PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD, DORAVILLE, GA 30340
CITY OF DORAVILLE, DEKALB COUNTY, GEORGIA

NOTES

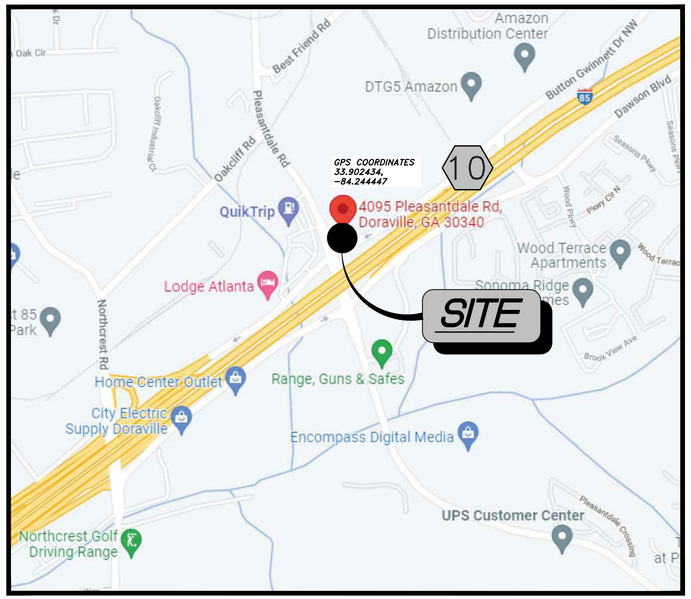
1. THERE ARE NO WETLANDS OR FLOODPLAIN ON SITE. THERE IS NO WORK TO BE PERFORMED IN ANY FLOODPLAIN OR WETLAND AREA.
2. THERE ARE ARE STATE WATERS ON THE PROPERTY AND WITHIN 200 FEET OF THE PROPERTY
3. ALL WALLS OVER 4 FEET TO BE PERMITTED SEPARATELY.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
5. 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.
6. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING
7. ALL STORMWATER INFRASTRUCTURES ON THIS SITE AREA PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY
8. THE SITE IS NOT LOCATED IN THE FLOODPLAIN AND THE PROPERTY IS LOCATED ON FIRM PANEL 13089C0038K, DATED 8-15-2019
9. STORMWATER INFRASTRUCTURE IS PROVIDED ONSITE
10. CITY OF DORAVILLE ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENT OF THE STREET RIGHT-OF-WAY, OR FOR THE EXTENSION OF CULVERTS BEYOND THE POINT SHOWN ON THE APPROVED AND RECORDED PLAN.
11. SOURCE OF BOUNDARY, UTILITY AND TOPOGRAPHY WAS COMPLETED BY GRANT SHEPARD & ASSOCIATES, DATED 9-29-2021 AND REFERENCE DATUM IS NGVD83
12. MAXIMUM SLOPE FOR CUT OR FILL IS 2H:1V EXCEPT EARTHEN DAM EMBANKMENTS SHALL BE 3H:1V.
13. THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED ; AND 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE ARE OF THE UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE WETLANDS ALTERATION PERMIT HAS BEEN OBTAINED.

IT IS THE OWNER'S/DEVELOPERS'S RESPONSIBILITY TO BE IN COMPLIANCE WITH APPLICABLE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) PERMIT AND CLEAN WATER ACT REQUIREMENTS

APPLICABLE CODES

IBC: INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
IRC: INTERNATIONAL RESIDENTIAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
IFC: INTERNATIONAL FIRE CODE, 2018 EDITION (NO GEORGIA AMENDMENTS)
IPC: INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
IMC: INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
IFGC: INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
NEC: NATIONAL ELECTRICAL CODE, 2017 EDITION (NO GEORGIA AMENDMENTS)
IECC: INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA SUPPLEMENTS & AMENDMENTS (2020)
ISPSC: INTERNATIONAL SWIMMING POOL AND SPA CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
NFPA 101 LIFE SAFETY CODE, 2018 EDITION
GA ACCESSIBILITY CODE 120-3-20 / 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE SAFETY STANDARDS
IPMC: 2006 INTERNATIONAL PROPERTY MAINTENANCE CODE, WITH 2009 GEORGIA STATE AMENDMENTS

SEPARATE PERMIT MUST BE RECEIVED FOR THE EXCAVATION AND THE INSTALLATION OF THE UNDERGROUND TANKS.



VICINITY MAP 7
N.T.S.

UTILITY PROVIDER CONTACT INFORMATION

CITY OF DORAVILLE
CONTACT: NAOMI SIODMOK
3725 PARK AVENUE
DORAVILLE, GEORGIA 30340
PH: (770) 451-8745

DEKALB COUNTY WATER AND SEWER AUTHORITY
CONTACT: LES MOSELY
PHONE: 404-371-3213

GEORGIA POWER
PHONE: 404-506-6539

ZAYO FIBER
PHONE: 470-249-5124

GAS
ATLANTA GAS LIGHT
WWW.ATLANTAGASLIGHT.COM
PHONE: 404-387-3164
CONTACT: THOMAS BRANDON

AT&T
CONTACT: ANGELO HINES
PHONE: 305-409-1542

PRIMARY PERMITTEE/DEVELOPER INFO.

OWNER'S INFORMATION:	M&A BUSINESS VENTURES, LLC
OWNER REPRESENTATIVE:	STROUD AND COMPANY ATTN: DON LEONARD PO BOX 4044 MACON, GEORGIA 31208 PHONE: (478) 743-5097 EMAIL: DLEONARD@STROUDANDCOMPANY.COM

5

ARCHITECTS CONTACT INFORMATION

CONTACT ARCHITECT:	MRP DESIGN – KEN DALTON
PHONE:	770-917-9172
ADDRESS:	3450 ACWORTH DUE WEST ROAD, BUILDING 100, SUITE 120 KENNESAW, GEORGIA 30144

ENGINEERS CONTACT INFORMATION

MASS ENGINEERING AND CONSULTANT, LLC.

CONTACT ENGINEER:	JEFFREY MASISAK PE, CPESC
PHONE:	404.403.5224
ADDRESS:	3459 ACWORTH DUE WEST ROAD, SUITE 565 ACWORTH, GEORGIA 30101

SHEET INDEX

PROJECT NARRATIVE

PROJECT NAME: PROPOSED CONVENIENCE STORE
SITE ADDRESS/LOCATION: 4095 PLEASANTDALE ROAD, DORAVILLE, GA 30340

OWNER REP/DEVELOPER: STROUD AND COMPANY
ADDRESS: PO BOX 4044, MACON, GA 31208

PERSON(S) TO BE CONTACTED BY COUNTY IN CASE OF DEVELOPMENT OR CONSTRUCTION PROBLEMS.

OWNERS REPRESENTATIVE: DON LEONARD
ADDRESS: PO BOX 4044, MACON, GA 31208, PH (478)-743-5097

PROPOSED USE OF LAND: M-1
MINIMUM FRONT YARD BUILDING SETBACK: 85-FEET
MINIMUM REAR YARD BUILDING SETBACK: 50-FEET
MAXIMUM BUILDING HEIGHT: 50-FEET
MAXIMUM IMPERVIOUS COVERAGE: 70%
SIDE SETBACK: 12-FEET PER VARIANCE
REAR SETBACK: 15 FEET PER SETBACK

TOTAL SITE AREA:	0.7932 AC
TOTAL DISTURBED SITE AREA:	0.7932 AC
EXISTING IMPERVIOUS AREA:	0.662 AC
EXISTING GRASSED/PERVIOUS AREA:	0.1312 AC
EXISTING IMPERVIOUS COVERAGE:	83.4%
PROPOSED IMPERVIOUS AREA:	0.6432 AC
PROPOSED GRASSED/PERVIOUS AREAS:	0.15 AC
IMPERVIOUS COVERAGE:	81.0%

6 9

THE EXISTING SITE IS CURRENTLY A DEVELOPED COMMERCIAL SITE. ALL EXISTING BUILDINGS AND INFRASTRUCTURE WILL BE DEMOLISHED FOR THE PROPOSED CONVENIENCE STORE PROJECT. THE PROPOSED DEVELOPMENT WILL CONSTRUCT ONE BUILDING ALONG WITH NEW INFRASTRUCTURE. NEW UNDERGROUND STORMWATER FACILITY WILL BE INSTALLED, EXISTING WATER & SANITARY SEWER CONNECTION WILL BE USED, CURB AND GUTTER, ASPHALT PAVEMENT, FENCING, SIDEWALK AND TEMPORARY EROSION CONTROL MEASURES. THE TOTAL PROPERTY AREA IS 0.7932 ACRES AND THE TOTAL PROJECT WILL DISTURB 0.7932 ACRES WITH SOME AREAS BEING IMPACTED IN THE COUNTY RIGHT-OF-WAY.

SUBMITTAL DATE:
SUBMITTAL TO CITY - APRIL 28, 2022
RE-SUBMITTAL TO CITY - JULY 14, 2022

CITY OF DORAVILLE
LAND DISTURBANCE REVIEW
☒ No Exceptions Taken ☐ Revise & Resubmit ☐ REJECTED
The review of these plans is for general compliance with City of Doraville regulations & requirements. Markings or comments shall not be construed as relieving applicant/designer/owner or contractor from compliance with said regulations & requirements.
Permit No. 220428
Reviewed by
3/2/23
Date

GEORGIA811
www.Georgia811.com

811 NOTE:
THE CONTRACTOR/INSTALLER SHALL ADHERE TO THE GEORGIA UTILITIES PROTECTION CENTER "GEORGIA 811 CALL BEFORE YOU DIG" LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT 1.800.282.7411 OR 811 48 HOURS PRIOR TO BEGINNING ANY GROUND DISTURBING ACTIVITIES.

4 **EROSION CONTROL 24-HR CONTACT: DON LEONARD 478-743-5097**

2 4-28-2022
JEFFREY P. MASISAK, PE, CPESC DATE
CSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

1 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE
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M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD, SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

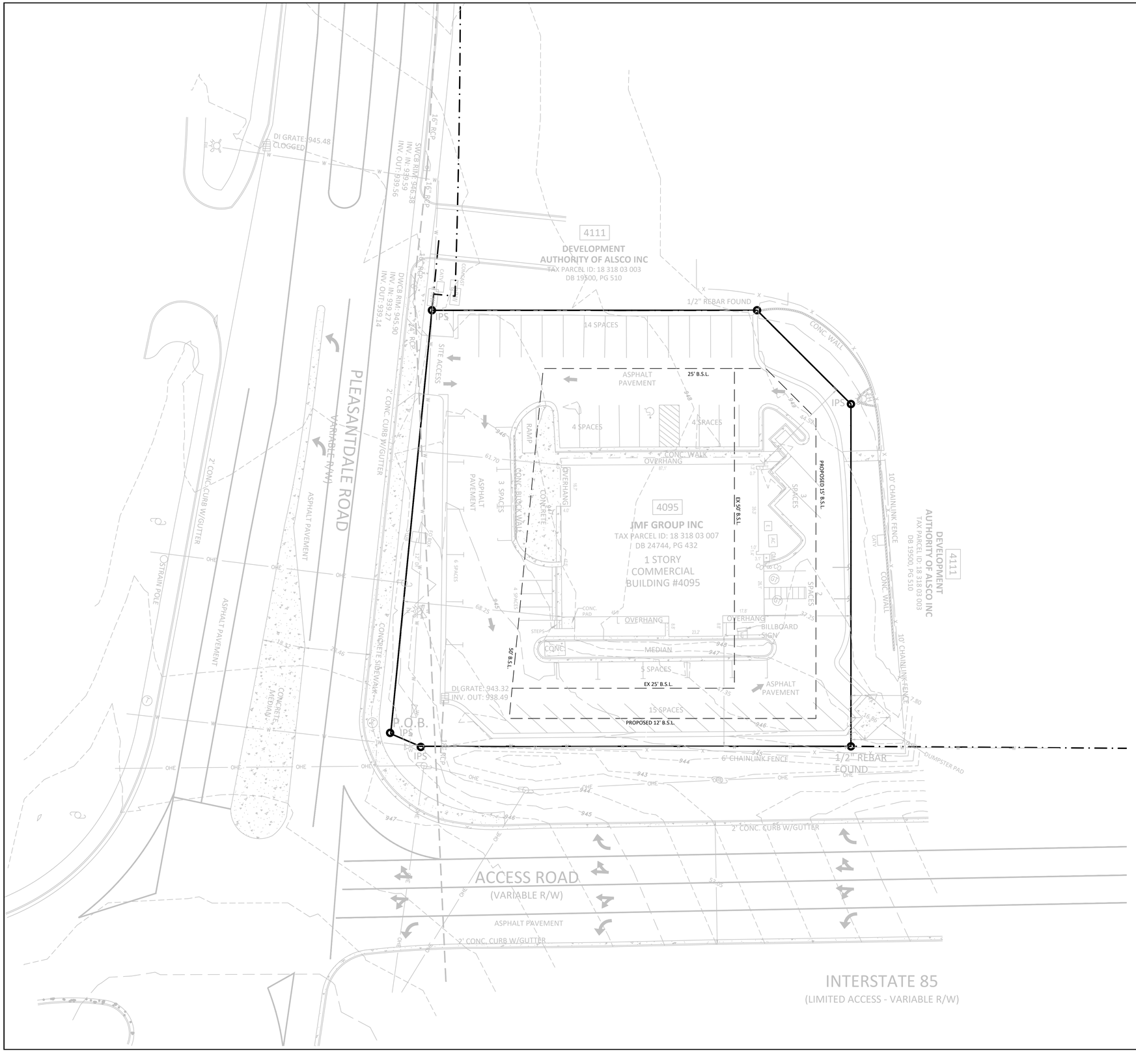
REVISIONS

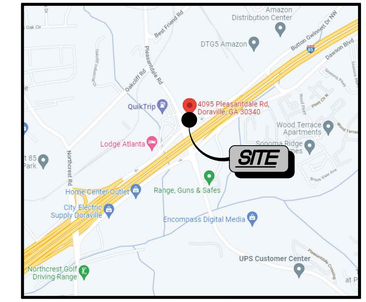
DATE:	DESCRIPTION

COVER

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-01





VICINITY MAP
N.T.S.

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASSAM
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

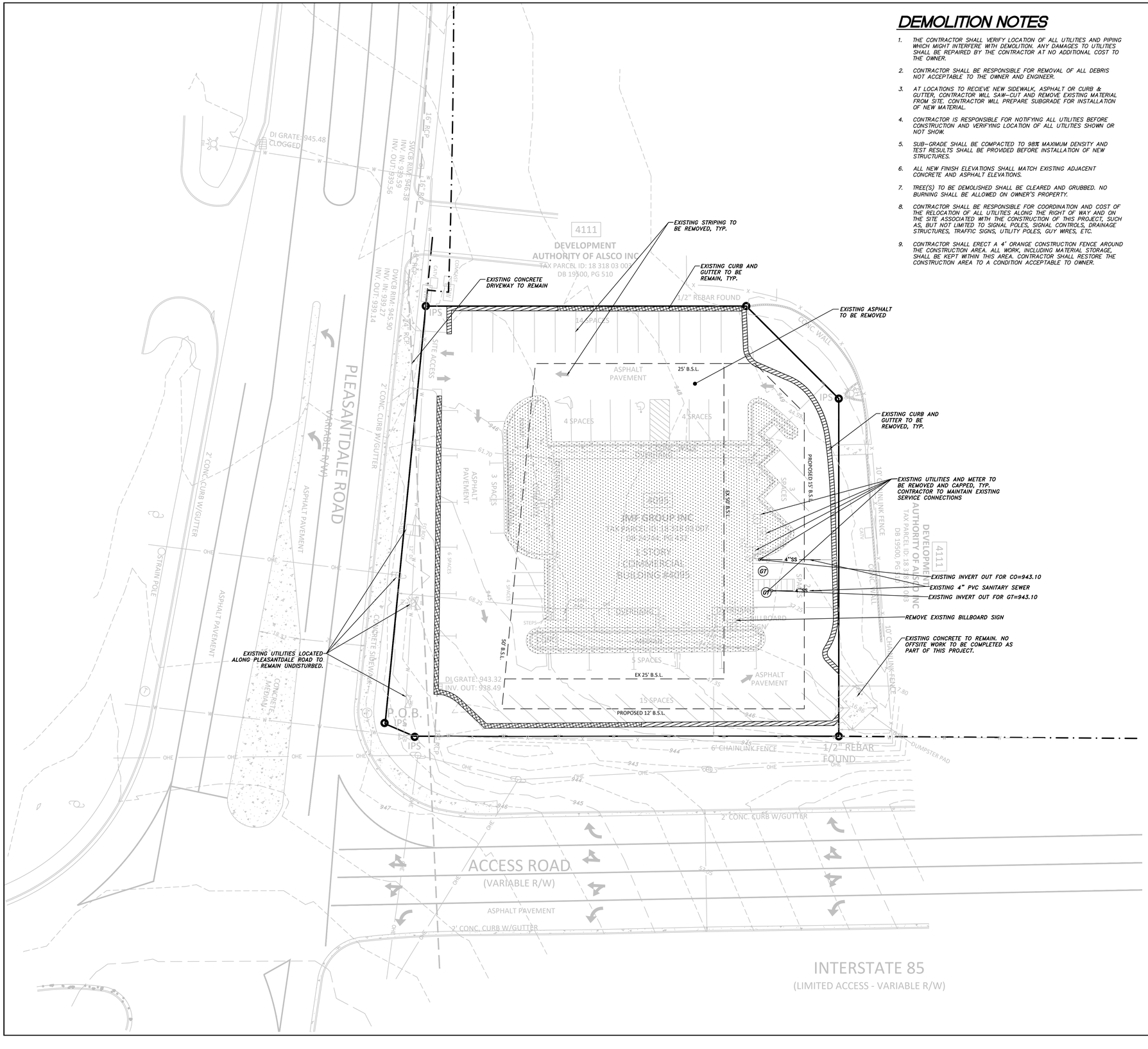
EXISTING CONDITIONS

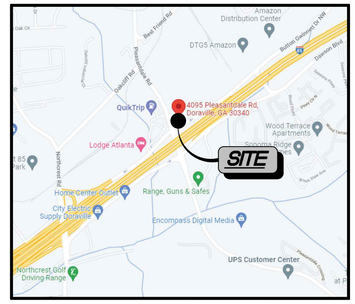
PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-02

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND PIPING WHICH MIGHT INTERFERE WITH DEMOLITION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
3. AT LOCATIONS TO RECIEVE NEW SIDEWALK, ASPHALT OR CURB & GUTTER, CONTRACTOR WILL SAW-CUT AND REMOVE EXISTING MATERIAL FROM SITE. CONTRACTOR WILL PREPARE SUBGRADE FOR INSTALLATION OF NEW MATERIAL.
4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOW.
5. SUB-GRADE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AND TEST RESULTS SHALL BE PROVIDED BEFORE INSTALLATION OF NEW STRUCTURES.
6. ALL NEW FINISH ELEVATIONS SHALL MATCH EXISTING ADJACENT CONCRETE AND ASPHALT ELEVATIONS.
7. TREE(S) TO BE DEMOLISHED SHALL BE CLEARED AND GRUBBED. NO BURNING SHALL BE ALLOWED ON OWNER'S PROPERTY.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
9. CONTRACTOR SHALL ERECT A 4' ORANGE CONSTRUCTION FENCE AROUND THE CONSTRUCTION AREA. ALL WORK, INCLUDING MATERIAL STORAGE, SHALL BE KEPT WITHIN THIS AREA. CONTRACTOR SHALL RESTORE THE CONSTRUCTION AREA TO A CONDITION ACCEPTABLE TO OWNER.





VICINITY MAP

N.T.S.

DEMOLITION LEGEND

- PROPERTY LINE
- EASEMENT LINE
- SETBACK LINE
- WOODEN FENCE
- CHAIN LINK FENCE
- GAS SERVICE
- SANITARY SEWER
- OVERHEAD ELECTRIC & TELEPHONE
- UNDERGROUND ELECTRIC & TELEPHONE SERVICE
- WATER SERVICE
- STORM SEWER PIPE
- CONCRETE SIDEWALK (SEE DETAIL)
- CONCRETE CURB AND GUTTER (SEE DETAIL)
- CONCRETE CURB (SEE DETAIL)
- STOP BAR (PAVEMENT MARKING)
- TRAFFIC FLOW ARROW (PAVEMENT MARKING)
- "HANDICAP PARKING" SIGN
- "STOP" SIGN (R1-1)
- HANDICAP STALL
- WHEEL STOP
- A.D.A. STD HANDICAP RAMP
- RELOCATED LIGHT POLE
- GROUP OF FOUR GUARD POSTS
- RETAINING WALL
- HEAVY DUTY PAVING
- CONCRETE DUMPSTER PAD LOCATION
- PARKING SPACE COUNT 9'x18'
- "YIELD" BAR (PAVEMENT MARKING)
- STORM SEWER GRATE
- SITE LIGHTING FIXTURES
- RIGHT-OF-WAY TO BE DEDICATED
- GREASE TRAP 9'-0" x 5'-4"
- ELECTRICAL TRANSFORMER
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- AREA TO BE REMOVED
- WATER METER W/BACKFLOW PREVENTER
- GATE VALVE
- DOUBLE DETECTOR CHECK
- FDC FIRE DEPARTMENT CONNECTION

PROPOSED CONVENIENCE STORE

4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:

M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

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3459 ACWORTH DUE WEST RD, SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

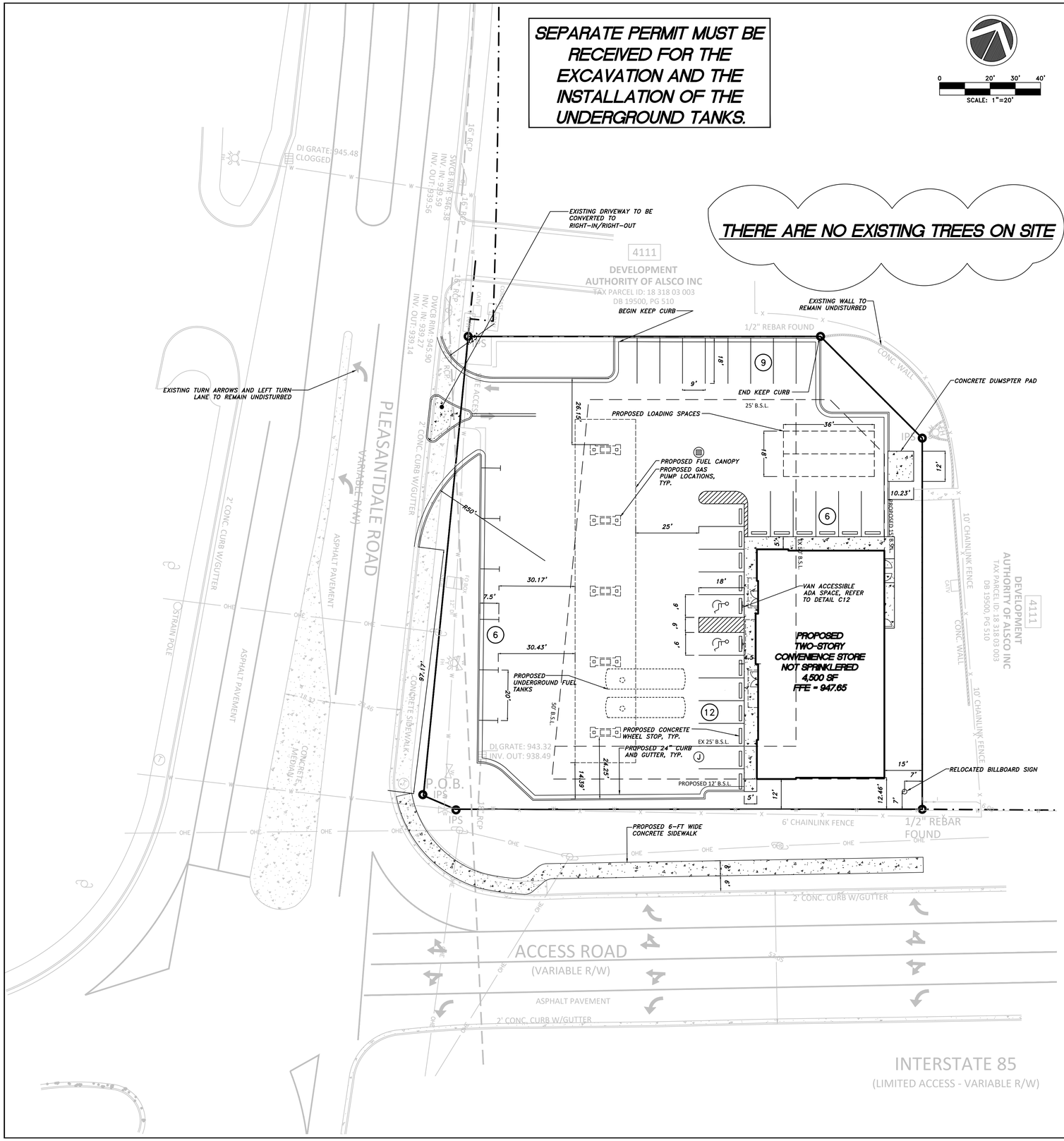
DEMOLITION PLAN

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

C-03

SEPARATE PERMIT MUST BE RECEIVED FOR THE EXCAVATION AND THE INSTALLATION OF THE UNDERGROUND TANKS.



