ATLANTA-REGION TRANSIT LINK AUTHORITY

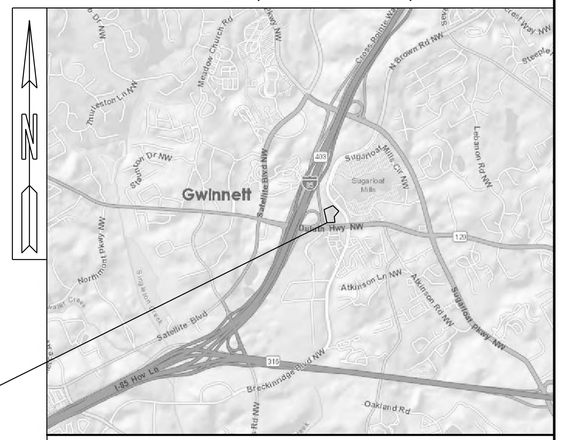
STATE OF GEORGIA

PROPOSED

SUGARLOAF XPRESS PARK-N-RIDE LOT SITE PLANS

GWINNETT COUNTY
FEDERAL GRANT # GA-2018-024
ATL PROJECT NUMBER 21-073

THIS PROJECT IS LOCATED IN LAND LOTS 80 & 81, GWINNETT COUNTY, GEORGIA.


N
Gwinnett
Sugarloaf Mills
Sugarloaf Mills Dr NW
Meadow Church Rd
Thurleston LA NW
Stapleton Dr NW
Normandale Pkwy NW
Satellite Blvd
I-85 Hov Ln
Brookstone Blvd NW
Atkinson Ln NW
Atkinson Rd NW
Oakland Rd
Lawrenceville Hwy NW
Lawrenceville Suwanee Rd
Lawrenceville Suwanee Pkwy NW
Lawrenceville Suwanee Rd NW
Lawrenceville Suwanee Rd NW
Lawrenceville Suwanee Rd

SHT. NO.	DWG. NO.	DESCRIPTION
		CONSTRUCTION PLANS
	01-0001	COVER SHEET
	02-0001 - 02-0002	INDEX OF DRAWINGS
	03-0001	REVISION SUMMARY
	04-0001 - 04-0002	GENERAL NOTES
	05-0001 - 05-0002	TYPICAL SECTIONS
	06-0001 - 06-0005	SUMMARY QUANTITIES
	07-0001	QUANTITIES (AMENDMENT)
	08-0001	QUANTITIES (CONSTRUCTION)
	11-0000 - 11-0002	CONSTRUCTION LAYOUT
	11-0003 - 11-0004	CONSTRUCTION LAYOUT ENLARGED BUS WAY AND PLAZA AREA
	12-0000 - 12-0002	EXISTING CONDITIONS AND DEMOLITION PLAN
	16-0001	BUS WAY PLAN AND PROFILE
	16-0002	ACCESS DRIVE PLAN AND PROFILE
	18-0000 - 18-0002	GRADING AND DRAINAGE PLAN
	18-0003 - 18-0004	GRADING AND DRAINAGE ENLARGED BUS WAY AND PLAZA PLAN
	22-0001 - 22-0003	DRAINAGE PROFILES AND DRAINAGE PIPE CHART
	22-0004	SANITARY SEWER PROFILES
	23-0000 - 23-0007	SITE CROSS SECTIONS
	24-0000 - 24-0002	UTILITY PLAN
	25-0000	OVERALL LIGHTING PLAN
	25-0001 - 25-0002	LIGHTING PLAN
	25-0003	ENLARGED BUS SHELTER AREA CCTV POWER PLAN
	25-0004	ENLARGED ENTRANCE PARTIAL PLAN
	25-0005	LIGHTING DETAILS, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE
	25-0006	PANEL SCHEDULE AND POWER DIAGRAM
	25-1000	OVERALL LIGHTING PHOTOMETRIC PLAN
	25-1001 - 25-1002	LIGHTING PHOTOMETRIC PLAN
	25-1003	LIGHTING PHOTOMETRIC SCHEDULE, STATS, LOCATION AND NOTES
	26-0000 - 26-0002	SIGNING AND MARKING PLAN
	26-0003	SIGNING AND MARKING DETAILS
	28-0001	OVERALL CCTV CAMERA AND ECB PLACEMENT
	28-0002	OVERALL CCTV CAMERA PLACEMENT AND VIEW DIRECTION
	28-0003	OVERALL CCTV CAMERA PLACEMENT AND VIEW ANGLE
	28-0004	PLAZA AREA CCTV CAMERA, CMS AND ECB PLACEMENT
	28-0005	CCTV SYSTEM CABLE PLAN
	28-0006	CCTV POLE MOUNTED CAMERAS DETAIL
	28-0007	BUS SHELTERS 1-3 CCTV CAMERA AND CMS LOCATIONS
	28-0008	BUS SHELTERS 4-5 CCTV CAMERA AND CMS LOCATIONS
	28-0009	CCTV CAMERA INTERFACE BOX (CIB) (BY OTHERS)
	28-0010	MESSAGE SIGN INTERFACE BOX (FIB) (BY OTHERS)
	28-0011	CCTV LOCAL AREA NETWORK EQUIPMENT ROOM
	29-0000	OVERALL LANDSCAPE PLAN
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	29-0003	BUS PLAZA AREA ENLARGEMENT LANDSCAPE PLAN
	29-0004	LANDSCAPE DETAILS
	29-0005	LANDSCAPE SCHEDULE
	29-0006	LANDSCAPE NOTES
	29-0007- 29-0008	SITE FURNISHING DETAILS
	31-0001	RETAINING WALL NO. 1 PLAN AND PROFILE
	31-0002	RETAINING WALL NO. 2 PLAN AND PROFILE
	31-0003	RETAINING WALL NO. 3 PLAN AND PROFILE
		SPECIAL CONSTRUCTION DETAILS
	37-1100	OVERALL SITE PLAN
	37-1101	ENLARGED SITE AT BUILDINGS
	37-1102	BUS SHELTER FLOOR PLAN, REF. CLG PLAN AND ROOF PLAN
	37-1103	BUS SHELTER ELEVATIONS
	37-1104	BUS SHELTER SECTIONS

SHT. NO.	DWG. NO.		DESCRIPTION	
			SPECIAL CONSTRUCTION DETAILS	
	37-1105		STORAGE ROOM FLOOR PLAN, REF. CLG PLAN AND ROOF PLAN	
	37-1106		STORAGE ROOM ELEVATIONS	
	37-1107		STORAGE ROOM SECTIONS	
	37-1108		BUS SHELTER VIEWS	
	37-1109		STORAGE ROOM VIEWS	
	37-2000		GENERAL STRUCTURAL NOTES	
	37-2001		BUS SHELTER FOUNDATION PLAN	
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	37-2003		BUS SHELTER ROOF PLAN	
	37-2004		STORAGE BUILDING ROOF PLAN	
	37-2005		BUS SHELTER ELEVATIONS	
	37-2006		SECTION OF BUS SHELTER BUILDING	
	37-2007		TYPICAL DETAILS	
	37-2008		STEEL DETAILS	
	37-3001		MECHANICAL SCHEDULE AND NOTES	
	37-3101		MECHANICAL FLOOR PLAN LEGEND AND NOTES	
	37-3501		MECHANICAL DETAILS	
	37-4000		ENLARGED MAINTENANCE BUILDING ELECTRICAL EQUIPMENT PLAN	
	37-4001		MAINTENANCE BUILDING AND BUS SHELTER ELECTRICAL PLANS	
	38-0001 - 38-0006		CONSTRUCTION DETAILS - CIVIL DETAILS	
			GEORGIA DOT CONSTRUCTION DETAILS - SERIES 40	
	40-0001	A-3	CONCRETE SIDEWALK DETAILS, CURB CUT (WHEELCHAIR) RAMPS	9/16
	40-0001	A-4	DETECTABLE WARNING SURFACE, TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS	6/09
	40-0001	F-1	WOVEN WIRE FENCE	3/88
	40-0001	F-2	GATE DETAILS FOR CHAIN LINK AND WOVEN FENCE	01/88
	40-0002	ITS-07	ATMS PLANS CONDUIT AND CONDUIT DUCT BANK TYPE 3 INSTALLATION DETAILS	10/06
	40-0002	ITS-08	ATMS DETAILS UNDER BRIDGE CONDUIT DUCT BANK INSTALLATION DETAILS	12/06
	40-0002	P-7	PAVEMENT EDGE TREATMENT ASHPALT AND CONCRETE PAVEMENT	11/11
	40-0002	T-1	SIGN PLATES	1/00
	40-0003	T-2	TYPICAL FRAMING	3/00
	40-0003	T-3A	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL	7/02
	40-0003	T-11A	PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY	9/16
	40-0003	T-12A	PAVEMENT MARKING - ARROW LOCATION	1/00
	40-0004	T-12B	PAVEMENT MARKING - ARROWS	11/20
	40-0004	T-13A	PAVEMENT MARKING - WORDS (SHEET 1 OF 2)	11/20
	40-0004	T-14	PAVEMENT MARKING - HATCHING	11/08
	40-0004	T-15A	RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	9/16

* DENOTES DRAWINGS NOT INCLUDED IN THIS SUBMITTAL

CASE NUMBER : 2020-00316

REGISTERED PROFESSIONAL ENGINEER
No. 21371
PROFESSIONAL ENGINEER
8/26/2021
GEORGE N. KAKUNGS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
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Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

11/20/2020		
08/26/2021		

INDEX OF DRAWINGS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		02-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SHT. NO.	DWG. NO.	DESCRIPTION		
		GEORGIA DOT CONSTRUCTION DETAILS - SERIES 40		
	40-0005	T-18	HANDICAPPED PAVEMENT MARKINGS	1/00
	40-0005	ITS-11	ATMS PLANS RADAR ASSEMBLY FOR OVERHEAD SIGN STRUCTURE	11/06
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	41-0001	1001-B	PIPE CULVERT CONCRETE HEADWALL	8/99
	41-0001	1011AP	PRECAST REINFORCED CONCRETE MANHOLE	6/75
	41-0001	1019A	DROP INLETS (BUILT-IN-PLACE)	8/99
	41-0001	1019AP	PRECAST DROP INLETS	8/99
	41-0002	1030D1	CONCRETE AND METAL PIPE CULVERTS (SHEET 1 OF 3)(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)	9/01
	41-0002	1030D2	CONCRETE AND METAL PIPE CULVERTS (SHEET 2 OF 3)(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPES)	9/01
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	41-0002	1033DP	PRECAST CATCH BASIN (FOR 6" OR 8" HT CURB & GUTTER)	9/82
	41-0003	1034DP	PRECAST CATCH BASIN (FOR 6" OR 8" HT CURB & GUTTER)	9/82
	41-0003	1125	STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)	10/99
	41-0003	4381	POST AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL - 31 INCH GUARDRAIL HEIGHT	01/16
	41-0003	4383	GUARDRAIL ANCHOR TYPE I - 31 INCH GUARDRAIL HEIGHT	08/11
	41-0004	4384	GUARDRAIL TERMINALS, TYPE 12A, 12B AND 12C - 31 INCH GUARDRAIL HEIGHT	01/16
	41-0004	4385	"T" BEAM GUARDRAIL CONNECTION TO 31 INCH GUARDRAIL HEIGHT	08/11
	41-0004	4386	GUARDRAIL LOCATION IN MEDIANS, GUARDRAIL LOCATION AT TURNOUTS - 31 INCH GUARDRAIL HEIGHT	01/16
	41-0004	4391	GUARDRAIL LOCATION (ON ROADS WITH CURB & GUTTER, HEADER CURB OR INTREGAL CURB) - 31 INCH GUARDRAIL HEIGHT	01/16
	41-0005	5046H	JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING	1/18
	41-0005	9031N	CHAIN LINK WIRE FENCE	8/85
	41-0005	9031S	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON	4/96
	41-0005	9031U	JUNCTION BOXES (PRECAST OR BUILT-IN-PLACE) PIPE COLLARS, PIPE ELBOW AND PIPE CURVED ALIGNMENT	7/85
	41-0006	9032B	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	1/21
	41-0006	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISC. DETAILS	3/06
	41-0006	9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY	3/06
	41-0006	4949B	CONCRETE SIDE BARRIER TYPES 2-S, 2-SA, 2-SB AND 2-SC	5/20
	41-0007	4949D	PARAPET RETAINING WALL TYPES P1, P2 AND P3	5/20
	41-0007	4382	GUARDRAIL CONNECTION AT BRIDGE END OR AT CONCRETE BARRIER END FOR 31 INCH HIGH GUARDRAIL	1/16
	41-0007	9029b	PERFORATED UNDERDRAIN	8/83
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	51-0001 - 51-0005	ESPCP NOTES		
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	54-0001 - 54-0003	BMP LOCATION DETAILS		
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	56-0001	Du - DUST CONTROL ON DISTURBED AREAS		GSWCC 2016
	56-0001	Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		GSWCC 2016
	56-0001	Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)		GSWCC 2016
	56-0001	TABLE 6.5.1 FERTILIZER REQUIREMENTS		GSWCC 2016
	56-0002	St - STORM DRAIN OUTLET PROTECTION		GSWCC 2016
	56-0002	Sd1-S - SEDIMENT BARRIER SILT FENCE (TYPE 'C')		GSWCC 2016
	56-0002	RIP-RAP CALCULATIONS		
	56-0003	Rd - ROCK FILTER DAM		GSWCC 2016
	56-0003	Sd1-CFS - COMPOSITE FILTER SOCK - TYPE 'B'		GSWCC 2016
	56-0004	Cd - CHECK DAM		GSWCC 2016
	56-0004	CWA - CONCRETE WASH OUT		GSWCC 2016
	56-0005	Sd2-F - INLET SEDIMENT TRAP (FABRIC AND FRAME)		GSWCC 2016
	56-0005	Sd2-F - INLET SEDIMENT TRAP (FABRIC AND FRAME ALTERNATE) 'SILT SAVER'		
	56-0005	Sd2-P - INLET SEDIMENT TRAP (PIGS IN BLANKET)		GSWCC 2016
	56-0006	Sd2-E - INLET SEDIMENT TRAP (EXCAVATED)		GSWCC 2016
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	56-0008	Cr - CONSTRUCTION ROAD		GSWCC 2016
	56-0009	Sd4 - TEMPORARY SEDIMENT TRAP		GSWCC 2016

SHT. NO.	DWG. NO.	DESCRIPTION		
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	56-0010	D-20	SILT CONTROL GATES FOR STRUCTURES TYPE 1, 2 AND 3	4/16
	56-0010	D-24A	TEMPORARY SILT FENCE (SHT 1 OF 4)	1/11
	56-0010	D-24B	TEMPORARY SILT FENCE, BERM DITCH, INSTALLATION, BRUSH BARRIER (SHT 2 OF 4)	1/11
	56-0010	D-24C	TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHT 3 OF 4)	1/11
	56-0011	D-24D	TEMPORARY SILT FENCE FABRIC CHECK DAM (SHT 4 OF 4)	7/15
	56-0011	D-28	CIRCULAR CORRUGATED METAL BASES FOR CATCH BASINS AND DROP INLETS	12/83
	56-0011	D-35	PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MAT) INSTALLATION ON DITCHES	1/11
	56-0011	D-41	CONSTRUCTION EXIT	11/20
	56-0012	D-50	STONE FILTER BERM	1/18
	56-0012	D-54	SOD INSTALLATION	4/16
	56-0012	D-55A	RIPRAP OUTLET PROTECTION (SHT 1 OF 2)	4/16
	56-0012	D-55B	RIPRAP OUTLET PROTECTION (SHT 2 OF 2)	4/16
	56-0013	Rt - RETRO FIT		GSWCC 2016
	56-0013	Fr - FILTER RING		GSWCC 2016
		REFERENCE DRAWINGS		
		GWINNETT COUNTY LAND DISTURBANCE PERMIT SET 12-17-2020		
		GWINNETT COUNTY LAND DISTURBANCE PERMIT REVISION SUBMITTAL / LAND DISTURBANCE PERMIT SET 7-16-2021		

* DENOTES DRAWINGS NOT INCLUDED IN THIS SUBMITTAL

CASE NUMBER : 2020-00316

REGISTERED PROFESSIONAL ENGINEER No. 21371 9/30/2021 GEORGE N. KANUNES

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REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

INDEX OF DRAWINGS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		02-0002
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DATE	DRAWING NO.	REVISION
11/20/2020	VARIOUS SHEETS: SEE REVISION BLOCKS	ADDRESSED COUNTY COMMENTS
5/14/2021	VARIOUS SHEETS: SEE REVISION BLOCKS	PERMIT REVISION SUBMISSION TO GWINNETT COUNTY
6/30/2021	VARIOUS SHEETS: SEE REVISION BLOCKS	ADDRESSED COUNTY COMMENTS
8/26/2021	VARIOUS SHEETS: SEE REVISION BLOCKS	ISSUED FOR BID
9/30/2021	02-0002	ADDED STD. 4382 AND 9029b
	04-0001	UPDATED NOTE 7
	04-0002	REMOVED NOTES 3 AND 4 AND RENUMBERED UNDER PAVEMENT MARKING GENERAL NOTES
	05-0001 & 05-0002	UPDATED SECTIONS TO SHOW CONCRETE MEDIAN, 6 IN; UPDATED MEDIAN HEADER CURB
		FROM TYPE 2 TO TYPE 7; RENUMBERED TYPICALS
	06-0004	UPDATED MISC. CONSTRUCTION - ON-SITE DECORATIVE SIGNAGE TABLE, ADDED "NO
		COMMERCIAL VEHICLE OR RV'S ALLOWED IN PARKING LOT" SIGN
	07-0001	ADDED QUANTITIES FOR AMENDMENT 1
	11-0001 & 11-0003	UPDATED GUARDRAIL CALLOUTS; UPDATED MEDIAN HEADER CURB FROM TYPE 2 TO TYPE 7;
		UPDATED LEGEND
	11-0002 & 11-0004	UPDATED LEGEND
	25-0005	REVISED LIGHTPOLE FOUNDATION NOTE
	26-0000, 26-0001	REVISED STRIPING KEY NOTES; REMOVED THE WORD "CONTRASTED" FROM GENERAL NOTE 2,
	26-0002, & 26-0003	ADDED "NO COMMERCIAL VEHICLE OR RV'S ALLOWED IN PARKING LOT" SIGN
	29-0000 & 29-0001	REMOVED THE SOD CALLOUT AND PATTERN FOR THE BUS ENTRANCE ISLAND
	41-0007	ADDED STD. 4382 AND 9029b

DATE	DRAWING NO.	REVISION

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030418 CHARLES CHRISTOPHER KING 09/30/2021

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Expiration Date 06/30/2022

REVISION DATES

9/30/2021

REVISION SUMMARY

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 03-0001

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION OF GEORGIA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THIS WORK.

3. THE CONTRACTOR SHALL BID ON GRADING COMPLETE LUMP SUM AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL EARTHWORK QUANTITY TO BE GRADED. CLEARING AND GRUBBING ON THIS PROJECT IS LIMITED TO THE ACTUAL CONSTRUCTION LIMITS UNLESS DIRECTED BY THE ENGINEER. COST FOR CLEARING AND GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE - LUMP SUM.

4. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.

5. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GADOT STANDARD SPECIFICATIONS.

6. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS AND DESCRIPTIONS OF MONUMENTS USED.

7. WHERE WET SUBGRADE IS ENCOUNTERED AND WHERE IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE AND PLASTIC FILTER FABRIC SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE. COSTS ASSOCIATED WITH THIS PROVISION SHALL BE INCLUDED IN THE PRICE BID FOR UNDERDRAIN PIPE INCL DRAINAGE AGGR, 6 IN.

8. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 318 OF THE GADOT STANDARD SPECIFICATIONS IS MODIFIED TO PERMIT TRUCK DUMPING ON UNPREPARED WET, MUDDY SUBGRADE. SECTION 318 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHED STONE AS DESCRIBED IN SECTION 318.02. THE CONTRACTOR WILL HAVE THE USE OF THE FOLLOWING MATERIALS:
   A. GRADED AGGREGATE, ARTICLE 815.2.01
   B. COURSE AGGREGATE, SIZE 467, ARTICLE 800.2.01
   C. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.2.01 OR 803.2.02
   D. CRUSHED STONE, ARTICLE 806.2.01

9. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC. ALL DRIVEWAYS ARE TO BE PAVED BACK TO THE TIE-IN POINT OR REQUIRED RIGHT OF WAY WHICHEVER IS GREATER. EARTH/GRAVEL DRIVEWAYS WILL BE PAVED WITH ASPHALT TO THE R/W LINE AND CONTINUED WITH AGGREGATE SURFACE COURSE TO THE TIE-IN POINT.

10. THIS PROJECT LIES WITHIN THE LIMITS OF AN INSECT INFESTED AREA. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FOLLOWING SUB-SECTIONS OR SPECIAL PROVISIONS TO THE GADOT STANDARD SPECIFICATIONS: A) SUB-SECTION 107.13D - INSECT CONTROL REGULATIONS; B) SUB-SECTION 155 - INSECT CONTROL; AND C) SUB-SECTION 893 - MISCELLANEOUS PLANTING.

11. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

12. ALL EXISTING PIPE SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. COST FOR REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

13. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE A PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING P.C.C. CONCRETE PAVEMENT.

14. WHERE EXISTING PAVEMENT MARKINGS AND LINES ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE ENGINEER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING LINES OR MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERLY STRIPPED.

15. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 104.05 AND 107.07 OF THE GADOT STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

16. PRICE BID FOR TRAFFIC CONTROL- LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING AND PAVEMENT MARKINGS, BARRICADES, CHANNELIZING DEVICES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND/OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DETOUR SIGNAGE MAYBE REQUIRED IN ORDER TO CONFORM TO THE MUTCD. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL SIGNAGE NOT ILLUSTRATED ON THE DETOUR PLAN.

17. CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR. ALL COST FOR THIS ITEM WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.

18. THE CONTRACTOR IS REQUIRED TO PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH GWINNETT COUNTY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

19. THE FOLLOWING UTILITY OWNERS HAVE FACILITIES WHICH MAY CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

1. GAS
   TITO CINTRON
   ATLANTA GAS LIGHT GWINNETT
   470-218-5996

2. COMMUNICATIONS
   ANGELO HINES
   AT&T/D TELECOMMUNICATIONS
   770-784-3972

3. COMMUNICATIONS
   CHARTER COMMUNICATIONS TELECOM
   800-778-9140

4. COMMUNICATIONS
   BRAD SEARS
   COMCAST TELECOMMUNICATIONS
   770-559-6052

5. POWER
   DARRELL TIENCKEN
   GEORGIA POWER
   404-506-6539

6. COMMUNICATIONS
   AT&T/T TELECOMMUNICATIONS
   800-241-3624

7. WATER
   STEPHANIE SPARKS
   GWINNETT COUNTY PUBLIC
   UTILITIES WATER
   678-376-6917

8. SEWER
   STEPHANIE SPARKS
   GWINNETT COUNTY PUBLIC
   UTILITIES SEWER
   678-376-6917

9. COMMUNICATIONS
   GWINNETT COUNTY PUBLIC
   UTILITIES TELECOMMUNICATION
   770-822-8915

10. TRAFFIC
    ROBERT WILLIAMS
    GWINNETT COUNTY PUBLIC
    UTILITIES TRAFFIC
    678-639-8853

11. POWER
    JAN DOBY
    JACKSON EMC
    770-822-3249

12. COMMUNICATIONS
    WINDSTREAM KDL, INC TELECOM
    800-289-1901

13. COMMUNICATIONS
    WINDSTREAM DALTON TELECOM
    800-289-1901

14. COMMUNICATIONS
    DEWAYNE BEGLEY
    ZAYO FIBER SOLUTIONS TELECOM
    470-249-5124

15. COMMUNICATIONS
    TOWER CLOUD INC DBA
    UNITI FIBER TELECOM
    888-897-2568

16. COMMUNICATIONS
    INTERSTATE FIBERNET (AKA
    ITC DELTA COM) TELECOM
    800-289-1901

17. COMMUNICATIONS
    LEVEL 3 COMMUNICATIONS TELECOM
    877-366-8344 EXTN. 3

20. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON RECEIVED UTILITY OWNER MARK-UPS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION.

21. CONTRACTOR IS TO MAINTAIN PUBLIC ACCESS TO ALL BUILDINGS, PARKING LOTS, AND THE ADJACENT SITE WITH SHARED ACCESS DRIVE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.

22. CONTRACTOR IS TO PROVIDE TEMPORARY WALKS, TEMPORARY SIGNS, AND/OR OTHER MEANS AS NECESSARY TO INSURE SAFETY AND UNINTERRUPTION OF FLOW OF PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

23. EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERABLE AT ALL TIMES.

24. SIGNAL, MARKING AND TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE ENGINEER.

25. ALL ADA WHEELCHAIR RAMPS AND SIDEWALK WITHIN THE RADII SHALL BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.

26. THERE IS NO SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMIT. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE ATL.

27. A NOTICE OF INTENT IS REQUIRED ON THIS PROJECT.

28. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARD SPECIFICATIONS, "COOPERATION WITH UTILITIES."

29. THIS PROJECT HAS A TOTAL OF 5.49 ACRES AND THE EXPECTED DISTURBED AREA IS 6.14 ACRES. THE TOTAL AREA IS THE AREA OF RIGHT-OF-WAY AND EASEMENTS, AND THE DISTURBED AREA IS THE GRADING, CLEARING, AND GRUBBING AREA.

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

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 CHARLES CHRISTOPHER KING 09/30/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
5/14/2021		
8/26/2021		
9/30/2021		

GENERAL NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		04-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

30. ALL CUT AND FILL SLOPES SHALL BE GRASSED IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.

31. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADED AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVE SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH REQUIREMENT.

32. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.

33. ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. EROSION CONTROL CHECK DAMS OR FILTER RINGS SHALL BE PLACED IMMEDIATELY AFTER DRAINAGE STRUCTURES ARE IN PLACE. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE THE GADOT STANDARD SPECIFICATIONS REGARDING EROSION CONTROL AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL BY G.S.W.C.C. THE CONTRACTOR SHALL OBTAIN AND ABIDE BY ALL CORPS OF ENGINEERS RULES AND REGULATIONS CONCERNING CONSTRUCTION ADJACENT TO WATERWAYS AND MAINTAIN WATER QUALITY.

34. TYPE OF GRASS OR SOD USED ON THIS PROJECT WITHIN GWINNETT/GDOT RIGHT OF WAY WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA, ETC. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

35. COST FOR EMBANKMENT REQUIRED FOR OUTLET CONTROL STRUCTURE REPAIR TO BE INCLUDED IN GRADING COMPLETE.

36. THE COST FOR DETENTION POND MAINTENANCE TO BE INCLUDED WITHIN GRADING COMPLETE. DETENTION POND MAINTENANCE INCLUDES: REMOVAL OF ACCUMULATED SILT/SEDIMENT, REGRASSING BARE ARES OF THE POND SLOPES, CLEANING/MAINTAINING OF THE OUTLET CONTROL STRUCTURE, PERIODIC MOWING OF SLOPES, ETC.

GDOT ENCROACHMENT PERMITTING NOTES

1. THE FOLLOWING WILL NOT BE ALLOWED ON D.O.T. RIGHT OF WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ON THE RIGHT OF WAY , OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER; (2) HEADWALLS; (3) SIGNS, DISPLAYS, DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM

2. ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION / DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE D.O.T. OR AN APPROVED RETENTION LETTER FROM HE UTILITY OWNER.

3. CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

4. CONTRACTOR SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO D.O.T. SPECIFICATION ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D GUIDELINES.

6. ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSED.
   NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT OF WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

   REQUIRED PAVEMENT SPECIFICATIONS
   1¼" ----- 9.5 MM SUPERPAVE
   2" ----- 19 MM SUPERPAVE
   3" ----- 25 MM SUPERPAVE
   10" ----- GRADED AGGREGATE BASE COURSE

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INQUIRING, COORDINATING, AND OBTAINING ALL REQUIRED PERMITS, CERTIFICATIONS, AND LICENSES NEEDED FOR THE SITE CONSTRUCTION. THE COST ASSOCIATED WITH THIS NOTE SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE. PROOF OF FEE PAYMENT SHALL BE SUBMITTED ALONG WITH PAY APPLICATION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INQUIRING, COORDINATING, AND CONNECTING THE SITE TO ALL NEEDED UTILITY SERVICES. THE CONTRACTOR SHALL TURN OVER THE CONNECTED SERVICES TO ATL PRIOR TO THE PROJECT ACCEPTANCE DATE. THE CONTRACTOR SHALL PAY FOR ALL CONNECTED UTILITY BILLS UNTIL THE PROJECT ACCEPTANCE DATE. THE COST ASSOCIATED WITH THIS NOTE SHALL BE CHARGED TO THE UTILITY CONTINGENCY PAY ITEM. PAYMENT APPLICATION ASSOCIATED WITH THE NOTE WILL ONLY BE APPROVED IF SUBMITTED WITH PAID BILLS AND OVERHEAD COST JUSTIFICATION.

GDOT ENCROACHMENT PERMITTING NOTICE

1. NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY D.O.T. PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

2. THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

4. ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARD GDOT DETAILS.

5. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

STORM WATER GENERAL NOTES

1. THERE IS NO FLOODPLAIN ON THIS PROJECT FROM A WATERCOURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES.

2. THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.

3. STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED IN ADJACENT DOWNSTREAM MASTER DETENTION POND.

4. MAXIMUM SLOPE FOR CUT OR FILL IS 2H:1V.

5. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH TREE PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

PAVEMENT MARKING GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.

2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (LATEST EDITION) AND ANY APPLICABLE GWINNETT COUNTY STANDARDS.

3. PAVEMENT MARKINGS SHALL BE PER GDOT CONSTRUCTION DETAILS.

4. YELLOW EDGELINES SHALL BE USED AROUND ALL MEDIANS.

5. STANDARD SKIP PATTERN CONSIST OF A 10' SEGMENT WITH A 30' GAP. "CHICKEN" TRACKS SHALL CONSIST OF A 2' SEGMENT WITH A 6' GAP.

6. THE CONTRACTOR IS REQUIRED TO PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH GWINNETT COUNTY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

SIGN GENERAL NOTES

1. ALL SIGNS SHALL BE HIGH INTENSITY GRADE SHEETING (ON METAL) UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

2. ALL R1-1 (STOP) SIGNS SHALL BE 30" UNLESS OTHERWISE NOTED AND INSTALLED ON 3 LB/FT RIBBED BACK, GALVANIZED, U-CHANNEL POSTS, 12' IN LENGTH.

3. IN RESIDENTIAL AREAS SIGNS SHALL BE LOCATED ON, OR AS CLOSE AS POSSIBLE TO PROPERTY LINES.

4. ALL "KEEP RIGHT" (R4-7) SIGNS SHALL BE INSTALLED 10' FROM THE END OF MEDIAN. REFER TO MEDIAN NOSE HOLE DETAIL.

SIGNAL GENERAL NOTES

1. CONTRACTOR SHALL INSTALL MICROWAVE VEHICLE DETECTION SYSTEM ON EXISTING POLE, IN THE SOUTHWEST QUADRANT, BY THE EXISTING SIGNAL CABINET. MICROWAVE DETECTOR SHALL BE INSTALLED PER MANUFACTURER'S MOUNTING GUIDELINES AND ALL CABLING SHALL BE ROUTED THROUGH EXISTING CONDUIT TO THE CABINET. DETECTION ZONES SHALL BE CONFIGURED TO DETECT THE LEFT TURN AND THROUGH/RIGHT TURN LANE ON THE ACCESS DRIVE. CONTRACTOR SHALL COORDINATE WITH GWINNETT COUNTY 48 HOURS IN ADVANCE OF WORK AT 678-639-8800.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030418 09/30/2021 CHARLES CHRISTOPHER KING

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
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GENERAL NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		04-0002
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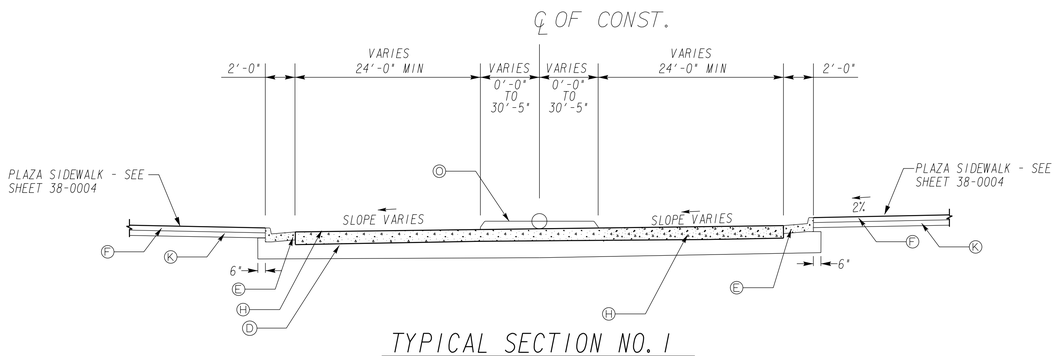
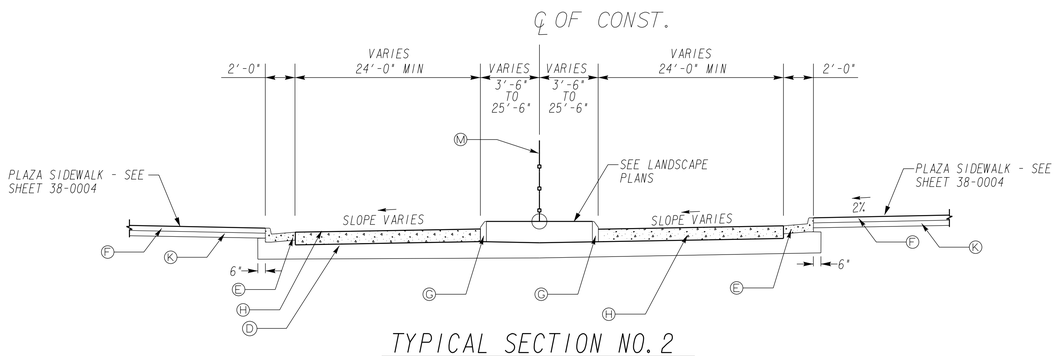
VERIFIED:		DATE:		



TYPICAL SECTION NO. 1
BUS WAY
STA. 60+34.00 TO 60+59.00 LT & RT



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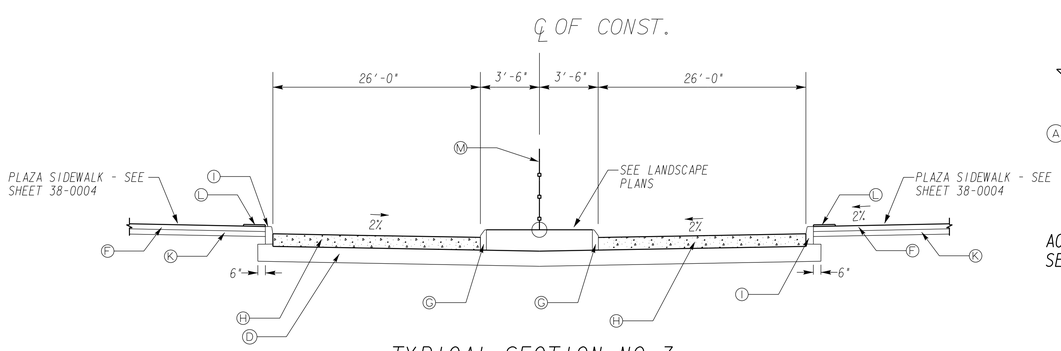

TYPICAL SECTION NO. 3
BUS WAY
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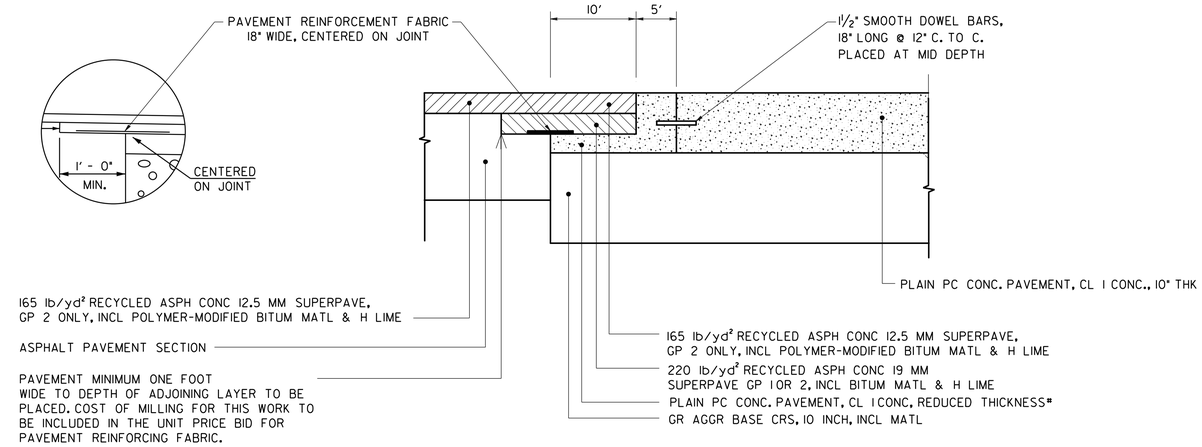
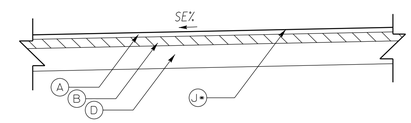
STA. 61+21.43 TO 63+16.43 RT



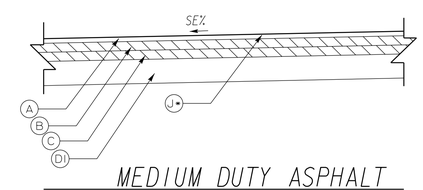
*NOTE: THE REDUCED THICKNESS CONCRETE SLAB SHALL BE PAID FOR AS P.C. CONCRETE PAVEMENT. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE REDUCED DEPTH.

JOINTED PLAIN CONCRETE PAVEMENT TO ASPHALTIC CONCRETE PAVEMENT TRANSITION DETAIL

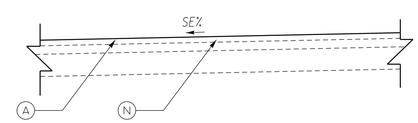
N.T.S.



STANDARD DUTY ASPHALT PAVEMENT SECTION
SEE CONSTRUCTION LAYOUT PLANS FOR LOCATIONS



MEDIUM DUTY ASPHALT PAVEMENT SECTION
SEE CONSTRUCTION LAYOUT PLANS FOR LOCATIONS



MILLING AND OVERLAY PAVEMENT SECTION
ACCESS DRIVE STA. 10+60.00 TO STA. 13+30.00
SEE CONSTRUCTION LAYOUT PLANS FOR LOCATIONS

* THE HIGH DENSITY MINERAL BOND SEAL COATING SHALL BE APPLIED ON FINISHED ASPHALTIC PAVEMENT SURFACES PER THE MANUFACTURER OR AS DIRECTED BY THE ENGINEER.

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH. CONC. 9.5 mm SUPERPAVE, TYPE 11, BLEND 1, INCL BITUM MATL & H LIME 137.5 lb/sy
B	RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME 220 lb/sy
C	RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME 330 lb/sy
D	GR AGGR BASE CRS, 10 INCH, INCL MATL
DI	GR AGGR BASE CRS, 6 INCH, INCL MATL
E	CONC. CURB & GUTTER, 8 IN x 24 IN, TP 2,(GA STD 9032 B)
F	CONC. SIDEWALK, 4 IN
G	CONCRETE HEADER CURB, 6 IN, TP 7
H	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK
I	STRAIGHT GRANITE CURB, 6 IN X 18 IN, TP A (SEE CIVIL DETAILS; SHEET 38-0004)
J*	HIGH DENSITY MINERAL BOND (HA5 OR APPROVED EQUAL)
K	GR AGGR BASE CRS, 4 INCH, INCL MATL
L	DETECTABLE WARNING SURFACE
M	DECORATIVE FENCE - SEE LANDSCAPE PLANS
N	MILL ASPH CONC PVMT, VARIABLE DEPTH
O	CONCRETE MEDIAN, 6 IN

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 09/30/2021 CHARLES CHRISTOPHER KING

ATKINS
Member of the SNC-Lavalin Group

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TYPICAL SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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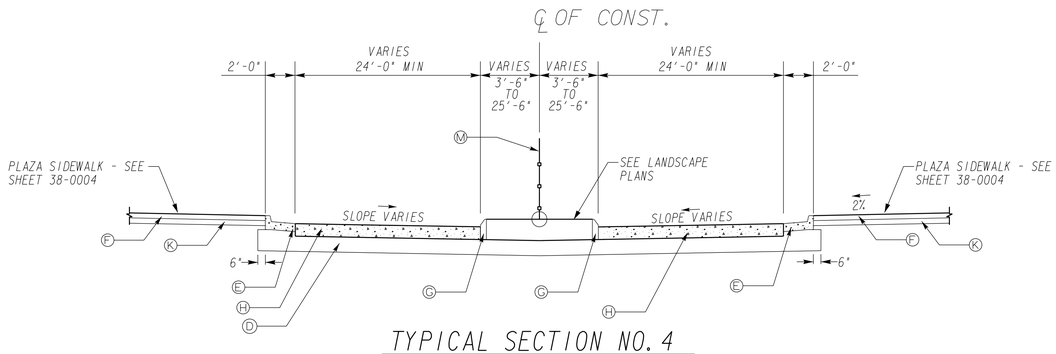
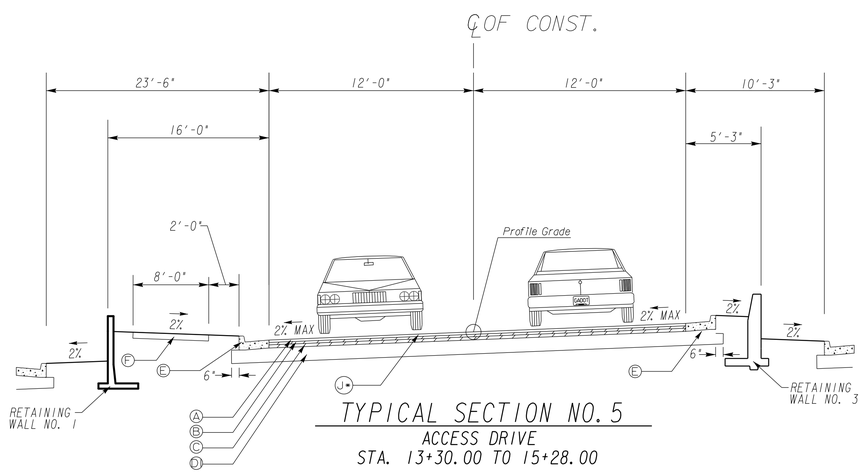


TYPICAL SECTION NO. 4

BUS WAY
STA. 60+75.00 TO 60+96.00 LT & 62+88.00 TO 64+34.00 LT
STA. 60+75.00 TO 61+21.43 RT & 63+16.43 TO 64+34.00 RT



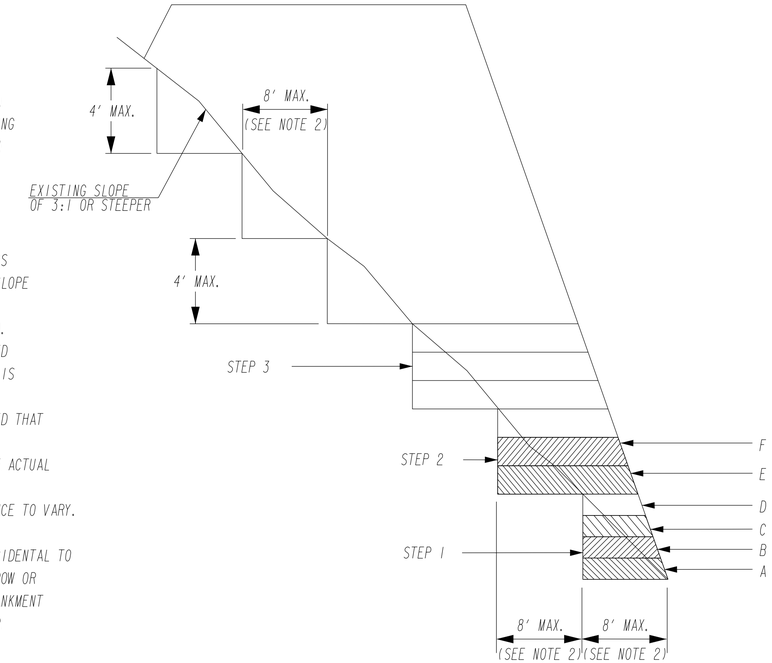
TYPICAL SECTION NO. 5

ACCESS DRIVE
STA. 13+30.00 TO 15+28.00

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING CONSTRUCTED. (SEE DIAGRAM AT RIGHT.)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED, THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8' (ABOUT ¾ THE WIDTH OF THE TYPICAL D-8 BULDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS TO CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4' IF AN 8' HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4' ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.



BENCHING DETAIL

NO SCALE

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH. CONC. 9.5 mm SUPERPAVE, TYPE II, BLEND I, INCL BITUM MATL & H LIME 137.5 lb/sy
B	RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME 220 lb/sy
C	RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME 330 lb/sy
D	GR AGGR BASE CRS, 10 INCH, INCL MATL
D1	GR AGGR BASE CRS, 6 INCH, INCL MATL
E	CONC. CURB & GUTTER, 8 IN x 24 IN, TP 2,(GA STD 9032 B)
F	CONC. SIDEWALK, 4 IN
G	CONCRETE HEADER CURB, 6 IN, TP 7
H	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK
I	STRAIGHT GRANITE CURB, 6 IN X 18 IN, TP A (SEE CIVIL DETAILS; SHEET 38-0004)
J•	HIGH DENSITY MINERAL BOND (HA5 OR APPROVED EQUAL)
K	GR AGGR BASE CRS, 4 INCH, INCL MATL
L	DETECTABLE WARNING SURFACE
M	DECORATIVE FENCE - SEE LANDSCAPE PLANS
N	MILL ASPH CONC PVMT, VARIABLE DEPTH
O	CONCRETE MEDIAN, 6 IN

GEORGIA REGISTERED No. 030458 PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING 09/30/2021

ATKINS
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Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
9/30/2021		

TYPICAL SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

ORANGE BARRIER FENCE, 4 FT	
TOTAL	3738 LIN FT

WATER QUALITY MONITORING & SAMPLING	
EA	6

WATER QUALITY INSPECTIONS	
MONTHS	10

ELECTRICAL CONSTRUCTION - LIGHTING COMPLETE	
LUMP SUM	1 EA

TEMPORARY BARRIER, METHOD NO. 1	
TOTAL	225 LF

MISC. CONSTRUCTION - ENTRY MONUMENT SIGNAGE WITH LED LIGHTING	
LUMP SUM	1 EA

GRADING COMPLETE	
LUMP SUM	21-073

TRAFFIC CONTROL	
LUMP SUM	21-073

HIGH DENSITY MINERAL BOND	
SY	13000

*ARCHITECTURAL CONSTRUCTION - MAINTENANCE BUILDING	
LUMP SUM	1 EA

*BUS PAVILION - 6 LOCATIONS	
LUMP SUM	1 EA

*COST OF PAYMENT FOR BUILDING PERMITTING TO BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE

UNDERCUT EXCAVATION (AS DIRECTED BY THE ENGINEER)	
TOTAL	5000 CY

SUMMARY OF PAVING QUANTITIES

LOCATION	RECYCLED ASPH. CONC. 9.5 mm SUPERPAVE, TYPE II, BLEND 1, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	GR AGGR BASE CRS, 10 INCH, INCL MATL	GR AGGR BASE CRS, 4 INCH, INCL MATL - PLAZA SIDEWALK	TACK COAT	MILL ASPH CONC PVMT, 1 1/4 IN DEPTH	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK	ST GRANITE CURB, 5 X 17, TP A MODIFIED - 6 X 18, TP A	CONC. HEADER CURB, 8" TP 3, GA STD 9032B	CONC. CURB & GUTTER 8" X 24", TP 2	CONC. CURB & GUTTER 8" X 24", TP 7	CONC. SIDEWALK 4 IN - PLAZA AREA	CONC. SIDEWALK 4 IN - N. BROWN RD	CONC. SIDEWALK 8 IN	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME N. BROWN RD AND ACCESS DRIVE
	TONS	TONS	TONS	SY	SY	GAL	SY	SY	LIN FT	LIN FT	LIN FT	LIN FT	SY	SY	SY	TN
PARK AND RIDE SITE	878	1403	2104	17256	1741	1304		2818	387	985	6025	32	3140		200	
N. BROWN ROAD AND ENTRANCE DRIVE	110					160	1594							120		
AS DIRECTED BY ENGINEER	92	137	211	1724	174	191	156	282	43	95	600	8	310	10	20	100
TOTAL	1080	1540	2315	18980	1915	1655	1750	3100	430	1080	6625	40	3450	130	220	100

RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	
AS DIRECTED BY ENGINEER	30 TONS

TOPSOIL - STOCKPILED MATERIAL	
CY	1600

RETAINING WALLS

WALL NUMBER - TYPE	P1	P2	P3	2-S	2-SA	2-SB	2-SC	
	LF	LF	LF	LF	LF	LF	LF	
WALL 1 - PRW	75	117	144					
WALL 2 - PRW	415	-	-					
WALL 3 - SIDE BARRIER TYPE 2				78	36	33	27	
AS DIRECTED BY ENGINEER								
TOTAL	490	117	144	78	36	33	27	

TEMPORARY EROSION CONTROL

LOCATION	TEMPORARY GRASSING	MULCH	CONSTRUCT AND REMOVE CONSTRUCTION EXIT	MAINTENANCE OF CONSTRUCTION EXIT	TEMPORARY SILT FENCE TYPE A	MAINT. OF TEMPORARY SILT FENCE TYPE A	TEMPORARY SILT FENCE TYPE C	MAINT. OF TEMPORARY SILT FENCE TYPE C	CONSTRUCT & REMOVE INLET SEDIMENT TRAP	MAINTENANCE OF INLET SEDIMENT TRAP	CONSTRUCT & REMOVE SEDIMENT BASIN, TP 1	MAINTENANCE OF TEMPORARY SEDIMENT BASIN	CONSTRUCT AND REMOVE RETROFIT-SLOTTED BOARD DAM W/ STONE FILTER	MAINTENANCE OF RETROFIT-SLOTTED BOARD DAM W/ STONE FILTER	CONSTRUCT AND REMOVE STONE FILTER RING	MAINTENANCE OF STONE FILTER RING
	ACRE	TON	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	EA	EA	EA	EA	EA	EA
PARK AND RIDE SITE	3	300	2	2	1880	940	1590	795	33	33	2	2	1	1	1	1
AS DIRECTED BY ENGINEER	1	30	-	-	190	95	160	80	-	-	-	-	-	-	-	-
TOTAL	4	330	2	2	2070	1035	1750	875	33	33	2	2	1	1	1	1

PERMANENT EROSION CONTROL

LOCATION	SOD - BERMUDA (TIFTUF)	PERMANENT GRASSING	STN DUMPED RIP RAP, TP 3, 24 IN	PLASTIC FILTER FABRIC	AGRICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	EROSION CONTROL MATS, SLOPES	CONSTRUCT AND REMOVE STONE FILTER RING	SAN SEWER PIPE, 12 IN, PVC	FLARED END SECTION 12 IN, STORM DRAIN - WITH TRASH RACK	CONCRETE THRUST COLLAR, 12 IN PIPE	CONCRETE PIPE SUPPORT PIER
	SY	ACRE	SY	SY	TON	TON	LB	SY	EA	LF	EA	EA	EA
PARK AND RIDE LOT	SEE SHEET 06-0005 LANDSCAPE QUANTITIES		198	198	3	1	50	2830	1	25	1	2	1
AS DIRECTED BY ENGINEER			12	12	1	1	5	280	-	3	-	-	-
TOTAL	1850	1	210	210	4	2	55	3110	1	28	1	2	1

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 08/26/2021 CHARLES CHRISTOPHER KING

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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

SUMMARY QUANTITIES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CASE NUMBER : 2020-00316

STORM DRAIN QUANTITIES

STR. No.	LOCATION	SIDE	SKEW	PIPES: ALL PIPES SHALL BE CONCRETE UNLESS OTHERWISE NOTED (LIN. FT.) 15"	18"	24"	30"	36"	42"	66"	72"	HEIGHT OF FILL LIN. FT.	FLARED END SECTION GA. STD. 1120 (CONCRETE AND METAL) (EACH)	18"	24"	30"	36"	42"	INLETS & MISC. DRAINAGE ITEMS: TOE WALL - GA. STD. 1120 CLASS "A" CONCRETE CU.YD.	HEADWALL, GA. STD. 1125 CLASS "A" CONCRETE CU.YD.	FOUNDATION BACKFILL MAT'L., TYPE II CU.YD.	CATCH BASIN, GP 1 GA. STD. 1033D EA.	SWCB GA. STD. 1033D EA.	CATCH BASIN, GP 1 GA. STD. 1034D EA.	CATCH BASIN, GP 1 ADDITIONAL DEPTH LIN. FT.	CATCH BASIN, GP 2 ADDITIONAL DEPTH LIN. FT.	DROP INLET, GP 1 GA. STD. 1019A TP C, DI-100 EA.	DROP INLET, GP 1 GA. STD. 1019A TP C, DI-200 EA.	HOODED DROP INLET GA. STD. 1019A TYPE E EA.	DROP INLET, TP. C, GP 1 GA. STD. 1019A EA.	DROP INLET, GP 1 ADDITIONAL DEPTH LIN. FT.	DROP INLET, GP 2 GA. STD. 1019A EA.	STORM SEWER MANHOLE, TP 1 GA. STD. 1011A EA.	STORM SEWER MANHOLE, TP 2 GA. STD. 1011A EA.	STORM SEWER MANHOLE, TP 1 ADDITIONAL DEPTH, CL 1 LIN. FT.	STORM SEWER MANHOLE, TP 1 ADDITIONAL DEPTH, CL 2 LIN. FT.	DRAIN INLET, 8 IN EA.	JUNCTION BOX GA. STD. 9031U EA.	CLASS A CONC, INCL REINF STEEL CONCRETE ENCASEMENT, 24" RCP CY.	CAPPING MINOR STRUCTURE EA.	RIP-RAP, TP 3, 24 IN SQ. YD.	PLASTIC FILTER FABRIC SQ. YD.	REMARKS
A1	SEE 18-0002																																																
A2	SEE 18-0001																																															1			
A3	SEE 18-0001																																															1			
A4	SEE 18-0001																																																	
A4.1	SEE 18-0001																																																	
A5	SEE 18-0001																																																	
A5.1	SEE 18-0001					50																															1													
A5.2	SEE 18-0001					63																					1																							
A5.3	SEE 18-0001					67																																												
A5.3A	SEE 18-0001																																																	
A5.4	SEE 18-0001																																				1											1			
A6	SEE 18-0001																																																	
B1	SEE 18-0002																					1																											37	37	
B2	SEE 18-0001					25																															1													
B3	SEE 18-0001					22																															1													
B4	SEE 18-0001					76																					1																							
B5	SEE 18-0001					40																					1																							
B5.1	SEE 18-0001				16																							1																						
B6	SEE 18-0001					82																						1																						
B7	SEE 18-0001				118																											1																		
B8	SEE 18-0001				28																																1													
B8.1	SEE 18-0001				46																						1																							
B9	SEE 18-0001				52																						1																							
B10	SEE 18-0001				39																						1																							
	SUBTOTAL NO. 1				299	425																1		6		2				1						5								3	37	37	

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030418 08/26/2021 CHARLES CHRISTOPHER KING

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

SUMMARY QUANTITIES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 06-0002

CASE NUMBER : 2020-00316

STORM DRAIN QUANTITIES

STR. No.	LOCATION	SIDE	SKEW	PIPES: ALL PIPES SHALL BE CONCRETE UNLESS OTHERWISE NOTED * 8" PIPE TO BE DIP (LIN. FT.) 15"	18"	24"	30"	36"	42"	66"	72"	HEIGHT OF FILL LIN. FT.	FLARED END SECTION GA. STD. 1120 (CONCRETE AND METAL) (EACH)	18"	24"	30"	36"	42"	INLETS & MISC. DRAINAGE ITEMS: TOE WALL - GA. STD. 1120 CLASS "A" CONCRETE CU.YD.	HEADWALL, GA. STD. 1125 CLASS "A" CONCRETE CU.YD.	FOUNDATION BACKFILL MAT'L., TYPE II CU.YD.	CATCH BASIN, GP 1 GA. STD. 1033D EA.	SWCB GA. STD. 1033D EA.	CATCH BASIN, GP 1 GA. STD. 1034D EA.	CATCH BASIN, GP 1 ADDITIONAL DEPTH LIN. FT.	CATCH BASIN, GP 2 ADDITIONAL DEPTH LIN. FT.	DROP INLET, GP 1 GA. STD. 1019A TP C, DI-100 EA.	DROP INLET, GP 1 GA. STD. 1019A TP C, DI-200 EA.	HOODED DROP INLET GA. STD. 1019A TYPE E EA.	DROP INLET, TP. C, GP 1 GA. STD. 1019A EA.	DROP INLET, GP 1 ADDITIONAL DEPTH LIN. FT.	DROP INLET, GP 2 GA. STD. 1019A EA.	STORM SEWER MANHOLE, TP 1 GA. STD. 1011A EA.	STORM SEWER MANHOLE, TP 2 GA. STD. 1011A EA.	STORM SEWER MANHOLE, TP 1 ADDITIONAL DEPTH, CL 1 LIN. FT.	STORM SEWER MANHOLE, TP 1 ADDITIONAL DEPTH, CL 2 LIN. FT.	DRAIN INLET, 8 IN EA.	JUNCTION BOX GA. STD. 9031U EA.	CLASS A CONC, INCL REINF STEEL CONCRETE ENCASEMENT, 24" RCP CY.	CAPPING MINOR STRUCTURE EA.	RIP-RAP, TP 3, 24 IN SQ. YD.	PLASTIC FILTER FABRIC SQ. YD.	REMARKS
C1	SEE 18-0002																			1																									37	37	
C2	SEE 18-0002					18																											1													
C3	SEE 18-0002					15																											1													
C4	SEE 18-0002					57																											1								11					
C4.1	SEE 18-0002				65																							1																		
C4.2	SEE 18-0002				77																							1																		
C4.A	SEE 18-0002				91																							1																		
C5	SEE 18-0001				132																												1													
C5.1	SEE 18-0001				86																			1																						
C5.A	SEE 18-0001				61																	1																								
C6	SEE 18-0001				74																								1																	
C7	SEE 18-0001				7																								1																	
	SUBTOTAL NO. 2				593	90														1		1		1				3	2				4								11		37	37	
	SUBTOTAL NO. 1				299	425														1		6		2				1					5									3	37	37	
		H= 1-10			892	515																																										
		H= 10-15																																														
		H= 15-20																																														
		H= 20-25																																														
		H= 25-30																																														
	TOTAL				892	515														2		7		3				4	2				9								11	3	74	74	

REVISION DATES

GEORGIA REGISTERED No. 030458 PROFESSIONAL ENGINEER 08/26/2021 CHARLES CHRISTOPHER KING

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Expiration Date 06/30/2022

SUMMARY QUANTITIES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		06-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

PVMT MARKING QUANTITY

	PREFORMED PLASTIC SOLID PVMT MKG, 24 IN, WHITE, TP PB	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, WHITE, TP PB	PREFORMED PLASTIC SOLID PVMT MKG, 10 IN, WHITE, TP PB	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW) TP PB	PREFORMED PLASTIC PAVEMENT MARKING, WHITE, TP PB	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	THERMOPLASTIC TRAF STRIPING, WHITE	SOLID TRAF STRIPE, 5 IN, WHITE
LOCATION	LF	LF	LF	LF	SY	LF	LF	LF	LF	SY	LF
PARK AND RIDE SITE	16	437	42	826	227	24	372	575	218	75	5261
AS DIRECTED BY ENGINEER	2	43	8	84	23	6	38	55	22	10	529
TOTAL	18	480	50	910	250	30	410	630	240	85	5790

ITS QUANTITIES

DESCRIPTION	UNIT	QUANTITY
MICROWAVE VEHICLE DETECTION UNIT	EA	1
*MVDS COMMUNICATIONS MODULE	EA	1
*COMMUNICATIONS CABLES	LF	80

*COST TO BE INCLUDED IN PRICE BID FOR MICROWAVE VEHICLE DETECTION UNIT

ARROWS (EACH)

DESCRIPTION	QUANTITY		
	PAINT	THERMOPLASTIC	PREFORMED PLASTIC
TYPE 1			
TYPE 2		2	1
TYPE 3		1	
SPECIAL	*4		

ALL ARROWS SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEE PLANS

*SMALL PAINTED TP 1 ARROW - SEE SHEET 38-0002, DETAIL 5

WORDS (EACH)

DESCRIPTION	QUANTITY		
	PAINT	THERMOPLASTIC	PREFORMED PLASTIC
TYPE 1		2	
TYPE 2			1
TYPE 6		2	
SPECIAL	*2		

ALL WORDS SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEE PLANS

*SPECIAL WORD "LOADING UNLOADING" - 12" HIGH, WHITE STENCIL LETTERING

SYMBOLS (EACH)

DESCRIPTION	QUANTITY		
	PAINT	THERMOPLASTIC	PREFORMED PLASTIC
HANDICAP	8		

ALL WORDS SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEE PLANS

MISC. CONSTRUCTION -
ON-SITE DECORATIVE SIGNAGE (OUTSIDE R/W)

SIGN CODE	SIGN DESCRIPTION	SIZE	DECORATIVE SIGN QUANTITY, EA.	STANDARD GDOT POST QUANTITY, EA.	COMMENTS
R1-1	STOP SIGN	30"X30"	8		
R5-1	DO NOT ENTER SIGN	30"X30"	2		
R6-2r	ONE WAY SIGN	24"X30"		1	
R7-8	HANDICAP SIGN	12"X18"	8		
R7-8a	VAN ACCESSIBLE	6"X18"	3		MOUNT UNDERNEATH DECORATIVE RESERVED PARKING HANDICAP SIGN
R560-5	PEDESTRIAN CROSSING SIGN	24"X30"	7	1	
W7-1	HILL SIGN	36"X36"	1		
W13-1	ADVISORY SPEED SIGN	24"X24"	1		
SPECIAL DESIGN	BUSES ONLY SIGN	12"X18"	2		
SPECIAL DESIGN	KISS AND RIDE SIGN	12"X12"	4		
SPECIAL DESIGN	NO TRESPASSING SIGN	12"X18"	3		
SPECIAL DESIGN	STEEP HILL NO WHEEL CHAIR ALLOWED	12"X18"	4		
SPECIAL DESIGN	PARK AND RIDE RULES SIGN (FOR SIGNS MOUNTED ON LIGHT POLES, INCLUDES SIGN PANEL, FRAME & MOUNTING HARDWARE)	12"X18"	11		(2) MOUNTED ON LIGHT POLES, (9) MOUNTED ON DECORATIVE SIGN POST (5 ON SAME POST AS NO COMMERCIAL VEHICLES SIGNS)
SPECIAL DESIGN	NO COMMERCIAL VEHICLES OR RV'S ALLOWED IN PARKING LOT SIGN	18"X24"	13		(2) MOUNTED ON LIGHT POLES, (2) MOUNTED ON PEDESTRIAN CROSSING SIGNS, (1) MOUNTED ON STOP SIGN, (5) MOUNTED ON PARK AND RIDE RULES SIGNS, (1) ON NO TRESPASSING SIGN, (2) MOUNTED ON DECORATIVE SIGN POST (STAND ALONE)
D9-11b (Alternate)	ELECTRIC VEHICLE CHARGING STATION SIGN (BY OTHERS)	12"X12"	4		

NOTE:
ALL SIGN PANELS TO BE MOUNTED ON THE DECORATIVE POSTS OR OTHERWISE AS NOTED ABOVE. ALL SIGNS WITHIN THE PARK AND RIDE FACILITY (OUTSIDE RIGHT-OF-WAY) SHALL BE PAID FOR AS DECORATIVE POST COMPLETE (UNIT EACH). DECORATIVE POST COMPLETE INCLUDES SIGN PANEL, DECORATIVE POST / FINAL, DECORATIVE FRAME AND THE FOUNDATION. THE PANELS SHALL BE TP 1, MATL REFL SHEETING, TP 11

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 030418 PROFESSIONAL ENGINEER 09/30/2021 CHARLES CHRISTOPHER KING

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Expiration Date 06/30/2022

REVISION DATES
9/30/2021

SUMMARY QUANTITIES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 06-0004

CCTV AND CMS (BY OTHERS)

DESCRIPTION (INTEGRATOR TO INSTALL THE BELOW EQUIPMENT OR APPROVED EQUAL)	UNIT	QUANTITY
AVIGILON 3.0C-H4A-B02-IR	EA	6
AVIGILON 1.0C-H4A-D01-IR	EA	6
AVIGILON 15C-H4A-3MH-270	EA	8
AVIGILON 20C-H4A-4MH-360	EA	8
AVIGILON 15C-H4A-3MH-180	EA	1
AVIGILON H4-3.C-HD-LP-B1 W/ES-HD-LP-HS	EA	2
HD BULLET CAMERA JUNCTION BOX AVIGILON H3-BO-JB	EA	0
POLE MOUNTING BRACKET WITH STRAPS	EA	11
CAMERA AND FIBER INTERFACE CABINETS (CIB & FIB)	EA	30
MEDIA CONVERTERS	EA	40
SFP FOR MEDIA CONVERTER	EA	40
48V DC DEN RAIL POWER SUPPLIES	EA	30
MID SPAN POE POWER INJECTORS	EA	31
6 FIBER OM3 OUTSIDE FIBER CABLE COMMSCOPE Z-006-D55M-FSUBK	LF	8500
CALL BOX OUTDOOR 24 AWG CABLE	SPOOL	4
OUTDOOR DATA CABLE COMMSCOPE 5NF4	LF	500
LIQUIDTIGHT FLEX CONDUIT FOR DATA CABLE INSIDE POLES	LF	500
LIQUIDTIGHT 90° FLEX CONDUIT FITTING	EA	100
NETWORK SWITCH - CISCO 3850 OR EQUIVALENT	EA	1
CHANGEABLE MESSAGE SIGN - DEKTRONICS GALAXY AF-6710-64X128-6-RGB-DF; MOUNTED TO FRONT OF BUS SHELTERS	EA	6
CHANGEABLE MESSAGE SIGN - DEKTRONICS GALAXY AF-6710-32X256-6-RGB-SF; ENTRANCE SIGNS	EA	1
CHANGEABLE MESSAGE SIGN - DEKTRONICS GALAXY AF-6710-96X256-6-RGB-SF; MOUNTED TO BACK OF BUS SHELTERS	EA	1

LANDSCAPE

DESCRIPTION	UNIT	QUANTITY
PERMANENT GRASSING - NATIVE GRASS SEED MIX (SEGR)	AC	1
AGRICULTURAL LIME	SEE PERMANENT EROSION CONTROL BOX FOR QTYS.	
FERTILIZER MIXED GRADE	SEE PERMANENT EROSION CONTROL BOX FOR QTYS.	
FERTILIZER NITROGEN CONTENT	SEE PERMANENT EROSION CONTROL BOX FOR QTYS.	
SOD - BERMUDA TIFTUF	SY	1525
LANDSCAPE MULCH - PINE STRAW MULCH - 4" THICK LAYER	SY	3000
PLANT TOPSOIL	CY	650
ACER RUBRUM 'OCTOBER GLORY' - 3 IN. CAL.	EA	11
QUERCUS PHELLOS 'HIGHTOWER' - 3 IN. CAL.	EA	21
ULMUS PARVIFOLIA 'EMMER II' ALLEE - 3 IN. CAL.	EA	17
CAMELLIA SASANQUA 'SETSUGEKKA' - 7 GAL.	EA	12
DISTYLIUM 'CINNAMON GIRL' - 3 GAL.	EA	70
DISTYLIUM 'VINTAGE JADE' - 3 GAL.	EA	64
HYDRANGEA PANICULATA 'JANE' (LITTLE LIME HYDRANGEA) - 3 GAL.	EA	42
ILEX CORNUTA 'DWARF BUFORD' - 3 GAL.	EA	27
ILEX VOMITORIA 'NANA' - 3 GAL.	EA	367
JUNIPERUS DAVURICA EXPANSA 'PARSONII' - 3 GAL.	EA	291
LOROPETALUM CHINESE 'SHANG-HI' (PURPLE DIAMOND LOROPETALUM) - 3 GAL.	EA	129
MISCANTHUS SINENSIS 'GRACILLIMUS NANA' (DWARF MAIDEN GRASS) - 3 GAL.	EA	374
MUHLENBERGIA CAPILLARIS 'LENCA' - 3 GAL.	EA	28
ROSA 'MEIJOCOS' PINK DRIFT - 3 GAL.	EA	152
FICUS PUMILA - 1 GAL.	EA	83
LIRIOPE 'SPICATA' - 4" POT	EA	2551
TRACHELOSPERMUM ASIATICUM - 4" POT	EA	3032
SLATE CHIP GRAVEL	TN	5

SITE FURNISHINGS

DESCRIPTION	UNIT	QUANTITY
BENCH	EA	18
LEANING RAIL	EA	24
BLAST RESISTANT WASTE RECEPTACLE UNIT	EA	5
BICYCLE RACK	EA	8
BOLLARD (FIXED)	EA	63
BOLLARD (REMOVABLE)	EA	4
BOLLARD (PRE-CAST CONCRETE)	EA	14
BOLLARD (PVC FILLED)	EA	2
MISC. CONSTRUCTION - ADVERTISING/MAP CASE DISPLAY	LS	1
EMERGENCY CALL BOX	EA	7

FENCING AND RAILING

DESCRIPTION	UNIT	QUANTITY
DECORATIVE FENCE/RAILING - 42" HT.	LF	1011
DECORATIVE FENCE/RAILING - 72" HT.	LF	95
CH LK FENCE. PVC.6 FT. 9 GA - BLACK	LF	825
GATE. CHAIN LINK PVC COAT - BLACK; 6 FT HT; DOUBLE SWING GATE 24' WIDE; LOCKABLE	EA	1
FIELD FENCE WOVEN WIRE	LF	452

GUARDRAIL

GA. STDS. 4380, 4381, 4382, 4383, 4384, & 4385

LOCATION (STATION)	"T" BEAM	TYPE I ANCHOR GA. STD. 4383
	LF	EACH
PARK AND RIDE SITE - ACCESS DRIVE	34	1
PARK AND RIDE SITE - N. BROWN ROAD	189	2
SUBTOTAL	223	3
AS DIRECTED BY ENGINEER	12	
GRANDTOTAL	235	3

NOTE: THE ACTUAL BEGINNING AND ENDING OF THE GUARDRAIL MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SANITARY QUANTITIES

DESCRIPTION	UNIT	QUANTITY
RECONSTR SAN SEW MANHOLE. TYPE 1	EA	1
STEEL CASING. 16 IN	LF	86
CLASS A CONCRETE. INCL REINF STEEL. CONCRETE ENCASEMENT 16" DIP	CY	29

WATER QUANTITIES

DESCRIPTION	UNIT	QUANTITY
CONNECTION TO EXISTING 8 IN WATER MAIN	LS	1
WATER METER. 3/4 IN	EA	1
BACKFLOW PREVENTION ASSEMBLY.¾IN	EA	1
WATER SERVICE LINE. 3/4 IN	LF	440
DBL STRAP SADDLE - 8 IN X 3/4 IN	EA	1
FIRE HYDRANT	EA	1
SAN SEWER PIPE. 6 IN. DUCTILE IRON	LF	10
8 IN X 6 IN REDUCER	EA	1
GATE VALVE. 6 IN	EA	1
SAN SEWER PIPE. 8 IN. DUCTILE IRON	LF	175
8 IN 45 DEGREE BEND	EA	2
CONCRETE VAULT - 15' X 9' W/ DOUBLE CHECK VALVE ASSEMBLY	EA	1
GATE VALVE. 8 IN	EA	1

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 030448 PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING 08/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

SUMMARY QUANTITIES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		06-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY
9/30/2021	657-1084	9/30/2021	1	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, WHITE, TP PB	LF	480	0
9/30/2021	657-1110	9/30/2021	1	PREFORMED PLASTIC SOLID PVMT MKG, 11 IN, CONTRAST (BLACK-WHITE), TP PB	LF	0	480
9/30/2021	441-5003	9/30/2021	1	CONCRETE HEADER CURB, 8 IN, TP 3	LF	1080	0
9/30/2021	441-5008	9/30/2021	1	CONCRETE HEADER CURB, 6 IN, TP 7	LF	0	940
9/30/2021	441-0748	9/30/2021	1	CONCRETE MEDIAN, 6 IN	SY	0	90
9/30/2021	573-2006	9/30/2021	1	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN - AS DIRECTED BY ENGINEER FOR WET SUBGRADE ENCOUNTERED	LF	0	250
9/30/2021	318-3000	9/30/2021	1	AGGR SURF CRS - AS DIRECTED BY ENGINEER	TN	0	300
9/30/2021	603-7000	9/30/2021	1	PLASTIC FILTER FABRIC	SY	284	344
9/30/2021	641-5001	9/30/2021	1	GUARDRAIL ANCHORAGE, TP 1	EA	3	2
9/30/2021	641-5015	9/30/2021	1	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY-ABSORBING	EA	0	1

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 030458 PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING 09/30/2021

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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
9/30/2021

QUANTITIES (AMENDMENT)

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		07-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

CASE NUMBER : 2020-00316

ATKINS
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REVISION DATES

QUANTITIES (CONSTRUCTION)

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

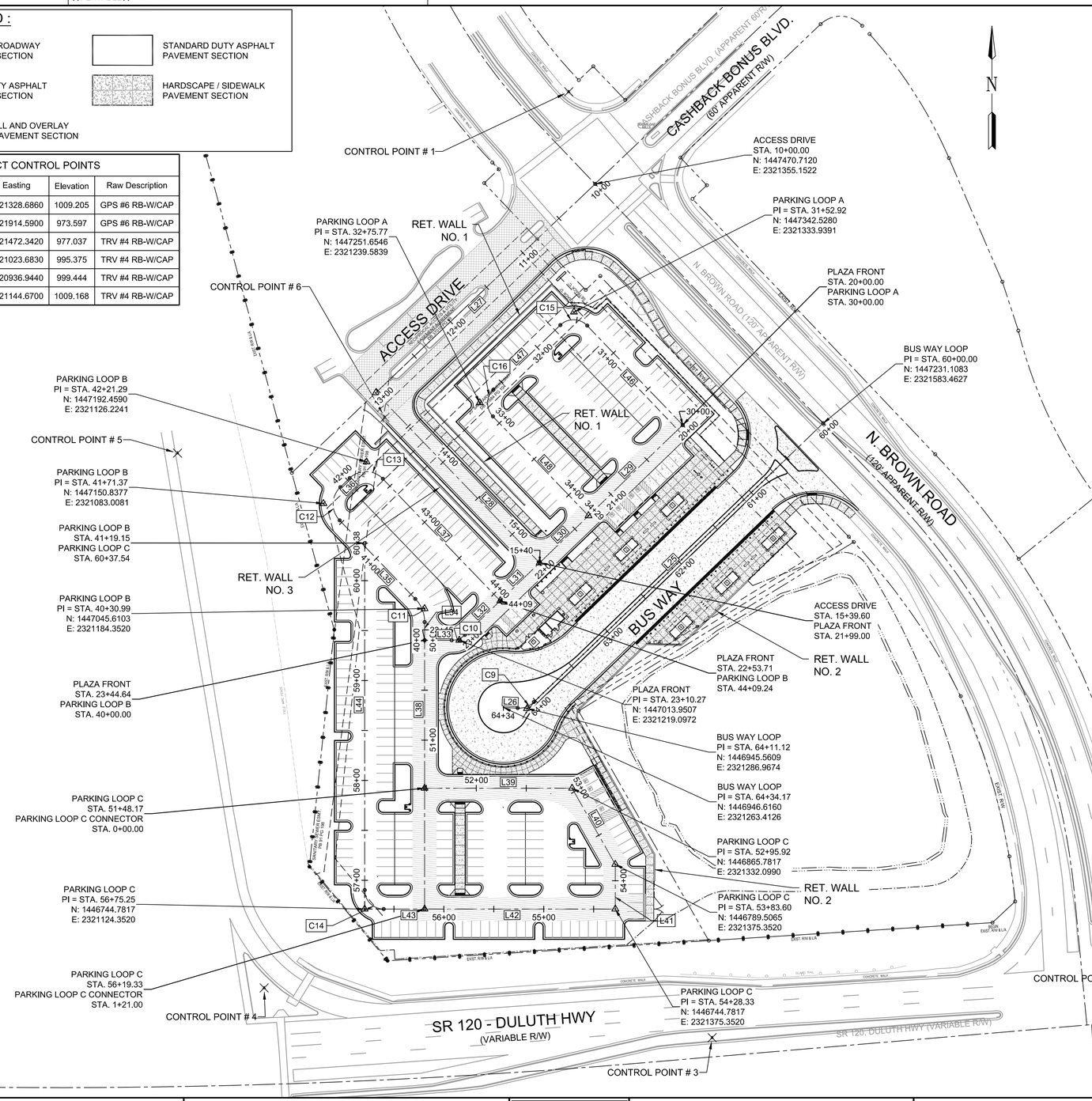
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		08-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- MEDIUM DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION
- ASPHALT MILL AND OVERLAY ROADWAY PAVEMENT SECTION

PROJECT CONTROL POINTS

Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
2	1446722.5530	2321914.5900	973.597	GPS #6 RB-W/CAP
3	1446616.0800	2321472.3420	977.037	TRV #4 RB-W/CAP
4	1446665.8680	2321023.6830	995.375	TRV #4 RB-W/CAP
5	1447201.2730	2320936.9440	999.444	TRV #4 RB-W/CAP
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP



Line Table

Line #	Length	Direction
L25	402.19'	S46°04'37"W
L26	14.13'	N87°25'41"W
L27	303.17'	S46°25'13"W
L28	236.43'	S43°55'23"E
L29	131.00'	S46°04'37"W
L30	68.00'	S46°04'37"W
L31	54.71'	S46°04'37"W
L32	49.27'	S46°04'37"W
L33	27.08'	N90°00'00"W
L34	18.15'	N0°00'00"E
L35	109.09'	N43°55'23"W
L36	13.00'	N46°04'37"E
L37	169.50'	S43°55'23"E
L38	148.17'	S0°00'00"E
L39	147.75'	N90°00'00"E
L40	87.69'	S29°33'22"E
L41	44.72'	S0°00'00"E
L42	191.00'	N90°00'00"W
L43	41.00'	N90°00'00"W
L44	347.37'	N0°00'00"E
L45	121.00'	S0°00'00"E
L46	138.00'	N43°55'24"W
L47	93.00'	S46°04'37"W
L48	138.00'	S43°55'23"E

Curve Data

Curve #	
C9	BUS WAY LOOP PI STA =64+11.64 N: 1446945.5578 E: 2321286.9698 DELTA =46°29'42" D= 260°26'07" T= 9.45' L= 17.85' R= 22.00'

Curve Data

Curve #	
C10	PLAZA FRONT PI STA =23+10.65 N: 1447013.9507 E: 2321219.0972 DELTA =43°55'23" D= 301°33'24" T= 7.66' L= 14.57' R= 19.00'

Curve Data

Curve #	
C11	PARKING LOOP B PI STA =40+31.66 N: 1447045.6103 E: 2321184.3520 DELTA =43°55'23" D= 171°01'56" T= 13.51' L= 25.68' R= 33.50'

Curve Data

Curve #	
C12	PARKING LOOP B PI STA =41+76.42 N: 1447150.8377 E: 2321083.0081 DELTA =89°59'59" D= 243°48'43" T= 23.50' L= 36.91' R= 23.50'

Curve Data

Curve #	
C13	PARKING LOOP B PI STA =42+26.33 N: 1447192.4590 E: 2321126.2241 DELTA =90°00'00" D= 243°48'43" T= 23.50' L= 36.91' R= 23.50'

Curve Data

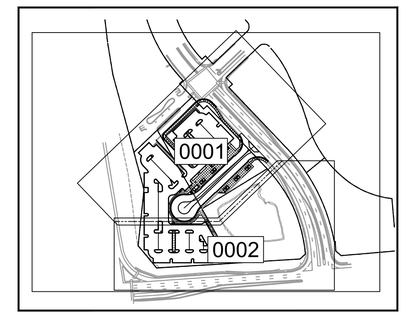
Curve #	
C14	PARKING LOOP C PI STA =56+79.33 N: 1446744.7817 E: 2321124.3520 DELTA =90°00'00" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'

Curve Data

Curve #	
C15	PARKING LOOP A PI STA =31+57.00 N: 1447342.5280 E: 2321333.9391 DELTA =89°59'59" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'

Curve Data

Curve #	
C16	PARKING LOOP A PI STA =32+79.85 N: 1447251.6546 E: 2321239.5839 DELTA =90°00'00" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'



KEY MAP

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001.
2. PROJECT LOCATION: LAND LOTS 80 & 81, DISTRICT 7, GWINNETT COUNTY, GEORGIA. ASSIGNED ADDRESS IS 2115 NORTH BROWN ROAD.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. REFER TO DRAWING 11-0003 AND 11-0004 AND ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
5. NO GATES WILL BE ALLOWED ALONG THE L/A ON INTERSTATE RIGHTS OF WAY.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0002.
7. THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA: "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155; MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006".
8. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.
9. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.
10. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.
11. PARCEL IS ZONED C-2. TOTAL PROJECT AREA = ± 5.49 AC.
12. CONTRACTOR TO PRESSURE WASH ENTIRE WORK AREA, INCLUDING THE CURB AND GUTTER ON N. BROWN ROAD, UPON COMPLETION OF CONSTRUCTION AND PRIOR TO ACCEPTANCE BY SRTA (COST TO BE INCLUDED IN GRADING COMPLETE).

CASE NUMBER : 2020-00316

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
SANITARY SEWER EASEMENT
POND
GDOT R/W AND LIMITED ACCESS

PROFESSIONAL ENGINEER No. 21371 8/26/2021 GEORGE N. KAKLIGNES

ATKINS
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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

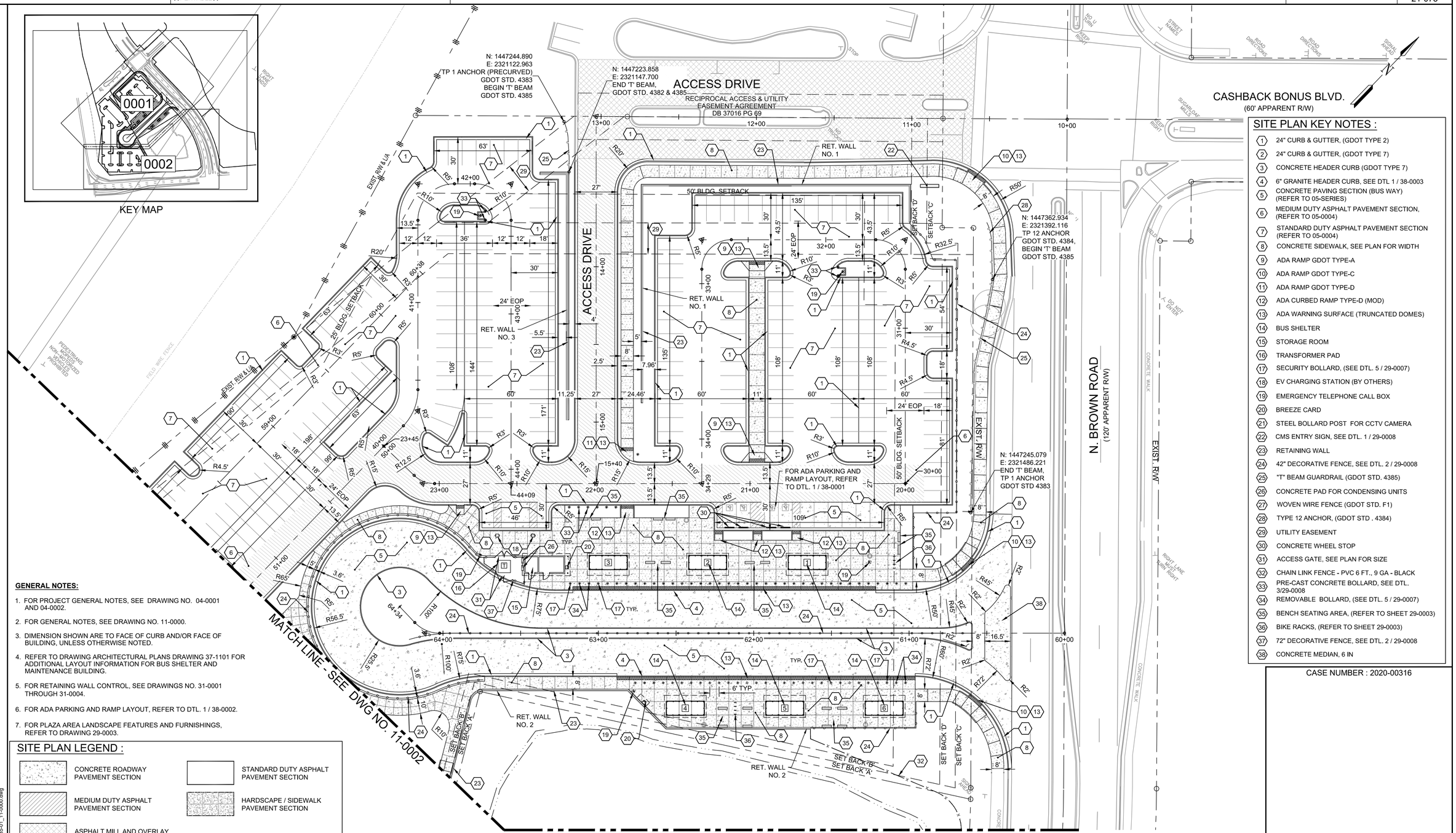
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

OVERALL CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		11-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		



SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
2. 24" CURB & GUTTER, (GDOT TYPE 7)
3. CONCRETE HEADER CURB (GDOT TYPE 7)
4. 6" GRANITE HEADER CURB, SEE DTL 1 / 38-0003
5. CONCRETE PAVING SECTION (BUS WAY) (REFER TO 05-SERIES)
6. MEDIUM DUTY ASPHALT PAVEMENT SECTION, (REFER TO 05-0004)
7. STANDARD DUTY ASPHALT PAVEMENT SECTION (REFER TO 05-0004)
8. CONCRETE SIDEWALK, SEE PLAN FOR WIDTH
9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
12. ADA CURBED RAMP TYPE-D (MOD)
13. ADA WARNING SURFACE (TRUNCATED DOMES)
14. BUS SHELTER
15. STORAGE ROOM
16. TRANSFORMER PAD
17. SECURITY BOLLARD, (SEE DTL. 5 / 29-0007)
18. EV CHARGING STATION (BY OTHERS)
19. EMERGENCY TELEPHONE CALL BOX
20. BREEZE CARD
21. STEEL BOLLARD POST FOR CCTV CAMERA
22. CMS ENTRY SIGN, SEE DTL. 1 / 29-0008
23. RETAINING WALL
24. 42" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 4384)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. ACCESS GATE, SEE PLAN FOR SIZE
32. CHAIN LINK FENCE - PVC 6 FT., 9 GA - BLACK
33. PRE-CAST CONCRETE BOLLARD, SEE DTL. 3/29-0008
34. REMOVABLE BOLLARD, (SEE DTL. 5 / 29-0007)
35. BENCH SEATING AREA, (REFER TO SHEET 29-0003)
36. BIKE RACKS, (REFER TO SHEET 29-0003)
37. 72" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
38. CONCRETE MEDIAN, 6 IN

CASE NUMBER : 2020-00316

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
5. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
6. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.
7. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- MEDIUM DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION
- ASPHALT MILL AND OVERLAY ROADWAY PAVEMENT SECTION

- EX BARBED WIRE FENCE
- PROPOSED PROPERTY/ROW LINE
- PROPOSED CENTERLINE
- PROPOSED FENCE
- LAND LOT LINE
- SANITARY SEWER EASEMENT
- POND
- GDOT R/W AND LIMITED ACCESS

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 9/30/2021 GEORGE N. KANUNES

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	11-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

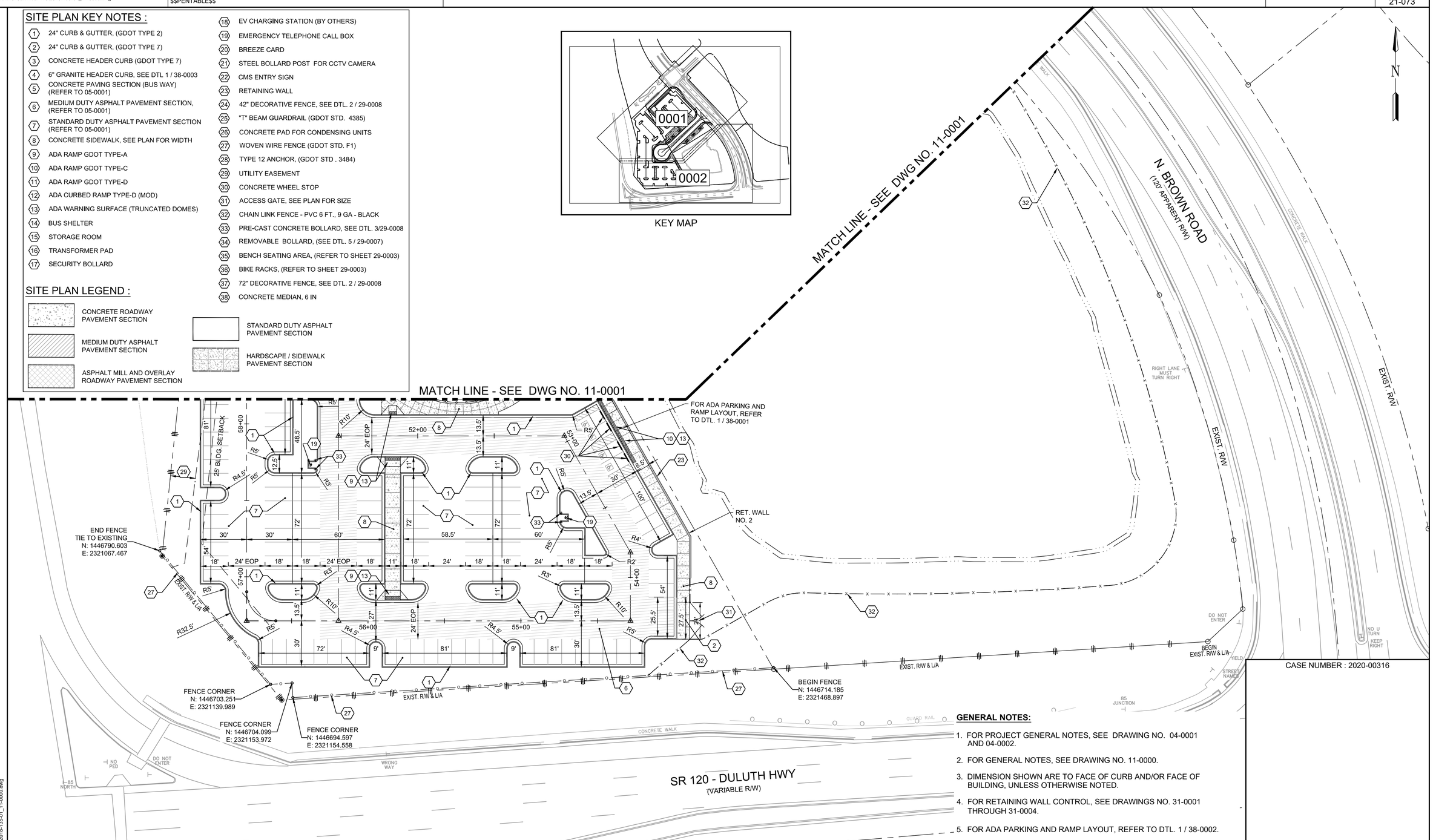
SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
2. 24" CURB & GUTTER, (GDOT TYPE 7)
3. CONCRETE HEADER CURB (GDOT TYPE 7)
4. 6" GRANITE HEADER CURB, SEE DTL 1 / 38-0003
5. CONCRETE PAVING SECTION (BUS WAY) (REFER TO 05-0001)
6. MEDIUM DUTY ASPHALT PAVEMENT SECTION, (REFER TO 05-0001)
7. STANDARD DUTY ASPHALT PAVEMENT SECTION (REFER TO 05-0001)
8. CONCRETE SIDEWALK, SEE PLAN FOR WIDTH
9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
12. ADA CURBED RAMP TYPE-D (MOD)
13. ADA WARNING SURFACE (TRUNCATED DOMES)
14. BUS SHELTER
15. STORAGE ROOM
16. TRANSFORMER PAD
17. SECURITY BOLLARD
18. EV CHARGING STATION (BY OTHERS)
19. EMERGENCY TELEPHONE CALL BOX
20. BREEZE CARD
21. STEEL BOLLARD POST FOR CCTV CAMERA
22. CMS ENTRY SIGN
23. RETAINING WALL
24. 42" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 3484)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. ACCESS GATE, SEE PLAN FOR SIZE
32. CHAIN LINK FENCE - PVC 6 FT., 9 GA - BLACK
33. PRE-CAST CONCRETE BOLLARD, SEE DTL. 3/29-0008
34. REMOVABLE BOLLARD, (SEE DTL. 5 / 29-0007)
35. BENCH SEATING AREA, (REFER TO SHEET 29-0003)
36. BIKE RACKS, (REFER TO SHEET 29-0003)
37. 72" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
38. CONCRETE MEDIAN, 6 IN

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- MEDIUM DUTY ASPHALT PAVEMENT SECTION
- ASPHALT MILL AND OVERLAY ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION

KEY MAP



CASE NUMBER : 2020-00316

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
5. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.

EX BARBED WIRE FENCE	—x—x—
PROPOSED PROPERTY/ROW LINE	
PROPOSED CENTERLINE	
PROPOSED FENCE	—x—x—
LAND LOT LINE	
SANITARY SEWER EASEMENT	
POND	
GDOT R/W AND LIMITED ACCESS	

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 21371 9/30/2021 GEORGE N. KAKUNDES

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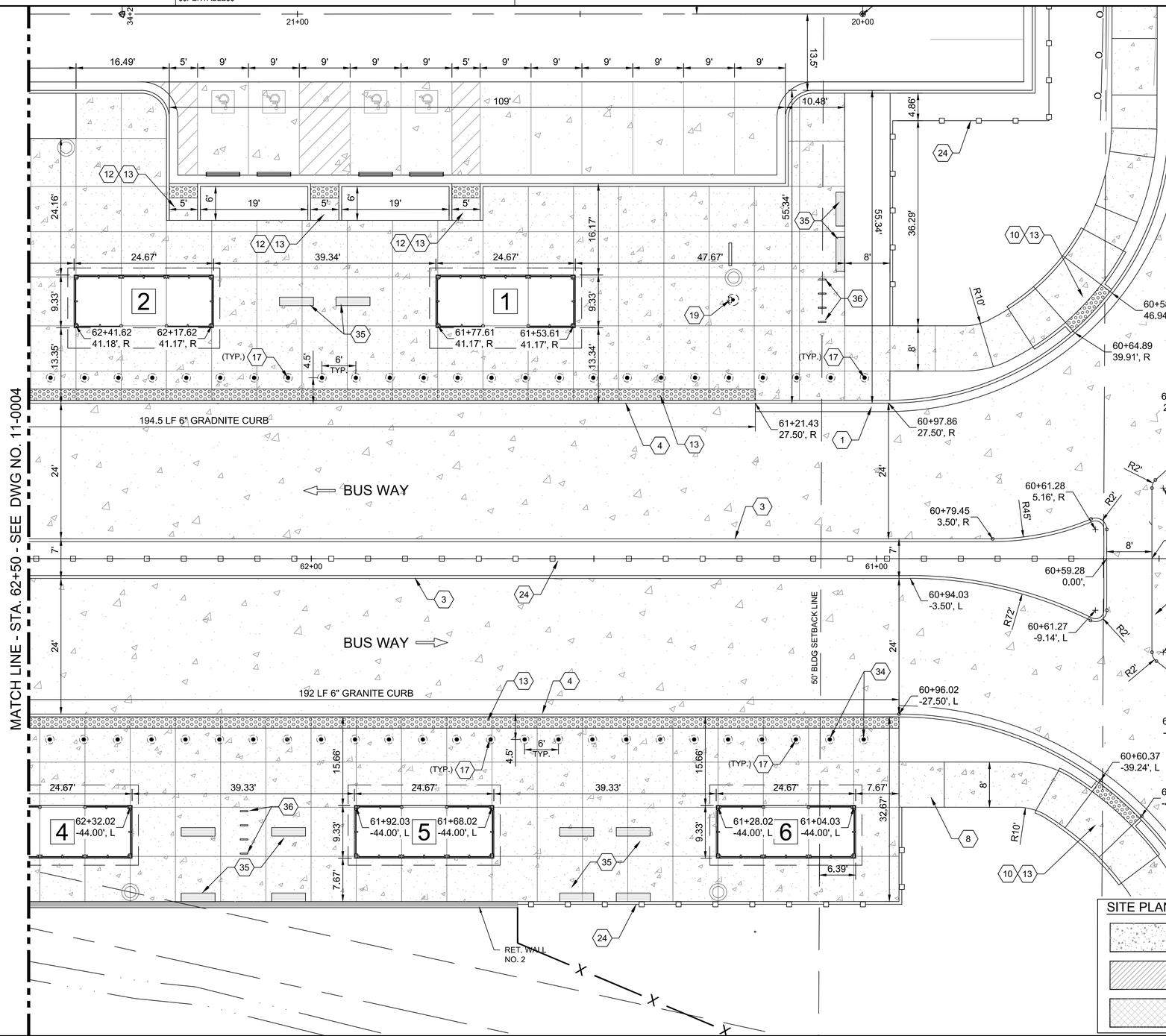
(IN FEET)
1 inch = 30 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		11-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. FOR KEYNOTE LEGEND, SEE THIS SHEET.
4. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
5. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
7. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.

SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
2. 24" CURB & GUTTER, (GDOT TYPE 7)
3. CONCRETE HEADER CURB (GDOT TYPE 7)
4. 6" GRANITE HEADER CURB, SEE DTL 1 / 38-0003
5. CONCRETE PAVING SECTION (BUS WAY) (REFER TO 05-SERIES)
6. MEDIUM DUTY ASPHALT PAVEMENT SECTION, (REFER TO 05-0004)
7. STANDARD DUTY ASPHALT PAVEMENT SECTION (REFER TO 05-0004)
8. CONCRETE SIDEWALK, SEE PLAN FOR WIDTH
9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
12. ADA CURBED RAMP TYPE-D (MOD)
13. ADA WARNING SURFACE (TRUNCATED DOMES)
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16. TRANSFORMER PAD
17. SECURITY BOLLARD, (SEE DTL. 5 / 29-0007)
18. EV CHARGING STATION (BY OTHERS)
19. EMERGENCY TELEPHONE CALL BOX
20. BREEZE CARD
21. STEEL BOLLARD POST FOR CCTV CAMERA
22. CMS ENTRY SIGN, SEE DTL. 1 / 29-0008
23. RETAINING WALL
24. 42" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 4384)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. ACCESS GATE, SEE PLAN FOR SIZE
32. CHAIN LINK FENCE - PVC 6 FT., 9 GA - BLACK
33. PRE-CAST CONCRETE BOLLARD, SEE DTL. 3/29-0008
34. REMOVABLE BOLLARD, (SEE DTL. 5 / 29-0007)
35. BENCH SEATING AREA, (REFER TO SHEET 29-0003)
36. BIKE RACKS, (REFER TO SHEET 29-0003)
37. 72" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
38. CONCRETE MEDIAN, 6 IN

CASE NUMBER : 2020-00316

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- MEDIUM DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION
- ASPHALT MILL AND OVERLAY ROADWAY PAVEMENT SECTION

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
SANITARY SEWER EASEMENT
POND
GDOT R/W AND LIMITED ACCESS

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

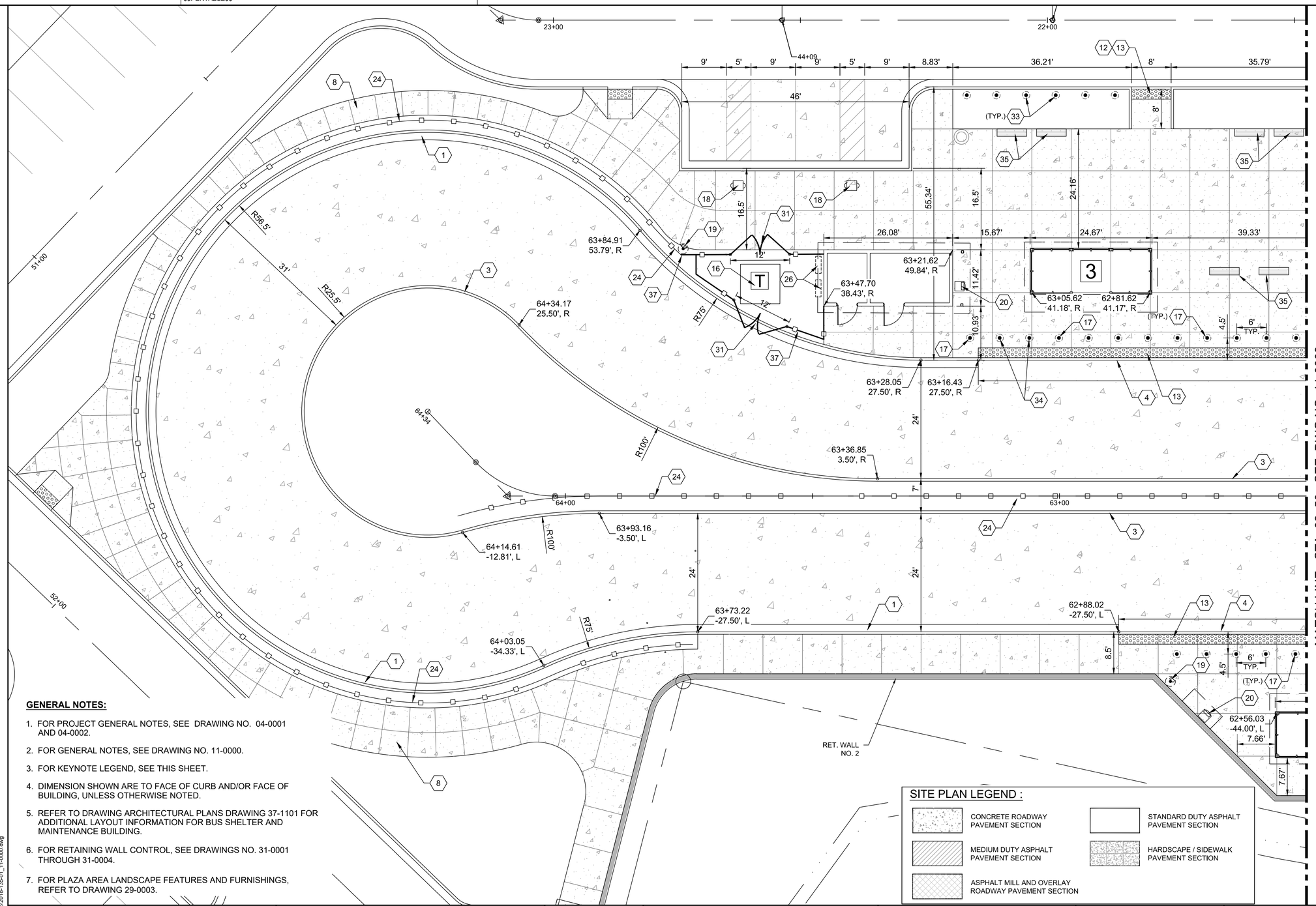
(IN FEET)
1 inch = 10 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

CONSTRUCTION LAYOUT
ENLARGED BUS WAY AND PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	11-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	



SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
2. 24" CURB & GUTTER, (GDOT TYPE 7)
3. CONCRETE HEADER CURB (GDOT TYPE 7)
4. 6" GRANITE HEADER CURB, SEE DTL 1 / 38-0003
5. CONCRETE PAVING SECTION (BUS WAY) (REFER TO 05-SERIES)
6. MEDIUM DUTY ASPHALT PAVEMENT SECTION, (REFER TO 05-0004)
7. STANDARD DUTY ASPHALT PAVEMENT SECTION (REFER TO 05-0004)
8. CONCRETE SIDEWALK, SEE PLAN FOR WIDTH
9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
12. ADA CURBED RAMP TYPE-D (MOD)
13. ADA WARNING SURFACE (TRUNCATED DOMES)
14. BUS SHELTER
15. STORAGE ROOM
16. TRANSFORMER PAD
17. SECURITY BOLLARD, (SEE DTL. 5 / 29-0007)
18. EV CHARGING STATION (BY OTHERS)
19. EMERGENCY TELEPHONE CALL BOX
20. BREEZE CARD
21. STEEL BOLLARD POST FOR CCTV CAMERA
22. CMS ENTRY SIGN, SEE DTL. 1 / 29-0008
23. RETAINING WALL
24. 42" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 4384)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. ACCESS GATE, SEE PLAN FOR SIZE
32. CHAIN LINK FENCE - PVC 6 FT., 9 GA - BLACK
33. PRE-CAST CONCRETE BOLLARD, SEE DTL. 3/29-0008
34. REMOVABLE BOLLARD, (SEE DTL. 5 / 29-0007)
35. BENCH SEATING AREA, (REFER TO SHEET 29-0003)
36. BIKE RACKS, (REFER TO SHEET 29-0003)
37. 72" DECORATIVE FENCE, SEE DTL. 2 / 29-0008
38. CONCRETE MEDIAN, 6 IN

CASE NUMBER : 2020-00316

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. FOR KEYNOTE LEGEND, SEE THIS SHEET.
4. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
5. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
7. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- MEDIUM DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION
- ASPHALT MILL AND OVERLAY ROADWAY PAVEMENT SECTION

EX BARBED WIRE FENCE	—x—x—
PROPOSED PROPERTY/ROW LINE	
PROPOSED CENTERLINE	
PROPOSED FENCE	—x—x—
LAND LOT LINE	
SANITARY SEWER EASEMENT	
POND	
GDOT R/W AND LIMITED ACCESS	

REGISTERED No. 21371 PROFESSIONAL ENGINEER GEORGE N. KARJUNES 9/30/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

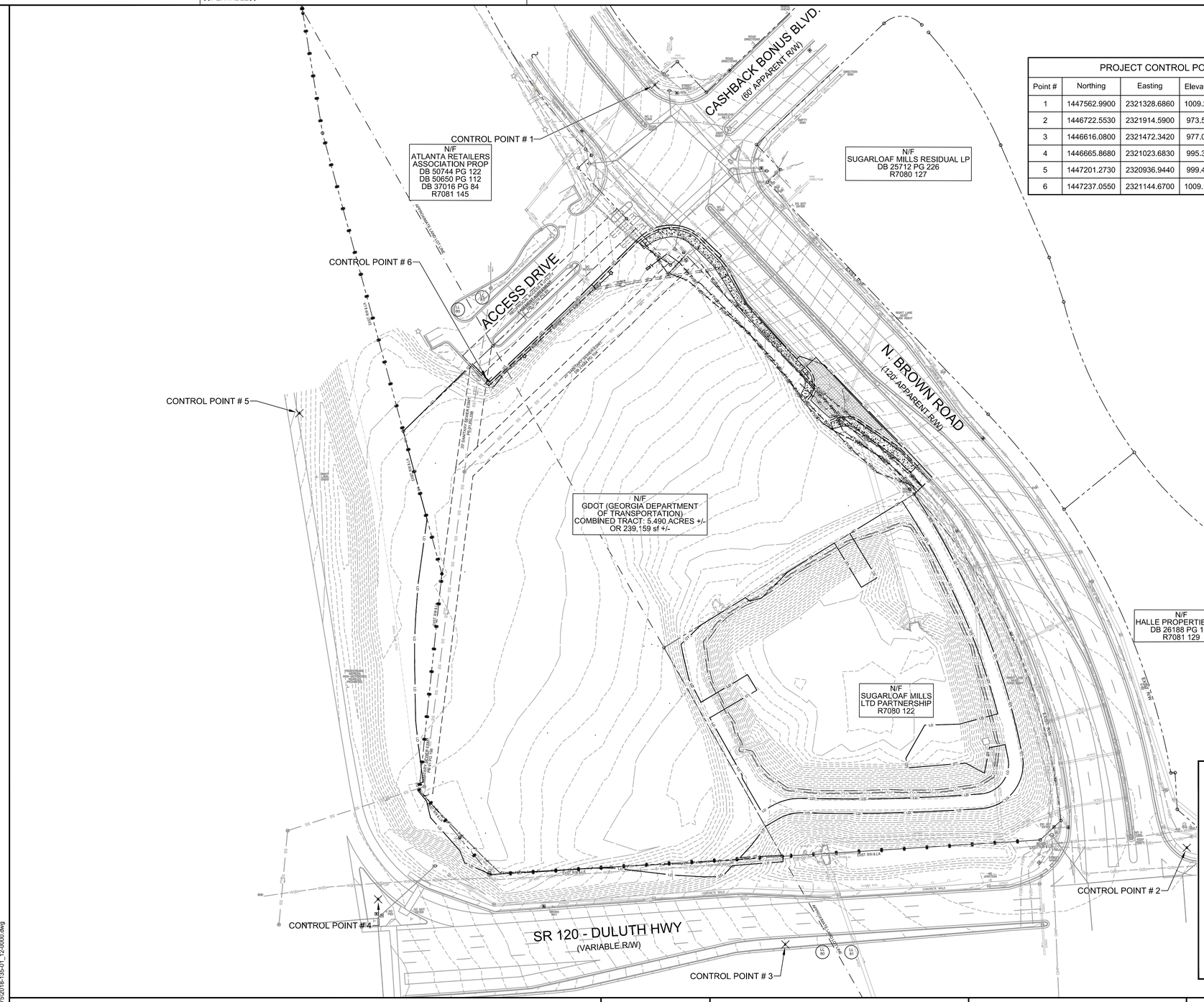
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

CONSTRUCTION LAYOUT
ENLARGED BUS WAY AND PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

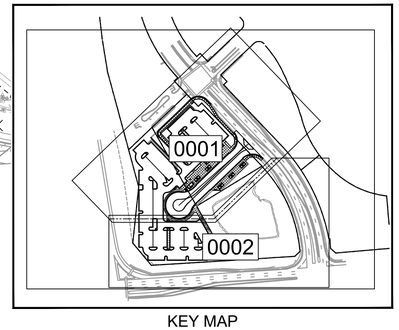
				DRAWING No.
CHECKED:		DATE:		11-0004
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



PROJECT CONTROL POINTS				
Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
2	1446722.5530	2321914.5900	973.597	GPS #6 RB-W/CAP
3	1446616.0800	2321472.3420	977.037	TRV #4 RB-W/CAP
4	1446665.8680	2321023.6830	995.375	TRV #4 RB-W/CAP
5	1447201.2730	2320936.9440	999.444	TRV #4 RB-W/CAP
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP

GENERAL DEMOLITION NOTES :

1. EXISTING INFORMATION AND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY INFORMATION AND LOCATIONS GIVEN ON DRAWINGS IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
2. CONTRACTOR MUST OBTAIN ALL PERMITS FROM STATE AND LOCAL AUTHORITIES PRIOR TO THE DEMOLITION AND REMOVAL OF ANY STRUCTURES, PAVING OR INFRASTRUCTURE.
3. CONTRACTOR MUST MAINTAIN ALL UTILITY SERVICE TO ALL ADJACENT STRUCTURES AND BUILDINGS AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO INSURE NO DISRUPTIONS OCCUR.
4. ALL DEBRIS, STRUCTURES, INFRASTRUCTURE, PIPES, TRENCH FILL , POLES, CABLE, PAVING AND ANY OTHER MATERIAL IDENTIFIED AND OR REQUIRED TO CONSTRUCT THE PROJECT FOR REMOVAL SHALL BE LEGALLY DISPOSED OF OFF-SITE AT A PERMITTED FACILITY.
5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION/DEMOLITION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH UTILITY OWNERS FOR RELOCATION OF ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS AND TRAFFIC CONTROL PLAN MEASURES FOR PROTECTION AND SAFETY OF THE PUBLIC. TRAFFIC CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING/MAINTAINING PEDESTRIAN ACCESS ALONG NORTH BROWN ROAD THROUGHOUT THE PROJECT CONSTRUCTION.
8. THE CONTRACTOR SHALL FIELD LOCATE (HORIZONTAL AND VERTICAL) THE EXISTING WATER MAIN ALONG DULUTH HIGHWAY AND NOTIFY ENGINEER. ADJUSTMENT MAY BE REQUIRED TO MAINTAIN MINIMUM DEPTH OF COVER.
9. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
10. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
11. CONTRACTOR SHALL LOCATE, CUT AND CAP THE EXISTING IRRIGATION SYSTEM, COORDINATE WITH ADJACENT PROPERTY OWNER TO CONFIRM AREA SERVED BY THE IRRIGATION SYSTEM AND WHETHER IT WILL REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION OF THE SRTA / ATL PROJECT.



KEY MAP

CASE NUMBER : 2020-00316

Certificate No. 21371 PROFESSIONAL 8/26/2021 ENGINEER GEORGEN. KAKUNIS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

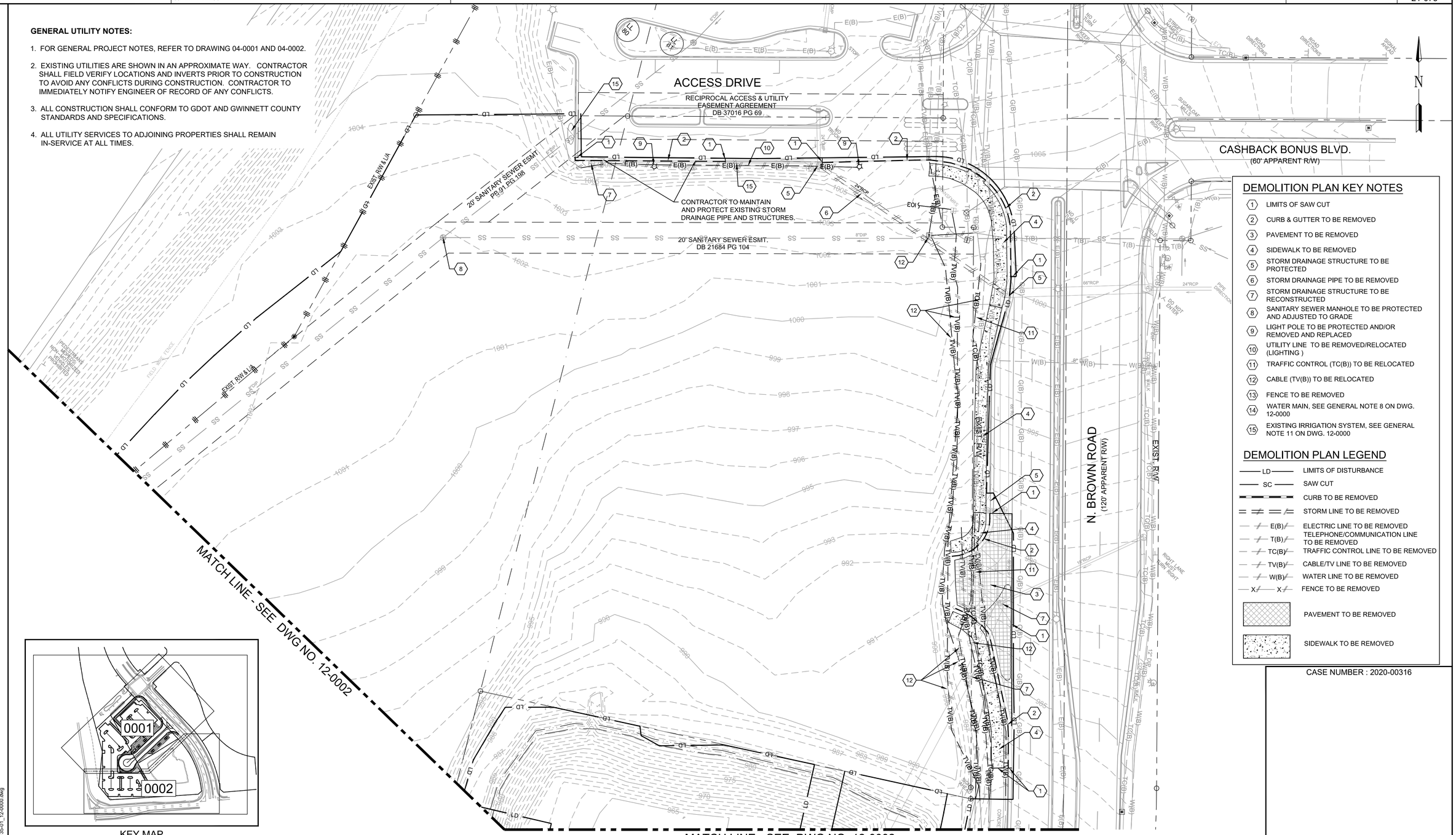
OVERALL EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		12-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.



DEMOLITION PLAN KEY NOTES

1. LIMITS OF SAW CUT
2. CURB & GUTTER TO BE REMOVED
3. PAVEMENT TO BE REMOVED
4. SIDEWALK TO BE REMOVED
5. STORM DRAINAGE STRUCTURE TO BE PROTECTED
6. STORM DRAINAGE PIPE TO BE REMOVED
7. STORM DRAINAGE STRUCTURE TO BE RECONSTRUCTED
8. SANITARY SEWER MANHOLE TO BE PROTECTED AND ADJUSTED TO GRADE
9. LIGHT POLE TO BE PROTECTED AND/OR REMOVED AND REPLACED
10. UTILITY LINE TO BE REMOVED/RELOCATED (LIGHTING)
11. TRAFFIC CONTROL (TC(B)) TO BE RELOCATED
12. CABLE (TV(B)) TO BE RELOCATED
13. FENCE TO BE REMOVED
14. WATER MAIN, SEE GENERAL NOTE 8 ON DWG. 12-0000
15. EXISTING IRRIGATION SYSTEM, SEE GENERAL NOTE 11 ON DWG. 12-0000

DEMOLITION PLAN LEGEND

- LD — LIMITS OF DISTURBANCE
- SC — SAW CUT
- CURB TO BE REMOVED
- STORM LINE TO BE REMOVED
- E(B) — ELECTRIC LINE TO BE REMOVED
- T(B) — TELEPHONE/COMMUNICATION LINE TO BE REMOVED
- TC(B) — TRAFFIC CONTROL LINE TO BE REMOVED
- TV(B) — CABLE/TV LINE TO BE REMOVED
- W(B) — WATER LINE TO BE REMOVED
- X — FENCE TO BE REMOVED
- PAVEMENT TO BE REMOVED
- SIDEWALK TO BE REMOVED

CASE NUMBER : 2020-00316

KEY MAP

REGISTERED No. 21371 PROFESSIONAL 8/26/2021 ENGINEER GEORGE N. KARLINIS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	12-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

KEY MAP

DEMOLITION PLAN KEY NOTES

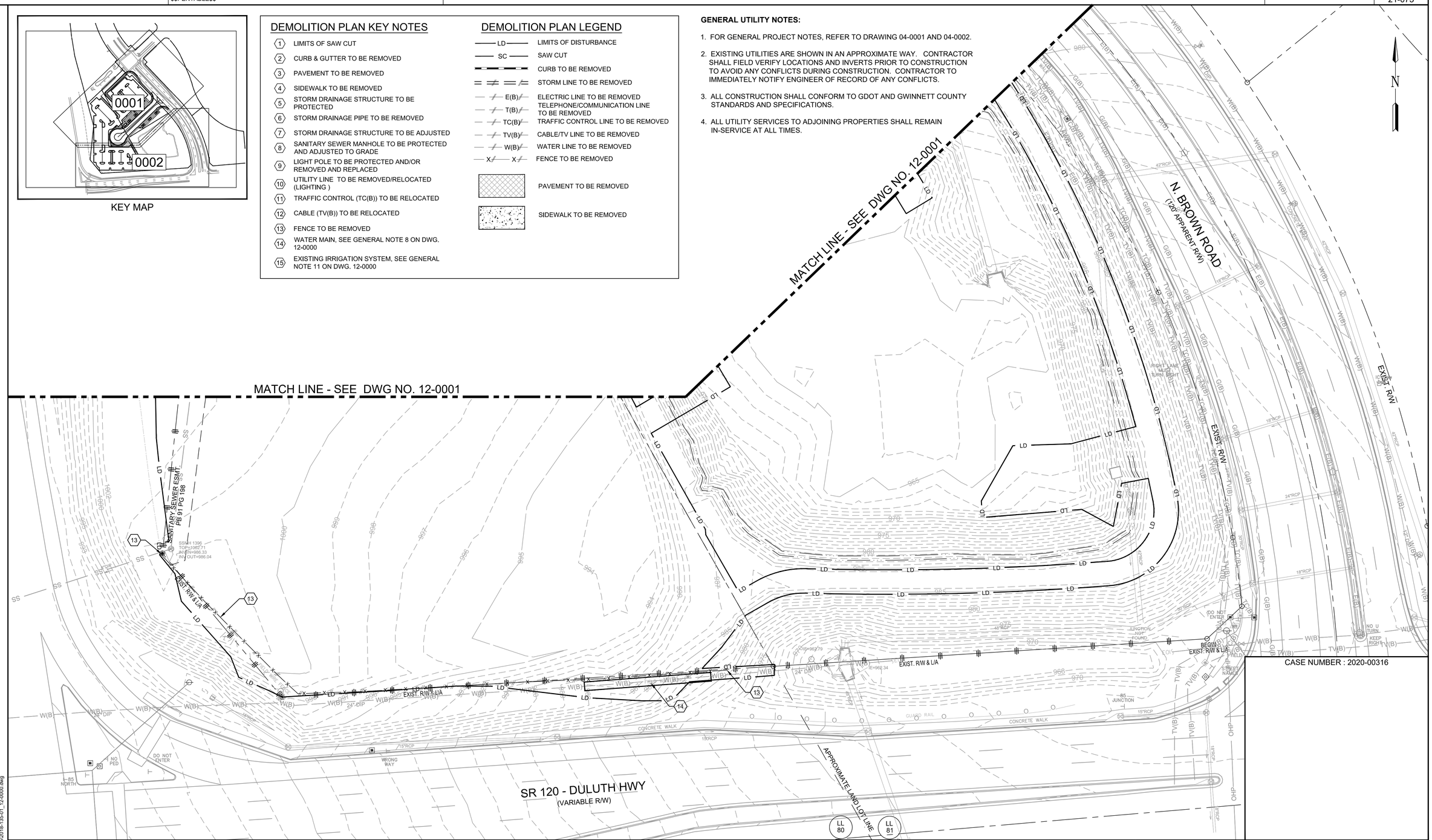
1. LIMITS OF SAW CUT
2. CURB & GUTTER TO BE REMOVED
3. PAVEMENT TO BE REMOVED
4. SIDEWALK TO BE REMOVED
5. STORM DRAINAGE STRUCTURE TO BE PROTECTED
6. STORM DRAINAGE PIPE TO BE REMOVED
7. STORM DRAINAGE STRUCTURE TO BE ADJUSTED
8. SANITARY SEWER MANHOLE TO BE PROTECTED AND ADJUSTED TO GRADE
9. LIGHT POLE TO BE PROTECTED AND/OR REMOVED AND REPLACED
10. UTILITY LINE TO BE REMOVED/RELOCATED (LIGHTING)
11. TRAFFIC CONTROL (TC(B)) TO BE RELOCATED
12. CABLE (TV(B)) TO BE RELOCATED
13. FENCE TO BE REMOVED
14. WATER MAIN, SEE GENERAL NOTE 8 ON DWG. 12-0000
15. EXISTING IRRIGATION SYSTEM, SEE GENERAL NOTE 11 ON DWG. 12-0000

DEMOLITION PLAN LEGEND

LD	LIMITS OF DISTURBANCE
SC	SAW CUT
	CURB TO BE REMOVED
	STORM LINE TO BE REMOVED
E(B)	ELECTRIC LINE TO BE REMOVED
T(B)	TELEPHONE/COMMUNICATION LINE TO BE REMOVED
TC(B)	TRAFFIC CONTROL LINE TO BE REMOVED
TV(B)	CABLE/TV LINE TO BE REMOVED
W(B)	WATER LINE TO BE REMOVED
X	FENCE TO BE REMOVED
	PAVEMENT TO BE REMOVED
	SIDEWALK TO BE REMOVED

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.



CASE NUMBER : 2020-00316

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

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

ATKINS
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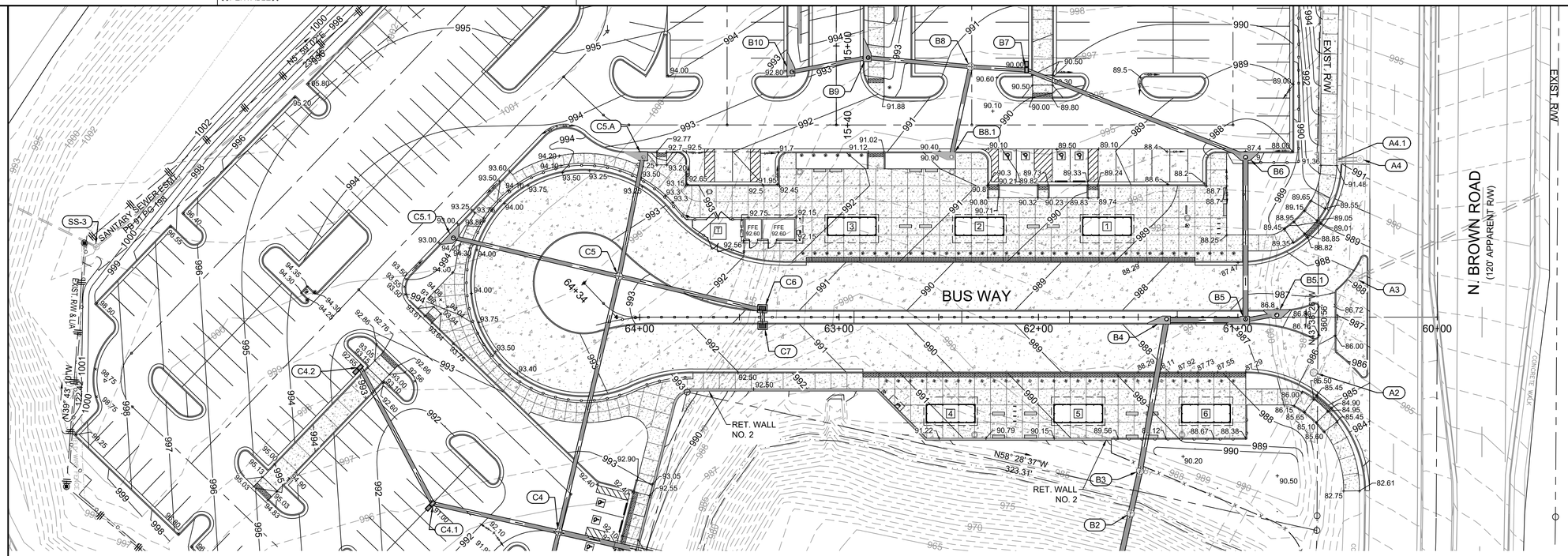
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

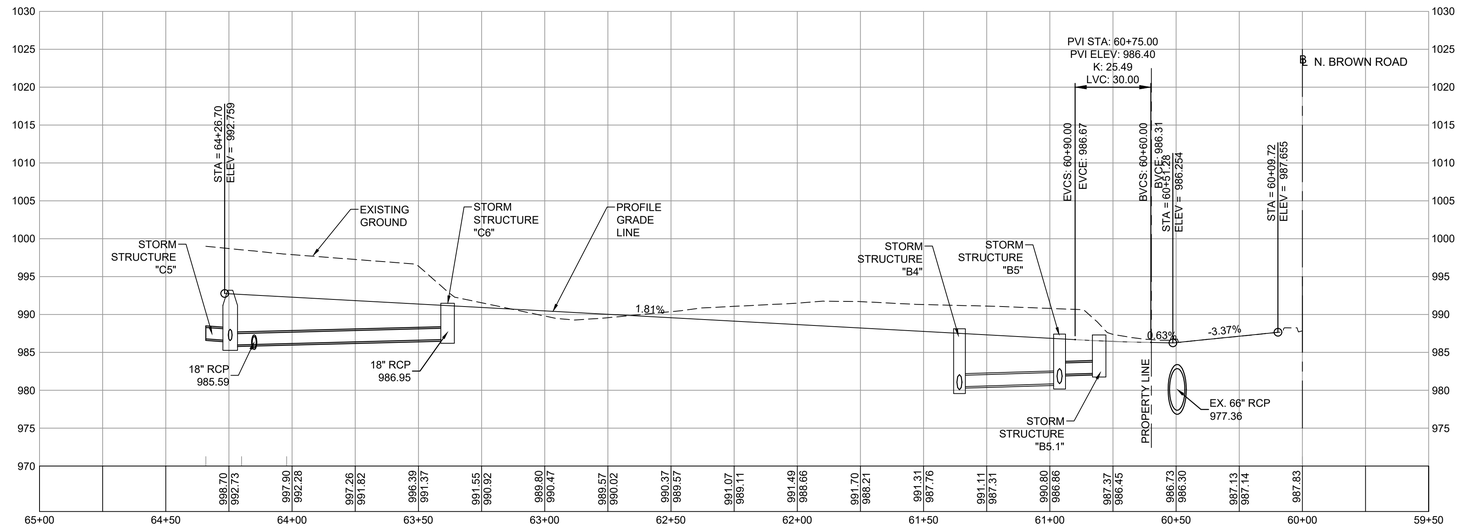
STATE OF GEORGIA
No. 21371
PROFESSIONAL ENGINEER
8/26/2021
GEORGE N. KAKUNDES

EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		12-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		





BUS WAY

CASE NUMBER : 2020-00316

GEORGE N. KARUNAS No. 21371 PROFESSIONAL ENGINEER 8/26/2021

ATKINS
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

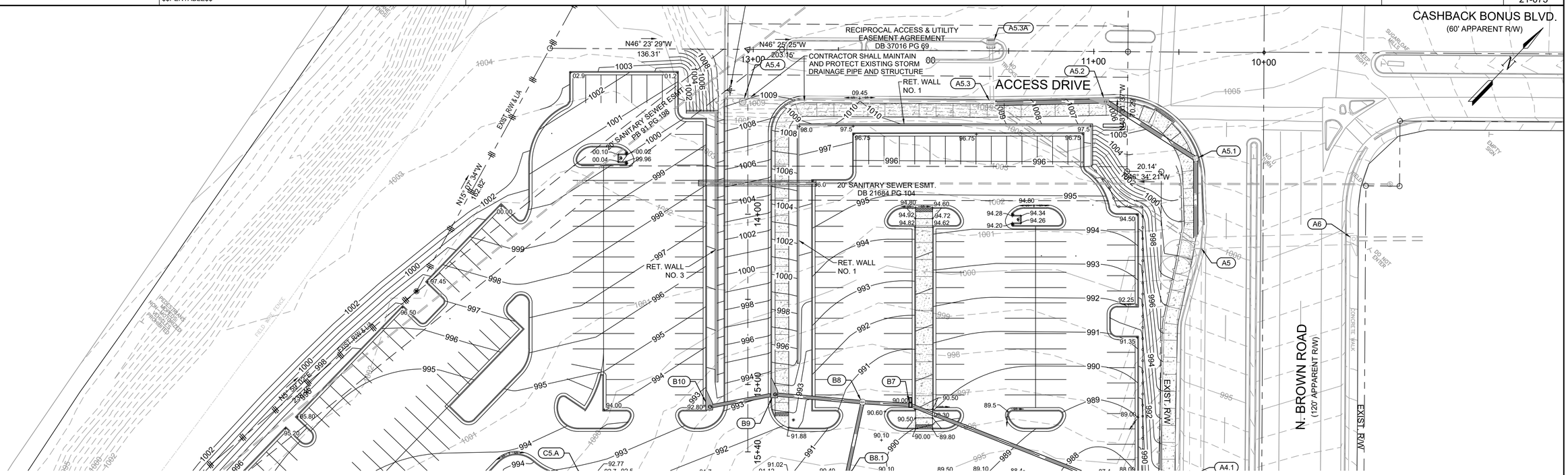
REVISION DATES

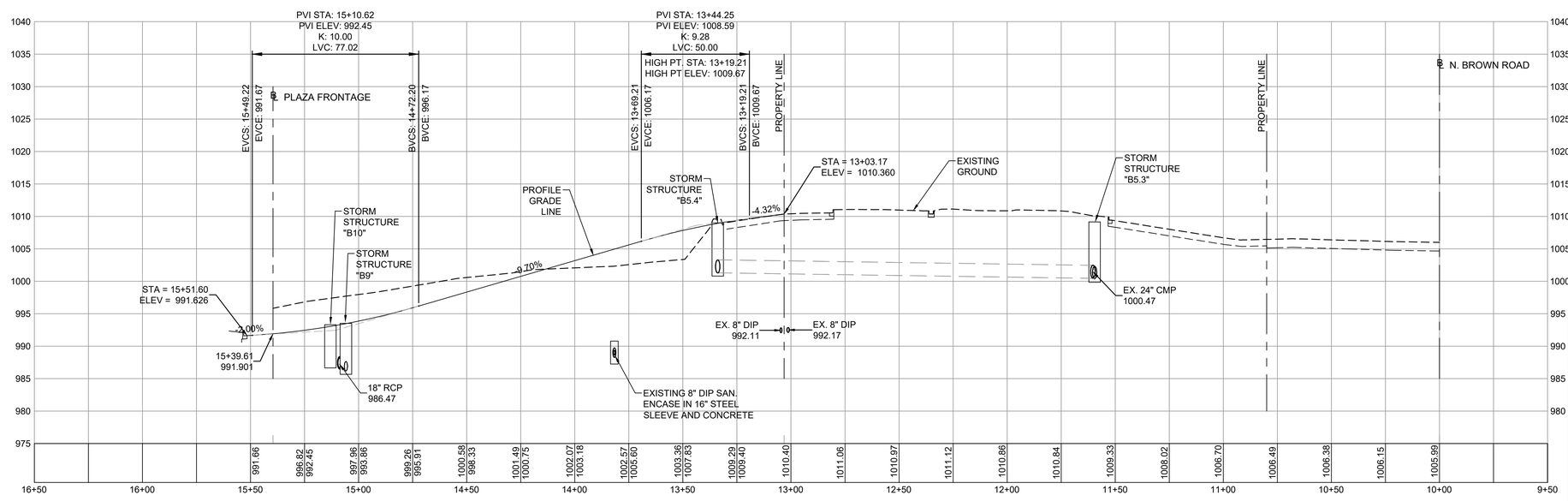
11/20/2020		
05/14/2021		
08/26/2021		

BUS WAY
PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		16-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		





ACCESS DRIVE

CASE NUMBER : 2020-00316

REVISION DATES		
11/20/2020		
08/26/2021		

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

ACCESS DRIVE PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

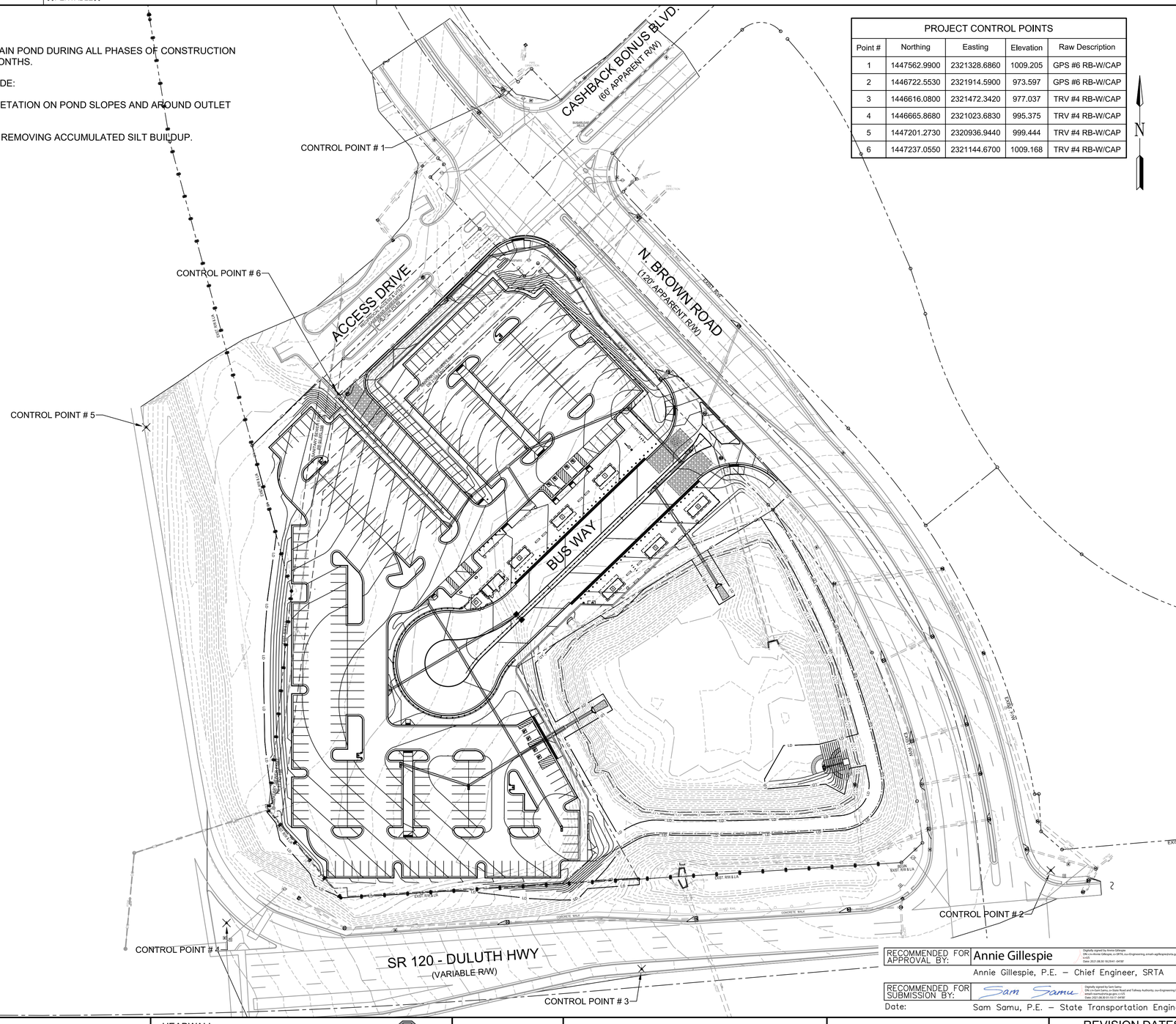
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	16-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

POND MAINTENANCE:

CONTRACTOR SHALL MAINTAIN POND DURING ALL PHASES OF CONSTRUCTION AND FOR A PERIOD OF 18 MONTHS.

MAINTENANCE SHALL INCLUDE:

1. CUTTING GRASS AND VEGETATION ON POND SLOPES AND AROUND OUTLET CONTROL STRUCTURE.
2. DRAINING THE POND AND REMOVING ACCUMULATED SILT BUILDUP.



PROJECT CONTROL POINTS				
Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
2	1446722.5530	2321914.5900	973.597	GPS #6 RB-W/CAP
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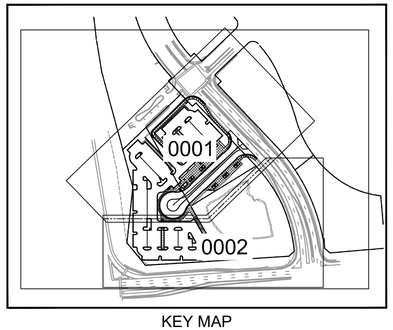
5	1447201.2730	2320936.9440	999.444	TRV #4 RB-W/CAP
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP

GRADING AND DRAINAGE GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
3. EXISTING INFORMATION IS SHOWN IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL FIELD VERIFY DATA PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION.
4. FOR STORM DRAINAGE PROFILES, SEE DRAWING NO. 22-0001 THRU 22-0002.
5. ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CLASS III, UNLESS OTHERWISE NOTED.
6. TOTAL PROJECT AREA = ± 5.49 AC.,
   TOTAL DISTURBED AREA = ± 6.14 AC. (0.65 OFF SITE),
   TOTAL PROPOSED IMPERVIOUS AREA = ± 4.25 (ON-SITE ONLY) AC. (77.41%).
7. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.
8 TOPSOIL FROM WITHIN THE LIMITS OF DISTURBANCE SHALL BE STRIPPED AND STOCKPILED IN A SUITABLE LOCATION IN CONJUNCTION WITH GRADING OPERATIONS. SILT FENCE MUST BE PROVIDED AROUND THE PERIMETER OF THE STOCKPILE AREA AND TEMPORARY GRASSING OF THE STOCKPILE TO PREVENT EROSION WILL BE REQUIRED. PRIOR TO PERMANENT SOD, SEED MIXES AND LANDSCAPE PLANTING, REMOVE AND SPREAD TOPSOIL FROM THE STOCKPILE, SPREADING IT EVENLY WITHIN ALL LANDSCAPE PLANTING AREAS IN ACCORDANCE WITH THE LANDSCAPE PLANS.
9. THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA:
   "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155;
   MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006".
10. EARTHEN FILL SHALL BE CLASS 'CL' OR 'ML' MATERIAL APPROVED FOR USE BY GEOTECHNICAL ENGINEER (PE) AND PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR UNDER SAID ENGINEER'S DIRECTION.
11. SUBMITTAL OF COMPACTION REPORTS, PERFORMED BY GEOTECHNICAL ENGINEER, TO DOCUMENT CONSTRUCTION PRACTICES WILL BE REQUIRED FOR THIS PROJECT.
12. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1)
13. NOTIFY GWINNETT COUNTY INSPECTOR 24 HOURS BEFORE BEGINNING OF EACH PHASE OF CONSTRUCTION 678-518-6000.
14. CONTRACTOR SHALL CALL DEVELOPMENT INSPECTIONS TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY CONSTRUCTION 678-518-6000



KEY MAP

CASE NUMBER : 2020-00316

RECOMMENDED FOR APPROVAL BY: Annie Gillespie — Digitally signed by Annie Gillespie, CN=cn=Annie Gillespie, o=SRTA, ou=Engineering, email=agillespie@srta.ga.gov, c=US, Date: 2021.08.30 18:29:41 -04'00'
Annie Gillespie, P.E. – Chief Engineer, SRTA

RECOMMENDED FOR SUBMISSION BY: Sam Samu — Digitally signed by Sam Samu, CN=cn=Sam Samu, o=Atlanta Regional Transit Road and Tolleway Authority, ou=Engineering Division, email=ssamu@srta.ga.gov, c=US, Date: 2021.08.30 09:54:17 -04'00' — 0000043839
Date: Sam Samu, P.E. – State Transportation Engineer, SRTA — GCCC LEVEL II Certification Number

PROPOSED MAJOR CONTOUR		HEADWALL	
PROPOSED MINOR CONTOUR		WEIR INLET	
EX MAJOR CONTOUR		STORM MANHOLE	
EX MINOR CONTOUR		SPOT ELEVATIONS	+ 94.50
STORM PIPE		DROP INLETS	
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

STATE OF GEORGIA — No. 21371 — PROFESSIONAL ENGINEER — 8/26/2021 — GEORGE N. KARUNAS

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

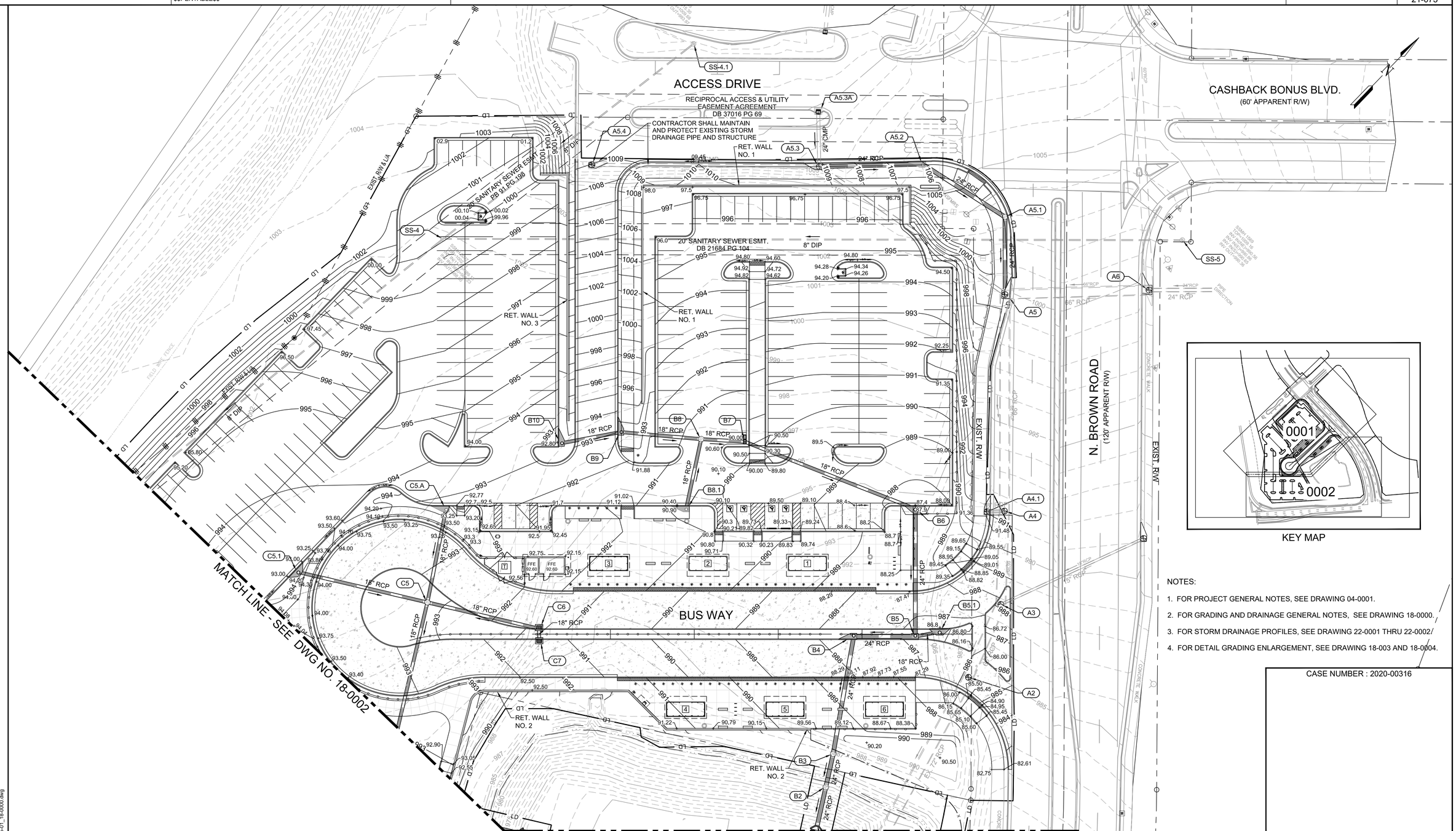
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

OVERALL GRADING AND DRAINAGE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		



NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002/
4. FOR DETAIL GRADING ENLARGEMENT, SEE DRAWING 18-003 AND 18-0004.

CASE NUMBER : 2020-00316

PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
WEIR INLET	
STORM MANHOLE	
SPOT ELEVATIONS	+ 94.50
DROP INLETS	

REGISTERED PROFESSIONAL ENGINEER NO. 21371 8/26/2021 GEORGE N. KAKUNDS

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

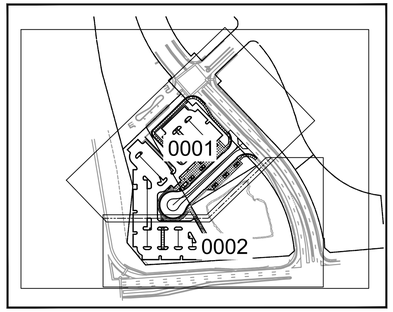
REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

GRADING AND DRAINAGE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



KEY MAP

NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.
4. FOR DETAIL GRADING ENLARGEMENT, SEE DRAWING 18-003 AND 18-0004
5. CONTRACTOR SHALL MAINTAIN POND DURING ALL PHASES OF CONSTRUCTION AND FOR A PERIOD OF 18 MONTHS.

   MAINTENANCE SHALL INCLUDE:

   A. CUTTING GRASS AND VEGETATION ON POND SLOPES AND AROUND OUTLET CONTROL STRUCTURE.

   B. DRAINING THE POND AND REMOVING ACCUMULATED SILT BUILDUP.
6. COST FOR EMBANKMENT REQUIRED FOR OUTLET CONTROL STRUCTURE REPAIR TO BE INCLUDED IN GRADING COMPLETE.

MATCH LINE - SEE DWG NO. 18-0001

MATCH LINE - SEE DWG NO. 18-0001

N

N. BROWN ROAD
(120' APPARENT R/W)

EXIST. R/W

REMOVE SILT & SEDIMENT FROM POND BOTTOM TO RESTORE ORIGINAL POND VOLUMES

PROVIDE MATTING AND PERMANENT GRASSING ON ALL DISTURBED SLOPE AREAS

FILTER RING

12" PVC

12" THICK TYPE 3 RIP-RAP COVER AT BACKFILL AREA FOR SLOPE REPAIR

REFER TO DTL. 3/38-0003 FOR EXISTING OCS MODIFICATIONS

RET. WALL NO. 2

C1 24" RCP

C2 24" RCP

C3

C4 24" RCP

C4.2 18" RCP

C4.1 18" RCP

C4.A 18" RCP

A1

B1

SS-3

SANITARY SEWER ESMT PB 91 PG 194

8" DIP

EXIST. R/W & L/A

ESA BUFFERED STATE WATERS - BSWA

BEGIN EXIST. R/W & L/A

SR 120 - DULUTH HWY
(VARIABLE R/W)

APPROXIMATE LAND LOT LINE

LL 80

LL 81

CASE NUMBER : 2020-00316

PROPOSED MAJOR CONTOUR	HEADWALL		
PROPOSED MINOR CONTOUR	WEIR INLET		
EX MAJOR CONTOUR	STORM MANHOLE		
EX MINOR CONTOUR	SPOT ELEVATIONS	+	94.50
STORM PIPE	DROP INLETS		
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

PROFESSIONAL ENGINEER No. 21371 8/26/2021 GEORGE N. KARAINOS

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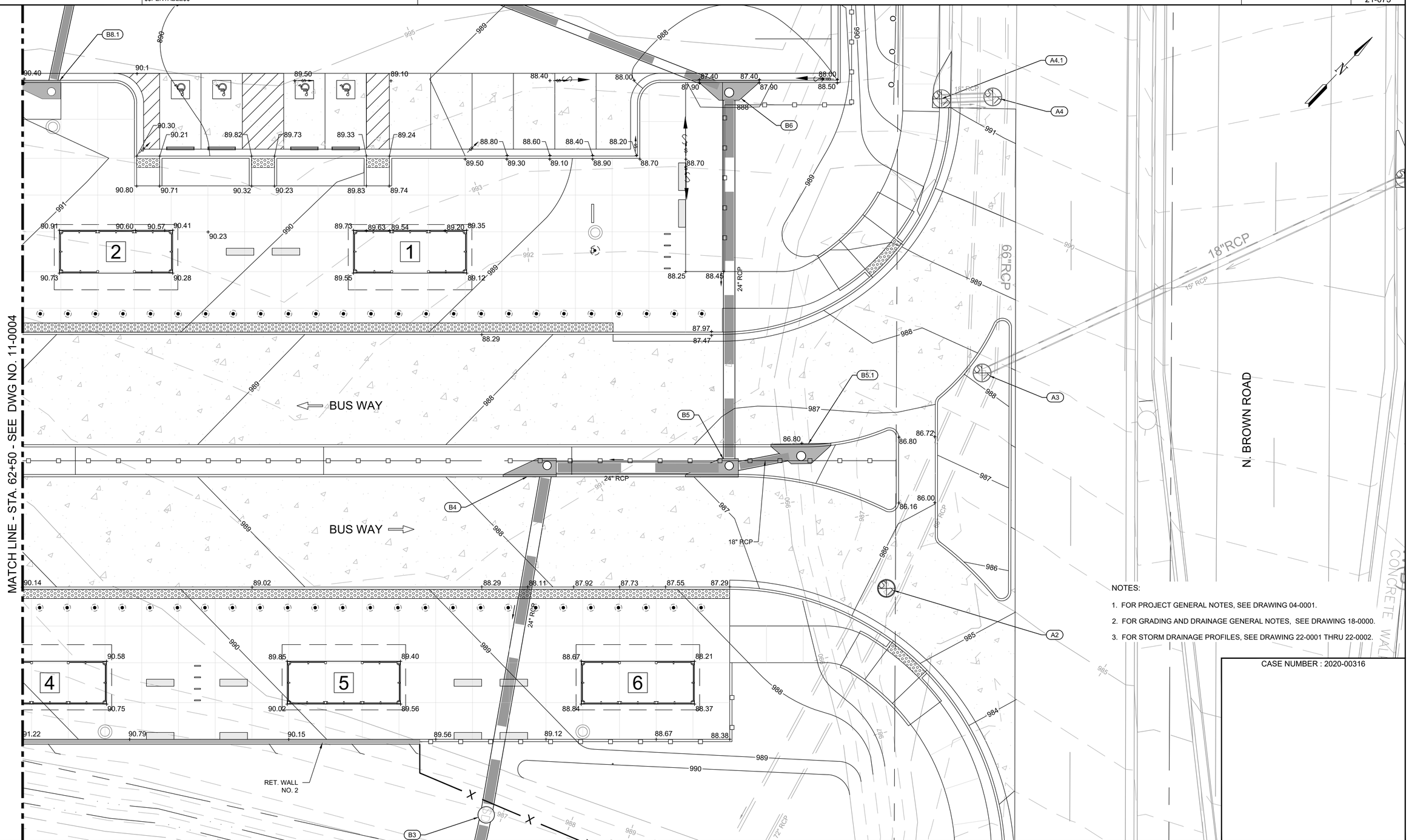
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

GRADING AND DRAINAGE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.

CASE NUMBER : 2020-00316

REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

REGISTERED No. 21371 PROFESSIONAL 8/26/2021 ENGINEER GEORGE N. KARLINS

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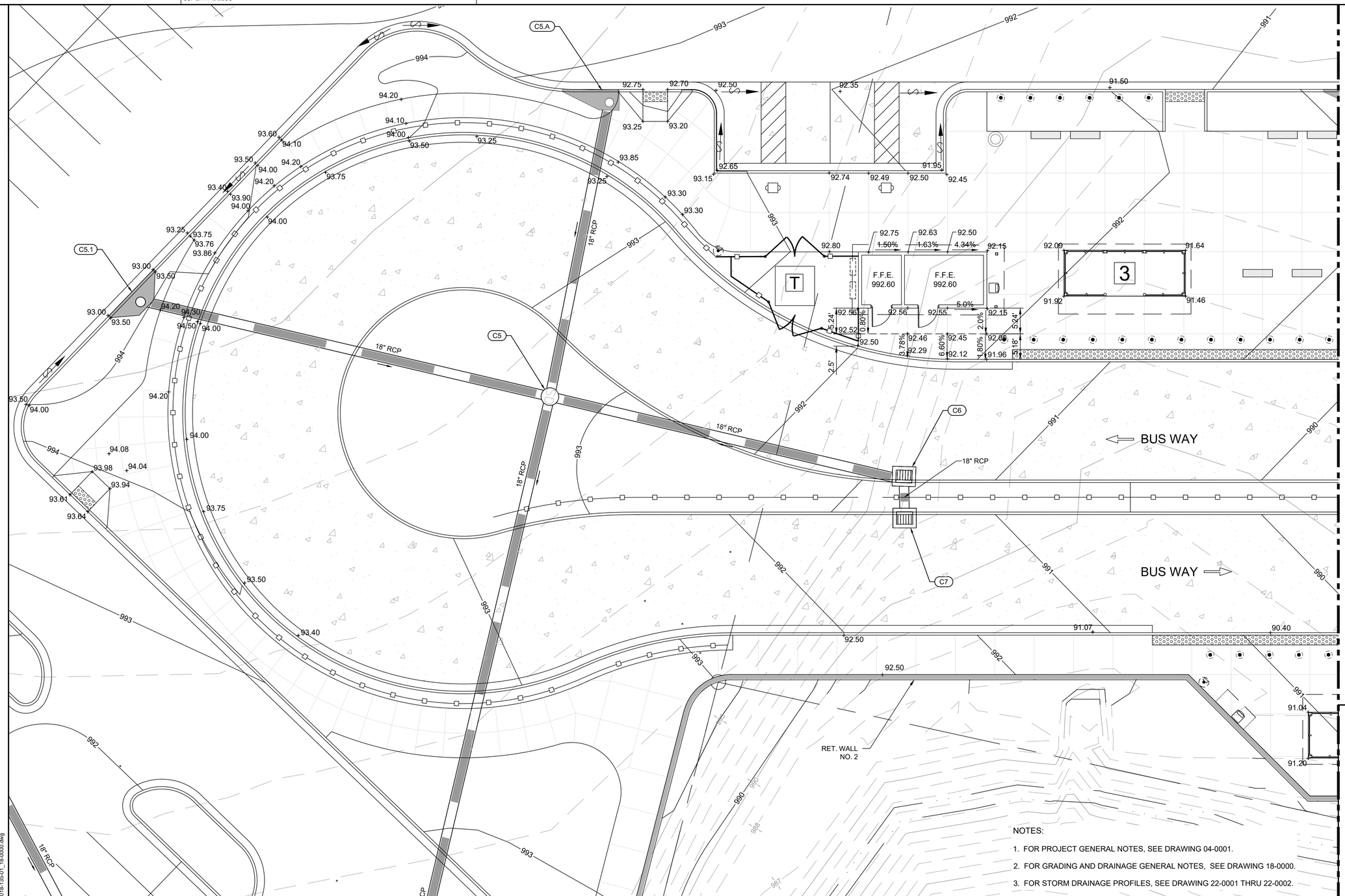
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

GRADING AND DRAINAGE PLAN
ENLARGED PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



CASE NUMBER : 2020-00316

NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.

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Expiration Date 06/30/2022

GEORGE N. KARLINIS No. 21371 PROFESSIONAL ENGINEER 8/26/2021

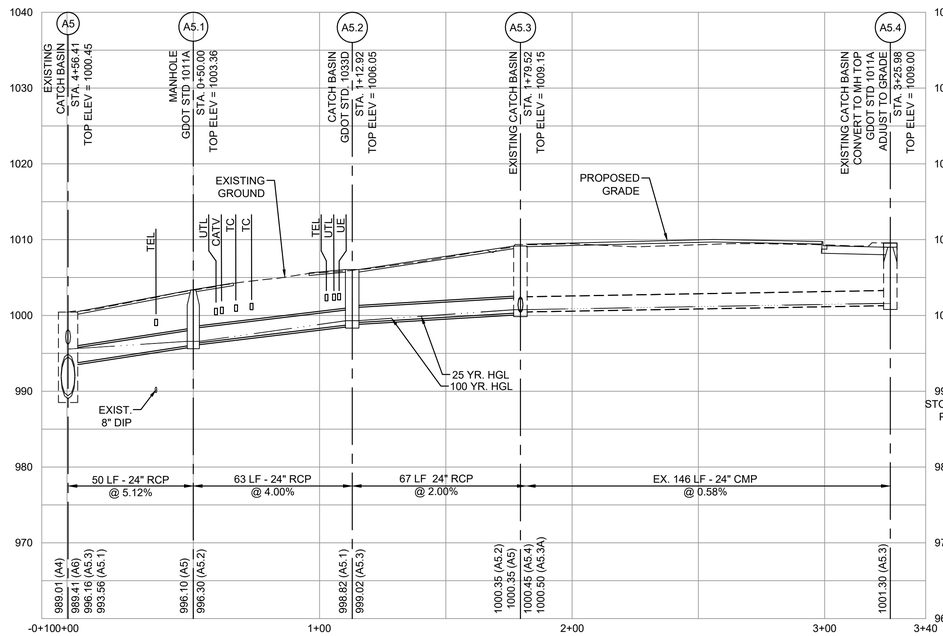
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

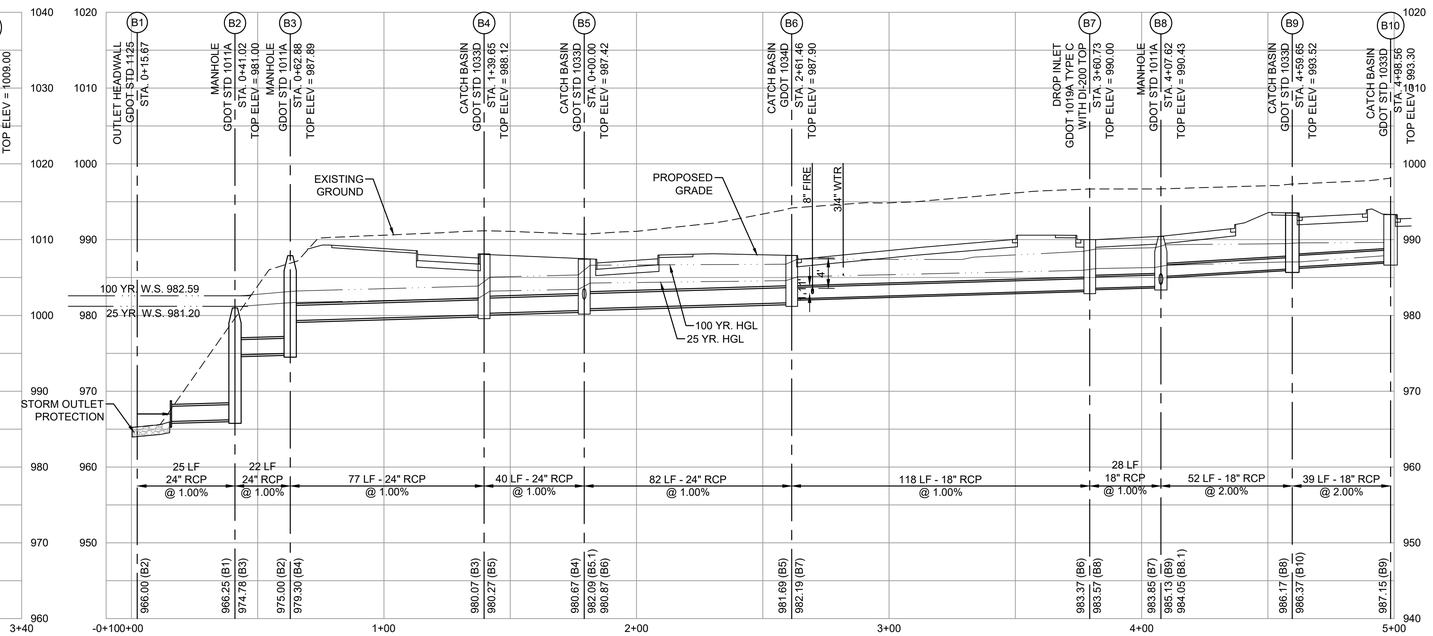
GRADING AND DRAINAGE PLAN
ENLARGED PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

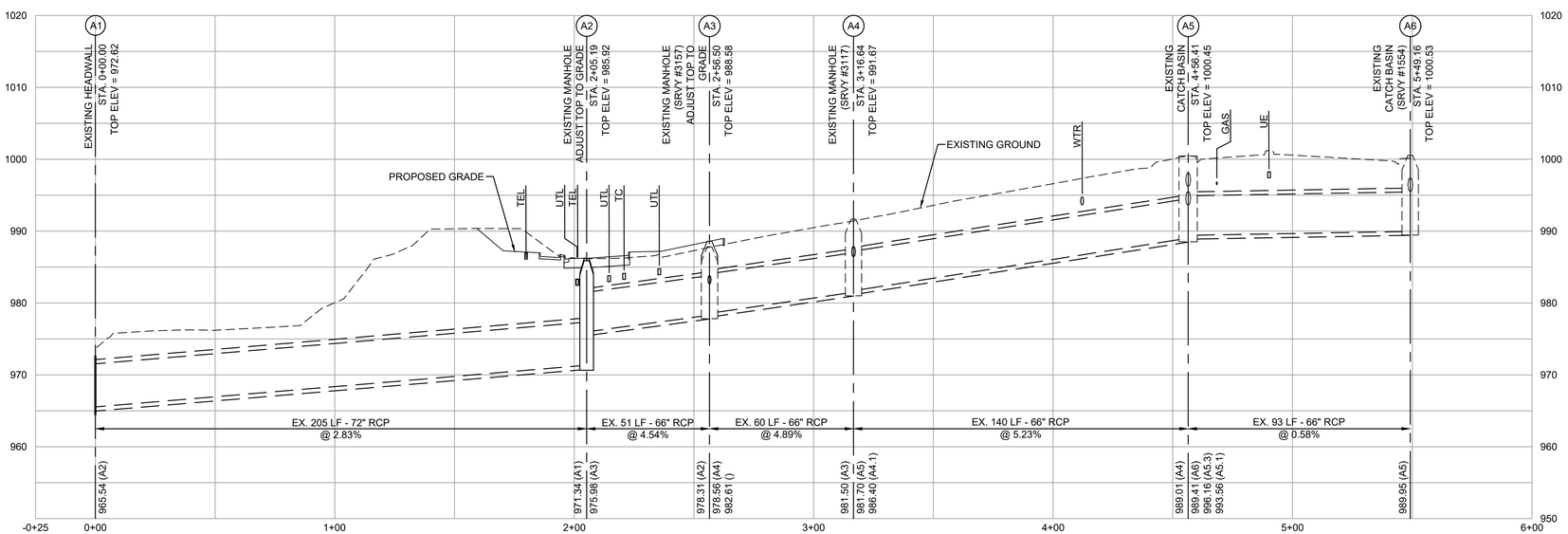
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	18-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	



STORM LINE A5



STORM LINE B



STORM A EXISTING

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
3. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.
4. FOR 25 YR. PIPE CHART, SEE DRAWING 22-0003.

CASE NUMBER : 2020-00316

PROFESSIONAL ENGINEER No. 21371 8/26/2021 GEORGE N. KARDINS

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Expiration Date 06/30/2022

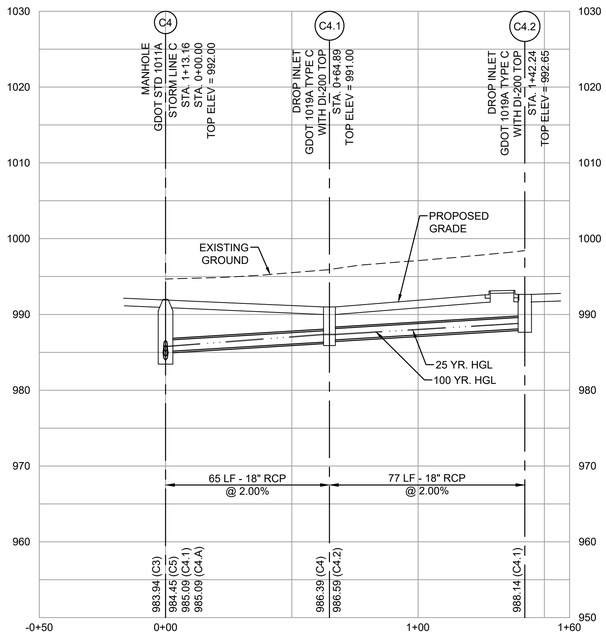
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES
11/20/2020
05/14/2021
08/26/2021

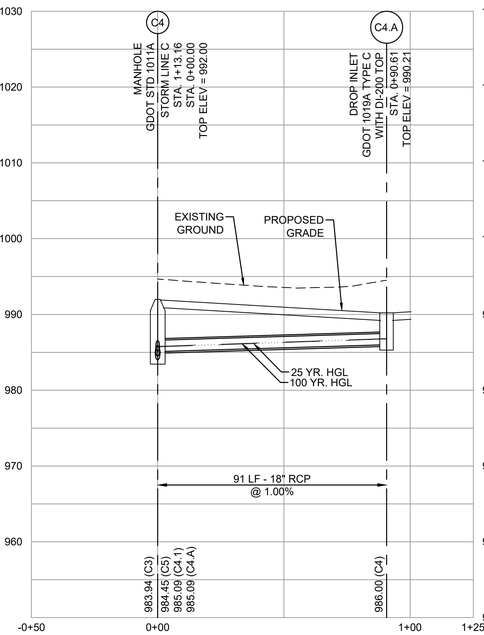
DRAINAGE PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

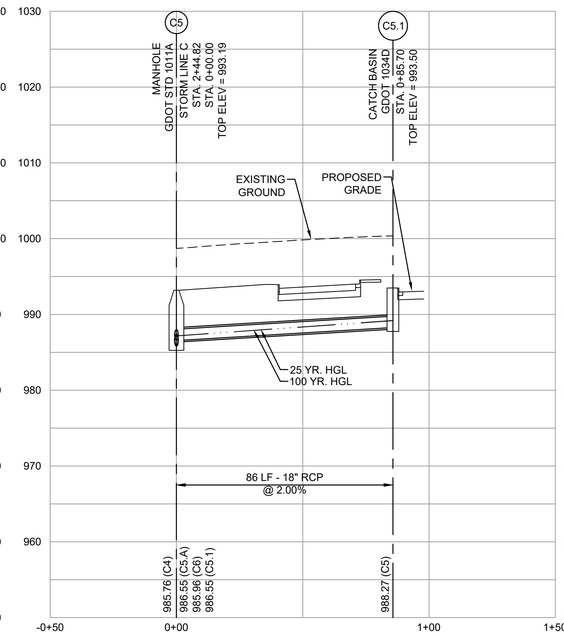
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



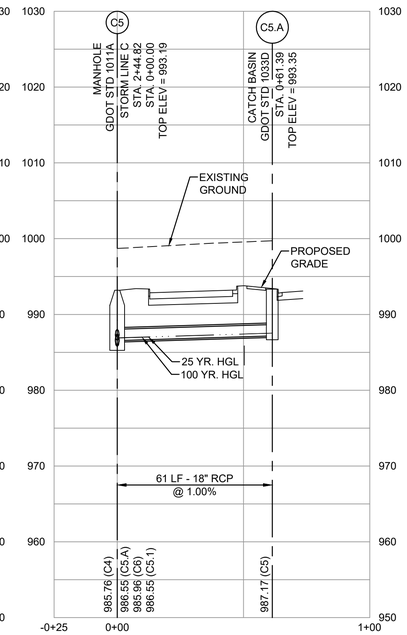
STORM LINE C4



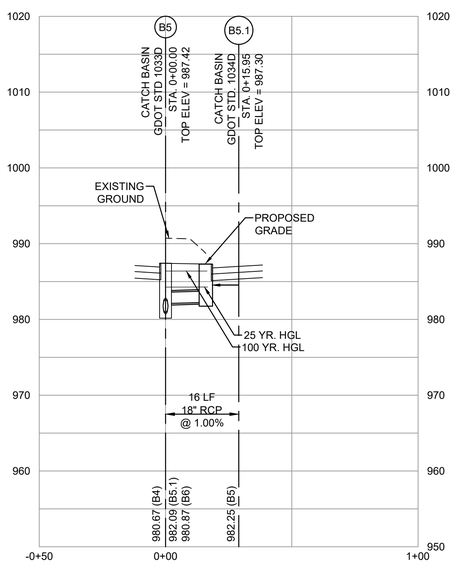
STORM LINE C4.A



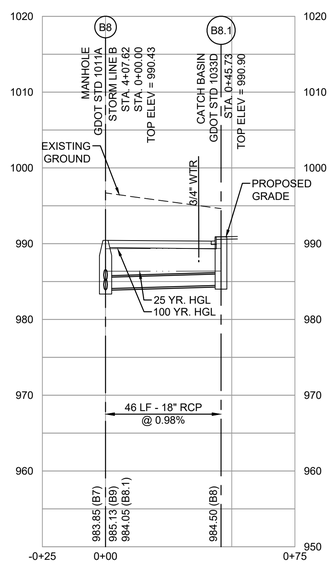
STORM LINE C5



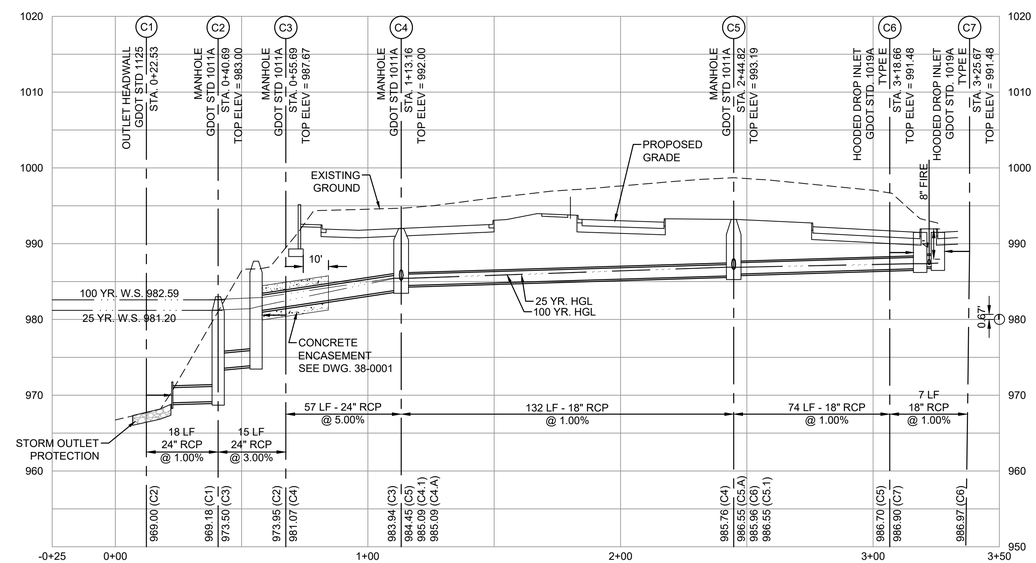
STORM LINE C5.A



STORM LINE B5



STORM LINE B8



STORM LINE C

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
3. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.
4. FOR 25 YR. PIPE CHART, SEE DRAWING 22-0003.

