETATION (DS3, DS4).

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- FOR EACH SITE ON WHICH LAND DISTURBING ACTIVITY OCCURS, EACH ENTITY OR PERSON ACTING AS EITHER A PRIMARY, SECONDARY OR TERTIARY PERMITTEE, AS DEFINED IN THE STATE GENERAL PERMIT, SHALL HAVE AS A MINIMUM ONE PERSON WHO IS IN RESPONSIBLE CHARGE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES ON BEHALF OF SAID ENTITY OR PERSON AND MEETS THE APPLICABLE (LEVEL 1A) EDUCATION OR TRAINING CERTIFICATION REQUIREMENTS (O.C.G.A. 12-7-19 (A)(2)). 28) SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A. 12-7-19.
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- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION.
- 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.



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 - THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY(S) OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
 - CONTRACTOR TO PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT(S) AS REQUIRED ON THE NOTICE OF INTENT UNDER THE NPDES APPLICATION.
 - 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 LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
 - OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
 - THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED

- UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
- IF CONCRETE WORK IS DONE ON SITE THEN A CONCRETE WASHDOWN BMP SHALL BE PROVIDED OR A NOTE "CONCRETE WASHDOWN IS NOT ALLOWED ON SITE" PLACED AT EACH CONSTRUCTION ENTRANCE. THE CONCRETE WASHDOWN AREA, IF ALLOWED, SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPER AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS
- ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.



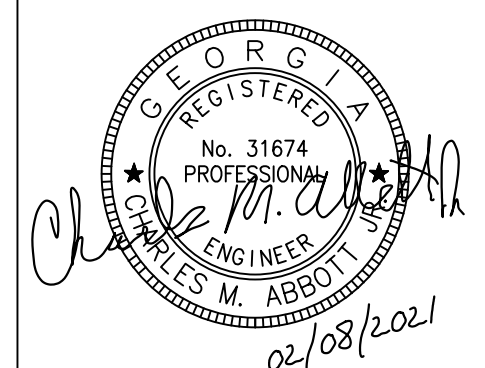
EXISTING SOIL NOTE: ALL LAND WITHIN THE PROJECT CORRIDOR IS CLASSIFIED AS "URBAN LAND" (Ud) BY THE UNITED STATES DEPARTMENT OF AGRICULTURE'S NATURAL RESOURCES CONSERVATION SERVICES

TOTAL ACREAGE = 0.7 AC
DISTURBED ACREAGE = 0.7 AC

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

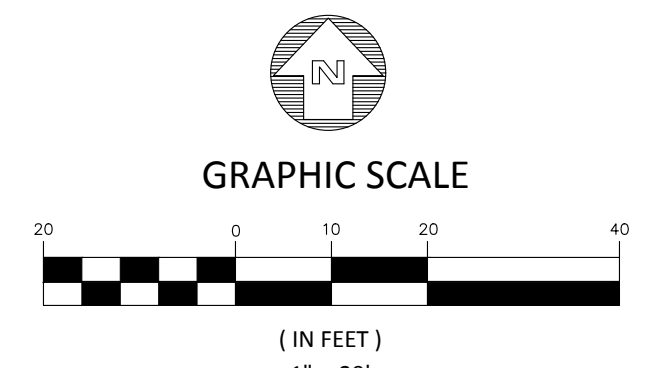
24HR. CONTACT
DONALD SHERRILL
O: 404-637-0682 C: 404-991-4763
DON.SHERRILL@BROOKHAVENGA.GOV

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
Charles M Abbott
Level II Certified Design Professional
CERTIFICATION NUMBER 0000041686
ISSUED: 04/13/2019 EXPIRES: 04/13/2022



PLANS PREPARED BY:
KAIZEN COLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521
CHARLES M. ABBOTT JR, P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
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CITY OF BROOKHAVEN
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REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

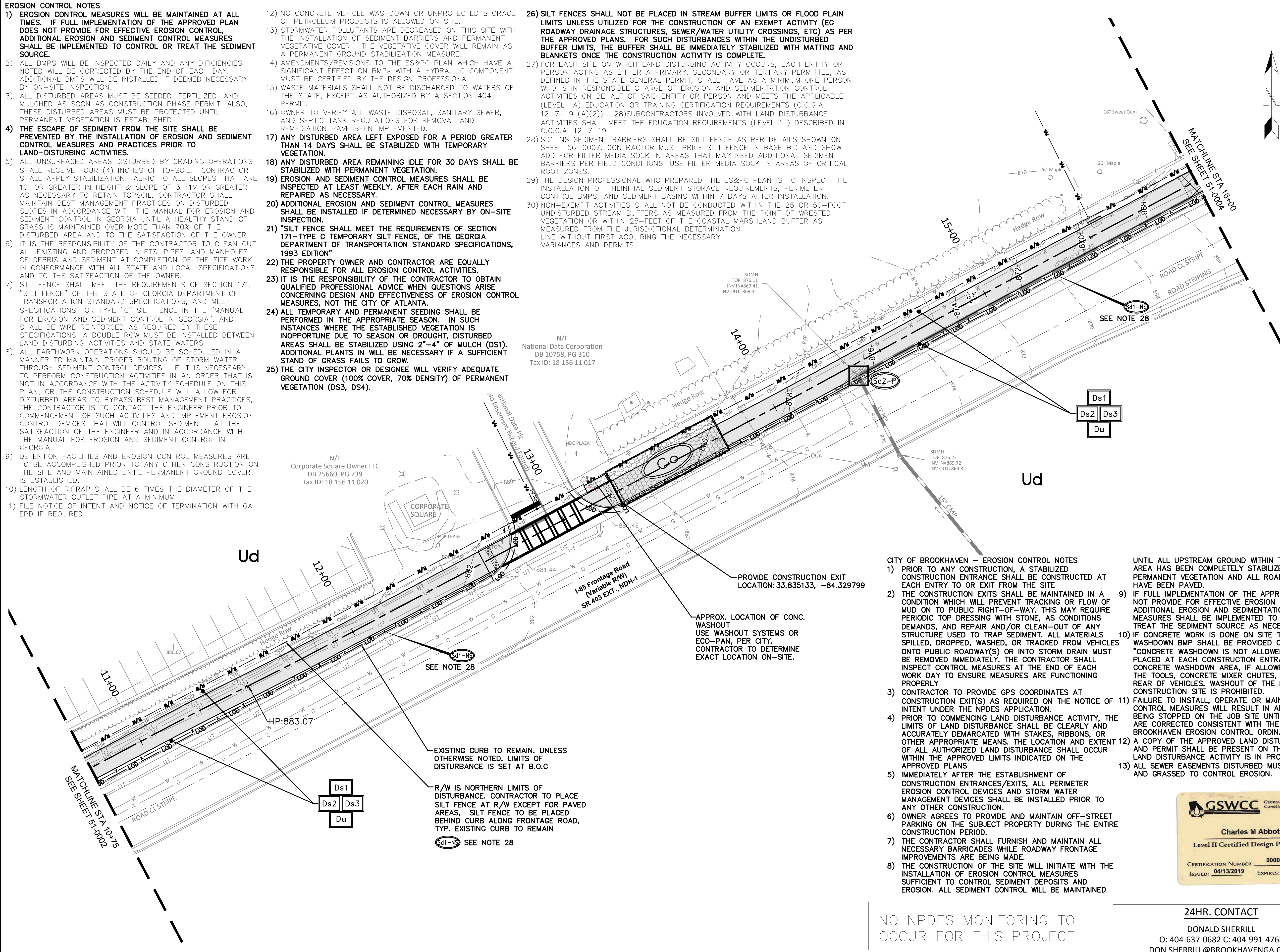
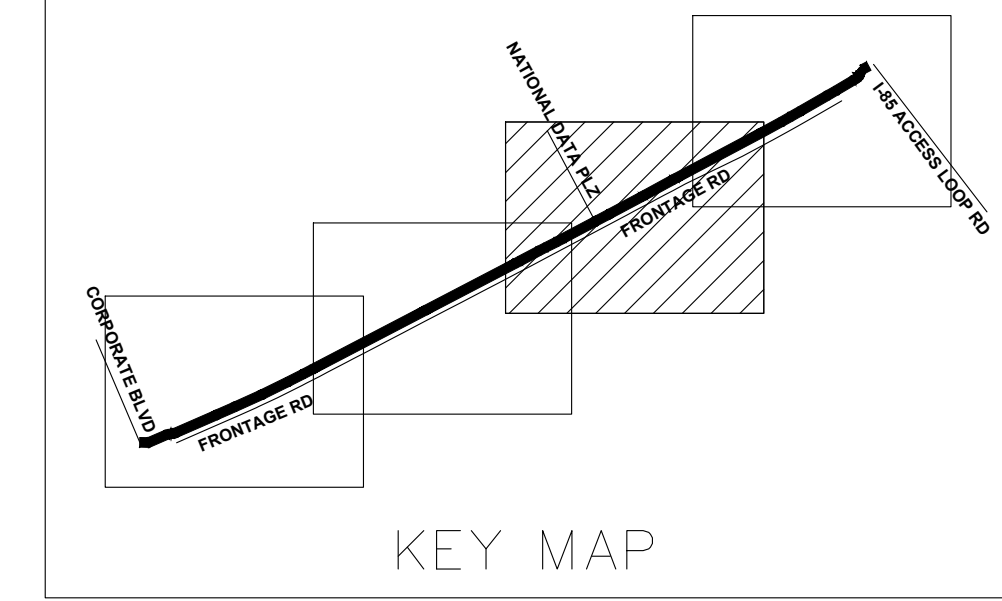
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
N.E. EXPRESSWAY FRONTAGE ROAD
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DRAWING No. 51-0002

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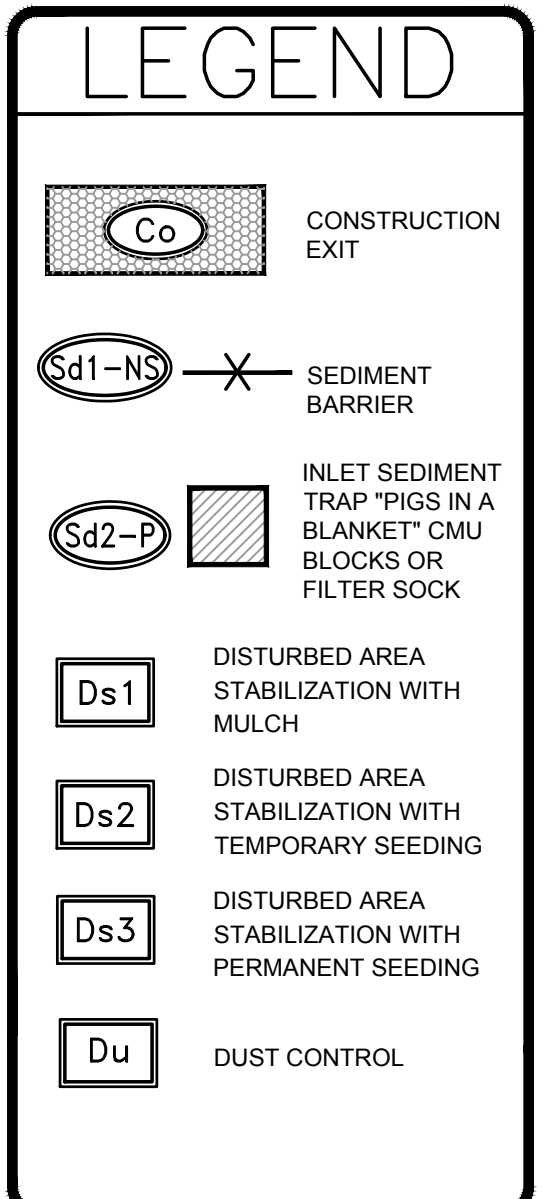
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 - 12) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS
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UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Charles M Abbott
Level II Certified Design Professional