GDOT NOTES:

THE WORK AUTHOPRIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDUALE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER, (2)GRADING EXCEPT AT THE DRIVEWAY CONSTRUCTION LOCATION, (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFROM, (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELLERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVEMENT AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

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

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO DOT SPECIFICATIONS ALL RIGHT-OF-WAY THAT IS DISTURBED DURING WORK AUTORIZED HEREIN.

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

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASS. 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
1 1/4"----------12.5 MM SUPERPAVE
2"----------19 MM SUPERPAVE
8"----------25 MM SUPERPAVE
12"----------GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

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

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITTEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

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

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

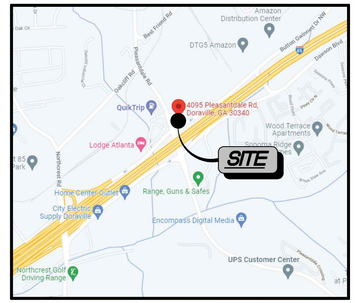
ALL WORK PERFORMED WITHIN THE GDOT R/W SHALL CONFORM TO GDOT STANDARDS AND DETAILS

EXISTING SPEED LIMIT ALONG PLEASANTDALE ROAD IS 35 MPH

TOTAL STATE ROUTE PROPERTY FRONTAGE - 381.54'

SITE NOTES

1. *ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.*
2. *REFERENCE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, TRUCK DOCKS, SIDEWALKS, STEPS, TRANSFORMER PADS, ETC.*
3. *TOPOGRAPHIC BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY: GRANT SHEPARD & ASSOCIATES DATED 9-29-2021 AND REFERENCE DATUM IS NGVD83*
4. *ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING.*
5. *CONCRETE TRUCK DOCKS ARE BY THE BUILDING CONTRACTOR.*
6. *ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS AND STATE CODE.*
7. *ALL TRAFFIC SIGNS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL MANUAL AND THE STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION.*
8. *ALL STRIPED OR CURBED RADII SHALL BE 5' UNLESS OTHERWISE NOTED.*
9. *THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.*
10. *SITE LIGHTING SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK. ALL PARKING LOT LIGHTING POLES, BASES AND FIXTURES WITH LAMPS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR AND SHALL SUPPLY A ONE YEAR WARRANTY CERTIFICATE.*
11. *CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.*
12. *SITE CONTRACTOR SHALL SUPPLY AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.*
13. *ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.*
14. *ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY.*
15. *ALL CONCRETE SHALL BE 3,000 PSI 28 DAY COMPRESSIVE STRENGTH.*
16. *PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.*
17. *ALL CURB AND GUTTER WITHIN THE DEVELOPMENT SHALL BE 18" AND 24". IT SHALL BE 30" WITHIN THE R.O.W. UNLESS NOTED OTHERWISE.*
18. *PARKING LOT STRIPING SHALL BE INCLUDED IN PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATIONS UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).*
19. *LIGHT POLE BASES SHALL BE PAINTED TRAFFIC YELLOW PER SITE WORK SPECIFICATIONS.*
20. *THE CONTRACTOR IS RESPONSIBLE FOR AVOIDANCE OF ALL WETLANDS AREAS AS ILLUSTRATED IN THE WETLANDS DELINEATION PACKAGE.*
21. *THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL OFF-SITE EASEMENTS NOT DELINEATED ON PLANS OR KNOWN OF AT TIME OF PLAN ISSUANCE.*
22. *THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WORK AND APPURTENANCE TO WITHIN 5' OF THE BUILDING. THIS INCLUDES TRANSFORMER AND DUMPSTER PADS AS WELL AS ALL UTILITY CONDUITS.*



VICINITY MAP

N.T.S.

SITE LEGEND

- PROPERTY LINE
- EASEMENT LINE
- SETBACK LINE
- WOODEN FENCE
- CHAIN LINK FENCE
- CONCRETE SIDEWALK (SEE DETAIL)
- CONCRETE CURB AND GUTTER (SEE DETAIL)
- CONCRETE CURB (SEE DETAIL)
- STOP BAR (PAVEMENT MARKING)
- TRAFFIC FLOW ARROW (PAVEMENT MARKING)
- "NO PARKING FIRE LANE" SIGN
- "YIELD" (PAVEMENT MARKING)
- DIRECTIONAL ARROWS (PAVEMENT MARKING)
- "ONLY" DIRECTIONAL ARROW (PAVEMENT MARKING)
- "STOP" SIGN (R1-1)
- HANDICAP STALL AND DESIGNATED VAN STALL
- WHEEL STOP
- A.D.A. STD HANDICAP RAMP
- RELOCATED LIGHT POLE
- GROUP OF FOUR GUARD POSTS
- RETAINING WALL (LENGTH AT SYMBOL) BY OTHERS
- HEAVY DUTY PAVING
- CONCRETE DUMPSTER PAD LOCATION (6" THICK)
- PARKING SPACE COUNT 9'x18'
- COMPACT PARKING SPACE 8'x18' & 8'x16'
- STORM SEWER GRATE
- SITE LIGHTING FIXTURES
- RIGHT-OF-WAY TO BE DEDICATED

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LAND LOTS 318, 18TH DISTRICT

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6/28/22

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PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

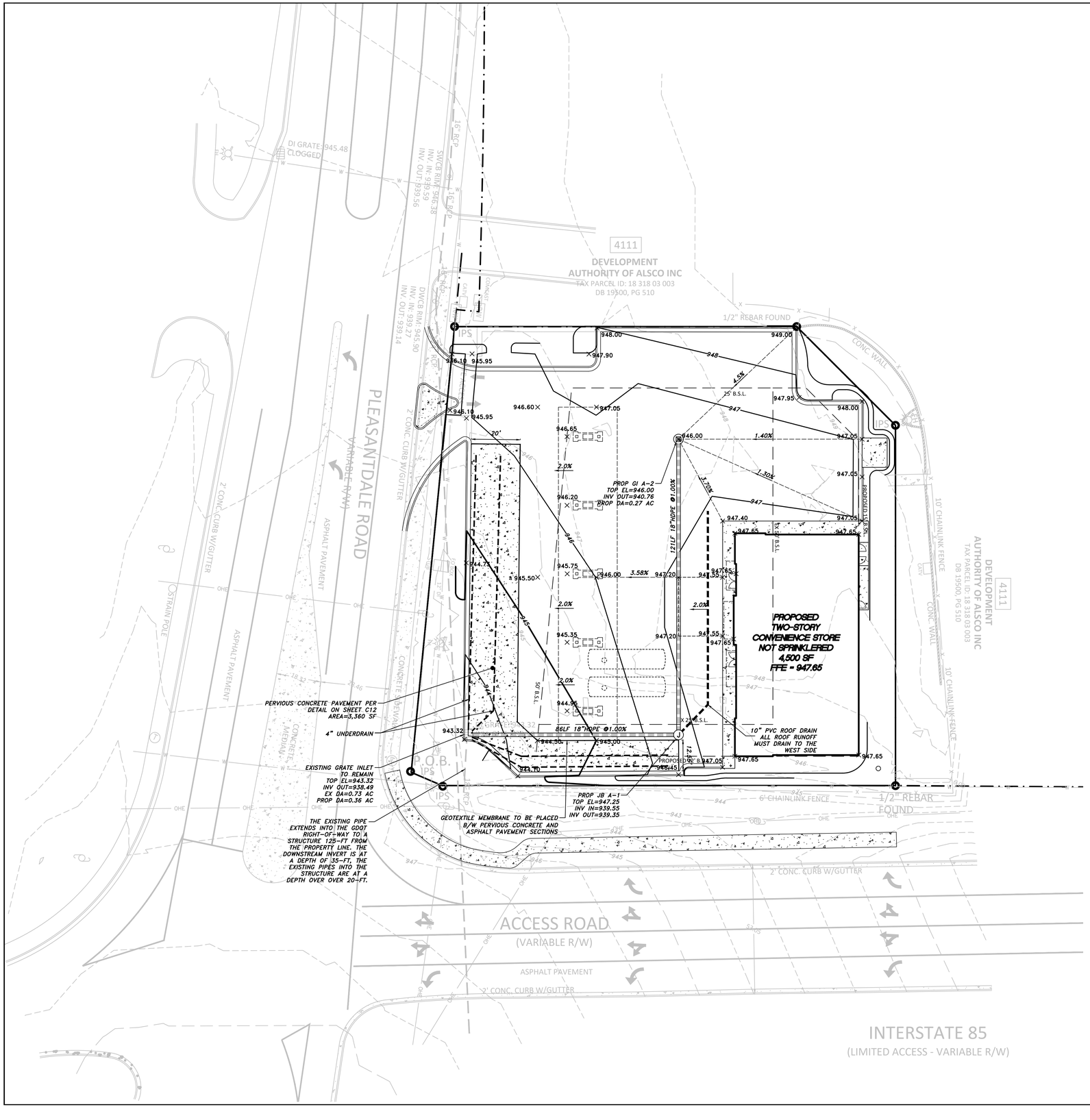
REVISIONS

DATE:	DESCRIPTION

SITE PLAN

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-04


PLEASANTDALE ROAD
(VARIABLE R/W)
ASPHALT PAVEMENT
2' CONC. CURB W/GUTTER
ACCESS ROAD
(VARIABLE R/W)
INTERSTATE 85
(LIMITED ACCESS - VARIABLE R/W)
4111
DEVELOPMENT AUTHORITY OF ALSCO INC
TAX PARCEL ID: 18 318 03 003
DB 19500, PG 510
PROPOSED TWO-STORY CONVENIENCE STORE NOT SPRINKLERED 4,500 SF FFE = 947.65
PROP GI A-2
TOP EL=946.00
INV OUT=940.76
PROP DA=0.27 AC
121LF 18"HDPE @1.00%
86LF 18"HDPE @1.00%
PROP JB A-1
TOP EL=947.25
INV IN=939.55
INV OUT=939.35
10" PVC ROOF DRAIN ALL ROOF RUNOFF MUST DRAIN TO THE WEST SIDE
PERVIOUS CONCRETE PAVEMENT PER DETAIL ON SHEET C12 AREA=3,360 SF
4" UNDERDRAIN
EXISTING GRATE INLET TO REMAIN
TOP EL=943.32
INV OUT=938.49
EX DA=0.73 AC
PROP DA=0.36 AC
THE EXISTING PIPE EXTENDS INTO THE GDOT RIGHT-OF-WAY TO A STRUCTURE 125-FT FROM THE PROPERTY LINE. THE DOWNSTREAM INVERT IS AT A DEPTH OF 35-FT, THE EXISTING PIPES INTO THE STRUCTURE ARE AT A DEPTH OVER OVER 20-FT.
GEOTEXTILE MEMBRANE TO BE PLACED B/W PERVIOUS CONCRETE AND ASPHALT PAVEMENT SECTIONS
P.O.B.
1/2" REBAR FOUND
6' CHAINLINK FENCE
10' CHAINLINK FENCE
CONC. WALL
DI GRATE 945.48 CLOGGED
STWB RIM 946.38
INV. IN: 939.59
INV. OUT: 939.56
DWCB RIM: 945.90
INV. IN: 939.27
INV. OUT: 939.14
OSTRAIN POLE
948.00
947.90
949.00
946.60
947.05
946.65
946.00
947.95
947.40
947.65
946.20
945.75
946.00
947.20
945.50
945.35
944.96
944.73
943.32
944.30
943.00
943.70
946.45
947.85
947.65
945.95
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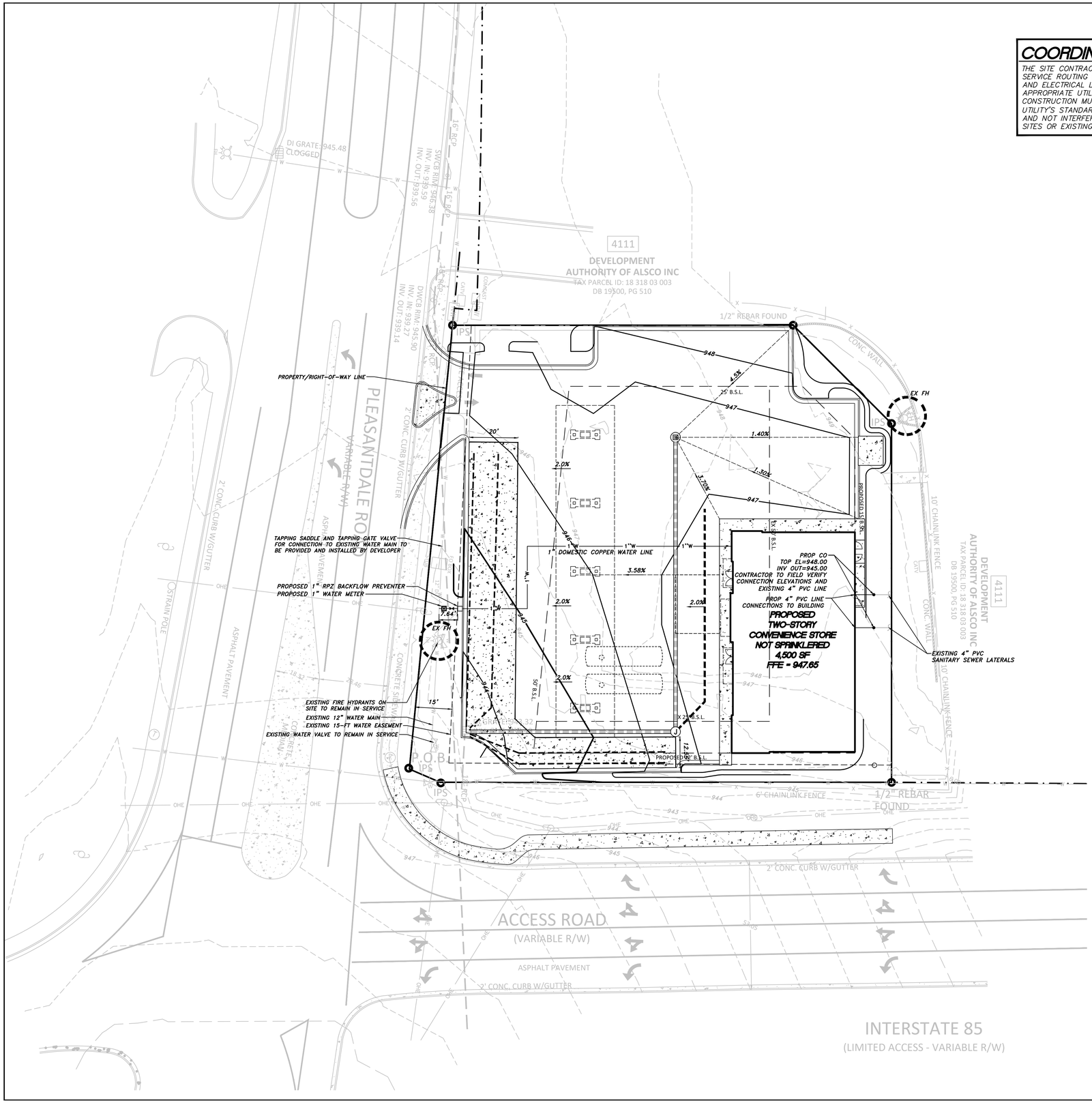
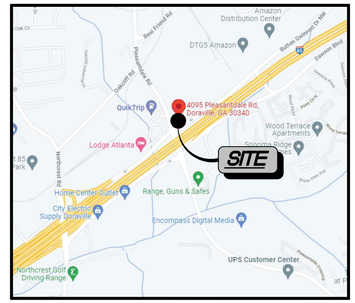


COORDINATION NOTE

THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE 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.

0 20' 30' 40'
SCALE: 1"=20'



VICINITY MAP
N.T.S.

UTILITY LEGEND

GAS	GAS SERVICE
SS	SANITARY SEWER
UGE&T	UNDERGROUND ELECTRIC & TELEPHONE SERVICE
W	WATER SERVICE
	SANITARY CLEANOUT
WM	WATER METER
	GATE VALVE

UTILITY NOTES

1. STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER AND SANITARY SEWER MAIN CONSTRUCTION.
2. THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL ELECTRICAL TRANSFORMER PADS FROM THE LOCAL POWER COMPANY AND PROVIDING SERVICE FROM THE TRANSFORMER TO THE BUILDING.
3. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS AND IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
4. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
5. SANITARY SEWER PIPE SHALL BE PVC SDR 35 ASTM 3034 FOR PIPES LESS THAN 12' DEEP. PVC PIPE SHALL BE BELL & SPICOT TYPE WITH INTEGRAL BELL AND RUBBER GASKETS. DUCTILE IRON CLASS 52 AWA C150, ANSI: A21.51 WITH PUSH ON OR MECHANICAL JOINTS MAY BE SUBSTITUTED FOR PVC PIPE.
6. SANITARY SEWER PIPE SHALL HAVE A MINIMUM DEPTH OF 6' FEET. PERCENTAGE OF GRADES LISTED FOR SANITARY SEWER LINES WERE CALCULATED FROM THE CENTERLINE OF ONE MANHOLE TO THE CENTERLINE OF THE NEXT MANHOLE.
7. SEWER SERVICE LATERALS SHALL BE COORDINATED WITH BUILDING PLANS, ANY DISCREPANCIES SHOULD BE CLARIFIED BEFORE INSTALLATION. SEWER SERVICE LATERALS ARE TO BE PERMANENTLY MARKED ON THE CURB.
8. ALL MANHOLES REQUIRE KOR-N-SEAL OR EQUAL RUBBER BOOTS.
9. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE, AND SHALL HAVE TRAFFIC BEARING LIDS. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS MUST MATCH FINISHED GRADE (UNLESS OTHERWISE NOTED). ALL EXISTING MANHOLES & UTILITY BOXES SHALL BE ADJUSTED AS NECESSARY TO MATCH PROPOSED GRADING.
10. ALL WATER PIPE 4" DIAMETER AND LARGER SHALL BE C900, CLASS 150 PVC WATER PIPE WITH 150 PSI PRESSURE RATING CONFORMING TO AWWA, AND UNIBELL PLASTIC PIPE STANDARD SPECIFICATIONS. FITTINGS 4" AND LARGER SHALL BE CAST IRON OR DUCTILE IRON CONFORM WITH WWA STANDARD SPECIFICATIONS.
11. ALL WATER PIPE 3" AND SMALLER SHALL BE TYPE K COPPER OR SDR 21 PER ANSI 16.22.
12. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6' OVER ALL WATER LINES.
13. CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER SERVICE WITH WATER DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PURCHASE AND/OR FEES ASSOCIATED WITH ALL APPARATUS INCLUDING: WATER METERS, BACK FLOW PREVENTERS, POST INDICATOR VALVES, AND ENCLOSURES.
14. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF WATER AND SEWER LINE IS (10') TEN FEET. THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINES IS (18") EIGHTEEN INCHES.
15. ALL FIRE HYDRANTS SHALL CONFORM TO LOCAL REQUIREMENTS.
16. ALL DOMESTIC WATER LEADS SHALL HAVE REDUCED PRESSURE VALVES AS DIRECTED BY THE OWNER'S ARCHITECT.
17. EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.
18. ALL ELECTRIC, TELEPHONE AND GAS LINES, INCLUDING SERVICE LINES, ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANIES SPECIFICATIONS.
19. CONTRACTOR TO COORDINATE INSTALLATION OF ALL UTILITIES BY OTHERS WITH HIS WORK.
20. PRIMARY ELECTRIC SERVICE IS PROVIDED BY THE POWER COMPANY. THIS INCLUDES THE TRANSFORMER AND PAD, TRENCHING, BACKFILL AND COMPACTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FEES ASSOCIATED WITH POWER SERVICE AS WELL AS SECONDARY SERVICE.
21. GAS LINES ARE INDICATED FOR COORDINATION ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FEES ASSOCIATED WITH GAS SERVICE.
22. GAS AND UNDERGROUND ELECTRIC LINES ARE SHOWN FOR COORDINATION ONLY. EXACT LOCATION WILL BE FIELD DETERMINED DURING CONSTRUCTION.
23. ALL SANITARY MANHOLES AND PIPE TO BE FLUSHED CLEAN OF DEBRIS PRIOR TO TURN OVER OF SYSTEM TO OWNER.
24. ALL EASEMENTS TO BE PLATTED BY THE CONTRACTOR (UNLESS OTHERWISE NOTED).
25. ANY UTILITIES NOT SHOWN THAT REQUIRE RELOCATION OR REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO REPORT ALL DISCREPANCIES TO THE ENGINEER IMMEDIATELY UPON DISCOVERY.