CASE NUMBER : 2020-00316

PROFESSIONAL ENGINEER No. 21371 8/26/2021 GEORGE N. KARDINES

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HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

DRAINAGE PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

25 YEAR STORM EVENT PIPE CHART

LineID	Upstream Structure Type	Drainage Area (ac)	Total Area (ac)	Runoff Coeff (C)	Rainfall Intensity I, (in/hr)	Incr. CxA	Total CxA	Incr Q (cfs)	Flow Rate (cfs)	Capacity Full (cfs)	Line Size (in)	Pipe Material	n-value	Length (ft)	Slope (%)	Invert Up (ft)	Invert Dn (ft)	HGL Up (ft)	HGL Dn (ft)	Grn/Rim Elev Up (ft)	Velocity (ft/s)	Full Flow Velocity (ft/s)
Stormline A																						
A5.1 -A5	Manhole	0.00	0.29	0.00	0.00	0	0.24	0.00	1.85	51.19	24	RCP	0.013	49.591	5.12	996.10	993.56	996.57 j	995.56	1003.36	3.28	16.29
A5.2 - A5.1	Catch Basin	0.10	0.29	0.85	9.34	0.09	0.24	0.79	1.92	45.27	24	RCP	0.013	62.916	4.01	998.82	996.30	999.30	996.58	1006.05	3.31	14.41
A5.3 - A5.2	Ex Catch Basin	0.10	0.19	0.80	9.34	0.08	0.15	0.78	1.31	31.96	24	RCP	0.013	66.608	2.00	1000.35	999.02	1000.75	999.30	1009.15	2.99	10.17
A5.3A-A5.3	Ex Hooded Drop Inlet	0.09	0.09	0.77	9.34	0.07	0.07	0.65	0.65	0.00	24	CMP	0.024	34.946	-0.09	1000.47	1000.50	1001.17	1000.78	1009.67	0.67	0.00
Stormline B																						
B2 - B1	Manhole	0.00	3.04	0.00	0.00	0	2.46	0.00	20.26	24.50	24	RCP	0.012	25.352	1.00	966.25	966.00	981.37	981.20	981.00	6.45	7.80
B3 - B2	Manhole	0.00	3.04	0.00	0.00	0	2.46	0.00	20.29	24.50	24	RCP	0.012	21.865	1.00	975.00	974.78	981.62	981.47	987.89	6.46	7.80
B4 - B3	Catch Basin	0.23	3.04	0.91	9.34	0.21	2.46	1.96	20.39	24.54	24	RCP	0.012	76.772	1.00	980.07	979.30	982.25	981.72	988.12	6.49	7.81
B5 - B4	Catch Basin	0.06	2.81	0.90	9.34	0.05	2.25	0.49	18.71	24.61	24	RCP	0.012	39.640	1.01	980.67	980.27	983.44	983.21	987.42	5.96	7.83
B6 - B5	Catch Basin	0.81	2.33	0.86	9.34	0.69	1.83	6.51	15.32	24.48	24	RCP	0.012	82.167	1.00	981.69	980.87	984.59	984.27	987.9	4.88	7.79
B7 - B6	Drop Inlet	0.25	1.52	0.83	9.34	0.21	1.14	1.94	9.59	11.38	18	RCP	0.012	117.989	1.00	983.37	982.19	985.95	985.11	990	5.42	6.44
B8 - B7	Manhole	0.00	1.27	0.00	0.00	0	0.93	0.00	7.86	11.38	18	RCP	0.012	28.167	1.00	983.85	983.57	986.33	986.19	990.43	4.45	6.44
B9 - B8	Catch Basin	0.25	0.88	0.82	9.34	0.2	0.61	1.89	5.29	16.08	18	RCP	0.012	52.033	2.00	986.17	985.13	987.06 j	986.63	993.52	4.87	9.10
B10-B9	Catch Basin	0.63	0.63	0.64	8.82	0.4	0.4	3.55	3.55	16.11	18	RCP	0.012	38.913	2.00	987.15	986.37	987.87	987.06	993.30	4.25	9.12
B8.1 - B8	Catch Basin	0.39	0.39	0.82	8.58	0.32	0.32	2.76	2.76	11.29	18	RCP	0.012	45.730	0.98	984.50	984.05	986.66	986.63	990.89	1.56	6.39
B5.1-B5	Catch Basin	0.43	0.43	0.86	9.34	0.37	0.37	3.46	3.46	11.39	18	RCP	0.012	15.946	1.00	982.25	982.09	984.28	984.27	987.30	1.96	6.45
Stormline C																						
C2 - C1	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.15	24.50	24	RCP	0.012	18.161	1.00	969.18	969.00	981.28	981.20	983.00	5.14	7.80
C3 - C2	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.17	42.44	24	RCP	0.012	15.000	3.00	973.95	973.50	981.41	981.34	987.67	5.15	13.51
C4 - C3	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.24	54.79	24	RCP	0.012	57.465	5.00	983.95	981.07	985.40	981.82	992.00	6.65	17.44
C5 - C4	Manhole	0.00	1.50	0.00	0.00	0	1.01	0.00	8.15	11.38	18	RCP	0.012	131.661	1.00	985.76	984.45	986.87	985.40	993.19	5.84	6.44
C6 - C5	Hooded Drop Inlet	0.17	0.36	0.78	9.34	0.13	0.28	1.22	2.63	11.39	18	RCP	0.012	73.837	1.00	986.70	985.96	987.31 j	986.87	991.48	3.86	6.45
C7 - C6	Hooded Drop Inlet	0.19	0.19	0.80	9.34	0.15	0.15	1.42	1.42	11.36	18	RCP	0.012	7.013	1.00	986.97	986.90	987.42	987.31	991.48	3.22	6.43
C4.1 - C4	Drop Inlet	0.37	0.75	0.89	9.34	0.33	0.62	3.08	5.65	16.10	18	RCP	0.012	64.894	2.00	986.39	985.09	987.31	985.70	991.00	5.00	9.11
C4.2 - C4.1	Drop Inlet	0.38	0.38	0.76	9.34	0.29	0.29	2.72	2.72	16.10	18	RCP	0.012	77.343	2.00	988.14	986.59	988.77 j	987.31	992.65	3.90	9.11
C5.A - C5	Catch Basin	0.13	0.13	0.75	8.58	0.1	0.1	0.82	0.82	11.43	18	RCP	0.012	61.394	1.01	987.17	986.55	987.51	986.87	993.35	2.77	6.47
C5.1 - C5	Catch Basin	1.01	1.01	0.62	8.58	0.63	0.63	5.39	5.39	16.12	18	RCP	0.012	85.705	2.01	988.27	986.55	989.16	987.15	993.50	4.91	9.12
C4.A - C4	Drop Inlet	0.46	0.46	0.87	9.34	0.4	0.4	3.74	3.74	11.40	18	RCP	0.012	90.613	1.00	986.00	985.09	986.74	985.68	990.21	4.32	6.45

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
3. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.

CASE NUMBER : 2020-00316

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARUNAS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

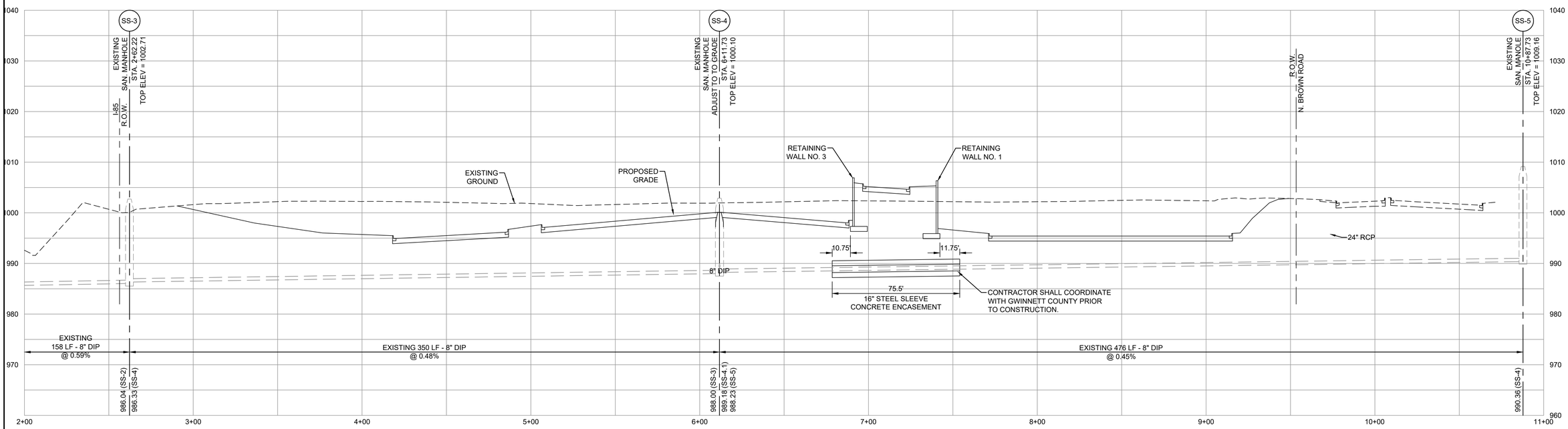
REVISION DATES

11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

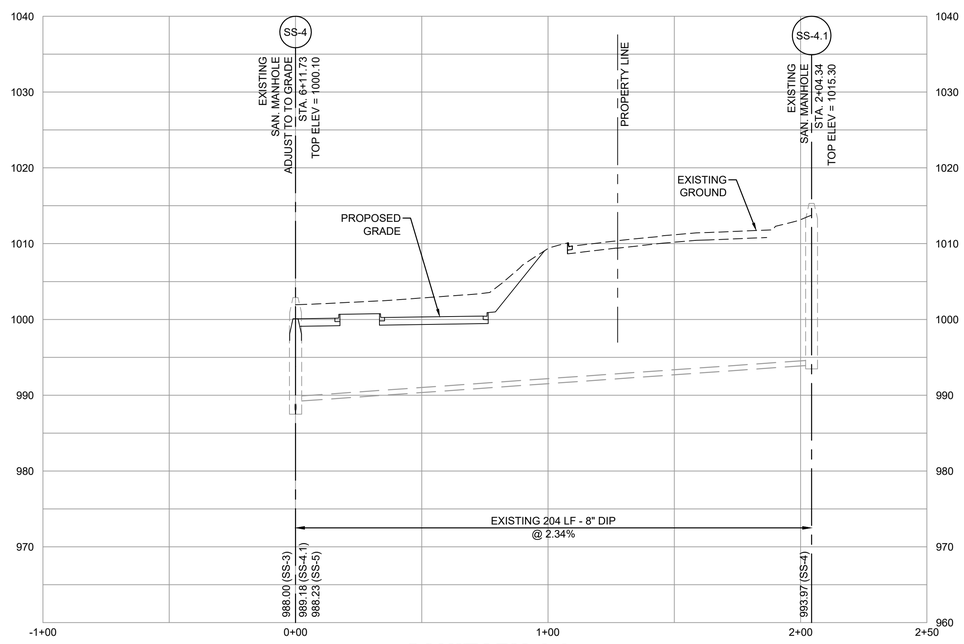
DRAINAGE PIPE CHART

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



SANITARY



SANITARY 4.1

CASE NUMBER : 2020-00316

SANITARY SEWER NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.

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Expiration Date 06/30/2022

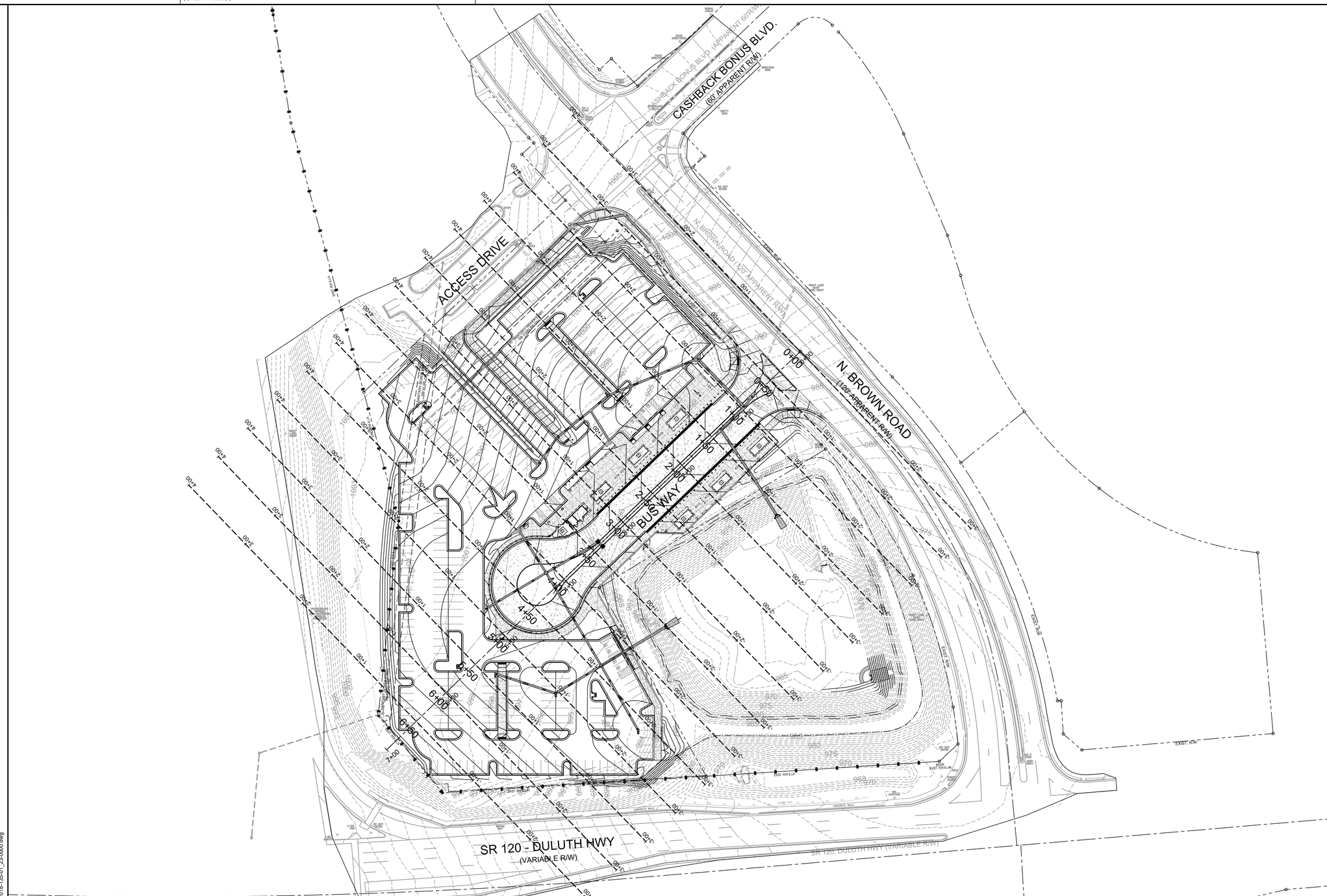
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES
11/20/2020
08/26/2021

SANITARY SEWER PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		



CASE NUMBER : 2020-00316

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GEORGE N. KAKUNIS No. 21371 PROFESSIONAL ENGINEER 8/26/2021

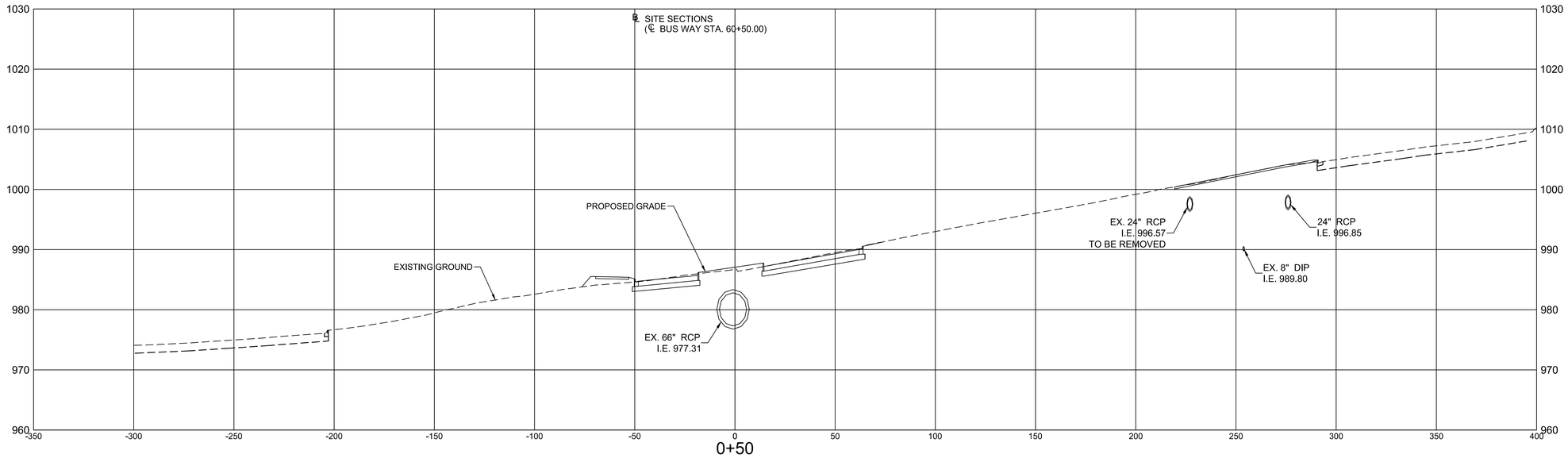
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

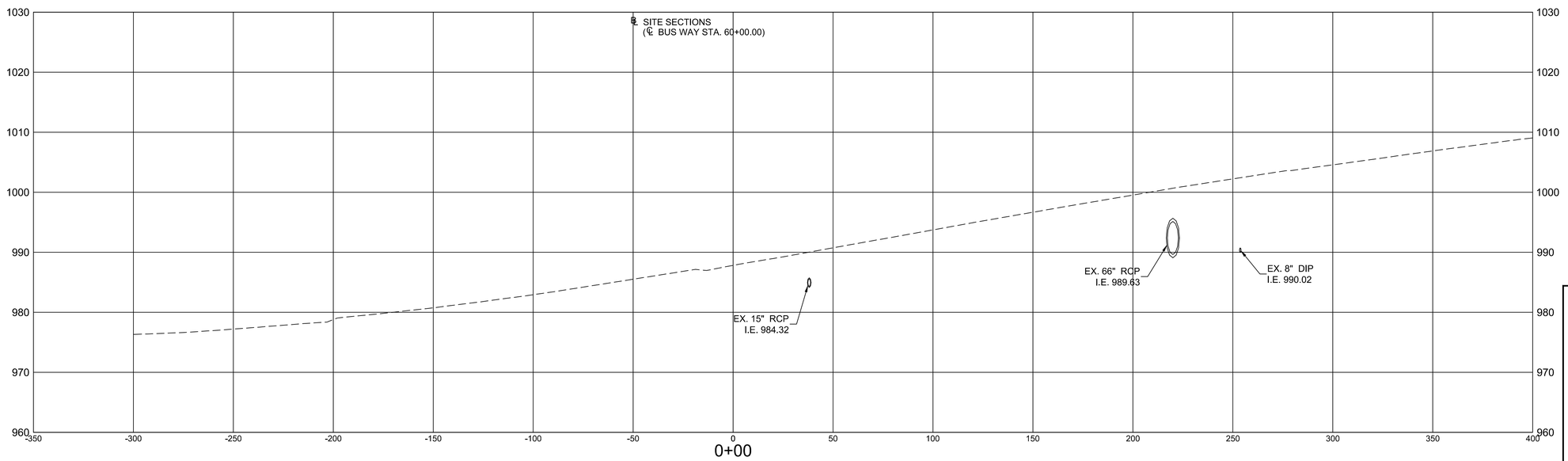
REVISION DATES		
11/20/2020		
08/26/2021		

OVERALL SITE CROSS SECTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		23-0000
VERIFIED:		DATE:		





CASE NUMBER : 2020-00316

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HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

11/20/2020		
08/26/2021		

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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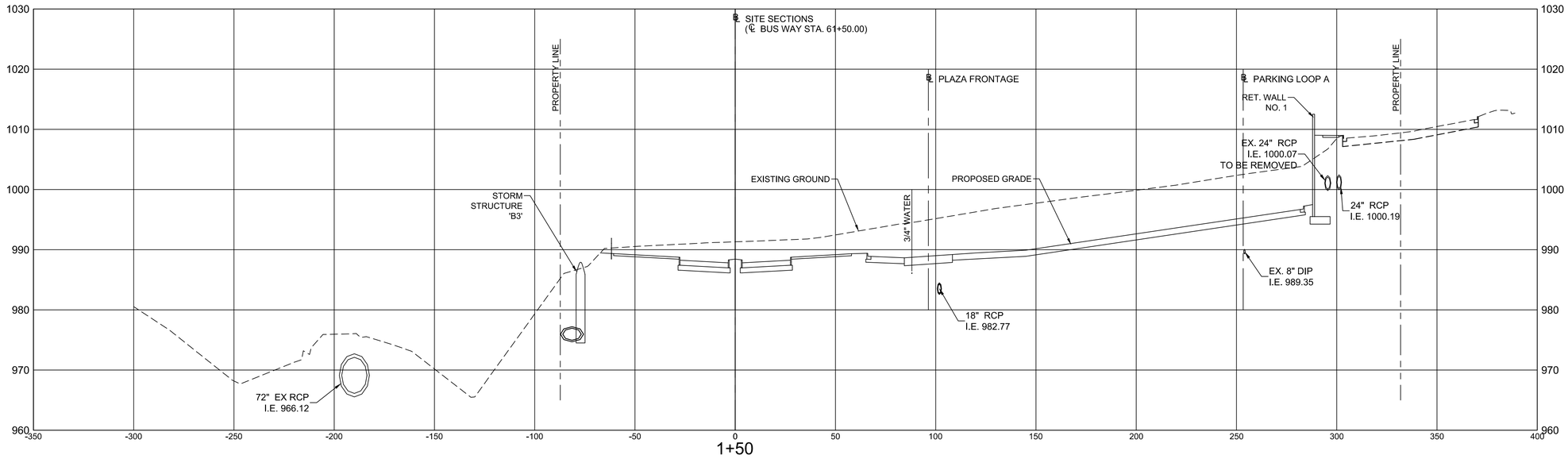
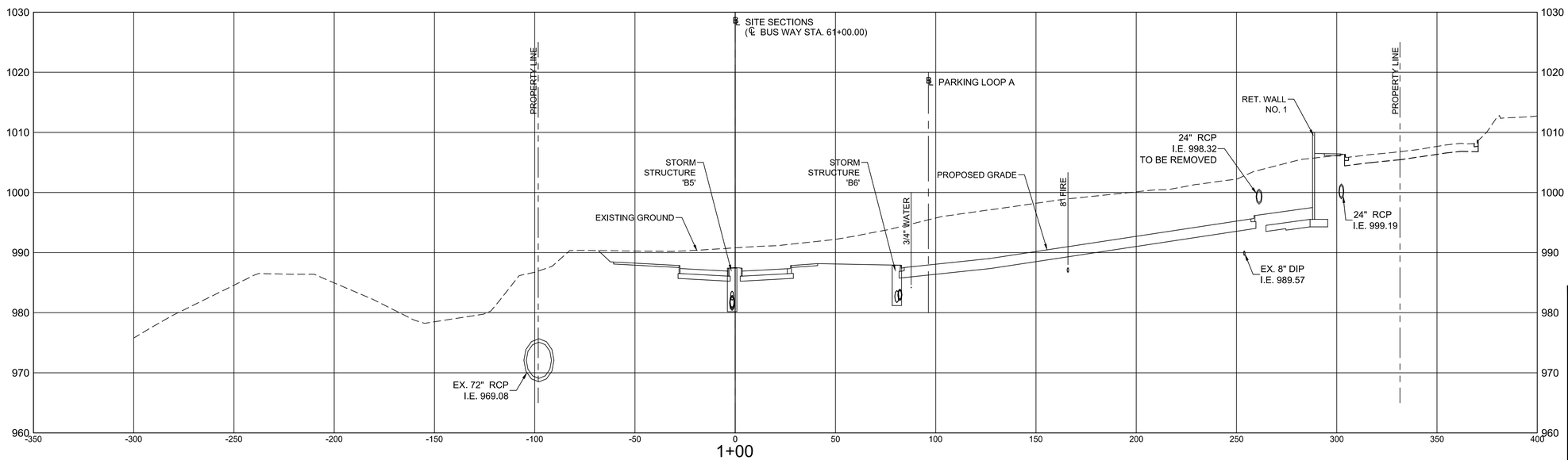
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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REVISION DATES
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05/14/2021
08/26/2021

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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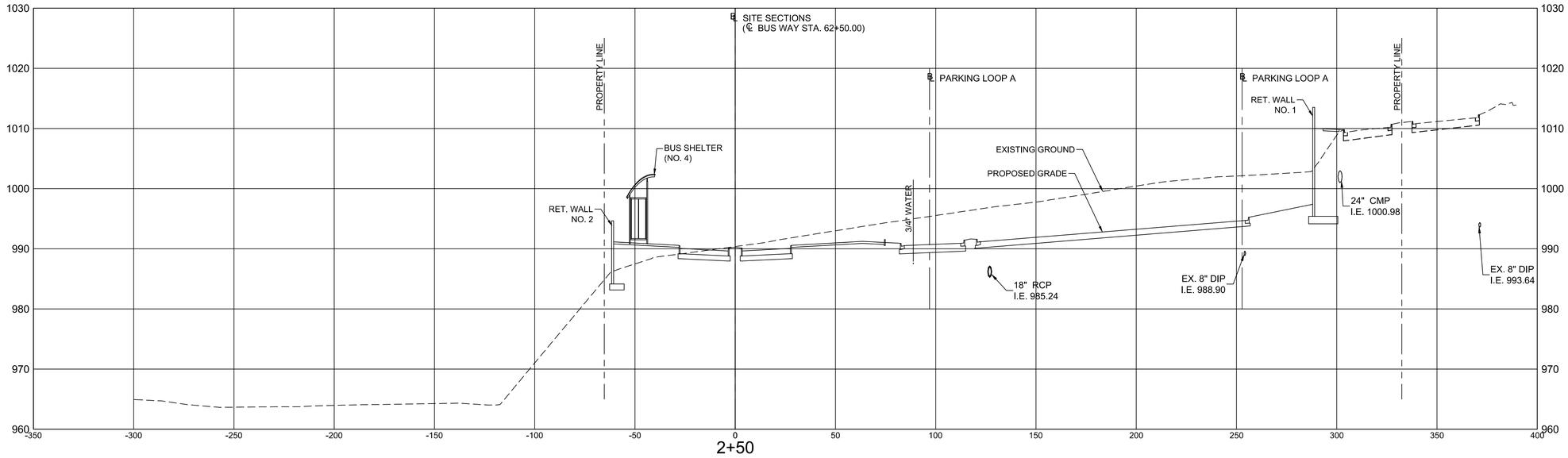
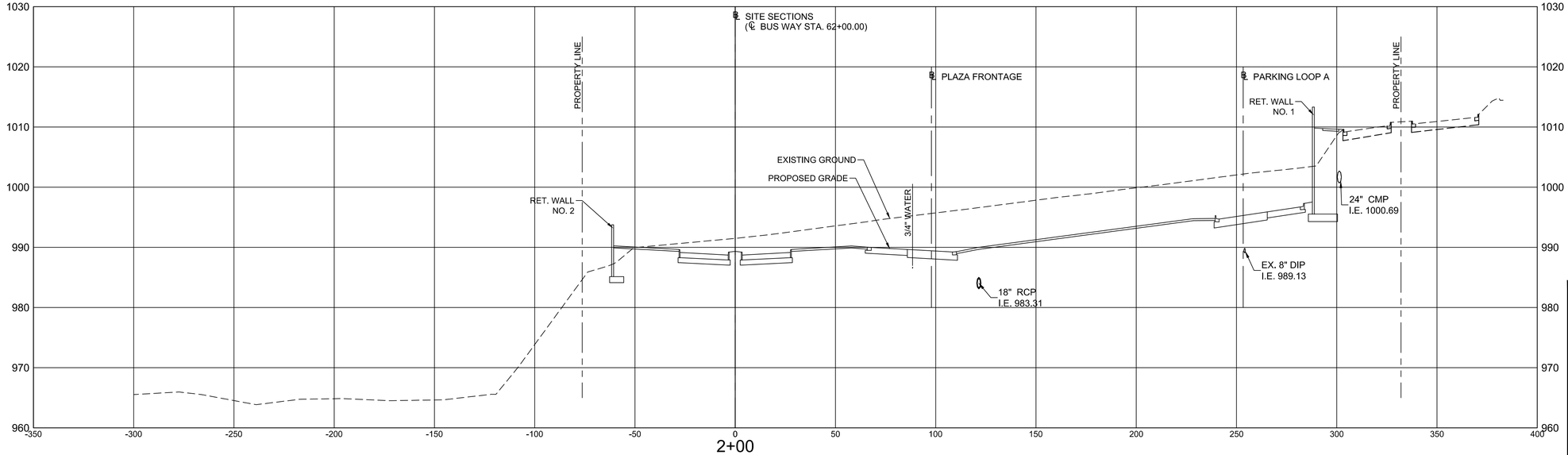
CORRECTED:		DATE:		
VERIFIED:		DATE:		





CASE NUMBER : 2020-00316

No. 21371 PROFESSIONAL 8/26/2021 ENGINEER GEORGE N. KAKUNES

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REVISION DATES

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SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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BACKCHECKED:		DATE:		23-0003
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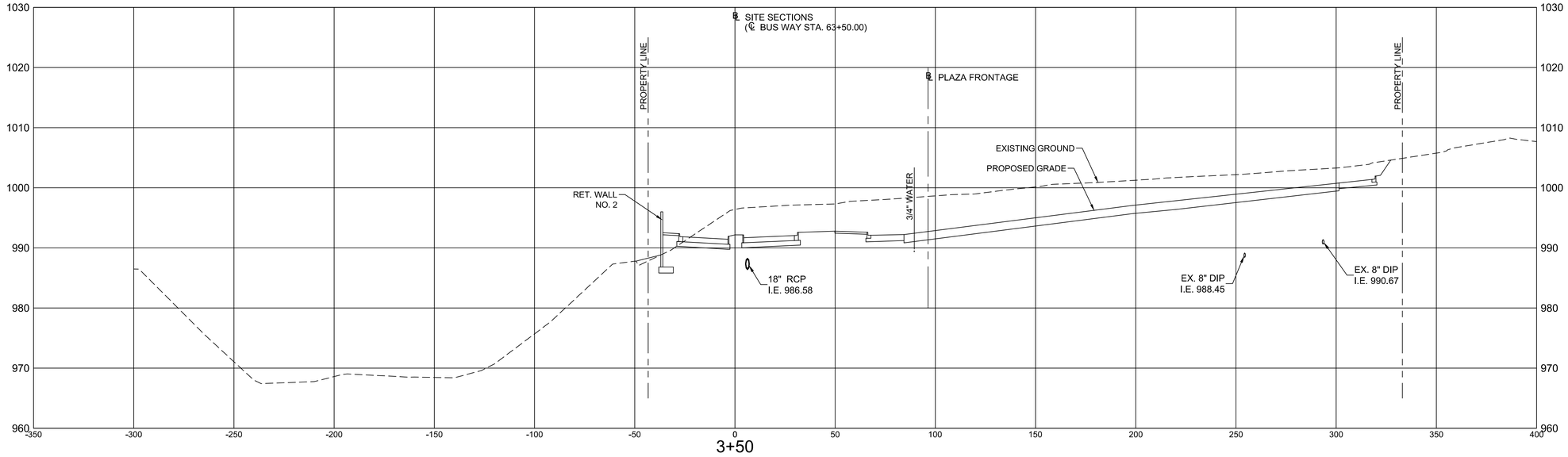
VERIFIED:		DATE:		



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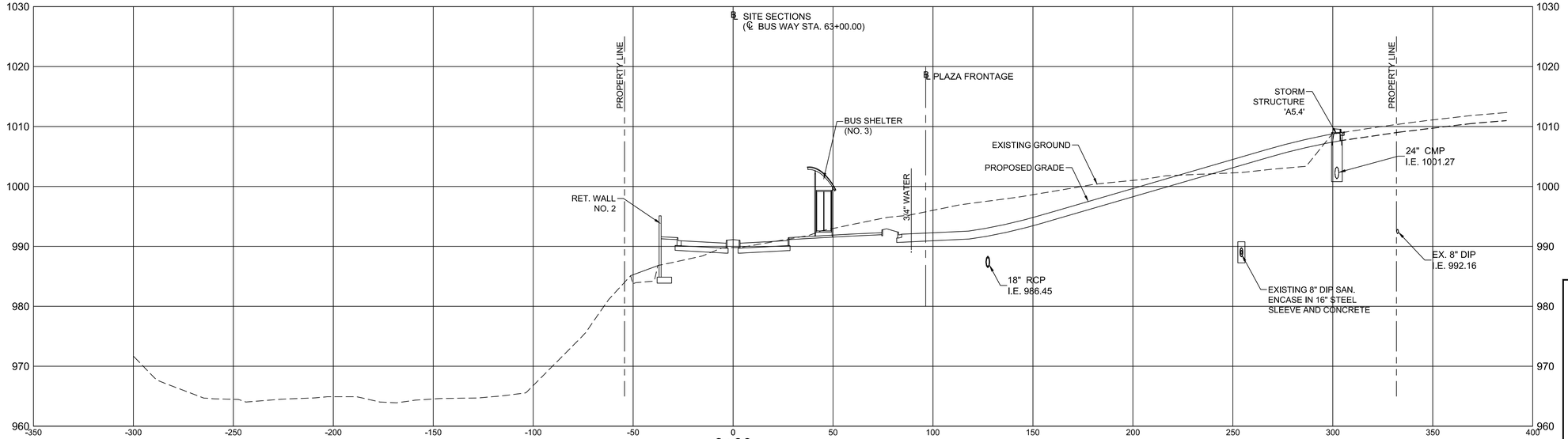

3+00

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REVISION DATES

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05/14/2021		
08/26/2021		

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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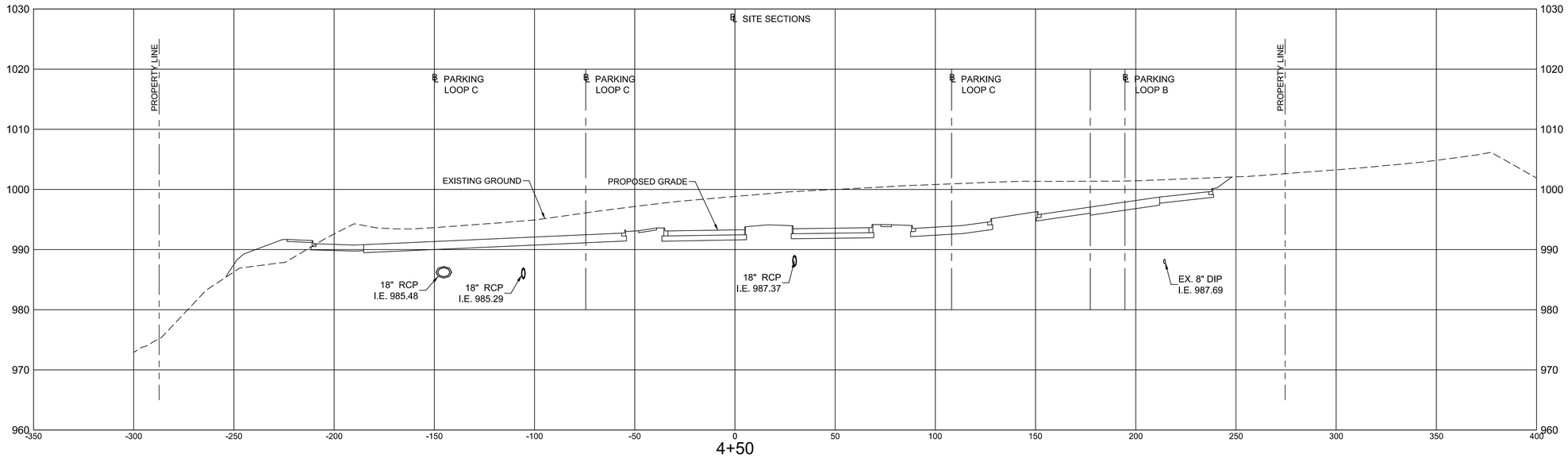
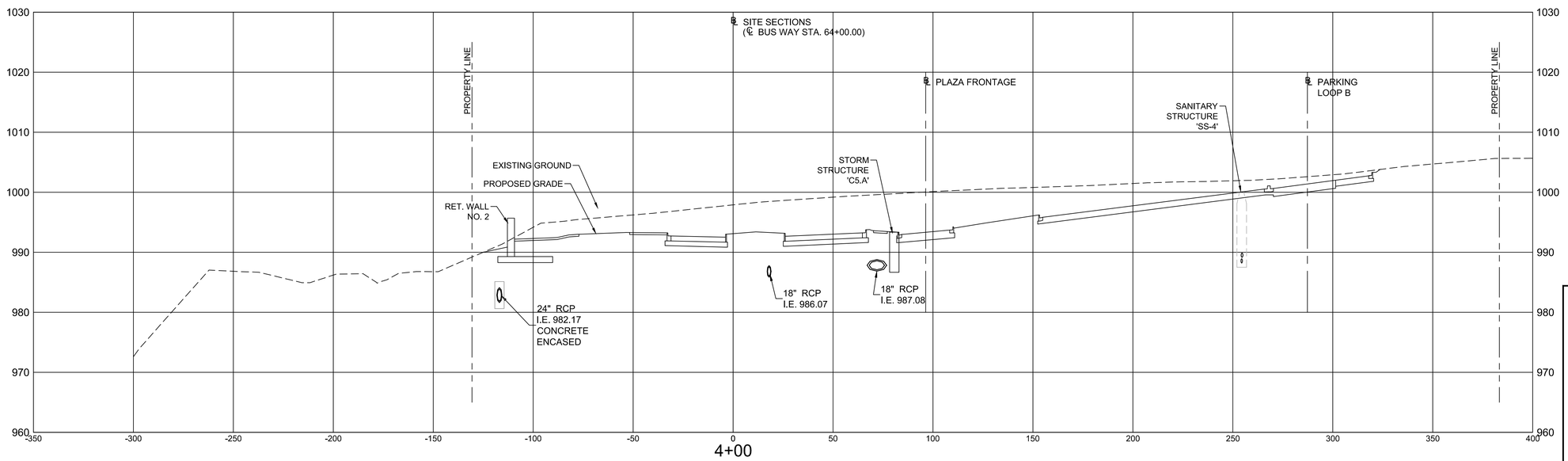
VERIFIED:		DATE:		





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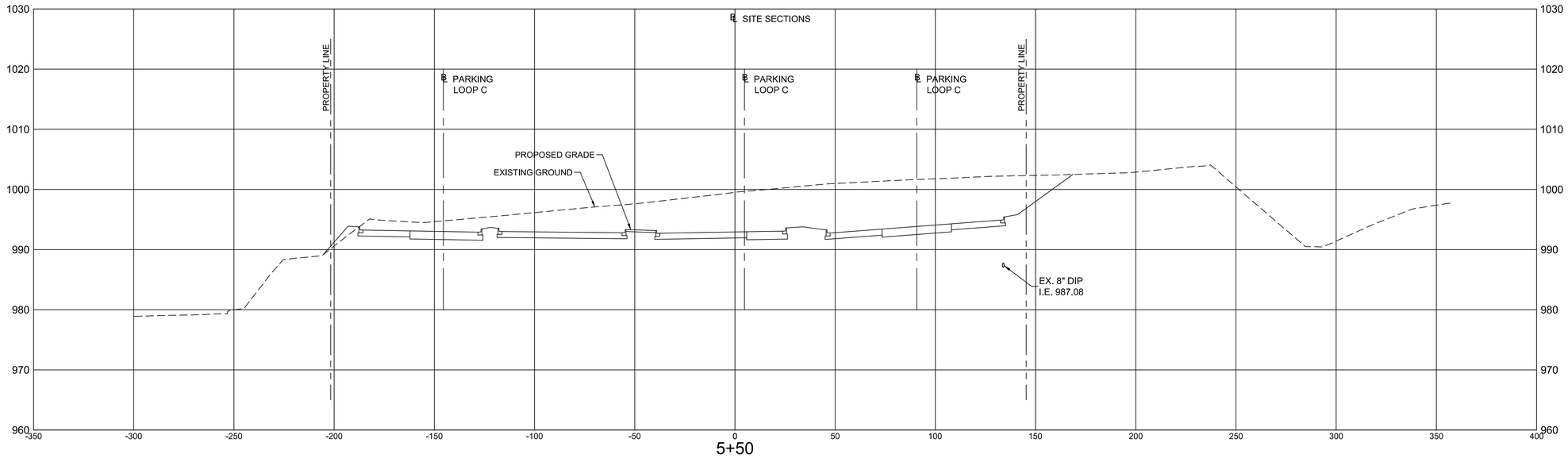
REVISION DATES

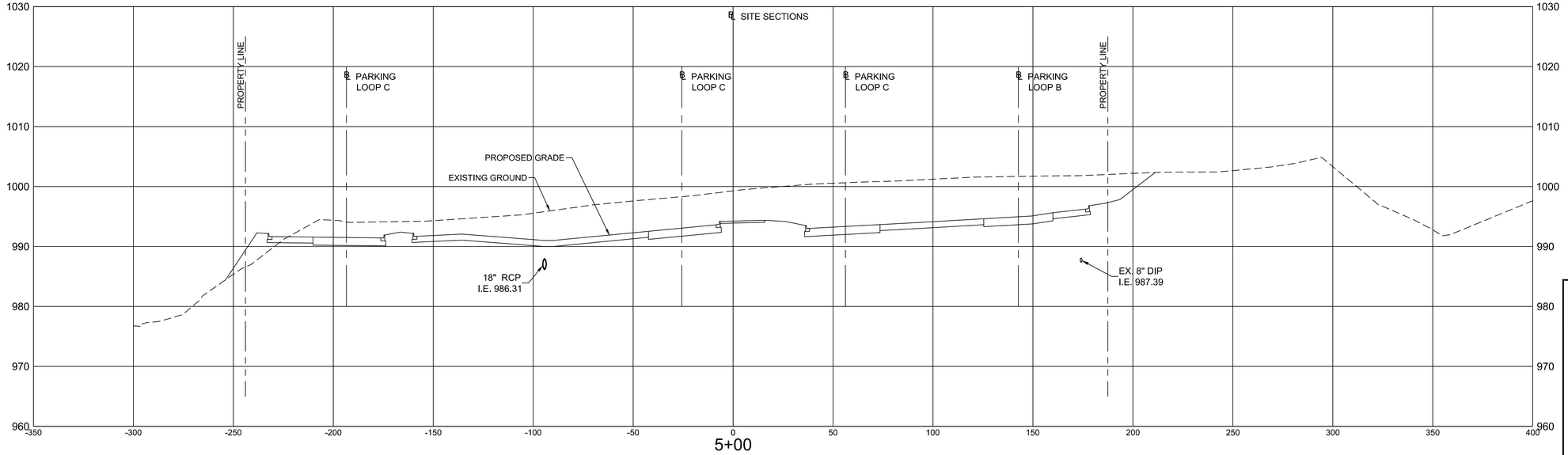
11/20/2020		
08/26/2021		

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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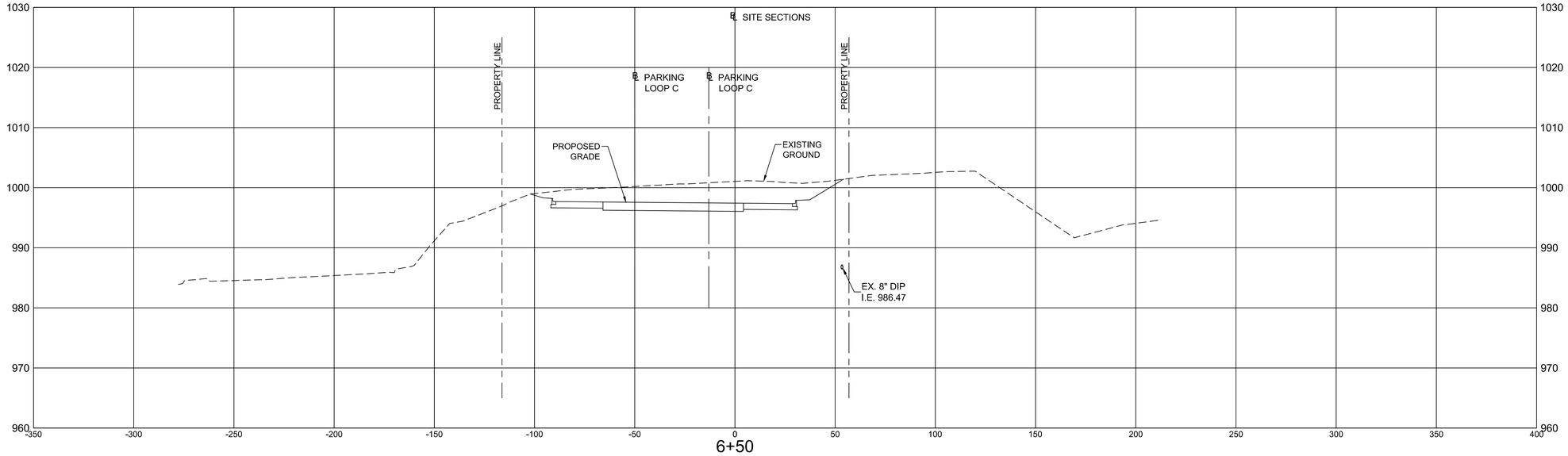
REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		



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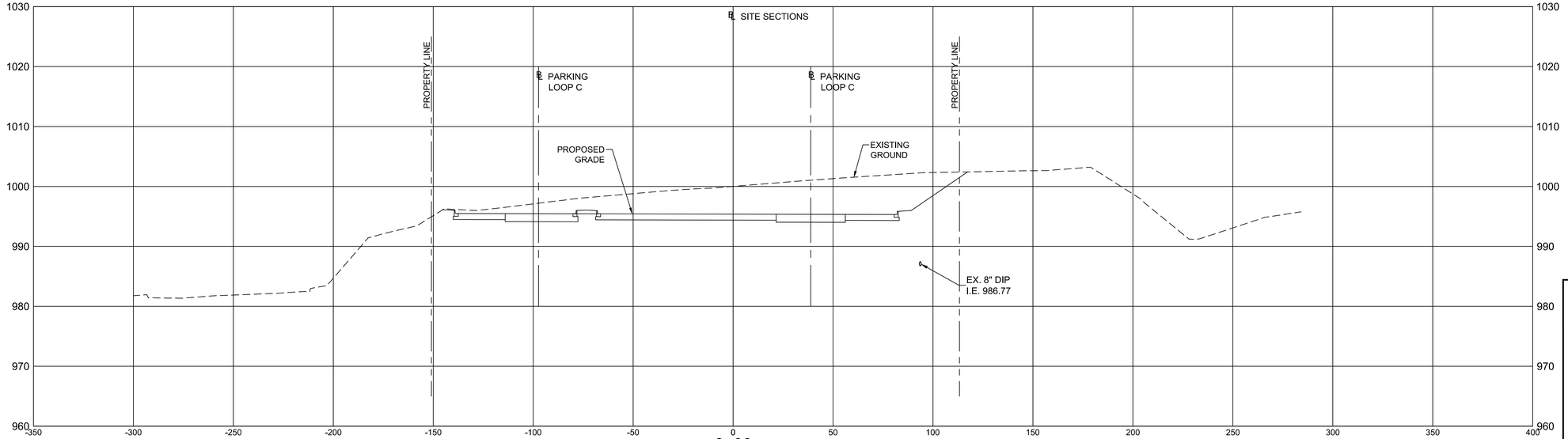

6+00

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VERT. 10 5 0 10 20
SCALE IN FEET

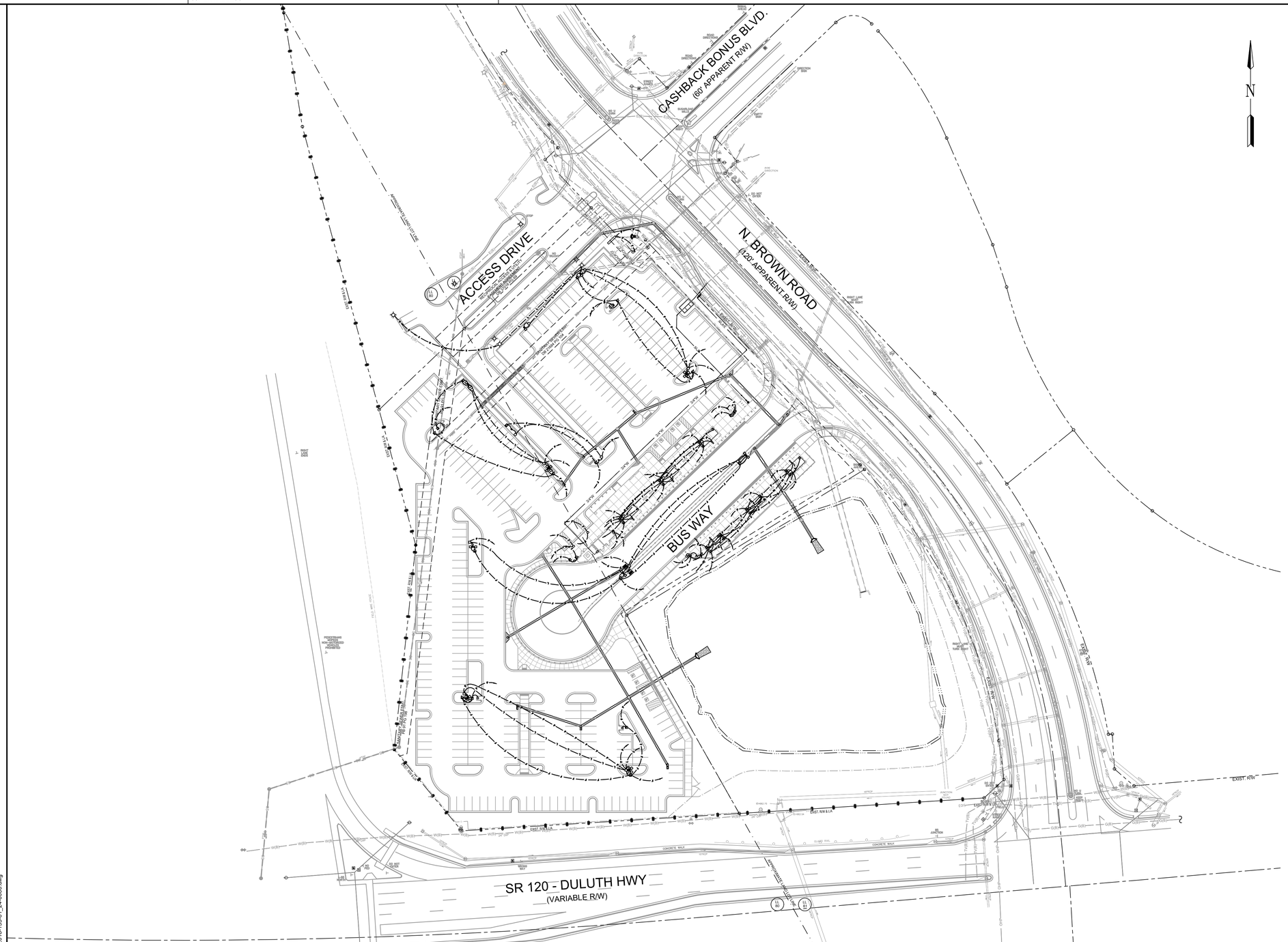
REVISION DATES

11/20/2020		
08/26/2021		

SITE CROSS SECTIONS

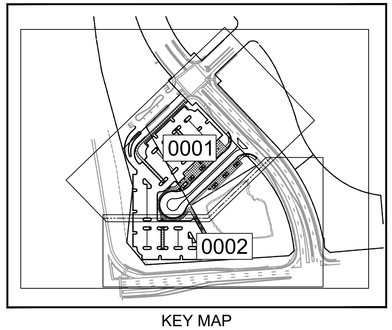
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		



GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 and 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.
5. FOR STORM DRAINAGE LAYOUT INFORMATION, REFER TO DRAWING NO. 18-0000 THRU 18-0002, FOR PROFILES, REFER TO DRAWING NO. 22-0001 THRU 22-0002.
6. FOR SITE LIGHTING AND ELECTRICAL INFORMATION, REFER TO DRAWINGS 25-0000 THRU 25-0007.
7. FOR CCTV INFORMATION, REFER TO DRAWING NO. 28-0003 THRU 28-0013.
8. THIS SITE HAS NO DUMPSTER PAD.
9. REFER TO DRAWINGS 24-0001 THRU 24-0002 FOR DETAILED CALL OUT OF UTILITIES SHOWN.
10. CONTRACTOR SHALL INSTALL MICROWAVE RADAR DETECTION SYSTEM ON EXISTING POLE, IN THE SOUTHWEST QUADRANT, BY THE EXISTING SIGNAL CABINET. MICROWAVE DETECTOR SHALL BE INSTALLED PER MANUFACTURER'S MOUNTING GUIDELINES AND ALL CABLING SHALL BE ROUTED THROUGH EXISTING CONDUIT TO THE CABINET. DETECTION ZONES SHALL BE CONFIGURED TO DETECT LEFT TURN AND THROUGH/RIGHT TURN LANE ON THE ACCESS DRIVE. CONTRACTOR SHALL COORDINATE WITH GWINNETT COUNTY 48 HOURS IN ADVANCE OF WORK AT 678-639-8800



KEY MAP

CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

PROPOSED WATER LINE	W
PROPOSED ELECTRIC	E
PROPOSED COMMINCATIONS	T
PROPOSED LIGHTING CIRCUIT	L
PROPOSED POWER CIRCUIT	P
PROPOSED COMMUNICATION CIRCUIT	F
PROPOSED FIBER OPTIC CONDUIT	FO
PROPOSED TELEPHONE CONDUIT	

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE	
PROPOSED FIRE HYDRANT	
PROPOSED WATER VALVE	
PROPOSED PULL BOX	PB
PROPOSED EMERGENCY CALL BOX	

STATE OF GEORGIA
No. 21371
PROFESSIONAL
8/26/2021
ENGINEER
GEORGE N. KARLINOS

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

REVISION DATES

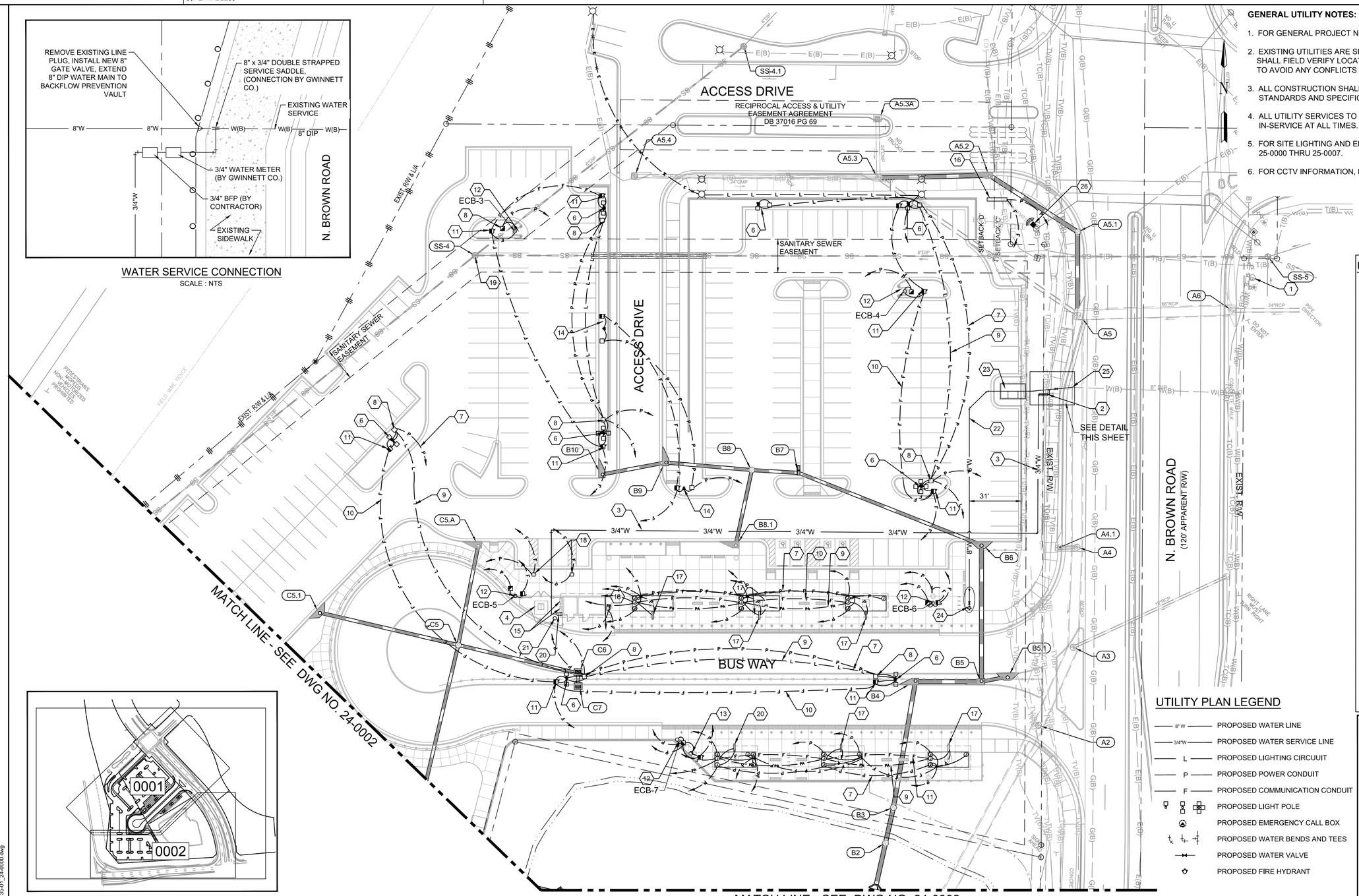
11/20/2020		
05/14/2021		
08/26/2021		

OVERALL UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		24-0000
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

WATER SERVICE CONNECTION
SCALE : NTS



KEY MAP

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5. FOR SITE LIGHTING AND ELECTRICAL INFORMATION, REFER TO DRAWINGS 25-0000 THRU 25-0007.
6. FOR CCTV INFORMATION, REFER TO DRAWING NO. 28-0003 THRU 28-0013.

UTILITY PLAN KEY NOTES

1. EXISTING FIRE HYDRANT
2. 3/4" WATER METER (INSTALLATION BY GWINNETT COUNTY DWR)
3. 3/4" COPPER SERVICE LINE
4. ELECTRIC TRANSFORMER
5. LIGHT POLE
6. LIGHT POLE W/ CAMERA (CAMERA BY OTHERS)
7. ELECTRICAL SERVICE CONDUIT
8. ELECTRIC PULL BOX
9. LIGHTING CIRCUIT CONDUIT
10. FIBER OPTIC CONDUIT
11. FIBER OPTIC PULL BOX
12. EMERGENCY TELEPHONE CALL BOX
13. BREEZE CARD (BY OTHERS)
14. LICENSE PLATE READER CAMERA (BY OTHERS)
15. CONDENSING UNITS
16. CMS ENTRY SIGN
17. CMS SIGN
18. EV CHARGING STATION (BY OTHERS)
19. SANITARY MANHOLE, ADJUST TO GRADE
20. WATER SERVICE CONNECTION, REFER TO MECH. PLAN 37-3101 FOR ADDITION INFORMATION
21. CONDENSATE DRYWELL, REFER TO MECH. PLAN 37-3101 AND 37-3105 FOR ADDITION INFORMATION
22. 8" DIP WATER MAIN
23. 8" BACKFLOW PREVENTION (GWDPR #C-13)
24. FIRE HYDRANT (GWDWR #W6)
25. EXISTING 8" END CAP TO BE REMOVED AND REPLACED WITH 8" GATE VALVE
26. POLE MOUNTED RADAR DETECTION ASSEMBLY

CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

- 8" W — PROPOSED WATER LINE
- 3/4"W — PROPOSED WATER SERVICE LINE
- L — PROPOSED LIGHTING CIRCUUIT
- P — PROPOSED POWER CONDUIT
- F — PROPOSED COMMUNICATION CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED EMERGENCY CALL BOX
- PROPOSED WATER BENDS AND TEES
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

UTILITY PLAN LEGEND

- PROPOSED WATER LINE — W
- PROPOSED ELECTRIC — E
- PROPOSED COMMINCATIONS — T
- PROPOSED LIGHTING CIRCUIT — L
- PROPOSED POWER CIRCUIT — P
- PROPOSED COMMUNICATION CIRCUIT — F
- PROPOSED FIBER OPTIC CONDUIT — FO
- PROPOSED TELEPHONE CONDUIT

UTILITY PLAN LEGEND

- PROPOSED LIGHT POLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PULL BOX — PB
- PROPOSED EMERGENCY CALL BOX

REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARUNIS

ATKINS
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1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

KEY MAP

UTILITY PLAN KEY NOTES

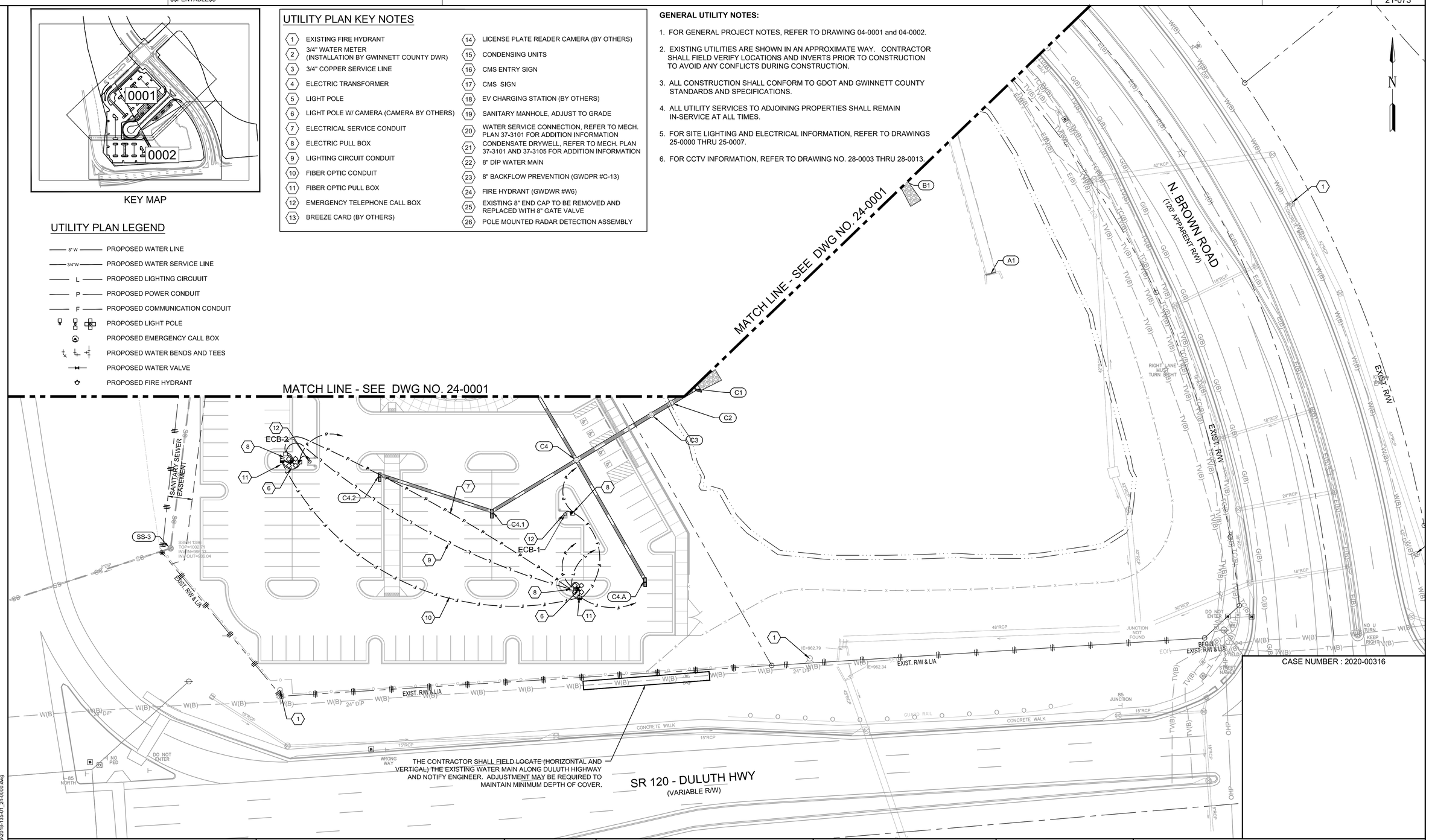
1. EXISTING FIRE HYDRANT
2. 3/4" WATER METER (INSTALLATION BY GWINNETT COUNTY DWR)
3. 3/4" COPPER SERVICE LINE
4. ELECTRIC TRANSFORMER
5. LIGHT POLE
6. LIGHT POLE W/ CAMERA (CAMERA BY OTHERS)
7. ELECTRICAL SERVICE CONDUIT
8. ELECTRIC PULL BOX
9. LIGHTING CIRCUIT CONDUIT
10. FIBER OPTIC CONDUIT
11. FIBER OPTIC PULL BOX
12. EMERGENCY TELEPHONE CALL BOX
13. BREEZE CARD (BY OTHERS)
14. LICENSE PLATE READER CAMERA (BY OTHERS)
15. CONDENSING UNITS
16. CMS ENTRY SIGN
17. CMS SIGN
18. EV CHARGING STATION (BY OTHERS)
19. SANITARY MANHOLE, ADJUST TO GRADE
20. WATER SERVICE CONNECTION, REFER TO MECH. PLAN 37-3101 FOR ADDITION INFORMATION
21. CONDENSATE DRYWELL, REFER TO MECH. PLAN 37-3101 AND 37-3105 FOR ADDITION INFORMATION
22. 8" DIP WATER MAIN
23. 8" BACKFLOW PREVENTION (GWDPR #C-13)
24. FIRE HYDRANT (GWDWR #W6)
25. EXISTING 8" END CAP TO BE REMOVED AND REPLACED WITH 8" GATE VALVE
26. POLE MOUNTED RADAR DETECTION ASSEMBLY

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 and 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.
5. FOR SITE LIGHTING AND ELECTRICAL INFORMATION, REFER TO DRAWINGS 25-0000 THRU 25-0007.
6. FOR CCTV INFORMATION, REFER TO DRAWING NO. 28-0003 THRU 28-0013.

UTILITY PLAN LEGEND

- 8" W — PROPOSED WATER LINE
- 3/4"W — PROPOSED WATER SERVICE LINE
- L — PROPOSED LIGHTING CIRCUUIT
- P — PROPOSED POWER CONDUIT
- F — PROPOSED COMMUNICATION CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED EMERGENCY CALL BOX
- PROPOSED WATER BENDS AND TEES
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

- PROPOSED WATER LINE — W
- PROPOSED ELECTRIC — E
- PROPOSED COMMINCATIONS — T
- PROPOSED LIGHTING CIRCUIT — L
- PROPOSED POWER CIRCUIT — P
- PROPOSED COMMUNICATION CIRCUIT — F
- PROPOSED FIBER OPTIC CONDUIT — FO
- PROPOSED TELEPHONE CONDUIT

UTILITY PLAN LEGEND

- PROPOSED LIGHT POLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PULL BOX — PB
- PROPOSED EMERGENCY CALL BOX

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARDARAS

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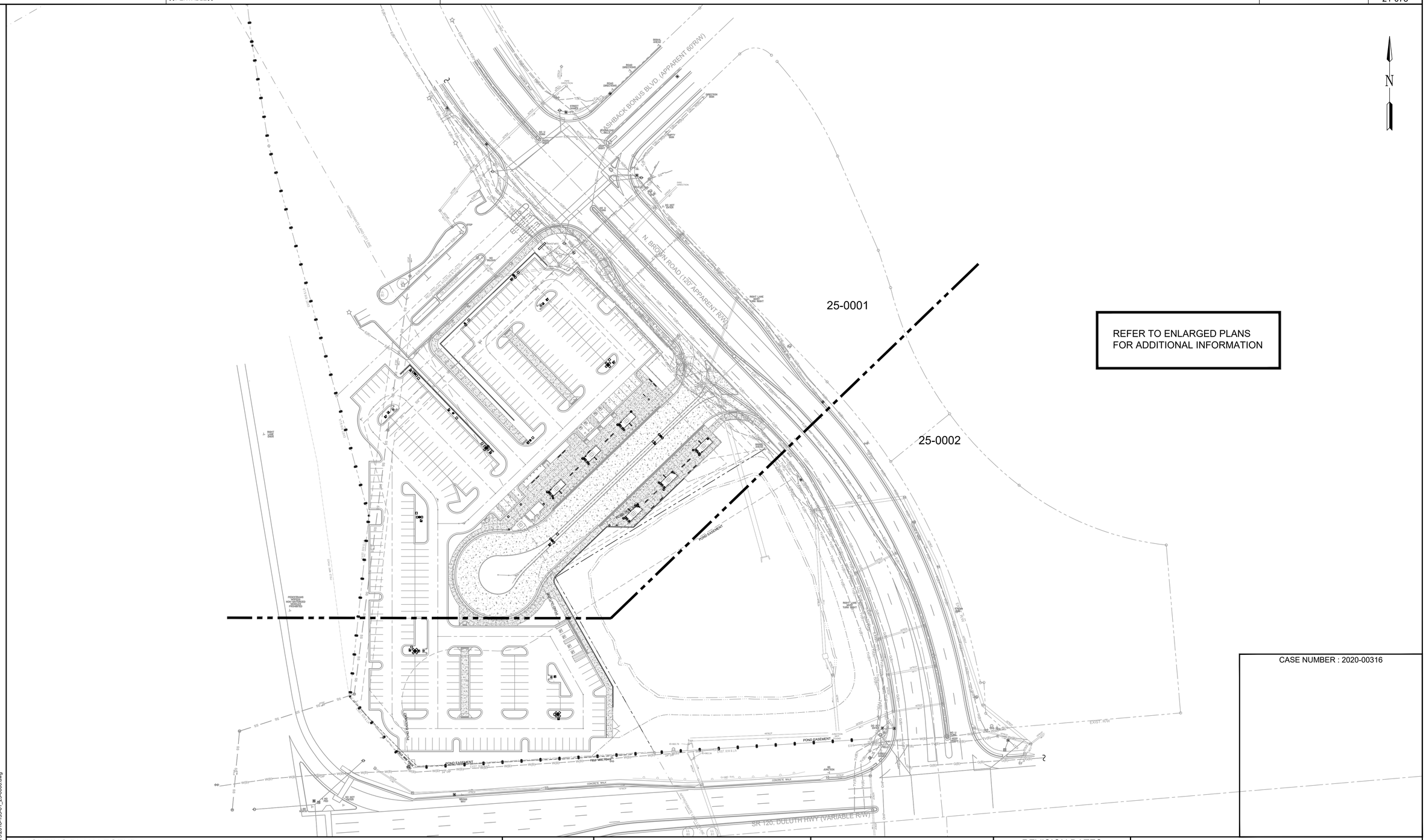
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



LIGHTING PLAN LEGEND

PROPOSED POWER CONDUIT	BLUE PHONE PULLBOX
PROPOSED CCTV FIBER OPTIC CONDUIT	CHANGEABLE MESSAGE SIGN (CMS)
PROPOSED LIGHTING CONDUIT	FIBER PULLBOX
PROPOSED JUNCTION BOX	EMERGENCY CALL BOX — ECB
PROPOSE MEDIA CONVERTER CABINET	CAMERA — CA
PROPOSED LIGHT POLE	ELECTRIC VEHICLE CHARGER — EVC
PULLBOX	

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO
08/18/2021

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

REVISION DATES

OVERALL LIGHTING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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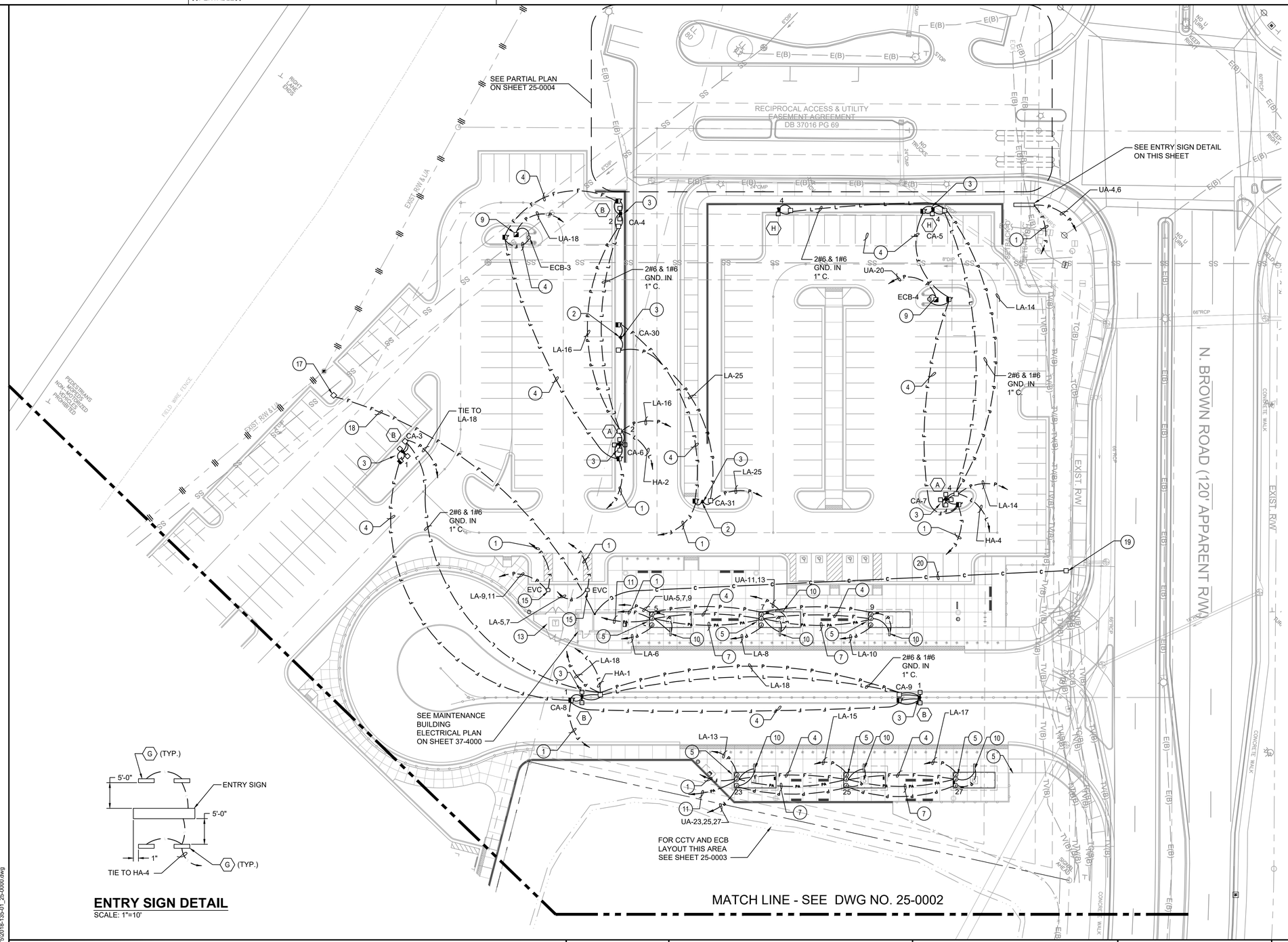
VERIFIED:		DATE:		



ENTRY SIGN DETAIL

SCALE: 1"=10'

NOTES:

1. (2) 2" E.C. WITH PULL WIRE FOR FIBER OPTIC CABLE TO COMMUNICATION ELECTRICAL ROOM.
2. CCTV POLE SEE DETAIL 4 ON SHEET 25-0005.
3. MEDIA CONVERTER CABINET PROVIDED AND INSTALLED BY CCTV CONTRACTOR. COORDINATE WITH CCTV CONTRACTOR FOR EXACT LOCATION.
4. (2) 2" E.C. WITH PULL WIRE FOR FIBER OPTIC CABLE. CAP CONDUITS AT EACH END TO PREVENT WATER INTRUSION.
5. MOUNT JUNCTION BOXES IN BUS SHELTER FOR CMS SIGNS. COORDINATE WITH CMS SIGNS MANUFACTURER FOR NUMBER, LOCATION, TYPE OF J. BOXES FOR CMS SIGNS.
6. MEDIA CONVERTER CABINET PROVIDED AND INSTALLED BY CCTV CONTRACTOR SEE BUS SHELTER PLAN FOR EXACT LOCATION.
7. 1" E.C. WITH PULL WIRE TO PA.
8. COORDINATE LOCATION OF THE PULLBOXES WITH THE DRAINAGE INLET.
9. BLUE PHONE PULLBOX COORDINATE WITH CCTV / COMMUNICATION CONTRACTOR FOR EXACT LOCATION.
10. CMS SIGN COORDINATE MOUNTING HEIGHT WITH ARCH. DRAWINGS.
11. 1" E.C. WITH PULL WIRE TO COMMUNICATION / ELECTRICAL ROOM FOR P.A.
12. (2) 4" E.C. WITH PULL WIRE FOR GDOT TELEPHONE CONNECTION.
13. PROPOSED POWER COMPANY PAD MOUNT TRANSFORMER.
14. (2) 4" E.C. WITH PULL WIRE FOR GDOT FIBER CONNECTION.
15. EV CHARGERS BY OTHERS
16. CCTV AND CMS FIBER OPTIC CABLE WILL RUN IN THE SAME CONDUIT.
17. PULL BOX FOR FUTURE SRTA FIBER POINT OF CONNECTION.
18. (2) 4" E.C. WITH PULL WIRE FOR FUTURE SRTA FIBER. INSTALL CONDUIT 24" BELOW GRADE.
19. PULL BOX FOR FUTURE TELECOMMUNICATION POINT OF CONNECTION.
20. (2) 4" E.C. WITH PULL WIRE FOR FUTURE TELECOMMUNICATION. INSTALL CONDUIT 24" BELOW GRADE.

NOTES:

CA-#	DENOTES CAMERA DESIGNATION / LOCATION
ECB-#	DENOTES CALL BOX DESIGNATION / LOCATION
HA:	277/480V PANEL
LA:	120/208V PANEL
VA:	120/208V PANEL (UPS BACK-UP)

CASE NUMBER : 2020-00316

LIGHTING PLAN LEGEND

PROPOSED POWER CONDUIT	
PROPOSED CCTV FIBER OPTIC CONDUIT	
PROPOSED LIGHTING CONDUIT	
PROPOSED PA CONDUIT	
PROPOSED TELECOMMUNICATIONS CONDUIT	
PROPOSE MEDIA CONVERTER CABINET	
PROPOSED LIGHT POLE	
PROPOSED JUNCTION BOX	J
BLUE PHONE PULLBOX	
CHANGEABLE MESSAGE SIGN (CMS)	
FIBER PULLBOX	F
EMERGENCY CALL BOX	ECB
CAMERA	CA
ELECTRIC VEHICLE CHARGER	EVC
PULLBOX	

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29486 PEDRO L. TREVIN 09/09/2021

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

REVISION DATES

LIGHTING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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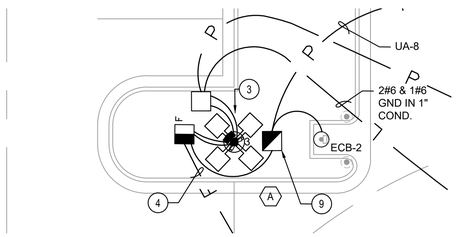
VERIFIED:		DATE:		



LIGHT POLE WITH MEDIA CONVERTER CABINET AND EMERGENCY BOX 1

SCALE: 1"=10'

NOTES:

1. (2) 2" E.C. WITH PULL WIRE FOR FIBER OPTIC CABLE TO COMMUNICATION ELECTRICAL ROOM.
2. CCTV POLE SEE DETAIL 4 ON SHEET 25-0005.
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13. PROPOSED POWER COMPANY PAD MOUNT TRANSFORMER.
14. (2) 4" E.C. WITH PULL WIRE FOR GDOT FIBER CONNECTION.
15. EV CHARGERS BY OTHERS.

NOTES:

CA-#	DENOTES CAMERA DESIGNATION / LOCATION
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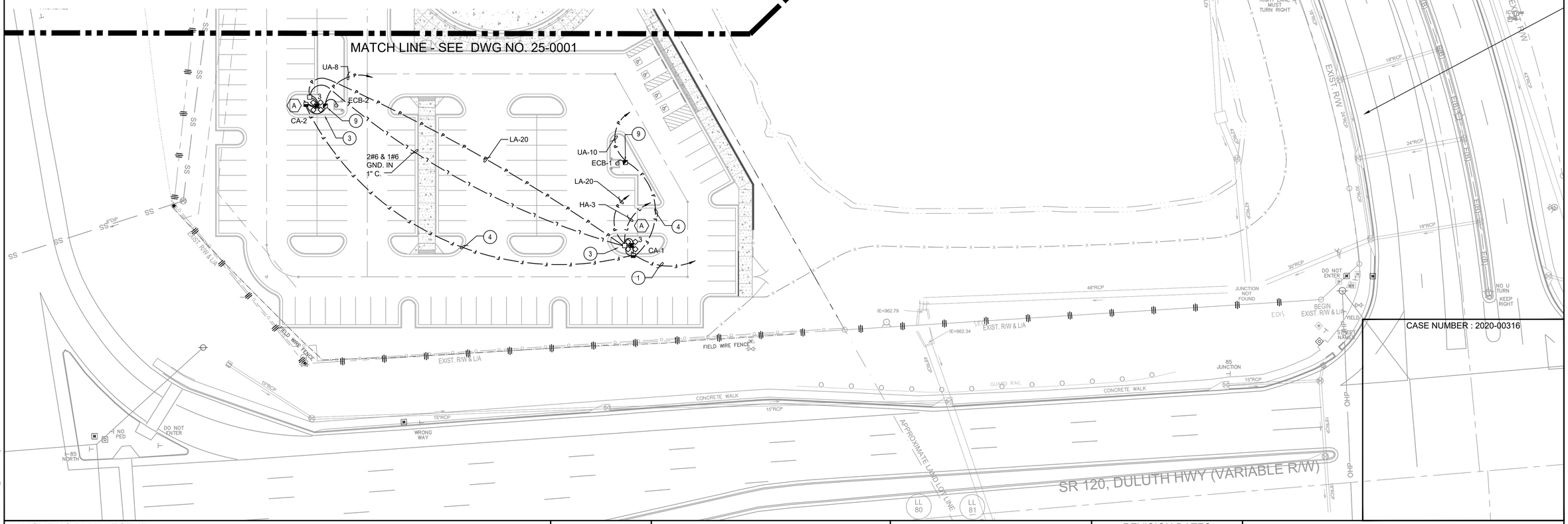

CASE NUMBER : 2020-00316

LIGHTING PLAN LEGEND

PROPOSED POWER CONDUIT	BLUE PHONE PULLBOX
PROPOSED CCTV FIBER OPTIC CONDUIT	CHANGEABLE MESSAGE SIGN (CMS)
PROPOSED LIGHTING CONDUIT	FIBER PULLBOX
PROPOSED PA CONDUIT	EMERGENCY CALL BOX — ECB
PROPOSED JUNCTION BOX	CAMERA — CA
PROPOSED MEDIA CONVERTER CABINET	ELECTRIC VEHICLE CHARGER — EVC
PROPOSED LIGHT POLE	PULLBOX

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO

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(IN FEET)
1 inch = 30 ft.

REVISION DATES

LIGHTING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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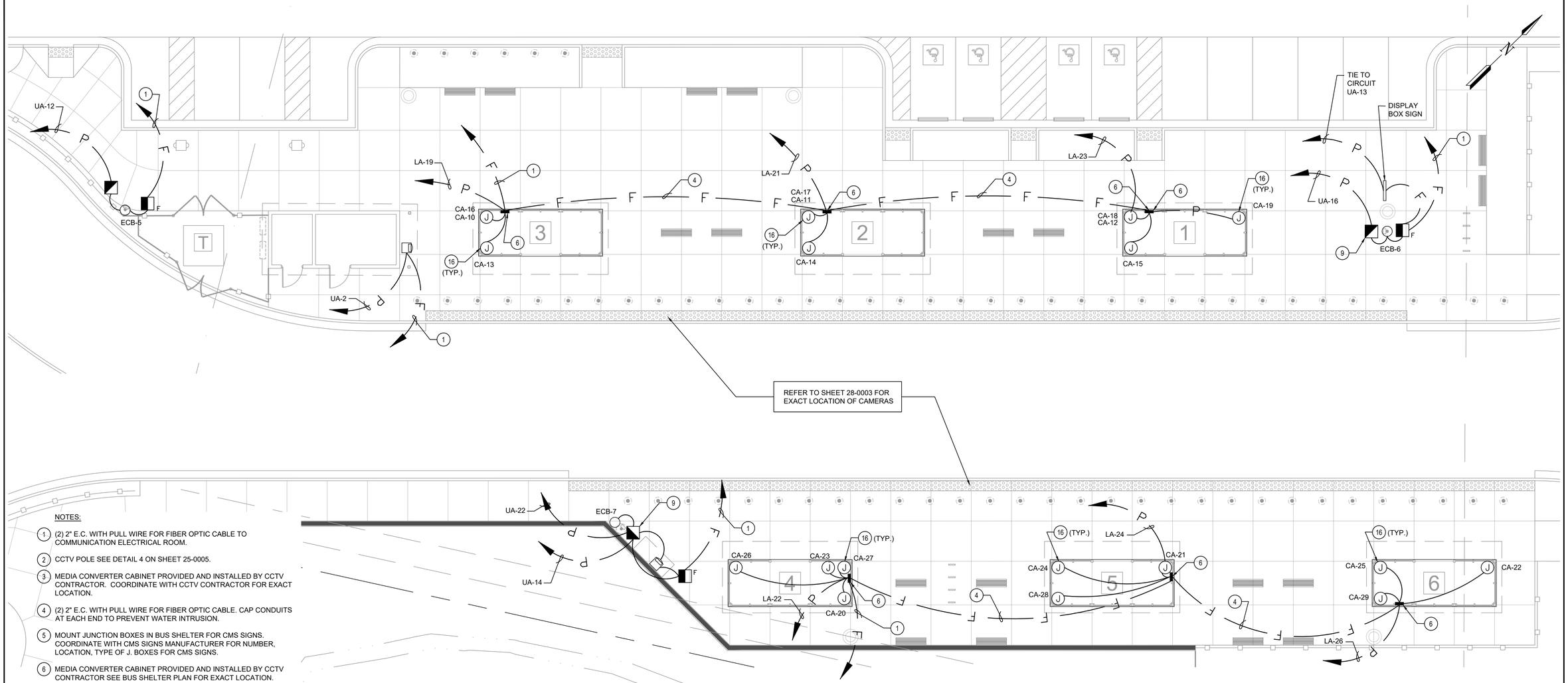

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7. 1" E.C. WITH PULL WIRE FOR PA.
8. COORDINATE LOCATION OF THE PULLBOXES WITH THE DRAINAGE INLET.
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13. PROPOSED POWER COMPANY PAD MOUNT TRANSFORMER.
14. (2) 4" E.C. WITH PULL WIRE FOR GDOT FIBER CONNECTION.
15. EV CHARGERS BY OTHERS.
16. CCTV CAMERA JUNCTION BOX. COORDINATE WITH CCTV CONTRACTOR FOR EXACT LOCATION.
17. CCTV AND CMS FIBER OPTIC CABLE WILL RUN IN THE SAME CONDUIT.

NOTES:

CA-#	DENOTES CAMERA DESIGNATION / LOCATION
ECB-#	DENOTES CALL BOX DESIGNATION / LOCATION
HA:	277/480V PANEL
LA:	120/208V PANEL
VA:	120/208V PANEL (UPS BACK-UP)

CASE NUMBER : 2020-00316

LIGHTING PLAN LEGEND

PROPOSED POWER CONDUIT	BLUE PHONE PULLBOX
PROPOSED CCTV FIBER OPTIC CONDUIT	CHANGEABLE MESSAGE SIGN (CMS)
PROPOSED LIGHTING CONDUIT	FIBER PULLBOX
PROPOSED PA CONDUIT	EMERGENCY CALL BOX — ECB
PROPOSED JUNCTION BOX	CAMERA — CA
PROPOSED MEDIA CONVERTER CABINET	ELECTRIC VEHICLE CHARGER — EVC
PROPOSED LIGHT POLE	PULLBOX

GEORGIA REGISTERED No. 29486 PROFESSIONAL 08/24/2021 ENGINEER PEDRO L. TREVIÑO

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10 5 0 10 20
(IN FEET)
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REVISION DATES

ENLARGED BUS SHELTER AREA CCTV POWER PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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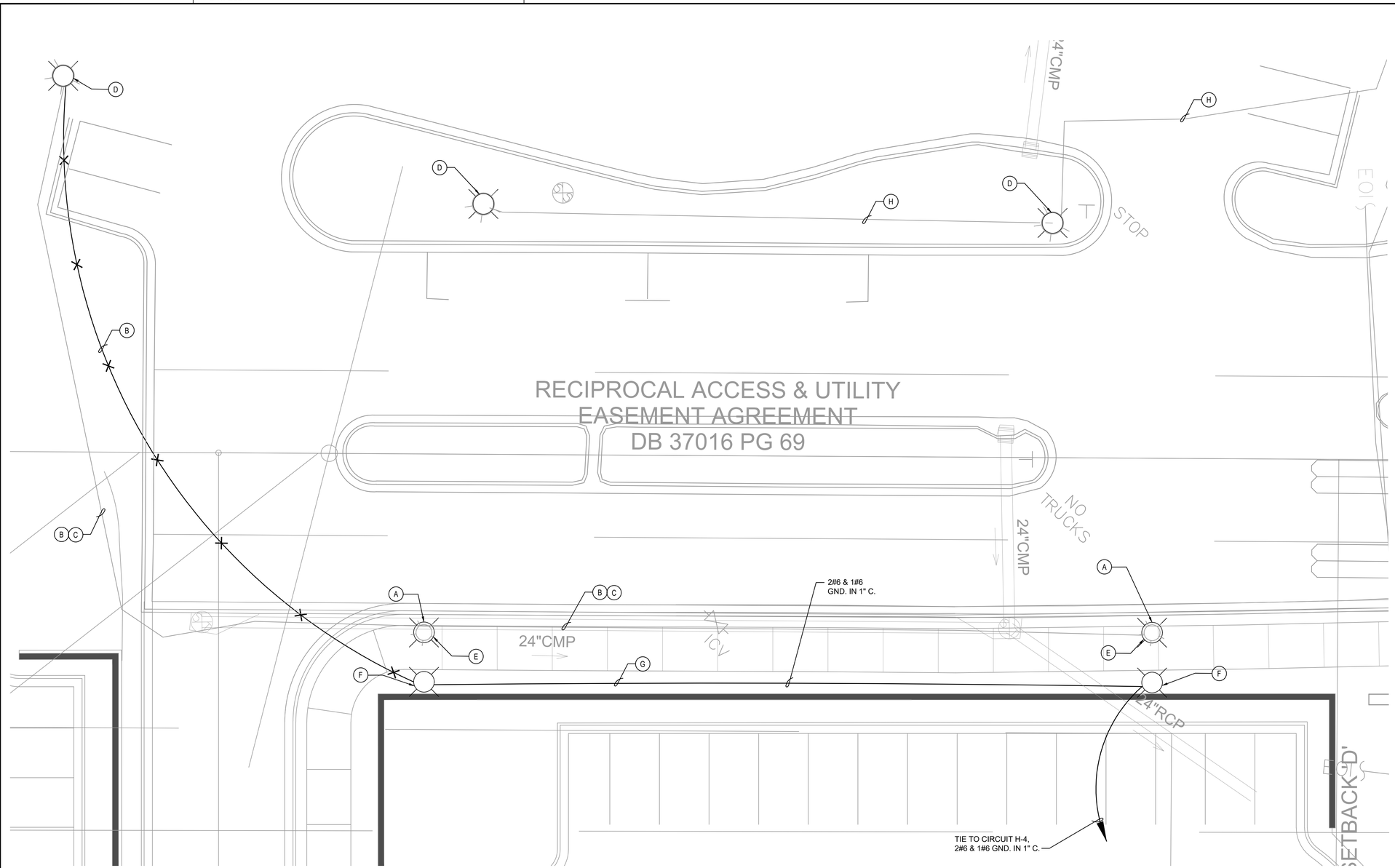

NOTES:

- (A) DISCONNECT AND REMOVE EXISTING ROUND AREA LIGHT FIXTURE.
- (B) DISCONNECT AND REMOVE EXISTING WIRING AND CONDUIT.
- (C) REMOVE WIRING BACK TO LAST REMAINING DEVICE.
- (D) EXISTING ROUND AREA LIGHT FIXTURE AND POLE TO REMAIN.
- (E) DISCONNECT AND REMOVE EXISTING LIGHT POLE.
- (F) NEW ROUND LED LIGHT FIXTURE WITH POLE TO MATCH EXISTING. HEIGHT AND COLOR TO MATCH EXISTING.
- (G) NEW FEEDER AND CONDUIT.
- (H) EXISTING WIRING AND CONDUIT TO REMAIN.

CASE NUMBER : 2020-00316

LIGHTING PLAN LEGEND

EXISTING LIGHTING POLE	
EXISTING CONDUIT AND WIRING	E(B) E(B)
NEW CONDUIT AND WIRING TO MATCH EXISTING	
EXISTING	E
EXISTING RELOCATED	ER

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO 08/24/2021

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10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

ENLARGED ENTRANCE AREA PARTIAL PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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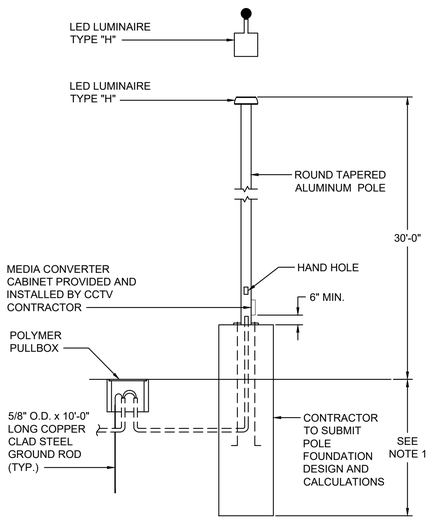
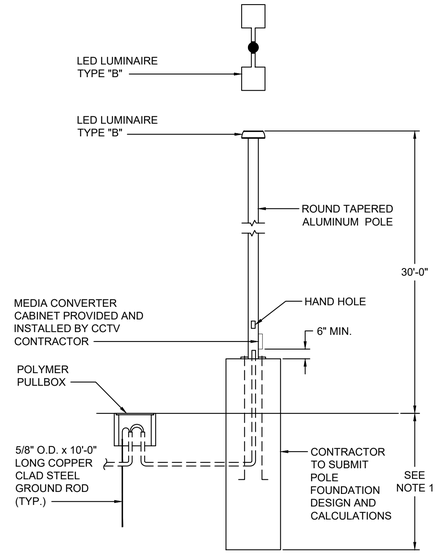


NOTE:

1. CONTRACTOR TO SUBMIT POLE FOUNDATION DESIGN AND CALCULATIONS

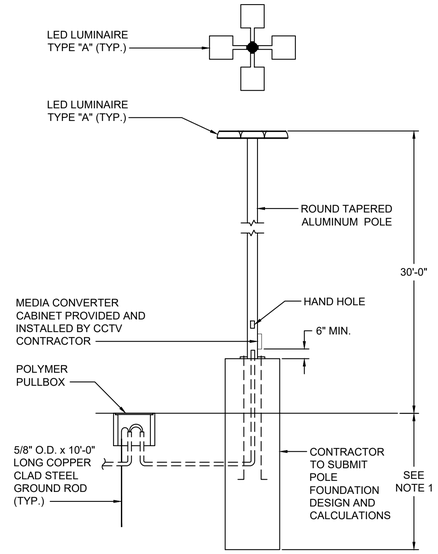
1 LIGHT POLE DETAIL - SINGLE
N.T.S.



NOTE:

1. CONTRACTOR TO SUBMIT POLE FOUNDATION DESIGN AND CALCULATIONS

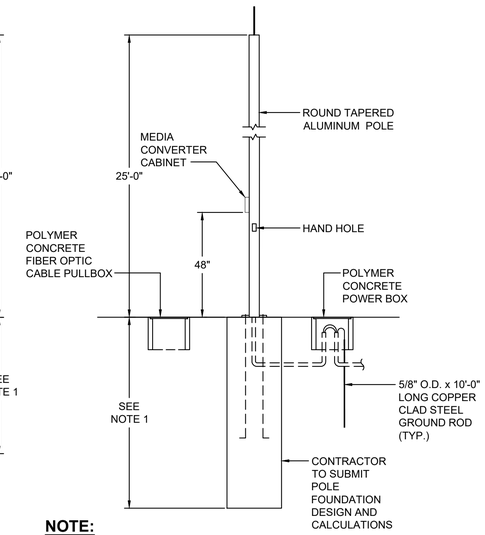
2 LIGHT POLE DETAIL - SINGLE
N.T.S.



NOTE:

1. CONTRACTOR TO SUBMIT POLE FOUNDATION DESIGN AND CALCULATIONS

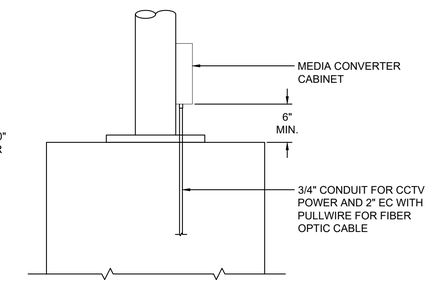
3 LIGHT POLE DETAIL - QUAD
N.T.S.



NOTE:

1. CONTRACTOR TO SUBMIT POLE FOUNDATION DESIGN AND CALCULATIONS

4 CCTV POLE DETAIL
N.T.S.



5 MEDIA/CCTV POWER CONDUIT DETAIL
N.T.S.

ELECTRICAL GENERAL NOTES:

1. PRIOR TO BID, VISIT JOB SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. SPECIAL ATTENTION SHALL BE GIVEN TO CONDITIONS OF PANELS AND SWITCHING EQUIPMENT WHERE NEW WORK IS REQUIRED. MODIFY EXISTING PANELS AND EQUIPMENT BY THE ADDITION OF CIRCUIT BREAKERS, WIRING, ETC. AS REQUIRED IN ORDER TO PROVIDE A COMPLETE AND OPERATING SYSTEM. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.), AND GOVERNING MUNICIPAL, STATE AND LOCAL CODES, AND SHALL BE PERFORMED IN A THOROUGH AND WORKMAN LIKE MANNER BY COMPETENT WORKMEN.
3. CONTRACTOR SHALL GUARANTEE THE ENTIRE ELECTRICAL WORK, INCLUDING PARTS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE OF OWNER.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF OWNER.
5. MAINTAIN A COMPLETE SET OF ELECTRICAL PRINTS FOR INDICATING ALL CHANGES. USE COLORED PENCILS TO MARK CHANGES AT THE TIME OF EXECUTION AND DELIVER THE SET TO ARCHITECT / ENGINEER UPON COMPLETION.
6. ALL MATERIALS SHALL BE NEW, OF AMERICAN MANUFACTURE, AND BEAR THE UNDERWRITER'S LABORATORY AND UNION LABELS AS APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULES OF MATERIALS.
7. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON TYPE, OF QUICK-MAKE ACTION, RATED AT 22,000 (120V), 22,000 (277/480V) AIC RMS. SYMMETRICAL. EACH MOLDED CASE CIRCUIT BREAKER SHALL HAVE THERMAL MAGNETIC TRIP DEVICE.
8. LIGHTING FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY WIRING LAMP HOLDERS, REFLECTORS, GLASSWARE AND MOUNTING ACCESSORIES AS REQUIRED AND POLES.
9. CONTRACTOR SHALL MAKE ALL NECESSARY EXCAVATIONS, CUTTING AND DO ALL REATTACHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
10. AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
11. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. CONDUITS SHALL COMPLY WITH N.E.C. PVC CONDUIT SHALL BE SCHEDULE 40 AND SHALL BE USED WHERE CONDUIT IS RUN IN CONCRETE SLABS, OR UNDERGROUND. ELECTRICAL METALLIC TUBING CONDUIT SHALL BE USED ON ALL INTERIOR WIRING. GRS CONDUIT SHALL BE USED ON ALL EXTERIOR WIRING.
12. ALL CONDUCTORS SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN No. 12 AWG. INSTALL A GROUNDING CONDUCTOR IN ALL PVC CONDUITS SIZED PER N.E.C. INSULATION SHALL BE 600V. RATED AND SHALL BE THWN.
13. VERIFY SERVICE VOLTAGE BEFORE ORDERING ANY ELECTRICAL EQUIPMENT.
14. SPLICES FOR No. 6 AWG OR SMALLER SHALL BE MADE WITH UL LISTED MECHANICAL PRESSURE CONNECTORS. SPLICES FOR No. 4 AWG OR LARGER SHALL BE MADE WITH MECHANICAL PRESSURE, SOLDERLESS CONNECTORS, AND SHALL BE BURNDY SERVITS OR APPROVED EQUAL.
15. ANY EXISTING EQUIPMENT OR DEVICES INADVERTENTLY DE-ENERGIZED OR DISCONNECTED SHALL BE RE-ENERGIZED AT NOT COST TO THE OWNER.
16. EXISTING EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE REMOVED FROM THE JOB SITE.
17. COVER PLATES USED ON ALL WIRING DEVICES SHALL BE STAINLESS STEEL.
18. OUTLET BOXES SHALL BE GALVANIZED, WITH SUITABLE PLASTER RINGS OR TRIMS TO CONFORM TO FINISH SURFACE AS REQUIRED. EXTRA LARGE BOXES SHALL BE USED IN ACCORDANCE WITH N.E.C. IN PLACE OF SIZE INDICATED WHERE NECESSARY TO PREVENT UNDUE CROWDING OF WIRES. GANG BOXES SHALL BE USED FOR GANG SWITCHES.
19. SAFETY SWITCHES SHALL BE HEAVY DUTY, FUSED OR NON-FUSED AND SIZES AS INDICATED.
20. GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
21. LOADS IN GUTTERS SHALL BE PROPERLY BALANCED BETWEEN PHASES.
22. EQUIPMENT SUPPLY BY OTHERS TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
23. ELECTRICAL CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES.
24. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
25. PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING, CHECK NAMEPLATE DATA ON A/C EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT PROTECTION.
26. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
27. CIRCUIT BREAKERS SERVING HVAC EQUIPMENT WITH A REQUIREMENT FOR HACR BREAKERS, IN THE RANGE OF 15 - 60 AMPS, UL APPROVED HACR BREAKERS SHALL BE USED.
28. ALL CONTACTORS TO BE ELECTRICALLY OR MECHANICALLY HELD AS INDICATED ON THE DRAWINGS.
29. PROVIDE PULLWIRE IN EMPTY RACEWAYS.
30. PROVIDE NEW TYPED DIRECTORIES FOR PANELBOARDS.
31. MINIMUM CONDUIT SIZE FOR ELECTRICAL WORK SHALL BE 3/4" AND FOR DAT/VOICE SHALL BE 1" CONDUIT UNLESS OTHERWISE NOTED.
32. PROVIDE ARC-FAULT HAZARD WARNING LABEL ON ALL EQUIPMENT AS PER NEC 110.16.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
09/30/2021		

LIGHTING DETAILS, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		25-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

EQUAL TO: SQ. D OR APPROVED EQUAL
TYPE:
MOUNTING: SURFACE
A.I.C.: 42,000 W/GROUND BAR NEMA 3R

SERVICE ENTRANCE RATED PANEL " HA "

VOLTAGE: 277/480V, 3Ø, 4W
MAINS: 225A. NEUTRAL: F/N
TYPE MAINS: 3P. 225A. MCB 100% ●
MAINS LOCATION: TOP

	DESCRIPTION	ØA KVA	ØB KVA	ØC KVA	WIRES & CONDUIT	POLES & TRIP	CIR NO	CIR NO	POLES & TRIP	WIRES & CONDUIT	ØA KVA	ØB KVA	ØC KVA	DESCRIPTION	
*	LIGHTING	2.6			#6;1"	1P-20	1	2	1P-20	#6;1"	2.6			LIGHTING	*
*	LIGHTING		3.5		#6;1"	1P-20	3	4	1P-20	#6;1"		2.6		LIGHTING	*
	SPARE			.5	-	1P-20	5	6	1P-20	-			.5	SPARE	
	SPARE	.5			-	1P-20	7	8			37.5			PANEL LA	
	SPARE		.5		-	1P-20	9	10	3P-175	SEE		37.5		VIA 112.5 KVA	
	SPARE			.5	-	1P-20	11	12		RISER			37.5	TRANSFORMER	
	SPARE	.5			-	1P-20	13	14	1P-20	-	.5			SPARE	
	SPARE		.5		-	1P-20	15	16	1P-20	-		.5		SPARE	
	SPARE			.5	-	1P-20	17	18	1P-20	-			.5	SPARE	
	SPACE	-			-	—	19	20	—	-	-			SPACE	
	SPACE				-	—	21	22	—	-				SPACE	
	SPACE			-	-	—	23	24	—	-			-	SPACE	
	SPACE	-			-	—	25	26	—	-	-			SPACE	
	SPACE		-		-	—	27	28	—	-		-		SPACE	
	SPACE			-	-	—	29	30	—	-			-	SPACE	
							31	32							
							33	34							
							35	36							
							37	38							
							39	40	3P-30	-		-		SPD	
							41	42					-		
	CONNECTED LOAD	3.6	4.5	1.5							40.6	40.6	38.5	CONNECTED LOAD	

● PROVIDE SHUNT TRIP

TOTAL CONNECTED KVA: SEE CALCULATION
TOTAL DEMAND KVA: SEE CALCULATION

* SEE CONTACTOR NOTE BELOW

EQUAL TO: SQ. D OR APPROVED EQUAL
TYPE:
MOUNTING: SURFACE
A.I.C.: 22,000 W/GROUND BAR

PANEL " UA "

VOLTAGE: 120/208V, 3Ø, 4W
MAINS: 100 NEUTRAL: F/N
TYPE MAINS: 3P 100 AMP
MAINS LOCATION: TOP

DESCRIPTION	ØA KVA	ØB KVA	ØC KVA	WIRES & CONDUIT	POLES & TRIP	CIR NO	CIR NO	POLES & TRIP	WIRES & CONDUIT	ØA KVA	ØB KVA	ØC KVA	DESCRIPTION
T.T.B. RECEPT.	.72			#12;3/4"	1P-20	1	2	1P-20	#12;3/4"	.5			BREEZE TICKET
T.T.B. RECEPT.		.72		#12;3/4"	1P-20	3	4	2P-20	#8;1"		.8		ENTRANCE CMS
TERMINAL BLDG CMS			.6	#10;3/4"	1P-20	5	6					.8	
TERMINAL BLDG CMS	.6			#10;3/4"	1P-20	7	8	1P-20	#10;3/4"	.3			CALL BOX ECB-2
TERMINAL BLDG CMS		.6		#10;3/4"	1P-20	9	10	1P-20	#10;3/4"		.3		CALL BOX ECB-1
TERMINAL BLDG CMS			.6	#10;3/4"	2P-20	11	12	1P-20	#10;3/4"			.3	CALL BOX ECB-5
	.6					13	14	1P-20	#10;3/4"	.3			CALL BOX ECB-7
RACK No. 1		1.3		#10;3/4"	2P-30	15	16	1P-20	#10;3/4"		.3		CALL BOX ECB-6
			1.3			17	18	1P-20	#10;3/4"			.3	CALL BOX ECB-3
RACK No. 2	1.3			#10;3/4"	2P-30	19	20	1P-20	#10;3/4"	.3			CALL BOX ECB-4
		1.3				21	22	1P-20	#10;3/4"		.8		BREEZE TICKET
TERMINAL BLDG. CMS			.6	#10;3/4"	1P-20	23	24	1P-20	-			.5	SPARE
TERMINAL BLDG. CMS	.6			#10;3/4"	1P-20	25	26	1P-20	-	.5			SPARE
TERMINAL BLDG. CMS		.6		#10;3/4"	1P-20	27	28	1P-20	-		.5		SPARE
SPARE			.5		1P-20	29	30	1P-20	-			.5	SPARE
SPARE	.5			-	1P-20	31	32	—	-	-			SPACE
SPACE		-		-	—	33	34	—	-		-		SPACE
SPACE			-	-	—	35	36	—	-			-	SPACE
SPACE				-	—	37	38						
SPACE		-		-	—	39	40	3P-30	-		-		SPD
SPACE			-	-	—	41	42					-	
CONNECTED LOAD	3.2	3.9	2.5							1.4	1.4	1.4	CONNECTED LOAD

TOTAL CONNECTED KVA: 14.0 VA
TOTAL DEMAND KVA:

PANEL HA CALCULATION

LIGHTING LOAD	11.3 KVA x 125 =	14.2 KVA
REMAINDER LOAD	118.0 KVA x 100 =	118.0 KVA
		132.2 KVA

132.2 KVA ÷ 480V, 3 PHASE = 159 AMPS.

PANEL LA CALCULATION

LIGHTING LOAD	4.2 KVA x 125 =	5.0 KVA
LARGEST HVAC LOAD	2.7 KVA x 125 =	3.4 KVA
HVAC LOAD	2.7 KVA x 100 =	2.7 KVA
REMAINDER LOAD	64.8 KVA x 100 =	64.8 KVA
		75.9 KVA

75.9 KVA ÷ 208V, 3 PHASE = 211 AMPS.

* CONTACTOR NOTE:

CIRCUIT HA-1: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-3: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-5: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-7: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-9: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-2: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-4: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.
CIRCUIT HA-6: 3 POLE, 20 AMP LIGHTING CONTACTOR AND 7/24 TIME CLOCK WITH RESERVE.

EQUAL TO: SQ. D OR APPROVED EQUAL
TYPE:
MOUNTING: SURFACE
A.I.C.: 22,000 W/GROUND BAR NEMA 3R

PANEL " LA "

VOLTAGE: 120/208V, 3Ø, 4W
MAINS: 400A. NEUTRAL: F/N
TYPE MAINS: 3P. 400 AMP.
MAINS LOCATION: TOP

	DESCRIPTION	ØA KVA	ØB KVA	ØC KVA	WIRES & CONDUIT	POLES & TRIP	CIR NO	CIR NO	POLES & TRIP	WIRES & CONDUIT	ØA KVA	ØB KVA	ØC KVA	DESCRIPTION	
	MAINT. BLDG. LTG.	.2			#12;3/4"	1P-20	1	2	1P-20	#12;3/4"	.72			MAINT. BLDG. REC.	
*	MAINT. BLDG. EXT. LTG.		.2		#12;3/4"	1P-20	3	4	1P-20	#12;3/4"		.72		MAINT. BLDG. REC.	
	EV CHARGER			9.1	3#3&1#8	2P-100	5	6	1P-20	#10;3/4"			.6	BUS SHELTER LTG.	▲
		9.1			G;1 1/2"		7	8	1P-20	#10;3/4"	.6			BUS SHELTER LTG.	▲
▲	EV CHARGER		9.1		3#3&1#8	2P-100	9	10	1P-20	#10;3/4"		.6		BUS SHELTER LTG.	▲
				9.1	G;1 1/2"		11	12	1P-20	#10;3/4"			.3	LICENSES PLATE CCTV	
▲	BUS SHELTER LTG.	.6			#10;3/4"	1P-20	13	14	1P-20	#10;3/4"	.3			CCTV CA-5 & 7	
▲	BUS SHELTER LTG.		.6		#10;3/4"	1P-20	15	16	1P-20	#10;3/4"		.3		CCTV CA-4 & 6	
▲	BUS SHELTER LTG.			.6	#10;3/4"	1P-20	17	18	1P-20	#10;3/4"			.5	CCTV CA-3,8 & 9	
	CCTV CA-10,13 & 16	.5			#10;3/4"	1P-20	19	20	1P-20	#10;3/4"	.3			CCTV CA-1 & 2	
	CCTV CA-11,14 & 17		.5		#10;3/4"	1P-20	21	22	1P-20	#10;3/4"		.6		CCTV CA-20,23,26 & 27	
	CCTV CA-12,15,18 & 19			.6	-#10;3/4"	1P-20	23	24	1P-20	#10;3/4"			.5	CCTV CA-21,24 & 28	
	CCTV CA-30 & 31	.3			#10;3/4"	1P-20	25	26	1P-20	#10;3/4"	.5			CCTV CA-22,25 & 29	
	SHUNT TRIP SYSTEM		.2		#12;3/4"	1P-20	27	28	1P-20	#10;3/4"		.4		GFI RECEPT.	
	HP-1			1.35	#8;3/4"	2P-35	29	30	2P-35	#8;3/4"			1.35	HP-2	
		1.35					31	32		-	1.35				
	SPACE		-		-	—	33	34	1P-20	-		.5		SPARE	
	SPACE			-	-	—	35	36	1P-20	-			.5	SPARE	
		6.7			SEE		37	38			-				
	UPS		6.7		RISER	3P-80	39	40	3P-30	-		-		SPD	
				6.7			41	42					-		
	CONNECTED LOAD	18.75	17.6	27.45							3.77	3.12	3.75	CONNECTED LOAD	

▲ VIA PHOTOCELL MOUNTED ON BUS SHELTER ROOF

TOTAL CONNECTED KVA: SEE CALCULATION
TOTAL DEMAND KVA: SEE CALCULATION

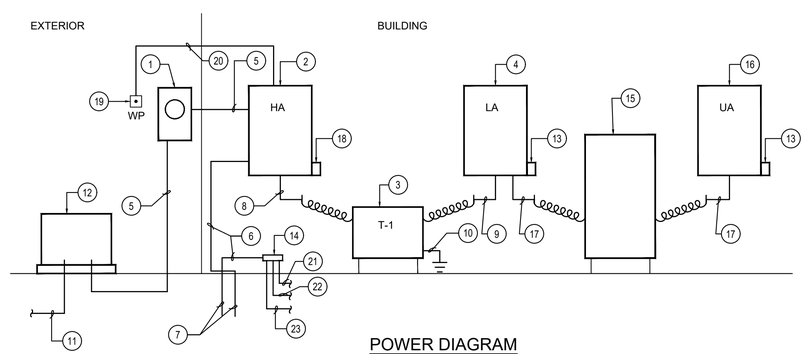
* VIA 24/7 TIME SWITCH AND 4 POLE 20A. LIGHTING CONTACTOR

RISER NOTES:

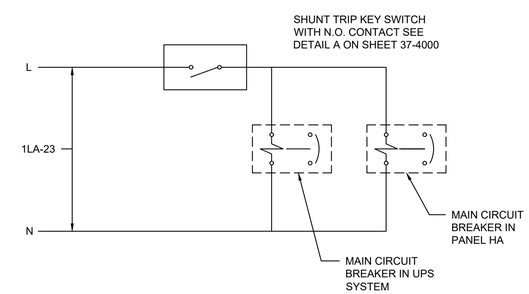
1. KILOWATT HOUR METER (KWHR)
2. PANEL HA WITH SHUNT TRIP
3. 112.5 KVA, 480-120/208V, 3Ø, 4W DRY TYPE TRANSFORMER T-1
4. PANEL LA
5. SERVICE FEEDER 4#4/0 IN 2" COND.
6. 1#2 GND. IN 1" COND.
7. (2) 5/8" O.D. x 10'-0" LONG COPPER CLAD STEEL GROUND RODS (6'-0" APART MIN.)
8. 3#2/0 & 1#4 GND. IN 2" COND.
9. (2) SETS OF 4#3/0 & 1#3 GND. IN 2" COND. EACH
10. 1#4 IN 1" COND.
11. GEORGIA POWER CONDUIT/CABLE
12. PAD MOUNTED TRANSFORMER
13. SURGE PROTECTION DEVICE (SPD)
14. MAIN ELECTRICAL GROUND BUS BAR (MGB)
15. UPS EQUAL TO: POWERWARE UPS 9355 (20 KVA / 18 KW)
16. PANEL UA
17. 4#3 & 1#8 GND. IN 1 1/2" COND.
18. SURGE PROTECTION DEVICE (SPD) SERVICE RATED
19. KEYED OPERATED SHUNT TRIP WP
20. CONTROL WIRING IN 3/4"
21. 1#6 IN 1/2"C TO (TMGB)
22. 1#6 IN 1/2"C BOND TO BLDG STEEL
23. 1#6 IN 1/2"C BOND TO COLD WATER PIPE

LIGHTING FIXTURE SCHEDULE

TAG ⬡	MANUFACTURER	CATALOG NO.	LAMP NO.	LAMP TYPE	VOLTS	LIGHTING POWER WATTAGE	MOUNTING	DESCRIPTION / OPTIONS
A	LITHONIA	QUAD DSX2 LED P8 40K T5W RPA PER DF DDBXD POLE MOUNTED 30' AFG ON RT-P	4	LED	MVOLT	1724W	POLE	LED LUMINAIRE WITH TYPE V WIDE DISTRIBUTION MOUNTED ON A NOMINAL 30' ROUND TAPERED ALUMINUM POLE. POLE TO BE MINIMUM 130 MPH EPA RATING. FINISH OF POLE AND LUMINAIRE TO BE DARK BRONZE. PROVIDE WITH DOUBLE FUSING.
B	LITHONIA	TWIN DSX2 LED P8 40K T3M RPA PER DF DDBXD POLE MOUNTED 30' AFG ON POLE	2	LED	MVOLT	862W	POLE	LED LUMINAIRE WITH TYPE III DISTRIBUTION MOUNTED ON A NOMINAL 30' ROUND TAPERED ALUMINUM POLE. POLE TO BE MINIMUM 130 MPH EPA RATING. FINISH OF POLE AND LUMINAIRE TO BE DARK BRONZE. PROVIDE WITH DOUBLE FUSING.
C	LITHONIA	WSQ LED 2 10A700/30K SR111 MVOLT DF DDBXD	1	LED	MVOLT		SURFACE	LED LUMINAIRE WITH TYPE III MEDIUM DISTRIBUTION MOUNTED ON WALL AT 10'-0" A.F.F.
D	LITHONIA	CLX96 6000 LM HEF RDL MVOLT G210 40K 80 CRI SKGVM WITH CLXANGBKT	1	LED	MVOLT	70.4W	SURFACE / BRACKET	LED STRIP MOUNTED ON BRACKET TAMDEUM CONNECTION. ASYMMETRIC DISTRIBUTION. BRACKET TO BE PAINTED SMOKE GRAY.
F	LITHONIA	CLX L48 4000LM SFD WDL MVOLT GZ10 40K 80CRI WH	1	LED	120	28	SURFACE	
G	HYDREL	RHY3 BPCB WHT53K MVOLT WFL SASM LDIM DBL	1	LED	MVOLT		SURFACE	
H	LITHONIA	SINGLE DSX2 LED P8 40K T3M RPA PER DF DDBXD POLE MOUNTED 30' AFG ON POLE	1	LED	MVOLT	431W	POLE	LED LUMINAIRE WITH TYPE III DISTRIBUTION MOUNTED ON A NOMINAL 30' ROUND TAPERED ALUMINUM POLE. POLE TO BE MINIMUM 130 MPH EPA RATING. FINISH OF POLE AND LUMINAIRE TO BE DARK BRONZE. PROVIDE WITH DOUBLE FUSING.
K	LITHONIA	CLX48 5000 LM HEF RDL MVOLT G210 40K 80 CRI SKGVM WITH CLXANGBKT	1	LED	MVOLT	32.9W	SURFACE / BRACKET	LED STRIP MOUNTED ON BRACKET TAMDEUM CONNECTION. ASYMMETRIC DISTRIBUTION. BRACKET TO BE PAINTED SMOKE GRAY.
L	LITHONIA	CLX36 5250 LM HEF RDL MVOLT G210 40K 80 CRI SKGVM WITH CLXANGBKT	1	LED	MVOLT	37.9W	SURFACE / BRACKET	LED STRIP MOUNTED ON BRACKET TAMDEUM CONNECTION. ASYMMETRIC DISTRIBUTION. BRACKET TO BE PAINTED SMOKE GRAY.



POWER DIAGRAM
N.T.S.



SHUNT TRIP WIRING DIAGRAM
N.T.S.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIN

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Tel: (770)933-0280

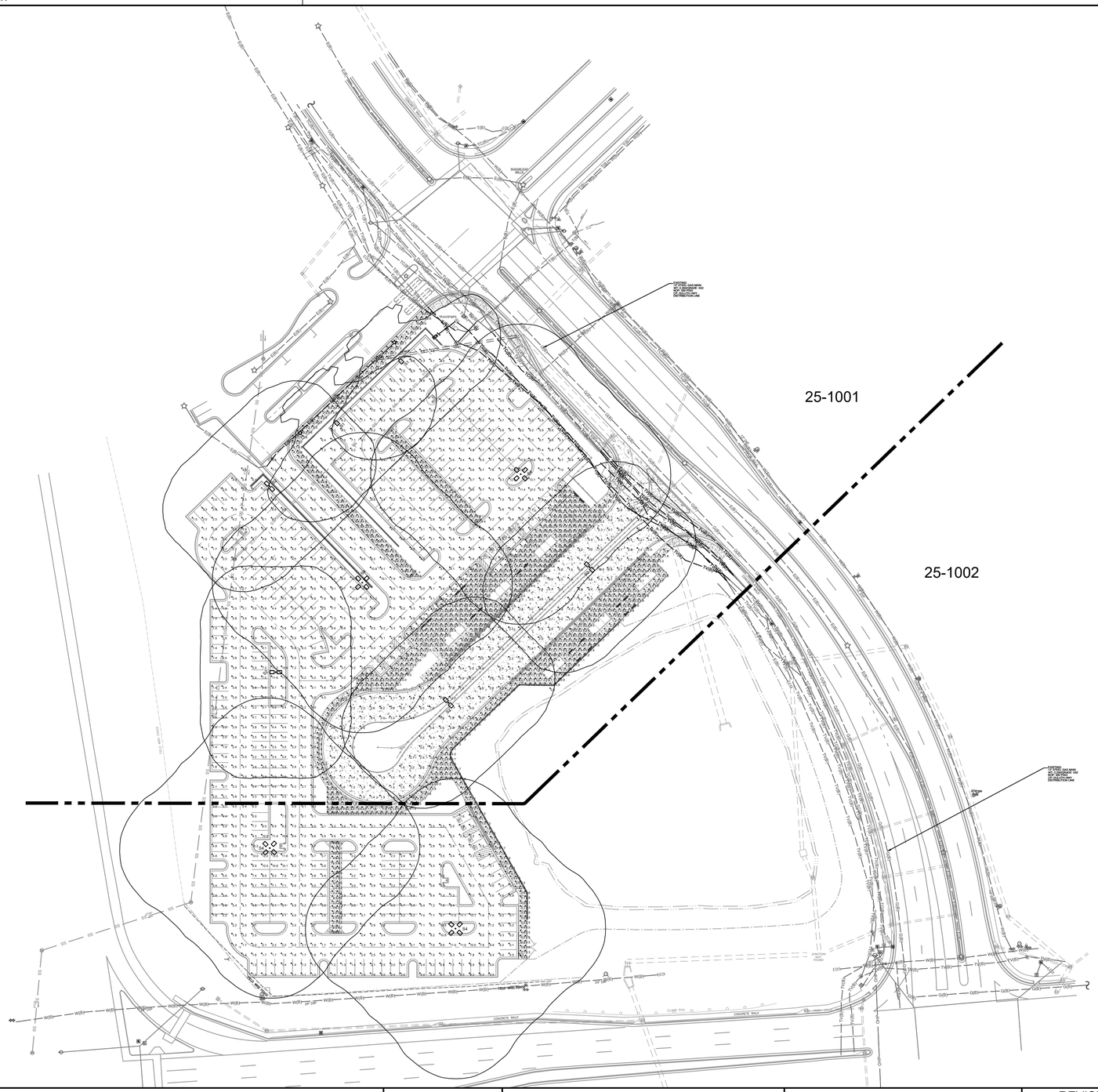
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

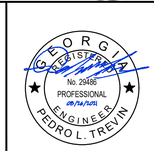
PANEL SCHEDULES AND POWER DIAGRAM

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		25-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		



CASE NUMBER : 2020-00316



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

REVISION DATES		

OVERALL LIGHTING PHOTOMETRIC PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		25-1000
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DATE$$$ Aug 27, 2021 - 10:16am TIME$$$ $PRF8$ DGN

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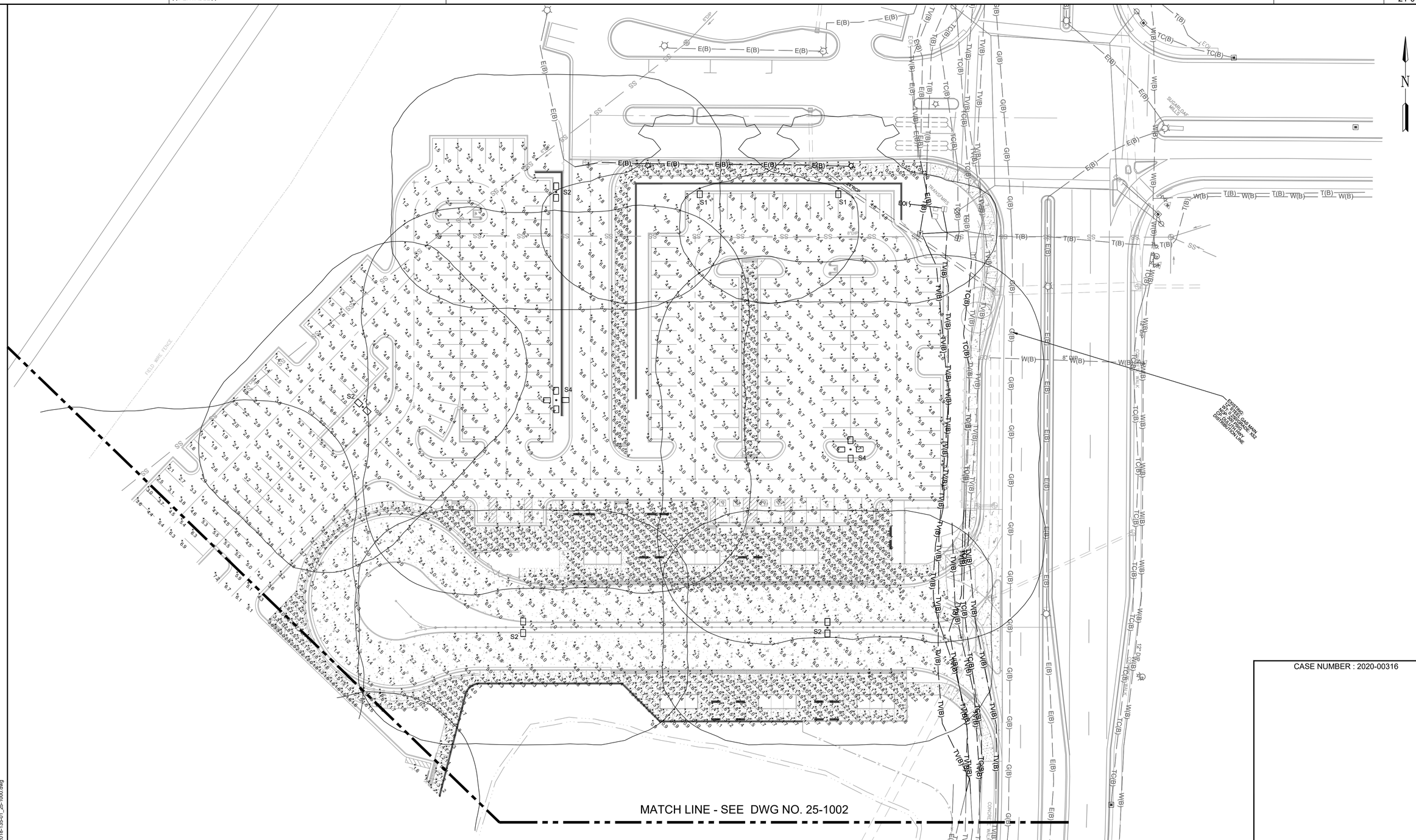
P.I. No. 21-073



CASE NUMBER : 2020-00316

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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

30 15 0 30 60

(IN FEET)
1 inch = 30 ft.

REVISION DATES

LIGHTING PHOTOMETRIC PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

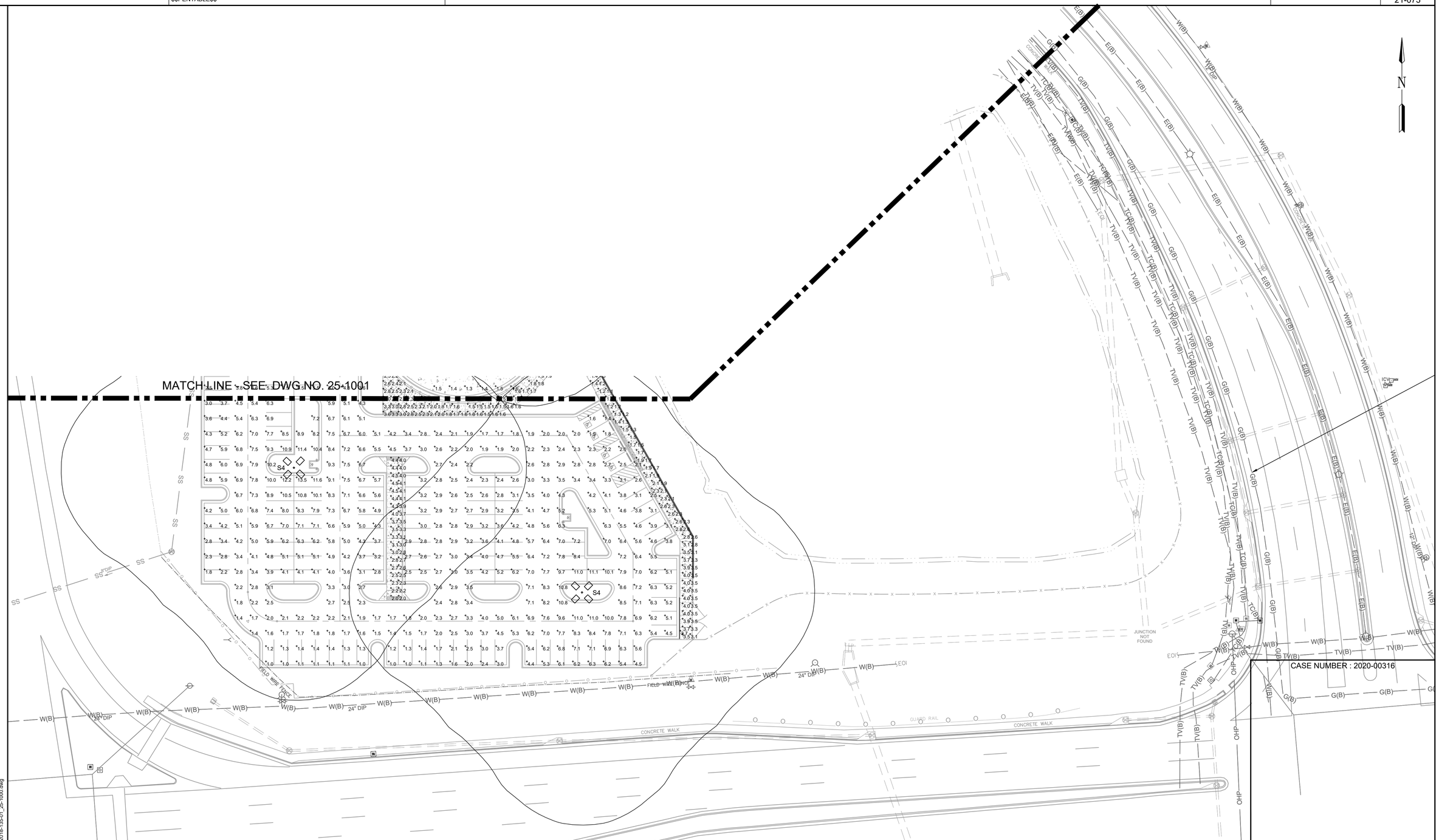
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	25-1001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

10/23/2015 GPLN

Aug 27, 2021 - 10:16am
C:\pw_work\atknaga01\rodr2009\dms27175\2018-135-01_25-1000.dwg

DATE$$$ Aug 27, 2021 - 10:16am TIME$$$ $PRF8$ DGN P.I. No. 21-073

$USER$ C:\pw_work\atknaga01\rodr2009\dms27175\2018-135-01_25-1000.dwg $$PENTABLE$$



GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

30 15 0 30 60

(IN FEET)
1 inch = 30 ft.

REVISION DATES		

LIGHTING PHOTOMETRIC PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

Aug 27, 2021 - 10:16am
C:\pw_work\atknaga01\rodr2009\dms27175\2018-135-01_25-1000.dwg

C:\Users\rodr2009\OneDrive Corp\OneDrive - Atkins Ltd\Documents\Sugarloaf

PHOTOMETRIC LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Number Lamps	Lumens per Lamp	LLF	Wattage
	S1	2	LITHONIA DSX2 LED P8 40K T3M MVOLT DNAXD POLE MOUNTED 30' AFG	SINGLE DSX2 LED P8 40K T3M MVOLT DNAXD ON TAPERED ALUMINUM POLE MOUNTED 30" AFG	WHT LED ARRAY, 40K	DSX2_LED_P8_40K_T3M_MVOLT.ies	1	47777	0.85	431
	S2	4	LITHONIA DSX2 LED P8 40K T3M MVOLT DNAXD POLE MOUNTED 30' AFG	TWIN (180D) DSX2 LED P8 40K T3M MVOLT DNAXD ON TAPERED ALUMINUM POLE MOUNTED 30" AFG	WHT LED ARRAY, 40K	DSX2_LED_P8_40K_T3M_MVOLT.ies	1	47777	0.85	862
	S4	4	LITHONIA DSX2 LED P8 40K T5W MVOLT DNAXD POLE MOUNTED 30' AFG	QUAD DSX2 LED P8 40K T5W MVOLT DNAXD ON TAPERED ALUMINUM POLE MOUNTED 30" AFG	WHT LED ARRAY, 40K	DSX2_LED_P8_40K_T5W_MVOLT.ies	1	50729	0.85	1724

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DEAD END STREET (Z=0')	+	3.8 fc	11.2 fc	1.2 fc	9.3:1	3.2:1
PARKING AREA (Z=0')	+	4.8 fc	14.4 fc	1.0 fc	14.4:1	4.8:1
PATHWAYS (Z=0')	+	3.5 fc	7.4 fc	0.4 fc	18.5:1	8.8:1

NOTE:

SEE LIGHTING FIXTURE SCHEDULE ON SHEET 25-0006

LUMINAIRE LOCATIONS

No.	Label	Location X	Location Y	Location Z	MH	Orientation	Tilt	Aim X	Aim Y	Aim Z
1	S1	411.12	805.76	30.0	30.0	135.93	0.0	411.99	804.86	0.00
2	S1	346.24	743.28	30.0	30.0	135.93	0.0	347.11	742.38	0.00
1	S2	287.05	489.12	30.0	30.0	270.00	0.0			
2	S2	461.44	458.26	30.0	30.0	316.22	0.0			
3	S2	604.05	595.23	30.0	30.0	316.22	0.0			
4	S2	280.67	676.87	30.0	30.0	316.46	0.0			
1	S4	280.95	311.41	30.0	30.0	313.62	0.0			
2	S4	468.68	230.11	30.0	30.0	134.68	0.0			
3	S4	374.51	579.51	30.0	30.0	45.51	0.0			
4	S4	534.52	689.10	30.0	30.0	45.51	0.0			

NOTES

1. CALCULATIONS HAVE BEEN PERFORMED ACCORDING TO IES STANDARDS AND PRACTICE. SOME DIFFERENCES BETWEEN MEASURED VALUES AND CALCULATED RESULTS MAY OCCUR DUE TO TOLERANCES IN CALCULATION METHODS, TESTING PROCEDURES, COMPONENT PERFORMANCES, MEASURED CONDITIONS SUCH AS TECHNICAL AND FIELD VOLTAGES AND TEMPERATURE VARIATIONS. INPUT DATA SUCH AS ROOM DIMENSIONS, REFLECTANCES, FURNITURE, LIGHT LOSS FACTOR, FURNITURE, ARCHITECTURAL ELEMENTS AND FOLIAGE SIGNIFICANTLY AFFECT THE LIGHTING CALCULATIONS. IF THE REAL ENVIRONMENT DO NOT MATCH INPUT DATA DIFFERENCES WILL OCCUR BETWEEN MEASURED AND CALCULATED VALUES.

2. POLES TO BE TAPERED ALUMMINUM 30' AFG SEE DETAIL ON SHEET 25-0005

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIÑO

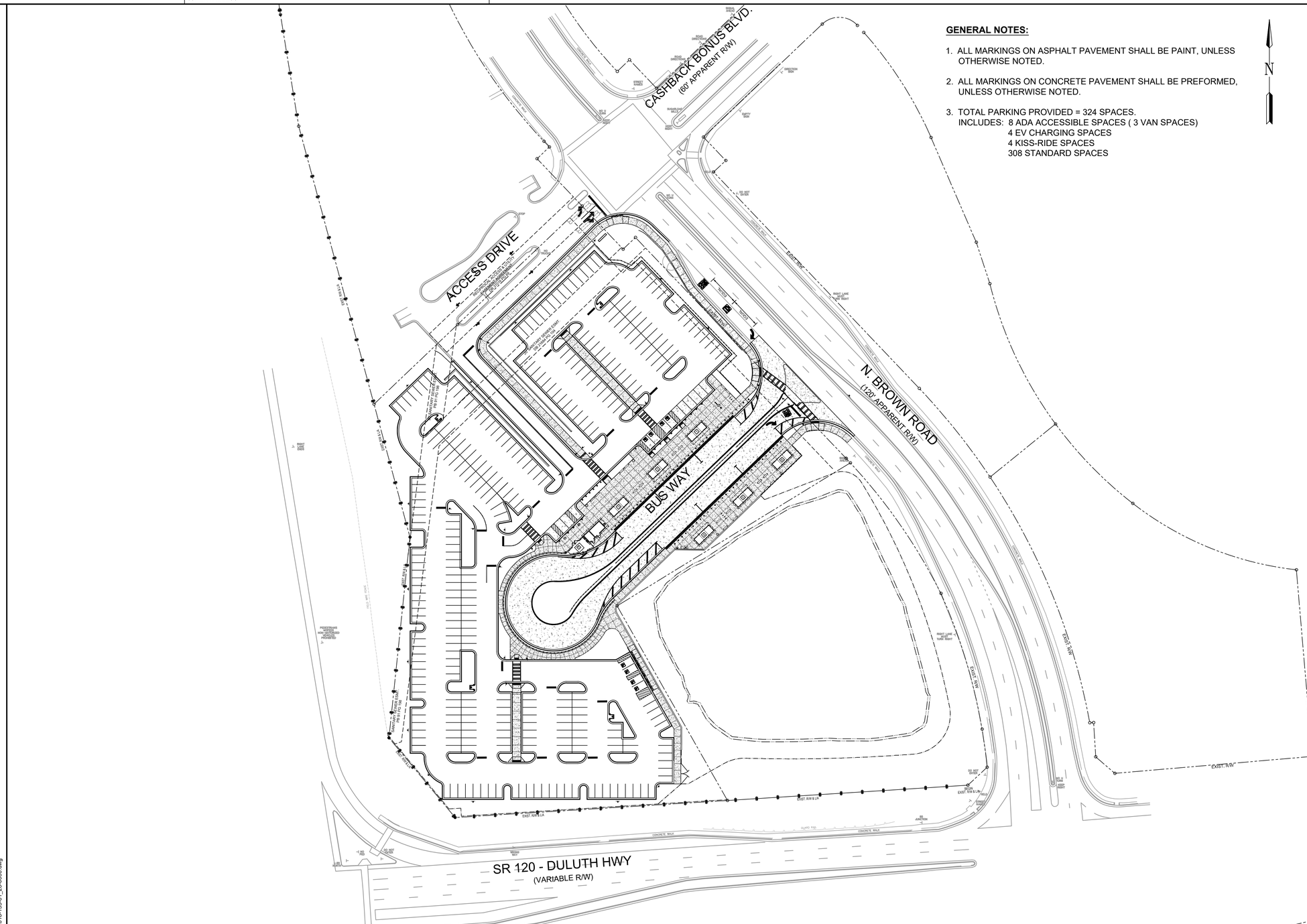
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

LIGHTING PHOTOMETRIC SCHEDULE, STATS, LOCATION AND NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		25-1003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



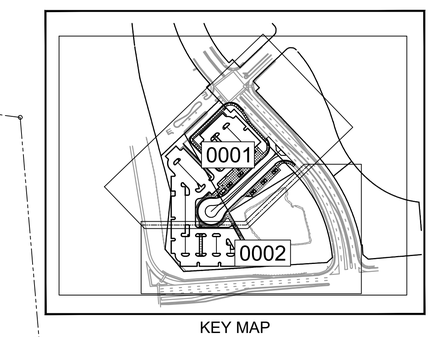
GENERAL NOTES:

1. ALL MARKINGS ON ASPHALT PAVEMENT SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED, UNLESS OTHERWISE NOTED.
3. TOTAL PARKING PROVIDED = 324 SPACES.
   INCLUDES: 8 ADA ACCESSIBLE SPACES (3 VAN SPACES)
   4 EV CHARGING SPACES
   4 KISS-RIDE SPACES
   308 STANDARD SPACES

SIGN LEGEND

SIGN CODE	SIGN DESCRIPTION	SIZE
R1-1	STOP SIGN	30"X30"
R2-1	SPEED LIMIT SIGN	24"X30"
R4-7	KEEP RIGHT SIGN	24"X30"
R5-1	DO NOT ENTER SIGN	30"X30"
R6-2	ONE WAY SIGN	24"X30"
R7-8	HANDICAP SIGN	12"X18"
R7-8a	VAN ACCESSIBLE	6"X12"
SPECIAL DESIGN	BUSES ONLY SIGN	12"X18"
SPECIAL DESIGN	KISS AND RIDE SIGN	12"X12"
SPECIAL DESIGN	PARK AND RIDE RULES SIGN (INCLUDES SIGN PANEL, FRAME & MOUNTING HARDWARE)	12"X18"
SPECIAL DESIGN	NO TRESPASSING SIGN (MOUNTED ON LIGHT POLE)	12"X18"
D9-11b (Alternate) (BY OTHERS)	ELECTRIC VEHICLE CHARGING STATION SIGN (BY OTHERS)	12"X12"
SPECIAL DESIGN	NO COMMERCIAL TRUCKS OR RV'S ALLOWED IN PARKING LOT	18"X24"

NOTE:
ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION AND SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED. ALL SIGN PANELS TO BE MOUNTED ON THE DECORATIVE POSTS AS SHOWN ON THIS SHEET. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SPECIAL DESIGN SIGN PANELS FOR APPROVAL BY OWNER PRIOR TO ORDERING OR INSTALLATION.



KEY MAP

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

STATE OF GEORGIA
No. 21371
PROFESSIONAL
9/30/2021
ENGINEER
GEORGE N. KAKUNDIS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
08/26/2021		
09/30/2021		

OVERALL SIGNING AND MARKING PLAN

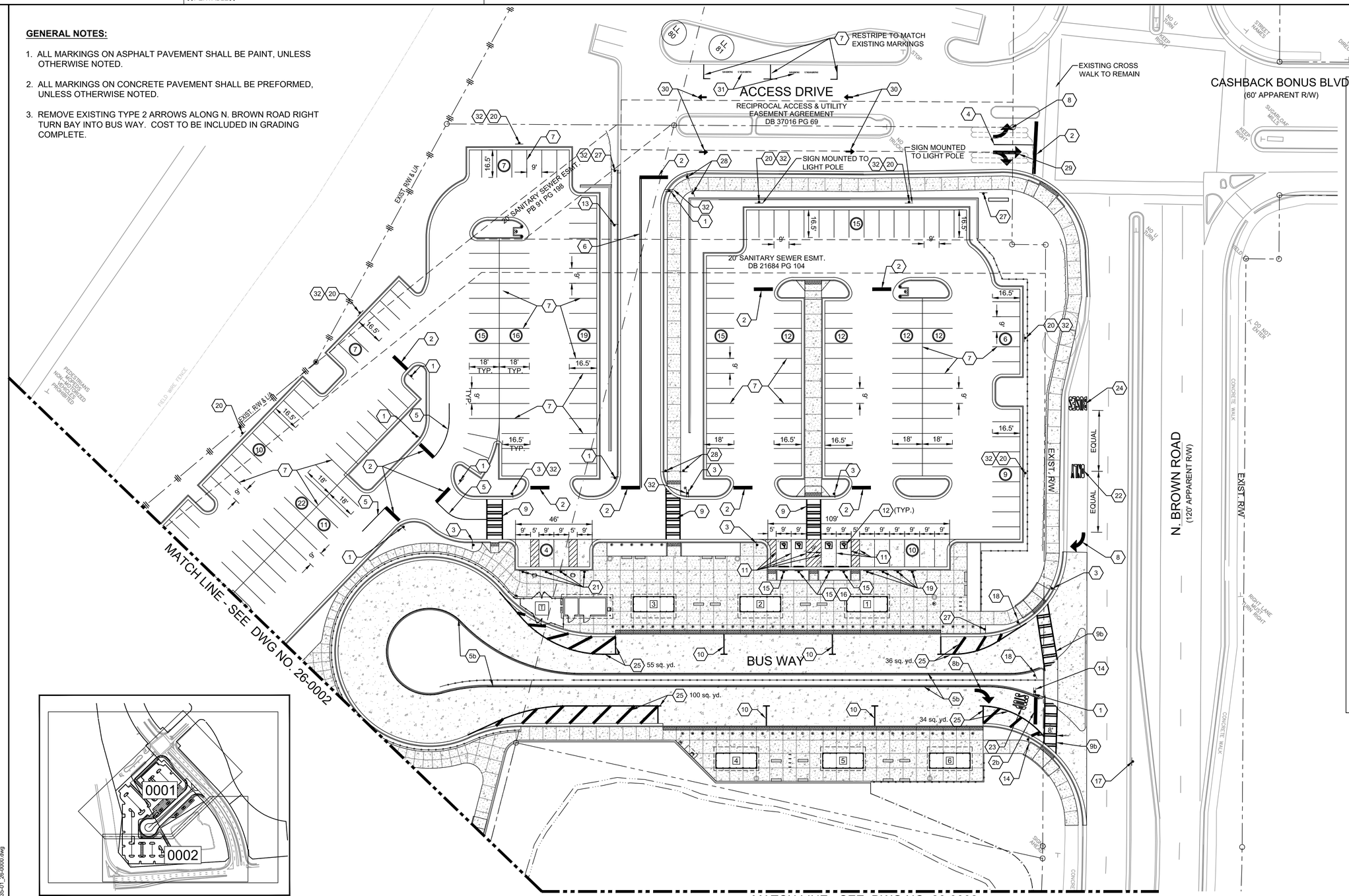
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No.
26-0000

GENERAL NOTES:

1. ALL MARKINGS ON ASPHALT PAVEMENT SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED, UNLESS OTHERWISE NOTED.
3. REMOVE EXISTING TYPE 2 ARROWS ALONG N. BROWN ROAD RIGHT TURN BAY INTO BUS WAY. COST TO BE INCLUDED IN GRADING COMPLETE.



SIGNING AND STRIPING PLAN KEY NOTES

1	R1-1 (30"x30") (STOP)
2	24" STOP BAR, SOLID WHITE
2b	PREFORMED PLASTIC SOLID PVMT MKG, 24 IN WHITE TP PB
3	R560-5 PEDESTRIAN CROSSING SIGN
4	5" SOLID WHITE LANE LINE
5	5" SOLID YELLOW LANE LINE
5b	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB
6	5" SOLID DOUBLE YELLOW LANE LINE
7	5" SOLID WHITE PARKING STRIPE
8	DIRECTIONAL ARROW, TP 2 ARROW, WHITE (THERMOPLASTIC)
8b	PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, ARROW TP 2, WHITE, TP PB
9	8" CROSSWALK STRIPING
9b	PREFORMED PLASTIC SOLID PVMT MKG, 11 IN, CONTRAST (BLACK-WHITE), TP PB
10	PREFORMED PLASTIC SOLID PVMT MKG, 10 IN, WHITE, TP PB
11	5" SOLID BLUE STRIPE, ADA PARKING STALL
12	ADA HANDICAP PARKING SYMBOL, BLUE
13	W7-1 (30"x30") WITH W13-1 (18"x18") (15 MPH)
14	R5-1 (30"x30") (DO NOT ENTER)
15	R7-8 (12"x18") (RES PARKING HANDI.)
16	R7-8A (12"x6") (VAN ACCESSIBLE)
17	R6-2R (24"x30"") (ONE WAY)
18	SIGN SPECIAL "BUSES ONLY" (12"x18")
19	SIGN SPECIAL "KISS RIDE" (12"x12")
20	SIGN SPECIAL "PARK & RIDE RULES" (12"x18")
21	D9-11b (12"x12") ELECTRICAL VEHICLE CHARGING (ALTERNATE SYMBOL) (BY OTHER)
22	WORD, TP 1 (THERMOPLASTIC)
23	PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, CONTRAST (BLACK-WHITE), TP PB - WORD, TP 2, 'STOP'
24	WORD, TP 6 (THERMOPLASTIC)
25	PREFORMED PLASTIC PVMT MKG, WHITE, TP PB - DETAIL C (GDOT DTL. T-14)
26	8" SOLID YELLOW STRIPE
27	SPECIAL SIGN "NO TRESPASSING" (12"x18")
28	SPECIAL SIGN "STEEP HILL NO WHEEL CHAIR ALLOWED" (12"x18")
29	DIRECTIONAL ARROW, TP 3 ARROW, WHITE (THERMOPLASTIC)
30	DIRECTIONAL ARROW, SEE DETAIL 5 / 38-0002
31	SPECIAL WORD "LOADING UNLOADING" - 12" HIGH WHITE STENCIL LETTERING
32	SPECIAL SIGN "NO COMMERCIAL VEHICLE OR RV'S ALLOWED IN PARKING LOT (18"x24")
(6)	NUMBER OF PARKING SPACES

CASE NUMBER : 2020-00316

KEY MAP

MATCH LINE - SEE DWG NO. 26-0002

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

REGISTERED No. 21371 PROFESSIONAL ENGINEER GEORGE N. KAKLIKES 9/30/2021

ATKINS
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

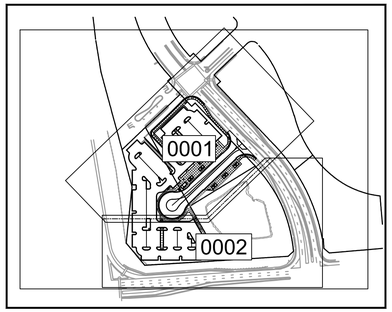
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		
09/30/2021		

SIGNING AND MARKING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



KEY MAP

SIGNING AND STRIPING PLAN KEY NOTES

1. R1-1 (30"x30") (STOP)
2. 24" STOP BAR, SOLID WHITE
2b. PREFORMED PLASTIC SOLID PVMT MKG, 24 IN WHITE TP PB
3. PEDESTRIAN CROSSING SIGN, R560-5
4. 5" SOLID WHITE LANE LINE
5. 5" SOLID YELLOW LANE LINE
5b. PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB
6. 5" SOLID DOUBLE YELLOW LANE LINE
7. 5" SOLID WHITE PARKING STRIPE
8. DIRECTIONAL ARROW, TP 2 ARROW, WHITE (THERMOPLASTIC)
8b. PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, ARROW TP 2, WHITE, TP PB
9. 8" CROSSWALK STRIPING
9b. PREFORMED PLASTIC SOLID PVMT MKG, 11 IN, CONTRAST (BLACK-WHITE), TP PB
10. PREFORMED PLASTIC SOLID PVMT MKG, 10 IN, WHITE, TP PB
11. 5" SOLID BLUE STRIPE, ADA PARKING STALL
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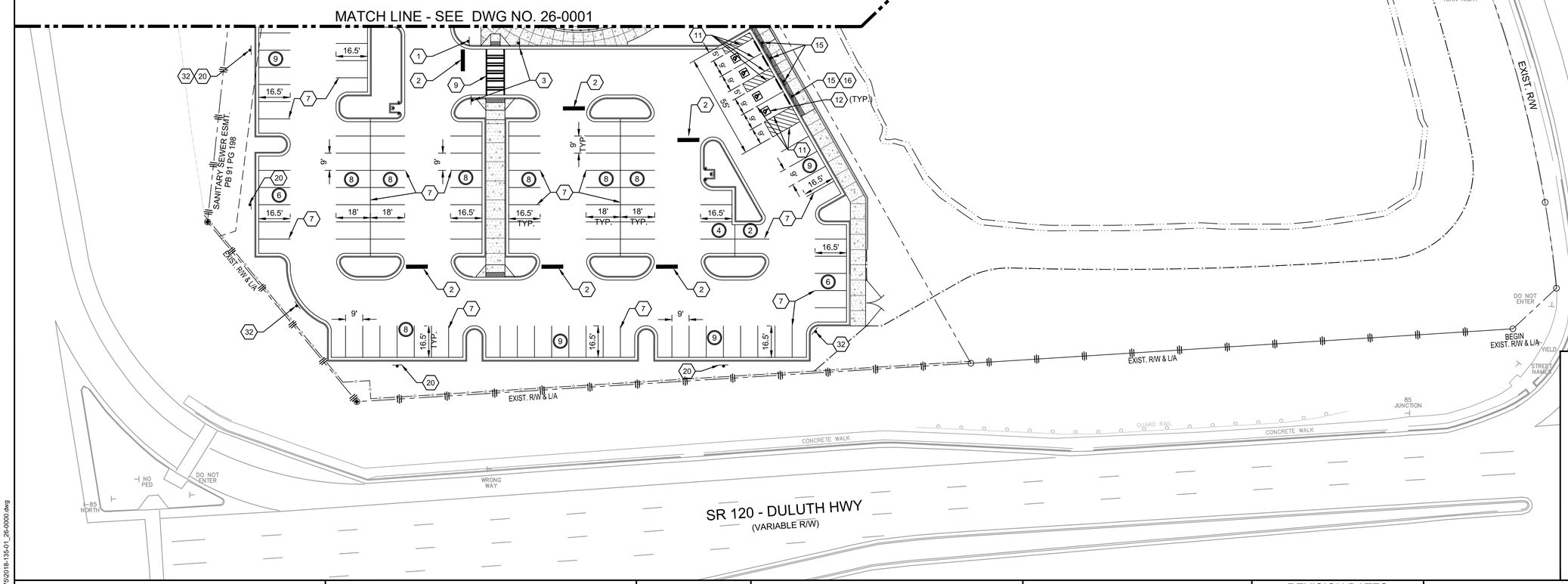
14. R5-1 (30"x30") (DO NOT ENTER)
15. R7-8 (12"x18") (RES PARKING HANDI.)
16. R7-8A (12"x6") (VAN ACCESSIBLE)
17. R6-2R (24"x30"") (ONE WAY)
18. SIGN SPECIAL "BUSES ONLY" (12"x18")
19. SIGN SPECIAL "KISS RIDE" (12"x12")
20. SIGN SPECIAL "PARK & RIDE RULES" (12"x18")
21. D9-11b (12"x12") ELECTRICAL VEHICLE CHARGING (ALTERNATE SYMBOL) (BY OTHER)
22. WORD, TP 1 (THERMOPLASTIC)
23. PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, CONTRAST (BLACK-WHITE), TP PB - WORD, TP 2, 'STOP'
24. WORD, TP 6 (THERMOPLASTIC)
25. PREFORMED PLASTIC PVMT MKG, WHITE, TP PB - DETAIL C (GDOT DTL. T-14)
26. 8" SOLID YELLOW STRIPE
27. SPECIAL SIGN "NO TRESPASSING" (12"x18")
28. SPECIAL SIGN "STEEP HILL NO WHEEL CHAIR ALLOWED" (12"x18")
29. DIRECTIONAL ARROW, TP 3 ARROW, WHITE (THERMOPLASTIC)
30. DIRECTIONAL ARROW, SEE DETAIL 5 / 38-0002
31. SPECIAL WORD "LOADING UNLOADING" - 12" HIGH WHITE STENCIL LETTERING
32. SPECIAL SIGN "NO COMMERCIAL VEHICLE OR RV'S ALLOWED IN PARKING LOT (18"x24")
(6) NUMBER OF PARKING SPACES

GENERAL NOTES:

1. ALL MARKINGS ON ASPHALT PAVEMENT SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED, UNLESS OTHERWISE NOTED.



CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 9/30/2021 GEORGE N. KAKUNGES

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30 15 0 30 60
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REVISION DATES		
11/20/2020		
08/26/2021		
09/30/2021		

SIGNING AND MARKING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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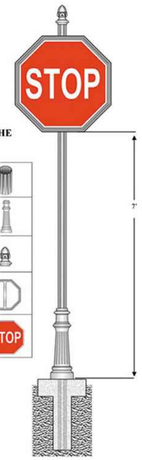
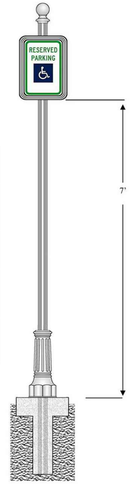
VERIFIED:		DATE:		



THIS SIGN MADE FROM THE PARTS BELOW:

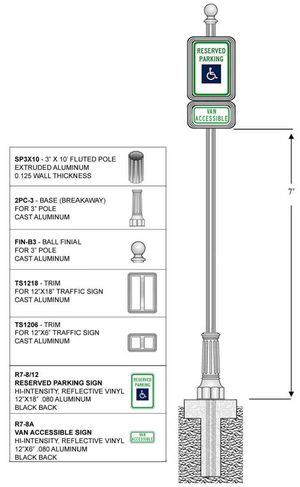
SP3X12 - 3" X 12' Fluted pole Extruded Aluminum .0125 Wall Thickness	
SB-J3 - Slipover Base For 3" Pole Cast Aluminum	
FIN-A3 - Acorn Finial For 3" Pole Cast Aluminum	
TSTOP30 - Trim For 30" Stop Sign Cast Aluminum	
R1-1/30 Reflective 30" Stop Sign Specify Vinyl Type	STOP

R1-1 DETAIL



SP3X10 - 3" X 10' FLUTED POLE EXTRUDED ALUMINUM 0.125 WALL THICKNESS	
2PC-3 - BASE (BREAKAWAY) FOR 3" POLE CAST ALUMINUM	
FIN-B3 - BALL FINIAL FOR 3" POLE CAST ALUMINUM	
TS1218 - TRIM FOR 12"X18" TRAFFIC SIGN CAST ALUMINUM	
R7-8/12 RESERVED PARKING SIGN HI-INTENSITY, REFLECTIVE VINYL, 12"X18" .080 ALUMINUM BLACK BACK	RESERVED PARKING

R7-8 DETAIL



SP3X10 - 3" X 10' FLUTED POLE EXTRUDED ALUMINUM 0.125 WALL THICKNESS	
2PC-3 - BASE (BREAKAWAY) FOR 3" POLE CAST ALUMINUM	
FIN-B3 - BALL FINIAL FOR 3" POLE CAST ALUMINUM	
TS1218 - TRIM FOR 12"X18" TRAFFIC SIGN CAST ALUMINUM	
TS1206 - TRIM FOR 12"X6" TRAFFIC SIGN CAST ALUMINUM	
R7-8/12 RESERVED PARKING SIGN HI-INTENSITY, REFLECTIVE VINYL, 12"X18" .080 ALUMINUM BLACK BACK	RESERVED PARKING
R7-8A VAN ACCESSIBLE SIGN HI-INTENSITY, REFLECTIVE VINYL, 12"X6" .080 ALUMINUM BLACK BACK	VAN ACCESSIBLE

R7-8A DETAIL

MANUFACTURER: BRANDON INDUSTRIES, INC.
MODEL NO: POSTS, FOUNDATIONS, FRAMES, SIGN SHEETING, FINIAL
ADDRESS: 1601 WEST WILMETH ROAD
MCKINNEY, TX 75069
PHONE: 1.800.247.1274
WEBSITE: HTTP://WWW.BRANDONINDUSTRIES.COM
DESCRIPTION:
SIGN AND ALL POST COMPONENTS, BLACK FINISH, BREAKAWAY POST IN PUBLIC RIGHT-OF-WAYS, SIGNS TO MEET MUTCD STANDARDS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

OR

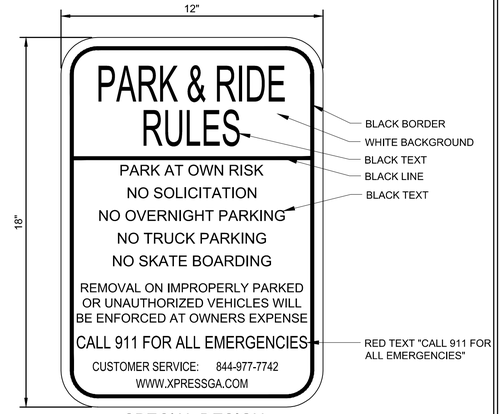
MANUFACTURER: SPECIAL LITE PRODUCTS COMPANY, INC.
MODEL NO: SAME AS SPECIFIED ABOVE
PHONE: 800.365.0511
WEBSITE: HTTP://SPECIALLITEPRODUCTS.COM

OR

MANUFACTURER: CAPITAL STREETSCAPES
MODEL NO: SAME AS SPECIFIED ABOVE
PHONE: 855.339.7800
WEBSITE: HTTP://WWW.CAPITALSTREETSCAPES.COM

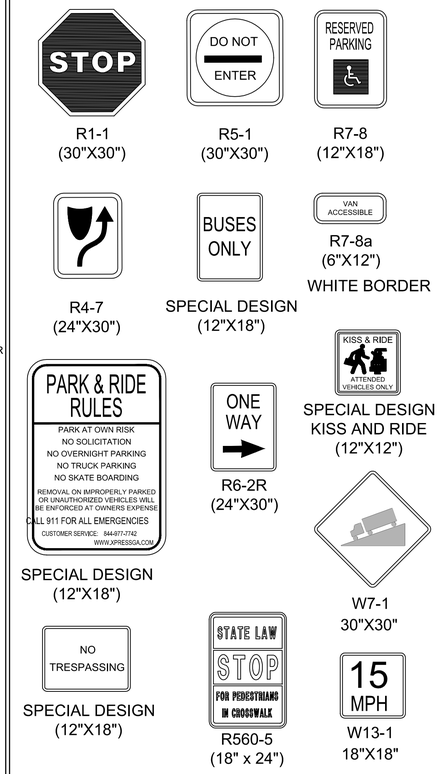
OR APPROVED EQUAL

NOTES:
1. ALL SIGNS WITHIN THE PARK AND RIDE FACILITY (OUTSIDE RIGHT-OF-WAY) SHALL BE PAYED FOR AS DECORATIVE POST COMPLETE (UNIT EACH). DECORATIVE POST COMPLETE INCLUDES SIGN PANEL, DECORATIVE POST / FINAL, DECORATIVE FRAME AND THE FOUNDATION.
2. SIGN PANELS NOTED OR SHOWN ON PLANS MOUNTED ON LIGHT POLES SHALL BE INSTALLED USING A HEAVY-DUTY STAINLESS STEEL METAL BAND WITH ALUMINUM SIGN MOUNTING PLATE WITH BOLTS AND NUTS OR APPROVED EQUAL

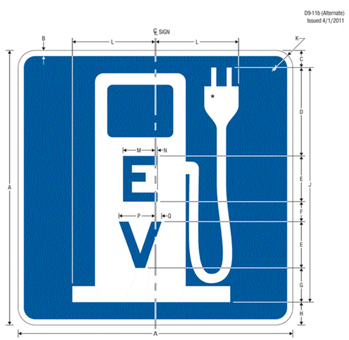


SPECIAL DESIGN
PARK & RIDE SIGN PANEL
DETAIL

SIGN FACE LEGEND



NOTE:
ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION AND SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED. ALL SIGN PANELS TO BE MOUNTED ON THE DECORATIVE POSTS AS SHOWN ON THIS SHEET. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SPECIAL DESIGN SIGN PANELS FOR APPROVAL BY OWNER PRIOR TO ORDERING OR INSTALLATION.