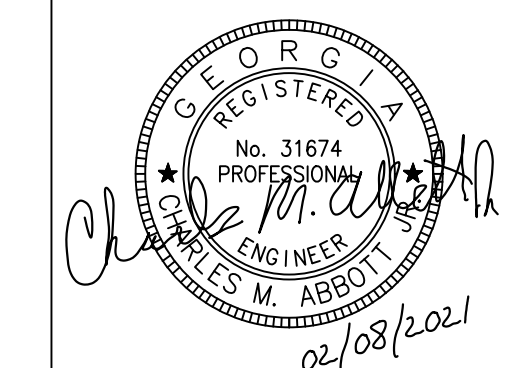
CERTIFICATION NUMBER: 0000041686
ISSUED: 04/13/2019 EXPIRES: 04/13/2022

24HR. CONTACT
DONALD SHERRILL
O: 404-637-0682 C: 404-991-4763
DON.SHERRILL@BROOKHAVENGA.GOV

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

EXISTING SOIL NOTE: ALL LAND WITHIN THE PROJECT CORRIDOR IS CLASSIFIED AS "URBAN LAND" (Ud) BY THE UNITED STATES DEPARTMENT OF AGRICULTURE'S NATURAL RESOURCES CONSERVATION SERVICES

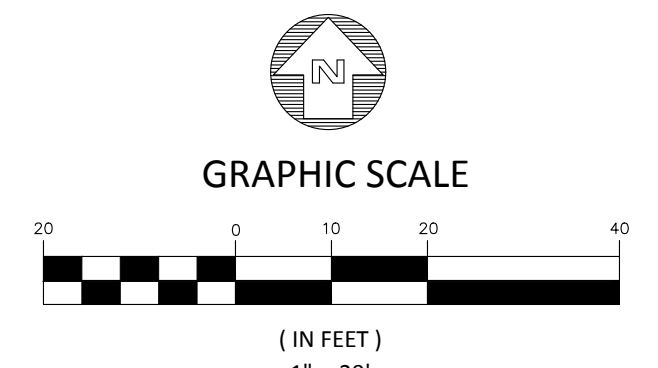
TOTAL ACREAGE = 0.7 AC
DISTURBED ACREAGE = 0.7 AC



PLANS PREPARED BY:
KAIZENCOLLABORATIVE
2390 Main Street | Tucker, GA 30084 | 404.239.2521

CHARLES M. ABBOTT JR., P.E.
DESIGN ENGINEER LEVEL II CERTIFICATION
GSWCC # 0000041686 EXPIRES: 04/13/2022
CHUCK.ABBOTT@KAIZENCOLLABORATIVE.COM
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS DEPUTY DIRECTOR
4362 PEACHTREE RD., BROOKHAVEN, GA 30319
E: DON.SHERRILL@BROOKHAVENGA.GOV
O: 404-991-4763 C: 404-637-0682



REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

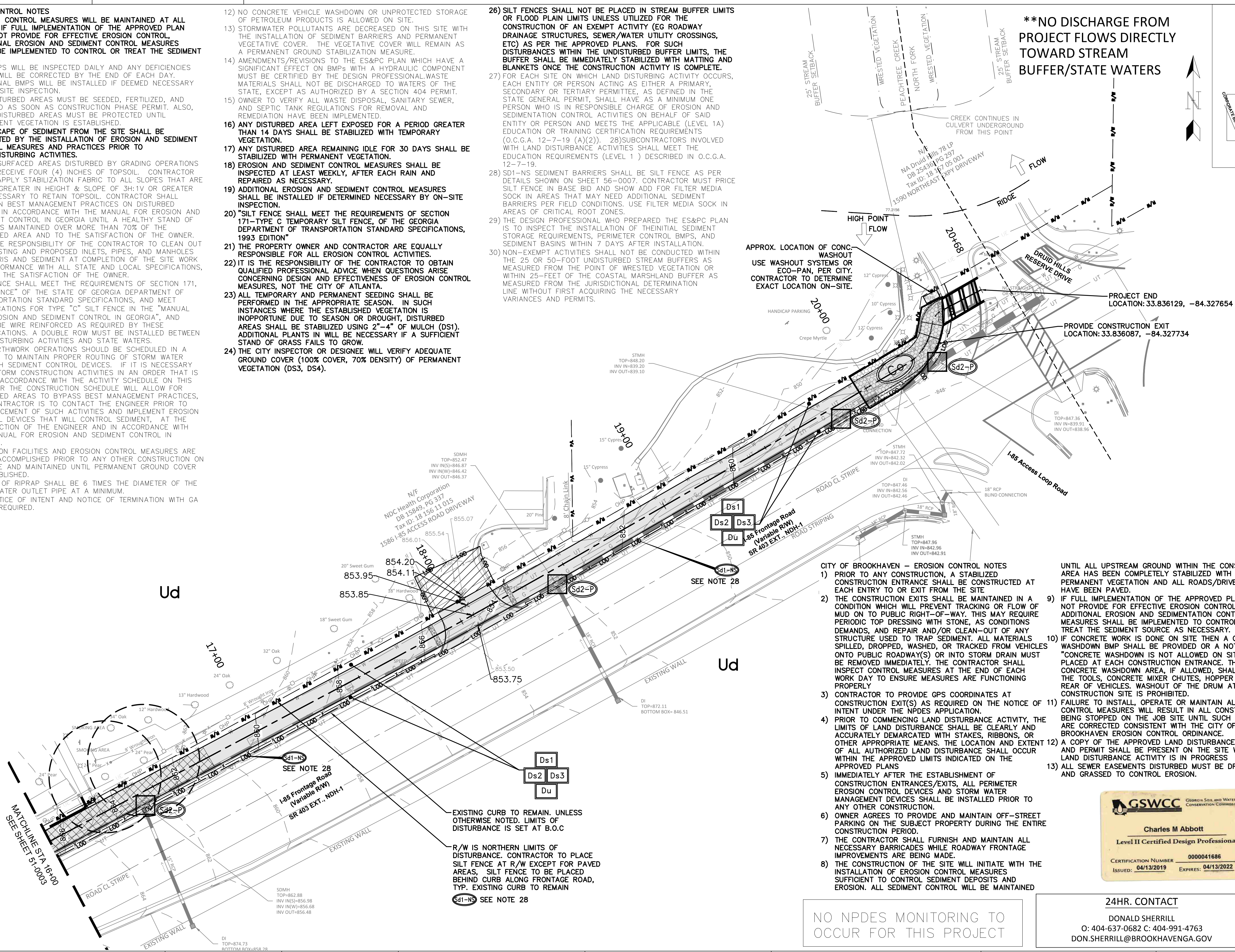
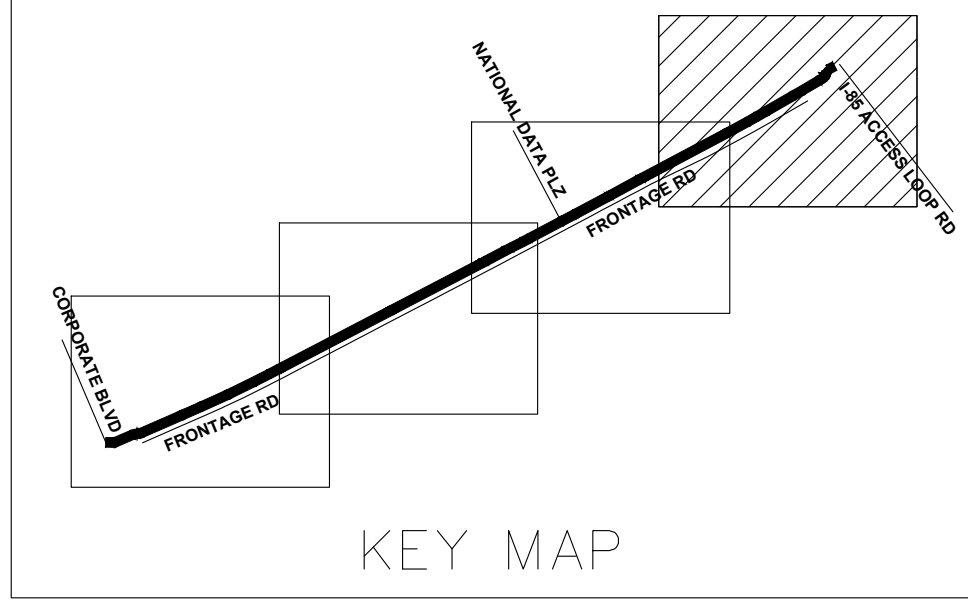
DRAWING No. 51-0003

- EROSION CONTROL NOTES**
- 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.
 - 2) ALL BMPs WILL BE INSPECTED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL BMPs WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - 3) ALL DISTURBED AREAS MUST BE SEED, FERTILIZED, AND MULCHED AS SOON AS CONSTRUCTION PHASE PERMIT. ALSO, THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
 - 4) 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.
 - 5) ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES THAT ARE 10' OR GREATER IN HEIGHT & SLOPE OF 3H:1V OR GREATER AS NECESSARY TO RETAIN TOPSOIL. CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES ON DISTURBED SLOPES IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA UNTIL A HEALTHY STAND OF GRASS IS MAINTAINED OVER MORE THAN 70% OF THE DISTURBED AREA AND TO THE SATISFACTION OF THE OWNER.
 - 6) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES, AND MANHOLES OF DEBRIS AND SEDIMENT AT COMPLETION OF THE SITE WORK IN CONFORMANCE WITH ALL STATE AND LOCAL SPECIFICATIONS, AND TO THE SATISFACTION OF THE OWNER.
 - 7) SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171, "SILT FENCE" OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND MEET SPECIFICATIONS FOR TYPE "C" SILT FENCE IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", AND SHALL BE WIRE REINFORCED AS REQUIRED BY THESE SPECIFICATIONS. A DOUBLE ROW MUST BE INSTALLED BETWEEN LAND DISTURBING ACTIVITIES AND STATE WATERS.
 - 8) ALL EARTHWORK OPERATIONS SHOULD BE SCHEDULED IN A MANNER TO MAINTAIN PROPER ROUTING OF STORM WATER THROUGH SEDIMENT CONTROL DEVICES. IF IT IS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES IN AN ORDER THAT IS NOT IN ACCORDANCE WITH THE ACTIVITY SCHEDULE ON THIS PLAN, OR THE CONSTRUCTION SCHEDULE WILL ALLOW FOR DISTURBED AREAS TO BYPASS BEST MANAGEMENT PRACTICES, THE CONTRACTOR IS TO CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH ACTIVITIES AND IMPLEMENT EROSION CONTROL DEVICES THAT WILL CONTROL SEDIMENT, AT THE SATISFACTION OF THE ENGINEER AND IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
 - 9) DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - 10) LENGTH OF RIPRAP SHALL BE 6 TIMES THE DIAMETER OF THE STORMWATER OUTLET PIPE AT A MINIMUM.
 - 11) FILE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH GA EPD IF REQUIRED.

- 12) NO CONCRETE VEHICLE WASHDOWN OR UNPROTECTED STORAGE OF PETROLEUM PRODUCTS IS ALLOWED ON SITE.
- 13) STORMWATER POLLUTANTS ARE DECREASED ON THIS SITE WITH THE INSTALLATION OF SEDIMENT BARRIERS AND PERMANENT VEGETATIVE COVER. THE VEGETATIVE COVER WILL REMAIN AS A PERMANENT GROUND STABILIZATION MEASURE.
- 14) AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 15) OWNER TO VERIFY ALL WASTE DISPOSAL, SANITARY SEWER, AND SEPTIC TANK REGULATIONS FOR REMOVAL AND REMEDIATION HAVE BEEN IMPLEMENTED.
- 16) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- 17) ANY DISTURBED AREA REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.
- 18) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED AS NECESSARY.
- 19) ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
- 20) "SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION"
- 21) THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.
- 22) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL MEASURES, NOT THE CITY OF ATLANTA.
- 23) ALL TEMPORARY AND PERMANENT SEEDING SHALL BE PERFORMED IN THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHED VEGETATION IS INOPPORTUNE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE STABILIZED USING 2"-4" OF MULCH (DS1). ADDITIONAL PLANTS IN W/BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
- 24) THE CITY INSPECTOR OR DESIGNEE WILL VERIFY ADEQUATE GROUND COVER (100% COVER, 70% DENSITY) OF PERMANENT VEGETATION (DS3, DS4).