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:
M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED 031742 PROFESSIONAL ENGINEER JAREY P. MASSAH
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 585
ACWORTH, GA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS
ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

UTILITY PLAN

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-06

THE PROPERTY IS LOCATED ON FIRM PANEL 13089C0038K, DATED 8-15-2019 AND IS NOT LOCATED IN THE FLOODPLAIN

RECIEVING WATERS (11)

THIS PROJECT DISCHARGES TO AN STORM PIPE SYSTEM AND EVENTUALLY TO AND UNNAMED TRIBUTARY AND INTO NORTH FORK PEACHTREE CREEK

CONSTRUCTION SEQUENCE

PHASE 1

1. UPDATE LAND DISTURBANCE PERMIT, FILE N.O.I. (NOTICE OF INTENT) WITH THE E.P.D. (ENVIRONMENTAL PROTECTION DEPARTMENT) AND PAY THE APPLICABLE FEES TO THE STATE AND LOCAL ISSUING AUTHORITIES. A COPY OF THE SIGNED N.O.I. TO BE FILED MUST BE PROVIDED TO THE DEVELOPER AND THE C.E.C., AS WELL AS KEPT ON SITE AT ALL TIMES.
2. CALL FOR THE ON SITE PRE CONSTRUCTION MEETING OR S.W.P.P.P. (STORM WATER POLLUTION PROTECTION PLAN) PRE CONSTRUCTION MEETING. ATTENDEES SHALL INCLUDE CONTRACTORS, SUBCONTRACTORS, ENGINEERS, E.P.D., CITY / COUNTY OFFICIALS AND OR ANY OTHER PERSONNEL WHOM MAY INSPECT OR REVIEW THE STORM WATER MANAGEMENT ON THIS PROJECT. GOALS AND EXPECTATIONS SHALL BE REVIEWED IN DETAIL.
3. THE STABILIZED CONSTRUCTION EXIT / ENTRANCE SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY OCCURS. ANY REQUIRED TRAFFIC BARRIERS SHALL ALSO BE INSTALLED AT THIS TIME.
4. SILT FENCE AND OR ORANGE SAFETY / CONSTRUCTION FENCE INSTALLATION SHALL BE COMPLETED. NOTE: THE CONTRACTOR IS ALLOWED TO CLEAR PORTIONS NECESSARY FOR B.M.P. (BEST MANAGEMENT PRACTICES) INSTALLATION ONLY. THE CONTRACTOR IS TO ENSURE THERE ARE NO ADVERSE IMPACTS TO THE ON SITE STREAMS NOR WETLANDS.
5. THE PREPARATION OF THE TEMPORARY PARKING AND STORAGE AREA SHALL COMMENCE. INCLUDING BUT NOT LIMITED TO SITE TRAILER, PARKING AREA, LAY DOWN, PORTABLE TOILETS, WHEEL WASH, CONCRETE MIXER WASH OUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, SOIL STOCKPILE AREA ETC. THESE ITEMS ARE TO BE DENOTED ON THE SITE MAPS BY THE CONTRACTOR IMMEDIATELY AND SHALL BE REVISED WITH ANY CHANGES IN LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS
6. THE TEMPORARY SEDIMENT BASINS AND DIVERSION DITCHES WITH STONE CHECK DAMS AS DELINEATED ON THE PLANS SHALL BE INSTALLED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY WHAT IS REQUIRED FOR THE PROCEDURE.
7. CONTACT THE JURISDICTIONAL AUTHORITY TO DETERMINE IF A SECOND PRE CONSTRUCTION MEETING IS NEEDED. IF SO, THE GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORM WATER PRE CONSTRUCTION MEETING WITH THE ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
8. THE CONTRACTOR SHALL BEGIN CLEARING, GRUBBING AND GRADING THE AREAS OF THE SITE AS NEEDED TO MOVE TOWARD FINAL GRADE.
9. WITHIN 7 DAYS AFTER THE INITIAL CONSTRUCTION ACTIVITIES COMMENCE THE GENERAL CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER CONSULTANT TO REVIEW THE INSTALLATION AND EFFECTIVENESS OF THE B.M.P.'S.

PHASE 2

10. GRADE SITE AS BEST NEEDED FOR INSTALLATION OF ALL TEMPORARY UTILITIES AND EROSION CONTROL MEASURES.
11. AS EACH LIFT IN ELEVATION IS COMPLETED CARE SHALL BE TAKEN AS TO ENSURE THAT STABILIZATION AND EROSION PREVENTION HAS OCCURRED.
12. AS THE SITE IS BROUGHT UP TO SUB GRADE, THE STORM DRAINAGE SYSTEM IS TO BE CONSTRUCTED.
13. THE GENERAL CONTRACTOR SHALL CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM THE TEMPORARY SEDIMENT BASIN REVIEW AND SURVEY VERIFICATION. THE CONTRACTOR AND GEOTECHNICAL CONSULTANT ARE TO CERTIFY PLAN COMPLIANCE AT THE COMPLETION OF THE SITE MEASURES.
14. EXISTING BUILDING PAD AREA STABILIZATION SHALL OCCUR AS SOON AS POSSIBLE, THE CONTRACTOR SHALL NOTE THE DATE OF COMPLETION ON THE EROSION PLANS. CONTRACTOR MUST BE AWARE OF ANY GEOTECHNICAL REQUIREMENTS ASSOCIATED WITH FINAL COMPACTION OR FOUNDATION PREPARATION NOTE

PHASE 3

15. FINAL GRADING, PERMANENT SEEDING AND PLANTING SHALL BE COMPLETED.
16. THE CONTRACTOR SHALL REMOVE AND CLEAN ANY SEDIMENT FROM THE STORM WATER CONVEYANCE SYSTEM AS WELL AS THE DETENTION PONDS.
17. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEERING CONSULTANT WHEN SITE IS FULLY STABILIZED FOR INSPECTION
18. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES (BMP'S) SHALL BE REMOVED ONCE STABILIZATION AND C.E.C. APPROVAL HAS BEEN ACHIEVED. ANY AREAS DISRUPTED BY THIS REMOVAL SHALL BE STABILIZED.
19. DAILY INSPECTION REPORTS SHALL CONTINUE UNTIL THE DEVELOPER HAS AGREED THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.
20. THE CONTRACTOR SHALL FILE THE N.O.T. (NOTICE OF TERMINATION) WITH THE GEORGIA E.P.D. FOR THE SITE CONSTRUCTION ACTIVITY. A COPY OF THE SIGNED N.O.T. BEING FILED MUST BE PROVIDED TO THE DEVELOPER AND THE C.E.C AND LIA.

SEDIMENT STORAGE BMP's ARE TO REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ACHIEVED FOR ALL DISTURBED AREAS

811 NOTE:

THE CONTRACTOR/INSTALLER SHALL ADHERE TO THE GEORGIA UTILITIES PROTECTION CENTER "GEORGIA 811 CALL BEFORE YOU DIG" LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT 1.800.282.7411 OR 811 48 HOURS PRIOR TO BEGINNING ANY GROUND DISTURBING ACTIVITIES.

SAMPLING POINT (30)-(35) LOCATION DESCRIPTION

SAMPLING POINTS - MONITORING WILL NOT BE REQUIRED FOR THIS PROJECT

SAMPLING TEST PROCEDURE AND ANALYSIS:
GENERAL PERMIT REQUIREMENTS SHALL BE FOLLOWED IN THE STORMWATER SAMPLING AND THE RATIONALE OF THE NEPHELOMETRIC TURBIDITY UNIT (NTU) LIMITS FOR THE PROJECT. PER PAGE 19 UNDER PART IV, SECTION D, SUB-SECTION 5 FOR SAMPLING REQUIREMENTS OF THE GENERAL PERMIT, SAMPLING SHALL BE DONE FOR ALL SITES THAT DISTURB 1 ACRES OR MORE. NOTE THAT ALL SAMPLES MUST ADHERE TO THE STRICT GUIDELINES SET FORTH IN THE GENERAL PERMIT FOR SAMPLING REQUIREMENTS, SAMPLE TYPE AND METHODS, SAMPLING POINTS, AND SAMPLING FREQUENCY AS OUTLINED. SAMPLING SHALL BE DONE TO MONITOR THE NEPHELOMETRIC TURBIDITY OF RECEIVING WATERS AND/OR OUTFALLS. SAMPLES SHOULD BE TAKEN AT LOCATIONS AS PER THE DESIGN PLANS, BUT IN ALL CASES IN SUCH A MANNER AS TO ESTABLISH THE NTU LEVEL OF THE RECEIVING WATERS PRIOR AND AFTER THE CONVERGENCE OF DISCHARGE FLOWS FROM THE DISTURBED AREA WITH THE ABILITY TO ISOLATE THE NTU FLUCTUATION CAUSED BY THE DISCHARGE FLOWS FROM THE DISTURBED AREA. ALL SAMPLES SHALL BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE WATER FLOW LEAVING THE SITE. CARE SHALL BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER AND THE SAMPLING CONTAINER SHALL BE HELD SO THAT THE OPENING FACES UPSTREAM. THE SAMPLE SHALL ALSO BE KEPT FREE FROM FLOATING DEBRIS.

MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001." , ACCORDING TO ENVIRONMENTAL PROTECTION AGENCY (EPA) METHOD 180.1, OR APPROVED SIMILAR METHODS.

STORM WATER IS TO BE SAMPLED FOR NEPHETOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE THAT WAS SELECTED FROM APPENDIX B IN THE GEORGIA GENERAL PERMIT. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. THE NTU LIMIT IS BASED UPON THE DISTURBED ACREAGE OF THE PROJECT SITE AND THE SURFACE WATER DRAINAGE AREA DRAINING TO THE RECEIVING WATER AND WHETHER THE RECEIVING WATERS SUPPORT WARM WATER FISHERIES OR COLD WATER TROUT.

PETROLEUM SPILLS AND LEAKS:

SPILL CLEANUP AND CONTROL PRACTICES: (25) (26)

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPEMENT INCLUDES, BUT IDS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABLED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- HYDROSEEDING, MATTING, LANDSCAPE PLANTINGS AND PERMANENT GRASSING WILL BE INSTALLED DURING CONSTRUCTION TO PREVENT POLLUTANTS IN STORMWATER AFTER CONSTRUCTION. ANOTHER MEASURE WILL BE THE NEW STORMWATER MANAGEMENT SYSTEM THAT WILL REMOVE OVER 80% OF THE TSS FOR THE NEWLY DEVELOPED SITE

(26) THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURERS PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

POLLUTANTS IN STORMWATER DISCHARGE NOTES::

(27) (28)

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPEMENT. EQUIPEMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECOND CONTAINMENT LINER TO PREVENT/MINIMIZE SUTE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN A SEALED CONTAINER.

(27) BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN A PROPER WASTE DISPOSAL PROCEDURES. BUILDING MATERIALS TO BE COVERED WITH TARPS OR PLASTICS TO ENSURE THE MATERIALS ARE NOT DAMAGED OR WEATHERED. THE TARPS AND PLASTIC COVERS NEED TO BE SECURELY FIXED.

PRIMARY PERMITTEES LIST

THIS MASTER LIST MUST BE COMPLETED AND SIGNED AS SECONDARY PERMITTEES BECOME KNOWN. THE MASTER LIST MUST BE KEPT IN THE CONSTRUCTION TRAILER ON-SITE.

SECONDARY PERMITTEES MUST SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOTICE OF INTENT (N.O.I.) AT LEAST 14 DAYS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY UNDER THE GEORGIA GENERAL PERMIT.

(5)

NAME: DON LEONARD PHONE: 478-743-5097
COMPANY: STROUD AND COMPANY
FAX:
ADDRESS: PO BOX 4044
ADDRESS: MACON, GA 31208
EMAIL: DLEONARD@STROUDANDCOMPANY.COM
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

SECONDARY PERMITTEES LIST

THIS MASTER LIST MUST BE COMPLETED AND SIGNED AS SECONDARY PERMITTEES BECOME KNOWN. THE MASTER LIST MUST BE KEPT IN THE CONSTRUCTION TRAILER ON-SITE.

SECONDARY PERMITTEES MUST SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOTICE OF INTENT (N.O.I.) AT LEAST 14 DAYS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY UNDER THE GEORGIA GENERAL PERMIT.

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
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NAME: PHONE:
COMPANY: FAX:
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ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NAME: PHONE:
COMPANY: FAX:
ADDRESS:
ADDRESS:
GSWCC CERTIFICATION NO.: SIGNATURE:

NOTE TO CONTRACTOR FOR STORMWATER SAMPLING

CONTRACTOR TO PERFORM TESTS FOR BOTH THE (NTU) NEPHELOMETRIC TURBIDITY UNITS AND (TSS) TOTAL SUSPENDED SOLIDS PER THE NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT.

ADDITIONAL INSPECTION PER APPENDIX 1
A CERTIFIED PERSONNEL SHALL CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCHES OR GREATER WITHIN 24 HOURS PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.D OF THE NPDES PERMIT GAR 100001.

GA SEVEN-DAY INSPECTION

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

DATE OF INSPECTION:
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

DESIGN PROFESSIONAL'S NAME (PRINTED):
-

INSPECTOR'S GSWCC LEVEL II CERTIFICATION NUMBER:
-

INSPECTOR'S SIGNATURE:
-

NOTE: IF DISCREPANCIES ARE FOUND, THEY MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL THE DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED. THE DESIGN PROFESSIONAL SHALL NOT SIGN OFF ABOVE UNTIL THERE ARE NO DISCREPANCIES FOUND.

4-28-2022
JEFFREY P. MASISAK, PE, CPESC DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

(2) 4-28-2022
JEFFREY P. MASISAK, PE, CPESC DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024
JeffM@mass-eng.com

(1) 2022 EROSION CONTROL CHECKLIST ITEM

CONTRACTOR'S ANTICIPATED ACTIVITY SCHEDULE

	ACTIVITY	MO. 1	MO. 2	MO. 3	MO. 4	MO. 5	MO. 6	MO. 7	MO. 8	MO. 9
1	INSTALL SEDIMENT CONTROL DEVICES									
2	DEMOLITION, CLEARING AND GRADING									
3	STORM DRAIN INSTALLATION									
4	SANITARY SEWER INSTALLATION									
5	GRASS (TEMP.) (PERM.)									
6	UTILITY INSTALLATION									
7	MAINTAIN EROSION CONTROL									
8	BLDG. CONST. AND PAVING									
9	FINAL LANDSCAPING									
10	CLEAN UP									
11	SOLID WASTE DISPOSAL									

NOTE: EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED. THE SITE HAS BEEN CLEARED AND SITE CONSTRUCTION IS ESTIMATED TO COMMENCE DURING THE MONTH OF SEPTEMBER 2022.

(29) ENGINEER'S ANTICIPATED ACTIVITY SCHEDULE

	ACTIVITY	MO. 1	MO. 2	MO. 3	MO. 4	MO. 5	MO. 6	MO. 7	MO. 8	MO. 9
1	INSTALL SEDIMENT CONTROL DEVICES									
2	DEMOLITION, CLEARING AND GRADING									
3	STORM DRAIN INSTALLATION									
4	SANITARY SEWER INSTALLATION									
5	GRASS (TEMP.) (PERM.)									
6	UTILITY INSTALLATION									
7	MAINTAIN EROSION CONTROL									
8	BLDG. CONST. AND PAVING									
9	FINAL LANDSCAPING									
10	CLEAN UP									
11	SOLID WASTE DISPOSAL									

ENGINEER'S CERTIFICATION

(12) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

4-28-2022
JEFFREY MASISAK, PE, CPESC DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

4-28-2022
JEFFREY MASISAK, PE, CPESC DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

(13) 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 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 THIS 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 REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR1000001.

4-28-2022
JEFFREY MASISAK, PE, CPESC DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

EROSION, SEDIMENT AND POLLUTION CONTROL PLAN MEETS THE TMDL IMPLEMENTATION PLAN BY MEETING THE STATE GENERAL PERMIT

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

EROSION CONTROL NOTES

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-07

EROSION, SEDIMENT AND POLLUTION CONTROL PLAN MEETS THE TMDL IMPLEMENTATION PLAN BY MEETING THE STATE GENERAL PERMIT

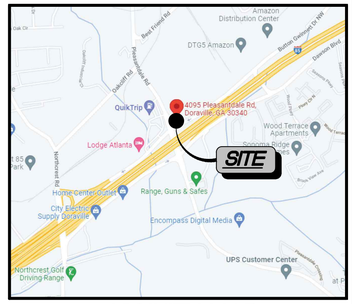
PRE DEVELOPED CN = 92
POST DEVELOPED CN = 91 (45)

SEE EROSION CONTROL NOTE SHEETS FOR ALL EROSION CONTROL NOTES AND SPECIFICATIONS

EROSION CONTROL 24-HR CONTACT: (4)
DON LEONARD 478-743-5097

(37)

0 20' 30' 40'
SCALE: 1"=20'



VICINITY MAP
N.T.S.

SOIL TYPES LEGEND

(47) Ud – URBAN LAND

(14) NOTE:
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

(15) NOTE:
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

(17) NOTE:
ANY AMENDMENTS/REVISIONS TO THE ES+PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

(18) NOTE:
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(19) NOTE:
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) NOTE:
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT'S SOURCE.

(21) NOTE:
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

NOTE:
THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT SITE AND THERE ARE NO BUFFER REQUIREMENTS ON THIS PROJECT SITE

NOTE:
THE TRACKING OF SOIL AND RAISING DUST SHALL BE CONTROLLED BY THE CONTRACTOR BY USE OF THE BMP'S SHOWN (Du, Co) AND ANY ADDITIONAL STABILIZATION METHODS ACCEPTED BY AND ADDRESSED BY THE GEORGIA EROSION AND SEDIMENT CONTROL 5TH EDITION.

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ROADWAY CAUSED BY HAULING OPERATIONS OUTSIDE OF PROJECT SITE.

NOTE:
THE (ES&PC) PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS.

NOTE:
THIS PROJECT IS APPLYING FOR N.O.I. UNDER GAR100001 (STAND ALONE DEVELOPMENT)

NOTE:
THERE ARE NO IMPAIRED STREAM SEGMENTS IMPACTED AS PART OF THIS PROJECT

REQUIRED SEDIMENT STORAGE FOR PHASE I = 6.7 CY

REQUIRED SEDIMENT STORAGE
ACRES DISTURBED FOR PHASE I = 0.10 ACRES
67 CY PER ACRE DRAINED
TOTAL STORAGE VOLUME = 0.10*67 = 6.70 CY

PROVIDED SEDIMENT STORAGE FOR PHASE I = 90.45 CY (49)

NOTE:
THIS STORAGE WILL BE PROVIDED WITH THE TYPE "C" SILT FENCE.

LENGTH = 540 LF
STORAGE = 0.1675 CY/LF
TOTAL STORAGE = 540LF * 0.1675 CY/LF = 90.45 CY

TOTAL PROPERTY AREA= 0.7932 AC
TOTAL DISTURBED AREA PHASE I = 0.10 AC (6)
TOTAL DISTURBED AREA PHASE II = 0.7932 AC (48)

(2) JEFFREY P. MASISAK, PE, CPESC — 4-28-2022
CSWCC LEVEL II CERTIFICATION NO. 0000001217 — DATE
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

(1) 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE

4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:
M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 031742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD, SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

EROSION CONTROL PLAN - PHASE I

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-08

EROSION, SEDIMENT AND POLLUTION CONTROL PLAN MEETS THE TMDL IMPLEMENTATION PLAN BY MEETING THE STATE GENERAL PERMIT

PRE DEVELOPED CN = 92
POST DEVELOPED CN = 91 (45)

SEE EROSION CONTROL NOTE SHEETS FOR ALL EROSION CONTROL NOTES AND SPECIFICATIONS

EROSION CONTROL 24-HR CONTACT: (4)
DON LEONARD 478-743-5097

(37)

0 20' 30' 40'
SCALE: 1"=20'

VICINITY MAP
N.T.S.

SOIL TYPES LEGEND

(47) Ud – URBAN LAND

(14) NOTE:
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

(15) NOTE:
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

(17) NOTE:
ANY AMENDMENTS/REVISIONS TO THE ES+PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

(18) NOTE:
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(19) NOTE:
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) NOTE:
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT'S SOURCE.

(21) NOTE:
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

NOTE:
THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT SITE AND THERE ARE NO BUFFER REQUIREMENTS ON THIS PROJECT SITE

NOTE:
THE TRACKING OF SOIL AND RAISING DUST SHALL BE CONTROLLED BY THE CONTRACTOR BY USE OF THE BMP'S SHOWN (Du, Co) AND ANY ADDITIONAL STABILIZATION METHODS ACCEPTED BY AND ADDRESSED BY THE GEORGIA EROSION AND SEDIMENT CONTROL 5TH EDITION.

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ROADWAY CAUSED BY HAULING OPERATIONS OUTSIDE OF PROJECT SITE.

NOTE:
THE (ES&PC) PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS.

NOTE:
THIS PROJECT IS APPLYING FOR N.O.I. UNDER GAR100001 (STAND ALONE DEVELOPMENT)

NOTE:
THERE ARE NO IMPAIRED STREAM SEGMENTS IMPACTED AS PART OF THIS PROJECT

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = 0.27 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac 0.27 ac
   Required sediment storage = 18.09 cy = 488.43 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
   SA_{ss} = Required sediment storage / excavation depth
   SA_{ss} = 18.09 cy / 2 ft
   SA_{ss} = 242 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 28 ft w = 14 ft diameter (*if applicable*) = _____ ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = 0.36 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac 0.36 ac
   Required sediment storage = 24.12 cy = 651.24 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
   SA_{ss} = Required sediment storage / excavation depth
   SA_{ss} = 21.12 cy / 2 ft
   SA_{ss} = 326 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 28 ft w = 14 ft diameter (*if applicable*) = _____ ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.