D9-11b (Alternate)
Electric Vehicle Charging (Alternate Symbol)

	A	B	C	D	E	F	G	H	J	K	L	M
G	24	0.5	1.5	7.75	4 (cm)	1.75	3	2	20.5	1.5	7.25	2.814
	30	0.75	1.875	9.625	5 (cm)	2	4	2.5	25.625	1.875	9.063	3.518

N	P	Q
0.148	3.174	0.507
0.185	3.968	0.635

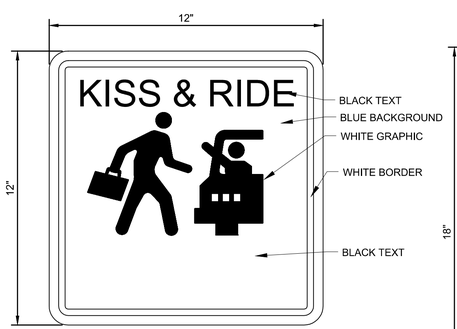
★ See page IA-13-2 for symbol design

COLORS: LEGEND, BACKGROUND — BLUE (RETROREFLECTIVE)
SYMBOL, BORDER — WHITE (RETROREFLECTIVE)

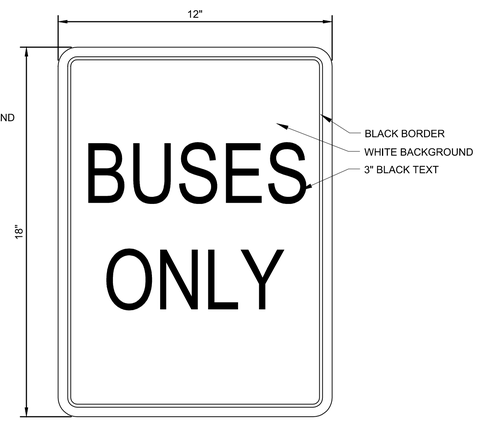
IA-13-1

ELECTRIC VEHICLE CHARGING STATION SIGN PANEL
NOTE: SIGN PANEL TO BE 12"X12" AND MOUNTED ON DECORATIVE POST AND FRAME AS SHOWN IN STOP SIGN AND HANDICAP SIGNAGE

D9-11b (Alternate) DETAIL
(BY OTHERS)

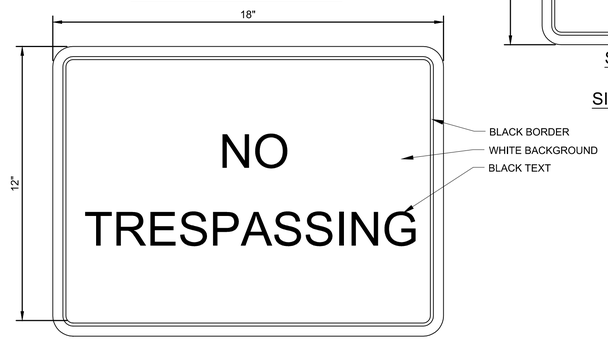


SPECIAL DESIGN KISS &
RIDE SIGN PANEL DETAIL



SPECIAL DESIGN
BUSES ONLY
SIGN PANEL DETAIL

SPECIAL DESIGN
NO COMMERCIAL VEHICLES
SIGN PANEL DETAIL



SPECIAL DESIGN
NO TRESPASSING
SIGN PANEL DETAIL

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARUNGIS

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

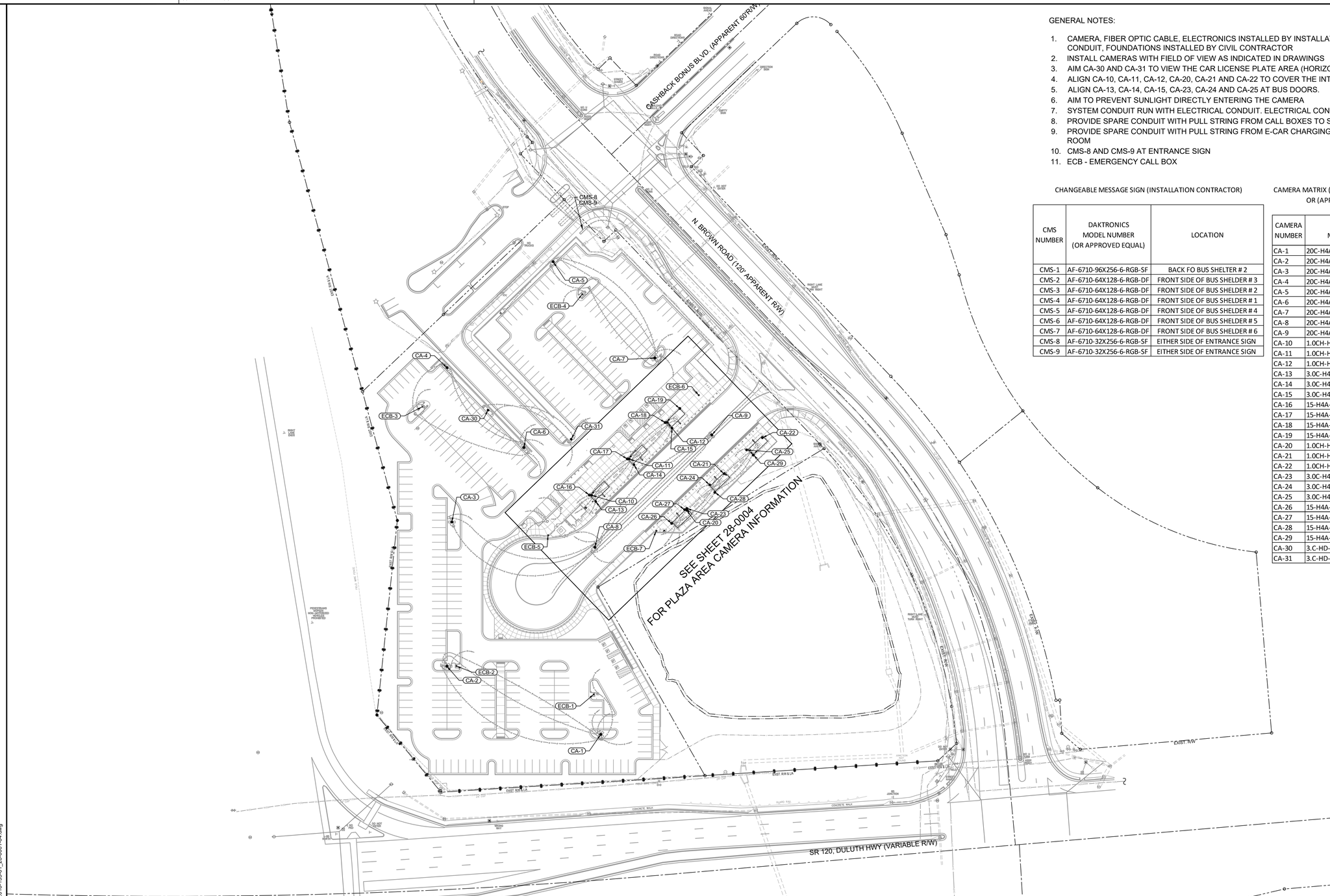
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES		
11/20/2020		
08/26/2021		
09/30/2021		

SIGNING AND MARKING DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



GENERAL NOTES:

1. CAMERA, FIBER OPTIC CABLE, ELECTRONICS INSTALLED BY INSTALLATION CONTRACTOR. POLES, CONDUIT, FOUNDATIONS INSTALLED BY CIVIL CONTRACTOR
2. INSTALL CAMERAS WITH FIELD OF VIEW AS INDICATED IN DRAWINGS
3. AIM CA-30 AND CA-31 TO VIEW THE CAR LICENSE PLATE AREA (HORIZONTAL 12')
4. ALIGN CA-10, CA-11, CA-12, CA-20, CA-21 AND CA-22 TO COVER THE INTERIOR OF BUS SHELTER
5. ALIGN CA-13, CA-14, CA-15, CA-23, CA-24 AND CA-25 AT BUS DOORS.
6. AIM TO PREVENT SUNLIGHT DIRECTLY ENTERING THE CAMERA
7. SYSTEM CONDUIT RUN WITH ELECTRICAL CONDUIT. ELECTRICAL CONDUIT SHOW FOR INFORMATION ONLY
8. PROVIDE SPARE CONDUIT WITH PULL STRING FROM CALL BOXES TO SYSTEM EQUIPMENT ROOM
9. PROVIDE SPARE CONDUIT WITH PULL STRING FROM E-CAR CHARGING STATIONS TO SYSTEM EQUIPMENT ROOM
10. CMS-8 AND CMS-9 AT ENTRANCE SIGN
11. ECB - EMERGENCY CALL BOX

N

CHANGEABLE MESSAGE SIGN (INSTALLATION CONTRACTOR)

CMS NUMBER	DAKTRONICS MODEL NUMBER (OR APPROVED EQUAL)	LOCATION
CMS-1	AF-6710-96X256-6-RGB-SF	BACK FO BUS SHELTER # 2
CMS-2	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 3
CMS-3	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 2
CMS-4	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 1
CMS-5	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 4
CMS-6	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 5
CMS-7	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 6
CMS-8	AF-6710-32X256-6-RGB-SF	EITHER SIDE OF ENTRANCE SIGN
CMS-9	AF-6710-32X256-6-RGB-SF	EITHER SIDE OF ENTRANCE SIGN

CAMERA MATRIX (INSTALLATION CONTRACTOR) OR (APPROVED EQUAL)

CAMERA NUMBER	AVIGILON MODLE NUMBER	CAMERA MOUNTING
CA-1	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-2	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-3	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-4	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-5	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-6	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-7	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-8	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-9	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-10	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-11	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-12	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-13	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-14	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-15	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-16	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-17	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-18	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-19	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-20	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-21	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-22	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-23	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-24	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-25	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-26	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-27	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-28	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-29	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-30	3.C-HD-LP-B1 W/ES-HD-LP-IR	17 FT HEIGHT ON POLE
CA-31	3.C-HD-LP-B1 W/ES-HD-LP-IR	13 FT HEIGHT ON POLE

CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

PROPOSED WATER LINE
PROPOSED ELECTRIC
PROPOSED COMMUNICATIONS
PROPOSED LIGHTING CIRCUIT — L — L — L —
PROPOSED POWER CIRCUIT — P — P — P —
PROPOSED COMMUNICATION CIRCUIT — F — F — F —
PROPOSED FIBER OPTIC CONDUIT — FO — FO —

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE
PROPOSED FIRE HYDRANT
PROPOSED WATER VALVE
PROPOSED PULL BOX — PB
PROPOSED CAMERA — CA-xx

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER GARDNER CHAMBLISS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

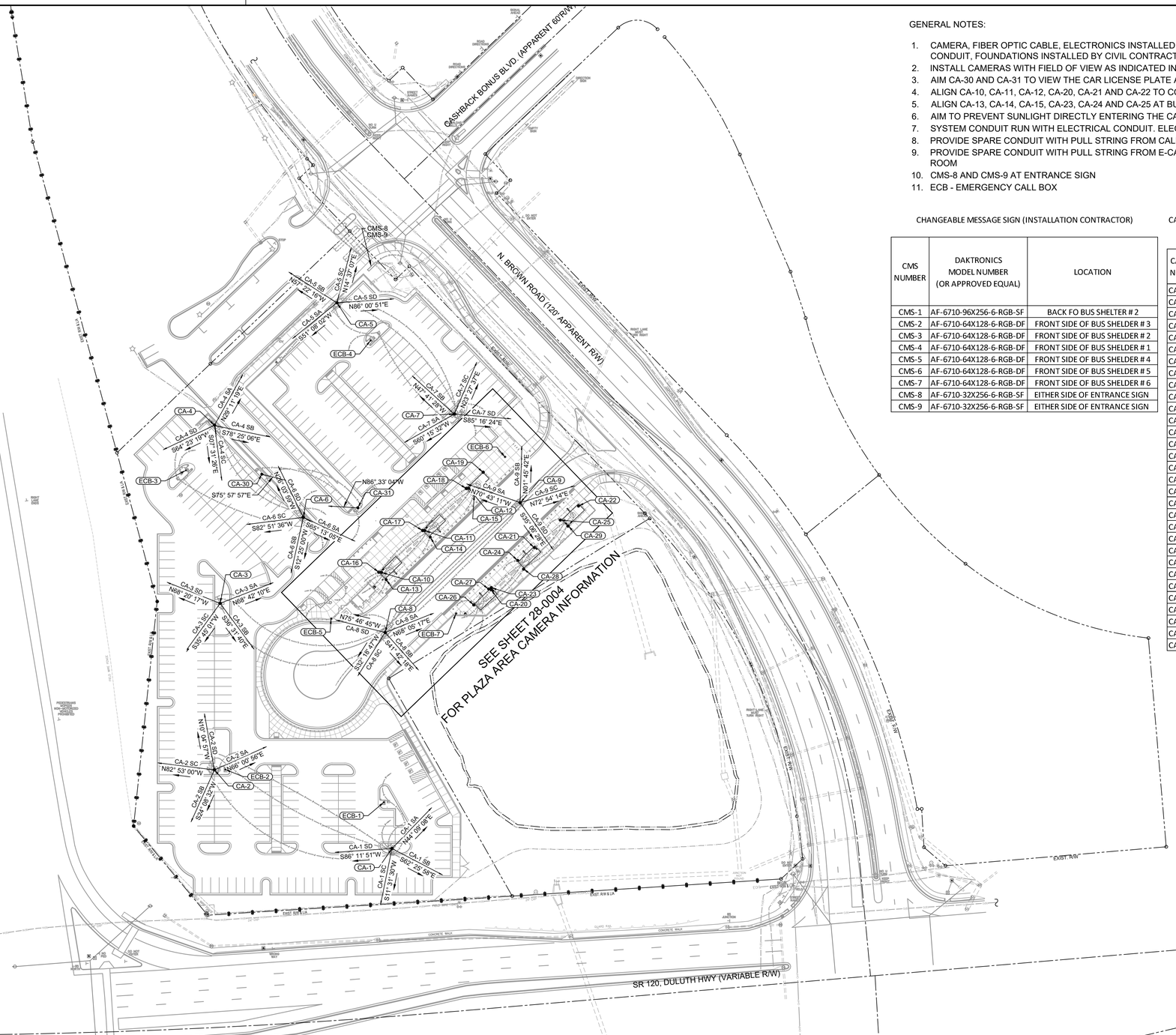
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

REVISION DATES

OVERALL CCTV CAMERA, CMS AND ECB PLACEMENT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		28-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



GENERAL NOTES:

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10. CMS-8 AND CMS-9 AT ENTRANCE SIGN
11. ECB - EMERGENCY CALL BOX

N

CHANGEABLE MESSAGE SIGN (INSTALLATION CONTRACTOR)

CMS NUMBER	DAKTRONICS MODEL NUMBER (OR APPROVED EQUAL)	LOCATION
CMS-1	AF-6710-96X256-6-RGB-SF	BACK FO BUS SHELTER # 2
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CMS-3	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 2
CMS-4	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 1
CMS-5	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 4
CMS-6	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 5
CMS-7	AF-6710-64X128-6-RGB-DF	FRONT SIDE OF BUS SHELDER # 6
CMS-8	AF-6710-32X256-6-RGB-SF	EITHER SIDE OF ENTRANCE SIGN
CMS-9	AF-6710-32X256-6-RGB-SF	EITHER SIDE OF ENTRANCE SIGN

CAMERA MATRIX (INSTALLATION CONTRACTOR)
OR (APPROVED EQUAL)

CAMERA NUMBER	AVIGILON MODLE NUMBER	CAMERA MOUNTING
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CA-3	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-4	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-5	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-6	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-7	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-8	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-9	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
CA-10	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-11	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-12	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-13	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-14	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-15	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-16	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-17	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-18	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-19	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-20	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-21	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-22	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-23	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-24	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-25	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-26	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-27	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
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CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

PROPOSED WATER LINE
PROPOSED ELECTRIC
PROPOSED COMMUNICATIONS
PROPOSED LIGHTING CIRCUIT — L — L — L —
PROPOSED POWER CIRCUIT — P — P — P —
PROPOSED COMMUNICATION CIRCUIT — F — F — F —
PROPOSED FIBER OPTIC CONDUIT — FO — FO —

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE
PROPOSED FIRE HYDRANT
PROPOSED WATER VALVE
PROPOSED PULL BOX — PB
PROPOSED CAMERA — CA-xx

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER GARDNER CHAMBLISS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

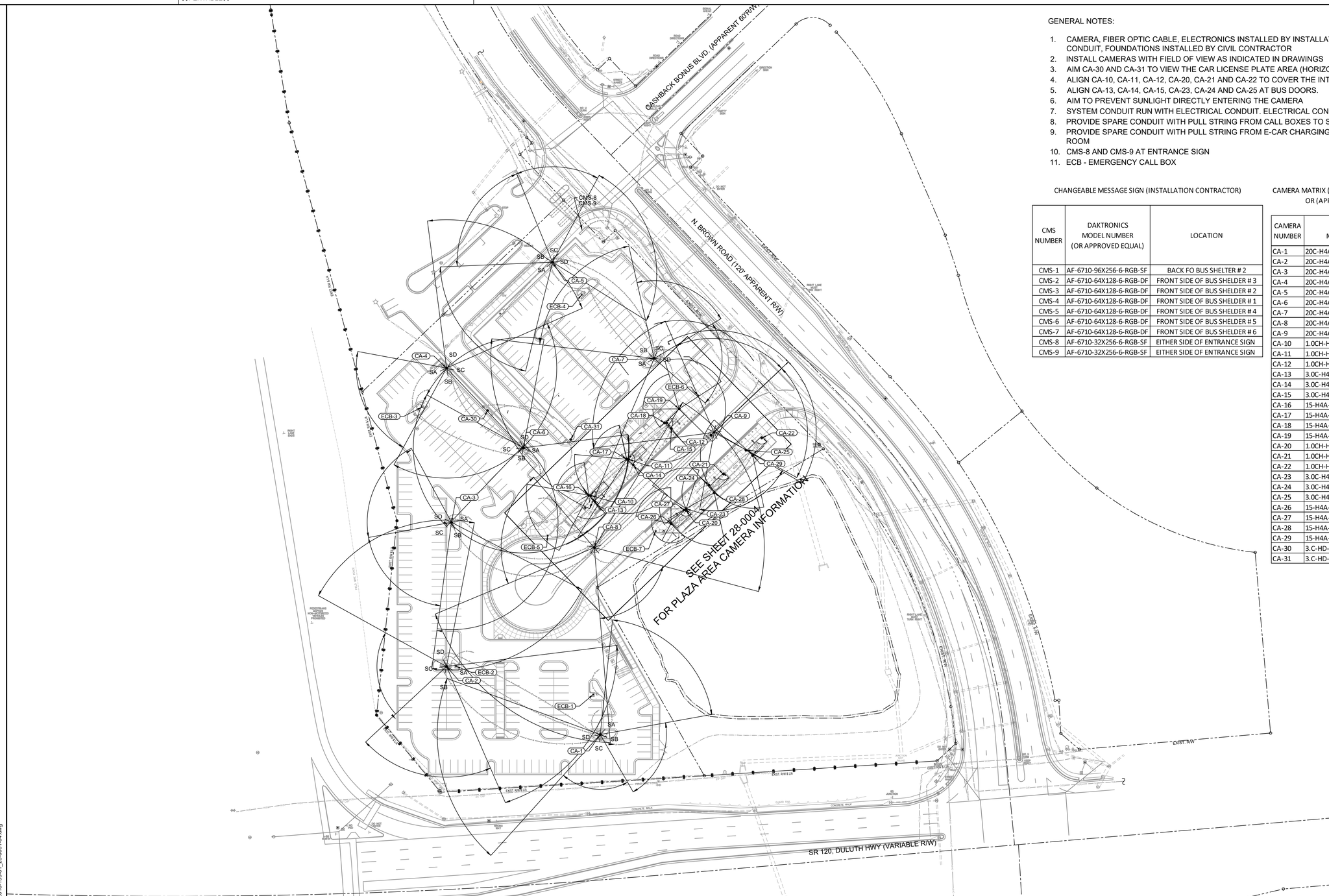
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

REVISION DATES

OVERALL CCTV CAMERA PLACEMENT AND VIEW DIRECTION

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	28-0002
CORRECTED:		DATE:	
VERIFIED:		DATE:	



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5. ALIGN CA-13, CA-14, CA-15, CA-23, CA-24 AND CA-25 AT BUS DOORS.
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11. ECB - EMERGENCY CALL BOX

CHANGEABLE MESSAGE SIGN (INSTALLATION CONTRACTOR)

CMS NUMBER	DAKTRONICS MODEL NUMBER (OR APPROVED EQUAL)	LOCATION
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CMS-9	AF-6710-32X256-6-RGB-SF	EITHER SIDE OF ENTRANCE SIGN

CAMERA MATRIX (INSTALLATION CONTRACTOR) OR (APPROVED EQUAL)

CAMERA NUMBER	AVIGILON MODLE NUMBER	CAMERA MOUNTING
CA-1	20C-H4A-4MH-360	25 FT HEIGHT ON POLE
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CA-19	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-20	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-21	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-22	1.0CH-H4A-D1-IR	INSIDE BUS SHELDER
CA-23	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-24	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-25	3.0C-H4A-DO1-11R	SIDE OF SHELDER AT BUS
CA-26	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-27	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
CA-28	15-H4A-3MH-270	SIDE OF BUS SHELDER PATH
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CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

PROPOSED WATER LINE
PROPOSED ELECTRIC
PROPOSED COMMUNICATIONS
PROPOSED LIGHTING CIRCUIT — L — L — L —
PROPOSED POWER CIRCUIT — P — P — P —
PROPOSED COMMUNICATION CIRCUIT — F — F — F —
PROPOSED FIBER OPTIC CONDUIT — FD — FD —

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE
PROPOSED FIRE HYDRANT
PROPOSED WATER VALVE
PROPOSED PULL BOX — PB
PROPOSED CAMERA — CA-xx

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Tel: (770)933-0280

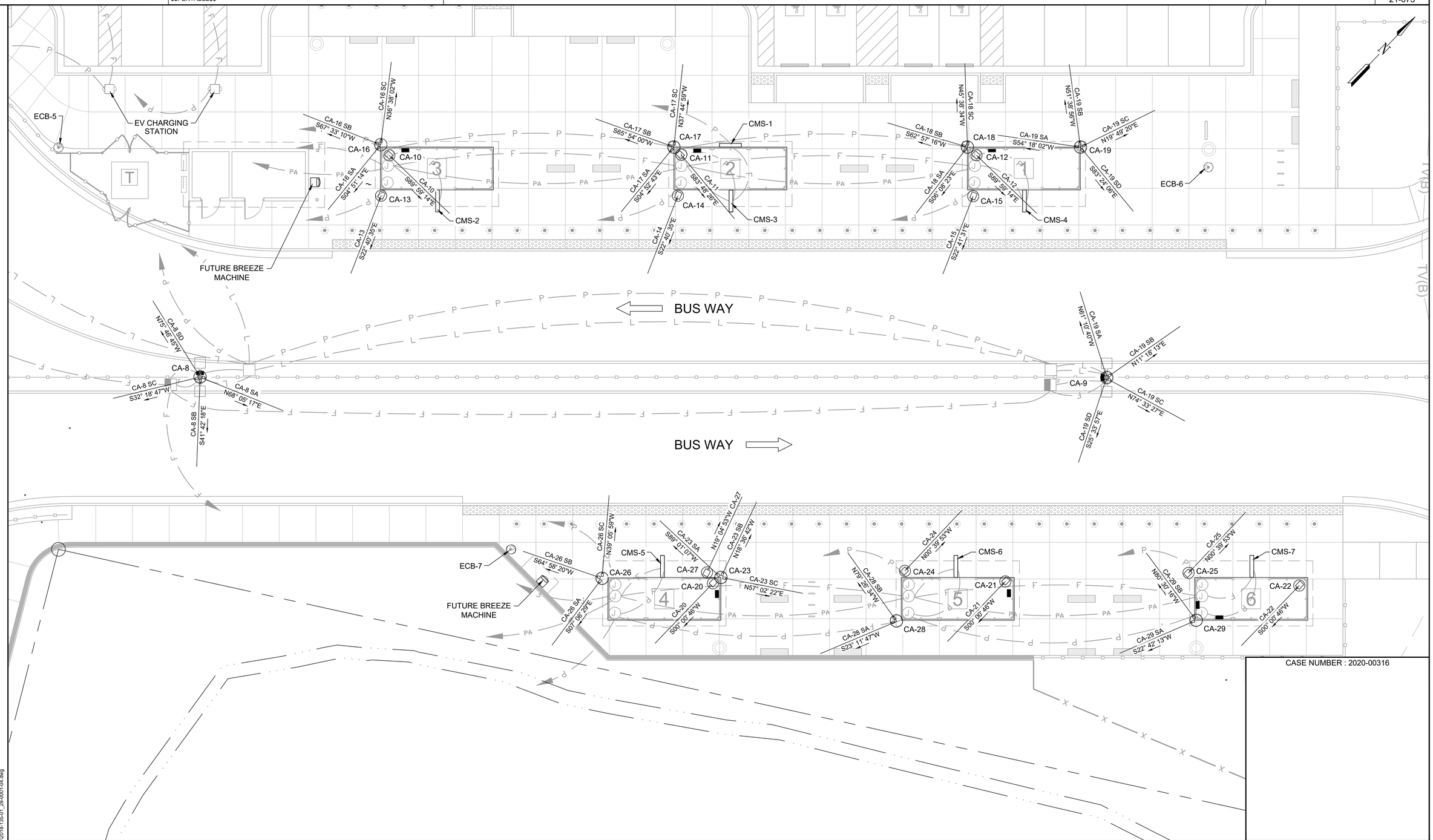
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

OVERALL
CCTV CAMERA PLACEMENT
WITH VIEW ANGLE
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	28-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	



CASE NUMBER : 2020-00316

UTILITY PLAN LEGEND

- PROPOSED WATER LINE
- PROPOSED ELECTRIC
- PROPOSED COMMUNICATIONS
- PROPOSED LIGHTING CIRCUIT — L — L — L —
- PROPOSED POWER CIRCUIT — P — P — P —
- PROPOSED COMMUNICATION CIRCUIT — F — F — F —
- PROPOSED FIBER OPTIC CONDUIT — FD — FD —

UTILITY PLAN LEGEND

- PROPOSED LIGHT POLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PULL BOX — PB
- PROPOSED CAMERA — CA-xx

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER GARDNER CHAMBLISS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

PLAZA AREA CCTV CAMERA, CMS AND ECB PLACEMENT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	28-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	

GENERAL NOTES:

1. DRAWING IS DIAGRAMMATIC SHOWING FIBER OPTIC CABLE INSTALLED BY THE INSTALLER GOING FROM NETWORK RACK IN EQUIPMENT ROOM TO CAMERA INTERFACE BOXES AT BASE OF CAMERAS. CABLE FROM CAMERA INTERFACE BOX TO CAMERA IS CAT-6 AND CARRIES VIDEO AND POWER

2.CABLE PATH IN CONDUIT IS SHOWN FOR FUTURE SYSTEM ALONG WITH THE EQUIPMENT. CONDUIT IS INSTALLED IN THIS PROJECT BY CIVIL CONTRACTOR. PULL STRING TO BE PLACED IN CONDUIT.

3.FOR CABLE AND CONDUIT ROUTING AND POLE PLACEMENT, SEE ELECTRICAL DRAWINGS 25-0001 THROUGH 25-0005.

CABLE LEGEND:

(A) 6 STRAND OM2 OUTDOOR FIBER OPTICS CABLE

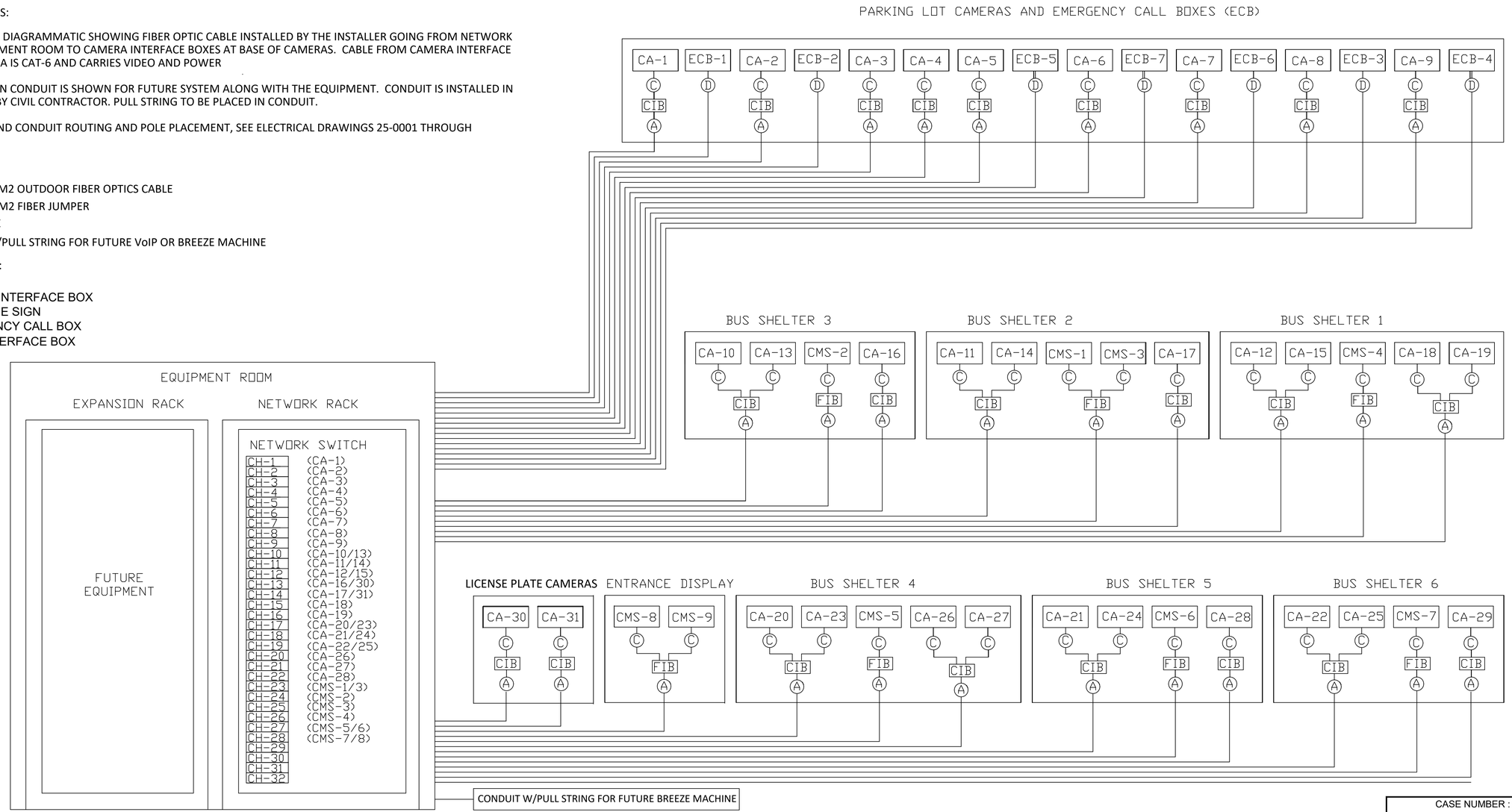
(B) 2 STRAND OM2 FIBER JUMPER

(C) CAT-6 CABLE

(D) CONDUIT W/PULL STRING FOR FUTURE VoIP OR BREEZE MACHINE

DEVICE LEGEND:

CA CAMERA
CIB CAMERA INTERFACE BOX
CMS MESSAGE SIGN
ECB EMERGENCY CALL BOX
FIB FIBER INTERFACE BOX



CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER GARDNER CHAMBLISS 08/26/2021

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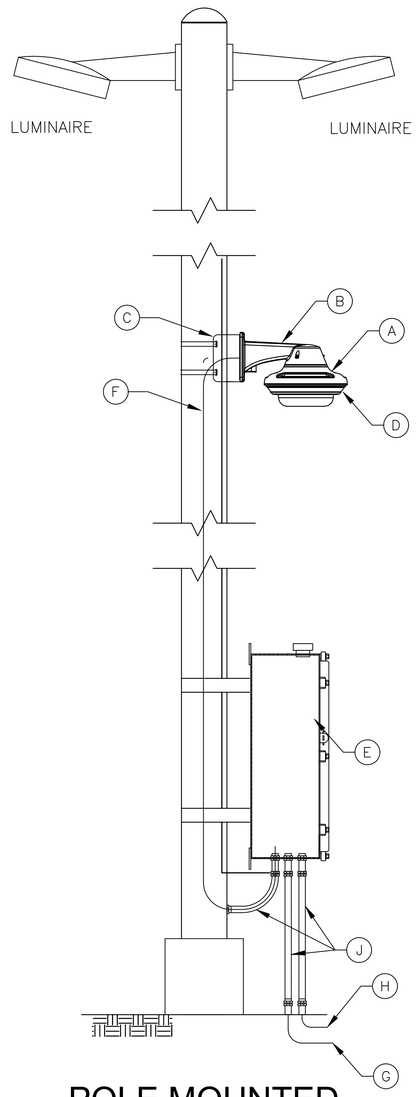
08/26/2021		

CCTV
SYSTEM CABLE PLAN

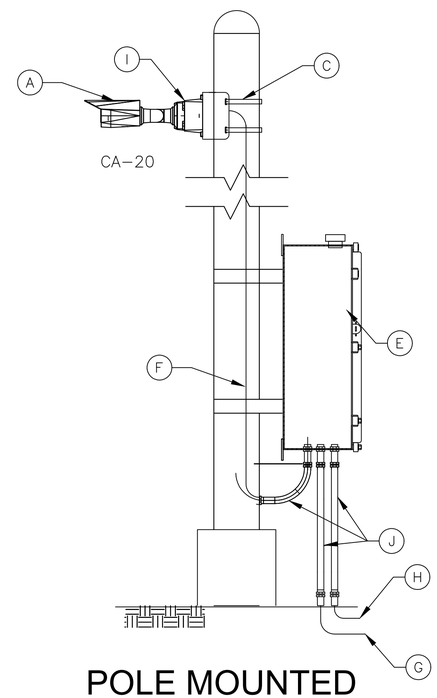
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		28-0005
VERIFIED:		DATE:		



POLE MOUNTED CAMERAS CA-1 THROUGH CA-9

N.T.S.



POLE MOUNTED CAMERA CA-30 AND CA-31

N.T.S.

NOTES:

(A) SEE CAMERA MATRIX ON 28-0003 FOR LOCATION AND MOUNTING HEIGHT.
(B) MOUNT AVIGILON H4-AMH-AD-1 PEND1
(C) POLE MOUNT AVIGILON M4-MT-POLE1
(D) IR IRPTZ-MNT-WALL AVIGILON H4AMH-AP-IRIC
(E) CAMERA INTERFACE BOX (CIB)
(F) CAT-6 CABLE
(G) 120VAC TO CIRCUIT BREAKER IN 120V ELECTRICAL PANEL
(H) 6 STRAND FIBER TO NETWORK CABINET
(J) FLEX WATERTIGHT CONDUIT
(I) CAMERA JUNCTION BOX AVIGILON H4-BO-JOX1

NOTES:

1. CAMERA EQUIPMENT, CABINETS, CABLES AND MOUNTING HARDWARE, BY INSTALLATION CONTRACTOR (NOT IN CIVIL CONTRACT).

2. INSTALLATION CONTRACTOR TO PROVIDE AND INSTALL EQUIPMENT AS SHOWN, OR SRTA APPROVED EQUAL.

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CCTV
POLE MOUNTED CAMERAS
DETAIL

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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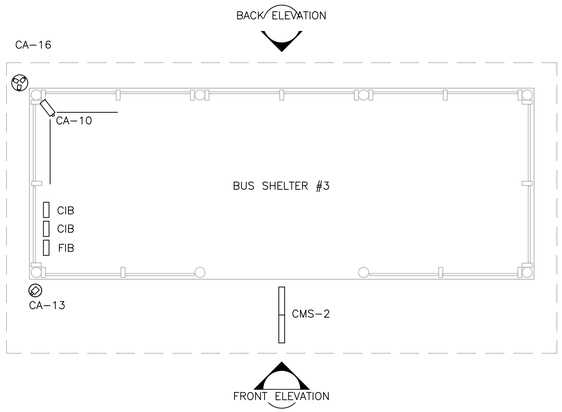
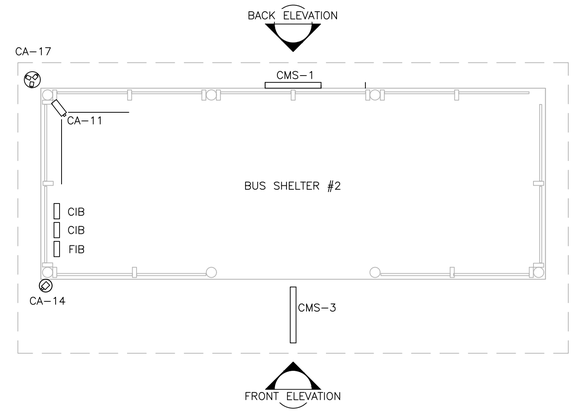
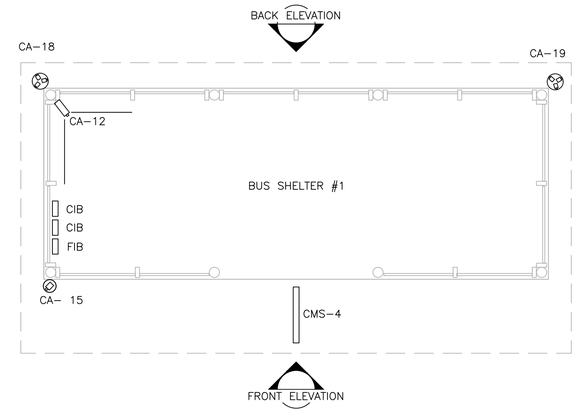
VERIFIED:		DATE:		



BUS SHELTER #3 FLOOR PLAN
N.T.S.



BUS SHELTER #2 FLOOR PLAN
N.T.S.



BUS SHELTER #1 FLOOR PLAN
N.T.S.

GENERAL NOTES:

1. FIELD LOCATE CIB, FIB, CONDUIT AND CABLE AS REQUIRED.

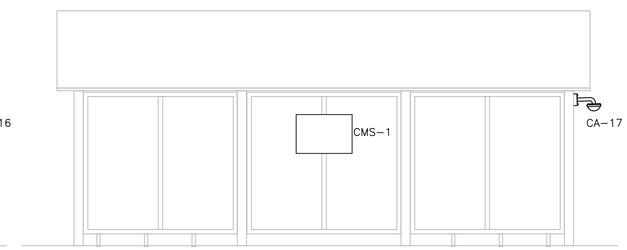
2. MOUNT CAMERAS CA-10, CA-11 AND CA-12 IN CEILING TO COVER INTERIOR OF BUS SHELTER

3, MOUNT CAMERAS CA-13, CA-14 AND 15 TO COVER BUS DOOR

4. MOUNT CAMERAS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

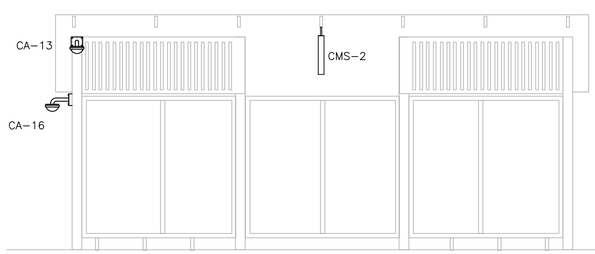
5. MOUNT CMS DISPLAYS AS SHOWN IN ARCHITECTURAL DRAWINGS.

BUS SHELTER #3 BACK ELEVATION
N.T.S.

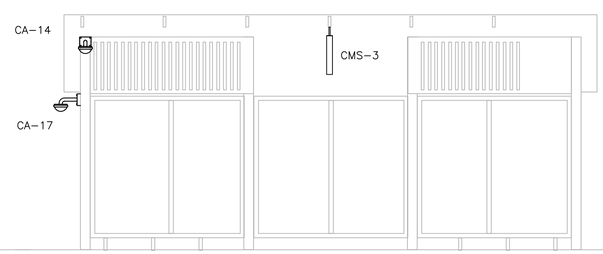


BUS SHELTER #2 BACK ELEVATION
N.T.S.

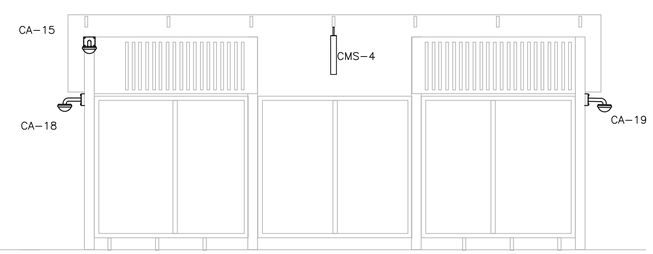
BUS SHELTER #1 BACK ELEVATION
N.T.S.



SE SHELTER #3 FRONT ELEVATION
N.T.S.



BUS SHELTER #2 FRONT ELEVATION
N.T.S.



BUS SHELTER #1 FRONT ELEVATION
N.T.S.

CASE NUMBER : 2020-00316

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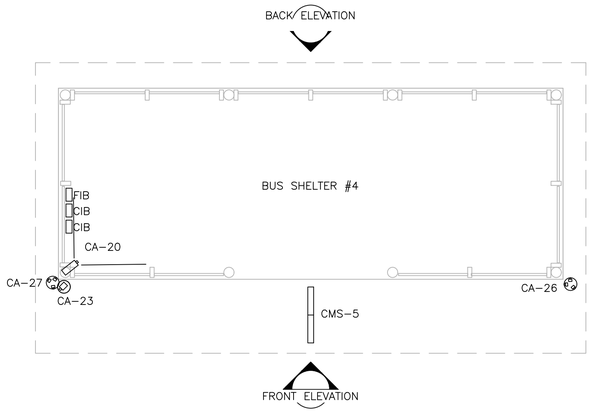
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
08/26/2021		

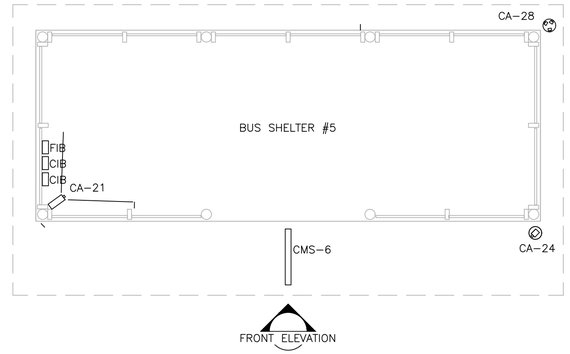
BUS SHELTERS 1-3 CCTV CAMERA AND CMS LOCATIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

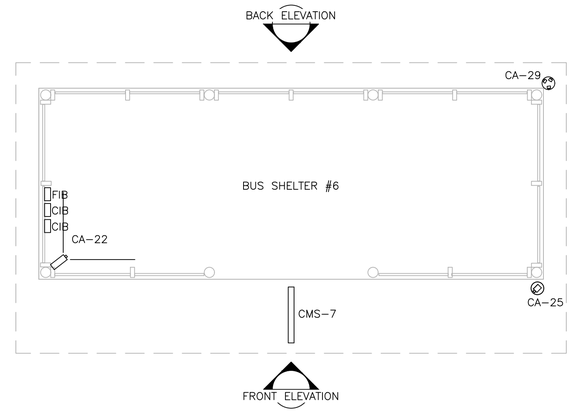
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		28-0007
VERIFIED:		DATE:		



BUS SHELTER #4 FLOOR PLAN
N.T.S.



BUS SHELTER #5 FLOOR PLAN
N.T.S.



BUS SHELTER #6 FLOOR PLAN
N.T.S.

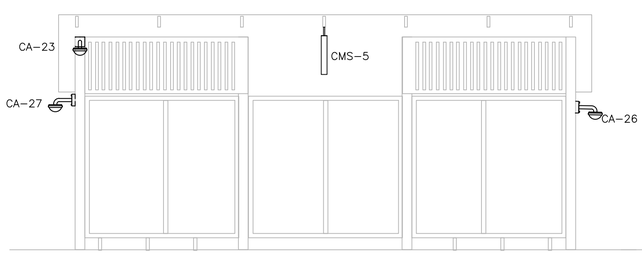
GENERAL NOTES:

1. FIELD LOCATE CIB and FIB IN CEILING OF BUS SHELTER..
2. FIELD LOCATE CONDUIT AND CABLE AS REQUIRED.
3. MOUNT CAMERAS CA-20, CA-21 AND CA-22 IN CEILING TO COVER INTERIOR OF BUS SHELTER
4. MOUNT CAMERAS CA-23, CA-24 AND 25 TO COVER BUS DOOR
5. MOUNT CAMERAS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
6. MOUNT CMS DISPLAY AS SHOWN IN ARCHITECTURAL DRAWINGS.

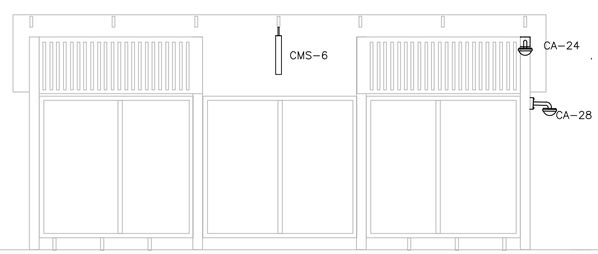
BUS SHELTER #4 BACK ELEVATION
N.T.S.

BUS SHELTER #5 BACK ELEVATION
N.T.S.

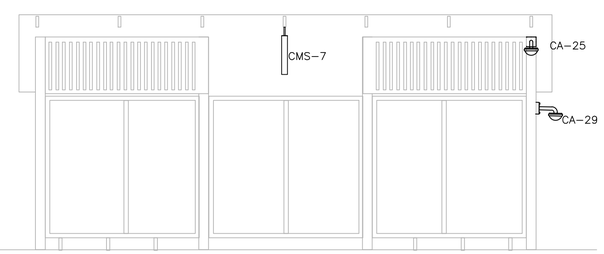
BUS SHELTER #6 BACK ELEVATION
N.T.S.



BUS SHELTER #4 FRONT ELEVATION
N.T.S.



BUS SHELTER #5 FRONT ELEVATION
N.T.S.



BUS SHELTER #6 FRONT ELEVATION
N.T.S.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER CHAMBLISS
08/26/2021

ATKINS
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Tel: (770)933-0280

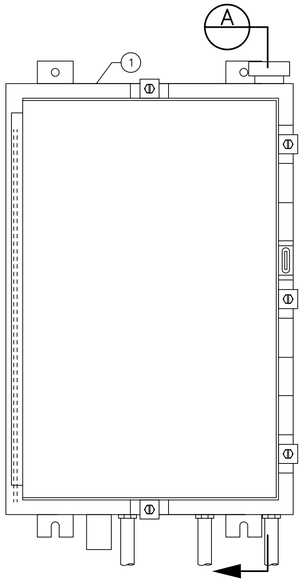
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
08/26/2021		

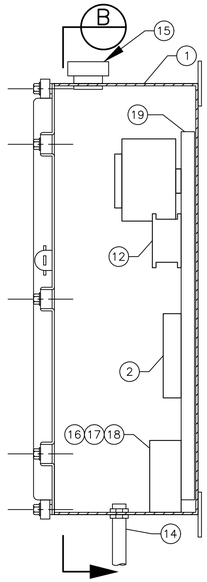
BUS SHELTERS 4-6 CCTV CAMERA AND CMS LOCATIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

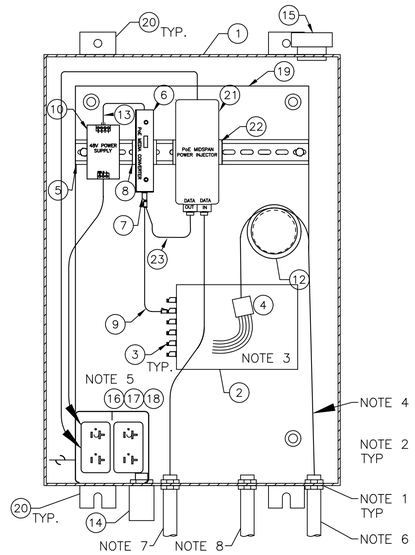
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		28-0008
VERIFIED:		DATE:		



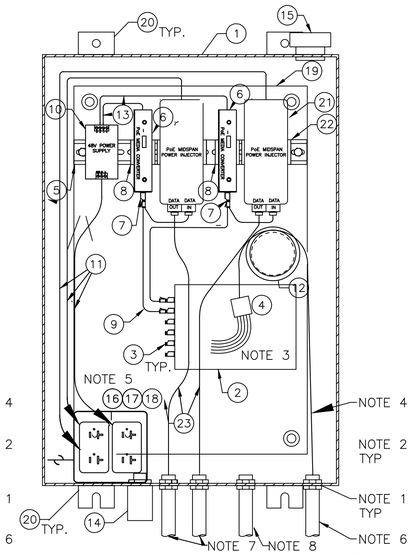
CAMERA INTERFACE BOX DETAIL 1
3" = 1'-0



SECTION A DWG
SCALE



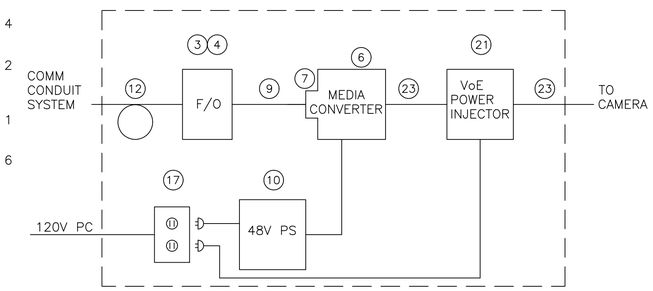
SINGLE CAMERA SECTION A DWG
SCALE



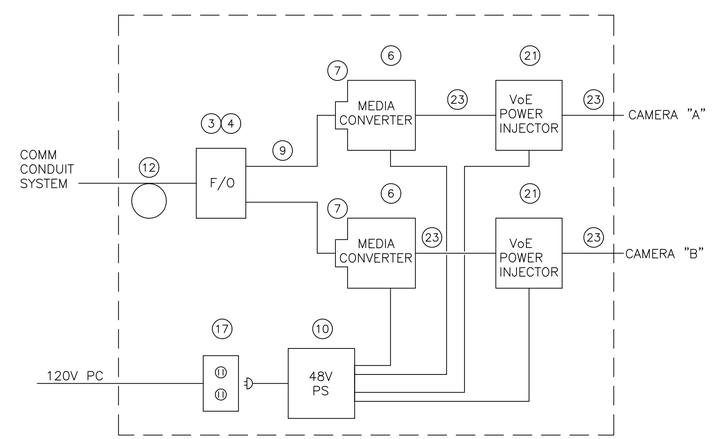
DOUBLE CAMERA SECTION A DWG
SCALE

NOTES:

1. CUT HOLE IN ENCLOSURE FOR CONDUIT ENTRY. PROVIDE SEALING LOCKNUT.
2. SEAL ALL CONDUITS.
3. BUFFER TUBE FAN-OUT KIT (4) LOCATED INSIDE OF FIBER TERMINATION BOX (2).
4. 6 STRAND FIBER CABLE CONNECTED TO FAN-OUT KIT IN FIBER TERMINATION BOX.
5. 120 V AC POWER TO PANEL 1/2"C, 2 #12 AWG W/G.
6. 3/4"C TO COMMUNICATION CONDUIT SYSTEM.
7. 3/4"C CAT6 CABLE TO CAMERA.
8. 3/4"C SPARE OR TO CALL BOX OR DISPLAY.
9, CIB SUPPORTING 2 CAMERAS TWO MEDIA CONVERTERS AND 2 VoP MIDSPAN POWER INJECTORS
10. CA-18 DOES NOT REQUIRE A CIB BUT DOES REQUIRE A VoE POWER INJECTOR



CAMERA INTERFACE BOX (CIB) SINGLE CAMERA



CAMERA INTERFACE BOX (CIB) DOUBLE CAMERA

BILL OF MATERIALS

NO	EQUIPMENT	DESCRIPTION OR APPROVED EQUAL
1	MEDIA CONVERTER CABINET ENCLOSURE	HOFFMAN A24H1608SS6LP
2	6 PORT FIBER TERMINATION BOX	PANDUIT MINI-CON CBXF6WH-AY
3	FIBER TERMINATION MODULE LC DUPLEX SR/SR W/ SFF DUPLEX MM FIBER ADAPTER	PANDUIT MINI-CON CMDSLCEI
4	BUFFER TUBE 6 FIBER FAN-OUT KIT	CORNING FAN-OD25-06
5	DIN 35MM X 7.5MM GALVANIZED MOUNTING RAIL	SIZE TO FIT
6	MEDIA CONVERTER	PERLE S-110P-XT
7	SPF OPTICAL TRANSCEIVER	PERLE PSFP-100D-M2LC2-XT
8	MEDIA CONVERTER DIN RAIL MOUNTING BRACKET	PERLE 04030840
9	FIBER JUMPER LC-LC DUAL 62.5/125 MM	SIZE TO FIT
10	POWER SUPPLY 48 VOLT	TDK-LAMBDA DPP50-48
11	POWER CORD AND PLUG	NEMA 5-15P PLUG WITH 3C#16 CORD
12	FIBER OPTIC SPOOL	PANDUIT FRSSM2
13	RED AND BLACK #16 AWG	AS REQUIRED
14	STAINLESS STEEL VENT DRAIN	HOFFMAN H20MIT AVDR4554
15	STAINLESS COMPENSATOR	HOFFMAN APCD556
16	4 SQUARE OUTLET BOX - 1 1/2" DEEP	52151-1/2-3/4
17	GFCI RECEPTACLE 20A 120V WEATHER RESISTANT	LEVITON WT-899-G
18	2 GANG GFI OUTLET COVER	RACO 808-C
19	MOUNTING PLATE	HOFFMAN A24P16SS6
20	MOUNTING HARDWARE	AS REQUIRED
21	PoE MIDSPAN POWER INJECTOR	AXIS T8134 - 60W MIDSPAN
22	PoE MIDSPAN POWER EJECTOR DIN RAIL MOUNTING BRACKET	AXIS DIN RAIL TYPED A
23	CAT-6 JUMPER	SIZE TO FIT

CIB ALLICATION

SINGLE CAMERA		DOUBLE CAMERA
CA-1	CA-19	CA-10/CA-13
CA-2	CA-26	CA-11/CA-14
CA-3	CA-27	CA-12/CA-15
CA-4	CA-28	CA-20/CA-23
CA-5	CA-29	CA-21/CA-24
CA-6	CA-22	CA-22/CA-23
CA-7	CA-25	
CA-8	CA-25	
CA-9	CA-26	
CA-16	CA-27	
CA-17	CA-28	
CA-18	CA-29	

CASE NUMBER : 2020-00316

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CCTV
CAMERA INTERFACE BOX (CIB)
BY OTHERS
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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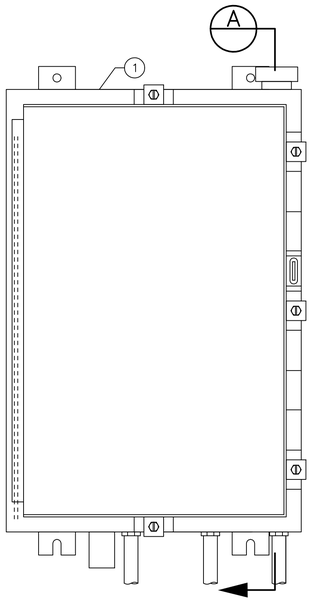
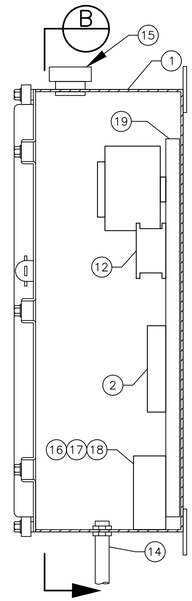
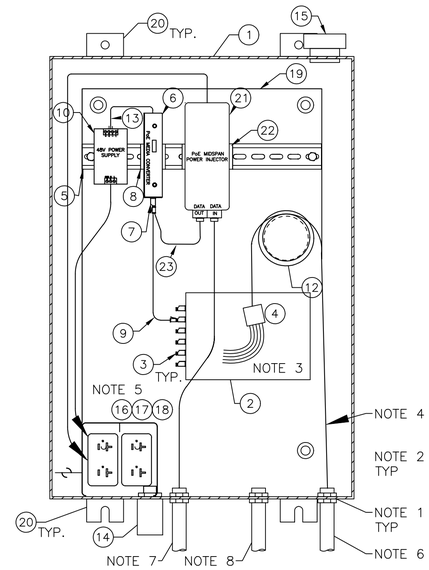


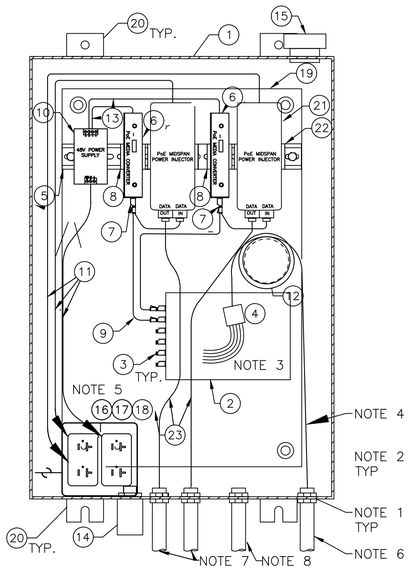
FIBER INTERFACE BOX DETAIL 1
3" = 1'-0



SECTION A DWG
SCALE



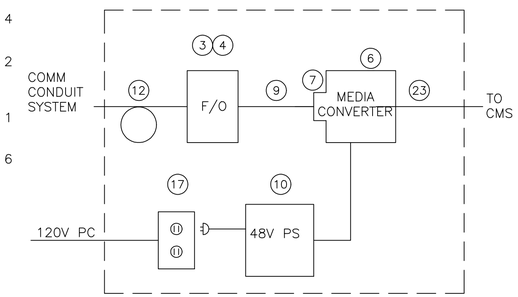
SINGLE CMS SECTION A DWG
SCALE



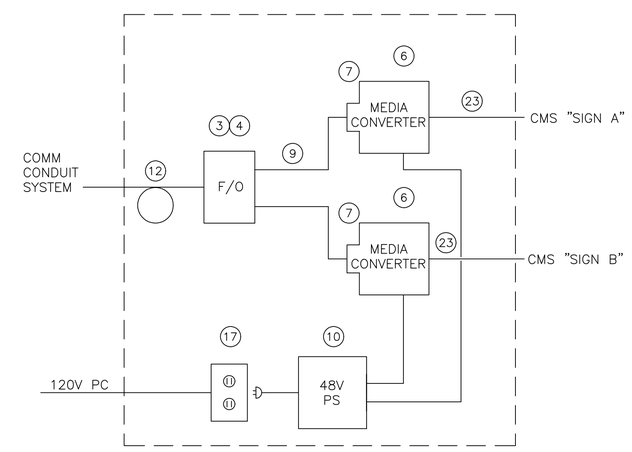
DOUBLE CMS SECTION A DWG
SCALE

NOTES:

1. CUT HOLE IN ENCLOSURE FOR CONDUIT ENTRY. PROVIDE SEALING LOCKNUT.
2. SEAL ALL CONDUITS.
3. BUFFER TUBE FAN-OUT KIT (4) LOCATED INSIDE OF FIBER TERMINATION BOX (2).
4. 6 STRAND FIBER CABLE CONNECTED TO FAN-OUT KIT IN FIBER TERMINATION BOX.
5. 120 V AC POWER TO PANEL 1/2"C, 2 #12 AWG W/G.
6. 3/4"C TO COMMUNICATION CONDUIT SYSTEM.
7. 3/4"C CAT6 CABLE TO CAMERA.
8. 3/4"C SPARE OR TO CALL BOX OR DISPLAY.
9. FIB SUPPORTING 2 DISPLAYS AND 2 MEDIA CONVERTERS



FIBER INTERFACE BOX (FIB) – SINGLE SIGN



FIBER INTERFACE BOX (FIB) – DOUBLE SIGN

BILL OF MATERIALS

NO	EQUIPMENT	DESCRIPTION OR APPROVED EQUAL
1	MEDIA CONVERTER CABINET ENCLOSURE	HOFFMAN A24H1608SS6LP
2	6 PORT FIBER TERMINATION BOX	PANDUIT MINI-CON CBXF6WH-AY
3	FIBER TERMINATION MODULE LC DUPLEX SR/SR W/ SFF DUPLEX MM FIBER ADAPTER	PANDUIT MINI-CON CMDSLCEI
4	BUFFER TUBE 6 FIBER FAN-OUT KIT	CORNING FAN-OD25-06
5	DIN 35MM X 7.5MM GALVANIZED MOUNTING RAIL	SIZE TO FIT
6	MEDIA CONVERTER	PERLE S-110P-XT
7	SPF OPTICAL TRANSCEIVER	PERLE PSFP-100D-M2LC2-XT
8	MEDIA CONVERTER DIN RAIL MOUNTING BRACKET	PERLE 04030840
9	FIBER JUMPER LC-LC DUAL 62.5/125 MM	SIZE TO FIT
10	POWER SUPPLY 48 VOLT	TDK-LAMBDA DPP50-48
11	POWER CORD AND PLUG	NEMA 5-15P PLUG WITH 3C#16 CORD
12	FIBER OPTIC SPOOL	PANDUIT FRSSM2
13	RED AND BLACK #16 AWG	AS REQUIRED
14	STAINLESS STEEL VENT DRAIN	HOFFMAN H20MIT AVDR4554
15	STAINLESS COMPENSATOR	HOFFMAN APCD556
16	4 SQUARE OUTLET BOX – 1 1/2" DEEP	52151-1/2-3/4
17	GFCI RECEPTACLE 20A 120V WEATHER RESISTANT	LEVITON WT-899-G
18	2 GANG GFI OUTLET COVER	RACO 808-C
19	MOUNTING PLATE	HOFFMAN A24P16SS6
20	MOUNTING HARDWARE	AS REQUIRED
21	NOT USED	
22	PoE MIDSPAN POWER EJECTOR DIN RAIL MOUNTING BRACKET	AXIS DIN RAIL TYPED A
23	CAT-6 JUMPER	SIZE TO FIT

FIB ALLICATION

SINGLE CMS	DOUBLE CMS
CMS-2	CMS-1/CMS-3
CMS-4	CMS-8/CMS-9
CMS-5	
CMS-6	
CMS-7	

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. PE012859 PROFESSIONAL ENGINEER CHAMBLISS
08/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

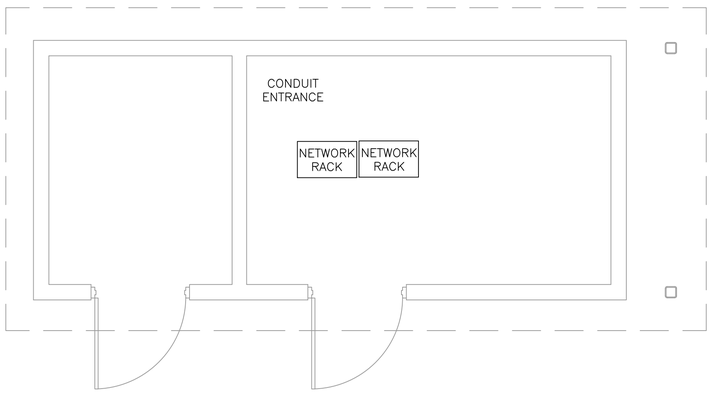
REVISION DATES

08/26/2021		

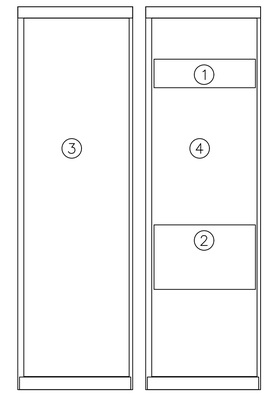
MESSAGE SIGN
FIBER INTERFACE BOX (FIB)
BY OTHERS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		28-0010
CORRECTED:		DATE:		
VERIFIED:		DATE:		



STORAGE BUILDING
N.T.S.



1. NETWORK SWITCH (GFE)
2. FIBER TERMINATION BREAK OUT PANELS
3. EXPANSION RACK
4. RESERVED FOR FUTURE SYSTEMS

NETWORK RACKS EQUIPMENT LAYOUT

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. PE012959 PROFESSIONAL ENGINEER CHAMBLISS 08/26/2021

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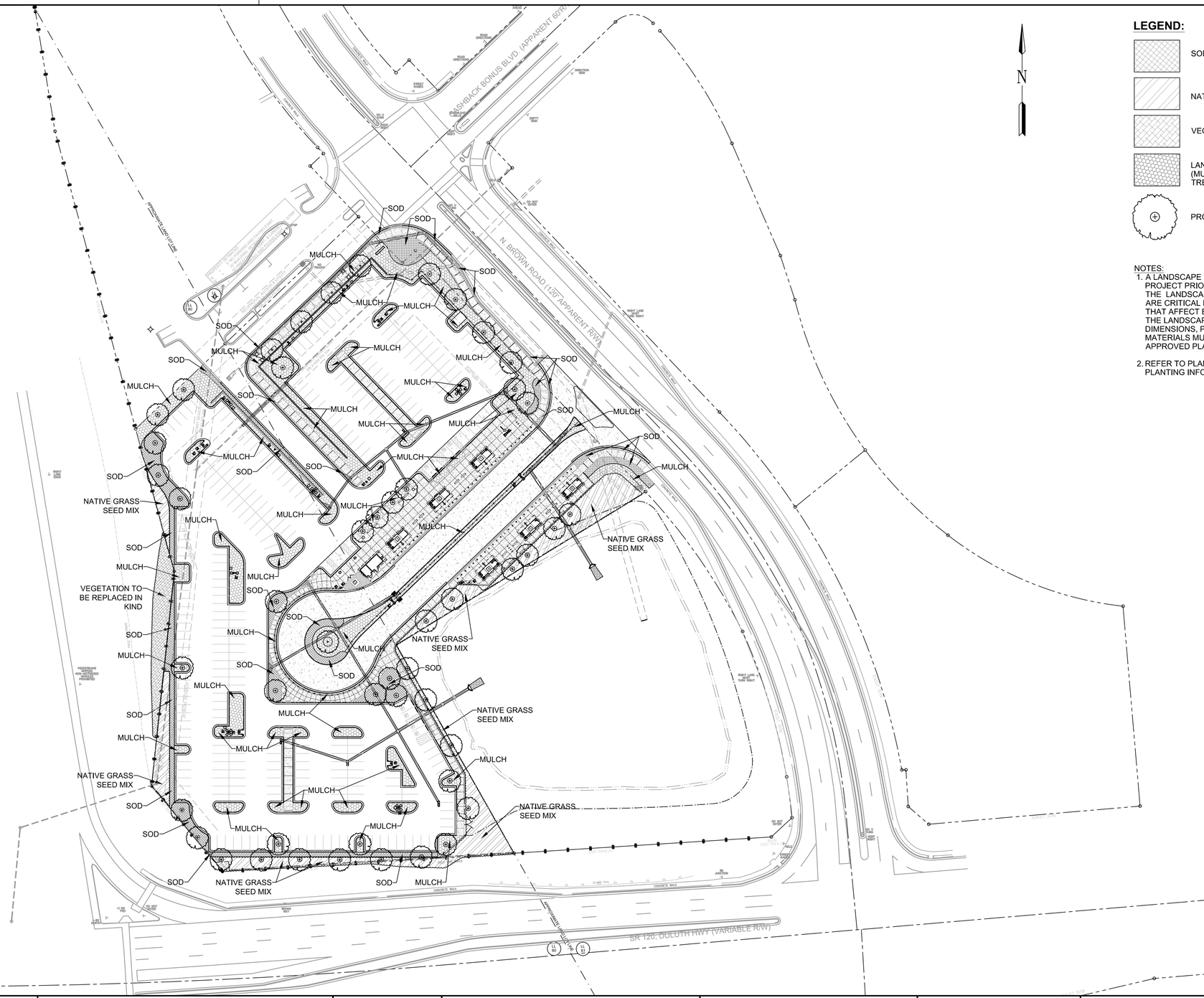
CCTV
LOCAL AREA NETWORK
EQUIPMENT ROOM

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		28-0011
VERIFIED:		DATE:		



LEGEND:

- SOD (BERMUDA TIFTUF)
- NATIVE GRASS SEED MIX
- VEGETATION TO BE REPLACED IN KIND
- LANDSCAPE MULCH - PINE STRAW (MULCH ALL PLANT BEDS AND TREE MULCH RINGS)
- PROPOSED TREE

NOTES:

1. A LANDSCAPE CONFERENCE IS REQUIRED FOR THIS PROJECT PRIOR TO ANY FINISH LANDSCAPING. CALL THE LANDSCAPE ARCHITECT AT (770) 933-0280. THERE ARE CRITICAL FACTORS ON THE LANDSCAPE PLAN THAT AFFECT BOTH THE GENERAL CONTRACTOR AND THE LANDSCAPE CONTRACTOR. PLANTING AREA DIMENSIONS, PLANTING METHODS AND PLANT MATERIALS MUST BE IN ACCORDANCE WITH THE APPROVED PLAN.
2. REFER TO PLANT SCHEDULE/NOTES FOR ADDITIONAL PLANTING INFORMATION AND SEED MIXES.

CASE NUMBER : 2020-00316

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
POND
GDOT R/W AND LIMITED ACCESS

GEORGIA REGISTERED No. 001827 PROFESSIONAL LANDSCAPE ARCHITECT 09-30-2021 CHAD L. HAYES

ATKINS
Member of the SNC-Lavalin Group

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Expiration Date 06/30/2022

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

REVISION DATES		
8/26/2021		
9/30/2021		

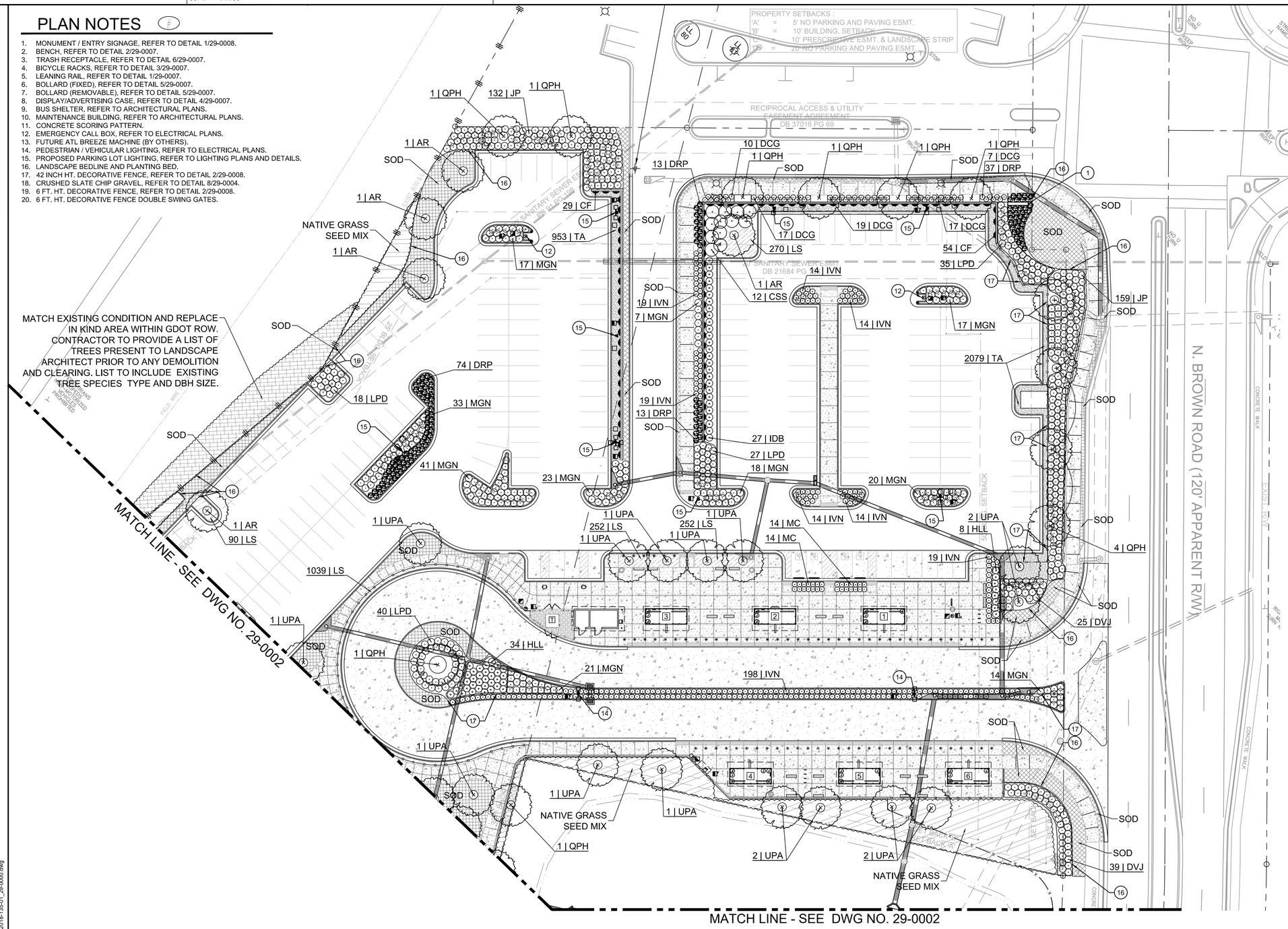
OVERALL LANDSCAPE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		

PLAN NOTES

1. MONUMENT / ENTRY SIGNAGE, REFER TO DETAIL 1/29-0008.
2. BENCH, REFER TO DETAIL 2/29-0007.
3. TRASH RECEPTACLE, REFER TO DETAIL 6/29-0007.
4. BICYCLE RACKS, REFER TO DETAIL 3/29-0007.
5. LEANING RAIL, REFER TO DETAIL 1/29-0007.
6. BOLLARD (FIXED), REFER TO DETAIL 5/29-0007.
7. BOLLARD (REMOVABLE), REFER TO DETAIL 5/29-0007.
8. DISPLAY/ADVERTISING CASE, REFER TO DETAIL 4/29-0007.
9. BUS SHELTER, REFER TO ARCHITECTURAL PLANS.
10. MAINTENANCE BUILDING, REFER TO ARCHITECTURAL PLANS.
11. CONCRETE SCORING PATTERN.
12. EMERGENCY CALL BOX, REFER TO ELECTRICAL PLANS.
13. FUTURE ATL BREEZE MACHINE (BY OTHERS).
14. PEDESTRIAN / VEHICULAR LIGHTING, REFER TO ELECTRICAL PLANS.
15. PROPOSED PARKING LOT LIGHTING, REFER TO LIGHTING PLANS AND DETAILS.
16. LANDSCAPE BEDLINE AND PLANTING BED.
17. 42 INCH HT. DECORATIVE FENCE, REFER TO DETAIL 2/29-0008.
18. CRUSHED SLATE CHIP GRAVEL, REFER TO DETAIL 8/29-0004.
19. 6 FT. HT. DECORATIVE FENCE, REFER TO DETAIL 2/29-0008.
20. 6 FT. HT. DECORATIVE FENCE DOUBLE SWING GATES.



LEGEND:

QTY | KEY	
	PLANT KEY (PLANT QUANTITY | PLANT TYPE) (REFER TO PLANT SCHEDULE)
	SHADE TREE, REFER TO PLANT KEY AND SCHEDULE FOR TYPE
	SHRUB, REFER TO PLANT KEY AND PLANT SCHEDULE FOR TYPE
	CF, FICUS PUMILA (CREEPING FIG)
	NATIVE GRASS SEED MIX
	TA, TRACHELOSPERMUM ASIATICUM (ASIATIC JASMINE)
	LS, LIRIOPE 'SPICATA' (CREEPING LIRIOPE)

NOTE: REFER TO SHEET 29-000 FOR LOCATIONS OF SOD, NATIVE GRASS SEED MIX, AND LANDSCAPE MULCH. REFER TO SHEET 29-0004 THRU 29-0006 FOR PLANT SCHEDULE, NOTES, AND PLANTING DETAILS.

CASE NUMBER : 2020-00316

EX BARBED WIRE FENCE	
PROPOSED PROPERTY/ROW LINE	
PROPOSED CENTERLINE	
PROPOSED FENCE	
LAND LOT LINE	
POND	
GDOT R/W AND LIMITED ACCESS	

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 001827 09-30-2021 CHAD L. HAYES

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

REVISION DATES		
8/26/2021		
9/30/2021		

ENLARGEMENT LANDSCAPE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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VERIFIED:		DATE:		

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20. 6 FT. HT. DECORATIVE FENCE DOUBLE SWING GATES.

LEGEND:

QTY | KEY	PLANT KEY (PLANT QUANTITY | PLANT TYPE) (REFER TO PLANT SCHEDULE)
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	SHRUB, REFER TO PLANT KEY AND PLANT SCHEDULE FOR TYPE
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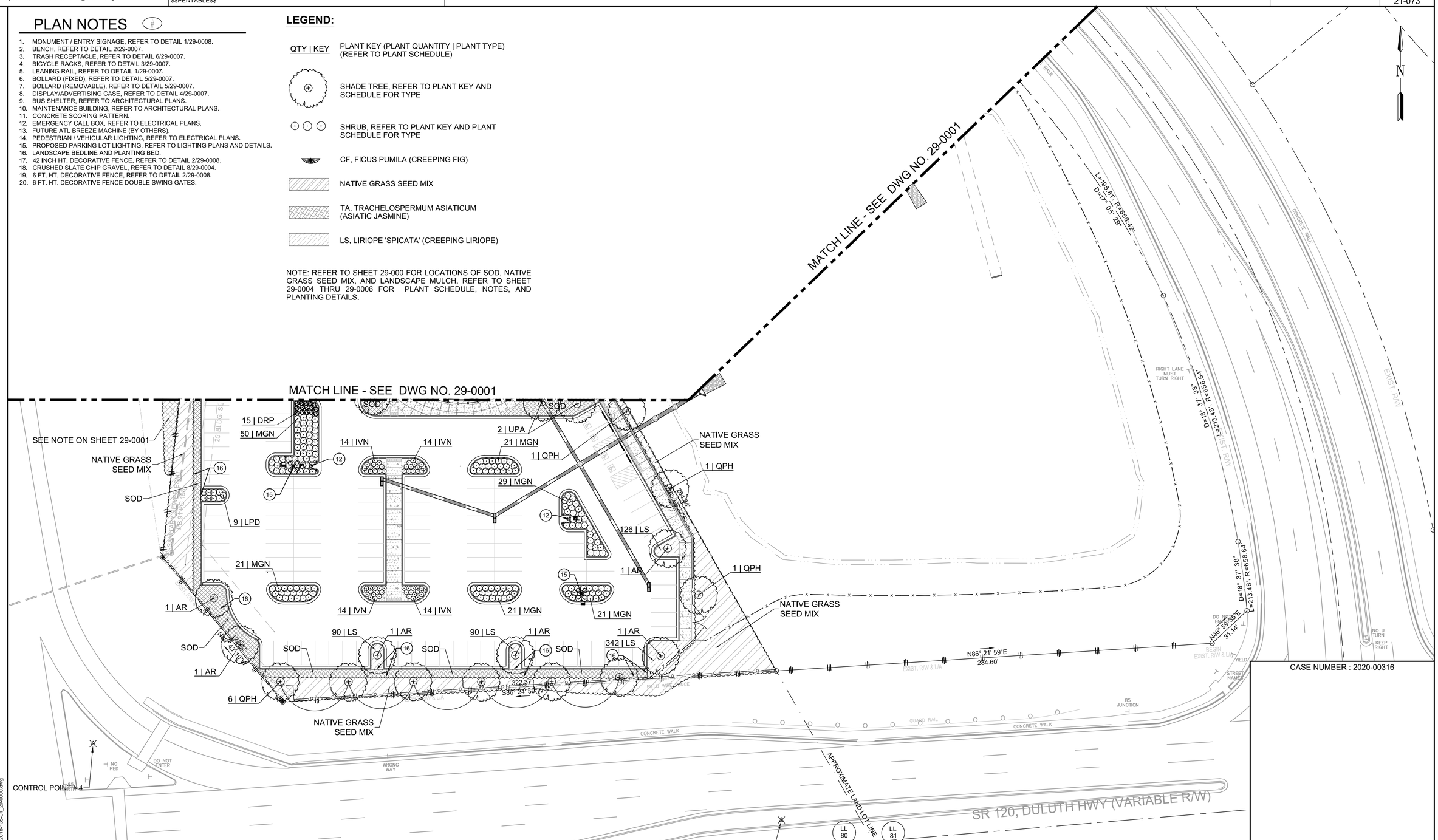

EX BARBED WIRE FENCE	
PROPOSED PROPERTY/ROW LINE	
PROPOSED CENTERLINE	
PROPOSED FENCE	
LAND LOT LINE	
POND	
GDOT R/W AND LIMITED ACCESS	

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 001827 08-26-2021 CHAD L. HAYES

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

REVISION DATES
8/26/2021

ENLARGEMENT LANDSCAPE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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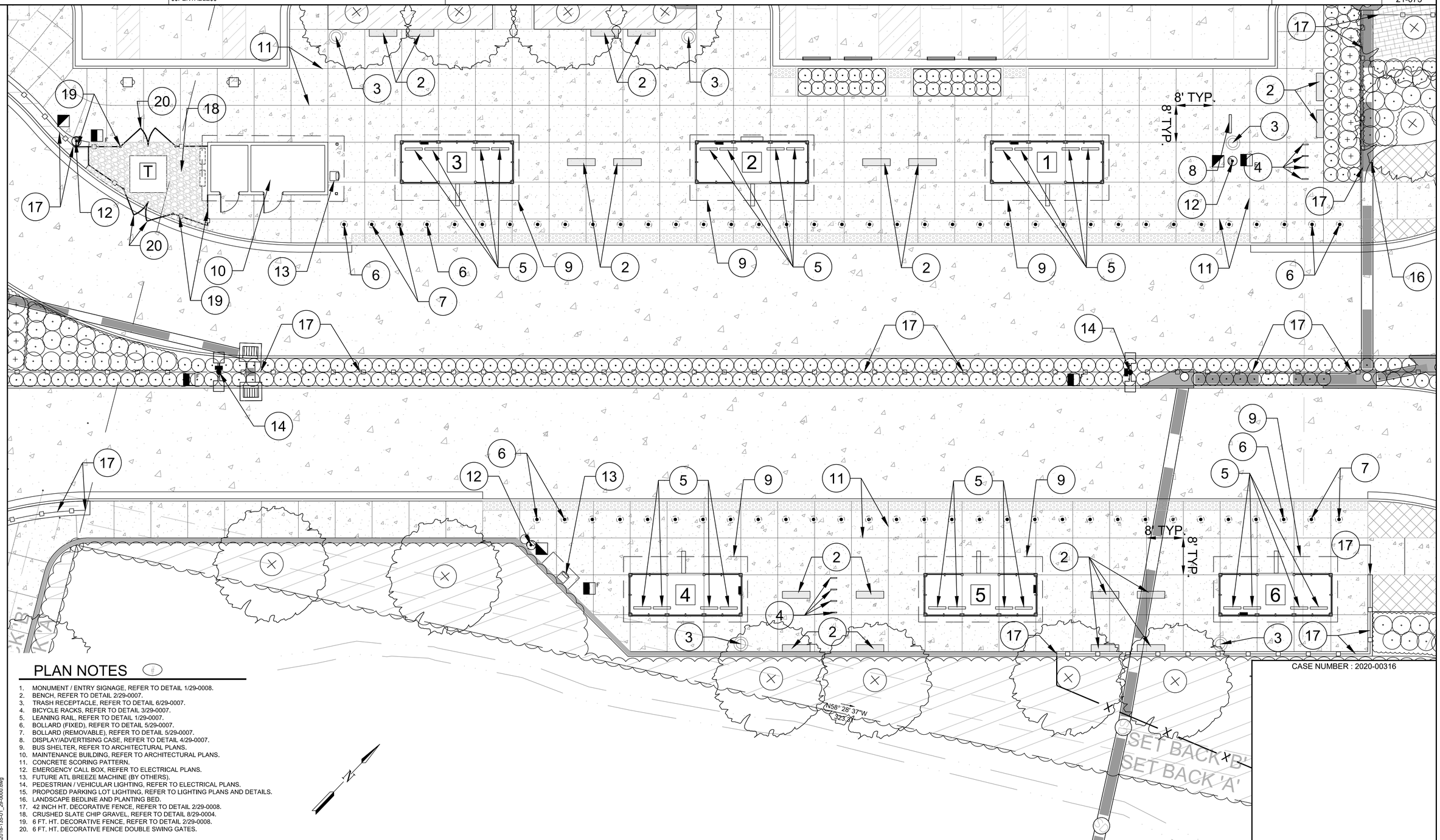
VERIFIED:		DATE:		



CASE NUMBER : 2020-00316

PLAN NOTES

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EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
POND
GDOT R/W AND LIMITED ACCESS

GEORGIA REGISTERED No. 001827 PROFESSIONAL 08-26-2021 LANDSCAPE ARCHITECT CHAD L. HAYES

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Expiration Date 06/30/2022

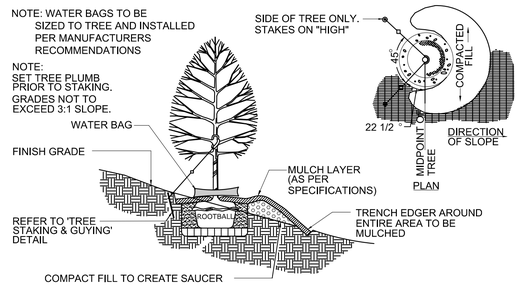
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES		
8/26/2021		

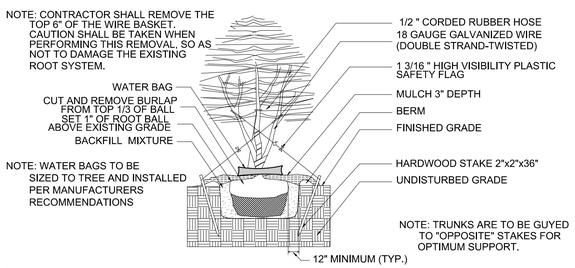
BUS PLAZA AREA ENLARGEMENT LANDSCAPE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

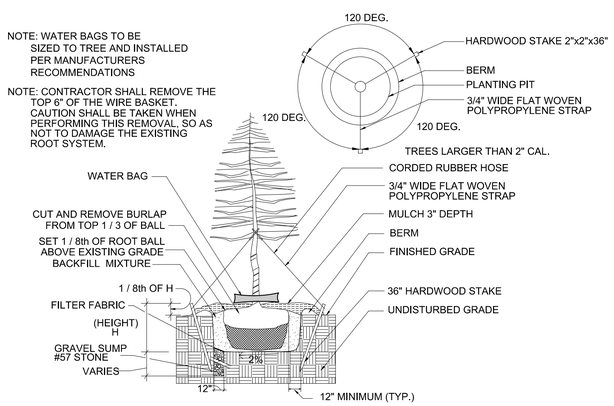
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



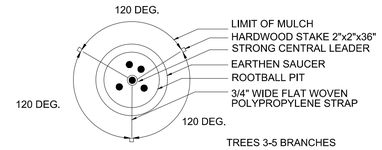
1 TREE PLANTING ON SLOPES
N.T.S.



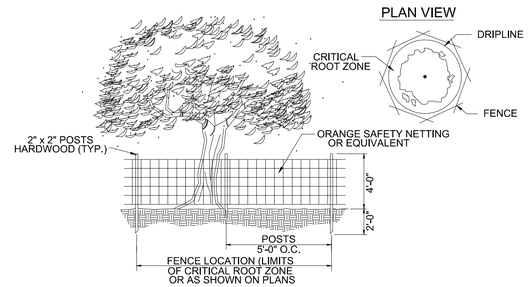
2 MULTI-TRUNK TREE WELL DETAIL (TYPICAL)
N.T.S.



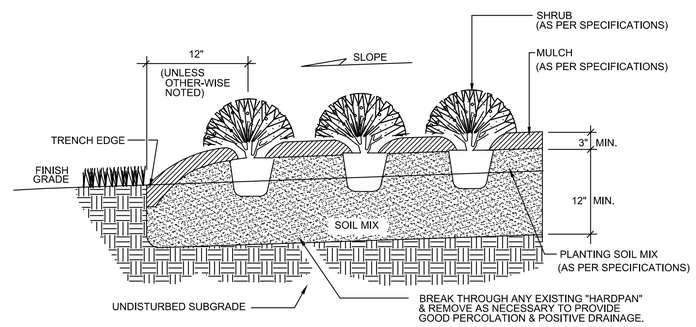
3 TREE PLANTING DETAIL
N.T.S.



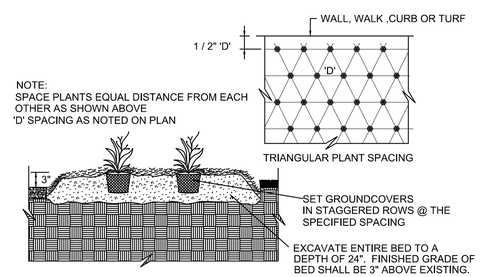
4 MULTI-TRUNK TREE STAKING DETAIL (TYPICAL)
N.T.S.



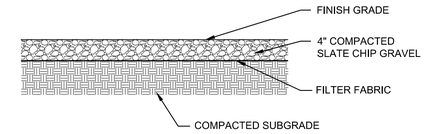
5 TYPICAL TREE PROTECTION DETAIL
N.T.S.



6 SHRUB PLANTING DETAIL (TYPICAL)
N.T.S.



7 GROUNDCOVER & ANNUAL DETAIL (TYPICAL)
N.T.S.



8 SLATE CHIP DETAIL
N.T.S.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 001827 PROFESSIONAL 08-26-2021 LANDSCAPE ARCHITECT CHAD L. HAYES

ATKINS
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Certificate of Authorization #PEF000902
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REVISION DATES		
8/26/2021		

LANDSCAPE DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

OVERALL PROJECT LANDSCAPE PLANT SCHEDULE

KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENT
TREES					
AR	11	ACER RUBRUM 'OCTOBER GLORY"	OCTOBER GLORY RED MAPLE	3" CAL.	B.B., SINGLE-STEM
QPH	21	QUERCUS PHELLOS 'HIGHTOWER'	HIGHTOWER OAK	3" CAL.	B.B., SINGLE-STEM
UPA	17	ULMUS PARVIFOLIA 'EMMER II' ALLEE	ALLEE LACEBARK ELM	3" CAL.	B.B., SINGLE-STEM
SHRUBS AND ORNAMENTAL GRASSES					
CSS	12	CAMELLIA SASANQUA 'SETSUGEKKA'	SETSUGEKKA CAMELLIA	7 GAL.	CONT, +/- 7'-8' O.C.
DCG	70	DISTYLIUM 'CINNAMON GIRL'	CINNAMON GIRL DISTYLIUM	3 GAL.	CONT, +/- 3' O.C.
DVJ	64	DISTYLIUM 'VINTAGE JADE'	VINTAGE JADE DISTYLIUM	3 GAL.	CONT, +/- 4' O.C.
HLL	42	HYDRANGEA PANICULATA 'JANE'	LITTLE LIME HYDRANGEA	3 GAL.	CONT, +/- 4' O.C.
IDB	27	ILEX CORNUTA 'DWARF BURFORD'	DWARF BURFORD HOLLY	3 GAL.	CONT, +/- 3' O.C.
IVN	367	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	3 GAL.	CONT, +/- 3' O.C.
JP	291	JUNIPERUS DAVURICA EXPANSA 'PARSONII'	PARSON'S JUNIPER	3 GAL.	CONT, +/- 3'-6" O.C.
LPD	129	LOROPETALUM CHINESE 'SHANG-HI'	PURPLE DIAMOND LOROPETALUM	3 GAL.	CONT, +/- 4' O.C.
MGN	374	MISCANTHUS SINENSIS 'GRACILLIMUS NANA'	DWARF MAIDEN GRASS	3 GAL.	CONT, +/- 4' O.C.
MC	28	MUHLENBERGIA CAPILLARIS 'LENCA'	REGAL MIST PINK MUHLY GRASS	3 GAL.	CONT, +/- 3' O.C.
DRP	152	ROSA 'MEIJOCOS' PINK DRIFT	PINK DRIFT ROSE	3 GAL.	CONT, +/- 3'-6" O.C.
PERENNIALS AND GROUNDCOVERS					
CF	83	FICUS PUMILA	CREEPING FIG	1 GAL.	CONT, +/- 6' O.C.
LS	2551	LIRIOPE 'SPICATA'	CREEPING LIRIOPE	4" POT	CONT, +/- 12" O.C.
TA	3032	TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE	4" POT	CONT, +/- 12" O.C.

GDOT RIGHT-OF-WAY PLANTINGS TO BE DETERMINED AFTER CONTRACTOR PROVIDES LIST OF EXISTING TREES.

DISTURBED / LANDSCAPE AREA WITHIN GDOT ROW WILL NEED MATCH EXISTING CONDITION AND REPLACED IN KIND. CONTRACTOR TO PROVIDE A LIST OF TREES PRESENT TO LANDSCAPE ARCHITECT PRIOR TO ANY DEMOLITION AND CLEARING. LIST TO INCLUDE EXISTING TREE SPECIES TYPE AND DBH SIZE.

NATIVE GRASS SEED MIX (SEGR) — 15 LBS (1 ACRE)

(BY APPLEWOOD SEED COMPANY, APPLY BY HYDROSEED, GRASSES AT 15 LBS/ACRE) SEED CODE: SEGR
THE SOUTHEAST NATIVE GRASS SEED MIX IS A MIXTURE OF WARM AND COOL-SEASON GRASSES, GROWS TO A HEIGHT OF 24-48 INCHES. CONTAINS LITTLE BLUESTEM, VIRGINIA WILDRYE, PURPLETOP AND BROOMSEDGE.
APPLEWOOD SEED COMPANY - 5380 VIVIAN ST., ARVADA, CO 80002
SALES@APPLEWOODSEED.COM , T: 303-431-7333

SOD - ± 1,525 SY. BERMUDA TIFTUF

MULCH - ± 3,000 SY. 4 IN LAYER OF PINE STRAW - REAPPLY TWICE PER YEAR OR AS DIRECTED UNTIL END OF LANDSCAPE MAINTENANCE AGREEMENT
MULCH ALL SHRUB BEDS, GROUNDCOVER BEDS AND TREE RINGS.

SLATE CHIP GRAVEL - ± 5 TONS (STANDARD SIZE TO BE INSTALLED AT 4" THICK AND COMPACTED)

PLANT TOPSOIL - ± 650 CY. PLANT MIXTURE = ± 3 CY PER TREE PLANTING AREA. ± 2 INCH LAYER IN ALL SEEDED AND SOD AREAS. ± 4" ADDED THROUGHOUT ALL SHRUB AND GROUNDCOVER PLANTING BEDS. REFER TO PLANTING DETAILS, SPECIAL PROVISIONS AND SPECIFICATIONS FOR PLANT TOPSOIL PREPARATION FOR PLANTING.
REFER TO GRADING PLANS FOR EXISTING SITE TOPSOIL STOCKPILE.

REFER TO LANDSCAPE PLANTING NOTE #35, SHEET 29-0006 REGARDING EROSION CONTROL MATTING

FERTILIZER = RATE PER SOILS TEST RECOMMENDATIONS * PRE-EMERGENT TO BE APPLIED TO ALL PLANT BEDS PER MANUFACTURER'S RECOMMENDATIONS

SITE FURNISHING SCHEDULE

QUANTITY	DESCRIPTION	COMMENTS
18 EACH	BENCH	INSTALL PER MANUFACTURER RECOMMENDATIONS
24 EACH	LEANING RAIL	INSTALL PER MANUFACTURER RECOMMENDATIONS
5 EACH	BLAST RESISTANT TRASH RECEPTACLE	INSTALL PER MANUFACTURER RECOMMENDATIONS
8 EACH	BIKE RACK	INSTALL PER MANUFACTURER RECOMMENDATIONS
63 EACH	BOLLARD (FIXED)*	INSTALL PER MANUFACTURER RECOMMENDATIONS
4 EACH	BOLLARD (REMOVABLE)*	INSTALL PER MANUFACTURER RECOMMENDATIONS
1 EACH	DISPLAY/ADVERTISING CASE	INSTALL PER MANUFACTURER RECOMMENDATIONS
1,011 L.F.	42 IN. HT. DECORATIVE FENCE/RAILING	
95 L.F.	6 FT. HT. DECORATIVE FENCE/RAILING	

* REFER TO CIVIL PLANS FOR PRECAST CONCRETE BOLLARDS AT EMERGENCY CALL BOX LOCATIONS IN THE PARKING LOT AND AT THE END OF THE DRIVEWAY IN THE LANDSCAPE PLANTER AT THE PLAZA. BOLLARDS SHOWN IN THIS SCHEDULE ARE LOCATED AT THE BUS LOADING AREAS.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 001827 08-26-2021 CHAD L. HAYES

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
8/26/2021

LANDSCAPE SCHEDULE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 29-0005

LANDSCAPE PLANTING NOTES:

1. NO PERMANENT SIGN(S), FLAG POLE(S), PROPOSED FIRE HYDRANTS, POWER TRANSFORMERS, SIDEWALKS, OR ADA RAMPS WILL BE PLACED IN CONFLICT WITH AN ORDINANCE CODED OR APPROVED TREE PLANTING LOCATION.

2. A MAINTENANCE BOND, LETTER OF CREDIT OR ESCROW ACCOUNT IS REQUIRED FOR ALL LANDSCAPE MATERIALS PLANTED TO MEET CONTRACT REQUIREMENTS. THE AMOUNT OF THIS "MAINTENANCE SURETY" MUST BE 110 PERCENT OF THE COST OF ALL REQUIRED PLANT MATERIALS AND THE COST OF THE INSTALLATION AND GUARANTEE OF THOSE MATERIALS. THE EXPIRATION OF THE MAINTENANCE BOND SHALL BE ONE YEAR FROM FINAL ACCEPTANCE.

3. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING.

4. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO THE ISSUANCE OF THE ON-SITE CONSTRUCTION PERMIT. CALL THE LANDSCAPE ARCHITECT (770) 933-0280 TO ARRANGE A MEETING AT THE SITE.

5. TREE PROTECTION AND REPLACEMENT SHALL BE ENFORCED ACCORDING TO GWINNETT COUNTY STANDARDS. ANY FIELD ADJUSTMENTS TO TREE PROTECTION DEVICE TYPES OR LOCATIONS OR SUBSTITUTIONS OF PLANT MATERIALS SHOWN ON THE APPROVED PLANS ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE LANDSCAPE ARCHITECT.

6. THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL COMMUNICATION, WATER, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.

7. PARKING LOT ISLANDS AND MEDIANS MUST BE COVERED WITH FOUR (4) INCHES OF ORGANIC MULCH MATERIAL (REPLACED PERIODICALLY). TO DISCOURAGE SOIL COMPACTION FROM PEDESTRIAN TRAFFIC, THESE AREAS MAY BE PLANTED WITH LOW EVERGREEN SHRUBS, BUT NOT WITH GRASS.

8. POSITION THE PARKING LOT TREES APPROXIMATELY MIN. FOUR FEET FROM ALL ADJACENT CURB LINES TO ACHIEVE MAXIMUM SHADING EFFECT.

9. TOPSOIL FROM WITHIN THE LIMITS OF DISTURBANCE SHALL BE STRIPED AND STOCKPILED IN A SUITABLE LOCATION IN CONJUNCTION WITH GRADING OPERATIONS. PRIOR TO THE PERMANENT SOD, SEED MIXES AND LANDSCAPE PLANTINGS, REMOVE THE PLANT TOPSOIL FROM THE STOCKPILE AND SPREAD IT EVENLY OVER ALL LANDSCAPE PLANTING AREAS. ADDITIONAL PLANT MIX TOPSOIL WILL BE REQUIRED. REFER TO PLANT SCHEDULE FOR QUANTITIES AND DEPTHS. REFER TO GRADING PLANS FOR EXISTING TOPSOIL STOCKPILE INFORMATION.

10. BUFFERS MUST BE PLANTED TO GWINNETT COUNTY STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED FOR APPROVED UTILITY OR ACCESS CROSSINGS.

11. THE INSTALLATION OF EROSION CONTROL DEVICES CAUSES HARM TO TREES. USE SILT FENCE ONLY AS NEEDED AND LOCATE IT AS FAR FROM TREE PROTECTION ZONES AS POSSIBLE.

12. PROVIDE 20' MINIMUM SPACING BETWEEN THE TRUNKS OF ALL DECIDUOUS SHADE TREES. PROVIDE GREATER SPACING WHERE POSSIBLE.

13. PROVIDE 20' MINIMUM SPACING BETWEEN THE TRUNKS OF ALL DECIDUOUS SHADE TREES AND ANY EXISTING OR PROPOSED LIGHT POLES. PROVIDE GREATER SPACING WHERE POSSIBLE.

14. PROVIDE 15' MINIMUM SPACING BETWEEN THE TRUNKS OF ALL DECIDUOUS SHADE TREES AND ANY EXISTING OR PROPOSED BUILDINGS. PROVIDE GREATER SPACING WHERE POSSIBLE.

15. DO NOT INSTALL OVER-STORY TREES IN LOCATIONS WHERE FUTURE CONFLICTS WITH EXISTING OVERHEAD UTILITY LINES WILL BE INEVITABLE. CONTACT THE LANDSCAPE ARCHITECT (770) 933-0280 IF ANY POTENTIAL CONFLICTS ARE IDENTIFIED DURING THE INSTALLATION PROCESS.

16. FISCAL SURETY FOR MAINTENANCE OF PLANTED TREES MUST BE IN PLACE PRIOR TO THE ISSUANCE OF FINAL ACCEPTANCE. A MAINTENANCE INSPECTION WILL BE PERFORMED PRIOR TO THE SCHEDULED RELEASE DATE OF THE POSTED FISCAL SURETY TO DETERMINE THE HEALTH OF THE TREES PLANTED TO MEET THE REQUIREMENTS OF THIS ORDINANCE AS WELL AS ANY BUFFER PLANTINGS.

17. WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS ONE (1) INCH IN DIAMETER AND LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.

18. PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE ACCORDING TO STANDARD ARBORICULTURAL PRACTICE (SEE ANSI A300-1995).

19. PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITHIN THE TEMPORARY OR PERMANENT UTILITY EASEMENTS WITH STRAPPED-ON PLANKING OR SIMILAR PROTECTIVE DEVICE.

LANDSCAPE PLANTING NOTES CONTINUED:

20. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE FROM INJURY, PESTS, DISEASE, NUTRITIONAL DISORDERS OR ROOT DEFECTS IN ORDER TO ASSURE A REASONABLE EXPECTATION OF SURVIVABILITY.

21. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED & BURLAPPED (B&B) AS INDICATED IN THE PLANT LIST. BURLAP MATERIAL ON BALLED AND BURLAPPED PLANTS SHALL BE THE TYPE WHICH WILL DECAY WITHIN TWO YEARS (NO SYNTHETICS, PLASTIC, NYLON , TREATED OR OTHER NON NATURAL TYPES WILL BE ALLOWED.) AFTER SETTING BALLED AND BURLAPPED PLANTS IN THE PLANTING PIT, ALL BINDER TWINE SHALL BE CUT AND THE BURLAP REMOVED FROM THE TOP 1/3 OF THE ROOTBALL.

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

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

24. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.

25. ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS PER SPECIFICATIONS.

26. 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.

27. THE QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE SOLELY FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE QUANTITIES SHOWN IN THE PLANT SCHEDULE WITH THE QUANTITIES SHOWN ON THE PLANTING PLAN. ALL DIFFERENCES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. CONTRACTOR IS RESPONSIBLE TO INSTALL THE PLANT MATERIAL QUANTITIES THAT ARE SHOWN IN THE LANDSCAPE PLANS.

28. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WEEDING, WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL FINAL ACCEPTANCE OF THE PROJECT.

29. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL AS OUTLINED IN GEORGIA DOT SPECIFICATIONS. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE, DURING, AND AT THE END OF THE GUARANTEE PERIOD AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

30. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL MATERIAL PRIOR TO INSTALLATION.

31. 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.

32. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO FINAL ACCEPTANCE OF THE PROJECT AND DURING THE COURSE OF THE TWO YEAR GUARANTEE PERIOD) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUALITY AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS

33. STANDARDS FOR TRANSPLANTING SHALL BE IN KEEPING WITH THOSE ESTABLISHED IN THE INTERNATIONAL SOCIETY OF ARBORICULTURE PUBLICATION, *TREE AND SHRUB TRANSPLANTING MANUAL* OR SIMILAR PUBLICATION. REFERENCE THE AMERICAN ASSOCIATION OF NURSERYMEN PUBLICATION *AMERICAN STANDARD FOR NURSERY STOCK* (ANSI Z60, 1973) FOR PLANT MATERIAL QUALITY SPECIFICATIONS. REFERENCE THE *MANUAL OF WOODY LANDSCAPE PLANTS* (MICHAEL DIRR, 1983, CASTLE BOOKS) OR SIMILAR PUBLICATION FOR INFORMATION ON TREE SPECIES SITE REQUIREMENTS. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE FEDERAL, STATE, AND COUNTY LAWS REQUIRING INSPECTION FOR DISEASE AND INSECT CONTROL. ONE PLANT OF EACH SPECIES SHALL BE PROVIDED FOR THE OWNER'S REVIEW WITH THE NAME AND SIZE OF THE PLANT. BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES.

34. THE CONTRACTOR SHALL REMOVE ALL DEAD WOOD, SUCKERS, AND ALL BROKEN OR DAMAGED BRANCHES IN ACCORDANCE WITH THE ANLA IN ORDER TO PRESERVE THE NATURAL CHARACTER OF THE TREE AND SHRUB.

35. THE EROSION CONTROL MATTING MATERIAL SHALL BE LOOSE JUTE TYPE MATERIAL ON ALL SLOPES GREATER THAN 3:1 OR AS NOTED ON THE EROSION CONTROL PLANS. PER THE MANUFACTURER, AREAS RECEIVING THE DETENTION BASIN SEED MIX, THE MATTING MATERIAL SHALL BE APPLIED AND SECURED DIRECTLY TO THE SOIL FIRST, THEN HYDROSEEDED OVER WITH DETENTION BASIN SEED MIX. FOR AREAS THAT ARE NATIVE GRASS SEED MIX, THE AREA SHALL BE HYDROSEEDED FIRST, THEN MATTING MATERIAL SHALL BE APPLIED AND SECURED TO THE SOIL. REFER TO THE LANDSCAPE PLANS FOR SEED AREA TYPES.

36. ALL LAWN AREAS, LANDSCAPE BEDS, AND PLANTING PITS SHALL BE FREE OF ROCKS, GRAVEL, AND OTHER DEBRIS. ALL PLANTING PITS SHALL BE PREPARED IN ACCORDANCE WITH THE PLANTING DETAILS.

37. NO SUBSTITUTION OF PLANT SPECIES OR VARIETY SHALL BE MADE WITHOUT PRIOR WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.

38. ALL SHRUB, GROUNDCOVER, AND SEASONAL COLOR BED AREAS SHALL BE TOP DRESSED WITH A MINIMUM OF 4" OF DYED DARK BROWN DOUBLE SHREDDED HARDWOOD BARK MULCH. THE MULCH SHALL BE FREE FROM MOLD, STICKS, CONES, WEEDS AND OTHER DEBRIS. COMPACTION OF THE MULCH SHALL OCCUR NATURALLY OVER A TWO WEEK PERIOD DURING WHICH AT LEAST ONE SIGNIFICANT RAINFALL HAS OCCURRED. ADDITIONAL MULCH SHALL BE PLACED IN ORDER TO MAINTAIN THE MINIMUM DEPTH UNTIL DATE OF FINAL ACCEPTANCE AND APPROVED BY OWNER.

39. FERTILIZER APPLICATION AMOUNTS AND SOIL PREPARATION DESCRIBED IN THE PLANT SCHEDULE SHALL BE STRICTLY FOLLOWED.

40. SPRAY TREES AND SHRUBS WITH ANTI-DESICCANT, PRIOR TO TRANSPORTING AND TRANSPLANTING IF FOLIAGE IS PRESENT. ALL PLANT MATERIAL MUST BE PROTECTED DURING SHIPMENT FROM WIND BY A TARPAULIN.

41. ALL PLANT MATERIALS SHALL BE PLANTED AS PER THE PLANTING DETAILS OR THE PLANTINGS NOTES.

42. ALL EXISTING TURF AND VEGETATION SHALL BE STRIPPED AND REMOVED PRIOR TO THE INSTALLATION OF ANY TURF OR PLANT MATERIAL.

43. BACKFILL MIXTURE FOR ALL AREAS SHALL CONTAIN 1 / 3 BY VOLUME OF AMENDMENT GRADE, FINELY GROUND AND FULLY COMPOSTED PINE OR HARDWOOD BARK. AMENDMENT SHALL BE MIXED THOROUGHLY WITH THE ENTIRE VOLUME OF GOOD FRIABLE SOIL REMOVED FROM THE PLANTING PIT. THIS MIXTURE SHALL BE USED TO BACKFILL AROUND THE ROOTBALL.

LANDSCAPE PLANTING NOTES CONTINUED:

44. ALL PLANT MATERIAL SHALL BE PROPERLY WATERED IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED AT A RATE THAT WILL COMPLETELY SATURATE THE ENTIRE ROOTBALL REGARDLESS OF WEATHER CONDITIONS. IF THE HEIGHT OF THE ROOTBALL IS 24", THEN THE PLANT SHALL BE WATERED TO A DEPTH OF 24",

45. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT, AT ANY TIME UNTIL THE END OF THE GUARANTEE PERIOD, ANY AND/OR ALL PLANT MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS AS SET FORTH HERE IN AND IN THE PLANT SCHEDULE.

46. ALL DISTURBED AREAS SHALL BE SEEDED UNLESS INDICATED OTHERWISE ON THE PLANS. CONTRACTOR IS TO PROVIDE A VIGOROUS STAND OF TURF, FREE FROM DISEASE AND / OR WEEDS. REFER TO PLANT SCHEDULE AND SPECIFICATIONS FOR SOD, SEED, AND WILDFLOWER PLANTING.

47. ALL SLOPES THAT ARE GREATER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL FABRIC PRIOR TO PLANTING. EROSION CONTROL FABRIC SHALL BE OF THE TYPE THAT DECOMPOSES AFTER 18 MONTHS TO 2 YEARS.

48. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. BEFORE INSTALLATION, THE CONTRACTOR IS TO NOTIFY THE OWNER'S REPRESENTATIVE FOR INSPECTION AFTER THE LAYOUT IS COMPLETE. FIELD VERIFY PLANT LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF ANY PLANT MATERIAL. ANY PLANT MATERIAL INSTALLED PRIOR TO THE OWNER'S REPRESENTATIVE'S APPROVAL WILL BE SUBJECT TO ADJUSTMENT/RELOCATION AT THE LANDSCAPE CONTRACTOR'S EXPENSE.

49. CONTRACTOR TO PROVIDE MANUAL AND/OR TEMPORARY WATERING METHODS AND A SCHEDULE PRIOR TO PLANTING, SEEDING, AND SODDING (WATER TRUCK, ETC...) FOR ALL TREES, PLANT MATERIAL, AND GRASS/TURF AREAS UNTIL THE END OF THE GUARANTEED / MAINTENANCE PERIOD OR FOR TWO YEARS (WHICH EVER IS LONGER) UNTIL TREE ROOT ESTABLISHMENT.

50. DO NOT SCALE FROM DRAWINGS.

51. PLANT QUALITY: ALL PLANTS SHALL BE SOUND, FREE OF PLANT DISEASE OR PESTS AND SHALL HAVE A HEALTHY, NORMAL ROOT SYSTEM FREE OF GIRDLING ROOTS. TREES ARE TO BE PLANTED THE APPROPRIATE DEPTH, EXPOSING THE ROOT FLARE. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT AT ANY TIME, AND/OR ALL PLANT MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS AS SET FORTH IN THE PLANTING SCHEDULE.

52. INSTALLED TREES MUST BE ALLOWED TO GROW TO THEIR NATURAL SIZE AND SHAPE AND NOT BE PRUNED IN CONFLICT WITH ANSI A300 STANDARDS (NO TOPPING, LIMBING UP, LION TAILING, INCLUDING NO TOPPING OF CRAPE MYRTLES, ETC.).

53. PARKING LOT ISLANDS, PENINSULAS AND MEDIANS MUST HAVE CLEAN, CULTIVATED SOIL AS SPECIFIED IN PLANT SCHEDULE. ONE-THIRD NATIVE SUBSOIL IS ACCEPTABLE IN PARKING LOT ISLANDS, PENINSULAS AND MEDIANS IF THE ENTIRE AREA IS AMENDED WITH APPROPRIATE SOIL IMPROVEMENTS AND THOROUGHLY TILLED. OTHERWISE LOAMY TOPSOIL IS REQUIRED.

54. AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE GEORGIA DEPARTMENT OF TRANSPORATION (GDOT) SPECIAL PROVISIONS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- **SPECIAL PROVISION - SECTION 700 GRASSING**
- **SPECIAL PROVISION - SECTION 701 WILDFLOWER SEEDING**
- **SPECIAL PROVISION - SECTION 702 VINE, SHRUB, AND TREE PLANTING**
- **SPECIAL PROVISION - SECTION 754 OUTDOOR FURNITURE (INCLUDES LEANING RAIL, BENCH, BLAST RESISTANT WASTE RECEPTACLE AND BICYCLE RACK)**
- **SPECIAL PROVISION - SECTION 900 PRECAST CONCRETE BOLLARD**
- **SPECIAL PROVISION - SECTION 754 MONUMENT / SCULPTURE - ENTRY MONUMENT SIGNAGE WITH LED LIGHTING**
- **SPECIAL PROVISION - SECTION 708 - PLANT TOPSOIL**
- **SPECIAL PROVISION - SECTION 009 - MISCELLANEOUS CONSTRUCTION - ADVERTISING / MAP CASE DISPLAY**
- **SECTION 711 - TURF REINFORCEMENT MATTING**

THE CONTRACTOR SHALL BE AWARE OF THE REQUIREMENTS ASSOCIATED WITH QUALITY ACCEPTANCE, INSPECTIONS, GUARANTEE, CONTRACTOR WARRANTY, MAINTENANCE, LANDSCAPE MAINTENANCE BOND, AND PAYMENT OF LANDSCAPE PLANT MATERIAL.

55. GEORGIA DOT ENCOURAGES THE USE OF GEORGIA GROWN PRODUCTS FOR RIGHT OF WAY PLANTINGS. THE GEORGIA GROWN PROGRAM IS A MARKETING AND ECONOMIC DEVELOPMENT PROGRAM OF THE GEORGIA DEPARTMENT OF AGRICULTURE. FOR MORE INFORMATION, SEE HTTPS://WWW.GEORGIAGROWN.COM/ OR CALL (404) 656-3680.

56. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR UNDER THE DRIP LINE OF EXISTING TREES IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 001827 PROFESSIONAL LANDSCAPE ARCHITECT 08-26-2021 CHAD L. HAYES

ATKINS
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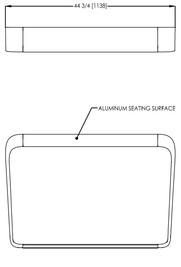
REVISION DATES

8/26/2021		

LANDSCAPE NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		



MANUFACTURER: LANDSCAPE FORMS, INC
MODEL NO: CONNECT - LEANING RAIL 45"
ADDRESS: 7800 E. MICHIGAN AVE.
KALAMAZOO, MI 49048
PHONE: 800.430.6209
WEBSITE: HTTP://WWW.LANDSCAPEFORMS.COM
DESCRIPTION:
6"D X 45"L X 30"H, COLOR TO COORDINATE WITH BUS SHELTERS, METALLIC SILVER, ALUMINUM, SURFACE MOUNT, STAINLESS STEEL HARDWARE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS

OR

MANUFACTURER: KEYSTONE RIDGE DESIGNS, INC.
MODEL NO: PENN - 4' LENGTH, SURFACE MOUNT
PHONE: 724.284.1213
WEBSITE: HTTP://WWW.KEYSTONERIDGEDESIGNS.COM

OR

MANUFACTURER: BRASCO INTERNATIONAL, INC.
MODEL NO: ECLIPSE PERF - LEANING RAIL
PHONE: 313.393.0393
WEBSITE: HTTP://WWW.BRASCO.COM

OR APPROVED EQUAL

1 LEANING RAIL DETAIL
N.T.S.

MANUFACTURER: LANDSCAPE FORMS, INC
MODEL NO: STAY BENCH SA 477
ADDRESS: 7800 E. MICHIGAN AVE.
KALAMAZOO, MI 49048
PHONE: 800.430.6209
WEBSITE: HTTP://WWW.LANDSCAPEFORMS.COM
DESCRIPTION: 23"D X 69"L X 32"H, COLOR TO COORDINATE WITH BUS SHELTERS, METALLIC SILVER, BACK AND SEAT PERFORATED ALUMINUM, SUPPORTED BY ALUMINUM EXTRUSIONS, SURFACE MOUNT, STAINLESS STEEL HARDWARE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS

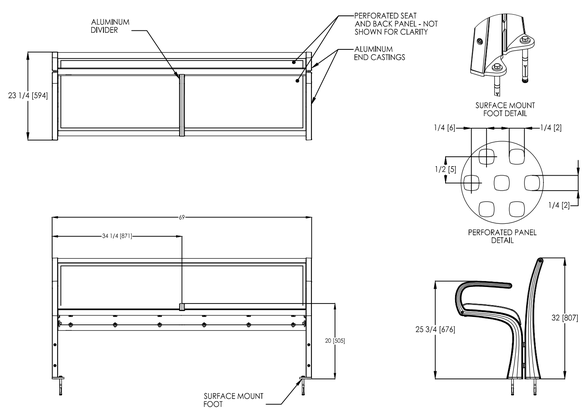
OR

MANUFACTURER: DUMOR SITE FURNISHINGS
MODEL NO: BENCH 195 WITH ARMREST, STEEL, POWDER COATED
PHONE: 800.598.4018
WEBSITE: HTTP://DUMOR.COM

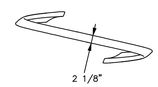
OR

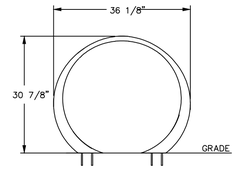
MANUFACTURER: THOMAS STEELE
MODEL NO: WINGRA 6' BENCH, PERFORATED METAL WITH END AND INTERMEDITE ARM RESTS, POWDER COATED STEEL, COLOR-STORM METALIC
PHONE: 608.849.1080
WEBSITE: HTTP://WWW.THOMAS-STEELE.COM

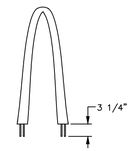
OR APPROVED EQUAL



2 BENCH DETAIL
N.T.S.







MANUFACTURER: LANDSCAPE FORMS, INC
MODEL NO: LOOP
ADDRESS: 7800 E. MICHIGAN AVE.
KALAMAZOO, MI 49048
PHONE: 800.430.6209
WEBSITE: HTTP://WWW.LANDSCAPEFORMS.COM
DESCRIPTION:
14"D X 36"L X 31"H, COLOR TO COORDINATE WITH BUS SHELTERS, SILVER OR MERCURY, CAST ALUMINUM, EMBEDDED MOUNT, STAINLESS STEEL HARDWARE, PLACE BIKE RACKS 30" APART (MIN.) AND 24" FROM ANY WALL (MIN.) INSTALL PER MANUFACTURER'S RECOMMENDATIONS

OR

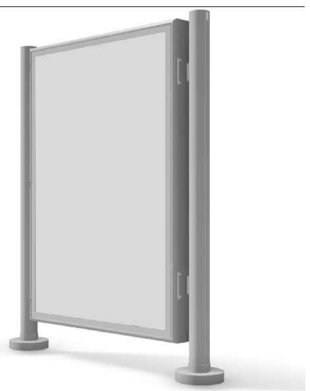
MANUFACTURER: VICTOR STANLEY
MODEL NO: BRHS-101, STEEL, POWDER COATED, SURFACE MOUNTED
PHONE: 1.800.368.2573
WEBSITE: HTTP://WWW.VICTORSTANLEY.COM

OR

MANUFACTURER: BRASCO INTERNATIONAL, INC.
MODEL NO: ASPEN - BIKE RACK, ALUMINUM, POWDER-COATED, SURFACE MOUNTED
PHONE: 313.393.0393
WEBSITE: HTTP://WWW.BRASCO.COM

OR APPROVED EQUAL

3 BIKE RACK DETAIL
N.T.S.



MANUFACTURER: BRASCO INTERNATIONAL, INC.
MODEL NO: ECLIPSE FREESTANDING ADVERTISING DISPLAY
ADDRESS: 32400 INDUSTRIAL DRIVE
MADISON HEIGHTS, MI 48071
PHONE: 313.393.0393
WEBSITE: HTTP://WWW.BRASCO.COM
DESCRIPTION:
4'W X 6'T DISPLAY CASE, 4.5" ROUND COLUMNS.
UNLIT, COLOR TO COORDINATE WITH BUS SHELTERS, SURFACE MOUNT, STAINLESS STEEL HARDWARE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS

NOTE: CONTRACTOR SHALL PROVIDE THE OPTIONAL ITEMS AS PART OF THE UNIT, INCLUDING ESCUTCHEON COVERS AND AC POWERED 28W LED ILLUMINATION.

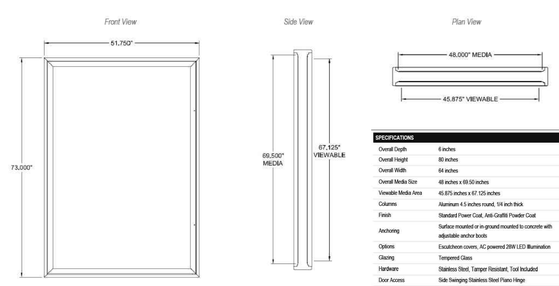
OR

MANUFACTURER: TOLAR MANUFACTURING
MODEL NO: SFTD-06 TRANSIT DISPLAY
POWDER-COATED, SURFACE MOUNTED
PHONE: 800.339.6165
WEBSITE: HTTP://WWW.TOLARMFG.COM

OR

MANUFACTURER: LMG LUCID MGMT GROUP
MODEL NO: ADVERTISING DISPLAY/MAP CASE (CITY LINE STANDARD)
PHONE: 1.855.335.8243
WEBSITE: HTTP://WWW.LUCIDMANAGEMENTGROUPO.COM

OR APPROVED EQUAL

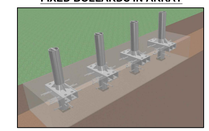


SPECIFICATIONS	
Overall Depth	6 inches
Overall Height	80 inches
Overall Width	54 inches
Overall Media Size	48 inches x 69.50 inches
Viewable Media Area	45.875 inches x 67.125 inches
Columns	Aluminum 4.5 inches round, 1/4 inch thick
Finish	Standard Flower Coat, Anti-Graffiti Powder Coat
Anchoring	Surface mounted or in-ground mounted to concrete with adjustable anchor bolts
Options	Escutcheon covers, AC powered 28W LED Illumination
Glazing	Tempered Glass
Hardware	Stainless Steel, Tamper Resistant, Tool Included
Door Access	Side Swinging Stainless Steel Piano Hinge
Media Attachment	Magnetic fliptops. Holds up to 12mil Thickness at 3.5 lbs.

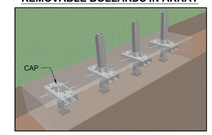
Ordering matrix: AB-EC-AC (AC Illuminated), AB-EC-DC (DC Illuminated), AB-EC-UL (Unlit)

4 DISPLAY/ADVERTISING CASE
N.T.S.

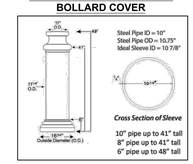
FIXED BOLLARDS IN ARRAY

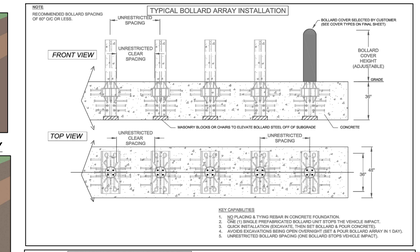


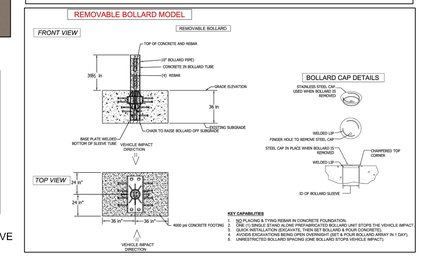
REMOVABLE BOLLARDS IN ARRAY



10-INCH PAWN DECORATIVE BOLLARD COVER







MANUFACTURER: IDEALSHIELD
MODEL NO: ASTM K12 CRASH BOLLARD AND DECORATIVE SLEEVE - 10" PAWN DECORATIVE BOLLARD (REMOVABLE AND FIXED)
ADDRESS: 2525 CLARK ST. DETROIT, MI 48209
PHONE: 1.866.825.8659
WEBSITE: HTTP://WWW.IDEALSHIELD.COM
DESCRIPTION:
BOLLARD SHALL BE ASTM K12 CRASH BOLLARD (APPROVED BY THE DOD AND TESTED FOR A 16,500 LB. VEHICLE AT 50 MPH. A MINIMUM OF TWO OR THREE BOLLARDS SHALL BE REMOVABLE (NOT FIXED) TO ALLOW FOR VEHICULAR ACCESS TO THE PLATFORM (BUS PLAZA). COLORS TO COORDINATE WITH THE OTHER SITE FURNISHINGS AND ARCHITECTURE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

OR APPROVED EQUAL

NOTE:

1. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FROM A LICENSED STRUCTURAL ENGINEER IN THE STATE OF GEORGIA THAT INCLUDE FOOTING DESIGN/ ANCHORING ATTACHMENT DETAILS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
2. CONTRACTOR SHALL COORDINATE WITH OWNER (WITH WRITTEN APPROVAL) REGARDING LOCATION FOR REMOVABLE BOLLARDS PRIOR TO ORDERING AND CONSTRUCTION.

5 BOLLARD DETAIL
N.T.S.

RAIN LID / BONNET LID (LID TO BE LOCKABLE AND LID COLOR TO MATCH STAINLESS STEEL RECEPTACLE. (LID IMAGE TO LEFT DOES NOT REPRESENT COLOR TO BE USED)

MANUFACTURER: FFI TACTICAL (ENERGETICS TECHNOLOGY LTD.)
MODEL NO: TC 95 BLAST RESISTANT LITTER BIN
ADDRESS: 1601 3RD STREET SOUTH, ST. PETERSBURG, FLORIDA 33701
PHONE: 1.727.490.3609
WEBSITE: WWW.FFITACTICAL.COM (HTTP://WWW.ENERGETICS-TECHNOLOGY.COM)
DESCRIPTION:
LARGE CAPACITY, SELF-DRAINING, EASILY CLEANED, USES STANDARD BIN BAGS, BLAST DISINTEGRATING AND FIRE RETARDANT GRP LID, COLOR TO COORDINATE WITH BUS SHELTERS, PERFORATED STAINLESS STEEL, BLAST RESISTANT PER HOMELAND SECURITY RECOMMENDATIONS, SURFACE BOLT DOWN MOUNT, STAINLESS STEEL HARDWARE,
INSTALL PER MANUFACTURER'S RECOMMENDATIONS
NOTE: CONTRACTOR SHALL PROVIDE MANUFACTURER'S RAIN LID / BONNET LID FOR EACH TRASH RECEPTACLE. COLOR TO BE APPROVED BY OWNER'S REP. AND MATCH STAINLESS STEEL RECEPTACLE.
OR
MANUFACTURER: TRASHCANS UNLIMITED, LLC (MISTRAL SECURITY)
MODEL NO: 40 GALLON BLAST RESISTANT TRASH CAN STAINLESS STEEL (PROTECTION LEVEL 3)
PHONE: 301.913.9366
WEBSITE: HTTP://WWW.MISTRALSECURITYINC.COM

OR
MANUFACTURER:NABCO
MODEL NO: BLAST MITIGATING TRASH RECEPTACLE
PHONE: 724.746.9617
WEBSITE: HTTP://WWW.NABCOINC.COM

OR APPROVED EQUAL

SPECIFICATIONS	
Total weight	
395 kg	871 lbs
Exterior dimensions	
Diameter	700 mm / 28"
Height	835 mm / 33 "
Interior dimensions	
Volume	95 liter / 21 gal

6 BLAST RESISTANT TRASH RECEPTACLE
N.T.S.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT No. 001827 08-26-2021 CHAD L. HAYES

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

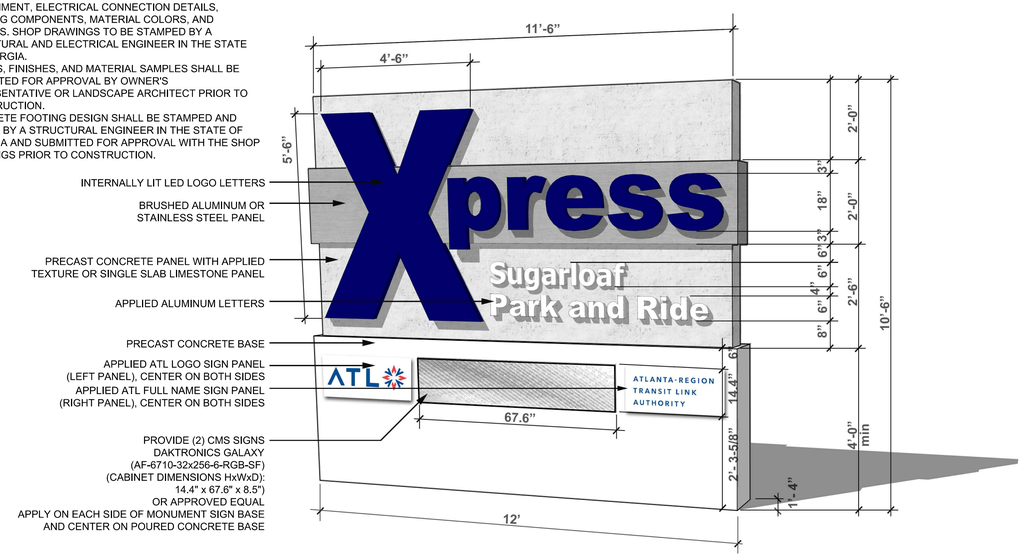
REVISION DATES		
8/26/2021		

SITE FURNISHING DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

NOTE:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE: FOOTING SIZE, CONCRETE PSI, PANEL CONNECTION DETAILS, CONDUIT, WIRE, LETTERING ATTACHMENT, ELECTRICAL CONNECTION DETAILS, LIGHTING COMPONENTS, MATERIAL COLORS, AND FINISHES. SHOP DRAWINGS TO BE STAMPED BY A STRUCTURAL AND ELECTRICAL ENGINEER IN THE STATE OF GEORGIA.
2. COLORS, FINISHES, AND MATERIAL SAMPLES SHALL BE SUBMITTED FOR APPROVAL BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
3. CONCRETE FOOTING DESIGN SHALL BE STAMPED AND SEALED BY A STRUCTURAL ENGINEER IN THE STATE OF GEORGIA AND SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS PRIOR TO CONSTRUCTION.



1 ENTRY MONUMENT SIGN DETAIL (DESIGN INTENT ONLY)
N.T.S.

MANUFACTURER: GEORGIA PRECAST SOLUTIONS, LLC
MODEL NO: B2 (OR APPROVED EQUAL)
ADDRESS: 1324 SOUTHERN ROAD
MORROW, GA 30260
PHONE: 770.960.6704
WEBSITE: HTTP://WWW.GEORGIAPRECAST.COM
DESCRIPTION:
12"DIA. X 35"H, PRECAST CONCRETE, COLOR TO COORDINATE WITH SITE FURNISHINGS AND ARCHITECTURE, INSTALL PER PLAN LOCATION AND PER MANUFACTURER'S RECOMMENDATIONS

OR

MANUFACTURER: PMC (PETERSON MANUFACTURING COMPANY, INC.) MODEL NO: AL BOLLARD SERIES (AL-1, 12" X 30")
PHONE: 712.263.2442
WEBSITE: HTTP://WWW.PETERSENMFG.COM

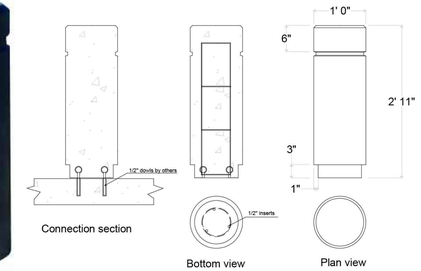
OR

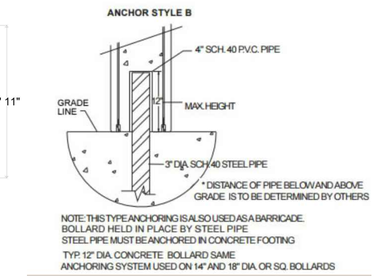
MANUFACTURER: BELSON OUTDOORS, LLC
MODEL NO: PRECAST CONCRETE BOLLARD TF6020 (12" DIA. X 36" HEIGHT CYLINDER)
PHONE:1.800.323.5664
WEBSITE: HTTP://WWW.BELSON.COM

OR APPROVED EQUAL

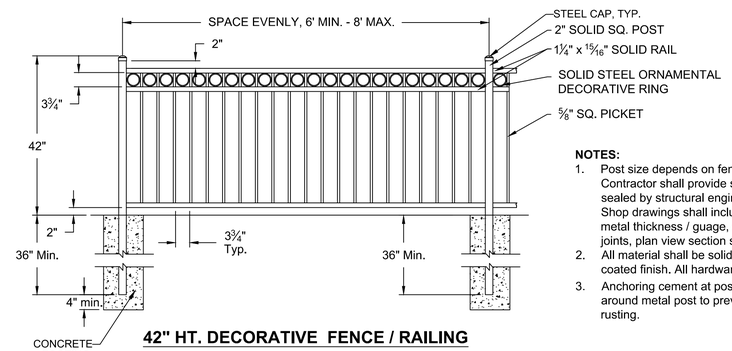
NOTE:

CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FROM A LICENSED STRUCTURAL ENGINEER IN THE STATE OF GEORGIA THAT INCLUDE FOOTING DESIGN/ ANCHORING ATTACHMENT DETAILS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ORDERING.



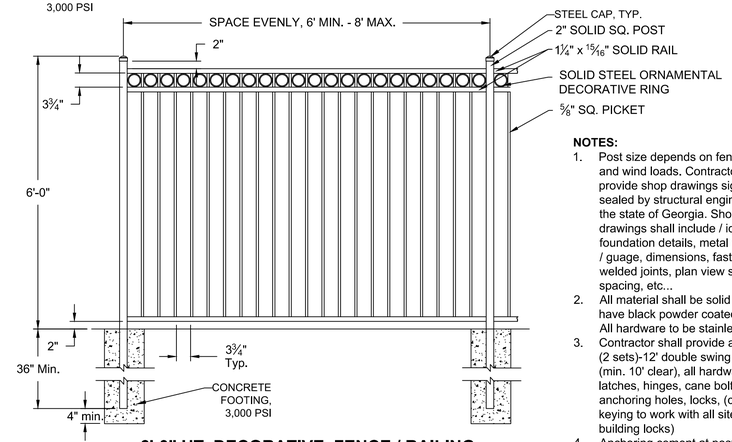


3 PRECAST CONCRETE BOLLARD DETAIL
N.T.S.



42" HT. DECORATIVE FENCE / RAILING

NOTES:
1. Post size depends on fence height and wind loads. Contractor shall provide shop drawings signed and sealed by structural engineer in the state of Georgia. Shop drawings shall include / identify foundation details, metal thickness / guage, dimensions, fasteners, welded joints, plan view section spacing, etc...
2. All material shall be solid steel and have black powder coated finish. All hardware to be stainless steel.
3. Anchoring cement at posts shall be slightly sloped (1/4") all around metal post to prevent water pooling and potential rusting.



6'-0" HT. DECORATIVE FENCE / RAILING
(INSTALL ONLY AROUND ELECTRICAL TRANSFORMER)

NOTES:
1. Post size depends on fence height and wind loads. Contractor shall provide shop drawings signed and sealed by structural engineer in the state of Georgia. Shop drawings shall include / identify foundation details, metal thickness / guage, dimensions, fasteners, welded joints, plan view section spacing, etc...
2. All material shall be solid steel and have black powder coated finish. All hardware to be stainless steel.
3. Contractor shall provide and install (2 sets)-12' double swing gates (min. 10' clear), all hardware, latches, hinges, cane bolts, anchoring holes, locks, (coordinate keying to work with all site / building locks)
4. Anchoring cement at posts shall be slightly sloped (1/4") all around metal post to prevent water pooling and potential rusting.

2 DECORATIVE FENCE / RAILING
N.T.S.

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 001827 PROFESSIONAL 08-26-2021 LANDSCAPE ARCHITECT CHAD L. HAYES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

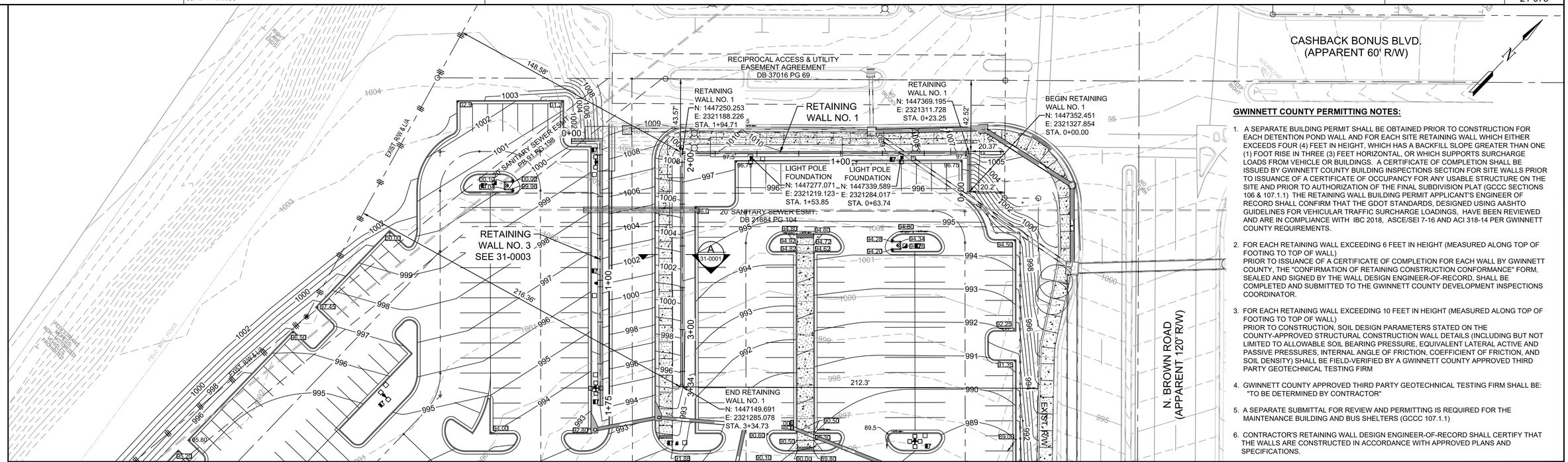
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
8/26/2021		

SITE FURNISHING DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		29-0008
CORRECTED:		DATE:		
VERIFIED:		DATE:		

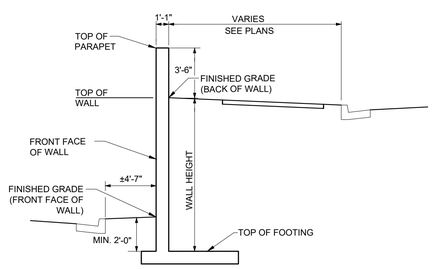


GWINNETT COUNTY PERMITTING NOTES:

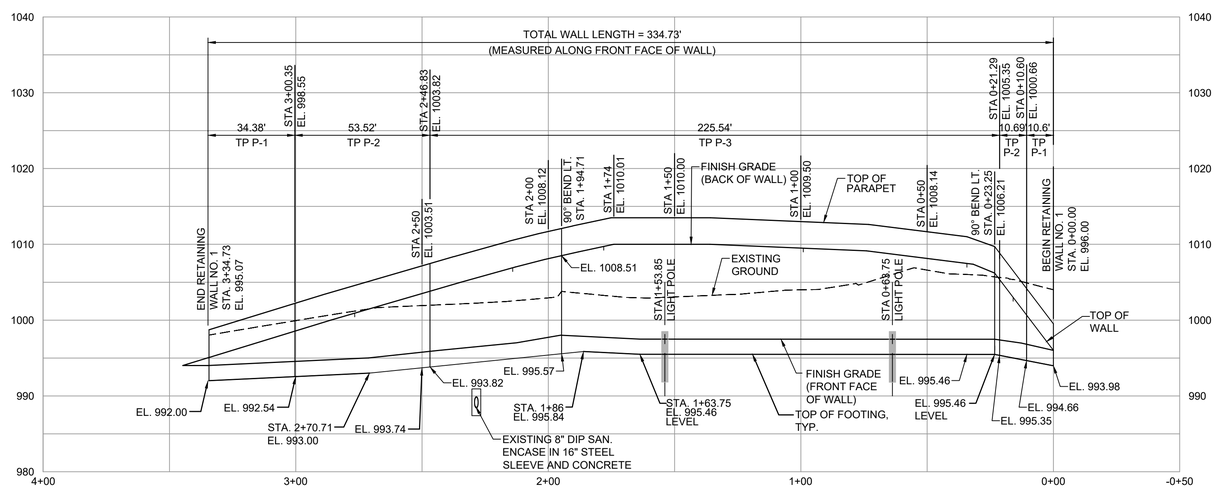
1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR EACH WALL BY GWINNETT COUNTY, THE "CONFIRMATION OF RETAINING CONSTRUCTION CONFORMANCE" FORM, SEALED AND SIGNED BY THE WALL DESIGN ENGINEER-OF-RECORD, SHALL BE COMPLETED AND SUBMITTED TO THE GWINNETT COUNTY DEVELOPMENT INSPECTIONS COORDINATOR.
3. FOR EACH RETAINING WALL EXCEEDING 10 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)
6. CONTRACTOR'S RETAINING WALL DESIGN ENGINEER-OF-RECORD SHALL CERTIFY THAT THE WALLS ARE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949D PARAPET RETAINING WALL TYPES P1, P2, AND P3 (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. SHORING MAY BE REQUIRED CONSISTING OF PILES, LAGGING AND TIE-BACKS, SOIL NAIL WALL SHALL NOT BE USED. THE COST SHALL BE INCLUDED IN THE WALL.
4. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.
5. WALLS SHALL HAVE GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GDOT SPECIFICATIONS. PAINT COLOR TO BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
6. ALL PERMITTING FEES, GEOTECHNICAL FIELD VERIFICATION FEES, GEOTECHNICAL LAB FEES AND OTHER GEOTECHNICAL SERVICES FEES REQUIRED FOR THE WALL BUILDING CERTIFICATION SHALL BE PAID BY THE CONTRACTOR AND CHARGED TO THE PROJECT. THESE COSTS ARE TO BE INCLUDED IN THE GRADING COMPLETE PAY ITEM. THE CONTRACTOR SHALL COORDINATE THE APPLICATIONS FOR ALL NEEDED PERMITS AND CERTIFICATIONS.



SECTION A 31-0001
NO SCALE



RETAINING WALL NO. 1

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 CHARLES CHRISTOPHER KING 08/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

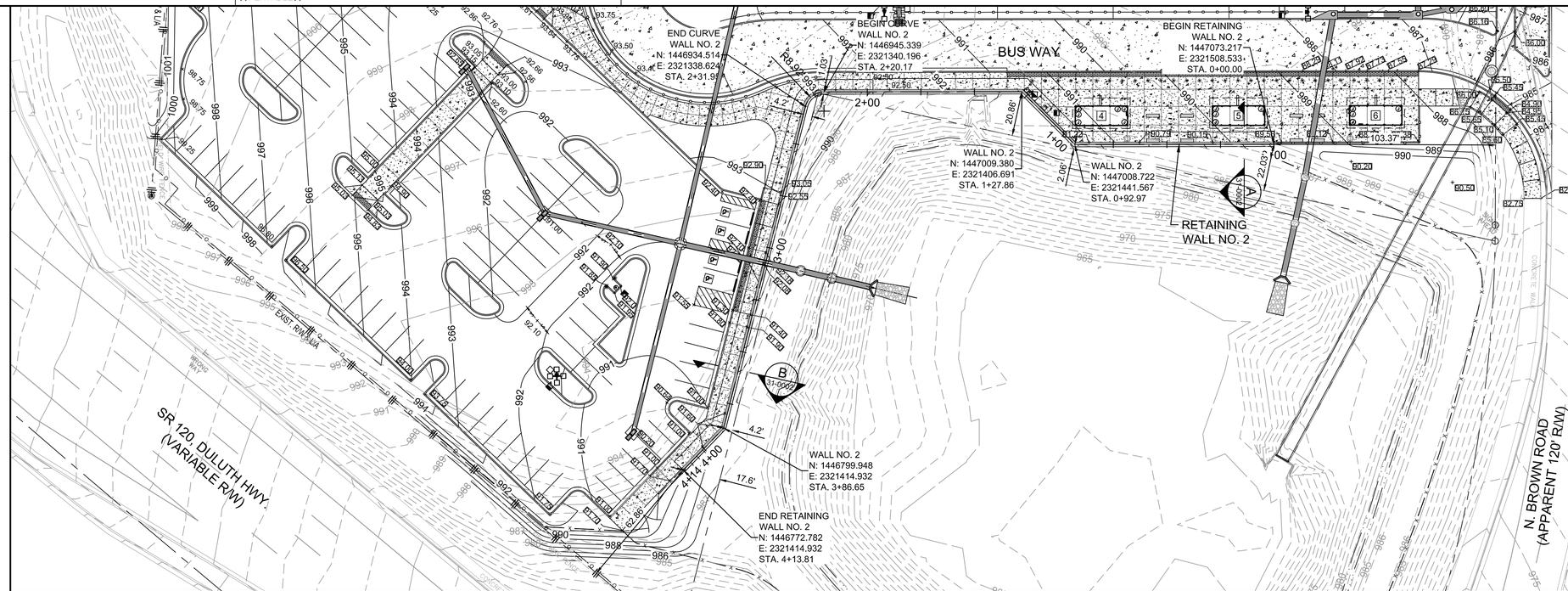
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

RETAINING WALL NO. 1
PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

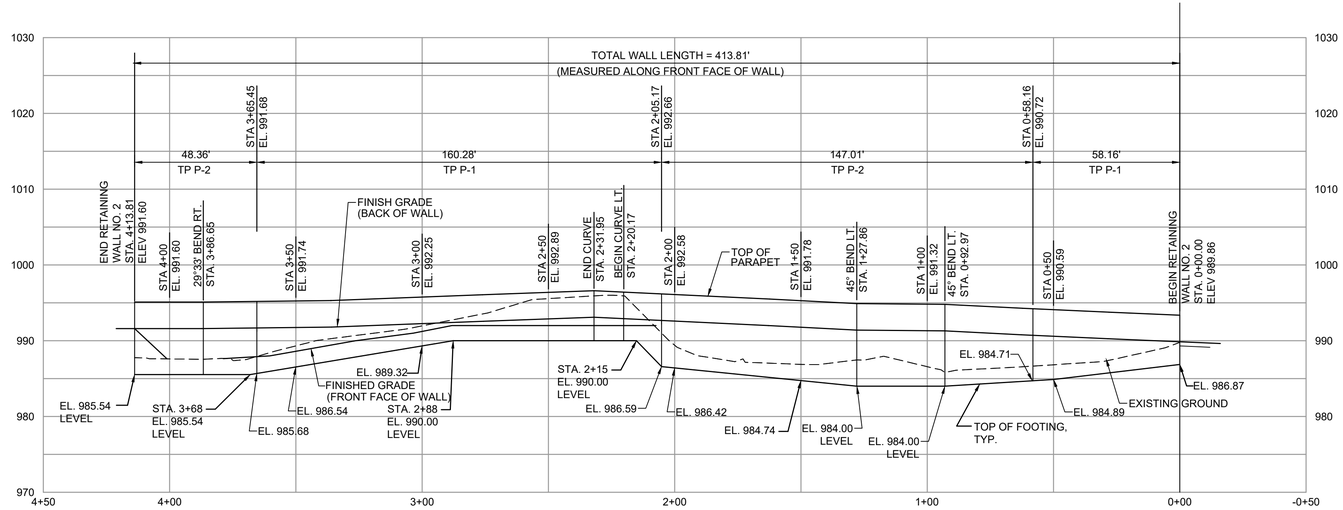


GWINNETT COUNTY PERMITTING NOTES:

1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
   PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR EACH WALL BY GWINNETT COUNTY, THE "CONFIRMATION OF RETAINING CONSTRUCTION CONFORMANCE" FORM, SEALED AND SIGNED BY THE WALL DESIGN ENGINEER-OF-RECORD, SHALL BE COMPLETED AND SUBMITTED TO THE GWINNETT COUNTY DEVELOPMENT INSPECTIONS COORDINATOR.
3. FOR EACH RETAINING WALL EXCEEDING 10 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
   PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)
6. CONTRACTOR'S RETAINING WALL DESIGN ENGINEER-OF-RECORD SHALL CERTIFY THAT THE WALLS ARE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

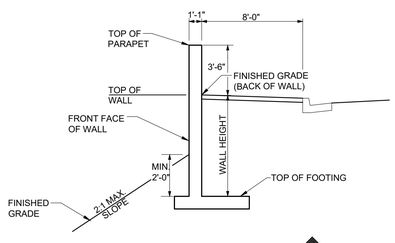
NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949D PARAPET RETAINING WALL TYPES P1, P2, AND P3 (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.
4. WALLS SHALL HAVE GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GDOT SPECIFICATIONS. PAINT COLOR TO BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
5. ALL PERMITTING FEES, GEOTECHNICAL FIELD VERIFICATION FEES, GEOTECHNICAL LAB FEES AND OTHER GEOTECHNICAL SERVICES FEES REQUIRED FOR THE WALL BUILDING CERTIFICATION SHALL BE PAID BY THE CONTRACTOR AND CHARGED TO THE PROJECT. THESE COSTS ARE TO BE INCLUDED IN THE GRADING COMPLETE PAY ITEM. THE CONTRACTOR SHALL COORDINATE THE APPLICATIONS FOR ALL NEEDED PERMITS AND CERTIFICATIONS.

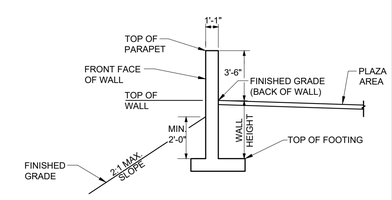


RETAINING WALL NO. 2

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)



SECTION B
NO SCALE
31-0002



SECTION A
NO SCALE
31-0002

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 08/26/2021 CHARLES CHRISTOPHER KING

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

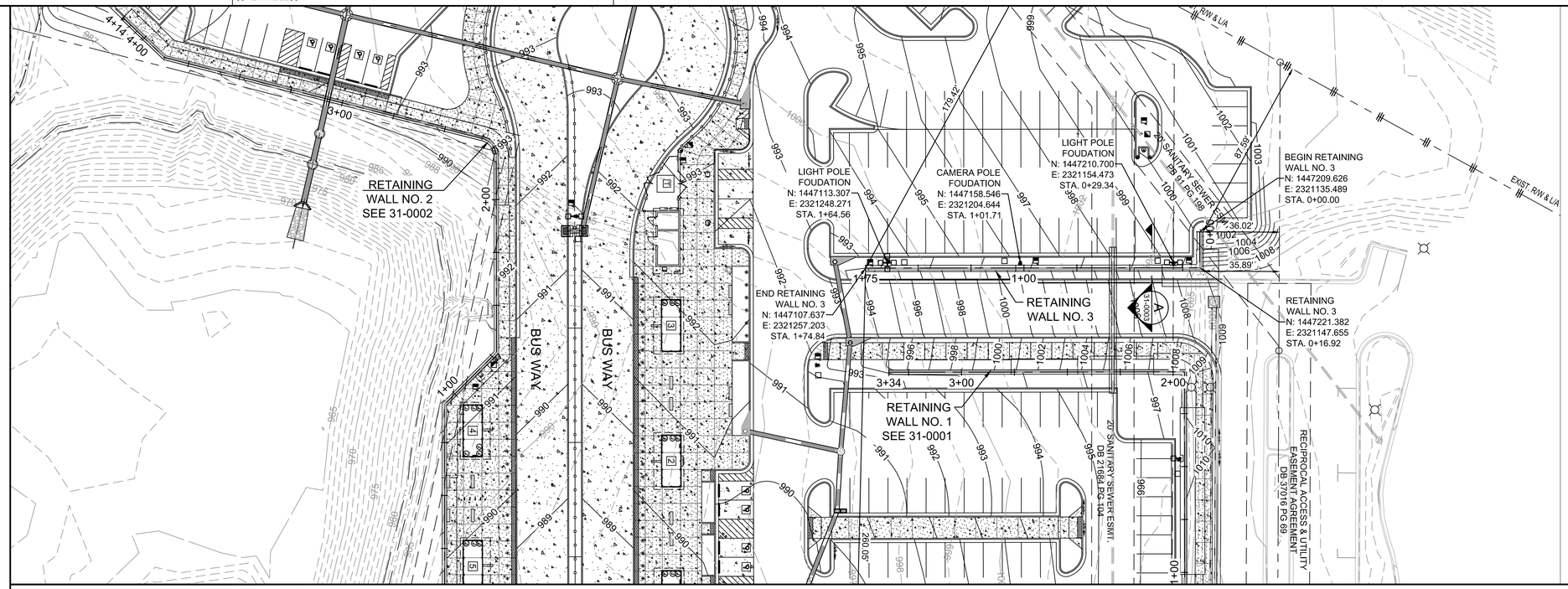
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

RETAINING WALL NO. 2 PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

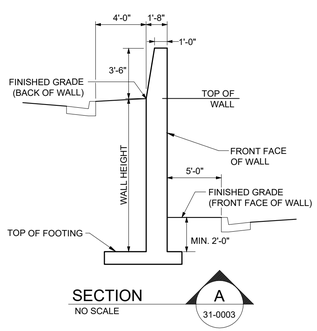


GWINNETT COUNTY PERMITTING NOTES:

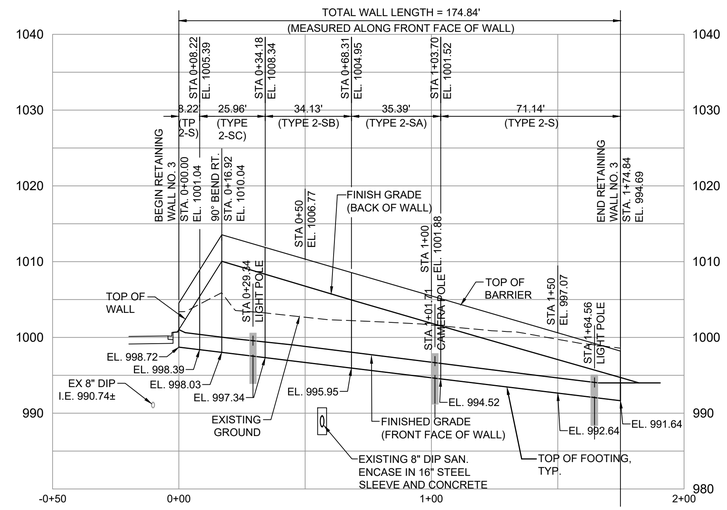
1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL) PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR EACH WALL BY GWINNETT COUNTY, THE "CONFIRMATION OF RETAINING CONSTRUCTION CONFORMANCE" FORM, SEALED AND SIGNED BY THE WALL DESIGN ENGINEER-OF-RECORD, SHALL BE COMPLETED AND SUBMITTED TO THE GWINNETT COUNTY DEVELOPMENT INSPECTIONS COORDINATOR.
3. FOR EACH RETAINING WALL EXCEEDING 10 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL) PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)
6. CONTRACTOR'S RETAINING WALL DESIGN ENGINEER-OF-RECORD SHALL CERTIFY THAT THE WALLS ARE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949B CONCRETE SIDE BARRIER TYPES 2-S, 2-SA, 2-SB AND 2-SC (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.
4. WALLS SHALL HAVE GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GDOT SPECIFICATIONS. PAINT COLOR TO BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
5. ALL PERMITTING FEES, GEOTECHNICAL FIELD VERIFICATION FEES, GEOTECHNICAL LAB FEES AND OTHER GEOTECHNICAL SERVICES FEES REQUIRED FOR THE WALL BUILDING CERTIFICATION SHALL BE PAID BY THE CONTRACTOR AND CHARGED TO THE PROJECT. THESE COSTS ARE TO BE INCLUDED IN THE GRADING COMPLETE PAY ITEM. THE CONTRACTOR SHALL COORDINATE THE APPLICATIONS FOR ALL NEEDED PERMITS AND CERTIFICATIONS.



SECTION A 31-0003
NO SCALE



RETAINING WALL NO 3

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 030458 PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING 08/26/2021

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

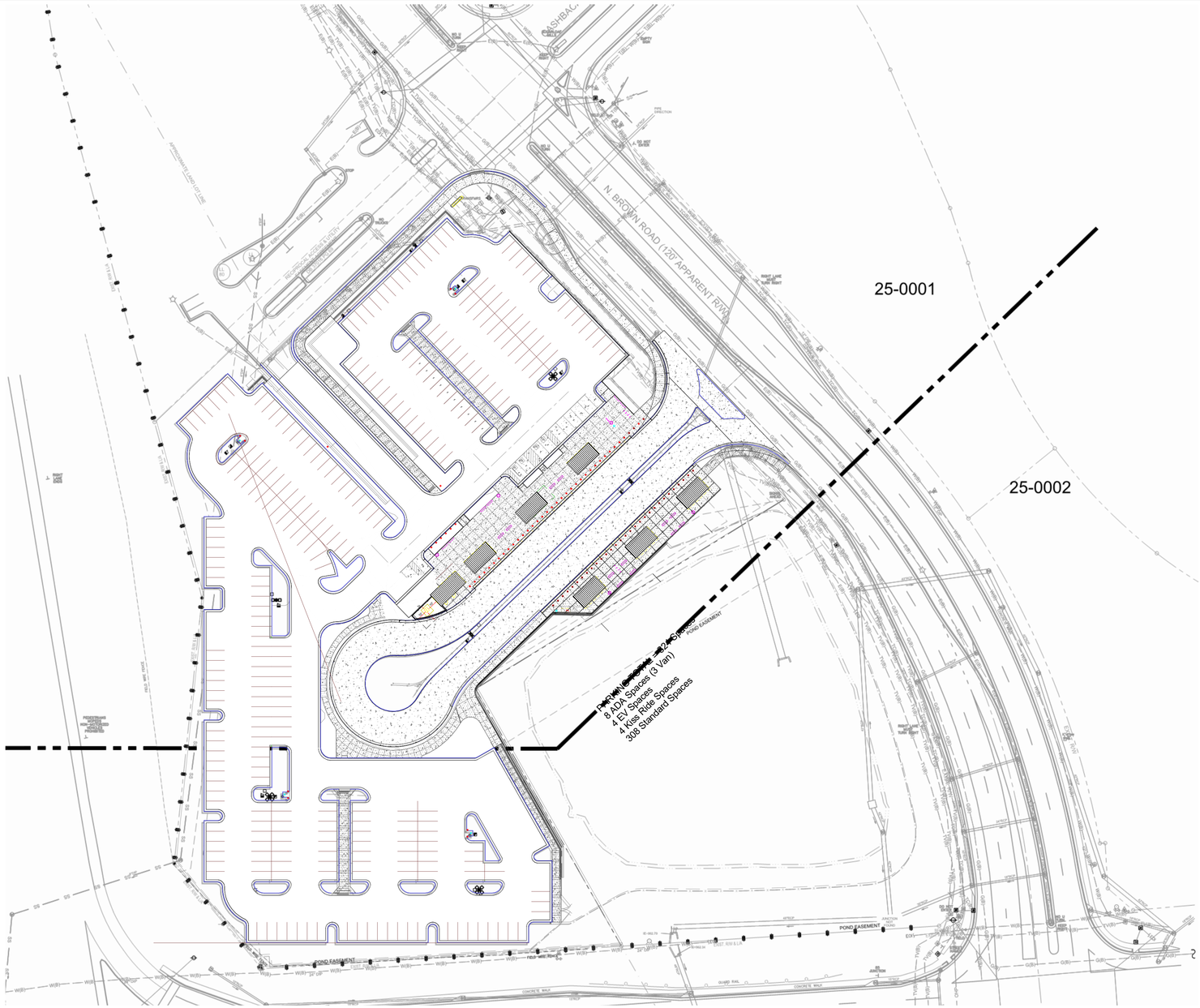
REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

RETAINING WALL NO. 3 PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DATE$$$	TIME$$$	$PRF8$	DGN	P.I. No.
$USER$		$$PENTABLE$$		21-073



1 SITE TRUE NORTH
1" = 50'-0"

TRUE NORTH

CASE NUMBER : 2020-00316

DO NOT SCALE

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

STATE OF GEORGIA
CERTIFICATE NO. 025893
REGISTERED ARCHITECT

Engineer's Seal Here
06/30/21

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

OVERALL SITE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

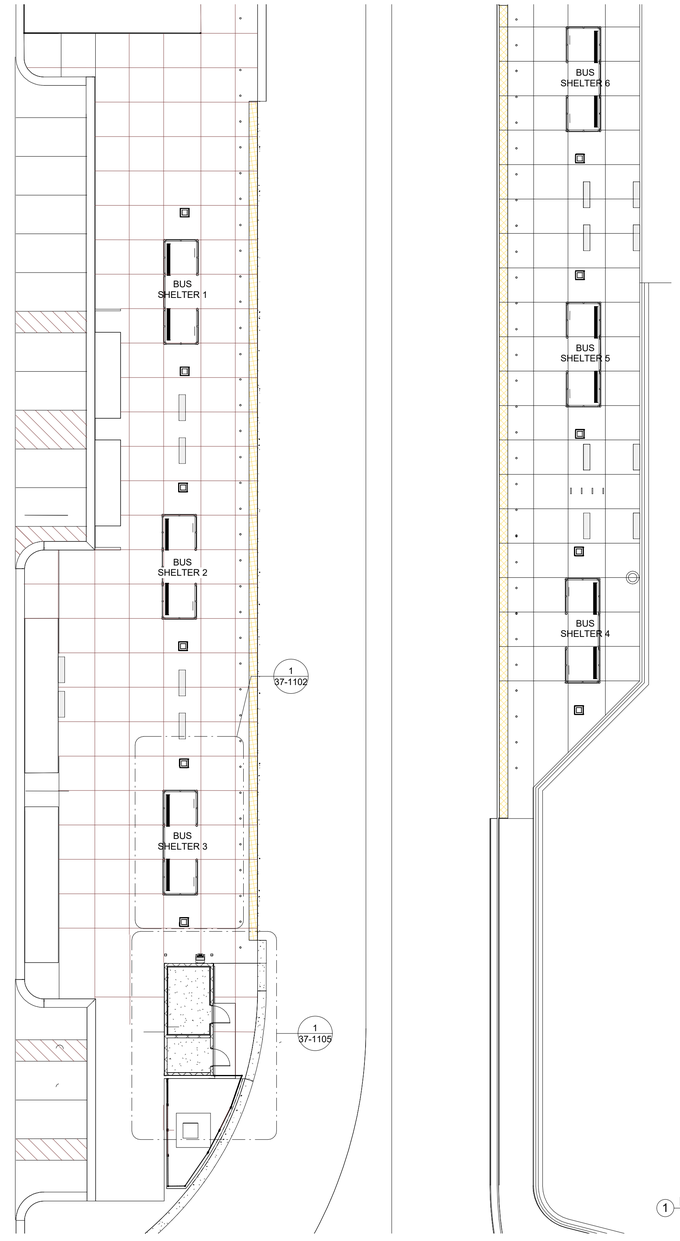
DRAWING No.
37-1100

10/23/2015 GPLN

DATE$$$ TIME$$$ $PRF8$ DGN

$USER$ $$PENTABLE$$

P.I. No. 21-073



1 Level 1 PROJECT NORTH - Callout 1
1/16" = 1'-0"

PROJECT NORTH

CASE NUMBER : 2020-00316

DO NOT SCALE

10/23/2015 GPLN

STATE OF GEORGIA
JEFFREY NEIL WARRINGTON
06/30/21
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

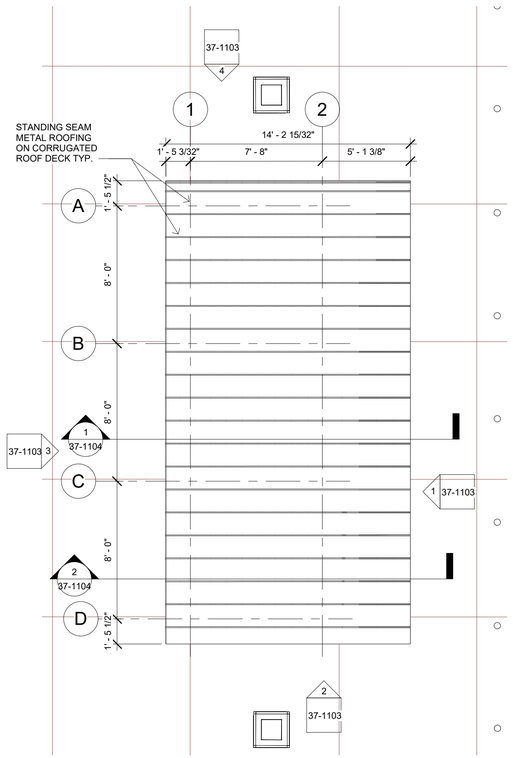
ENLARGED SITE AT BUILDINGS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

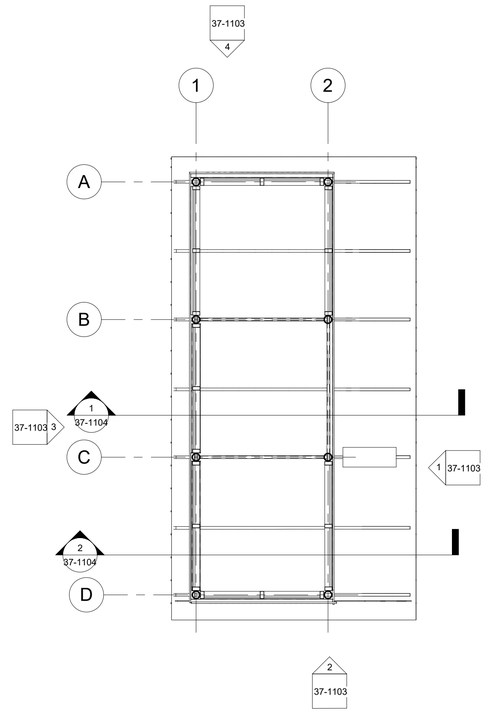
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
37-1101

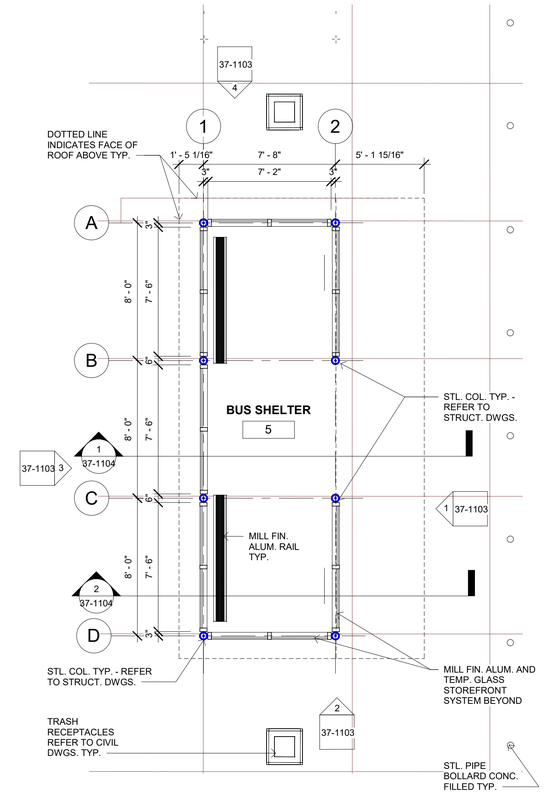
DATE$$$ TIME$$$ $PRF8$ DGN P.I. No.
$USER$ $$PENTABLE$$ 21-073



Level 4 -LEVEL 1 BUS SHELTER ROOF PLAN
3 1/4" = 1'-0"



LEVEL 1 BUS SHELTER REFLECTED CLG PLAN
2 1/4" = 1'-0"



Level 1 BUS SHELTER FLOOR PLAN
1 1/4" = 1'-0"

CASE NUMBER : 2020-00316

PROJECT NORTH

"Cost for payment of building permitting to be included in grading complete."

DO NOT SCALE

Engineer's Seal Here

STATE OF GEORGIA
06/30/21
CERTIFICATE NO. 025850
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

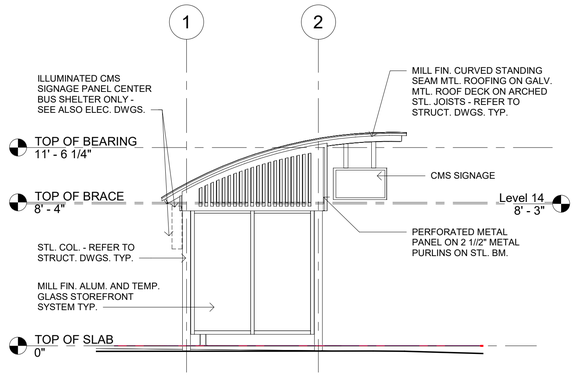
BUS SHELTER FLOOR PLAN. REF. CLG PLAN, AND ROOF PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

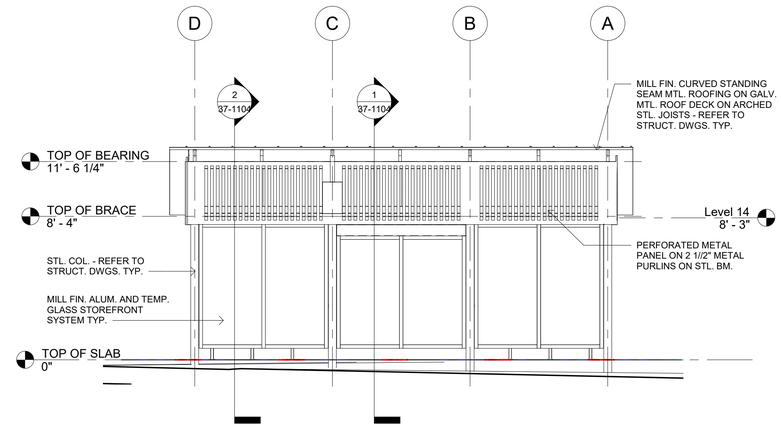
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
37-1102

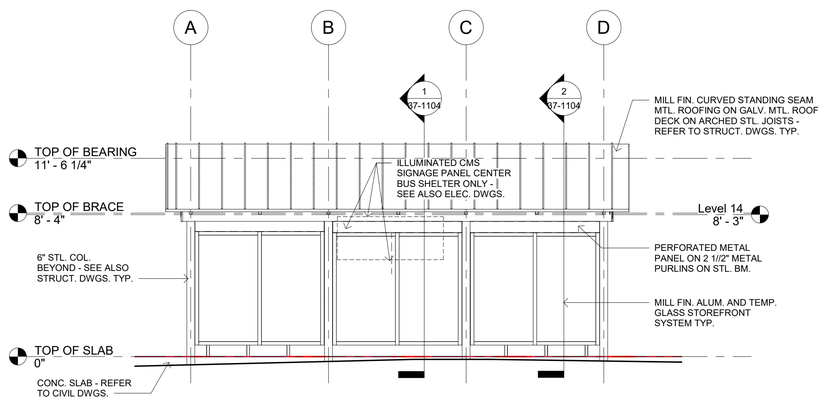
10/23/2015 GPLN



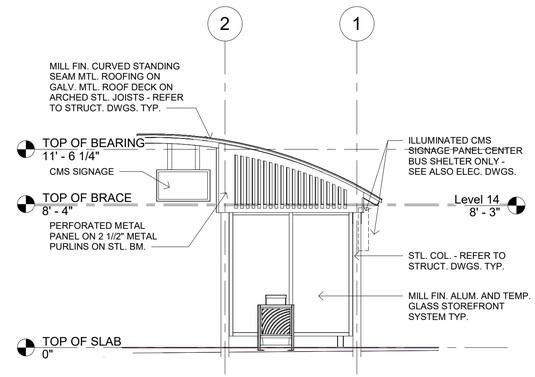
2 BUS SHELTER - EAST ELEVATION5 - 2
1/4" = 1'-0"



1 BUS SHELTER - NORTH ELEVATION5 -1
1/4" = 1'-0"



3 BUS SHELTER - SOUTH ELEVATION5 - 3
1/4" = 1'-0"



4 BUS SHELTER - WEST ELEVATION5 - 4
1/4" = 1'-0"

CASE NUMBER : 2020-00316

DO NOT SCALE

Engineer's Seal Here

STATE OF GEORGIA
06/30/21
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

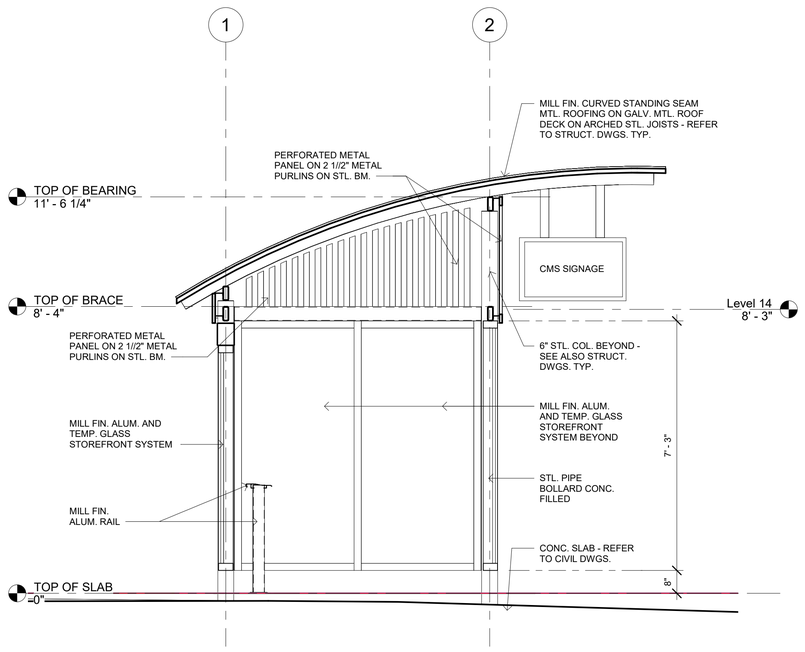
BUS SHELTER ELEVATIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

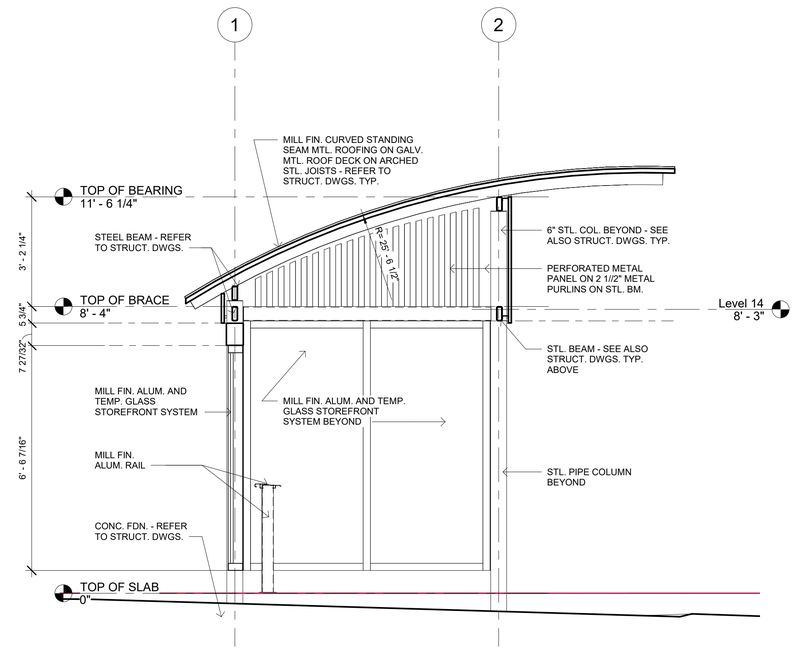
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
37-1103

10/23/2015 GPLN



2 BUS SHELTER SECTION 2
1/2" = 1'-0"



1 BUS SHELTER SECTION 1
1/2" = 1'-0"

CASE NUMBER : 2020-00316

DO NOT SCALE

Engineer's Seal Here

STATE OF GEORGIA
06/30/21
CERTIFICATE NO. 0000
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

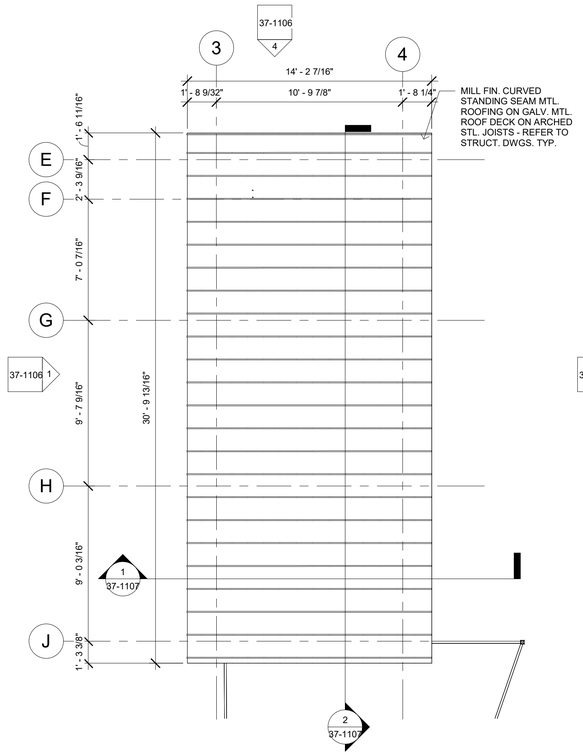
BUS SHELTER SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

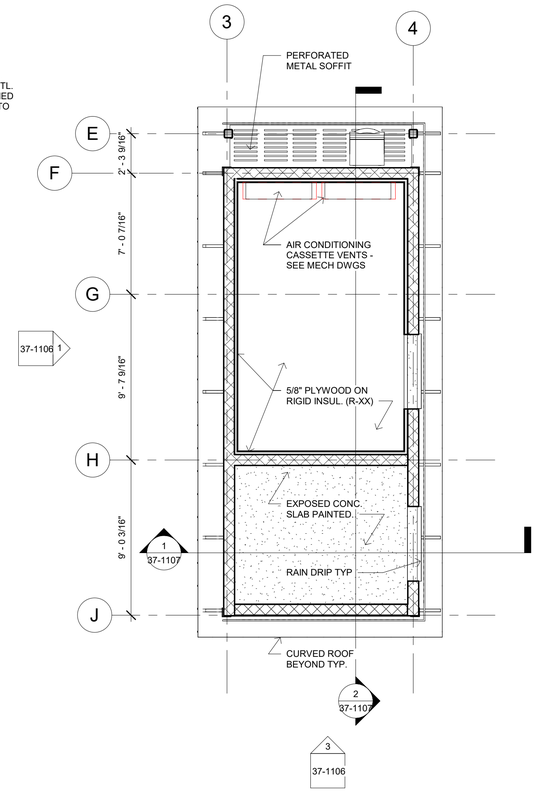
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
37-1104

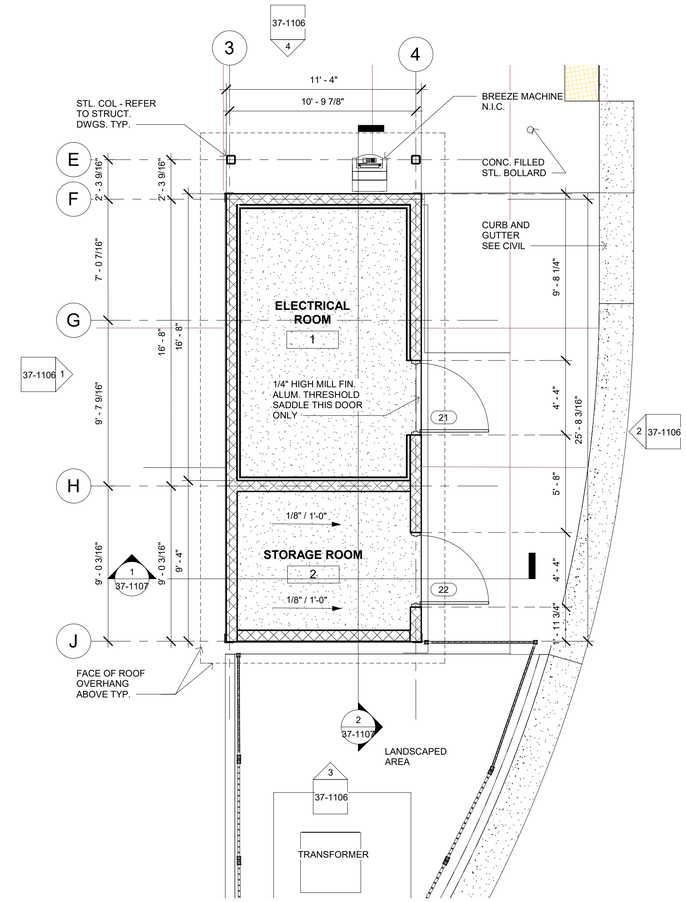
10/23/2015 GPLN



3 Level 4 STORAGE BLDG ROOF PLAN
1/4" = 1'-0"



2 LEVEL 1 STORAGE BLDG REFLECTED CLG PLAN
1/4" = 1'-0"



1 Level 1 STORAGE BLDG FLOOR PLAN
1/4" = 1'-0"

CASE NUMBER : 2020-00316

PROJECT NORTH

"Cost for payment of building permitting to be included in grading complete."