- 26) SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFER LIMITS OR FLOOD PLAIN LIMITS UNLESS UTILIZED FOR THE CONSTRUCTION OF AN EXEMPT ACTIVITY (EG ROADWAY DRAINAGE STRUCTURES, SEWER/WATER UTILITY CROSSINGS, ETC) AS PER THE APPROVED PLANS. FOR SUCH DISTURBANCES WITHIN THE UNDISTURBED BUFFER LIMITS, THE BUFFER SHALL BE IMMEDIATELY STABILIZED WITH MATTING AND BLANKETS ONCE THE CONSTRUCTION ACTIVITY IS COMPLETE.
- 27) FOR EACH SITE ON WHICH LAND DISTURBING ACTIVITY OCCURS, EACH ENTITY OR PERSON ACTING AS EITHER A PRIMARY, SECONDARY OR TERTIARY PERMITTEE, AS DEFINED IN THE STATE GENERAL PERMIT, SHALL HAVE AS A MINIMUM ONE PERSON WHO IS IN RESPONSIBLE CHARGE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES ON BEHALF OF SAID ENTITY OR PERSON AND MEETS THE APPLICABLE (LEVEL 1A) EDUCATION OR TRAINING CERTIFICATION REQUIREMENTS (O.C.G.A. 12-7-19 (A)(2)). 28) SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A. 12-7-19.
- 28) SD1-NS SEDIMENT BARRIERS SHALL BE SILT FENCE AS PER DETAILS SHOWN ON SHEET 56-0007. CONTRACTOR MUST PRICE SILT FENCE IN BASE BID AND SHOW ADD FOR FILTER MEDIA SOCK IN AREAS THAT MAY NEED ADDITIONAL SEDIMENT BARRIERS PER FIELD CONDITIONS. USE FILTER MEDIA SOCK IN AREAS OF CRITICAL ROOT ZONES.
- 29) THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION.
- 30) NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

****NO DISCHARGE FROM PROJECT FLOWS DIRECTLY TOWARD STREAM BUFFER/STATE WATERS**



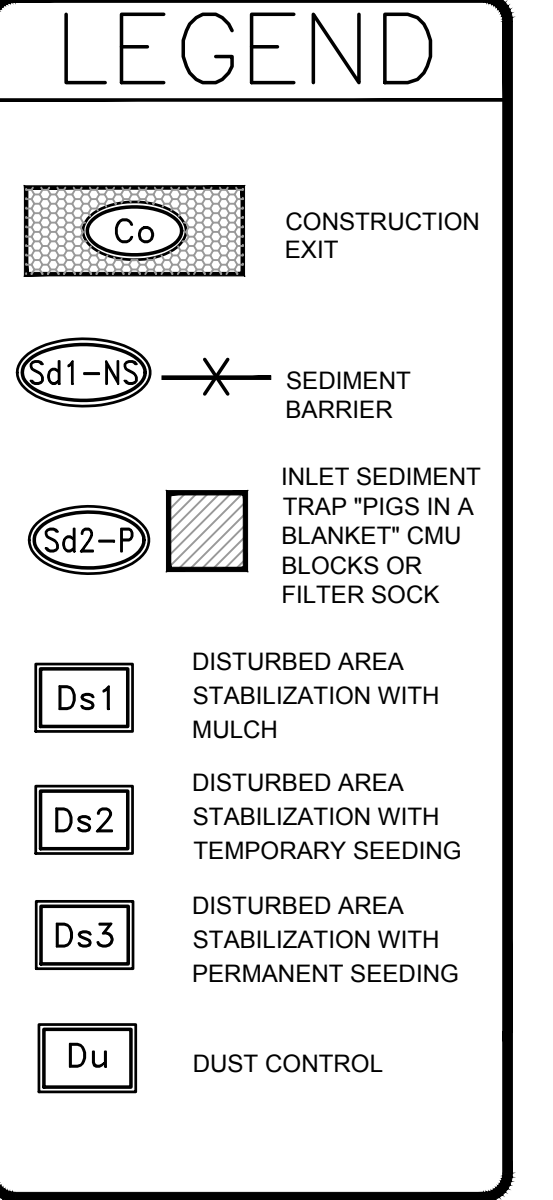
APPROX. LOCATION OF CONC. WASHOUT USE SHALLOU SYSTEMS OR ECO-PAN, PER CITY. CONTRACTOR TO DETERMINE EXACT LOCATION ON-SITE.

PROJECT END LOCATION: 33.836129, -84.327654

PROVIDE CONSTRUCTION EXIT LOCATION: 33.836087, -84.327734

- CITY OF BROOKHAVEN - EROSION CONTROL NOTES**
- 1) PRIOR TO ANY CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
 - 2) THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY(S) OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
 - 3) CONTRACTOR TO PROVIDE GPS COORDINATES AT CONSTRUCTION EXIT(S) AS REQUIRED ON THE NOTICE OF INTENT UNDER THE NPDES APPLICATION.
 - 4) PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
 - 5) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
 - 6) OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - 7) THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
 - 8) THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED
 - 9) IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
 - 10) IF CONCRETE WORK IS DONE ON SITE THEN A CONCRETE WASHDOWN BMP SHALL BE PROVIDED OR A NOTE "CONCRETE WASHDOWN IS NOT ALLOWED ON SITE" PLACED AT EACH CONSTRUCTION ENTRANCE. THE CONCRETE WASHDOWN AREA, IF ALLOWED, SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPER AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
 - 11) FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
 - 12) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS
 - 13) ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.

- UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
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GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Charles M Abbott
Level II Certified Design Professional

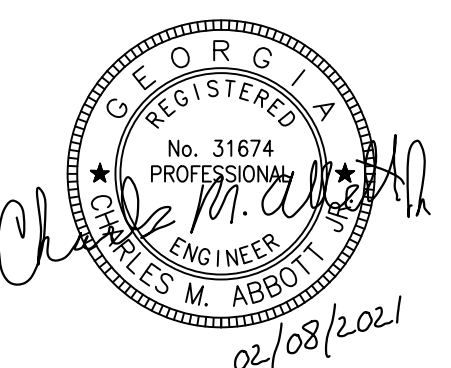
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24HR. CONTACT
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DON.SHERRILL@BROOKHAVENGA.GOV

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

EXISTING SOIL NOTE: ALL LAND WITHIN THE PROJECT CORRIDOR IS CLASSIFIED AS "URBAN LAND" (Ud) BY THE UNITED STATES DEPARTMENT OF AGRICULTURE'S NATURAL RESOURCES CONSERVATION SERVICES

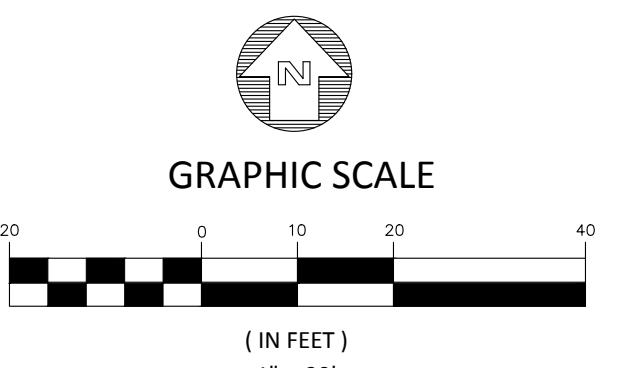
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CITY OF BROOKHAVEN
DONALD SHERRILL - PUBLIC WORKS
DEPUTY DIRECTOR
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REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
51-0004

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Oconee River

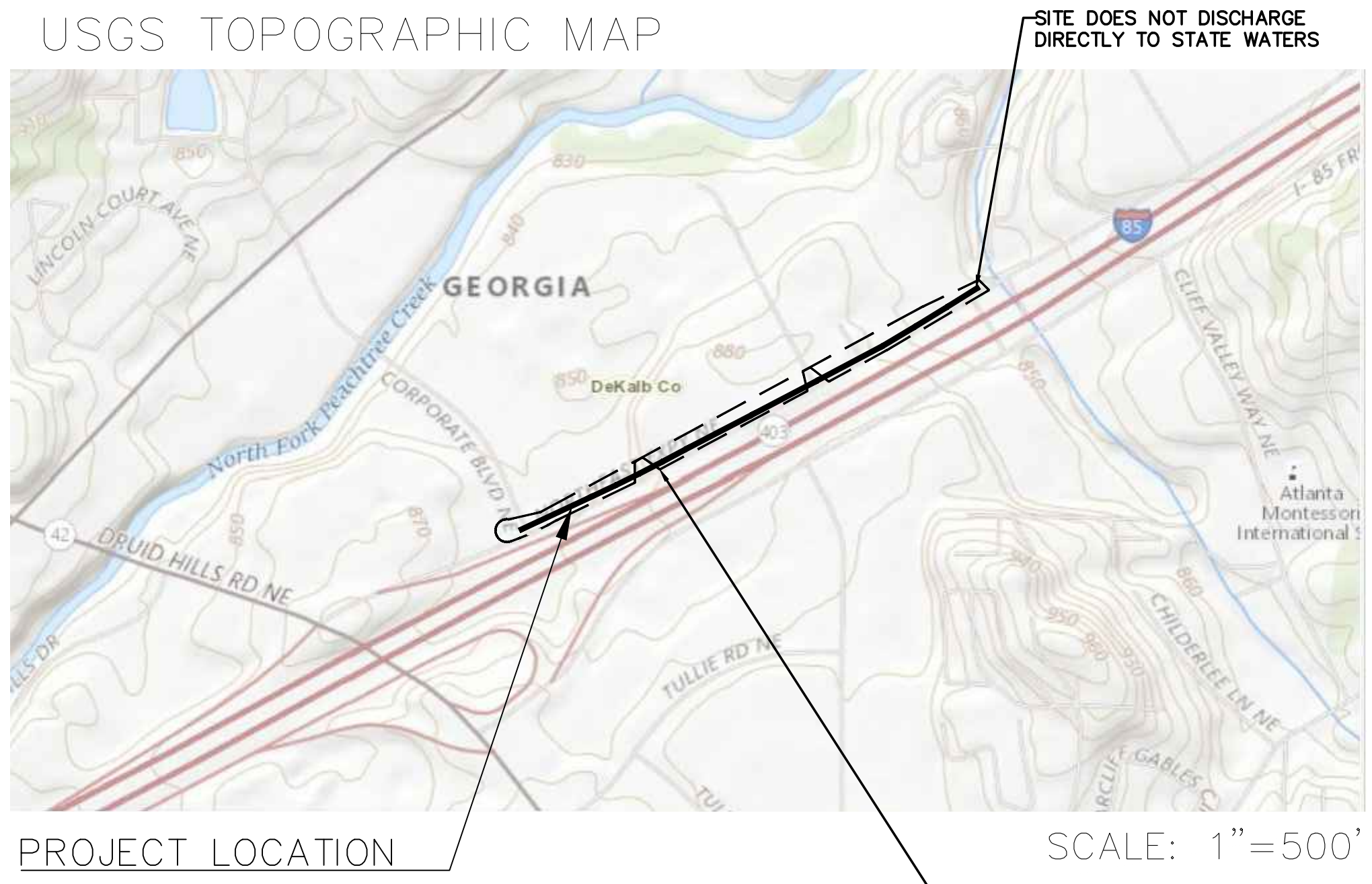
Project Name: N.E. EXPRESSWAY FRONTAGE ROAD MULTI-USE PATH
City/County: BROOKHAVEN/ DEKALB COUNTY Date on Plans: 01-10-2021
Name & email of person filling out checklist: Tanner Copeland | tanner.copeland@kaizencollaborative.com