REQUIRED SEDIMENT STORAGE FOR PHASE I = 53.14 CY

REQUIRED SEDIMENT STORAGE
ACRES DISTURBED FOR PHASE I = 0.7932 ACRES
67 CY PER ACRE DRAINED
TOTAL STORAGE VOLUME = 0.7932*67 = 53.14 CY

PROVIDED SEDIMENT STORAGE FOR PHASE II = 58.07 CY (49)

NOTE:
THIS STORAGE FOR PHASE II WILL BE IN THE PIGS-IN-A-BLANKET SEDIMENT TRAP. THE INLET WILL BE RESET AND BLOCKS PLACED AROUND TO PROJECT THE NEW INLET FROM SEDIMENT DURING PHASE I. IN PHASE II THE PROPOSED INLETS WILL BE EXCAVATED AND STORAGE PROVIDED IN THOSE TWO AREAS.

TOTAL PROPERTY AREA= 0.7932 AC
TOTAL DISTURBED AREA PHASE I = 0.10 AC (6)
TOTAL DISTURBED AREA PHASE II = 0.7932 AC (48)

(2) JEFFREY P. MASISAK, PE, CPESC — 4-28-2022
CSWCC LEVEL II CERTIFICATION NO. 0000001217 — DATE
EXPIRES: 05/05/2024

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY P. MASISAK 34742

(1) 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE

4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:
M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY P. MASISAK 34742 — 6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

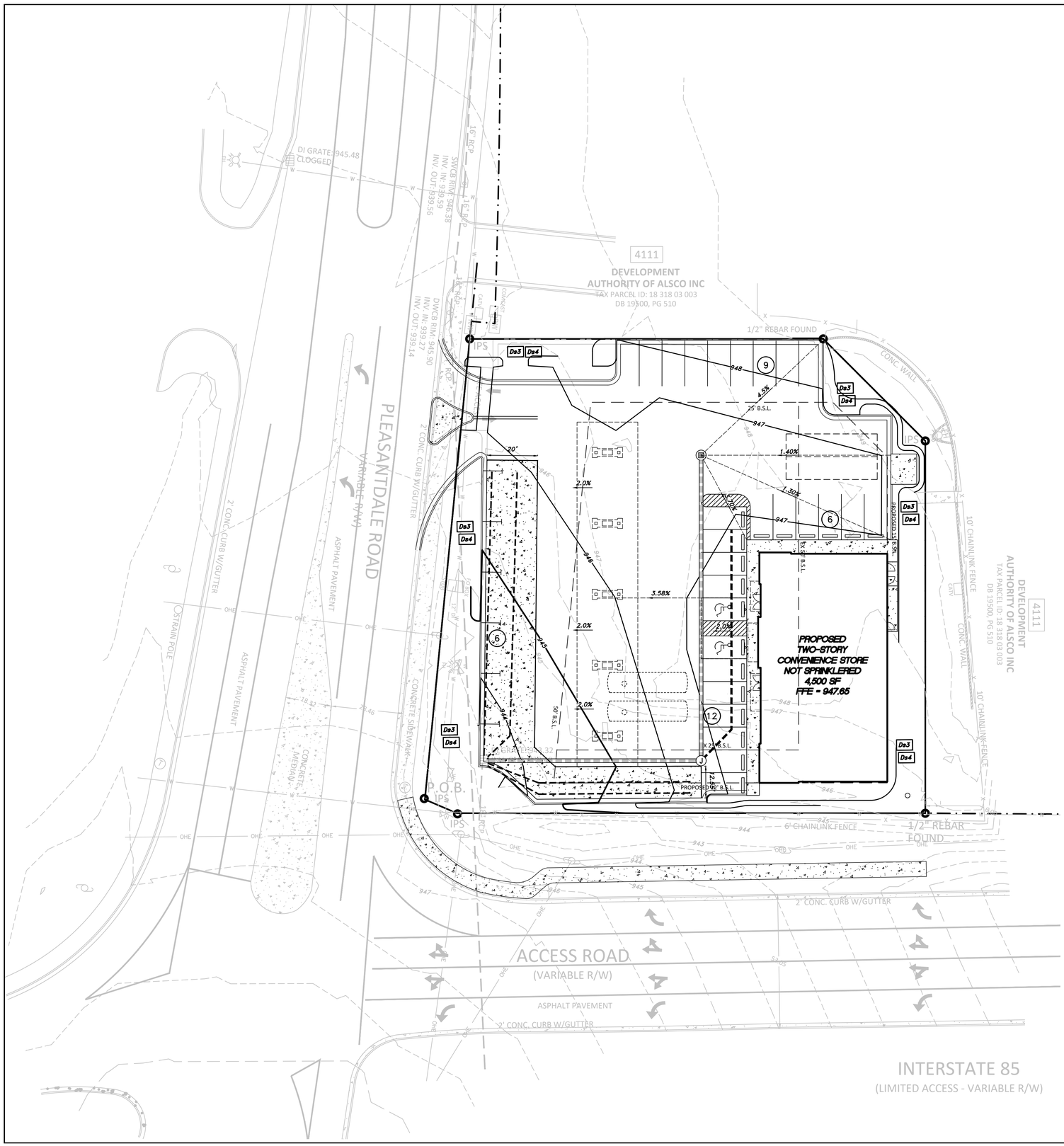
DATE:	DESCRIPTION

EROSION CONTROL PLAN - PHASE II

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

C-09



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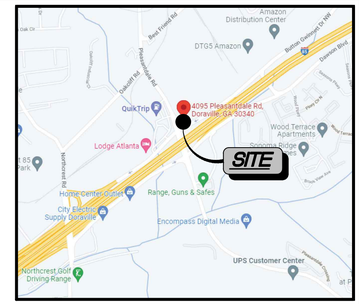
SCALE: 1"=20'



VICINITY MAP

N.T.S.

EROSION, SEDIMENT AND POLLUTION CONTROL PLAN MEETS THE TMDL IMPLEMENTATION PLAN BY MEETING THE STATE GENERAL PERMIT

SEE EROSION CONTROL NOTE SHEETS FOR ALL EROSION CONTROL NOTES AND SPECIFICATIONS

EROSION CONTROL 24-HR CONTACT:
4 DON LEONARD 478-743-5097

2 JEFFREY P. MASISAK, PE, CPESC
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024
4-28-2022
DATE

GEORGIA REGISTERED No. 041742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

1 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE

4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:

M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 041742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

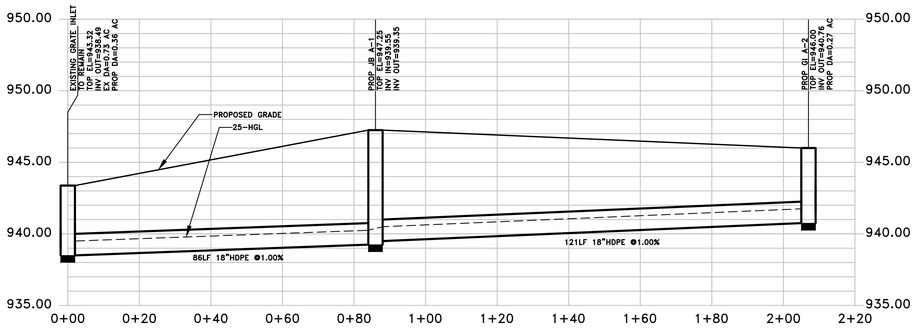
DATE:	DESCRIPTION

EROSION CONTROL PLAN - PHASE III

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

C-10



STORM PIPE PROFILE: EX INLET TO A-2

HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

PIPE NOTES:

ALL METAL PIPE SHALL BE FULLY COATED OR ALUMINIZED.

ANY STRUCTURE PLACED COMPLETELY WITHIN FILL MUST HAVE 98% STANDARD PROCTOR COMPACTION.

ALL HDPE PIPE SHALL INCLUDE BEDDING DETAILS PER THE MANUFACTURER ON THE PLANS; INCLUDE THE FOLLOWING NOTES ON THE PROFILE SHEETS FOR HDPE PIPE: HIGH-DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET AASHTO M-294 TYPE 'S' WITH AN ANNULAR EXTERIOR AND SMOOTH INTERIOR. PIPE SHALL CONSIST OF A BELL AND SPIGOT JOINT INCORPORATING AN F477 GASKET TO INSURE A LEAK-TIGHT PERFORMANCE HDPE PIPE SHALL BE BACK FILLED BY CONCURRENTLY APPLYING 8" LIFTS ON EACH SIDE OF THE PIPE USING TWO (2) TAMPS (ONE FOR EACH SIDE). BACKFILL SOIL SHALL CONFORM TO CLASS II, B2 OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION. ANY MANUFACTURER'S SPECIFICATIONS FOR HDPE PIPE EXCEEDING THIS REQUIREMENTS SHALL APPLY WHERE APPLICABLE.

HDPE PIPE MUST CONFORM WITH CURRENT GDOT STANDARDS (STANDARD THERMOPLASTIC PIPE 1030P). ASTM F2648 PIPE IS NOT AN ACCEPTABLE SUBSTITUTION.

JMReport

Page 1

Line No.	Line ID	Line Length (ft)	Line Size (in)	Line Slope (%)	Drng Area (ac)	Line Type	Invert Dn (ft)	Invert Up (ft)	n-val Pipe	HGL Dn (ft)	HGL Up (ft)	Tc (min)	Runoff Coeff (C)	Vel Ave (ft/s)	Flow Rate (cfs)	Capac Full (cfs)	i Inlet (in/hr)	Inlet ID
1	A1 to EX	86.000	18	1.00	0.36	Cir	938.49	939.35	0.024	939.27	940.53	6.8	0.85	3.66	4.20	5.69	8.44	
2	A2 to A1	121.000	18	1.00	0.27	Cir	939.55	940.76	0.024	940.65	941.34	5.0	0.85	2.24	1.94	5.69	8.44	

Project File: Pipes.stm | Number of lines: 2 | Date: 4/12/2022

NOTES: Intensity = 66.15 / (Inlet time + 12.20) ^ 0.72 -- Return period = 25 Yrs. ; ** Critical depth

Storm Sewers

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____

Project Name: Proposed C-Store
City/County: Doraville/DeKalb
Name & email of person filling out checklist:_____

Address: 4095 Pleasantdale Road
Date on Plans: 4-28-2022

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N	
C01	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)
C01	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	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.)
C01	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C01, C07	Y	5 Provide the name, address, email address, and phone number of primary permittee.
C01	Y	6 Note total and disturbed acreages of the project or phase under construction.
C01	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
	N	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C01	Y	9 Description of the nature of construction activity and existing site conditions.
E01	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C07	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.
C07	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.
C07	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. *
C08	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. *
C08	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
	N	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C08	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." *
C08	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." *
C08	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."
C08	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."
C08	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
	N	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C09, C18	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. *
C07	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
C07	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. *
C07	Y	27 Description of practices to provide cover for building materials and building products on site. *
C07	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C07	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).
C07, C19	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
C07, C19	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C07, C19	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C07, C19	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
C07, C19	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C07, C19	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
C08-C10	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. *
C08-C10	Y	37 Graphic scale and North arrow.
C08-C10	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 = 1008 or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10

	N	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaepd.georgia.gov.
	N	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. *
	N	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
	N	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
C09	Y	43 Delineation and acreage of contributing drainage basins on the project site.
	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
C09	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
	N	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C09	Y	47 Soil series for the project site and their delineation.
C08-C09	Y	48 The limits of disturbance for each phase of construction.
C07-C08	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.
C15-C18	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.
C15-C18	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.
C15-C18	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, 2022

GEORGIA811 www.Georgia811.com

811 NOTE:

THE CONTRACTOR/INSTALLER SHALL ADHERE TO THE GEORGIA UTILITIES PROTECTION CENTER "GEORGIA 811 CALL BEFORE YOU DIG" LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT 1.800.282.7411 OR 811 48 HOURS PRIOR TO BEGINNING ANY GROUND DISTURBING ACTIVITIES.

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 021742 JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

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3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

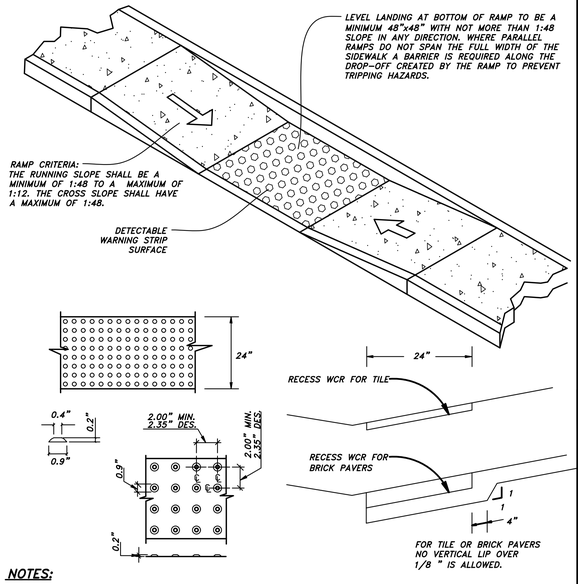
REVISIONS

DATE:	DESCRIPTION

PROFILES

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-11



NOTES:

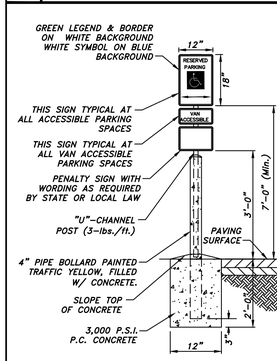
DETECTABLE WARNING STRIP SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED IN A SQUARE GRID PATTERN AND SHALL COMPLY WITH THE FOLLOWING:

1. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCHES (23mm) MINIMUM TO 1.4 INCHES (36mm) MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCHES (5mm).
2. TRUNCATED DOMES SHALL HAVE A CENTER-TO CENTER SPACING OF 1.6 INCHES (41mm) MINIMUM AND 2.4 INCHES (61mm) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCHES (16mm) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON SQUARE GRID.
3. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

PARALLEL CURB RAMP IN SIDEWALK

S3G

N.T.S.



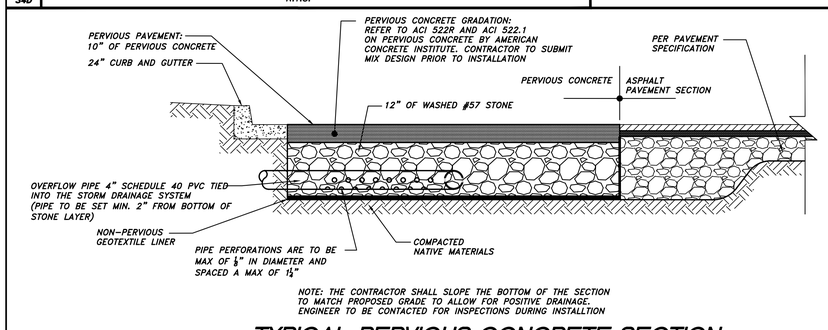
NOTE

CONCRETE BOLLARD AROUND POST IS NECESSARY WHERE SIGN IS TO BE WITHIN 2' OF TRAVEL LANE OR PARKING SPACE.

VAN ACCESSIBLE PARKING SIGN

S4D

N.T.S.



NOTE: THE CONTRACTOR SHALL SLOPE THE BOTTOM OF THE SECTION TO MATCH PROPOSED GRADE TO ALLOW FOR POSITIVE DRAINAGE. ENGINEER TO BE CONTACTED FOR INSPECTIONS DURING INSTALLTION

TYPICAL PERVIOUS CONCRETE SECTION

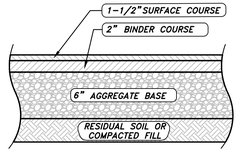
NOTES

1. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS. 25 FOOT MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS.
2. 3,000 P.S.I. CONCRETE WITH SMOOTH FINISH.
3. COMPACT SUBGRADE TO 98% STANDARD PROCTOR.
4. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

SITE - STANDARD 24" CONCRETE CURB AND GUTTER

S1D

N.T.S.

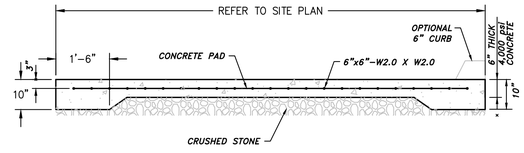


THE CONTRACTOR SHOULD CLARIFY ANY DISCREPANCY BETWEEN THE GEOTECHNICAL REPORT AND THIS DETAIL PRIOR TO BIDDING OR CONSTRUCTING.

STANDARD DUTY ASPHALT PAVING SPECIFICATION

S2A

N.T.S.



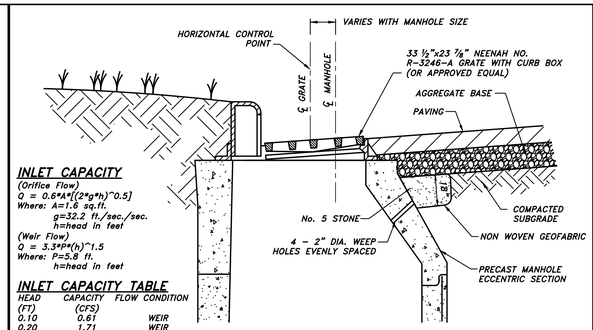
NOTE

1. SEE SITE WORK SPECIFICATIONS FOR CONCRETE MATERIAL AND FINISH. IF NOT SPECIFIED USE 4,000 PSI CONCRETE WITH A BROOM FINISH.
2. REFER TO GEOTECHNICAL RECOMMENDATIONS FOR THICKNESS OR FOR APPLICABILITY OF STONE BASE

DUMPSTER PAD DETAIL

S9A

N.T.S.



INLET CAPACITY

(Orifice Flow)
Q = 0.6*A*[(2*g*h)^0.5]
Where: A=1.6 sq.ft.
g=32.2 ft./sec./sec.
h=head in feet

(Weir Flow)
Q = 3.3*P*(h)^1.5
Where: P=5.8 ft.
h=head in feet

INLET CAPACITY TABLE

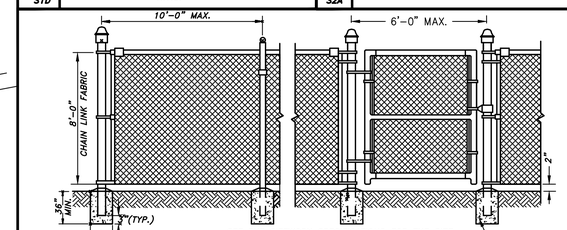
HEAD (FT)	CAPACITY (CFS)	FLOW CONDITION
0.10	0.61	WEIR
0.20	1.71	WEIR
0.30	3.15	WEIR
0.40	4.84	TRANSITION*
0.50	5.45	TRANSITION*

*Compared Weir and Orifice Capacity and used lower value.

HOODED CURB INLET WITH WEEP HOLES

G2W

N.T.S.



SEE THE SITEWORK SPECIFICATIONS FOR THE SIZE, TYPE, AND GAUGE OF MATERIALS THAT WILL BE USED FOR CONSTRUCTION OF A CHAIN LINK FENCE.

SLAT MATERIAL SPECIFICATIONS

1. SLATS MADE FROM HIGH DENSITY VIRGIN
2. POLYETHYLENE. SLAT LENGTH APPROXIMATELY 2" SHORTER THAN HEIGHT OF CHAINLINK FENCE.
3. TENSILE STRENGTH . . . . . 5,700 PSI
4. RESISTANCE TO HEAT . . . . . 250°F LOW
5. TEMPERATURE BRITTLENESS . . . . . -105°F
6. FLEXURAL STIFFNESS . . . . . 120,000 PSI
7. WIND LOAD FACTOR 95%

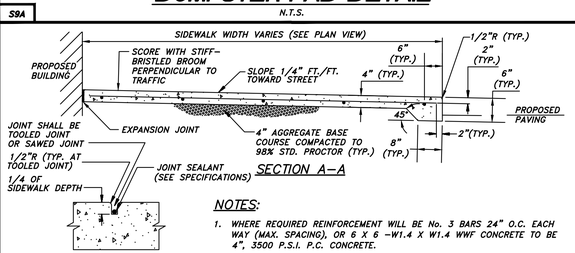
*SLAT SHALL BE TRI-SEAL INTERNATIONAL INC. OR APPROVED EQUAL.

SLAT DETAIL

CHAIN LINK FENCE W/GATE AND VERTICAL SLATS

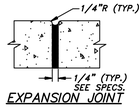
S3I

N.T.S.



SECTION A-A

CONTRACTION JOINT



EXPANSION JOINT

NOTES:

1. WHERE REQUIRED REINFORCEMENT WILL BE No. 3 BARS 24" O.C. EACH WAY (MAX. SPACING), OR 6 X 6 -W1.4 X W1.4 WWF CONCRETE TO BE 4", 3500 P.S.I. P.C. CONCRETE.
2. TOOLED CONTRACTION JOINT IN FRESH CONCRETE TO BE GROOVED JOINT 1/4 OF CONCRETE DEPTH MIN. WITH 1/2" MIN. RADIUS ON EXPOSED EDGES.
3. SAWED CONTRACTION JOINT TO BE 1/4 OF CONCRETE DEPTH MIN. AND FILLED WITH CONTINUOUS LENGTHS OF JOINT SEALANT AS SPECIFIED IN SECTION 02520-2.01 OF THE SPECIFICATIONS.
4. PATHFINDER DETECTABLE WARNING SURFACE AVAILABLE FROM CARSONITE INTERNATIONAL, CARSON CITY, NV (800) 648-7974 3' WIDE - DOT 12"x12"x1/4" OVERLAY, OR EQUAL.

CONCRETE SIDEWALK @ BUILDING

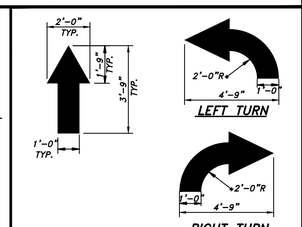
S3C

N.T.S.

PRE-CAST CONCRETE WHEELSTOP

S11C

N.T.S.



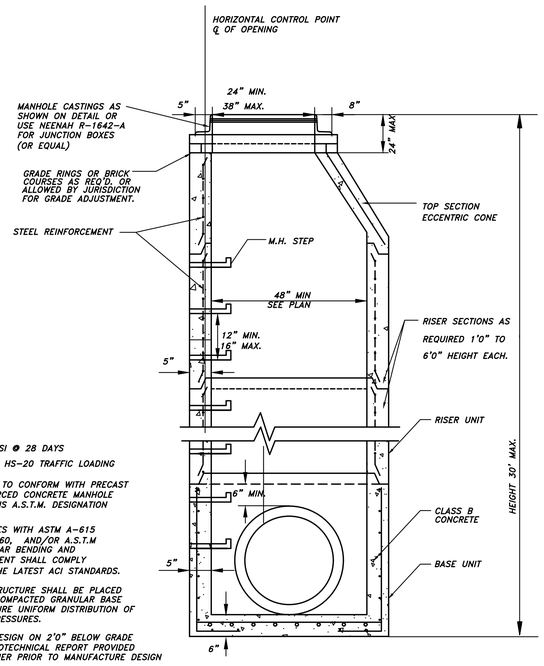
NOTE

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B-20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. ALL TRAFFIC FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT OR MEET LOCAL REQUIREMENTS.