DO NOT SCALE

Engineer's Seal Here

STATE OF GEORGIA
06/30/21
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

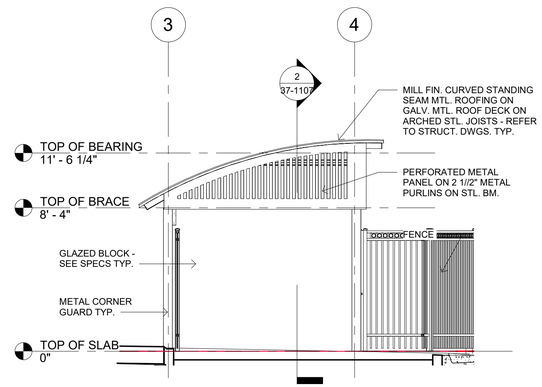
REVISION DATES

STORAGE ROOM FLOOR PLAN. REF. CLG PLAN, AND ROOF PLAN

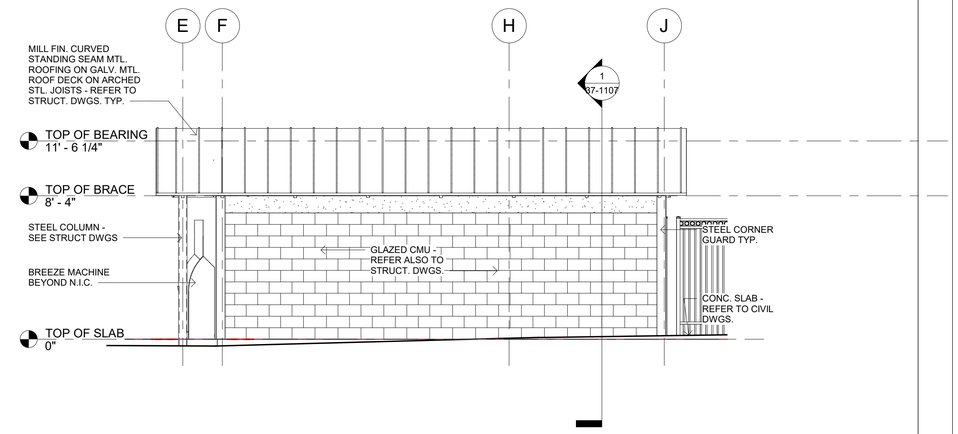
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

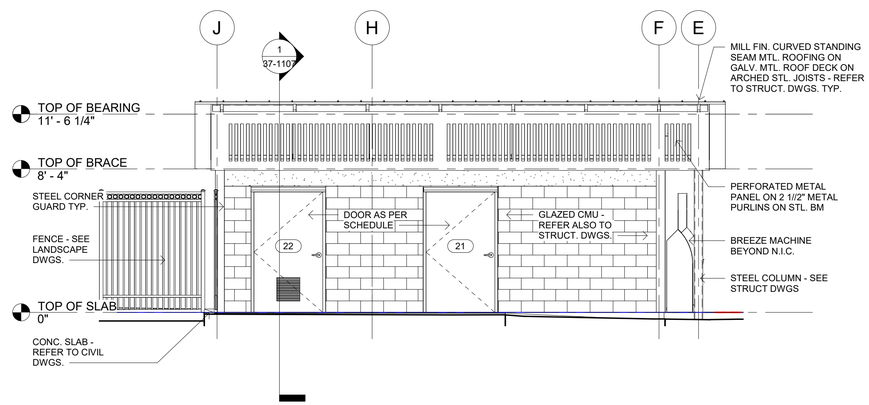
DRAWING No.
37-1105



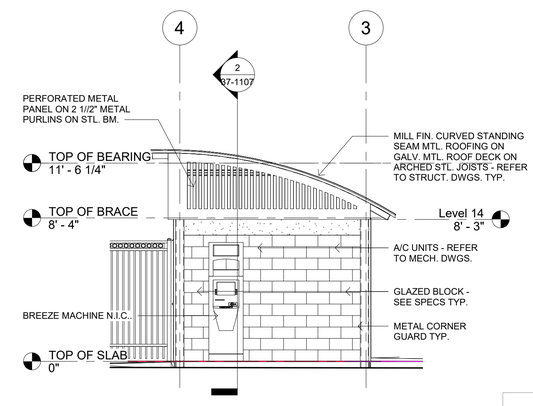
3 STOR - EAST ELEVATION2 - W
1/4" = 1'-0"



1 STOR - SOUTH ELEVATION2 - N
1/4" = 1'-0"



2 STOR - NORTH ELEVATION2 - S
1/4" = 1'-0"



4 STOR - WEST ELEVATION2 - E
1/4" = 1'-0"

CASE NUMBER : 2020-00316

DO NOT SCALE

Engineer's Seal Here
STATE OF GEORGIA
06/30/21
REGISTERED ARCHITECT

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

STORAGE ROOM ELEVATIONS

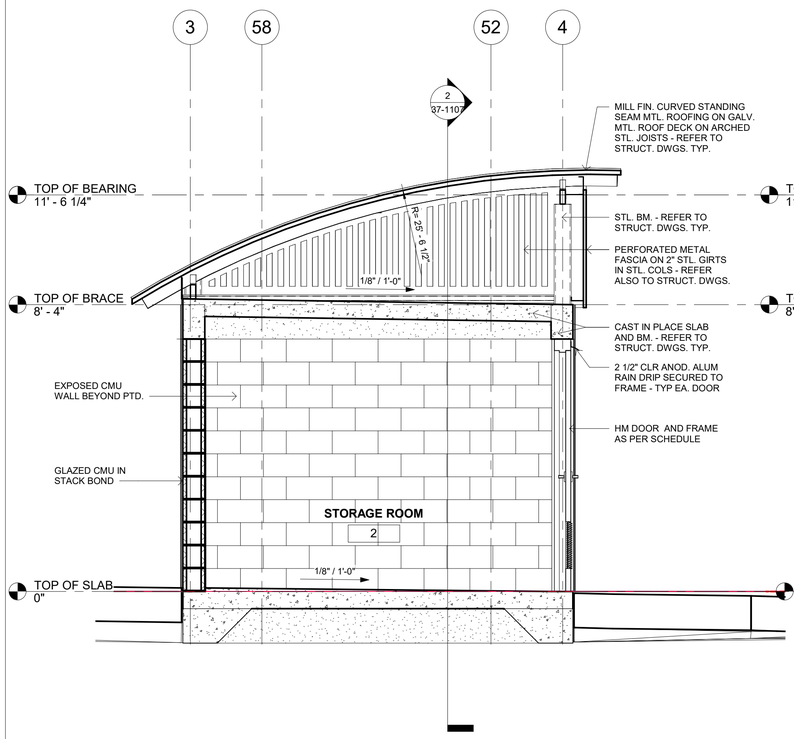
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

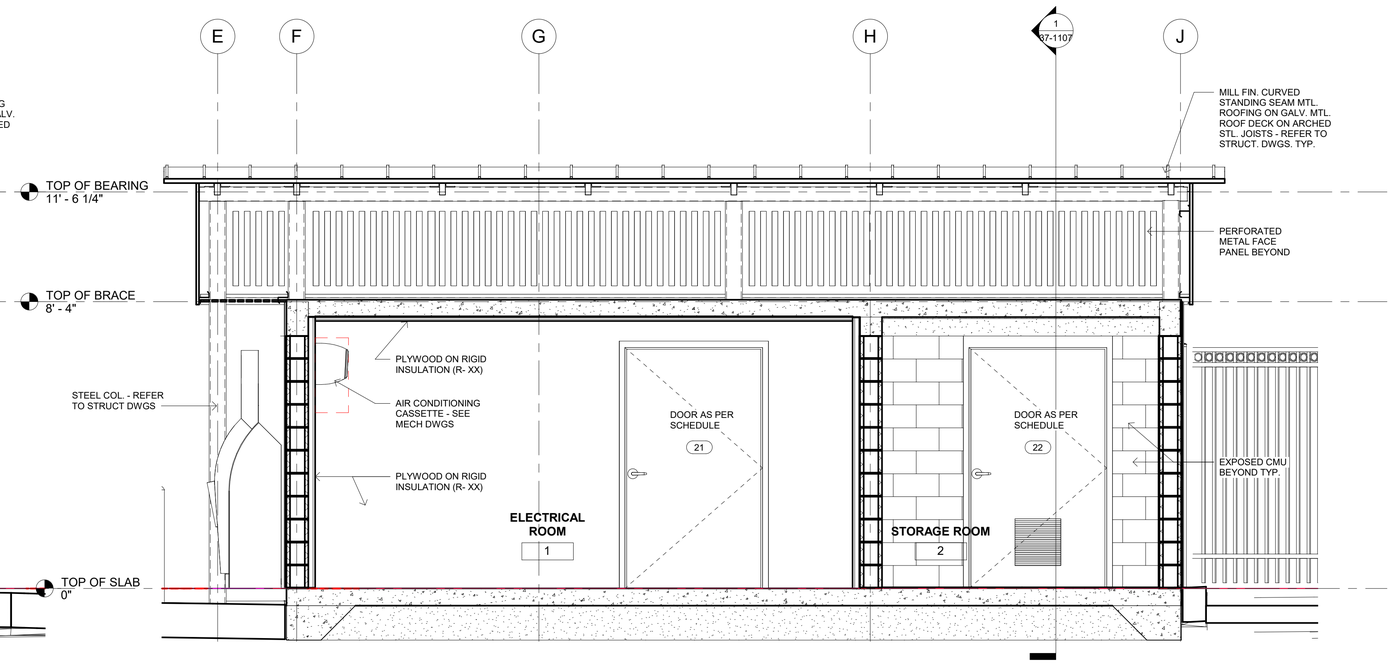
DRAWING No.
37-1106

10/23/2015 GPLN

DATE$$$	TIME$$$	$PRF8$	DGN	P.I. No.
$USER$		$$PENTABLE$$		21-073



1 STORAGE ROOM - BLDG SECTION 3
1/2" = 1'-0"



2 STORAGE ROOM BLDG SECTION 3
1/2" = 1'-0"

CASE NUMBER : 2020-00316

DO NOT SCALE

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STATE OF GEORGIA
06/30/21
CERTIFICATE NO. 025810
REGISTERED ARCHITECT

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Expiration Date 06/30/2022

REVISION DATES

STORAGE ROOM SECTIONS

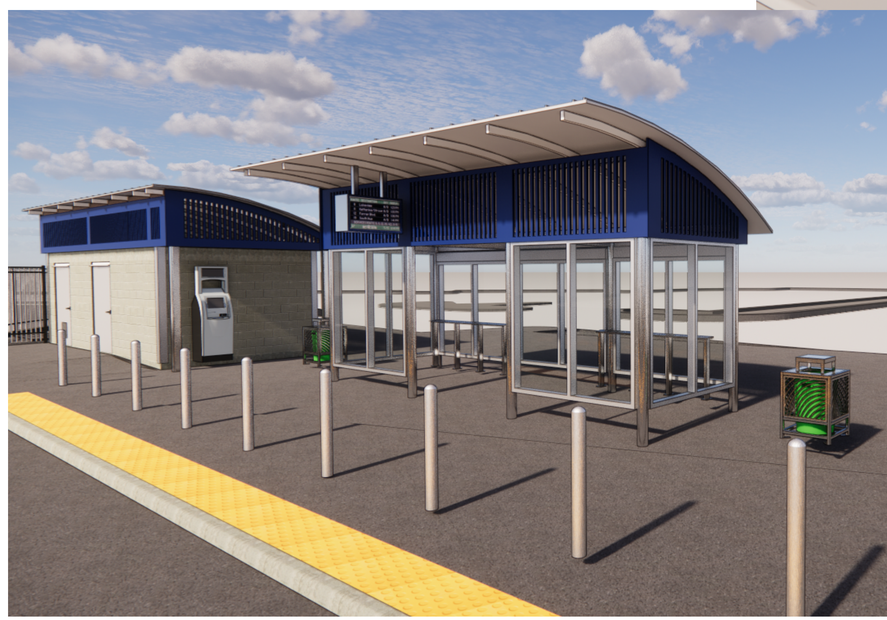
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No.
37-1107

10/23/2015 GPLN

DATE$$$ TIME$$$	$PRF8$	DGN	P.I. No.
$USER$	$$PENTABLE$$		21-073



CASE NUMBER : 2020-00316

DO NOT SCALE

STATE OF GEORGIA
06/30/21
CERTIFICATE NO. 025850
REGISTERED ARCHITECT

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Expiration Date 06/30/2022

REVISION DATES

BUS SHELTER VIEWS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

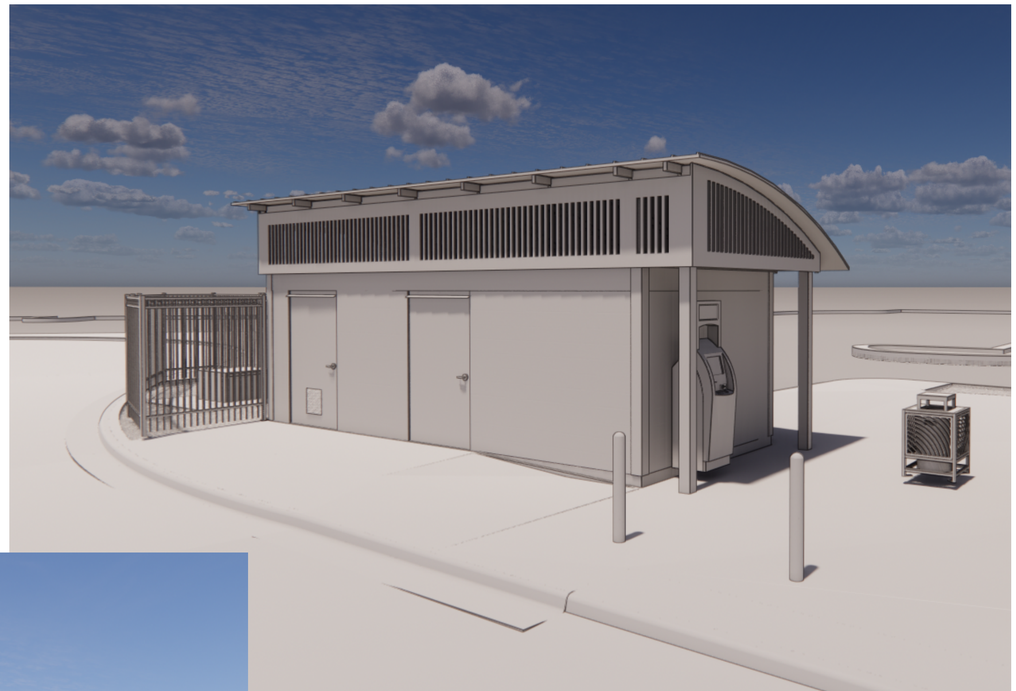
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.

37-1108

10/23/2015 GPLN

DATE$$$ TIME$$$ $PRF8$ DGN P.I. No.
$USER$ $$PENTABLE$$ 21-073



CASE NUMBER : 2020-00316

DO NOT SCALE

STATE OF GEORGIA
06/30/21
REGISTERED ARCHITECT

Engineer's Seal Here

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Expiration Date 06/30/2022

REVISION DATES

STORAGE ROOM VIEWS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No.
37-1109

10/23/2015 GPLN

STRUCTURAL NOTES

1. FOUNDATION:
   A. FOUNDATION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS PROVIDED BY WILLMER ENGINEERING ON APRIL 26, 2021 WITH REV. 1 DATED JUNE 4, 2021 AND CONSISTS OF WALL CONTINUOUS & PAD FOOTINGS DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR WELL COMPACTED FILL MATERIAL.
   B. CONCRETE WALL FOOTINGS AND PADS SHALL NOT RECEIVE SUPERIMPOSED LOADS UNTIL 48 HOUR OR MORE AFTER THE CONCRETE IS PLACED.
   C. EXCAVATIONS FOR MONOLITHIC FOOTINGS AND FOUNDATIONS, WHICH ARE TO SERVE AS FORMS, SHALL BE THOROUGHLY WET PRIOR TO PLACING CONCRETE.
   D. AS A MINIMUM, BOTTOM OF MONOLITHIC FOOTING SHALL BE 8" MINIMUM BELOW GRADE AND TOP OF STEM WALL FOOTING AND ISOLATED FOOTING AS WELL, PILE CAP AND GRADE BEAM SHALL BE 12" MINIMUM BELOW GRADE. IF ELEVATION OF FOOTING SHOWN IN DETAILS PUT THE FOOTING HIGHER THAN 8" BELOW GRADE, THE 8" RULE SHALL GOVERN OVER THE ELEVATION SHOWN.
2. SLABS ON FILL:
   FILL AND BACKFILL TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY FOR ALL LAYERS AS VERIFIED BY FIELD DENSITY TEST FOR ALL LAYERS. TESTS SHALL BE MADE IN ACCORDANCE WITH METHODS OF TEST FOR MOISTURE DENSITY RELATIONS OF SOILS, ASTM D 1557 MODIFIED. COMPACTION LAYERS NOT TO EXCEED 12". BACKFILL MATERIAL TO BE APPROVED BY SOIL ENGINEER. SLABS TO BE PLACED CONTINUOUSLY. PROVIDE CONTRACTION JOINTS, MAXIMUM AREA BETWEEN JOINTS LIMITED TO 225 SF, AND/OR 12 FEET IN ANY DIRECTION. COORDINATE WITH ARCHITECTURE FOR LOCATION OF SAW CUTS AT EXPOSED AREAS. SAW CUT FOR THE JOINTS TO BE A MINIMUM OF ¼" SLAB DEPTH AND 1/8 INCH WIDE. PROVIDE VAPOR BARRIER BELOW ALL SLABS ON FILL (6 MIL.).
   WELDED WIRE FABRIC REINFORCEMENT FOR SLAB ON GRADE SHALL BE ADEQUATELLY CHAIRED FOR ELEVATION, WET–LIFTING SHALL NO BE PERMITTED.
3. CONCRETE:
   ALL CONCRETE TO ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AS SHOWN BELOW IN 28 DAYS. AGGREGATES TO BE CLEAN WELL GRADED, MAXIMUM SIZE 3/4".
   CONCRETE SLUMP= 3" MIN. TO 5" MAX.
   VERTICAL CONCRETE DROP NOT TO EXCEED 9'–0".

FOUNDATIONS AND SLAB ON GRADE	= 4000 PSI
COLUMNS, TIE COLUMNS AND BEAMS, U.N.O	= 4000 PSI
SLABS,	= 4000 PSI
ALL OTHER MEMBERS	= 4000 PSI

4. CONCRETE COVER:

	MINIMUM CLEAR COVER, IN.
A. SLAB ON GRADE AND FOOTINGS.	3
B. WALLS.	3/4
C. COLUMNS.	1 1/2
D. BEAMS.	1 1/2
E. WALLS AND COLUMNS EXPOSED TO EARTH OR WEATHER.	2
F. SLABS	
TOP BARS	3/4
BOTTOM BARS	3/4
G. ANY CONCRETE CAST AGAINST EARTH.	3

5. REINFORCING STEEL:
   A– TO BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
   B– WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
   C– ALL TOP REINFORCEMENT SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS ENDS.
   D– ALL BOTTOM BARS SHALL BEAR A MINIMUM OF 6" OVER SUPPORTS UNLESS OTHERWISE NOTED.
   E– REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCING CONCRETE STRUCTURES", AND THE ACI BUILDING CODE 318–11.
   F– WHEN REQUIRED, WELDABLE REINFORCING TO BE A706.
   G– FOR FOUNDATION SPLICES IN REINFORCING BARS SHALL BE NOT LESS THAN 36 BAR DIAMETERS AND REINFORCEMENT SHALL BE CONTINUOUS AROUND ALL CORNERS AND CHANGES IN DIRECTION. CONTINUITY SHALL BE PROVIDED AT CORNERS OR CHANGES IN DIRECTION BY BENDING THE LONGITUDINAL STEEL AROUND THE CORNER 48 BAR DIAMETERS OR BY ADDING MATCHING REINFORCING STEEL, WHICH SHALL EXTEND 48 BAR DIAMETERS FROM EACH CORNER OR CHANGE IN DIRECTION. WHEN THREE OR MORE BARS ARE REQUIRED, THE BARS SHALL BE HELD IN PLACE AND ALIGNED BY TRANSVERSE BARS SPACED NOT MORE THAN 4 FEET (1219 MM) APART.
   FOR ALL OTHER SPLICES SEE SPECIFIC SECTION OR DETAIL AND TENSION LAP SPLICE SCHEDULE.
   H– ALL REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI–315–11.
6. MASONRY:
   A– ALL CONCRETE BLOCK MASONRY WALLS, TO COMPLY WITH INTERNATIONAL BUILDING CODE REQUIREMENTS AND THE ACI STANDARD CALLED "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/530.1–11 EDITION /ASCE 5–11/TMS 402–08".
   B– CONCRETE BLOCK UNITS TO BE TYPE II–NONMOISTURE CONTROLLED, CONFORMING TO ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI, (AVERAGE OF THREE).
   PRISM STRENGTH OF CMU WALLS F'm=1500 PSI.
   C– MORTAR SHALL CONFORM TO ASTM C 270.
   MORTAR TYPE "M", WITH A MINIMUM AVERAGE STRENGTH OF 2500 PSI. SHALL BE USED FOR WALLS BELOW GRADE.
   MORTAR TYPE "M" (2500 PSI) OR TYPE "S" (1800 PSI) SHALL BE USED FOR ALL OTHER MASONRY WALLS.
   D– ALL CMU WALLS SHALL BE HORIZONTALLY REINFORCED WITH STANDARD NO. 9 LADDER–TYPE GALVANIZED STEEL REINFORCING EVERY OTHER COURSE. EXTEND REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.
   E– ALL VERTICAL REINFORCEMENT, AS SPECIFIED ON PLANS, SHALL BE PLACED IN FULLY GROUTED CELLS. DOWELS SHALL BE PROVIDED TO ENSURE CONTINUITY OF REINFORCEMENT AT THE STRUCTURE ABOVE AND BELOW. ALL LAPS SHALL BE SPLICED MINIMUM 48 BAR DIAMETERS. ADDITIONAL VERTICAL WALL REINFORCEMENT SHALL BE PROVIDED AT ALL WALL ENDS, CORNERS, INTERSECTIONS AND AT ALL WALL OPENINGS NOT BOUND BY CONCRETE COLUMNS. PROVIDE CLEANOUT HOLES IN REINFORCED WALL CELLS AT BOTTOM OF EACH POUR. CLEAN CELLS FREE OF MORTAR AND DEBRIS. TIE VERTICAL REINFORCEMENT. MAXIMUM LIFT OF EACH POUR SHALL NOT EXCEED 4 FEET. MAXIMUM VERTICAL DROP FOR GROUTING SHALL NOT EXCEED 10 FEET. VERTICAL REINFORCEMENT WITHIN TERMINATING WALLS SHALL EXTEND TO 2" BELOW TOP OF CONCRETE CAP/TIE BEAM ABOVE.
   F– PROVIDE INTERLOCKING BLOCK CONSTRUCTION AT ALL INTERSECTIONS AND CORNERS, PROVIDE CONTINUOUS JOINT REINFORCING AROUND CORNERS AND AT INTERSECTIONS.
   G– CONCRETE TIE COLUMNS AND TIE BEAMS SHALL BE CAST AGAINST ERECTED MASONRY WALLS. HORIZONTAL JOINT REINFORCEMENT SHALL EXTEND A MINIMUM OF 4 INCHES INTO TIE COLUMNS.
   H– PROVIDE GALVANIZED DOVETAIL ANCHORS AT ALTERNATE JOINTS AT ALL MASONRY WALLS ABUTTING CONCRETE COLUMNS.
   I– REINFORCED CELLS SHALL BE FILLED WITH 3000 PSI GROUT AS PER ACI 530–11 AND ACI 530.1–11. FILLING OF CELLS SHALL BE DONE IN FOUR FOOT LIFTS WITH A MAXIMUM POUR OF 9 FEET. USE MECHANICAL VIBRATION TO ACHIEVE GROUT–FILLED GROUT SHALL CONFORM TO ASTM C476. SLUMP SHALL BETWEEN 8" AND 11". PEAROCK PUMP MIX CAN BE USED AS AN ALTERNATIVE TO GROUT.
7. DESIGN LOADS. GRAVITY.
   ROOF:
   DL= 20 PSF LL= 20 PSF
8. WIND LOADS AND DESIGN STANDARDS:
   STRUCTURE HAS BEEN DESIGNED TO RESIST LATERAL LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF ASCE 7–10:
   WIND VELOCITY = 115 MPH,
   EXPOSURE C
9. STRUCTURAL STEEL:
   A. STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE IBC AND AISC SPECIFICATIONS.
   B. STRUCTURAL STEEL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

TYPE	ASTM	GRADE	fy
WIDE FLANGE (W SHAPE)	A36	–	36KSI
C, S&M SHAPES	A36	–	36KSI
ANGLES	A36	–	36KSI
SQUARE & RECTANGULAR HSS	A500	B	46KSI
ROUND HSS	A500	B	42KSI
STEEL PIPE	A53	–	35KSI
STRUCTURAL BOLTS	ASTM1554	36	36KSI
ANCHOR BOLTS–THREADED RODS	F1554	36	36KSI
PLATES	A36		36KSI
THREADED RODS	A36		36KSI

   ALL STRUCTURAL STEEL THAT IS EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED.
   C. ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE DESIGNED BY THE FABRICATOR. SHOP DRAWINGS AND CONNECTION CALCULATIONS SHALL BE SUBMITTED BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
   D. BEAM SHEAR CONNECTIONS DESIGN SHALL BE BASED ON BEARING TYPE BOLTED CONNECTIONS WITH BOLTS "SNUG TIGHT" PER AISC.
10. WELDING:
   CONNECTIONS SHOWN ARE BASED ON WELD MADE WITH E70XX ELECTRODES. WELDING TO BE DONE BY CERTIFIED WELDERS HOLDING CURRENT WELDING CERTIFICATES, AND MUST PRESENT SAME AT JOB SITE AT ALL TIMES. ALL WELDING PER PLANS AND PER GUIDELINES OF THE AMERICAN WELDING SOCIETY.
11. DETAILS AND SECTIONS:
   ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, UNLESS A DIFFERENT DETAIL, OR SECTION IS SHOWN.
12. THE STRUCTURE IS DESIGNED TO BE SELF–SUPPORTING AND STABLE FOLLOWING INSTALLATION OF ALL COMPONENTS AS INDICATED ON THE DRAWINGS. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE METHOD AND SEQUENCE OF ERECTION PROCEDURES (INCLUDING IMPLEMENTATION OF TEMPORARY SHORING, BRACING, ETC.) IF A SEQUENCE IS SPECIFIED IN THE ARCHITECTURAL OR STRUCTURAL DRAWINGS CONTRACTOR SHALL VERIFY THE FEASIBILITY OF IT AND INFORM THE ENGINEER OR ARCHITECT OF ANY DISCREPANCY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY THROUGHOUT THE PERIOD OF CONSTRUCTION. THIS STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING MECHANICAL AND ELECTRICAL DRAWINGS TO COORDINATE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC.
13. GENERAL:
   A. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND PLAN NOTES OF INFORMATION IN THE PLANS, SECTION OR DEATILS, THE MOST STRINGENT REQUIREMENT SHALL BE APPLIED.
   B. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR MUST NOTIFY THE ARCHITECT AND ENGINEER, IN WRITING, OF THE SAME PRIOR TO PROCEEDING WITH THE WORK IN QUESTION. IN THE EVENT THAT THE CONTRACTOR FAILS TO GIVE NOTICE, OR PROVIDE SUFFICIENT TIME FOR A RESPONSE, CONTRACTOR IS RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS, AND FOR ALL COSTS FOR RECTIFYING SAME AND FOR ANY DELAYS OR ANY OTHER COSTS INCURRED BY SAME.
   C. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING THE NEW CONSTRUCTION PRIOR TO COMMENCING THE WORK. ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE PERMITTED CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED FOR RE–DESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP DRAWINGS FOR REVIEW.
   D. CONTRACTOR SHALL COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS, VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. USE OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THE PROPOSED SYSTEM LAYOUT, COMPONENTS SELECTED, AND INSTALLATION. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
14. WOOD MEMBERS:
   ALL STRUCTURAL WOOD MEMBERS OTHER THAN TRUSSES TO BE SOUTHERN PINE GRADE NO. 2 UNLESS OTHERWISE NOTED.
   ALL WOOD MEMBERS TO BE FREE OF ALL IMPERFECTIONS AS: SPLITS, CHECKS, OR EXCESSIVE KNOTS. UNSATISFACTORY MATERIALS TO BE REPLACED AT NO COST TO OWNER. ALL WOOD MEMBERS EXPOSED TO THE WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESSURE TREATED.
   MOISTURE CONTENT SHALL BE 19% OR LESS.
   ALL BOLTED CONNECTIONS TO BE COMPLETED WITH A325 GALVANIZED STEEL BOLTS WITH WASHERS AT EACH END.
   FABRICATION, ERECTION, AND CONNECTIONS TO BE AS PER RECOMMENDATIONS OF THE A.I.T.C. (AMERICAN INSTITUTE OF TIMBER CONSTRUCTION), LATEST EDITION.
   PLYWOOD SHEATHING CLASSIFICATION SHALL BE "C" OR BETTER AND THE EXPOSURE SHALL BE APA RATED EXTERIOR.
   INSTALL PANELS WITH STRENGTH DIRECTION PERPENDICULAR TO TRUSSES OR JOISTS.
   PRESSURE–TREATED WOOD SHALL BE USED WHERE IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER.
15. FASTENERS:
   ALL BOLTS SHALL BE HOT DIPPED GALVANIZED, OR STAINLESS STEEL & MEET THE REQUIREMENTS OF ASTM A325. WASHERS SHALL BE USED BETWEEN WOOD & BOLT HEAD & BETWEEN WOOD & NUT. WHERE GENERIC FASTENERS ARE LABELED IN DETAILS, CAPACITIES SHALL BE EQUAL TO OR GREATER THAN HILTI KWIK BOLT III OR RED HEAD TRUBOLTS. EMBEDMENT DEPTHS SPECIFIED HEREIN ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESSES OF STUCCO OR OTHER FINISHES.
16. SUBMITTALS & SHOP DRAWINGS:
   NO SHOP DRAWING SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING, AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR, AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. SIGNED AND SEALED CALCULATIONS SHALL BE INCLUDED IF APPLICABLE.
   A. REINFORCING STEEL SHOP DRAWINGS.
   B. STRUCTURAL STEEL SHOP DRAWINGS. CONNECTIONS CALCULATIONS, IF ANY, SHALL BE SIGNED AND SEALED.
17. CODES:
   ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES, INCLUDING:
   - INTERNATIONAL BUILDING CODE
   - ASCE 7–10.

LEGEND

ADDN'L	–ADDITIONAL		
ARCH	–ARCHITECTURAL	LSV	–LONG LEG VERTICAL
BLDG	–BUILDING	LP	–LOW POINT
BM	–BEAM	LW	–LONG WAY
CIP	–CAST IN PLACE	LWC	–LIGHT WEIGHT CONCRETE
CJ	–CONTROL JOINT	LWIC	–LIGHT WEIGHT INSULATED CONCRETE
CL	–CENTERLINE	MAX	–MAXIMUM
CLR	–CLEAR	MECH	–MECHANICAL
CMU	–CONCRETE MASONRY UNIT	MIN	–MINIMUM
COL	–COLUMN	NTS	–NOT TO SCALE
CTR	–CENTER	NS	–NEAR SIDE
DBL	–DOUBLE	O/C	–ON CENTER
DET	–DETAIL	OD	–OUTSIDE DIAMETER
DN	–DOWN	OPP	–OPPOSITE
DWG	–DRAWING	PL	–PLATE
EA	–EACH	PLF	–POUNDS PER LINEAR FOOT
EE	–EACH END	PSF	–POUNDS PER SQUARE FOOT
EF	–EACH FACE	PSI	–POUNDS PER INCH
EJ	–EXPANSION JOINT	REINF	–REINFORCING
EL	–ELEVATION	REQ'D	–REQUIRED
EOR	–ENG. OF RECORD	REV	–REVISED/REVISION
EW	–EACH WAY	RM	–ROOM
EX	–EXISTING	SER	–STRUCT. ENG. OF RECORD
EXP	–EXPANSION	SF	–SQUARE FOOT
EWF	–EXISTING WALL FOOTING	SIM	–SIMILAR
FIN	–FINISH	SL	–SLOPE
FLR	–FLOOR	STD	–STANDARD
FND	–FOUNDATION	SW	–SHEARWALL/SHORT WAY
FS	–FAR SIDE	STL	–STEEL
FT	–FOOT	STRUCT	–STRUCTURAL
FTG	–FOOTING	TB	–TIE BEAM
F.V.	–FIELD VERIFY	TC	–TIE COLUMN
GA	–GAGE	TOC	–TOP OF CONCRETE
GALV	–GALVANIZED	T	–TOP
HORIZ	–HORIZONTAL	TEMP	–TEMPERATURE
HP	–HIGH POINT	TYP	–TYPICAL
ID	–INSIDE DIAMETER	UNO	–UNLESS NOTED OTHERWISE
IJ	–ISOLATION JOINT	UON	–UNLESS OTHERWISE NOTED
INFO	–INFORMATION	VERT	–VERTICAL
INT	–INTERIOR	W/	–WITH
LSV	–LONG SIDE VERTICAL	WHS	–WELDED HEADED STUD
LLH	–LONG LEG HORIZONTAL	WWF	–WELDED WIRE FABRIC

REQUIREMENTS FOR CONDUITS AND PIPES EMBEDDED IN CONCRETE.

1–CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED.
2–THE OUTSIDE DIAMETER OF CONDUITS AND PIPES SHALL NOT BE LARGER THAN 1/3 THE OVERALL THICKNESS OF SLAB, BEAM OR WALL IN WHICH THEY ARE EMBEDDED.
3–THE NOMINAL INSIDE DIAMETER OF THE CONDUITS AND PIPES SHALL NOT BE GREATER THAN 2".
4–STEEL AND IRON PIPES AND CONDUITS SHALL NOT BE THINNER THAN STANDARD SCHEDULE 40, AND CAN BE UNCOATED OR GALVANIZED. PIES AND CONDUITS OF OTHER MATERIAL SHALL BE DESIGNED TO RESIST PRESSURE AND TEMPERATURE WHICH THEY WILL BE SUBJECTED.
5–CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 4 TIMES THE OUTSIDE DIAMETER OR WIDTH (CLEAR SPACING).
6–IN SOLID SLABS PIPING AND CONDUITS SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCEMENT.
7–CONCRETE COVER FOR PIPES, CONDUITS AND FITTINGS SHALL BE NO LESS THAN 1½" FOR CONCRETE EXPOSE TO EARTH OR WEATHER AND NO LESS THAN ¾" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.

8–PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

ALUMINIUM MEMBERS IN CONTACT WITH CONCRETE AND WOOD SHALL BE PROTECTED BY "KOPPERS BITUMINOUS PAINT" IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE. ALL WELDS TO BE COVERED WITH ALUMINUM PAINT.

CASE NUMBER : 2020-00316

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES		

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 37804 DOUGLAS ABEL RAMIREZ

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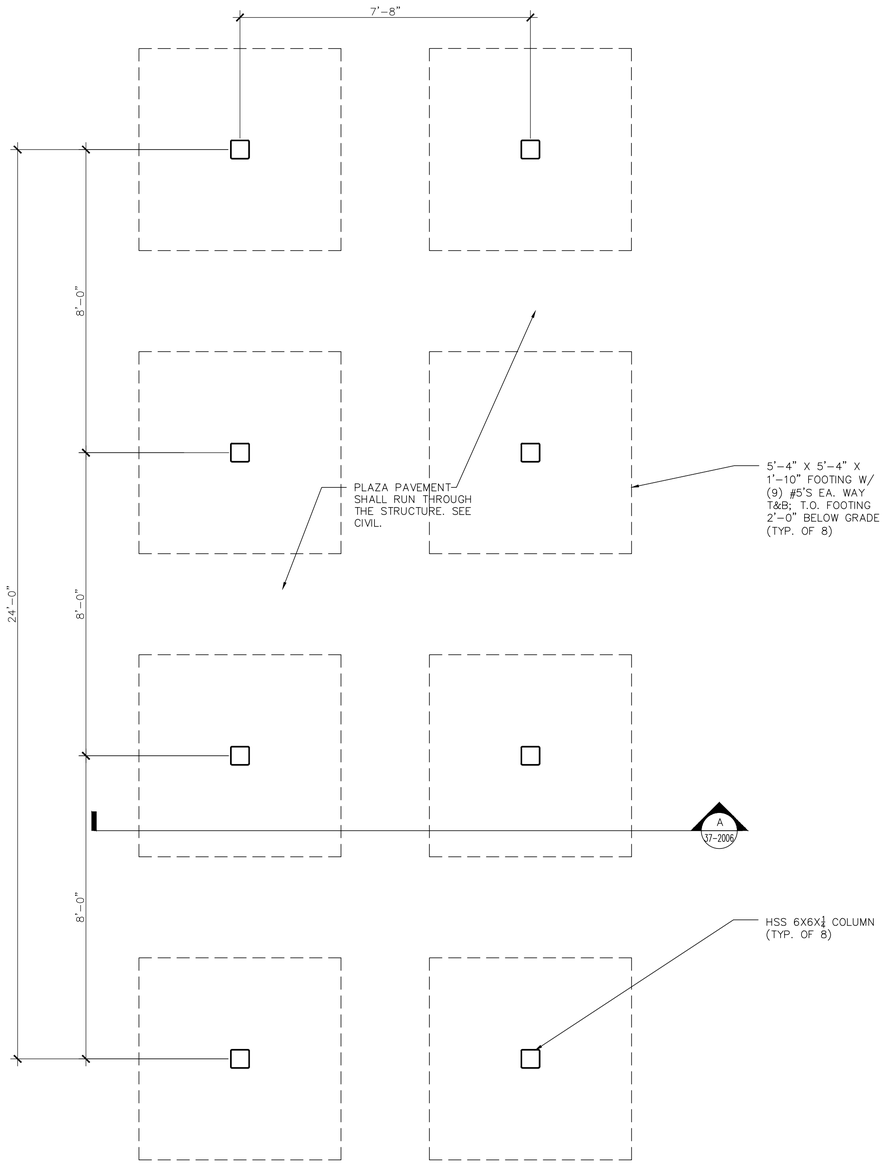
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

GENERAL STRUCTURAL NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:	DR	DATE: 8/26/2021	DRAWING No.
BACKCHECKED:	MB	DATE: 8/26/2021	37-2000
CORRECTED:	DR	DATE: 8/26/2021	
VERIFIED:	MB	DATE: 8/26/2021	



A 37-2001 BUS SHELTER FOUNDATION PLAN

SCALE 1/2 "=1'-0"

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

GEORGIA REGISTERED PROFESSIONAL ENGINEER DOUGLAS ABEL RAMIREZ No. 27801

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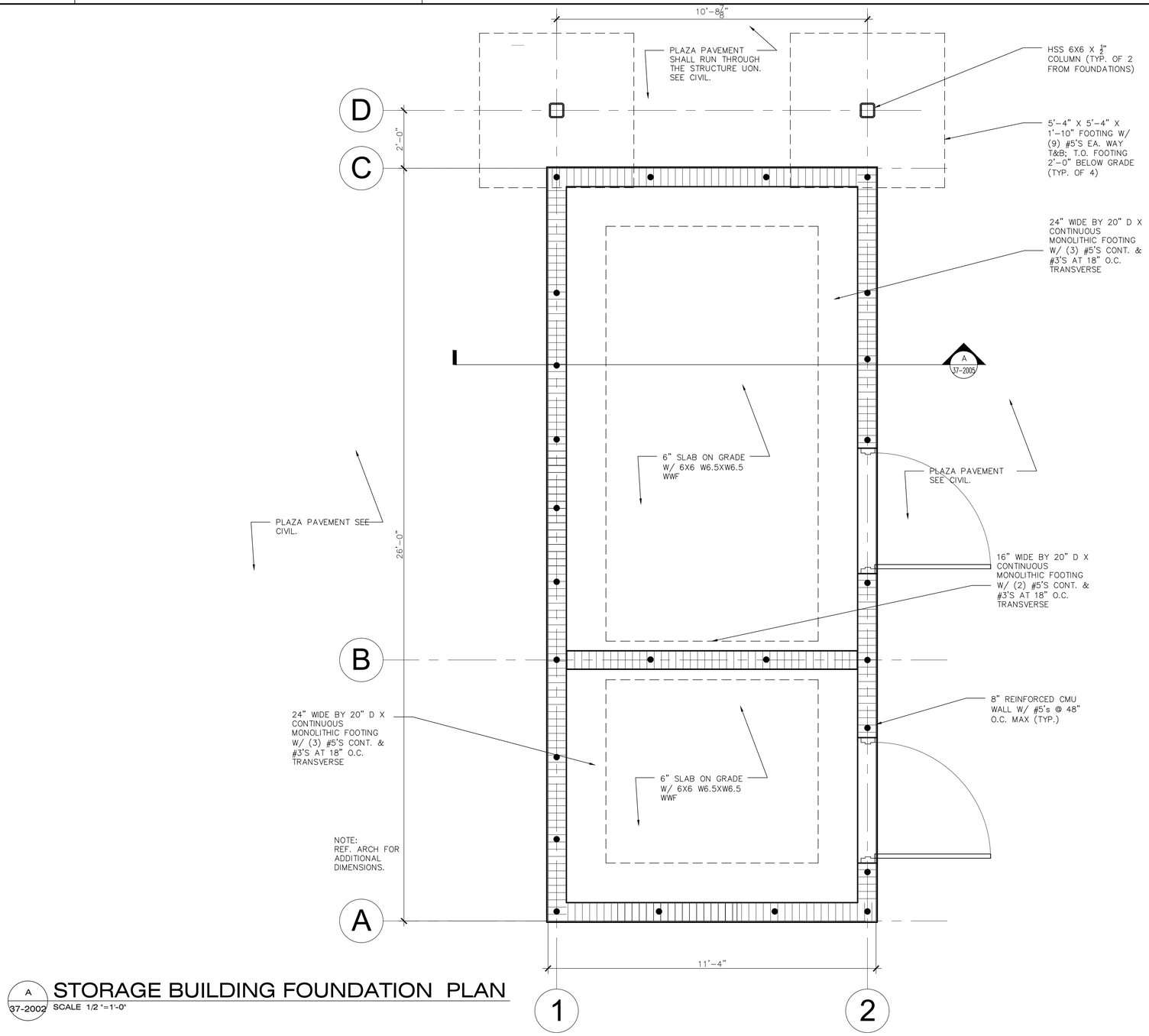
REVISION DATES

BUS SHELTER FOUNDATION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	37-2001
CORRECTED:		DATE: 8/26/2021	
VERIFIED:		DATE: 8/26/2021	



A 37-2002 STORAGE BUILDING FOUNDATION PLAN
SCALE 1/2 "=1'-0"

CASE NUMBER : 2020-00316

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

GEORGIA REGISTERED PROFESSIONAL ENGINEER DOUGLAS ABEL RAMIREZ

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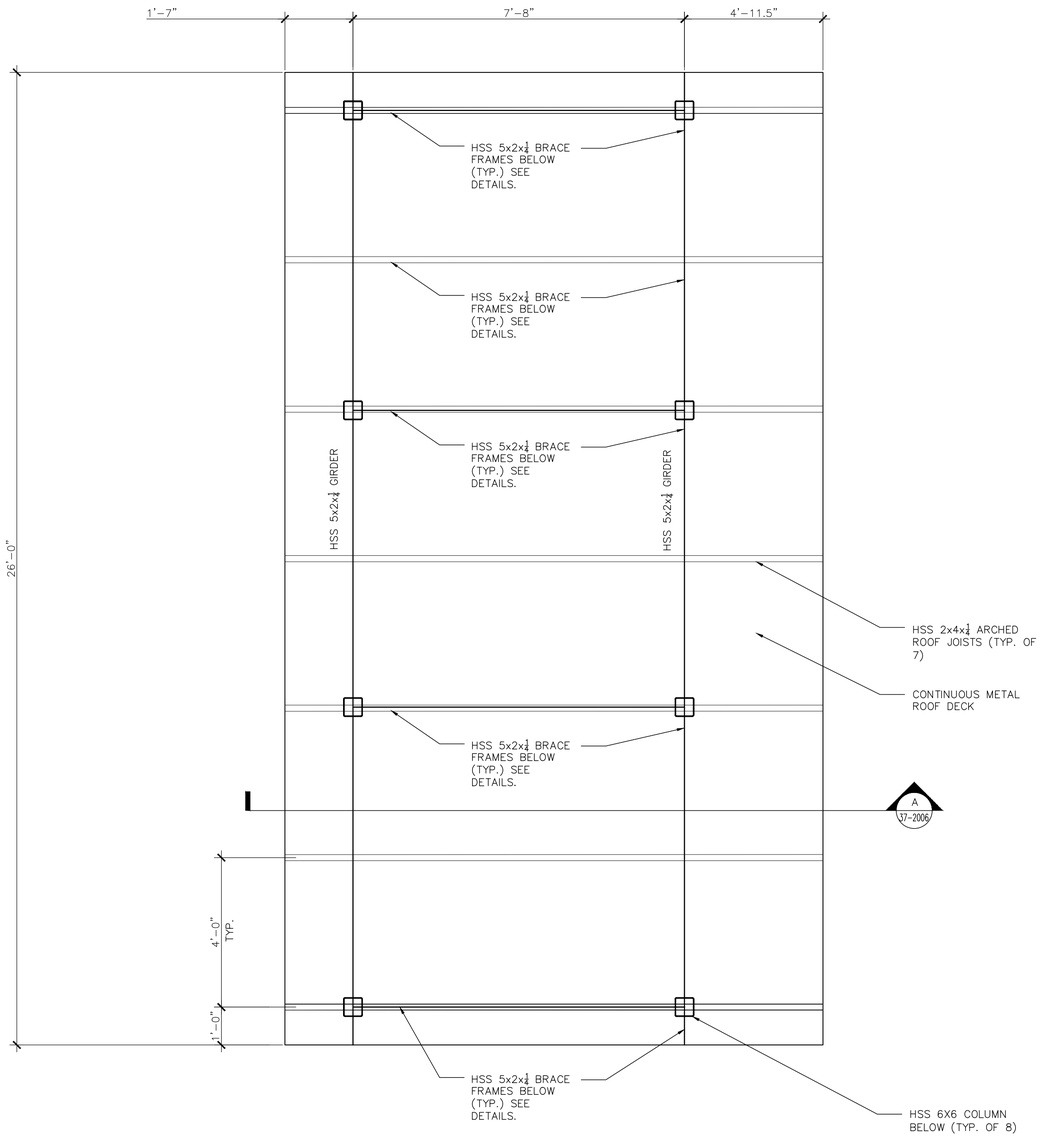
STORAGE BUILDING FOUNDATION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	
CORRECTED:		DATE: 8/26/2021	37-2002
VERIFIED:		DATE: 8/26/2021	



A 37-2003 **BUS SHELTER ROOF PLAN**

SCALE 1/2 "=1'-0"

WIND LOAD PRESSURE FOR ROOFING DESIGN AT NEW BUILDING (OPEN BUILDING)		
ROOF ZONE	PRESSURE (PSF) (NET UPLIFT)	a (FT)
1	−19.05	3
2	−23.45	
3	−42.51	

WALL COMPONENTS AND CLADDING PRESSURE.					
TRIBUTARY AREA	ZONE 4 (PSF)		ZONE 5 (PSF)		a (FT)
	(+)	(−)	(+)	(−)	
0 ft^2 to 10 ft^2	14.66	−16.12	14.66	−20.52	3
11 ft^2 to 20 ft^2	13.88	−15.34	13.88	−18.96	3
21 ft^2 to 50 ft^2	12.85	−14.31	12.85	−16.90	3
51 ft^2 to 100 ft^2	12.07	−13.53	12.07	−15.34	3
101 ft^2 to 200 ft^2	10.26	−11.73	10.26	−11.73	3

NOTES:
.− POSITIVE INDICATES INWARD PRESSURE.
.− NEGATIVE INDICATES OUTWARD PRESSURE.

PRESSURES INDICATED ARE NOMINAL COMPONENTS AND CLADDING GROSS PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER. NO FURTHER REDUCTION IS ALLOWED.

CASE NUMBER : 2020-00316

PROPERTY LINE	PL
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

GEORGIA REGISTERED PROFESSIONAL ENGINEER DOUGLAS ABEL RAMIREZ

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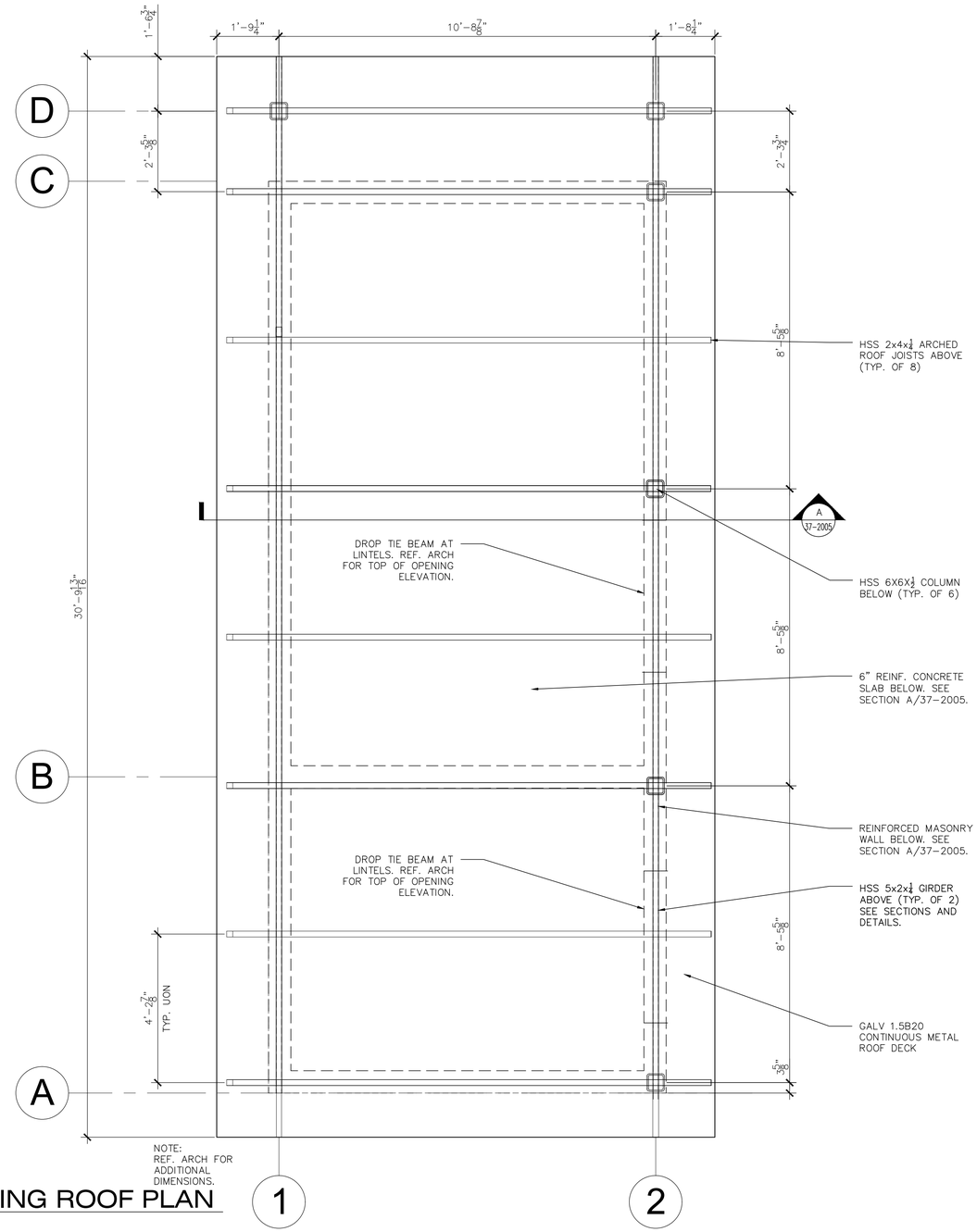
REVISION DATES

BUS SHELTER ROOF PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	37-2003
CORRECTED:		DATE: 8/26/2021	
VERIFIED:		DATE: 8/26/2021	



A 37-2004 **STORAGE BUILDING ROOF PLAN**
SCALE 1/2 "=1'-0"

WIND LOAD PRESSURE FOR ROOFING DESIGN AT NEW BUILDING (CLOSED BUILDING)		
ROOF ZONE	PRESSURE (PSF) (NET UPLIFT)	a (FT)
1	−21.69	3
2	−26.09	
3	−45.14	

WALL COMPONENTS AND CLADDING PRESSURE.					
TRIBUTARY AREA	ZONE 4 (PSF)		ZONE 5 (PSF)		a (FT)
	(+)	(−)	(+)	(−)	
0 ft.² to 10 ft²	17.30	−18.76	17.30	−23.16	3
11 ft.² to 20 ft²	16.52	−17.98	16.52	−21.60	3
21 ft.² to 50 ft²	15.49	−16.95	15.49	−19.54	3
51 ft.² to 100 ft²	14.71	−16.17	14.71	−16.17	3
101 ft.² to 200 ft²	12.90	−14.36	12.90	−14.36	3

NOTES:
.− POSITIVE INDICATES INWARD PRESSURE.
.− NEGATIVE INDICATES OUTWARD PRESSURE.

PRESSURES INDICATED ARE NOMINAL COMPONENTS AND CLADDING GROSS PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER. NO FURTHER REDUCTION IS ALLOWED.

CASE NUMBER : 2020-00316

PROPERTY LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS BLA
END LIMIT OF ACCESS ELA
EXIST. LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE

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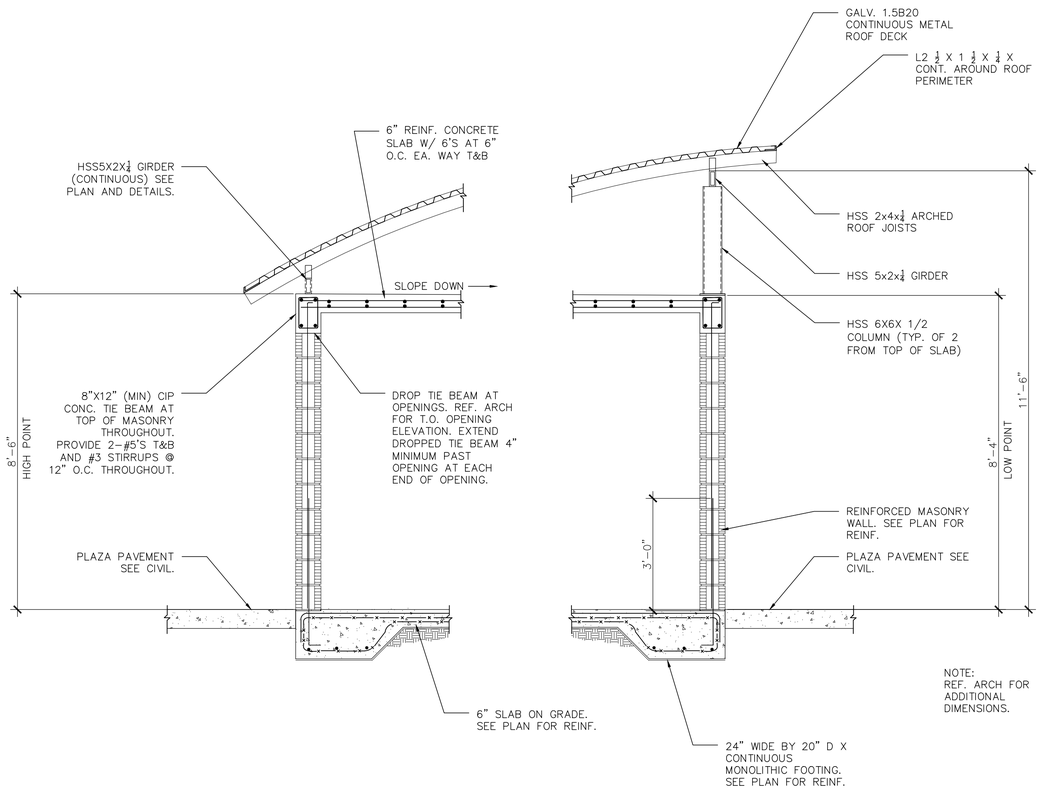
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

STORAGE BUILDING ROOF PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	37-2004
CORRECTED:		DATE: 8/26/2021	
VERIFIED:		DATE: 8/26/2021	



A
37-2005

SECTION OF STORAGE BUILDING

SCALE 1/2 "=1'-0"

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

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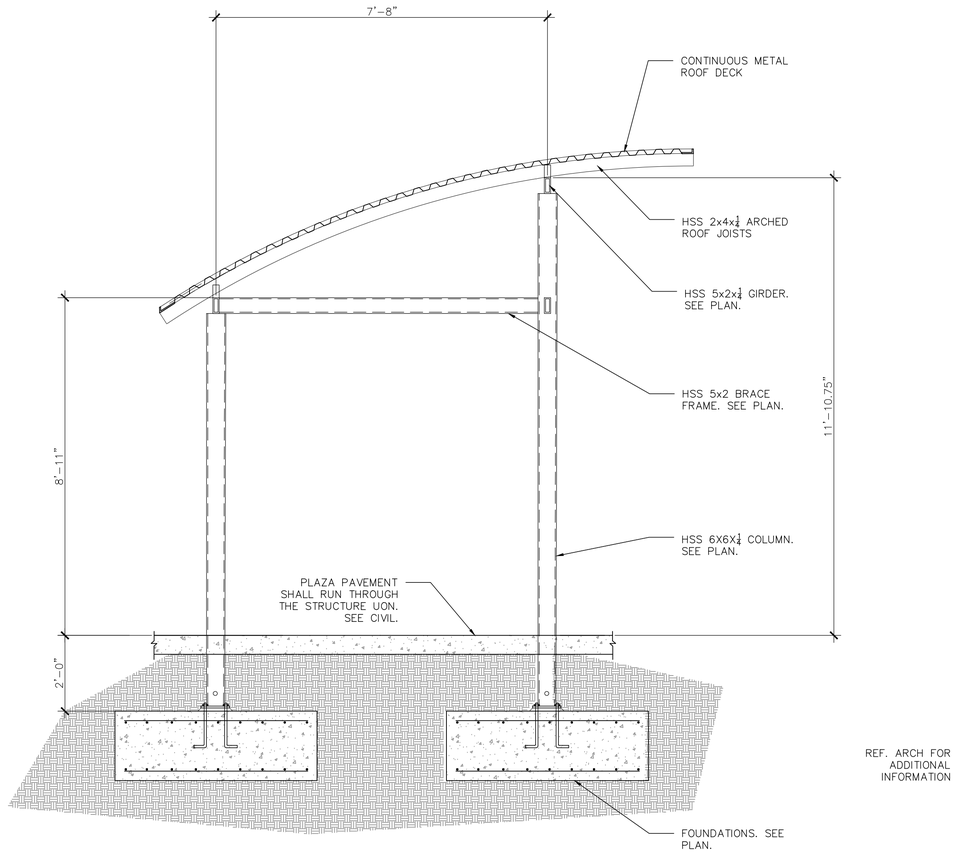
REVISION DATES

SECTION OF STORAGE BUILDING

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	
CORRECTED:		DATE: 8/26/2021	37-2005
VERIFIED:		DATE: 8/26/2021	



A
37-2006

SECTION OF BUS SHELTER BUILDING

SCALE 1/2 "=1'-0"

CASE NUMBER : 2020-00316

PROPERTY LINE	BEGIN LIMIT OF ACCESS — BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS — ELA
CONSTRUCTION LIMITS — C F	EXIST. LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 37808 DOUGLAS ABEL RAMIREZ

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

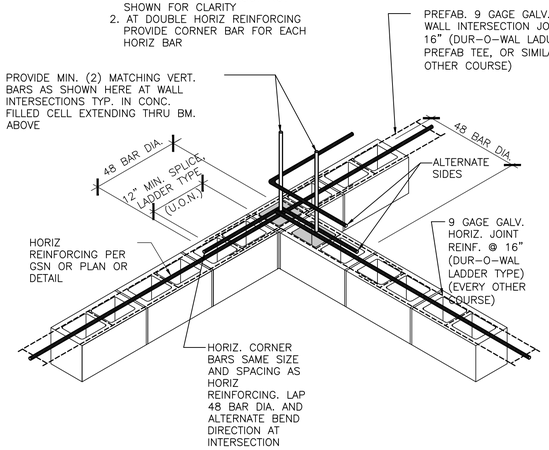
REVISION DATES

SECTION OF BUS SHELTER BUILDING

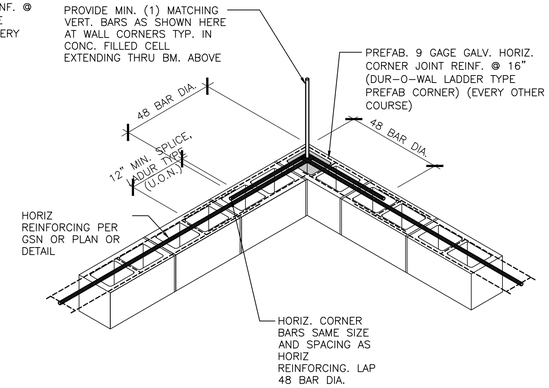
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

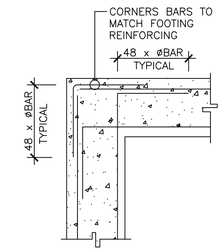
CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	37-2006
CORRECTED:		DATE: 8/26/2021	
VERIFIED:		DATE: 8/26/2021	

NOTES:
1. REGULAR SPACED VERT REINFORCING AND GROUT NOT SHOWN FOR CLARITY
2. AT DOUBLE HORIZ REINFORCING PROVIDE CORNER BAR FOR EACH HORIZ BAR



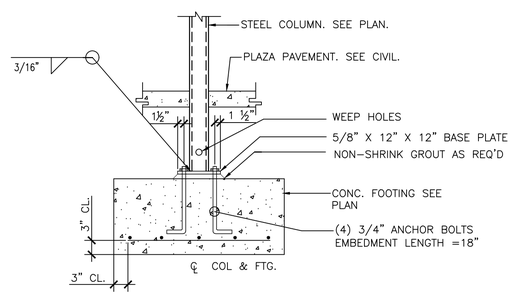
1 / 37-2007 TYPICAL DETAIL
SCALE 3/4 "=1'-0"





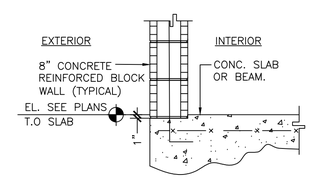
CORNER

2 / 37-2007 TYPICAL REINFORCING INTERSECTION DETAIL
SCALE: 3/8"=1'-0"



DETAIL AT STEEL COLUMN FOOTING

3 / 37-2007 TYPICAL DETAIL
SCALE N.T.S.



TYPICAL RECESS DETAIL AT SLAB OR BEAM

4 / 37-2007 TYPICAL DETAIL
SCALE 3/4 "=1'-0"

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 27868 DOUGLAS ABEL RAMIREZ

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REVISION DATES

TYPICAL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
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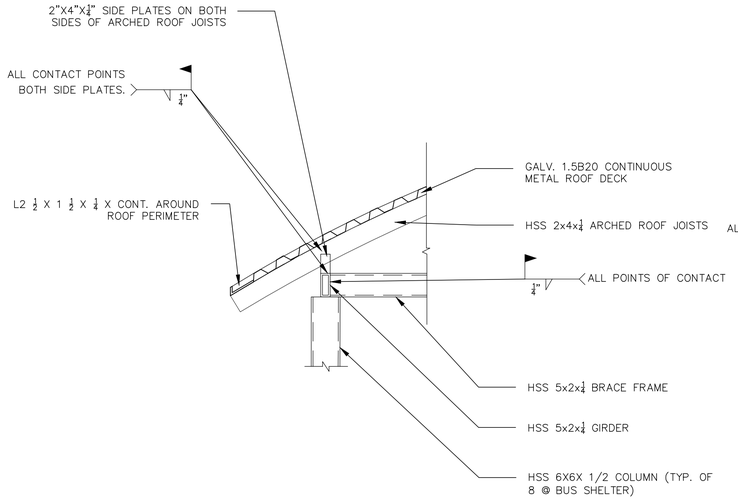
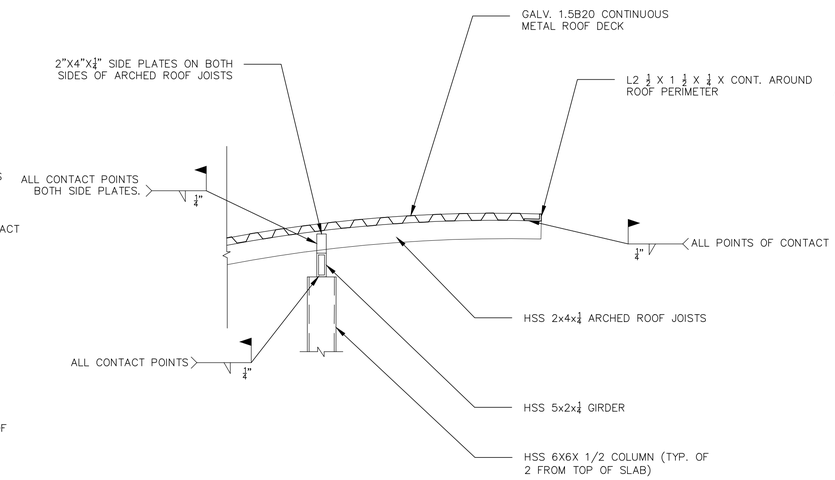
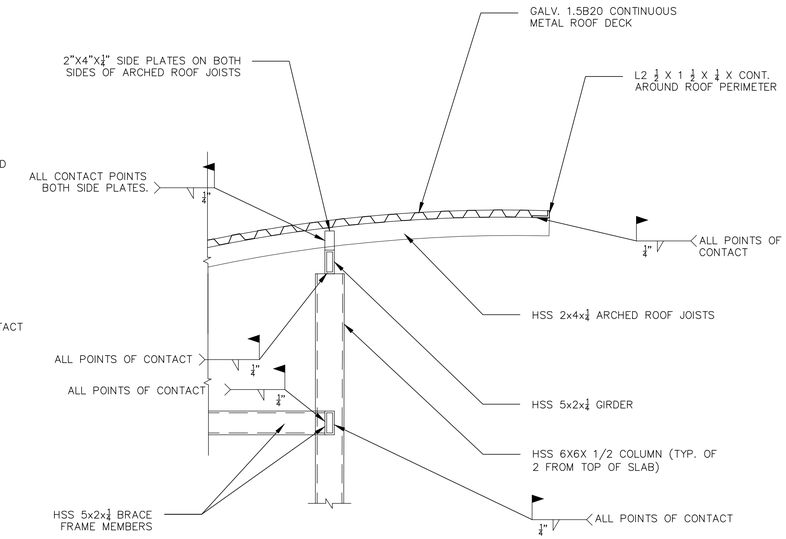
VERIFIED:		DATE: 8/26/2021	



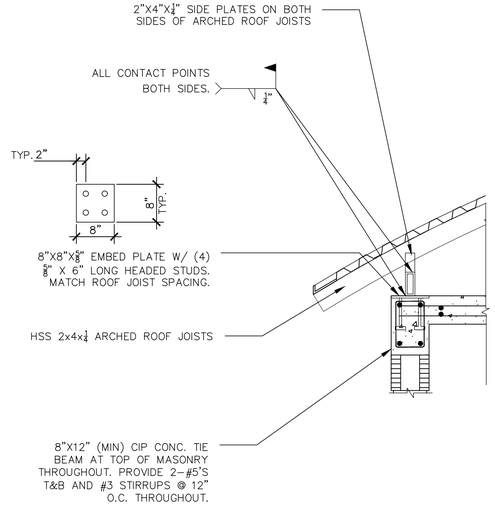
1 / 37-2008 MISC. STEEL CONNECTIONS
SCALE: 3/4"=1'-0"



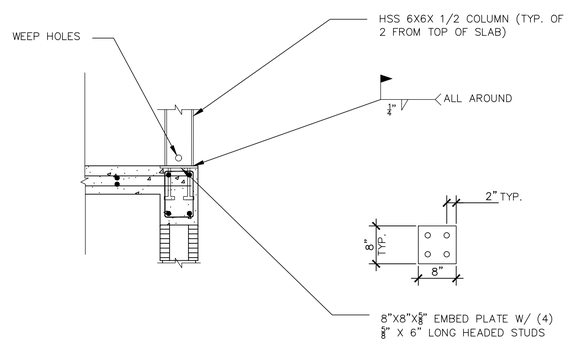
2 / 37-2008 MISC. STEEL CONNECTIONS
SCALE: 3/4"=1'-0"



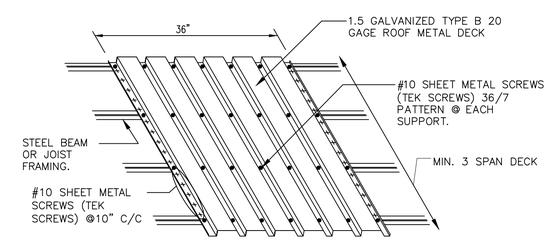
3 / 37-2008 MISC. STEEL CONNECTIONS
SCALE: 3/4"=1'-0"



4 / 37-2008 MISC. STEEL CONNECTIONS
SCALE: 3/4"=1'-0"



5 / 37-2008 MISC. STEEL CONNECTIONS
SCALE: 3/4"=1'-0"



6 / 37-2008 TYPICAL STEEL DECK ATTACHMENT DETAIL
SCALE: NTS

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 37808 DOUGLAS ABEL RAMIREZ

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REVISION DATES

STEEL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE: 8/26/2021	DRAWING No.
BACKCHECKED:		DATE: 8/26/2021	37-2008
CORRECTED:		DATE: 8/26/2021	
VERIFIED:		DATE: 8/26/2021	

GENERAL NOTES:

1. IN GENERAL, PLANS AND DIAGRAMS OF UTILITY RUNS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. COORDINATE AT SITE ALL PLUMBING, HVAC AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORK UNDER THE CONTRACT.

2. READ AND COMPLY WITH DIVISION 23 AND 26 OF THE CONTRACT SPECIFICATIONS SPECIAL TECHNICAL PROVISIONS FOR ALL WORK SHOWN ON THESE DRAWINGS.

3. PROPOSED SUBSTITUTION ITEMS WILL BE REVIEWED AND APPROVED BY THE ENGINEER. MODIFICATIONS AND ADDITIONAL COST WILL BE THE CONTRACTOR'S EXPENSE.

4. SPACE ALLOTTED FOR MECHANICAL AND ELECTRICAL WORK IS CRITICAL. MECHANICAL AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED TO ACHIEVE REQUIRED SERVICE CLEARANCES AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ENGINEER. THOROUGHLY FAMILIARIZE SELF WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS.

5. ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 26.

6. ALL CONTROL WIRING, CONDUIT, AND RELATED CONTROL DEVICES SHALL BE INSTALLED UNDER DIVISION 23 AND SHALL COMPLY WITH THE REQUIREMENTS OF DIVISION 26.

7. MECHANICAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE PROTECTION OF STORED MATERIALS AND EQUIPMENT FOR THE DURATION OF THE PROJECT. PROVIDE PROTECTIVE COVER OVER EQUIPMENT TO ENSURE AGAINST WATER AND DUST DAMAGE AND PROVIDE SUITABLE PALLETS BETWEEN EQUIPMENT AND MATERIALS STORED ON GROUND.

8. IN THE EVENT THAT IT BECOMES NECESSARY FOR THE AIR CONDITIONING EQUIPMENT TO BE TURNED ON FOR BUILDING DEHUMIDIFICATION DURING THE FINAL PHASES OF CONSTRUCTION, IMPLEMENT ALL PRECAUTIONS TO PROTECT THE EVAPORATOR COILS FROM DUST AND FOREIGN MATERIALS . A COMPLETE CHANGE OF FILTERS WILL BE REQUIRED PRIOR TO TESTING AND BALANCING THE SYSTEM.

9. MECHANICAL CONTRACTOR SHALL COORDINATE OPENINGS IN WALLS WITH MECHANICAL EQUIPMENT REQUIREMENTS.

SEQUENCE OF OPERATIONS:

A. THE COMBINATION LEAD/LAG CONTROLLER (LLC) AND THERMOSTAT SHALL AUTOMATICALLY OPERATE THE AC SYSTEMS. NORMALLY THE LEAD AC UNIT WILL RUN IN THE AUTOMATIC COOLING/FAN MODE TO COOL THE BUILDING TO THE SPECIFIED DESIGN TEMPERATURE AND THE LAG AC UNIT WILL REMAIN IN STANDBY MODE.
   1. ON A CALL FOR COOLING, THE LEAD AC UNIT WILL OPERATE IN AUTOMATIC COOLING/FAN MODE ADJUSTING CAPACITY TO MAINTAIN THE BUILDING TEMPERATURE AT THE PROGRAMMED THERMOSTAT SET POINT. WHEN THE BUILDING TEMPERATURE DROPS BELOW THE SET POINT, THE LEAD UNIT COMPRESSOR AND SUPPLY FAN WILL SHUT OFF. UPON A SUBSEQUENT CALL FOR COOLING THE PROCESS WILL REPEAT.
   2. IF THE TEMPERATURE RISES 7.2 DEGREES FAHRENHEIT ABOVE SET POINT WHEN THE LEAD UNIT IS OPERATING, THEN THE CONTROLLER/THERMOSTAT WILL START THE LAG UNIT. THE LEAD AND THE LAG UNIT WILL CONTINUE TO OPERATE TO MAINTAIN THE BUILDING TEMPERATURE AT THE PROGRAMMED THERMOSTAT SET POINT. WHEN THE BUILDING TEMPERATURE DROPS BELOW THE SET POINT, THE LAG UNIT COMPRESSOR AND SUPPLY FAN WILL SHUT OFF. UPON A SUBSEQUENT CALL FOR COOLING THE PROCESS WILL REPEAT.

B. SYSTEM SET POINTS: THE AC CONTROL SYSTEM SHALL MAINTAIN THE BUILDING AT 75 DEGREES FAHRENHEIT DRY BULB, PLUS OR MINUS 2 DEGREES. THE LEAD/LAG CHANGEOVER SHALL BE PROGRAMMED TO AUTOMATICALLY ALTERNATE THE LEAD/LAG UNITS EVERY 7 DAYS.

C. THE CONTRACTOR SHALL MAKE ALL REQUIRED COMPONENT / CONTROL ADJUSTMENTS TO OPERATE SYSTEM AS NOTED ABOVE. COORDINATE WITH MANUFACTURER FOR RECOMMENDED SETTING ADJUSTMENTS.

D. THE ADJUSTABLE FACTORY TIME DELAY FOR COMPRESSOR SHORT CYCLE PROTECTION SHALL BE SET DIFFERENTLY FOR EACH UNIT TO PREVENT SIMULTANEOUS START-UP OF THE UNITS FOLLOWING THE LOSS OF PRIMARY POWER.

E. IF THE LEAD UNIT FAILS TO OPERATE THE LAG UNIT WILL SWITCH TO LEAD AND RUN IN AUTOMATIC COOLING/FAN MODE ADJUSTING CAPACITY TO MAINTAIN THE BUILDING TEMPERATURE AT THE PROGRAMMED THERMOSTAT SET POINT.

DESIGN CONDITIONS SCHEDULE

ATLANTA GEORGIA	SUMMER		WINTER
	DB(°F)	WB(°F)	DB(°F)
INDOOR	75	62.5	18.0
OUTDOOR	95.4	77.7	22.6

PER ASHRAE FUNDAMENTALS HANDBOOK

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

REFERENCE MANUFACTURER OR APPROVED EQUAL	MITSUBISHI
COOLING CAPACITY	
RATED/TOTAL CAPACITY (MBH)	36.0
SENSIBLE CAPACITY (MBH)	25.2
VARIABLE CAPACITY RANGE (MBH)	16.0 - 36.0
HEATING CAPACITY AT 17 F	
MAXIMUM CAPACITY (MBH)	25.9
RATED CAPACITY (MBH)	22.4
SYSTEM EFFICIENCY, REFRIGERANT AND ELECTRICAL	
MINIMUM SYSTEM SEER/EER	18.8 / 10.8
HSPF (IV)	9.20
COP AT 17 F	2.51
SYSTEM ELECTRICAL REQUIREMENTS (VOLTS/PHASE/HERTZ)	208/1/60
MCA INDOOR/OUTDOOR (AMPS)	1 / 25
INDOOR WALL MOUNTED AIR HANDLING UNIT (AHU)	
EQUIPMENT TAG	AHU-1 & 2
REFERENCE MODEL NUMBER	PKA-A36-KA7
TOTAL SUPPLY/OUTSIDE AIR FLOW (CFM)	830/0
SUPPLY AIR FLOW RATES (LOW-MED-HIGH) WET COIL	635/730/830
BLOWER MOTOR FLA (AMPS)	0.57
BLOWER MOTOR OUTPUT (WATTS)	56
MOISTURE REMOVAL (PINTS/HOUR)	9.70
FILTER	WASHABLE
UNIT WEIGHT (LBS)	46
OUTDOOR HEAT PUMP UNIT (HP)	
EQUIPMENT TAG	HP-1 & 2
REFERENCE MODEL NUMBER	PUZ-A36NKA7-BS
COMPRESSORS DRIVE	DC INVERTER
COMPRESSOR TYPE	TWIN ROTORY
FAN MOTOR FLA (AMPS) / FAN MOTOR OUTPUT (WATTS)	0.5 + 0.5 / 74 + 74
MOCP (AMPS)	30
RATED OUTDOOR AMBIENT TEMP. (°F)	95
UNIT WEIGHT (LBS)	214
REFRIGERANT / PIPING	
REFRIGERANT TYPE	R410A
GAS PIPE SIZE O.D. (FLARED)	5/8"
LIQUID PIPE SIZE O.D. (FLARED)	3/8"
MAXIMUM PIPING LENGTH/HEIGHT DIFF/NO. OF BENDS	165/100/15
NOTES	1-6

SCHEDULE NOTES:

1. PROVIDE WITH SINGLE POINT POWER CONNECTION AT THE OUTDOOR UNIT. INDOOR UNIT POWER SUPPLIED FROM OUTDOOR UNIT.
2. PROVIDE OUTDOOR HEAT PUMP UNITS WITH MANUFACTURER'S SEACOAST PROTECTION PACKAGE.
3. PROVIDE MANUFACTURERS DUAL UNIT AC CONTROLLER FOR LEAD/LAG SEQUENCING. CONTROLLER SHALL HAVE A SOLID STATE TIMER WITH AUTO SEQUENCING. MODEL PAR-33MAA-J OR APPROVED EQUAL.
4. PROVIDE RIGID CONDUIT (EMT) FOR ALL CONTROL WIRING.
5. PROVIDE ENGRAVED PLASTIC EQUIPMENT NAMEPLATES.
6. PRODUCT MANUFACTURER MITSUBISHI OR APPROVED EQUAL

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 27359 PROFESSIONAL ENGINEER THOMAS J. FARMER

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

MECHANICAL SCHEDULE AND NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

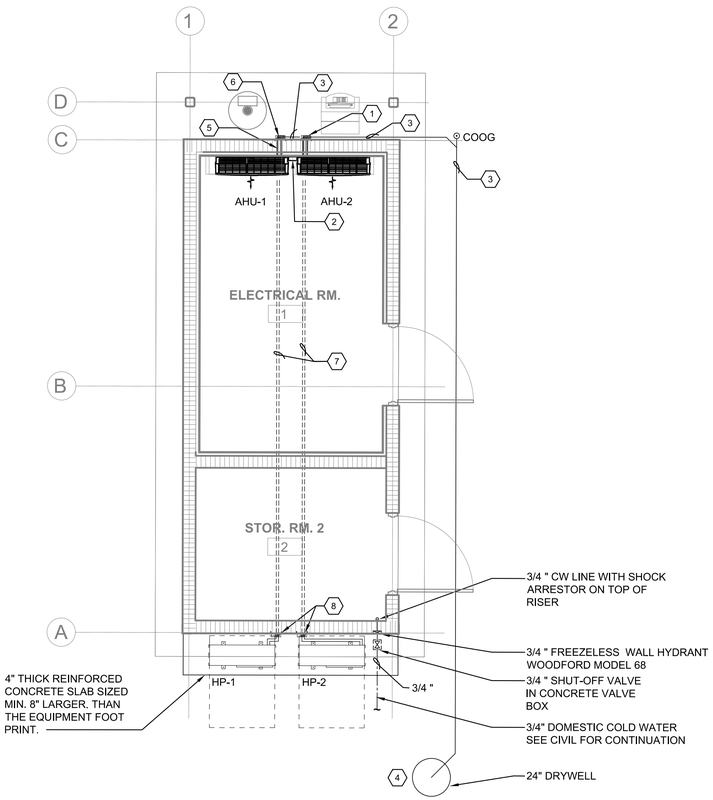
CHECKED:	DC	DATE:	02-05-20	DRAWING No.
BACKCHECKED:	PR	DATE:	02-06-20	37-3001
CORRECTED:	PR	DATE:	02-06-20	
VERIFIED:	DC	DATE:	02-06-20	

MECHANICAL LEGEND

	AIR FLOW
XX-X	EQUIPMENT IDENTIFICATION
CD	CONDENSATE DRAIN
AHU	AIR HANDLER UNIT
HP	HEAT PUMP UNIT
CFM	CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
COOG	CLEAN-OUT ON GRADE
1	KEYED NOTE. REFERS TO CONSTRUCTION NOTES.
A / -	SECTION LETTER / SECTION SYMBOL / SHEET WHERE SECTION IS SHOWN
1 / -	DETAIL NUMBER / DETAIL SYMBOL / SHEET WHERE DETAIL IS SHOWN

NOTES:

1. AC UNIT CONDENSATE DRAIN LINE. UNIT PROVIDED WITH INTERNAL DRAIN TRAP. EXTERNAL TRAP NOT REQUIRED. INDIRECT WASTE TO 2" CONDENSATE RECEPTOR WITH AIR GAP. TYPICAL OF 2.
2. DUAL UNIT CONTROLLER WITH INTEGRAL THERMOSTAT AND TIMER. INSTALL CONTROLLER AT 84" AFF.
3. 2"Ø SCHEDULE 40 PVC CONDENSATE DRAIN LINE BELOW GRADE, MINIMUM SLOPE SHALL BE ¼" PER FOOT.
4. CONTRACTOR SHALL COORDINATE WITH CIVIL SITE AND GRADING PLANS, UTILITY PLANS AND ALL OTHER TRADES FOR THE EXACT LOCATION OF CONDENSATE DRY WELL.
5. 2 1/2" SLOPED PIPE SLEEVE FOR REFRIGERANT AND CONDENSATE PIPING. COORDINATE PENETRATION WITH AC UNIT MANUFACTURER'S REQUIREMENTS PRIOR TO OPENING THE SLEEVE. TYPICAL OF 2.
6. GALVANIZED STEEL PIPING COVER PLATE PAINTED TO MATCH WALL COLOR. TURN IN ABOVE CONCRETE ROOF SLAB AND DOWN WALL TO 8" BELOW WALL PIPE PENETRATION. ENSURE ALL REVEAL CROSSINGS AND FITTING ENDS ARE SEALED TO PREVENT WATER INTRUSION. TYPICAL OF 2.
7. RUN REFRIGERANT PIPING - 5/8 " GAS AND 3/8 " LIQUID AND ELECTRICAL TO AHU-1 AND AHU-2 ABOVE CONCRETE ROOF SLAB. INSTALL ON GALVANIZED STEEL PIPING COVER PLATE PAINTED TO MATCH WALL COLOR. SEE DETAIL 1 ON SHEET 37-3501
8. GALVANIZED STEEL PIPING COVER PLATE PAINTED TO MATCH WALL COLOR. TURN DOWN FROM ABOVE CONCRETE ROOF SLAB AND DOWN WALL TO 24" A.F.G. ENSURE ALL REVEAL CROSSINGS AND FITTING ENDS ARE SEALED TO PREVENT WATER INTRUSION. TYPICAL OF 2.



CASE NUMBER : 2020-00316

MAINTENANCE BUILDING MECHANICAL PLAN

SCALE : 1/4" = 1'-0"

GEORGIA REGISTERED No. 27399 PROFESSIONAL ENGINEER THOMAS J. FARMER

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Expiration Date 06/30/2022

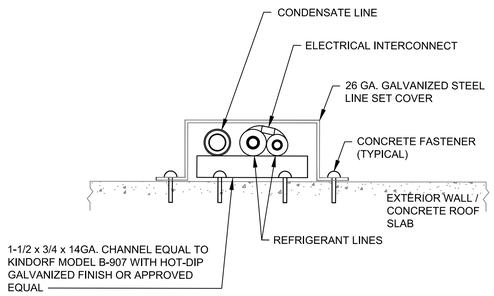
4 2 0 4 8
(IN FEET)
1 inch = 4 ft.

REVISION DATES

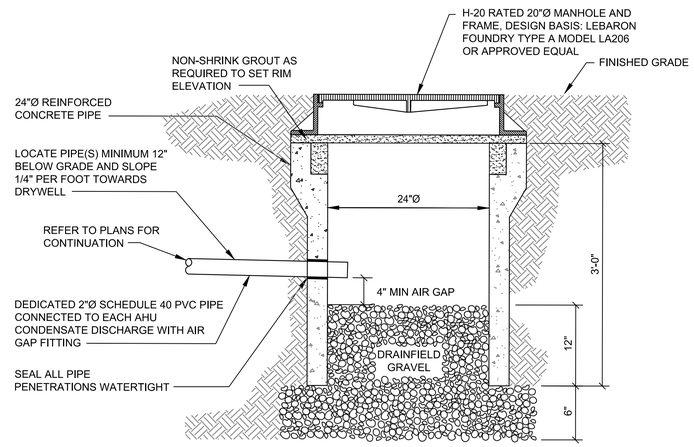
MECHANICAL FLOOR PLAN LEGEND AND NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

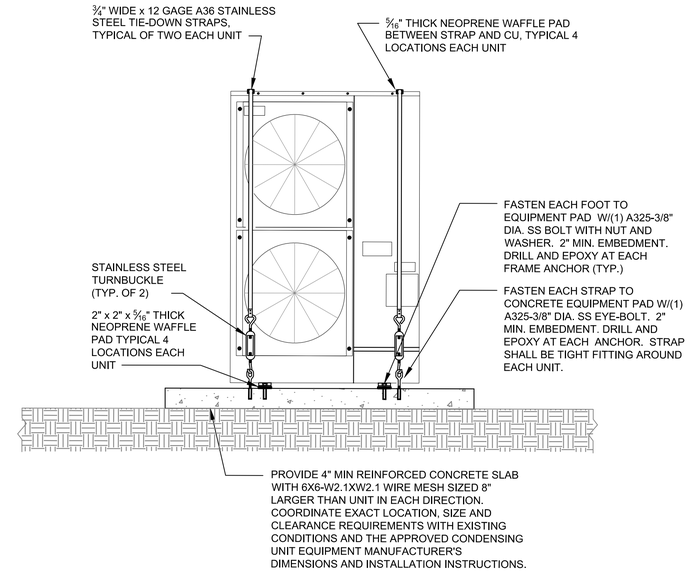
CHECKED:	DC	DATE:	02-05-20	DRAWING No.
BACKCHECKED:	PR	DATE:	02-06-20	37-3101
CORRECTED:	PR	DATE:	02-06-20	
VERIFIED:	DC	DATE:	02-06-20	



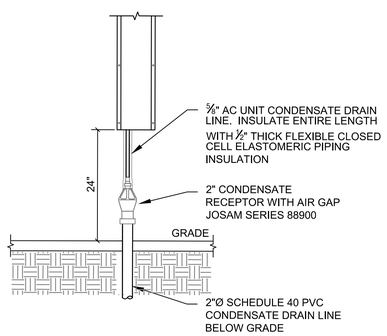
1 / 37-3501 LINE SET COVER DETAIL
SCALE: NTS



2 / 37-3501 CONDENSATE DRYWELL DETAIL
SCALE: NTS



3 / 37-3501 CONDENSING / HEAT PUMP UNIT MOUNTING DETAIL
SCALE: NTS



4 / 37-3501 CONDENSATE DRAIN CONNECTION DETAIL
SCALE: NTS

CASE NUMBER : 2020-00316

GEORGIA REGISTERED No. 27358 PROFESSIONAL ENGINEER THOMAS J. FARMER

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

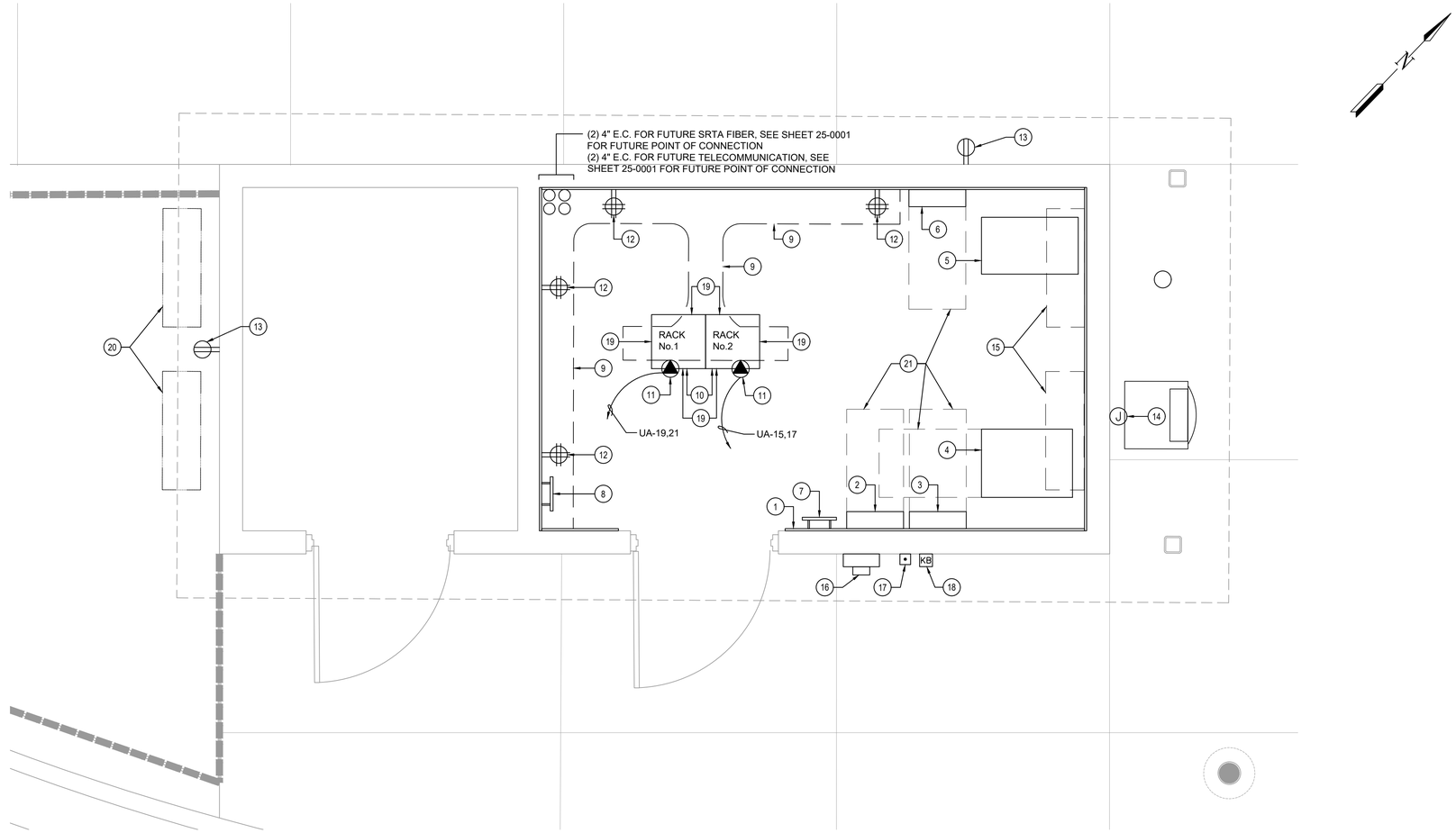
MECHANICAL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:	DC	DATE:	02-05-20	DRAWING No.
BACKCHECKED:	PR	DATE:	02-06-20	37-3501
CORRECTED:	PR	DATE:	02-06-20	
VERIFIED:	DC	DATE:	02-06-20	

NOTES:

1. 3/4" THICK MARINE PLYWOOD TYPE A/C AROUND ENTIRE ROOM
2. PANEL HA
3. PANEL LA
4. 112.5 KVA TRANSFORMER
5. 18 KW UPS
6. PANEL UA
7. MAIN ELECTRICAL GROUND BAR (MGB)
8. TELECOMMUNICATION MAIN GROUND BAR (TMGB)
9. 12" x 3" LADDER TYPE CABLE TRAY
10. 19" 4-POST RACK
11. 30A, 208V, NEMA L6-30R MOUNTED ON CABLE TRAY
12. 20 AMP, 120V, QUADRUPLEX RECEPTACLE
13. 20 AMP, 120V, GFI DUPLEX IN A WATER RESISTANCE COVER
14. BREEZE UNIT OUTLET
15. DUCTLESS MINI-SPLIT UNIT
16. KWH METER
17. KEYED OPERATED SHUNT TRIP PUSH BUTTON 6'-0" A.F.F.
18. PROVIDE KNOX-BOX APPROVED BY THE FIRE DEPARTMENT TO STORE SHUNT TRIP KEY
19. MINIMUM CLEARANCE AROUND DATA RACK SHALL BE 3'-0".
20. HEAT PUMP COMPRESSOR
21. NEC CODE CLEARANCE REQUIREMENT



FOR FIRE DEPT. USE ONLY

10" x 10" ALUMINUM SIGN WITH RED LETTERS ON WHITE BACKGROUND

KEY OPERATED SWITCH (SQUARE "D" TYPE KY-192 OR APPROVED EQUAL) IN NEMA 3R SURFACE MOUNTED 6'-0" AFG. PROVIDE NAMEPLATE "POWER SHUT-OFF".

KNOX-BOX NEMA 3R SURFACE MOUNTED 5'-4" AFG TO HOUSE KEY FOR THE POWER SHUT-OFF STATION.

ENLARGED MAINTENANCE BUILDING ELECTRICAL EQUIPMENT PLAN

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

CASE NUMBER : 2020-00316

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 29486 PEDRO L. TREVIN

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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

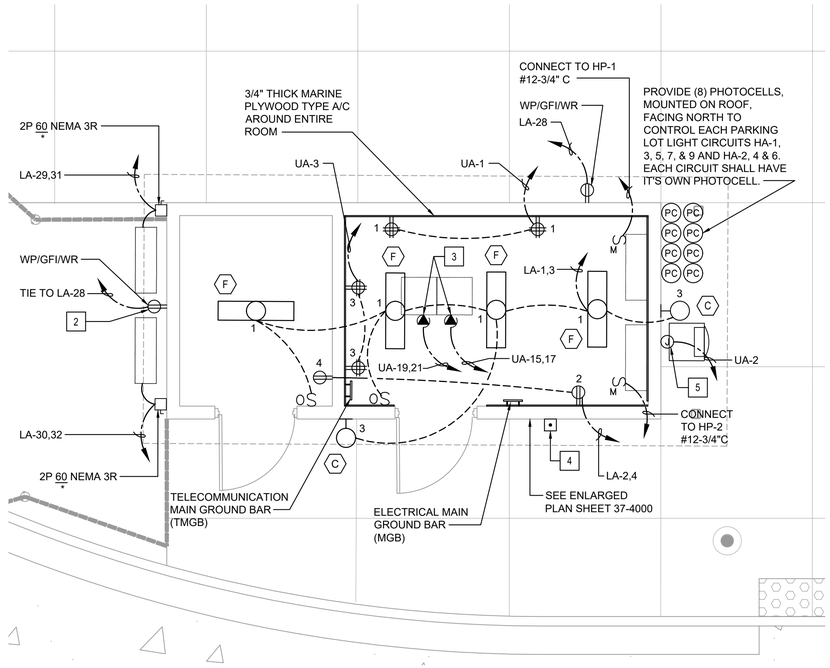
2 1 0 2 4
(IN FEET)
1 inch = 2 ft.

REVISION DATES		
08/26/2021		

ENLARGED MAINTENANCE BUILDING ELECTRICAL EQUIPMENT PLAN

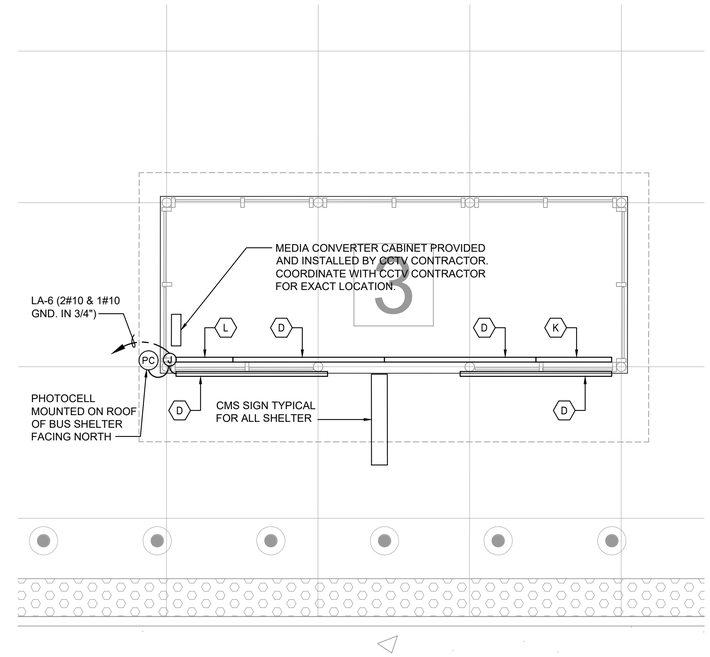
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		37-4000
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



ENLARGED MAINTENANCE BUILDING ELECTRICAL EQUIPMENT PLAN

SCALE : 1/4" = 1'-0"



ENLARGED BUS SHELTER ELECTRICAL PLAN (TYP. OF 6)

SCALE : 1/4" = 1'-0"

NOTES:

1. * DENOTES FUSED PER MANUFACTURER RECOMMENDATIONS.
2. PRIOR TO INSTALLATION COORDINATE EXACT LOCATION AND MOUNTING WITH MECHANICAL EQUIPMENT.
3. SPECIAL PURPOSE OUTLET MOUNTED ON CABLE TRAY TO POWER EQUIPMENT RACK BELOW.
4. KEYED OPERATED SHUNT TRIP.
5. JUNCTION BOX FOR BREEZE TICKET. COORDINATE WITH CCTV / SYSTEMS CONTRACTOR FOR EXACT LOCATION AND MOUNTING.

NOTE:

EACH BUS SHELTER TO HAVE PHOTOCELL.

CASE NUMBER : 2020-00316

LEGEND

LIGHT FIXTURE TYPE DESIGNATION.
A: DENOTES FIXTURE TYPE.
SEE LIGHTING FIXTURE SCHEDULE.

(A)

GEORGIA REGISTERED No. 29486 PROFESSIONAL ENGINEER PEDRO L. TREVIN
08/26/21

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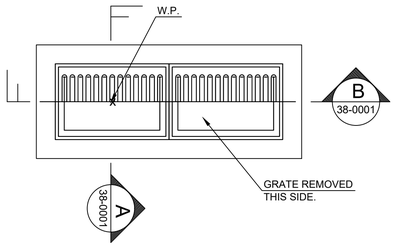
4 2 0 4 8
(IN FEET)
1 inch = 4 ft.

REVISION DATES		
08/26/2021		

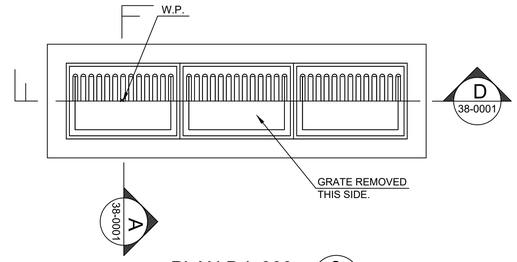
MAINTENANCE BUILDING AND BUS SHELTER ELECTRICAL PLANS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

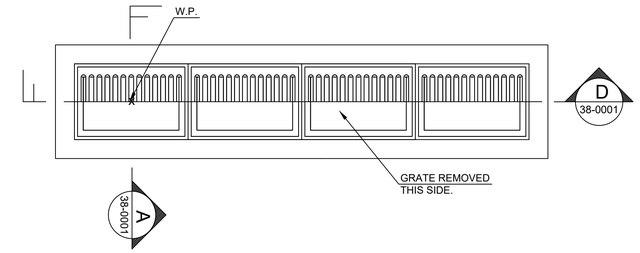
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		37-4001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



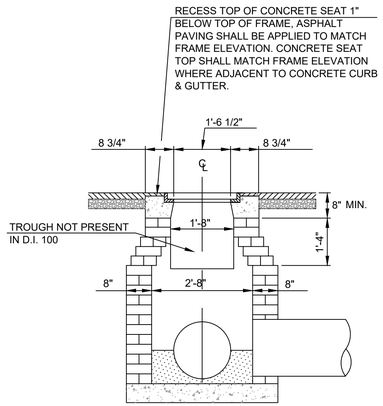
PLAN D.I. 200 (1 / 38-0001)
SCALE : 1/2"=1'-0"



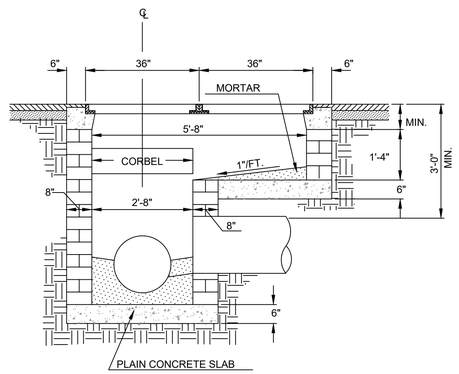
PLAN D.I. 300 (2 / 38-0001)
SCALE : 1/2"=1'-0"



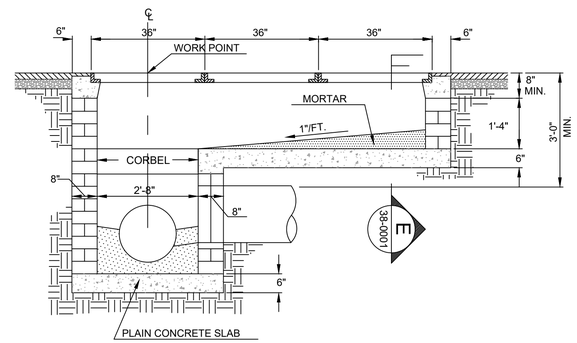
PLAN D.I. 400 (3 / 38-0001)
SCALE : 1/2"=1'-0"



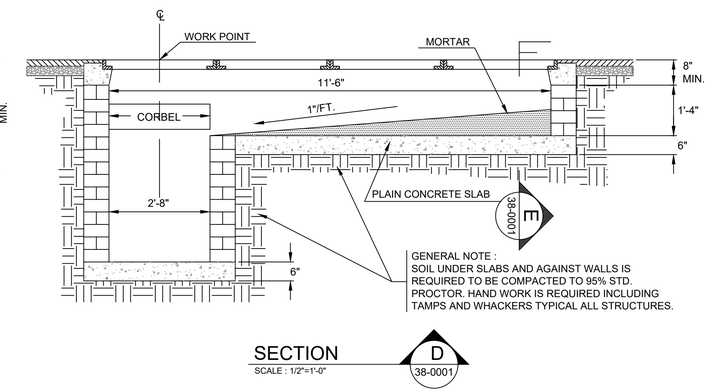
SECTION (A / 38-0001)
SCALE : 1/2"=1'-0"



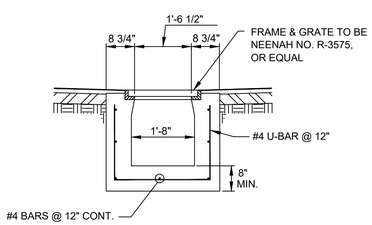
SECTION (B / 38-0001)
SCALE : 1/2"=1'-0"



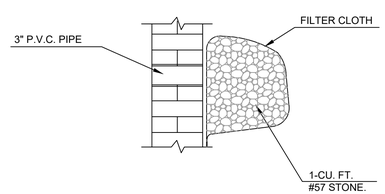
SECTION (C / 38-0001)
SCALE : 1/2"=1'-0"



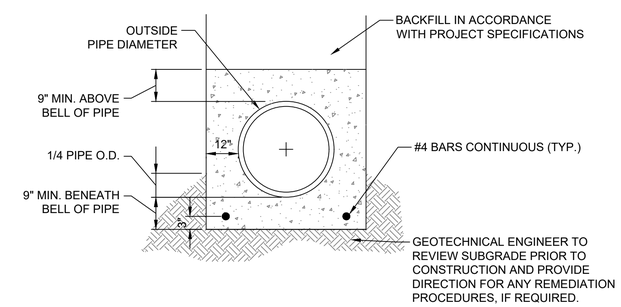
SECTION (D / 38-0001)
SCALE : 1/2"=1'-0"



SECTION (E / 38-0001)
SCALE : 1/2"=1'-0"



DETAIL OF WEEPHOLE (4 / 38-0001)
SCALE : 1"=1'-0"



CONCRETE CLASS 'A' BEDDING DETAIL (5 / 38-0001)
SCALE : NTS

CASE NUMBER : 2020-00316

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Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

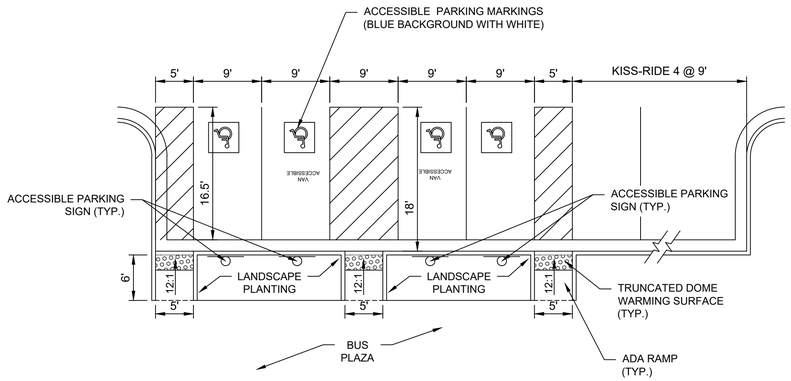
GEORGE N. KARUNAS No. 21371 PROFESSIONAL ENGINEER 8/26/2021

REVISION DATES		
11/20/2020		
08/26/2021		

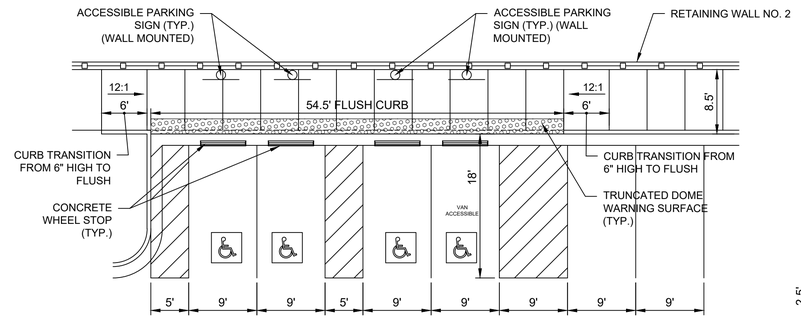
SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

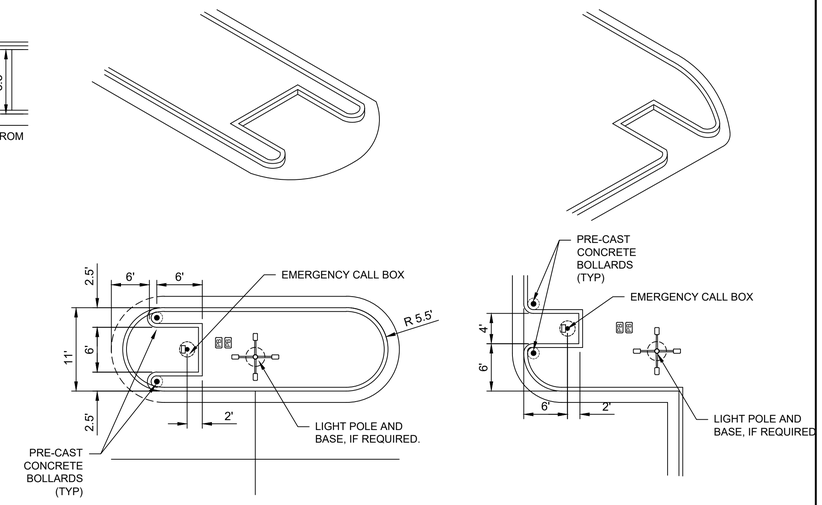
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

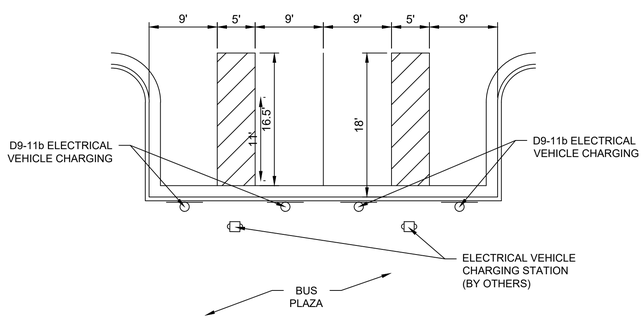


ACCESSIBLE PARKING LAYOUT (1 / 38-0002)
SCALE : 3/8"=1'-0"

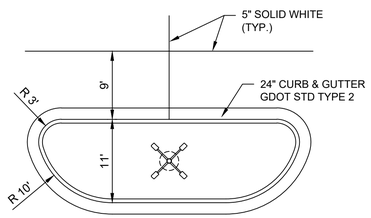




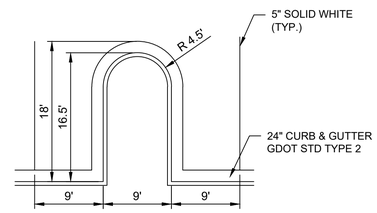
EMERGENCY CALL BOX LOCATION (4 / 38-0002)
SCALE : 3/8"=1'-0"



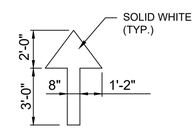
EV CHARGING PARKING LAYOUT (2 / 38-0002)
SCALE : 3/8"=1'-0"



CURB & GUTTER END ISLAND TYPE A



PERIMETER LANDSCAPE ISLAND



PAVEMENT MARKING - DIRECTIONAL ARROW (5 / 38-0002)

CASE NUMBER : 2020-00316

PROFESSIONAL ENGINEER No. 21371 8/26/2021 GEORGE N. KARUNIS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

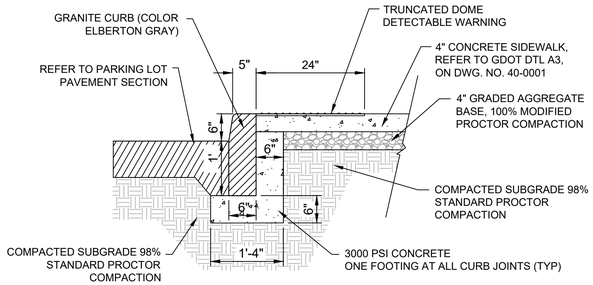
REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

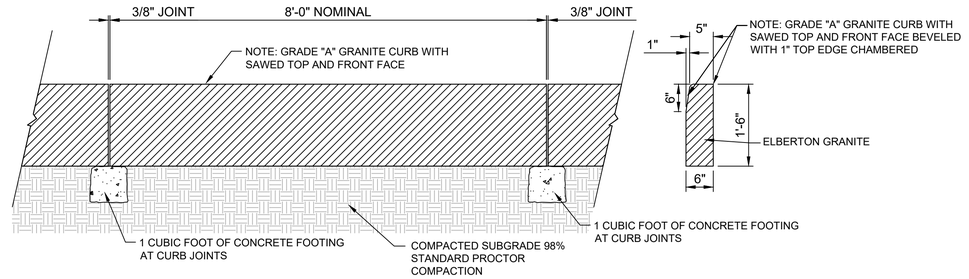
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CONTRACTOR TO PROVIDE SAMPLE OF ELBERTON GRANITE CURB FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO ORDERING AND INSTALLING.



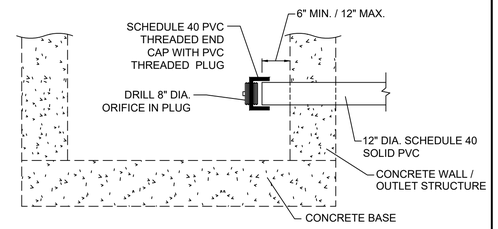
GRANITE CURB DETAIL (1 / 38-0003)

SCALE : NTS



TYPICAL GRANITE CURB SECTION (2 / 38-0003)

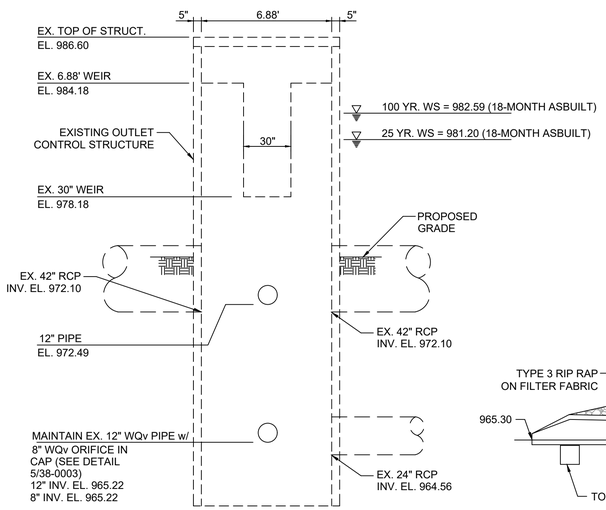
SCALE : NTS



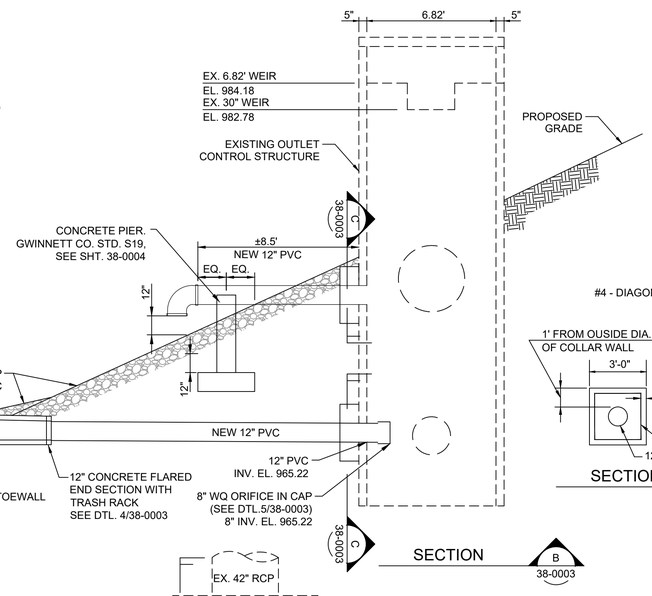
NOTE: FILL GAP BETWEEN STRUCTURE & PVC WITH MORTAR OR INSTALL A FERNCO ADAPTER.

WATER QUALITY ORIFICE END-CAP (5 / 38-0003)

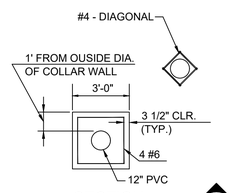
SCALE : N.T.S.



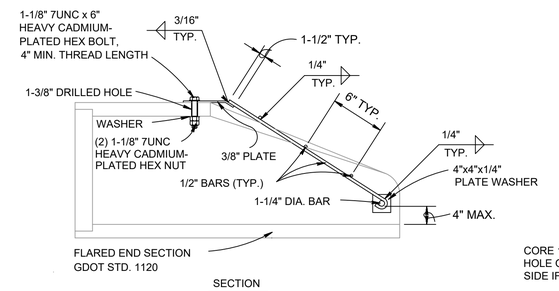
SECTION A / 38-0003



SECTION B / 38-0003

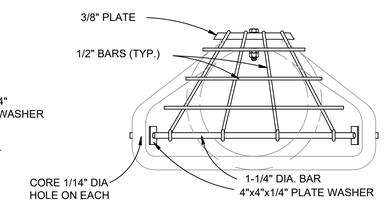


SECTION C / 38-0003



SECTION

SECTION D / 38-0003

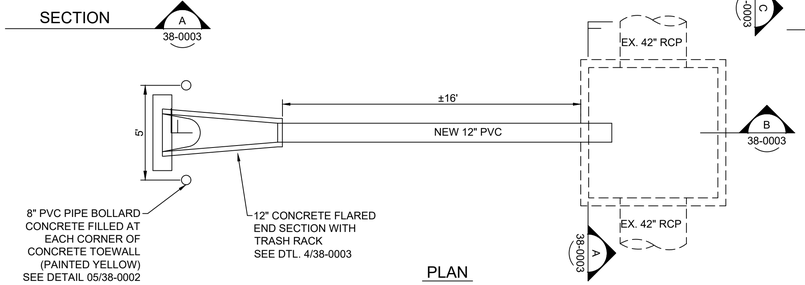


ELEVATION

SECTION E / 38-0003

NOTES:

1. TACK WELD WASHER TO PLATE AND BOLT TO WASHER. TACK WELD NUT TO BOLT ON UNDERSIDE.
2. ALL STEEL BARS AND PLATES SHALL BE GALVANIZED WITH 2.0 OUNCES OF ZINC PER SQUARE FOOT.
3. ALL 1/2" DIAMETER STEEL BARS SHALL BE WELDED TOGETHER. EACH 1/2" STEEL BAR SHALL ALSO BE WELDED TO THE 3/8" STEEL PLATE AND 1-1/4" STEEL BAR AS SHOWN.
4. ALL CONNECTIONS SHALL BE STAINLESS STEEL.



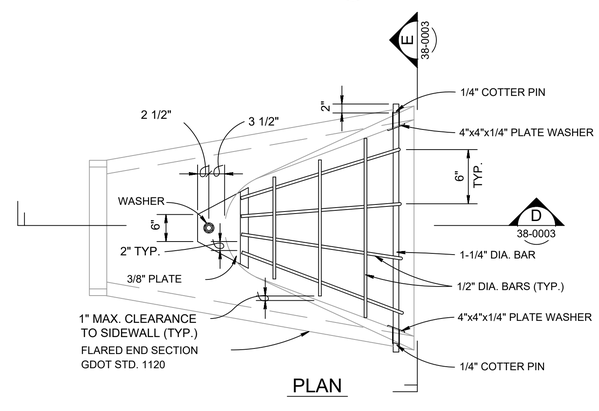
PLAN

GENERAL NOTES

1. MODIFICATIONS TO THE EXISTING STRUCTURE INCLUDE 12" PVC PIPE EXTENSIONS TO ALLOW PROPER BACKFILL AND STABILIZATION OF EMBANKMENT IN FRONT OF OUTLET CONTROL STRUCTURE.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING ORIFICE AND WEIR ELEVATIONS AND REPORT FINDINGS TO ENGINEER PRIOR TO CONSTRUCTION.

MODIFICATIONS TO EXISTING OUTLET CONTROL STRUCTURE (3 / 38-0003)

SCALE : 1/4" = 1'-0



PLAN

FLARED END SECTION TRASH RACK (4 / 38-0003)

SCALE : N.T.S.

CASE NUMBER : 2020-00316

REGISTERED PROFESSIONAL ENGINEER NO. 21371 8/26/2021 GEORGE N. KAFUNKS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

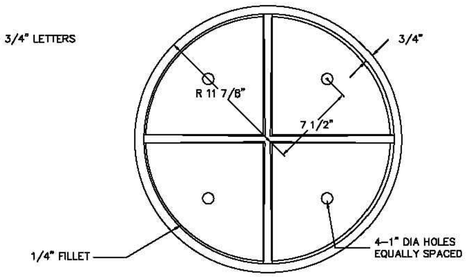
REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

SPECIAL CONSTRUCTION DETAILS CIVIL DETAILS

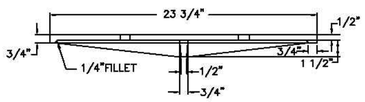
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

TOP VIEW



BOTTOM VIEW

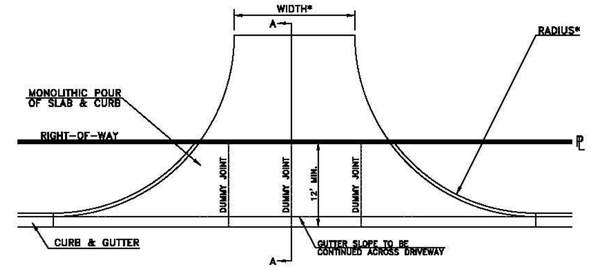


COVER SECTION

NOTES:

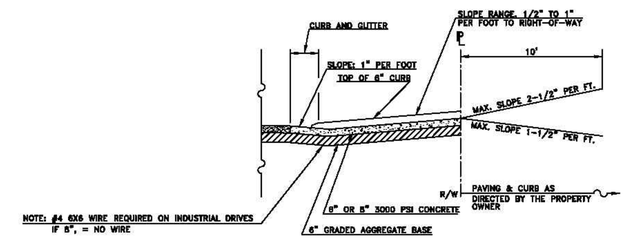
- Approximate Weight: C.I. Cover 63 lbs.
- Load Rating: Non-Traffic
- Engraving Depth Max.: 3/16"

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
Manhole Castings - Non Traffic Areas
DATE: NOVEMBER 2000 SHEET: 811



* SEE DRIVEWAY DETAILS FOR WIDTH AND RADIUS

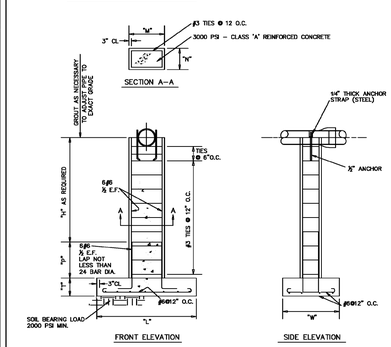
PLAN



SECTION A-A

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
Commercial and Industrial Driveways
DATE: JANUARY 1988 SHEET: 213

"H"=	0-5	5-10	10-15	15-20
"W"=	3	4	5	6
"L"=	4	5	7	10
"T"=	1	1	1.5	2
"N"=	1	1	1.5	1.5
"M"=	2	3	4	5
"P"=	2	3	4	5



NOTES:

1. ABOVE DETAIL IS THE MINIMUM ACCEPTABLE. SITE CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS.
2. ALTERNATE DESIGNS MAY BE SUBMITTED.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE
DRAWN BY: GCDWR
CHECKED BY: PSD
APPROVED BY: ARS
SCALE: NONE

CONCRETE PIER AND FOOTING

DRAWING NO. **S19**

CASE NUMBER : 2020-00316

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

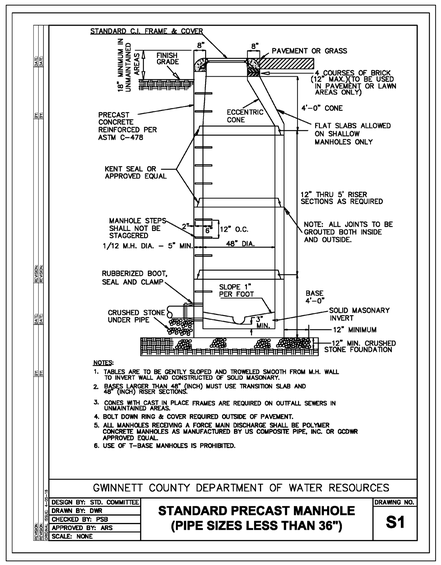
REVISION DATES

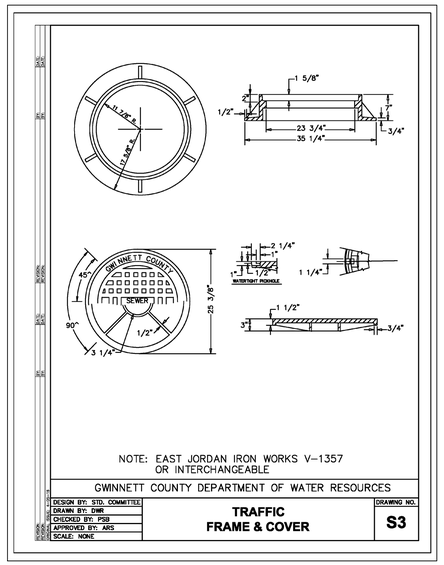
11/20/2020		
05/14/2021		
08/26/2021		

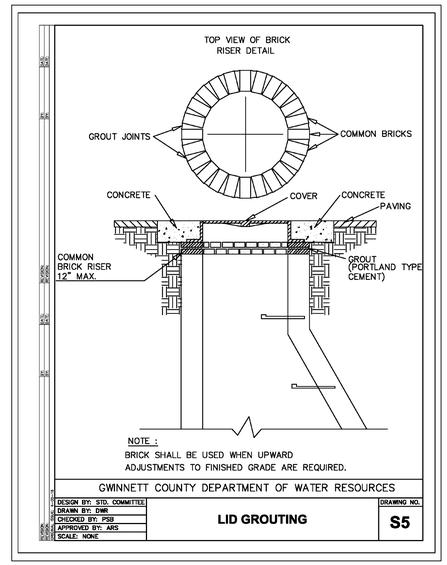
SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

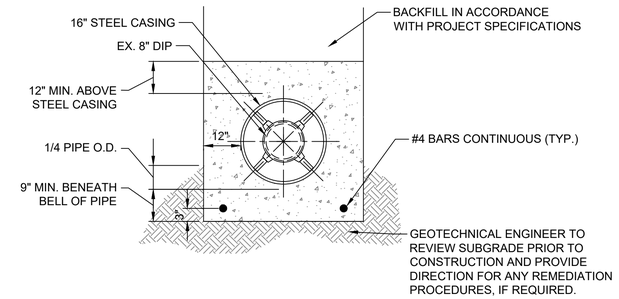
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		





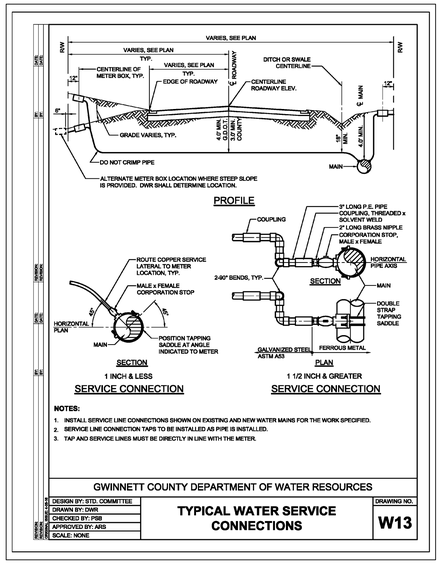


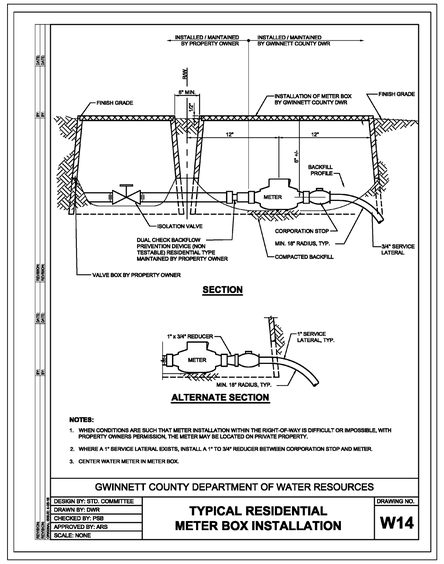


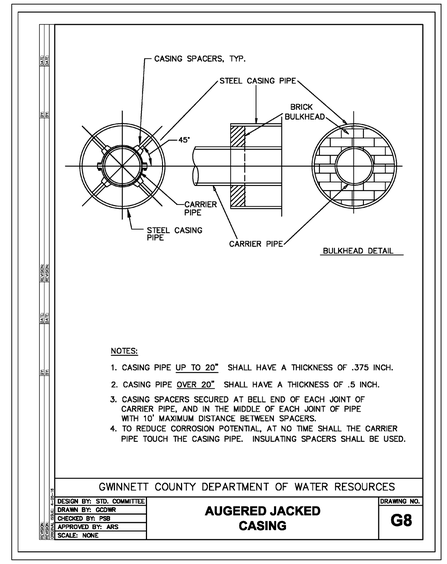
STEEL CASING AND CONCRETE ENCASEMENT FOR SANITARY SEWER

SCALE : NTS

1
38-0005







CASE NUMBER : 2020-00316

REVISION DATES

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08/26/2021		

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SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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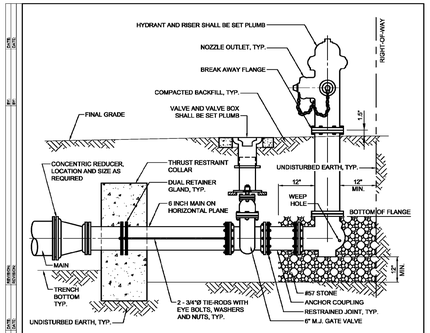
VERIFIED:		DATE:		



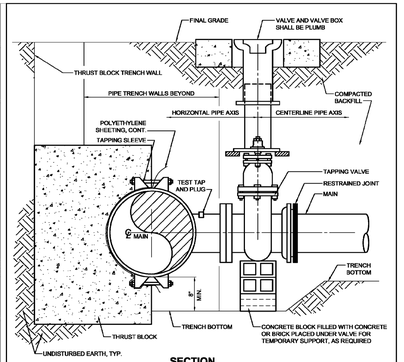
SECTION

NOTES:

1. REFER TO TYPICAL TIE-ROD THRUST RESTRAINT DRAWING G14 FOR ADDITIONAL DETAILS.
2. REFER TO TYPICAL THRUST RESTRAINT COLLAR G13 DRAWING FOR ADDITIONAL DETAILS.
3. REFER TO TYPICAL CUL-DE-SAC STREET PLAN W3 FOR ORIENTATION.
4. REFER TO TYPICAL VALVE BOX DRAWING W9 FOR ADDITONAL DETAILS.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL DEAD END STREET TERMINATION	DRAWING NO. W4
DRAWN BY: DWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



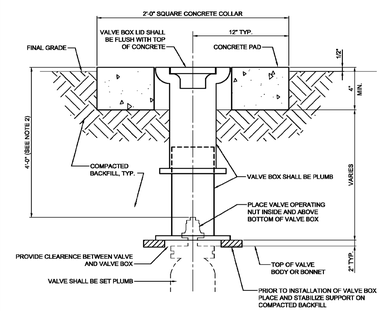
SECTION

NOTES:

1. TEMPORARILY SUPPORT TAPPING SLEEVE AND VALVE PRIOR TO HYDROSTATIC TESTING AND UPON ACCEPTANCE OF TEST THEN CONCRETE MAY BE INSTALLED AS SHOWN.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING G11 FOR ADDITIONAL DETAILS.
3. REFER TO TYPICAL VALVE BOX INSTALLATION DRAWING W9 FOR ADDITIONAL DETAILS.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL TAPPING SLEEVE AND VALVE INSTALLATION	DRAWING NO. W7
DRAWN BY: DWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		

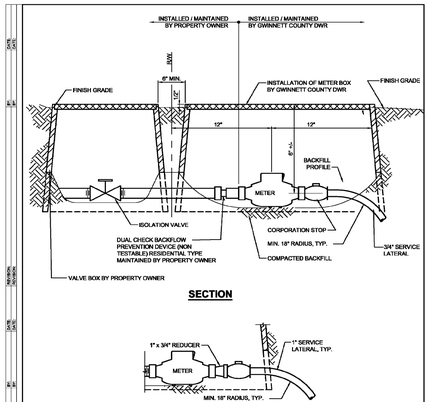


SECTION

1. SLIP-TYPE VALVE BOXES ***ONLY (NO EXCEPTIONS).***
2. WHERE DEPTH OF COVER IS MORE THAN 5 FEET, CONTRACTOR SHALL PROVIDE SUITABLE, PERMANENTLY INSTALLED VALVE STEM EXTENSION AND GUIDE AT NO EXTRA COST TO GCDWR.
3. USE 6" SDR 35 PVC PIPE FOR DEEP EXTENSIONS.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL VALVE BOX INSTALLATION	DRAWING NO. W9
DRAWN BY: DWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



SECTION

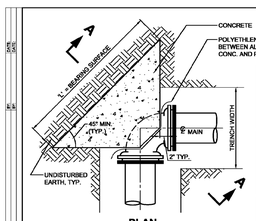
ALTERNATE SECTION

NOTES:

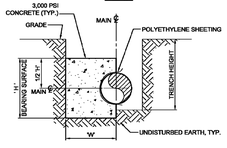
1. WHEN CONDITIONS ARE SUCH THAT METER INSTALLATION WITHIN THE RIGHT-OF-WAY IS DIFFICULT OR IMPOSSIBLE, WITH PROPERTY OWNER'S PERMISSION, THE METER MAY BE LOCATED ON PRIVATE PROPERTY.
2. WHERE A 1" SERVICE LATERAL EXISTS, INSTALL A 1" TO 3/4" REDUCER BETWEEN CORPORATION STOP AND METER.
3. CENTER WATER METER IN METER BOX.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL RESIDENTIAL METER BOX INSTALLATION	DRAWING NO. W14
DRAWN BY: DWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



PLAN



SECTION A-A

BEND	MAIN SIZE	DIMENSION (FT.) 'H'	'L'	'W'	CONC. VOLUME (C. Y.)	THRUST (LBS.)
11 1/4°	4	1.00	1.00	1.67	0.05	887
	6	1.00	1.00	1.67	0.05	1,577
	8	1.00	1.50	1.67	0.07	2,814
	10	1.25	1.75	1.67	0.11	4,306
	12	1.67	2.00	1.67	0.17	6,150
	16	2.00	2.75	1.67	0.28	10,751

BEND	MAIN SIZE	DIMENSION (FT.) 'H'	'L'	'W'	CONC. VOLUME (C. Y.)	THRUST (LBS.)
22 1/2°	4	1.00	1.00	1.67	0.05	1,765
	6	1.33	1.50	1.67	0.10	3,647
	8	1.67	2.00	1.67	0.15	6,275
	10	2.00	2.50	1.67	0.22	9,439
	12	2.50	2.75	2.00	0.37	13,349
	16	3.00	4.00	2.00	0.59	23,195

BEND	MAIN SIZE	DIMENSION (FT.) 'H'	'L'	'W'	CONC. VOLUME (C. Y.)	THRUST (LBS.)
45°	4	1.00	1.75	1.67	0.07	3,462
	6	1.67	2.33	1.67	0.19	7,150
	8	2.50	2.50	1.67	0.28	12,908
	10	2.67	3.50	1.67	0.37	18,516
	12	3.33	4.00	2.00	0.64	26,185
	16	4.00	5.75	2.50	1.22	45,499

BEND	MAIN SIZE	DIMENSION (FT.) 'H'	'L'	'W'	CONC. VOLUME (C. Y.)	THRUST (LBS.)
90°	4	1.67	2.00	1.67	0.14	6,398
	6	2.25	3.00	1.67	0.27	13,721
	8	2.50	3.50	1.67	0.42	22,500
	10	3.33	4.25	2.00	0.85	34,243
	12	3.67	5.67	2.75	1.51	48,383
	16	4.50	6.50	3.75	3.76	64,070

BEND	MAIN SIZE	DIMENSION (FT.) 'H'	'L'	'W'	CONC. VOLUME (C. Y.)	THRUST (LBS.)
TEE & CAPS	4	1.33	1.75	1.67	0.12	4,524
	6	2.00	2.50	1.67	0.24	9,348
	8	2.33	3.50	1.67	0.36	16,082
	10	2.67	4.67	1.67	0.54	24,192
	12	3.00	5.75	2.00	0.86	34,212
	16	4.00	7.50	2.00	1.85	59,447

NOTE: SIZE IN TABLE DENOTES NOMINAL PIPE SIZE IN INCHES

NOTES:

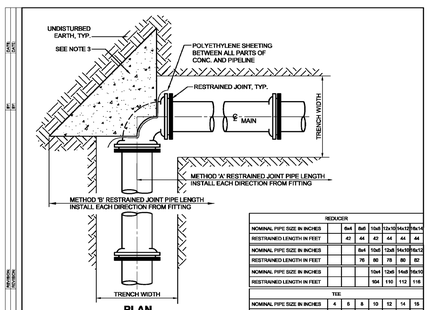
1. SOIL PREPARATION SHALL BE APPROVED BY GCDWR PRIOR TO POURING CONCRETE.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING G12 FOR ADDITIONAL DETAILS.

DESIGN CRITERIA:

1. THRUST RESTRAINT DIMENSIONS ARE BASED ON PRESSURE CLASS DUCTILE IRON PIPE WITH BITUMASTIC EXTERIOR COATING, MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF, A COHESIVE GRANULAR SOIL, TEST PRESSURE OF 250 PSI, WITH A SAFETY FACTOR OF 1.0.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL HORIZONTAL THRUST BLOCK	DRAWING NO. G11
DRAWN BY: GCDWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



PLAN

REDUCER							
NOMINAL PIPE SIZE IN INCHES	8x4	8x6	10x6	10x8	12x10	14x12	16x14
RESTRAINED LENGTH IN FEET	43	44	43	44	44	44	44
NOMINAL PIPE SIZE IN INCHES		8x4	10x6	12x8	14x10	16x12	
RESTRAINED LENGTH IN FEET		76	95	78	95	82	
NOMINAL PIPE SIZE IN INCHES				10x4	12x6	14x8	16x10
RESTRAINED LENGTH IN FEET				164	110	112	116

TEE							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	24	76	90	105	140	180	180

DEAD END OR CLOSED VALVE							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	54	76	99	120	140	160	180

90 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	54	76	99	120	140	160	180

45 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	23	32	41	50	58	67	75

22 1/2 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	11	15	20	24	28	32	36

NOTES:

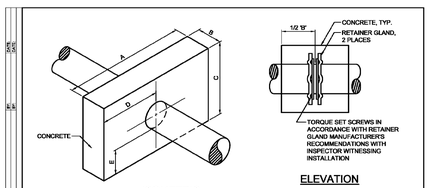
1. SOIL PREPARATION SHALL BE APPROVED BY DWR PRIOR TO POURING CONCRETE.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING G11 FOR DETAILS.
3. INSTALL THRUST BLOCK ONLY WHEN METHOD 'B' PIPE RESTRAINT IS UTILIZED.
4. FOR PIPE SIZES LARGER THAN 16" THE DESIGN ENGINEER SHALL PROVIDE CALCULATIONS FOR RESTRAINED JOINT LENGTHS TO DWR FOR REVIEW PRIOR TO INSTALLATION.
5. RESTRAINED JOINT METHOD A: RESTRAINT JOINT PIPE AND FITTINGS.
6. RESTRAINED JOINT METHOD B: ONE (1) OF THE FOLLOWING DUAL (2) INDEPENDENT RESTRAINTS:
   A. MEGA-LUGS PLUS THRUST BLOCKING.
   B. MEGA-LUGS PLUS RODDING.

DESIGN CRITERIA:

1. THRUST RESTRAINT DIMENSIONS ARE BASED ON PRESSURE CLASS DUCTILE IRON PIPE WITH BITUMASTIC EXTERIOR COATING, (WITHOUT POLYWRAP), MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF, SILTY SAND SOIL, TEST PRESSURE OF 250 PSI, 4 FEET OF UNSATURATED SOIL COVER, CLASS "D" PIPE BEDDING CONDITION, WITH A SAFETY FACTOR OF 1.5.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	TYPICAL HORIZONTAL THRUST RESTRAINT	DRAWING NO. G12
DRAWN BY: GCDWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



ISOMETRIC

ELEVATION

PIPE SIZE	A	B	C	D	E	VOLUME CU.YDS.	CONC.. WT. (LB)	THRUST (LB)
4"	2'-6"	12"	2'-6"	1'-3"	1'-0"	0.23	919	4,524
6"	2'-9"	12"	2'-9"	1'-4 1/2"	1'-1"	0.27	1,095	9,348
8"	3'-0"	18"	3'-0"	1'-6"	1'-2"	0.47	1,924	16,082
10"	4'-0"	18"	3'-6"	2'-0"	1'-4"	0.74	2,999	24,192
12"	4'-6"	24"	4'-6"	2'-3"	1'-9"	1.43	5,790	34,212
14"	5'-6"	24"	4'-6"	2'-9"	1'-8"	1.74	7,042	45,963
16"	6'-6"	24"	5'-0"	3'-3"	1'-10"	2.29	9,255	59,447

NOTES:

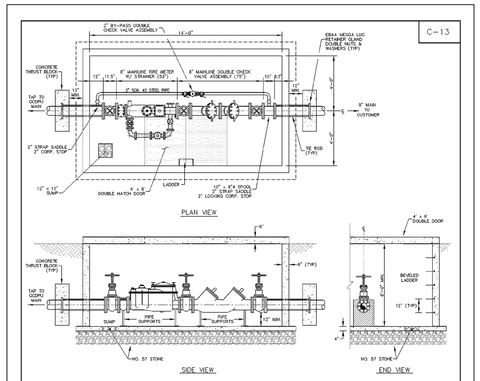
1. CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH EXCEPT WHERE FORMWORK IS A MUST. AFTER CONCRETE IS CURED THE FORMWORK SHALL BE REMOVED.
2. MAINS GREATER THEN 18" DIAMETER SHALL BE INDIVIDUALLY CALCULATED.
3. SOIL CONDITIONS SHALL BE VERIFIED BEFORE THRUST RESTRAINT DESIGN IS IMPLEMENTED.
4. PIPE MUST BE DUCTILE IRON.

DESIGN CRITERIA:

1. COLLAR DIMENSIONS ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF, A RATED TEST PRESSURE OF 250 PSI, AND 3000 PSI CLASS 'A' CONCRETE.
2. UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE 'HIGH EARLY' TYPE.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

DESIGN BY: STD. COMMITTEE	THRUST RESTRAINT COLLAR	DRAWING NO. G13
DRAWN BY: GCDWR		
CHECKED BY: PSB		
APPROVED BY: ARS		
SCALE: NONE		



VAULT SPECIFICATIONS

1. THIS DRAWING SHALL BE USED FOR INSTALLATION OF 8" FIRE METER WITH A NON-TRAFFIC BEARING VAULT.
2. ALL PIPE AND FITTINGS SHALL BE FLANGED DUCTILE IRON PIPE, EXCEPT WHERE NOTED.
3. VAULT TOP SHALL BE 6" THICK REINFORCED CONCRETE WITH 2 LAYERS OF #4 BARS. VAULT BOTTOM IS 4" CONCRETE SLAB SLOPED TO 12" x 12" DRAIN SUMP HOLE. SLAB TO EXTEND 6" BEYOND VAULT WALLS. #57 STONE UNDER SUMP SHALL BE TO 24" SIDE OF VAULT AT THE CENTER POINT OF THE WALL.
4. HATCH SHALL BE BILCO (NUMBERING MODEL) OR EQUAL, APPROVED IN ADVANCE BY GCDWU.
5. VAULT INLET/OUTLET OPENINGS SHALL BE SEALED WITH CONCRETE OR BRICK AND MORTAR AROUND PIPE. PIPE MUST NOT SURROUND VAULT.
6. VAULT SHALL BE PRECAST FOR NON-LOAD BEARING VAULTS. CAST IN PLACE SHALL BE SUBJECTED TO LIVE LOAD. CONTRACTOR'S ENGINEER SHALL SUBMIT DETAILED VAULT DESIGN FOR GCDWU APPROVAL IN ADVANCE OF CONSTRUCTION.
7. ACCESS LADDER — SHALL BE DOWELED TO WALL AND CENTERED AT HATCH OPENING.
8. CHECK VALVE AND METER ASSEMBLIES SHALL BE SUPPORTED BY PAC (2) PLACES ON CAP BLOCKS OR STEEL. NO WOOD IS ALLOWED.
9. THRUST BLOCKS — SHALL CONFORM TO GCDWU DRAWING NO. A-34 (LATEST REVISION).
10. THRUST TIE RODS — SHALL CONFORM TO GCDWU DRAWING NO.'S A-23, A-24, AND A-25 (LATEST REVISION). ALL FITTINGS, FLANGE WIDGE VAULT TO TAPPING VALVE (INCLUDE TO CASING ON LONG SIDE BORE).
11. 8" DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS MODEL 709, HERSEY MODEL NDC, FEBCO MODEL 850U, AMES MODEL 3000DCDC, OR EQUAL APPROVED IN ADVANCE BY GCDWU.
12. 2" DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS MODEL 007U, HERSEY MODEL 2, FEBCO MODEL 850U, AMES MODEL 3000DC, OR EQUAL APPROVED IN ADVANCE BY GCDWU.
13. 8" CHECK VALVE SHALL BE EQUIPPED WITH OS&Y RESILIENT SEATED GATE VALVES.
14. GCDWU SHALL FURNISH COMPOUND METER ASSEMBLY. ALL OTHER VALVE ASSEMBLY SHALL BE FURNISHED BY CONTRACTOR.
15. 2" DOUBLE CHECK VALVE ASSEMBLY DIMENSIONS SHOWN ARE FOR WATTS MODEL 709. OTHER VALVE ASSEMBLY DIMENSIONS MAY VARY.
16. VAULT SHALL BE INSTALLED ON PRIVATE PROPERTY. CONTRACTOR SHALL PROVIDE 15' x 30' EASEMENT AROUND FRONT OF ENTRY CLAUSE.
17. MINIMUM CLEARANCE FROM VAULT FLOOR TO BOTTOM OF FLANGES SHALL BE 12".
18. VALVE PAD AND VALVE MARKER SHALL BE INSTALLED WHERE APPROPRIATE.

NOTES

1. NO WORK SHALL BEGIN WITHOUT OBTAINING "CONSTRUCTION PERMIT" FROM THE DEPARTMENT OF PUBLIC UTILITIES (GCDPU).
2. NO TAPS TO GWINNETT COUNTY WATER MAINS SHALL BE MADE WITHOUT THE INSPECTOR PRESENT.
3. ALL BACKFLOW PREVENTION DEVICES SHALL MEET OR EXCEED GCDPU SPECIFICATIONS.
4. ALL BACKFLOW PREVENTION DEVICES MUST BE TESTED BY A TESTER FROM THE GWINNETT COUNTY APPROVED TESTERS LIST BEFORE A FINAL C.O. A COPY OF THE APPROVED TESTERS LIST MAY BE OBTAINED BY CALLING 678-376-6907.

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES BACKFLOW PREVENTION

"Protecting water, protecting people"

8" FIRE SERVICE METER NON-TRAFFIC BEARING VAULT

DRAWN BY: JDS	DATE: 08-17-04	SCALE: N.T.S.