Plan Included
Page # Y/N
TO BE SHOWN ON ES&PC PLAN

- 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)
- 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
- 3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- 4 Provide the name, address, email address, and phone number of primary permittee.
- 5 Note total and disturbed acreage of the project or phase under construction.
- 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
- 7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- 8 Description of the nature of construction activity.
- 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
- 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
- 13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *
- 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5 page 26 of the permit. *
- 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded vegetation or within 25-foot of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
- 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
- 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
- 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- 22 Any construction activity which discharges storm water into an Impaired Stream Segment or within 1 linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
- 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
- 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
- 25 Provide BMPs for the remediation of all petroleum spills and leaks.
- 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
- 27 Description of practices to provide cover for building materials and building products on site. *
- 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
- 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- 30 Provide complete requirements of inspections and record keeping by the primary permittee. *
- 31 Provide complete requirements of sampling frequency and reporting of sampling results. *
- 32 Provide complete details for retention of records as per Part IV.F. of the permit. *
- 33 Description of analytical methods to be used to collect and analyze the samples from each location. *
- 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
- 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
- 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *

- 37 Graphic scale and North arrow.
 - 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
Existing Contours USGS 1" : 2000' Topographical Sheets
Proposed Contours 1" : 400' Centerline Profile
 - 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
 - 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
 - 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
 - 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
 - 43 Delineation and acreage of contributing drainage basins on the project site.
 - 44 Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
 - 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
 - 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
 - 47 Soil series for the project site and their delineation.
 - 48 The limits of disturbance for each phase of construction.
 - 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
 - 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
 - 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
 - 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.
- * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2020 0



NARRATIVE:

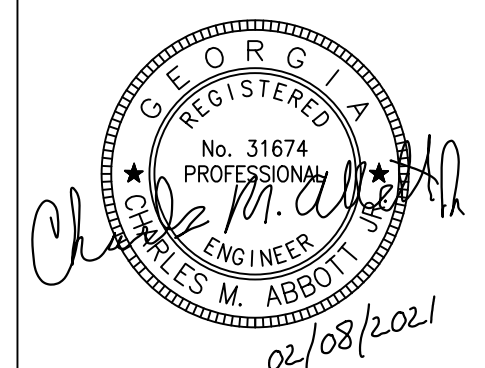
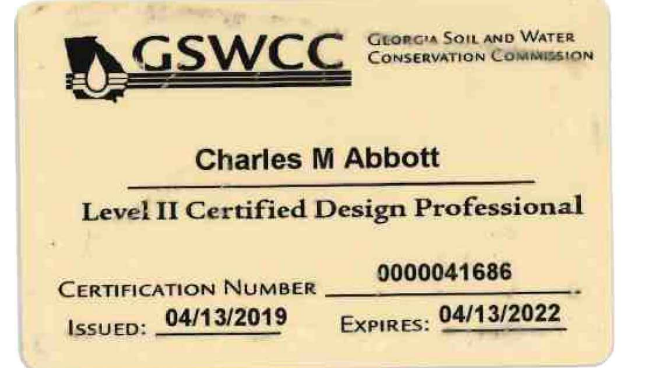
PROJECT DESCRIPTION:
CONSTRUCTION OF A 10' MULTI-USE PATH WITHIN THE EXISTING LANDSCAP SHOULDER OF I-85 FRONTAGE ROAD. THE PROJECT INCLUDES SIDEWALK CONSTRUCTION, (3) RETAINING WALLS, DRIVEWAY MODIFICATION, GRADING, MINOR UTILITY RELOCATION, LANDSCAPING, AND SIGNING & MARKING

EXISTING SITE CONDITIONS:
THIS PROJECT WILL BE CONSTRUCTED WITHIN AN EXISTING GRASSED SHOULDER ALONG SR 403 EXT, I-85 FRONTAGE ROAD, WHICH BACKUPS TO EXISTING PARKING LOTS, A POWER STATION, AND VARYING PLACES OF BUSINESS

ADJACENT AREAS:
THE SITE IS SURROUNDED BY URBAN LAND AREA BOTH COMMERCIAL AND RESIDENTIAL.

EROSION CONTROL:
SEDIMENTATION IS CONTROLLED USING SEDIMENT TRAPS AT INLETS AND PERIMETER CONTROLS. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 0.7 ACRES. EROSION CONTROL MEASURES WILL BE USED UNTIL FINAL STABILIZATION.

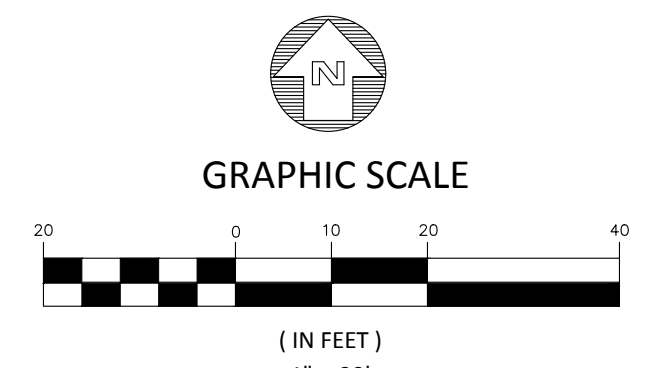
NO NPDES MONITORING TO OCCUR FOR THIS PROJECT



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REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

EROSION CONTROL CHECKLIST

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
51-0005

MAINTENANCE AND INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls.

1. Less than one half of the site will be denuded at one time.
2. All control measures will be inspected at least once each week and following any storm event of 0.5 inches or greater.
3. All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
4. Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
5. Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
6. The sediment basin will be inspected for depth of sediment, and built up sediment will be removed when it reaches one-third of the design capacity or at the end of the job.
7. Diversion dike will be inspected and any breaches promptly repaired.
8. Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
9. A maintenance inspection report will be made after each inspection.
10. The 24-hour emergency contact will select individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.
11. Personnel selected for inspection and maintenance responsibilities will receive training from the 24-hour emergency contact. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

CONCRETE WASHDOWN BEST MANAGEMENT PRACTICES

These are the BMP's for preventing the illegal discharge or concrete washdown water into storm drains, streams or rivers.

1. Choose a suitable location away from storm drains, streams and rivers that is accessible to the vehicle.
2. Excavate a pit deep enough to contain the washdown water.
3. Vehicle should always back into the pit.
4. Washdown only the chute, hopper and rear of the vehicle. DO NOT wash out the drum or discharge surplus concrete into the pit.
5. Verify that washdown water goes into and stays in the pit.
6. Properly dispose of washdown in the pit. Fill in pit and smooth out ground.
7. Washout of Concrete Truck Drum is prohibited.

Note: On some sites where it is not possible to have access to a washdown pit, washdown of chute and hopper will need to be done into a wheelbarrow or container and taken to an approved disposal site.

SPILL PREVENTION BEST MANAGEMENT PRACTICES

MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to water runoff.

The following GOOD HOUSEKEEPING PRACTICES will be followed onsite during the construction project.

An effort will be made to store only enough product required to do the job.

All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.

Products will be kept in their original containers with the original manufacturer's label.

Substances will not be mixed with one another unless recommended by the manufacturer

Whenever possible, all of a product will be used up before disposing of the container.

Manufacturers' recommendations for proper use disposal will be followed.

The site superintendent will inspect daily to ensure proper use disposal of materials onsite.

HAZARDOUS MATERIAL PRACTICES

These practices are used to reduce the risks associated with hazardous materials:

Products will be kept in original containers unless they are not resealable

Original labels and material safety data will be retained; they contain important product information

If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

PRODUCT SPECIFIC PRACTICES

The following product specific practices will be followed onsite:

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.

POINTS/FINISHES/SOLVENTS:

All products will be stored in tightly sealed original containers when not in use. Excess products 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 TRUCK WASHING:

No concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water onsite.

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.

SOIL CLEANUP AND SPILL 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, maps, rags, gloves, goggles, cat litter, sand, 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 WITH 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 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.

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.

2) All BMPs will be inspected daily and any deficiencies noted will be corrected by the end of each day. Additional BMPs will be installed if deemed necessary by on-site inspection.

3) All disturbed areas must be seeded, fertilized, and mulched as soon as construction phase permit. Also, these disturbed areas must be protected until permanent vegetation is established.

4) 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.

5) All unsurfaced areas disturbed by grading operations shall receive four (4) inches of topsoil. Contractor shall apply stabilization fabric to all slopes that are 10' or greater in height & slope of 3:1V or greater as necessary to retain topsoil. Contractor shall maintain best management practices on disturbed slopes in accordance with the Manual for Erosion and Sediment Control in Georgia until a healthy stand of grass is maintained over more than 70% of the disturbed area and to the satisfaction of the Owner.

6) It is the responsibility of the contractor to clean out all existing and proposed inlets, pipes, and manholes of debris and sediment at completion of the site work in conformance with all State and local specifications, and to the satisfaction of the Owner.

7) Silt fence shall meet the requirements of Section 171, "Silt Fence" of the State of Georgia Department of Transportation Standard Specifications, and meet specifications for Type "C" silt fence in the "Manual for Erosion and Sediment Control in Georgia", and shall be wire reinforced as required by these specifications. A double row must be installed between land disturbing activities and state waters.

8) All earthwork operations should be scheduled in a manner to maintain proper routing of storm water through sediment control devices. If it is necessary to perform construction activities in an order that is not in accordance with the activity schedule on this plan, or the construction schedule will allow for disturbed areas to bypass best management practices, the contractor is to contact the engineer prior to commencement of such activities and implement erosion control devices that will control sediment, at the satisfaction of the engineer and in accordance with the Manual for Erosion and Sediment Control in Georgia.

9) Detention facilities and erosion control measures are to be accomplished prior to any other construction on the site and maintained until permanent ground cover is established.

10) Length of riprap shall be 6 times the diameter of the stormwater outlet pipe at a minimum.

11) File Notice of Intent and Notice of Termination with GA EPD if required.

12) No concrete vehicle washdown or storage of any petroleum products is allowed on site.

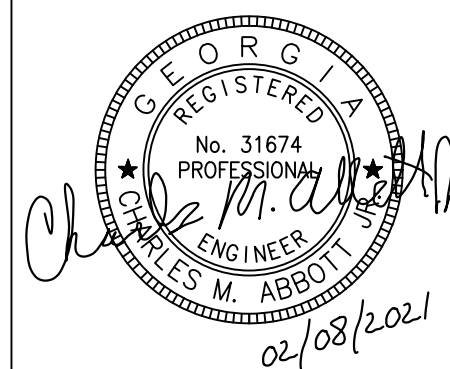
13) Stormwater pollutants are decreased on this site with the installation of sediment barriers and permanent vegetative cover. The vegetative cover will remain as a permanent ground stabilization measure.

14) Revisions to the ES&PC plan which have a significant hydraulic component must be certified by the design professional.

15) Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 permit.

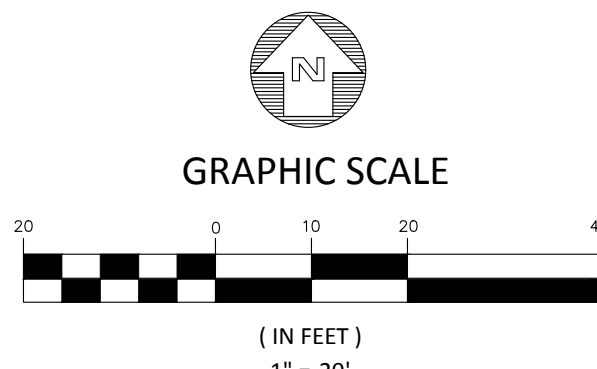
16) Owner to verify all waste disposal, sanitary sewer, and septic tank regulations for removal and remediation have been implemented.

17) Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.