PARKING LOT FLOW ARROW

S5I

N.T.S.



SPECIFICATIONS:

COMPRESSIVE:	4000 PSI @ 28 DAYS
LOADING:	AASHTO HS-20 TRAFFIC LOADING
STRUCTURE:	DESIGN TO CONFORM WITH PRECAST
GRADE:	REINFORCED CONCRETE MANHOLE SECTIONS A.S.T.M. DESIGNATION C478.
REINFORCEMENT:	COMPLIES WITH ASTM A-615 GRADE 60, AND/OR A.S.T.M A185 BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.
SITE PREPARATION:	THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES.
WATER TABLE:	BASE DESIGN ON 2'0" BELOW GRADE SEE GEOTECHNICAL REPORT PROVIDED BY OWNER PRIOR TO MANUFACTURE DESIGN

SQUARE MANHOLE FOOTER CHART (ANTI-FLOTATION)

	HT.	WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT
6' SQUARE	20'	9'	1.42'	5' SQUARE	7.5'	1.69'	4' SQUARE	6'	2.08'
	18'	9'	1.28'		7.5'	1.52'		6'	1.88'
	16'	9'	1.14'		7.5'	1.35'		6'	1.67'
	14'	9'	.99'		7.5'	1.18'		6'	1.46'
	12'	9'	.85'		7.5'	1.01'		6'	1.25'
	10'	9'	.71'		7.5'	.84'		6'	1.04'
	8'	9'	.57'		7.5'	.68'		6'	.83'
	6'	9'	.43'		7.5'	.34'		6'	.63'
	4'	9'	.28'		7.5'	.28'		6'	.42'
	2'	9'	.14'		7.5'	.17'		6'	.21'

CIRCULAR MANHOLE FOOTER CHART (ANTI-FLOTATION)

	HT.	WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT
6' RADIUS	20'	9'	2.72'	5' RADIUS	7.5'	3.20'	4' RADIUS	6'	3.89'
	18'	9'	2.44'		7.5'	2.88'		6'	3.50'
	16'	9'	2.17'		7.5'	2.56'		6'	3.11'
	14'	9'	1.90'		7.5'	2.24'		6'	2.72'
	12'	9'	1.63'		7.5'	1.92'		6'	2.33'
	10'	9'	1.36'		7.5'	1.60'		6'	1.94'
	8'	9'	1.09'		7.5'	1.28'		6'	1.56'
	6'	9'	.81'		7.5'	.96'		6'	1.17'
	4'	9'	.54'		7.5'	.64'		6'	.78'
	2'	9'	.27'		7.5'	.32'		6'	.39'

TYPICAL PRECAST STORM SEWER MANHOLE

G1A

N.T.S.

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:
M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 001742 PROFESSIONAL ENGINEER JEFFREY P. MASSAR 6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

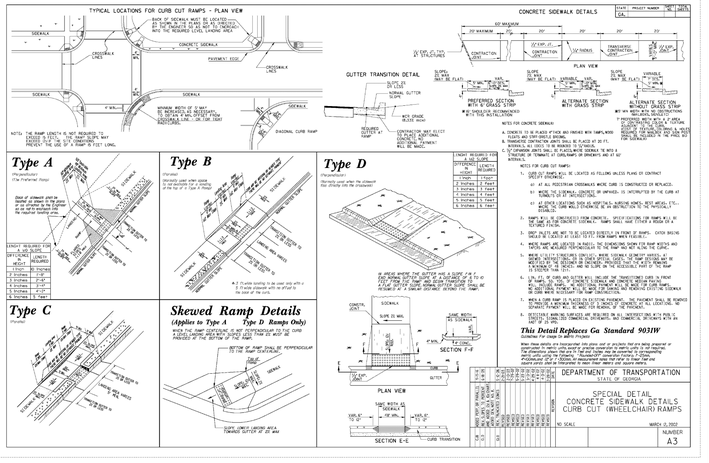
DATE:	DESCRIPTION

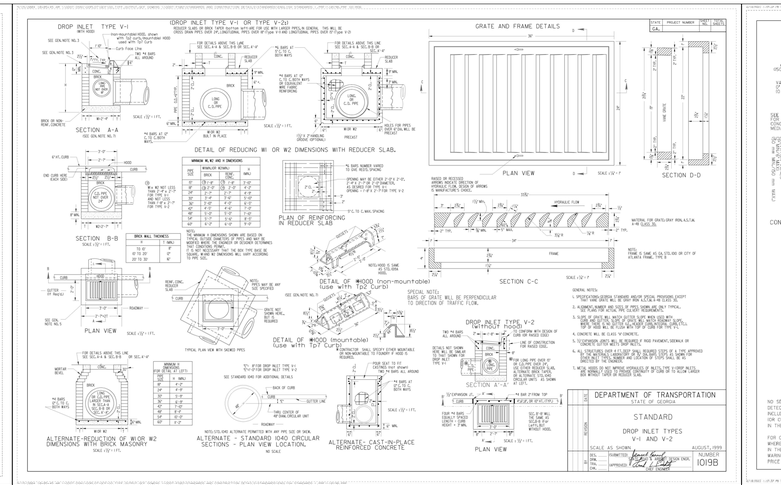
DETAILS

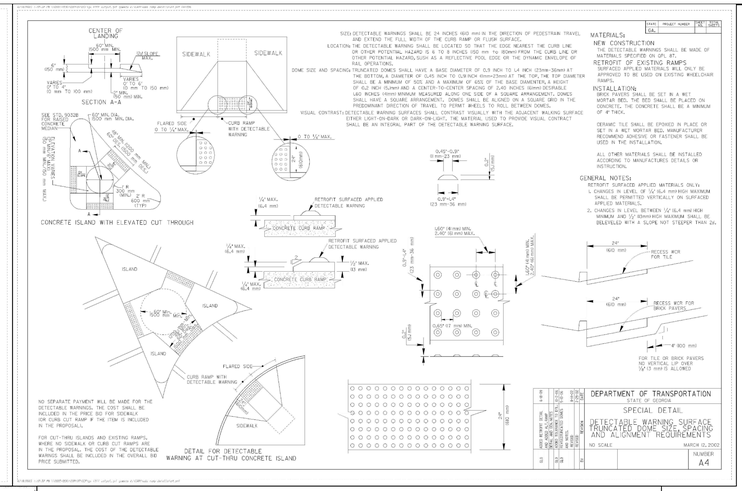
PROJECT NUMBER: 21-0038

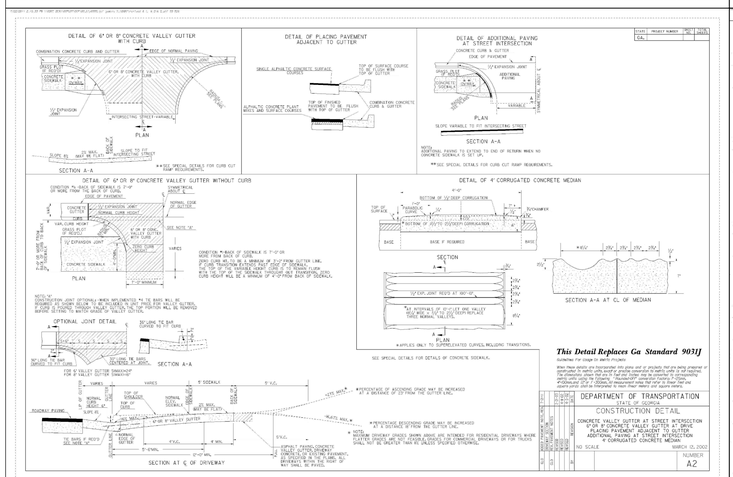
DATE: AUGUST 28, 2022

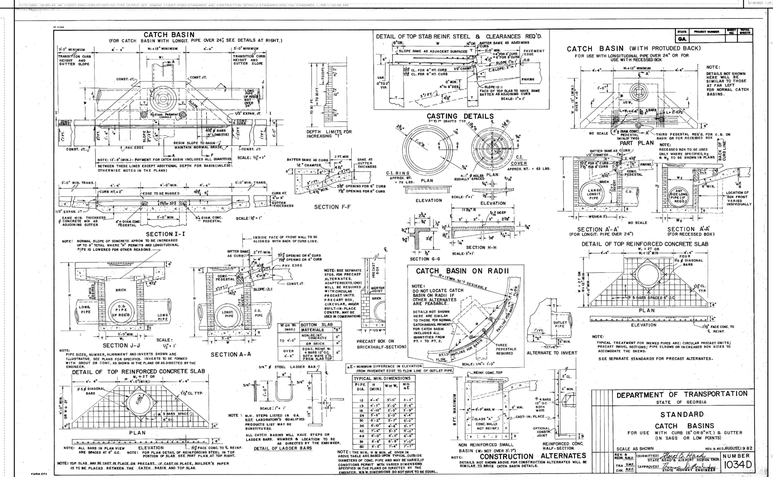
C-12

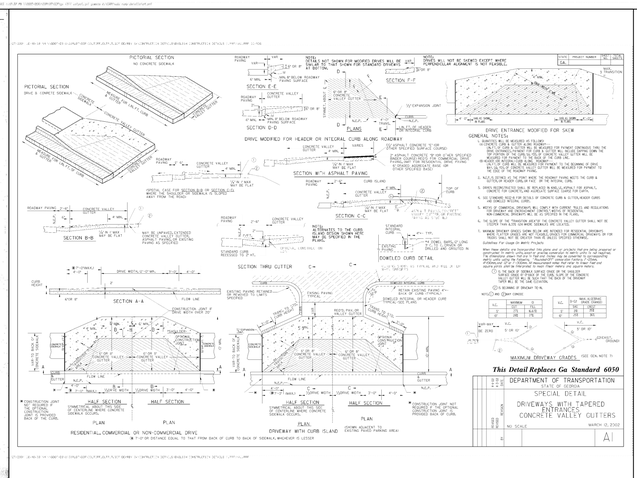


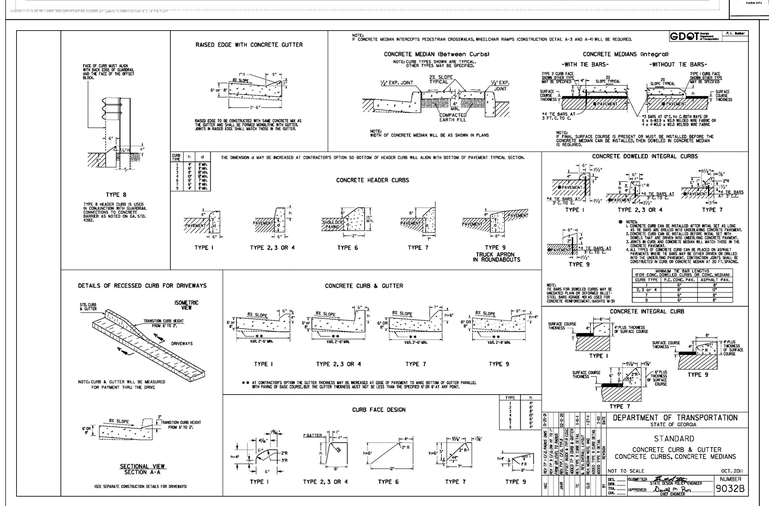


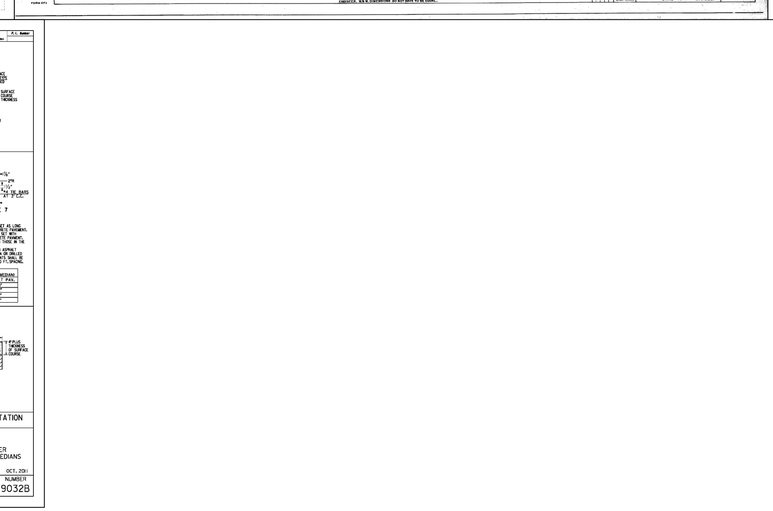












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REVISIONS

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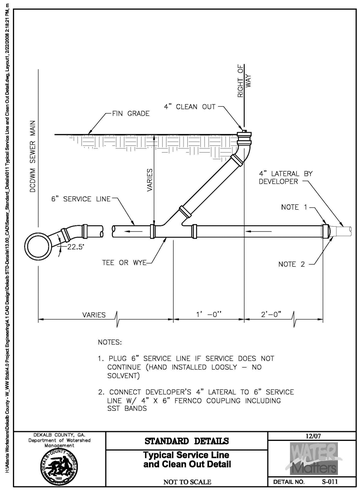
DETAILS

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

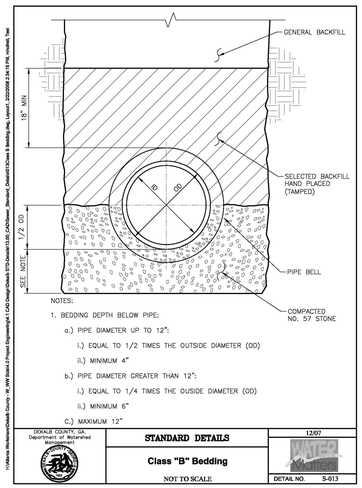
C-13



NOTES:

1. PLUG 6" SERVICE LINE IF SERVICE DOES NOT CONTINUE (HAND INSTALLED LOOSLY – NO SOLVENT)
2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS

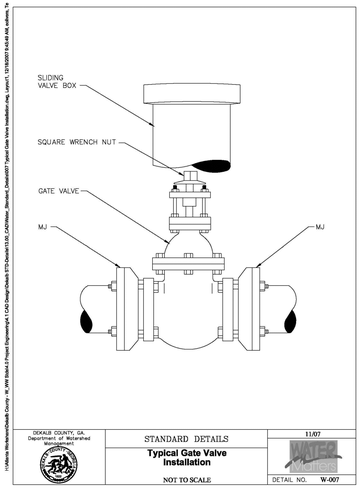
DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS Typical Sewer Line and Clean Out Detail NOT TO SCALE	12/07 WATER Matters DETAIL NO. S-011



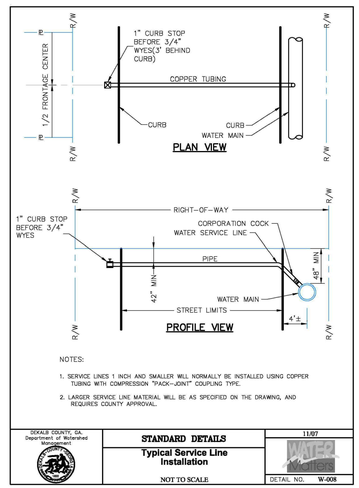
NOTES:

1. BEDDING DEPTH BELOW PIPE:
   a.) PIPE DIAMETER UP TO 12":
      i.) EQUAL TO 1/2 TIMES THE OUTSIDE DIAMETER (OD)
      ii.) MINIMUM 4"
   b.) PIPE DIAMETER GREATER THAN 12":
      i.) EQUAL TO 1/4 TIMES THE OUSIDE DIAMETER (OD)
      ii.) MINIMUM 6"
   c.) MAXIMUM 12"

DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS Class "B" Bedding NOT TO SCALE	12/07 WATER Matters DETAIL NO. S-013



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



NOTES:

1. SERVICE LINES 1 INCH AND SMALLER WILL NORMALLY BE INSTALLED USING COPPER TUBING WITH COMPRESSION "PACK-JOINT" COUPLING TYPE.
2. LARGER SERVICE LINE MATERIAL WILL BE AS SPECIFIED ON THE DRAWING, AND REQUIRES COUNTY APPROVAL.

DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS Typical Service Line Installation NOT TO SCALE	11/07 WATER Matters DETAIL NO. W-008

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: 3/4" THROUGH 2" METER SIZE: THROUGH 2"
REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) ASSEMBLY

SPECIFICATIONS: The CUSTOMER/OWNER shall furnish and install a REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) in a size to match that of the required service meter. The RPZ BFP assembly shall be installed in accordance with the manufacturer's instructions and all applicable codes and ordinances. The device shall have three ball valve test cocks in an acceptable position fitted with brass or plastic plugs. A fourth test cock shall be provided on the watershed side of the third shutoff valve. A strainer shall be provided immediately upstream of the RPZ, unless there is a strainer downstream of the meter. All components of the assembly shall be equivalent to those standard items manufactured and assembled with bolts that are resistant to electrolysis.

NOTE: All components of the assembly shall be certified by a nationally recognized testing laboratory. The DCV device shall have current approval from the University of Southern California, foundation for Cross-Connection Control and Hydraulic Research (USC-FCCHR). Assembly to be individually factory tested, shipped and installed as a unit.

INSTALLATION INSTRUCTIONS: The RPZ BFP assembly shall not be buried in earth but installed in a utility box with adequate drainage. The RPZ BFP assembly must be provided for testing and maintenance and may not be installed any higher than 6 feet from the finished grade to the highest point of the device. No connection will be allowed between the service meter and a BFP used for system containment unless this connection is protected by an approved BFP.

CAUTION: Section 607.3, Thermal Expansion Control, of the International Plumbing Code, 2006, as adopted by the Georgia State Plumbing Code (combined 2007 and 2008 Amendments) should be incorporated in the plumbing design and installation and duly noted on all applicable drawings prior to the installation of any inline checking device(s).

DEVICE TESTING: All RPZ assemblies shall be tested at time of installation and at least ANNUALLY thereafter. Cross-Connection Control Specialist, at 770-414-2254 for installation inspections and device tests.

APPROVED DEVICES: (or equivalent)
Ames 4000SS
Febco 825Y, 825Y-I
Hersey 7RPZ-I
Watts LF-009QT or LF-009-QT
Wilkins 975XLU

APPROVED INSTALLATION OF REDUCED-PRESSURE-PRINCIPAL DEVICE

1. ABOVE GROUND
2. IN BUILDING
3. IN BASEMENT

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

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: THROUGH 2" METER SIZE: THROUGH 2"
DOUBLE CHECK VALVE (DCV) ASSEMBLY

SPECIFICATIONS: The CUSTOMER/OWNER shall furnish and install a DOUBLE CHECK VALVE ASSEMBLY (DCV) in a size to match that of the required service meter. The DCV BFP assembly shall be installed in accordance with the manufacturer's instructions and all applicable codes and ordinances. The device shall have three ball valve test cocks in the vertical position fitted with brass or plastic plugs. A fourth test cock shall be provided on the watershed side of the third shutoff valve. All components of the assembly shall be equivalent to those standard items manufactured and assembled with bolts that are resistant to electrolysis. Access to both checking devices shall be by top or in-line side entry for maintenance and repair of all interior parts. Valve handles shall turn up to close and inbound (90 degrees) to open.

NOTE: All components of the assembly shall be certified by a nationally recognized testing laboratory. The DCV device shall have current approval from the University of Southern California, foundation for Cross-Connection Control and Hydraulic Research (USC-FCCHR). Assembly to be individually factory tested, shipped and installed as a unit.

INSTALLATION INSTRUCTIONS: The DCV BFP assembly shall not be buried in earth but installed in a utility box with adequate drainage. The DCV BFP assembly must be provided for testing and maintenance and may not be installed any higher than 6 feet from the finished grade to the highest point of the device. No connection will be allowed between the service meter and a BFP used for system containment unless this connection is protected by an approved BFP. At the discretion of these instructions you will find an excerpt from the Georgia State Plumbing Code on Thermal Expansion.

APPROVED UTILITY BOXES: (or equivalent)
Carson Industries Model No. 1324CFSPDWL
CDR Systems Corp. Model No. 8472C1324-18
Ford Meter Box Co. Model No. BCCI

DEVICE TESTING: All DCV assemblies shall be tested at time of installation and at least ANNUALLY thereafter. Contact Cross-Connection Control Specialist, at 770-414-2254 for installation inspections and device tests.

APPROVED DEVICES: (or equivalent)
Ames 2000SS 3/4", 1", 1 1/2", 2" (with unions)
Febco 825Y (3/4"-2") (with unions)
Hersey FDC- 3/4", 1", 1 1/2", 2" (with unions)
Watts LF-007-QT 3/4", 1", 1 1/2", 2"
Wilkens 950XL* - 3/4", 1", 1 1/2", 2"

TYPICAL UTILITY BOX INSTALLATION

*** SPECIAL CAUTION ***

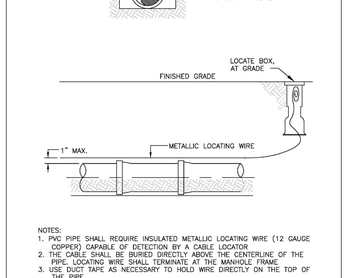
INTERNATIONAL PLUMBING CODE, 2006, ADOPTED BY GEORGIA STATE PLUMBING CODE (2007 AND 2008 AMENDMENTS)

Section 607.3 Thermal Expansion Control
A means of controlling increased pressure caused by thermal expansion shall be provided where required in accordance with Sections 607.3.1 and 607.3.2.

607.3.1 Pressure-reducing valve.
For water service system sizes up to and including 2 inches (51 mm), a device for controlling pressure shall be installed where, because of thermal expansion, the pressure on the downstream side of a pressure-reducing valve exceeds the pressure-reducing valve setting.

607.3.2 Backflow prevention device or check valve.
Where a backflow prevention device, check valve or other device is installed on a water supply system utilizing storage water heating equipment, such that thermal expansion causes an increase in pressure, a device for controlling pressure shall be installed.

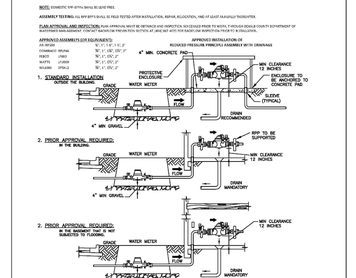
DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS DCV BFP installation 3/4 inch to 2 inch NOT TO SCALE	11/07 WATER Matters DETAIL NO. W-016



NOTES:

1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'–0" AS MEASURED FROM TOP OF PAVEMENT TO TOP OF PIPE.
3. NO ROCK, ONLY BEDDING MATERIAL IN BACKFILL FOR FIRST 2'–0" ABOVE TOP OF PIPE.
4. BEDDING AND BACKFILL TO BE CRUSHER RUN AT 95% COMPACTION UNDER ALL PAVING.
5. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 3" IN ITS LONGEST DIMENSION.