CASE NUMBER : 2020-00316

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

08/26/2021		

SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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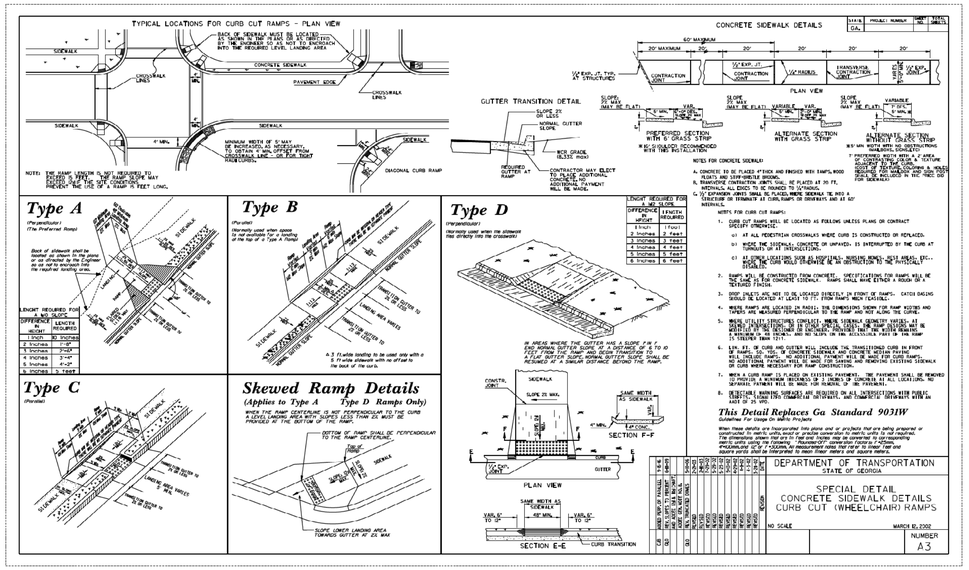
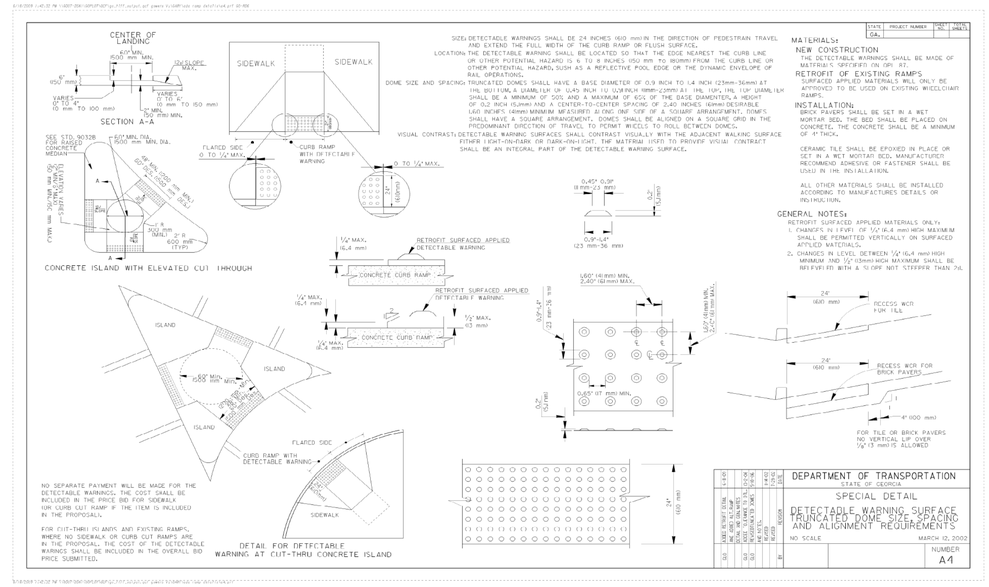
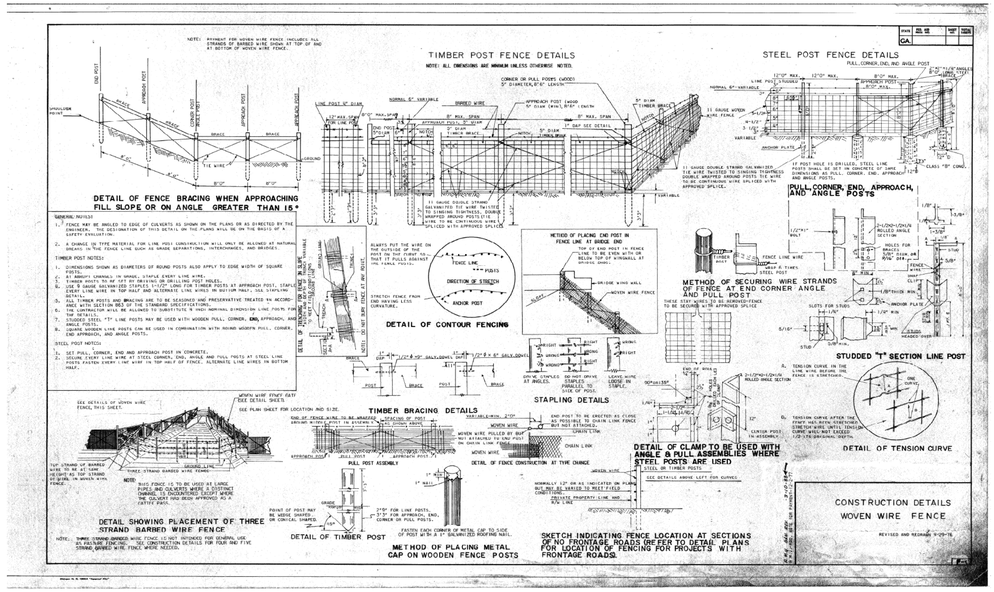
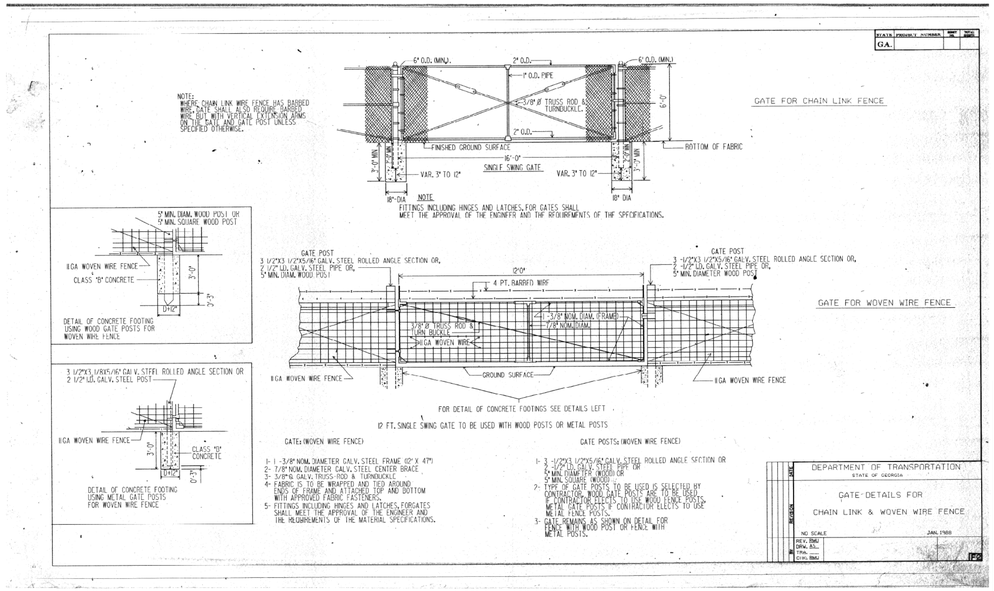
BACKCHECKED:		DATE:		38-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		









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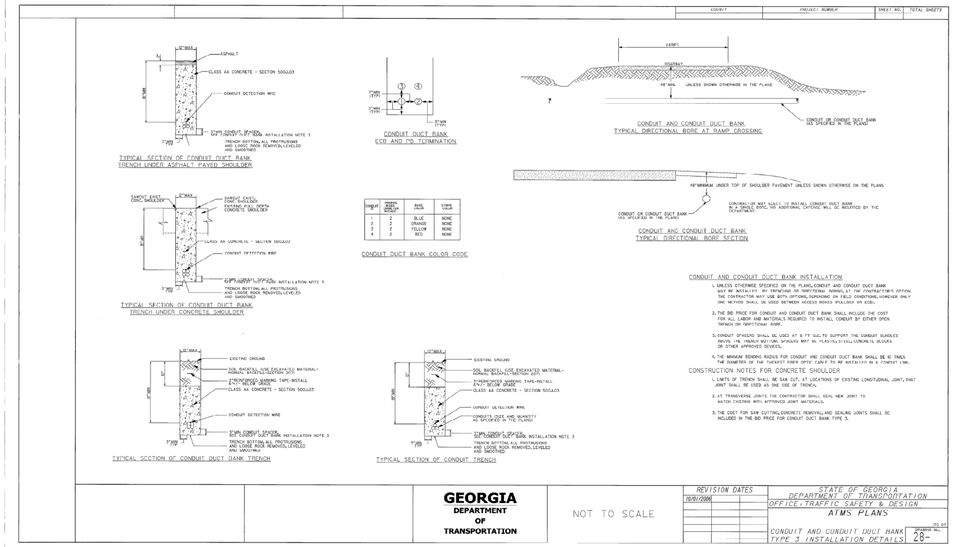

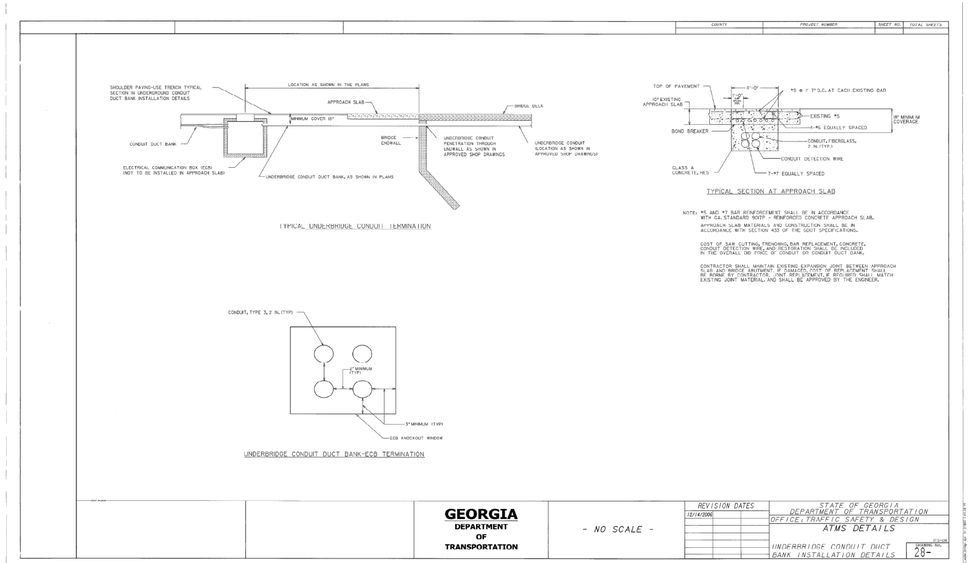

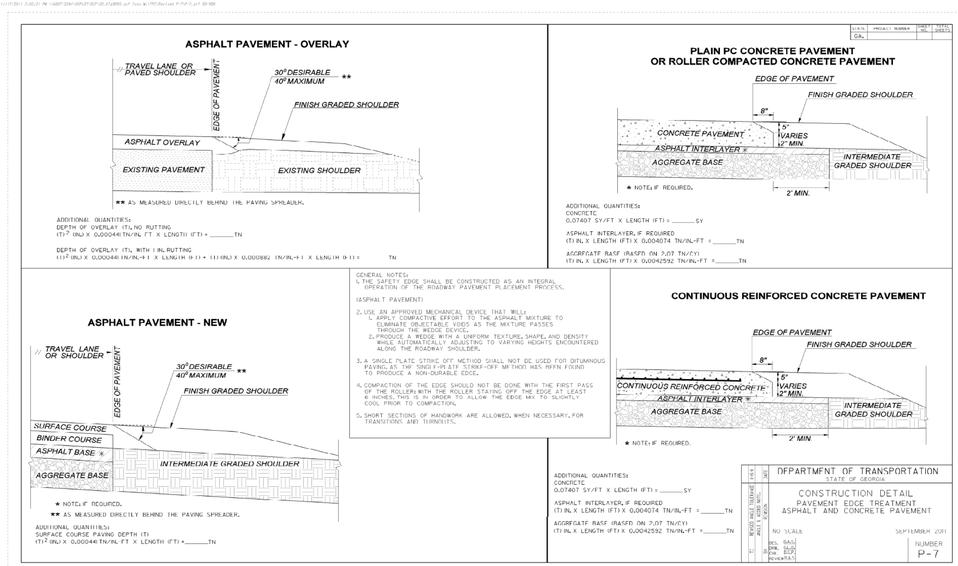

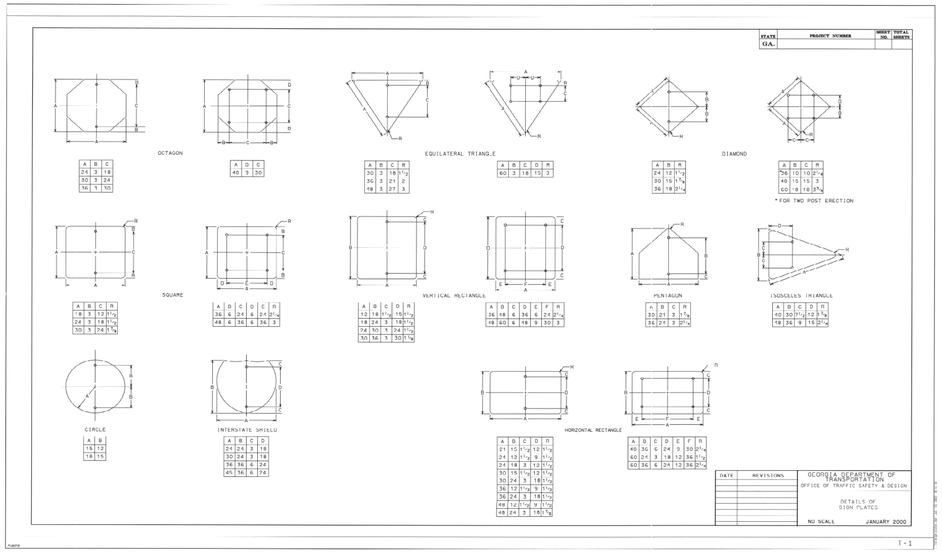

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SUGARLOAF XPRESS PARK AND RIDE LOT

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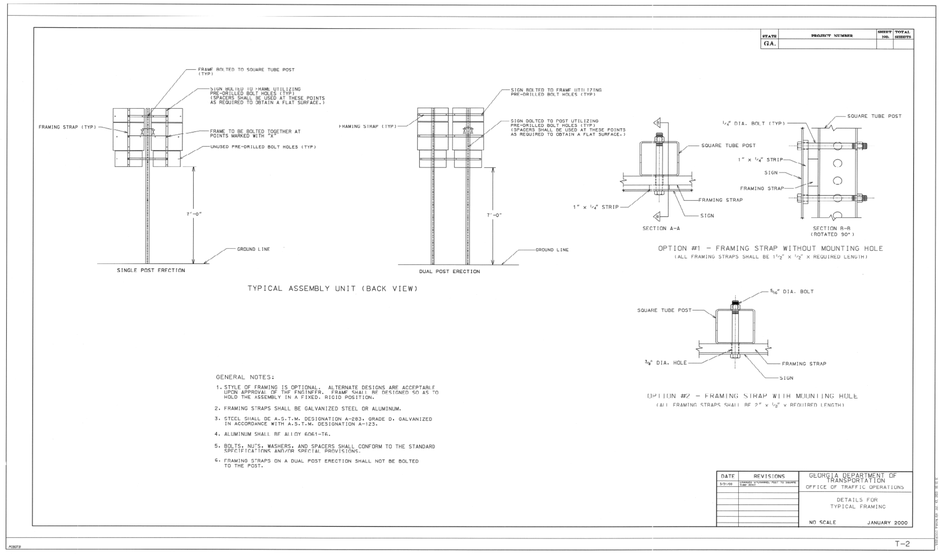

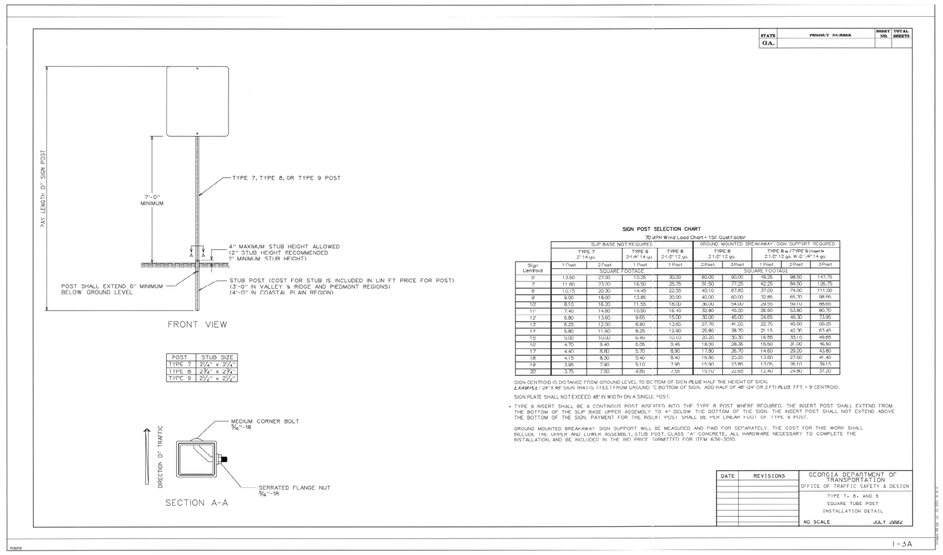

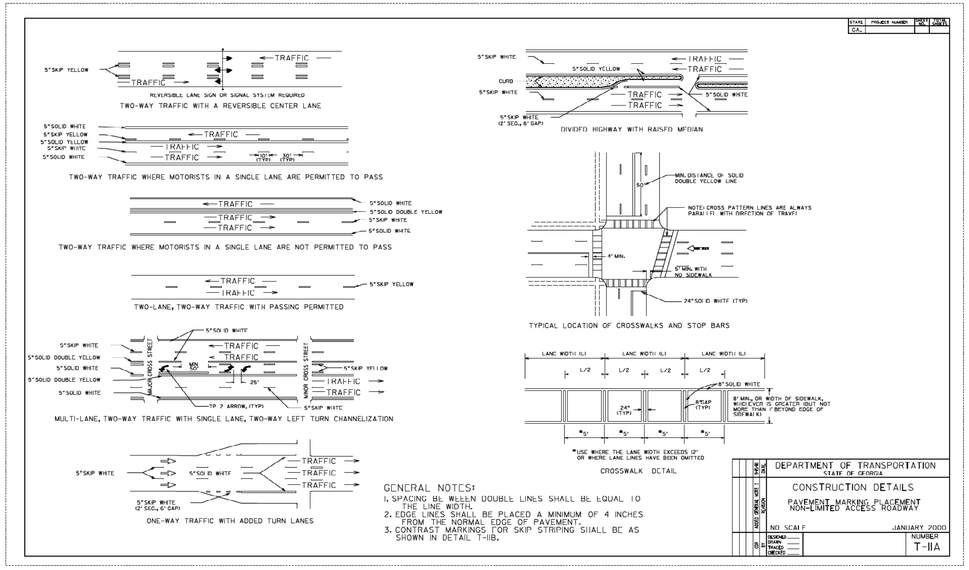

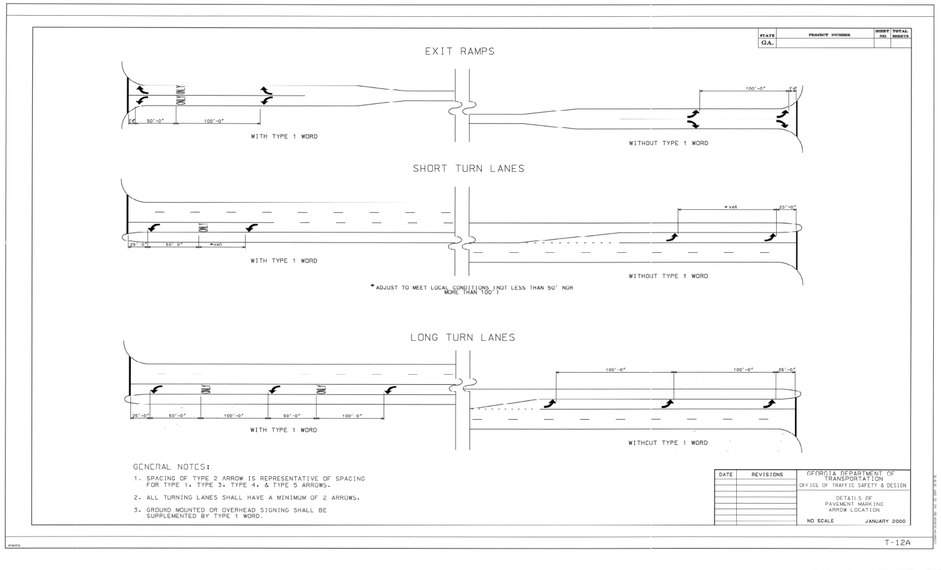

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Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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SUGARLOAF XPRESS PARK AND RIDE LOT

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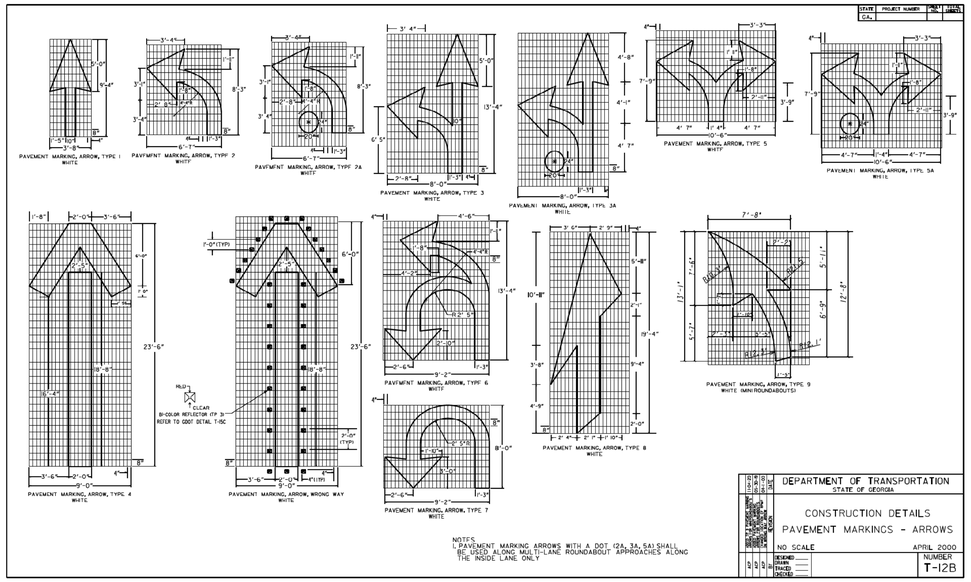
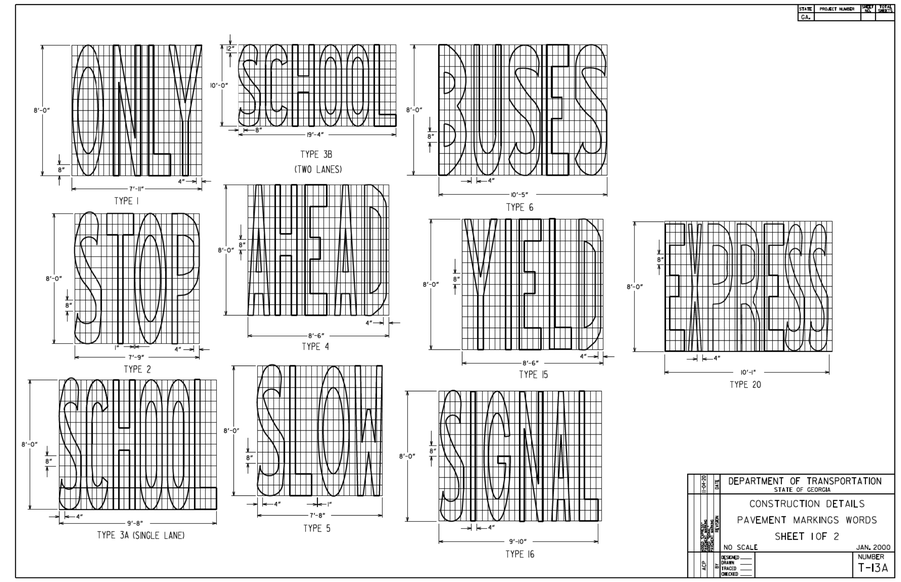
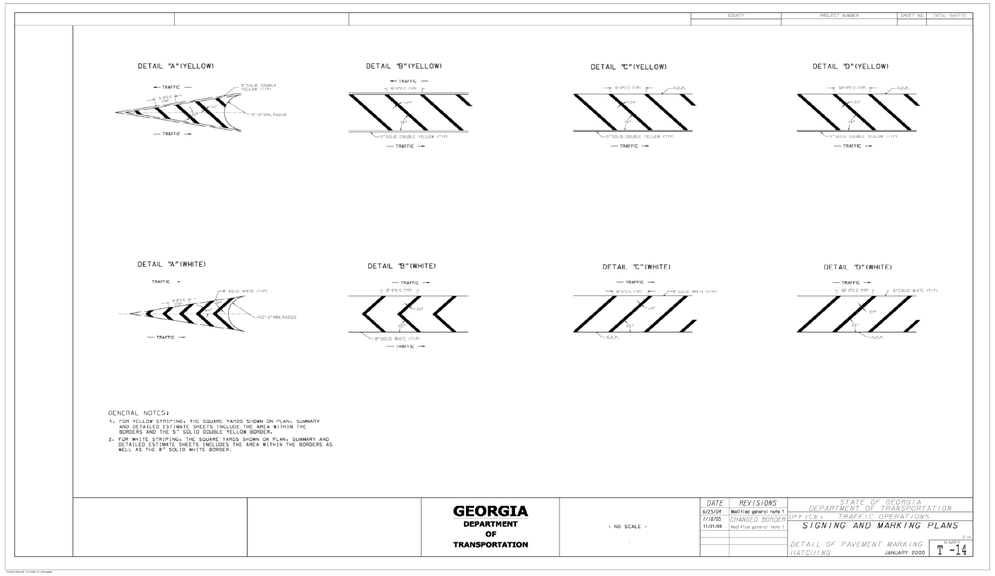
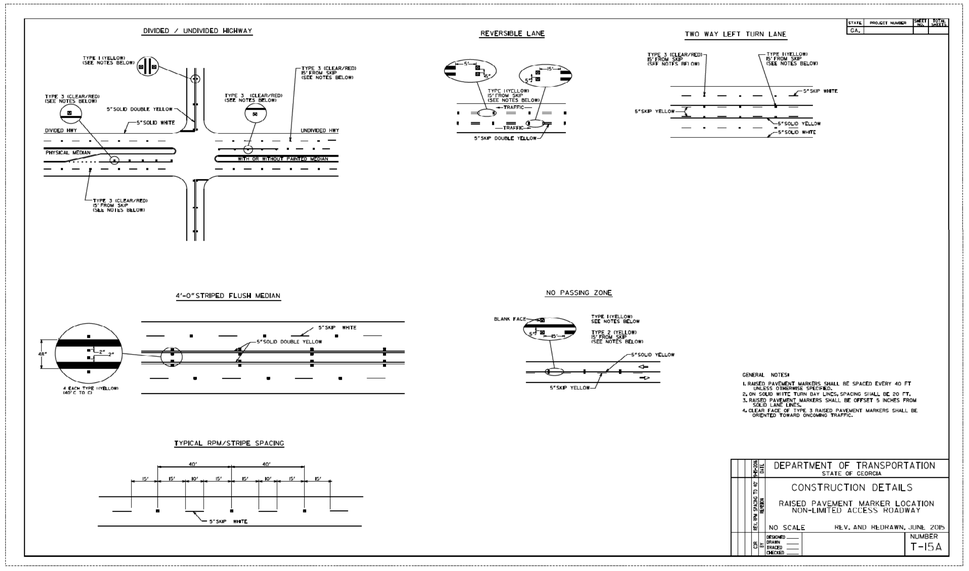
VERIFIED:		DATE:	

DRAWING No.
40-0003









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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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CONSTRUCTION DETAILS

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SUGARLOAF XPRESS PARK AND RIDE LOT

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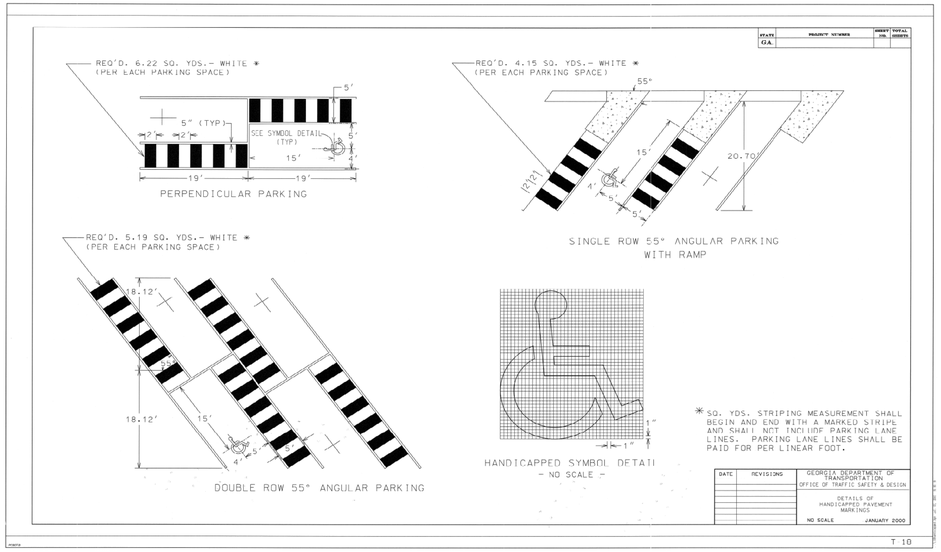

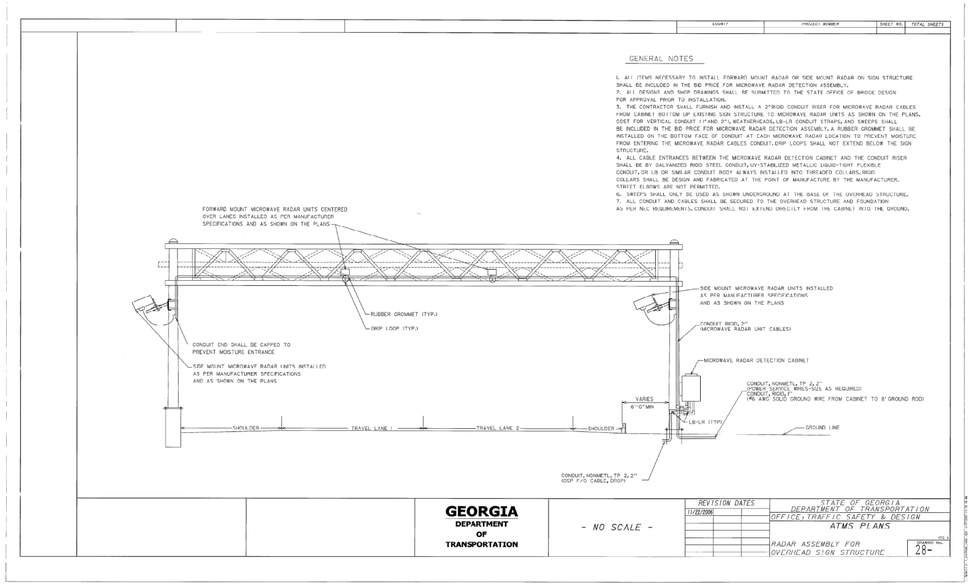

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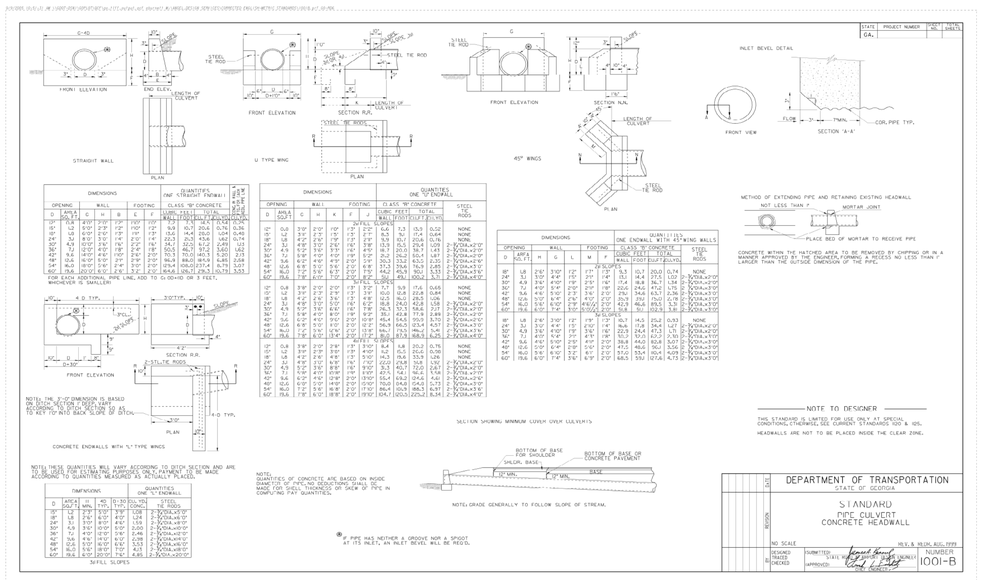

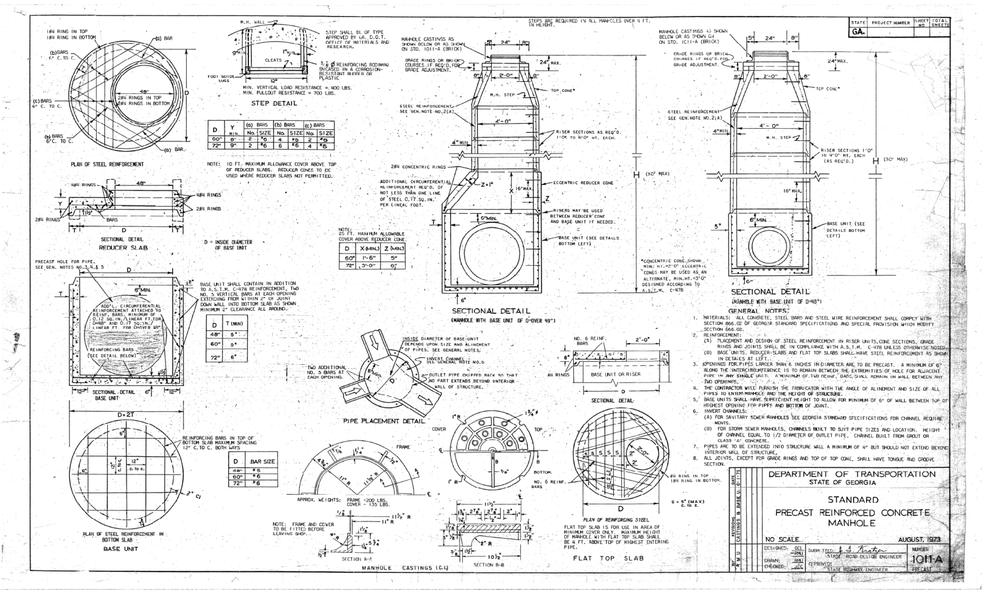

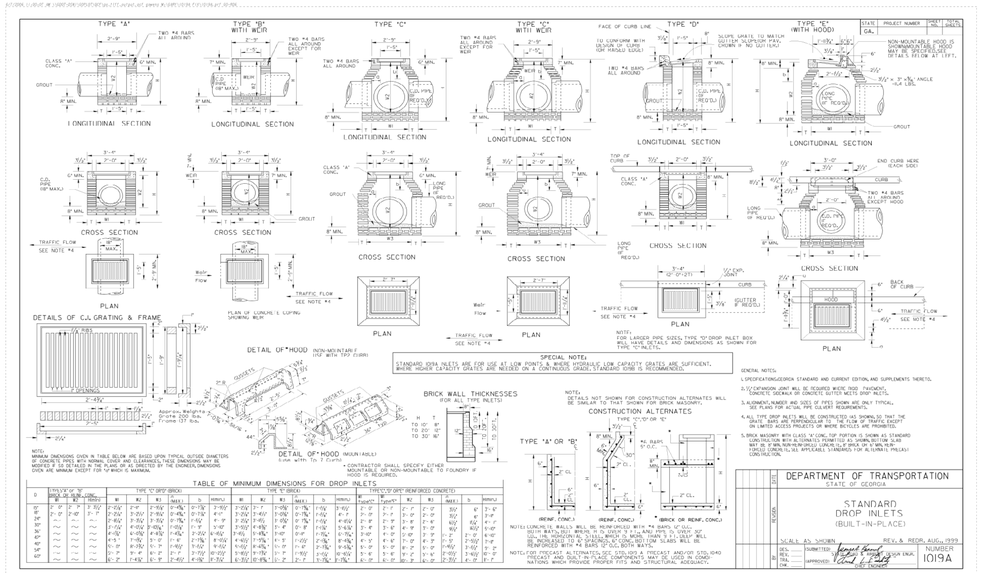

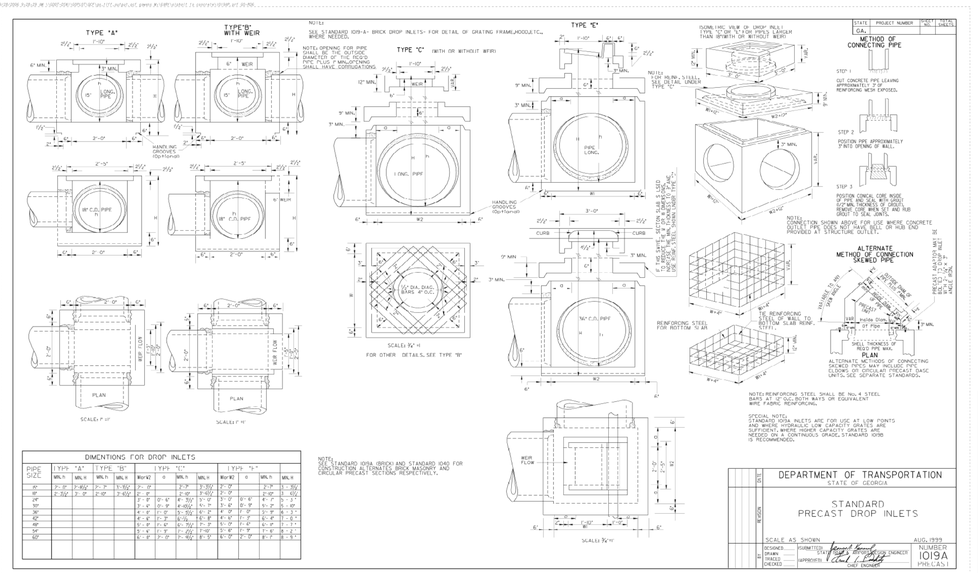

CASE NUMBER : 2020-00316

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
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REVISION DATES

GEORGIA STANDARDS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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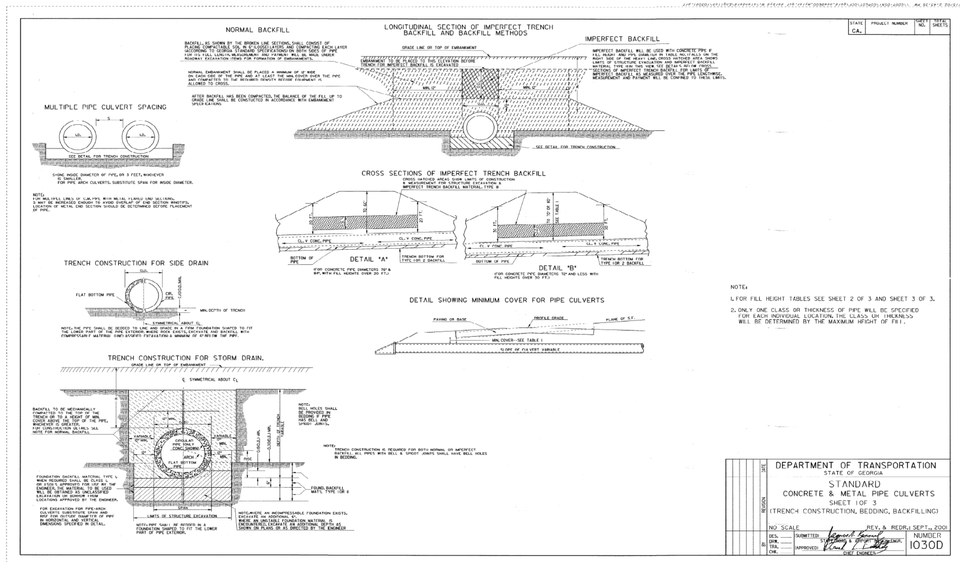

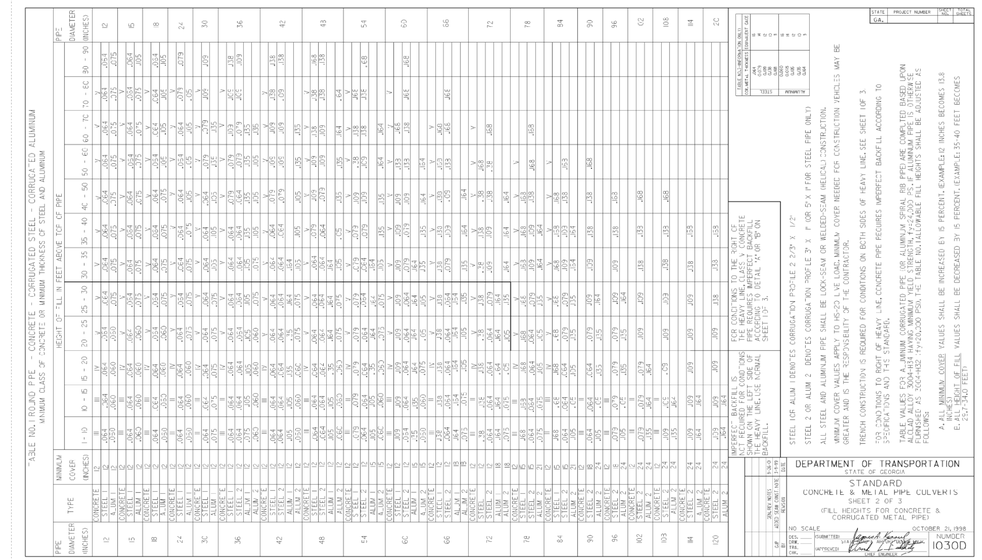

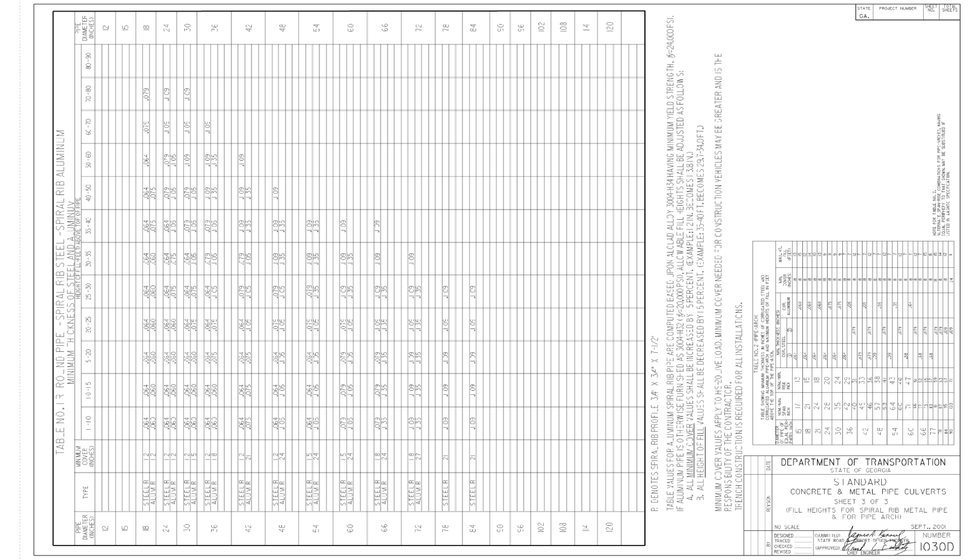

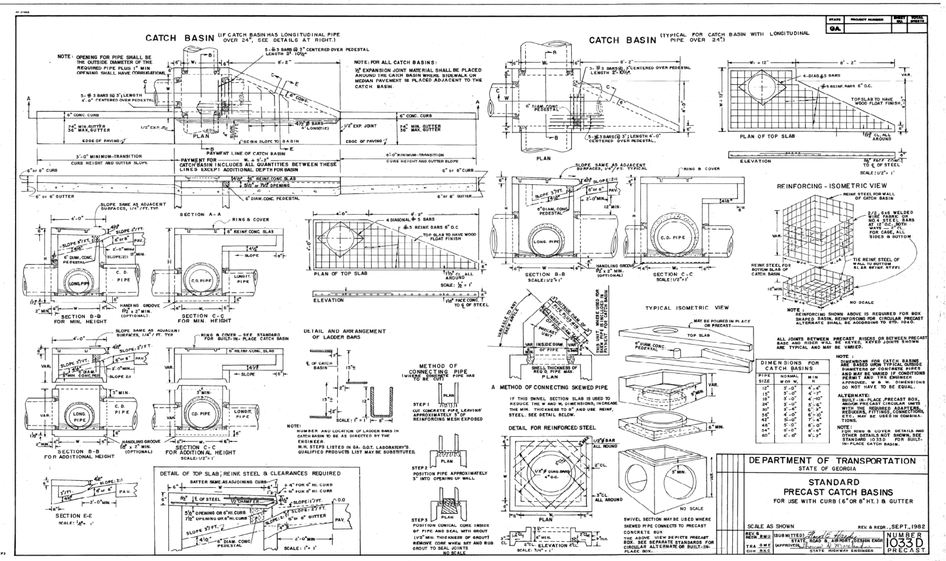

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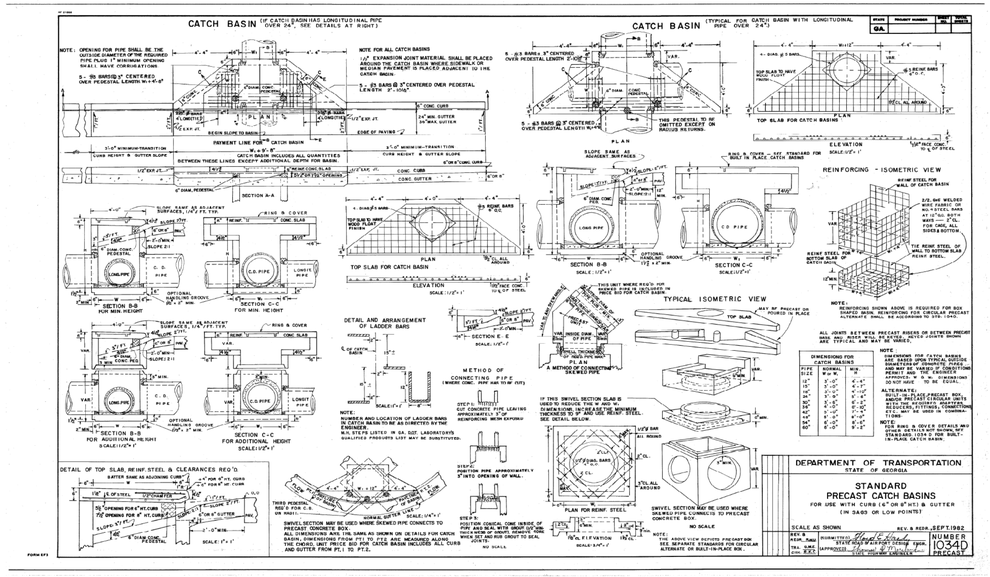

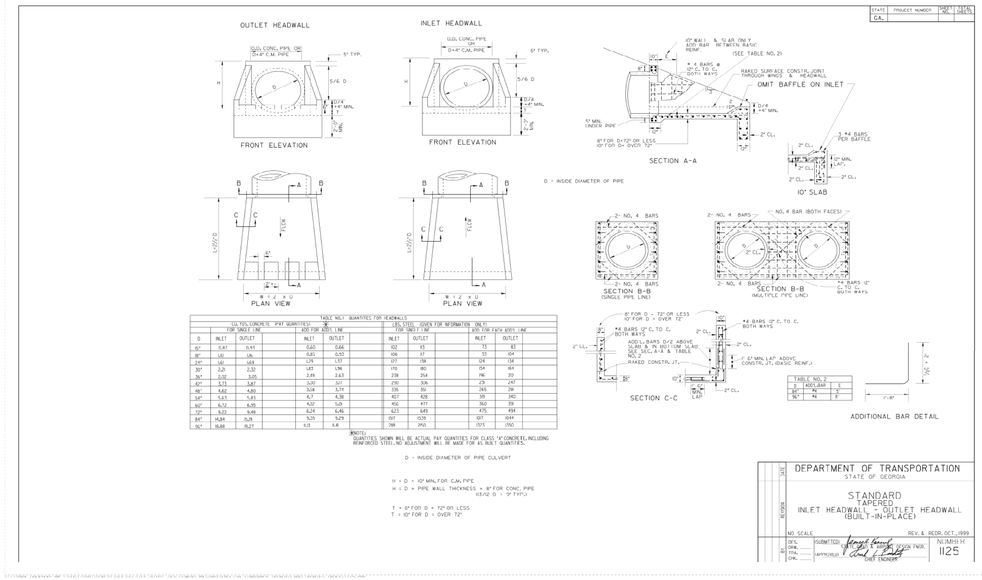

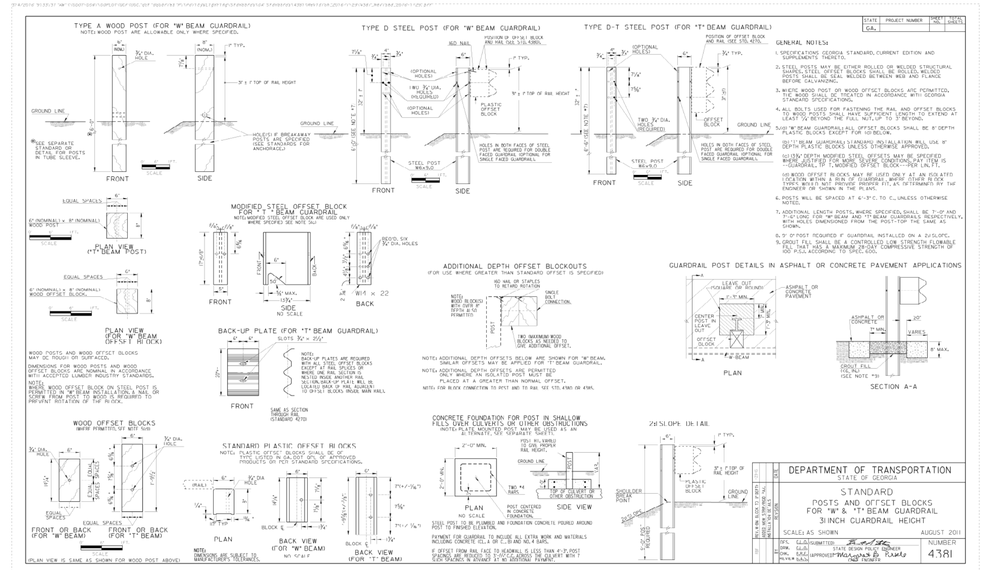

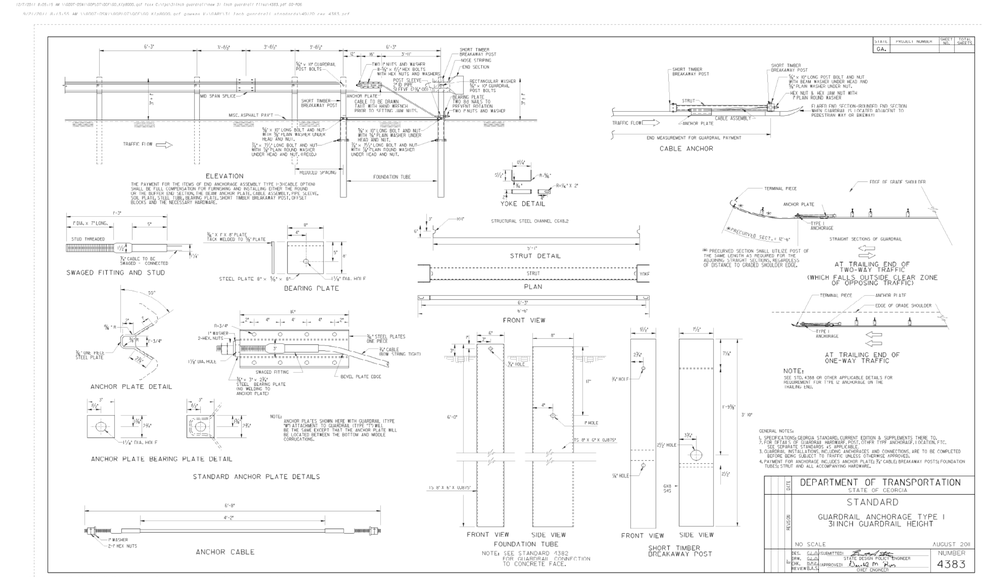

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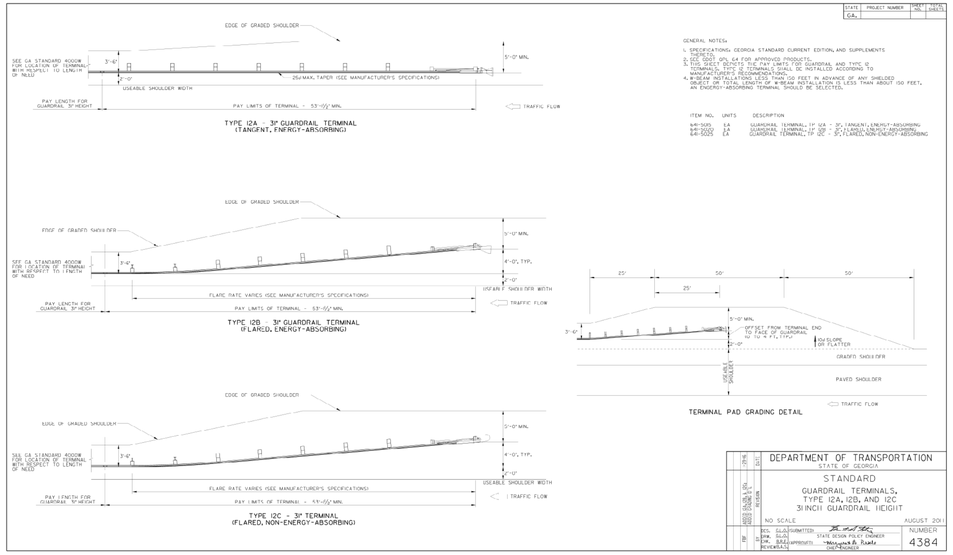

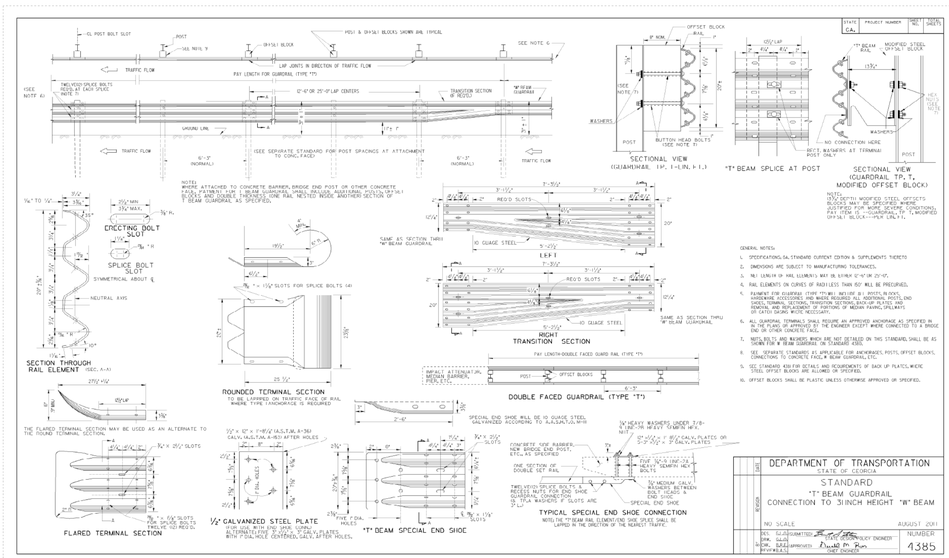

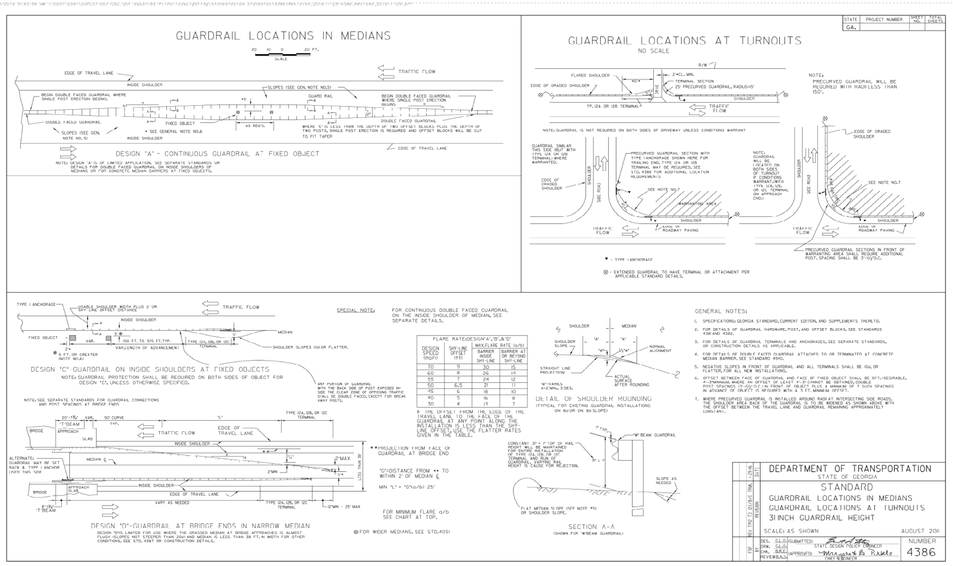

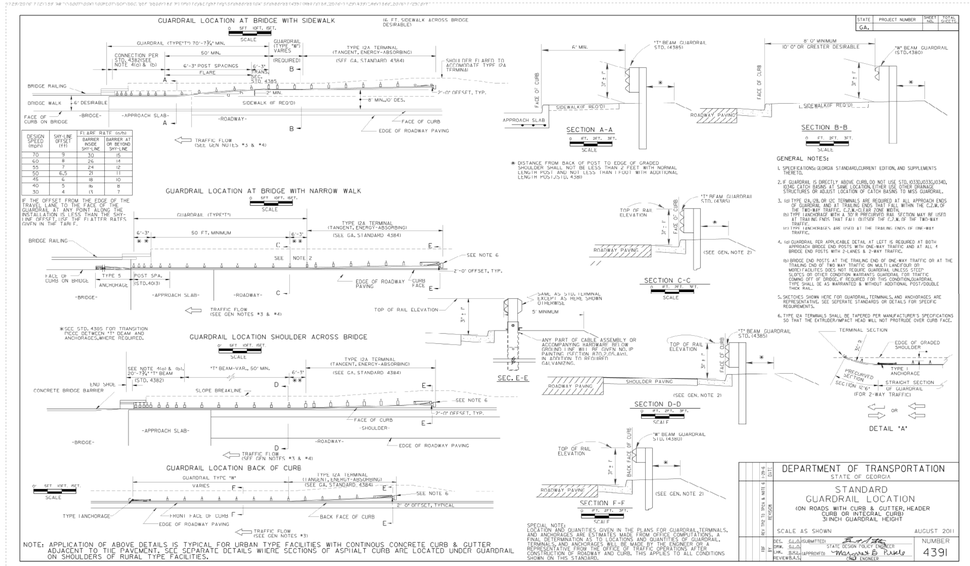

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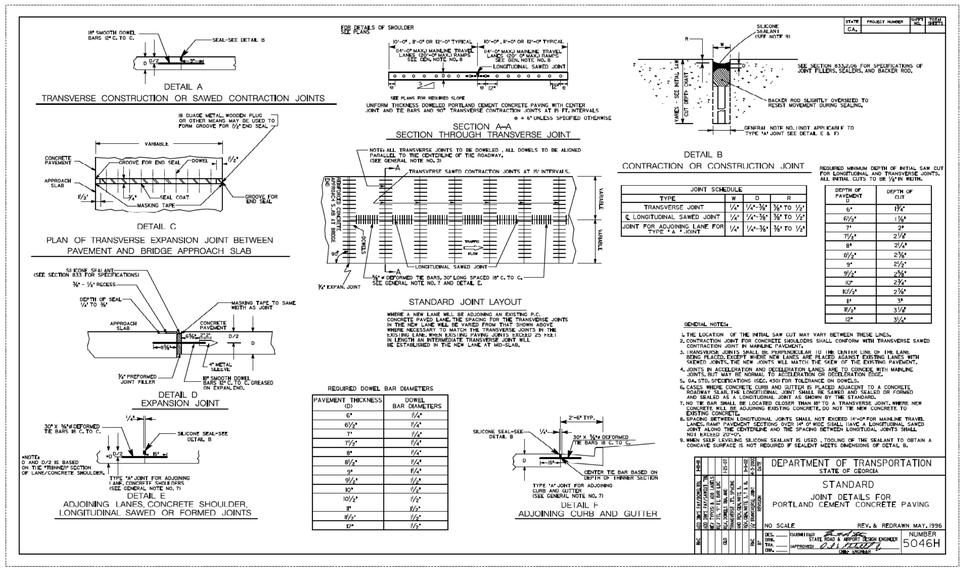

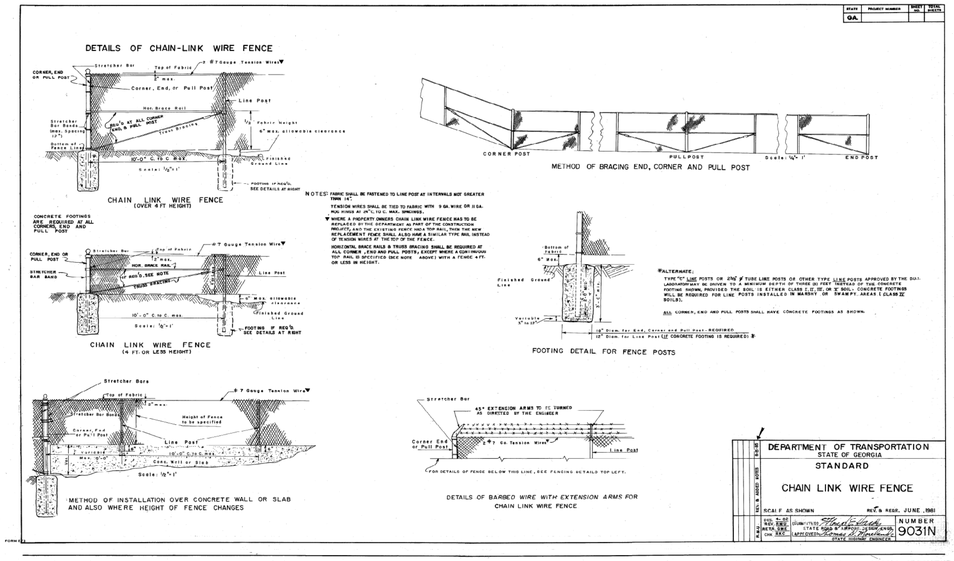

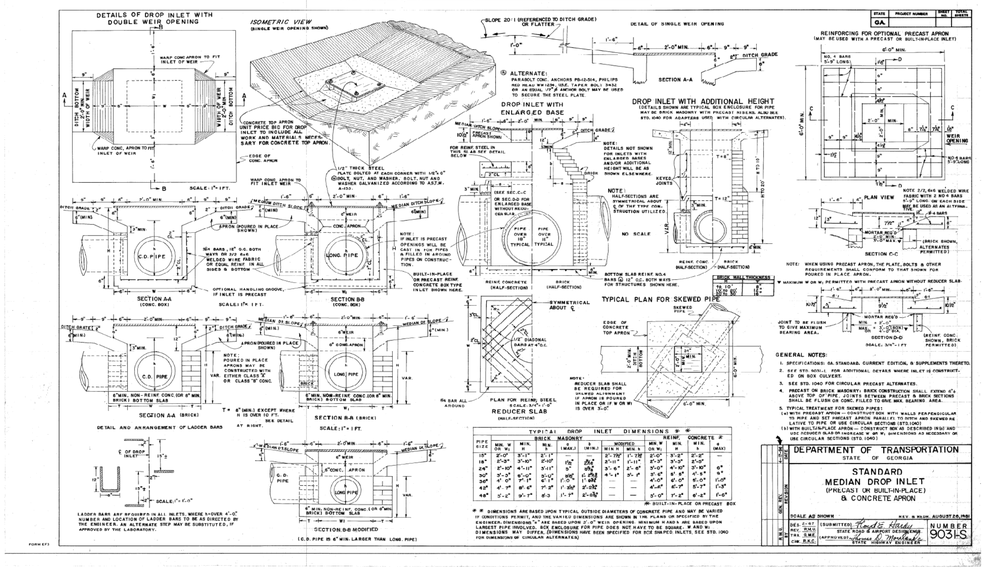

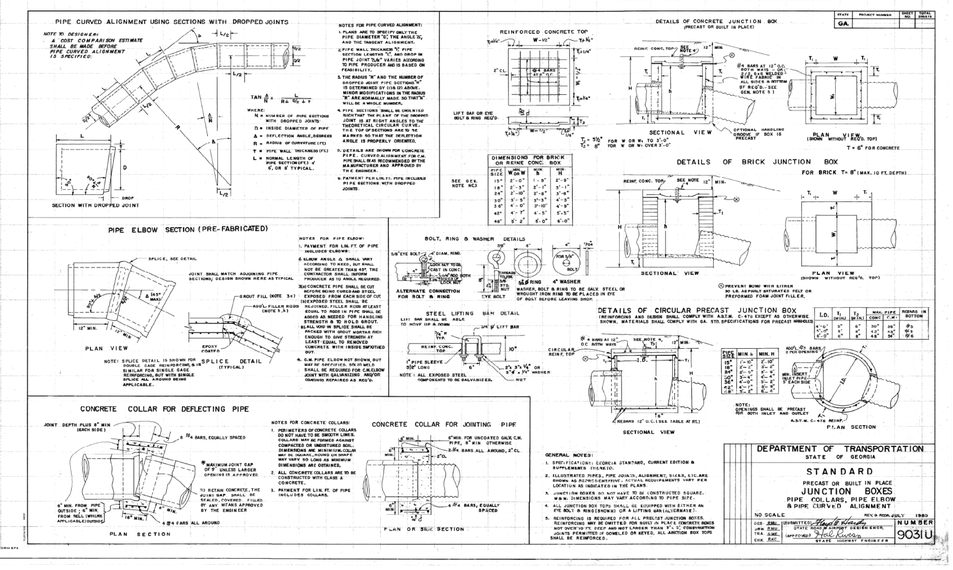

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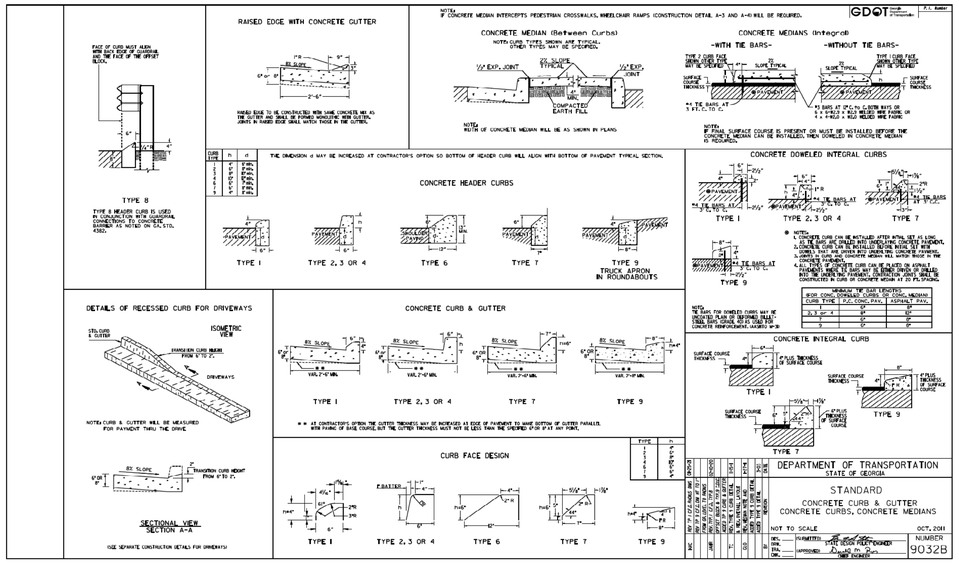

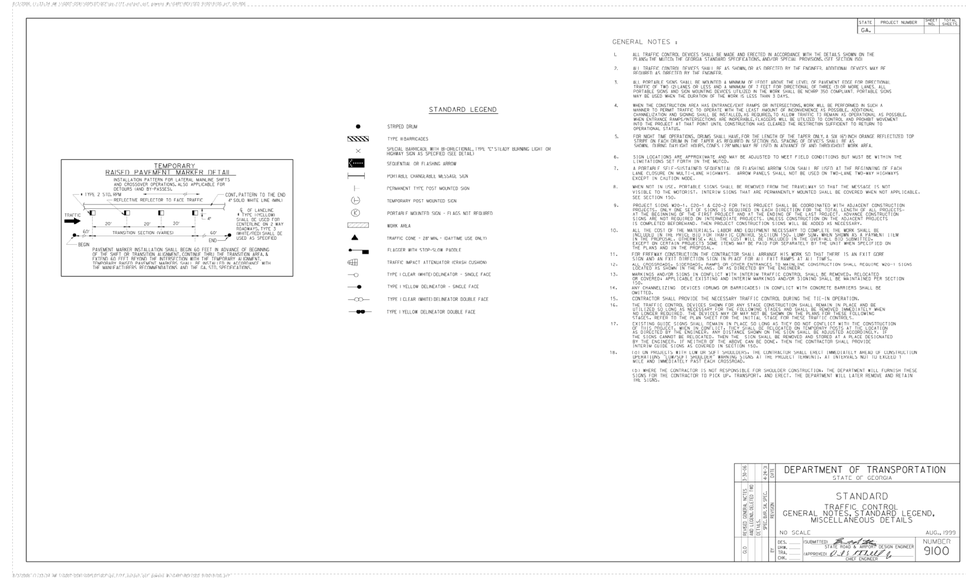

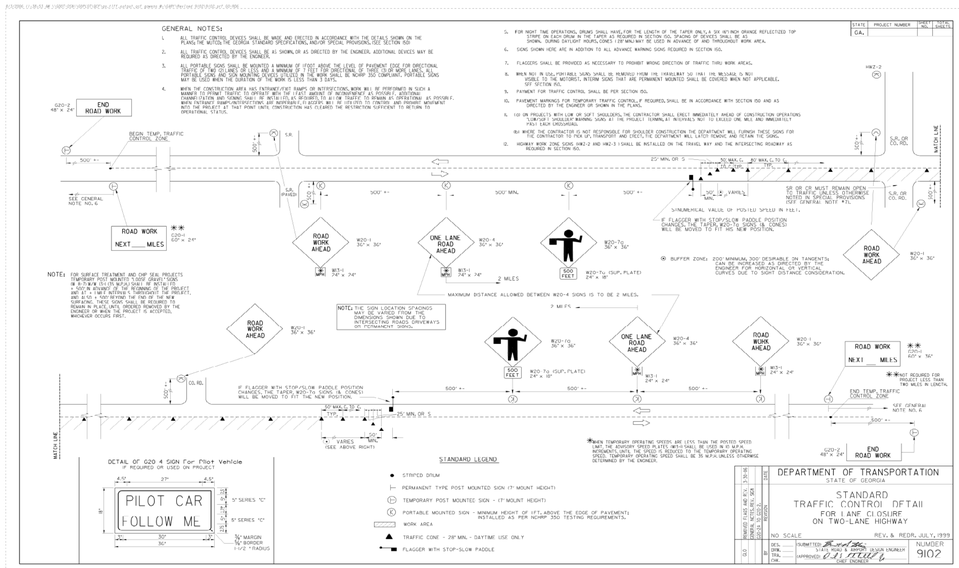

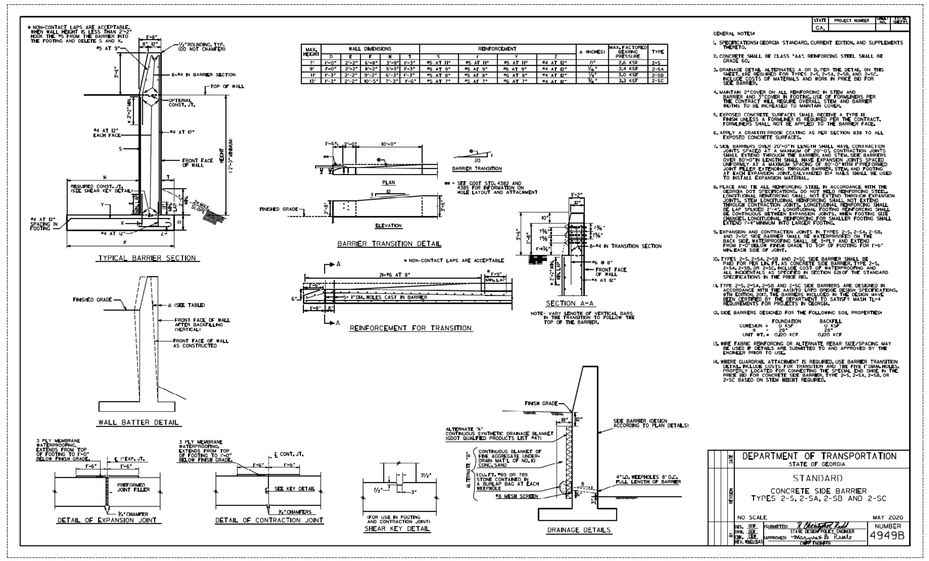

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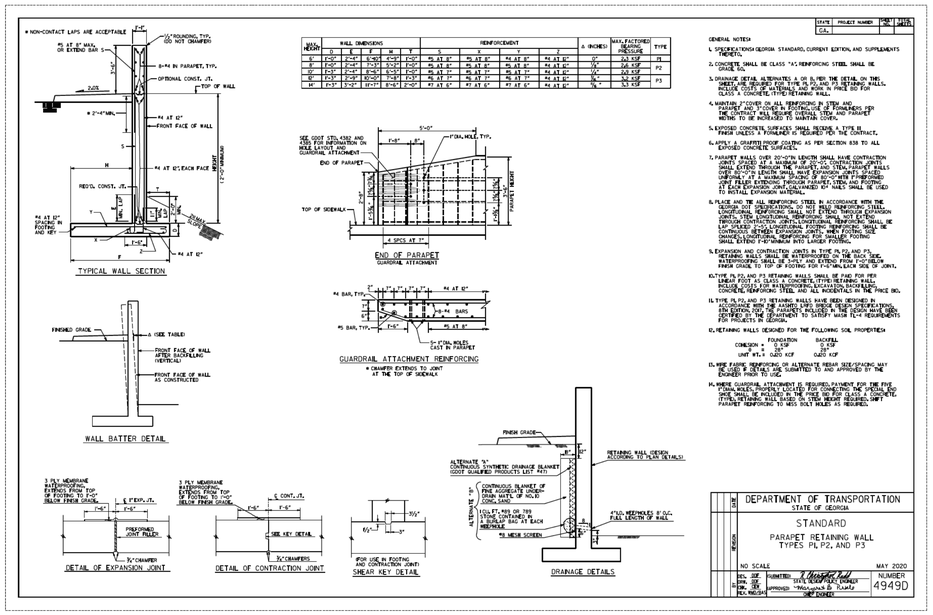

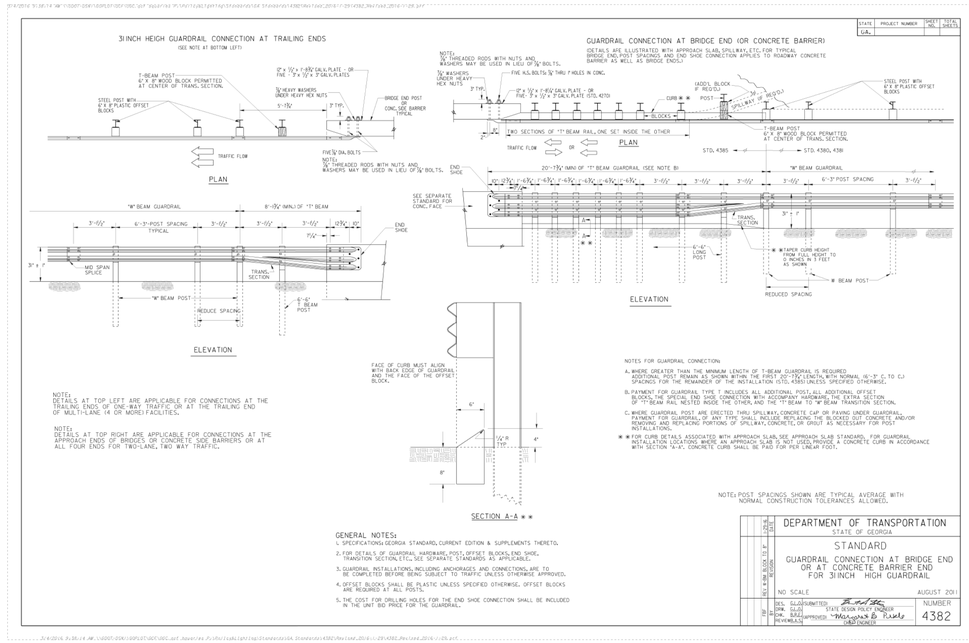

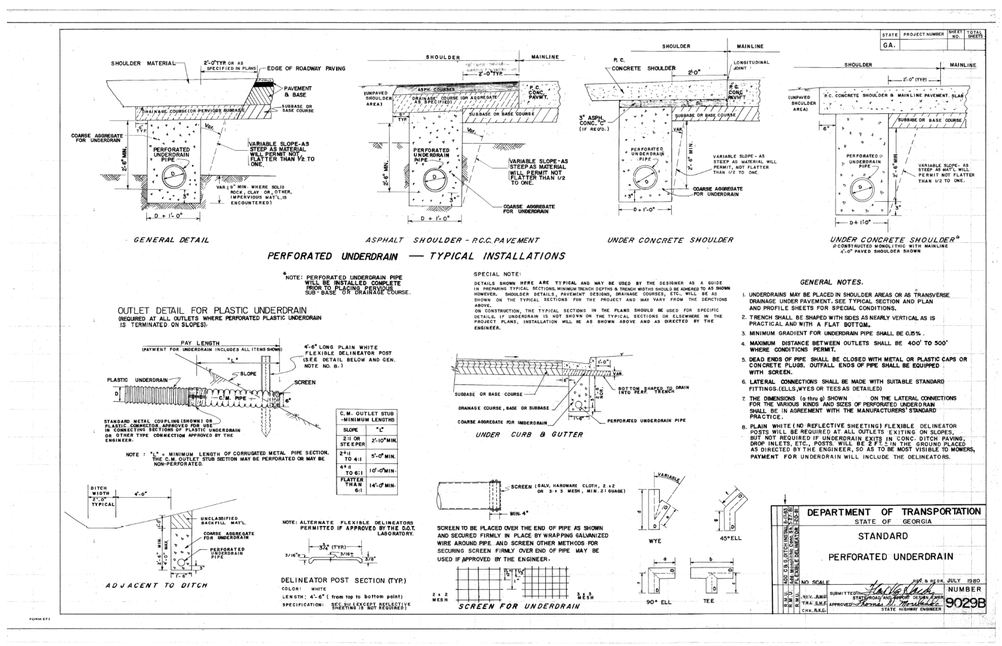

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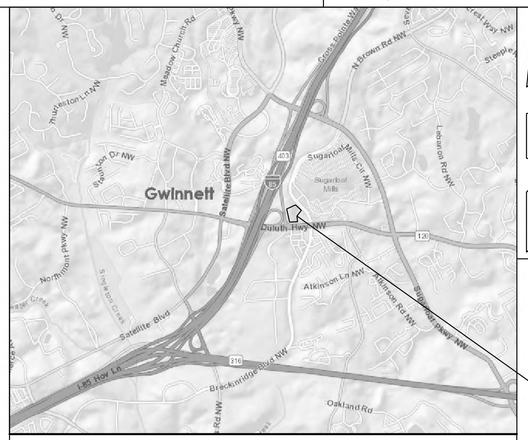

Gwinnett
Sugarloaf Mills
Duluth Hwy NW
Satellite Blvd
Brackinridge Blvd NW
Oakland Rd
Atkinson Ln NW
Lawrenceville Hwy NW
Northmont Pkwy NW
Stanton Dr NW
Madison Church Rd
Cross Roads NW
A Brown Rd NW
Lebanon Rd NW
Sugarloaf Mills Ct NW
Sugarloaf Pkwy NW
Stanton Creek
Sugarloaf Creek
Rd NW
Rd NW
Rd NW

GENERAL EROSION & SEDIMENTATION CONTROL NOTES:

1. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

2. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL, GWINNETT COUNTY CODES, AND THE STANDARDS AND SPECIFICATIONS IN THE **MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.**

3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY, STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

4. ALL CONSTRUCTION SHALL CONFORM TO GWINNETT COUNTY, O.S.H.A., AND/OR GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

5. THE NOTATION (XXX) AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:

   A. NO SURFACE WATER FLOWS FROM ONSITE AREA SHALL BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.

   B. SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES AND THE MAINTENANCE OF SWALES, BERMS, TEMPORARY DIKES, AND OTHER GENERALLY ACCEPTED CONSTRUCTION PRACTICES IS REQUIRED.

7. EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY NECESSARY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. PLEASE CALL (678)-518-6000 WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.

9. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OR CONCURRENT WITH EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**

10. **EROSION AND SEDIMENTATION 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 AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.**

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

12. **EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY.**

13. **ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY GWINNETT CO.**

14. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE FINAL STABILIZATION IS ACHIEVED.

15. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR REMOVING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

16. ALL DISTURBED AREAS SHALL BE GRASSED BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

18. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

19. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE "C" TEMPORARY SILT FENCE, OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT), STANDARD SPECIFICATIONS, CURRENT EDITION, AND BE WIRE REINFORCED.

20. SEDIMENT DEPTH INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

21. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

22. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5 : 1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKET. ALL GRADED SLOPES ON INDIVIDUAL PROJECTS SHALL BE NO STEEPER THEN 2:1 OR THE APPROPRIATE RETAINING STRUCTURE SHALL BE DESIGNED TO REINFORCE OR RETAIN THE RESULTING EMBANKMENT.

GENERAL EROSION & SEDIMENTATION CONTROL NOTES: (CONT'D.)

23. PROPOSED DETENTION PONDS, DETENTION OUTLET CONTROL STRUCTURES, AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED COMPLETELY AND BE FULLY OPERATIONAL PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES.

24. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

25. **NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.**

26. **NO WETLANDS HOWEVER WATERS OF THE STATE ARE LOCATED WITHIN 200-FEET OF THE PROJECT.**

27. FLOOD NOTE:

THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA:

A. "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155; MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006..

THIS PROPERTY LIES WITHIN THE FOLLOWING AREAS:

"ZONE X" (OTHER AREAS): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

28. MULCH TEMPORARY VEGETATION ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. THIS NOTE APPLIES AFTER INITIAL GRADING OF THE DEVELOPMENT OR LOT.

29. ALL DISTURBED AREAS LEFT IDLE FOR 5 DAYS, AND NOT TO FINAL GRADE, WILL NEED TO ESTABLISH TEMPORARY VEGETATION BY USING Ds1 / Ds2. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION BY USING Ds3 OR Ds4 IMMEDIATELY UPON COMPLETION.

30. GWINNETT COUNTY LAND DISTURBANCE PERMIT / BUILDING PERMITS MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.

31. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

32. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE OILS & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". GWINNETT COUNTY ALSO REQUIRES THAT POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDRO SEEDING.

33. THE PROPOSED EROSION AND RUNOFF CONTROL MEASURES ARE IN COMPLIANCE WITH THE GWINNETT COUNTY SEDIMENT CONTROL AND FLOOD PROTECTION REGULATIONS AND WILL NOT INCREASE THE RUNOFF RATE FROM THE SITE FOR RAINSTORMS WITH A RETURN PERIOD OF 2,5,10,25,50 AND/OR 100 YEARS

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

INITIAL (CLEARING & GRUBBING) NOTES:

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

2. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

3. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, AND/OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.

4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.

5. PRIOR TO COMMENCING LAND DISTURBING 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 ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED PHASE I LIMITS INDICATED ON THE APPROVED PLANS.

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

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

8. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. TRAPPED SEDIMENTS SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

9. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.

INITIAL (CLEARING & GRUBBING) NOTES: (CONT'D)

10. LOCATE STATE WATERS/WETLANDS.

11. ESTABLISH FULL IMPLEMENTATION OF SEDIMENT TRAPS

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

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

15. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

16. CLEARING BEYOND THE LIMITS SHOWN IN THE INITIAL EROSION CONTROL PLAN; FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA / ATL'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID LOSS OF SEDIMENT INTO THE BUFFER AREAS.

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

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

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

6. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.

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

8. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10-FEET OR GREATER, AND CUTS AND FILLS WITH STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.

9. TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL SOIL STOCK PILE AREAS.

10. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.

11. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALL LOCATIONS AS SOON AS THE HEADWALL IS CONSTRUCTED.

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL RETROFITS, EXCAVATED SEDIMENT TRAPS AND DIVERSION DIKES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE RETROFITS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE EXISTING DETENTION PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATIONS AS SHOWN ON THE PLANS.

14. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

15. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5"-3.5" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

16. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA / ATL'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

FINAL (STORMWATER MANAGEMENT & PERMANENT VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

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

3. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.

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

5. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

6. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name: SUGARLOAF PARK AND RIDE **Address:** N. BROWN ROAD NW @ I-85
City/County: LAWRENCEVILLE / GWINNETT **Date on Plans:**_____
Name & email of person filling out checklist: Ryne McCoy ryne.mccoy@atkinsglobal.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
51-0002	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
51-0002	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
51-0002	Y	5 Provide the name, address, email address, and phone number of primary permittee.
51-0002	Y	6 Note total and disturbed acreages of the project or phase under construction.
51-0002	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
51-0002	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0002	Y	9 Description of the nature of construction activity and existing site conditions.
51-0002	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-0002	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
51-0002	Y	12 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 19** of the permit.
51-0002	Y	13 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 19** of the permit. *
51-0002	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
51-0002	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0002	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
51-0002	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
51-0002	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

CASE NUMBER : 2020-00316

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

GEORGE N. KAKUNES REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

51-0002	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0002	Y	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
51-0002	Y	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. *
51-0002	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
51-0003	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
51-0003	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
51-0003	Y	27	Description of practices to provide cover for building materials and building products on site. *
51-0003	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
51-0003	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0003	Y	30	Provide complete requirements of Inspections and record keeping by the primary permittee. *
51-0003	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
51-0004	Y	32	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
51-0004	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
51-0004	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
51-0004	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
51-0004	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
51-0004	Y	37	Graphic scale and North arrow.
51-0004	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

51-0004	Y	39	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
51-0004	Y	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. *
51-0004	Y	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.
51-0004	Y	42	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
51-0004	Y	43	Delineation and acreage of contributing drainage basins on the project site.
51-0004	Y	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
51-0004	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0004	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0004	Y	47	Soil series for the project site and their delineation.
51-0004	Y	48	The limits of disturbance for each phase of construction.
51-0005	Y	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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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.
51-0005	Y	50	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
51-0005	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0005	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the 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, 2021

GSWCC AND NPDES NOTES:

1. 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:

2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL:

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

3. THE LIMIT OF DISTURBANCE FOR THIS PROJECT IS LESS THAN 50 ACRES AT ANY ONE TIME FOR THE DURATION OF THE PROJECT; THEREFORE, NO WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE, NOR THE INCLUSION OF AT LEAST 4 OF THE BMPs LISTED IN APPENDIX 1 OF THIS CHECKLIST, IS REQUIRED.

4. 24-HOUR LOCAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL CONTACT:

NAME: T.B.D.
LOCAL ADDRESS:

CONTACT PHONE NO.:

5. PRIMARY PERMITTEE:

OPERATOR: TO BE DETERMINED

OPERATOR CONTACT: _____
OPERATOR CONTACT PHONE NO.: _____

OWNER: NAME: SAM SAMU (FOR ATL / SRTA / GRTA)
ADDRESS: 245 PEACHTREE CENTER AVENUE, SUITE 2200
ATLANTA, GA 30303

OWNER CONTACT: SSAMU@SRTA.GA.GOV
OWNER CONTACT PHONE NO.: 404-893-6176

6. TOTAL PROPERTY SITE AREA: 5.49 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 1): 2.06 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 2 & 3): 6.14 ACRES.

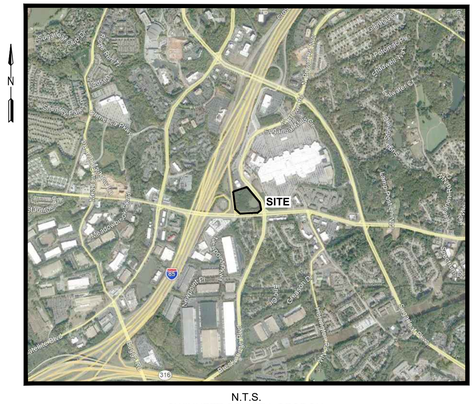
7. THE GPS LOCATION FOR THE CONSTRUCTION EXIT IS: N33.978611 W84.085833

8. FOR THE INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS, REFER TO THE TITLE BLOCK ON ALL SHEETS.

9. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS:

PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT CONSIST OF THE GRADING OF THE SITE AND THE INSTALLATION OF SITE, ROADWAY, AND UTILITY INFRASTRUCTURE REQUIRED TO SUPPORT A NEW PARK AND RIDE LOT AND BUS LOADING AREA. THE EXISTING SITE CONSIST OF A PREVIOUSLY GRADED UNDEVELOPED OUT PARCEL FOR SUGARLOAF MILLS, LOT LOCATED NEXT TO AN EXISTING DETENTION POND.

10. VICINITY MAP:



N.T.S.
GWINNETT COUNTY, GEORGIA

GSWCC AND NPDES NOTES:(CONT'D.)

11. PROJECT RECEIVING WATERS:

THE PROJECT RECEIVING WATERS FOR THIS SITE IS AN EXISTING DETENTION POND WHICH IS LOCATED TO THE SOUTHEAST OF THE PROJECT SITE.

STORM WATER RUNOFF IS CONVEYED NORTH TO SOUTH AND WEST TO EAST ACROSS THE SITE VIA PIPE STORM DRAINAGE SYSTEM. ALL ONSITE SHEET FLOW AS WELL AS THE DETENTION POND OUTFALL DISCHARGES INTO THE UNNAMED TRIBUTARY TO LEE DANIEL CREEK .

STORM WATER RUNOFF IS CONVEYED THROUGH THE UNNAMED TRIBUTARIES , WHICH THEN CONVERGES WITH LEE DANIEL CREEK , APPROXIMATELY ONE MILE SOUTH OF THE PROJECT SITE.

NEITHER THE UNNAMED TRIBUTARY, LEE DANIEL CREEK SHALL BE ADVERSELY IMPACTED BY THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT.

12. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PAGE 19 OF THE PERMIT:

"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."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

13. 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 PAGE 19 OF THE PERMIT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AN SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION:

THE DESIGN PROFESSIONAL, OR AN AUTHORIZED AGENT DESIGNATED BY THE DESIGN PROFESSIONAL, WILL PERFORM AN INSPECTION OF THE EROSION AND SEDIMENTATION CONTROL BMPs THAT HAVE BEEN INSTALLED AND WILL SUBMIT A SIGNED COPY OF A REPORT OF THEIR FINDINGS TO THE PRIMARY OPERATOR WITHIN 7-DAYS OF THE DATE OF THE INSPECTION, WHICH SHALL BE KEPT ON FILE WITH THE NOTICE OF INTENT (NOI) AND ALL OTHER REQUIRED PAPER WORK.

DATE OF INSPECTION: _____
"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLANS ON THE DATE OF INSPECTION."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

INSPECTION REVEALED THE FOLLOWING DEFICIENCIES FROM THE ES&PC PLAN:

THE DEFICIENT ITEMS IDENTIFIED IN THE REPORT MUST BE ADDRESSED AND CORRECTED BY THE CONTRACTOR WITHIN 2 BUSINESS DAYS UPON RECEIPT OF THE INSPECTION REPORT AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

GSWCC AND NPDES NOTES:(CONT'D.)

15. 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.

REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV):

(i.) 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS;
(ii.) 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; AND,
(iii.) 100-FOOT UNDISTURBED BUFFERS FOR PROJECTS IN THE VICINITY OF THE CHATTAHOOCHEE RIVER.

16. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW, OR WAVE ACTION, EXCEPT WHERE A SBV IS APPROVED BY GA EPD. THIS PROJECT PROPOSES NO ENCROACHMENT WITHIN THE STATE BUFFER.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES SHALL BE USED. THIS REQUIREMENT MUST BE IMPLEMENTED REGARDLESS OF WORK THAT IS APPROVED UNDER AN SBV, OR FOR A PROJECT THAT IS EXEMPT FROM AN SBV.

17. ANY AMENDMENTS/REVISIONS TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS (ES&PC PLANS), WHICH HAVE A SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT, MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

18. WASTE MATERIALS (I.E. SOLID MATERIALS, INCLUDING BUILDING MATERIALS) SHALL NOT BE DISPOSED OF OR DISCHARGED INTO STORM WATER INLETS OR TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DISPOSED OF IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRE BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

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

22. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT DO NOT DISCHARGE STORM WATER INTO A BIOTA IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT. THEREFORE, COMPLIANCE WITH PART III.C OF THE PERMIT, INCLUDING 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, IS NOT APPLICABLE TO THIS PROJECT.

23. A TMDL IMPLEMENTATION PLAN FOR SEDIMENT IMPAIRMENT IS NOT APPLICABLE AS THERE IS NO IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE). THEREFORE, NO TMDL IMPLEMENTATION PLAN OR SITE-SPECIFIC REQUIREMENTS ARE APPLICABLE TO THIS PROJECT.

24. BMPs FOR CONCRETE WASHDOWN OF THE FOLLOWING:

TOOLS:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASHDOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

CONCRETE MIXER CHUTES:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

HOPPERS:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

REAR OF VEHICLES:
ALL CONCRETE AND WASH WATER THAT RESULTS FROM THE RINSING OFF OF THE REAR OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

CONCRETE TRUCK PROHIBITIONS AND CONCRETE WASHOUT AREAS (CWA):
WASHOUT OR DISCHARGE OF ANY SURPLUS CONCRETE OR DRUM WASH WATER FROM CONCRETE TRUCKS AT THE CONSTRUCTION SITE IS PROHIBITED. DO NOT DISCHARGE ANY CONCRETE WASTEWATER (WASH OUT) INTO SANITARY OR STORM WATER SEWER SYSTEM OR DRAINS.

CASE NUMBER : 2020-00316

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GSWCC AND NPDES NOTES:(CONT'D.)

25. BMP's FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

POTENTIAL ENVIRONMENTAL IMPACTS FROM POLLUTANT SOURCES (EXISTING AND PROPOSED):

(1.) VEHICLE AND/OR EQUIPMENT LEAKS, AS WELL AS FROM ANY UNEXPECTED ACCIDENTS;

(2.) STORAGE, HANDLING AND/OR TRANSPORTATION OF HAZARDOUS MATERIALS/ CHEMICALS;

(3.) LOADING/UNLOADING AND/OR REFUELING/TRANSFERRING OPERATIONS OF HEAVY EQUIPMENT AND ANY OTHER FUEL OPERATED EQUIPMENT (I.E. GENERATORS, PUMPS, CHAINSAWS, ETC...) TO INCLUDE THE USE OF FUEL TANKS AND ANY OTHER TYPE OF DISPENSERS (AS APPLICABLE); AND,

(4.) ASPHALT, CONCRETE, ROCK CRUSHER OPERATIONS.

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) REQUIREMENTS:

DURING THE IMPLEMENTATION (CONSTRUCTION/OPERATION) PHASE(S) OF THE PROJECT, THE CONTRACTOR AND/OR PROPONENT MUST HAVE A SPCC PLAN, AND FOLLOW ALL GWINNETT COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) REGULATIONS, WHICH ARE ASSOCIATED WITH TRANSPORTATION OF ANY HAZARDOUS MATERIALS. STORAGE OF HAZARDOUS MATERIAL/CHEMICALS AND WASTE MUST COMPLY WITH GWINNETT COUNTY REGULATIONS, INCLUDING SECONDARY CONTAINMENT AS REQUIRED. DRIP PANS SHOULD BE AVAILABLE FOR VEHICLES AND EQUIPMENT TO PREVENT OIL AND OTHER PETROLEUM PRODUCTS FROM SPILLING ONTO THE SOIL OR WATER. SECONDARY CONTAINMENT IS REQUIRED FOR ANY REFUELING/TRANSFERRING ACTIVITIES.

STORAGE AREAS FOR HAZARDOUS MATERIALS / CHEMICALS / WASTE SHOULD BE DESIGNED TO ALLOW FOR SECURE PRODUCT STORAGE, TO PROVIDE SECONDARY CONTAINMENT, AND COVERED.

A HAZARDOUS MATERIAL INVENTORY AND MSDS SHOULD BE KEPT ON RECORD AT ALL TIMES FOR SPCC/ISCP AND EPCRA REQUIREMENTS. THE INVENTORY MUST INCLUDE ALL PETROLEUM PRODUCTS, CHEMICALS, HERBICIDES, PESTICIDES, FERTILIZERS, DETERGENTS, PAINTS AND ANY OTHER HAZARDOUS SUBSTANCES USED AND/OR STORED BY THE CONTRACTOR/PROPONENT ON THE PROJECT SITE.

FOR WATER QUALITY:

NO DEMOLITION/CONSTRUCTION WASTE OR EXCESS CONSTRUCTION MATERIALS OF ANY KIND CAN BE DUMPED TO THE SANITARY SEWER SYSTEM, THE STORM SEWER SYSTEM, OR BE DISPOSED TO THE GROUND INCLUDING PAINT, PAINT PRIMER, PAINT THINNER, PAINT STRIPPER, SOLVENTS, ACIDS, BASES, OILS, GREASES, ADHESIVES, GLUES, PASTES, SEALANTS, SOLDER, CAULKING, GROUT, PUTTY, WAXES, SHEET ROCK, INSULATION, CARPET, CARPET PADDING, ACETATE, TILE, COOLANT, CORROSION INHIBITOR, CLEANING COMPOUNDS, HERBICIDES, TERMITICIDES, FUNGICIDE, WEED KILLERS, PESTICIDES.

BMP's FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF ON-SITE ABOVE GROUND STORAGE OF PETROLEUM, OIL, AND LUBRICANT (POL) PRODUCTS EXCEEDS 1,320 GALLONS, COUNTING CONTAINERS OF 55-GALLONS OR LARGER (THIS INCLUDES CAPACITIES OF EQUIPMENT), OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL BE REQUIRED TO HAVE A SITE SPECIFIC SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES (SPCC) PLAN AT THE STATE LEVEL PREPARED AND SEALED BY A CERTIFIED DESIGN PROFESSIONAL (P.E.) IN ACCORDANCE WITH 40 CFR 112 AND APPROVED BY THE LOCAL ISSUING AUTHORITY AND/OR STATE OF GEORGIA EPD.

THE CONTRACTOR IS REQUIRED TO PROVIDE SPECIFIC MEASUREMENTS TO MEET THE SPCC REQUIREMENTS IN THE ENVIRONMENTAL PROTECTION PLAN (EPP). THIS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO IS ACTUALLY CONDUCTING THE CONSTRUCTION PHASE.

TO ENSURE THAT BEST MANAGEMENT PRACTICES (BMPs) ARE SUITABLE FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS , THE PRIMARY PERMITTEE (OPERATOR/CONTRACTOR) SHALL PROVIDE AND IMPLEMENT THE FOLLOWING SPILL CONTINGENCY PLAN REQUIREMENTS, WHICH ALSO MEET GAR 100001 - PART III.B.1.&2.; PART IV. (iii) [SECOND PARAGRAPH]; D.2.c.(1), (3) & (4); PART IV.D.3.(1); GAR 000000 NPDES INDUSTRIAL REQUIREMENTS. THIS SECTION ALSO COVERS REQUIREMENTS FOR HAZARDOUS WASTE AND PEST MANAGEMENT.

(a.) DESCRIPTION OF MEASURES TO REDUCE / PREVENT / MINIMIZE SPILL / RELEASES OF HAZARDOUS MATERIALS STORED AND USED AT THE SITE DURING CONSTRUCTION ACTIVITIES AND TO SHOW THEIR LOCATION IN A MAP;

(b.) LOCATION OF HAZARDOUS MATERIALS STORAGE AREAS; INCLUDING TANKS AND REFUELING OPERATIONS;

(c.) SPECIFIC INFORMATION OF THE CONTRACTOR'S EMERGENCY RESPONSE TEAM AND CLEAN-UP PROCEDURES TO BE PROVIDED IN THE ENVIRONMENTAL PROTECTION PLAN (EPP). CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL EMERGENCY RESPONSE ACTIONS AT THE SITE, TO INCLUDE REMOVAL AND DISPOSAL OF CONTAMINATED MATERIALS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY AND REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

SPILL CLEANUP AND CONTROL PRACTICES:

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS.
- TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

GSWCC AND NPDES NOTES (CONT'D.):

SPILL CLEANUP AND CONTROL PRACTICES (CONT'D):

- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. THE CONTRACTOR SHOULD ALSO NOTIFY THE FOLLOWING OF ALL SPILL / RELEASES AND ALL CORRECTIVE ACTIONS TAKEN AFTER A SPILL / RELEASE AS REQUIRED:
- FOR EMERGENCY ASSISTANCE FROM THE FIRE DEPARTMENT CONTACT 911;
- FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED AT (800) 424-8802 / (202) 267-2675;
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED AT (800) 424-8802 / (202) 267-2675;
- FOR SPILLS GREATER THAN 25-GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) SHALL 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

26. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF.

STORM WATER MANAGEMENT FOR DEVELOPMENT OF THE PROJECT SITE WILL BE ACCOMPLISHED AFTER FINAL SITE CONDITIONS ARE ESTABLISHED BY MEANS OF AN EXISTING DETENTION POND THAT WAS DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE FINAL DEVELOPMENT OF THIS PROPERTY. A HYDROLOGY REPORT TITLED "STORMWATER MANAGEMENT REPORT ADDENDUM FOR DISCOVER MILLS" DATED 11/27/2000 WAS PREPARED FOR DESIGN OF THE DETENTION SYSTEM AND IS ON FILE WITH THE GWINNETT COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.

BY PROVIDING POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES, WHICH SHALL PROVIDE PERPETUAL MANAGEMENT OF RUNOFF QUALITY AND QUANTITY, THESE MEASURES WILL ENSURE THAT THE RECEIVING STREAM'S BIOLOGICAL, CHEMICAL, AND PHYSICAL CHARACTERISTICS AND FUNCTIONS ARE PROTECTED AND THAT NATURAL STREAM FUNCTIONS ARE MAINTAINED AND PROTECTED.

27. DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE:

THE CONTRACTOR MUST PROVIDE MEASURES, SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

28. DESCRIPTION OF THE PRODUCT AND SPECIFIC PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

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.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF ON-SITE ABOVE GROUND STORAGE OF PETROLEUM, OIL, AND LUBRICANT (POL) PRODUCTS EXCEEDS 1,320 GALLONS, COUNTING CONTAINERS OF 55-GALLONS OR LARGER (THIS INCLUDES CAPACITIES OF EQUIPMENT), OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL BE REQUIRED TO HAVE A SITE SPECIFIC SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES (SPCC) PLAN AT THE STATE LEVEL PREPARED AND SEALED BY A CERTIFIED DESIGN PROFESSIONAL (P.E.) IN ACCORDANCE WITH 40 CFR 112 AND APPROVED BY THE LOCAL ISSUING AUTHORITY AND/OR STATE OF GEORGIA EPD.

PAINTS / FINISHES / SOLVENTS:
ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FERTILIZER / HERBICIDES:
THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE FOLLOWING: MANUFACTURER'S SPECIFICATIONS; THE GUIDELINES SET FORTH FOR THE ESTABLISHMENT OF CROPS; THE GUIDELINES SET FORTH IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION; AND/OR, GWINNETT COUNTY STANDARDS AND SPECIFICATIONS, CURRENT EDITION. 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 ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH PROPER WASTE DISPOSAL PROCEDURES.

GSWCC AND NPDES NOTES:(CONT'D.)

29. CONSTRUCTION SCHEDULE:

THE ANTICIPATED START DATE FOR PHASE 1 0F THE PROJECT IS OCT 2021 AND IS EXPECTED TO HAVE AN APPROXIMATE TIME DURATION EIGHTEEN MONTHS FOR A CONSTRUCTION COMPLETION DATE OF DEC 2022. REFER TO SHEET NUMBER 51-0005 FOR THE PROPOSED SITE WORK CONSTRUCTION ACTIVITY SCHEDULE FOR A DESCRIPTION AND CHART / 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 INSTALLATION ACTIVITIES, TEMPORARY AND FINAL STABILIZATION, ETC...).

30. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE:

INSPECTIONS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.4.):

a. PERMITTEE REQUIREMENTS.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL, PROVIDED BY THE PRIMARY PERMITTEE, SHALL INSPECT:

(a.) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT;
(b.) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND,
(c.) MEASURE RAINFALL ONCE EACH 24-HOUR PERIOD AT THE SITE.

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

(a.) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION;
(b.) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND,
(c.) STRUCTURAL CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S): FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(3). QUALIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT

31. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.d.):

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

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

GSWCC AND NPDES NOTES (CONT'D.):

(b). THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

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

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

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

(d.) WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE) THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.a(6), MUST INCLUDE A WRITEEN JUSTIFICATION IN THE INSPECTION REPORT HWY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND

(e.) EXISTING CONSTRUCTION AVTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES, OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.E.):

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND,
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
h. RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."

CASE NUMBER : 2020-00316

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

REGISTERED GEORGIA No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARLINIS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GSWCC AND NPDES NOTES:(CONT'D.)

32. COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

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

33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.b.):
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLING POINTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.c.):
FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.

THERE ARE NO RECEIVING WATER SAMPLING POINTS ON THIS PORJECT

34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.a.(3).):

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

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMP's) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. GAR100001.

THE SELECTED NTU VALUE OF 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 6 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF APPROXIMATELY 0.01 SQUARE MILES, AND THE PROJECT RECEIVING WATER, UNNAMED TRIBUTARY TO LEE DANIEL CREEK, WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE POINT #001:
IN THE INITIAL PHASE, SAMPLE POINT 001 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #1 (Sd4) OUTLET. SAMPLE POINT 001 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE C3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #002:
IN THE INITIAL PHASE, SAMPLE POINT 002 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #2 (Sd4) OUTLET. SAMPLE POINT 002 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE B3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #003:
IN THE INITIAL PHASE, SAMPLE POINT 003 IS THE OUTFALL SAMPLE POINT LOCATED AT THE EXISTING CATCH BASIN A5.3. SAMPLE POINT 003 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO PROPOSED MANHOLE A5.1, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

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Environmental Protection Division

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APPENDIX B

Nephelometric Turbidity Unit (NTU) TABLES

Trout Streams

Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	[illegible]	[illegible]	75	150	[illegible]	[illegible]	500	500
10.01-25	25	25	[illegible]	[illegible]	[illegible]	200	500	500
25.01-50	25	25	[illegible]	[illegible]	75	100	300	500
50.01-100	20	25	25	35	[illegible]	75	150	300
100.01+	[illegible]	20	25	25	25	[illegible]	50	100

Waters Supporting Warm Water Fisheries

Surface Water Drainage Area, square miles

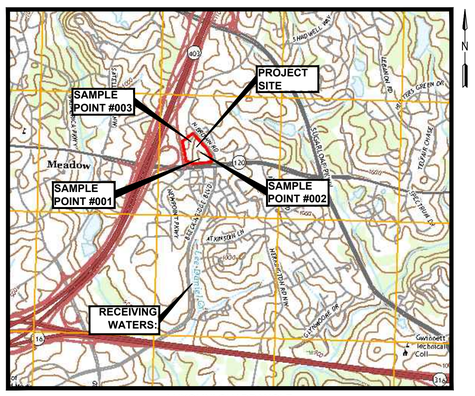
Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

35. FOR THE DELINEATION OF ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS, AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED, REFER TO SHEET NOs. 54-0001 THRU 54-0003 AND THE USGS TOPOGRAPHIC MAP BELOW.



LUXOMNI QUADRANGLE
GEORGIA
7.5 MINUTE SERIES

GSWCC AND NPDES NOTES (CONT'D.):

36. DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

EROSION CONTROLS AND MEASURES - INITIAL PHASE (INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAM (Rd), WHERE REQUIRED IN AREAS OF CONCENTRATED FLOW; SEDIMENT TRAPS (Sd4) FOR SEDIMENT STORAGE, INLET SEDIMENT TRAPS - CURB INLET PROTECTION (Sd2-P) TO PROTECT EXISTING STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND, DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2).

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW

INTERMEDIATE PHASE BMPs MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

37. FOR GRAPHIC SCALE AND NORTH ARROW, REFER TO SHEET NO. 54-0001 THRU 54-0003.

38. FOR EXISTING AND PROPOSED CONTOUR LINES, REFER TO SHEET NO. 54-0001 THRU 54-0003.

39. USE OF ALTERNATIVE BMPs WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO, OR SUPERIOR TO, CONVENTIONAL BMPs AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY GAEPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION) SHALL NOT BE UTILIZED FOR THIS PROJECT.

IF THE USE OF ALTERNATIVE EROSION AND SEDIMENT CONTROL BMPs IS DETERMINED NECESSARY BY ON-SITE INSPECTION AND/OR AS FIELD CONDITIONS DICTATE TO CONTROL OR TREAT THE SEDIMENT SOURCE, REFERENCE SHALL BE MADE TO THE "ALTERNATIVE BMP GUIDANCE DOCUMENT" FOUND AT <www.gaswcc.georgia.gov>.

40. USE OF ALTERNATIVE BMP FOR APPLICATION TO EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 2016 EDITION. NO ALTERNATIVE BMP'S ARE PROPOSED FOR THIS DEVELOPMENT.

41. APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY/ GA EPD ARE DELINEATED ON SHEETS 54-0001 THRU 54-0003.

REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV):

(i.) 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS;
(ii.) 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; AND,
(iii.) 100-FOOT UNDISTURBED BUFFERS FOR PROJECTS IN THE VICINITY OF THE CHATTAHOOCHEE RIVER.

THIS PROJECT PROPOSES NO BUFFER ENCROACHMENT WITHIN THE STATE STREAM BUFFER; THEREFORE, THERE ARE NO REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV), OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY.

NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW, OR WAVE ACTION, EXCEPT WHERE A SBV IS APPROVED BY GA EPD.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES SHALL BE USED. THIS REQUIREMENT MUST BE IMPLEMENTED REGARDLESS OF WORK THAT IS APPROVED UNDER AN SBV, OR FOR A PROJECT THAT IS EXEMPT FROM AN SBV.

GSWCC AND NPDES NOTES (CONT'D.):

42. NO WETLANDS ARE ONSITE, HOWEVER WATERS OF THE STATE ARE LOCATED ON-SITE, OR WITHIN 200-FEET OF THE PROJECT LIMITS PER EPD VISIT. THE DELINEATION OF THESE ITEMS ARE SHOWN ON SHEET NO's. 54-0001 THRU 54-0003.

NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES, SHALL BE USED.

43. FOR THE DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE, REFER TO SHEET NO. 54-0001 FOR PRE AND SHEET NO. 54-0002 FOR POST. ALSO REFER TO SHEET 53-0001 FOR OVERALL BASIN ACREAGE AND FLOW.

44. HYDROLOGIC INFORMATION AND MAPS OF DRAINAGE BASINS FOR THE MASTER DETENTION POND IN BOTH THE PRE- AND POST-DEVELOPED CONDITIONS ARE PROVIDED IN THE ORIGINAL HYDROLOGY REPORT PREPARED FOR THE DISCOVER MILLS DEVELOPMENT. REFERENCE THE FOLLOWING "STORM WATER MANAGEMENT REPORT ADDENDUM FOR DISCOVER MILLS (a.k.a. SUGARLOAF MILLS), PREPARED BY PRECISION PLANNING, DATED 11-27-2000.

45. ESTIMATE OF THE RUNOFF COEFFICIENT, OR PEAK DISCHARGE FLOW OF THE SITE, PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:

SITE RUNOFF COEFFICIENTS	
DESCRIPTION	**C**
WEIGHTED PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.12
WEIGHTED POST-CONSTRUCTION RUNOFF COEFFICIENT	0.82

46. FOR STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION, REFER TO THE THE STORM DRAIN OUTLET PROTECTION DETAIL ON SHEET NO. 56-0002.

FOR THE IDENTIFICATION / DELINEATION OF ALL STORM WATER DISCHARGE POINTS, REFER TO SHEET NO. 54-0001 THRU 54-0003.

47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION:

A. REFER TO THE SOIL SERIES INFORMATION CHART BELOW.

B. REFER TO SHEET NOs. 54-0001 THRU 54-0003 FOR PROJECT SITE SOIL SERIES BOUNDARY DELINEATIONS.

C. REFERENCES:
1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, 6 JUNE 2017. <http://websoilsurvey.nrcs.usda.gov/>

SOIL SERIES INFORMATION		
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC GROUP
AmC2	APPLING SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, ERODED	B
CfS	CHEWACLA SILT LOAM, 0 TO 2 SLOPES, FREQUENTLY FLOODED	B/D
CYB2	CECIL SANDY LOAM, 2 TO 4 PERCENT SLOPES, MODERATELY ERODED	B
CYC2	CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED	B
HdB	HARD LABOR SANDY LOAM, 2 TO 4 PERCENT SLOPES	C
LdC	LLOYD LOAM, 6 TO 10 PERCENT SLOPES	B
WrE2	WEDOWEE SANDY LOAM 10 TO 24 PERCENT SLOPES, ERODED	B

48. FOR THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION, REFER TO SHEET NO. 54-0001 THROUGH 54-0003.

CASE NUMBER : 2020-00316

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

REGISTERED No. 21371 PROFESSIONAL 8/26/2021 ENGINEER GEORGE N. KARUNAS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GSWCC AND NPDES NOTES:(CONT'D.)

49. MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED FOR EACH COMMON DRAINAGE LOCATION PER PHASE OF EROSION AND SEDIMENT CONTROL:

NOTES:

1. PERENNIAL AND INTERMITTENT WATERS OF THE STATE SHALL NOT BE USED FOR TEMPORARY OR PERMANENT SEDIMENT DETENTION.

2. MAINTENANCE AND FINAL DISPOSAL OF EXCAVATED INLET SEDIMENT TRAPS (Sd2-E) IMPLEMENTED AT THE PROJECT SITE WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION (GASWCC) MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 5th EDITION - REQUIREMENTS AS IDENTIFIED ON PAGES 6-139 AND 6-140 OF THE MANUAL; AND/OR, THE LATEST REVISION.

3. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

4. FOR SEDIMENT STORAGE CALCULATIONS FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL, REFER TO SHEET NO. 56-0006 AND 56-0009

REQUIRED SEDIMENT STORAGE SHALL BE ACCOUNTED FOR BY USE OF THE FOLLOWING BMP's DURING THE CORRESPONDING PHASE OF EROSION AND SEDIMENT CONTROL:

SEDIMENT STORAGE BMPs - INITIAL PHASE:

TWO TEMPORARY SEDIMENT TRAPS (Sd-4) WILL BE CONSTRUCTED AT THE SOUTH END OF THE SITE AND WILL BE UTILIZED AS LONG AS CONSTRUCTION PERMITS . REFER TO SHEET 54-0001 FOR SEDIMENT TRAP LOCATIONS. REFER TO SHEET 56-0009 FOR TEMPORARY SEDIMENT TRAP CALCULATIONS.

SEDIMENT STORAGE BMPs - INTERMEDIATE PHASE:

MAINTAIN TEMPORARY SEDIMENT TRAPS (Sd-4) AS LONG AS CONSTRUCTION PERMITS CONSTRUCT EXCAVATED SEDIMENT TRAPS (Sd2-E) AT ALL PROPOSED STORM DRAINAGE STRUCTURES. REFER TO SHEET NO. 54-0002 FOR BMP LOCATIONS. REFER TO SHEET NO. 56-0006 FOR EXCAVATED SEDIMENT TRAP CALCULATIONS

SEDIMENT STORAGE BMPs - FINAL PHASE:

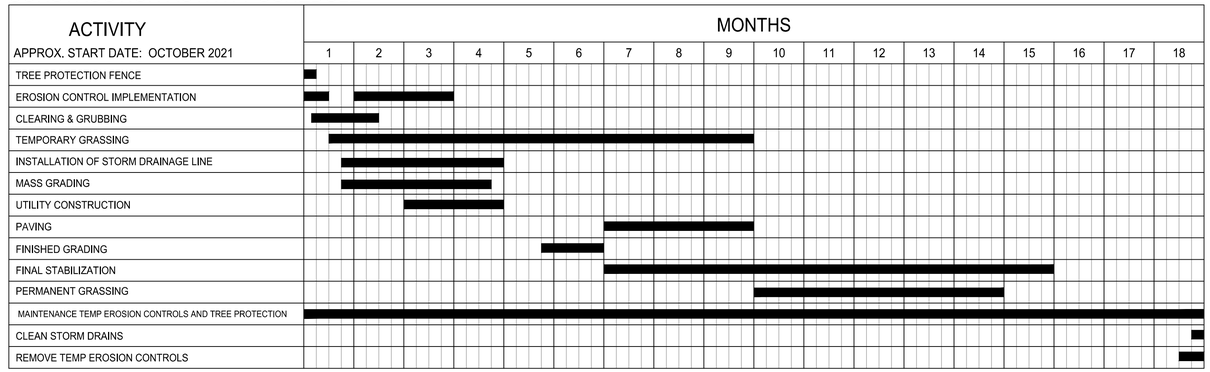
EXCAVATED SEDIMENT TRAPS (Sd2-E) WILL BE MAINTAINED AT ALL STORM DRAINAGE STRUCTURES UNTIL FINAL STABILIZATION IS ACHIEVED. THE EXISTING DETENTION POND WILL PROVIDE PERMANENT DETENTION AND WATER QUALITY TREATMENT FOR THE FULLY DEVELOPED SITE. REFER TO SHEET NO. 54-0003 FOR BMP LOCATIONS.

50. FOR PHASED EROSION AND SEDIMENT CONTROL PLANS (I.E. INITIAL PHASE INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, REFER TO SHEET NO's. 54-0001 THRU 54-0003. FOR UNIFORM CODING SYMBOLS LEGEND, REFER TO SHEET NO's. 52-0001 THRU 52-0007.

51. FOR DETAILED DRAWINGS OF EROSION AND SEDIMENTATION CONTROL STRUCTURAL PRACTICES, REFER TO SHEET NO's. 56-0001 THRU 56-0009.

52. FOR A SITE SPECIFIC VEGETATIVE PLAN NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES, INCLUDING SPECIES, PLANTING DATES, AND SEEDING, FERTILIZER, AND MULCHING RATES, REFER TO THE "SOUTHERN PIEDMONT VEGETATION PLAN" Ds1 AND Ds2 DETAIL ON SHEET NO. 56-0001.

CONSTRUCTION ACTIVITY SCHEDULE



CASE NUMBER : 2020-00316

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER GEORGE N. KARUNIS 8/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
05/14/2021		
08/26/2021		

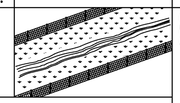
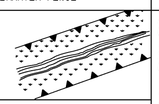
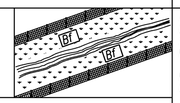
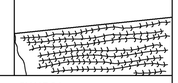
ESPC NOTES

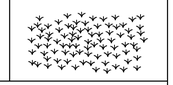
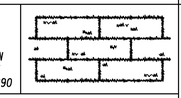
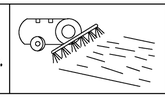
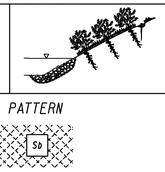
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

3/3/2016 11:35:14 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn
deagleton gplotborder-V8I-PO.tbl

P.I. No.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE LINE CODE ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
ESA	ENVIRONMENTALLY SENSITIVE AREA LINE CODE ESA-25'(OR 50')STREAM BUFFER, ETC.		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
Bf	BUFFER ZONE SYMBOL Bf		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
Ds1	MULCH SECTION 163 SYMBOL Ds1		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163, 700 SYMBOL Ds2		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700 SYMBOL Ds3		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890 PATTERN Ds4		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895 SYMBOL Fl-Co POLYACRYLAMIDE		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
Sb	STREAMBANK STABILIZATION SECTION 702 PATTERN Sb		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-001

7/31/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group

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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL LEGEND AND UNIFORM CODES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 52-0001

3/3/2016 11:35:14 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN Ss		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895 SYMBOL Tac POLYACRYLAMIDE		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 SYMBOL Cd-F	FLOW	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Fs	FLOW	A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Hb	FLOW	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603 SYMBOL Cd-S		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE Ch-1		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R1		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R3		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-002
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA	
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA	
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS		
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS		
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE		
EASEMENT FOR CONSTR OF DRIVES			

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

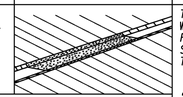
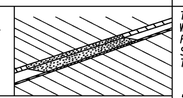
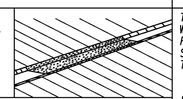
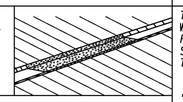
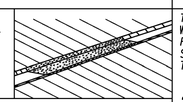
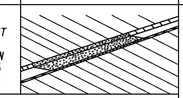
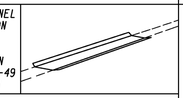
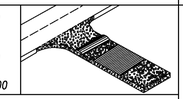
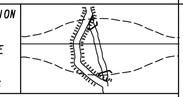
EROSION CONTROL LEGEND AND UNIFORM CODES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	52-0002
CORRECTED:		DATE:	
VERIFIED:		DATE:	

10/23/2015 GPLN

3/3/2016 11:35:14 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441 LINE CODE		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800 SYMBOL		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 LINE CODE		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-003

7/31/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL LEGEND AND UNIFORM CODES

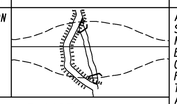
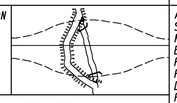
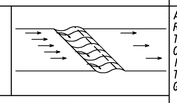
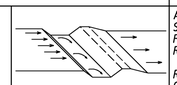
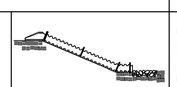
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

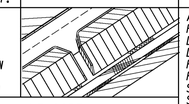
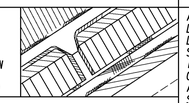
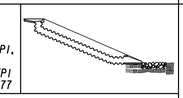
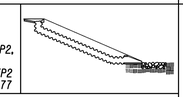
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0003

3/3/2016 11:35:15 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn
deagleton gplotborder-V8I-PO.tbl

GDOT P.I. No.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163 LINE CODE —D——D——D—(Dc-B)—D——D——D—		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163 LINE CODE —D——D——D—(Dc-C)—D——D——D—		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dl-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205 LINE CODE (Dl-1)		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS "Dn1"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
Dl-2	DIVERSION CHANNEL SECTION 205 LINE CODE (Dl-2)		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163 LINE CODE —T——T——T—(Dn1)—T——T——T—		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 LINE CODE (Dn2-A)		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 LINE CODE (Dn2-B)		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577 LINE CODE (Dn2-1)		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS. ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577 LINE CODE (Dn2-2)		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB. IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-004

7/3/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE	PL	BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

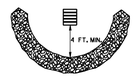
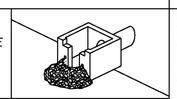
EROSION CONTROL LEGEND AND UNIFORM CODES

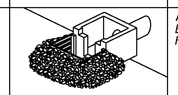
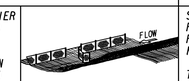
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 52-0004

10/23/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163 SYMBOL: Fr		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603 SYMBOL: Rd		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603 LINE CODE: —Rd-B—		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
Rp	RIP-RAP SECTION 603 PATTERN: Rp		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163 SYMBOL: Rt-P		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163 SYMBOL: Rt-B		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163 SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sdi-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —A—A—A—Sdi-NS—A—A—A—		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
Sdi-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —C—C—C—Sdi-S—C—C—C—		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-005

CASE NUMBER : 2020-00316

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

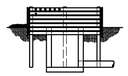
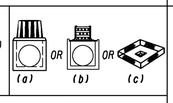
REVISION DATES

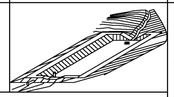
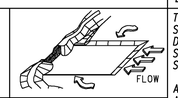
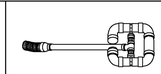
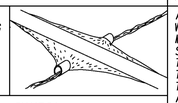
EROSION CONTROL LEGEND AND UNIFORM CODES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 52-0005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201 LINE CODE * * * Sd1-BB * * *		THIS ITEM CONSISTS OF INTERWINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-B		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-Bg		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-F		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163 SYMBOL Sd2-G		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sd3		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163 SYMBOL Sd4-C		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sk		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
Sr	TEMPORARY STREAM CROSSING SECTION 107 SYMBOL Sr		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-006

7/31/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

ATKINS
Member of the SNC-Lavalin Group

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1600 RiverEdge Parkway NW, Ste. 700
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

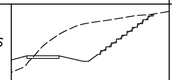
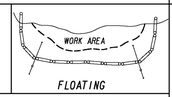
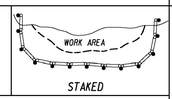
EROSION CONTROL LEGEND AND UNIFORM CODES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 52-0006

3/3/2016 11:35:16 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL St		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 <= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 <= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
	PATTERN FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL		
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE Su		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE Tc-F		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE Tc-S		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-007

7/31/2015 GPLN

CASE NUMBER : 2020-00316

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

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Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL LEGEND AND UNIFORM CODES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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

DRAWING No. 52-0007

DATE$$$ Aug 30, 2021 - 7:13am TIME$$$ $PRF8$ DGN
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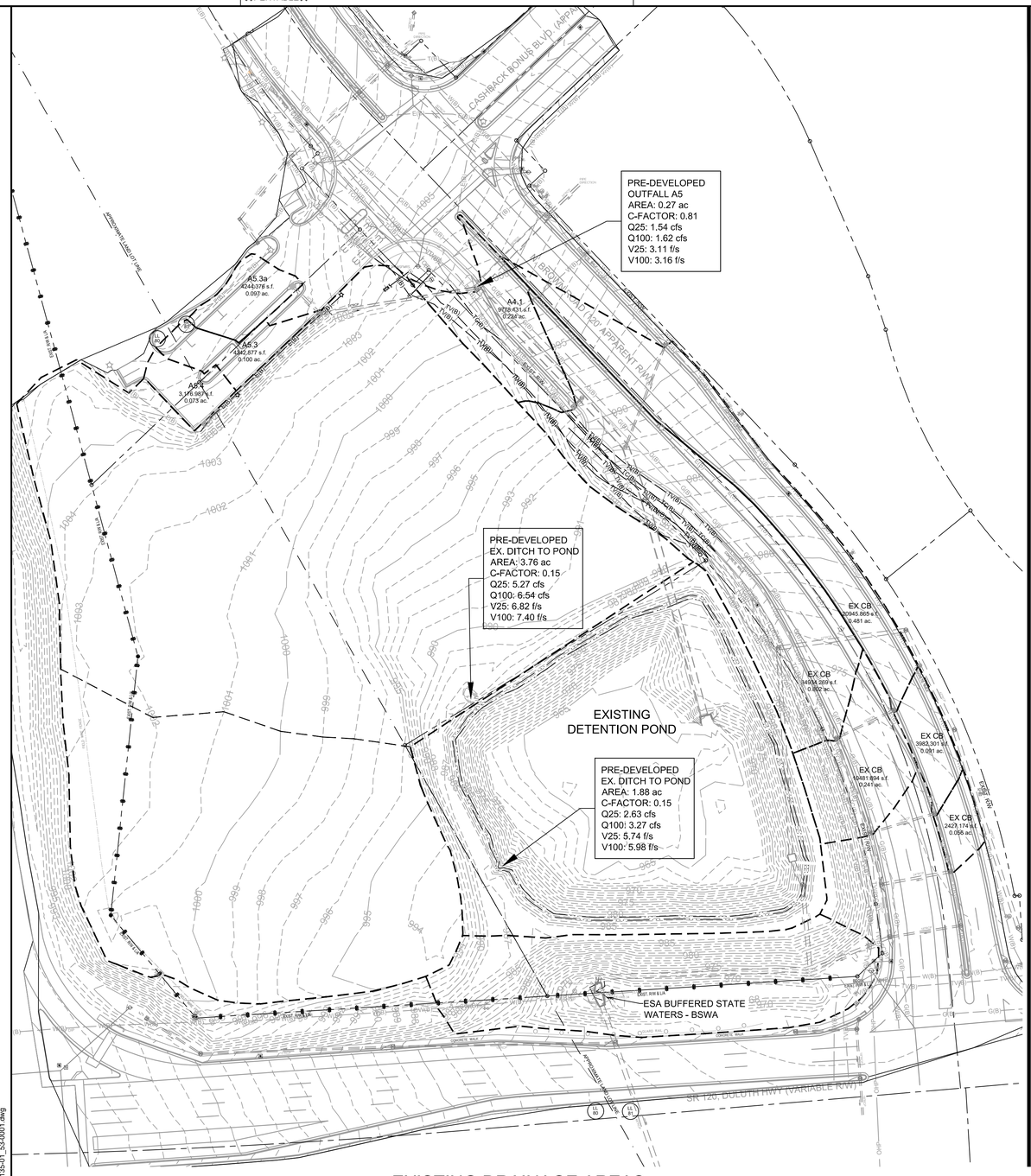
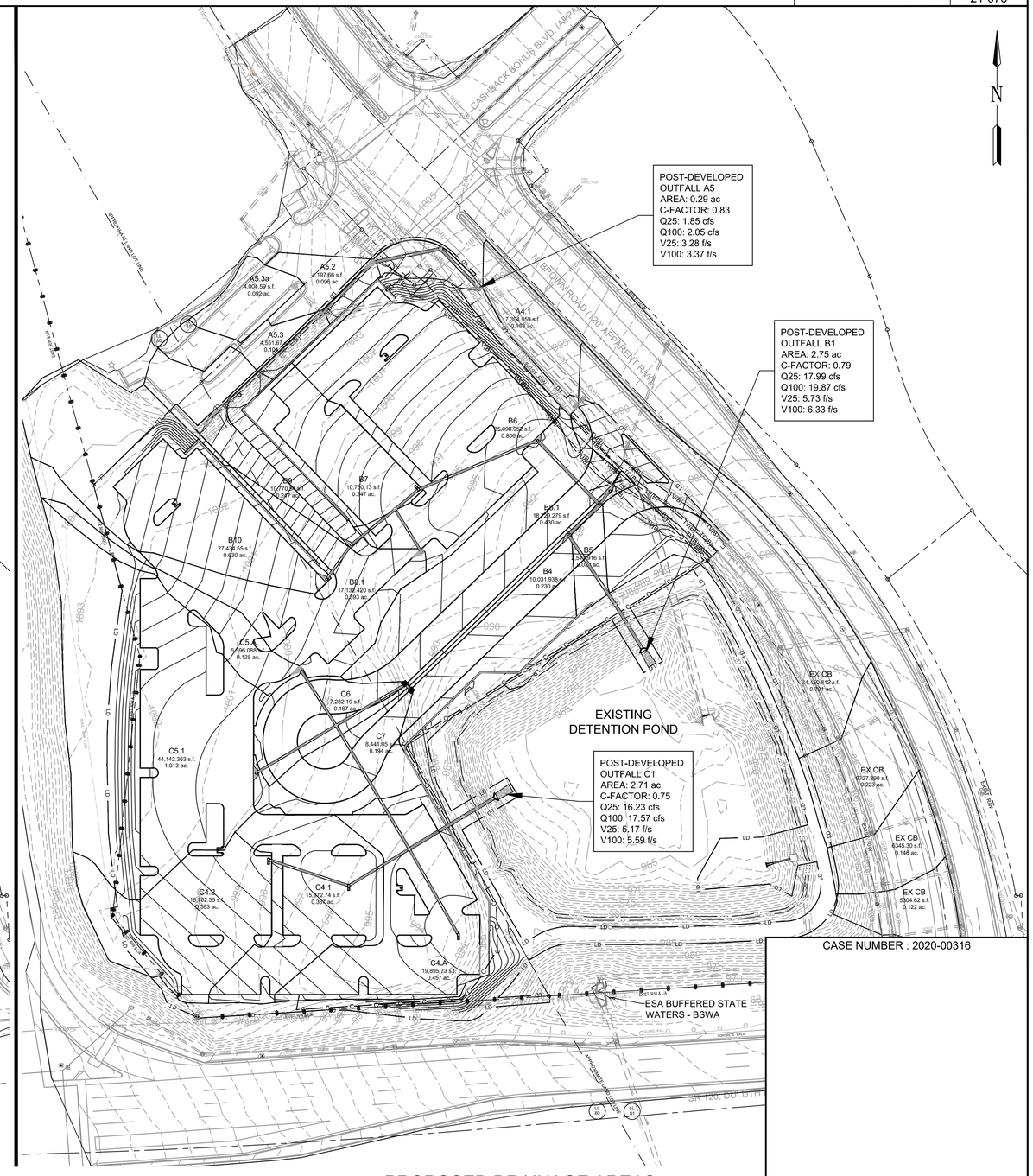
P.I. No. 21-073



EXISTING DRAINAGE AREAS



PROPOSED DRAINAGE AREAS

CASE NUMBER : 2020-00316

PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
DROP INLETS	
STORM MANHOLE	
SPOT ELEVATIONS	+ 94.50

No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KARAINOS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

11/20/2020		
05/14/2021		
08/26/2021		

ESPCP
DRAINAGE AREA MAP

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		53-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

Aug 30, 2021 - 7:13am
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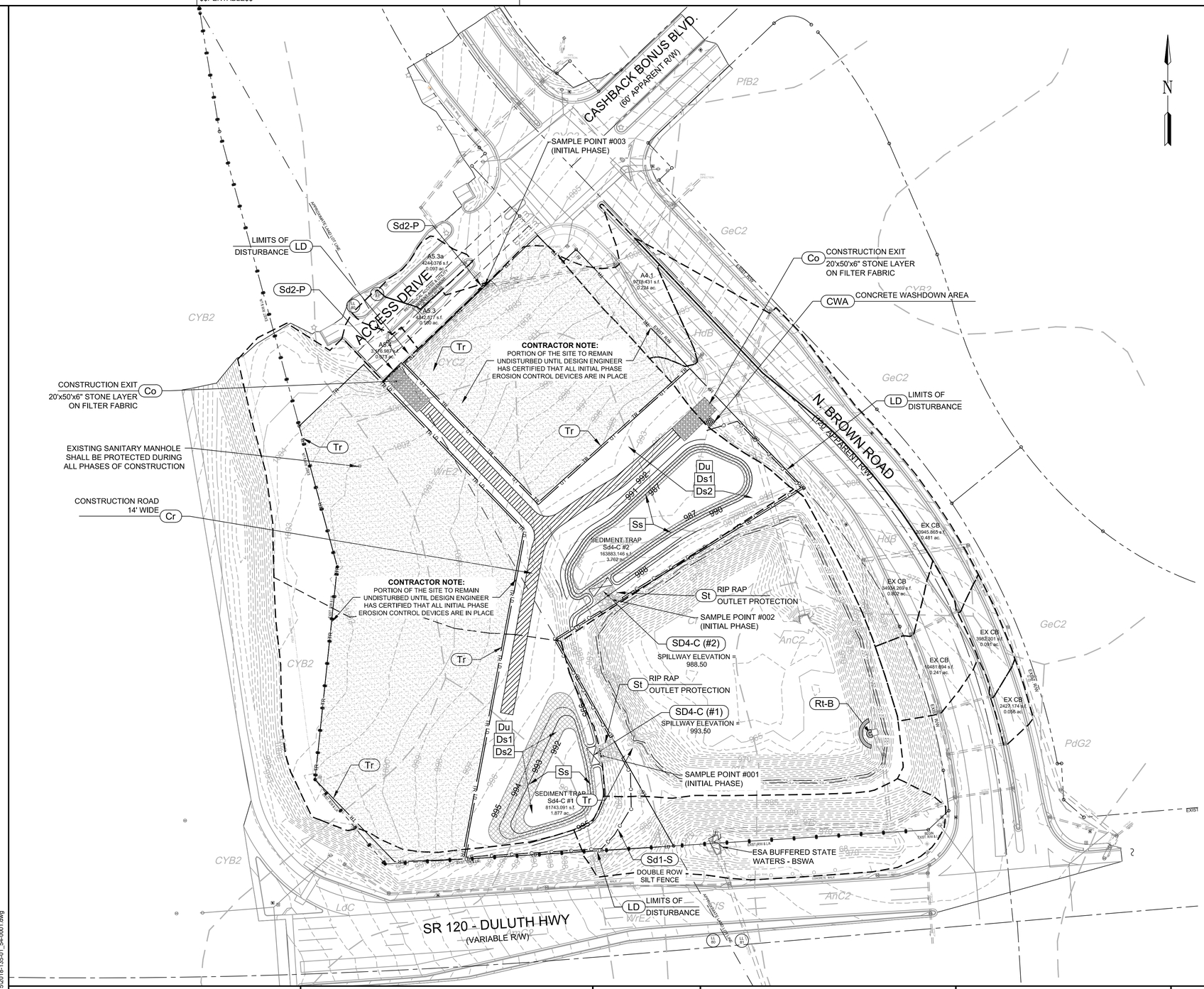

EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE") — C —
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT TRAP WITH ROCK OUTLET
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Rt-B	RETRO FIT - SLOTTED BOARD DAM
Tr	TREE PROTECTION FENCE — TR —
— LD —	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - INITIAL PHASE:

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES
SILT FENCE "TYPE-C" (Sd1-S AND Sd1-NS) FOR PERIMETER CONTROL;
TEMPORARY SEDIMENT TRAPS (Sd-4) FOR SEDIMENT STORAGE
INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES;
DUST CONTROL ON DISTURBED AREAS (Du);
SLOPE STABILIZATION (Ss) FOR AREAS INDICATED DISTURBED AREA STABILIZATION WITH TEMPORARY MULCHING ONLY(Ds1) AND/OR DISTURBED AREA STABILIZATION TEMPORARY SEEDING (Ds2).

INITIAL PHASE BMP's SHALL BE MAINTAINED AS LONG AS CONSTRUCTION PERMITS.

CASE NUMBER : 2020-00316

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.
4. EXISTING POND SHALL BE MAINTAINED. SILT AND SEDIMENT MUST BE REMOVED PRIOR TO COMPLETION OF WORK.

PROPOSED MAJOR CONTOUR	HEADWALL
PROPOSED MINOR CONTOUR	DROP INLETS
EX MAJOR CONTOUR	STORM MANHOLE
EX MINOR CONTOUR	SPOT ELEVATIONS + 94.50
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	

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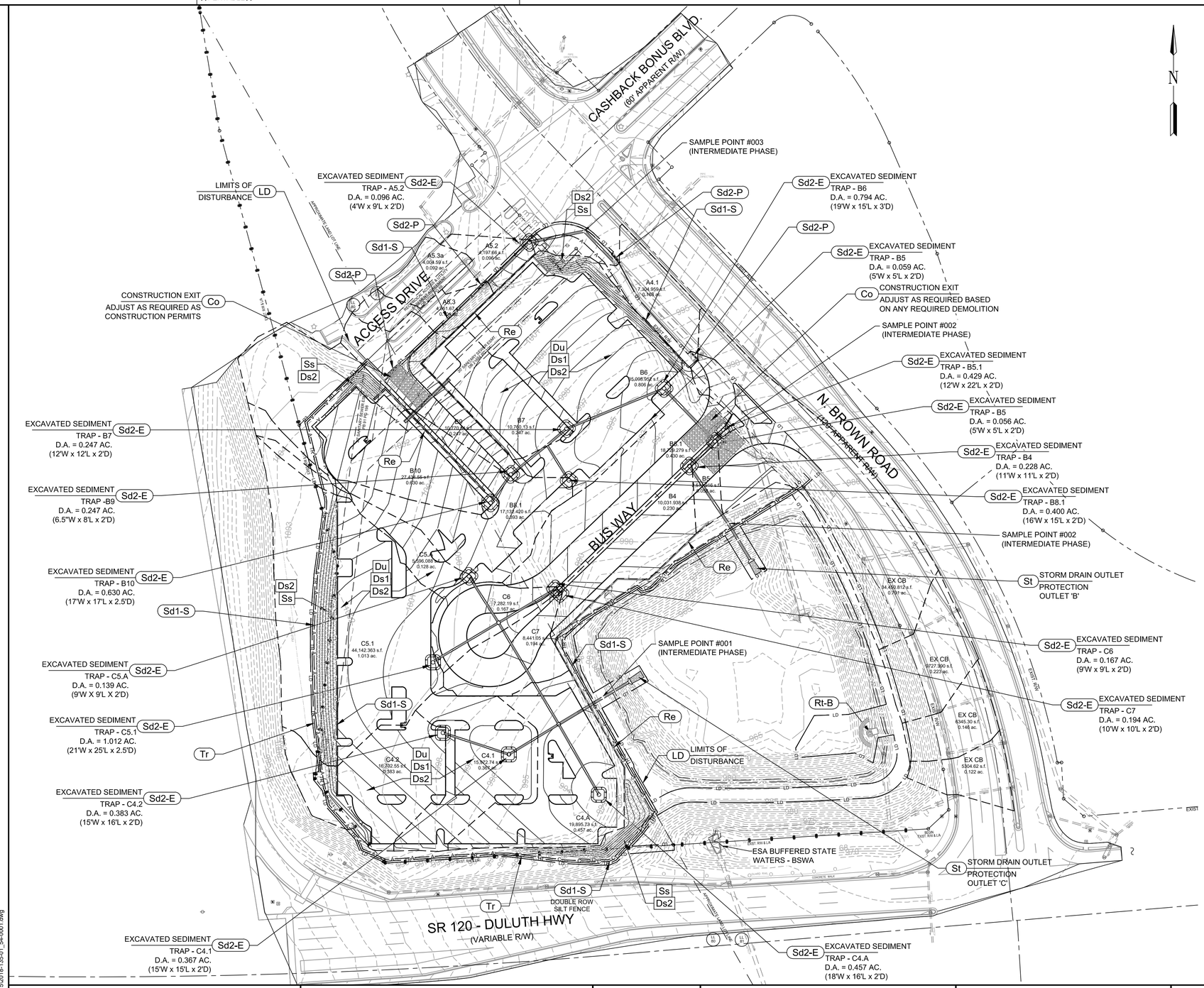
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/11/2020		
05/14/2021		
08/26/2021		

ESPCP
BMP LOCATION DETAILS
PHASE I
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		54-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE") — C —
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT BASIN
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Rt-B	RETRO FIT - SLOTTED BOARD DAM
Tr	TREE PROTECTION FENCE — TR —
— LD —	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMP's):
CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW.

INTERMEDIATE PHASE BMP's MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED.

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.
4. EXISTING POND SHALL BE MAINTAINED. SILT AND SEDIMENT MUST BE REMOVED PRIOR TO COMPLETION OF WORK.

CASE NUMBER : 2020-00316

PROPOSED MAJOR CONTOUR	HEADWALL		
PROPOSED MINOR CONTOUR	DROP INLETS		
EX MAJOR CONTOUR	STORM MANHOLE		
EX MINOR CONTOUR	SPOT ELEVATIONS		94.50
STORM PIPE			
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

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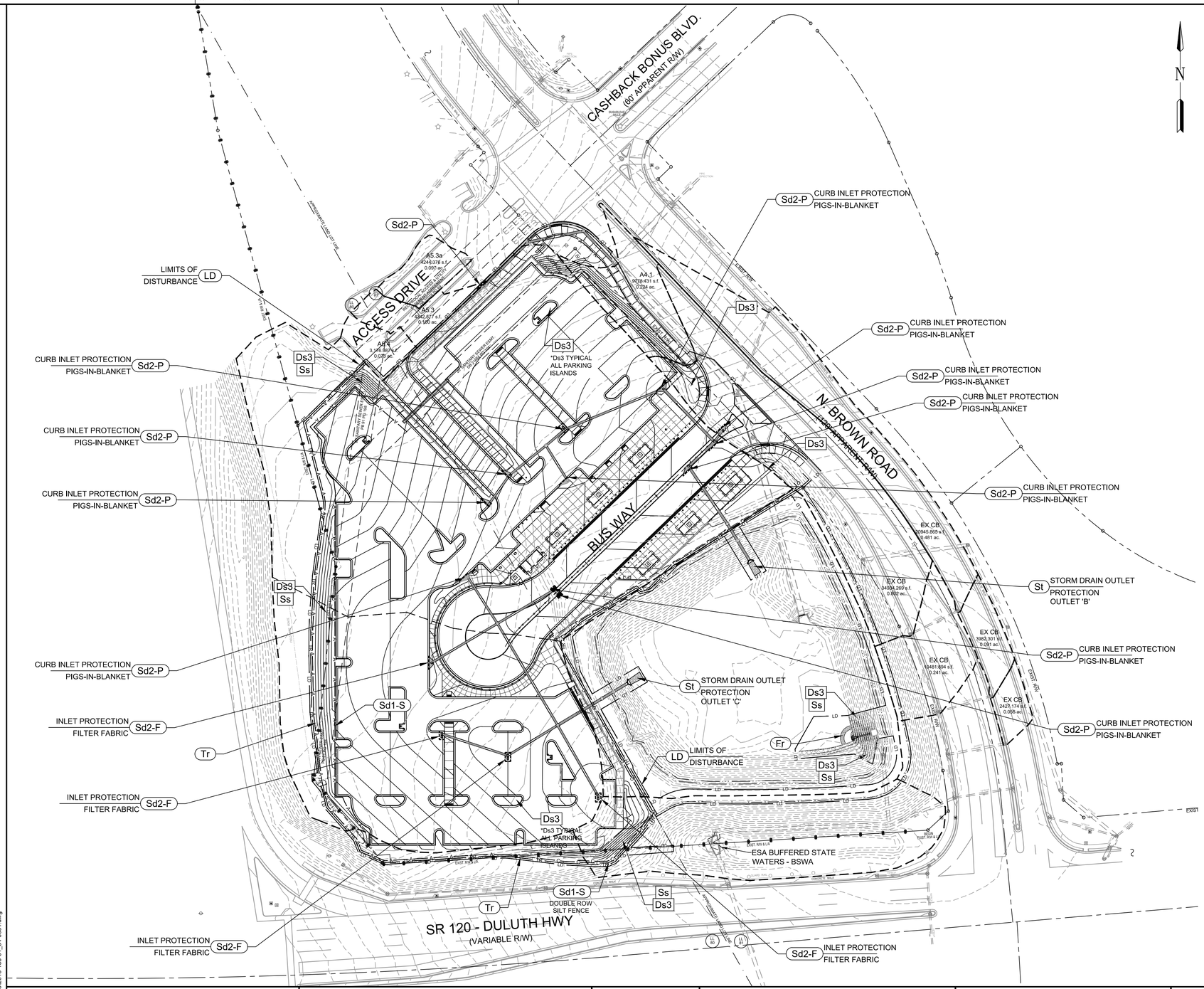
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

ESPCP
BMP LOCATION DETAILS
PHASE II
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE") — C —
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT BASIN
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Rt	RETRO FIT
Tr	TREE PROTECTION FENCE — TR —
— LD —	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/30/2021 GEORGE N. KAKUNES

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

CASE NUMBER : 2020-00316

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.
4. EXISTING POND SHALL BE MAINTAINED. SILT AND SEDIMENT MUST BE REMOVED PRIOR TO COMPLETION OF WORK.

PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
DROP INLETS	
STORM MANHOLE	ST
SPOT ELEVATIONS	+ 94.50

REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/26/2021 GEORGE N. KAKUNES

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
11/20/2020		
05/14/2021		
06/30/2021		
08/26/2021		

ESPCP
BMP LOCATION DETAILS
PHASE III

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		54-0003
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

Ds1 - DISTURBED AREA STABILIZATION (w/ MULCHING ONLY)		
MATERIAL	BROADCAST RATE	MATERIAL DEPTH
DRY STRAW (OR, HAY)	2-1/2 TONS / ACRE	2 - 4 INCHES
WOOD WASTE (CHIPS, SAWDUST, OR BARK)	6 - 9 TONS / ACRE	2 - 3 INCHES
CUTBACK ASPHALT (SLOW CURING)	1,200 GAL. / ACRE (1/4 GAL. / SQ.YD.)	-
POLYETHYLENE FILM	REFER TO MANUFACTURER'S RECOMMENDATIONS	-
GEOTEXTILES, JUTE MATTING, NETTING, ETC...	REFER TO MANUFACTURER'S RECOMMENDATIONS	-

NOTE:

REFER TO PAGES 6-33 AND 6-34 OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, FOR ADDITIONAL INFORMATION.

Ds1 **DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)** (NOT TO SCALE) 01 / 56-0001

Dust Control on Disturbed Areas

Du

DEFINITION

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

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

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

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 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 muck 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 that 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 that 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.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

GSWCC 2016 Edition 6-55

Du **DUST CONTROL ON DISTURBED AREAS** (NOT TO SCALE) 02 / 56-0001

SOUTHERN PIEDMONT VEGETATION PLAN

Ds2 - DISTURBED AREA STABILIZATION W/ TEMPORARY SEED			
PLANTING DATES	TEMPORARY SEED SPECIES	BROADCAST RATE / ACRE	BROADCAST RATE / 1,000 sq.ft.
JAN. 1 - JAN. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
FEB. 1 - FEB. 29	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
MAR. 1 - MAR. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
APR. 1 - APR. 30	MILLET, BROWNTOP	40 LBS.	0.9 LBS.
MAY 1 - MAY 31	MILLET, BROWNTOP	40 LBS.	0.9 LBS.
JUN. 1 - JUN. 30	SUDANGRASS	60 LBS.	1.4 LBS.
JUL. 1 - JUL. 31	SUDANGRASS	60 LBS.	1.4 LBS.
AUG. 1 - AUG. 31	SUDANGRASS	60 LBS.	1.4 LBS.
SEP. 1 - SEP. 30	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
OCT. 1 - OCT. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
NOV. 1 - NOV. 30	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
DEC. 1 - DEC. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.

Ds2 - TEMPORARY VEGETATION / MULCHING

GENERAL:

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS, AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

TREATMENT SPECIFICATIONS:

(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1) GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, WITH STRAW OR HAY MULCH SPREAD UNIFORMLY OVER THE AREA LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT, OR BY HAND, AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT, OR A SPECIAL PACKER DISK, MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

LIME: APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE, OR AS RECOMMENDED BY SOIL TESTS.

FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

MULCHING RATES (FOR TEMPORARY VEGETATION):
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2.5 TONS PER ACRE.
3. WOOD CELLULOSE MULCH OR WOOD PULP FIBER: 500 LBS PER ACRE.

TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

SECOND YEAR FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

Ds3 - DISTURBED AREA STABILIZATION W/ PERMANENT SEED			
PLANTING DATES	TEMPORARY SEED SPECIES	BROADCAST RATE / ACRE	BROADCAST RATE / 1,000 sq.ft.
JAN. 1 - JAN. 31	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
FEB. 1 - FEB. 29	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
MAR. 1 - MAR. 31	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
APR. 1 - APR. 30	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
MAY 1 - MAY 31	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
JUN. 1 - JUN. 30	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
JUL. 1 - JUL. 31	LESPEDEZA, SERICEA	75 LBS.	1.7 LBS.
AUG. 1 - AUG. 31	LESPEDEZA, SERICEA	75 LBS.	1.7 LBS.
SEP. 1 - SEP. 30	FESCUE, TALL	50 LBS.	1.1 LBS.
OCT. 1 - OCT. 31	FESCUE, TALL	50 LBS.	1.1 LBS.
NOV. 1 - NOV. 30	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
DEC. 1 - DEC. 31	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.

Ds3 - PERMANENT VEGETATION / MULCHING

GENERAL:

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS, AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

TREATMENT SPECIFICATIONS:

(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1) GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, WITH STRAW OR HAY MULCH SPREAD UNIFORMLY OVER THE AREA LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT, OR BY HAND, AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT, OR A SPECIAL PACKER DISK, MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

LIME: APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE, OR AS RECOMMENDED BY SOIL TESTS.

FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

MULCHING RATES (FOR PERMANENT VEGETATION):
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2.5 TONS PER ACRE.
3. WOOD CELLULOSE MULCH OR WOOD PULP FIBER: 500 LBS PER ACRE.

TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

SECOND YEAR FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

Ds2 **DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)** (NOT TO SCALE) 03 / 56-0001

Ds3 **DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)** (NOT TO SCALE) 04 / 56-0001

Table 6-5.1. Fertilizer Requirements

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

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

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
11/20/2020		
08/26/2021		

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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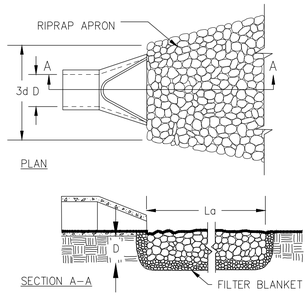
BACKCHECKED:		DATE:		56-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

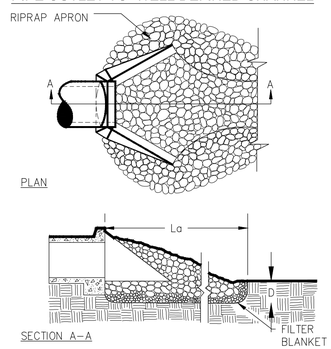
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



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

PIPE OUTLET TO WELL DEFINED CHANNEL

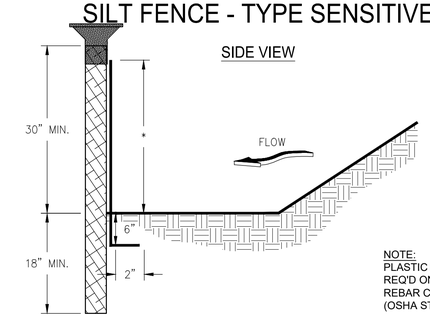


St — **STORM DRAIN OUTLET PROTECTION** (NOT TO SCALE) — 07 / 56-0002

FLOW CHARACTERISTICS					RIP-RAP APRON SIZING					
OUTFALL ID	PIPE DIA. (in)	FLOW RATE (cfs)	VELOCITY (ft/s)	TAILWATER CONDITION	APRON LENGTH La (ft)	WIDTH AT HEADWALL W1 (ft)	WIDTH DOWNSTREAM W2 (ft)	AVERAGE STONE DIA. D50 (in)	MAX. STONE DIA. Dmax (in)	STONE DEPTH D (in)
B-1	24	17.99	5.73	MAXIMUM	15.00	6.00	8.00	4	6	9
C-1	24	16.23	5.17	MAXIMUM	15.00	6.00	8.00	4	6	9

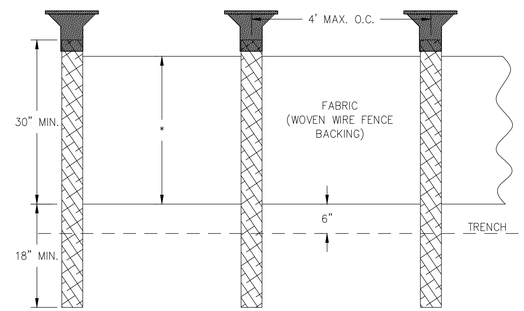
SILT FENCE - TYPE SENSITIVE

SIDE VIEW



NOTE:
PLASTIC PROTECTIVE CAP REQ'D ON ALL POSTS (TYP.)
REBAR CAP OR EQUIVALENT (OSHA STD. No. 1926.701(b)).

FRONT VIEW



NOTES:
1. USE STEEL ~~OR WOOD~~ POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S — **SEDIMENT BARRIER SILT FENCE ("TYPE-C")** (NOT TO SCALE) — 05 / 56-0002

MAINTENANCE STATEMENT (Sd1-S):

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Table 6-27.2 Post Size

Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood	3"dia or 2"x4"
		Steel	1.5" x1.5" 1.15lb./ft. min
S	4'	Steel Oak	1.15-1.25 lb./ ft. min 2"x2"

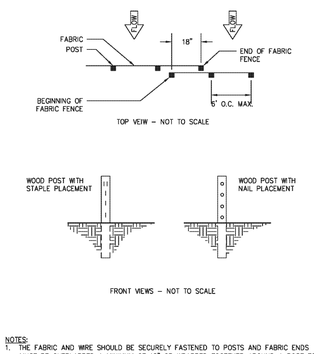
Table 6-27.3 Fasteners for Wood Posts

	Gauge	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/ Post
Nails	17 min.	1"	3/4"	4 min.

Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



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

Figure 6-27.5

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

GEORGE N. KAKLINIS No. 21371 PROFESSIONAL ENGINEER 8/26/2021

REVISION DATES		
11/20/2020		
06/30/2021		
08/26/2021		

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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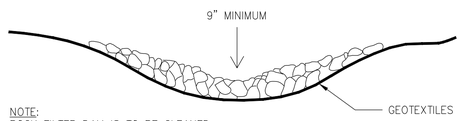
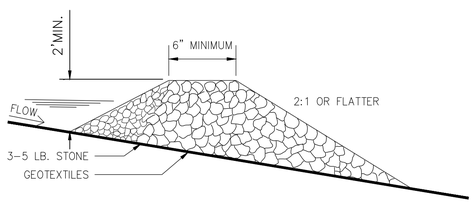
VERIFIED:		DATE:		

ROCK FILTER DAM



NOTE:
ROCK FILTER DAM IS TO BE CLEANED
OUT WHEN VOLUME BECOMES HALF FULL.



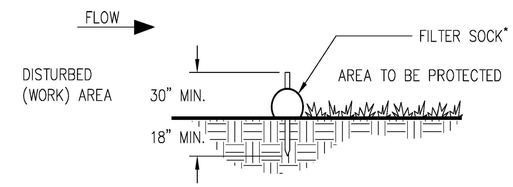
NOTE:
ROCK SIZE DETERMINED ACCORDING TO
SPECIFICATIONS SET FORTH IN APPENDIX C.

Rd **ROCK FILTER DAM** (NOT TO SCALE) 10 / 56-0003

EROSION AND SEDIMENT CONTROL

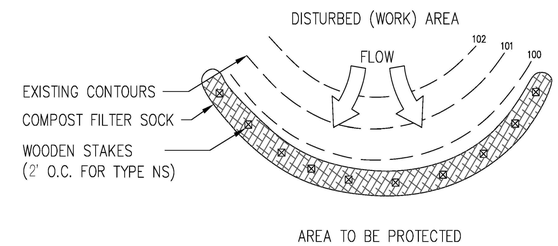
TYPE B COMPOST FILTER SOCK

CROSS-SECTION



NOTE: FILTER SOCK SIZED TO SUIT
CONDITIONS AND AT LEAST 18" DIA
(SEE EQUIVALENT LIST)

PLAN



*HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

Figure 6-27.3

GSWCC 2016 Edition 6-143

Sd1-CFS **COMPOSITE FILTER SOCK - TYPE 'B'** (NOT TO SCALE) 22 / 56-0003

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Certificate of Authorization #PEF000902
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ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		56-0003
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in:_____

2. Above 2.0 cfs: Yes_____ No_____

3. If Yes, list BMP being used in conjunction with check dams:_____

STONE CHECK DAM

SPACING BETWEEN CHECK DAMS

A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

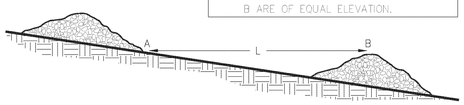
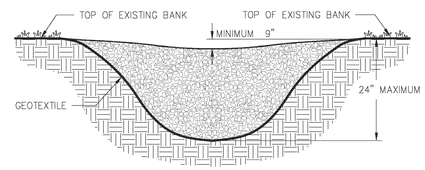


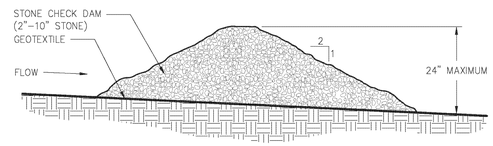
Figure 6-12.1

STONE CHECK DAM

CROSS SECTION



PROFILE VIEW



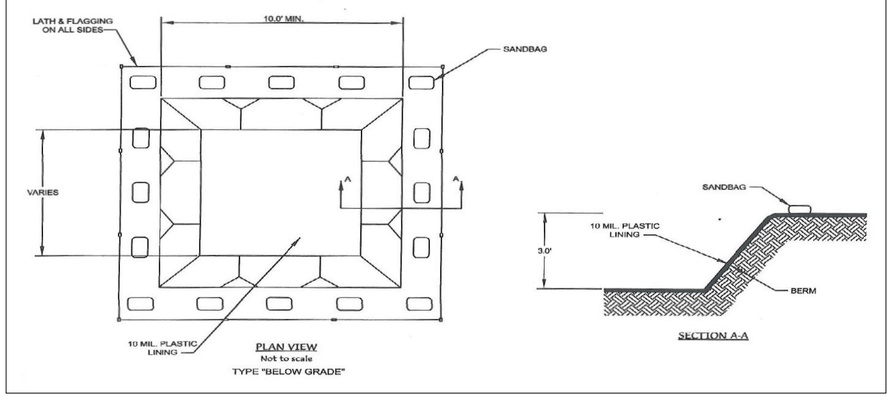
NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288–96, SECTION 7.3, TABLE 3).

Figure 6-12.2

Cd — **CHECK DAM** (NOT TO SCALE) — 11 / 56-0004

CONCRETE WASHDOWN

1. THE CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT FACILITY AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL SHOWN BELOW.
2. THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
3. WASH OUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS, AND OTHER EQUIPMENT SHALL NOT BE DISCHARGED INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
4. EXCESS CONCRETE SHALL NOT BE DISPOSED OF ON SITE. ALL EXCESS CONCRETE SHALL BE TRANSPORTED OFF-SITE AND DISPOSED OF PROPERLY.
5. IT IS PROHIBITED TO WASH OUT THE MIXING DRUM OF CONCRETE TRUCKS ON-SITE.



CWA — **CONCRETE WASHDOWN AREA** (NOT TO SCALE) — 12 / 56-0004

CASE NUMBER : 2020-00316

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REGISTERED PROFESSIONAL ENGINEER NO. 21371 8/26/2021 GEORGE N. KARUNOS

REVISION DATES		
11/20/2020		
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ESPC DETAILS

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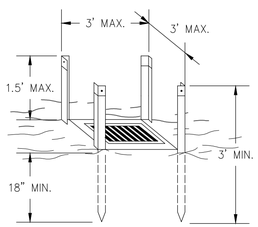
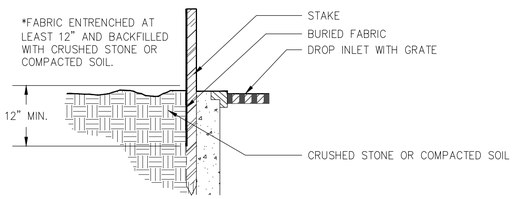
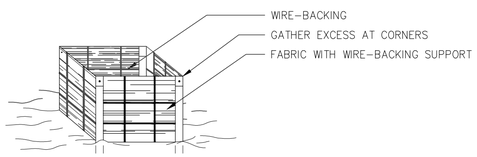
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.





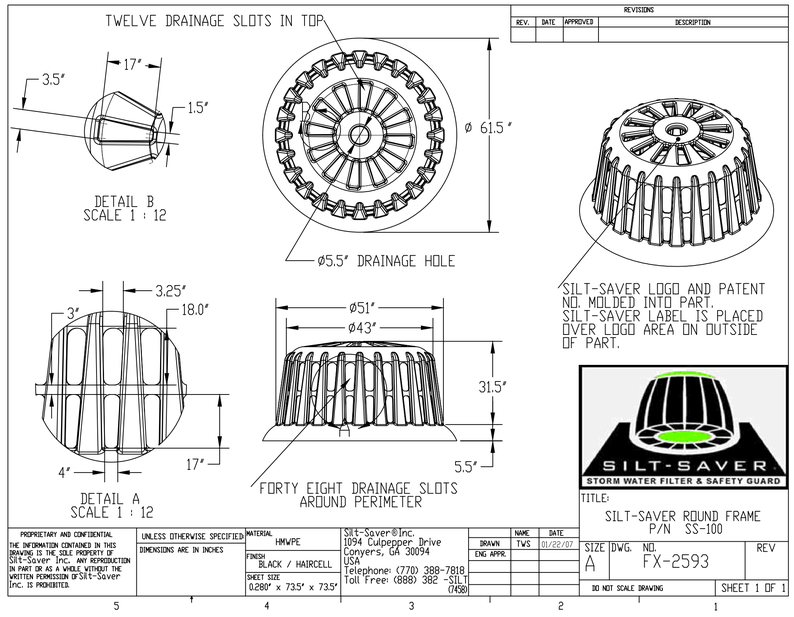
INLET SEDIMENT TRAP (FABRIC & FRAME) — Sd2-F — (NOT TO SCALE) — 13 / 56-0006

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT 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.



INLET SEDIMENT TRAP (FABRIC & FRAME ALTERNATIVE) — Sd2-F — (NOT TO SCALE) — 14 / 56-0005

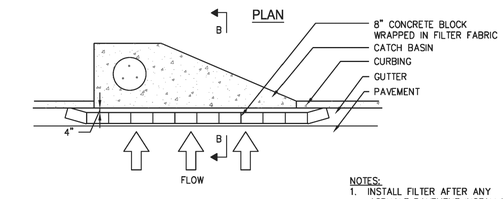
MAINTENANCE STATEMENT (Sd2-F):

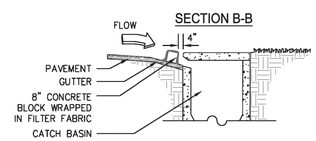
THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT 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.

CURB INLET FILTER "PIGS IN BLANKET"





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

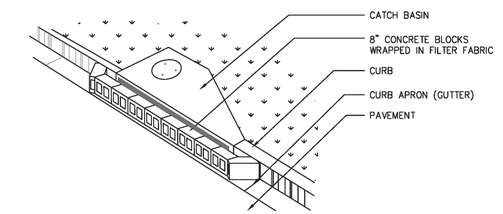


Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

6-154 GSWCC 2016 Edition

INLET SEDIMENT TRAP (PIGS IN BLANKET) — Sd2-P — (NOT TO SCALE) — 15 / 56-0005

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT 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.

CASE NUMBER : 2020-00316

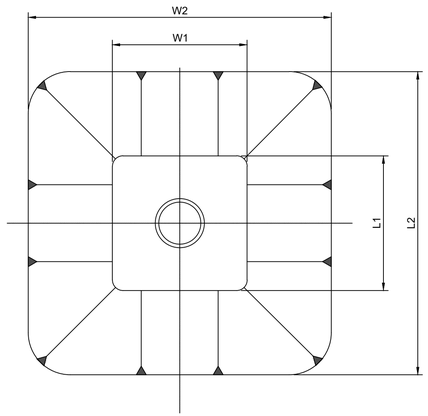
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
11/20/2020
08/26/2021

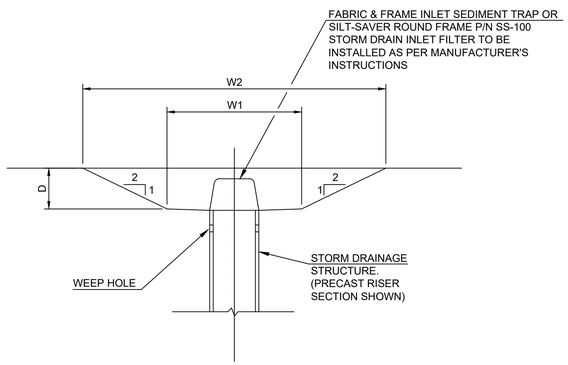
ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		



PLAN
(NOT TO SCALE)



SECTION
(NOT TO SCALE)

Sd2-E **INLET SEDIMENT TRAP - EXCAVATED** (NOT TO SCALE) 17 / 56-0006

Inlet Sediment Trap A5.2
1. **Drainage area =** 0.096 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.096 ac
Required sediment storage = 6.432 cy = 173.664 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 173.664 cf / 2 ft
Samin = 86.832 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 9 ft **SAact =** 204
w = 4 ft Area Acceptable
Volume Required = 173.664
Volume Provided = 176 Volume Acceptable

Inlet Sediment Trap B4
1. **Drainage area =** 0.228 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.228 ac
Required sediment storage = 15.276 cy = 412.452 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 412.452 cf / 2 ft
Samin = 206.226 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 11 ft **SAact =** 361
w = 11 ft Area Acceptable
Volume Required = 412.452
Volume Provided = 418 Volume Acceptable

Inlet Sediment Trap B5
1. **Drainage area =** 0.056 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.056 ac
Required sediment storage = 3.752 cy = 101.304 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 101.304 cf / 2 ft
Samin = 50.652 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 5 ft **SAact =** 169
w = 5 ft Area Acceptable
Volume Required = 101.304
Volume Provided = 130 Volume Acceptable

Inlet Sediment Trap B5.1
1. **Drainage area =** 0.429 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.429 ac
Required sediment storage = 28.743 cy = 776.061 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 776.061 cf / 2 ft
Samin = 388.0305 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 22 ft **SAact =** 600
w = 12 ft Area Acceptable
Volume Required = 776.061
Volume Provided = 800 Volume Acceptable

Inlet Sediment Trap B6
1. **Drainage area =** 0.749 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.749 ac
Required sediment storage = 50.183 cy = 1354.941 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 3 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1354.941 cf / 3 ft
Samin = 451.647 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 19 ft **SAact =** 837
w = 15 ft Area Acceptable
Volume Required = 1354.941
Volume Provided = 1467 Volume Acceptable

Inlet Sediment Trap B7
1. **Drainage area =** 0.247 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.247 ac
Required sediment storage = 16.549 cy = 446.823 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 446.823 cf / 2 ft
Samin = 223.4115 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 12 ft **SAact =** 400
w = 12 ft Area Acceptable
Volume Required = 446.823
Volume Provided = 480 Volume Acceptable

Inlet Sediment Trap B8.1
1. **Drainage area =** 0.4 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.4 ac
Required sediment storage = 26.8 cy = 723.6 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 723.6 cf / 2 ft
Samin = 361.8 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16 ft **SAact =** 552
w = 15 ft Area Acceptable
Volume Required = 723.6
Volume Provided = 728 Volume Acceptable

Inlet Sediment Trap B9
1. **Drainage area =** 0.121 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.121 ac
Required sediment storage = 8.107 cy = 218.889 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 218.889 cf / 2 ft
Samin = 109.4445 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 8 ft **SAact =** 232
w = 6.5 ft Area Acceptable
Volume Required = 218.889
Volume Provided = 220 Volume Acceptable

Inlet Sediment Trap B10
1. **Drainage area =** 0.619 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.619 ac
Required sediment storage = 41.473 cy = 1119.771 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2.5 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1119.771 cf / 2.5 ft
Samin = 447.9084 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 17 ft **SAact =** 729
w = 17 ft Area Acceptable
Volume Required = 1119.771
Volume Provided = 1147.5 Volume Acceptable

Inlet Sediment Trap C4.A
1. **Drainage area =** 0.457 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.457 ac
Required sediment storage = 30.619 cy = 826.713 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 826.713 cf / 2 ft
Samin = 413.3565 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16 ft **SAact =** 624
w = 18 ft Area Acceptable
Volume Required = 826.713
Volume Provided = 848 Volume Acceptable

Inlet Sediment Trap C5.1 0.069
1. **Drainage area =** 0.367 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.367 ac
Required sediment storage = 24.589 cy = 663.903 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 663.903 cf / 2 ft
Samin = 331.9515 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 15 ft **SAact =** 529
w = 15 ft Area Acceptable
Volume Required = 663.903
Volume Provided = 690 Volume Acceptable

Inlet Sediment Trap C4.2 0.069
1. **Drainage area =** 0.383 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.383 ac
Required sediment storage = 25.661 cy = 692.847 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 692.847 cf / 2 ft
Samin = 346.4235 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16 ft **SAact =** 552
w = 15 ft Area Acceptable
Volume Required = 692.847
Volume Provided = 728 Volume Acceptable

Inlet Sediment Trap C5.A
1. **Drainage area =** 0.139 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.139 ac
Required sediment storage = 9.313 cy = 251.451 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 251.451 cf / 2 ft
Samin = 125.7255 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 9 ft **SAact =** 289
w = 9 ft Area Acceptable
Volume Required = 251.451
Volume Provided = 306 Volume Acceptable

Inlet Sediment Trap C5.1
1. **Drainage area =** 1.016 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 1.016 ac
Required sediment storage = 68.072 cy = 1837.944 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2.5 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1837.944 cf / 2.5 ft
Samin = 735.1776 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 25 ft **SAact =** 1085
w = 21 ft Area Acceptable
Volume Required = 1837.944
Volume Provided = 1887.5 Volume Acceptable

CASE NUMBER : 2020-00316

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT 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.

NOTE (Sd2-E):
THE DIMENSIONS SHOWN FOR LENGTH AND WIDTH ON THE CALCULATION SHEETS CORRESPOND TO "L1" AND "W1" AS SHOWN ON THE EXCAVATED INLET SEDIMENT TRAP DETAIL.

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Expiration Date 06/30/2022

REVISION DATES
11/20/2020
05/14/2021
08/26/2021

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:
DRAWING No. 56-0006

Slope Stabilization

Ss

DEFINITION

A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

PURPOSE

To provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate that protects young vegetation and promotes its establishment. If using slope stabilization to reinforce channels, please refer to specification, **Ch- Channel Stablization**.

CONDITIONS

Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

PLANNING CONSIDERATIONS

Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

Rolled Erosion Control Products (RECP)

A natural fiber blanket with single or double photodegradable or biodegradable nets.

Hydraulic Erosion Control Products (HECP)

HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil particles. Paper mulch should not be used for erosion control.

CRITERIA

Rolled Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):

- Installation and stapling of RECPs and application rates for the HECPs shall conform to manufacturer's guidelines for application
- Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5ft/sec on slopes 3:1 or greater with a height of 10 feet or greater.

Materials – HECP

Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fiberous components should be all natural or biodegradable.

Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

Materials – RECP

Blankets shall be nontoxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At minimum, the plastic or biodegradable netting shall be stitched to the fibrous matrix to maximize strength and provide for ease of handling.

RECPs are categorized as follows:

a. Short-Term
(functional longevity 12 mo.)

i. Photodegradable

Straw blankets with a top and bottom side photo degradable net. The maximum size of the mesh should be openings of ½" X ½". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

ii. Biodegradable

Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are

twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

b. Extended-Term
(functional longevity 24 mo.)

i.Photodegradable

Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per square yard.

ii.Biodegradable

Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.65 lbs per square yard.

c. Long-Term
(functional longevity 36 mo.)

i. Photodegradable

Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

iii. Biodegradable

Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

NOTES

It is the intention of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

Site Preparation

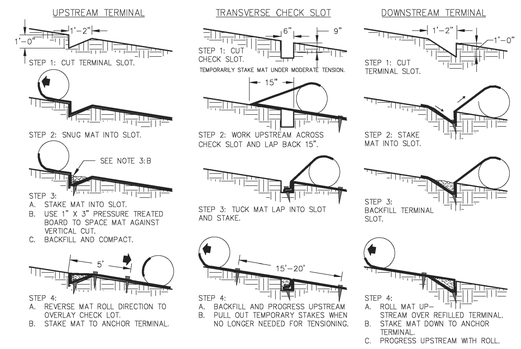
After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

MAINTENANCE

All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



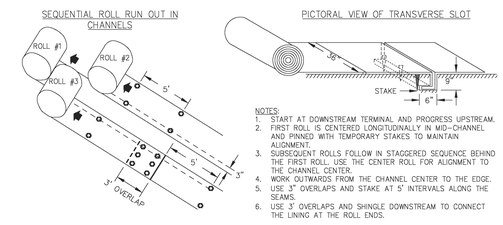


Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

Ss **SLOPE STABILIZATION** (NOT TO SCALE) 20 / 56-0007

CASE NUMBER : 2020-00316

ATKINS
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Certificate of Authorization #PEF000902
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REVISION DATES		
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ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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VERIFIED:		DATE:		

Construction Road Stabilization

Cr

DEFINITION

A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes.

PURPOSE

To provide a fixed travel route for construction traffic and reduce erosion and subsequent regrading of permanent roadbeds between time of initial grading and final stabilization.

CONDITIONS

This practice is applicable where travelways are needed in a planned land use area or wherever stone-base roads or parking areas are constructed, whether permanent or temporary, for use by construction traffic.

PLANNING CONSIDERATIONS

Areas graded for construction vehicle transport and parking purposes are especially susceptible to erosion. The exposed soil is continuously disturbed, eliminating the possibility of stabilization with vegetation. The prolonged exposure of the roads and parking areas to surface runoff can create severe rilling and muddying of the areas, requiring regrading before paving. The soil removed during this process may enter streams and other waters of the state via stormwater management systems, compromising the water quality. Also, because the roads become so unstable during wet weather, they are virtually unusable, limiting access, and causing delays in construction.

DESIGN CRITERIA

Temporary Roads and Parking Areas

The type of vehicle or equipment, speed, loads, climatic, and other conditions under which vehicles and equipment are expected to operate shall be considered.

Location

Temporary roads shall be located to serve the purpose intended, facilitate the control and disposal of water, control or reduce erosion, and make the best use of topographic features.

Temporary roads shall follow the contour of the natural terrain to minimize disturbance of drainage patterns. If a temporary road must cross a stream, the crossing must be designed, installed and maintained according to specification **Sr - Temporary Stream Crossing**.

Temporary parking areas should be located on naturally flat areas to minimize grading.

Grade and Alignment

The gradient and vertical and horizontal alignment shall be adapted to the intensity of use, mode of travel, and level of development.

Grades for temporary roads should not exceed 10 percent except for very short lengths (200 feet or less), but maximum grades of 20 percent or more may be used if necessary for special uses. Frequent grade changes generally cause fewer erosion problems than long continuous gradients.

Curves and switchbacks must be of sufficient radius for trucks and other large vehicles to negotiate easily. On temporary roads, the radius should be no less than 35 feet for standard vehicles and 50 feet for tractor-trailers.

Grades for temporary parking areas should be sufficient to provide drainage but should not exceed 4 percent.

Width

Temporary roadbeds shall be at least 14 feet wide for one-way traffic and 20 feet wide for two-way traffic. The width for two-way traffic shall be increased approximately 4 feet for trailer traffic. A minimum shoulder width shall be 2 feet on each side. Where turnouts are used, road width shall be increased to a minimum of 20 feet for a

distance of 30 feet.

Side Slopes

All cuts and fills shall have side slopes designed to be stable for the particular site conditions and soil materials involved. All cut and fills shall be 2:1 or flatter to the extent possible. When maintenance by machine mowing is planned, side slopes shall be no steeper than 3:1.

Drainage

The type of drainage structure used will depend on the type of enterprise and runoff conditions. The capacity and design shall be consistent with sound engineering principles and shall be adequate for the class of vehicle, type of road, development, or use. Structures should be designed to withstand flows from a 25-year, 24-hour frequency storm or the storm specified in Title 12-7-1 of the Official Code of Georgia Annotated. Channels shall be designed to be on stable grades or protected with structures or linings for stability.

Water breaks or bars may be used to control surface runoff on low-intensity use roads.

Stabilization

Geotextile should be applied to the roadbed for additional stability. Geotextile selection shall be based on AASHTO M288-06 specification:

1. For subgrades with a CBR greater than or equal to 3 or shear strength greater than 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 7.3, *Separation Requirements*.
2. For subgrades with a CBR between 1 and 3 or sheer strength between 30 and 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 8, *Geotextile Property Requirements*.

A 6-inch course of coarse aggregate shall be applied immediately after grading or the completion of utility installation within the right-of-way. In areas experiencing "heavy duty" traffic situations, stone should be placed at an 8 to 10 inch depth to avoid excessive dissipation or maintenance needs.

All roadside ditches, cuts, fills, and disturbed areas adjacent to parking areas and roads shall be stabilized with appropriate temporary or permanent vegetation according to specification in **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)** and **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**.

PERMANENT ROADS AND PARKING AREAS

Permanent roads and parking areas shall be designed and constructed according to criteria established by the Georgia Department of Transportation or local authority. Permanent roads and parking areas shall be stabilized in accordance with this specification, applying an initial base course of gravel immediately following grading.

CONSTRUCTION SPECIFICATIONS

1. Trees, stumps, roots, brush, weeds, and other objectionable materials shall be removed from the work area.
2. Unsuitable material shall be removed from the roadbed and parking areas.
3. Grading, subgrade preparation, and compaction shall be done as needed. Fill material shall be deposited in layers not to exceed 9 inches and compacted with the controlled movement of compacting and earth moving equipment.
4. The roadbed and parking area shall be graded to the required elevation. Subgrade preparation and placement of the surface course shall be in accordance with sound highway construction practice.
5. Structures such as culverts, pipe drops, or bridges shall be installed to the lines and grades shown on the plans or as staked in the field. Pipe conduits shall be placed on a firm foundation. Selected backfill material shall be placed around the conduit in layers not to exceed 6 inches. Each layer shall be properly compacted.
6. Roads shall be planned and laid out according to good landscape management principles.

MAINTENANCE

Roads and parking areas may require a periodic top dressing of gravel to maintain the gravel depth at 6 inches. Vegetated areas should be checked periodically to ensure a good stand of vegetation is maintained. Remove any silt or other debris causing clogging of roadside ditches or other drainage structure.

Cr **CONSTRUCTION ROAD** (NOT TO SCALE) 08 / 56-0004

CASE NUMBER : 2020-00316

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

11/20/2020		
08/26/2021		

ESPC DETAILS

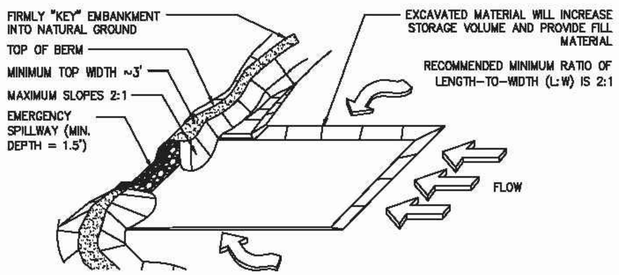
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0008
CORRECTED:		DATE:		
VERIFIED:		DATE:		

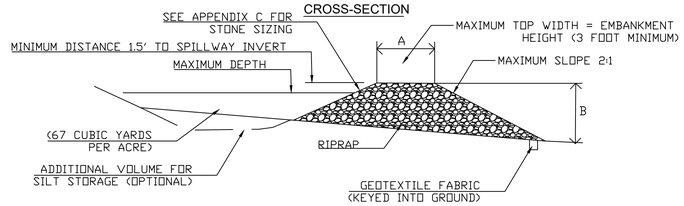
TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

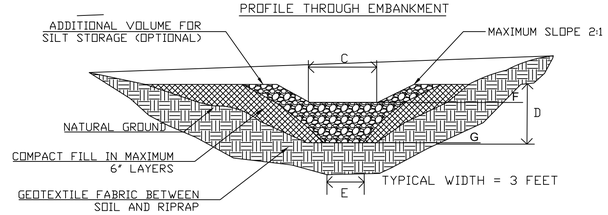
ROCK OUTLET



CROSS-SECTION



PROFILE THROUGH EMBANKMENT



		SD-4-C #1	SD-4-C #2
A	TOP OF BERM	3'	3'
B	HEIGHT FROM BACK	3'	3'
C	ROCK FILTER DAM WIDTH	20'	25'
D	ROCK FILTER DAM HEIGHT	3'	3'
E	BOTTOM WIDTH	3'	3'
F	SPILLWAY ELEV.	993.5	988.5
G	BOTTOM OF STONE ELEV.	992.0	987.0

riprap stone sizes and filter bedding stone sizes.

N.S.A. Graded riprap stone sizes are shown in Table C-1.

N.S.A. Filter bedding stone sizes are shown in Table C-1 and C-2.

D.O.T. Graded riprap stone sizes are shown in Table C-3.

D.O.T. Filter bedding stone sizes are shown in Table C-4.

Data for stone center waterways are shown in Table C-5 and Figure C-3.

Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft./sec.)	N.S.A. No.[1]	Size Inches (Sq. Opening) Max.	Avg.[2]	Min.	Filter Stone N.S.A. No.[1]
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

[1] National Stone Association

[2] At least 50% of the individual stone particles must be equal or larger than this listed size

STONE SIZE USED FOR SD-4 1 SPILLWAY AND ALL THE WAY DOWN OUTFALL

STONE SIZE USED FOR SD-4 2 SPILLWAY AND ALL THE WAY DOWN OUTFALL

SD4 **TEMPORARY SEDIMENT TRAP** (NOT TO SCALE) 01 / 54-0001

CASE NUMBER : 2020-00316

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REVISION DATES		
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ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

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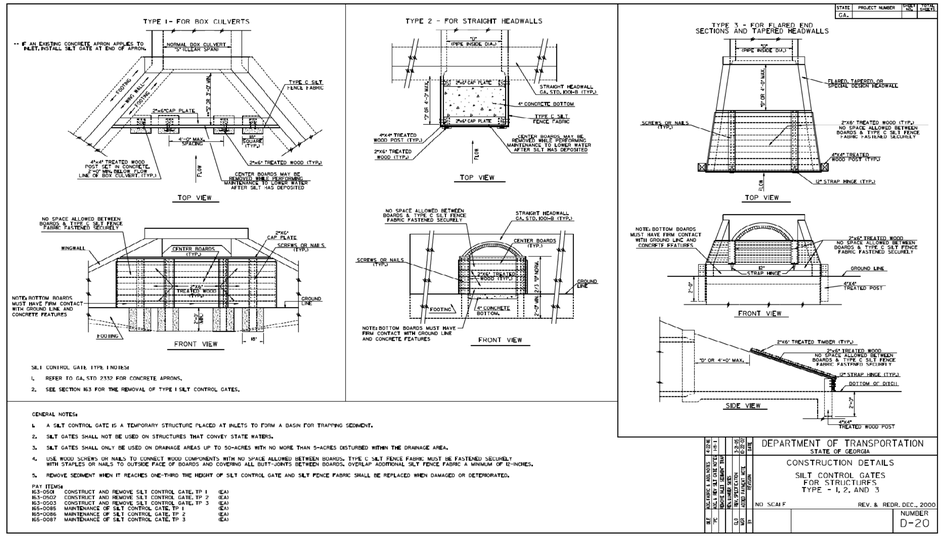
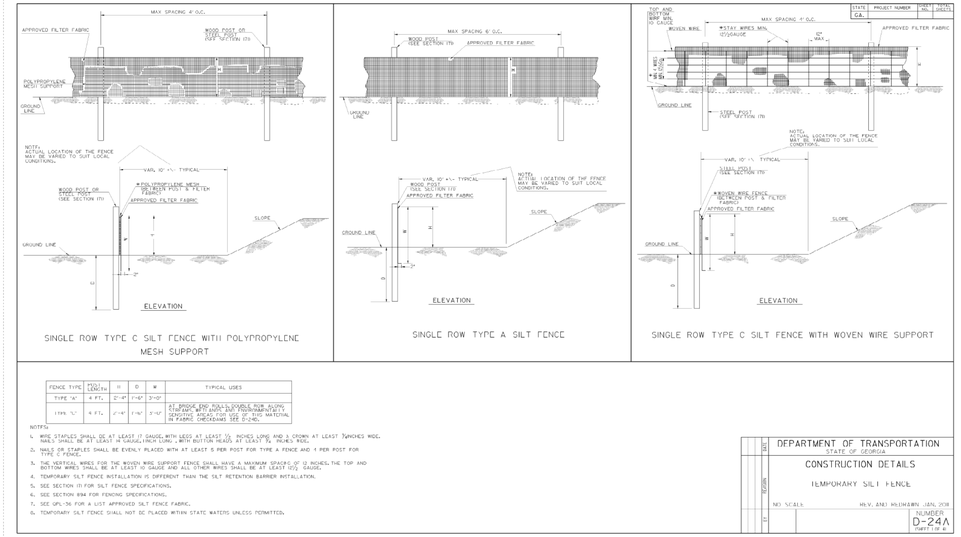
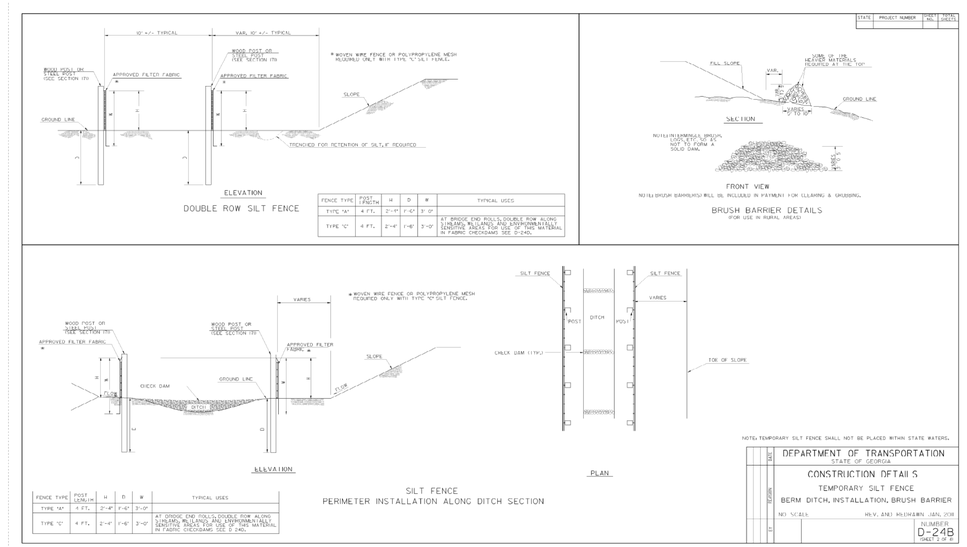
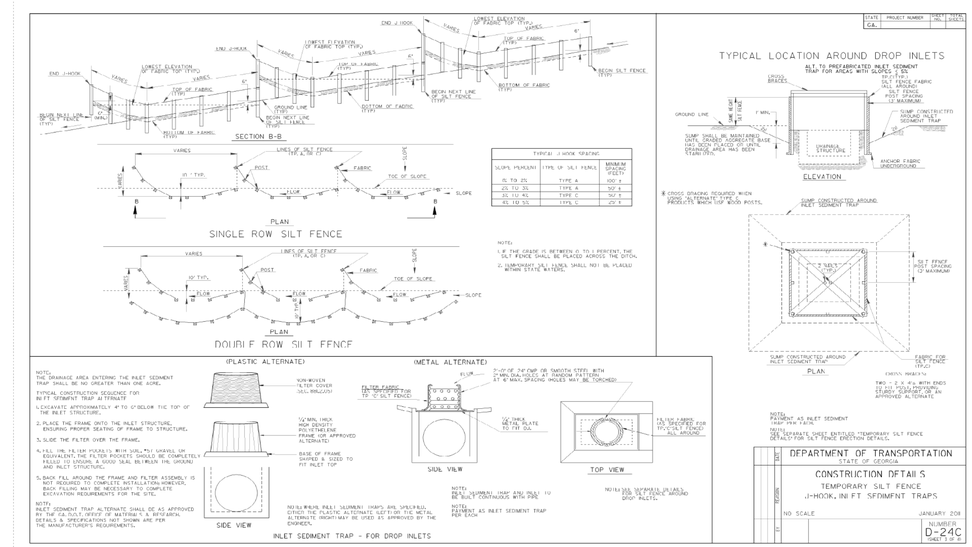
BACKCHECKED:		DATE:		56-0009
CORRECTED:		DATE:		
VERIFIED:		DATE:		









CASE NUMBER : 2020-00316

10/23/2015 GPLN

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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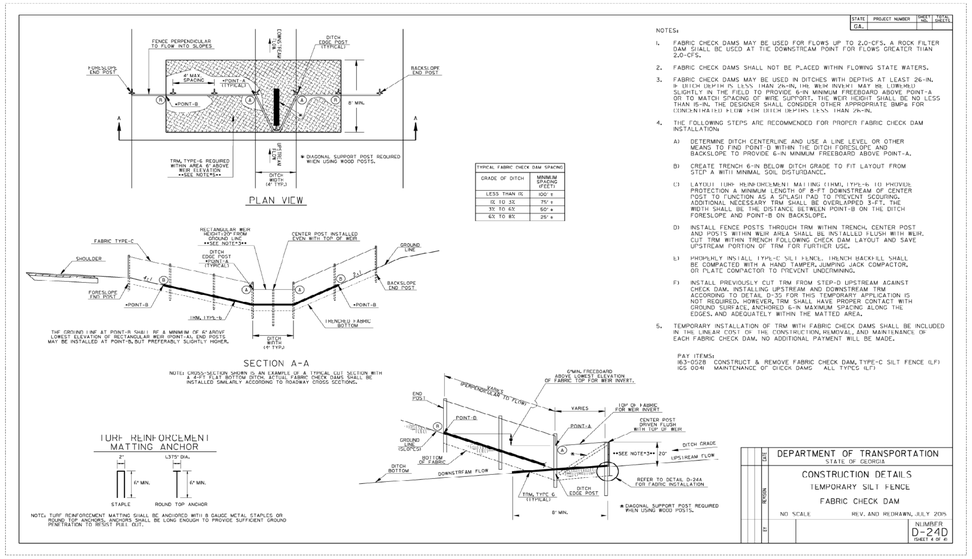
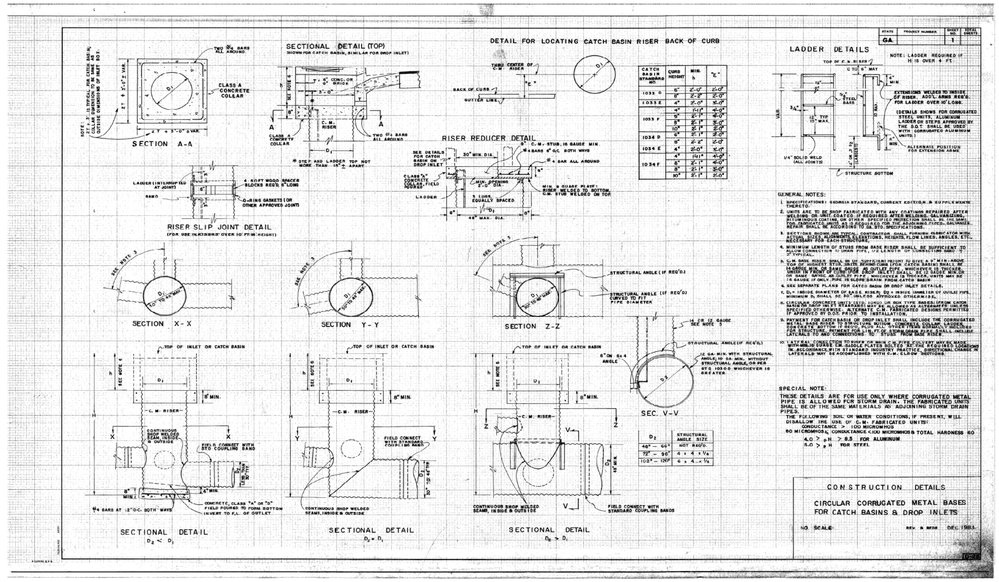


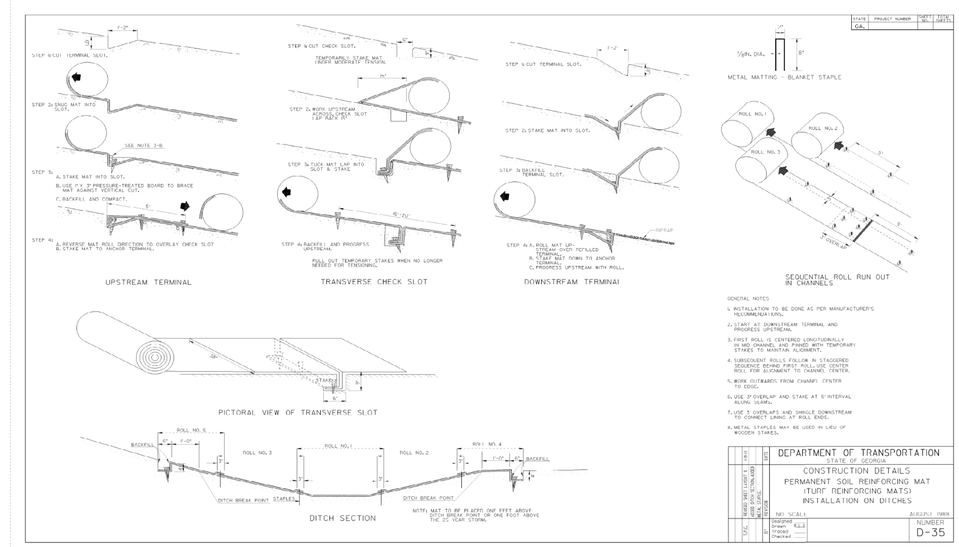
NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. & DITCH DEPTH IN LESS THAN 26-IN. THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORTS. THE WEIR HEIGHT SHALL BE NO LESS THAN 16-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR DITCHES WITH FLOW DEPTH LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
   - A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-D WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
   - B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP A WITH MINIMAL SOIL DISTURBANCE.
   - C) LAYOUT TURF REINFORCEMENT MATTING (TRM) TYPE-B TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A "SPLASH PAD" TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
   - D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
   - E) THOROUGHLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
   - F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D. UPSTREAM AGAINST FENCE AND SECURE WITH STAPLES. DOWNSTREAM TRM ACCORDING TO DETAIL D-25 FOR TWO TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTIONAL REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0128 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
163-0241 MAINTENANCE OF CHECK DAMS ALL TYPES (LF)

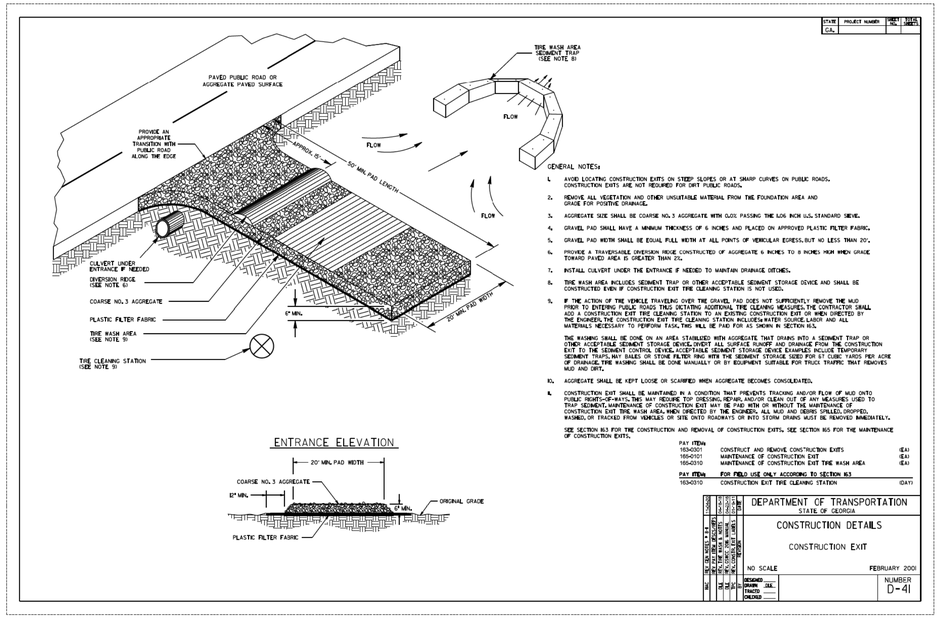
TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±





GENERAL NOTES

1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
3. FIRST ROLL IS CENTERED LONGITUDINALLY IN NO CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL-USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
6. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAM.
7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH OVER PASSING THE ONE INCH (1.0) STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROAD THEN DEMANDING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM THIS, THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE, DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 57 CUBIC YARDS PER ACRE OF DRAINAGE. THE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC ROADS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA, WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OF SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEMS		
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	(EA)
PAY ITEMS	**FOR FIELD USE ONLY ACCORDING TO SECTION 163**	
163-0210	CONSTRUCTION EXIT TIRE CLEANING STATION	(DAY)

CASE NUMBER : 2020-00316

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REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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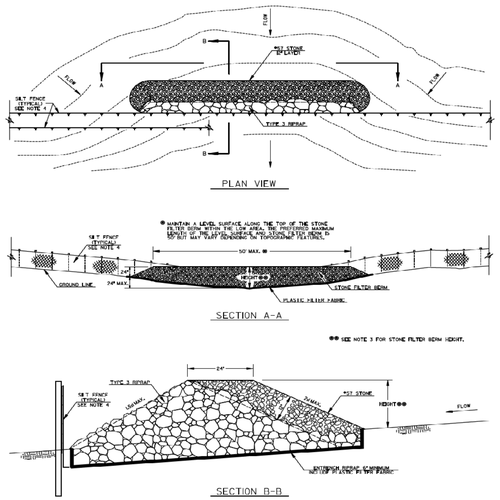


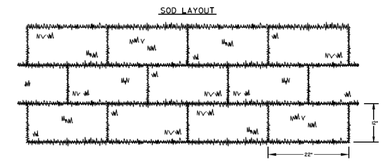
GENERAL NOTES:

1. A STONE FILTER BERM IS AN ADDITIONAL PERIMETER CONTROL BMP WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA.THERE IS NO WELL-DEFINED CHANNEL FOR A ROCK FILTER DAM AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
2. SEDIMENT STORED BY A STONE FILTER BERM IS CONSIDERED PRE-TREATMENT FOR THE PERIMETER SILT FENCE AND SHALL NOT BE CALCULATED AS ADDITIONAL SEDIMENT STORAGE IN THE SEDIMENT STORAGE TABLE PROVIDED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP). CONVENTIONAL OR APPROVED ALTERNATIVE/EQUIVALENT BMPs MUST BE USED TO STORE SEDIMENT UPSTREAM AND/OR DOWNSTREAM OF A STONE FILTER BERM.

   A ROCK OUTLET TEMPORARY SEDIMENT TRAP SHALL BE EVALUATED PRIOR TO CONSIDERING A STONE FILTER BERM. REFER TO DETAIL D-53 FOR A ROCK OUTLET TEMPORARY SEDIMENT TRAP.
3. THE HEIGHT OF THE STONE FILTER BERM SHALL BE 24 INCHES AT THE ENDS AND NOT MORE THAN 48 INCHES ABOVE THE LOWEST POINT OF THE GROUND LINE.
4. REFER TO THE ESPCP FOR THE LOCATION OF PERIMETER SILT FENCE AND STONE FILTER BERMS. REFER TO DETAIL D-24 FOR THE INSTALLATION OF PERIMETER SILT FENCE. SILT FENCE WILL BE PAID FOR SEPARATELY.
5. SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF STONE FILTER BERMS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF STONE FILTER BERMS.
6. STONE FILTER BERMS SHALL NOT BE PLACED ACROSS FLOWING STREAMS.

PAY ITEMS:
163-0243 CONSTRUCT & REMOVE STONE FILTER BERM (LF)
165-0112 MAINTENANCE OF STONE FILTER BERM (LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
STONE FILTER BERM
NO SCALE JANUARY 2016
D-50

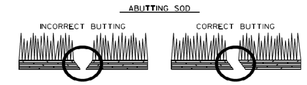


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 3" WIDE BY 52" LONG ROLLS.

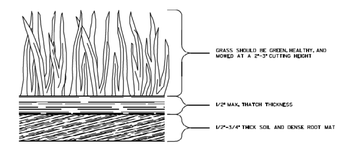
GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO.SOD SHALL BE CUT INTO SPRIGS, BLOCKS OR SPRADS, ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 3H:1V AND OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 1"LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

ABUTTING SOD

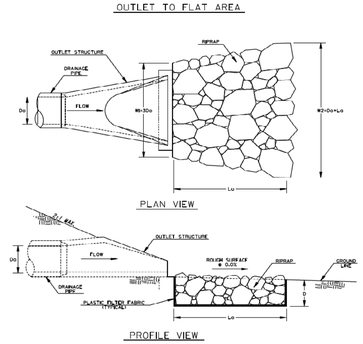


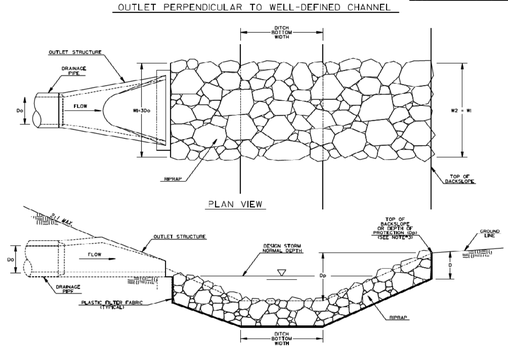
SOD APPEARANCE



PAY ITEM
700-5300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
SOD INSTALLATION
NO SCALE 4-22-2016
NUMBER D-54





GENERAL NOTES:

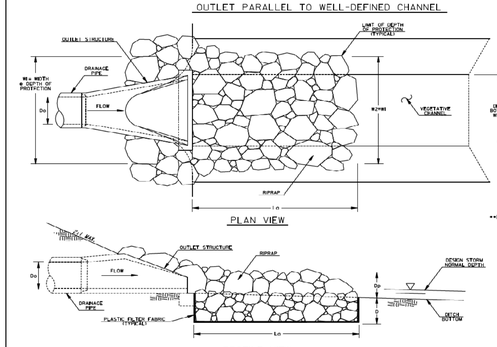
1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 800, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". DESIGN VARIABLES INCLUDE: PIPE DIAMETER (Do), DESIGN STORM FLOW RATE (Q), FLOW VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (Lo), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

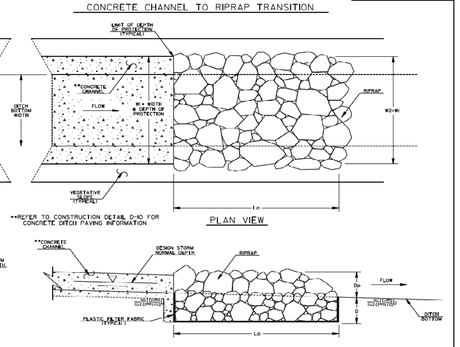
   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Do) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d50>=0.70 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>=1.20 FEET, TYPE-4 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
W1 = APRON WIDTH AT DRAINAGE STRUCTURE
W1 = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Do = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	41.20	36
3	40.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
RIPRAP OUTLET PROTECTION
(SHEET 1 OF 2)
NO SCALE 4-22-2016
NUMBER D-55A





GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 800, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". DESIGN VARIABLES INCLUDE: PIPE DIAMETER (Do), DESIGN STORM FLOW RATE (Q), FLOW VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (Lo), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Do) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d50>=0.70 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>=1.20 FEET, TYPE-4 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
Lo = APRON LENGTH
W1 = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Do = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	41.20	36
3	40.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
RIPRAP OUTLET PROTECTION
(SHEET 2 OF 2)
NO SCALE 4-22-2016
NUMBER D-55B

CASE NUMBER : 2020-00316

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0012
CORRECTED:		DATE:		
VERIFIED:		DATE:		

Retrofitting (Rt)

DEFINITION

A device or structure placed in front of a permanent stormwater detention pond outlet or roadway drainage structure to serve as a temporary sediment filter.

PURPOSE

Allows permanent stormwater detention basin structures to function as temporary sediment retention basins for land-disturbing projects, and allow roadway drainage to be used for temporary sediment storage.

CONDITIONS

This standard applies under the following conditions:

1. **Shall not be used in basins on live streams** or in basins with a total contributing drainage area of 100 acres or more.
2. Shall only be used in basins large enough to store 67 cubic yards of sediment per acre of disturbed area in the project.
3. Shall be considered a temporary structure and will be removed as soon as project is permanently stabilized. All accumulated sediment shall be removed, and the pond or basin shall be brought to final grade (if possible), prior to the removal of the retrofit.

DESIGN CRITERIA

1. The height of the retrofit should be approximately one-half the height of the structure.
2. **A retrofitted dention pond must be capable of storing the required volume of sediment in addition to the required stormwater volume.** The required sediment storage volume shall be achieved by either excavating the basin or raising the outlet structure's invert to achieve 67 cubic yards per acre of sediment storage. Remove sediment when one-third of the sediment storage capacity, not total pond capacity, is lost to sediment accumulation. This volume shall be marked on the riser or by setting a marked post near the riser.
3. For effective trapping efficiency, the sediment delivery inlets should be at the upper end of the basin.
4. For effective trapping efficiency, the length-width ratio of the basin shall be at least 2:1. If the length-width ratio is not at least 2:1, the flow length shall be increased with the use of baffles installed within the basin.

CONSTRUCTION SPECIFICATIONS

The following types of structures are acceptable under the designated conditions:

Perforated Half-Round Pipe with Stone Filter (Rt-P)
(See Figure 6-26.1)

a. Should be used only in detention ponds with less than 30 acre total drainage area.
b. Never to be used on exposed pipe end or winged headwall.
c. Diameter of half-round pipe should be 1.5 times the diameter of the principal pipe outlet or wider than the greatest width of the concrete weir.
d. Perforations and stone sizes are shown in Figure 6-26.1.
e. Shall be affixed by specified means (bolts, etc) to concrete outlet structure.

Slotted Board Dam with Stone or Filter Fabric (Rt-B)
(See Figure 6-26.3)

a. Can be used in detention ponds with drainage areas up to 100 acres, and on roadway-drainage structures with drainage areas less than 30 acres.
b. Can be used with open end pipe outlets, winged headwalls, or concrete weir outlets.
c. Should be installed with minimum size 4x4 inch posts.
d. Boards should have 0.5-1.0 inch space between them.
e. Minimum size 3-4 inch stone filter or approved filter fabric shall be installed around the upstream side of the board dam.

Example of Slotted Board Dam

Silt Control Gate (Rt-Sg)
(See figure 6-26.3, 6-26.4, 6-26.5)

The silt control gate may be used for temporary sediment storage on linear construction projects including roadway construction or maintenance, and utility line installation. The following specifications shall apply:

a. Shall only be used on roadway drainage structures with the following inlets: winged headwalls, tapered headwalls, straight headwalls, open end pipes, or flared end sections.
b. Drainage area to the silt control gate shall not exceed 50 acres, and the disturbed area of the basin shall not exceed 5 acres.
c. Post shall be 4"x4" treated lumber, and face boards shall be 2"x6" treated lumber with no spacing allowed between the boards.
d. An approved silt fence fabric shall be securely fastened to the front of the structure using staples or nails.
e. Sediment shall be removed and properly disposed of when it reaches one-third the height of the silt gate. Filter fabric shall be replaced when damaged or deteriorated.
f. Silt control gates should not be used as perimeter control alone, but instead be part of a treatment train that allows the drainage structure to discharge through another barrier before leaving the project.

All disturbed areas shall be vegetated immediately after construction with permanent vegetation. Refer to **Ds3** and **Ds4 - Disturbed Area Stabilization (With Permanent Vegetation)** and **Disturbed Area Stabilization (With Sodding)** and **Ss- Slope Stablization.**

MAINTENANCE

Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been lost. *Structures are temporary and shall be removed when disturbed areas have been permanently stabilized.*

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations

1. Required stormwater storage = 21,683 cy @ 982.48 for 25-year storm event (as determined by local ordinance)
2. Required sediment storage = 411.38 cy (67 cy/ac * 6.14 ac disturbed area)
3. Total required storage = (1) + (2) = (3) cy 22,094.38
4. Available storage = (4) cy 31,597.55 @ 982.48
5. Is the available storage (4) greater than the total required storage (3)?
   ✓ yes ____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   ____ Raise the invert of the outlet structure ____ inches
   ____ Undercut the pond ____ feet
   ____ Other ____
7. Clean-out elevation = 1 ft (Elevation corresponding to 22 cy/ac * 6.14 ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
   ✓ yes ____ no
9. If "no", the length of flow must be increased. Choose the method to be used:
   ____ Baffles (Type of baffle ____)
   ____ Other ____

Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = NA inches Height = NA feet

Top of Baffle Box @ Elev: 977.11

Filter Ring (Fr)

DEFINITION

A temporary stone barrier constructed at storm drain inlets and pond outlets.

PURPOSE

This structure reduces flow velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed area.

CONDITIONS

Filter rings shall be used in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate (such as inlets to concrete flumes). They can be installed at or around devices such as inlet sediment traps, temporary downdrain inlets, and detention pond retrofits to provide additional sediment filtering capacity.

DESIGN CRITERIA

Formal design is not required. The following standards shall be used:

Location

The filter ring shall surround all sides of the structure receiving runoff from disturbed areas. It should be placed a minimum of four feet from the structure. The ring is not intended to substantially impound water, causing flooding or damage to adjacent areas.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit structure, it should be a minimum of 8 to 10 feet from the retrofit.

Stone Size

When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-5 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-15 inches (50 - 100 lbs.).

The larger stone can be faced with smaller filter stone on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring higher maintenance.

Height

The filter ring shall be constructed at a height no less than two feet from grade.

CONSTRUCTION SPECIFICATIONS

Mechanical or hand placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications.

The filter ring may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill.

A common failure of a filter ring is caused by placing it too close to or too high above the structure it is enhancing. When utilized below a storm drain outlet, it shall be placed such that it does not create a condition causing water to back-up into the storm drain and inhibit the function of the storm drain system.

MAINTENANCE

The filter ring must be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-half full. Structures are temporary and should be removed when the land-disturbing project has been stabilized.

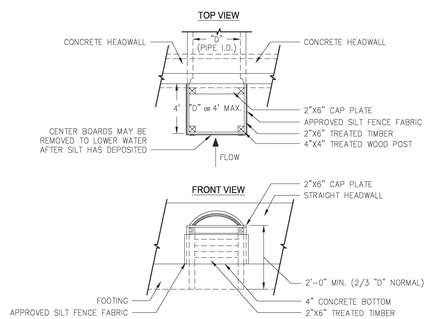
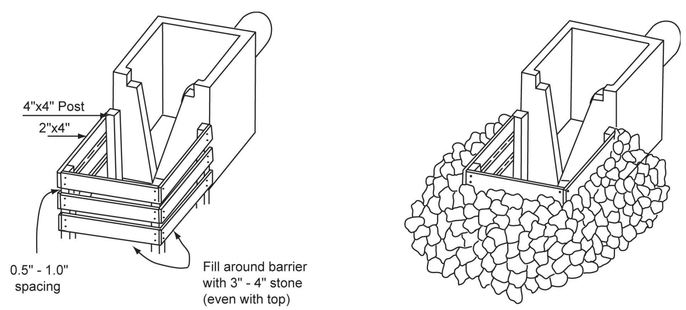


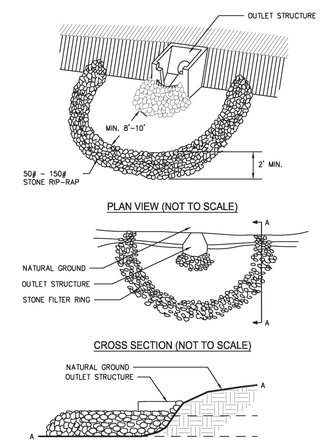
Figure 6-26.3 Slotted Board Dam with Stone or Filter Fabric



SLOTTED BOARD DAM WITH STONE FILTER

Figure 6-19.3

Rt-B **RETRO FIT** (NOT TO SCALE) 01 54-0001-54-0002



STONE FILTER RING

PERSPECTIVE VIEW

PLAN VIEW (NOT TO SCALE)

CROSS SECTION (NOT TO SCALE)

Figure 6-20.1

Fr **FILTER RING** (NOT TO SCALE) 02 54-0003

CASE NUMBER : 2020-00316

REGISTERED No. 21371 PROFESSIONAL ENGINEER GEORGE N. KARLINES 8/26/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
05/14/2021		
06/30/2021		
08/26/2021		

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0013
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GWINNETT COUNTY
LAND DISTURBANCE PERMIT
SET 12-17-2020

ATLANTA-REGION TRANSIT LINK AUTHORITY

STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED

SUGARLOAF PARK-N-RIDE LOT

GWINNETT COUNTY

FEDERAL GRANT # GA-2018-024

SITE PLAN REVIEW PROJECT NUMBER XXX

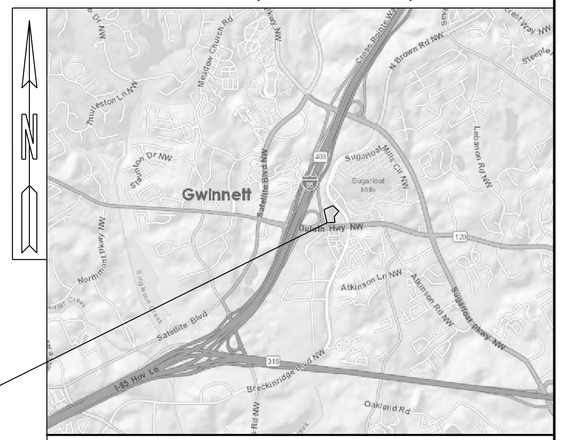
ATL PROJECT

FEDERAL ROUTE # N/A

STATE ROUTE # N/A

THIS PROJECT IS LOCATED IN LAND LOTS 80 & 81, GWINNETT COUNTY, GEORGIA.

PROJECT LOCATION



LOCATION SKETCH (N.T.S.)

KEEP ON JOB SITE
APPROVED PLAN SET MUST BE AVAILABLE FOR GWINNETT COUNTY
NO PLANS
NO INSPECTIONS

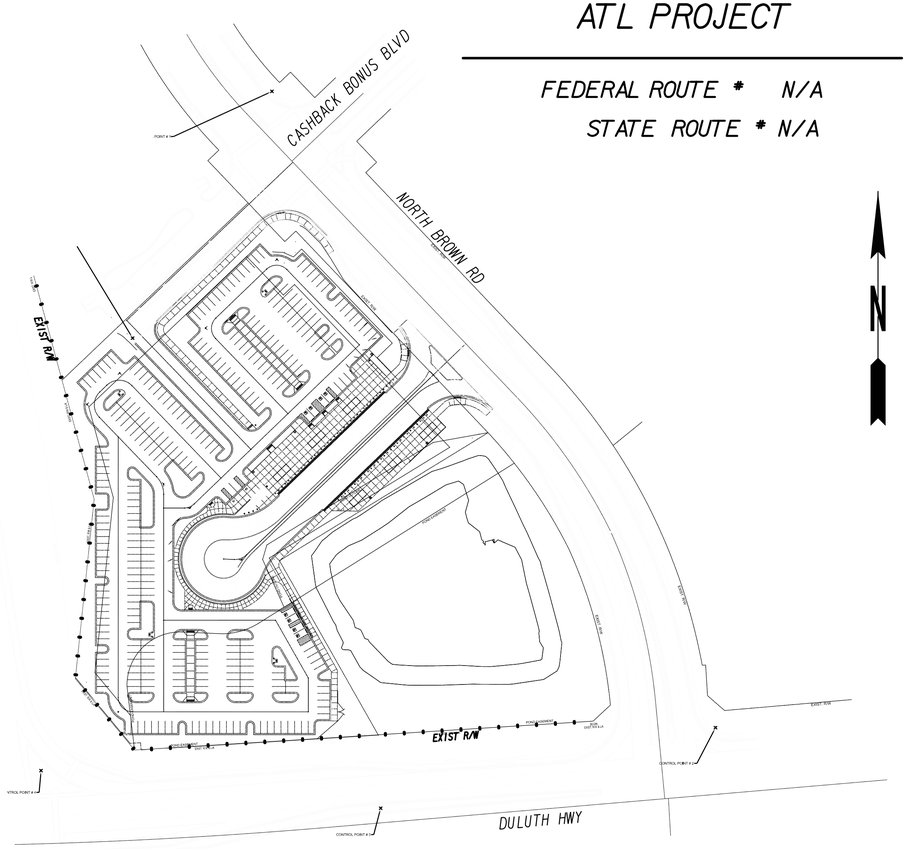
GWINNETT COUNTY
APPROVAL STAMP BOX

ALL REQUIREMENTS OF THE GWINNETT COUNTY UNIFIED DEVELOPMENT ORDINANCE (UDO) RELATIVE TO THE PREPARATION AND SUBMISSION OF A DEVELOPMENT PERMIT APPLICATION HAVING BEEN FULFILLED, AND SAID APPLICATION AND ALL SUPPORTING PLANS AND DATA HAVING BEEN REVIEWED AND APPROVED BY ALL AFFECTED COUNTY DEPARTMENTS AS REQUIRED UNDER THEIR RESPECTIVE AND APPLICABLE REGULATIONS. APPROVAL OF THIS SITE PLAN IS HEREBY GRANTED AND ALL OTHER DEVELOPMENT PLANS ASSOCIATED WITH THIS PROJECT SHALL BE SUBJECT TO ALL FURTHER PROVISIONS OF SAID UDO.

12-17-2020

DIRECTOR — DATE
DEPARTMENT OF PLANNING AND DEVELOPMENT

THIS CERTIFICATE EXPIRES TWELVE MONTHS FROM THE DATE OF APPROVAL UNLESS A DEVELOPMENT PERMIT IS ISSUED.



RECOMMENDED FOR APPROVAL:

Sam Samu, P.E. - Transportation Engineer

APPROVED FOR SUBMISSION BY:

Annie Gillespie, P.E. - Chief Engineer, SRTA

REGISTERED PROFESSIONAL ENGINEER
No. 21371
11/20/2020
GEORGE N. KAKUNES

PREPARED BY:

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc.
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration date 06/30/2022

DESIGN

PLANS COMPLETED	- -
REVISIONS	

LOCATION & DESIGN APPROVAL DATE: N/A

FUNCTIONAL CLASS: N/A

THIS PROJECT IS 100% IN GWINNETT COUNTY AND IS 100% IN CONG. DIST. NO. 007 .

PROJECT DESIGNATION: EXEMPT

DESIGNED IN ENGLISH UNITS.

24 HOUR CONTACT:
SAM SAMU
(404)-893-6176
ssamu@srta.ga.gov

TOTAL SITE AREA = 5.49 ACRES
DISTURBED AREA = 5.73 ACRES

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.

LENGTH OF PROJECT	COUNTY No.135 Project No. 2018-135-01
	MILES
NET LENGTH OF ROADWAY	N/A
NET LENGTH OF BRIDGES	N/A
NET LENGTH OF PROJECT	N/A
NET LENGTH OF EXCEPTIONS	N/A
GROSS LENGTH OF PROJECT	N/A

PARKING SPACE TYPE	QTY
REGULAR	302
HANDICAP	8
EV CHARGER	4
KISS & RIDE	4
TOTAL	318

SCALE IN FEET
0 100 200 400

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

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

DRAWING No.
01-0001

SHT. NO.	DWG. NO.	DESCRIPTION
		CONSTRUCTION PLANS
	01-0001	COVER SHEET
	02-0001 - 02-0002	INDEX OF DRAWINGS
*	03-0001	REVISION SUMMARY
	04-0001 - 04-0002	GENERAL NOTES
	05-0001	TYPICAL SECTIONS
	06-0001 - 06-0005	SUMMARY QUANTITIES
	07-0001	QUANTITIES (AMENDMENT)
	08-0001	QUANTITIES (CONSTRUCTION)
	11-0000 - 11-0002	CONSTRUCTION LAYOUT
	11-0003 - 11-0004	CONSTRUCTION LAYOUT ENLARGED BUS WAY AND PLAZA AREA
	12-0000 - 12-0002	EXISTING CONDITIONS AND DEMOLITION PLAN
	16-0001	BUS WAY PLAN AND PROFILE
	16-0002	ACCESS DRIVE PLAN AND PROFILE
	18-0000 - 18-0002	GRADING AND DRAINAGE PLAN
	18-0003 - 18-0004	GRADING AND DRAINAGE ENLARGED BUS WAY AND PLAZA PLAN
	22-0001 - 22-0003	DRAINAGE PROFILES AND DRAINAGE PIPE CHART
	22-0004	SANITARY SEWER PROFILES
	23-0000 - 23-0007	SITE CROSS SECTIONS
	24-0000 - 24-0002	UTILITY PLAN
	25-0000	OVERALL LIGHTING PLAN
*	25-0001 - 25-0002	LIGHTING PLAN
*	25-0003	ENLARGED BUS SHELTER AREA CCTV POWER PLAN
*	25-0004	ENLARGED ENTRANCE PARTIAL PLAN
*	25-0005	LIGHTING DETAILS, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE
*	25-0006	PANEL SCHEDULE AND POWER DIAGRAM
*	25-1000	OVERALL LIGHTING PHOTOMETRIC PLAN
*	25-1001 - 25-1002	LIGHTING PHOTOMETRIC PLAN
*	25-1003	LIGHTING PHOTOMETRIC SCHEDULE, STATS, LOCATION AND NOTES
	26-0000 - 26-0002	SIGNING AND MARKING PLAN
	26-0003	SIGNING AND MARKING DETAILS
*	28-0003	OVERALL CCTV CAMERA AND ECB PLACEMENT
*	28-0004	OVERALL CCTV CAMERA PLACEMENT AND VIEW DIRECTION
*	28-0005	OVERALL CCTV CAMERA PLACEMENT AND VIEW ANGLE
*	28-0006	PLAZA AREA CCTV CAMERA, CMS AND ECB PLACEMENT
*	28-0007	CCTV SYSTEM CABLE PLAN
*	28-0008	CCTV POLE MOUNTED CAMERAS DETAIL
*	28-0009	BUS SHELTERS 1-3 CCTV CAMERA AND CMS LOCATIONS
*	28-0010	BUS SHELTERS 4-5 CCTV CAMERA AND CMS LOCATIONS
*	28-0011	CCTV CAMERA INTERFACE BOX (CIB) (BY OTHERS)
*	28-0012	MESSAGE SIGN INTERFACE BOX (FIB) (BY OTHERS)
*	28-0013	CCTV LOCAL AREA NETWORK EQUIPMENT ROOM
	29-0000	OVERALL LANDSCAPE PLAN
	29-0001 - 29-0002	ENLARGEMENT LANDSCAPE PLAN
	29-0003	BUS PLAZA AREA ENLARGEMENT LANDSCAPE PLAN
	29-0004	LANDSCAPE DETAILS
	29-0005	LANDSCAPE SCHEDULE
	29-0006	LANDSCAPE NOTES
	29-0007- 29-0008	SITE FURNISHING DETAILS
	31-0001	RETAINING WALL NO. 1 PLAN AND PROFILE
	31-0002	RETAINING WALL NO. 2 PLAN AND PROFILE
	31-0003	RETAINING WALL NO. 3 PLAN AND PROFILE
		SPECIAL CONSTRUCTION DETAILS
*	37-1100	OVERALL SITE PLAN
*	37-1101	ENLARGED SITE AT BUILDINGS
*	37-1102	BUS SHELTER FLOOR PLAN, REF. CLG PLAN AND ROOF PLAN
*	37-1103	BUS SHELTER ELEVATIONS
*	37-1104	BUS SHELTER SECTIONS

SHT. NO.	DWG. NO.	DESCRIPTION
		SPECIAL CONSTRUCTION DETAILS
*	37-1105	STORAGE ROOM FLOOR PLAN, REF. CLG PLAN AND ROOF PLAN
*	37-1106	STORAGE ROOM ELEVATIONS
*	37-1107	STORAGE ROOM SECTIONS
*	37-1108	BUS SHELTER VIEWS
*	37-1109	STORAGE ROOM VIEWS
*	37-2000	GENERAL STRUCTURAL NOTES
*	37-2001	BUS SHELTER FOUNDATION PLAN
*	37-2002	STORAGE BUILDING FOUNDATION PLAN
*	37-2003	BUS SHELTER ROOF PLAN
*	37-2004	STORAGE BUILDING ROOF PLAN
*	37-2005	BUS SHELTER ELEVATIONS
*	37-2006	SECTION OF BUS SHELTER BUILDING
*	37-2007	TYPICAL DETAILS
*	37-2008	STEEL DETAILS
*	37-3001	MECHANICAL SCHEDULE AND NOTES
*	37-3101	MECHANICAL FLOOR PLAN LEGEND AND NOTES
*	37-3501	MECHANICAL DETAILS
*	37-4000	ENLARGED MAINTENANCE BUILDING ELECTRICAL EQUIPMENT PLAN
*	37-4001	MAINTENANCE BUILDING AND BUS SHELTER ELECTRICAL PLANS
	38-0001 - 38-0005	CONSTRUCTION DETAILS - CIVIL DETAILS
		GEORGIA DOT CONSTRUCTION DETAILS - SERIES 40
*	40-0001	A-3 CONCRETE SIDEWALK DETAILS, CURB CUT (WHEELCHAIR) RAMPS 9/16
*	40-0001	A-4 DETECTABLE WARNING SURFACE, TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS 6/09
*	40-0001	F-1 WOVEN WIRE FENCE 9/76
*	40-0001	F-2 GATE DETAILS FOR CHAIN LINK AND WOVEN FENCE 01/88
*	40-0002	ITS-07 ATM DETAILS CONDUIT AND CONDUIT DUCT BANK TYPE 3 INSTALLATION DETAILS 10/06
*	40-0002	ITS-08 ATM DETAILS UNDER BRIDGE CONDUIT DUCT BANK INSTALLATION DETAILS 12/06
*	40-0002	P-7 PAVEMENT EDGE TREATMENT ASHPALT AND CONCRETE PAVEMENT 11/11
*	40-0002	PRW-1 PARAPET RETAINING WALL TYPES P1, P2 AND P3 12/17
*	40-0003	T-1 SIGN PLATES 1/00
*	40-0003	T-2 DETAILS FOR TYPICAL FRAMING 3/00
*	40-0003	T-3A TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL 7/02
*	40-0003	T-11A DETAIL OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY 9/16
*	40-0004	T-12A DETAILS OF PAVEMENT MARKING - ARROW LOCATION 1/00
*	40-0004	T-12B DETAILS OF PAVEMENT MARKING - ARROWS 9/19
*	40-0004	T-13A DETAILS OF PAVEMENT MARKING - WORDS (SHEET 1 OF 3) 9/16
*	40-0004	T-13C DETAILS OF PAVEMENT MARKING - WORDS PLACEMENT (SHEET 3 OF 3) 9/19
*	40-0005	T-14 DETAILS OF PAVEMENT MARKING - HATCHING 11/08

* DENOTES DRAWINGS NOT INCLUDED IN THIS SUBMITTAL

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

INDEX OF DRAWINGS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 02-0001

SHT. NO.	DWG. NO.	DESCRIPTION		
		GEORGIA DOT CONSTRUCTION DETAILS - SERIES 40		
*	40-0005	T-15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY	9/16
*	40-0005	T-18	DETAILS OF HANDICAPPED PAVEMENT MARKINGS	1/00
*	40-0005	TS-02	TRAFFIC SIGNAL DETAIL PULL BOX ASSEMBLY DETAIL	4/10
*	40-0005	TS-03	TRAFFIC SIGNAL DETAIL CABINET BASE DETAIL	4/10
*	40-0006	TS-03A	TRAFFIC SIGNAL DETAIL PEDESTRIAN FACILITIES INSTALLATION DETAILS	4/10
*	40-0006	TS-04	TRAFFIC SIGNAL DETAIL DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES	4/10
*	40-0006	TS-06	TRAFFIC SIGNAL DETAIL DETAILS OF STRAIN POLE AND MAST ARM FOUNDATIONS	4/10
*	40-0007	TS-07	TRAFFIC SIGNAL DETAIL GROUNDING DETAILS FOR TRAFFIC SIGNAL STRUCTURES I	4/10
*	40-0007	TS-08	TRAFFIC SIGNAL DETAIL UTILITY CLEARANCE DETAIL	4/10
		GEORGIA DOT CONSTRUCTION STANDARDS - 41 SERIES		
*	41-0001	1001-B	PIPE CULVERT CONCRETE HEADWALL	8/99
*	41-0001	1011AP	PRECAST REINFORCED CONCRETE MANHOLE	6/75
*	41-0001	1019A	DROP INLETS (BUILT-IN-PLACE)	8/99
*	41-0001	1019A	PRECAST DROP INLETS	8/99
*	41-0002	1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 1 OF 3)(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)	9/01
*	41-0002	1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 2 OF 3)(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPES)	9/01
*	41-0002	1030D	CONCRETE AND METAL PIPE CULVERTS (SHEET 3 OF 3)(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)	9/01
*	41-0002	1033D	PRECAST CATCH BASIN (FOR 6" OR 8" HT CURB & GUTTER)	9/82
*	41-0003	1034D	PRECAST CATCH BASIN (FOR 6" OR 8" HT CURB & GUTTER)	9/82
*	41-0003	1035	DRAIN INLET (ELBOW TYPE AND ALTERNATES FOR YARD DRAINS)	9/82
*	41-0003	1120	FLARED END SECTION FOR PIPES	6/06
*	41-0003	1125	STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)	10/99
*	41-0004	4381	POST AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL - 31 INCH GUARDRAIL HEIGHT	01/16
*	41-0004	4383	GUARDRAIL ANCHOR TYPE I - 31 INCH GUARDRAIL HEIGHT	08/11
*	41-0004	4384	GUARDRAIL TERMINALS, TYPE 12A, 12B AND 12C - 31 INCH GUARDRAIL HEIGHT	01/16
*	41-0004	4385	"T" BEAM GUARDRAIL CONNECTION TO 31 INCH GUARDRAIL HEIGHT	08/11
*	41-0005	4386	GUARDRAIL LOCATION IN MEDIANS, GUARDRAIL LOCATION AT TURNOUTS - 31 INCH GUARDRAIL HEIGHT	01/16
*	41-0005	4391	GUARDRAIL LOCATION (ON ROADS WITH CURB & GUTTER, HEADER CURB OR INTREGAL CURB) - 31 INCH GUARDRAIL HEIGHT	01/16
*	41-0005	5046H	JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING	01/11
*	41-0005	9003	FEDERAL AID AND STATE PROJECT MARKERS: RIGHT OF WAY MARKERS; COUNTY LINE MARKERS	4/06
*	41-0006	9031L	GRAVITY WALL TYPICAL SECTION, RAISING HEADWALLS, AND TYPICAL PIPE PLUG	09/16
*	41-0006	9031N	CHAIN LINK WIRE FENCE	8/85
*	41-0006	9031R	PLACING ROOF DRAIN PIPE UNDER SIDEWALK-RAMP TYPE BARRICADE	10/88
			- PIPE HANDRAIL FOR RETAINING WALL, PIPE HANDRAIL FOR CONCRETE STEPS	
*	41-0006	9031S	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON	4/96
*	41-0007	9031U	JUNCTION BOXES (PRECAST OR BUILT-IN-PLACE) PIPE COLLARS, PIPE ELBOW AND PIPE CURVED ALIGNMENT	7/85
*	41-0007	9032B	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	1/11
*	41-0007	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISC. DETAILS	3/06
*	41-0007	9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY	3/06
		EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS AND DETAILS		
	50-0001	ESPCP COVER SHEET		
	51-0001 - 51-0005	ESPCP NOTES		
	52-0001 - 52-0007	EROSION CONTROL LEGEND AND UNIFORM CODES		
	53-0001	ESPCP DRAINAGE AREA MAP		
	54-0001 - 54-0003	BMP LOCATIONS		
	56-0001 - 56-0009	ESPC DETAILS		

SHT. NO.	DWG. NO.	DESCRIPTION		
		EROSION CONTROL CONSTRUCTION DETAILS - 56 SERIES		
	56-0010	D-20	SILT CONTROL GATES FOR STRUCTURES TYPE 1, 2 AND 3 - INLET SEDIMENT TRAP	4/16
	56-0010	D-24A	TEMPORARY SILT FENCE, BAILED STRAW EROSION CHECK, BRUSH BARRIER DETAILS (SHT 1 OF 4)	*
	56-0010	D-24B	TYPICAL LOCATION DETAILS FOR SILT FENCE / BAILED STRAW (SHT 2 OF 4)	*
	56-0010	D-24C	TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHT 3 OF 4)	1/11
	56-0011	D-24D	TEMPORARY SILT FENCE FABRIC CHECK DAM (SHT 4 OF 4)	7/15
	56-0011	D-28	CIRCULAR CORRUGATED METAL BASES FOR CATCH BASINS AND DROP INLET	12/83
	56-0011	D-35	PERMANENT SOIL REINFORCING MAT	1/11
	56-0011	D-41	CONSTRUCTION EXIT	4/16
	56-0012	D-50	STONE FILTER BERM	1/18
	56-0012	D-54	SOD INSTALLATION	4/16
	56-0012	D-55A	RIPRAP OUTLET PROTECTION (SHT 1 OF 2)	4/16
	56-0012	D-55B	RIPRAP OUTLET PROTECTION (SHT 2 OF 2)	4/16
	56-0013	S-7	SERRATED SLOPE DETAIL / BENCHING DETAIL	6/09

* DENOTES DRAWINGS NOT INCLUDED IN THIS SUBMITTAL

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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AUTHORIZED

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ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		02-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION OF GEORGIA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THIS WORK.

3. THE CONTRACTOR SHALL BID ON GRADING COMPLETE LUMP SUM AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL EARTHWORK QUANTITY TO BE GRADED. CLEARING AND GRUBBING ON THIS PROJECT IS LIMITED TO THE ACTUAL CONSTRUCTION LIMITS UNLESS DIRECTED BY THE ENGINEER. COST FOR CLEARING AND GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE - LUMP SUM.

4. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.

5. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GADOT STANDARD SPECIFICATIONS.

6. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS AND DESCRIPTIONS OF MONUMENTS USED.

7. WHERE WET SUBGRADE IS ENCOUNTERED AND WHERE IDENTIFIED BY THE ENGINEER, UNDERDRAIN PIPE WITH DRAINAGE AGGREGATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER TO AID IN DEWATERING THE SUBGRADE.

8. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL, HAUL AND PLACEMENT SHALL BE USED AT THE ENGINEER'S DIRECTION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER, WHEN USED FOR THIS PURPOSE, SECTION 318 OF THE GADOT STANDARD SPECIFICATIONS IS MODIFIED TO PERMIT TRUCK DUMPING ON UNPREPARED WET, MUDDY SUBGRADE. SECTION 318 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHED STONE AS DESCRIBED IN SECTION 318.02. THE CONTRACTOR WILL HAVE THE USE OF THE FOLLOWING MATERIALS:
   A. GRADED AGGREGATE, ARTICLE 815.2.01
   B. COURSE AGGREGATE, SIZE 467, ARTICLE 800.2.01
   C. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.2.01 OR 803.2.02
   D. CRUSHED STONE, ARTICLE 806.2.01

9. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC. ALL DRIVEWAYS ARE TO BE PAVED BACK TO THE TIE-IN POINT OR REQUIRED RIGHT OF WAY WHICHEVER IS GREATER. EARTH/GRAVEL DRIVEWAYS WILL BE PAVED WITH ASPHALT TO THE R/W LINE AND CONTINUED WITH AGGREGATE SURFACE COURSE TO THE TIE-IN POINT.

10. THIS PROJECT LIES WITHIN THE LIMITS OF AN INSECT INFESTED AREA. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FOLLOWING SUB-SECTIONS OR SPECIAL PROVISIONS TO THE GADOT STANDARD SPECIFICATIONS: A) SUB-SECTION 107.13D - INSECT CONTROL REGULATIONS; B) SUB-SECTION 155 - INSECT CONTROL; AND C) SUB-SECTION 893 - MISCELLANEOUS PLANTING.

11. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

12. ALL EXISTING PIPE SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. COST FOR REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

13. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE A PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING P.C.C. CONCRETE PAVEMENT.

14. WHERE EXISTING PAVEMENT MARKINGS AND LINES ARE IN CONFLICT WITH THE TRAFFIC PATTERN BEING USED ON CONSTRUCTION, THE CONTRACTOR SHALL REMOVE OR OVERLAY LINES TO THE SATISFACTION OF THE ENGINEER SUCH THAT THE LINES DO NOT CONFUSE THE TRAVELING PUBLIC. ALL REMAINING LINES OR MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, OR AS DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE ALLOWED ON ANY PAVEMENT NOT PROPERLY STRIPPED.

15. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 104.05 AND 107.07 OF THE GADOT STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

16. PRICE BID FOR TRAFFIC CONTROL- LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING AND PAVEMENT MARKINGS, BARRICADES, CHANNELIZING DEVICES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND/OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DETOUR SIGNAGE MAYBE REQUIRED IN ORDER TO CONFORM TO THE MUTCD. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL SIGNAGE NOT ILLUSTRATED ON THE DETOUR PLAN.

17. CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR. ALL COST FOR THIS ITEM WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.

18. THE CONTRACTOR IS RESPONSIBLE FOR PRE-MARKING ALL SIGNING, STRIPING, GUARDRAIL, HANDICAP RAMPS AND DRIVEWAY LAYOUTS. AFTER PRE-MARKING IS COMPLETE, THE CONTRACTOR SHALL NOTIFY GWINNETT COUNTY DOT OPERATION AND MAINTENANCE DIVISION A MINIMUM OF 72 HOURS IN ADVANCE OF INSTALLATION OF ANY PRE MARKED ITEMS FOR APPROVAL. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE PROJECT ENGINEER.

19. THE FOLLOWING UTILITY OWNERS HAVE FACILITIES WHICH MAY CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

   1. GAS
      TITO CINTRON
      ATLANTA GAS LIGHT GWINNETT
      470-218-5996

   2. COMMUNICATIONS
      ANGELO HINES
      AT&T/D TELECOMMUNICATIONS
      770-784-3972

   3. COMMUNICATIONS
      CHARTER COMMUNICATIONS TELECOM
      800-778-9140

   4. COMMUNICATIONS
      BRAD SEARS
      COMCAST TELECOMMUNICATIONS
      770-559-6052

   5. POWER
      DARRELL TIENCKEN
      GEORGIA POWER
      404-506-6539

   6. COMMUNICATIONS
      AT&T/T TELECOMMUNICATIONS
      800-241-3624

   7. WATER
      STEPHANIE SPARKS
      GWINNETT COUNTY PUBLIC
      UTILITIES WATER
      678-376-6917

   8. SEWER
      STEPHANIE SPARKS
      GWINNETT COUNTY PUBLIC
      UTILITIES SEWER
      678-376-6917

   9. COMMUNICATIONS
      GWINNETT COUNTY PUBLIC
      UTILITIES TELECOMMUNICATION
      770-822-8915

   10. TRAFFIC
      ROBERT WILLIAMS
      GWINNETT COUNTY PUBLIC
      UTILITIES TRAFFIC
      678-639-8853

   11. POWER
      JAN DOBY
      JACKSON EMC
      770-822-3249

   12. COMMUNICATIONS
      WINDSTREAM KDL, INC TELECOM
      800-289-1901

   13. COMMUNICATIONS
      WINDSTREAM DALTON TELECOM
      800-289-1901

   14. COMMUNICATIONS
      DEWAYNE BEGLEY
      ZAYO FIBER SOLUTIONS TELECOM
      470-249-5124

   15. COMMUNICATIONS
      TOWER CLOUD INC DBA
      UNITI FIBER TELECOM
      888-897-2568

   16. COMMUNICATIONS
      INTERSTATE FIBERNET (AKA
      ITC DELTA COM) TELECOM
      800-289-1901

   17. COMMUNICATIONS
      LEVEL 3 COMMUNICATIONS TELECOM
      877-366-8344 EXTN. 3

20. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON RECEIVED UTILITY OWNER MARK-UPS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION.

21. CONTRACTOR IS TO MAINTAIN PUBLIC ACCESS TO ALL BUILDINGS AND PARKING LOTS THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.

22. CONTRACTOR IS TO PROVIDE TEMPORARY WALKS, TEMPORARY SIGNS, AND/OR OTHER MEANS AS NECESSARY TO INSURE SAFETY AND UNINTERRUPTION OF FLOW OF PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

23. EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERABLE AT ALL TIMES.

24. SIGNAL, MARKING AND TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION WITH REVISIONS 1 AND 2, MAY 2012.

25. ALL ADA WHEELCHAIR RAMPS AND SIDEWALK WITHIN THE RADII SHALL BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.

26. THERE IS NO SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMIT. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

27. A NOTICE OF INTENT IS REQUIRED ON THIS PROJECT.

28. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411. FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARD SPECIFICATIONS, "COOPERATION WITH UTILITIES."

29. THIS PROJECT HAS A TOTAL OF 5.49 ACRES AND THE EXPECTED DISTURBED AREA IS 5.81 ACRES. THE TOTAL AREA IS THE AREA OF RIGHT-OF-WAY AND EASEMENTS, AND THE DISTURBED AREA IS THE CLEARING AND GRUBBING AREA.

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

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GEORGIA REGISTERED No. 030418 PROFESSIONAL ENGINEER 11/20/2020 CHARLES CHRISTOPHER KING

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1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
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REVISION DATES

GENERAL NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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30. ALL CUT AND FILL SLOPES SHALL BE GRASSED IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION. IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.

31. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVE SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH REQUIREMENT.

32. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.

33. ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. EROSION CONTROL CHECK DAMS OR FILTER RINGS SHALL BE PLACED IMMEDIATELY AFTER DRAINAGE STRUCTURES ARE IN PLACE. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE THE GADOT STANDARD SPECIFICATIONS REGARDING EROSION CONTROL AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL BY G.S.W.C.C. THE CONTRACTOR SHALL OBTAIN AND ABIDE BY ALL CORPS OF ENGINEERS RULES AND REGULATIONS CONCERNING CONSTRUCTION ADJACENT TO WATERWAYS AND MAINTAIN WATER QUALITY.

34. TYPE OF GRASS OR SOD USED ON THIS PROJECT WITHIN GWINNETT/GDOT RIGHT OF WAY WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN, I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA, ETC. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.

GDOT ENCROACHMENT PERMITTING NOTES

1. THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE, AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO PUBLIC.

2. THE FOLLOWING WILL NOT BE ALLOWED ON D.O.T. RIGHT OF WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ON THE RIGHT OF WAY , OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER; (2) HEADWALLS; (3) SIGNS, DISPLAYS, DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM; (4) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

3. ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION / DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE D.O.T. OR AN APPROVED RETENTION LETTER FROM HE UTILITY OWNER.

4. CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

5. APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO D.O.T. SPECIFICATION ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

6. THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D GUIDELINES.

7. ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSED.
NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT OF WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATIONS
1½" ----- 12.5 MM SUPERPAVE
2" ----- 19 MM SUPERPAVE
8" ----- 25 MM SUPERPAVE
12" ----- GRADED AGGREGATE BASE COURSE

GDOT ENCROACHMENT PERMITTING NOTICE

1. THIS PERMIT IS APPROVED SUBJECT TO REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.
2. NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY D.O.T. PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.
3. THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITTEE.
4. OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.
5. ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARD GDOT DETAILS.
6. THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

STORM WATER GENERAL NOTES

1. THERE IS NO FLOODPLAIN ON THIS PROJECT FROM A WATERCOURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES.
2. THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE.
3. STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED IN ADJACENT DOWNSTREAM MASTER DETENTION POND.
4. MAXIMUM SLOPE FOR CUT OR FILL IS 2H:1V.
5. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH TREE PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

PAVEMENT MARKING GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (LATEST EDITION) AND ANY APPLICABLE GWINNETT COUNTY STANDARDS.
3. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE PROVIDED PER GWINNETT DEPARTMENT OF TRANSPORTATION STANDARD DETAILS. RAISED PAVEMENT MARKERS SHALL BE TYPE III RED/CLEAR.
4. ALL 5" PAVEMENT EDGE AND CENTERLINE MARKINGS SHALL BE WET WEATHER THERMOPLASTIC AND ALL OTHER MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. PAVEMENT MARKINGS SHALL BE PER GDOT CONSTRUCTION DETAILS.
6. YELLOW EDGELINES SHALL BE USED AROUND ALL MEDIANS.
7. STANDARD SKIP PATTERN CONSIST OF A 10' SEGMENT WITH A 30' GAP. "CHICKEN" TRACKS SHALL CONSIST OF A 2' SEGMENT WITH A 6' GAP.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR PRE-MARKING ALL SIGNING, STRIPING, GUARDRAIL AND HANDICAP RAMPS. AFTER PRE-MARKING IS COMPLETE AND 72 HOURS IN ADVANCE OF INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO COORDINATE WITH GWINNETT COUNTY DEPARTMENT OF TRANSPORTATION'S OPERATIONS AND MAINTENANCE DIVISION FOR APPROVAL.

SIGN GENERAL NOTES

1. ALL SIGNS SHALL BE HIGH INTENSITY GRADE SHEETING (ON METAL) UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. ALL R1-1 (STOP) SIGNS SHALL BE 30' UNLESS OTHERWISE NOTED AND INSTALLED ON 3 LB/FT RIBBED BACK, GALVANIZED, U-CHANNEL POSTS, 12' IN LENGTH.
3. IN RESIDENTIAL AREAS SIGNS SHALL BE LOCATED ON, OR AS CLOSE AS POSSIBLE TO PROPERTY LINES.
4. ALL "KEEP RIGHT" (R4-7) SIGNS SHALL BE INSTALLED 10' FROM THE END OF MEDIAN. REFER TO MEDIAN NOSE HOLE DETAIL.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 11/20/2020 CHARLES CHRISTOPHER KING

ATKINS
Member of the SNC-Lavalin Group
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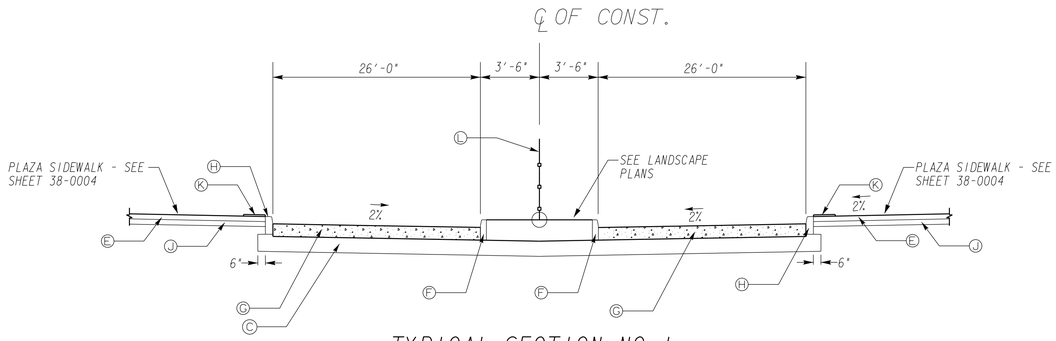
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

GENERAL NOTES

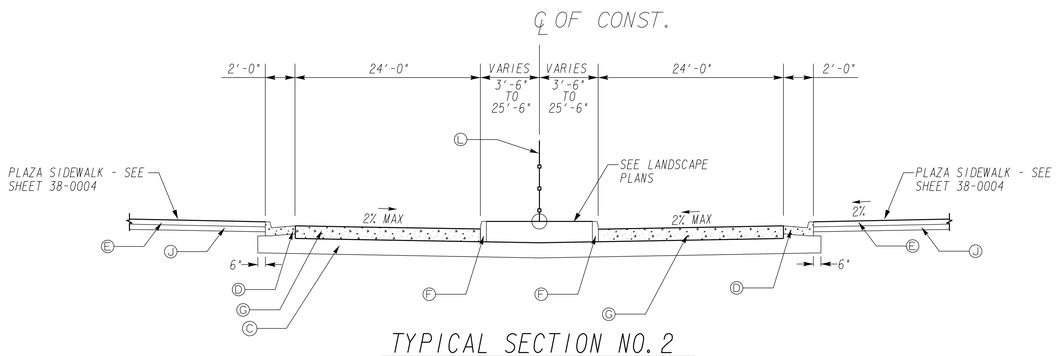
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		04-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



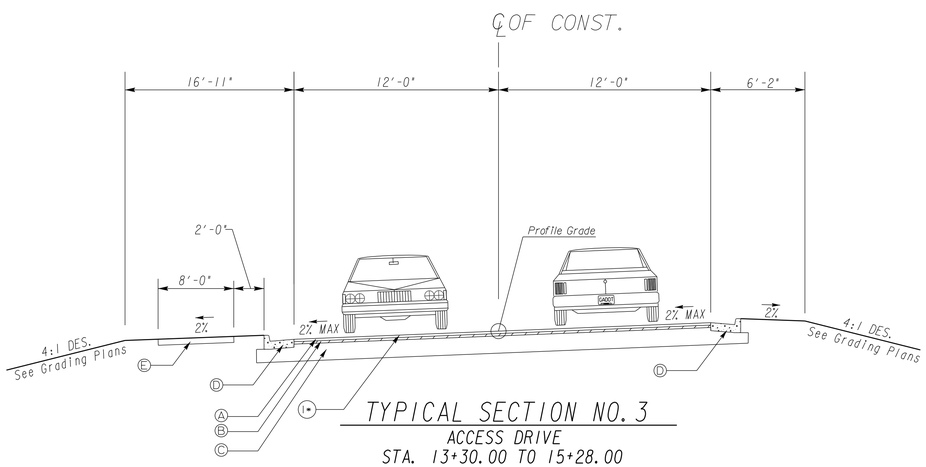
TYPICAL SECTION NO. 1

BUS WAY
STA. 60+96.00 TO 62+88.00 LT
STA. 61+21.43 TO 63+16.43 RT



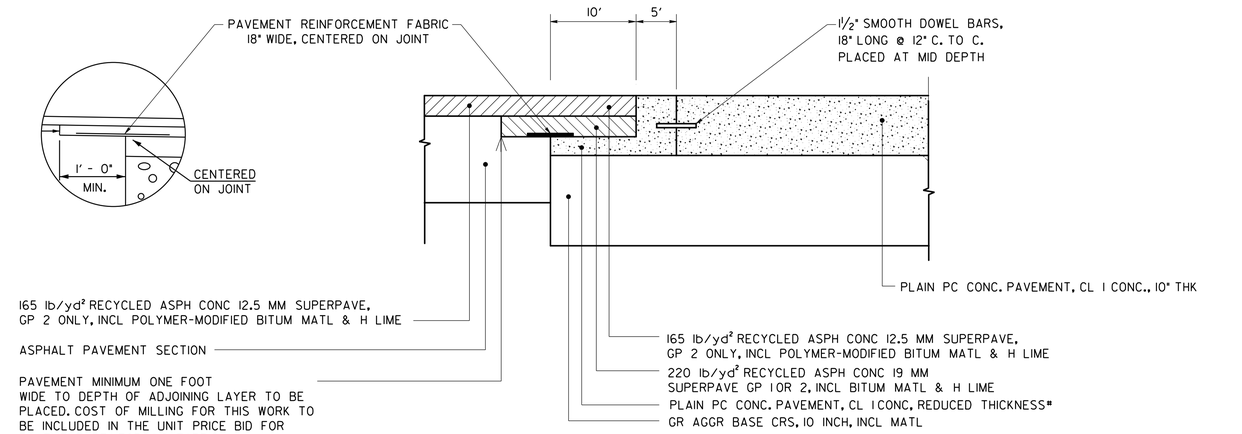
TYPICAL SECTION NO. 2

BUS WAY
STA. 60+34.00 TO 60+96.00 LT & 62+88.00 TO 64+34.00 LT
STA. 60+34.00 TO 61+21.43 RT & 63+16.43 TO 64+34.00 RT



TYPICAL SECTION NO. 3

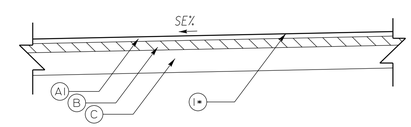
ACCESS DRIVE
STA. 13+30.00 TO 15+28.00



*NOTE: THE REDUCED THICKNESS CONCRETE SLAB SHALL BE PAID FOR AS P.C. CONCRETE PAVEMENT. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE REDUCED DEPTH.

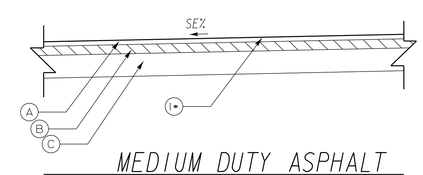
JOINTED PLAIN CONCRETE PAVEMENT TO ASPHALTIC CONCRETE PAVEMENT TRANSITION DETAIL

N.T.S.



STANDARD DUTY ASPHALT PAVEMENT SECTION

SEE CONSTRUCTION LAYOUT PLANS FOR LOCATIONS



MEDIUM DUTY ASPHALT PAVEMENT SECTION

SEE CONSTRUCTION LAYOUT PLANS FOR LOCATIONS

* THE HIGH DENSITY MINERAL BOND SEAL COATING SHALL BE APPLIED ON FINISHED ASPHALTIC PAVEMENT SURFACES WITHIN SEVEN BUSINESS DAYS OF THE PAVEMENT INSTALLATION COMPLETION DATE.

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH. CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME 165 lb/sy
A1	RECYCLED ASPH. CONC. 9.5 mm SUPERPAVE, TYPE II, BLEND I, INCL BITUM MATL & H LIME 137.5 lb/sy
B	RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME 220 lb/sy
C	GR AGGR BASE CRS, 10 INCH, INCL MATL
D	CONC. CURB & GUTTER, 8 IN x 24 IN, TP 2,(GA STD 9032 B)
E	CONC. SIDEWALK, 4 IN
F	CONCRETE HEADER CURB, 6 IN, TP 2
G	PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK
H	STRAIGHT GRANITE CURB, 6 IN X 18 IN, TP A (SEE CIVIL DETAILS; SHEET 38-0004)
I*	HIGH DENSITY MINERAL BOND (HA5 OR APPROVED EQUAL)
J	GR AGGR BASE CRS, 4 INCH, INCL MATL
K	DETECTABLE WARNING SURFACE
L	DECORATIVE FENCE - SEE LANDSCAPE PLANS

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030455 11/20/2020 CHARLES CHRISTOPHER KING

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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

TYPICAL SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

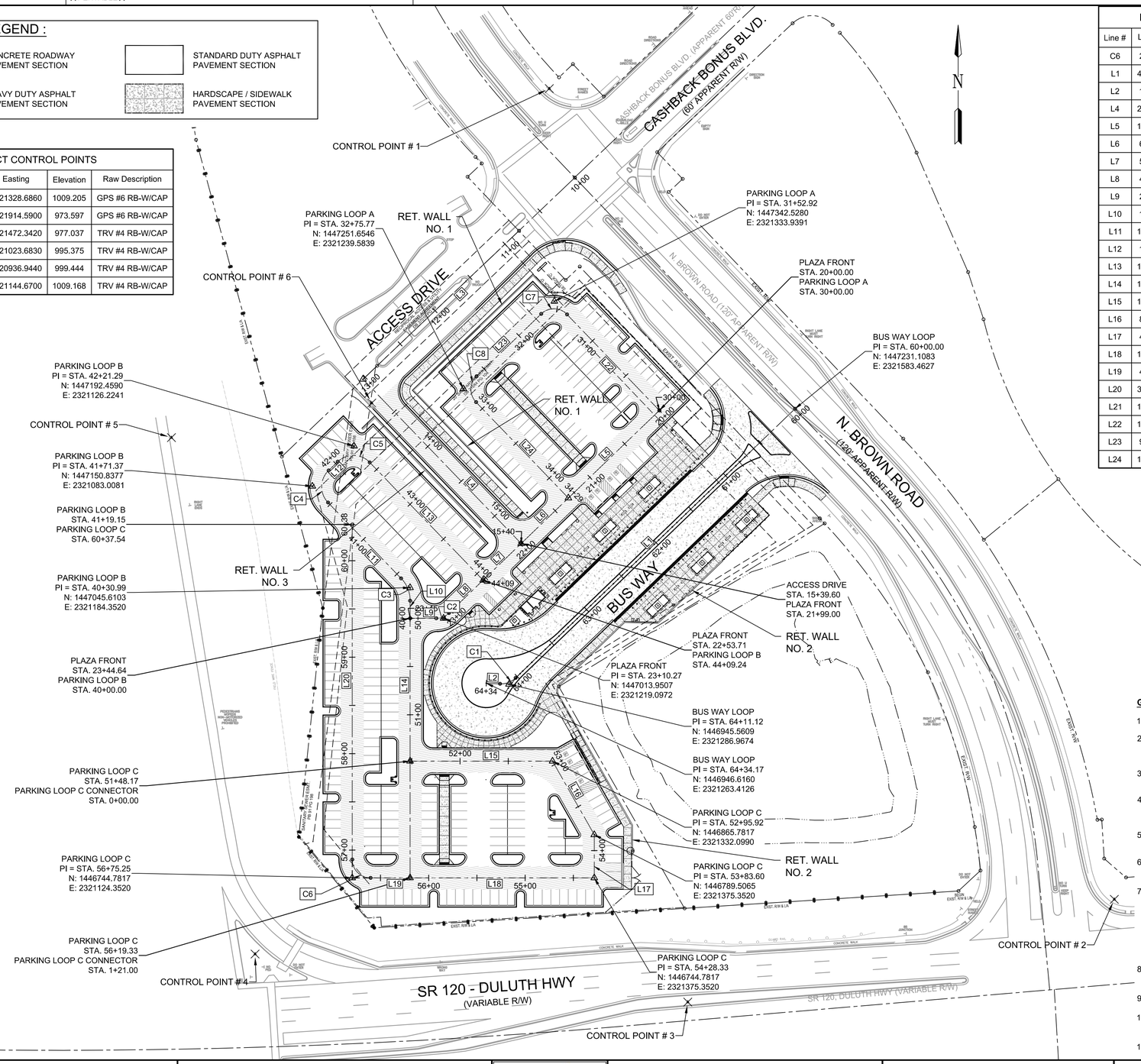
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION

PROJECT CONTROL POINTS

Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
2	1446722.5530	2321914.5900	973.597	GPS #6 RB-W/CAP
3	1446616.0800	2321472.3420	977.037	TRV #4 RB-W/CAP
4	1446665.8680	2321023.6830	995.375	TRV #4 RB-W/CAP
5	1447201.2730	2320936.9440	999.444	TRV #4 RB-W/CAP
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP



Line Table

Line #	Length	Direction
C6	29.85'	N57°37'12"W
L1	402.19'	S46°04'37"W
L2	14.13'	N87°25'41"W
L4	236.43'	S43°55'23"E
L5	131.00'	S46°04'37"W
L6	68.00'	S46°04'37"W
L7	54.71'	S46°04'37"W
L8	49.27'	S46°04'37"W
L9	27.08'	N90°00'00"W
L10	18.15'	N0°00'00"E
L11	109.09'	N43°55'23"W
L12	13.00'	N46°04'37"E
L13	169.50'	S43°55'23"E
L14	148.17'	S0°00'00"E
L15	147.75'	N90°00'00"E
L16	87.69'	S29°33'22"E
L17	44.72'	S0°00'00"E
L18	191.00'	N90°00'00"W
L19	41.00'	N90°00'00"W
L20	347.37'	N0°00'00"E
L21	121.00'	S0°00'00"E
L22	138.00'	N43°55'24"W
L23	93.00'	S46°04'37"W
L24	138.00'	S43°55'23"E

Curve Data

Curve #	
C1	BUS WAY LOOP PI STA =64+11.64 N: 1446945.5578 E: 2321286.9698 DELTA =46°29'42" D= 260°26'07" T= 9.45' L= 17.85' R= 22.00'

Curve Data

Curve #	
C2	PLAZA FRONT PI STA =23+10.65 N: 1447013.9507 E: 2321219.0972 DELTA =43°55'23" D= 301°33'24" T= 7.66' L= 14.57' R= 19.00'

Curve Data

Curve #	
C3	PARKING LOOP B PI STA =40+31.66 N: 1447045.6103 E: 2321184.3520 DELTA =43°55'23" D= 171°01'56" T= 13.51' L= 25.68' R= 33.50'

Curve Data

Curve #	
C4	PARKING LOOP B PI STA =41+76.42 N: 1447150.8377 E: 2321083.0081 DELTA =89°59'59" D= 243°48'43" T= 23.50' L= 36.91' R= 23.50'

Curve Data

Curve #	
C5	PARKING LOOP B PI STA =42+26.33 N: 1447192.4590 E: 2321126.2241 DELTA =90°00'00" D= 243°48'43" T= 23.50' L= 36.91' R= 23.50'

Curve Data

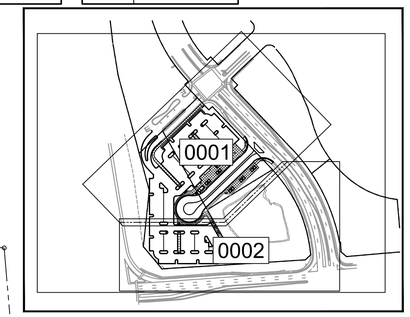
Curve #	
C6	PARKING LOOP C PI STA =56+79.33 N: 1446744.7817 E: 2321124.3520 DELTA =90°00'00" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'

Curve Data

Curve #	
C7	PARKING LOOP A PI STA =31+57.00 N: 1447342.5280 E: 2321333.9391 DELTA =89°59'59" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'

Curve Data

Curve #	
C8	PARKING LOOP A PI STA =32+79.85 N: 1447251.6546 E: 2321239.5839 DELTA =90°00'00" D= 301°33'24" T= 19.00' L= 29.85' R= 19.00'



KEY MAP

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001.
2. PROJECT LOCATION: LAND LOTS 80 & 81, DISTRICT 7, GWINNETT COUNTY, GEORGIA. ASSIGNED ADDRESS IS 2115 NORTH BROWN ROAD.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. REFER TO DRAWING 11-0003 AND 11-0004 AND ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
5. NO GATES WILL BE ALLOWED ALONG THE L/A ON INTERSTATE RIGHTS OF WAY.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0002.
7. THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA: "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155; MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006".
8. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.
9. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.
10. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.
11. PARCEL IS ZONED C-2. TOTAL PROJECT AREA = ± 5.49 AC.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
SANITARY SEWER EASEMENT
POND
GDOT R/W AND LIMITED ACCESS

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARAMES

ATKINS
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Atkins North America, Inc
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Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

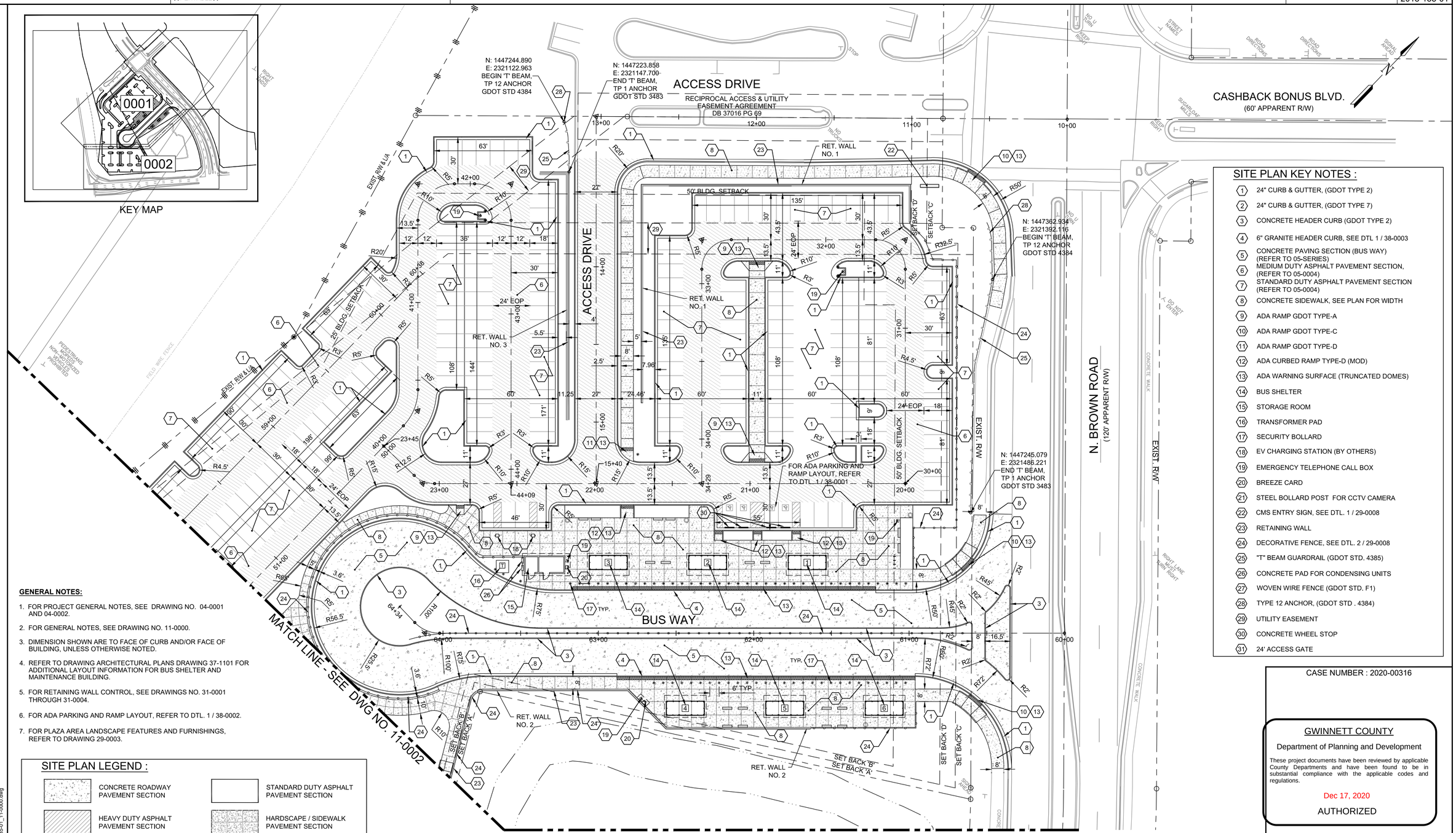
REVISION DATES

OVERALL CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 11-0000



SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
2. 24" CURB & GUTTER, (GDOT TYPE 7)
3. CONCRETE HEADER CURB (GDOT TYPE 2)
4. 6" GRANITE HEADER CURB, SEE DTL 1 / 38-0003
5. CONCRETE PAVING SECTION (BUS WAY) (REFER TO 05-SERIES)
6. MEDIUM DUTY ASPHALT PAVEMENT SECTION, (REFER TO 05-0004)
7. STANDARD DUTY ASPHALT PAVEMENT SECTION (REFER TO 05-0004)
8. CONCRETE SIDEWALK, SEE PLAN FOR WIDTH
9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
12. ADA CURBED RAMP TYPE-D (MOD)
13. ADA WARNING SURFACE (TRUNCATED DOMES)
14. BUS SHELTER
15. STORAGE ROOM
16. TRANSFORMER PAD
17. SECURITY BOLLARD
18. EV CHARGING STATION (BY OTHERS)
19. EMERGENCY TELEPHONE CALL BOX
20. BREEZE CARD
21. STEEL BOLLARD POST FOR CCTV CAMERA
22. CMS ENTRY SIGN, SEE DTL. 1 / 29-0008
23. RETAINING WALL
24. DECORATIVE FENCE, SEE DTL. 2 / 29-0008
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 4384)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. 24' ACCESS GATE

GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
5. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
6. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.
7. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

- EX BARBED WIRE FENCE
- PROPOSED PROPERTY/ROW LINE
- PROPOSED CENTERLINE
- PROPOSED FENCE
- LAND LOT LINE
- SANITARY SEWER EASEMENT
- POND
- GDOT R/W AND LIMITED ACCESS

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARLINES

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Expiration Date 06/30/2022

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

REVISION DATES

CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		11-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SITE PLAN KEY NOTES :

1. 24" CURB & GUTTER, (GDOT TYPE 2)
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9. ADA RAMP GDOT TYPE-A
10. ADA RAMP GDOT TYPE-C
11. ADA RAMP GDOT TYPE-D
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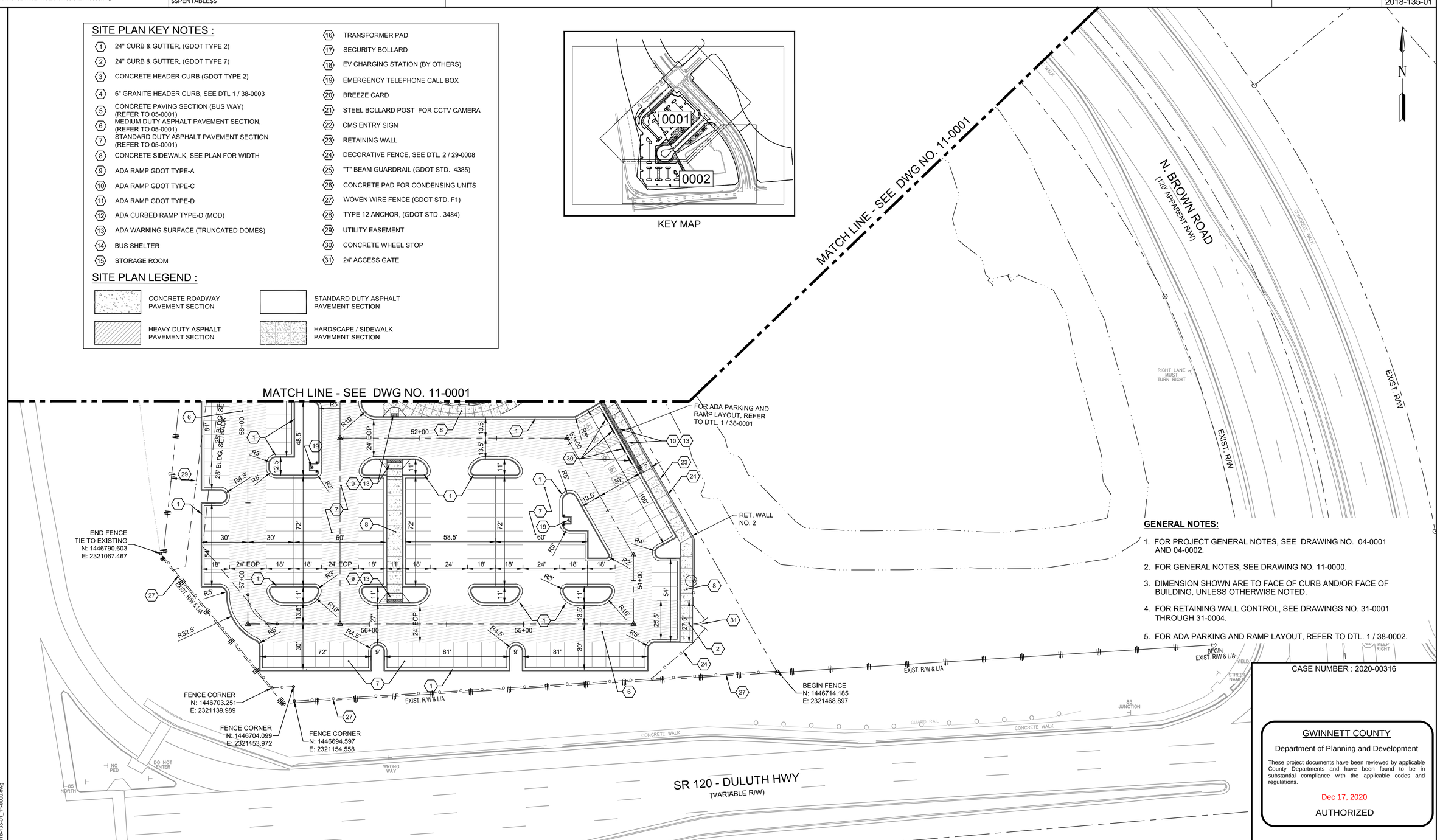
25. "T" BEAM GUARDRAIL (GDOT STD. 4385)
26. CONCRETE PAD FOR CONDENSING UNITS
27. WOVEN WIRE FENCE (GDOT STD. F1)
28. TYPE 12 ANCHOR, (GDOT STD . 3484)
29. UTILITY EASEMENT
30. CONCRETE WHEEL STOP
31. 24' ACCESS GATE

SITE PLAN LEGEND :

- CONCRETE ROADWAY PAVEMENT SECTION
- STANDARD DUTY ASPHALT PAVEMENT SECTION
- HEAVY DUTY ASPHALT PAVEMENT SECTION
- HARDSCAPE / SIDEWALK PAVEMENT SECTION

KEY MAP



GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
4. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
5. FOR ADA PARKING AND RAMP LAYOUT, REFER TO DTL. 1 / 38-0002.

CASE NUMBER : 2020-00316

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Dec 17, 2020

AUTHORIZED

- EX BARBED WIRE FENCE
- PROPOSED PROPERTY/ROW LINE
- PROPOSED CENTERLINE
- PROPOSED FENCE
- LAND LOT LINE
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- POND
- GDOT R/W AND LIMITED ACCESS

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARAVAS

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(IN FEET)
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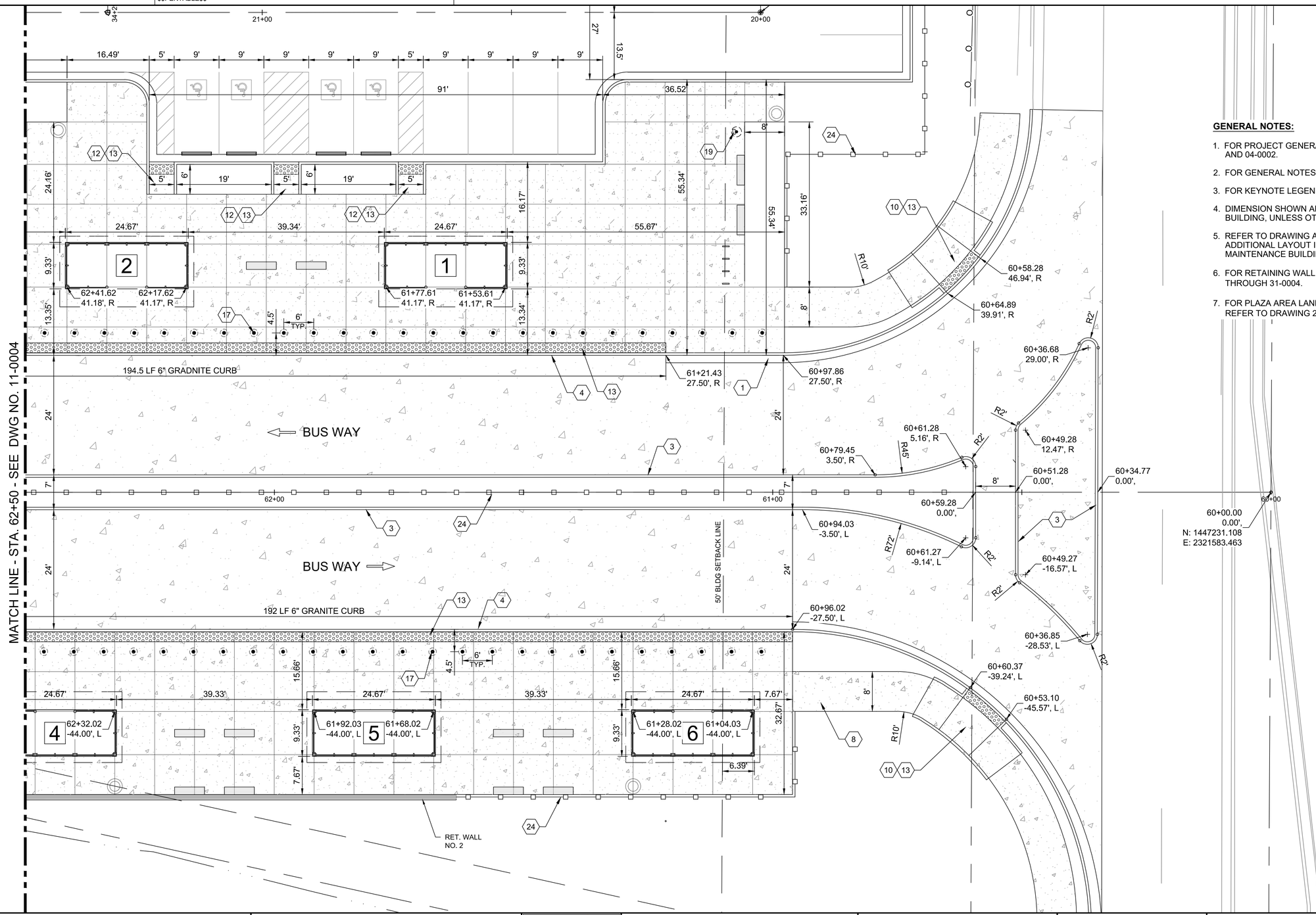
REVISION DATES

CONSTRUCTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 11-0002



GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. FOR KEYNOTE LEGEND, SEE DRAWING NO. 11-0001
4. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
5. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
7. FOR PLAZA AREA LANDSCAPE FEATURES AND FURNISHINGS, REFER TO DRAWING 29-0003.

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
SANITARY SEWER EASEMENT
POND
GDOT R/W AND LIMITED ACCESS

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARAKAS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

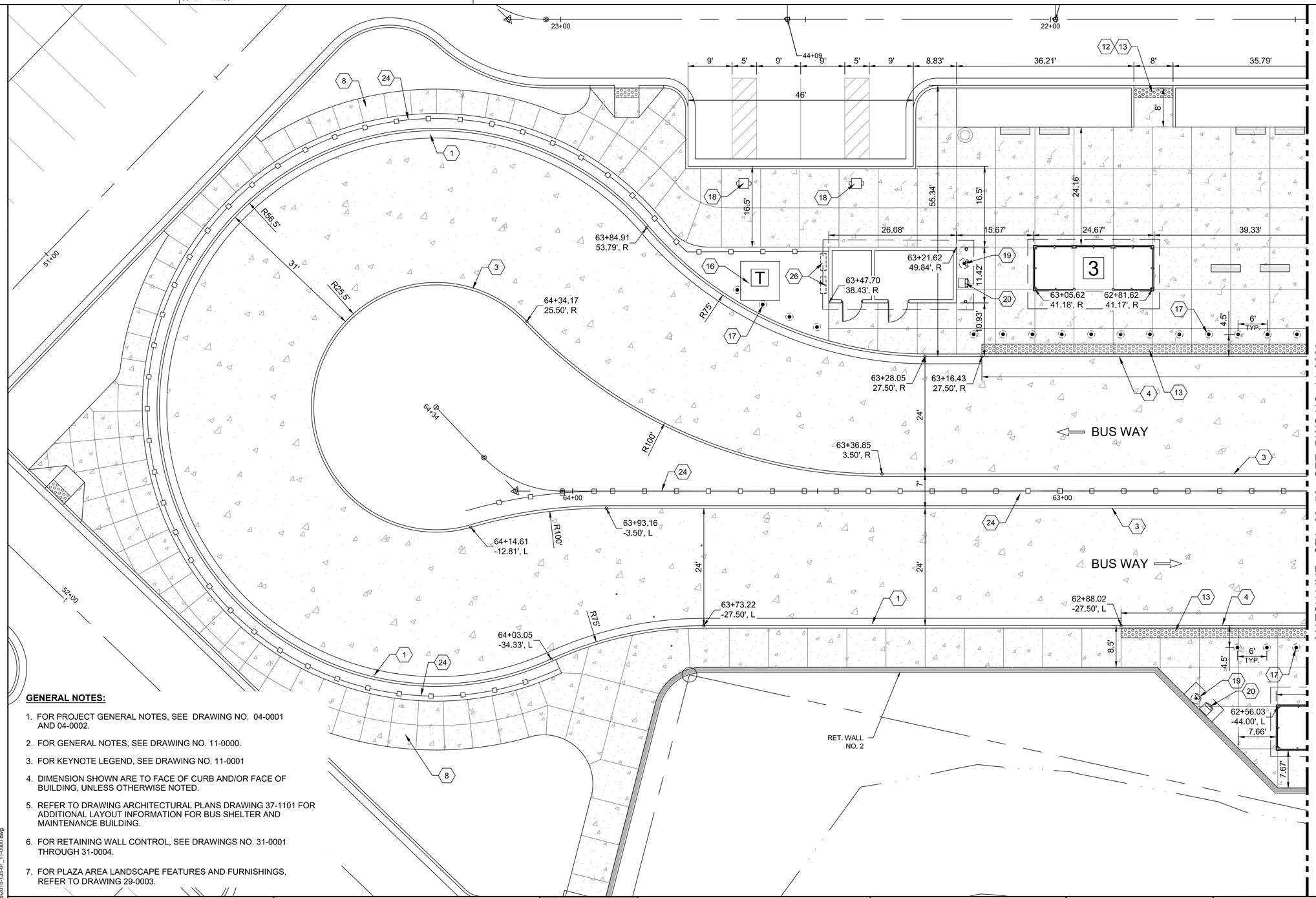
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

CONSTRUCTION LAYOUT
ENLARGED BUS WAY AND PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	11-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	



GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING NO. 04-0001 AND 04-0002.
2. FOR GENERAL NOTES, SEE DRAWING NO. 11-0000.
3. FOR KEYNOTE LEGEND, SEE DRAWING NO. 11-0001
4. DIMENSION SHOWN ARE TO FACE OF CURB AND/OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
5. REFER TO DRAWING ARCHITECTURAL PLANS DRAWING 37-1101 FOR ADDITIONAL LAYOUT INFORMATION FOR BUS SHELTER AND MAINTENANCE BUILDING.
6. FOR RETAINING WALL CONTROL, SEE DRAWINGS NO. 31-0001 THROUGH 31-0004.
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CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

EX BARBED WIRE FENCE
PROPOSED PROPERTY/ROW LINE
PROPOSED CENTERLINE
PROPOSED FENCE
LAND LOT LINE
SANITARY SEWER EASEMENT
POND
GDOT R/W AND LIMITED ACCESS

No. 21371 PROFESSIONAL ENGINEER GEORGE N. KAKUNDES 11/20/2020

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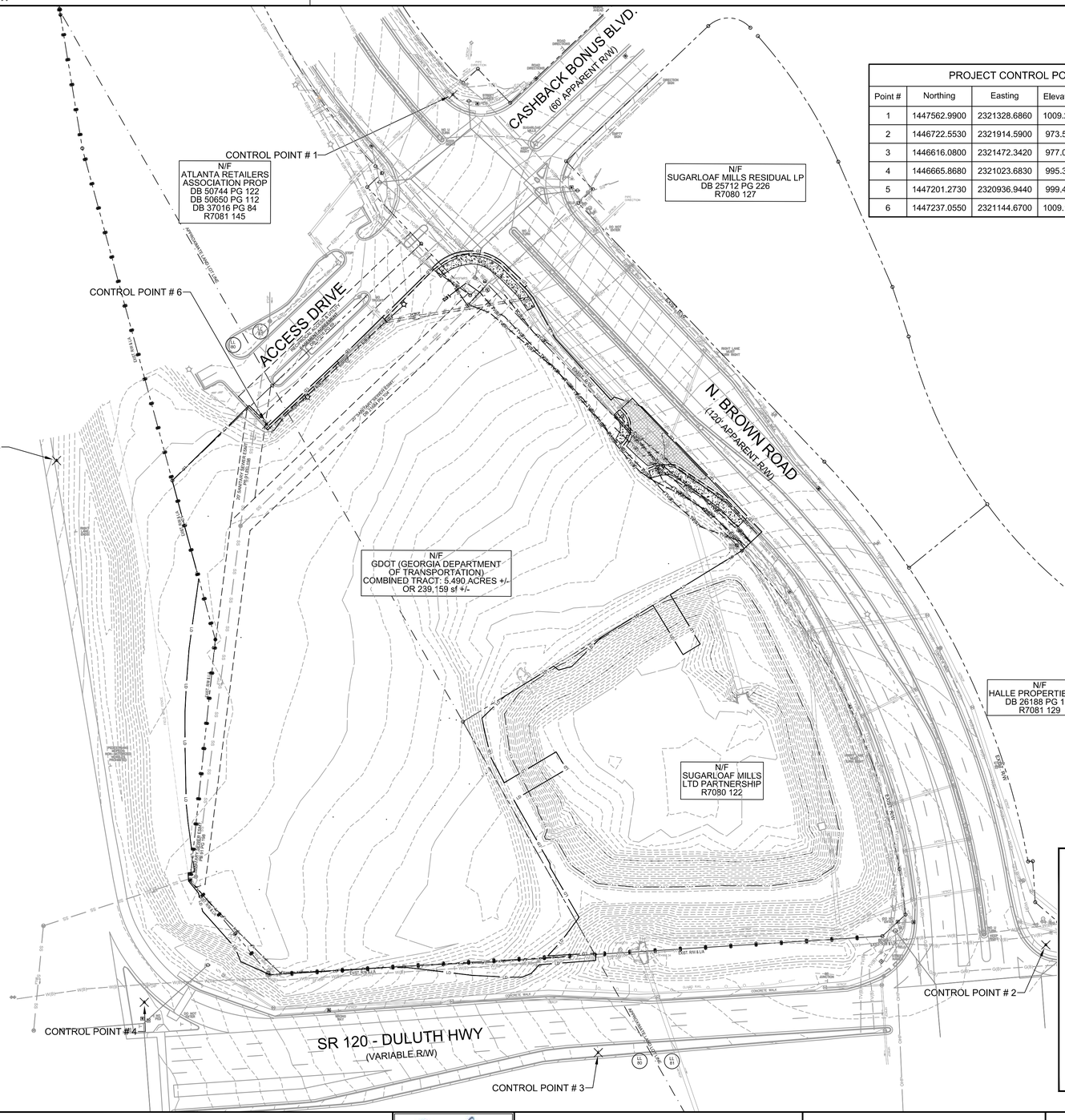
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

CONSTRUCTION LAYOUT
ENLARGED BUS WAY AND PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

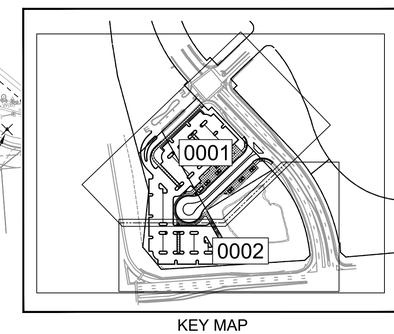
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	11-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	



PROJECT CONTROL POINTS				
Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
2	1446722.5530	2321914.5900	973.597	GPS #6 RB-W/CAP
3	1446616.0800	2321472.3420	977.037	TRV #4 RB-W/CAP
4	1446665.8680	2321023.6830	995.375	TRV #4 RB-W/CAP
5	1447201.2730	2320936.9440	999.444	TRV #4 RB-W/CAP
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP

GENERAL DEMOLITION NOTES :

1. EXISTING INFORMATION AND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY INFORMATION AND LOCATIONS GIVEN ON DRAWINGS IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
2. OBTAIN ALL PERMITS FROM STATE AND LOCAL AUTHORITIES PRIOR TO THE DEMOLITION AND REMOVAL OF ANY STRUCTURES, PAVING OR INFRASTRUCTURE.
3. CONTRACTOR MUST MAINTAIN ALL UTILITY SERVICE TO ALL ADJACENT STRUCTURES AND BUILDINGS AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO INSURE NO DISRUPTIONS OCCUR.
4. ALL DEBRIS, STRUCTURES, INFRASTRUCTURE, PIPES, TRENCH FILL , POLES, CABLE, PAVING AND ANY OTHER MATERIAL IDENTIFIED AND OR REQUIRED TO CONSTRUCT THE PROJECT FOR REMOVAL SHALL BE LEGALLY DISPOSED OF OFF-SITE AT A PERMITTED FACILITY.
5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION/DEMOLITION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH UTILITY OWNERS FOR RELOCATION OF ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS AND TRAFFIC CONTROL PLAN MEASURES FOR PROTECTION AND SAFETY OF THE PUBLIC. TRAFFIC CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING/MAINTAINING PEDESTRIAN ACCESS ALONG NORTH BROWN ROAD THROUGHOUT THE PROJECT CONSTRUCTION.
8. THE CONTRACTOR SHALL FIELD LOCATE (HORIZONTAL AND VERTICAL) THE EXISTING WATER MAIN ALONG DULUTH HIGHWAY AND NOTIFY ENGINEER. ADJUSTMENT MAY BE REQUIRED TO MAINTAIN MINIMUM DEPTH OF COVER.
9. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
10. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.



KEY MAP

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

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Atlanta, GA 30328
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

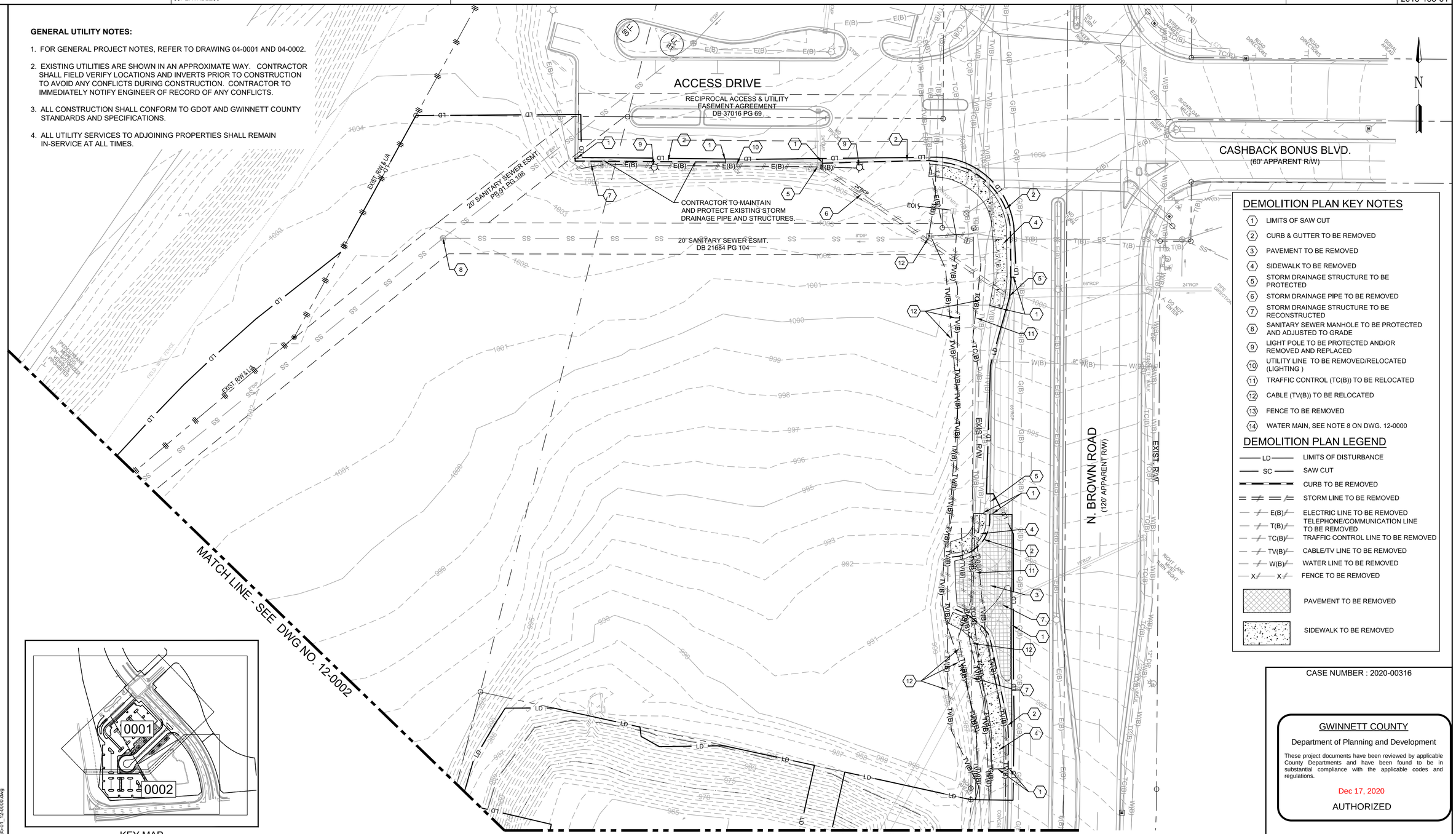
OVERALL EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	12-0000
CORRECTED:	DATE:	
VERIFIED:	DATE:	

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.



DEMOLITION PLAN KEY NOTES

1. LIMITS OF SAW CUT
2. CURB & GUTTER TO BE REMOVED
3. PAVEMENT TO BE REMOVED
4. SIDEWALK TO BE REMOVED
5. STORM DRAINAGE STRUCTURE TO BE PROTECTED
6. STORM DRAINAGE PIPE TO BE REMOVED
7. STORM DRAINAGE STRUCTURE TO BE RECONSTRUCTED
8. SANITARY SEWER MANHOLE TO BE PROTECTED AND ADJUSTED TO GRADE
9. LIGHT POLE TO BE PROTECTED AND/OR REMOVED AND REPLACED
10. UTILITY LINE TO BE REMOVED/RELOCATED (LIGHTING)
11. TRAFFIC CONTROL (TC(B)) TO BE RELOCATED
12. CABLE (TV(B)) TO BE RELOCATED
13. FENCE TO BE REMOVED
14. WATER MAIN, SEE NOTE 8 ON DWG. 12-0000

DEMOLITION PLAN LEGEND

- LD — LIMITS OF DISTURBANCE
- SC — SAW CUT
- CURB TO BE REMOVED
- STORM LINE TO BE REMOVED
- E(B) — ELECTRIC LINE TO BE REMOVED
- T(B) — TELEPHONE/COMMUNICATION LINE TO BE REMOVED
- TC(B) — TRAFFIC CONTROL LINE TO BE REMOVED
- TV(B) — CABLE/TV LINE TO BE REMOVED
- W(B) — WATER LINE TO BE REMOVED
- X — FENCE TO BE REMOVED
- PAVEMENT TO BE REMOVED
- SIDEWALK TO BE REMOVED

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

KEY MAP

REGISTERED PROFESSIONAL ENGINEER No. 21371 GEORGE N. KAKUNIS 11/20/2020

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

REVISION DATES

EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	12-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

KEY MAP

DEMOLITION PLAN KEY NOTES

1. LIMITS OF SAW CUT
2. CURB & GUTTER TO BE REMOVED
3. PAVEMENT TO BE REMOVED
4. SIDEWALK TO BE REMOVED
5. STORM DRAINAGE STRUCTURE TO BE PROTECTED
6. STORM DRAINAGE PIPE TO BE REMOVED
7. STORM DRAINAGE STRUCTURE TO BE ADJUSTED
8. SANITARY SEWER MANHOLE TO BE PROTECTED AND ADJUSTED TO GRADE
9. LIGHT POLE TO BE PROTECTED AND/OR REMOVED AND REPLACED
10. UTILITY LINE TO BE REMOVED/RELOCATED (LIGHTING)
11. TRAFFIC CONTROL (TC(B)) TO BE RELOCATED
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DEMOLITION PLAN LEGEND

LD	LIMITS OF DISTURBANCE
SC	SAW CUT
	CURB TO BE REMOVED
	STORM LINE TO BE REMOVED
E(B)	ELECTRIC LINE TO BE REMOVED
T(B)	TELEPHONE/COMMUNICATION LINE TO BE REMOVED
TC(B)	TRAFFIC CONTROL LINE TO BE REMOVED
TV(B)	CABLE/TV LINE TO BE REMOVED
W(B)	WATER LINE TO BE REMOVED
X	FENCE TO BE REMOVED
	PAVEMENT TO BE REMOVED
	SIDEWALK TO BE REMOVED

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 AND 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS.
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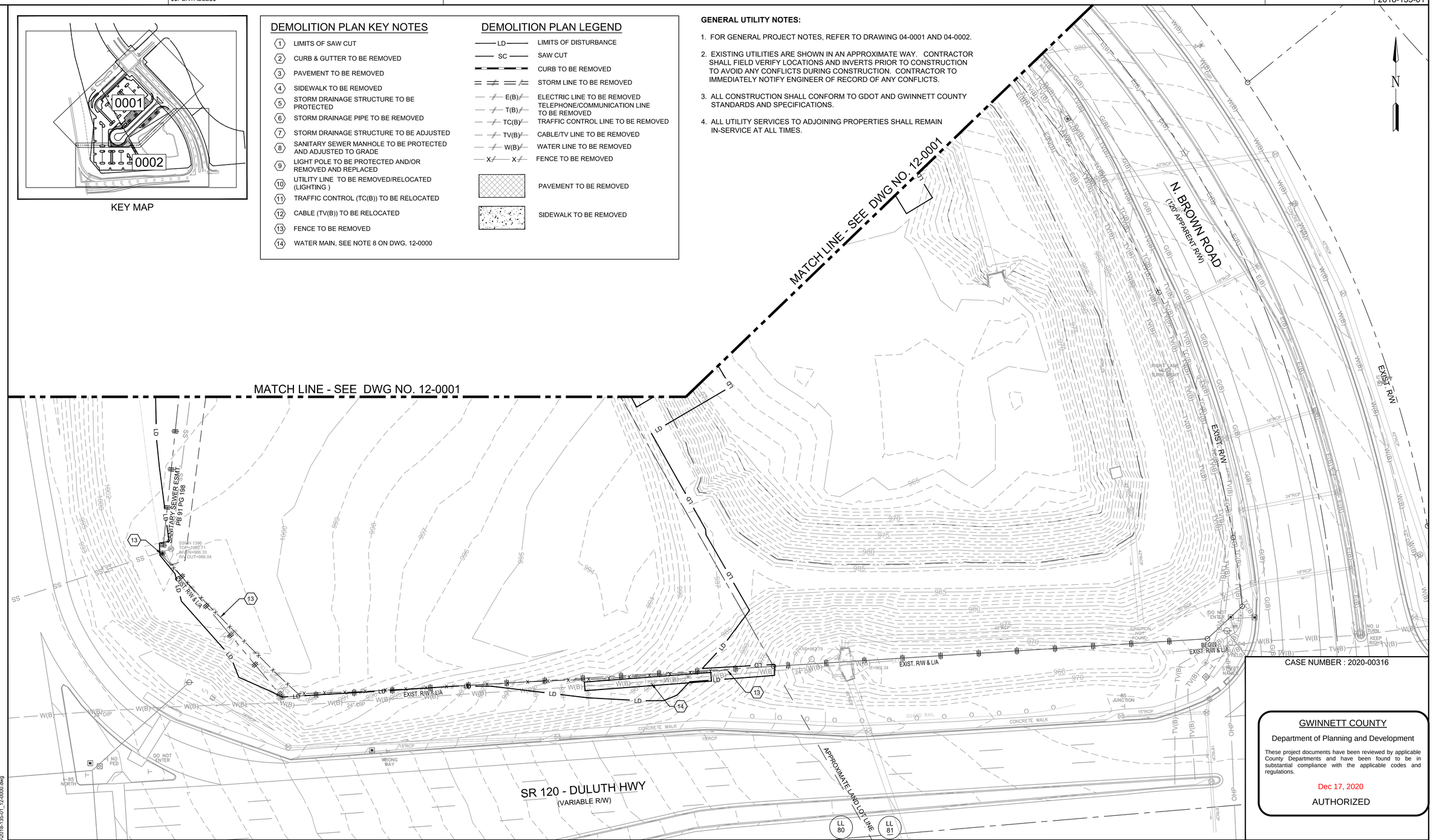
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.



CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKLINIS

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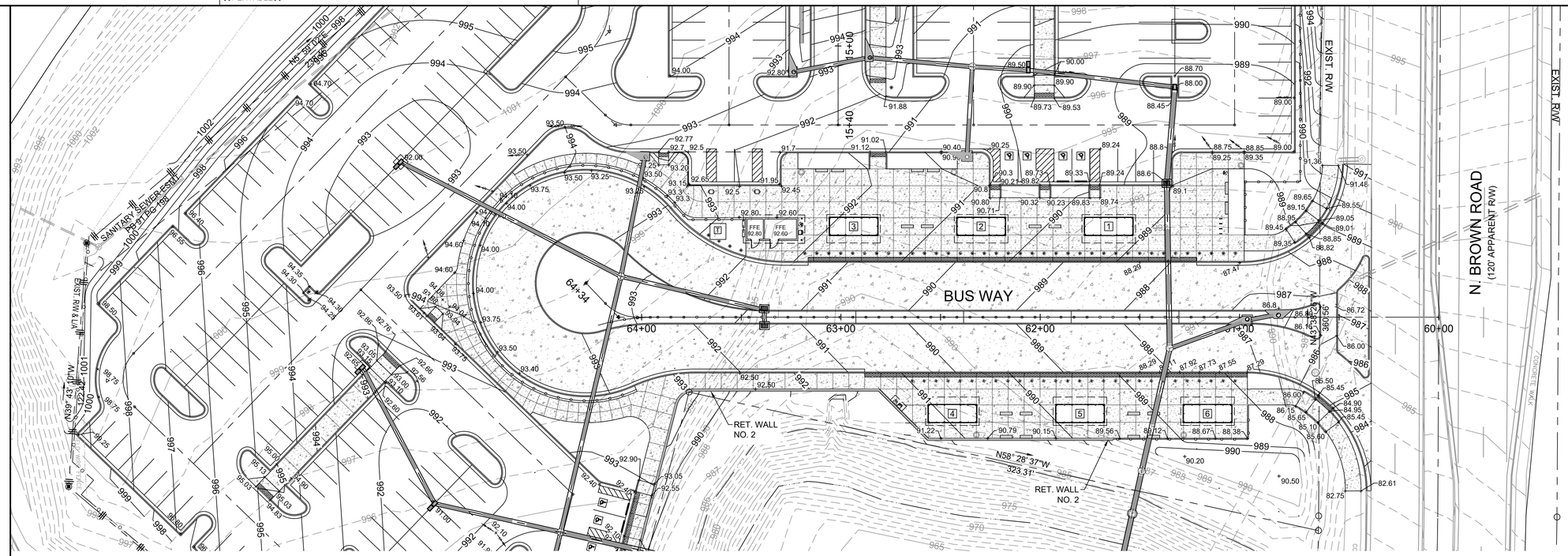
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

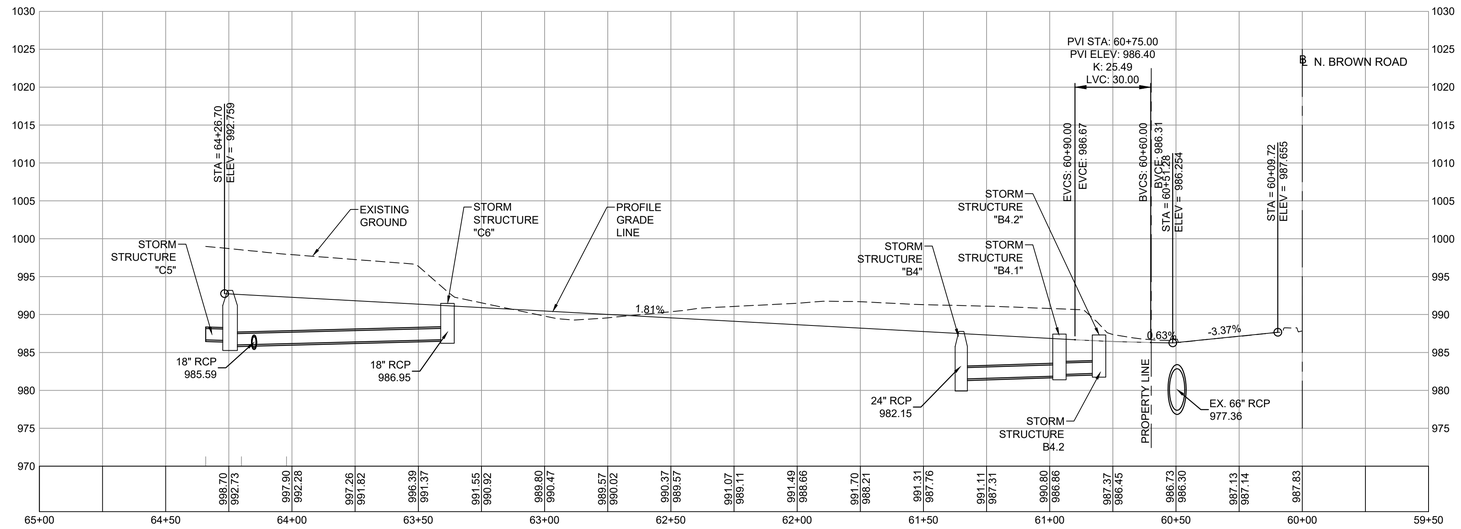
REVISION DATES

EXISTING CONDITION AND DEMOLITION PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		12-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		





BUS WAY

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GWINNETT COUNTY

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Expiration Date 06/30/2022

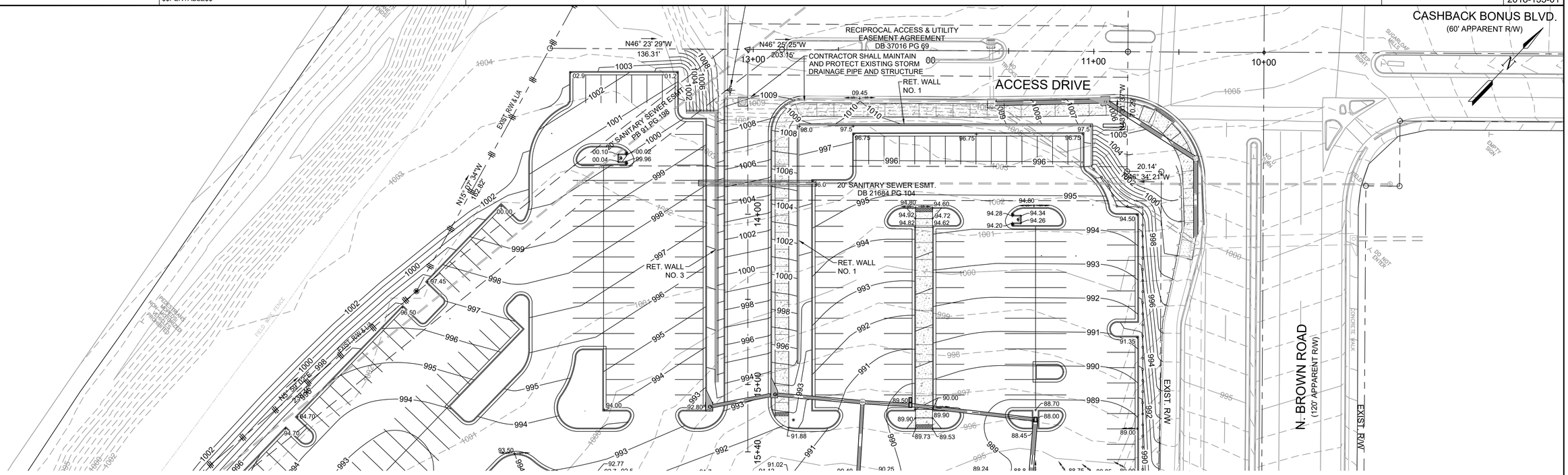
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

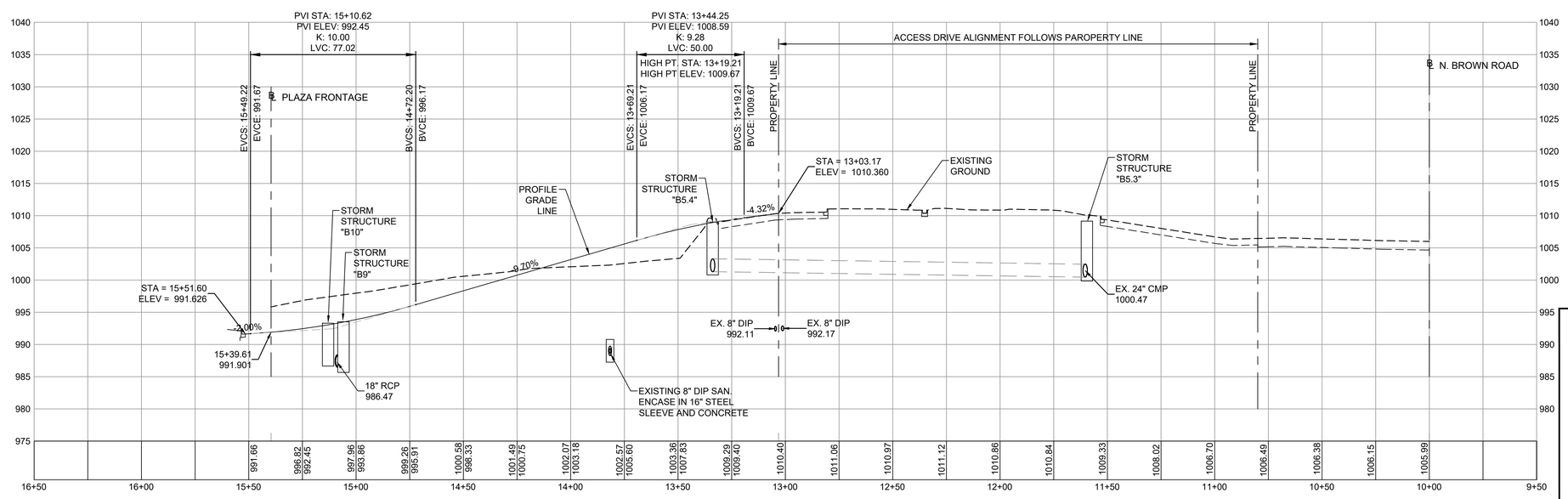
REVISION DATES

BUS WAY
PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		16-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		





ACCESS DRIVE

CASE NUMBER : 2020-00316

GWINNETT COUNTY

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Dec 17, 2020

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HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

ACCESS DRIVE PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
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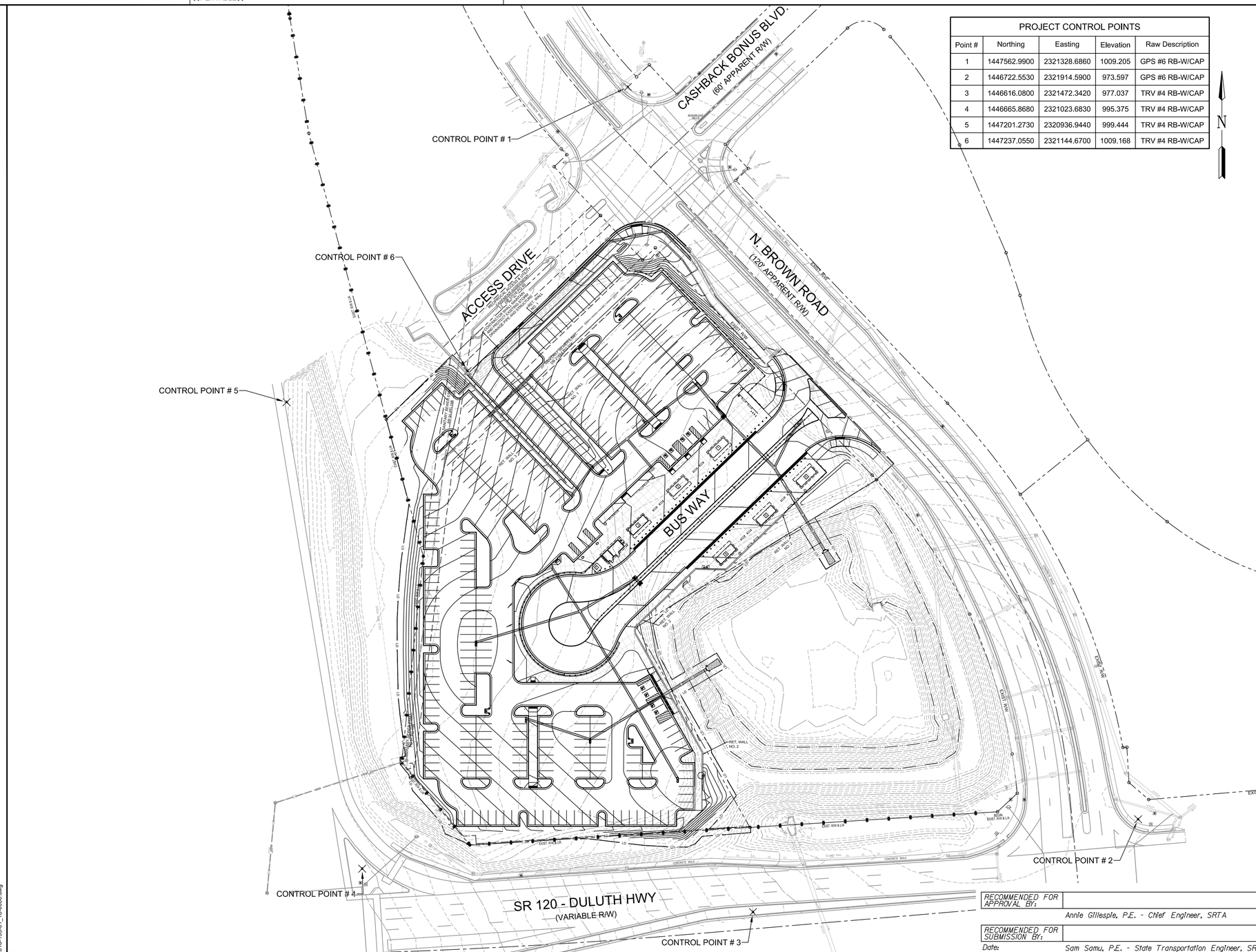

PROJECT CONTROL POINTS				
Point #	Northing	Easting	Elevation	Raw Description
1	1447562.9900	2321328.6860	1009.205	GPS #6 RB-W/CAP
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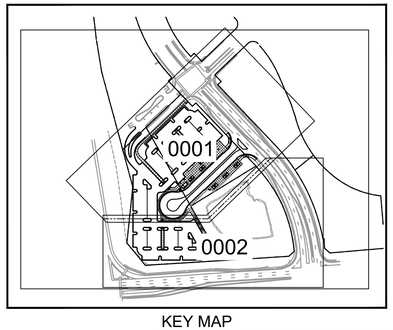
6	1447237.0550	2321144.6700	1009.168	TRV #4 RB-W/CAP

GRADING AND DRAINAGE GENERAL NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
3. EXISTING INFORMATION IS SHOWN IN AN APPROXIMATE WAY. THE CONTRACTOR SHALL FIELD VERIFY DATA PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION.
4. FOR STORM DRAINAGE PROFILES, SEE DRAWING NO. 22-0001 THRU 22-0002.
5. ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CLASS III, UNLESS OTHERWISE NOTED.
6. TOTAL PROJECT AREA = ± 5.49 AC.,
   TOTAL DISTURBED AREA = ± 5.73 AC. (0.24 OFF SITE),
   TOTAL PROPOSED IMPERVIOUS AREA = ± 4.25 (ON-SITE ONLY) AC. (77.41%).
7. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.
8. TOPSOIL FROM WITHIN THE LIMITS OF DISTURBANCE SHALL BE STRIPPED AND STOCKPILED IN A SUITABLE LOCATION IN CONJUNCTION WITH GRADING OPERATIONS. SILT FENCE MUST BE PROVIDED AROUND THE PERIMETER OF THE STOCKPILE AREA AND TEMPORARY GRASSING OF THE STOCKPILE TO PREVENT EROSION WILL BE REQUIRED. PRIOR TO PERMANENT SOD, SEED MIXES AND LANDSCAPE PLANTING, REMOVE AND SPREAD TOPSOIL FROM THE STOCKPILE, SPREADING IT EVENLY WITHIN ALL LANDSCAPE PLANTING AREAS IN ACCORDANCE WITH THE LANDSCAPE PLANS.
9. THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA:
   "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155;
   MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006".
10. EARTHEN FILL SHALL BE CLASS 'CL' OR 'ML' MATERIAL APPROVED FOR USE BY GEOTECHNICAL ENGINEER (PE) AND PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR UNDER SAID ENGINEER'S DIRECTION.
11. SUBMITTAL OF COMPACTION REPORTS, PERFORMED BY GEOTECHNICAL ENGINEER, TO DOCUMENT CONSTRUCTION PRACTICES WILL BE REQUIRED FOR THIS PROJECT.
12. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1)
13. NOTIFY GWINNETT COUNTY INSPECTOR 24 HOURS BEFORE BEGINNING OF EACH PHASE OF CONSTRUCTION 678-518-6000.
14. CONTRACTOR SHALL CALL DEVELOPMENT INSPECTIONS TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY CONSTRUCTION 678-518-6000



KEY MAP

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

RECOMMENDED FOR APPROVAL BY:
Annie Gillespie, P.E. - Chief Engineer, SRTA

RECOMMENDED FOR SUBMISSION BY:
Sam Samu, P.E. - State Transportation Engineer, SRTA
Date:
0000043839
GSWCC LEVEL II Certification Number

PROPOSED MAJOR CONTOUR	HEADWALL		
PROPOSED MINOR CONTOUR	WEIR INLET		
EX MAJOR CONTOUR	STORM MANHOLE		
EX MINOR CONTOUR	SPOT ELEVATIONS	94.50	
STORM PIPE	DROP INLETS		
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKLIGIS

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1600 RiverEdge Parkway NW, Ste. 700
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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

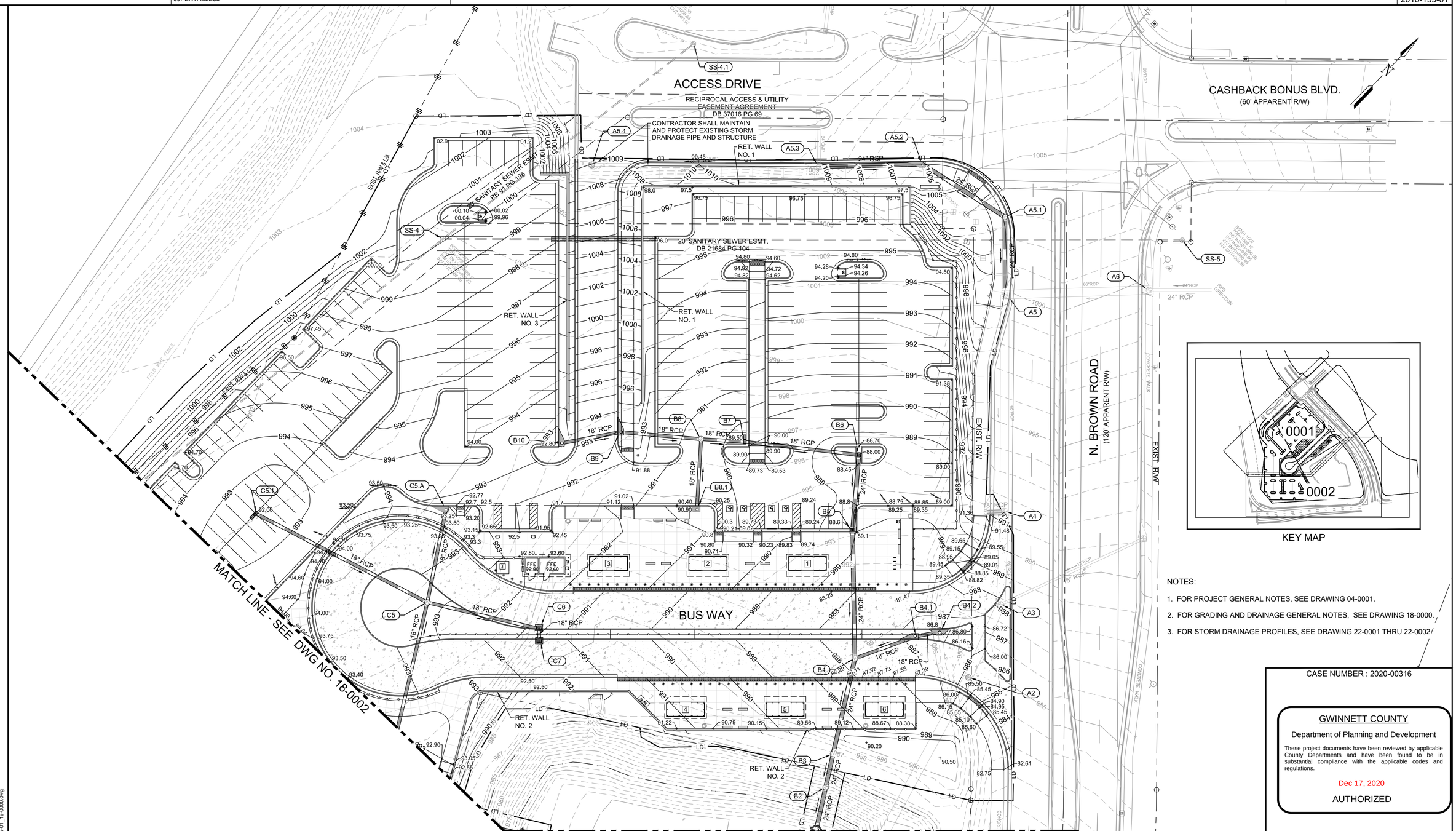
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

REVISION DATES

OVERALL GRADING AND DRAINAGE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		



NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002/

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

PROPOSED MAJOR CONTOUR	HEADWALL		
PROPOSED MINOR CONTOUR	WEIR INLET		
EX MAJOR CONTOUR	STORM MANHOLE		
EX MINOR CONTOUR	SPOT ELEVATIONS	+	94.50
STORM PIPE	DROP INLETS		
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKLIKES

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

GRADING AND DRAINAGE PLAN

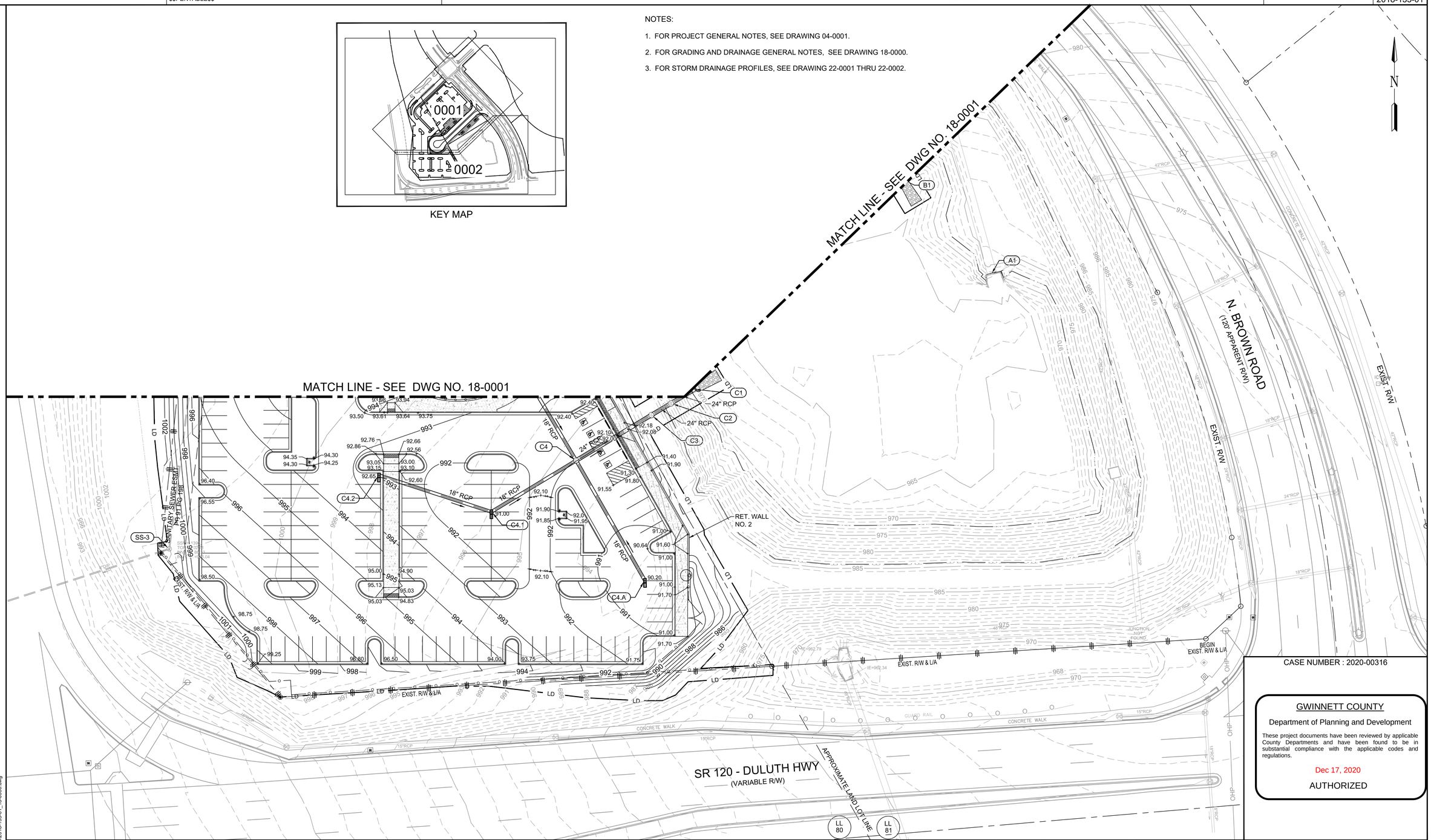
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.

KEY MAP



CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

PROPOSED MAJOR CONTOUR	HEADWALL		
PROPOSED MINOR CONTOUR	WEIR INLET		
EX MAJOR CONTOUR	STORM MANHOLE		
EX MINOR CONTOUR	SPOT ELEVATIONS	+ 94.50	
STORM PIPE	DROP INLETS		
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARUNES

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

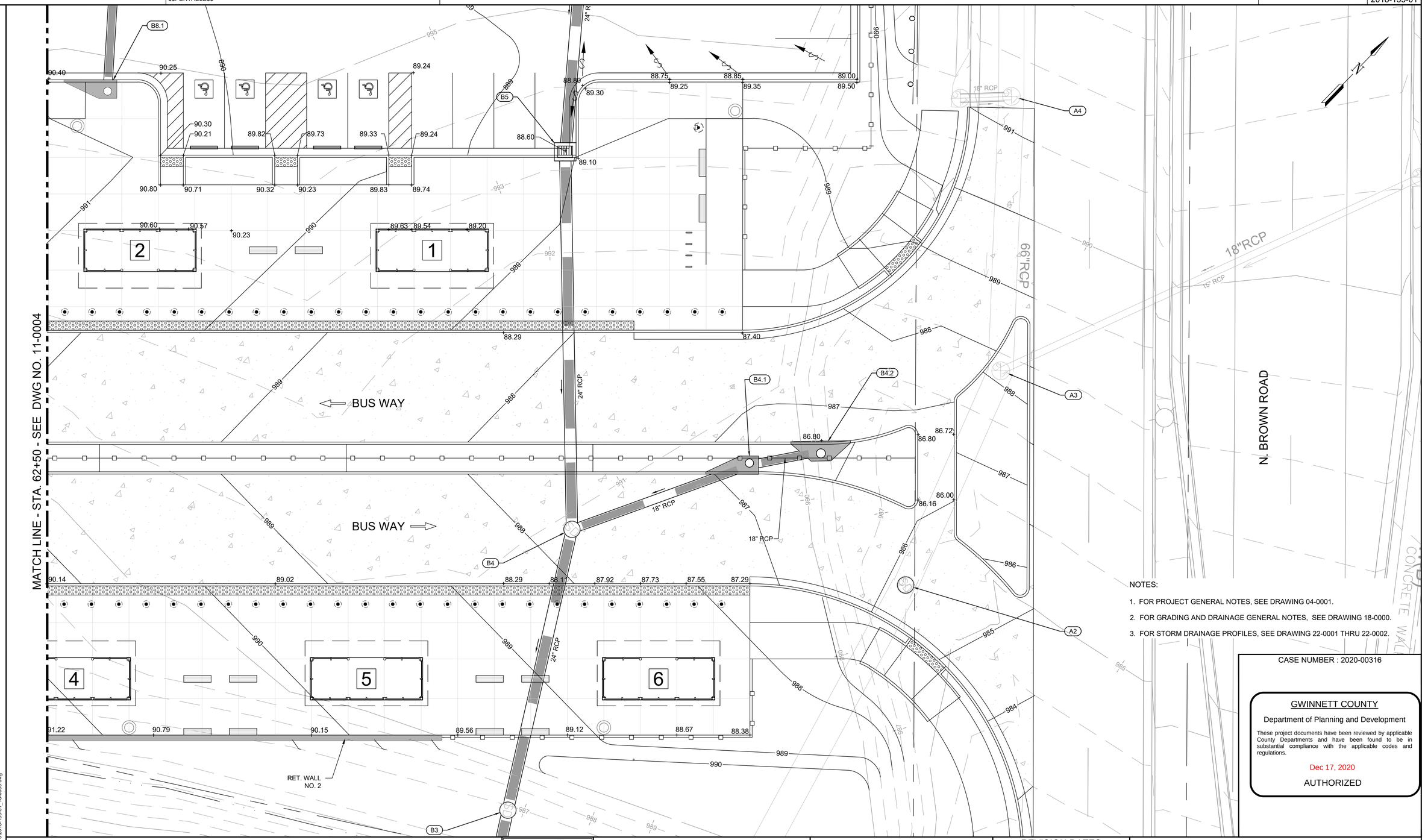
REVISION DATES

GRADING AND DRAINAGE PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	18-0002
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DATE$$$ Nov 18, 2020 - 6:34am TIME$$$ $PRF8$ DGN P.I. No. 2018-135-01
$USER$ C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_18-0000.dwg $$PENTABLE$$



NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARLINS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

GRADING AND DRAINAGE PLAN
ENLARGED PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

Nov 18, 2020 - 6:34am
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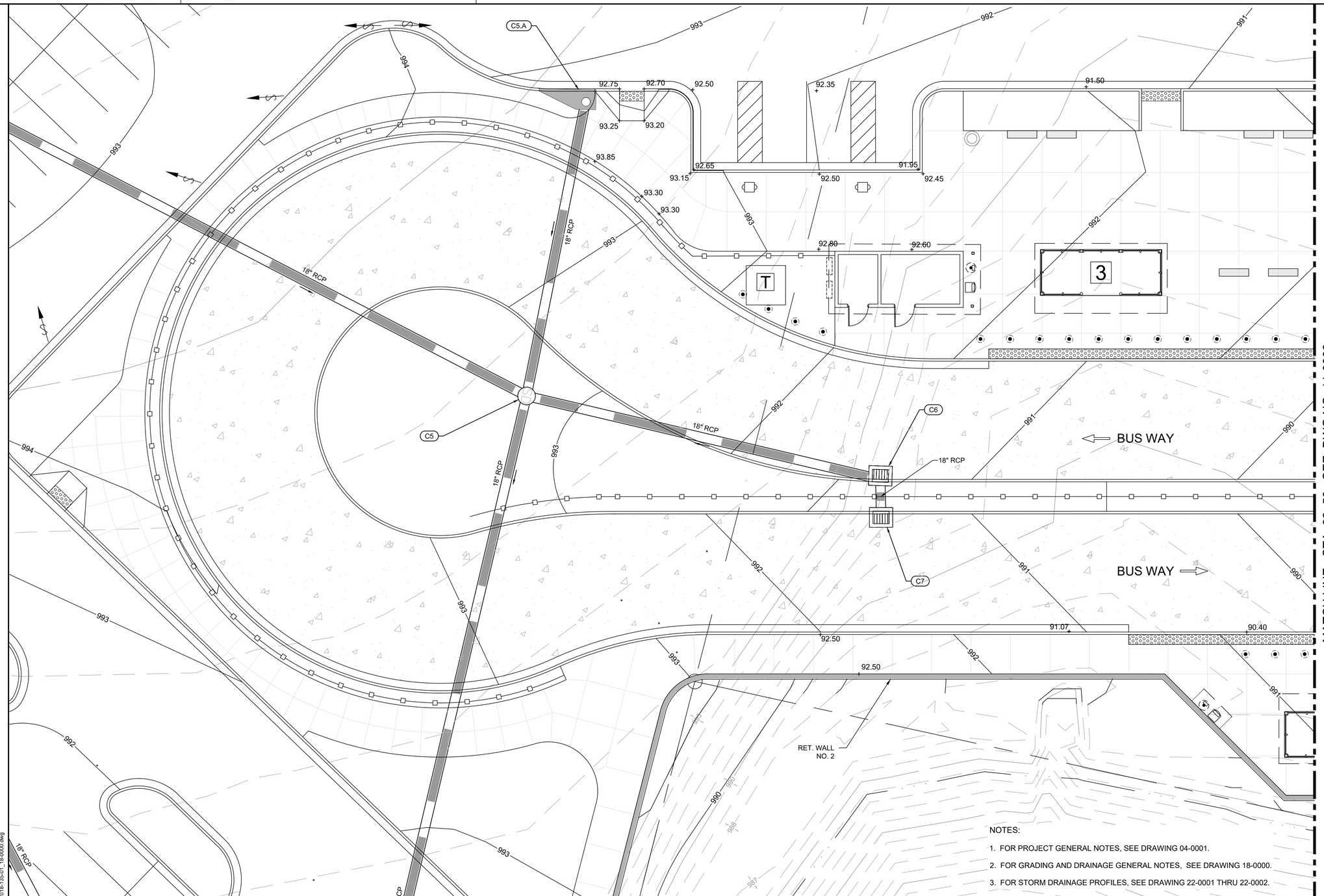

NOTES:

1. FOR PROJECT GENERAL NOTES, SEE DRAWING 04-0001.
2. FOR GRADING AND DRAINAGE GENERAL NOTES, SEE DRAWING 18-0000.
3. FOR STORM DRAINAGE PROFILES, SEE DRAWING 22-0001 THRU 22-0002.

CASE NUMBER : 2020-00316

GWINNETT COUNTY

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Dec 17, 2020

AUTHORIZED

No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNGES

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Expiration Date 06/30/2022

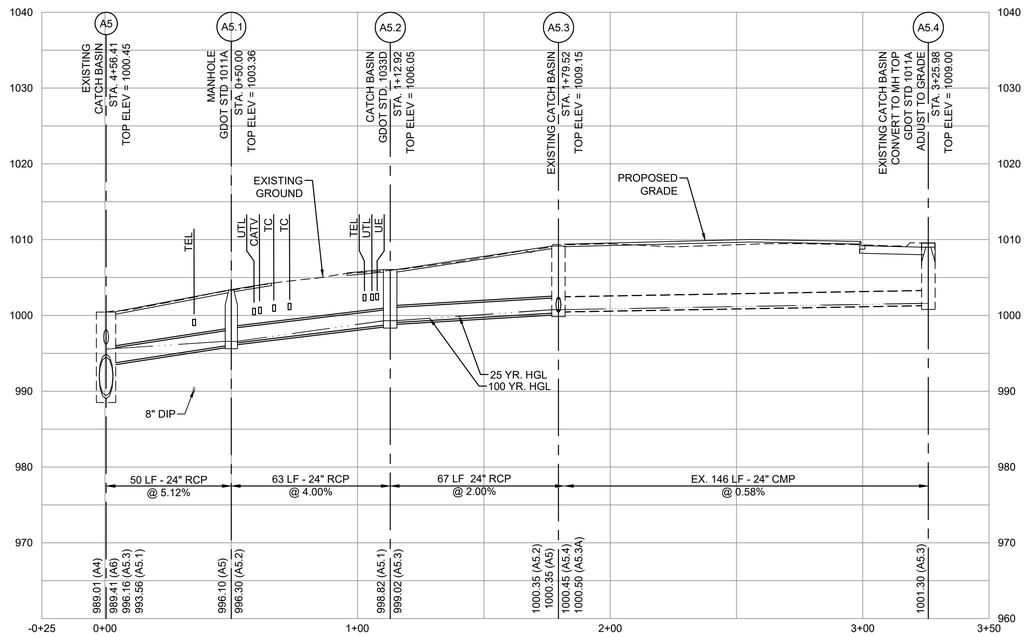
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

REVISION DATES

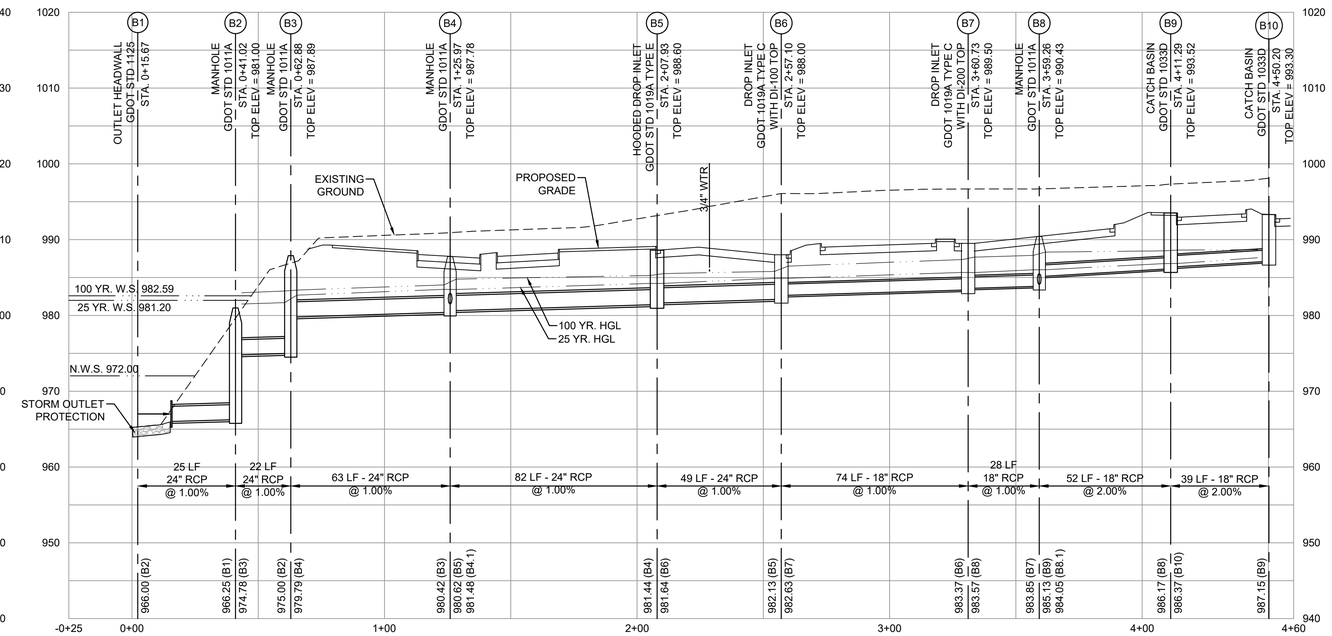
GRADING AND DRAINAGE PLAN
ENLARGED PLAZA AREA

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

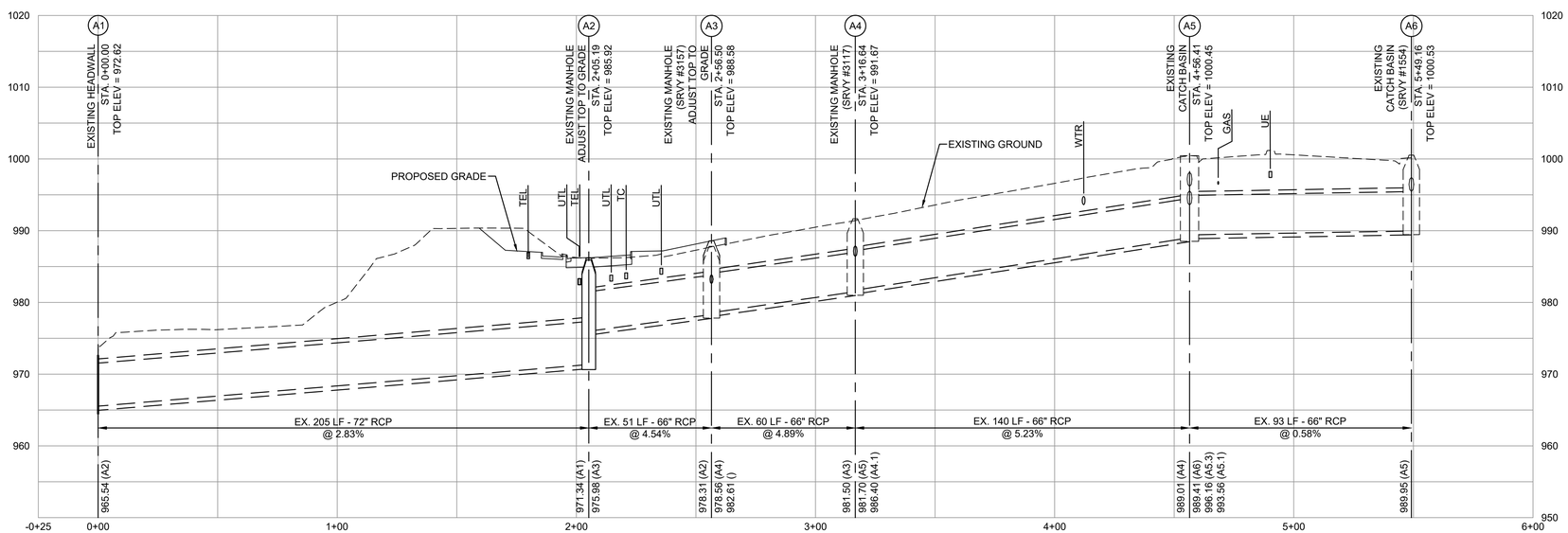
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	18-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	



STORM LINE A5



STORM LINE B



STORM A EXISTING

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
3. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.
4. FOR 25 YR. PIPE CHART, SEE DRAWING 22-0003.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

PROFESSIONAL ENGINEER No. 21371 GEORGE N. KAKUNDES 11/20/2020

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Expiration Date 06/30/2022

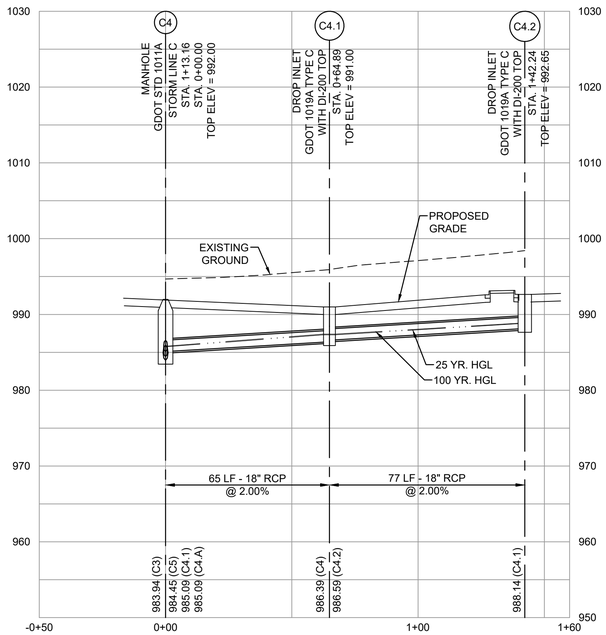
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

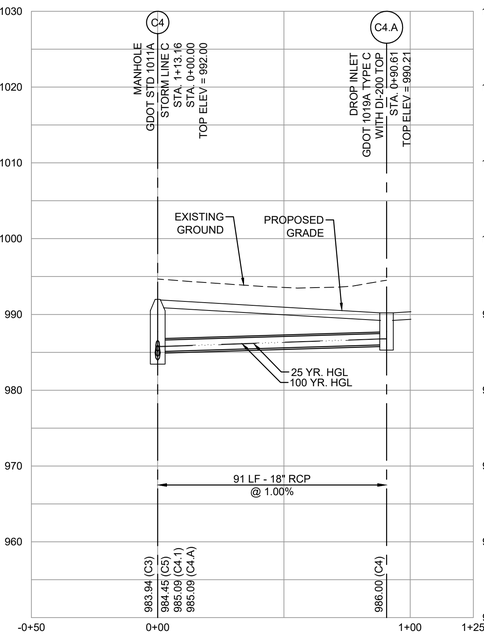
DRAINAGE PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

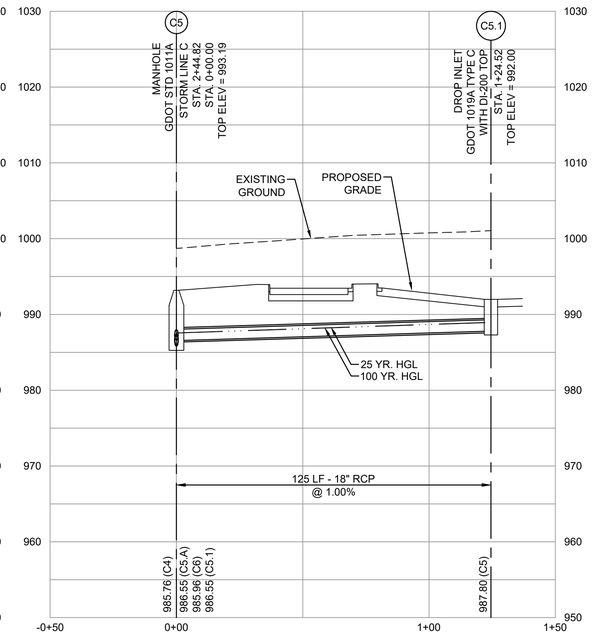
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



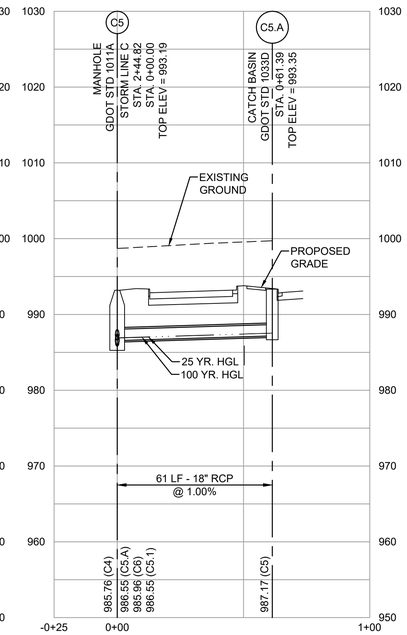
STORM LINE C4



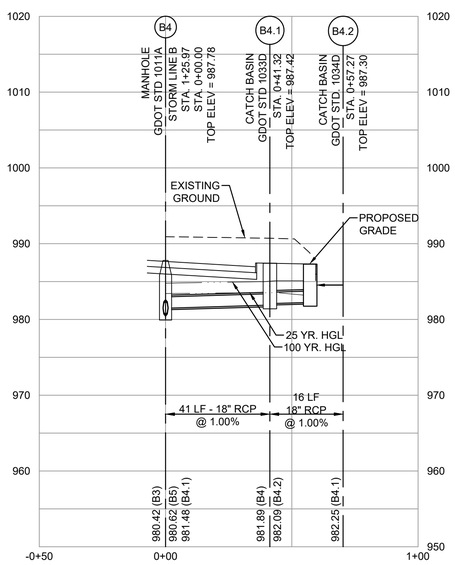
STORM LINE C4.A



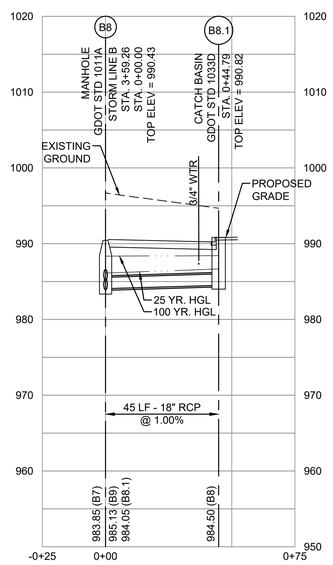
STORM LINE C5



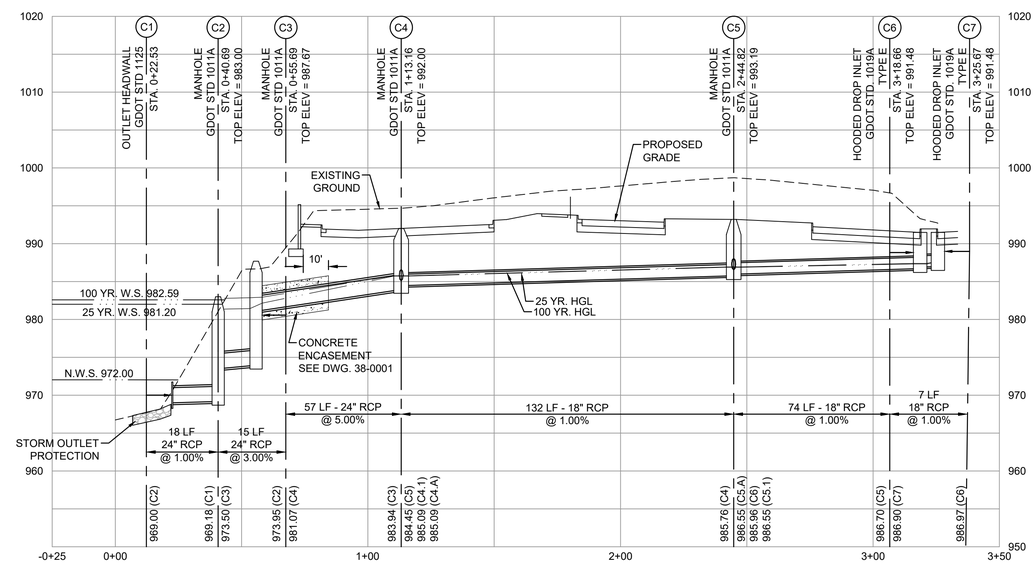
STORM LINE C5.A



STORM LINE B4



STORM LINE B8



STORM LINE C

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
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4. FOR 25 YR. PIPE CHART, SEE DRAWING 22-0003.

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

ATKINS

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HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

DRAINAGE PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

25 YEAR STORM EVENT PIPE CHART

LineID	Upstream Structure Type	Drainage Area (ac)	Total Area (ac)	Runoff Coeff (C)	Rainfall Intensity I, (in/hr)	Incr. CxA	Total CxA	Incr Q (cfs)	Flow Rate (cfs)	Capacity Full (cfs)	Line Size (in)	Pipe Material	n-value	Length (ft)	Slope (%)	Invert Up (ft)	Invert Dn (ft)	HGL Up (ft)	HGL Dn (ft)	Grn/Rim Elev Up (ft)	Velocity (ft/s)
Stormline A																					
A5.1 -A5	Manhole	0.00	0.29	0.00	0.00	0	0.24	0.00	1.85	51.19	24	RCP	0.013	49.591	5.12	996.10	993.56	996.57 j	995.56	1003.36	3.28
A5.2 - A5.1	Catch Basin	0.10	0.29	0.85	9.34	0.09	0.24	0.79	1.92	45.27	24	RCP	0.013	62.916	4.01	998.82	996.30	999.30	996.58	1006.05	3.31
A5.3 - A5.2	Ex Catch Basin	0.10	0.19	0.80	9.34	0.08	0.15	0.78	1.31	31.96	24	RCP	0.013	66.608	2.00	1000.35	999.02	1000.75	999.30	1009.15	2.99
A5.3A-A5.3	Ex Hooded Drop Inlet	0.09	0.09	0.77	9.34	0.07	0.07	0.65	0.65	0.00	24	CMP	0.013	34.946	-0.09	1000.47	1000.50	1000.95	1000.78	1009.67	1.13
Stormline B																					
B2 - B1	Manhole	0.00	2.75	0.00	0.00	0	2.18	0.00	17.99	22.46	24	RCP	0.013	25.352	0.99	966.25	966.00	981.36	981.20	981.00	5.73
B3 - B2	Manhole	0.00	2.75	0.00	0.00	0	2.18	0.00	18.02	22.69	24	RCP	0.013	21.865	1.01	975.00	974.78	981.58	981.44	987.89	5.73
B4 - B3	Manhole	0.00	2.75	0.00	0.00	0	2.18	0.00	18.10	22.60	24	RCP	0.013	63.092	1.00	980.42	979.79	981.95 j	981.65	987.65	7.01
B5 - B4	Hooded Drop Inlet	0.06	2.31	0.90	9.34	0.05	1.81	0.50	15.09	22.62	24	RCP	0.013	81.959	1.00	981.44	980.62	982.84	981.95	988.55	6.43
B6 - B5	Drop Inlet	0.73	2.25	0.84	9.34	0.61	1.75	5.70	14.70	22.58	24	RCP	0.013	49.167	1.00	982.13	981.64	983.51	982.84	988.00	6.36
B7 - B6	Drop Inlet	0.25	1.53	0.83	9.34	0.21	1.14	1.94	9.64	10.50	18	RCP	0.013	73.988	1.00	983.37	982.63	984.57	983.76	989.50	6.37
B8 - B7	Manhole	0.00	1.28	0.00	0.00	0	0.93	0.00	7.91	10.47	18	RCP	0.013	28.167	0.99	983.85	983.57	984.94	984.57	990.43	5.76
B9 - B8	Catch Basin	0.25	0.88	0.82	9.34	0.2	0.61	1.89	5.29	14.85	18	RCP	0.013	52.033	2.00	986.17	985.13	987.06	985.75	993.52	4.87
B10-B9	Catch Basin	0.63	0.63	0.64	8.82	0.4	0.4	3.55	3.55	14.87	18	RCP	0.013	38.913	2.00	987.15	986.37	987.87	987.06	993.30	4.25
B8.1 - B8	Catch Basin	0.40	0.40	0.82	8.58	0.33	0.33	2.81	2.81	10.53	18	RCP	0.013	44.795	1.00	984.50	984.05	985.14 j	984.94	990.82	3.94
B4.1 - B4	Catch Basin	0.00	0.44	0.00	0.00	0	0.38	0.00	3.51	10.46	18	RCP	0.013	41.323	0.99	981.89	981.48	982.60	982.08	987.42	4.23
B4.2 - B4.1	Catch Basin	0.44	0.44	0.86	9.34	0.38	0.38	3.52	3.52	10.52	18	RCP	0.013	15.946	1.00	982.25	982.09	982.97	982.69	987.30	4.23
Stormline C																					
C2 - C1	Manhole	0.00	2.71	0.00	0.00	0	2.04	0.00	16.23	22.52	24	RCP	0.013	18.161	0.99	969.18	969.00	981.29	981.20	983.00	5.17
C3 - C2	Manhole	0.00	2.71	0.00	0.00	0	2.04	0.00	16.25	39.18	24	RCP	0.013	15.000	3.00	973.95	973.50	981.43	981.36	987.67	5.17
C4 - C3	Manhole	0.00	2.71	0.00	0.00	0	2.04	0.00	16.32	50.63	24	RCP	0.013	57.465	5.01	983.95	981.07	985.41	981.85	992.00	6.66
C5 - C4	Manhole	0.00	1.50	0.00	0.00	0	1.02	0.00	8.25	10.47	18	RCP	0.013	131.661	0.99	985.76	984.45	986.87	985.45	993.19	5.88
C6 - C5	Hooded Drop Inlet	0.17	0.36	0.78	9.34	0.13	0.28	1.22	2.63	10.51	18	RCP	0.013	73.837	1.00	986.70	985.96	987.31 j	986.87	991.48	3.86
C7 - C6	Hooded Drop Inlet	0.19	0.19	0.80	9.34	0.15	0.15	1.42	1.42	10.49	18	RCP	0.013	7.013	1.00	986.97	986.90	987.42	987.31	991.48	3.22
C4.1 - C4	Drop Inlet	0.37	0.75	0.89	9.34	0.33	0.62	3.08	5.65	14.86	18	RCP	0.013	64.894	2.00	986.39	985.09	987.31	985.73	991.00	5.00
C4.2 - C4.1	Drop Inlet	0.38	0.38	0.76	9.34	0.29	0.29	2.72	2.72	14.87	18	RCP	0.013	77.343	2.00	988.14	986.59	988.77 j	987.31	992.65	3.90
C5.A - C5	Drop Inlet	0.13	0.13	0.74	8.58	0.1	0.1	0.83	0.83	10.55	18	RCP	0.013	61.394	1.01	987.17	986.55	987.51	986.87	993.35	2.77
C5.1 - C5	Catch Basin	1.02	1.02	0.63	8.58	0.64	0.64	5.49	5.49	10.52	18	RCP	0.013	124.518	1.00	987.80	986.55	988.70	987.32	992.00	4.94
C4.A - C4	Drop Inlet	0.46	0.46	0.87	9.34	0.4	0.4	3.72	3.72	10.52	18	RCP	0.013	90.613	1.00	986.00	985.09	986.74	985.71	990.21	4.31

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
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CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

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REVISION DATES

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

ATKINS
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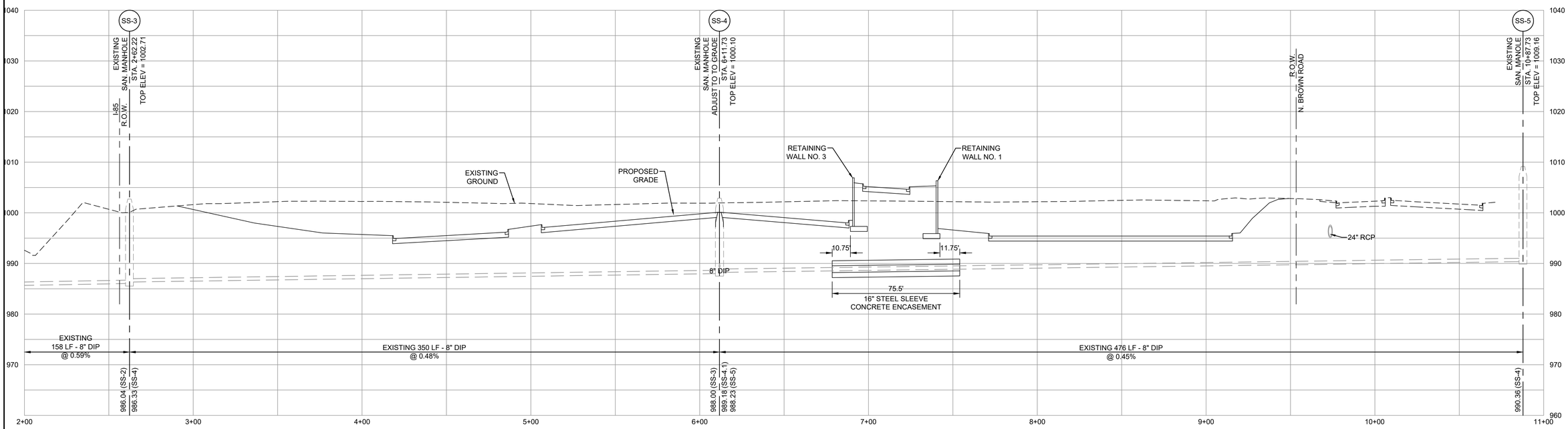
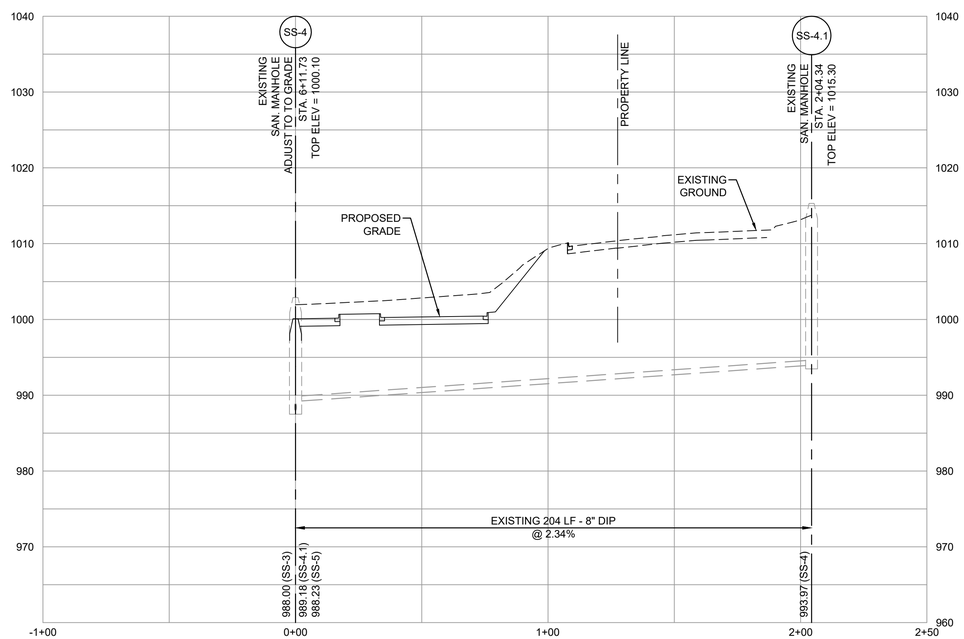
...NAGE PIPE CHART

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



SANITARY



SANITARY 4.1

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

SANITARY SEWER NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.