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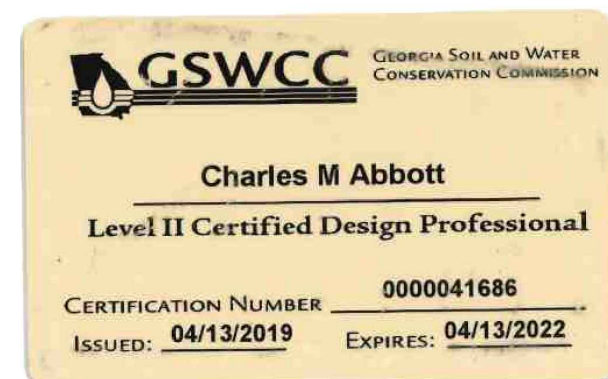
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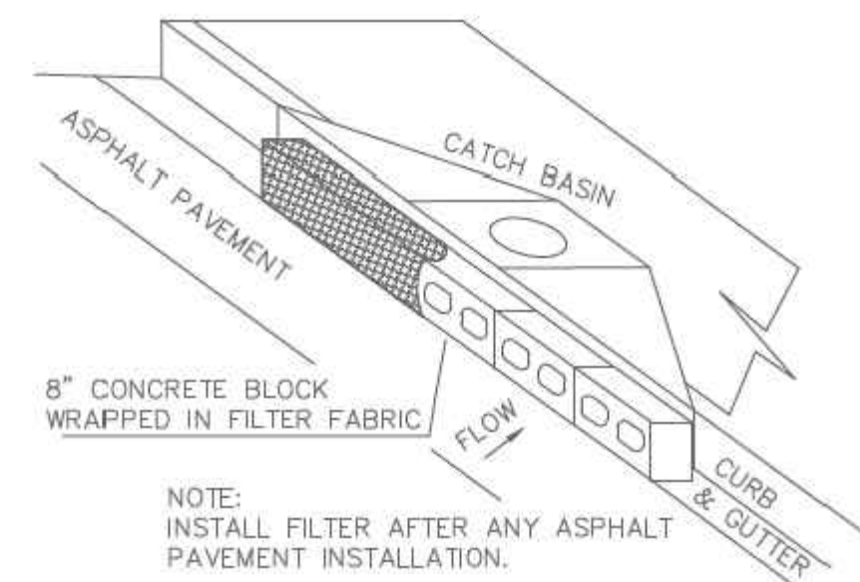
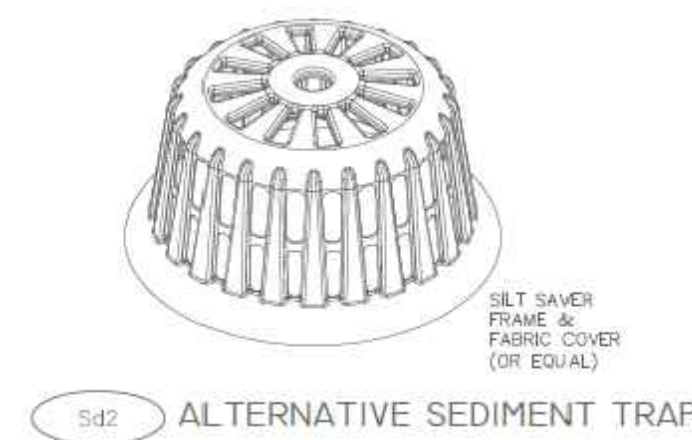


REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

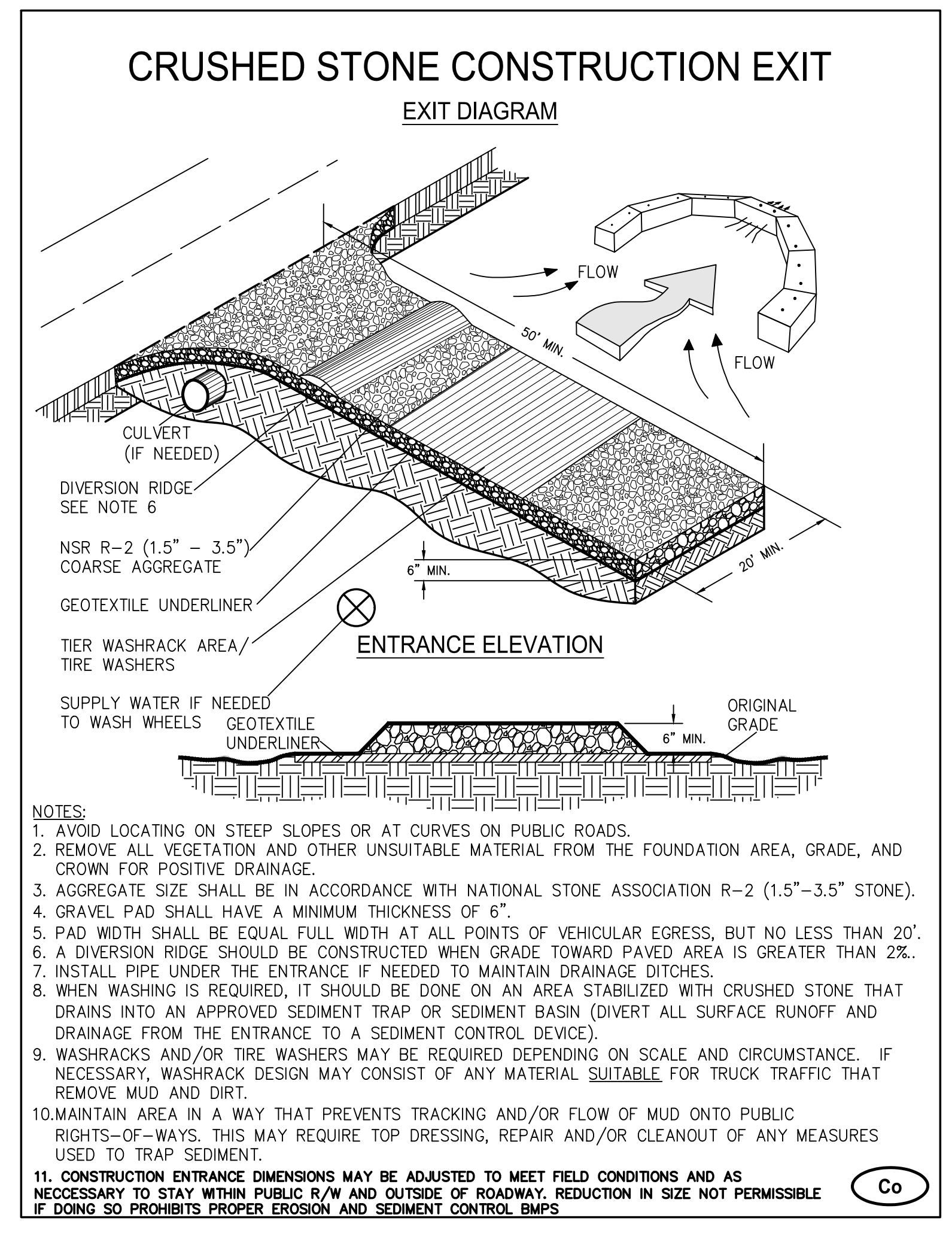
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
EROSION CONTROL BMP
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No.
51-0006

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

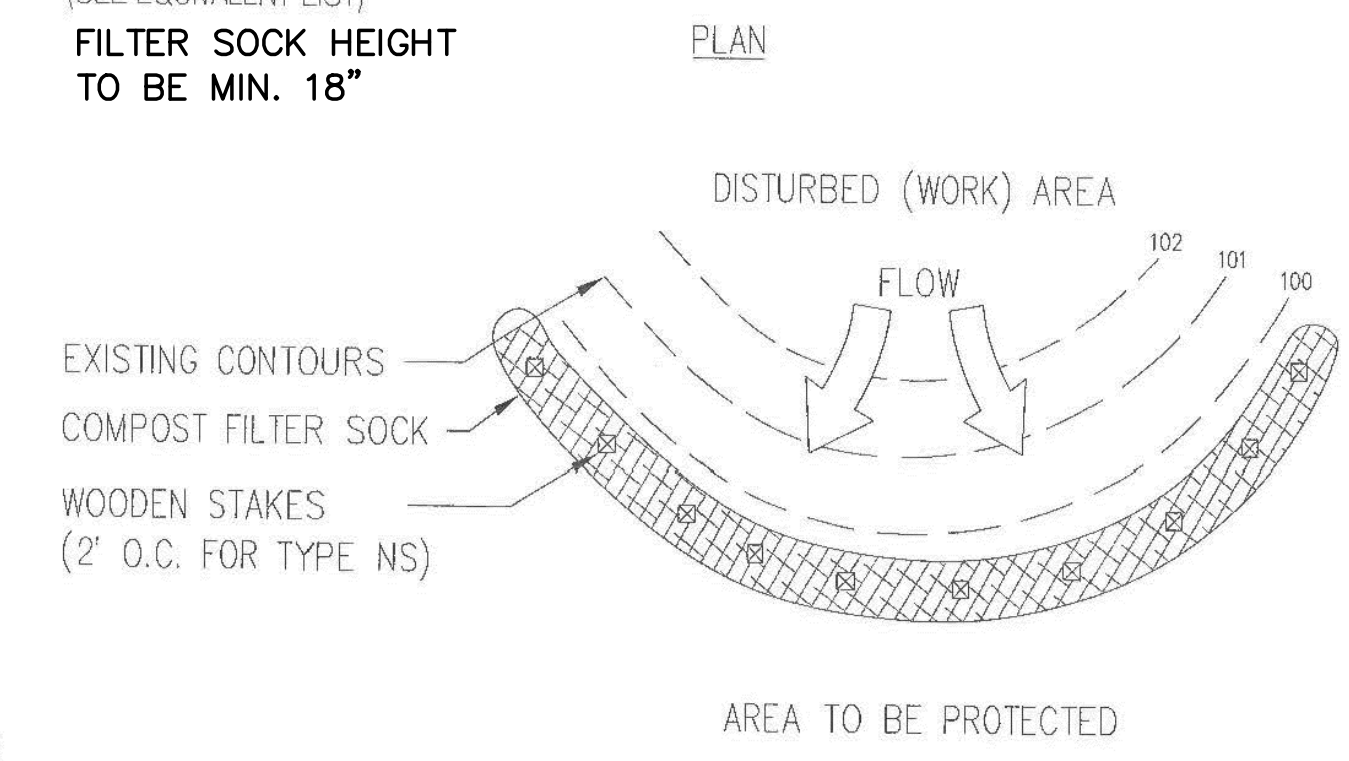
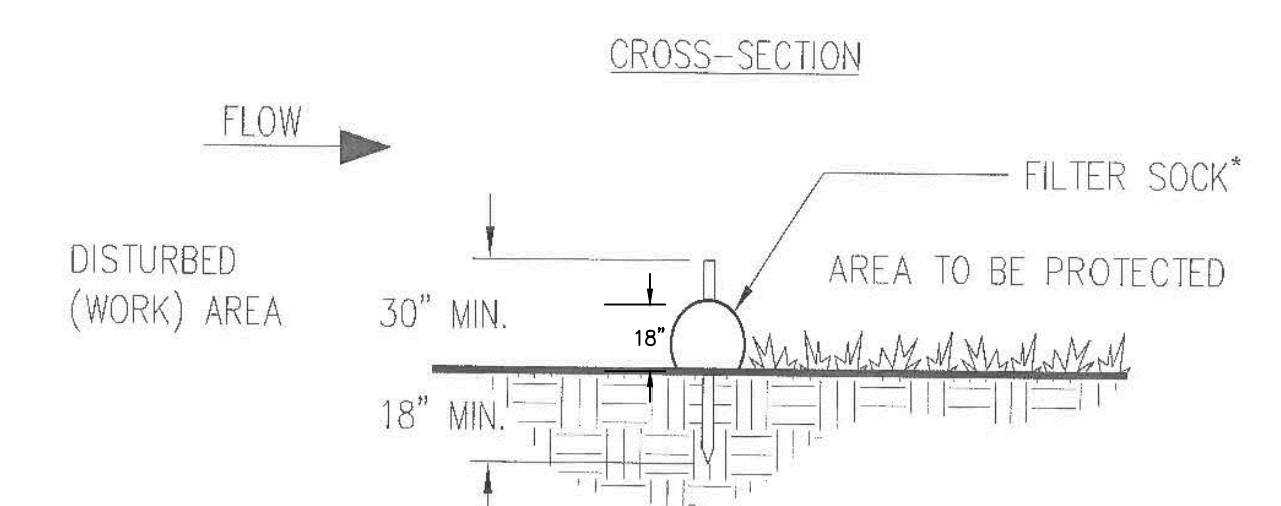