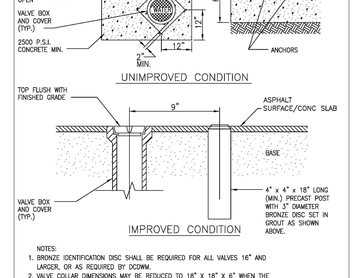
DeKalb County GEORGIA	STANDARD DETAILS Backfill and Allowable Trench Widths Detail NOT TO SCALE	03/17 WATER Matters DETAIL NO. W-019



NOTES:

1. PLUG 6" SERVICE LINE.
2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS

DeKalb County GEORGIA	STANDARD DETAILS Typical Service Line and Clean Out Detail NOT TO SCALE	09/17 WATER Matters DETAIL NO. S-012



NOTES:

1. BEDDING DEPTH BELOW PIPE:
   a.) PIPE DIAMETER UP TO 12":
      i.) EQUAL TO 1/2 TIMES THE OUTSIDE DIAMETER (OD)
      ii.) MINIMUM 4"
   b.) PIPE DIAMETER GREATER THAN 12":
      i.) EQUAL TO 1/4 TIMES THE OUSIDE DIAMETER (OD)
      ii.) MINIMUM 6"
   c.) MAXIMUM 12"

DeKalb County GEORGIA	STANDARD DETAILS Class "B" Bedding NOT TO SCALE	09/17 WATER Matters DETAIL NO. S-014

NOTES:

1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. SERVICE LATERAL SHALL BE CAPPED BY DEVELOPER'S CONTRACTOR.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY CUTTING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL.
5. DEVELOPER'S CONTRACTOR SHALL INSTALL CLEANOUT.

DeKalb County GEORGIA	STANDARD DETAILS SANITARY SEWER LATERAL CONNECTION NOT-TO-SCALE	09/17 WATER Matters DETAIL NO. S-017

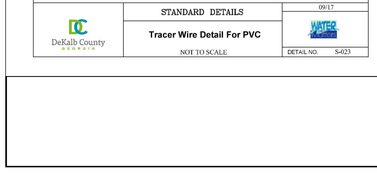
NOTES:

1. IDENTIFY AS PER OSHA SAFETY STANDARD SPECIFICATION 1910.44 UTILITY PROTECTION MARKING PAINT (GREEN)
2. MINIMUM LENGTH OF SERVICE STUB IS ONE FULL PIPE JOINT LENGTH OR TO THE RIGHT–OF–WAY. MAXIMUM LENGTH OF SERVICE STUB IS 75 FEET.
3. REFER TO S–012 FOR SERVICE AND CLEANOUT PROFILE

DeKalb County GEORGIA	STANDARD DETAILS Service Stub Location Detail NOT TO SCALE	09/17 WATER Matters DETAIL NO. S-018

DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DEKALB COUNTY FOR APPROVAL BEFORE ACQUISITION. IN AUTHORITIES GOVERNING JURISDICTION FOR APPROVAL BEFORE ACQUISITION OF MATERIALS. MANHOLE SHALL BE DESIGNED WITH ADEQUATE STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION.

DeKalb County GEORGIA	STANDARD DETAILS PRECAST CONCRETE FAT, OIL & GREASE INTERCEPTOR 1000, 1500 & 2000 GAL. CAPACITY Not To Scale	09/17 WATER Matters DETAIL NO. S-021



NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (12 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR
2. THE CABLE SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE. LOCATING WIRE SHALL TERMINATE AT THE MANHOLE FRAME.
3. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.

DeKalb County GEORGIA	STANDARD DETAILS Tracer Wire Detail For PVC NOT TO SCALE	09/17 WATER Matters DETAIL NO. S-023

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: ¾ INCH THRU 2 INCH METER SIZE: ¾ INCH THRU 2 INCH
REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPP)

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE PRINCIPAL BFP) BACKFLOW PREVENTER ASSEMBLY (BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE METER. THE BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDE WITH A VALVE, BETWEEN THE ASSEMBLY AND EACH VALVE. THE ASSEMBLY SHALL HAVE THREE BALL VALVE TEST CODES & AN ACCEPTABLE POSITION FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE WATERSHED SIDE OF THE 3RD SHUTOFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THE BFP, UNLESS THERE IS A STRAINER DOWNSTREAM OF THE METER.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE RPP BFP ASSEMBLY SHALL HAVE APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPP BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND, INSTALL ABOVE GROUND AS LOCO AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISE TO BE SERVICED FROM THE WATER METER. ALL INLET OR OUTLET PIPING UP TO 12" I.D. ABOVE GROUND ENCLOSURE MUST BE PROVIDED WITH PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP WHERE READY WATER DISCHARGE COULD CAUSE DAMAGE ESPECIALLY WHEN BACKFLOW ASSEMBLIES ARE LOCATED INSIDE THE BUILDING. FREE APPROVAL IS REQUIRED FOR BURIED INSTALLATION.

NOTE: LEAVER NO CREVICES WITHIN 203 MILL X 80 HOSE OR ANY INTERMEDIATE CONNECTION. BE ALLOWED BETWEEN THE WATER METER AND THE RPP BFP USED FOR SYSTEM PROTECTION UNLESS THAT CONNECTION IS INSPECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3, THERMAL EXPANSION CONTROL, NOTED IN THE 2006 INTERNATIONAL PLUMBING CODE, ADOPTED AS THE STATE OF GEORGIA PLUMBING CODE (2007 AND 2008 AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY INLINE CHECKING DEVICE(S).

NOTE: DOMESTIC RPP BFPAs SHALL BE LEAD FREE.

ASSEMBLY TESTING: ALL RPP BFP'S SHALL BE FIELD TESTED AFTER INSTALLATION, REPAIR, RELOCATIONS, AND AT LEAST ANNUALLY THEREAFTER.

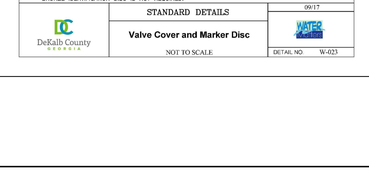
PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION ACCESSED FROM THE WATER, FIRE/SEWER BOWLS COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT BACKFLOW PREVENTION SECTION AT (404) 687-4370 FOR BACKFLOW INSPECTION PRIOR TO BACKFILLING.

APPROVED ASSEMBLIES (OR EQUIVALENT):
AMES 4000SS "ID, 1", 1 1/4", 1 1/2", 2"
CONBRACO 09-FAA "ID, 1", 1 1/4", 1 1/2", 2"
FEBCO 2A60 "ID", 1", 1 1/4", 1 1/2", 2"
WATTS LF009QT "ID", 1", 1 1/4", 1 1/2", 2"
WILKINS 975XLU "ID", 1", 1 1/4", 1 1/2", 2"

APPROVED INSTALLATION OF REDUCED-PRESSURE PRINCIPLE ASSEMBLY WITH DRAINAGE

1. STANDARD INSTALLATION ABOVE THE GRADE
2. PRIOR APPROVAL REQUIRED IN THE BUILDING
3. PRIOR APPROVAL REQUIRED IN THE BUILDING WITH BACK-UP TO FLOORING

DeKalb County GEORGIA	STANDARD DETAILS RPP BFP Installation 3/4" to 2" NOT TO SCALE	09/17 WATER Matters DETAIL NO. W-011



NOTES:

1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 16" AND LARGER, OR AS REQUIRED BY DCDWM.
2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18" X 18" X 6" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED.

DeKalb County GEORGIA	STANDARD DETAILS Valve Cover and Marker Disc NOT TO SCALE	09/17 WATER Matters DETAIL NO. W-023

PROPOSED CONVENIENCE STORE

4095 PLEASANTDALE ROAD DORAVILLE, GA 30340

PREPARED FOR:

M&A BUSINESS VENTURES, LLC

CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 031742 JEFFREY P. MASISAK 6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 565
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC
ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

DETAILS

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

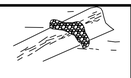
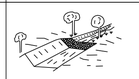
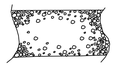
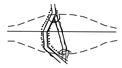
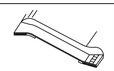
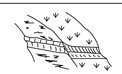
C-14

GEORGIA UNIFORM CODING SYSTEM

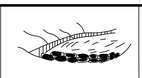
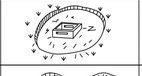
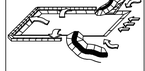
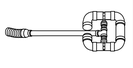
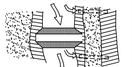
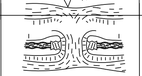
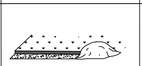
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

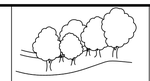
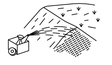
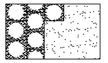
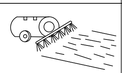
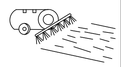
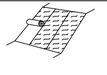
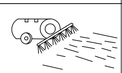
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

50 51 52 *2022 EROSION CONTROL CHECKLIST ITEM*

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.
	SOIL DELINEATION LINE			Represents approximate location of soil classification changes based on scanned in soils maps.
	SOIL TYPES SERIES	HgC2		Represents the soil classification as defined in soils maps, asd has not been coordinated with any geotechnical data.
	LIMITS OF DISTURBANCE LINE			Used to define limits of construction as well as areas disturbed as part of construction, including areas of potential earth or vegetative disturbance.
	FLOW ARROW (EXISTING)			Shows how existing drainage flows by providing approximate flow direction.

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
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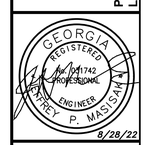
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT



STROUD AND COMPANY

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MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

DETAILS

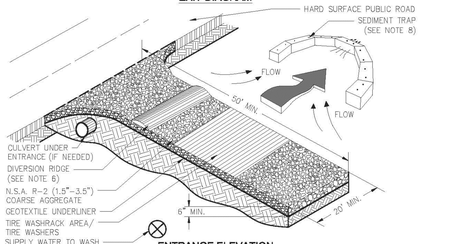
PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

C-15

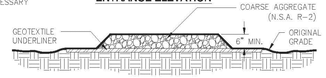
MAINTENANCE
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped,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

CRUSHED STONE CONSTRUCTION EXIT (Co)

EXIT DIAGRAM



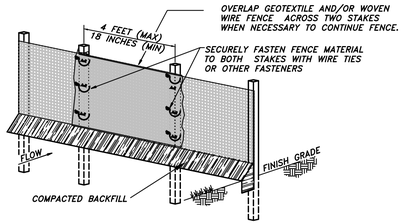
ENTRANCE ELEVATION

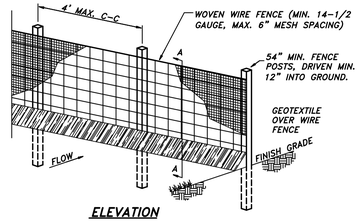


NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD 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.

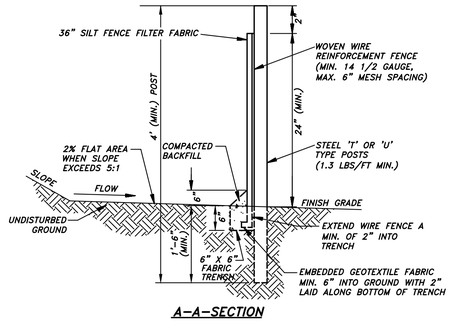
Figure 6-14.1

1/4 ACRE PER 100-LF MAX DRAINAGE AREA





ELEVATION



A-A-SECTION

MAXIMUM SLOPE LENGTH

- WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SILT FENCE, MAXIMUM SLOPE LENGTH SHALL NOT EXCEED:

LAND SLOPE	= MAX. SLOPE LENGTH
< 2%	= 100 FT.
2% - 5%	= 75 FT.
5% - 10%	= 50 FT.
10% - 20%	= 25 FT.
> 20%	= 15 FT.

- IN AREAS WHERE THE SLOPE IS GREATER THAN 20% OR 5:1, A FLAT AREA LENGTH OF 10 FT BETWEEN THE TOE OF THE SLOPE AND THE SILT FENCE MUST BE PROVIDED.

INSTALLATION

- DO NOT INSTALL ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.
- INSTALL WHERE SHEET FLOW CONDITION EXIST.
- START POST INSTALLATION AT THE CENTER OF THE LOWEST POINT WITH REMAINING POSTS SPACED 4 FEET APART.
- TYPE 'C' SILT FENCE SHALL BE USED WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH.
- TYPE 'C' SILT FENCE SHALL BE USED WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET.
- TWO ROWS OF TYPE 'C' SILT FENCE MUST BE USED ALONG ALL STREAM BUFFERS.
- WOVEN WIRE REINFORCEMENT FENCE TO BE FASTENED SECURELY TO STEEL POSTS WITH WIRE TIES OR APPROVED EQUAL AT TOP, MID AND BOTTOM.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCEMENT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.

MAINTENANCE

- 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 (APPROX. 6 MONTHS), OR ANY TEARS OR HOLES ARE IN THE FABRIC.
- 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.

SILT FENCE FILTER FABRIC

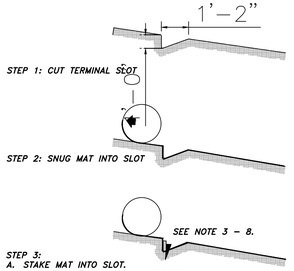
- UTILIZE DOT APPROVED FABRICS. COMMON EXAMPLES INCLUDE: MIRAFI 130X, AMOCO 1198, BELTECH 810, SI 915 SC, LING CTF 190
- UTILIZE FENCE FABRIC THAT MEETS THE FOLLOWING CRITERIA:
- TENSILE STRENGTH PER ASTM D-4632 WITH WARP-260 AND FILL-180 (LBS. MIN.)
- ELONGATION PER ASTM D-4632 OF 40% MAX
- APPARENT OPENING SIZE (MAX. SIEVE SIZE) PER ASTM D-4751 OF #30
- FLOW RATE OF 70 GAL/MIN/SQ.FT.
- ULTRAVIOLET STABILITY OF 80 PER ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355
- BURSTING STRENGTH OF 175 PSI MIN. PER ASTM D-3786

SEDIMENT BARRIER - TYPE 'C' SILT FENCE

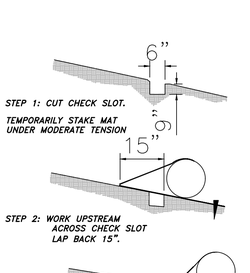
N.T.S.

Sd1-C

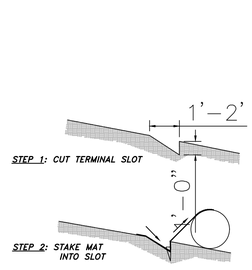
UPSTREAM TERMINAL

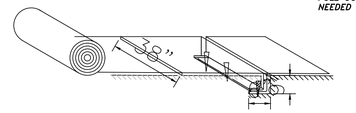


TRANSVERSE CHECK SLOT



DOWN STREAM TERMINAL

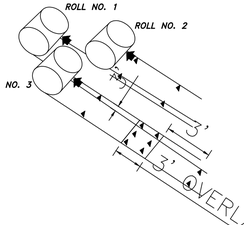




PICTORIAL VIEW OF TRANSVERSE SLOT

INSTALLATION

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH.
- ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH.
- BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL.
- SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
- BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
- ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- WHEN USING OPTIONAL DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT,
- PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP.
- STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



SEQUENTIAL ROLL OUT IN CHANNELS

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

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.

EROSION CONTROL MATTING AND BLANKETS

N.T.S.

Ss

GA-Mb

GA-Sd1C

SPECIFICATIONS:

MECHANICAL		
TENSILE STRENGTH AT YIELD	D638-89	3600 psi
ELONGATION AT BREAK	D638-89	> 600%
TENSILE IMPACT	D1822-89	170 ft. lb. / ^{2}in.
IMPACT BRITTLENESS TEMPERATURE	D746-79	< -105° F
ENVIRONMENTAL STRESS CRACK RESISTANCE	D1693-70	> 800 hrs.
HARDNESS, SHORE D	D2240-86	68
THERMAL		
VICAT SOFTENING TEMPERATURE	D1525-87	254° F
HEAT DEFLECTION TEMPERATURE, 66 psi LOAD	D648-82	157° F
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696-86	7 X 10^5 in/in/°F
PROCESSING		
BULK DENSITY	D1895-89	37 lb. / ^{3}ft.
FILTER, MAIN BODY		
WEIGHT	D-3776	3.0 oz y^2
TENSILE STRENGTH	D-4632	80 lb.
ELONGATION AT BREAK	D-4632	50%
MULLEN BURST	D-3786	150
PUNCTURE STRENGTH	D-4833	50
TRAPEZOIDAL TEAR	D-4533	30
AOS-US STD SLEEVE	D-4751	70
PERMITTIVITY	D-4491	2.0
U.V. RESISTANCE, %	D-4355 (500 HOURS)	70

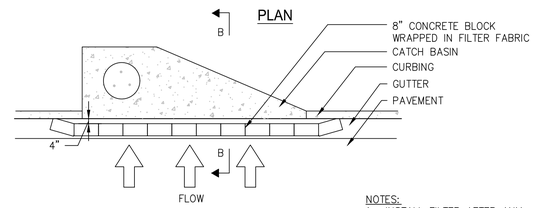
INLET SEDIMENT CAP

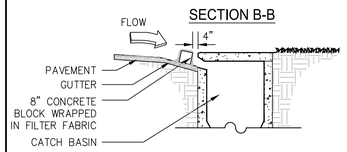
N.T.S.

Sd2

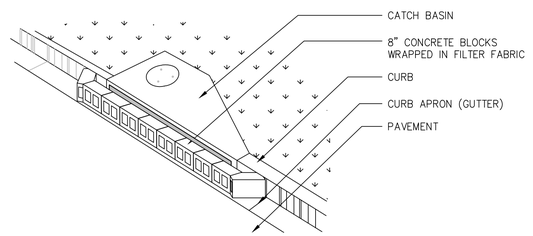
E11

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.



JEFFREY P. MASISAK, PE, CPESC — DATE 4-28-2022
CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL
GEWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 041742 JEFFREY P. MASISAK

50 51 52 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

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6/28/22

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MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

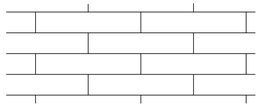
DETAILS

PROJECT NUMBER: 21-0038
DATE: AUGUST 28, 2022

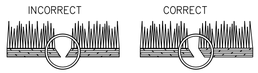
C-16

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



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



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

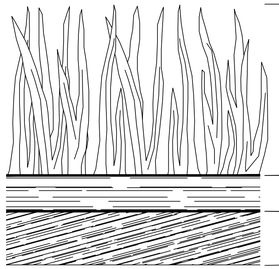
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



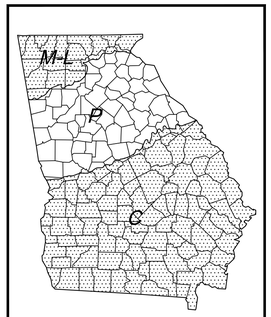
SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

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

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

INSTALLATION

- SOD CAN BE ESTABLISHED NEARLY YEAR-ROUND.
- SODDING IS PREFERABLE TO SEED IN WATERWAYS AND SWALES BECAUSE OF THE IMMEDIATE PROTECTION OF THE CHANNEL AFTER APPLICATION. SODDING MUST BE STAKED IN CONCENTRATED FLOW AREAS.
- LAY SOD ACROSS THE DIRECTION OF FLOW WHERE POSSIBLE, AND ESPECIALLY IN WATERWAYS AND SWALES.
- IN CRITICAL AREAS SECURE SOD WITH NETTING OR STAPLES.
- CONSIDER USING SOD FRAMED AROUND DROP INLETS TO REDUCE SEDIMENTS AND MAINTAINING THE GRADE.
- BRING SOIL SURFACE TO FINAL GRADE.
- CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1".
- PREPARE SOIL SURFACE AS FOR SEEDBED PREPERATION.
- TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE SOD TO GROW. DO NOT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.
- MIX FERTILIZER INTO SOIL SURFACE. UTILIZE FERTILIZER BASED ON SOIL TESTS, OR USE A 10-10-10 TYPE FERTILIZER AT A RATE OF 1000 POUNDS PER ACRE.
- AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.
- APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES OR GRAVEL TYPE SOILS.
- LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER.
- LAY SOD IN A STAGGERED PATTERN. DO NOT LEAVE SPACES, DO NOT STRETCH SOD, AND DO NOT OVERLAP.
- ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY AND BUTTED TOGETHER.
- A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.
- ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS.
- USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG.
- WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.
- INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL.
- IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION.
- SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER.LANTS.



RESOURCE AREA MAP

RESOURCE AREA INDEX

- M-L - REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRAs.
- P - REPRESENTS THE SOUTHERN PIEDMONT MLRA.
- C - REPRESENTS THE SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRAs.

TABLE 6-6.2. SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON	
BERMUDAGRASS	COMMON	M-L,P,C	WARM	WEATHER
	TIFWAY	P,C		
	TIFGREEN	P,C		
	TIFLAWN	P,C		
BAHIAGRASS	PENSACOLA	P,C	WARM WEATHER	
CENTIPEDE	-	P,C	WARM WEATHER	
ST. AUGUSTINE	COMMON	C	WARM WEATHER	
	BITTERBLUE			
	RALEIGH			
ZOYSIA	EMERALD	P,C	WARM WEATHER	
	MYER			
TALL FESCUE	KENTUCKY	M-L,P	COOL WEATHER	

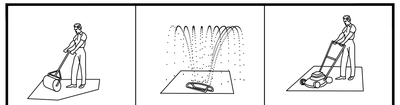
TABLE 6-6.3. FERTILIZER REQUIREMENTS FOR SOD

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	NITROGEN TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	-
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

APPEARANCE OF GOOD SOD

- SHOOTS OR GRASS BLADES - GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.
- THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK.
- ROOT ZONE - SOIL AND ROOTS SHOULD BE 1/2" - 3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

SODDING



ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL. STEP 1

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID. STEP 2

MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3"). STEP 3

MAINTENANCE

- ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4-6 YEARS OR AS INDICATED BY SOIL TEST.
- FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6.3.
- RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED.