GEORGE N. KAKUNDES No. 21371 PROFESSIONAL ENGINEER 11/20/2020

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

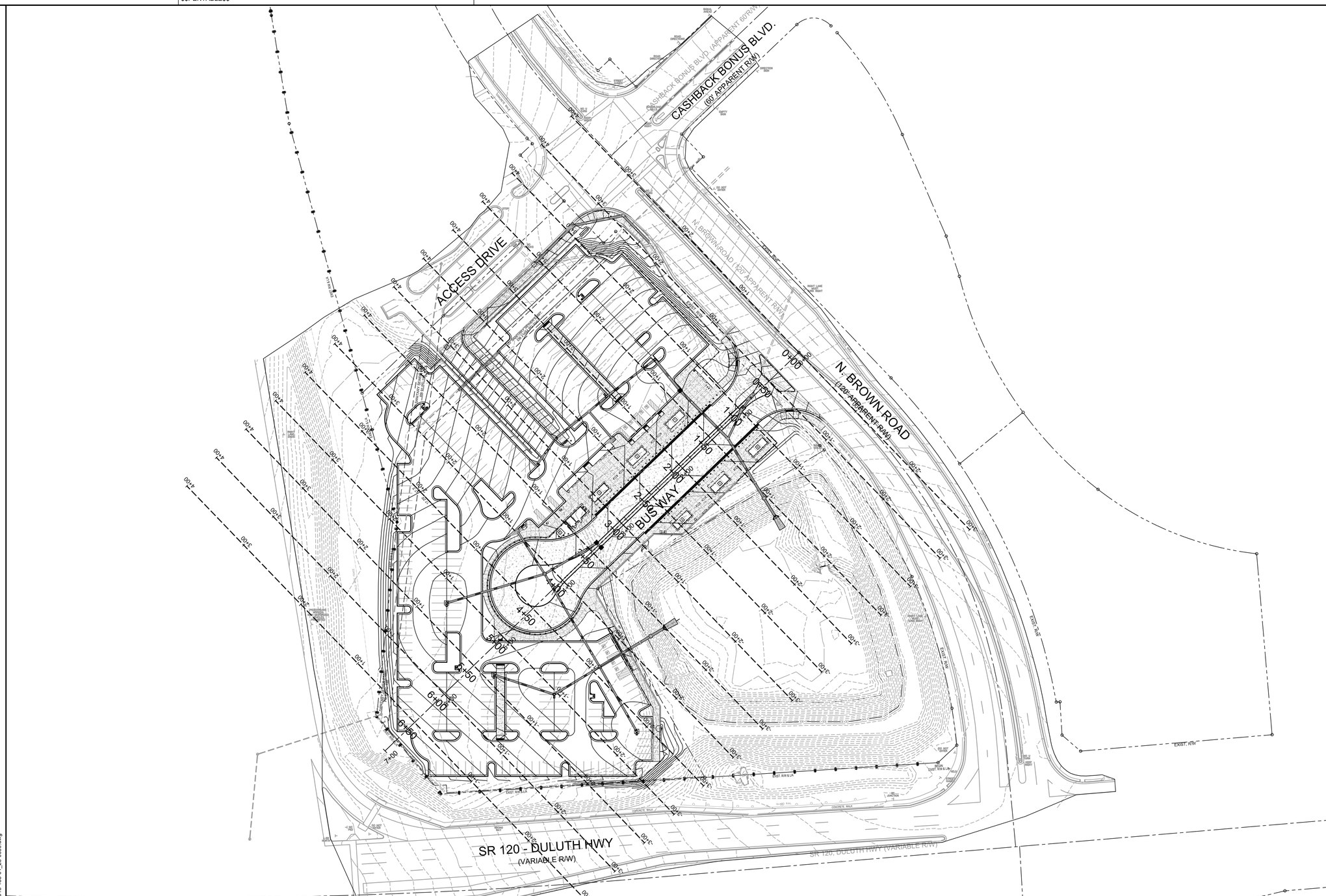
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

SANITARY SEWER PROFILES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	22-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	



CASE NUMBER : 2020-00316

GWINNETT COUNTY

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Dec 17, 2020

AUTHORIZED

No. 21371
PROFESSIONAL
11/20/2020
ENGINEER
GEORGE N. KAKUNIS

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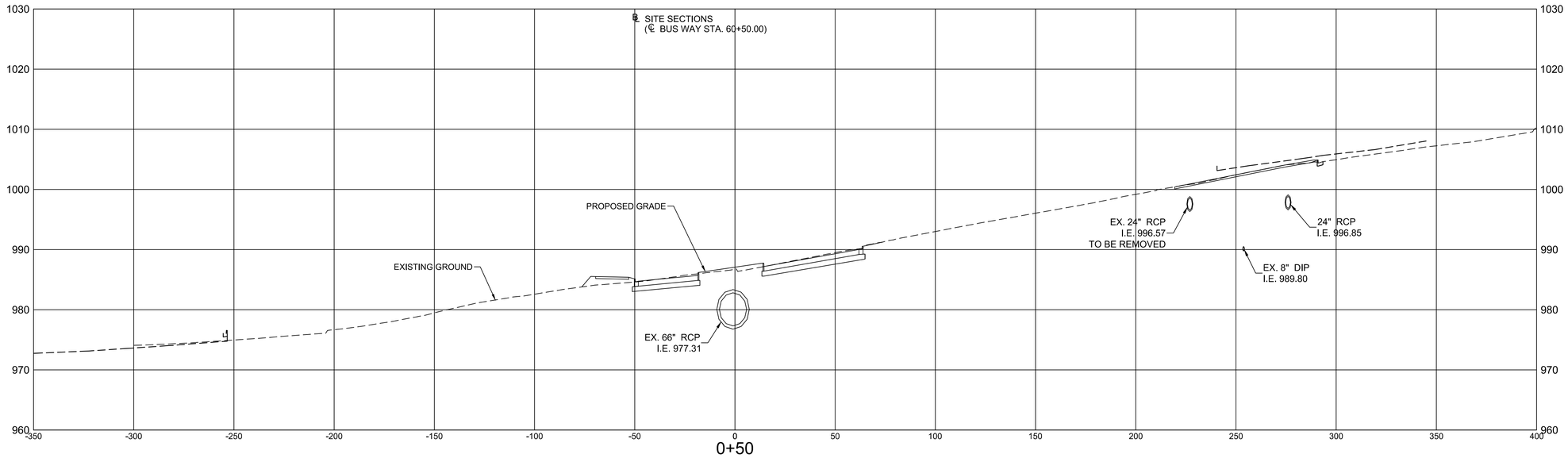
60 30 0 60 120
(IN FEET)
1 inch = 60 ft.

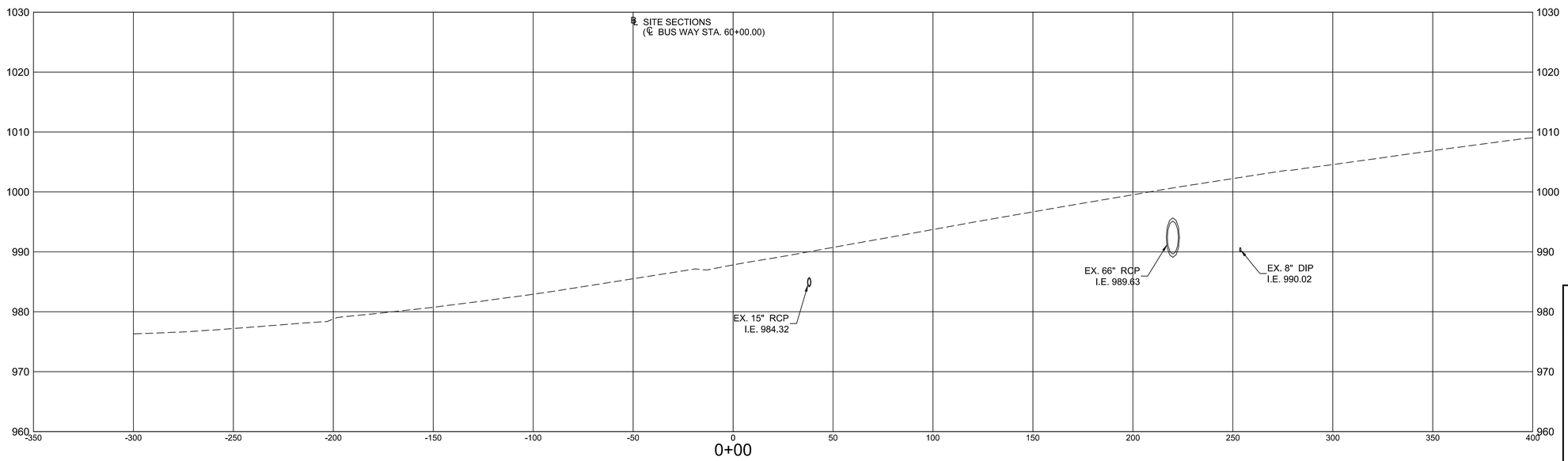
REVISION DATES

OVERALL SITE CROSS SECTION LAYOUT

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0000
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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AUTHORIZED

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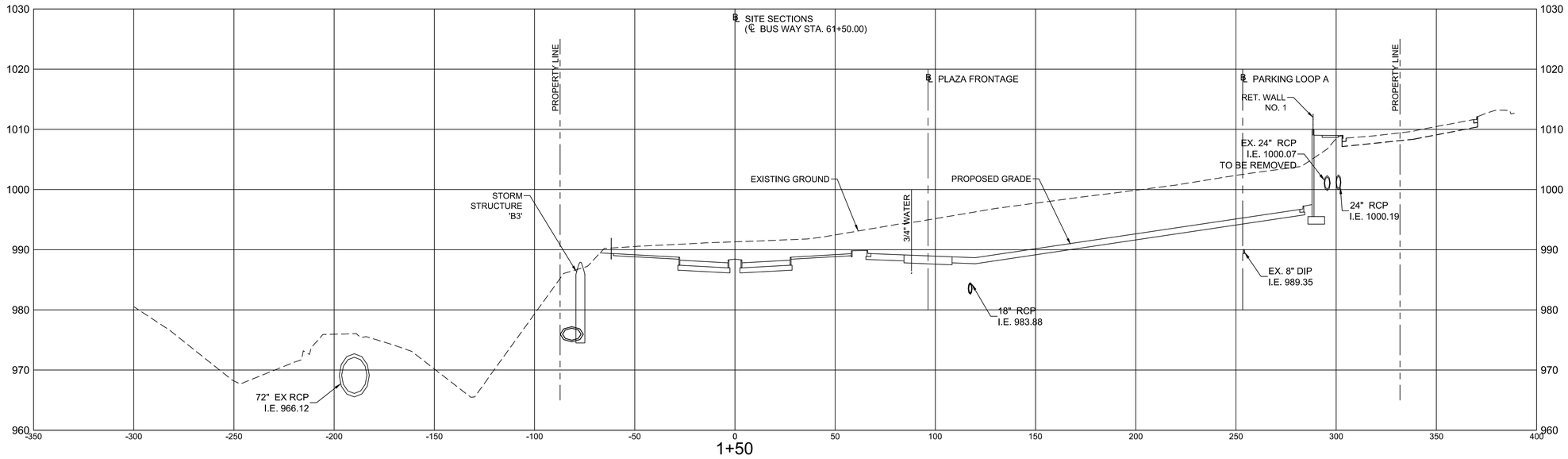
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

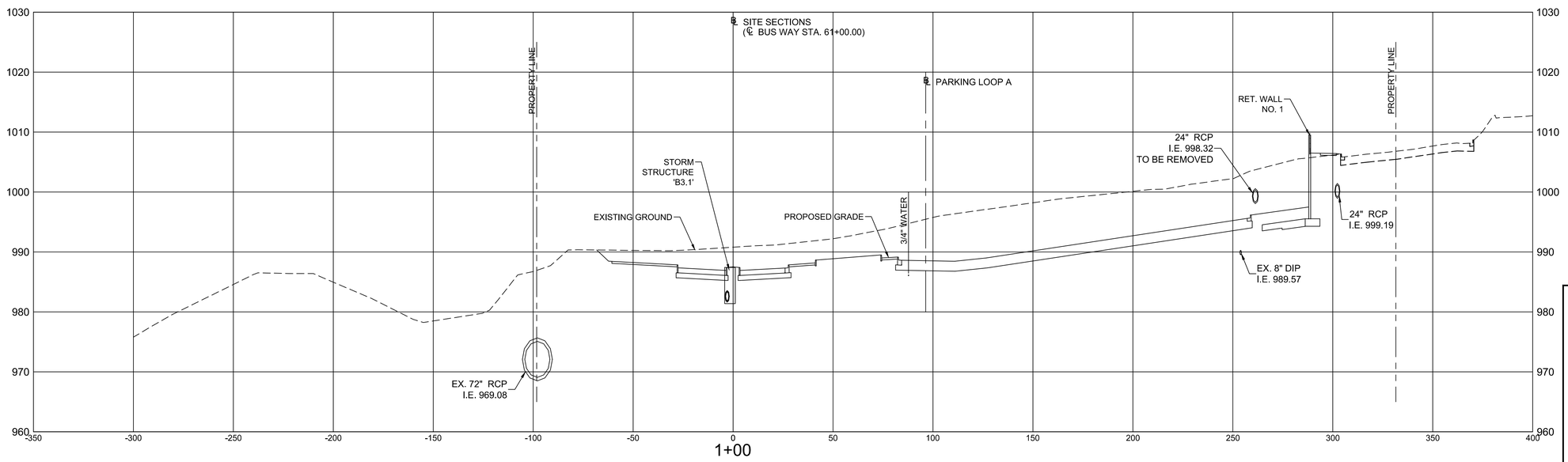
REVISION DATES

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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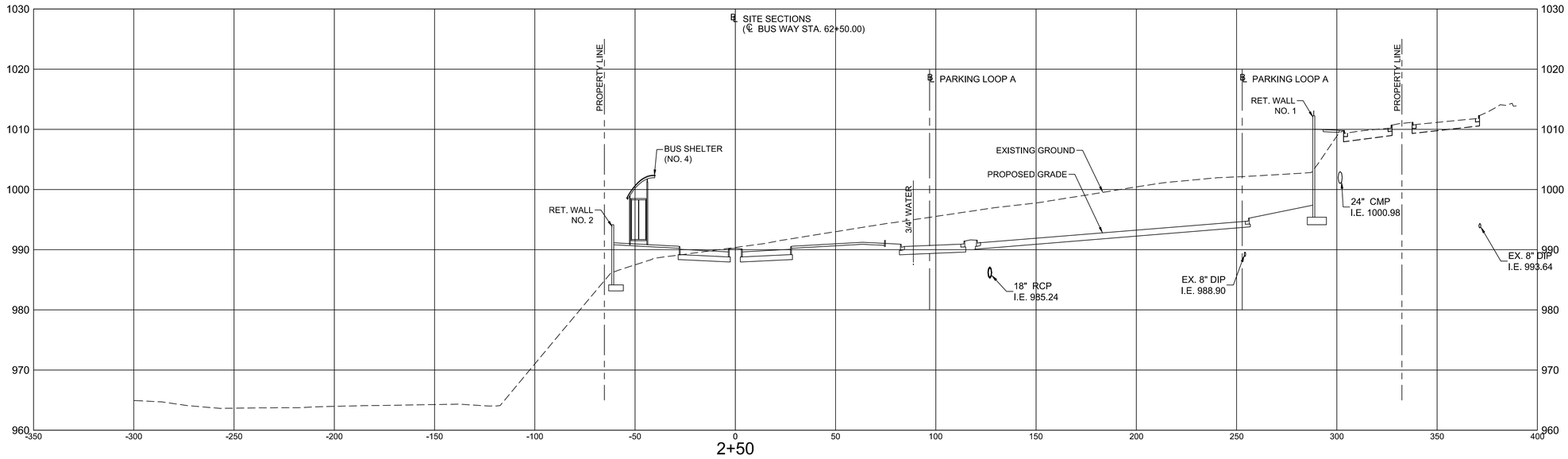
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

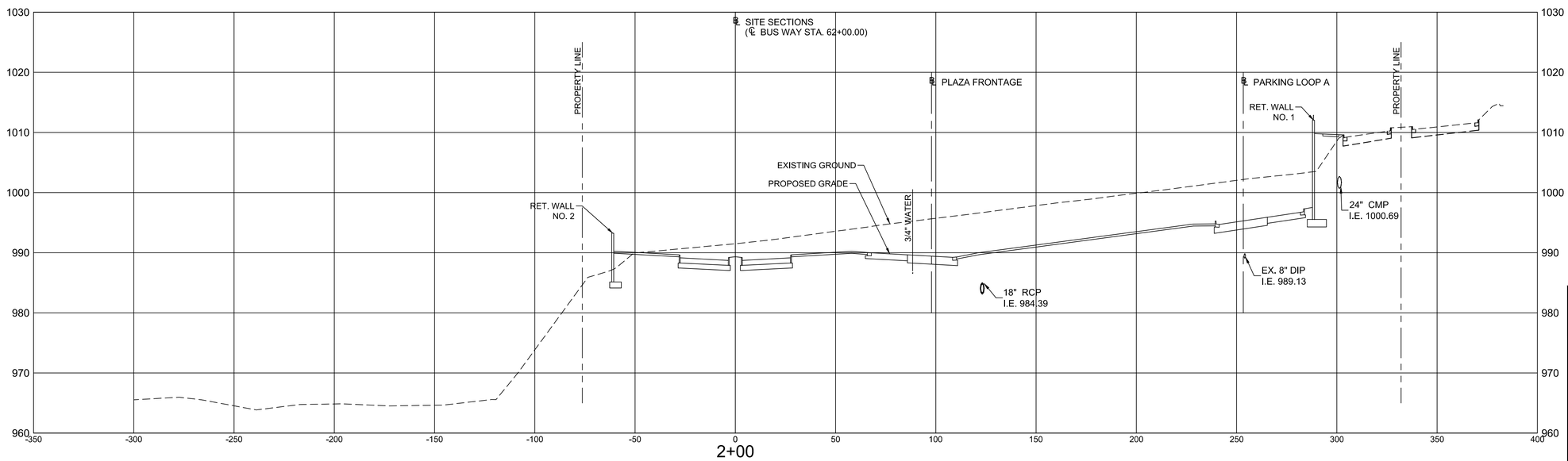
REVISION DATES

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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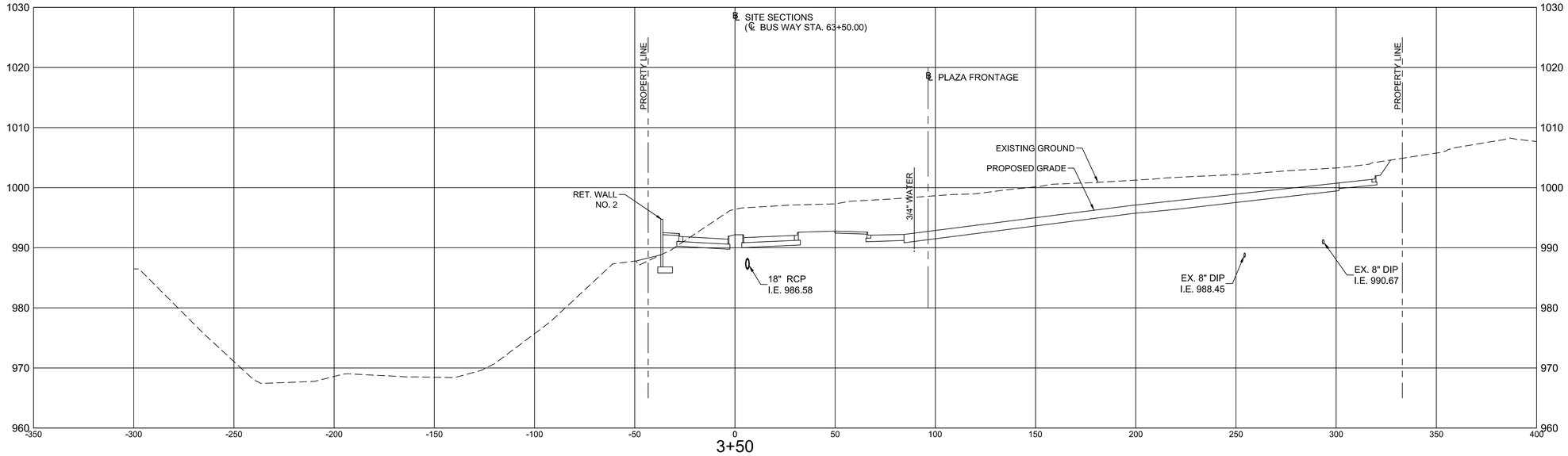
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



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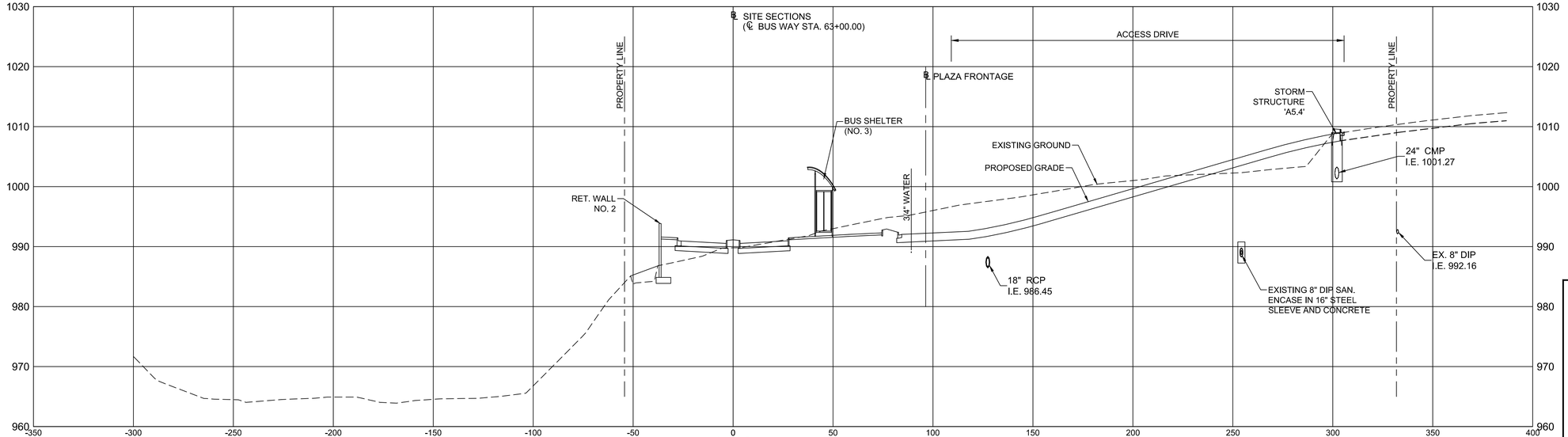

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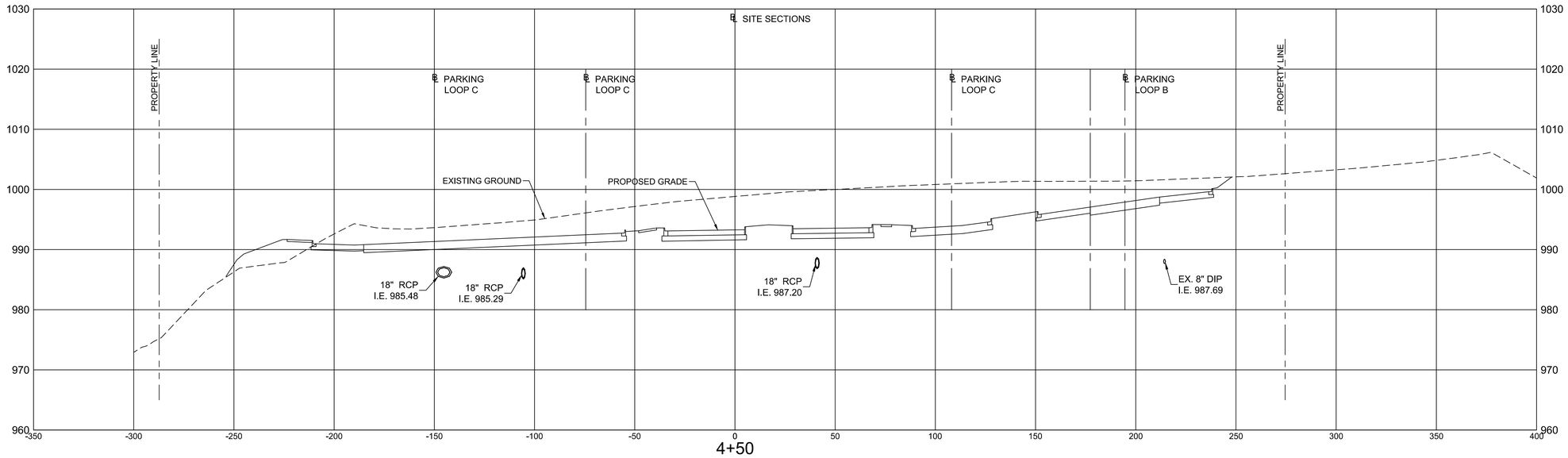
VERT. 10 5 0 10 20
SCALE IN FEET

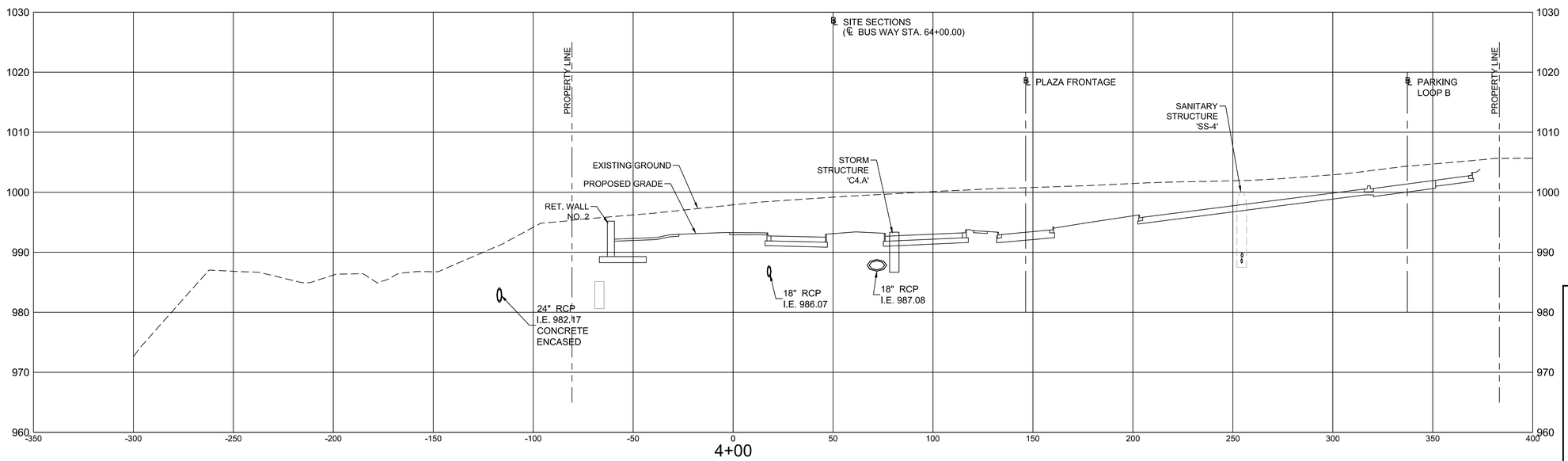
REVISION DATES

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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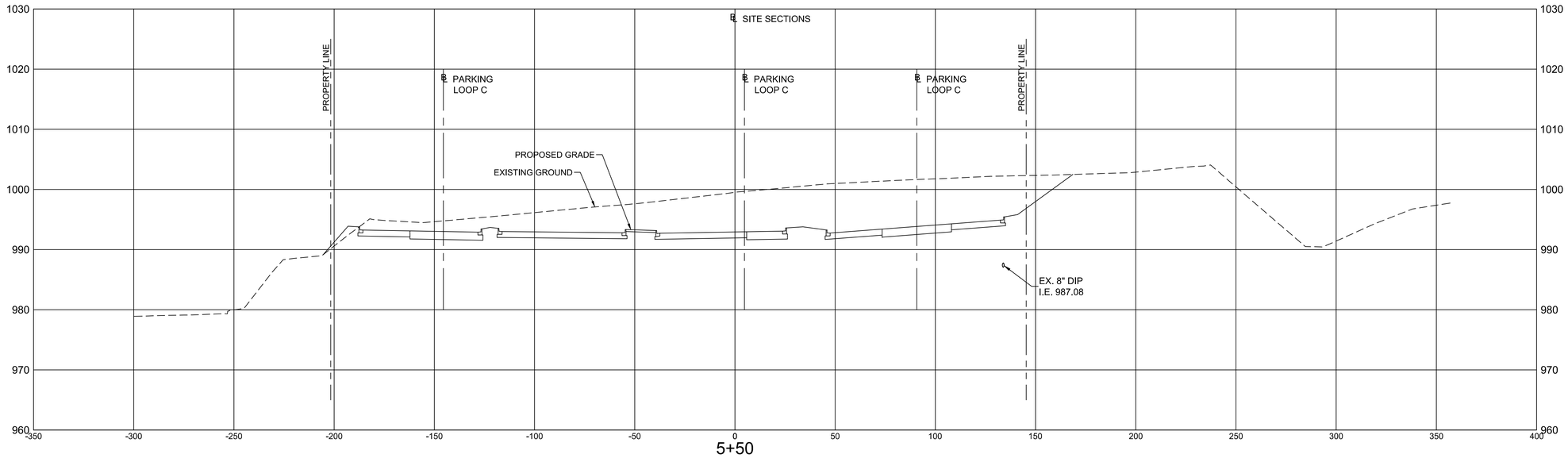
VERT. 10 5 0 10 20
SCALE IN FEET

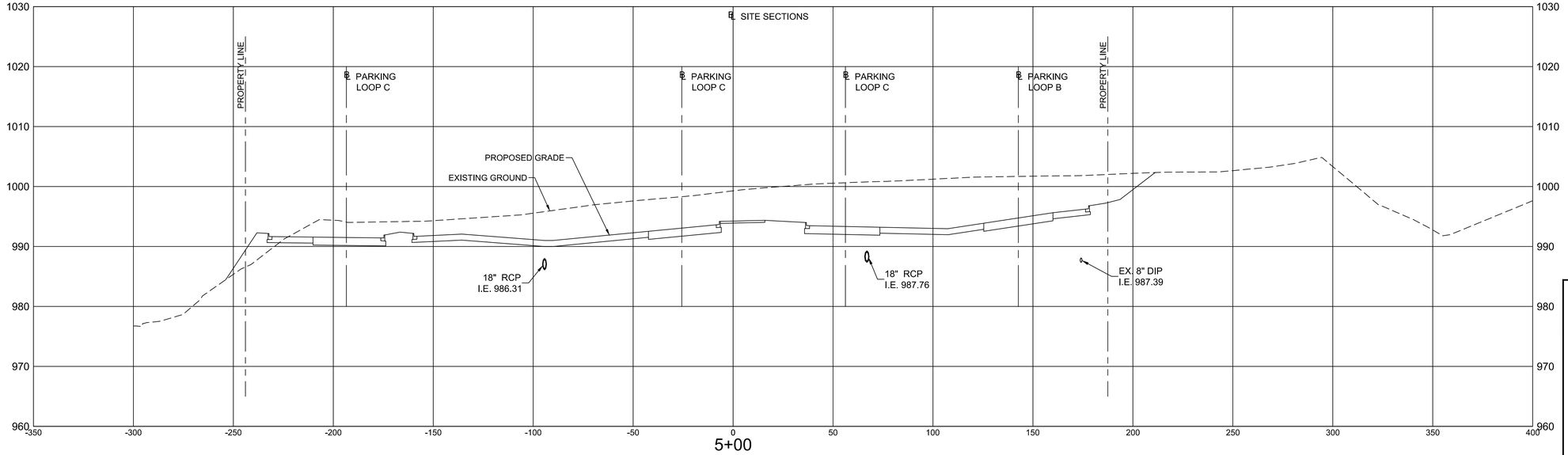
REVISION DATES

SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		





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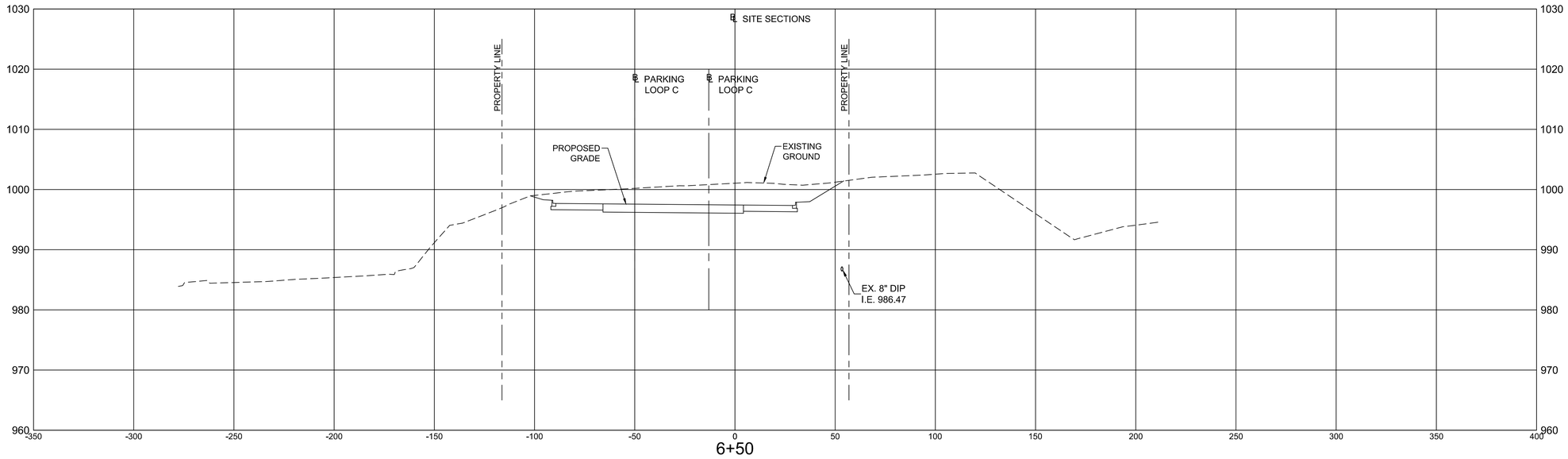
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

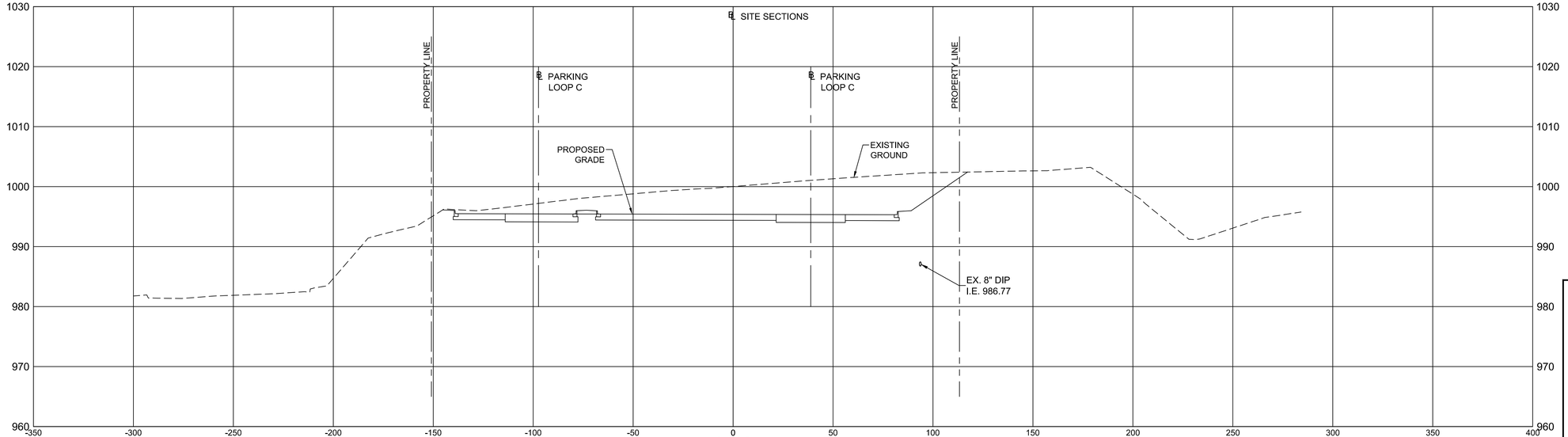
SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		



6+50



6+00

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GWINNETT COUNTY

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Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

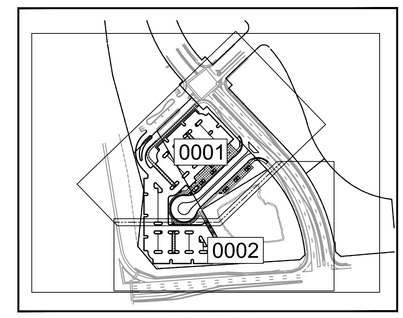
SITE CROSS SECTIONS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GENERAL UTILITY NOTES:

1. FOR GENERAL PROJECT NOTES, REFER TO DRAWING 04-0001 and 04-0002.
2. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION TO AVOID ANY CONFLICTS DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.
5. FOR STORM DRAINAGE LAYOUT INFORMATION, REFER TO DRAWING NO. 18-0000 THRU 18-0002, FOR PROFILES, REFER TO DRAWING NO. 22-0001 THRU 22-0002.
6. FOR SITE LIGHTING AND ELECTRICAL INFORMATION, REFER TO DRAWINGS 25-0000 THRU 25-0007.
7. FOR CCTV INFORMATION, REFER TO DRAWING NO. 28-0003 THRU 28-0013.
8. THIS SITE HAS NO DUMPSTER PAD.
9. REFER TO DRAWINGS 24-0001 THRU 24-0002 FOR DETAILED CALL OUT OF UTILITIES SHOWN.



KEY MAP

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

UTILITY PLAN LEGEND

PROPOSED WATER LINE	W
PROPOSED ELECTRIC	E
PROPOSED COMMINCATIONS	T
PROPOSED LIGHTING CIRCUIT	L
PROPOSED POWER CIRCUIT	P
PROPOSED COMMUNICATION CIRCUIT	F
PROPOSED FIBER OPTIC CONDUIT	FO
PROPOSED TELEPHONE CONDUIT	

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE	
PROPOSED FIRE HYDRANT	
PROPOSED WATER VALVE	
PROPOSED PULL BOX	PB
PROPOSED EMERGENCY CALL BOX	

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

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Expiration Date 06/30/2022

60 30 0 60 120

(IN FEET)
1 inch = 60 ft.

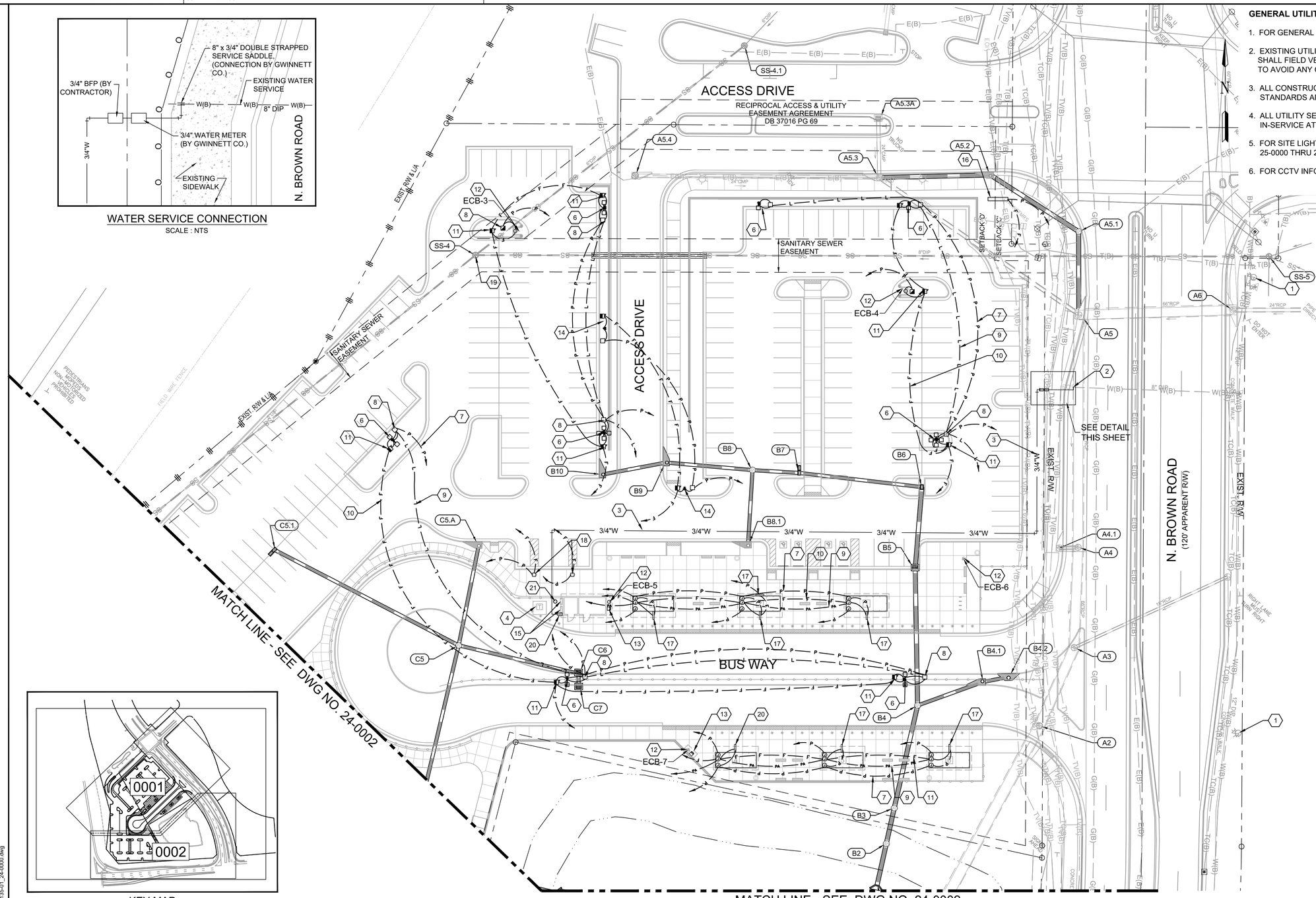
REVISION DATES

OVERALL UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	24-0000
CORRECTED:		DATE:	
VERIFIED:		DATE:	

WATER SERVICE CONNECTION
SCALE : NTS



GENERAL UTILITY NOTES:

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3. ALL CONSTRUCTION SHALL CONFORM TO GDOT AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
4. ALL UTILITY SERVICES TO ADJOINING PROPERTIES SHALL REMAIN IN-SERVICE AT ALL TIMES.
5. FOR SITE LIGHTING AND ELECTRICAL INFORMATION, REFER TO DRAWINGS 25-0000 THRU 25-0007.
6. FOR CCTV INFORMATION, REFER TO DRAWING NO. 28-0003 THRU 28-0013.

UTILITY PLAN KEY NOTES

1. EXISTING FIRE HYDRANT
2. 3/4" WATER VALVE (CONNECTION BY GWINNETT COUNTY)
3. 3/4" COPPER SERVICE LINE
4. ELECTRIC TRANSFORMER
5. LIGHT POLE
6. LIGHT POLE W/ CAMERA (CAMERA BY OTHERS)
7. ELECTRICAL SERVICE CONDUIT
8. ELECTRIC PULL BOX
9. LIGHTING CIRCUIT CONDUIT
10. FIBER OPTIC CONDUIT
11. FIBER OPTIC PULL BOX
12. EMERGENCY TELEPHONE CALL BOX
13. BREEZE CARD (BY OTHERS)
14. LICENSE PLATE READER CAMERA (BY OTHERS)
15. CONDENSING UNITS
16. CMS ENTRY SIGN
17. CMS SIGN
18. EV CHARGING STATION (BY OTHERS)
19. SANITARY MANHOLE, ADJUST TO GRADE
20. WATER SERVICE CONNECTION, REFER TO MECH. PLAN 37-3101 FOR ADDITION INFORMATION
21. CONDENSATE DRYWELL, REFER TO MECH. PLAN 37-3101 AND 37-3105 FOR ADDITION INFORMATION

UTILITY PLAN LEGEND

- 3/4"W — PROPOSED WATER LINE
- L — PROPOSED LIGHTING CIRCUUIT
- P — PROPOSED POWER CONDUIT
- F — PROPOSED COMMUNICATION CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED EMERGENCY CALL BOX

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development

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Dec 17, 2020
AUTHORIZED

KEY MAP

MATCH LINE - SEE DWG NO. 24-0002

UTILITY PLAN LEGEND

PROPOSED WATER LINE	W
PROPOSED ELECTRIC	E
PROPOSED COMMINCATIONS	T
PROPOSED LIGHTING CIRCUIT	L
PROPOSED POWER CIRCUIT	P
PROPOSED COMMUNICATION CIRCUIT	F
PROPOSED FIBER OPTIC CONDUIT	FO
PROPOSED TELEPHONE CONDUIT	

UTILITY PLAN LEGEND

- PROPOSED LIGHT POLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED PULL BOX (PB)
- PROPOSED EMERGENCY CALL BOX

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARLINS

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

REVISION DATES

UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

KEY MAP

UTILITY PLAN KEY NOTES

1. EXISTING FIRE HYDRANT
2. 3/4" WATER VALVE (INSTALLATION BY GWINNETT COUNTY)
3. 3/4" COPPER SERVICE LINE
4. ELECTRIC TRANSFORMER
5. LIGHT POLE
6. LIGHT POLE W/ CAMERA (CAMERA BY OTHERS)
7. ELECTRICAL SERVICE CONDUIT
8. ELECTRIC PULL BOX
9. LIGHTING CIRCUIT CONDUIT
10. FIBER OPTIC CONDUIT
11. FIBER OPTIC PULL BOX
12. EMERGENCY TELEPHONE CALL BOX
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18. EV CHARGING STATION (BY OTHERS)
19. SANITARY MANHOLE, ADJUST TO GRADE
20. WATER SERVICE CONNECTION, REFER TO MECH. PLAN 37-3101 FOR ADDITION INFORMATION
21. CONDENSATE DRYWELL, REFER TO MECH. PLAN 37-3101 AND 37-3105 FOR ADDITION INFORMATION

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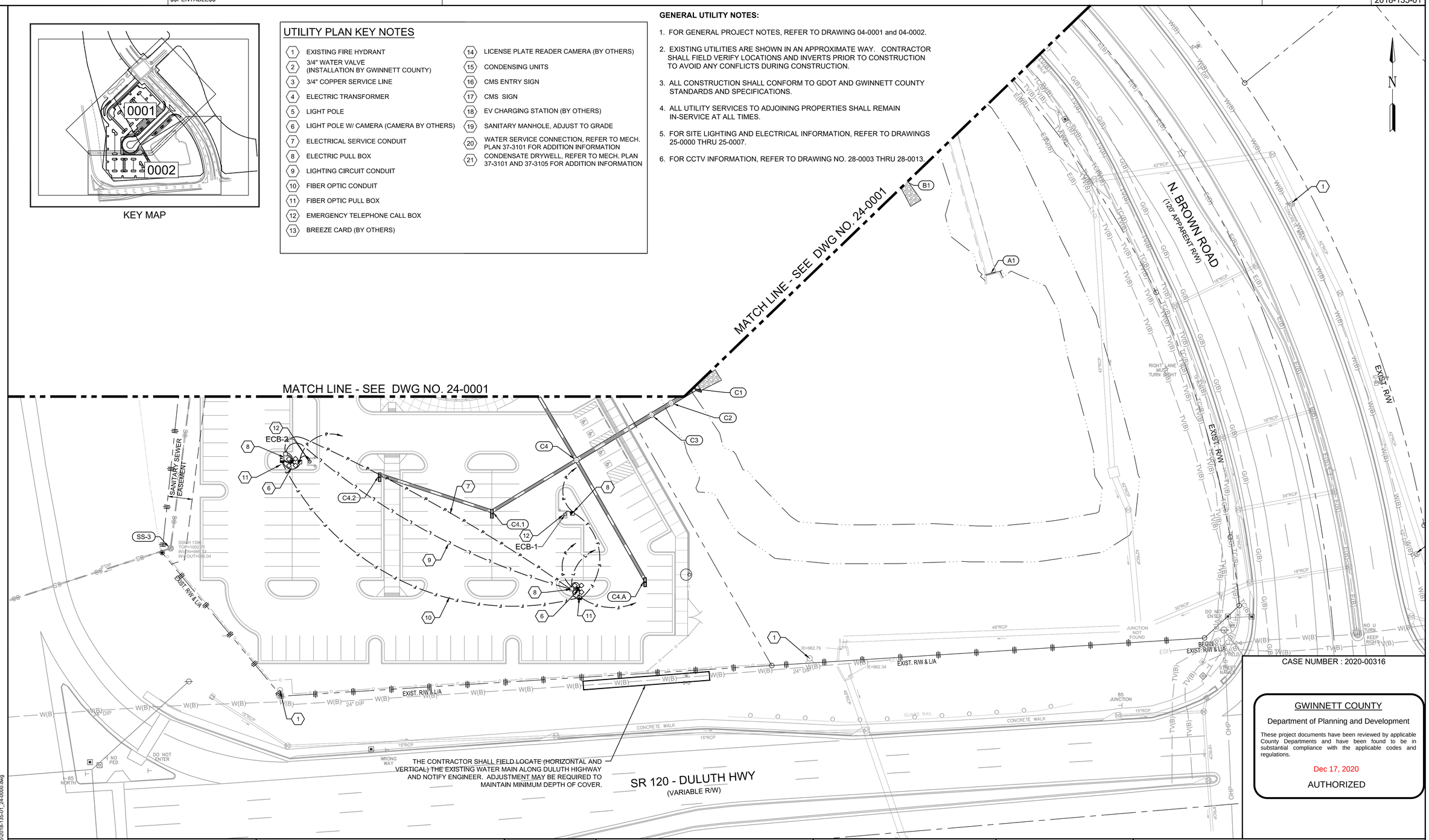


CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Dec 17, 2020

AUTHORIZED

UTILITY PLAN LEGEND

PROPOSED WATER LINE	W
PROPOSED ELECTRIC	E
PROPOSED COMMINCATIONS	T
PROPOSED LIGHTING CIRCUIT	L
PROPOSED POWER CIRCUIT	P
PROPOSED COMMUNICATION CIRCUIT	F
PROPOSED FIBER OPTIC CONDUIT	FO
PROPOSED TELEPHONE CONDUIT	

UTILITY PLAN LEGEND

PROPOSED LIGHT POLE
PROPOSED FIRE HYDRANT
PROPOSED WATER VALVE
PROPOSED PULL BOX (PB)
PROPOSED EMERGENCY CALL BOX

STATE OF GEORGIA
No. 21371
PROFESSIONAL ENGINEER
11/20/2020
GEORGE N. KAKUNDES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

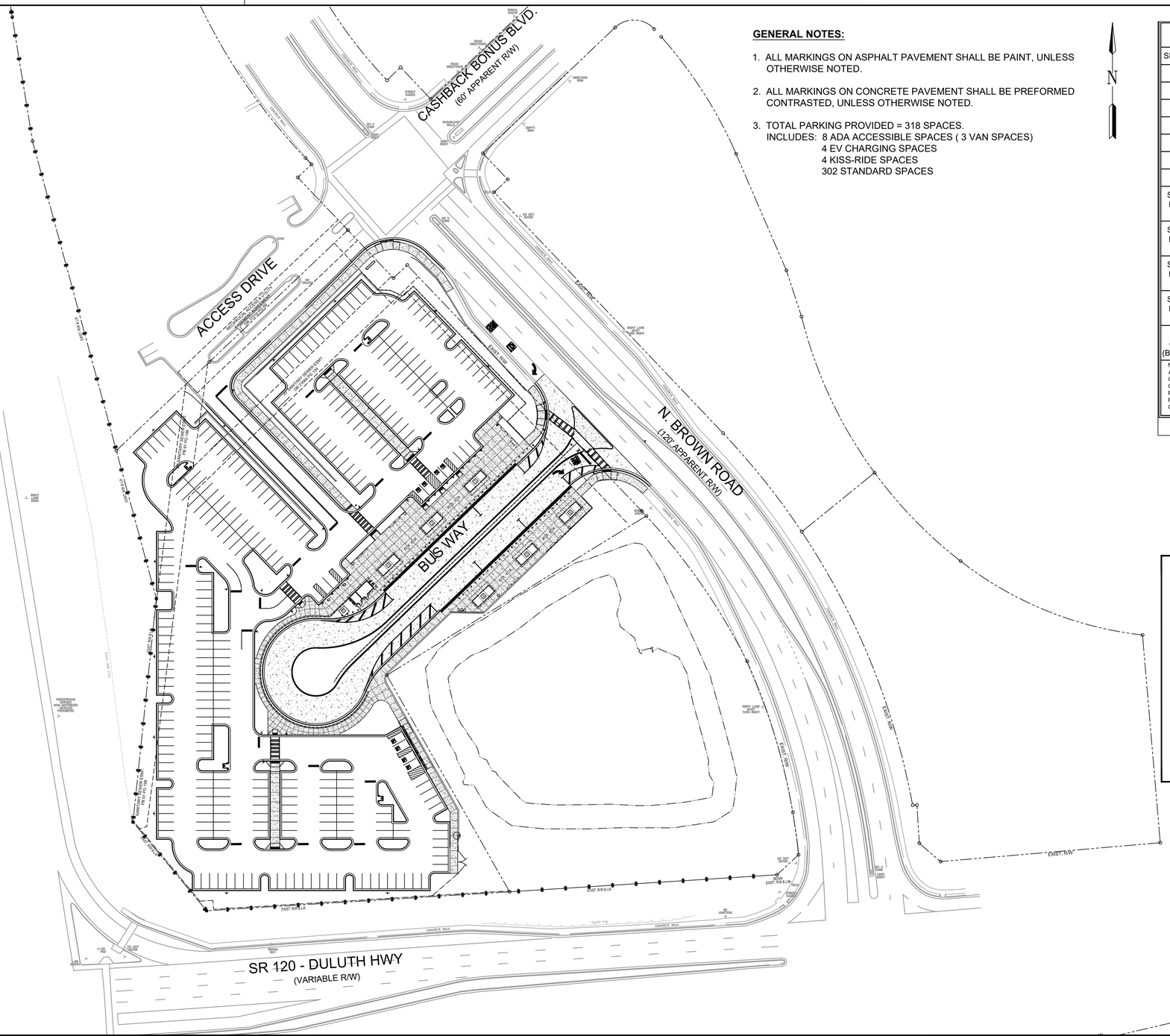
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES

UTILITY PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



GENERAL NOTES:

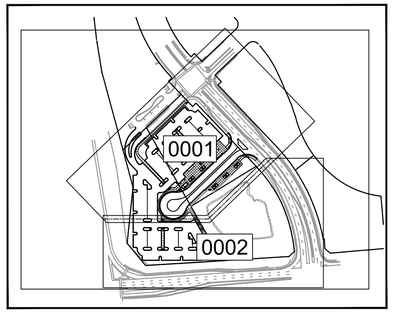
1. ALL MARKINGS ON ASPHALT PAVEMENT SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED CONTRASTED, UNLESS OTHERWISE NOTED.
3. TOTAL PARKING PROVIDED = 318 SPACES.
   INCLUDES: 8 ADA ACCESSIBLE SPACES (3 VAN SPACES)
   4 EV CHARGING SPACES
   4 KISS-RIDE SPACES
   302 STANDARD SPACES

N

SIGN LEGEND

SIGN CODE	SIGN DESCRIPTION	SIZE
R1-1	STOP SIGN	30"X30"
R2-1	SPEED LIMIT SIGN	24"X30"
R4-7	KEEP RIGHT SIGN	24"X30"
R5-1	DO NOT ENTER SIGN	30"X30"
R6-2	ONE WAY SIGN	24"X30"
R7-8	HANDICAP SIGN	12"X18"
R7-8a	VAN ACCESSIBLE	6"X12"
SPECIAL DESIGN	BUSES ONLY SIGN	12"X18"
SPECIAL DESIGN	KISS AND RIDE SIGN	12"X12"
SPECIAL DESIGN	PARK AND RIDE RULES SIGN (INCLUDES SIGN PANEL, FRAME & MOUNTING HARDWARE)	12"X18"
SPECIAL DESIGN	NO TRESPASSING SIGN (MOUNTED ON LIGHT POLE)	12"X18"
D9-11b (Alternate) (BY OTHERS)	ELECTRIC VEHICLE CHARGING STATION SIGN (BY OTHERS)	12"X12"

NOTE:
ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION AND SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED. ALL SIGN PANELS TO BE MOUNTED ON THE DECORATIVE POSTS AS SHOWN ON THIS SHEET. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SPECIAL DESIGN SIGN PANELS FOR APPROVAL BY OWNER PRIOR TO ORDERING OR INSTALLATION.



KEY MAP

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES		

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKLIAS

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

OVERALL SIGNING AND MARKING PLAN

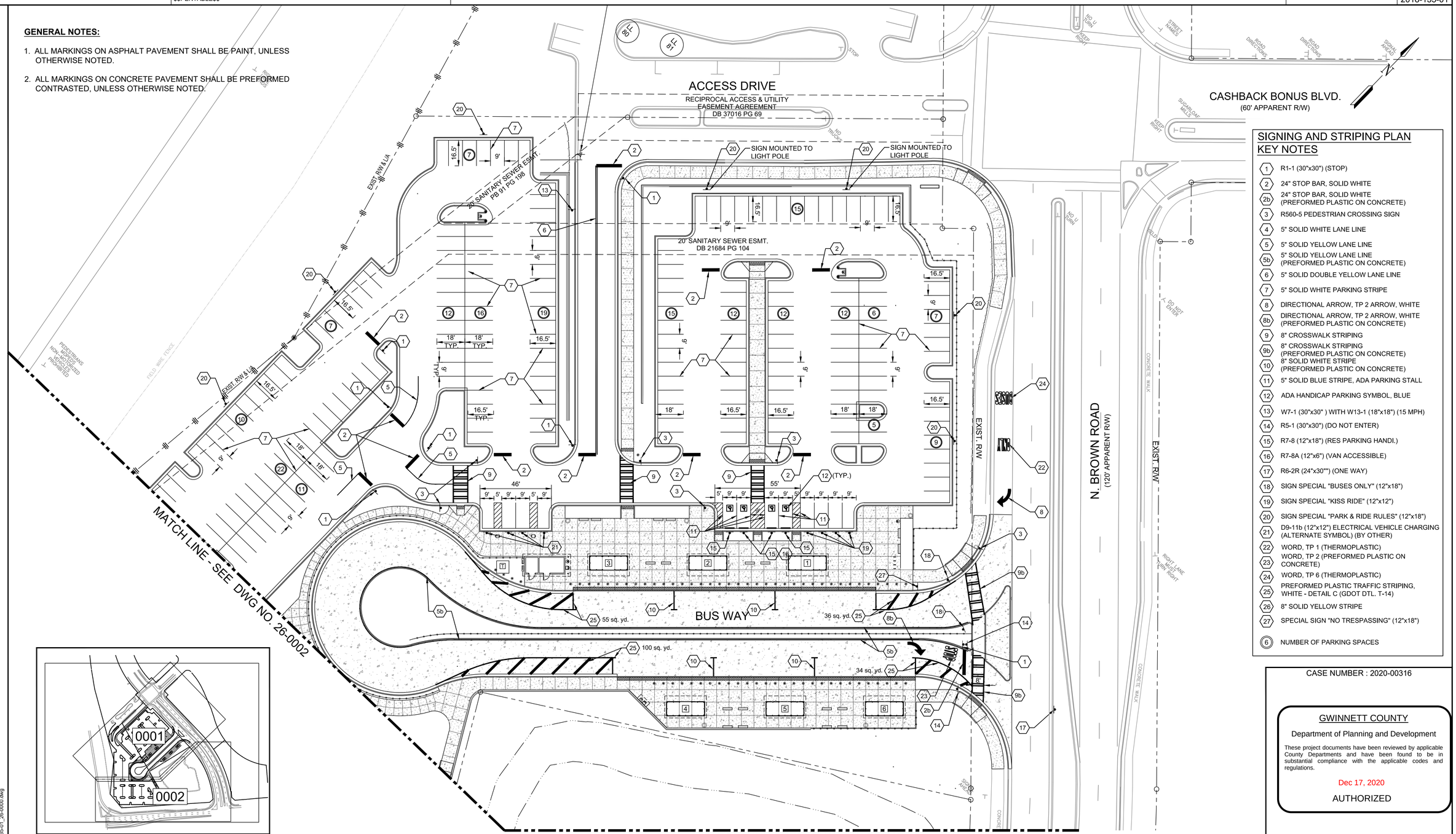
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 26-0000

GENERAL NOTES:

1. ALL MARKINGS ON ASPHALT PAVEMENT SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED CONTRASTED, UNLESS OTHERWISE NOTED.



SIGNING AND STRIPING PLAN KEY NOTES

1	R1-1 (30"x30") (STOP)
2	24" STOP BAR, SOLID WHITE
2b	24" STOP BAR, SOLID WHITE (PREFORMED PLASTIC ON CONCRETE)
3	R560-5 PEDESTRIAN CROSSING SIGN
4	5" SOLID WHITE LANE LINE
5	5" SOLID YELLOW LANE LINE
5b	5" SOLID YELLOW LANE LINE (PREFORMED PLASTIC ON CONCRETE)
6	5" SOLID DOUBLE YELLOW LANE LINE
7	5" SOLID WHITE PARKING STRIPE
8	DIRECTIONAL ARROW, TP 2 ARROW, WHITE
8b	DIRECTIONAL ARROW, TP 2 ARROW, WHITE (PREFORMED PLASTIC ON CONCRETE)
9	8" CROSSWALK STRIPING
9b	8" CROSSWALK STRIPING (PREFORMED PLASTIC ON CONCRETE)
10	8" SOLID WHITE STRIPE (PREFORMED PLASTIC ON CONCRETE)
11	5" SOLID BLUE STRIPE, ADA PARKING STALL
12	ADA HANDICAP PARKING SYMBOL, BLUE
13	W7-1 (30"x30") WITH W13-1 (18"x18") (15 MPH)
14	R5-1 (30"x30") (DO NOT ENTER)
15	R7-8 (12"x18") (RES PARKING HANDI.)
16	R7-8A (12"x6") (VAN ACCESSIBLE)
17	R6-2R (24"x30"") (ONE WAY)
18	SIGN SPECIAL "BUSES ONLY" (12"x18")
19	SIGN SPECIAL "KISS RIDE" (12"x12")
20	SIGN SPECIAL "PARK & RIDE RULES" (12"x18")
21	D9-11b (12"x12") ELECTRICAL VEHICLE CHARGING (ALTERNATE SYMBOL) (BY OTHER)
22	WORD, TP 1 (THERMOPLASTIC)
23	WORD, TP 2 (PREFORMED PLASTIC ON CONCRETE)
24	WORD, TP 6 (THERMOPLASTIC)
25	PREFORMED PLASTIC TRAFFIC STRIPING, WHITE - DETAIL C (GDOT DTL. T-14)
26	8" SOLID YELLOW STRIPE
27	SPECIAL SIGN "NO TRESPASSING" (12"x18")
6	NUMBER OF PARKING SPACES

CASE NUMBER : 2020-00316

GWINNETT COUNTY
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Dec 17, 2020

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PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNIS

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

REVISION DATES

SIGNING AND MARKING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	26-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

KEY MAP

SIGNING AND STRIPING PLAN KEY NOTES

1. R1-1 (30"x30") (STOP)
2. 24" STOP BAR, SOLID WHITE
2b. 24" STOP BAR, SOLID WHITE (PREFORMED PLASTIC ON CONCRETE)
3. PEDESTRIAN CROSSING SIGN, R560-5
4. 5" SOLID WHITE LANE LINE
5. 5" SOLID YELLOW LANE LINE
5b. 5" SOLID YELLOW LANE LINE (PREFORMED PLASTIC ON CONCRETE)
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8b. DIRECTIONAL ARROW, TP 2 ARROW, WHITE (PREFORMED PLASTIC ON CONCRETE)
9. 8" CROSSWALK STRIPING
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12. ADA HANDICAP PARKING SYMBOL, BLUE
13. W7-1 (30"x30") WITH W13-1 (18"x18") (15 MPH)
14. R5-1 (30"x30") (DO NOT ENTER)
15. R7-8 (12"x18") (RES PARKING HANDI.)
16. R7-8A (12"x6") (VAN ACCESSIBLE)
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18. SIGN SPECIAL "BUSES ONLY" (12"x18")
19. SIGN SPECIAL "KISS RIDE" (12"x12")
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22. WORD, TP 1 (THERMOPLASTIC)
23. WORD, TP 2 (PREFORMED PLASTIC ON CONCRETE)
24. WORD, TP 6 (THERMOPLASTIC)
25. PREFORMED PLASTIC TRAFFIC STRIPING, WHITE - DETAIL C (GDOT DTL. T-14)
26. 8" SOLID YELLOW STRIPE
27. SPECIAL SIGN "NO TRESPASSING" (12"x18")

(6) NUMBER OF PARKING SPACES

GENERAL NOTES:

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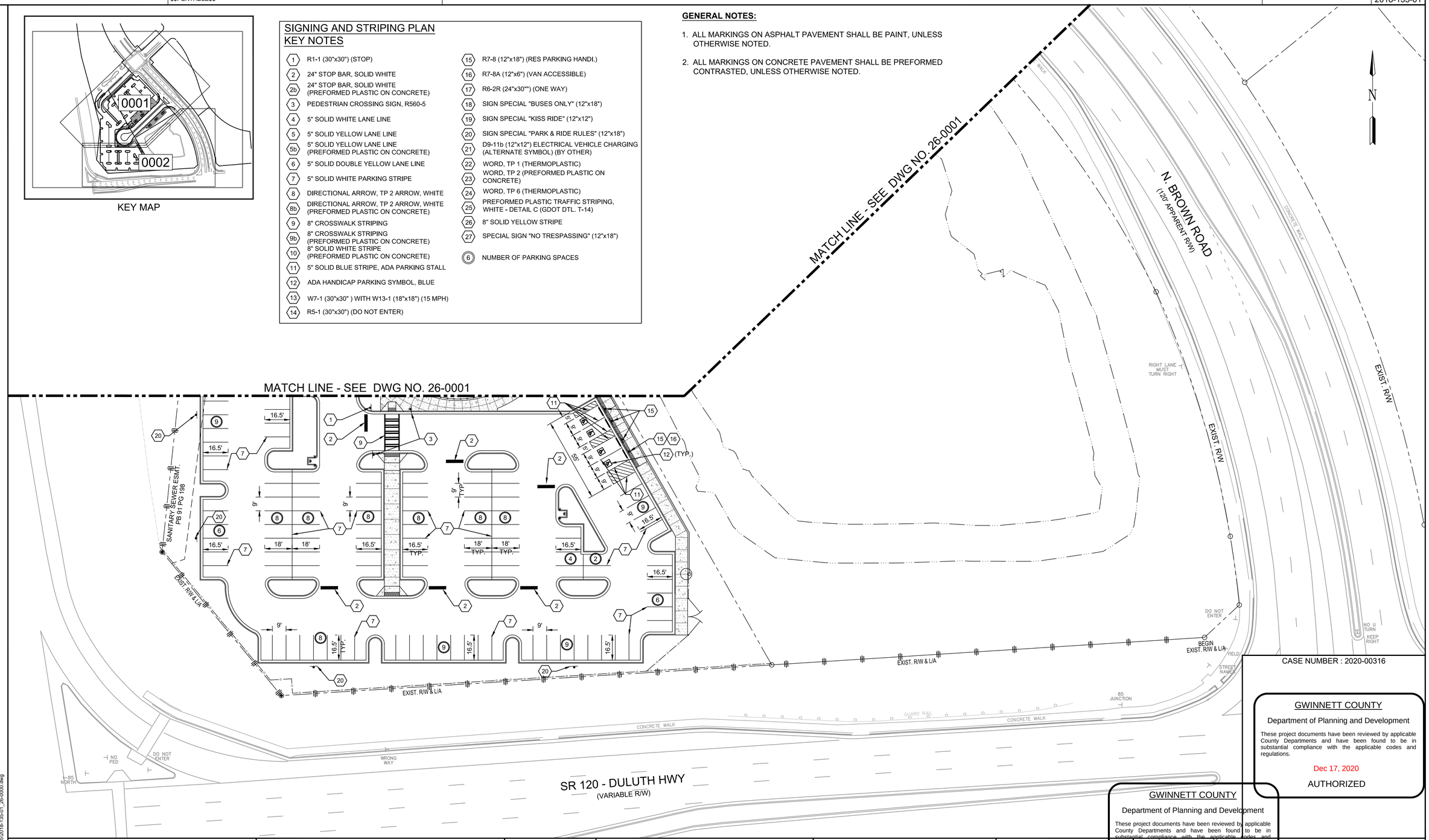
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED CONTRASTED, UNLESS OTHERWISE NOTED.



CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

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REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA
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EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES		

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARUNAS

ATKINS
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Certificate of Authorization #PEF000902
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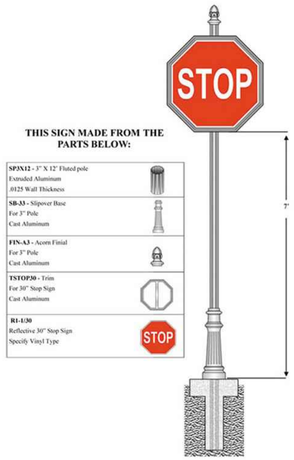
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES

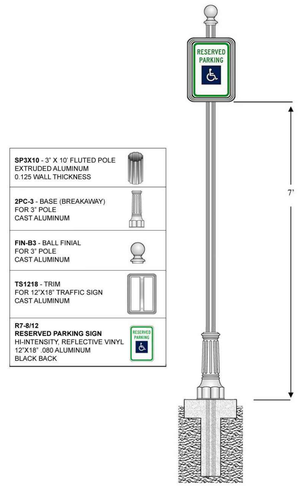
SIGNING AND MARKING PLAN

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

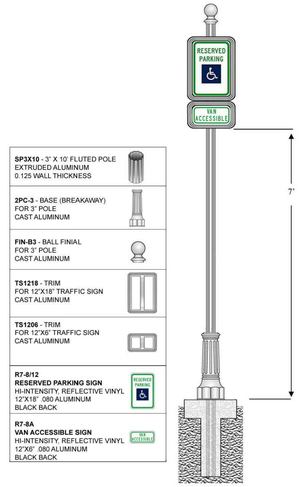
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



R1-1 DETAIL



R7-8 DETAIL



R7-8A DETAIL

MANUFACTURER: BRANDON INDUSTRIES, INC.
MODEL NO: POSTS, FOUNDATIONS, FRAMES, SIGN SHEETING, FINIAL
ADDRESS: 1601 WEST WILMETH ROAD
MCKINNEY, TX 75069
PHONE: 1.800.247.1274
WEBSITE: HTTP://WWW.BRANDONINDUSTRIES.COM
DESCRIPTION:
SIGN AND ALL POST COMPONENTS, BLACK FINISH, BREAKAWAY POST IN PUBLIC RIGHT-OF-WAYS, SIGNS TO MEET MUTCD STANDARDS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

OR

MANUFACTURER: SPECIAL LITE PRODUCTS COMPANY, INC.
MODEL NO: SAME AS SPECIFIED ABOVE
PHONE: 800.365.0511
WEBSITE: HTTP://SPECIALLITEPRODUCTS.COM

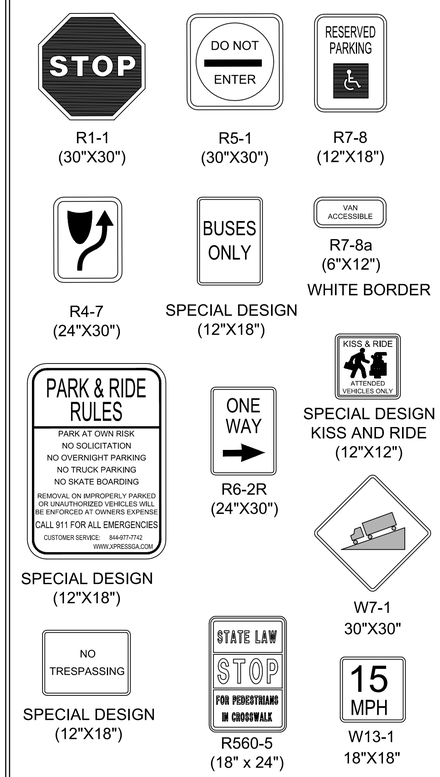
OR

MANUFACTURER: CAPITAL STREETSCAPES
MODEL NO: SAME AS SPECIFIED ABOVE
PHONE: 855.339.7800
WEBSITE: HTTP://WWW.CAPITALSTREETSCAPES.COM

OR APPROVED EQUAL

NOTES:
1. ALL SIGNS WITHIN THE PARK AND RIDE FACILITY (OUTSIDE RIGHT-OF-WAY) SHALL BE PAYED FOR AS DECORATIVE POST COMPLETE (UNIT EACH). DECORATIVE POST COMPLETE INCLUDES SIGN PANEL, DECORATIVE POST / FINAL, DECORATIVE FRAME AND THE FOUNDATION.
2. SIGN PANELS NOTED OR SHOWN ON PLANS MOUNTED ON LIGHT POLES SHALL BE INSTALLED USING A HEAVY-DUTY STAINLESS STEEL METAL BAND WITH ALUMINUM SIGN MOUNTING PLATE WITH BOLTS AND NUTS OR APPROVED EQUAL

SIGN FACE LEGEND



NOTE:
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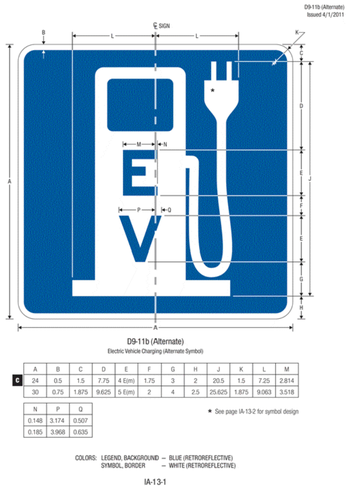


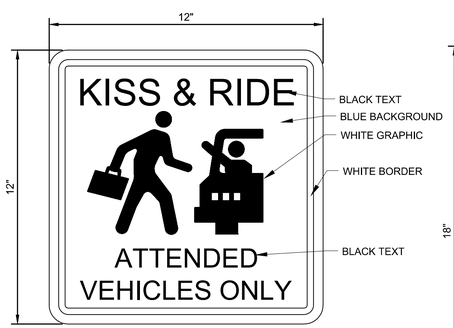
	A	B	C	D	E	F	G	H	J	K	L	M
C	24	0.5	1.5	7.75	4 E(m)	1.75	3	2	20.5	1.5	7.25	2.814
	30	0.75	1.875	9.625	5 E(m)	2	4	2.5	25.625	1.875	9.063	3.518

N	P	Q
0.148	3.174	0.507
0.185	3.968	0.635

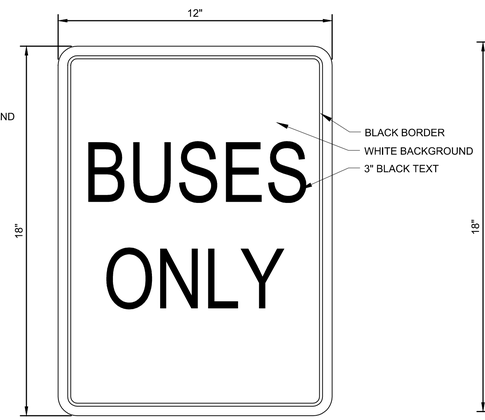
* See page IA-13-2 for symbol design

ELECTRIC VEHICLE CHARGING STATION SIGN PANEL
NOTE: SIGN PANEL TO BE 12"X12" AND MOUNTED ON DECORATIVE POST AND FRAME AS SHOWN IN STOP SIGN AND HANDICAP SIGNAGE

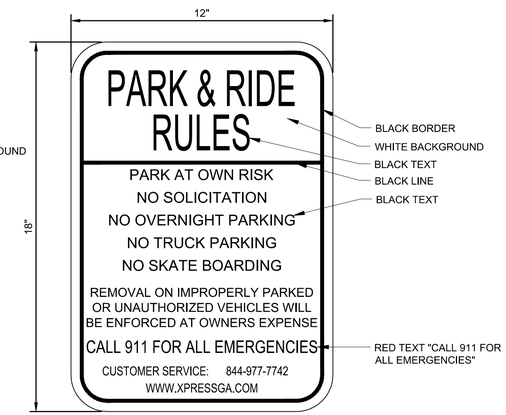
D9-11b (Alternate) DETAIL
(BY OTHERS)



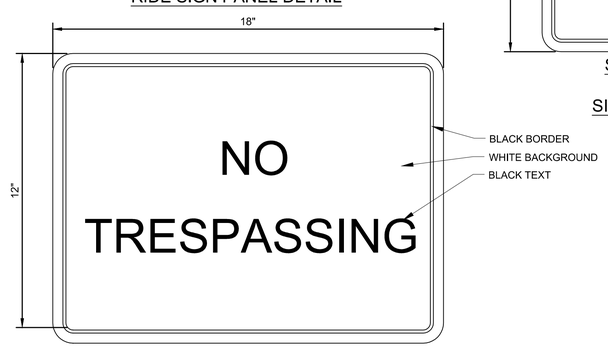
SPECIAL DESIGN KISS & RIDE SIGN PANEL DETAIL



SPECIAL DESIGN
BUSES ONLY
SIGN PANEL DETAIL



SPECIAL DESIGN
PARK & RIDE SIGN PANEL
DETAIL



SPECIAL DESIGN
NO TRESPASSING
SIGN PANEL DETAIL

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
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PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

GEORGE N. KAKLIAS
No. 21371
PROFESSIONAL ENGINEER
11/20/2020

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

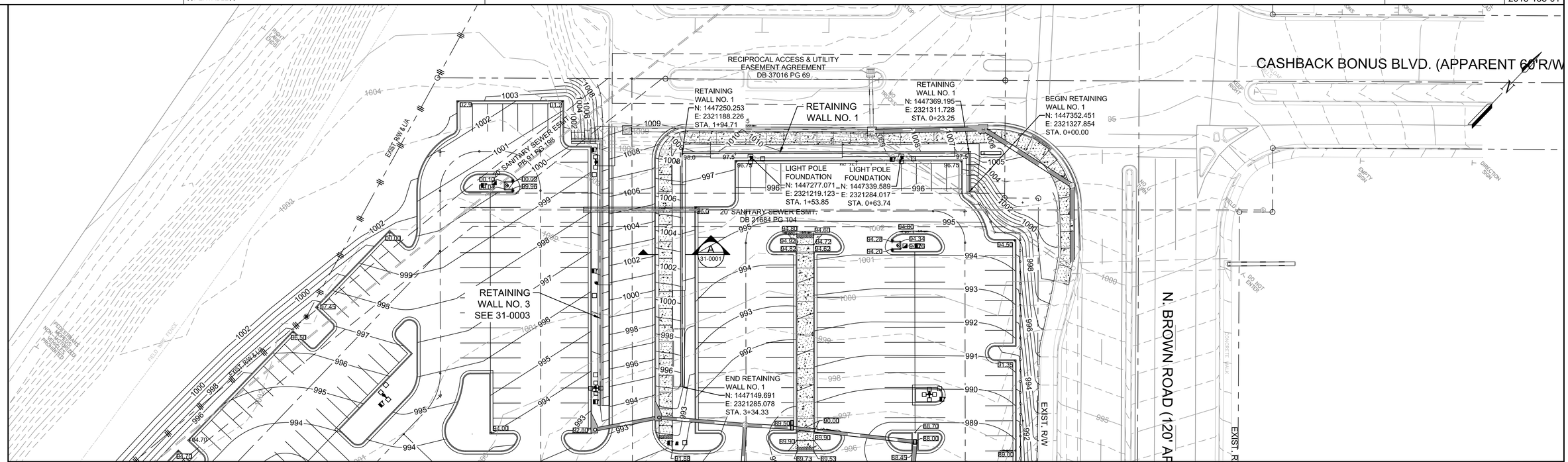
30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

REVISION DATES

...AND MARKING DETAILS
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN
Nov 18, 2020 - 6:38am
C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_26-0000.dwg

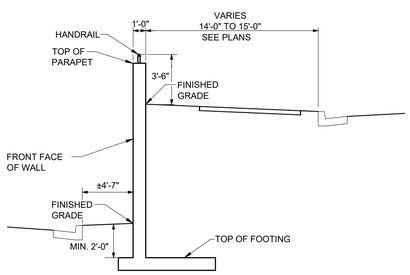


CONSTRUCTION DETAIL

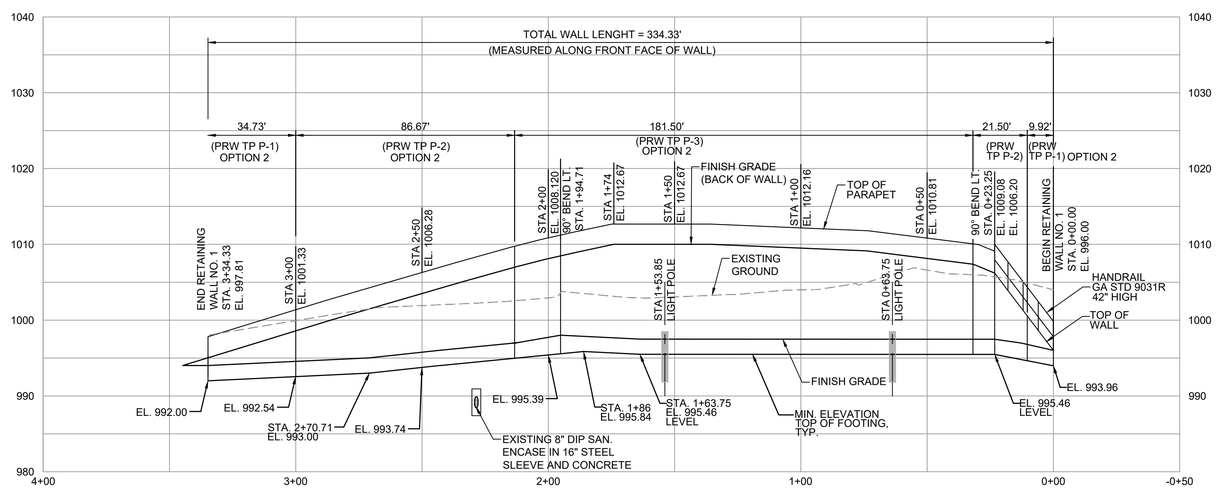
PRW-1 PARAPET RETAINING WALL TYPES P1, P2, AND P3 ----------(12-2017)

NOTES

1. ELEVATIONS SHOWN AT TOP OF PARAPET OR TOP OF FOOTING.
2. SEE CONTRUCTION DETAIL PARAPET RETAINING WALL TYPES P1, P2, AND P3 FOR WALL DETAILS.
3. SHORING MAY BE REQUIRED CONSISTING OF PILES, LAGGING AND TIE-BACKS, SOIL NAIL WALL SHALL NOT BE USED. THE COST SHALL BE INCLUDED IN THE WALL.



SECTION A 31-0001
NO SCALE



RETAINING WALL NO. 1

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030416 CHARLES CHRISTOPHER KING 11/20/2020

ATKINS
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Atkins North America, Inc
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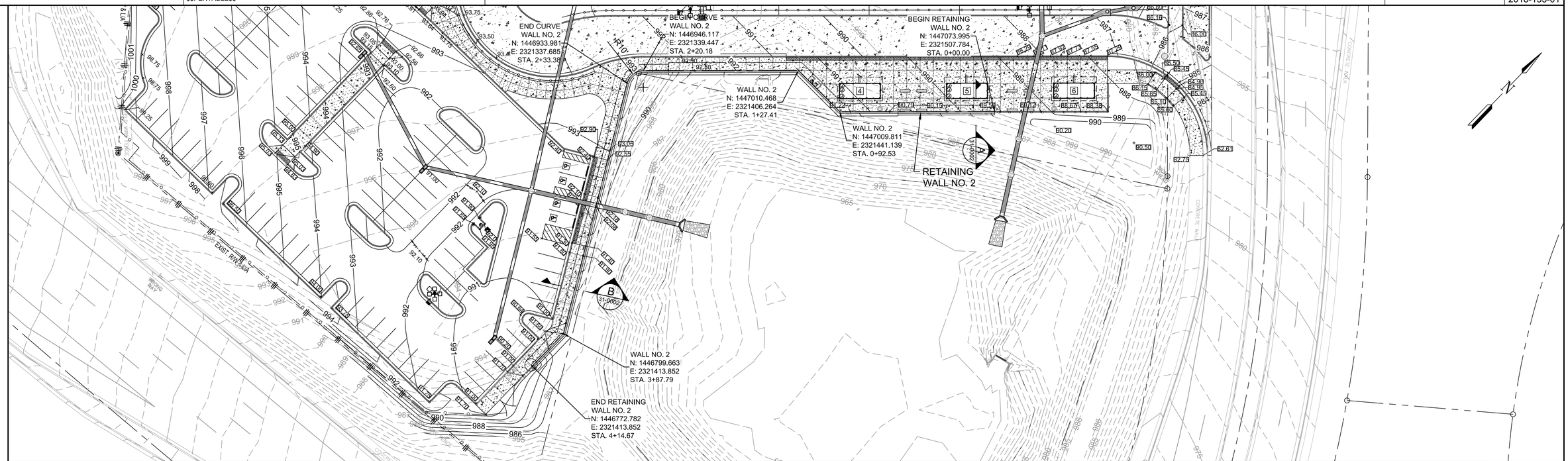
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

RETAINING WALL NO. 1
PLAN AND PROFILE
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

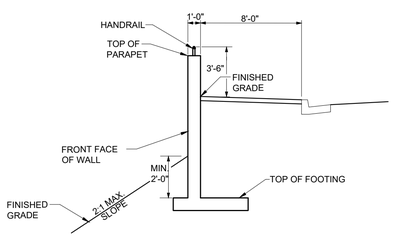


CONSTRUCTION DETAIL

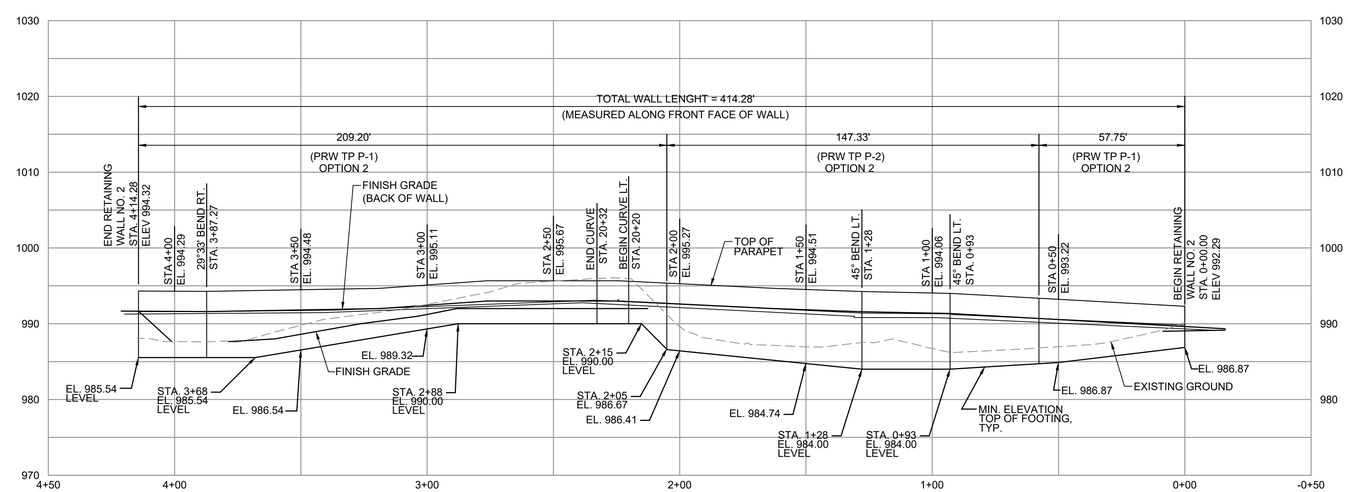
PRW-1 PARAPET RETAINING WALL TYPES P1, P2, AND P3 ----------(12-2017)

NOTES

1. ELEVATIONS SHOWN AT TOP OF PARAPET OR TOP OF FOOTING.
2. SEE CONTRUCTION DETAIL PARAPET RETAINING WALL TYPES P1, P2, AND P3 FOR WALL DETAILS.

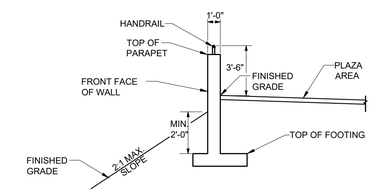


SECTION B 31-0002
NO SCALE



RETAINING WALL NO. 2

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)



SECTION A 31-0002
NO SCALE

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030418 11/20/2020 CHARLES CHRISTOPHER KING

ATKINS
Member of the SNC-Lavalin Group

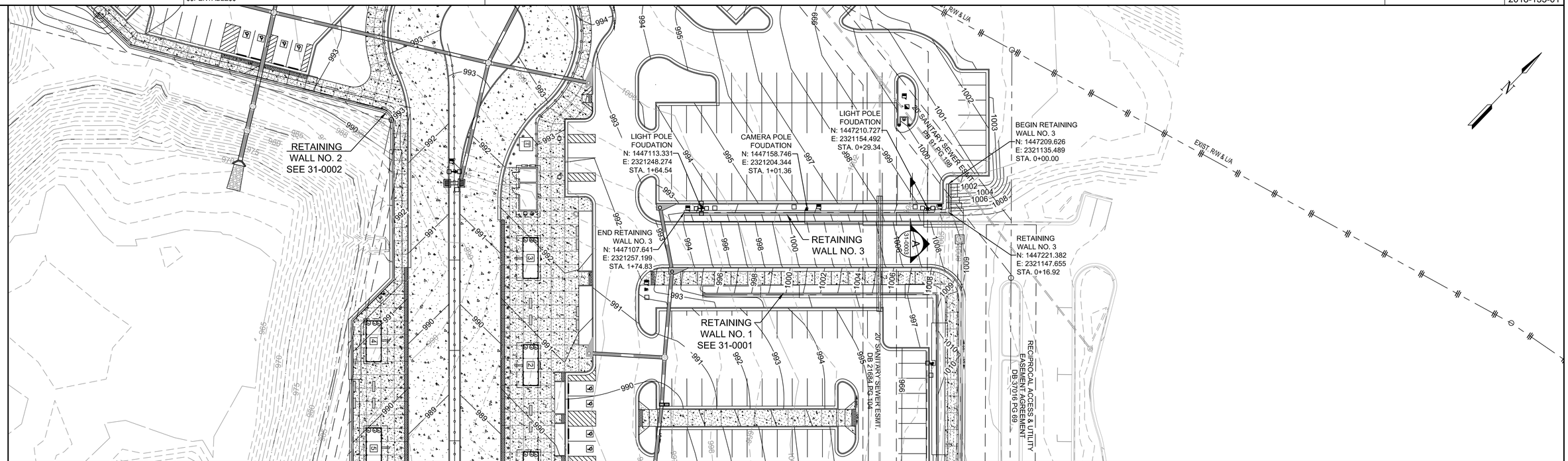
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES

RETAINING WALL NO. 2
PLAN AND PROFILE
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

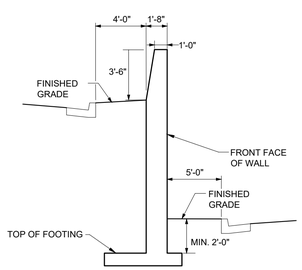


CONSTRUCTION DETAIL

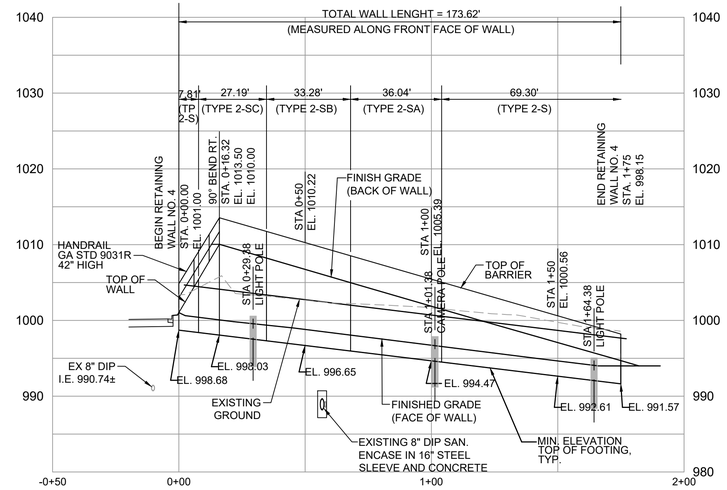
4949B CONCRETE SIDE BARRIER TYPES 2-S, 2-SA, 2-SB, AND 2-SC ----------(12-2017)

NOTES

1. ELEVATIONS SHOWN AT TOP OF BARRIER OR TOP OF FOOTING.
2. SEE CONTRUCTION DETAIL CONCRETE SIDE BARRIER TYPES 2-S, 2-SA, 2-SB, 2-SC FOR WALL DETAILS.



SECTION A 31-0003
NO SCALE



RETAINING WALL NO 3

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GEORGIA REGISTERED No. 030458 PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING 11/20/2020

ATKINS
Member of the SNC-Lavalin Group

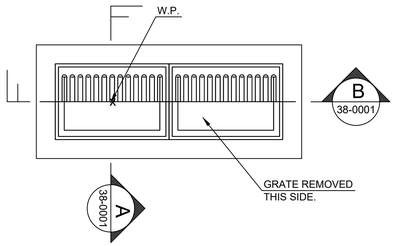
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

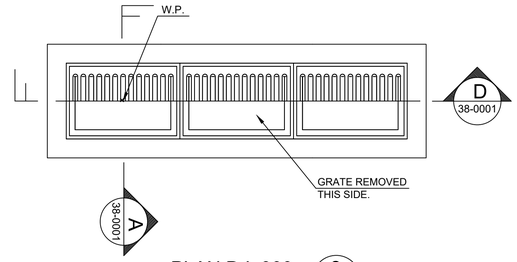
REVISION DATES

RETAINING WALL NO. 3
PLAN AND PROFILE
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

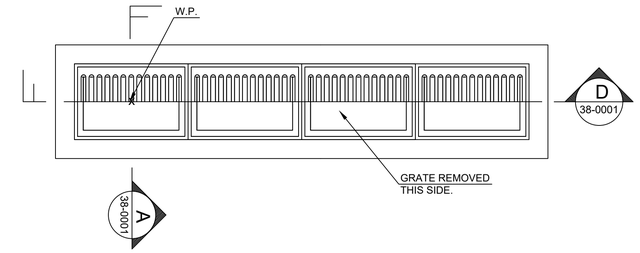
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		



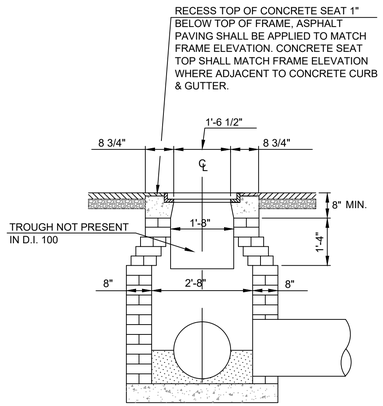
PLAN D.I. 200 (1 / 38-0001)
SCALE : 1/2"=1'-0"



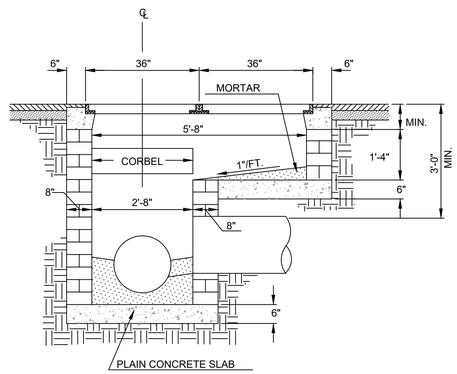
PLAN D.I. 300 (2 / 38-0001)
SCALE : 1/2"=1'-0"



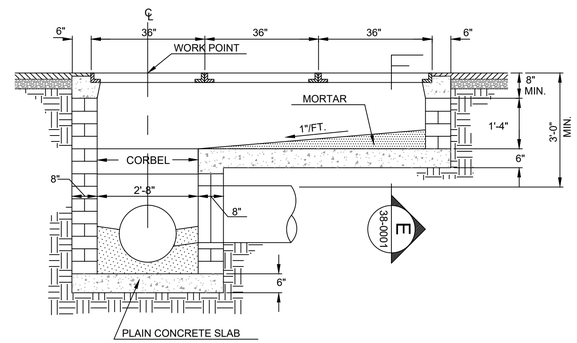
PLAN D.I. 400 (3 / 38-0001)
SCALE : 1/2"=1'-0"



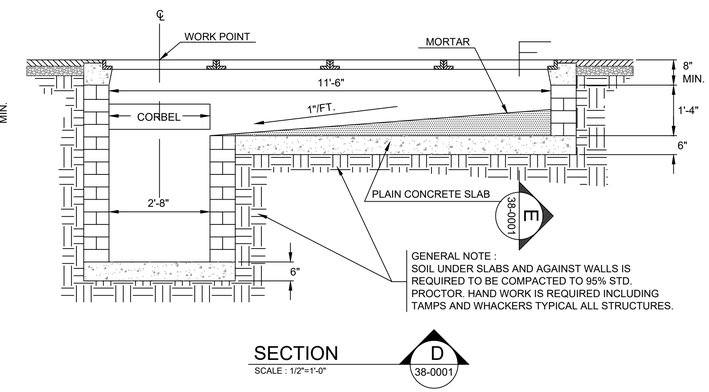
SECTION (A / 38-0001)
SCALE : 1/2"=1'-0"



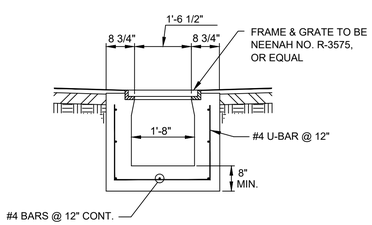
SECTION (B / 38-0001)
SCALE : 1/2"=1'-0"



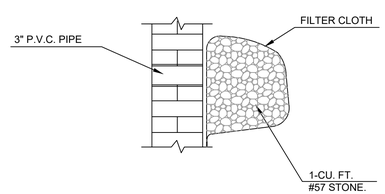
SECTION (C / 38-0001)
SCALE : 1/2"=1'-0"



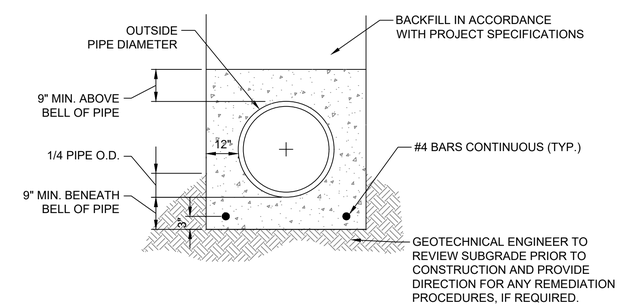
SECTION (D / 38-0001)
SCALE : 1/2"=1'-0"



SECTION (E / 38-0001)
SCALE : 1/2"=1'-0"



DETAIL OF WEEPHOLE (4 / 38-0001)
SCALE : 1"=1'-0"



CONCRETE CLASS 'A' BEDDING DETAIL (5 / 38-0001)
SCALE : NTS

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
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Dec 17, 2020
AUTHORIZED

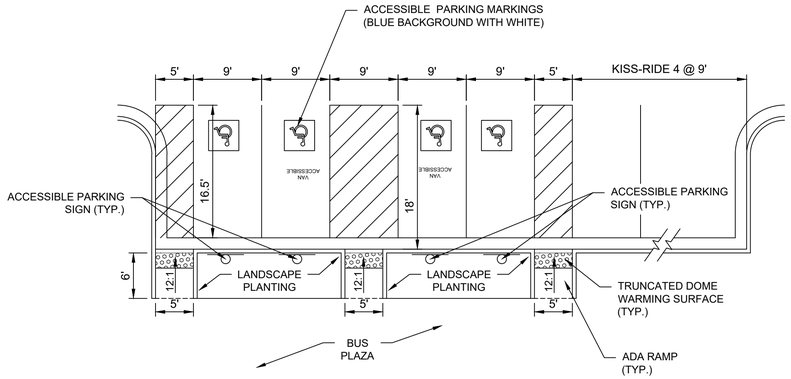
REVISION DATES

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

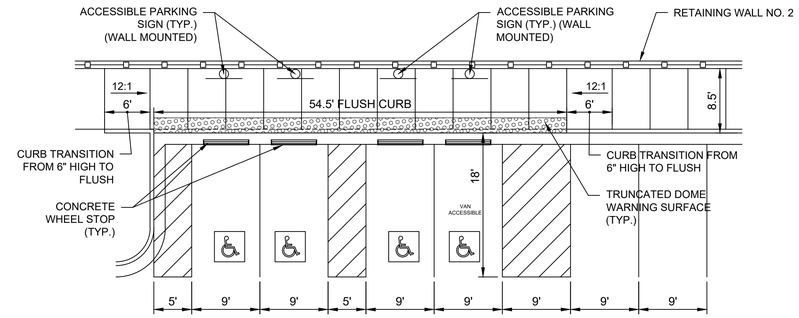
SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

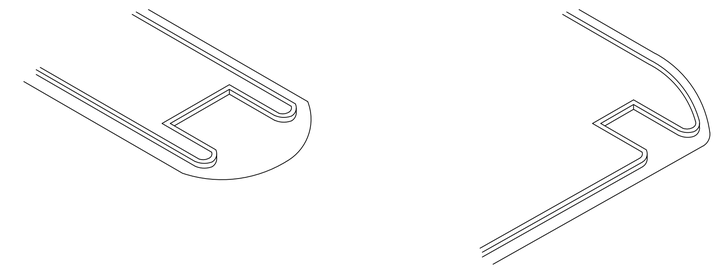
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

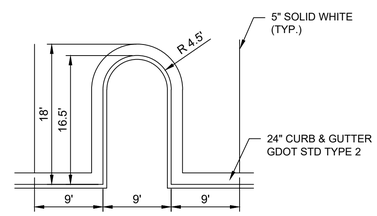


ACCESSIBLE PARKING LAYOUT 1 38-0002

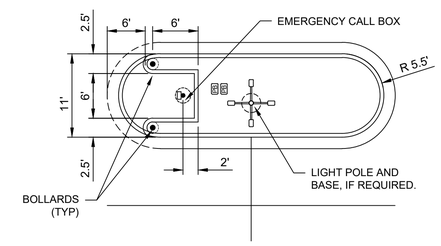
SCALE : 3/8"=1'-0"



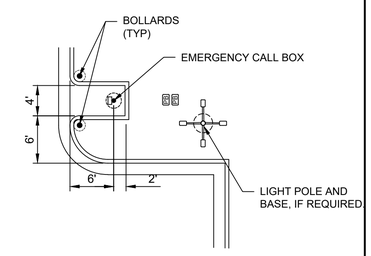




PERIMETER LANDSCAPE ISLAND



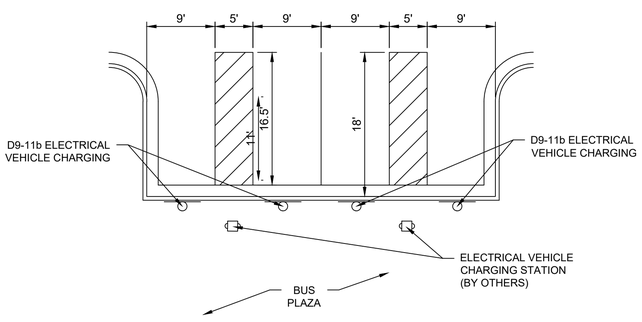
OPTION 'A'



OPTION 'B'

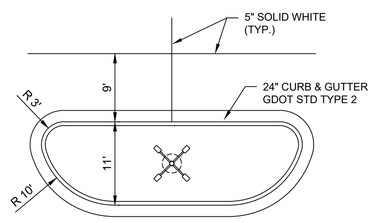
EMERGENCY CALL BOX LOCATION 4 38-0002

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

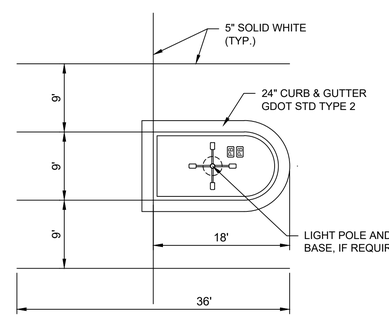


EV CHARGING PARKING LAYOUT 2 38-0002

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



CURB & GUTTER END ISLAND TYPE A



CURB & GUTTER END ISLAND TYPE B
CURB & GUTTER BAY ISLAND

PARKING BAY ISLAND DETAILS 3 38-0002

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

GWINNETT COUNTY

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Dec 17, 2020

AUTHORIZED

REVISION DATES

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

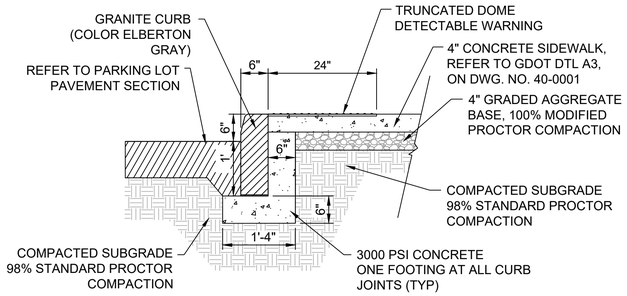
STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KANUNGO

OPTIONAL CONSTRUCTION DETAILS
CIVIL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

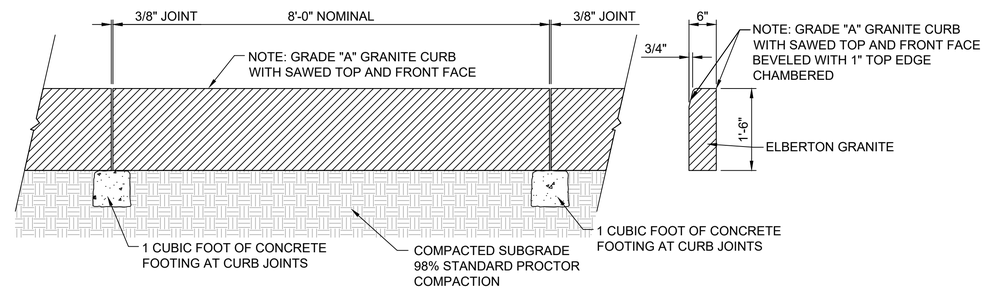
CONTRACTOR TO PROVIDE SAMPLE OF ELBERTON GRANITE CURB FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO ORDERING AND INSTALLING.



GRANITE CURB DETAIL

SCALE : NTS

1
38-0003



TYPICAL GRANITE CURB SECTION

SCALE : NTS

2
38-0003

CASE NUMBER : 2020-00316

GWINNETT COUNTY

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AUTHORIZED

REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKUNDES

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REVISION DATES

SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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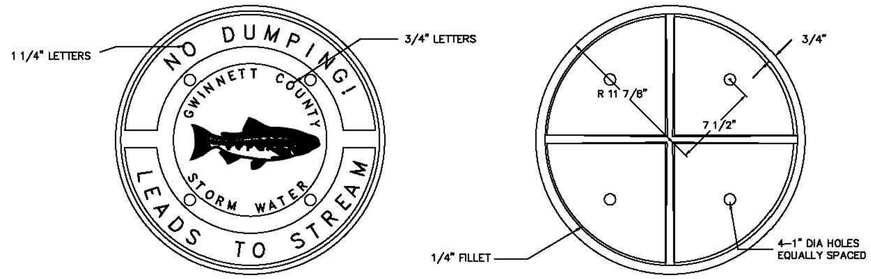
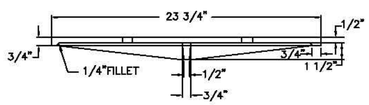
VERIFIED:		DATE:		



TOP VIEW

BOTTOM VIEW

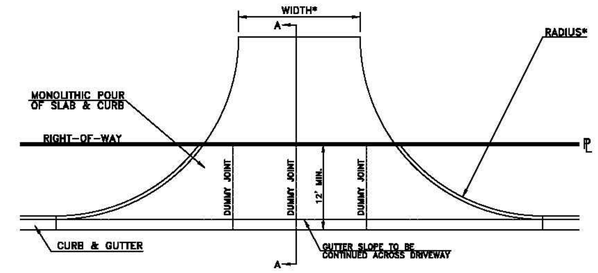


COVER SECTION

NOTES:

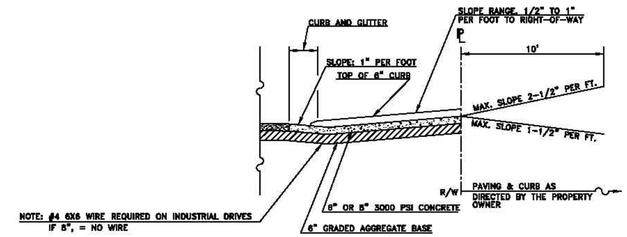
- Approximate Weight: C.I. Cover 63 lbs.
- Load Rating: Non-Traffic
- Engraving Depth Max.: 3/16"

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
Manhole Castings - Non Traffic Areas
DATE: NOVEMBER 2000 SHEET: 811



* SEE DRIVEWAY DETAILS FOR WIDTH AND RADIUS

PLAN



SECTION A-A

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT
STANDARD DRAWING
Commercial and Industrial Driveways
DATE: JANUARY 1998 SHEET: 313

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

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Dec 17, 2020

AUTHORIZED

GWINNETT COUNTY

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Dec 17, 2020

AUTHORIZED

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

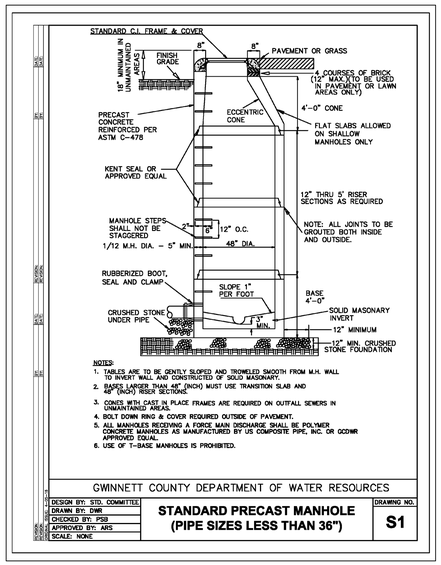
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

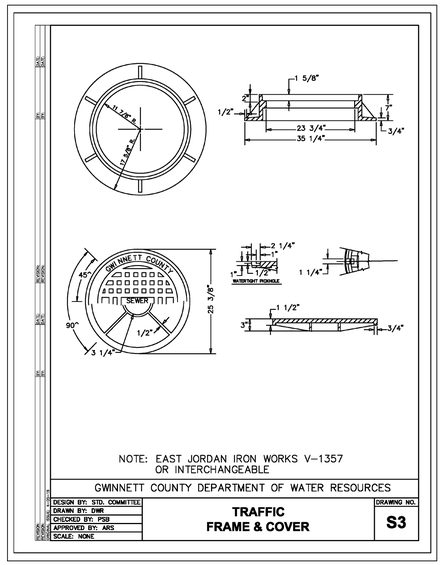
REVISION DATES		
08-01-19		

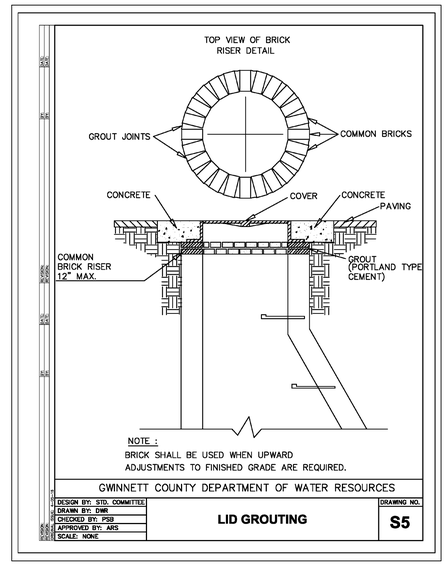
SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

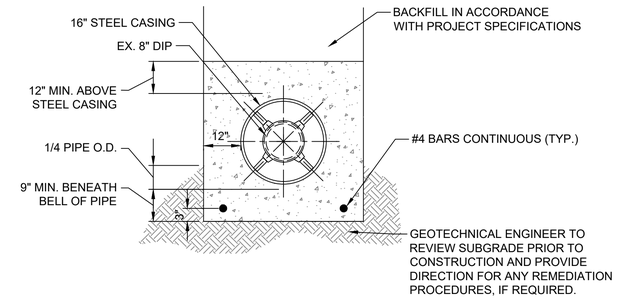
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		38-0004
VERIFIED:		DATE:		





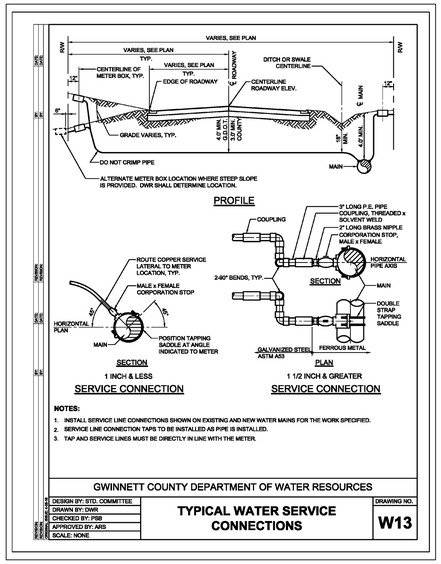


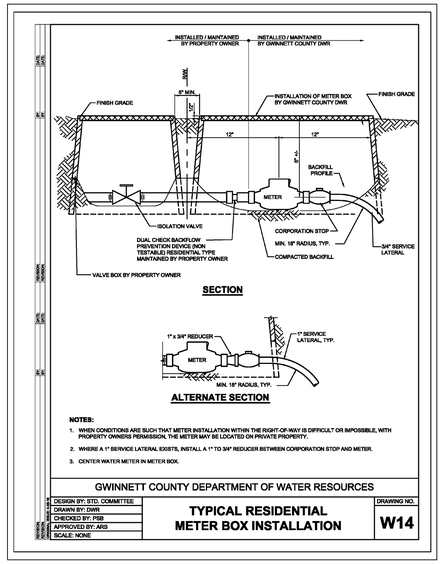


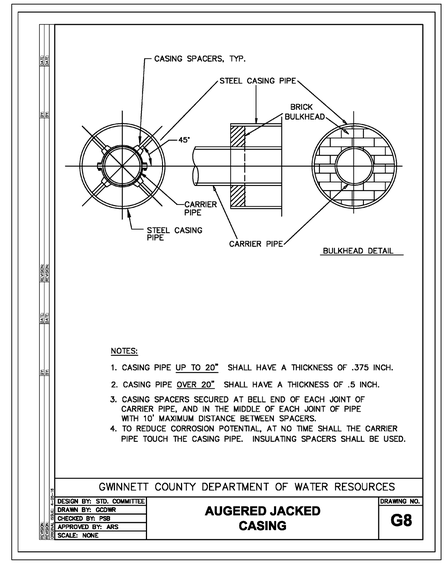
STEEL CASING AND CONCRETE ENCASEMENT FOR SANITARY SEWER

SCALE : NTS

1 / 38-0005







CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

REVISION DATES

PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKLIGKES

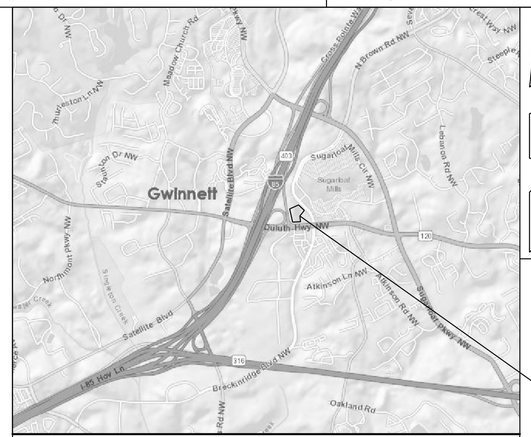
ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

SPECIAL CONSTRUCTION DETAILS
CIVIL DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		38-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		



PROJECT LOCATION

LOCATION SKETCH (N.T.S.)

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.

ATLANTA-REGION TRANSIT LINK AUTHORITY

STATE OF GEORGIA

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SUGARLOAF PARK-N-RIDE LOT

GWINNETT COUNTY

FEDERAL GRANT # GA-2018-024

ATL PROJECT

FEDERAL ROUTE # N/A

STATE ROUTE # N/A

DISTURBED ACREAGE = 5.81 ACRES

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR100002."

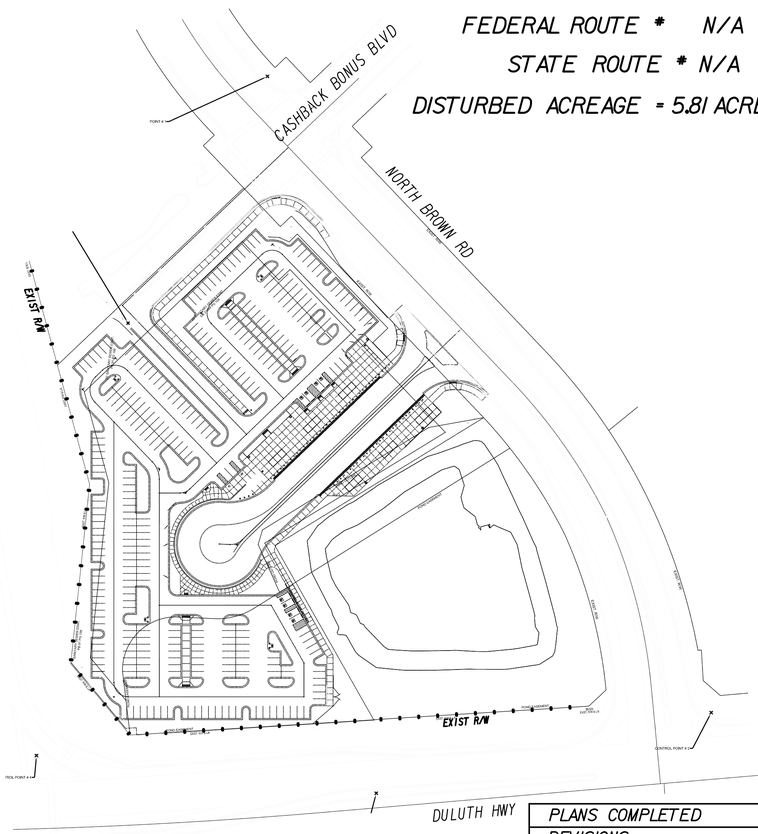
"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."

Signature

GSWCC LEVEL II Certification #



SCALE IN FEET

0 100 200 400

CASE NUMBER : 2020-00316

GEORGE N. KAKUNES
REGISTERED
No. 21371
PROFESSIONAL
11/20/2020
ENGINEER

PRIMARY PERMITTEE

State Road And Tollway Authority
245 Peachtree Center Avenue, Suite 2200
Atlanta, Georgia 30303
Phone: (404)-893-6176
Email: ssamu@srta.ga.gov

PLANS PREPARED BY:

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc.
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration date 06/30/2022

RECOMMENDED FOR APPROVAL BY:

Annie Gillespie, P.E. - Chief Engineer, SRTA

RECOMMENDED FOR SUBMISSION BY:

Sam Samu, P.E. - State Transportation Engineer, SRTA

Date:

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

0000043839
GSWCC LE Number

24 HOUR CONTACT:

Name

Street Address

City, State Zip

Phone Number

Email Address

Contractor shall complete the information in this box.

LENGTH OF PROJECT	COUNTY No. 135 Project No. 2018-135-01 MILES
NET LENGTH OF ROADWAY	N/A
NET LENGTH OF BRIDGES	N/A
NET LENGTH OF PROJECT	N/A
NET LENGTH OF EXCEPTIONS	N/A
GROSS LENGTH OF PROJECT	N/A

PLANS COMPLETED

REVISIONS

DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#
- -				
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- -				
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GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

DRAWING No.
50-0001

GENERAL EROSION & SEDIMENTATION CONTROL NOTES:

1. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

2. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL, GWINNETT COUNTY CODES, AND THE STANDARDS AND SPECIFICATIONS IN THE **MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.**

3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY, STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

4. ALL CONSTRUCTION SHALL CONFORM TO GWINNETT COUNTY, O.S.H.A., AND/OR GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

5. THE NOTATION (XXX) AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:

   A. NO SURFACE WATER FLOWS FROM ONSITE AREA SHALL BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.

   B. SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES AND THE MAINTENANCE OF SWALES, BERMS, TEMPORARY DIKES, AND OTHER GENERALLY ACCEPTED CONSTRUCTION PRACTICES IS REQUIRED.

7. EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY NECESSARY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. PLEASE CALL (678)-518-6000 WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.

9. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OR CONCURRENT WITH EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**

10. **EROSION AND SEDIMENTATION 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 AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.**

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

12. **EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY.**

13. **ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY GWINNETT CO.**

14. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE FINAL STABILIZATION IS ACHIEVED.

15. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR REMOVING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

16. ALL DISTURBED AREAS SHALL BE GRASSED BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

18. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

19. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE "C" TEMPORARY SILT FENCE, OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT), STANDARD SPECIFICATIONS, CURRENT EDITION, AND BE WIRE REINFORCED.

20. SEDIMENT DEPTH INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

21. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

22. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5 : 1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKET. ALL GRADED SLOPES ON INDIVIDUAL PROJECTS SHALL BE NO STEEPER THEN 2:1 OR THE APPROPRIATE RETAINING STRUCTURE SHALL BE DESIGNED TO REINFORCE OR RETAIN THE RESULTING EMBANKMENT.

GENERAL EROSION & SEDIMENTATION CONTROL NOTES: (CONT'D.)

23. PROPOSED DETENTION PONDS, DETENTION OUTLET CONTROL STRUCTURES, AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED COMPLETELY AND BE FULLY OPERATIONAL PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES.

24. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

25. **NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.**

26. **NO WETLANDS HOWEVER WATERS OF THE STATE ARE LOCATED WITHIN 200-FEET OF THE PROJECT.**

27. FLOOD NOTE:

THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA:

A. "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155; MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006..

THIS PROPERTY LIES WITHIN THE FOLLOWING AREAS:

"ZONE X" (OTHER AREAS): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

28. MULCH TEMPORARY VEGETATION ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. THIS NOTE APPLIES AFTER INITIAL GRADING OF THE DEVELOPMENT OR LOT.

29. ALL DISTURBED AREAS LEFT IDLE FOR 5 DAYS, AND NOT TO FINAL GRADE, WILL NEED TO ESTABLISH TEMPORARY VEGETATION BY USING Ds1 / Ds2. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION BY USING Ds3 OR Ds4 IMMEDIATELY UPON COMPLETION.

30. GWINNETT COUNTY LAND DISTURBANCE PERMIT / BUILDING PERMITS MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.

31. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

32. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE OILS & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". GWINNETT COUNTY ALSO REQUIRES THAT POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDRO SEEDING.

33. THE PROPOSED EROSION AND RUNOFF CONTROL MEASURES ARE IN COMPLIANCE WITH THE GWINNETT COUNTY SEDIMENT CONTROL AND FLOOD PROTECTION REGULATIONS AND WILL NOT INCREASE THE RUNOFF RATE FROM THE SITE FOR RAINSTORMS WITH A RETURN PERIOD OF 2,5,10,25,50 AND/OR 100 YEARS

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 — GSWCC LEVEL II CERTIFICATION NO.
11/09/2021 — GSWCC LEVEL II CERTIFICATION EXP. DATE

INITIAL (CLEARING & GRUBBING) NOTES:

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

2. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

3. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, AND/OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.

4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.

5. PRIOR TO COMMENCING LAND DISTURBING 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 ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED PHASE I LIMITS INDICATED ON THE APPROVED PLANS.

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

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

8. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

9. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.

INITIAL (CLEARING & GRUBBING) NOTES: (CONT'D)

10. LOCATE STATE WATERS/WETLANDS.

11. ESTABLISH FULL IMPLEMENTATION OF SEDIMENT TRAPS

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

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

15. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

16. CLEARING BEYOND THE LIMITS SHOWN IN THE INITIAL EROSION CONTROL PLAN; FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID LOSS OF SEDIMENT INTO THE BUFFER AREAS.

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

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

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

6. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.

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

8. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10-FEET OR GREATER, AND CUTS AND FILLS WITH STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.

9. TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL SOIL STOCK PILE AREAS.

10. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.

11. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALL LOCATIONS AS SOON AS THE HEADWALL IS CONSTRUCTED.

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL RETROFITS, EXCAVATED SEDIMENT TRAPS AND DIVERSION DIKES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE RETROFITS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE EXISTING DETENTION PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATIONS AS SHOWN ON THE PLANS.

14. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

15. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5"-3.5" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

16. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

FINAL (STORMWATER MANAGEMENT & PERMANENT VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

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

3. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.

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

5. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

6. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name: SUGARLOAF PARK AND RIDE **Address:** N BROWN ROAD NW @ I-85
City/County: LAWRENCEVILLE / GWINNETT **Date on Plans:**_____
Name & email of person filling out checklist: Ryne McCoy ryne.mccoy@atkinsglobal.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
51-0002	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	-	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. * (A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.)
51-0002	Y	4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
51-0002	Y	5 Provide the name, address, email address, and phone number of primary permittee.
51-0002	Y	6 Note total and disturbed acreage of the project or phase under construction.
51-0002	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
51-0002	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0002	Y	9 Description of the nature of construction activity.
51-0002	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-0002	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
51-0002	Y	12 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 19 of the permit.
51-0002	Y	13 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 19 of the permit. *
51-0002	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *
51-0002	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0002	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
51-0002	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
51-0002	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

REVISION DATES
05/06/19

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

PROFESSIONAL ENGINEER No. 21371 GEORGIA 11/20/2020 GEORGE N. KAKUNES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

51-0002	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0002	Y	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 Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
51-0002	Y	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. *
51-0002	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
51-0003	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
51-0003	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
51-0003	Y	27 Description of practices to provide cover for building materials and building products on site. *
51-0003	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
51-0003	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0003	Y	30 Provide complete requirements of inspections and record keeping by the primary permittee. *
51-0003	Y	31 Provide complete requirements of sampling frequency and reporting of sampling results. *
51-0004	Y	32 Provide complete details for retention of records as per Part IV.F. of the permit. *
51-0004	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
51-0004	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
51-0004	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
51-0004	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
51-0004	Y	37 Graphic scale and North arrow.
51-0004	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

51-0004	Y	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.
51-0004	Y	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. *
51-0004	Y	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.
51-0004	Y	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
51-0004	Y	43 Delineation and acreage of contributing drainage basins on the project site.
51-0004	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
51-0004	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0004	Y	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0004	Y	47 Soil series for the project site and their delineation.
51-0004	Y	48 The limits of disturbance for each phase of construction.
51-0005	Y	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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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.
51-0005	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
51-0005	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0005	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the 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

?C AND NPDES NOTES:

ı. ar-PLICABLE 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:

2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL:

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

3. THE LIMIT OF DISTURBANCE FOR THIS PROJECT IS LESS THAN 50 ACRES AT ANY ONE TIME FOR THE DURATION OF THE PROJECT; THEREFORE, NO WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE, NOR THE INCLUSION OF AT LEAST 4 OF THE BMPs LISTED IN APPENDIX 1 OF THIS CHECKLIST, IS REQUIRED.

4. 24-HOUR LOCAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL CONTACT:

NAME: T.B.D.
LOCAL ADDRESS:

CONTACT PHONE NO.:

5. PRIMARY PERMITTEE:

OPERATOR: TO BE DETERMINED

OPERATOR CONTACT: _____
OPERATOR CONTACT PHONE NO.: _____

OWNER: NAME: SAM SAMU
ADDRESS: 245 PEACHTREE CENTER AVENUE, SUITE 2200
ATLANTA, GA 30303

OWNER CONTACT: SSAMU@SRTA.GA.GOV
OWNER CONTACT PHONE NO.: 404-893-6176

6. TOTAL PROPERTY SITE AREA: 5.49 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 1): 2.06 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 2 & 3): 5.81 ACRES.

7. THE GPS LOCATION FOR THE CONSTRUCTION EXIT IS: N33.978611 W84.085833

8. FOR THE INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS, REFER TO THE TITLE BLOCK ON ALL SHEETS.

9. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY:

PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT CONSIST OF THE GRADING OF THE SITE AND THE INSTALLATION OF SITE, ROADWAY, AND UTILITY INFRASTRUCTURE REQUIRED TO SUPPORT A NEW PARK AND RIDE LOT AND BUS LOADING AREA.

10. VICINITY MAP:

N
SITE
Sugarloaf Mills Blvd
Sugarloaf Pkwy
Lawrenceville Suwanee Rd
Buford Dr
Beaver Ridge Rd
Pleasant Hill Rd
Steve Reynolds Blvd
Jimmy Carter Blvd
Indian Trail Lilburn Rd
Rockbridge Rd
Lawrenceville Hwy
Lilburn Stone Mountain Rd
Arcadia Blvd
Beaver Ridge Rd
Pleasant Hill Rd
Oak Grove Rd
Lawrenceville Hwy
Lilburn Stone Mountain Rd
Arcadia Blv

GSWCC AND NPDES NOTES:(CONT'D.)

25. BMP's FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

POTENTIAL ENVIRONMENTAL IMPACTS FROM POLLUTANT SOURCES (EXISTING AND PROPOSED):

(1.) VEHICLE AND/OR EQUIPMENT LEAKS, AS WELL AS FROM ANY UNEXPECTED ACCIDENTS;

(2.) STORAGE, HANDLING AND/OR TRANSPORTATION OF HAZARDOUS MATERIALS/ CHEMICALS;

(3.) LOADING/UNLOADING AND/OR REFUELING/TRANSFERRING OPERATIONS OF HEAVY EQUIPMENT AND ANY OTHER FUEL OPERATED EQUIPMENT (I.E. GENERATORS, PUMPS, CHAINSAWS, ETC...) TO INCLUDE THE USE OF FUEL TANKS AND ANY OTHER TYPE OF DISPENSERS (AS APPLICABLE); AND,

(4.) ASPHALT, CONCRETE, ROCK CRUSHER OPERATIONS.

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) REQUIREMENTS:

DURING THE IMPLEMENTATION (CONSTRUCTION/OPERATION) PHASE(S) OF THE PROJECT, THE CONTRACTOR AND/OR PROPONENT MUST HAVE A SPCC PLAN, AND FOLLOW ALL GWINNETT COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) REGULATIONS, WHICH ARE ASSOCIATED WITH TRANSPORTATION OF ANY HAZARDOUS MATERIALS. STORAGE OF HAZARDOUS MATERIAL/CHEMICALS AND WASTE MUST COMPLY WITH GWINNETT COUNTY REGULATIONS, INCLUDING SECONDARY CONTAINMENT AS REQUIRED. DRIP PANS SHOULD BE AVAILABLE FOR VEHICLES AND EQUIPMENT TO PREVENT OIL AND OTHER PETROLEUM PRODUCTS FROM SPILLING ONTO THE SOIL OR WATER. SECONDARY CONTAINMENT IS REQUIRED FOR ANY REFUELING/TRANSFERRING ACTIVITIES.

STORAGE AREAS FOR HAZARDOUS MATERIALS / CHEMICALS / WASTE SHOULD BE DESIGNED TO ALLOW FOR SECURE PRODUCT STORAGE, TO PROVIDE SECONDARY CONTAINMENT, AND COVERED.

A HAZARDOUS MATERIAL INVENTORY AND MSDS SHOULD BE KEPT ON RECORD AT ALL TIMES FOR SPCC/ISCP AND EPCRA REQUIREMENTS. THE INVENTORY MUST INCLUDE ALL PETROLEUM PRODUCTS, CHEMICALS, HERBICIDES, PESTICIDES, FERTILIZERS, DETERGENTS, PAINTS AND ANY OTHER HAZARDOUS SUBSTANCES USED AND/OR STORED BY THE CONTRACTOR/PROPONENT ON THE PROJECT SITE.

FOR WATER QUALITY:

NO DEMOLITION/CONSTRUCTION WASTE OR EXCESS CONSTRUCTION MATERIALS OF ANY KIND CAN BE DUMPED TO THE SANITARY SEWER SYSTEM, THE STORM SEWER SYSTEM, OR BE DISPOSED TO THE GROUND INCLUDING PAINT, PAINT PRIMER, PAINT THINNER, PAINT STRIPPER, SOLVENTS, ACIDS, BASES, OILS, GREASES, ADHESIVES, GLUES, PASTES, SEALANTS, SOLDER, CAULKING, GROUT, PUTTY, WAXES, SHEET ROCK, INSULATION, CARPET, CARPET PADDING, ACETATE, TILE, COOLANT, CORROSION INHIBITOR, CLEANING COMPOUNDS, HERBICIDES, TERMITICIDES, FUNGICIDE, WEED KILLERS, PESTICIDES.

BMP's FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS:

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF ON-SITE ABOVE GROUND STORAGE OF PETROLEUM, OIL, AND LUBRICANT (POL) PRODUCTS EXCEEDS 1,320 GALLONS, COUNTING CONTAINERS OF 55-GALLONS OR LARGER (THIS INCLUDES CAPACITIES OF EQUIPMENT), OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL BE REQUIRED TO HAVE A SITE SPECIFIC SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES (SPCC) PLAN AT THE STATE LEVEL PREPARED AND SEALED BY A CERTIFIED DESIGN PROFESSIONAL (P.E.) IN ACCORDANCE WITH 40 CFR 112 AND APPROVED BY THE LOCAL ISSUING AUTHORITY AND/OR STATE OF GEORGIA EPD.

THE CONTRACTOR IS REQUIRED TO PROVIDE SPECIFIC MEASUREMENTS TO MEET THE SPCC REQUIREMENTS IN THE ENVIRONMENTAL PROTECTION PLAN (EPP). THIS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO IS ACTUALLY CONDUCTING THE CONSTRUCTION PHASE.

TO ENSURE THAT BEST MANAGEMENT PRACTICES (BMPs) FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS ARE SUITABLE, THE PRIMARY PERMITTEE (OPERATOR/CONTRACTOR) SHALL PROVIDE AND IMPLEMENT THE FOLLOWING SPILL CONTINGENCY PLAN REQUIREMENTS, WHICH ALSO MEET GAR 100001 - PART III.B.1.&2.; PART IV. (iii) [SECOND PARAGRAPH]; D.2.c.(1), (3) & (4); PART IV.D.3.(1); GAR 000000 NPDES INDUSTRIAL REQUIREMENTS. THIS SECTION ALSO COVERS REQUIREMENTS FOR HAZARDOUS WASTE AND PEST MANAGEMENT.

(a.) DESCRIPTION OF MEASURES TO REDUCE / PREVENT / MINIMIZE SPILL / RELEASES OF HAZARDOUS MATERIALS STORED AND USED AT THE SITE DURING CONSTRUCTION ACTIVITIES AND TO SHOW THEIR LOCATION IN A MAP;

(b.) LOCATION OF HAZARDOUS MATERIALS STORAGE AREAS; INCLUDING TANKS AND REFUELING OPERATIONS;

(c.) SPECIFIC INFORMATION OF THE CONTRACTOR'S EMERGENCY RESPONSE TEAM AND CLEAN-UP PROCEDURES TO BE PROVIDED IN THE ENVIRONMENTAL PROTECTION PLAN (EPP). CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL EMERGENCY RESPONSE ACTIONS AT THE SITE, TO INCLUDE REMOVAL AND DISPOSAL OF CONTAMINATED MATERIALS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY AND REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

SPILL CLEANUP AND CONTROL PRACTICES:

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO ALL ON-SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS.
- TYPICAL MATERIALS AND EQUIPMENT INCLUDE, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

GSWCC AND NPDES NOTES (CONT'D.):

SPILL CLEANUP AND CONTROL PRACTICES (CONT'D):

- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. THE CONTRACTOR SHOULD ALSO NOTIFY THE FOLLOWING OF ALL SPILL / RELEASES AND ALL CORRECTIVE ACTIONS TAKEN AFTER A SPILL / RELEASE AS REQUIRED:
- FOR EMERGENCY ASSISTANCE FROM THE FIRE DEPARTMENT CONTACT 911;
- FOR SPILLS THAT IMPACT SURFACE WATER (I.E. LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED AT (800) 424-8802 / (202) 267-2675;
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED AT (800) 424-8802 / (202) 267-2675;
- FOR SPILLS GREATER THAN 25-GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION (EPD) SHALL 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

26. DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

MEASURES INCLUDE A COMBINATION OF VEGETATED SWALES AND NATURAL DEPRESSIONS FOR FLOW ATTENUATION, LANDSCAPED AND TURF AREAS THAT WILL REDUCE SOIL AND SEDIMENT RUNOFF.

STORM WATER MANAGEMENT FOR DEVELOPMENT OF THE PROJECT SITE WILL BE ACCOMPLISHED AFTER FINAL SITE CONDITIONS ARE ESTABLISHED BY MEANS OF AN EXISTING DETENTION POND THAT WAS DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE FINAL DEVELOPMENT OF THIS PROPERTY. A HYDROLOGY REPORT TITLED "STORMWATER MANAGEMENT REPORT ADDENDUM FOR DISCOVER MILLS" DATED 11/27/2000 WAS PREPARED FOR DESIGN OF THE DETENTION SYSTEM AND IS ON FILE WITH THE GWINNETT COUNTY PLANNING AND DEVELOPMENT DEPARTMENT.

BY PROVIDING POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES, WHICH SHALL PROVIDE PERPETUAL MANAGEMENT OF RUNOFF QUALITY AND QUANTITY, THESE MEASURES WILL ENSURE THAT THE RECEIVING STREAM'S BIOLOGICAL, CHEMICAL, AND PHYSICAL CHARACTERISTICS AND FUNCTIONS ARE PROTECTED AND THAT NATURAL STREAM FUNCTIONS ARE MAINTAINED AND PROTECTED.

27. DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE:

THE CONTRACTOR MUST PROVIDE MEASURES, SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

28. DESCRIPTION OF THE PRODUCT SPECIFIC PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES:

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.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF ON-SITE ABOVE GROUND STORAGE OF PETROLEUM, OIL, AND LUBRICANT (POL) PRODUCTS EXCEEDS 1,320 GALLONS, COUNTING CONTAINERS OF 55-GALLONS OR LARGER (THIS INCLUDES CAPACITIES OF EQUIPMENT), OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. IN SUCH A CASE, THE CONTRACTOR WILL BE REQUIRED TO HAVE A SITE SPECIFIC SPILL PREVENTION, CONTAINMENT, AND COUNTERMEASURES (SPCC) PLAN AT THE STATE LEVEL PREPARED AND SEALED BY A CERTIFIED DESIGN PROFESSIONAL (P.E.) IN ACCORDANCE WITH 40 CFR 112 AND APPROVED BY THE LOCAL ISSUING AUTHORITY AND/OR STATE OF GEORGIA EPD.

PAINTS / FINISHES / SOLVENTS:
ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FERTILIZER / HERBICIDES:
THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE FOLLOWING: MANUFACTURER'S SPECIFICATIONS; THE GUIDELINES SET FORTH FOR THE ESTABLISHMENT OF CROPS; THE GUIDELINES SET FORTH IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION; AND/OR, GWINNETT COUNTY STANDARDS AND SPECIFICATIONS, CURRENT EDITION. 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 ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH PROPER WASTE DISPOSAL PROCEDURES.

GSWCC AND NPDES NOTES:(CONT'D.)

29. CONSTRUCTION SCHEDULE:

THE ANTICIPATED START DATE FOR PHASE 1 0F THE PROJECT IS JAN 2021 AND IS EXPECTED TO HAVE AN APPROXIMATE TIME DURATION SEVEN MONTHS FOR A CONSTRUCTION COMPLETION DATE OF AUG 2021. REFER TO SHEET NUMBER 51-0005 FOR THE PROPOSED SITE WORK CONSTRUCTION ACTIVITY SCHEDULE FOR A DESCRIPTION AND CHART / 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 INSTALLATION ACTIVITIES, TEMPORARY AND FINAL STABILIZATION, ETC...).

30. DETAILS ON COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE:

INSPECTIONS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.4.):

a. PERMITTEE REQUIREMENTS.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL, PROVIDED BY THE PRIMARY PERMITTEE, SHALL INSPECT:

(a.) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT;
(b.) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND,
(c.) MEASURE RAINFALL ONCE EACH 24-HOUR PERIOD AT THE SITE.

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):

(a.) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION;
(b.) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND,
(c.) STRUCTURAL CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.3.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(3). QUALIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT

31. DETAILS ON COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.d.):

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

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

GSWCC AND NPDES NOTES (CONT'D.):

(b). THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

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

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

(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

(d.) WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE) THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.a(6), MUST INCLUDE A WRITEEN JUSTIFICATION IN THE INSPECTION REPORT HWY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND

(e.) EXISTING CONSTRUCTION AVTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES, OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.E.):

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

a. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME(S) ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND,
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC. USED TO DETERMINE THESE RESULTS.
h. RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS EXCEEDS 1,000 NTU."

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

REVISION DATES

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	51-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KARAMES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

GSWCC AND NPDES NOTES:(CONT'D.)

32. COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

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

33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.b.):
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLING POINTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.c.):
FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.

34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.a.(3).):

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

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMP's) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. GAR100001.

THE SELECTED NTU VALUE OF 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 6 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF APPROXIMATELY 0.01 SQUARE MILES, AND THE PROJECT RECEIVING WATER, UNNAMED TRIBUTARY TO LEE DANIEL CREEK, WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE POINT #001:
IN THE INITIAL PHASE, SAMPLE POINT 001 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #1 (Sd4) OUTLET. SAMPLE POINT 001 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE C3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #002:
IN THE INITIAL PHASE, SAMPLE POINT 002 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #2 (Sd4) OUTLET. SAMPLE POINT 002 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE B3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #003:
IN THE INITIAL PHASE, SAMPLE POINT 003 IS THE OUTFALL SAMPLE POINT LOCATED AT THE EXISTING CATCH BASIN A5.3. SAMPLE POINT 003 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO PROPOSED MANHOLE A5.1, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

State of Georgia
Department of Natural Resources
Environmental Protection Division

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Permit No. GAR100002

APPENDIX B

Nephelometric Turbidity Unit (NTU) TABLES

Trout Streams

Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	[illegible]	[illegible]	75	150	300	[illegible]	500	500
10.01-25	25	25	[illegible]	[illegible]	[illegible]	200	500	500
25.01-50	25	25	[illegible]	[illegible]	75	100	300	500
50.01-100	20	25	25	35	[illegible]	75	150	300
100.01+	[illegible]	20	25	25	25	[illegible]	50	100

Waters Supporting Warm Water Fisheries

Surface Water Drainage Area, square miles

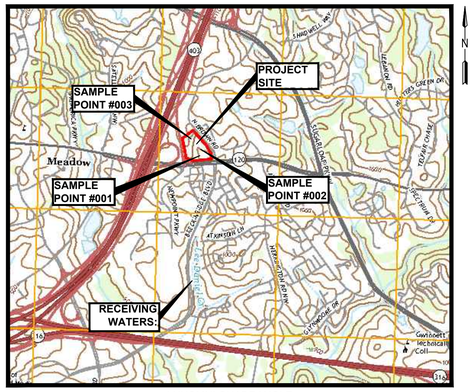
Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

35. FOR THE DELINEATION OF ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS, AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED, REFER TO SHEET NOs. 54-0001 THRU 54-0003 AND THE USGS TOPOGRAPHIC MAP BELOW.



LUXOMNI QUADRANGLE
GEORGIA
7.5 MINUTE SERIES

GSWCC AND NPDES NOTES (CONT'D.):

36. DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

EROSION CONTROLS AND MEASURES - INITIAL PHASE (INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAM (Rd), WHERE REQUIRED IN AREAS OF CONCENTRATED FLOW; SEDIMENT TRAPS (Sd4) FOR SEDIMENT STORAGE, INLET SEDIMENT TRAPS - CURB INLET PROTECTION (Sd2-P) TO PROTECT EXISTING STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND, DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2).

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW

INTERMEDIATE PHASE BMPs MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

37. FOR GRAPHIC SCALE AND NORTH ARROW, REFER TO SHEET NO. 54-0001 THRU 54-0003.

38. FOR EXISTING AND PROPOSED CONTOUR LINES, REFER TO SHEET NO. 54-0001 THRU 54-0003.

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) SHALL NOT BE UTILIZED FOR THIS PROJECT.

IF THE USE OF ALTERNATIVE EROSION AND SEDIMENT CONTROL BMPs IS DETERMINED NECESSARY BY ON-SITE INSPECTION AND/OR AS FIELD CONDITIONS DICTATE TO CONTROL OR TREAT THE SEDIMENT SOURCE, REFERENCE SHALL BE MADE TO THE "ALTERNATIVE BMP GUIDANCE DOCUMENT" FOUND AT <www.gaswcc.org>.

40. USE OF ALTERNATIVE BMP FOR APPLICATION TO EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 2016 EDITION. NO ALTERNATIVE BMP'S ARE PROPOSED FOR THIS DEVELOPMENT.

41. APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY/ GA EPD ARE DELINEATED ON SHEETS 54-0001 THRU 54-0003.

REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV):

(i.) 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS;
(ii.) 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; AND,
(iii.) 100-FOOT UNDISTURBED BUFFERS FOR PROJECTS IN THE VICINITY OF THE CHATTAHOOCHEE RIVER.

THIS PROJECT PROPOSES NO BUFFER ENCROACHMENT WITHIN THE STATE STREAM BUFFER; THEREFORE, THERE ARE NO REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV), OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY.

NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW, OR WAVE ACTION, EXCEPT WHERE A SBV IS APPROVED BY GA EPD.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES SHALL BE USED. THIS REQUIREMENT MUST BE IMPLEMENTED REGARDLESS OF WORK THAT IS APPROVED UNDER AN SBV, OR FOR A PROJECT THAT IS EXEMPT FROM AN SBV.

GSWCC AND NPDES NOTES (CONT'D.):

42. NO WETLANDS ARE ONSITE, HOWEVER WATERS OF THE STATE ARE LOCATED ON-SITE, OR WITHIN 200-FEET OF THE PROJECT LIMITS PER EPD VISIT. THE DELINEATION OF THESE ITEMS ARE SHOWN ON SHEET NO's. 54-0001 THRU 54-0003.

NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES, SHALL BE USED.

43. FOR THE DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE, REFER TO SHEET NO. 54-0001 FOR PRE AND SHEET NO. 54-0002 FOR POST. ALSO REFER TO SHEET 53-0001 FOR OVERALL BASIN ACREAGE AND FLOW.

44. HYDROLOGIC INFORMATION AND MAPS OF DRAINAGE BASINS FOR THE MASTER DETENTION POND IN BOTH THE PRE- AND POST-DEVELOPED CONDITIONS ARE PROVIDED IN THE ORIGINAL HYDROLOGY REPORT PREPARED FOR THE DISCOVER MILLS DEVELOPMENT. REFERENCE THE FOLLOWING "STORM WATER MANAGEMENT REPORT ADDENDUM FOR DISCOVER MILLS (a.k.a. SUGARLOAF MILLS), PREPARED BY PRECISION PLANNING, DATED 11-27-2000.

45. ESTIMATE OF THE RUNOFF COEFFICIENT, OR PEAK DISCHARGE FLOW OF THE SITE, PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:

SITE RUNOFF COEFFICIENTS	
DESCRIPTION	**C**
WEIGHTED PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.12
WEIGHTED POST-CONSTRUCTION RUNOFF COEFFICIENT	0.82

46. FOR STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION, REFER TO THE THE STORM DRAIN OUTLET PROTECTION DETAIL ON SHEET NO. 56-0002.

FOR THE IDENTIFICATION / DELINEATION OF ALL STORM WATER DISCHARGE POINTS, REFER TO SHEET NO. 54-0001 THRU 54-0003.

47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION:

A. REFER TO THE SOIL SERIES INFORMATION CHART BELOW.

B. REFER TO SHEET NOs. 54-0001 THRU 54-0003 FOR PROJECT SITE SOIL SERIES BOUNDARY DELINEATIONS.

C. REFERENCES:
1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, 6 JUNE 2017. <http://websoilsurvey.nrcs.usda.gov/>

SOIL SERIES INFORMATION		
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC GROUP
AmC2	APPLING SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, ERODED	B
CfS	CHEWACLA SILT LOAM, 0 TO 2 SLOPES, FREQUENTLY FLOODED	B/D
CYB2	CECIL SANDY LOAM, 2 TO 4 PERCENT SLOPES, MODERATELY ERODED	B
CYC2	CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED	B
HdB	HARD LABOR SANDY LOAM, 2 TO 4 PERCENT SLOPES	C
LdC	LLOYD LOAM, 6 TO 10 PERCENT SLOPES	B
WrE2	WEDOWEE SANDY LOAM 10 TO 24 PERCENT SLOPES, ERODED	B

48. FOR THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION, REFER TO SHEET NO. 54-0001 THROUGH 54-0003.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

REVISION DATES
05/06/19

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		51-0004
VERIFIED:		DATE:		

REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDS

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

GSWCC AND NPDES NOTES:(CONT'D.)

49. MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED FOR EACH COMMON DRAINAGE LOCATION PER PHASE OF EROSION AND SEDIMENT CONTROL:

NOTES:

1. PERENNIAL AND INTERMITTENT WATERS OF THE STATE SHALL NOT BE USED FOR TEMPORARY OR PERMANENT SEDIMENT DETENTION.

2. MAINTENANCE AND FINAL DISPOSAL OF EXCAVATED INLET SEDIMENT TRAPS (Sd2-E) IMPLEMENTED AT THE PROJECT SITE WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION (GASWCC) MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 5th EDITION - REQUIREMENTS AS IDENTIFIED ON PAGES 6-139 AND 6-140 OF THE MANUAL; AND/OR, THE LATEST REVISION.

3. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

4. FOR SEDIMENT STORAGE CALCULATIONS FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL, REFER TO SHEET NO. 56-0006 AND 56-0009

REQUIRED SEDIMENT STORAGE SHALL BE ACCOUNTED FOR BY USE OF THE FOLLOWING BMP's DURING THE CORRESPONDING PHASE OF EROSION AND SEDIMENT CONTROL:

SEDIMENT STORAGE BMPs - INITIAL PHASE:

TWO TEMPORARY SEDIMENT TRAPS (Sd-4) WILL BE CONSTRUCTED AT THE SOUTH END OF THE SITE AND WILL BE UTILIZED AS LONG AS CONSTRUCTION PERMITS . REFER TO SHEET 54-0001 FOR SEDIMENT TRAP LOCATIONS. REFER TO SHEET 56-0009 FOR TEMPORARY SEDIMENT TRAP CALCULATIONS.

SEDIMENT STORAGE BMPs - INTERMEDIATE PHASE:

MAINTAIN TEMPORARY SEDIMENT TRAPS (Sd-4) AS LONG AS CONSTRUCTION PERMITS CONSTRUCT EXCAVATED SEDIMENT TRAPS (Sd2-E) AT ALL PROPOSED STORM DRAINAGE STRUCTURES. REFER TO SHEET NO. 54-0002 FOR BMP LOCATIONS. REFER TO SHEET NO. 56-0006 FOR EXCAVATED SEDIMENT TRAP CALCULATIONS

SEDIMENT STORAGE BMPs - FINAL PHASE:

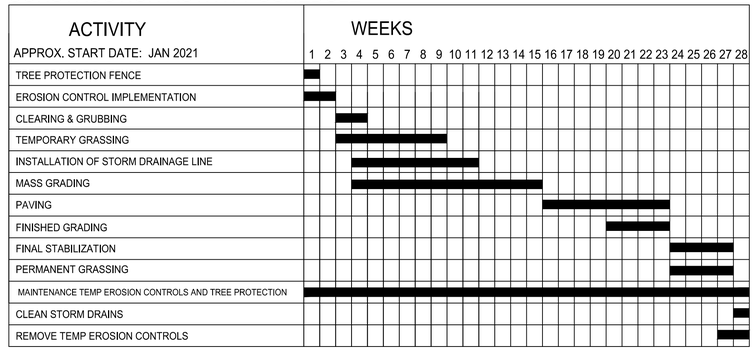
EXCAVATED SEDIMENT TRAPS (Sd2-E) WILL BE MAINTAINED AT ALL STORM DRAINAGE STRUCTURES UNTIL FINAL STABILIZATION IS ACHIEVED. THE EXISTING DETENTION POND WILL PROVIDE PERMANENT DETENTION AND WATER QUALITY TREATMENT FOR THE FULLY DEVELOPED SITE. REFER TO SHEET NO. 54-0003 FOR BMP LOCATIONS.

50. FOR PHASED EROSION AND SEDIMENT CONTROL PLANS (I.E. INITIAL PHASE INTERMEDIATE PHASE, AND FINAL PHASE) SHOWING THE LOCATION OF BEST MANAGEMENT PRACTICES (BMPs) THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, USING UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, REFER TO SHEET NO's. 54-0001 THRU 54-0003. FOR UNIFORM CODING SYMBOLS LEGEND, REFER TO SHEET NO's. 52-0001 THRU 52-0007.

51. FOR DETAILED DRAWINGS OF EROSION AND SEDIMENTATION CONTROL STRUCTURAL PRACTICES, REFER TO SHEET NO's. 56-0001 THRU 56-0009.

52. FOR A SITE SPECIFIC VEGETATIVE PLAN NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES, INCLUDING SPECIES, PLANTING DATES, AND SEEDING, FERTILIZER, AND MULCHING RATES, REFER TO THE "SOUTHERN PIEDMONT VEGETATION PLAN" Ds1 AND Ds2 DETAIL ON SHEET NO. 56-0001.

CONSTRUCTION ACTIVITY SCHEDULE



CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

REVISION DATES

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		51-0005
VERIFIED:		DATE:		

ATKINS
Member of the SNC-Lavalin Group
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

3/3/2016 11:35:14 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE LINE CODE ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
ESA	ENVIRONMENTALLY SENSITIVE AREA LINE CODE ESA-25'(OR 50')STREAM BUFFER, ETC.		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
Bf	BUFFER ZONE SYMBOL Bf	Bf Bf	A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
Ds1	MULCH SECTION 163 SYMBOL Ds1		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163, 700 SYMBOL Ds2		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds3	PERMANENT GRASSING SECTION 700 SYMBOL Ds3		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890 PATTERN Ds4		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895 SYMBOL Fl-Co POLYACRYLAMIDE		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
Sb	STREAMBANK STABILIZATION SECTION 702 PATTERN Sb		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-001

7/31/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

PROPERTY LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C — F —
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS — BLA
END LIMIT OF ACCESS — ELA
EXIST. LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 52-0001

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN Ss		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895 SYMBOL Tac POLYACRYLAMIDE		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 SYMBOL Cd-F	FLOW	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Fs	FLOW	A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Hb	FLOW	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603 SYMBOL Cd-S		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE Ch-1		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R1		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R3		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-002

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA	
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA	
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS		
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS		
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE		
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

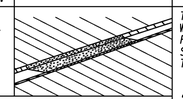
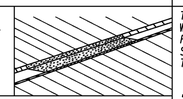
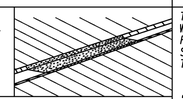
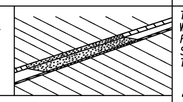
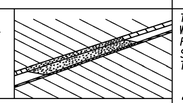
REVISION DATES

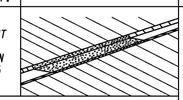
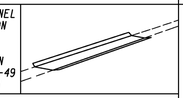
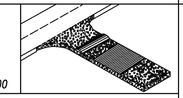
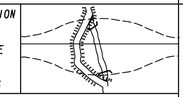
EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 52-0002

3/3/2016 11:35:14 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
dengleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441 LINE CODE		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800 SYMBOL		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 LINE CODE		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-003

7/31/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Dec 17, 2020
AUTHORIZED

PROPERTY LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
EXIST. LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	

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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

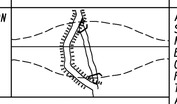
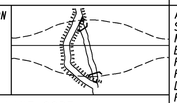
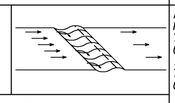
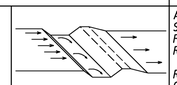
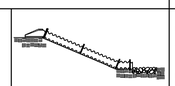
REVISION DATES

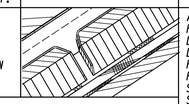
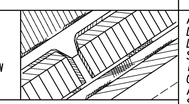
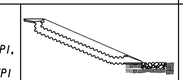
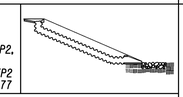
EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 52-0003

3/3/2016 11:35:15 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163 LINE CODE —D——D——D—(Dc-B)—D——D——D—		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163 LINE CODE —D——D——D—(Dc-C)—D——D——D—		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dl-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205 LINE CODE (Dl-1)		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS "Dn1"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
Dl-2	DIVERSION CHANNEL SECTION 205 LINE CODE (Dl-2)		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163 LINE CODE —T——T——T—(Dn1)—T——T——T—		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 LINE CODE (Dn2-A)		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 LINE CODE (Dn2-B)		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577 LINE CODE (Dn2-1)		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS. ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577 LINE CODE (Dn2-2)		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-004

7/31/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
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Dec 17, 2020
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Dec 17, 2020
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REQUIRED R/W LINE
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EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS BLA
END LIMIT OF ACCESS ELA
EXIST. LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE

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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

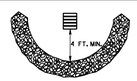
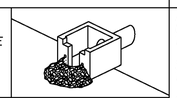
EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

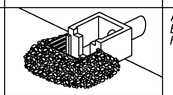
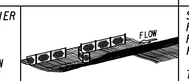
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0004

10/23/2015 GPLN
Nov 18, 2020 - 6:39am
C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_52-0001.dwg

3/3/2016 11:35:15 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163 SYMBOL: Fr		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603 SYMBOL: Rd		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603 LINE CODE: —A—A—A—Rd-B—A—A—A—		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
Rp	RIP-RAP SECTION 603 PATTERN: Rp		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163 SYMBOL: Rt-P		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163 SYMBOL: Rt-B		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163 SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3	 FRONT VIEW	A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sdi-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —A—A—A—Sdi-NS—A—A—A—		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
Sdi-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —C—C—C—Sdi-S—C—C—C—		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-005

7/3/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA	
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA	
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS		
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS		
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE		
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group
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1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

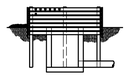
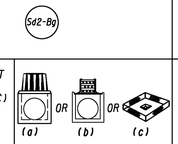
REVISION DATES

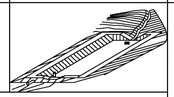
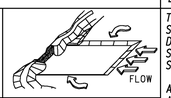
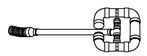
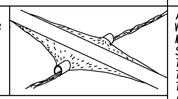
EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 52-0005

3/3/2016 11:35:16 AM GPLOT-V8 ECL_GSWCC-2016-Edition_Rev03-01-2016.dgn P.I. No.
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201 LINE CODE * * * Sd1-BB * * *		THIS ITEM CONSISTS OF INTERWINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-B		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-Bg		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-F		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163 SYMBOL Sd2-G		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sd3		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163 SYMBOL Sd4-C		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sk		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
Sr	TEMPORARY STREAM CROSSING SECTION 107 SYMBOL Sr		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-006

7/31/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

PROPERTY LINE	BEGIN LIMIT OF ACCESS	BLA	
REQUIRED R/W LINE	END LIMIT OF ACCESS	ELA	
CONSTRUCTION LIMITS	EXIST. LIMIT OF ACCESS		
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS		
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE		
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group
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1600 RiverEdge Parkway NW, Ste. 700
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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

DRAWING No. 52-0006

10/23/2015 GPLN Nov 18, 2020 - 6:39am C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_52-0001.dwg

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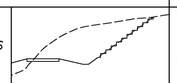
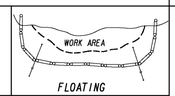
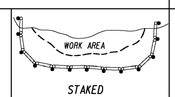
deagleton gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	SYMBOL St	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603	PATTERN FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL	RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 <= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 <= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	 LINE CODE Su	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING LINE CODE Tc-F	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED LINE CODE Tc-S	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-007

7/3/2015 GPLN

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Dec 17, 2020
AUTHORIZED

PROPERTY LINE		BEGIN LIMIT OF ACCESS	BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS	ELA
CONSTRUCTION LIMITS	C F	EXIST. LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		ORANGE BARRIER FENCE	
EASEMENT FOR CONSTR OF DRIVES			

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

EROSION CONTROL AND UNIFORM CODES
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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

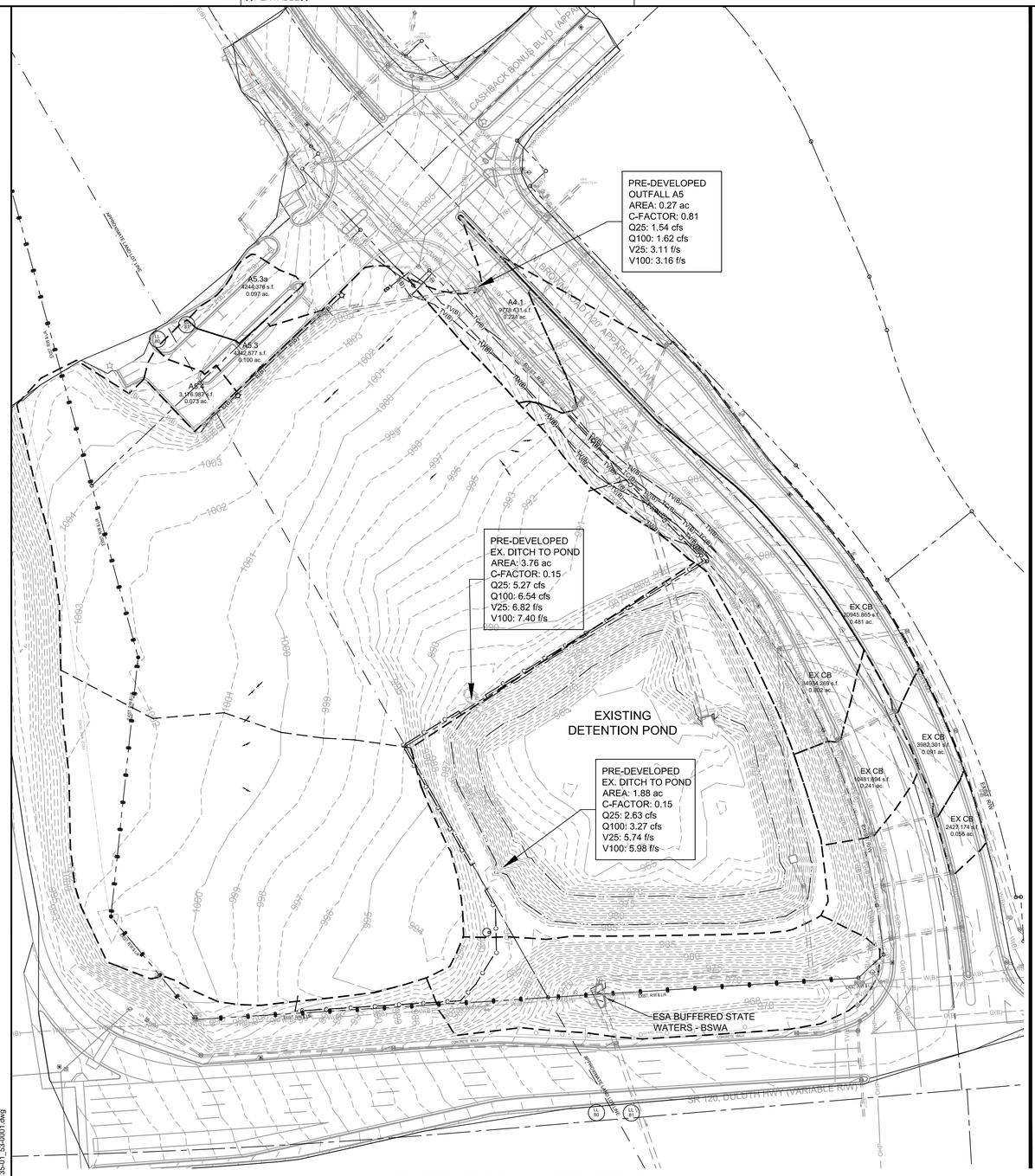
DRAWING No. 52-0007

10/23/2015 GPLN Nov 18, 2020 - 6:39am C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_52-0001.dwg

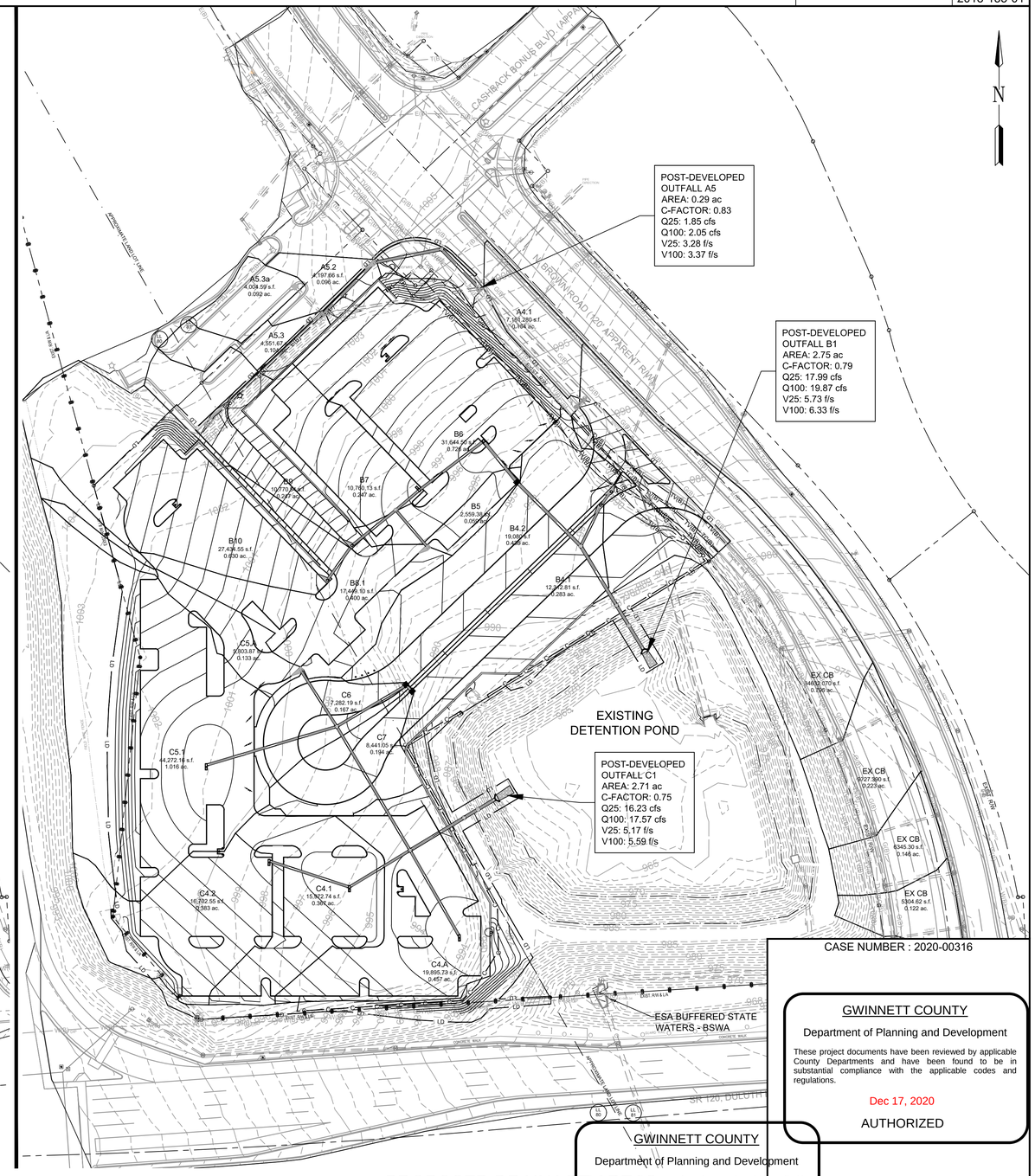
DATE$$$ Nov 18, 2020 - 6:40am TIME$$$ $PRF8$ DGN

$USER$ C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_53-0001.dwg $$PENTABLE$$

P.I. No. 2018-135-01



EXISTING DRAINAGE AREAS



PROPOSED DRAINAGE AREAS

CASE NUMBER : 2020-00316

GWINNETT COUNTY
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AUTHORIZED

GWINNETT COUNTY
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Dec 17, 2020
AUTHORIZED

PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
DROP INLETS	
STORM MANHOLE	
SPOT ELEVATIONS	+ 94.50

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKUNDI

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

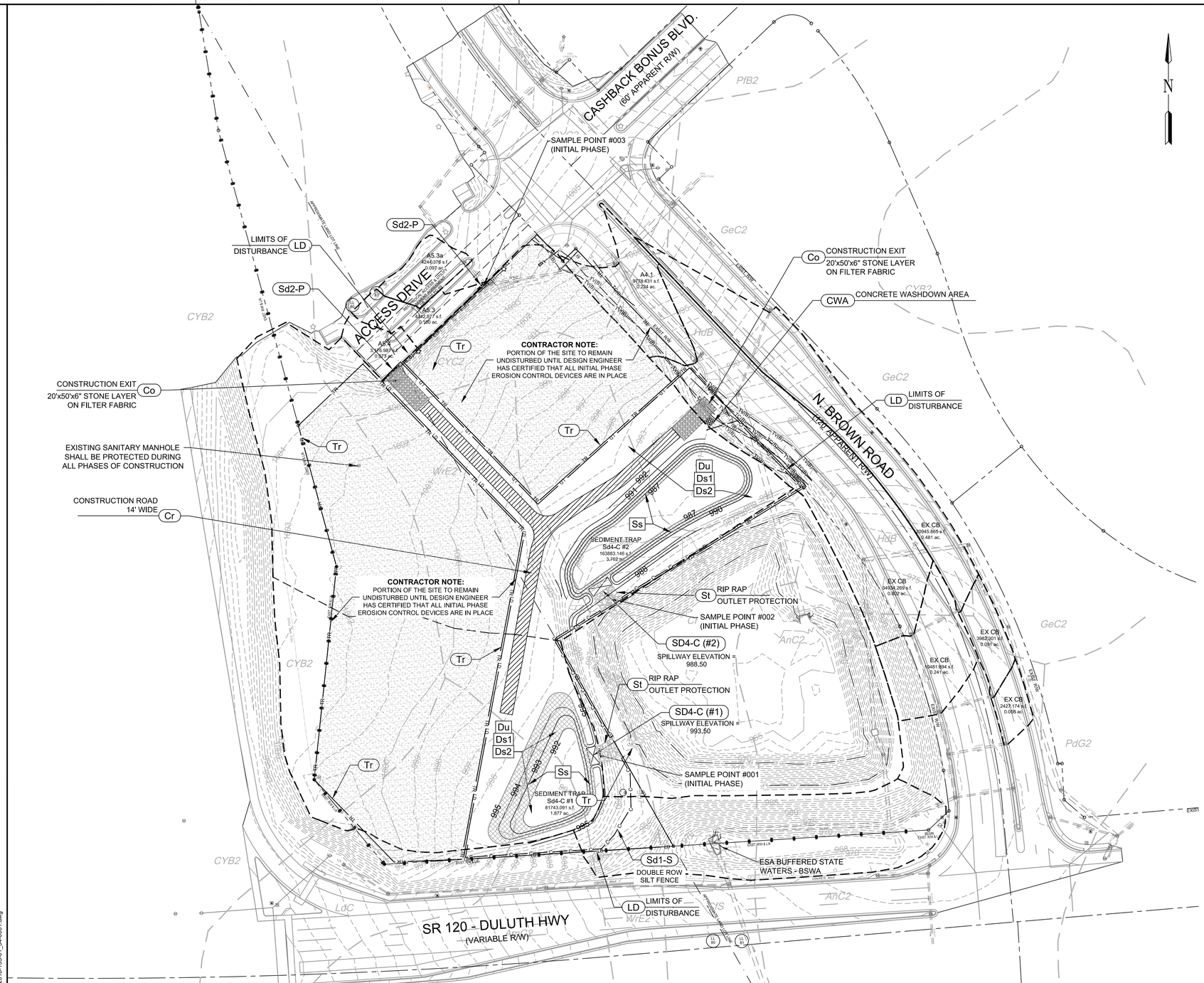
ESPCP
DRAINAGE AREA MAP

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		53-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

Nov 18, 2020 - 6:40am
C:\pw_work\atknaga01\rich8152\dms27175\2018-135-01_53-0001.dwg



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-NS	SEDIMENT BARRIER - SILT FENCE ("TYPE A - NON SENSITIVE") — A —
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE") — C —
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT TRAP WITH ROCK OUTLET
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Tr	TREE PROTECTION FENCE — TR —
— LD —	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE
	ESA BUFFERED STATE WATERS

PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKUNES

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - INITIAL PHASE:

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES
SILT FENCE "TYPE-C" (Sd1-S AND Sd1-NS) FOR PERIMETER CONTROL;
TEMPORARY SEDIMENT TRAPS (Sd-4) FOR SEDIMENT STORAGE
INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES;
DUST CONTROL ON DISTURBED AREAS (Du);
SLOPE STABILIZATION (Ss) FOR AREAS INDICATED DISTURBED AREA STABILIZATION WITH TEMPORARY MULCHING ONLY(Ds1) AND/OR DISTURBED AREA STABILIZATION TEMPORARY SEEDING (Ds2).