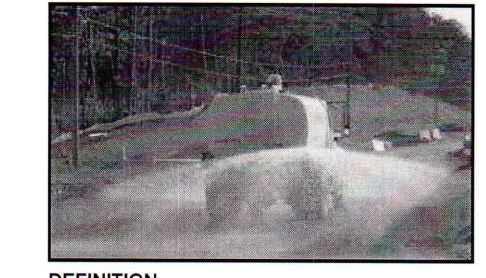
INFORMATION OBTAINED FROM FIGURE 6-21.5
Sd2-P CURB INLET FILTER "PIGS IN BLANKET"



EROSION AND SEDIMENT CONTROL
TYPE B COMPOST FILTER SOCK



Dust Control on Disturbed Areas



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
To prevent surface and air movement of dust from exposed soil surfaces.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS
A. Temporary Methods
Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins such as Curasol or Terracast should be used according to manufacturer's recommendations.
Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).
Spray-on Adhesives. These are used on mineral soils (not effective on truck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.
Tillage. This practice is designed to roughen

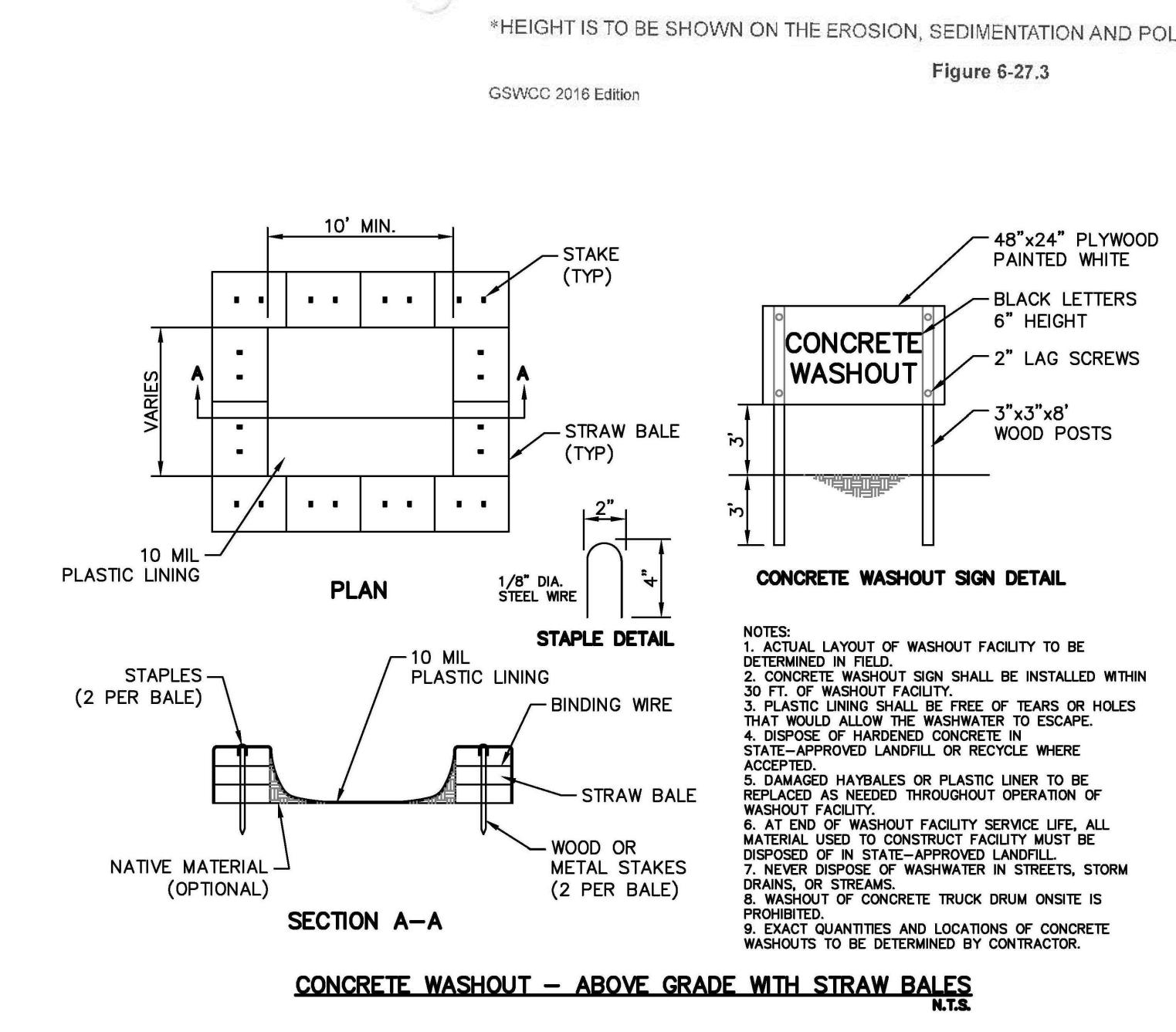
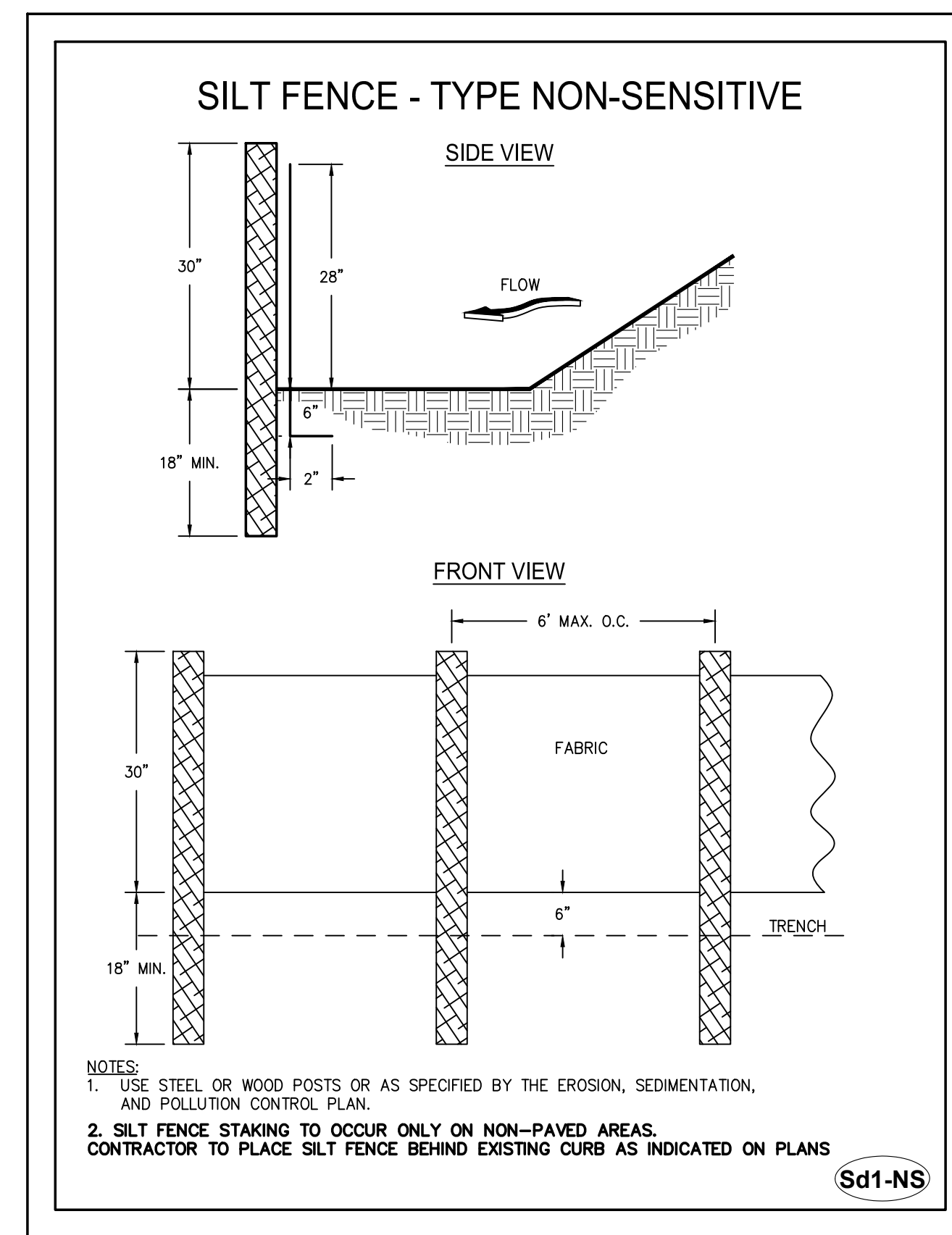
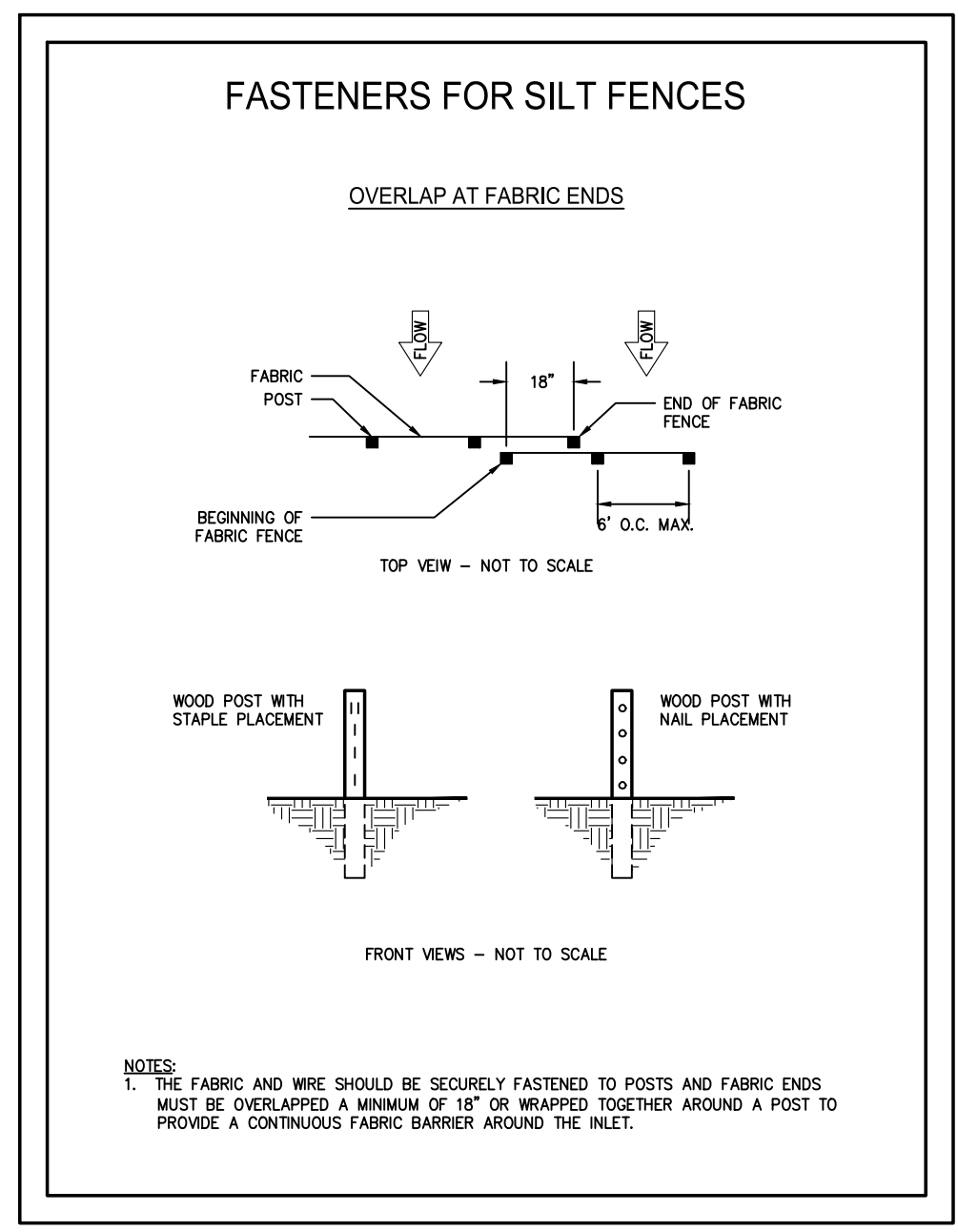
and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods
Permanent Vegetation. See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.
Topsolling. This entails covering the surface with less erosive soil material. See specification Tp - Topsolling.
Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road Stabilization.