DISTURBED AREA STABILIZATION (WITH SODDING)

Ds4

GA-Ds4

TEMPORARY GROUND COVER

TABLE 6-4.1 COMPANION CROPS

TYPE OF SPECIES	APPLICATION TYPE	APPLICATION RATES PER ACRE	APPLICATION RATES PER 1000 SQ.FT.	RESOURCE AREA	PLANTING DATES BY RESOURCE AREAS (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D	OPTIMUM PLANTING DATES	REMARKS
BARLEY (Hordeum Vulgare)	ALONE	144 lbs. (3 bu.)	3.3 lbs.	M-L		9/1 - 10/31	14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.
	IN MIXTURE	24 lbs. (⅓ bu.)	0.6 lbs.	P		9/15 - 11/15	
				C		10/1 - 12/31	
LEPEDEZA, ANNUAL (Lespedeza Striata)	ALONE	40 lbs.	0.9 lbs.	M-L		3/1 - 3/31	200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INCULCATE EL.
	IN MIXTURE	10 lbs.	0.2 lbs.	P		3/1 - 3/31	
				C		2/1 - 2/28	
LOVEGRASS, WEEPING (Eragrostis Curvula)	ALONE	4 lbs.	0.1 lbs.	M-L		4/1 - 5/31	1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
	IN MIXTURE	2 lbs.	0.05 lbs.	P		4/1 - 5/31	
				C		3/1 - 5/31	
MILLET BROWNTOP (Panicum fasciculatum)	ALONE	40 lbs.	0.9 lbs.	M-L		4/15 - 6/15	137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
	IN MIXTURE	10 lbs.	0.2 lbs.	P		4/15 - 6/30	
				C		4/15 - 6/30	
MILLET, PEARL (Pennesetum Glaucum)	ALONE	50 lbs.	1.1 lbs.	M-L		5/15 - 7/15	88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
				P		5/1 - 7/31	
				C		4/15 - 8/15	
OATS (Avena Sativa)	ALONE	128 lbs. (4 bu.)	2.9 lbs.	M-L		9/15 - 11/15	13,000 SEED PER POUND USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
	IN MIXTURE	32 lbs. (1 bu.)	0.7 lbs.	P		9/15 - 11/15	
				C		9/15 - 11/15	
RYE (Secale Cereale)	ALONE	168 lbs. (3 bu.)	3.9 lbs.	M-L		8/15 - 10/31	18,000 SEED PER POUND QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
	IN MIXTURE	28 lbs. (⅓ bu.)	0.6 lbs.	P		9/15 - 11/30	
				C		10/1 - 12/31	
RYEGRASS ANNUAL (Lolium Temulentum)	ALONE	40 lbs.	0.9 lbs.	M-L		8/15 - 11/15	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
				P		9/1 - 12/15	
				C		9/15 - 12/31	
SUDANGRASS (Sorghum Sudanese)	ALONE	60 lbs.	1.4 lbs.	M-L		5/1 - 7/31	55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
				P		5/1 - 7/31	
				C		4/1 - 7/31	
TRITICALE (X-Triticosecale)	ALONE	144 lbs. (3 bu.)	3.3 lbs.	C (ONLY)		10/15 - 11/30	USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
	IN MIXTURE	24 lbs. (⅓ bu.)	0.6 lbs.				
WHEAT (Triticum Aestivum)	ALONE	180 lbs. (3 bu.)	4.1 lbs.	M-L		9/15 - 11/30	15,000 SEED PER POUND. WINTERHARDY.
	IN MIXTURE	30 lbs. (⅓ bu.)	0.7 lbs.	P		10/1 - 12/15	
				C		10/15 - 12/31	

INSTALLATION

- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- TEMPORARY GRASSING IS NOT SUITABLE FOR USE ON AREAS THAT WILL BE EXPOSED FOR SIX MONTHS OR LONGER. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION IS REQUIRED.
- MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING.
- GRADE SITE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING TEMPORARY SEEDING.
- GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
- SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN.
- INSTALL OTHER NEEDED/REQUIRED EROSION CONTROL MEASURE BMPS PRIOR TO APPLYING SEED TO AREA.
- COORDINATE TEMPORARY VEGETATIVE MEASURES WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION.
- SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED PERMANENT SPECIES (E.G. ANNUAL RYEGRASS). CONTACT NRCS OR THE LOCAL SWCD FOR MORE INFORMATION.
- UNDER-SEEDING REDUCES THE STAND, WHILE OVER-SEEDING CREATES EXCESSIVE DEMAND FOR MOISTURE, NUTRIENTS, LIGHT, AND SPACE. BOTH PRACTICES WILL RESULT IN LESS THAN 90% COVERAGE AS REQUIRED.
- IT IS IMPERATIVE THAT YOU CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE, PURE SEED AND GERMINATION PERCENT OF THE SEED TO BE PLANTED. CALCULATE PURE LIVE SEED (PLS) TO COMPENSATE FOR PERCENT OF BAG THAT WILL NOT PRODUCE GRASS IN THE APPLICATION RATES. APPLICATION RATES DO NOT REFLECT ANY INCREASE FOR PLS REDUCTION.
- REDUCE SEEDING RATES BY 50% WHEN DRILLED.
- TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY.

MAINTENANCE

- RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- ENSURE MINIMUM OF 90% COVERAGE OF ALL EXPOSED EARTH.

GRADING AND SHAPING

- EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.
- NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

- WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.
- WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
- WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

- AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE.
- APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE.
- GRADED AREAS REQUIRE LIME APPLICATION.
- SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED.
- ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED.
- FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED.
- FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH DISK, RIPPER OR CHISEL.

SEEDING

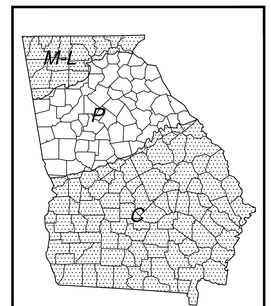
- SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
- SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER).
- DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP.
- APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER.
- SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

MULCHING

- TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. BUT IT IS RECOMMENDED TO UTILIZE MULCH ON TOP OF TEMPORARY VEGETATION WHENEVER POSSIBLE.
- MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION ONLY.

IRRIGATION

- DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.
- THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.



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DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

N.T.S.

Ds2

GA-Ds2

METHOD AND MATERIALS

TEMPORARY METHODS

- MULCHES - COVER DISTURBED AREA WITH MULCHING ONLY.
- SYNTHETIC RESINS - USED TO BIND MULCH MATERIAL, SUCH AS ASPHALT EMULSIONS.
- TACKIFIERS AND BINDERS - RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- VEGETATIVE COVER - COVER DISTURBED AREA WITH TEMPORARY SEEDING.
- SPRAY-ON ADHESIVES - USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. APPLY PER RATE REQUIREMENTS.
- TILLAGE - THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS - SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- CALCIUM CHLORIDE - APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

- PERMANENT VEGETATION - COVER DISTURBED AREA 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.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL, SUCH AS A CONSTRUCTION ROAD.

INSTALLATION

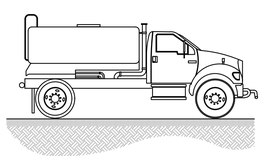
- APPLY AS NEEDED ON ALL SITES.
- PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
- REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.
- APPLY TEMPORARY OR PERMANENT CONTROL MEASURES AS NEEDED.

SPRAY-ON ADHESIVE APPLICATION

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

MAINTENANCE

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.
- RE-APPLY AS NEEDED.



DUST CONTROL ON DISTURBED AREA

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GA-Du

4-28-2022

JEFFREY P. MASISAK, PE, CPESC — DATE
GSWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

GEORGIA REGISTERED No. 31742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK

50 51 52 2022 EROSION CONTROL CHECKLIST ITEM

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
M&A BUSINESS VENTURES, LLC
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT

GEORGIA REGISTERED No. 31742 PROFESSIONAL ENGINEER JEFFREY P. MASISAK
6/28/22

STROUD AND COMPANY

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD, SUITE 565
ACWORTH, GEORGIA 30101
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WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION

DETAILS

PROJECT NUMBER: 21-0038

DATE: AUGUST 28, 2022

C-17

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

TABLE 6-5.3

GROUND COVERS INCLUDE A WIDE RANGE OF LOW-GROWING PLANTS PLANTED TOGETHER IN CONSIDERABLE NUMBERS TO COVER LARGE AREAS OF THE LANDSCAPE. GROUND COVERS GROW SLOWER THAN GRASSES. WEEDS ARE LIKELY TO COMPETE, ESPECIALLY THE FIRST YEAR. MAINTENANCE IS NEEDED TO INSURE SURVIVAL. THESE GROUND COVERS WILL NOT BE USED UNLESS PROPER MAINTENANCE IS PLANNED. MAINTAIN MULCH AT THREE-INCH THICKNESS UNTIL PLANTS PROVIDE ADEQUATE COVER.

FALL PLANTING IS ENCOURAGED BECAUSE THE NEED FOR CONSTANT WATERING IS REDUCED AND PLANTS HAVE TIME TO ESTABLISH NEW ROOTS BEFORE HOT WEATHER.

COMMON NAME	SCIENTIFIC NAME	MATURE HEIGHT	PLANT SPACING	COMMENTS
ALBELIA	ABELIA GRANDIFLORA	3-4 FT.	5 FT.	ALSO A PROSTRATE FORM 2 FEET HIGH. SUN, SEMI-SHADE. SEMI-EVERGREEN
CAROLINA YELLOW JESSAMINE	GELSEMIUM SEMPERVIRENS	LOW	3 FT.	VINE. YELLOW, TRUMPET-LIKE FLOWERS, HARDY, ONE OF BEST VINES. EVERGREEN. NATIVE TO GEORGIA.
CARPET BLUE	AJUGA REPTANS	2-4 IN.	3 FT.	NEEDS GOOD DRAINAGE, PARTIAL SHADE. BLUE OR WHITE FLOWERS. EVERGREEN
BEARBERRY COTONEASTER	COTONEASTER DAMMERI	2-4 FT.	3 FT.	WHITE FLOWERS, RED FRUIT. SUN. EVERGREEN
GROUND COVER COTONEASTER	COTONEASTER SALICIFOLIUS 'REPENS'	1-2 FT.	3 FT.	WHITE FLOWERS, RED FRUIT. SUN. EVERGREEN
ROCK COTONEASTER	COTONEASTER HORIZONTALIS	1-2 FT.	3 FT.	SEMI-EVERGREEN. SUN.
VIRGINIA CREEPER	PARTHENOCISSUS QUINQUIFOLIA	LOW	3 FT.	RED IN FALL. VINE DECIDUOUS. NATIVE TO GEORGIA
DAYLILY	HEMEROCALLIS SPP.	2-3 FT.	3 FT.	MANY FLOWER COLORS. FULL SUN. VERY HARDY.
ENGLISH IVY	HEDERA HELIX	LOW	5 FT.	SHADE ONLY. CLIMBS
COMPACTA HOLLY	ILEX CRENATA 'COMPACTA'	3-4 FT.	5 FT.	SUN, SEMI-SHADE
CHINESE HOLLY	ILEX CORNUTA 'ROTUNDA'	3-4 FT.	5 FT.	VERY DURABLE. SUN, SEMI-SHADE
DWARF BURFORD HOLLY	ILEX BURFORDII 'NANA'	5-8 FT.	8 FT.	
DWARF YAUPON HOLLY	ILEX VOMITORIA 'NANA'	3-4 FT.	5 FT.	VERY DURABLE. SUN, SEMI-SHADE
REPANDENS HOLLY	ILEX CRENATA 'REPANDENS	2-3 FT.	5 FT.	SUN, SEMI-SHADE
ANDORRA JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA'	2-3 FT.	5 FT.	EXCELLENT FOR SLOPES. SUN.
ANDORRA COMPACTA JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA COMPACTA'	1-2 FT.	5 FT.	MORE COMPACT THAN ANDORRA.
BLUE CHIP JUNIPER	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	8-10 FT.	4 FT.	
BLUE RUG JUNIPER	JUNIPERUS HORIZONTALIS 'WILTONII'	4-6 FT.	3 FT.	VERY LOW. SUN.
JAPONICA JUNIPER	JUNIPERUS JAVANICA 'EXPANSA' (SOLIANATA PARSONI)	18-24 FT.	5 FT.	ONE OF THE BEST GOOD WINTER COVER
PFITZER JUNIPER	JUNIPERUS CHINENSIS 'PFITZERANA'	6-8 FT.	6 FT.	NEEDS ROOMS
PRINCE OF WALES JUNIPER	JUNIPERUS HORIZONTALIS 'PRINCE OF WALES'	8-10 IN.	4 FT.	FEATHERY APPEARANCE.
SARGENT JUNIPER	JUNIPERUS CHINENSIS 'SARGENTII'	1-2 FT.	5 FT.	FULL SUN. NEEDS GOOD DRAINAGE. GOOD WINTER COLOR
SHORE JUNIPER	JUNIPERUS CONFERTA	2-3 FT.	5 FT.	EMERALD SEA OF BLUE PACIFIC CULTIVARS ARE GOOD
LIRIOPE	LIRIOPE MUSCARI	8-10 FT.	5 FT.	
CREEPING LIRIOPE	LIRIOPE SPICATA	10-12 FT.	1 FT.	SPREADS BY RUNNERS.
BIG LEAF PERIWINKLE	VINCA MAJOR	12-15 IN.	4 FT.	LILAC FLOWERS IN SPRING. SEMI-SHADE
COMMON PERIWINKLE	VINCA MINOR	5-6 IN.	4 FT.	LAVENDER-BLUE FLOWERS IN SPRING SEMI-SHADE
CHEROKEE ROSE	ROSA LAEVIGATA	2 FT	5 FT.	RAMPANT GROWER, NOT FOR RESTRICTED SPACES. STATE FLOWER.
MEMORIA ROSE	ROSA WEICHUHIANA	2 FT	5 FT.	RAMPANT GROWER.
ST. JOHNSWORT	HYPERICUM CALYCEXIUM	8-12 IN.	3 FT.	SEMI-SHADE
ANTHONY WATERER SPIREA	SPIREA BUMALDA	3-4 FT.	5 FT.	SUN.
THUNBERG SPIREA	SPIREA THINBERGII	3-4 FT.	5 FT.	SUN.

PERMANENT COVER

TABLE 6-4.1 COMPANION CROPS

TYPE OF SPECIES	APPLICATION TYPE	APPLICATION RATES PER ACRE	APPLICATION RATES PER 1000 SQ.FT.	RESOURCE AREA	PLANTING DATES W/ REMOVE AREAS (USED ONCE/3 MONTHS) (ONCE/MONTH IF LAWNS MULCH REMAINING BUT MAINTAIN)	OPTIMUM PLANTING DATES	REMARKS
BAHIA, PENSACOLA (Paspalum Notatum)	ALONE OR WITH TEMPORARY COVER	60 lbs.	1.4 lbs.	P C	J F M A M J J A S O N D	4/1 - 5/31 5/1 - 5/31	166,000 SEED PER POUND, LOW GROWING. SOD FORMING. SLOW TO ESTABLISH, WILL SPREAD INTO BERMUDA LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
	WITH OTHER PERENNIALS	30 lbs.	0.7 lbs.				
BAHIA, WILMINGTON (Paspalum Notatum)	ALONE OR WITH TEMPORARY COVER	60 lbs.	1.4 lbs.	M-L P	J F M A M J J A S O N D	3/15 - 5/31 5/1 - 5/31	166,000 SEED PER POUND, LOW GROWING. SOD FORMING. SLOW TO ESTABLISH, WILL SPREAD INTO BERMUDA LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
	WITH OTHER PERENNIALS	30 lbs.	0.7 lbs.				
BERMUDA, COMMON (Cynodon Dactylon)	ALONE	10 lbs.	0.2 lbs.	P C	J F M A M J J A S O N D	4/1 - 5/31 5/15 - 5/31	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
HULLED SEED	WITH OTHER PERENNIALS	6 lbs.	0.1 lbs.				
BERMUDA, COMMON (Cynodon Dactylon)	WITH TEMPORARY COVER	10 lbs.	0.2 lbs.	P C	J F M A M J J A S O N D	10/1 - 2/28 11/1 - 1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
UNHULLED SEED	WITH OTHER PERENNIALS	6 lbs.	0.1 lbs.				
BERMUDA SPRIGS (Cynodon Dactylon)	SPRIG SOD PLUGS	40 cu.ft.	0.9 cu.ft.	P C	J F M A M J J A S O N D	6/15 - 6/15 4/1 - 6/15 4/1 - 5/31	1 cu.ft. = 650 SPRIGS (APPROX.). PLANT SOD PLUGS ON 3x3 FOOT GRID. USE COASTAL, COMMON, TIFT 44 IN ALL RESOURCE AREAS; TIFT 78 ONLY IN C; AND MIDLAND ONLY IN M-L.
CENTIPEDE (Ermnochloa Ophiuroides)	BLOCK SOD ONLY	BLOCK SOD ONLY	BLOCK SOD ONLY	P C	J F M A M J J A S O N D	11/1 - 5/31 11/1 - 5/31	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE IN CONCENTRATED FLOWS. IRRIGATION NEEDED UNTIL ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERKILLED IN M-L.
CROWNVETCH (Coronilla Varia)	WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 lbs.	0.3 lbs.	M-L P	J F M A M J J A S O N D	9/1 - 10/15 9/1 - 10/15	100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. MIX WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE. INOCULATE SEED WITH M INOCULANT. USE NORTH OF ATLANTA.
FESCUE, TALL (Festuca Arundinacea)	ALONE	50 lbs.	1.1 lbs.	M-L P	J F M A M J J A S O N D	3/1 - 4/15 8/15 - 10/15 9/1 - 10/15	227,000 SEED PER POUND. ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SPOTS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS (e.g. ATHLETIC FIELDS).
	WITH OTHER PERENNIALS	30 lbs.	0.7 lbs.				
LESPEDEZA, SERICEA (Lespedeza Cuneata) SCARIFIED	ALONE	60 lbs.	1.4 lbs.	M-L P C	J F M A M J J A S O N D	4/1 - 5/31 3/15 - 5/31 5/1 - 5/31	350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS. INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SERICEA (Lespedeza Cuneata) UNSCARIFIED	ALONE	75 lbs.	1.7 lbs.	M-L P C	J F M A M J J A S O N D	9/1 - 2/28 9/1 - 2/28 9/1 - 2/28	
LESPEDEZA, SERICEA (Lespedeza Cuneata)	ALONE	3 TONS	138 lbs.	M-L P	J F M A M J J A S O N D	10/1 - 2/31 10/1 - 1/31 10/15 - 1/15	CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
SEED BEARING HAY (LESPEDEZA, AUBREY VIRGATA, OR APPALOW (Lespedeza Virgata x Cuneata & Dor)	ALONE	60 lbs.	1.4 lbs.	M-L P C	J F M A M J J A S O N D	4/1 - 6/31 3/15 - 5/31 5/1 - 5/31	350,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGEOUS IN URBAN AREAS. SPREADING-TYPE GROWTH. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, TALL FESCUE OR WINTER ANNUALS. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. INOCULATE WITH EL INOCULANT.
LESPEDEZA, SERICEA VIRGATA, OR APPALOW (Lespedeza Virgata x Cuneata & Dor) UNSCARIFIED	ALONE	75 lbs.	1.7 lbs.	M-L P C	J F M A M J J A S O N D	9/1 - 2/28 9/1 - 2/28 9/1 - 2/28	
LESPEDZA, SHRUB (Lespedeza bicolor) (Lespedeza thunbergii)	PLANTS ONLY	PLANTS ONLY	PLANTS ONLY	M-L P	J F M A M J J A S O N D	10/1 - 2/31 10/1 - 2/31 11/15 - 2/28	PLANT ON 3x3 FOOT GRID. PROVIDE WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING (Eragrostis Curvula)	ALONE	4 lbs.	0.1 lbs.	M-L P C	J F M A M J J A S O N D	4/1 - 5/31 5/1 - 5/31 5/1 - 5/31	1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.
	WITH OTHER PERENNIALS	2 lbs.	0.05 lbs.				
MISCANCANE (Panicum Virgatum)	SPRIGS ONLY	SPRIGS ONLY	SPRIGS ONLY	M-L P C	J F M A M J J A S O N D	2/1 - 3/31 2/1 - 3/31 2/1 - 3/31	PLANT AT 2x3 FOOT SPACING. FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER BANKS AND SHORELINES.
PANICGRASS, ATLANTIC OR COASTAL (Panicum Amarulum) (Panicum Amarulum)	ALONE	20 lbs.	0.5 lbs.	P C	J F M A M J J A S O N D	4/1 - 4/30 5/1 - 7/30	GROWS WELL ON COASTAL SAND DUNES, BORROW AREAS, AND GRAVEL PITS. NOT RECOMMENDED FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT ON SAND DUNES.
REED CANARY GRASS (Phalaris Arundinacea)	ALONE	50 lbs.	1.1 lbs.	M-L P	J F M A M J J A S O N D	6/15 - 10/15 9/1 - 10/15	GROWS SIMILAR TO TALL FESCUE.
	WITH OTHER PERENNIALS	30 lbs.	0.7 lbs.				
SUNFLOWER, "AZTEC" MAXIMILIANE (Helianthus Maximillani)	ALONE	10 lbs.	0.2 lbs.	M-L P C	J F M A M J J A S O N D	4/15 - 5/31 4/15 - 5/31 4/1 - 5/31	227,000 SEED PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.
KUDZU (Pueraria Thumbergiana)	PLANTS OR CROWNS	PLANTS OR CROWNS	PLANTS OR CROWNS	M-L P C	J F M A M J J A S O N D	1/1 - 3/15 1/1 - 3/15 1/1 - 3/15	PLANT AT 3 TO 7 FOOT SPACING. RAPID AND VIGOROUS GROWTH. EXCELLENT CONTROL. VINES WILL CLIMB. VERY* WITH LOCAL JURISDICTION PRIOR TO USE.

TREES FOR EROSION CONTROL

TABLE 6-5.4

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES 1/	SPACING	PLANTING DATES 4/
BORROW AREAS, 12/1-3/15 GRADED AREAS, AND SPOIL MATERIAL	SANDY	LAKELAND, TROUP	LOBLOLLY PINE (PINUS TAEDA)	(2)	M-L P 12/1-3/15 C 12/1-3/1
	LOAMY	ORANGEBURG, TIFTON	LONGLEAF PINE (PINUS PALUSTRIS)		
			LOBLOLLY PINE		M-L P 12/1-3/15 C 12/1-3/1
			SLASH PINE		
	CLAY	CECIL FACEVILLE	LOBLOLLY PINE		M-L P 12/1-3/15 C 12/1-3/1
			SLASH PINE		
			VIRGINIA PINE (PINUS VIRGINIANA)		
STREAMBANKS ALL 11/15-3/15			WILLOWS 4/ (SALIX SPECIES)	2 FT X 2 FT	

(1) OTHER TREES AND SHRUBS LISTED ON TABLE 6-5.3 MAY BE INTERPLANTED WITH THE PINES FOR IMPROVED WILDLIFE BENEFITS.