INITIAL PHASE BMP's SHALL BE MAINTAINED AS LONG AS CONSTRUCTION PERMITS.

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
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Dec 17, 2020
AUTHORIZED

PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
DROP INLETS	
STORM MANHOLE	
SPOT ELEVATIONS	+ 94.50

PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKUNES

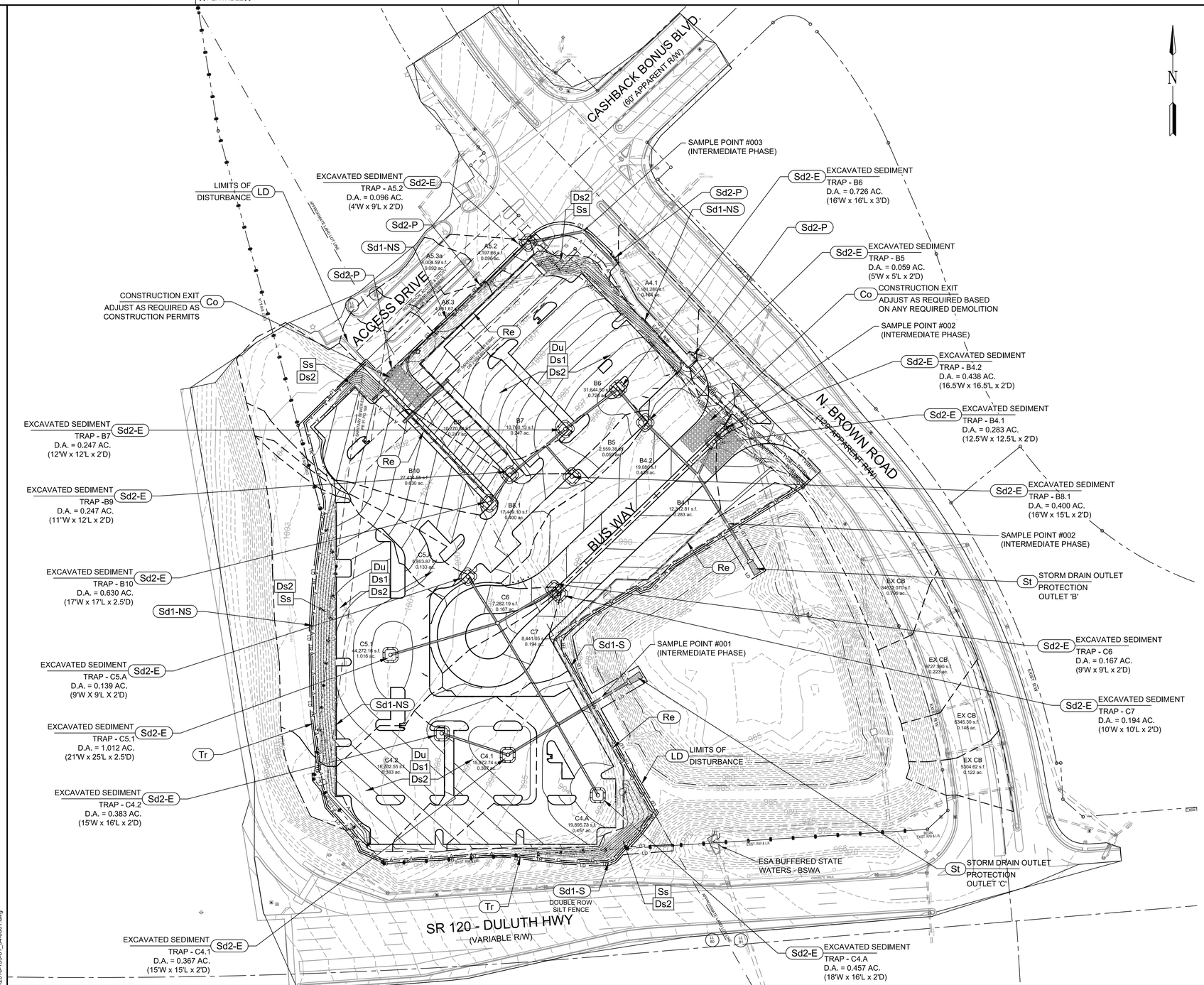
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

ESPCP
LOCATION DETAILS
PHASE I
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-NS	SEDIMENT BARRIER - SILT FENCE ("TYPE A - NON SENSITIVE") — A —
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE") — C —
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT BASIN
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Tr	TREE PROTECTION FENCE — TR —
LD	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMP's):
CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW.

INTERMEDIATE PHASE BMP's MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED.

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
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Dec 17, 2020
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PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
EX MAJOR CONTOUR	
EX MINOR CONTOUR	
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	
HEADWALL	
DROP INLETS	
STORM MANHOLE	
SPOT ELEVATIONS	94.50

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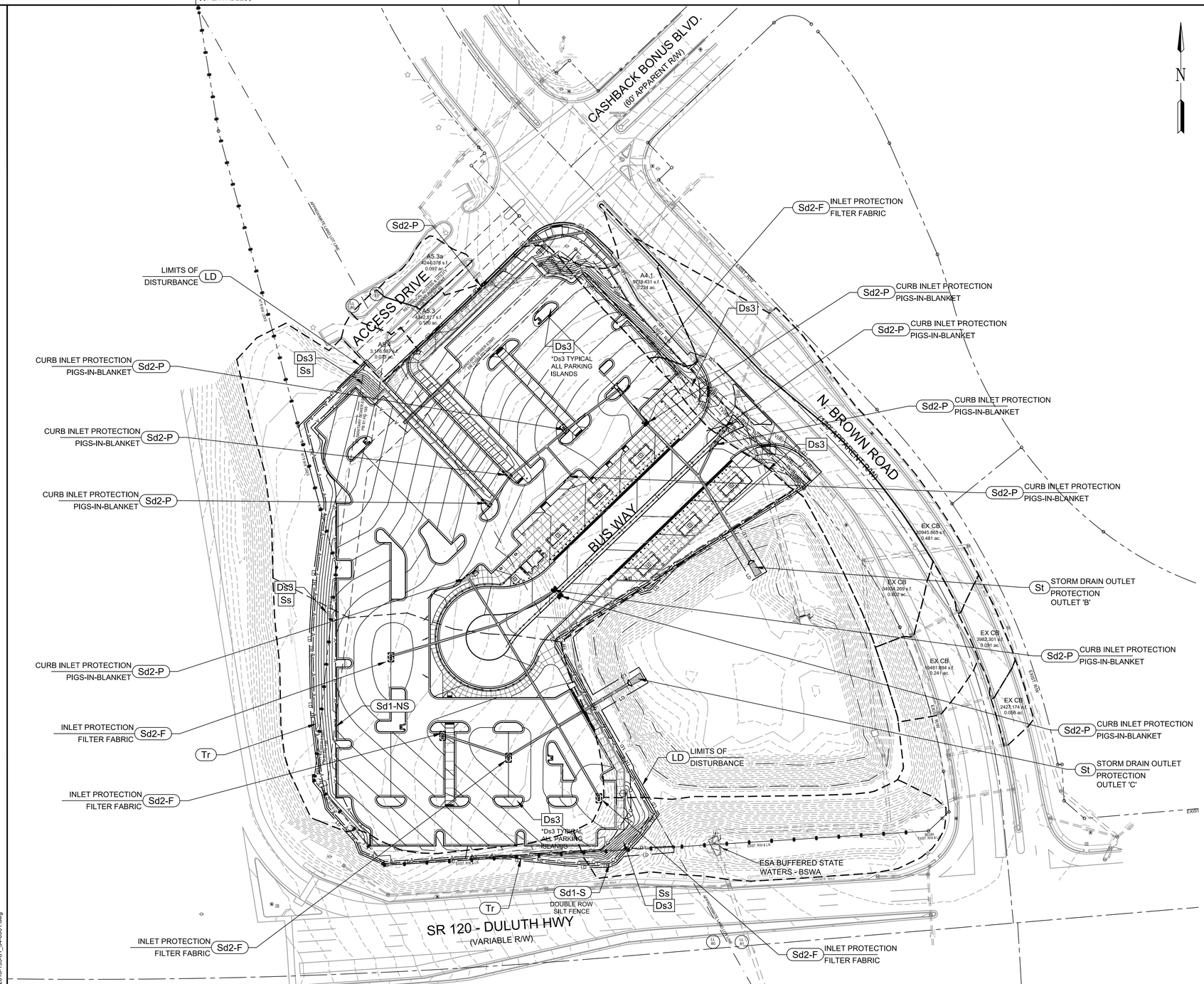
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES

ESPCP
LOCATION DETAILS
PHASE II
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-NS	SEDIMENT BARRIER - SILT FENCE ("TYPE A - NON SENSITIVE")
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE")
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT BASIN
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Tr	TREE PROTECTION FENCE
LD	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.

CASE NUMBER : 2020-00316

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Dec 17, 2020
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PROPOSED MAJOR CONTOUR	HEADWALL
PROPOSED MINOR CONTOUR	DROP INLETS
EX MAJOR CONTOUR	STORM MANHOLE
EX MINOR CONTOUR	SPOT ELEVATIONS (94.50)
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	

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Expiration Date 06/30/2022

(IN FEET)
1 inch = 60 ft.

REVISION DATES

ESPCP LOCATION DETAILS PHASE III

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	54-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	

Ds1 - DISTURBED AREA STABILIZATION (w/ MULCHING ONLY)		
MATERIAL	BROADCAST RATE	MATERIAL DEPTH
DRY STRAW (OR, HAY)	2-1/2 TONS / ACRE	2 - 4 INCHES
WOOD WASTE (CHIPS, SAWDUST, OR BARK)	6 - 9 TONS / ACRE	2 - 3 INCHES
CUTBACK ASPHALT (SLOW CURING)	1,200 GAL. / ACRE (1/4 GAL. / SQ.YD.)	-
POLYETHYLENE FILM	REFER TO MANUFACTURER'S RECOMMENDATIONS	-
GEOTEXTILES, JUTE MATTING, NETTING, ETC...	REFER TO MANUFACTURER'S RECOMMENDATIONS	-

NOTE:

REFER TO PAGES 6-33 AND 6-34 OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, FOR APPLICATION INFORMATION.

Ds1 **DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)** (NOT TO SCALE) 01 / 56-0001

Dust Control on Disturbed Areas

Du

DEFINITION

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

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

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

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 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 muck 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 that 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 that 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.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

Du **DUST CONTROL ON DISTURBED AREAS** (NOT TO SCALE) 02 / 56-0001

SOUTHERN PIEDMONT VEGETATION PLAN

Ds2 - DISTURBED AREA STABILIZATION W/ TEMPORARY SEED			
PLANTING DATES	TEMPORARY SEED SPECIES	BROADCAST RATE / ACRE	BROADCAST RATE / 1,000 sq.ft.
JAN. 1 - JAN. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
FEB. 1 - FEB. 29	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
MAR. 1 - MAR. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
APR. 1 - APR. 30	MILLET, BROWNTOP	40 LBS.	0.9 LBS.
MAY 1 - MAY 31	MILLET, BROWNTOP	40 LBS.	0.9 LBS.
JUN. 1 - JUN. 30	SUDANGRASS	60 LBS.	1.4 LBS.
JUL. 1 - JUL. 31	SUDANGRASS	60 LBS.	1.4 LBS.
AUG. 1 - AUG. 31	SUDANGRASS	60 LBS.	1.4 LBS.
SEP. 1 - SEP. 30	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
OCT. 1 - OCT. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
NOV. 1 - NOV. 30	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.
DEC. 1 - DEC. 31	RYEGRASS, ANNUAL	40 LBS.	0.9 LBS.

Ds2 - TEMPORARY VEGETATION / MULCHING

GENERAL:

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS, AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

TREATMENT SPECIFICATIONS:

(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1) GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, WITH STRAW OR HAY MULCH SPREAD UNIFORMLY OVER THE AREA LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT, OR BY HAND, AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT, OR A SPECIAL PACKER DISK, MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

LIME: APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE, OR AS RECOMMENDED BY SOIL TESTS.

FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

MULCHING RATES (FOR TEMPORARY VEGETATION):
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2.5 TONS PER ACRE.
3. WOOD CELLULOSE MULCH OR WOOD PULP FIBER: 500 LBS PER ACRE.

TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

SECOND YEAR FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

Ds3 - DISTURBED AREA STABILIZATION W/ PERMANENT SEED			
PLANTING DATES	TEMPORARY SEED SPECIES	BROADCAST RATE / ACRE	BROADCAST RATE / 1,000 sq.ft.
JAN. 1 - JAN. 31	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
FEB. 1 - FEB. 29	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
MAR. 1 - MAR. 31	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
APR. 1 - APR. 30	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
MAY 1 - MAY 31	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
JUN. 1 - JUN. 30	BERMUDA (HULLED)	10 LBS.	0.2 LBS.
JUL. 1 - JUL. 31	LESPEDEZA, SERICEA	75 LBS.	1.7 LBS.
AUG. 1 - AUG. 31	LESPEDEZA, SERICEA	75 LBS.	1.7 LBS.
SEP. 1 - SEP. 30	FESCUE, TALL	50 LBS.	1.1 LBS.
OCT. 1 - OCT. 31	FESCUE, TALL	50 LBS.	1.1 LBS.
NOV. 1 - NOV. 30	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.
DEC. 1 - DEC. 31	BERMUDA (UNHULLED)	10 LBS.	0.2 LBS.

Ds3 - PERMANENT VEGETATION / MULCHING

GENERAL:

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS, AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

TREATMENT SPECIFICATIONS:

(CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1) GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, WITH STRAW OR HAY MULCH SPREAD UNIFORMLY OVER THE AREA LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT, OR BY HAND, AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT, OR A SPECIAL PACKER DISK, MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

LIME: APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE, OR AS RECOMMENDED BY SOIL TESTS.

FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

MULCHING RATES (FOR PERMANENT VEGETATION):
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2.5 TONS PER ACRE.
3. WOOD CELLULOSE MULCH OR WOOD PULP FIBER: 500 LBS PER ACRE.

TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

SECOND YEAR FERTILIZER: REFER TO GASWCC TABLE 6-5.1 FOR FERTILIZER REQUIREMENTS.

Ds2 **DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)** (NOT TO SCALE) 03 / 56-0001

Ds3 **DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)** (NOT TO SCALE) 04 / 56-0001

Table 6-5.1. Fertilizer Requirements

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

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

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Dec 17, 2020
AUTHORIZED

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REGISTERED PROFESSIONAL ENGINEER No. 21371 GEORGIA GEORGE N. KARAVAS 11/20/2020

REVISION DATES

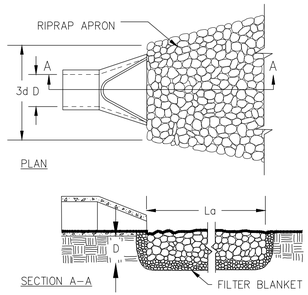
SPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

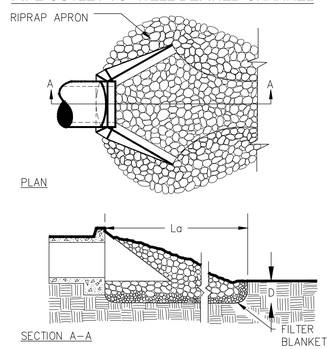
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



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

PIPE OUTLET TO WELL DEFINED CHANNEL

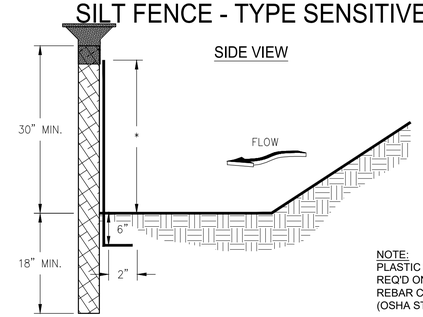


St — **STORM DRAIN OUTLET PROTECTION** (NOT TO SCALE) — 07 / 56-0002

FLOW CHARACTERISTICS					RIP-RAP APRON SIZING					
OUTFALL ID	PIPE DIA. (in)	FLOW RATE (cfs)	VELOCITY (ft/s)	TAILWATER CONDITION	APRON LENGTH La (ft)	WIDTH AT HEADWALL W1 (ft)	WIDTH DOWNSTREAM W2 (ft)	AVERAGE STONE DIA. D50 (in)	MAX. STONE DIA. Dmax (in)	STONE DEPTH D (in)
B-1	24	17.99	5.73	MAXIMUM	15.00	6.00	8.00	4	6	9
C-1	24	16.23	5.17	MAXIMUM	15.00	6.00	8.00	4	6	9

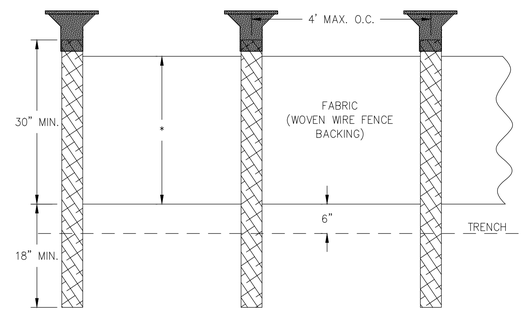
SILT FENCE - TYPE SENSITIVE

SIDE VIEW



NOTE:
PLASTIC PROTECTIVE CAP REQ'D ON ALL POSTS (TYP.)
REBAR CAP OR EQUIVALENT (OSHA STD. No. 1926.701(b)).

FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S — **SEDIMENT BARRIER SILT FENCE ("TYPE-C")** (NOT TO SCALE) — 05 / 56-0002

MAINTENANCE STATEMENT (Sd1-S):

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Table 6-27.2 Post Size

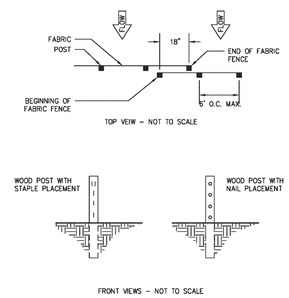
Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood Oak Steel	3"dia or 2x4 1.5" x1.5" 1.15lb./ft. min
S	4'	Steel Oak	1.15-1.25 lb./ ft. min 2"x2"

Table 6-27.3 Fasteners for Wood Posts

	Gauge	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/ Post
Nails	14 min.	1"	3/4"	4 min.
Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.				

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



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

Figure 6-27.5

GSWCC 2016 Edition 6-145

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Dec 17, 2020
AUTHORIZED

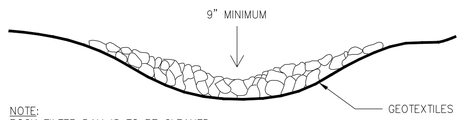
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
05/29/19

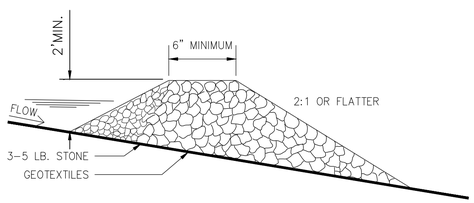
SPC DETAILS
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

ROCK FILTER DAM



NOTE:
ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

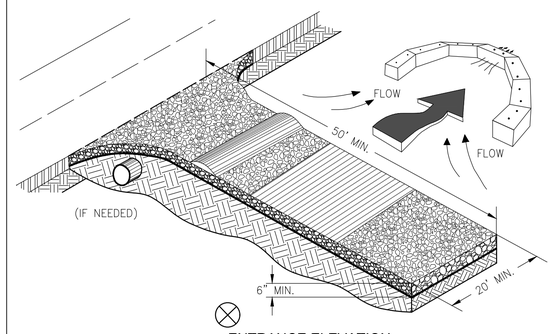


NOTE:
ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C.

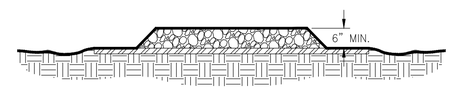
Rd **ROCK FILTER DAM** (NOT TO SCALE) 10 / 56-0003

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION



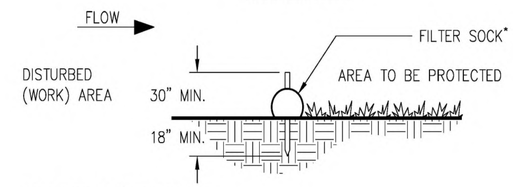
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co **CONSTRUCTION EXIT** (NOT TO SCALE) 09 / 56-0003

EROSION AND SEDIMENT CONTROL

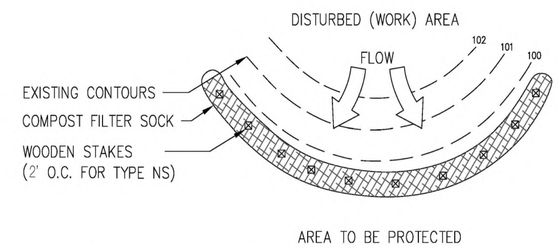
TYPE B COMPOST FILTER SOCK

CROSS-SECTION



NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS AND AT LEAST 18" DIA (SEE EQUIVALENT LIST)

PLAN



*HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

Figure 6-27.3

GSWCC 2016 Edition 6-143

Sd1-CFS **COMPOSITE FILTER SOCK - TYPE 'B'** (NOT TO SCALE) 22 / 56-0003

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
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Dec 17, 2020
AUTHORIZED

REVISION DATES

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1600 RiverEdge Parkway NW, Ste. 700
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Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

GEORGIA REGISTERED No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNIS

_SPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in:_____

2. Above 2.0 cfs: Yes_____ No_____

3. If Yes, list BMP being used in conjunction with check dams:_____

STONE CHECK DAM

SPACING BETWEEN CHECK DAMS

A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

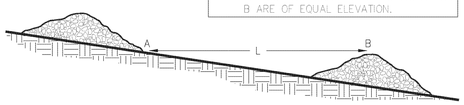
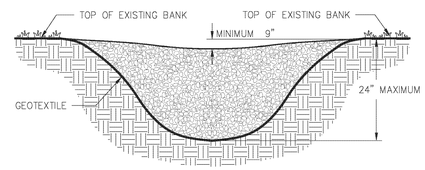


Figure 6-12.1

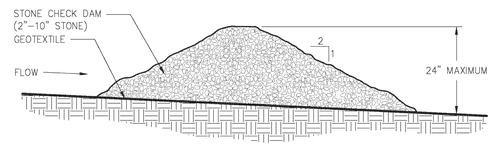
GSWCC 2016 Edition 6-81

STONE CHECK DAM

CROSS SECTION



PROFILE VIEW



NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288–96, SECTION 7.3, TABLE 3).

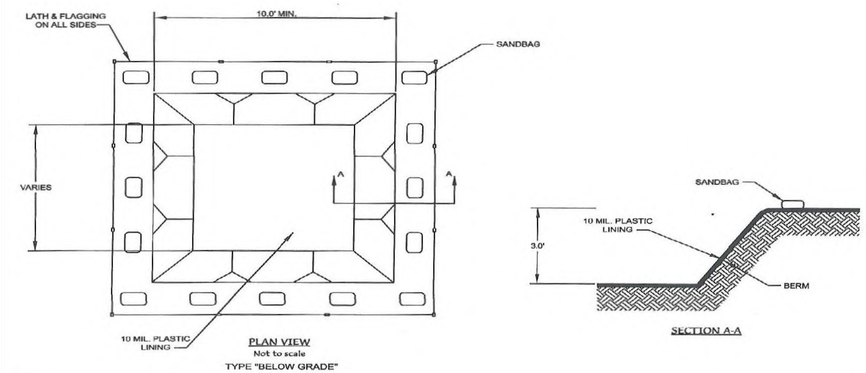
Figure 6-12.2

6-82 GSWCC 2016 Edition

Cd — **CHECK DAM** (NOT TO SCALE) — 11 / 56-0004

CONCRETE WASHDOWN

1. THE CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT FACILITY AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL SHOWN BELOW.
2. THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
3. WASH OUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS, AND OTHER EQUIPMENT SHALL NOT BE DISCHARGED INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
4. EXCESS CONCRETE SHALL NOT BE DISPOSED OF ON SITE. ALL EXCESS CONCRETE SHALL BE TRANSPORTED OFF-SITE AND DISPOSED OF PROPERLY.
5. IT IS PROHIBITED TO WASH OUT THE MIXING DRUM OF CONCRETE TRUCKS ON-SITE.



CWA — **CONCRETE WASHDOWN AREA** (NOT TO SCALE) — 21 / 56-0009

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Department of Planning and Development
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AUTHORIZED

REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KARUNES

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

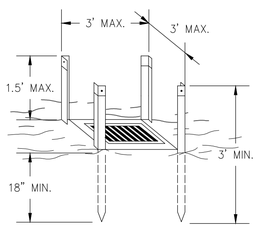
SPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

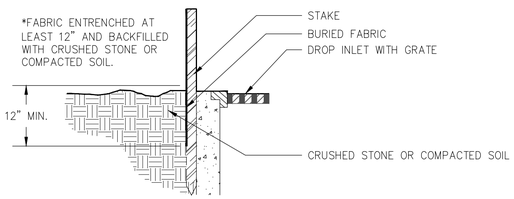
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

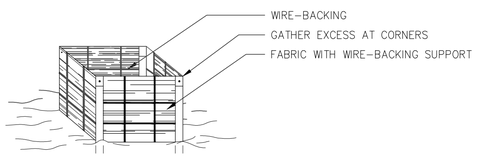
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.





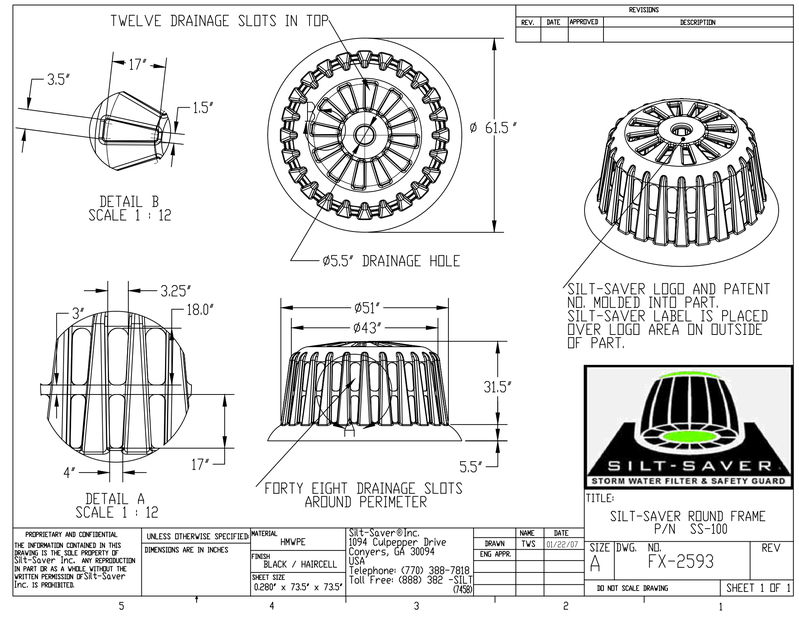
INLET SEDIMENT TRAP (FABRIC & FRAME) — Sd2-F — (NOT TO SCALE) — 13 / 56-0006

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT 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.



REVISIONS			
REV.	DATE	APPROVED	DESCRIPTION

INLET SEDIMENT TRAP (FABRIC & FRAME ALTERNATIVE) — Sd2-F — (NOT TO SCALE) — 14 / 56-0005

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

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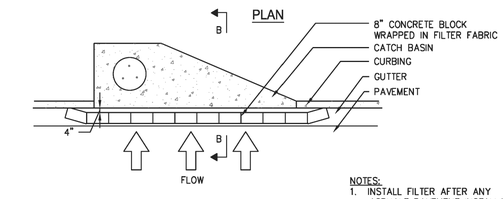
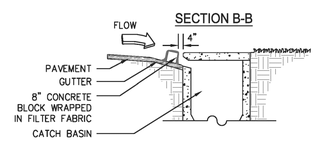
CURB INLET FILTER "PIGS IN BLANKET"





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

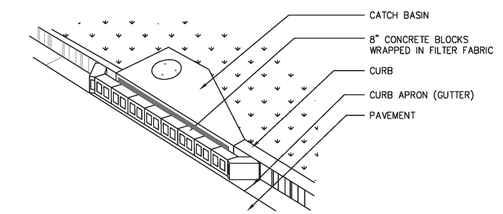


Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

6-154 GSWCC 2016 Edition

INLET SEDIMENT TRAP (PIGS IN BLANKET) — Sd2-P — (NOT TO SCALE) — 15 / 56-0005

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

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CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

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REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KARKANIS

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SPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
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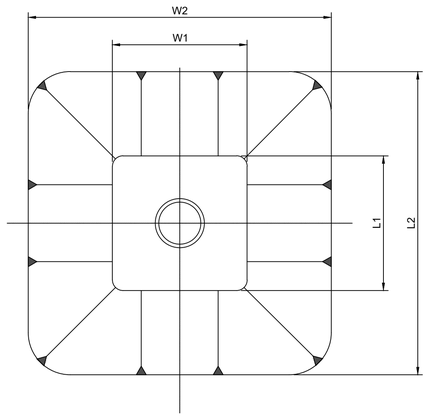
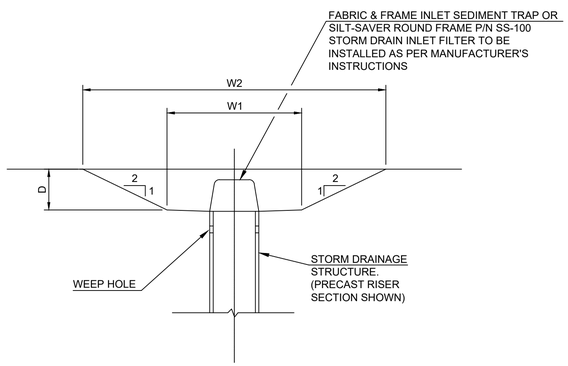
VERIFIED:		DATE:		



PLAN
(NOT TO SCALE)



SECTION
(NOT TO SCALE)

Sd2-E **INLET SEDIMENT TRAP - EXCAVATED** (NOT TO SCALE) 17 / 56-0006

MAINTENANCE STATEMENT (Sd2-F):

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. **SEDIMENT SHALL NOT BE WASHED INTO THE INLET.** SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.

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NOTE (Sd2-E):
THE DIMENSIONS SHOWN FOR LENGTH AND WIDTH ON THE CALCULATION SHEETS CORRESPOND TO "L1" AND "W1" AS SHOWN ON THE EXCAVATED INLET SEDIMENT TRAP DETAIL.

Inlet Sediment Trap B4.2
1. **Drainage area =** 0.438 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.438 ac
Required sediment storage = 29.346 cy = 792.342 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 792.342 cf / 2 ft
Samin = 396.171 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16.5 ft **SAact =** 600.25
w = 16.5 ft Area Acceptable
Volume Required = 792.342
Volume Provided = 808.5 Volume Acceptable

Inlet Sediment Trap B4.1
1. **Drainage area =** 0.283 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.283 ac
Required sediment storage = 18.961 cy = 511.947 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 511.947 cf / 2 ft
Samin = 255.9735 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 12.5 ft **SAact =** 420.25
w = 12.5 ft Area Acceptable
Volume Required = 511.947
Volume Provided = 512.5 Volume Acceptable

Inlet Sediment Trap B5
1. **Drainage area =** 0.059 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.059 ac
Required sediment storage = 3.953 cy = 106.731 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 106.731 cf / 2 ft
Samin = 53.3655 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 5 ft **SAact =** 169
w = 5 ft Area Acceptable
Volume Required = 106.731
Volume Provided = 130 Volume Acceptable

Inlet Sediment Trap B6
1. **Drainage area =** 0.726 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.726 ac
Required sediment storage = 48.642 cy = 1313.334 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 3 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1313.334 cf / 3 ft
Samin = 437.778 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16.5 ft **SAact =** 798
w = 16 ft Area Acceptable
Volume Required = 1313.334
Volume Provided = 1377 Volume Acceptable

Inlet Sediment Trap B7
1. **Drainage area =** 0.247 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.247 ac
Required sediment storage = 16.549 cy = 446.823 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 446.823 cf / 2 ft
Samin = 223.4115 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 12 ft **SAact =** 400
w = 12 ft Area Acceptable
Volume Required = 446.823
Volume Provided = 480 Volume Acceptable

Inlet Sediment Trap B9
1. **Drainage area =** 0.121 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.121 ac
Required sediment storage = 8.107 cy = 218.889 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 218.889 cf / 2 ft
Samin = 109.4445 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 8 ft **SAact =** 232
w = 6.5 ft Area Acceptable
Volume Required = 218.889
Volume Provided = 220 Volume Acceptable

Inlet Sediment Trap B10
1. **Drainage area =** 0.619 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.619 ac
Required sediment storage = 41.473 cy = 1119.771 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2.5 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1119.771 cf / 2.5 ft
Samin = 447.9084 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 17 ft **SAact =** 729
w = 17 ft Area Acceptable
Volume Required = 1119.771
Volume Provided = 1147.5 Volume Acceptable

Inlet Sediment Trap C7
1. **Drainage area =** 0.194 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.194 ac
Required sediment storage = 12.998 cy = 350.946 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 350.946 cf / 2 ft
Samin = 175.473 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 10 ft **SAact =** 324
w = 10 ft Area Acceptable
Volume Required = 350.946
Volume Provided = 360 Volume Acceptable

Inlet Sediment Trap C6
1. **Drainage area =** 0.167 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.167 ac
Required sediment storage = 11.189 cy = 302.103 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 302.103 cf / 2 ft
Samin = 151.0515 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 9 ft **SAact =** 289
w = 9 ft Area Acceptable
Volume Required = 302.103
Volume Provided = 306 Volume Acceptable

Inlet Sediment Trap C5.1
1. **Drainage area =** 1.016 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 1.016 ac
Required sediment storage = 68.072 cy = 1837.944 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2.5 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 1837.944 cf / 2.5 ft
Samin = 735.1776 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 25 ft **SAact =** 1085
w = 21 ft Area Acceptable
Volume Required = 1837.944
Volume Provided = 1887.5 Volume Acceptable

Inlet Sediment Trap C5.A 0.069
1. **Drainage area =** 0.139 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.139 ac
Required sediment storage = 9.313 cy = 251.451 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 251.451 cf / 2 ft
Samin = 125.7255 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 9 ft **SAact =** 289
w = 9 ft Area Acceptable
Volume Required = 251.451
Volume Provided = 306 Volume Acceptable

Inlet Sediment Trap C4.A 0.069
1. **Drainage area =** 0.457 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.457 ac
Required sediment storage = 30.619 cy = 826.713 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 826.713 cf / 2 ft
Samin = 413.3565 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16 ft **SAact =** 624
w = 18 ft Area Acceptable
Volume Required = 826.713
Volume Provided = 848 Volume Acceptable

Inlet Sediment Trap C4.1
1. **Drainage area =** 0.367 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.367 ac
Required sediment storage = 24.589 cy = 663.903 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 663.903 cf / 2 ft
Samin = 331.9515 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 15 ft **SAact =** 529
w = 15 ft Area Acceptable
Volume Required = 663.903
Volume Provided = 690 Volume Acceptable

Inlet Sediment Trap C4.2
1. **Drainage area =** 0.383 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.383 ac
Required sediment storage = 25.661 cy = 692.847 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 692.847 cf / 2 ft
Samin = 346.4235 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 16 ft **SAact =** 552
w = 15 ft Area Acceptable
Volume Required = 692.847
Volume Provided = 728 Volume Acceptable

Inlet Sediment Trap A5.2
1. **Drainage area =** 0.096 ac
2. Required sediment storage = 67 cy/ac * drainage area
Required sediment storage = 67 cy/ac * 0.096 ac
Required sediment storage = 6.432 cy = 173.664 cf
3. Assume excavation **depth** (minimum of 1.5 ft) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) 2 :1
5. Determine required surface area
SAmin = Required sediment storage / excavation depth
SAmin = 173.664 cf / 2 ft
Samin = 86.832 sf
6. Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: square
Dimensions: l = 9 ft **SAact =** 204
w = 4 ft Area Acceptable
Volume Required = 173.664
Volume Provided = 176 Volume Acceptable

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

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Dec 17, 2020
AUTHORIZED

REVISION DATES

SPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

STATE OF GEORGIA No. 21371 PROFESSIONAL ENGINEER 11/20/2020 GEORGE N. KAKUNDES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
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Atlanta, GA 30328
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Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

Slope Stabilization

Ss

DEFINITION

A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

PURPOSE

To provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate that protects young vegetation and promotes its establishment. If using slope stabilization to reinforce channels, please refer to specification, **Ch- Channel Stablization**.

CONDITIONS

Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

PLANNING CONSIDERATIONS

Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

Rolled Erosion Control Products (RECP)

A natural fiber blanket with single or double photodegradable or biodegradable nets.

Hydraulic Erosion Control Products (HECP)

HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil particles. Paper mulch should not be used for erosion control.

CRITERIA

Rolled Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):

- Installation and stapling of RECPs and application rates for the HECPs shall conform to manufacturer's guidelines for application
- Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5ft/sec on slopes 3:1 or greater with a height of 10 feet or greater.

Materials – HECP

Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fiberous components should be all natural or biodegradable.

Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

Materials – RECP

Blankets shall be nontoxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At minimum, the plastic or biodegradable netting shall be stitched to the fibrous matrix to maximize strength and provide for ease of handling.

RECPs are categorized as follows:

a. Short-Term
(functional longevity 12 mo.)

i. Photodegradable

Straw blankets with a top and bottom side photo degradable net. The maximum size of the mesh should be openings of ½" X ½". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

ii. Biodegradable

Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are

twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

b. Extended-Term
(functional longevity 24 mo.)

i.Photodegradable

Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per square yard.

ii.Biodegradable

Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.65 lbs per square yard.

c. Long-Term
(functional longevity 36 mo.)

i. Photodegradable

Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

iii. Biodegradable

Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

NOTES

It is the intention of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

Site Preparation

After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

MAINTENANCE

All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

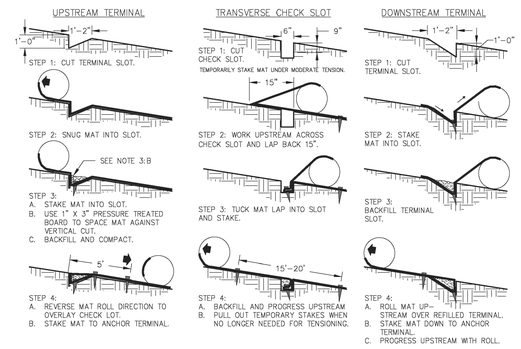

Figure 6-10.1 - Typical Installation Guidelines for Matting and Blankets

Ss **SLOPE STABILIZATION** (NOT TO SCALE) 20 / 56-0007

CASE NUMBER : 2020-00316

GWINNETT COUNTY
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REGISTERED PROFESSIONAL ENGINEER No. 21371 11/20/2020 GEORGE N. KAKIANES

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SUGARLOAF PARKWAY PARK AND RIDE LOT

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VERIFIED:		DATE:		

Construction Road Stabilization

Cr

DEFINITION

A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas, and other on-site vehicle transportation routes.

PURPOSE

To provide a fixed travel route for construction traffic and reduce erosion and subsequent regrading of permanent roadbeds between time of initial grading and final stabilization.

CONDITIONS

This practice is applicable where travelways are needed in a planned land use area or wherever stone-base roads or parking areas are constructed, whether permanent or temporary, for use by construction traffic.

PLANNING CONSIDERATIONS

Areas graded for construction vehicle transport and parking purposes are especially susceptible to erosion. The exposed soil is continuously disturbed, eliminating the possibility of stabilization with vegetation. The prolonged exposure of the roads and parking areas to surface runoff can create severe rilling and muddying of the areas, requiring regrading before paving. The soil removed during this process may enter streams and other waters of the state via stormwater management systems, compromising the water quality. Also, because the roads become so unstable during wet weather, they are virtually unusable, limiting access, and causing delays in construction.

DESIGN CRITERIA

Temporary Roads and Parking Areas

The type of vehicle or equipment, speed, loads, climatic, and other conditions under which vehicles and equipment are expected to operate shall be considered.

Location

Temporary roads shall be located to serve the purpose intended, facilitate the control and disposal of water, control or reduce erosion, and make the best use of topographic features.

Temporary roads shall follow the contour of the natural terrain to minimize disturbance of drainage patterns. If a temporary road must cross a stream, the crossing must be designed, installed and maintained according to specification **Sr - Temporary Stream Crossing**.

Temporary parking areas should be located on naturally flat areas to minimize grading.

Grade and Alignment

The gradient and vertical and horizontal alignment shall be adapted to the intensity of use, mode of travel, and level of development.

Grades for temporary roads should not exceed 10 percent except for very short lengths (200 feet or less), but maximum grades of 20 percent or more may be used if necessary for special uses. Frequent grade changes generally cause fewer erosion problems than long continuous gradients.

Curves and switchbacks must be of sufficient radius for trucks and other large vehicles to negotiate easily. On temporary roads, the radius should be no less than 35 feet for standard vehicles and 50 feet for tractor-trailers.

Grades for temporary parking areas should be sufficient to provide drainage but should not exceed 4 percent.

Width

Temporary roadbeds shall be at least 14 feet wide for one-way traffic and 20 feet wide for two-way traffic. The width for two-way traffic shall be increased approximately 4 feet for trailer traffic. A minimum shoulder width shall be 2 feet on each side. Where turnouts are used, road width shall be increased to a minimum of 20 feet for a

distance of 30 feet.

Side Slopes

All cuts and fills shall have side slopes designed to be stable for the particular site conditions and soil materials involved. All cut and fills shall be 2:1 or flatter to the extent possible. When maintenance by machine mowing is planned, side slopes shall be no steeper than 3:1.

Drainage

The type of drainage structure used will depend on the type of enterprise and runoff conditions. The capacity and design shall be consistent with sound engineering principles and shall be adequate for the class of vehicle, type of road, development, or use. Structures should be designed to withstand flows from a 25-year, 24-hour frequency storm or the storm specified in Title 12-7-1 of the Official Code of Georgia Annotated. Channels shall be designed to be on stable grades or protected with structures or linings for stability.

Water breaks or bars may be used to control surface runoff on low-intensity use roads.

Stabilization

Geotextile should be applied to the roadbed for additional stability. Geotextile selection shall be based on AASHTO M288-06 specification:

1. For subgrades with a CBR greater than or equal to 3 or shear strength greater than 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 7.3, *Separation Requirements*.
2. For subgrades with a CBR between 1 and 3 or sheer strength between 30 and 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 8, *Geotextile Property Requirements*.

A 6-inch course of coarse aggregate shall be applied immediately after grading or the completion of utility installation within the right-of-way. In areas experiencing "heavy duty" traffic situations, stone should be placed at an 8 to 10 inch depth to avoid excessive dissipation or maintenance needs.

All roadside ditches, cuts, fills, and disturbed areas adjacent to parking areas and roads shall be stabilized with appropriate temporary or permanent vegetation according to specification in **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)** and **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**.

PERMANENT ROADS AND PARKING AREAS

Permanent roads and parking areas shall be designed and constructed according to criteria established by the Georgia Department of Transportation or local authority. Permanent roads and parking areas shall be stabilized in accordance with this specification, applying an initial base course of gravel immediately following grading.

CONSTRUCTION SPECIFICATIONS

1. Trees, stumps, roots, brush, weeds, and other objectionable materials shall be removed from the work area.
2. Unsuitable material shall be removed from the roadbed and parking areas.
3. Grading, subgrade preparation, and compaction shall be done as needed. Fill material shall be deposited in layers not to exceed 9 inches and compacted with the controlled movement of compacting and earth moving equipment.
4. The roadbed and parking area shall be graded to the required elevation. Subgrade preparation and placement of the surface course shall be in accordance with sound highway construction practice.
5. Structures such as culverts, pipe drops, or bridges shall be installed to the lines and grades shown on the plans or as staked in the field. Pipe conduits shall be placed on a firm foundation. Selected backfill material shall be placed around the conduit in layers not to exceed 6 inches. Each layer shall be properly compacted.
6. Roads shall be planned and laid out according to good landscape management principles.

MAINTENANCE

Roads and parking areas may require a periodic top dressing of gravel to maintain the gravel depth at 6 inches. Vegetated areas should be checked periodically to ensure a good stand of vegetation is maintained. Remove any silt or other debris causing clogging of roadside ditches or other drainage structure.

Cr **CONSTRUCTION ROAD** (NOT TO SCALE) 08 / 56-0004

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_SPC DETAILS

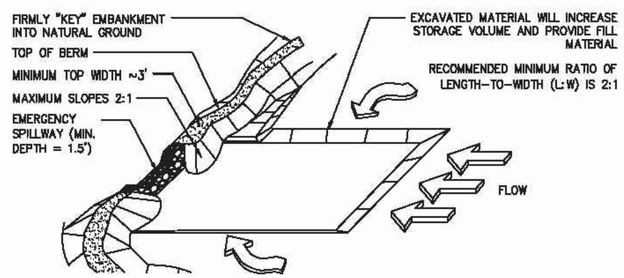
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0008
CORRECTED:		DATE:		
VERIFIED:		DATE:		

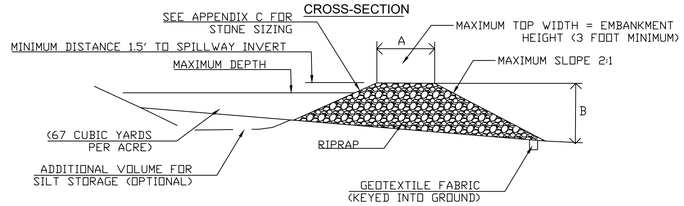
TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

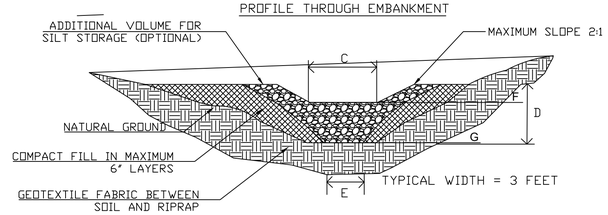
ROCK OUTLET



CROSS-SECTION



PROFILE THROUGH EMBANKMENT



		SD-4-C #1	SD-4-C #2
A	TOP OF BERM	3'	3'
B	HEIGHT FROM BACK	3'	3'
C	ROCK FILTER DAM WIDTH	20'	25'
D	ROCK FILTER DAM HEIGHT	3'	3'
E	BOTTOM WIDTH	3'	3'
F	SPILLWAY ELEV.	993.5	988.5
G	BOTTOM OF STONE ELEV.	992.0	987.0

SD4 **TEMPORARY SEDIMENT TRAP** (NOT TO SCALE) 01 / 54-001

riprap stone sizes and filter bedding stone sizes.

N.S.A. Graded riprap stone sizes are shown in Table C-1.

N.S.A. Filter bedding stone sizes are shown in Table C-1 and C-2.

D.O.T. Graded riprap stone sizes are shown in Table C-3.

D.O.T. Filter bedding stone sizes are shown in Table C-4.

Data for stone center waterways are shown in Table C-5 and Figure C-3.

Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft./sec.)	N.S.A. No.[1]	Size Inches (Sq. Opening) Max.	Avg.[2]	Min.	Filter Stone N.S.A. No.[1]
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

[1] National Stone Association

[2] At least 50% of the individual stone particles must be equal or larger than this listed size

STONE SIZE USED FOR SD-4 1 SPILLWAY AND ALL THE WAY DOWN OUTFALL

STONE SIZE USED FOR SD-4 2 SPILLWAY AND ALL THE WAY DOWN OUTFALL

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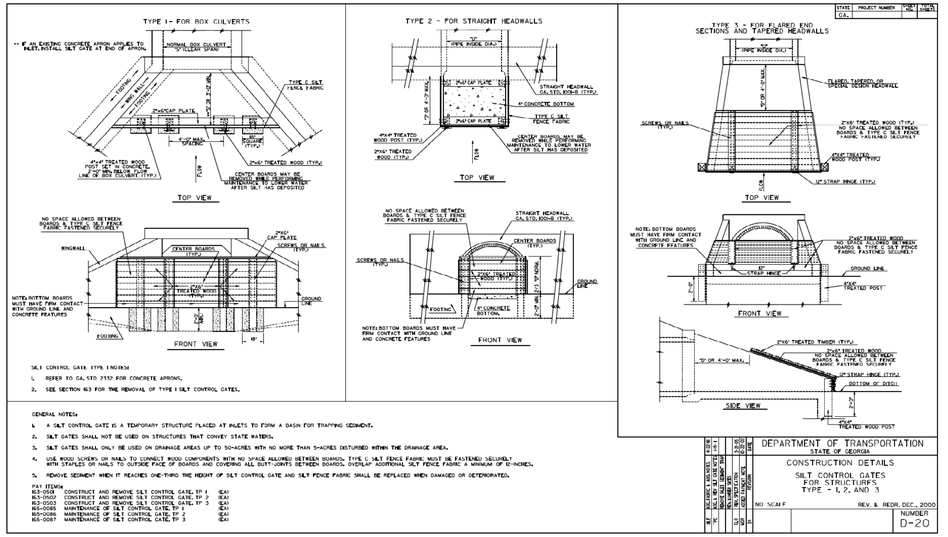

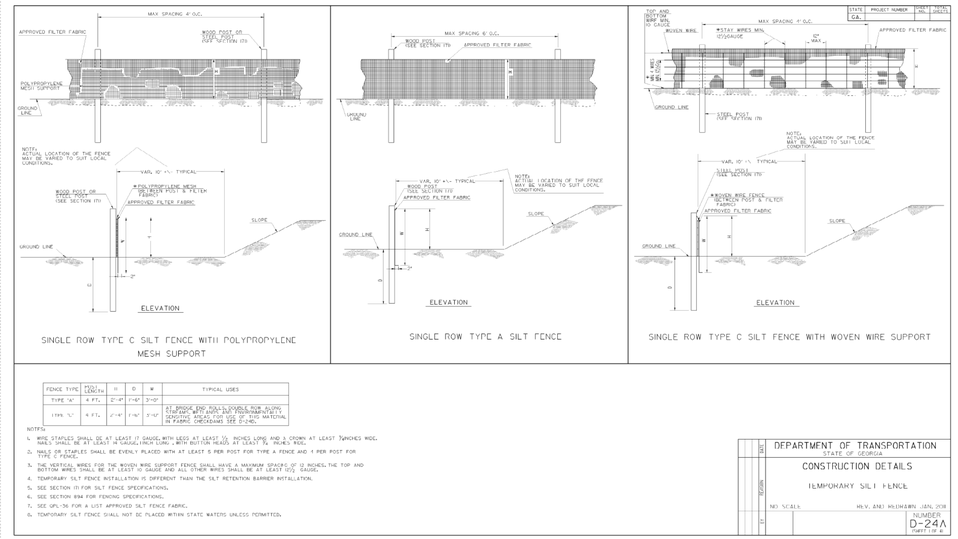

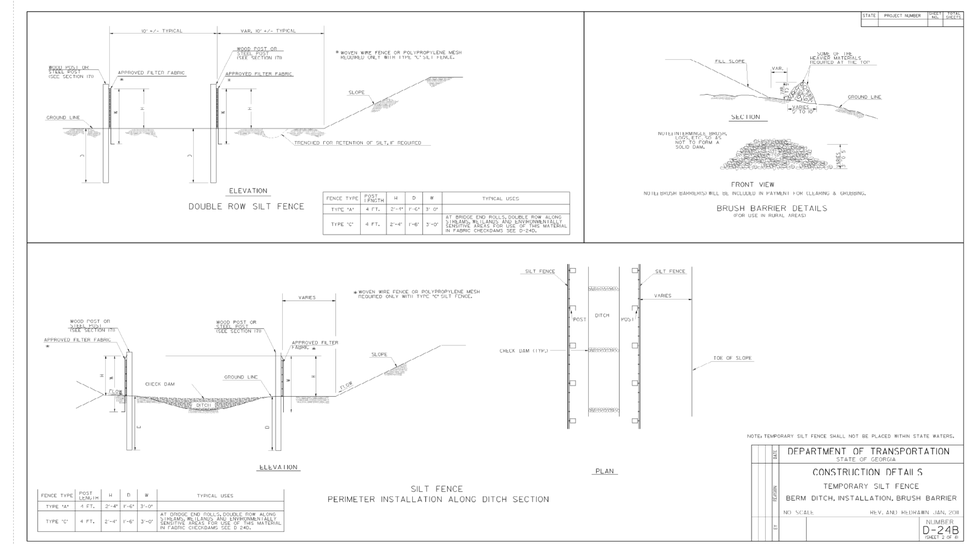

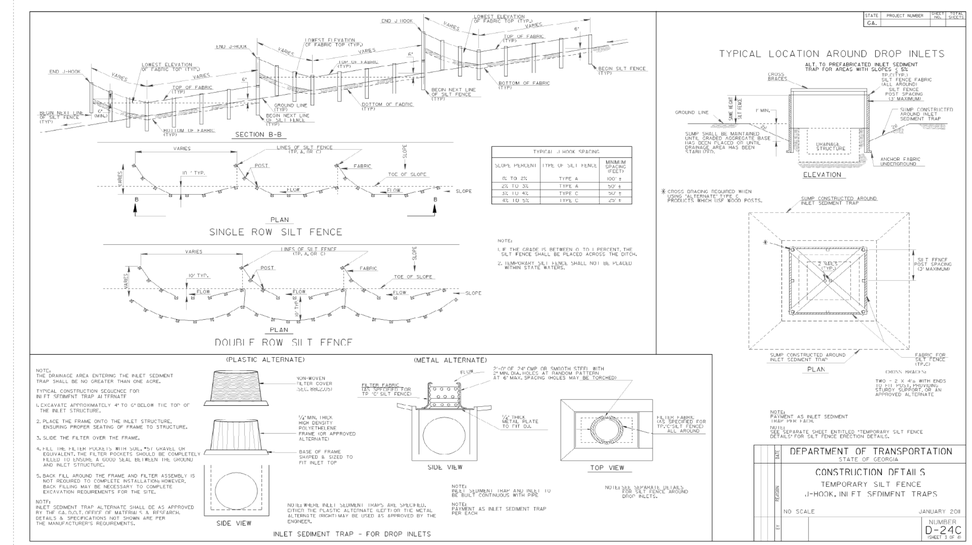

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E ROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

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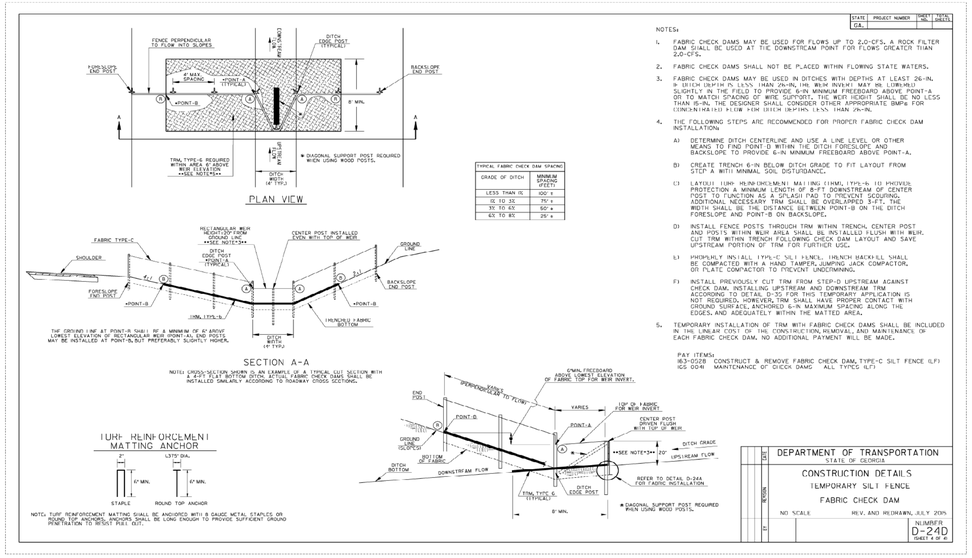
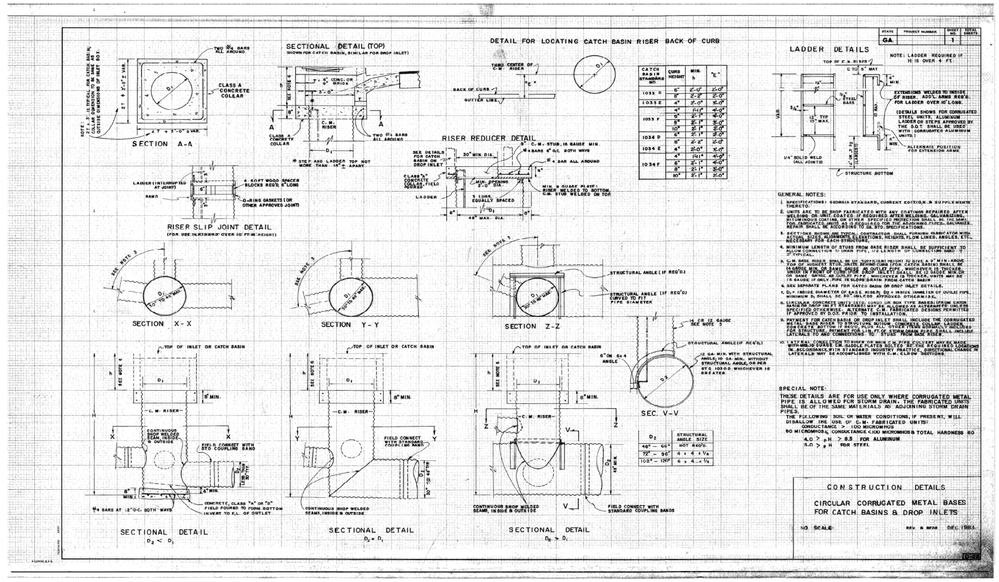


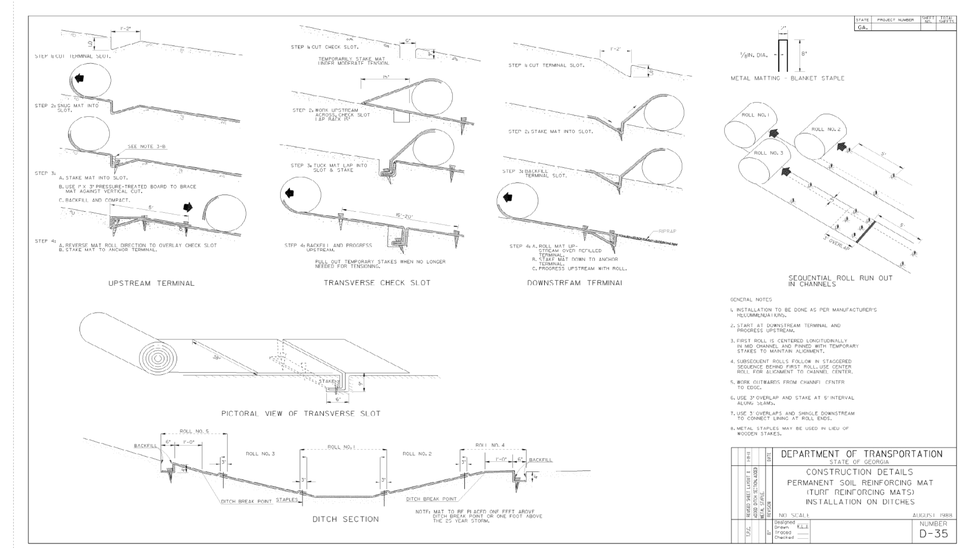
NOTES:

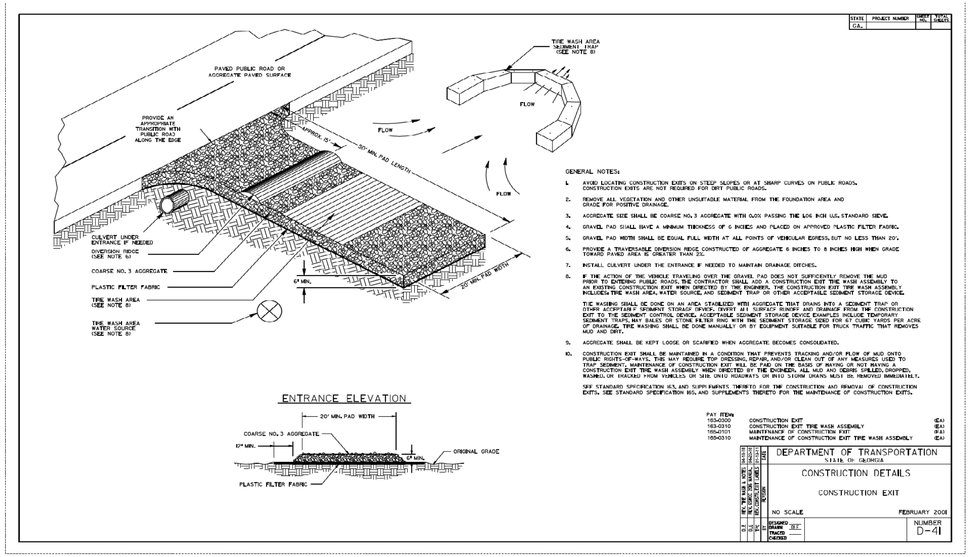
1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. & DITCH DEPTH PLUS HEIGHT OF WEIR EQUAL MAX. 18-IN. (DRAINS SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORTS. THE WEIR HEIGHT SHALL BE NO LESS THAN 16-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR DITCHES WITH DEPTHS LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
   - A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-D WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
   - B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP A WITH MINIMAL SOIL DISTURBANCE.
   - C) LAYOUT TUHF REINFORCEMENT MATTING (TRM) TYPE-G TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A "SPLASH PAD" TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
   - D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
   - E) THOROUGHLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
   - F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST FENCE POSTS. ADDITIONAL TRM FOR DOWNSTREAM TRM ACCORDING TO DETAIL D-25 FOR TWO TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTIONAL REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0529 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
163-0241 MAINTENANCE OF CHECK DAMS ALL TYPES (LF)

TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±







GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR UNPAVED PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.05% PASSING THE 106 INCH (2.5) STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION BERM CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE WASH ASSEMBLY TO AN EXISTING CONSTRUCTION EXIT WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE WASH ASSEMBLY INCLUDES THE WASH AREA, WATER SOURCE, AND SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE. DURING DRY WEATHER THE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
9. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
10. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC ROUTES-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT WILL BE PAID ON THE BASIS OF MAKING OR NOT MAKING A CONSTRUCTION EXIT TIRE WASH ASSEMBLY WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED ON TRACKED FROM VEHICLES ON SITE ONTO ROADWAYS ON OFF SITE DRAINS MUST BE REMOVED IMMEDIATELY.

SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEMS

165-0000	CONSTRUCTION EXIT	(EA)
165-0010	CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0110	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

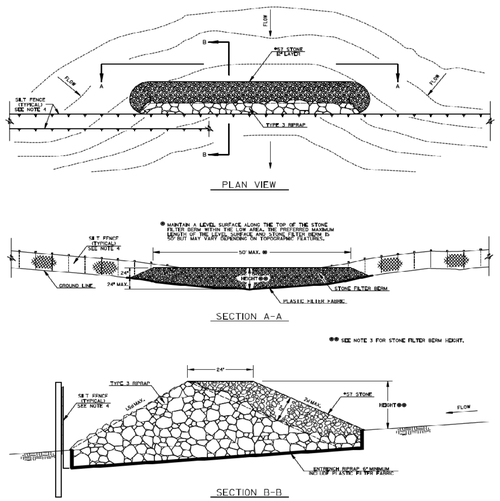
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

E ROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0011
CORRECTED:		DATE:		
VERIFIED:		DATE:		



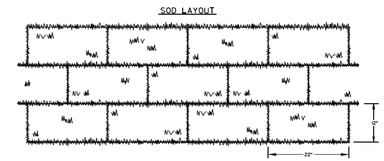
GENERAL NOTES:

1. A STONE FILTER BERM IS AN ADDITIONAL PERIMETER CONTROL BMP WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA.THERE IS NO WELL-DEFINED CHANNEL FOR A ROCK FILTER DAM AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
2. SEDIMENT STORED BY A STONE FILTER BERM IS CONSIDERED PRE-TREATMENT FOR THE PERIMETER SILT FENCE AND SHALL NOT BE CALCULATED AS ADDITIONAL SEDIMENT STORAGE IN THE SEDIMENT STORAGE TABLE PROVIDED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP). CONVENTIONAL OR APPROVED ALTERNATIVE/EQUIVALENT BMPs MUST BE USED TO STORE SEDIMENT UPSTREAM AND/OR DOWNSTREAM OF A STONE FILTER BERM.

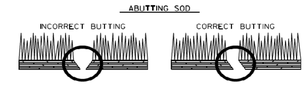
   A ROCK OUTLET TEMPORARY SEDIMENT TRAP SHALL BE EVALUATED PRIOR TO CONSIDERING A STONE FILTER BERM. REFER TO DETAIL D-53 FOR A ROCK OUTLET TEMPORARY SEDIMENT TRAP.
3. THE HEIGHT OF THE STONE FILTER BERM SHALL BE 24 INCHES AT THE ENDS AND NOT MORE THAN 48 INCHES ABOVE THE LOWEST POINT OF THE GROUND LINE.
4. REFER TO THE ESPCP FOR THE LOCATION OF PERIMETER SILT FENCE AND STONE FILTER BERMS. REFER TO DETAIL D-24 FOR THE INSTALLATION OF PERIMETER SILT FENCE. SILT FENCE WILL BE PAID FOR SEPARATELY.
5. SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF STONE FILTER BERMS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF STONE FILTER BERMS.
6. STONE FILTER BERMS SHALL NOT BE PLACED ACROSS FLOWING STREAMS.

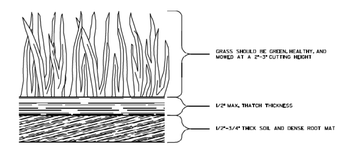
PAY ITEMS:
163-0243 CONSTRUCT & REMOVE STONE FILTER BERM (LF)
165-0112 MAINTENANCE OF STONE FILTER BERM (LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
STONE FILTER BERM
NO SCALE — JANUARY 208 — D-50



NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 3" WIDE BY 52" LONG ROLLS.



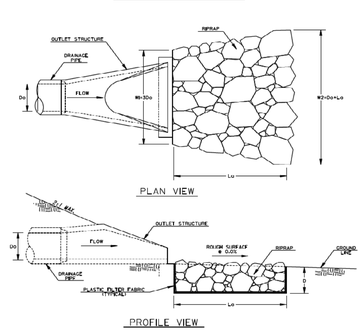


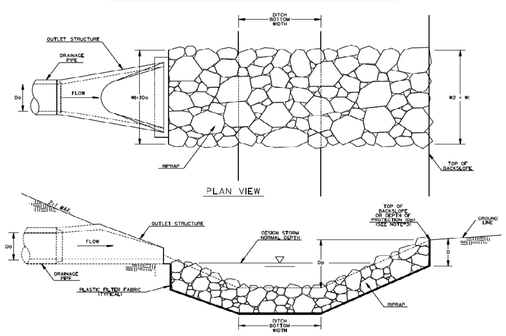
GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO SPRIGS, BLOCKS OR SPRIGS, ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 3H:1V AND OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 1" LONG AND A MINIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO MOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM
700-5300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
SOD INSTALLATION
NO SCALE — 4-22-2016 — NUMBER D-54





GENERAL NOTES:

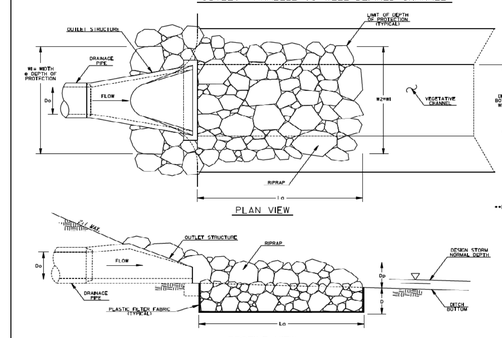
1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1200, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". DESIGN INFORMATION INCLUDES: PIPE DIAMETER (Do); DESIGN STORM FLOW RATE (Q); DESIGN STORM VELOCITY (V); TAILWATER CONDITION (Tw); APRON LENGTH (Lo); APRON WIDTH AT DRAINAGE STRUCTURE (W); APRON WIDTH DOWNSTREAM (W2); AVERAGE STONE DIAMETER (d50); INSTALLATION DEPTH (D); AND TYPE OF RIPRAP WITH QUANTITY.

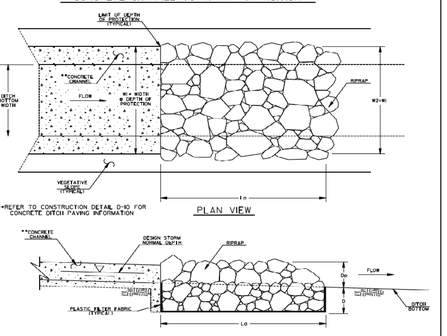
   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Do) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, TYPE-1 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
Lo = APRON LENGTH
W = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Do = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	<1.28	36
3	<0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)
NO SCALE — 4-22-2016 — NUMBER D-55A





GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1200, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". DESIGN INFORMATION INCLUDES: PIPE DIAMETER (Do); DESIGN STORM FLOW RATE (Q); DESIGN STORM VELOCITY (V); TAILWATER CONDITION (Tw); APRON LENGTH (Lo); APRON WIDTH AT DRAINAGE STRUCTURE (W); APRON WIDTH DOWNSTREAM (W2); AVERAGE STONE DIAMETER (d50); INSTALLATION DEPTH (D); AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Do) IF THE RIPRAP WOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP WOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, TYPE-1 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>Lo/20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
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6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
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Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
Lo = APRON LENGTH
W = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Do = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	<1.28	36
3	<0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
CONSTRUCTION DETAILS
RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)
NO SCALE — 4-22-2016 — NUMBER D-55B

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Dec 17, 2020
AUTHORIZED

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

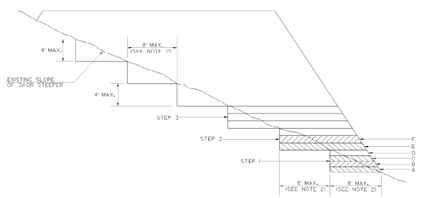
E ROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

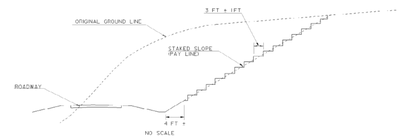
DENCHING DETAIL



NOTES :

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.(SEE DIAGRAM ABOVE)
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP IS TO CUT INTO THE SLOPE A MAXIMUM DISTANCE OF 8 FEET AND A MAXIMUM DEPTH OF 4 FEET. WITH A SMALL D-8 BULLDOZER BLADE, SUCCESSIVE LAYERS D,E, AND F ARE THEN PLACED THROUGH THE STEP PLACING THE SECOND STEP 8 FEET BEYOND THE FIRST STEP AND SUCCESSIVE STEPS AS THE EMBANKMENT IS BUILT. THE MAXIMUM VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL SEG IS MADE. THE STEP ACTUAL SIZE WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWS THE HORIZONTAL DISTANCE TO VARY.
3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE COST OF EXCAVATION AND EMBANKMENT AND BECOMES GRADING COMPLETE IN CONSTRUCTION OF EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

SERRATED SLOPE DETAIL



NOTES :

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED.
2. WIDTH OF STEP SHALL BE 3 FT + 1FT.
3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.
4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.
5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1, 6, AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEO-TECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2, 3, 4, AND 5 UNLESS REQUIRED BY THE SOIL SURVEY.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
SERRATED SLOPE DETAIL
BENCHING DETAIL

NO SCALE — JULY, 1981

NUMBER S-7

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
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Dec 17, 2020
AUTHORIZED

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REVISION DATES

E ROL CONSTRUCTION DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO. 2018-135-01
SUGARLOAF PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0013
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GWINNETT COUNTY

LAND DISTURBANCE PERMIT

REVISION SUBMIT

LAND DISTURBANCE PERMIT

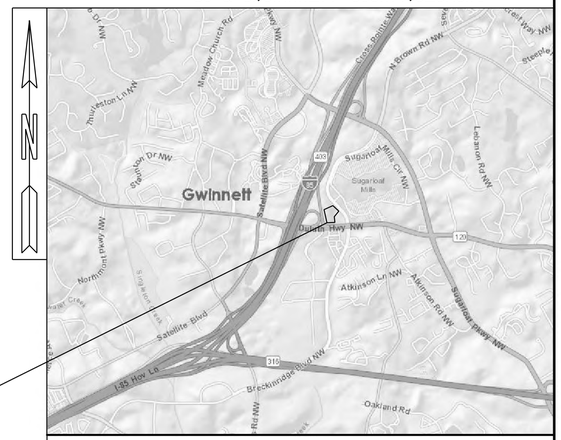
SET 7-16-2021

ATLANTA-REGION TRANSIT LINK AUTHORITY
STATE OF GEORGIA

PROPOSED
SUGARLOAF XPRESS PARK-N-RIDE LOT
SITE PLANS

GWINNETT COUNTY
FEDERAL GRANT # GA-2018-024
ATL PROJECT NUMBER 21-073

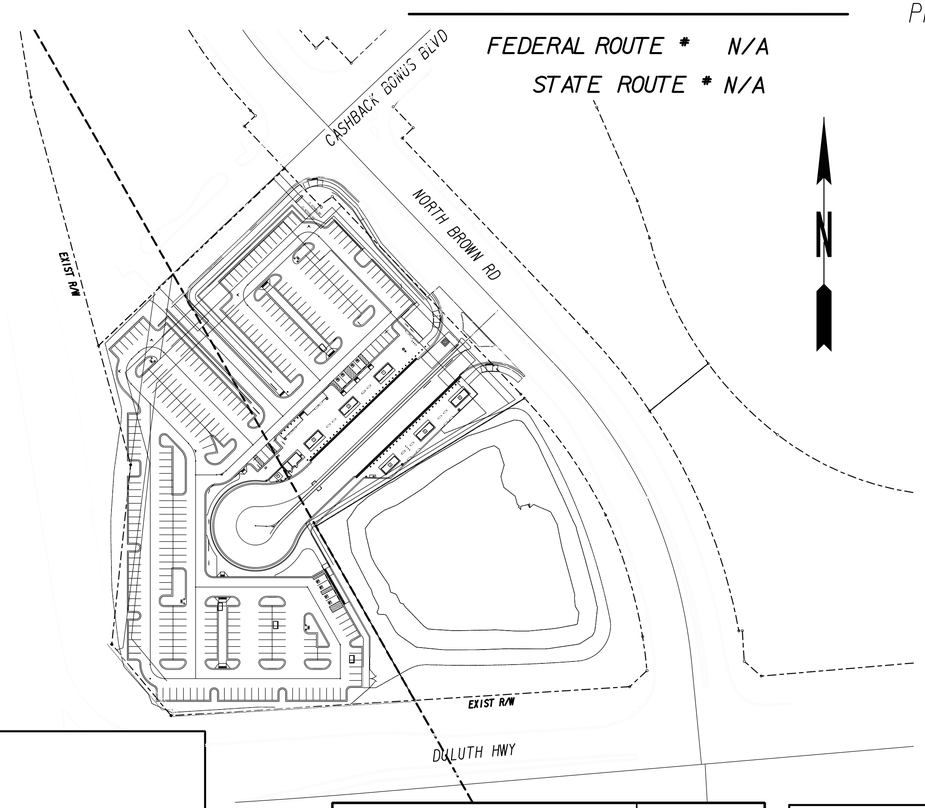
THIS PROJECT IS LOCATED IN LAND LOTS 80 & 81, GWINNETT COUNTY, GEORGIA.



PROJECT LOCATION

LOCATION SKETCH (N.T.S.)

FEDERAL ROUTE # N/A
STATE ROUTE # N/A



KEEP ON JOB SITE
APPROVED PLAN SET MUST BE AVAILABLE FOR GWINNETT COUNTY
NO PLANS
NO INSPECTIONS

GWINNETT COUNTY
APPROVAL STAMP BOX

ALL REQUIREMENTS OF THE GWINNETT COUNTY UNIFIED DEVELOPMENT ORDINANCE (UDO) RELATIVE TO THE PREPARATION AND SUBMISSION OF A DEVELOPMENT PERMIT APPLICATION HAVING BEEN FULFILLED, AND SAID APPLICATION AND ALL SUPPORTING PLANS AND DATA HAVING BEEN REVIEWED AND APPROVED BY ALL AFFECTED COUNTY DEPARTMENTS AS REQUIRED UNDER THEIR RESPECTIVE AND APPLICABLE REGULATIONS, APPROVAL OF THIS SITE PLAN IS HEREBY GRANTED AND ALL OTHER DEVELOPMENT PLANS ASSOCIATED WITH THIS PROJECT SHALL BE SUBJECT TO ALL FURTHER PROVISIONS OF SAID UDO.

Shawn Gee (DESIGN) 7-16-2021

DIRECTOR — DATE
DEPARTMENT OF PLANNING AND DEVELOPMENT

THIS CERTIFICATE EXPIRES TWELVE MONTHS FROM THE DATE OF APPROVAL UNLESS A DEVELOPMENT PERMIT IS ISSUED.

LOCATION & DESIGN APPROVAL DATE: N/A

FUNCTIONAL CLASS: N/A

THIS PROJECT IS 100% IN GWINNETT COUNTY AND IS 100% IN CONG. DIST. NO. 007 .

PROJECT DESIGNATION: EXEMPT
DESIGNED IN ENGLISH UNITS.

24 HOUR CONTACT:
SAM SAMU
(404)-893-6176
ssamu@srta.ga.gov

TOTAL SITE AREA = 5.49 ACRES
DISTURBED AREA = 5.73 ACRES

DESIGN DATA:
SPEED DESIGN:
BUS ACCESS DRIVE: 15 MPH
CUSTOMERS ACCESS DRIVE: 15 MPH

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

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.

LENGTH OF PROJECT	COUNTY No.135 Project No. 21-073
	MILES
NET LENGTH OF ROADWAY	N/A
NET LENGTH OF BRIDGES	N/A
NET LENGTH OF PROJECT	N/A
NET LENGTH OF EXCEPTIONS	N/A
GROSS LENGTH OF PROJECT	N/A

PARKING SPACE TYPE	QTY
REGULAR	302
HANDICAP	8
EV CHARGER	4
KISS & RIDE	4
BUSSES	6
TOTAL	324

SCALE IN FEET
0 100 200 400

RECOMMENDED FOR APPROVAL: Sam Samu
Digitally signed by Sam Samu
DN: cn=Sam Samu, o=State Road and Tollway Authority, ou=Engineering Division, email=ssamu@srta.ga.gov, c=US
Date: 2021.07.19 13:11:55 -04'00'
Sam Samu, P.E. - Transportation Engineer, SRTA/GRTA/ATL

APPROVED FOR SUBMISSION BY: Annie Gillespie
Digitally signed by Annie Gillespie
DN: cn=Annie Gillespie, o=SRTA, ou=Engineering, email=agillespie@srta.ga.gov, c=US
Date: 2021.07.21 10:54:13 -04'00'
Annie Gillespie, P.E. - Chief Engineer, SRTA/GRTA/ATL

REGISTERED No. 21371 PROFESSIONAL ENGINEER GEORGE N. KAKUNES 6/30/2021

PREPARED BY: ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc.
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration date 06/30/2022
DESIGN

PLANS COMPLETED 06-30-2021	
REVISIONS	
6-16-21 ADDRESS COUNTY COMMENTS	

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

DRAWING No.
01-0001

25 YEAR STORM EVENT PIPE CHART

LineID	Upstream Structure Type	Drainage Area (ac)	Total Area (ac)	Runoff Coeff (C)	Rainfall Intensity I, (in/hr)	Incr. CxA	Total CxA	Incr Q (cfs)	Flow Rate (cfs)	Capacity Full (cfs)	Line Size (in)	Pipe Material	n-value	Length (ft)	Slope (%)	Invert Up (ft)	Invert Dn (ft)	HGL Up (ft)	HGL Dn (ft)	Grn/Rim Elev Up (ft)	Velocity (ft/s)	Full Flow Velocity (ft/s)
Stormline A																						
A5.1 -A5	Manhole	0.00	0.29	0.00	0.00	0	0.24	0.00	1.85	51.19	24	RCP	0.013	49.591	5.12	996.10	993.56	996.57 j	995.56	1003.36	3.28	16.29
A5.2 - A5.1	Catch Basin	0.10	0.29	0.85	9.34	0.09	0.24	0.79	1.92	45.27	24	RCP	0.013	62.916	4.01	998.82	996.30	999.30	996.58	1006.05	3.31	14.41
A5.3 - A5.2	Ex Catch Basin	0.10	0.19	0.80	9.34	0.08	0.15	0.78	1.31	31.96	24	RCP	0.013	66.608	2.00	1000.35	999.02	1000.75	999.30	1009.15	2.99	10.17
A5.3A-A5.3	Ex Hooded Drop Inlet	0.09	0.09	0.77	9.34	0.07	0.07	0.65	0.65	0.00	24	CMP	0.024	34.946	-0.09	1000.47	1000.50	1001.17	1000.78	1009.67	0.67	0.00
Stormline B																						
B2 - B1	Manhole	0.00	3.04	0.00	0.00	0	2.46	0.00	20.26	24.50	24	RCP	0.012	25.352	1.00	966.25	966.00	981.37	981.20	981.00	6.45	7.80
B3 - B2	Manhole	0.00	3.04	0.00	0.00	0	2.46	0.00	20.29	24.50	24	RCP	0.012	21.865	1.00	975.00	974.78	981.62	981.47	987.89	6.46	7.80
B4 - B3	Catch Basin	0.23	3.04	0.91	9.34	0.21	2.46	1.96	20.39	24.54	24	RCP	0.012	76.772	1.00	980.07	979.30	982.25	981.72	988.12	6.49	7.81
B5 - B4	Catch Basin	0.06	2.81	0.90	9.34	0.05	2.25	0.49	18.71	24.61	24	RCP	0.012	39.640	1.01	980.67	980.27	983.44	983.21	987.42	5.96	7.83
B6 - B5	Catch Basin	0.81	2.33	0.86	9.34	0.69	1.83	6.51	15.32	24.48	24	RCP	0.012	82.167	1.00	981.69	980.87	984.59	984.27	987.9	4.88	7.79
B7 - B6	Drop Inlet	0.25	1.52	0.83	9.34	0.21	1.14	1.94	9.59	11.38	18	RCP	0.012	117.989	1.00	983.37	982.19	985.95	985.11	990	5.42	6.44
B8 - B7	Manhole	0.00	1.27	0.00	0.00	0	0.93	0.00	7.86	11.38	18	RCP	0.012	28.167	1.00	983.85	983.57	986.33	986.19	990.43	4.45	6.44
B9 - B8	Catch Basin	0.25	0.88	0.82	9.34	0.2	0.61	1.89	5.29	16.08	18	RCP	0.012	52.033	2.00	986.17	985.13	987.06 j	986.63	993.52	4.87	9.10
B10-B9	Catch Basin	0.63	0.63	0.64	8.82	0.4	0.4	3.55	3.55	16.11	18	RCP	0.012	38.913	2.00	987.15	986.37	987.87	987.06	993.30	4.25	9.12
B8.1 - B8	Catch Basin	0.39	0.39	0.82	8.58	0.32	0.32	2.76	2.76	11.29	18	RCP	0.012	45.730	0.98	984.50	984.05	986.66	986.63	990.89	1.56	6.39
B5.1-B5	Catch Basin	0.43	0.43	0.86	9.34	0.37	0.37	3.46	3.46	11.39	18	RCP	0.012	15.946	1.00	982.25	982.09	984.28	984.27	987.30	1.96	6.45
Stormline C																						
C2 - C1	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.15	24.50	24	RCP	0.012	18.161	1.00	969.18	969.00	981.28	981.20	983.00	5.14	7.80
C3 - C2	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.17	42.44	24	RCP	0.012	15.000	3.00	973.95	973.50	981.41	981.34	987.67	5.15	13.51
C4 - C3	Manhole	0.00	2.71	0.00	0.00	0	2.03	0.00	16.24	54.79	24	RCP	0.012	57.465	5.00	983.95	981.07	985.40	981.82	992.00	6.65	17.44
C5 - C4	Manhole	0.00	1.50	0.00	0.00	0	1.01	0.00	8.15	11.38	18	RCP	0.012	131.661	1.00	985.76	984.45	986.87	985.40	993.19	5.84	6.44
C6 - C5	Hooded Drop Inlet	0.17	0.36	0.78	9.34	0.13	0.28	1.22	2.63	11.39	18	RCP	0.012	73.837	1.00	986.70	985.96	987.31 j	986.87	991.48	3.86	6.45
C7 - C6	Hooded Drop Inlet	0.19	0.19	0.80	9.34	0.15	0.15	1.42	1.42	11.36	18	RCP	0.012	7.013	1.00	986.97	986.90	987.42	987.31	991.48	3.22	6.43
C4.1 - C4	Drop Inlet	0.37	0.75	0.89	9.34	0.33	0.62	3.08	5.65	16.10	18	RCP	0.012	64.894	2.00	986.39	985.09	987.31	985.70	991.00	5.00	9.11
C4.2 - C4.1	Drop Inlet	0.38	0.38	0.76	9.34	0.29	0.29	2.72	2.72	16.10	18	RCP	0.012	77.343	2.00	988.14	986.59	988.77 j	987.31	992.65	3.90	9.11
C5.A - C5	Catch Basin	0.13	0.13	0.75	8.58	0.1	0.1	0.82	0.82	11.43	18	RCP	0.012	61.394	1.01	987.17	986.55	987.51	986.87	993.35	2.77	6.47
C5.1 - C5	Catch Basin	1.01	1.01	0.62	8.58	0.63	0.63	5.39	5.39	16.12	18	RCP	0.012	85.705	2.01	988.27	986.55	989.16	987.15	993.50	4.91	9.12
C4.A - C4	Drop Inlet	0.46	0.46	0.87	9.34	0.4	0.4	3.74	3.74	11.40	18	RCP	0.012	90.613	1.00	986.00	985.09	986.74	985.68	990.21	4.32	6.45

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO GEORGIA D.O.T. AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
3. CMP PIPE WHERE REQUIRED SHALL BE MINIMUM 12 GA TYPE -2 ALUMINIZED CMP, WITH HUGGER STYLE BANDS AND A 7" WIDE 3/8" THICK FLAT GASKET.

CASE NUMBER : 2020-00316

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Jul 16, 2021

AUTHORIZED

REGISTERED PROFESSIONAL ENGINEER No. 21371 6/30/2021 GEORGE N. KAKLIAS

ATKINS

Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

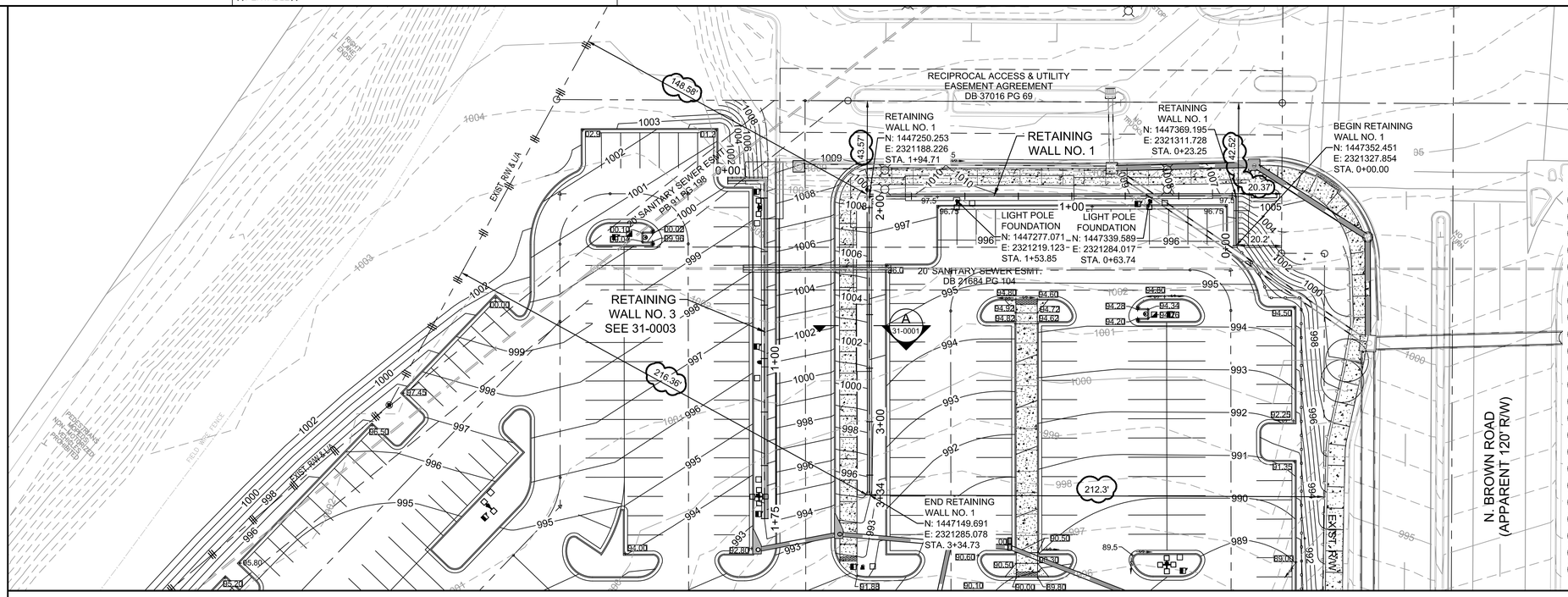
REVISION DATES

05/14/2021		
06/30/2021		

DRAINAGE PIPE CHART

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		22-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

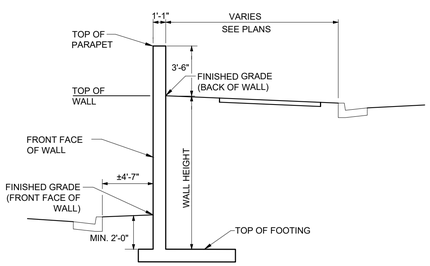


GWINNETT COUNTY PERMITTING NOTES:

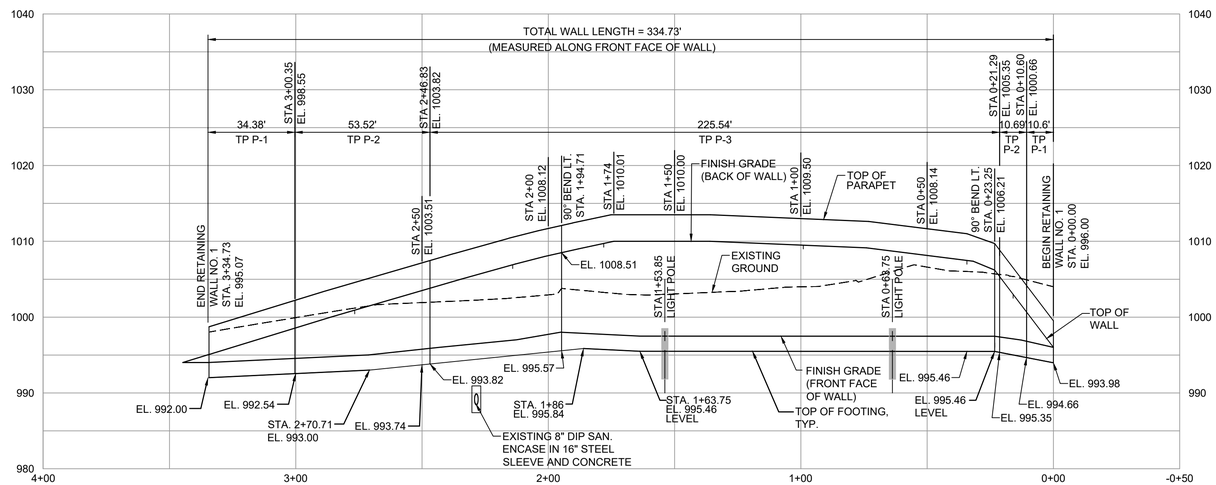
1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR EACH WALL BY GWINNETT COUNTY, THE "CONFIRMATION OF RETAINING CONSTRUCTION CONFORMANCE" FORM, SEALED AND SIGNED BY THE WALL DESIGN ENGINEER-OF-RECORD, SHALL BE COMPLETED AND SUBMITTED TO THE GWINNETT COUNTY DEVELOPMENT INSPECTIONS COORDINATOR.
3. FOR EACH RETAINING WALL EXCEEDING 10 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)

NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949D PARAPET RETAINING WALL TYPES P1, P2, AND P3 (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. SHORING MAY BE REQUIRED CONSISTING OF PILES, LAGGING AND TIE-BACKS, SOIL NAIL WALL SHALL NOT BE USED. THE COST SHALL BE INCLUDED IN THE WALL.
4. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.



SECTION A
NO SCALE
31-0001



RETAINING WALL NO. 1

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES CHRISTOPHER KING No. 030458 6/30/2021

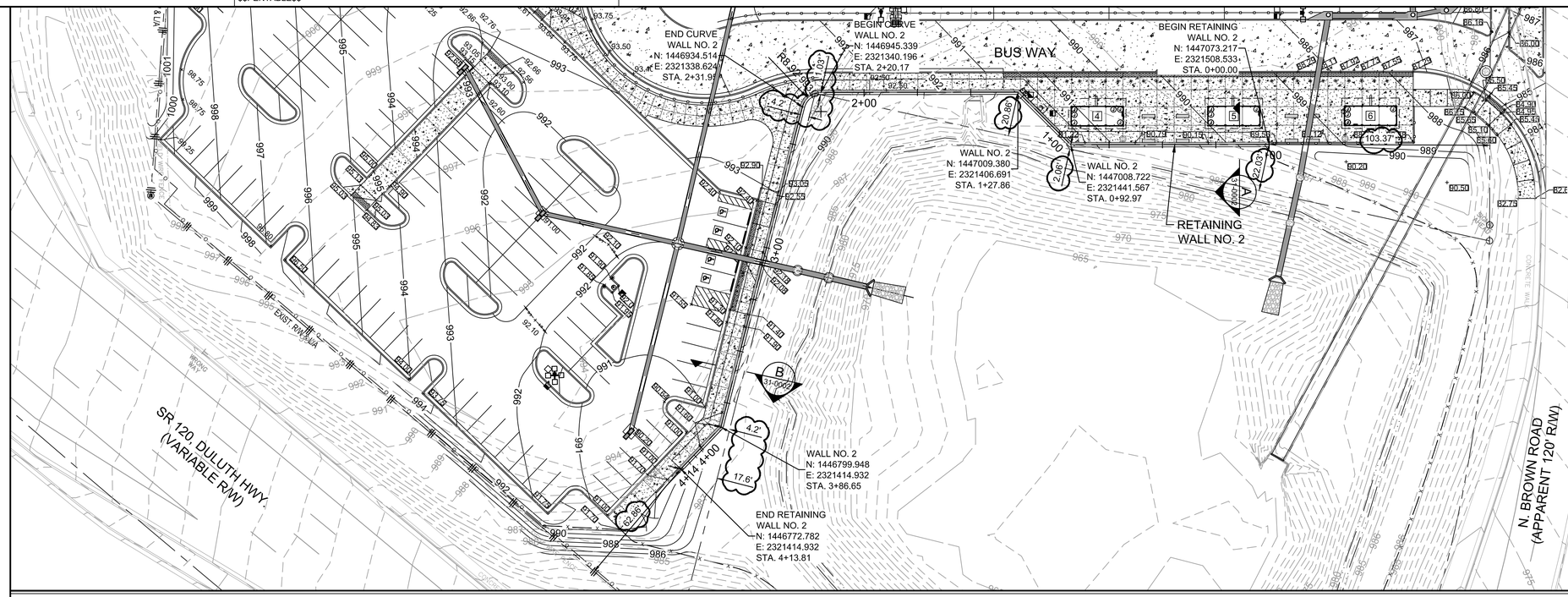
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES		
05/14/2021		
06/29/2021		

RETAINING WALL NO. 1
PLAN AND PROFILE
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		31-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

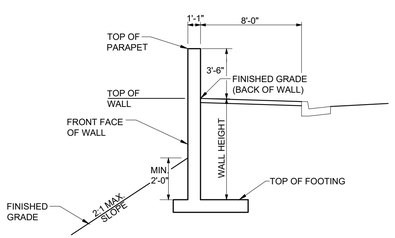


GWINNETT COUNTY PERMITTING NOTES:

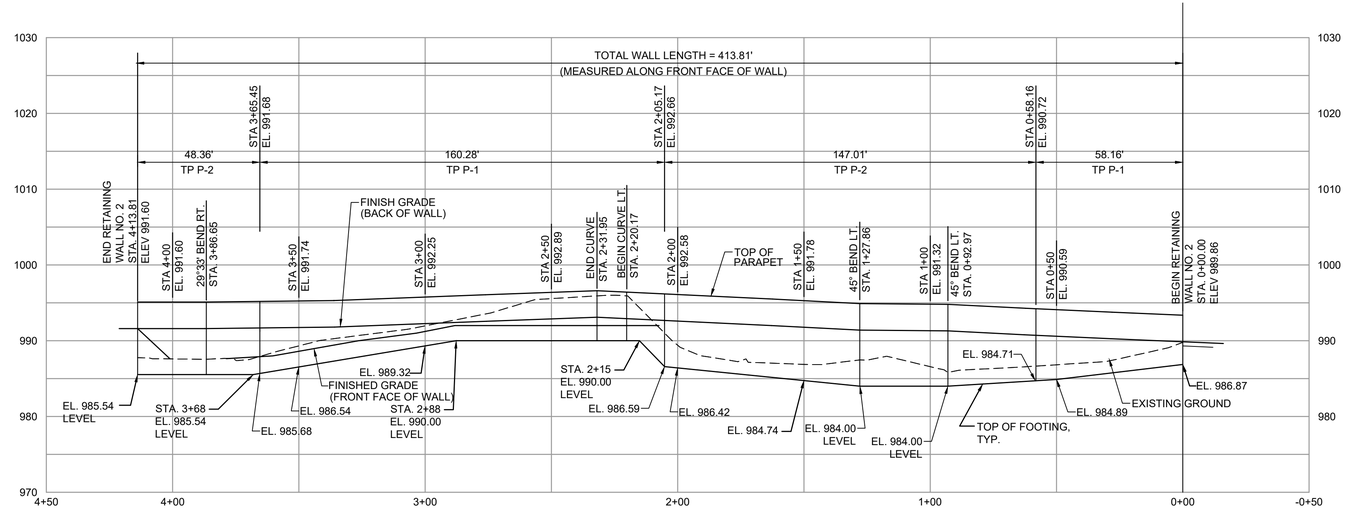
1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL) PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR EACH WALL BY GWINNETT COUNTY, THE "CONFIRMATION OF RETAINING CONSTRUCTION CONFORMANCE" FORM, SEALED AND SIGNED BY THE WALL DESIGN ENGINEER-OF-RECORD, SHALL BE COMPLETED AND SUBMITTED TO THE GWINNETT COUNTY DEVELOPMENT INSPECTIONS COORDINATOR.
3. FOR EACH RETAINING WALL EXCEEDING 10 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL) PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)

NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949D PARAPET RETAINING WALL TYPES P1, P2, AND P3 (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.

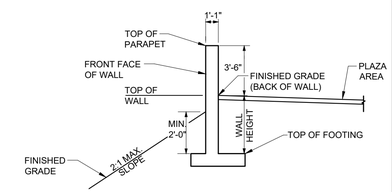


SECTION B
NO SCALE
31-0002



RETAINING WALL NO. 2

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)



SECTION A
NO SCALE
31-0002

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Jul 16, 2021

AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030458 CHARLES CHRISTOPHER KING 6/30/2021

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

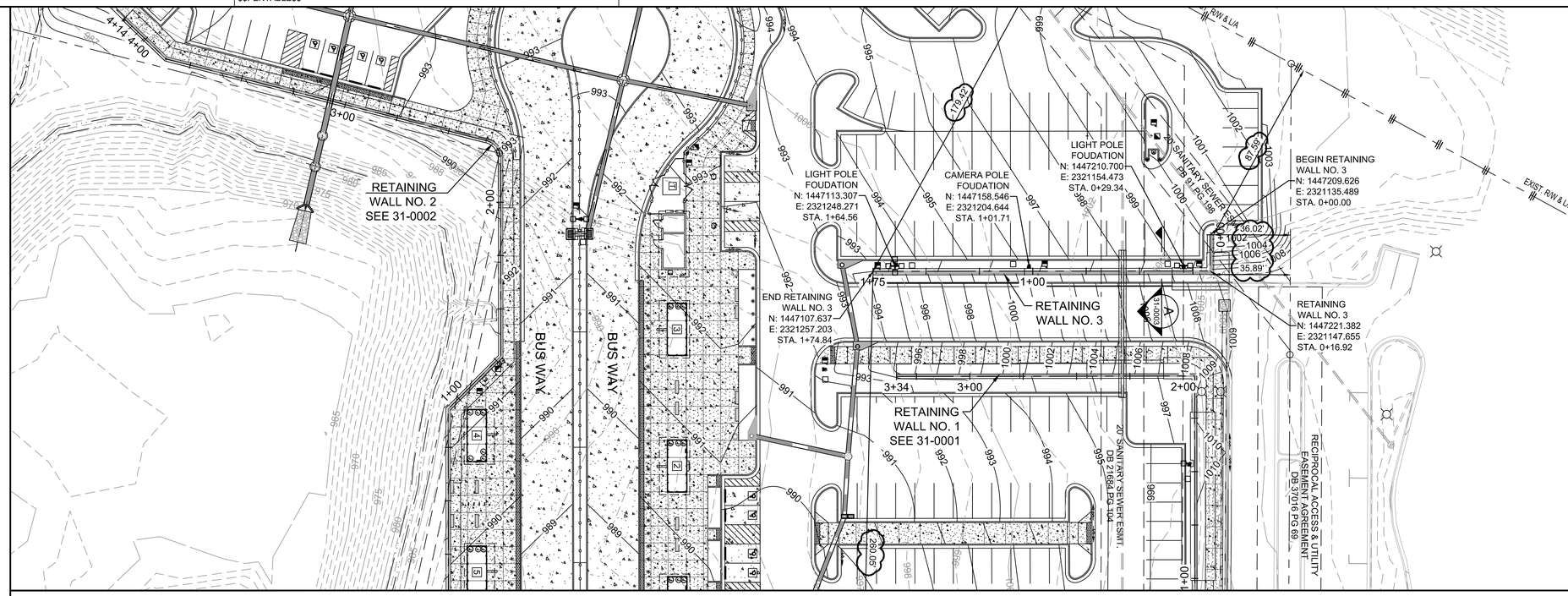
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

REVISION DATES
05/14/2021
06/29/2021

RETAINING WALL NO. 2 PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	31-0002
CORRECTED:		DATE:	
VERIFIED:		DATE:	



GWINNETT COUNTY PERMITTING NOTES:

1. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED PRIOR TO CONSTRUCTION FOR EACH DETENTION POND WALL AND FOR EACH SITE RETAINING WALL WHICH EITHER EXCEEDS FOUR (4) FEET IN HEIGHT, WHICH HAS A BACKFILL SLOPE GREATER THAN ONE (1) FOOT RISE IN THREE (3) FEET HORIZONTAL, OR WHICH SUPPORTS SURCHARGE LOADS FROM VEHICLE OR BUILDINGS. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY GWINNETT COUNTY BUILDING INSPECTIONS SECTION FOR SITE WALLS PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE AND PRIOR TO AUTHORIZATION OF THE FINAL SUBDIVISION PLAT (GCCC SECTIONS 106 & 107.1.1) THE RETAINING WALL BUILDING PERMIT APPLICANT'S ENGINEER OF RECORD SHALL CONFIRM THAT THE GDOT STANDARDS, DESIGNED USING AASHTO GUIDELINES FOR VEHICULAR TRAFFIC SURCHARGE LOADINGS, HAVE BEEN REVIEWED AND ARE IN COMPLIANCE WITH IBC 2018, ASCE/SEI 7-16 AND ACI 318-14 PER GWINNETT COUNTY REQUIREMENTS.
2. FOR EACH RETAINING WALL EXCEEDING 6 FEET IN HEIGHT (MEASURED ALONG TOP OF FOOTING TO TOP OF WALL)
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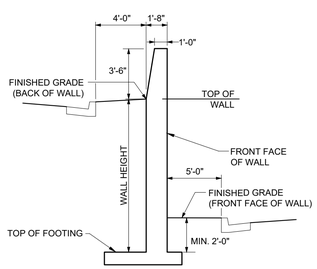
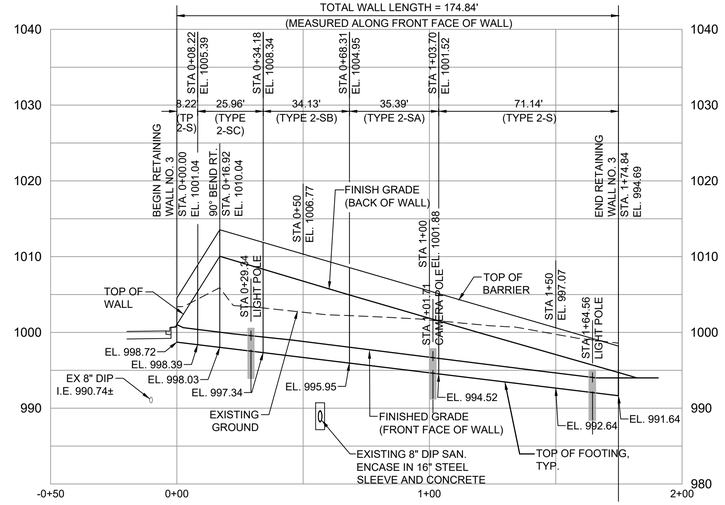
   PRIOR TO CONSTRUCTION, SOIL DESIGN PARAMETERS STATED ON THE COUNTY-APPROVED STRUCTURAL CONSTRUCTION WALL DETAILS (INCLUDING BUT NOT LIMITED TO ALLOWABLE SOIL BEARING PRESSURE, EQUIVALENT LATERAL ACTIVE AND PASSIVE PRESSURES, INTERNAL ANGLE OF FRICTION, COEFFICIENT OF FRICTION, AND SOIL DENSITY) SHALL BE FIELD-VERIFIED BY A GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM
4. GWINNETT COUNTY APPROVED THIRD PARTY GEOTECHNICAL TESTING FIRM SHALL BE: "TO BE DETERMINED BY CONTRACTOR"
5. A SEPARATE SUBMITTAL FOR REVIEW AND PERMITTING IS REQUIRED FOR THE MAINTENANCE BUILDING AND BUS SHELTERS (GCCC 107.1.1)

NOTES:

1. ELEVATIONS SHOWN AT TOP OF WALL/FINISHED GRADE (BACK OF WALL) OR TOP OF FOOTING.
2. SEE GDOT CONSTRUCTION STANDARD 4949B CONCRETE SIDE BARRIER TYPES 2-S, 2-SA, 2-SB AND 2-SC (05-2020) FOR WALL DETAILS, (SEE SHEET 41-0008)
3. PARAPET AND WALL FACES MUST BE DECORATIVELY STAMPED CONCRETE. CONTRACTOR SHALL SUBMIT PATTERN FOR SRTA/ATL APPROVAL PRIOR TO CONSTRUCTION.



SECTION A 31-0003
NO SCALE



RETAINING WALL NO 3

ELEVATION
SCALE: H:1"=30'-0"
V:1"=10'-0"
(LOOKING AT FRONT FACE)

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 030418 CHARLES CHRISTOPHER KING 6/30/2021

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

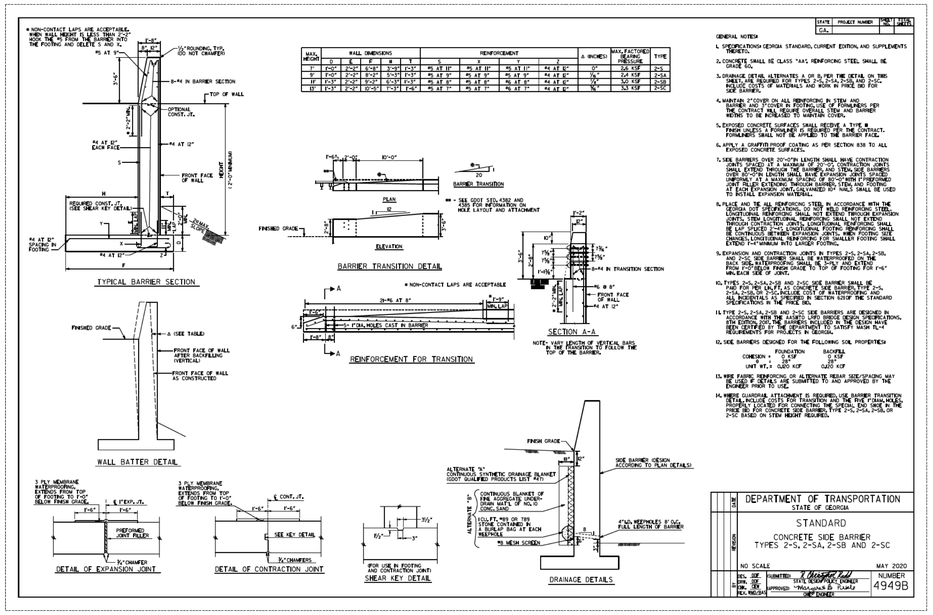
HORIZ. 30 15 0 30 60
VERT. 10 5 0 10 20
SCALE IN FEET

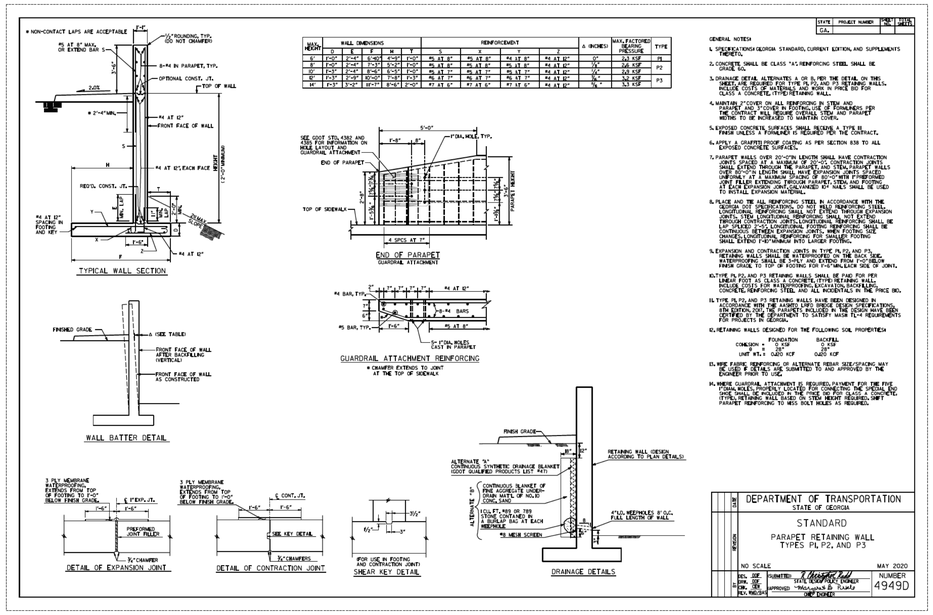
REVISION DATES
05/14/2021
06/29/2021

RETAINING WALL NO. 3 PLAN AND PROFILE

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	31-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	





CASE NUMBER : 2020-00316

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Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES

GEORGIA STANDARDS

SRTA PROJECT NO. 21-073
SUGARLOAF PARK-N-RIDE EXPANSION

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		41-0008
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GENERAL EROSION & SEDIMENTATION CONTROL NOTES:

1. ALL DISTURBED AREAS SHALL HAVE EROSION CONTROL PROVIDED IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

2. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL, GWINNETT COUNTY CODES, AND THE STANDARDS AND SPECIFICATIONS IN THE **MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.**

3. ALL EROSION CONTROL MEASURES SHALL COMPLY WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION COMMISSION MANUAL FOR EROSION AND SEDIMENT CONTROL IN THE STATE OF GEORGIA, CURRENT EDITION, AND GWINNETT COUNTY, STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

4. ALL CONSTRUCTION SHALL CONFORM TO GWINNETT COUNTY, O.S.H.A., AND/OR GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARDS AND SPECIFICATIONS, CURRENT EDITION.

5. THE NOTATION (XXX) AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) AND ON THE EROSION CONTROL DETAIL SHEET FOR THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES, REFERS TO THE GEORGIA UNIFORM CODING SYSTEM AS DETAILED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.

6. GENERAL STATEMENT OF DESIGNED EROSION CONTROL SYSTEM:

   A. NO SURFACE WATER FLOWS FROM ONSITE AREA SHALL BE ALLOWED INTO THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED BY AN EFFECTIVE SEDIMENT ENTRAPMENT DEVICE.

   B. SEDIMENT ENTRAPMENT DEVICES ARE TO BE MAINTAINED AT ALL POINTS WHERE SURFACE FLOWS FROM DISTURBED AREAS CAN LEAVE THE SITE. FLOWS ARE TO BE DIRECTED TO ENTRAPMENT DEVICES THROUGHOUT CONSTRUCTION ACTIVITIES AND THE MAINTENANCE OF SWALES, BERMS, TEMPORARY DIKES, AND OTHER GENERALLY ACCEPTED CONSTRUCTION PRACTICES IS REQUIRED.

7. EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITIES ON-SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT THE END OF EACH WORKING DAY AND AFTER EACH STORM EVENT TO ENSURE THAT ALL MEASURES ARE FUNCTIONING PROPERLY. ANY NECESSARY REPAIRS SHALL BE MADE BY THE CONTRACTOR.

8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. PLEASE CALL (678)-518-6000 WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.

9. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OR CONCURRENT WITH EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**

10. **EROSION AND SEDIMENTATION 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 AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.**

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

12. **EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY, AFTER EACH RAIN EVENT, AND REPAIRED AS NECESSARY.**

13. **ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY GWINNETT CO.**

14. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (I.E. SILT FENCE, SEDIMENT TRAPS, ETC...) AND TREE PROTECTION FENCING ONCE FINAL STABILIZATION IS ACHIEVED.

15. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND FOR REMOVING ANY DEBRIS AND SEDIMENT THAT IS CAUSED BY CONSTRUCTION ACTIVITIES.

16. ALL DISTURBED AREAS SHALL BE GRASSED BY THE SITEWORK CONTRACTOR AS SOON AS CONSTRUCTION PHASES PERMIT.

17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24-HOURS OF SEEDING.

18. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES 4:1 OR STEEPER, MULCH WILL BE ANCHORED.

19. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE "C" TEMPORARY SILT FENCE, OF THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT), STANDARD SPECIFICATIONS, CURRENT EDITION, AND BE WIRE REINFORCED.

20. SEDIMENT DEPTH INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME FOR RETROFITS AND TEMPORARY SEDIMENT BASINS, AND THE 1/2 FULL VOLUME FOR ALL OTHER SEDIMENT STORAGE STRUCTURES (I.E. CHECK DAMS, SILT FENCE, ETC...).

21. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

22. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5 : 1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING AND BLANKET. ALL GRADED SLOPES ON INDIVIDUAL PROJECTS SHALL BE NO STEEPER THEN 2:1 OR THE APPROPRIATE RETAINING STRUCTURE SHALL BE DESIGNED TO REINFORCE OR RETAIN THE RESULTING EMBANKMENT.

GENERAL EROSION & SEDIMENTATION CONTROL NOTES: (CONT'D.)

23. PROPOSED DETENTION PONDS, DETENTION OUTLET CONTROL STRUCTURES, AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED COMPLETELY AND BE FULLY OPERATIONAL PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES.

24. ALL PERMANENT GRADED EARTH SLOPES, EXCAVATION OR EMBANKMENT (CUT AND FILL), SHALL BE GRADED TO A MAXIMUM FINISHED SLOPE OF TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL (MAXIMUM SLOPE 2H:1V).

25. **NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.**

26. **NO WETLANDS HOWEVER WATERS OF THE STATE ARE LOCATED WITHIN 200-FEET OF THE PROJECT.**

27. FLOOD NOTE:

THIS PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOOD HAZARD ZONE PER: F.E.M.A. NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FLOOD INSURANCE RATE MAP (FIRM), FOR THE FOLLOWING AREA:

A. "GWINNETT COUNTY, GEORGIA AND INCORPORATED AREAS"; PANEL 71 OF 155; MAP NUMBER 13135C0071F; MAP EFFECTIVE DATE: SEPTEMBER 29, 2006..

THIS PROPERTY LIES WITHIN THE FOLLOWING AREAS:

"ZONE X" (OTHER AREAS): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

28. MULCH TEMPORARY VEGETATION ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. THIS NOTE APPLIES AFTER INITIAL GRADING OF THE DEVELOPMENT OR LOT.

29. ALL DISTURBED AREAS LEFT IDLE FOR 5 DAYS, AND NOT TO FINAL GRADE, WILL NEED TO ESTABLISH TEMPORARY VEGETATION BY USING Ds1 / Ds2. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION BY USING Ds3 OR Ds4 IMMEDIATELY UPON COMPLETION.

30. GWINNETT COUNTY LAND DISTURBANCE PERMIT / BUILDING PERMITS MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A COUNTY ROAD OR STREET.

31. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

32. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE OILS & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". GWINNETT COUNTY ALSO REQUIRES THAT POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDRO SEEDING.

33. THE PROPOSED EROSION AND RUNOFF CONTROL MEASURES ARE IN COMPLIANCE WITH THE GWINNETT COUNTY SEDIMENT CONTROL AND FLOOD PROTECTION REGULATIONS AND WILL NOT INCREASE THE RUNOFF RATE FROM THE SITE FOR RAINSTORMS WITH A RETURN PERIOD OF 2,5,10,25,50 AND/OR 100 YEARS

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

INITIAL (CLEARING & GRUBBING) NOTES:

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

2. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

3. ALL STAGING AREAS, MATERIAL STORAGE AREAS, CONCRETE WASH-OUT AREAS, AND/OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED AT SETBACK DISTANCES FROM DESIGNATED TREE PROTECTION AREAS AND/OR STREAM BUFFERS AS REQUIRED BY LOCAL AND STATE REGULATIONS.

4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. POST ON DAY ONE.

5. PRIOR TO COMMENCING LAND DISTURBING 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 ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED PHASE I LIMITS INDICATED ON THE APPROVED PLANS.

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

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

8. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. TRAPPED SEDIMENTS SHOULD BE REMOVED WHEN ACCUMULATION REACHES HALF THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

9. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.

INITIAL (CLEARING & GRUBBING) NOTES: (CONT'D)

10. LOCATE STATE WATERS/WETLANDS.

11. ESTABLISH FULL IMPLEMENTATION OF SEDIMENT TRAPS

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

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

15. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

16. CLEARING BEYOND THE LIMITS SHOWN IN THE INITIAL EROSION CONTROL PLAN; FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA / ATL'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID LOSS OF SEDIMENT INTO THE BUFFER AREAS.

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

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

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

6. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES HALF OF THE HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS.

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

8. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10-FEET OR GREATER, AND CUTS AND FILLS WITH STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.

9. TYPE "C" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL SOIL STOCK PILE AREAS.

10. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.

11. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALL LOCATIONS AS SOON AS THE HEADWALL IS CONSTRUCTED.

12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS NECESSARY.

13. AFTER PRELIMINARY CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT ALL RETROFITS, EXCAVATED SEDIMENT TRAPS AND DIVERSION DIKES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE RETROFITS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE EXISTING DETENTION PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATIONS AS SHOWN ON THE PLANS.

14. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INTERMEDIATE (GRADING & TEMPORARY VEGETATION) NOTES:

15. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5"-3.5" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM A VEHICLE OR FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

16. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER! BY EITHER THE DESIGN PROFESSIONAL, SRTA / ATL'S ON SITE ENGINEERING FIRM, OR THE REVIEWING AGENCY.

FINAL (STORMWATER MANAGEMENT & PERMANENT VEGETATION) NOTES:

1. FULL COORDINATION SHALL BE MAINTAINED BETWEEN THE CONTRACTOR, DESIGN PROFESSIONAL, AND THE REGULATORY INSPECTOR REGARDING PROJECT SEQUENCE.

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

3. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.

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

5. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

6. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF OF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name: SUGARLOAF PARK AND RIDE Address: N. BROWN ROAD NW @ I-85
City/County: LAWRENCEVILLE / GWINNETT Date on Plans:_____
Name & email of person filling out checklist: Ryne McCoy ryne.mccoy@atkinsglobal.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
51-0002	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
51-0002	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
51-0002	Y	5 Provide the name, address, email address, and phone number of primary permittee.
51-0002	Y	6 Note total and disturbed acreages of the project or phase under construction.
51-0002	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
51-0002	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0002	Y	9 Description of the nature of construction activity and existing site conditions.
51-0002	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-0002	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
51-0002	Y	12 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 19** of the permit.
51-0002	Y	13 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 19** of the permit. *
51-0002	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
51-0002	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0002	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
51-0002	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
51-0002	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Jul 16, 2021
AUTHORIZED

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

GEORGIA REGISTERED No. 21371 PROFESSIONAL 8/30/2021 ENGINEER GEORGE N. KAKUNES

ATKINS
Member of the SNC-Lavalin Group

Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280

Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
05/14/2021
06/30/2021

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

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

DRAWING No. 51-0001

51-0002	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0002	Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
51-0002	Y	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. *
51-0002	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
51-0003	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
51-0003	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
51-0003	Y	27 Description of practices to provide cover for building materials and building products on site. *
51-0003	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
51-0003	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0003	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
51-0003	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
51-0004	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
51-0004	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
51-0004	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
51-0004	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
51-0004	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
51-0004	Y	37 Graphic scale and North arrow.
51-0004	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

51-0004	Y	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
51-0004	Y	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. *
51-0004	Y	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.
51-0004	Y	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
51-0004	Y	43 Delineation and acreage of contributing drainage basins on the project site.
51-0004	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
51-0004	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0004	Y	46 Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0004	Y	47 Soil series for the project site and their delineation.
51-0004	Y	48 The limits of disturbance for each phase of construction.
51-0005	Y	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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment 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.
51-0005	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
51-0005	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0005	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the 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, 2021

GSWCC AND NPDES NOTES:

1. 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:

2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL:

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

3. THE LIMIT OF DISTURBANCE FOR THIS PROJECT IS LESS THAN 50 ACRES AT ANY ONE TIME FOR THE DURATION OF THE PROJECT; THEREFORE, NO WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE, NOR THE INCLUSION OF AT LEAST 4 OF THE BMPs LISTED IN APPENDIX 1 OF THIS CHECKLIST, IS REQUIRED.

4. 24-HOUR LOCAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL CONTACT:

NAME: T.B.D.
LOCAL ADDRESS:

CONTACT PHONE NO.:

5. PRIMARY PERMITTEE:

OPERATOR: TO BE DETERMINED

OPERATOR CONTACT: _____
OPERATOR CONTACT PHONE NO.: _____

OWNER: NAME: SAM SAMU (FOR ATL / SRTA / GRTA)
ADDRESS: 245 PEACHTREE CENTER AVENUE, SUITE 2200
ATLANTA, GA 30303

OWNER CONTACT: SSAMU@SRTA.GA.GOV
OWNER CONTACT PHONE NO.: 404-893-6176

6. TOTAL PROPERTY SITE AREA: 5.49 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 1): 2.06 ACRES.
TOTAL PROJECT DISTURBED AREA (PHASE 2 & 3): 6.14 ACRES.

7. THE GPS LOCATION FOR THE CONSTRUCTION EXIT IS: N33.978611 W84.085833

8. FOR THE INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS, REFER TO THE TITLE BLOCK ON ALL SHEETS.

9. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS:

PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT CONSIST OF THE GRADING OF THE SITE AND THE INSTALLATION OF SITE, ROADWAY, AND UTILITY INFRASTRUCTURE REQUIRED TO SUPPORT A NEW PARK AND RIDE LOT AND BUS LOADING AREA. THE EXISTING SITE CONSIST OF A PREVIOUSLY GRADED UNDEVELOPED OUT PARCEL FOR SUGARLOAF MILLS, LOT LOCATED NEXT TO AN EXISTING DETENTION POND.

10. VICINITY MAP:

N.T.S.
GWINNETT COUNTY, GEORGIA

GSWCC AND NPDES NOTES:(CONT'D.)

11. PROJECT RECEIVING WATERS:

THE PROJECT RECEIVING WATERS FOR THIS SITE IS AN EXISTING DETENTION POND WHICH IS LOCATED TO THE SOUTHEAST OF THE PROJECT SITE.

STORM WATER RUNOFF IS CONVEYED NORTH TO SOUTH AND WEST TO EAST ACROSS THE SITE VIA PIPE STORM DRAINAGE SYSTEM. ALL ONSITE SHEET FLOW AS WELL AS THE DETENTION POND OUTFALL DISCHARGES INTO THE UNNAMED TRIBUTARY TO LEE DANIEL CREEK .

STORM WATER RUNOFF IS CONVEYED THROUGH THE UNNAMED TRIBUTARIES , WHICH THEN CONVERGES WITH LEE DANIEL CREEK , APPROXIMATELY ONE MILE SOUTH OF THE PROJECT SITE.

NEITHER THE UNNAMED TRIBUTARY, LEE DANIEL CREEK SHALL BE ADVERSELY IMPACTED BY THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT.

12. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PAGE 19 OF THE PERMIT:

"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."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

13. 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 PAGE 19 OF THE PERMIT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AN SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL (NAME AND SIGNATURE)

0000016834 11/09/2021
GSWCC LEVEL II CERTIFICATION NO. GSWCC LEVEL II CERTIFICATION EXP. DATE

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION:

THE DESIGN PROFESSIONAL, OR AN AUTHORIZED AGENT DESIGNATED BY THE DESIGN PROFESSIONAL, WILL PERFORM AN INSPECTION OF THE EROSION AND SEDIMENTATION CONTROL BMPs THAT HAVE BEEN INSTALLED AND WILL SUBMIT A SIGNED COPY OF A REPORT OF THEIR FINDINGS TO THE PRIMARY OPERATOR WITHIN 7-DAYS OF THE DATE OF THE INSPECTION, WHICH SHALL BE KEPT ON FILE WITH THE NOTICE OF INTENT (NOI) AND ALL OTHER REQUIRED PAPER WORK.

DATE OF INSPECTION: _____
"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLANS ON THE DATE OF INSPECTION."

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

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INSPECTION REVEALED THE FOLLOWING DEFICIENCIES FROM THE ES&PC PLAN:

THE DEFICIENT ITEMS IDENTIFIED IN THE REPORT MUST BE ADDRESSED AND CORRECTED BY THE CONTRACTOR WITHIN 2 BUSINESS DAYS UPON RECEIPT OF THE INSPECTION REPORT AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

GSWCC AND NPDES NOTES:(CONT'D.)

15. 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.

REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV):

(i.) 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS;
(ii.) 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; AND,
(iii.) 100-FOOT UNDISTURBED BUFFERS FOR PROJECTS IN THE VICINITY OF THE CHATTAHOOCHEE RIVER.

16. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW, OR WAVE ACTION, EXCEPT WHERE A SBV IS APPROVED BY GA EPD. THIS PROJECT PROPOSES NO ENCROACHMENT WITHIN THE STATE BUFFER.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES SHALL BE USED. THIS REQUIREMENT MUST BE IMPLEMENTED REGARDLESS OF WORK THAT IS APPROVED UNDER AN SBV, OR FOR A PROJECT THAT IS EXEMPT FROM AN SBV.

17. ANY AMENDMENTS/REVISIONS TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS (ES&PC PLANS), WHICH HAVE A SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT, MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

18. WASTE MATERIALS (I.E. SOLID MATERIALS, INCLUDING BUILDING MATERIALS) SHALL NOT BE DISPOSED OF OR DISCHARGED INTO STORM WATER INLETS OR TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DISPOSED OF IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRE BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

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

22. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT DO NOT DISCHARGE STORM WATER INTO A BIOTA IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT. THEREFORE, COMPLIANCE WITH PART III.C OF THE PERMIT, INCLUDING 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, IS NOT APPLICABLE TO THIS PROJECT.

23. A TMDL IMPLEMENTATION PLAN FOR SEDIMENT IMPAIRMENT IS NOT APPLICABLE AS THERE IS NO IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE). THEREFORE, NO TMDL IMPLEMENTATION PLAN OR SITE-SPECIFIC REQUIREMENTS ARE APPLICABLE TO THIS PROJECT.

24. BMPs FOR CONCRETE WASHDOWN OF THE FOLLOWING:

TOOLS:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE WASHDOWN OF TOOLS USED FOR CONCRETE WORK SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

CONCRETE MIXER CHUTES:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE MIXER CHUTES SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

HOPPERS:
ALL CONCRETE WASH WATER THAT RESULTS FROM THE RINSING OUT OF CONCRETE HOPPERS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

REAR OF VEHICLES:
ALL CONCRETE AND WASH WATER THAT RESULTS FROM THE RINSING OFF OF THE REAR OF CONCRETE TRUCKS SHALL BE CONTAINED IN A DESIGNATED CONCRETE WASHOUT AREA.

CONCRETE TRUCK PROHIBITIONS AND CONCRETE WASHOUT AREAS (CWA):
WASHOUT OR DISCHARGE OF ANY SURPLUS CONCRETE OR DRUM WASH WATER FROM CONCRETE TRUCKS AT THE CONSTRUCTION SITE IS PROHIBITED. DO NOT DISCHARGE ANY CONCRETE WASTEWATER (WASH OUT) INTO SANITARY OR STORM WATER SEWER SYSTEM OR DRAINS.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

ATKINS
Member of the SNC-Lavalin Group
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1600 RiverEdge Parkway NW, Ste. 700
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ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

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

DRAWING No.
51-0002

GSWCC AND NPDES NOTES:(CONT'D.)

32. COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
d. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

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

33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.b.):
ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLING POINTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.c.):
FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM SAMPLE LOCATION.

THERE ARE NO RECEIVING WATER SAMPLING POINTS ON THIS PORJECT

34. "APPENDIX B" RATIONALE FOR OUTFALL SAMPLING POINTS:

SAMPLING REQUIREMENTS (NPDES GENERAL PERMIT NO. GAR100001, SEC. IV.D.6.a.(3).):

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

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION(S). A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES (BMP's) HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM "APPENDIX B" IN THE NPDES GENERAL PERMIT NO. GAR100001.

THE SELECTED NTU VALUE OF 75 IS BASED UPON THE CONSTRUCTION SITE ACREAGE OF 6 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF APPROXIMATELY 0.01 SQUARE MILES, AND THE PROJECT RECEIVING WATER, UNNAMED TRIBUTARY TO LEE DANIEL CREEK, WHICH SUPPORTS WARM WATER FISHERIES.

SAMPLE POINT #001:
IN THE INITIAL PHASE, SAMPLE POINT 001 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #1 (Sd4) OUTLET. SAMPLE POINT 001 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE C3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #002:
IN THE INITIAL PHASE, SAMPLE POINT 002 IS THE OUTFALL SAMPLE POINT LOCATED AT THE DOWNSTREAM SIDE OF THE SEDIMENT TRAP #2 (Sd4) OUTLET. SAMPLE POINT 002 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO MANHOLE B3, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

SAMPLE POINT #003:
IN THE INITIAL PHASE, SAMPLE POINT 003 IS THE OUTFALL SAMPLE POINT LOCATED AT THE EXISTING CATCH BASIN A5.3. SAMPLE POINT 003 WILL BE RELOCATED IN THE INTERMEDIATE PHASE TO PROPOSED MANHOLE A5.1, ONCE THE PROPOSED STORM SYSTEM IS CONSTRUCTED

State of Georgia
Department of Natural Resources
Environmental Protection Division

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Permit No. GAR100002

APPENDIX B

Nephelometric Turbidity Unit (NTU) TABLES

Trout Streams

Surface Water Drainage Area, square miles

Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	[illegible]	[illegible]	75	150	300	[illegible]	500	500
10.01-25	25	25	[illegible]	[illegible]	[illegible]	200	500	500
25.01-50	25	25	[illegible]	[illegible]	75	100	300	500
50.01-100	20	25	25	35	[illegible]	75	150	300
100.01+	[illegible]	20	25	25	25	[illegible]	50	100

Waters Supporting Warm Water Fisheries

Surface Water Drainage Area, square miles

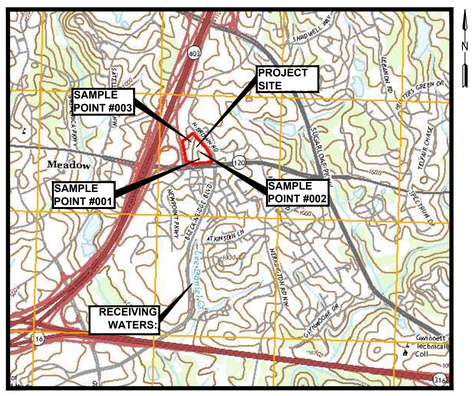
Site Size, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

35. FOR THE DELINEATION OF ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS, AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED, REFER TO SHEET NOs. 54-0001 THRU 54-0003 AND THE USGS TOPOGRAPHIC MAP BELOW.



LUXOMNI QUADRANGLE
GEORGIA
7.5 MINUTE SERIES

GSWCC AND NPDES NOTES (CONT'D.):

36. DESCRIPTION OF THE APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH PHASE OF EROSION AND SEDIMENT CONTROL:

EROSION CONTROLS AND MEASURES - INITIAL PHASE (INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAM (Rd), WHERE REQUIRED IN AREAS OF CONCENTRATED FLOW; SEDIMENT TRAPS (Sd4) FOR SEDIMENT STORAGE, INLET SEDIMENT TRAPS - CURB INLET PROTECTION (Sd2-P) TO PROTECT EXISTING STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); AND, DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2).

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMPs):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW

INTERMEDIATE PHASE BMPs MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

37. FOR GRAPHIC SCALE AND NORTH ARROW, REFER TO SHEET NO. 54-0001 THRU 54-0003.

38. FOR EXISTING AND PROPOSED CONTOUR LINES, REFER TO SHEET NO. 54-0001 THRU 54-0003.

39. USE OF ALTERNATIVE BMPs WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO, OR SUPERIOR TO, CONVENTIONAL BMPs AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY GAEPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION) SHALL NOT BE UTILIZED FOR THIS PROJECT.

IF THE USE OF ALTERNATIVE EROSION AND SEDIMENT CONTROL BMPs IS DETERMINED NECESSARY BY ON-SITE INSPECTION AND/OR AS FIELD CONDITIONS DICTATE TO CONTROL OR TREAT THE SEDIMENT SOURCE, REFERENCE SHALL BE MADE TO THE "ALTERNATIVE BMP GUIDANCE DOCUMENT" FOUND AT <www.gaswcc.georgia.gov>.

40. USE OF ALTERNATIVE BMP FOR APPLICATION TO EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 2016 EDITION. NO ALTERNATIVE BMP'S ARE PROPOSED FOR THIS DEVELOPMENT.

41. APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY/ GA EPD ARE DELINEATED ON SHEETS 54-0001 THRU 54-0003.

REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV):

(i.) 25-FOOT UNDISTURBED BUFFERS OF STATE WATERS;
(ii.) 50-FOOT UNDISTURBED BUFFERS ALONG DESIGNATED TROUT STREAMS; AND,
(iii.) 100-FOOT UNDISTURBED BUFFERS FOR PROJECTS IN THE VICINITY OF THE CHATTAHOOCHEE RIVER.

THIS PROJECT PROPOSES NO BUFFER ENCROACHMENT WITHIN THE STATE STREAM BUFFER; THEREFORE, THERE ARE NO REQUIREMENTS FOR STREAM BUFFER VARIANCE (SBV), OR ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY.

NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25-FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW, OR WAVE ACTION, EXCEPT WHERE A SBV IS APPROVED BY GA EPD.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES SHALL BE USED. THIS REQUIREMENT MUST BE IMPLEMENTED REGARDLESS OF WORK THAT IS APPROVED UNDER AN SBV, OR FOR A PROJECT THAT IS EXEMPT FROM AN SBV.

GSWCC AND NPDES NOTES (CONT'D.):

42. NO WETLANDS ARE ONSITE, HOWEVER WATERS OF THE STATE ARE LOCATED ON-SITE, OR WITHIN 200-FEET OF THE PROJECT LIMITS PER EPD VISIT. THE DELINEATION OF THESE ITEMS ARE SHOWN ON SHEET NO's. 54-0001 THRU 54-0003.

NO SENSITIVE AREAS (I.E. CULTURAL RESOURCES: ENDANGERED SPECIES, ARCHEOLOGICAL SITES, HISTORICAL SITES, ETC...) EXIST ON, OR WITHIN, 200-FEET OF THE PROJECT SITE.

NOTE: ALONG STREAM BANK BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE-"C" SILT FENCE, OR ONE ROW TYPE-"C" SILT FENCE BACKED BY HAYBALES, SHALL BE USED.

43. FOR THE DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE, REFER TO SHEET NO. 54-0001 FOR PRE AND SHEET NO. 54-0002 FOR POST. ALSO REFER TO SHEET 53-0001 FOR OVERALL BASIN ACREAGE AND FLOW.

44. HYDROLOGIC INFORMATION AND MAPS OF DRAINAGE BASINS FOR THE MASTER DETENTION POND IN BOTH THE PRE- AND POST-DEVELOPED CONDITIONS ARE PROVIDED IN THE ORIGINAL HYDROLOGY REPORT PREPARED FOR THE DISCOVER MILLS DEVELOPMENT. REFERENCE THE FOLLOWING "STORM WATER MANAGEMENT REPORT ADDENDUM FOR DISCOVER MILLS (a.k.a. SUGARLOAF MILLS), PREPARED BY PRECISION PLANNING, DATED 11-27-2000.

45. ESTIMATE OF THE RUNOFF COEFFICIENT, OR PEAK DISCHARGE FLOW OF THE SITE, PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:

SITE RUNOFF COEFFICIENTS	
DESCRIPTION	**C**
WEIGHTED PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.12
WEIGHTED POST-CONSTRUCTION RUNOFF COEFFICIENT	0.82

46. FOR STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION, REFER TO THE THE STORM DRAIN OUTLET PROTECTION DETAIL ON SHEET NO. 56-0002.

FOR THE IDENTIFICATION / DELINEATION OF ALL STORM WATER DISCHARGE POINTS, REFER TO SHEET NO. 54-0001 THRU 54-0003.

47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION:

A. REFER TO THE SOIL SERIES INFORMATION CHART BELOW.

B. REFER TO SHEET NOs. 54-0001 THRU 54-0003 FOR PROJECT SITE SOIL SERIES BOUNDARY DELINEATIONS.

C. REFERENCES:
1. UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY, 6 JUNE 2017. <http://websoilsurvey.nrcs.usda.gov/>

SOIL SERIES INFORMATION		
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC GROUP
AmC2	APPLING SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, ERODED	B
CfS	CHEWACLA SILT LOAM, 0 TO 2 SLOPES, FREQUENTLY FLOODED	B/D
CYB2	CECIL SANDY LOAM, 2 TO 4 PERCENT SLOPES, MODERATELY ERODED	B
CYC2	CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED	B
HdB	HARD LABOR SANDY LOAM, 2 TO 4 PERCENT SLOPES	C
LdC	LLOYD LOAM, 6 TO 10 PERCENT SLOPES	B
WrE2	WEDOWEE SANDY LOAM 10 TO 24 PERCENT SLOPES, ERODED	B

48. FOR THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION, REFER TO SHEET NO. 54-0001 THROUGH 54-0003.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

NOTE:

THE CONTRACTOR SHALL ACT ON THE BEHALF OF THE SRTA/ATL, THE PRIMARY PERMITTEE, AND IMPLEMENT THE ESPC NOTES ACCORDINGLY.

REGISTERED No. 21371 PROFESSIONAL 6/30/2021 ENGINEER GEORGE N. KARAVAS

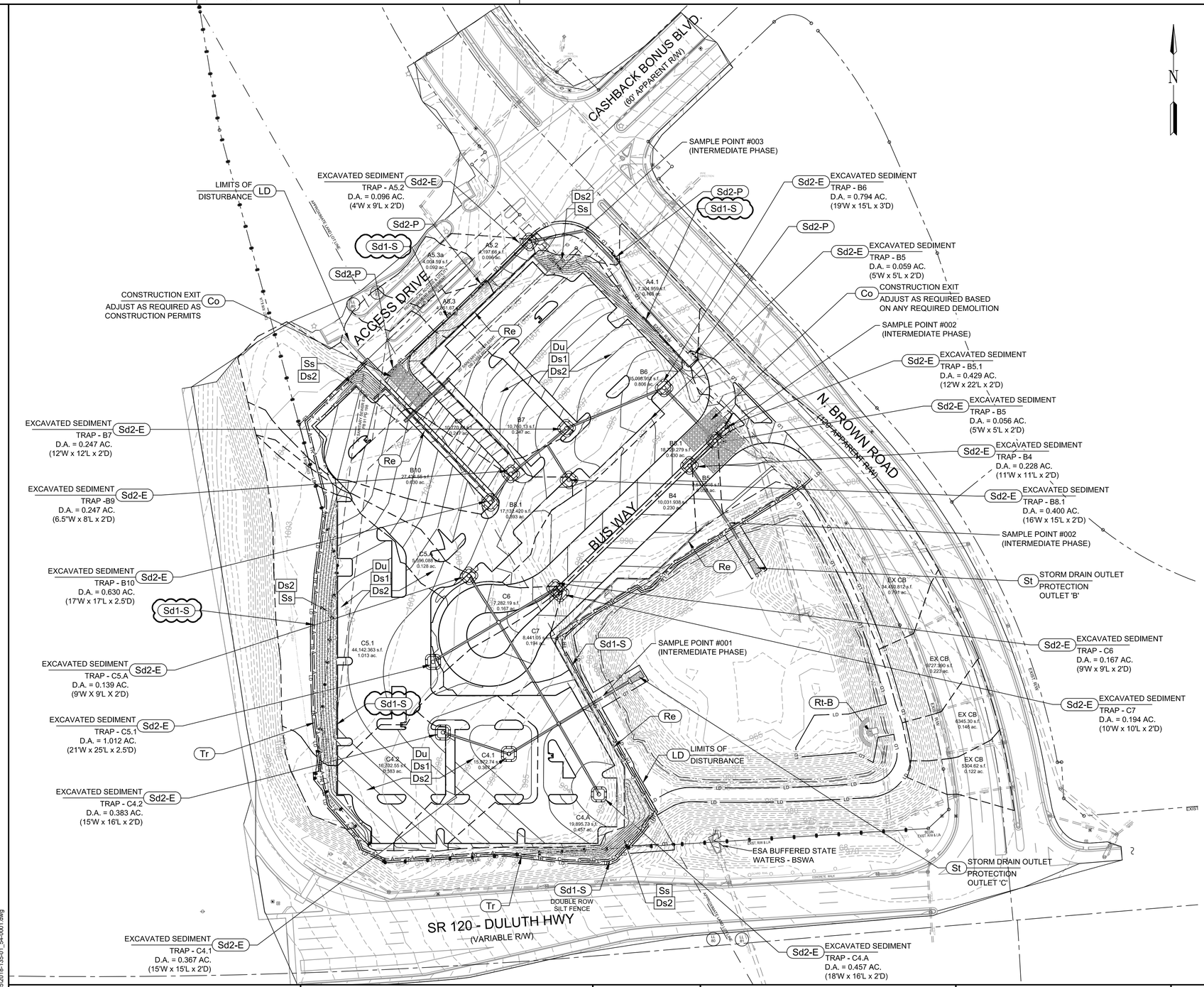
ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
05/14/2021		
06/30/2021		

ESPC NOTES

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE")
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)	Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)	Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Du	DUST CONTROL ON DISTURBED AREAS	Sd4-C	TEMPORARY SEDIMENT BASIN
Ss	SLOPE STABILIZATION	Fr	FILTER RING
Co	CONSTRUCTION EXIT	St	STORM DRAIN OUTLET PROTECTION
Cr	CONSTRUCTION ROAD	Rt-B	RETRO FIT - SLOTTED BOARD DAM
CWA	CONCRETE WASHDOWN AREA	Tr	TREE PROTECTION FENCE
Cd-S	STONE CHECK DAM	LD	LIMITS OF DISTURBANCE
Rd	ROCK FILTER DAM		SOIL SERIES DELINEATION BOUNDARY
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"		DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - INTERMEDIATE PHASE (GRADING AND DRAINAGE BMP's):

CONSTRUCTION EXIT (Co) TO PREVENT THE TRACKING OR FLOW OF MUD ONTO ADJACENT ROADS AND DRIVES; SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; ROCK FILTER DAMS (Rd), WHERE REQUIRED; EXCAVATED SEDIMENT TRAPS (Sd2-E) AT DRAINAGE STRUCTURES FOR SEDIMENT STORAGE; INLET SEDIMENT TRAPS (Sd2-F) TO PROTECT STORM DRAINAGE STRUCTURES; DIVERSION DITCHES (Di), WHERE REQUIRED TO DIRECT RUNOFF TO THE EXCAVATED SEDIMENT TRAPS ONCE INSTALLED; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH MULCHING ONLY (Ds1); DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING (Ds2); AND, EROSION CONTROL MATTING AND BLANKETS (Ss) ON ALL SLOPES STEEPER THAN 2.5:1 AND GREATER THAN 10 FEET IN HEIGHT AND IN AREAS OF CONCENTRATED FLOW.

INTERMEDIATE PHASE BMP's MUST BE INSPECTED AND MAINTAINED REGULARLY AND SHALL BE RELOCATED AND/OR RE-INSTALLED BY THE CONTRACTOR AS REQUIRED.

GENERAL EROSION CONTROL NOTES:

1. FOR EROSION AND SEDIMENT CONTROL NOTES, REFER TO SHEET NO's. 51-0001 THRU 51-0005.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO SHEET NO's. 56-0001 THRU 56-0009.
3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.
4. EXISTING POND SHALL BE MAINTAINED. SILT AND SEDIMENT MUST BE REMOVED PRIOR TO COMPLETION OF WORK.

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

PROPOSED MAJOR CONTOUR	HEADWALL
PROPOSED MINOR CONTOUR	DROP INLETS
EX MAJOR CONTOUR	STORM MANHOLE
EX MINOR CONTOUR	SPOT ELEVATIONS (94.50)
STORM PIPE	
SINGLE WINGED CATCH BASIN	
DOUBLE WINGED CATCH BASIN	

ATKINS
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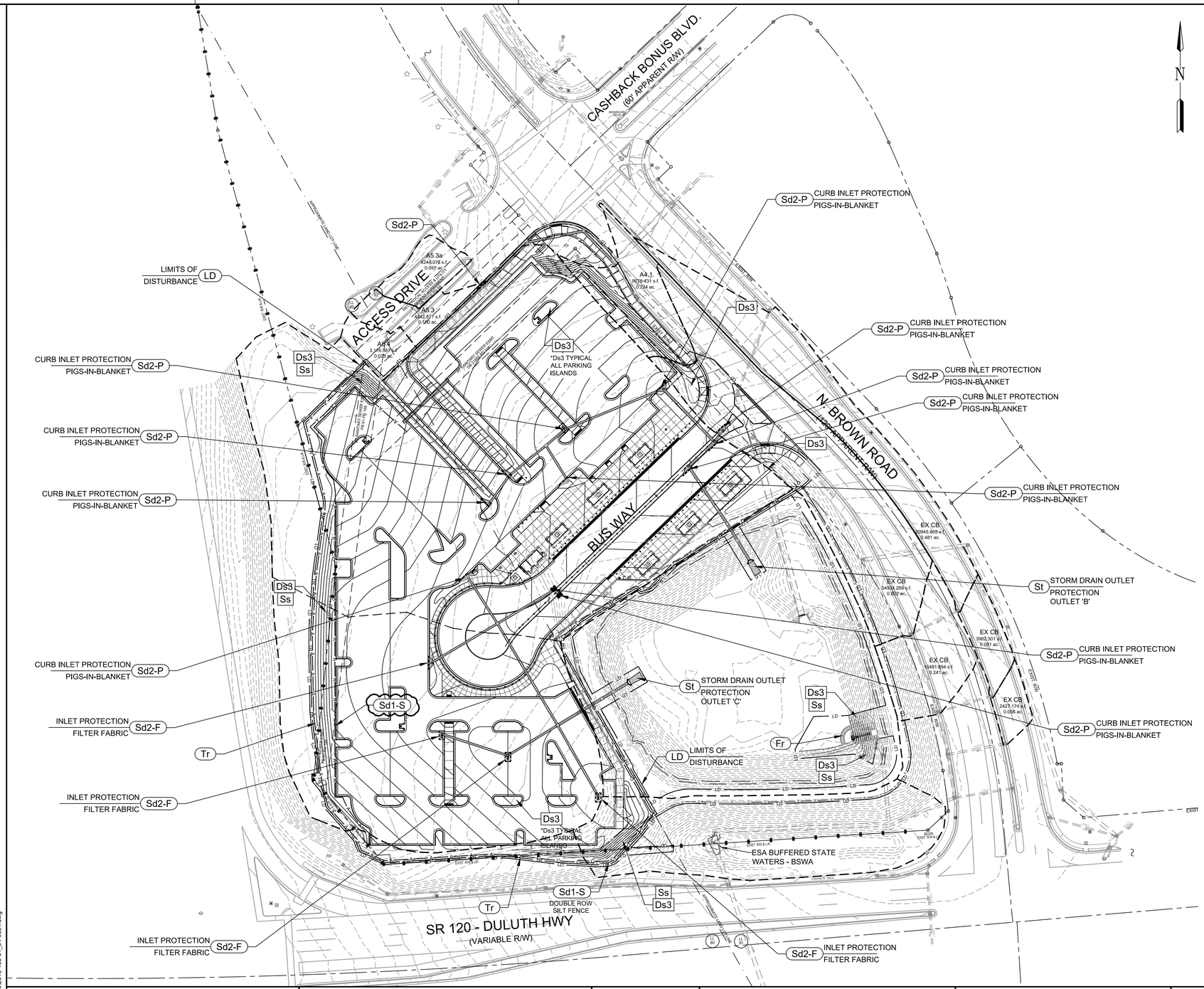
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

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

REVISION DATES		
05/14/2021		
06/30/2021		

ESPCP
BMP LOCATION DETAILS
PHASE II
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		54-0002
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



EROSION & SEDIMENT CONTROL PLAN LEGEND

Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING / VEGETATION)
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Ss	SLOPE STABILIZATION
Co	CONSTRUCTION EXIT
Cr	CONSTRUCTION ROAD
CWA	CONCRETE WASHDOWN AREA
Cd-S	STONE CHECK DAM
Rd	ROCK FILTER DAM
Sd1-CFS	SEDIMENT BARRIER - COMPOSITE SOCK FILTER - TYPE "B"
Sd1-S	SEDIMENT BARRIER - SILT FENCE ("TYPE C - SENSITIVE")
Sd2-E	INLET SEDIMENT TRAP - EXCAVATED
Sd2-F	INLET SEDIMENT TRAP - FABRIC & FRAME
Sd2-P	INLET SEDIMENT TRAP - CURB INLET FILTER ("PIGS-IN-A-BLANKET")
Sd4-C	TEMPORARY SEDIMENT BASIN
Fr	FILTER RING
St	STORM DRAIN OUTLET PROTECTION
Rt	RETRO FIT
Tr	TREE PROTECTION FENCE
LD	LIMITS OF DISTURBANCE
	SOIL SERIES DELINEATION BOUNDARY
	DRAINAGE AREA DIVIDE

GEORGE N. KAKUNES
GSWCC LEVEL II DESIGN PROFESSIONAL

GSWCC LEVEL II DESIGN PROFESSIONAL SIGNATURE

0000016834
GSWCC LEVEL II CERTIFICATION NUMBER GSWCC

11/09/2021
GSWCC LEVEL II CERTIFICATION EXPIRATION DATE

EROSION CONTROLS AND MEASURES - FINAL PHASE:

SILT FENCE "TYPE-C" (Sd1-S) FOR PERIMETER CONTROL; INLET SEDIMENT TRAPS (Sd2-F AND Sd2-P) TO PROTECT STORM DRAINAGE STRUCTURES; DUST CONTROL ON DISTURBED AREAS (Du); DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING (Ds3) AND/OR DISTURBED AREA STABILIZATION WITH SODDING (Ds4).

FINAL PHASE BMPs SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, AND SHALL BE REMOVED AFTER STABILIZATION HAS BEEN ACHIEVED.

GENERAL EROSION CONTROL NOTES:

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3. FOR SOIL SERIES INFORMATION AND CHART, REFER TO SHEET 51-0004.
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CASE NUMBER : 2020-00316

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Jul 16, 2021
AUTHORIZED

PROPOSED MAJOR CONTOUR		HEADWALL	
PROPOSED MINOR CONTOUR		DROP INLETS	
EX MAJOR CONTOUR		STORM MANHOLE	ST
EX MINOR CONTOUR		SPOT ELEVATIONS	+ 94.50
STORM PIPE			
SINGLE WINGED CATCH BASIN			
DOUBLE WINGED CATCH BASIN			

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(IN FEET)
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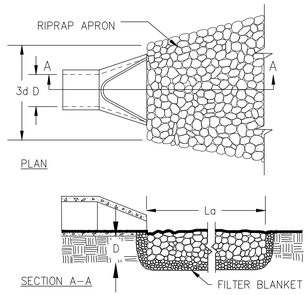
REVISION DATES		
05/14/2021		
06/30/2021		

ESPCP
BMP LOCATION DETAILS
PHASE III
ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

				DRAWING No.
CHECKED:		DATE:		54-0003
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

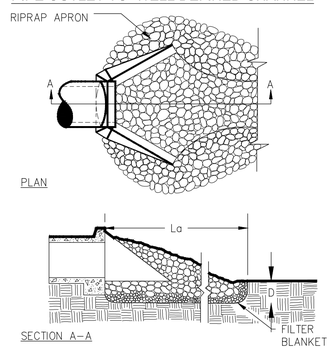
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



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

PIPE OUTLET TO WELL DEFINED CHANNEL

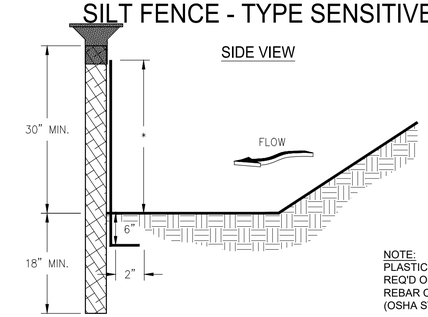


St — **STORM DRAIN OUTLET PROTECTION** (NOT TO SCALE) — 07 / 56-0002

FLOW CHARACTERISTICS					RIP-RAP APRON SIZING					
OUTFALL ID	PIPE DIA. (in)	FLOW RATE (cfs)	VELOCITY (ft/s)	TAILWATER CONDITION	APRON LENGTH La (ft)	WIDTH AT HEADWALL W1 (ft)	WIDTH DOWNSTREAM W2 (ft)	AVERAGE STONE DIA. D50 (in)	MAX. STONE DIA. Dmax (in)	STONE DEPTH D (in)
B-1	24	17.99	5.73	MAXIMUM	15.00	6.00	8.00	4	6	9
C-1	24	16.23	5.17	MAXIMUM	15.00	6.00	8.00	4	6	9

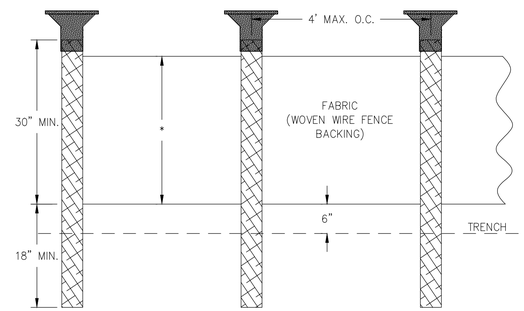
SILT FENCE - TYPE SENSITIVE

SIDE VIEW



NOTE:
PLASTIC PROTECTIVE CAP REQ'D ON ALL POSTS (TYP.)
REBAR CAP OR EQUIVALENT (OSHA STD. No. 1926.701(b)).

FRONT VIEW



NOTES:
1. USE STEEL ~~OR WOOD~~ POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S — **SEDIMENT BARRIER SILT FENCE ("TYPE-C")** (NOT TO SCALE) — 05 / 56-0002

MAINTENANCE STATEMENT (Sd1-S):

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Table 6-27.2 Post Size

Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood	3"dia or 2"x2"
		Steel	1.5" x1.5" 1.15lb./ft. min
S	4'	Steel Oak	1.15-1.25 lb./ ft. min 2"x2"

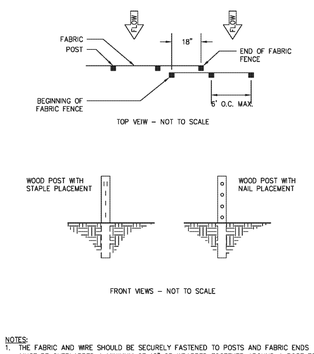
Table 6-27.3 Fasteners for Wood Posts

	Gauge	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/ Post
Nails	17 min.	1"	3/4"	4 min.

Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



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

Figure 6-27.5

GSWCC 2016 Edition 6-145

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/30/2021 GEORGE N. KANUNGO

ATKINS
Member of the SNC-Lavalin Group
Atkins North America, Inc
1600 RiverEdge Parkway NW, Ste. 700
Atlanta, GA 30328
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES		
05/29/19		
06/30/2021		

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

Retrofitting (Rt)

DEFINITION

A device or structure placed in front of a permanent stormwater detention pond outlet or roadway drainage structure to serve as a temporary sediment filter.

PURPOSE

Allows permanent stormwater detention basin structures to function as temporary sediment retention basins for land-disturbing projects, and allow roadway drainage to be used for temporary sediment storage.

CONDITIONS

This standard applies under the following conditions:

1. **Shall not be used in basins on live streams** or in basins with a total contributing drainage area of 100 acres or more.
2. Shall only be used in basins large enough to store 67 cubic yards of sediment per acre of disturbed area in the project.
3. Shall be considered a temporary structure and will be removed as soon as project is permanently stabilized. All accumulated sediment shall be removed, and the pond or basin shall be brought to final grade (if possible), prior to the removal of the retrofit.

DESIGN CRITERIA

1. The height of the retrofit should be approximately one-half the height of the structure.
2. **A retrofitted dention pond must be capable of storing the required volume of sediment in addition to the required stormwater volume.** The required sediment storage volume shall be achieved by either excavating the basin or raising the outlet structure's invert to achieve 67 cubic yards per acre of sediment storage. Remove sediment when one-third of the sediment storage capacity, not total pond capacity, is lost to sediment accumulation. This volume shall be marked on the riser or by setting a marked post near the riser.
3. For effective trapping efficiency, the sediment delivery inlets should be at the upper end of the basin.
4. For effective trapping efficiency, the length-width ratio of the basin shall be at least 2:1. If the length-width ratio is not at least 2:1, the flow length shall be increased with the use of baffles installed within the basin.

CONSTRUCTION SPECIFICATIONS

The following types of structures are acceptable under the designated conditions:

Perforated Half-Round Pipe with Stone Filter (See Figure 6-26.1) (Rt -P)

a. Should be used only in detention ponds with less than 30 acre total drainage area.
b. Never to be used on exposed pipe end or winged headwall.
c. Diameter of half-round pipe should be 1.5 times the diameter of the principal pipe outlet or wider than the greatest width of the concrete weir.
d. Perforations and stone sizes are shown in Figure 6-26.1.
e. Shall be affixed by specified means (bolts, etc) to concrete outlet structure.

Slotted Board Dam with Stone or Filter Fabric (See Figure 6-26.3) (Rt -B)

a. Can be used in detention ponds with drainage areas up to 100 acres, and on roadway-drainage structures with drainage areas less than 30 acres.
b. Can be used with open end pipe outlets, winged headwalls, or concrete weir outlets.
c. Should be installed with minimum size 4x4 inch posts.
d. Boards should have 0.5-1.0 inch space between them.
e. Minimum size 3-4 inch stone filter or approved filter fabric shall be installed around the upstream side of the board dam.

Example of Slotted Board Dam

Silt Control Gate (See figure 6-26.3, 6-26.4, 6-26.5) (Rt -Sg)

The silt control gate may be used for temporary sediment storage on linear construction projects including roadway construction or maintenance, and utility line installation. The following specifications shall apply:

a. Shall only be used on roadway drainage structures with the following inlets: winged headwalls, tapered headwalls, straight headwalls, open end pipes, or flared end sections.
b. Drainage area to the silt control gate shall not exceed 50 acres, and the disturbed area of the basin shall not exceed 5 acres.
c. Post shall be 4"x4" treated lumber, and face boards shall be 2"x6" treated lumber with no spacing allowed between the boards.
d. An approved silt fence fabric shall be securely fastened to the front of the structure using staples or nails.
e. Sediment shall be removed and properly disposed of when it reaches one-third the height of the silt gate. Filter fabric shall be replaced when damaged or deteriorated.
f. Silt control gates should not be used as perimeter control alone, but instead be part of a treatment train that allows the drainage structure to discharge through another barrier before leaving the project.

All disturbed areas shall be vegetated immediately after construction with permanent vegetation. Refer to **Ds3** and **Ds4 - Disturbed Area Stabilization (With Permanent Vegetation)** and **Disturbed Area Stabilization (With Sodding)** and **Ss- Slope Stablization.**

MAINTENANCE

Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been lost. *Structures are temporary and shall be removed when disturbed areas have been permanently stabilized.*

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations

1. Required stormwater storage = 21,683 cy @ 962.48 for 25-year storm event (as determined by local ordinance)
2. Required sediment storage = 411.38 cy (67 cy/ac * 6.14 ac disturbed area)
3. Total required storage = (1) + (2) = (3) cy 22,094.38
4. Available storage = (4) cy 31,597.55 @ 962.48
5. Is the available storage (4) greater than the total required storage (3)?
   ✓ yes ____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   ____ Raise the invert of the outlet structure ____ inches
   ____ Undercut the pond ____ feet
   ____ Other ____
7. Clean-out elevation = 1 ft (Elevation corresponding to 22 cy/ac * 6.14 ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
   ✓ yes ____ no
9. If "no", the length of flow must be increased. Choose the method to be used:
   ____ Baffles (Type of baffle ____)
   ____ Other ____

Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = NA inches Height = NA feet

Top of Baffle Box @ Elev. 977.11

Filter Ring (Fr)

DEFINITION

A temporary stone barrier constructed at storm drain inlets and pond outlets.

PURPOSE

This structure reduces flow velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed area.

CONDITIONS

Filter rings shall be used in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate (such as inlets to concrete flumes). They can be installed at or around devices such as inlet sediment traps, temporary downdrain inlets, and detention pond retrofits to provide additional sediment filtering capacity.

DESIGN CRITERIA

Formal design is not required. The following standards shall be used:

Location

The filter ring shall surround all sides of the structure receiving runoff from disturbed areas. It should be placed a minimum of four feet from the structure. The ring is not intended to substantially impound water, causing flooding or damage to adjacent areas.

The filter ring may also be placed below storm drains discharging into detention ponds, creating a centralized area, or "forebay", for sediment accumulation. This provides for easier, more localized clean-out of the pond. If utilized above a retrofit structure, it should be a minimum of 8 to 10 feet from the retrofit.

Stone Size

When utilized at inlets with diameters less than 12 inches, the filter ring shall be constructed of stone no smaller than 3-5 inches (15 - 30 lbs.).

When utilized at pipes with diameters greater than 12 inches, the filter ring shall be constructed of stone no smaller than 10-15 inches (50 - 100 lbs.).

The larger stone can be faced with smaller filter stone on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring higher maintenance.

Height

The filter ring shall be constructed at a height no less than two feet from grade.

CONSTRUCTION SPECIFICATIONS

Mechanical or hand placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications.

The filter ring may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill.

A common failure of a filter ring is caused by placing it too close to or too high above the structure it is enhancing. When utilized below a storm drain outlet, it shall be placed such that it does not create a condition causing water to back-up into the storm drain and inhibit the function of the storm drain system.

MAINTENANCE

The filter ring must be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-half full. Structures are temporary and should be removed when the land-disturbing project has been stabilized.

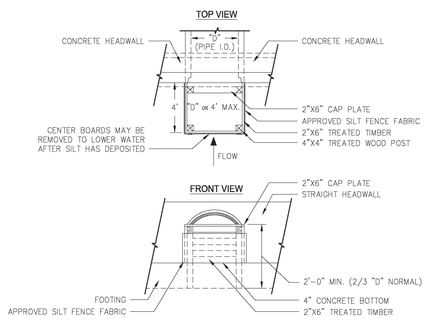
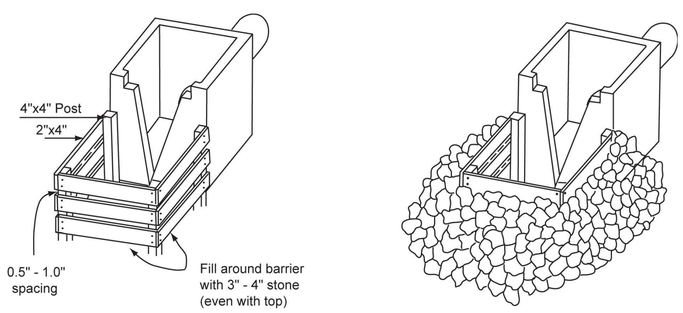


Figure 6-26.3 Slotted Board Dam with Stone or Filter Fabric



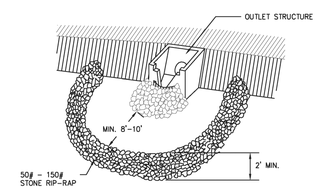
SLOTTED BOARD DAM WITH STONE FILTER

Figure 6-19.3

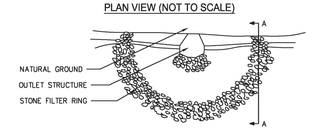
Rt-B **RETRO FIT** (NOT TO SCALE) 01 54-0001-54-0002

STONE FILTER RING

PERSPECTIVE VIEW



PLAN VIEW (NOT TO SCALE)



CROSS SECTION (NOT TO SCALE)

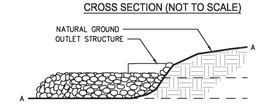


Figure 6-20.1

Fr **FILTER RING** (NOT TO SCALE) 02 54-0003

CASE NUMBER : 2020-00316

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Jul 16, 2021
AUTHORIZED

REGISTERED No. 21371 PROFESSIONAL ENGINEER 8/30/2021 GEORGE N. KARUNES

ATKINS
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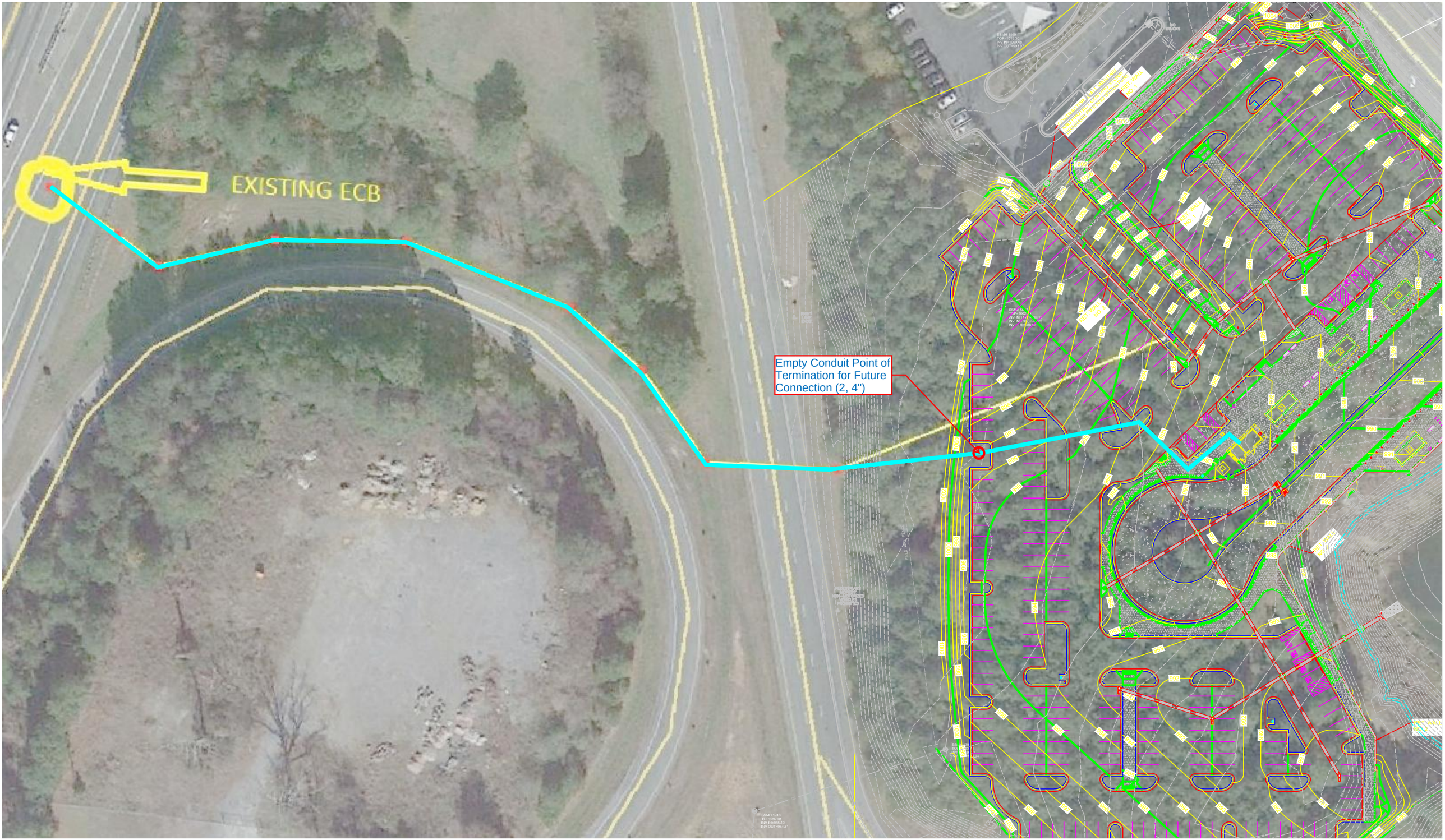
Tel: (770)933-0280
Certificate of Authorization #PEF000902
Expiration Date 06/30/2022

REVISION DATES
05/14/2021
06/30/2021

ESPC DETAILS

ATLANTA REGION TRANSIT LINK AUTHORITY PROJECT NO 21-073
SUGARLOAF XPRESS PARKWAY PARK AND RIDE LOT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	


EXISTING ECB
Empty Conduit Point of Termination for Future Connection (2, 4")