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Charles M Abbott
Level II Certified Design Professional

CERTIFICATION NUMBER 0000041686
ISSUED: 04/13/2019 EXPIRES: 04/13/2022

NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

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REGISTERED PROFESSIONAL ENGINEER
No. 31674
CHARLES M. ABBOTT
02/08/2021

PLANS PREPARED BY:
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GRAPHIC SCALE
1" = 20'

REVISION DATES	
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7

EROSION CONTROL DETAILS

N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH

DRAWING No.
56-0007

CONSTRUCTION SPECIFICATIONS
Sediment traps may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill provided they have a non-erodible outlet.

Fabric with Supporting Frame
This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type C silt fence supported by steel posts shall be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36" tall and entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet. Block and Gravel Drop Inlet Protection. This method of inlet protection is applicable where

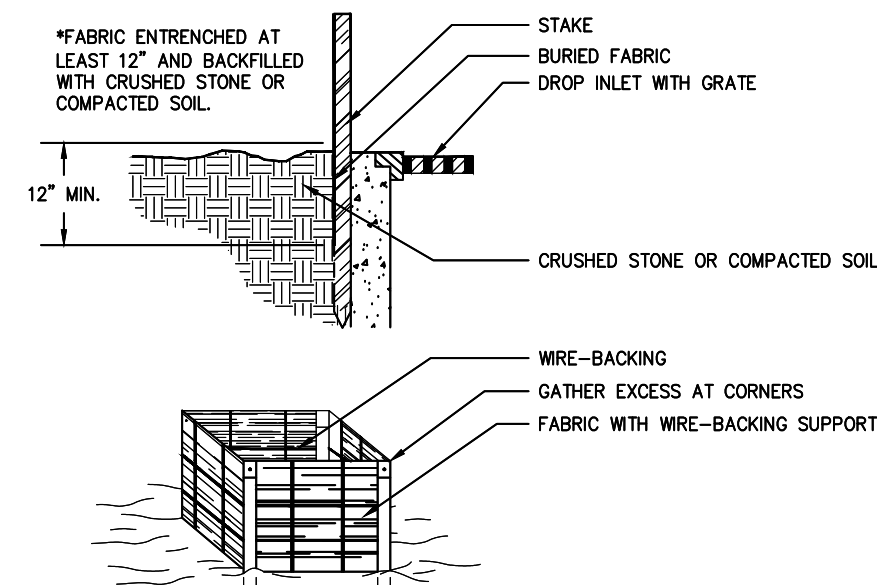
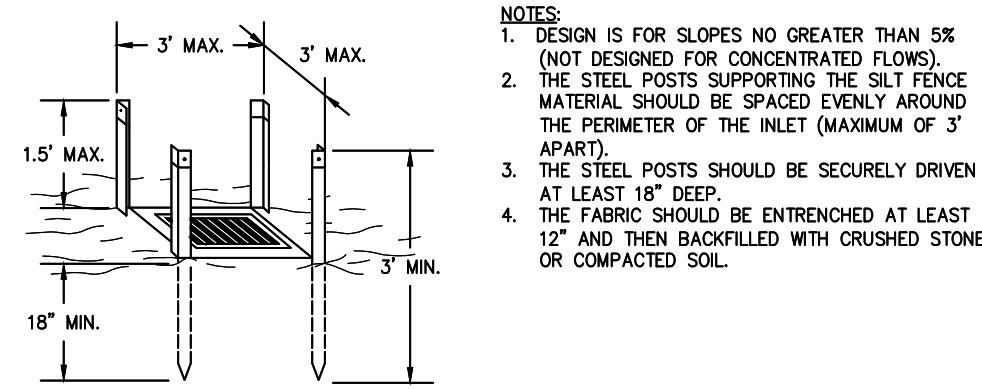
heavy flows are expected and where an overflow capacity is necessary to prevent excessive ponding around the structure. As shown in Figure 6-21.3, one block is placed on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. The bottom row of blocks are placed against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, lateral support may be given to subsequent rows by placing 2" x 4" wood studs through block openings. Hardware cloth or comparable wire mesh with 1/2 inch openings shall be fitted over all block openings to hold gravel in place. Clean gravel should be placed 2 inches below the top of the block on a 2:1 slope or flatter and smoothed to an even grade. DOT #57 washed stone is recommended. Curb Inlet Protection. Once pavement has been installed, a curb inlet filter

MAINTENANCE
shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created. One method of curb inlet protection uses "pigs-in-blanket" - 8-inch concrete blocks wrapped in filter fabric. See Figure 6-28.6. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material. A gap of approximately 4 inches shall be left between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to its possible ponding in the roadway, resulting in a hazardous condition. Several other methods are available to prevent the entry of sediment into storm drain inlets. Figure 6-28.7 shows one of these alternative methods.

The trap shall be inspected daily and after each rain and repairs made as needed. Sediment shall be removed 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. Sod inlet protection shall be maintained as specified in Ds4 - Disturbed Area Stabilization (With Sodding). 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.

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION

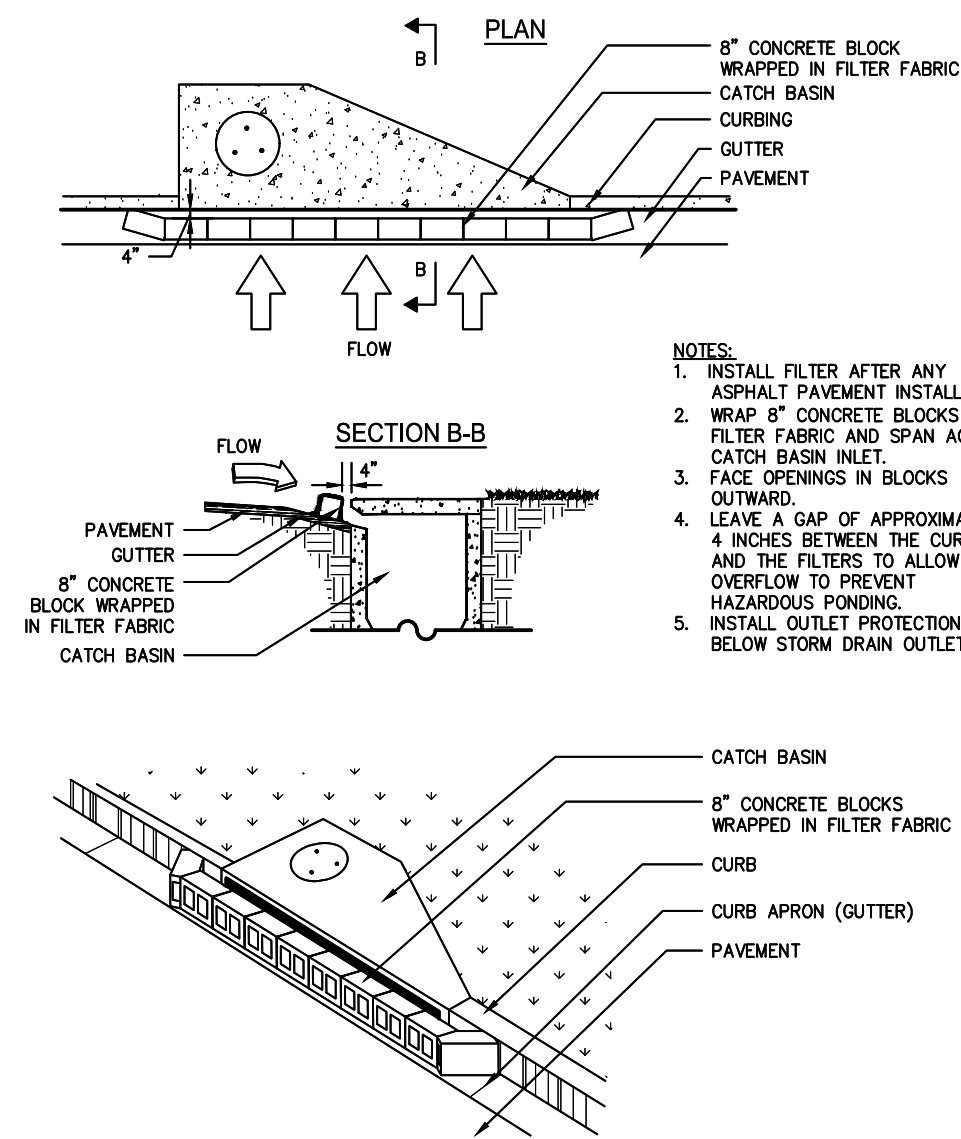


INLET SEDIMENT TRAP

(NTS)

Sd2-F

CURB INLET FILTER "PIGS IN BLANKET"



CURB INLET FILTER "PIGS IN BLANKET"

(NTS)

Sd2-P

REQUIREMENT FOR REGULATORY COMPLIANCE

Refer to specification Ds1 - Disturbed Area Stabilization (With Temporary Seeding).

INSTALLATION SPECIFICATIONS

Grading and shaping
Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seeded preparation
When a hydraulic seeder is used, seeded preparation is not required. When using conventional or hand-seeding, seeded preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and fertilizer
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in their pass with seed, and shoume hydraulic mulch, then topped with the remaining required application rate.

Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Seeding
Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching
Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1-Disturbed Area Stabilization (With Mulching Only).

Irrigation
During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

SUGGESTED SEEDBED DEPTHS

SLOPE	SEEDBED DEPTHS
3:1 OR FLATTER	LESS THAN 4" DEPTH
2:1 TO 3:1	1" TO 4" DEPTH
2:1 OR STEEPER	DEPRESSIONS EVERY 6"- 8" HAND DIG, IF NECESSARY

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Ds2

Species	Broadcast Rates 2/ = PLS 3/ Per Acre	Resource Area 4/	J	F	M	A	M	J	J	A	S	O	N	D
BARLEY (Hordeum vulgare)	3 bu. (144 lbs.) 1/2 bu. (24 lbs.)	M-L P C												
LESPEDEZA, ANNUAL (Lespedeza striata)	40 lbs. 10 lbs.	M-L P C												
LOVEGRASS, WEEPING (Eragrostis curvula)	4 lbs. 2 lbs.	M-L P C												
MILLET, BROWNTOP (Panicum fasciculatum)	40 lbs. 10 lbs.	M-L P C												
MILLET, PEARL (Pennisetum glaucum)	50 lbs. 1 lb.	M-L P C												
OATS (Avena sativa)	4 bu. (168 lbs.) 1 bu. (30 lbs.)	M-L P C												
RYE (Secale cereale)	3 bu. (168 lbs.) 1/2 bu. (28 lbs.)	M-L P C												
RYEGRASS, ANNUAL (Lolium temulentum)	40 lbs. 0.9 lb.	M-L P C												
SUDANGRASS (Sorghum sudanense)	60 lbs. 1.4 lb.	M-L P C												
TRITICALE (X-Triticosecale)	3 bu. (144 lbs.) 1/2 bu. (24 lbs.)	C												
WHEAT (Triticum aestivum)	3 bu. (180 lbs.) 1/2 bu. (30 lbs.)	M-L P C												

1/ Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily.
2/ Reduce seeding rates by 50% when drilled.
3/ PLS is an abbreviation for Pure Live Seed.
4/ M-L represents the Mountain, Blue Ridge, and Ridges and Valleys MRAs. F represents the Southern Piedmont MRA. C represents Southern Coastal Plain, Sand Hills, Block Lands and Atlantic Coastal Flatwoods MRA.

REQUIREMENT FOR REGULATORY COMPLIANCE

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. Refer to Ds2-Disturbed Area Stabilization (With Temporary Seeding), Ds3-Disturbed Area Stabilization (With Permanent Seeding), and Ds4-Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS

Mulching without Seeding
This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

- Grade to permit the use of equipment for applying and anchoring mulch.
- Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
- Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

- Select one of the following materials and apply at the depth indicated:
- Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
 - Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
 - Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

- Dry straw or Hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
- If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre, in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
- Apply polyethylene film on exposed areas.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

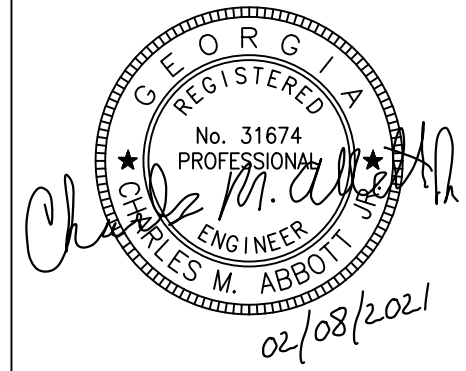
(NTS)

Ds1

Anchoring Mulch

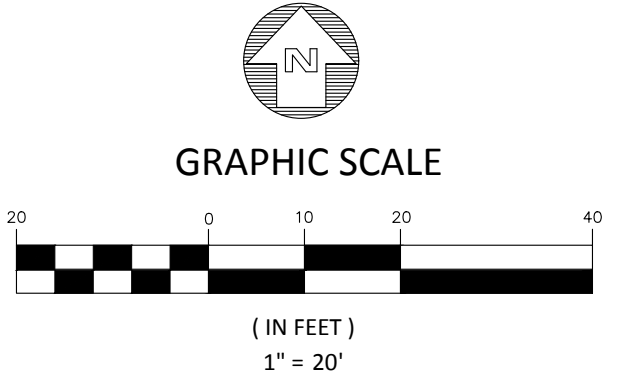
1. Straw or hay mulch can be pressed into the soil with a disk arrow with the disk set straight or with a special "pucker disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough to cut the mulch but to press it into the soil leaving much of it in an erect position. **STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.** Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifiers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

- Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
- Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.



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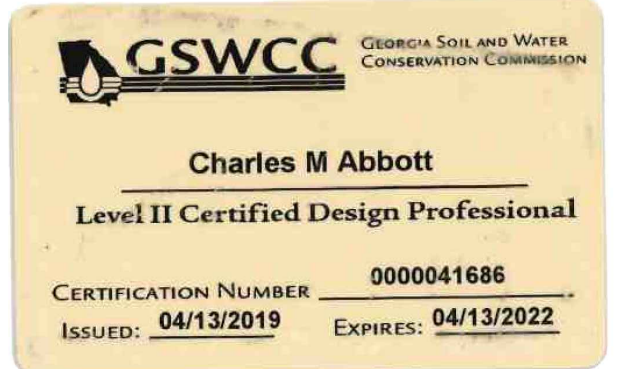
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REVISION DATES

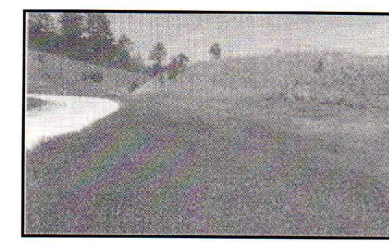
100% ISSUE FOR PERMIT	11/20/2020
REV. 1 CITY COMMENTS	01/11/2021
REV. 2 AGENCY COMMENTS	02/08/2021

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 7
EROSION CONTROL DETAILS
N.E. EXPRESSWAY FRONTAGE ROAD
MULTI-USE PATH
DRAWING No.
56-0008



NO NPDES MONITORING TO OCCUR FOR THIS PROJECT

Disturbed Area Stabilization (With Permanent Vegetation) D#3



DEFINITION The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE •To protect the soil surface from erosion •To reduce damage from sediment and runoff to down-stream areas •To improve wildlife habitat and visual resources •To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice of 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 ungraded areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill that has been certified by the GA EPCO for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or sodded according to the Plan (uniformly covered with landscaping materials in planned landscaped areas) or equivalent permanent stabilization measures.

Wildlife Plantings Commercially available plants beneficial to wildlife species include the following: Black Cherry, Blackberry, Blackhaw, Blackthorn, Chickadee, Hairy, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

Shrubs and Small Trees Bayberry, Bittersweet, Crape Myrtle, Dogwood, Hackberry or Native Black Locust, Laurel, Native Holly, Red Cedar, Rose Milkberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruit used by many game species. Hickory provides nuts used by many game species and squirrels and bears.

Grasses, Legumes, Vines and Temporary Cover Bahiagrass, Bermudagrass, Grass-Legume mixtures, Fescue, Fescue Annual, Lespedeza, Ox-chardgrass (for mountains), Browntop Millet (for temporary cover), and Native grasses.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedeza may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS Grading and Shaping Grading and shaping may not be required when hydraulic seeding and planting equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently. Seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive hydroseeder. Finely ground limestone can be applied in the mulch spray or in combination with the hydroseeder.

When conventional planting is to be done, line and fertilizer shall be applied uniformly in one of the following ways:

- 1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after steep surfaces are scarified, plowed or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seeding.

Plant Selection Refer to Tables 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7 and 4-8 for approved species. Species not listed shall be approved by the State Resource Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, plant use and maintenance of the area, time of year of planting, method of planting, and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovagegrass.

Some perennial species are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species becomes established. For example, Common seeding combinations are 1) Weeping Lovagegrass with Sericea Lespedeza and 2) Tall Fescue with Sericea Lespedeza (unsarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common

Permanent vegetation shall consist of planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that the growing season 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land subject to agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land by its agriculture or silviculture use. 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.

CONDITIONS Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other disturbed areas.

PLANNING CONSIDERATIONS 1. Use conventional planting methods where possible. 2. When mixed plantings are done during marginal planting periods, companion crops shall be used.

3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. 4. For nursery stock plantings, holes shall be large enough to accommodate roots without crowding.

5. No till planting is effective when planting is done following a summer or winter annual crop. Sericea Lespedeza planted no till into stands of rice is an excellent procedure. 6. Stock sod practices immediately cover it and is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification for Disturbed Area Stabilization (With Sodding).

7. Irrigation should be used when the soil is dry and when summer plantings are done. 8. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control. 9. Mulching should not be performed during the cool nesting season (May to September).

8. Wildlife plantings should be included in critical area plantings.

loosen the soil to a depth of 4 to 6 inches; alternate composition; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.

2. Tillage may be done with any suitable equipment and in any direction.

3. Tillage should be done on the contour where feasible.

4. On slopes too steep for the surface where tillage equipment, the soil surface should be scarified or trenched across the slope with appropriate hand tools to provide two places 18 to 24 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants 1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.

2. For nursery stock plantings, holes shall be large enough to accommodate roots without crowding.

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8. Wildlife plantings should be included in critical area plantings.

the same day inoculated. No inoculated seeds shall remain in the hydroseeder longer than one hour.

Planting Hydraulic Seeding Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding Seeding will be done on a freshly prepared and firm seedbed. For broadcast planting, use a culti-packer-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding. Spread the seed uniformly over the area to be treated. Cover the seed lightly with soil to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using an out-packer or other suitable equipment.

No-Till Seeding No till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent vegetation. No till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants Shrubs, vines and sprigs may be planted with appropriate gardeners or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the trees.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grow in the nursery. The soil between and between rows shall be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be added and the plant shall be set in the hole.

Mulching Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals shall consider the mulch's functional longevity, vegetation,

PLANTS, PLANTING RATES AND PLANTING DATES FOR PERMANENT COVER

Table with columns: Species, Broadcast Rate (LBS./1000 SQ. FT.), Resource Area, Planting Dates by Resource Area (J, F, M, A, M, J, J, A, S, O, N, D), and Remarks. Includes species like Bahia, Paspalum, and various grasses.

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses. Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These ground covers should not be used unless proper maintenance is planned. Maintain mulch at three-inch thickness until plants provide adequate cover.

Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish new roots before hot weather.

Table with columns: COMMON NAME, SCIENTIFIC NAME, NATURE HEIGHT, PLANT SPACING, and COMMENTS. Lists plants like Aelia grandiflora, Galium temperans, and various junipers.

TREES FOR EROSION CONTROL

Table with columns: SITE, SOIL MATERIAL, COMMON SOILS, PLANTING TREE SPECIES, SPACING, PLANTING DATES. Lists trees like Loblolly pine, Slash pine, and White pine.

1/ Other trees and shrubs listed in the previous tables may be interplanted with the pines for improved wildlife benefits. 2/ Type of planting: Tree Spacing, No. of trees per acre. 3/ M-1 represents the Mountains; Blue Ridge; and Ridges and Valleys MRAs. 4/ Fertilization of companion crop is ample for this species.

FERTILIZER REQUIREMENTS

Table with columns: TYPE OF SPECIES, YEAR, ANALYSIS OR EQUIVALENT, RATE, N TOP DRESSING RATE. Provides fertilizer rates for different species and years.

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

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation Prepare soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils. Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or soil sterilants. Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1 Fertilizer Requirements for Soil Surface Application

Table with columns: Fertilizer Type, Fertilizer Rate (lbs./acre), Fertilizer Rate (lbs./sq.ft.), Season. Shows rates for 10-10-10 fertilizer.

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2). On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled.

Irrigate sod and soil to a depth of 4" immediately after installation. Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

Sod selected should be certified. Sod grown in the general area of the project is desirable. 1. Sod should be machine cut and contain 1/4" (+ or - 1/8") of soil, not including shoots or thatch. 2. Sod should be cut to the desired size within + or - 5%. Torn or uneven peds should be rejected. 3. Sod should be cut and installed within 36 hours of digging. 4. Avoid planting when subject to frost heave or hot weather. If irrigation is not available, 5. The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

Table 6-6.2 Sod Planting Requirements

Table with columns: Grass, Varieties, Resource Area, Growing Season. Lists grass types like Bermudagrass, Bahiagrass, Centipede, St. Augustine, Zoysia, and Tall Fescue.

MAINTENANCE

Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2). Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3 Fertilizer Requirements for Sod

Table with columns: Types of Species, Planting Year, Fertilizer (N-P-K), Rate (lbs./acre), Nitrogen Top Dressing Rate (lbs./acre). Shows fertilizer and nitrogen rates for different species and planting years.

DISTURBED AREA STABILIZATION (NTS) D#4

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) D#3

Logo for GSWCC (Georgia Soil and Water Conservation Commission) with website www.Georgia811.com and slogan 'Know what's below. Call before you dig.'

Professional Engineer seal for Charles M. Abbott, No. 31674, State of Georgia.

Plans prepared by KAIZENCOLLABORATIVE, 2390 Main Street | Tucker, GA 30084 | 404.239.2521. Includes contact for Charles M. Abbott Jr., P.E.

CITY OF BROOKHAVEN - PUBLIC WORKS, DONALD SHERRILL, DEPUTY DIRECTOR, 4362 PEACHTREE RD., BROOKHAVEN, GA 30319.

REVISION DATES table showing 100% issue for permit, and two revisions for city and agency comments.

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: DISTRICT 7. EROSION CONTROL DETAILS. N.E. EXPRESSWAY FRONTAGE ROAD MULTI-USE PATH. DRAWING No. 56-0009.