(2)

TYPE OF PLANTING	TREE SPACING	NO. OF TREES PER ACRE
TREES ALONE	4 FT. X 4 FT.	2722
TREES IN COMBINATION WITH GRASSES AND/OR OTHER PLANTS	6 FT. X 6 FT.	1210

(3) FERTILIZATION OF COMPANION CROP IS AMPLE FOR THIS SPECIES.

FERTILIZER REQUIREMENTS

TABLE 6-5.1

TYPE OF SPECIES	YEAR	ANALYSIS OR N-P-K	EQUIVALENT	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST	6-12-12	1500 LBS./AC.	50-100 LBS./AC. 1/2/
	SECOND	6-12-12	1500 LBS./AC.	50-100 LBS./AC. 1/
	MAINTENANCE	10-10-10	400 LBS./AC.	30
2. COOL SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS./AC.	0-50 LBS./AC. 1/
	SECOND	0-10-10	1000 LBS./AC.	-
	MAINTENANCE	0-10-10	400 LBS./AC.	-
3. GROUND COVERS	FIRST	10-10-10	1500 LBS./AC.	-
	SECOND	10-10-10	1000 LBS./AC.	-
	MAINTENANCE	10-10-10	400 LBS./AC.	-
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
5. SHURB LESPEDEZA	FIRST	0-10-10	700 LBS./AC.	-
	MAINTENANCE	0-10-10	700 LBS./AC.	-
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS./AC.	30 LBS./AC. 5/
7. WARM SEASON GRASSES	FIRST	6-12-12	1500 LBS./AC.	50-100 LBS./AC. 3/ 6/
	SECOND	6-12-12	800 LBS./AC.	50-100 LBS./AC 3/
	MAINTENANCE	10-10-10	400 LBS./AC.	30 LBS./AC.
8. WARM SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS./AC.	50 LBS./AC. 6/
	SECOND	0-10-10	1000 LBS./AC.	
	MAINTENANCE	0-10-10	400 LBS./AC.	

(1) APPLY IN SPRING FOLLOWING SEEDING.
(2) APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
(3) APPLY IN 3 SPLIT APPLICATIONS.
(4) APPLY WHEN PLANTS ARE PRUNED.
(5) APPLY TO GRASS SPECIES ONLY.
(6) APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

Ds3

6A-Ds3

MULCHING

- MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS.
- STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING.
- MULCH SHALL BE USED AS A BEDDING MATERIAL TO CONSERVE MOISTURE AND CONTROL WEEDS IN NURSERIES, ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS.
- THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND.
- MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.
- WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.
- SELECT THE MULCHING MATERIAL BEST SUITED OR AS OUTLINED IN PLAN.
- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE. BOTH SHALL BE APPLIED TO ACHIEVE 4 TO 6 INCHES OF THICKNESS.
- WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE TO ACHIEVE 4 TO 6 INCHES OF THICKNESS. DRY STRAW OR DRY HAY SHALL BE INSTALLED AFTER HYDRAULIC SEEDING.
- WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING PLANTING.
- HYDRAULIC SEEDING ON SLOPES 2/4:1 OR STEEPER SHALL USE 1,000 POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER.
- SERICEA LESPEDEZA WITH CONTAINED NATURE SEED CAN BE USED AND SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK CHIPS MAY BE USED AND SHALL BE APPLIED AT A THICKNESS OF 3 TO 5 INCHES FOR BEDDING AREAS AND 2 TO 3 INCHES FOR SCATTERED AREAS. WHERE OTHER SUITABLE MATERIALS OF SUFFICIENT QUANTITY MAY BE OBTAINED, THEY SHALL BE APPLIED IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

ANCHORING MULCH

- STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
- MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-SOR SS-1) OR OTHER SUITABLE TACKIFIER.
- WOOD WASTE ON SLOPES FLATTER THAN 3:1 (33%) DO NOT NEED ANCHORING.
- STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION.
- STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-S OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE OR SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT
- EMULSIFIED ASPHALT SHALL BE APPLIED AS A MIXTURE OF 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.
- TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. SYNTHETIC BINDERS OR BINDERS APPROVED BY EPD/DOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE FOR THE WOOD WASTE CHIPS.
- POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
STRAW OR HAY	2 1/2 TON/ACRE	2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK	6 TO 9 TON/ACRE	2" TO 3"
CUTBACK ASPHALT	1200 GAL./ACRE, OR 1/4 GAL./SQ. YD. OR SEE MANUFACTURER'S RECOMMENDATIONS	---
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	---
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	---

INSTALLATION

- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- MULCH IS NOT SUITABLE FOR USE ON AREAS THAT WILL BE EXPOSED FOR SIX MONTHS OR LONGER. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION IS REQUIRED.
- MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING.
- MULCH MUST BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED AS NEEDED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.
- IN CONCENTRATED FLOW AREAS, ENSURE MULCH IS PROPERLY ANCHORED OR AVOID UTILIZING MULCH ALL TOGETHER.
- GRADE SITE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL OTHER NEEDED/REQUIRED EROSION CONTROL MEASURE BMPS PRIOR TO PLACING MULCH ON AREA.
- LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF THREE (3) INCHES.
- APPLY MULCH UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.

MULCHING MATERIALS

- DRY STRAW OR HAY – DRIED STRAW OR HAY WITH THE ADVANTAGE OF EASY APPLICATION.
- WOOD WASTE – ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- CUTBACK ASPHALT – SLOW CURING SHALL BE USED FOR EROSION CONTROL APPLICATIONS.
- POLYETHYLENE FILM – SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIALS FOR TEMPORARY PROTECTION. THIS COVER MATERIAL CAN BE SALVAGED AND RE-USED.

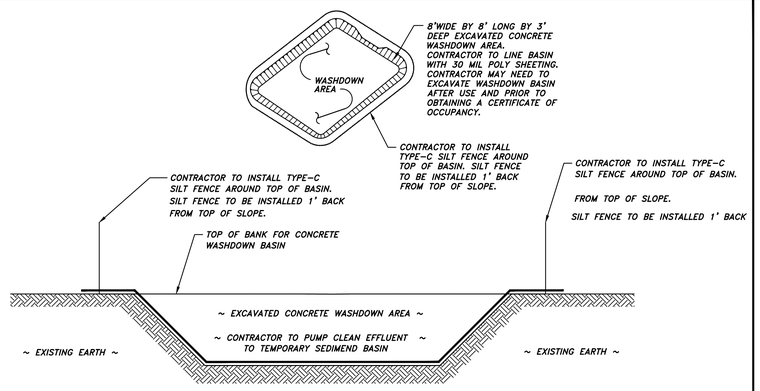
MAINTENANCE

- ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH.
- ENSURE MINIMUM OF 90% COVERAGE OF ALL EXPOSED EARTH.
- IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 30-35 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

Ds1

6A-Ds1



NOTE:
ALL CONTRACTORS AND SUB-OCONTRACTORS TO USE BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. ADDITIONAL INFORMATION ABOUT BEST MANAGEMENT PRACTICES FOR CONCRETE WASHOUT IS AVAILABLE AT www.epa.gov/npdes/pubs/concretewashout.pdf.

CONCRETE WASHDOWN BASIN DETAIL

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

Ds3

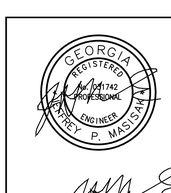
6A-Ds3

MAINTENANCE

- RE-SEED AREAS WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- ENSURE MINIMUM OF 70% COVERAGE OF ALL EXPOSED EARTH IN ORDER TO ACHIEVE FINAL STABILIZATION.
- APPLY ONE TON OF AGRICULTURAL LIME EVERY 4-6 YEARS OR AS INDICATED BY SOIL TESTS.
- FERTILIZE IN EARLY SPRING WITH SOIL TESTS OR AS SHOWN IN TABLE 6-5.1 FOR SECOND YEAR AND MAINTENANCE RATES.
- MOW BERMUDA AND BAHIA AS DESIRED. MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE SEEDS ARE MATURE.
- MAINTAIN 6" OR MORE OF TOP GROWTH. NOTE THAT MOWING TOO CLOSE TO THE ROOTS WILL STUNT ROOT GROWTH AND REDUCE VIGOR.
- IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

PLANT SELECTION

- REFER TO TABLES 6-4.1, 6-5.2, 6-5.3 AND 6-5.4 FOR APPROVED SPECIES.
- SPECIES NOT LISTED SHALL BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE NATURAL RESOURCES CONSERVATION SERVICE BEFORE THEY ARE USED.
- PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE USER.
- SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE (e.g., COMMON BERMUDA, TALL FESCUE, WEEPING LOVEGRASS).
- OTHER PERENNIALS ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES (e.g. BAHIA GRASS AND SERICEA LESPEDEZA).
- PLANTING WITH COMPANION SPECIES WILL PROVIDE QUICK COVER AND SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOMES ESTABLISHED.
- COMMON SEEDING COMBINATIONS ARE:
  1. WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (UNSCARIFIED).
  2. TALL FESCUE WITH SERICEA LESPEDEZA (UNSCARIFIED).
- PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THE OPTIMUM PLANTING PERIOD (e.g., BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER).
- CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS, AND GROWING SPACE.
- A HIGH SEEDING RATE OF THE COMPANION CROP MAY HINDER THE ESTABLISHMENT OF PERENNIAL SPECIES.
- RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAIN



4-28-22

JEFFREY P. MASISAK, PE, CPESC — DATE
ESWCC LEVEL II CERTIFICATION NO. 0000001217
EXPIRES: 05/05/2024

50 51 52

2022 EROSION CONTROL CHECKLIST ITEM

TABLE OF CONTENTS

Part I. COVERAGE UNDER THIS PERMIT

A. Permit Area.

This permit regulates point source discharges of stormwater to the waters of the State of Georgia from construction activities, as defined in this permit.

B. Definitions. All terms used in this permit shall be interpreted in accordance with the definitions as set forth in the Georgia Water Quality Control Act (Act) and the Georgia Rules and Regulations for Water Quality Control Chapter 391-3-6 (Rules), unless otherwise defined in this permit.

1. "Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other conservation measures to prevent and minimize erosion and sedimentation and the discharge of pollutants in stormwater runoff. BMPs include, but are not contained to the "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, and O.C.G.A. 12-7-6, as well as the following:

(i). Except as provided in Part IV.(6)(i). below, 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 removed by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented.

(ii) Buffer crossings by streets, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer.

(iii) Buffer crossings for utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) trees and other woody vegetation are maintained in a 10 foot wide strip centered over any utility line installed, and (d) the utility line is constructed perpendicular to the stream. The Buffer shall not be disturbed, and the surface water drainage area (if applicable), for projects that begin on or before the effective date of this permit, that start more than 12 months after coverage under a previous permit has expired or been revoked without a successor permit being issued, unless a successor permit has been applied for and issued within a reasonable period of time.

(iv) Stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) trees and other woody vegetation are maintained in a 10 foot wide strip centered over any utility line installed, and (d) the utility line is constructed perpendicular to the stream. The Buffer shall not be disturbed, and the surface water drainage area (if applicable), for projects that begin on or after the effective date of this permit, that start more than 12 months after coverage under a previous permit has expired or been revoked without a successor permit being issued, unless a successor permit has been applied for and issued within a reasonable period of time.

(v) Buffer crossings by pipelines, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer. The Plan shall include a statement by myself or my authorized agent, under my supervision."

The Plan shall include, as a minimum, best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, but not contained to, those practices contained in the Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted and O.C.G.A. 12-7-6, as well as the following:

(i). Except as provided in Part IV.(6)(i). below, 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 removed by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-7-6, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented.

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(iii) Buffer crossings for utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) trees and other woody vegetation are maintained in a 10 foot wide strip centered over any utility line installed, and (d) the utility line is constructed perpendicular to the stream.

(iv) Stream crossings for aerial utility lines, provided that: (a) the new utility line right-of-way width does not exceed 100 linear feet, (b) utility lines are routed and constructed so as to minimize the number of stream crossings and disturbances to the buffer, (c) trees and other woody vegetation are maintained in a 10 foot wide strip centered over any utility line installed, and (d) the utility line is constructed perpendicular to the stream.

(v) Buffer crossings by pipelines, provided that the crossings occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream and cause a width of disturbance of not more than 50 feet within the buffer, and native riparian vegetation is re-established in any bare or disturbed areas within the buffer.

(vi) encourage stormwater discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring are covered by a different NPDES general permit or individual permit authorizing stormwater discharges are in compliance with a different NPDES permit.

3. Limitations on Coverage. The following stormwater discharges from construction sites are not authorized by this permit:

certification by EarthCon International, Inc. Design Professionals shall practice in a manner that complies with applicable Georgia law governing professional licensure.

10. "Director" means the Director of the Environmental Protection Division or an authorized representative.

11. "Division" means the Environmental Protection Division of the Department of Natural Resources.

12. "Erosion" means the process by which land surface is worn away by the action of wind, water, ice or gravity.

13. "Erosion, Sedimentation and Pollution Control Plan" or "Plan" means a plan for the control of soil erosion, sedimentation and pollution resulting from a construction activity.

14. "Filling" means the placement of any soil or other natural matter either organic or inorganic on a natural ground surface in such a way as to increase the elevation of that surface.

2. "Buffer" means the area of land immediately adjacent to the banks of State waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.

3. "Certified Personnel" means a person who has successfully completed the appropriate certification course approved by the Georgia Soil and Water Conservation Commission.

4. "Commencement of Construction" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction activities.

5. "Common Plan of Development" means the construction, where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development.

6. "Construction Activity" means the disturbance of soils associated with clearing, grading, excavating, filling, of land, or other similar activities which may result in soil erosion. Construction activity does not include agricultural and silvicultural practices, but does include agricultural buildings.

7. "CPESC" means Certified Professional in Erosion and Sediment Control with current certification by EnviroCert International, Inc.

8. "Design Professional" means a professional licensed by the State of Georgia in the field of: engineering, architecture, landscape architecture, forestry, geology, or land surveying; or a person that is a Certified Professional in Erosion and Sediment Control (CPESC) with a current

15. "Impossible" means that all soil-disturbing activities at the site have been completed, with permanent erosion control measures that are covered by perpetual vegetation, and cease to exist outside the water disposal limits of a landfill cell that has been certified by EPD for waste disposal. For example, a closed landfill with a permanent vegetative cover would be impossible to "fly over," or grasses in undeveloped lawns in the form of sod would be impossible to "dig out" of, but a closed landfill covered with hardscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a roof or similar structure) such that all soil-disturbing activities at the site have been completed.

16. "Larger common plan of development or sale" means a contiguous area where multiple, separate, and distinct construction activities will be taking place at different times on different schedules under one plan of development. "Sale" means the offering of lots for sale or lease.

17. "Operator" means the entity that has the primary day-to-day operational control of those activities necessary to ensure compliance with the permit conditions are being satisfied. For example, the owner of property who has retained control over all aspects of the activity, including decision making authority and the right to direct personnel who perform activities related to permit conditions, is the operator. Any person associated with a construction project that meets either of the following two criteria is considered to be an operator for the purposes of this permit: (1) the person has direct control over the construction plans and specifications, including the ability to make modifications to those plans and specifications; or (2) the person has day-to-day operational control over those activities at a project which are necessary to ensure compliance with the erosion, sedimentation and pollution control plan for the site or other permit conditions. For example, a developer

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS.
2. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO BEGINNING ANY WORK.
3. CONTRACTOR MUST POSSESS CURRENT LICENSES AND/OR CERTIFICATIONS AS MAY BE REQUIRED BY LAW TO APPLY GENERAL OR RESTRICTED USE PESTICIDES AND CHEMICALS.
4. USER OF THESE DRAWINGS IS CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND FOUNDATIONS AS SHOWN ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES AND FOUNDATIONS, WHETHER ABANDONED OR FUNCTIONAL, ARE SHOWN ON DRAWINGS. IF UNDERGROUND FOUNDATION OR UTILITY WHICH IS NOT SHOWN ON DRAWINGS IS ENCOUNTERED OR DAMAGED BY CONSTRUCTION WORK, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY PROPOSED GRADES, DIMENSIONS, AND EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR DIRECTION BEFORE PROCEEDING WITH WORK. WORK STARTED WITHOUT DIRECTION FROM THE LANDSCAPE ARCHITECT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CORRECTED IF NECESSARY AT HIS/HER EXPENSE.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY PROTECTION SERVICE (811) TO LOCATE ALL ABOVE AND BELOW GROUND UTILITIES PRIOR TO BEGINNING WORK.
7. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES AS NEEDED TO ENSURE THE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC WITHIN CONSTRUCTION ZONES.
8. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND COURTEOUS WORK SITE FOR THE DURATION OF THE PROJECT. TRASH AND DEBRIS SHALL BE PICKED UP AND PROPERLY DISPOSED OF EACH DAY. VEHICLES AND EQUIPMENT SHALL BE CLEANED AND MAINTAINED REGULARLY SO AS NOT TO DRIP ANY FLUIDS OR TRACK AND SEDIMENT WITHIN THE PROPERTY.
9. THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENT LEAVES THE WORK SITE DURING CONSTRUCTION. ANY SEDIMENT THAT ACCUMULATES ALONG THE CURB OR ON THE ROADWAY SHALL BE SWEPT UP AT THE END OF EACH WORK DAY AND PRIOR TO EACH RAIN EVENT.
10. ALL CONSTRUCTION DEBRIS SHALL BE HAULED OFF SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.
11. ANY PROPERTY THAT IS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES FROM THIS PROJECT SHALL BE REPLACED OR REPAIRED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL LEAVE THE PROJECT SITE IN A PRISTINE CONDITION UPON COMPLETION OF THE WORK. REMOVE AND PROPERLY DISPOSE OF ALL TRASH, DEBRIS, EXCESS SOIL, ETC. CLEAN ALL VISIBLE SURFACES SO THEY ARE FREE FROM DIRT, SMUDGES, STAINS, ETC.

811 Know what's below. Call before you dig.

1

SITE AREA = 0.79 ACRES

LANDSCAPE NOTES:

1. LANDSCAPE PLANS ARE FOR THE LOCATION AND IDENTIFICATION OF PLANT MATERIAL ONLY. NO OTHER WORK IS TO BE PERFORMED BASED ON THESE PLANS.
2. QUANTITIES ON THE PLANT SCHEDULE ARE PROVIDED FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN QUANTITY CALCULATIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE LANDSCAPE PLANS AND THE PLANT SCHEDULE, THE LANDSCAPE PLAN WILL TAKE PRECEDENCE. THE CONTRACTOR SHALL INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERING ANY QUANTITY DISCREPANCIES.
3. THE CONTRACTOR SHALL NOT CHANGE OR SUBSTITUTE PLANT VARIETIES OR SPECIES WITHOUT PRIOR WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT. PLANT MATERIAL SHALL BE PLACED AS SHOWN ON THE LANDSCAPE PLANS.
4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE OF ALL PLANTING HOLES AND PLANT BEDS PRIOR TO INSTALLATION.
5. NEW SHRUB AND GROUNDCOVER PLANTING SHALL BE A MINIMUM OF 36" AWAY FROM EXISTING TREES.
6. TOPSOIL: ANY AVAILABLE TOP SOIL WITHIN THE LIMITS OF DISTURBANCE SHALL BE STOCKPILED ON SITE FOR RE-USE IN LANDSCAPE WORK. IF NO TOPSOIL IS STOCKPILED, THE CONTRACTOR SHALL IMPORT TOPSOIL, AS REQUIRED, TO COMPLETE LANDSCAPE WORK.

   IMPORTED TOP SOIL SHALL BE FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF ROOTS, STUMPS AND LARGE STONES AND FREE OF BRUSH, WEEDS, LITTER, AND OTHER EXTRANEOUS MATTER HARMFUL TO PLANT GROWTH.

   OBTAIN FROM LOCAL SOURCES OR AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL FROM NATURALLY, WELL DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN FOUR (4) INCHES. DO NOT OBTAIN FROM BOGS OR MARSHES.
7. PLANTING SOIL MIX FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL CONSIST OF THE FOLLOWING:

   80% TOPSOIL
   20% SOIL CONDITIONER (NATURE'S HELPER, COMPLETE LANDSCAPE MIX (CLM), OR APPROVED EQUAL)
8. **MYCORRHIZAL INOCULATE: EACH TREE AND SHRUB SHALL BE INOCULATED WITH MYCORRHIZAE. MICORRHIZAE SHALL BE A GRANULAR PRODUCT CONTAINING BOTH ENDO AND ECTO-MICORRHIZAL FUNGI, SUCH AS MYCOR TREE SAVER™ TRANSPLANT, AS MANUFACTURED BY PLANT HEALTH CARE, INC. (800-421-9051) OR APPROVED EQUAL. PROVIDE SAMPLE OR PRODUCT DATA SHEET FOR APPROVAL PRIOR TO WORK.**

   INOCULANT SHALL BE ADDED AFTER TREES AND SHRUBS HAVE BEEN PLACED IN THE PLANTING HOLE. INCORPORATE INTO THE TOP SIX (6) TO EIGHT (8) INCHES OF BACKFILL. APPLY PER MFG. RECOMMENDATIONS.
9. QUALITY OF PLANT MATERIAL: ALL PLANTS SHALL CONFORM TO THE CURRENT VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). PLANT MATERIAL SHALL BE FREE OF INSECTS, DISEASE AND/OR INJURY, AND SHALL HAVE A HEALTHY ROOT SYSTEM WITH NO CIRCLING OR KINKED ROOTS. CONTAINER PLANTS SHALL NOT BE ROOT BOUND. TREES SHALL HAVE STRAIGHT TRUNKS, A STRONG DOMINANT CENTRAL LEADER (AS REQUIRED BY SPECIES), DENSE CANOPIES AND STRONG BRANCHING WITH GOOD CROTCH ANGLES.
10. INSPECTION AND APPROVAL OF PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE UPON DELIVERY TO THE SITE AND PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE AT LEAST ONE WEEK NOTICE PRIOR TO PLANT DELIVERY.
11. PLANT MATERIAL SHALL BE SUFFICIENTLY WATERED TO WET THE ENTIRE ROOT BALL WITHIN TWO HOURS OF PLANTING.
12. MAINTENANCE: CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL FROM THE TIME IT IS INSTALLED UNTIL FINAL ACCEPTANCE OR WHEN THE OWNER TAKES OVER MAINTENANCE, WHICHEVER OCCURS FIRST. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO MOWING, EDGING, WEEDING, WATERING, PRUNING, FERTILIZING, ETC.
13. WARRANTY: CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL PLANT MATERIAL AND LABOR FOR A PERIOD OF ONE YEAR OR PER JURISDICTIONAL REQUIREMENTS, WHICHEVER IS LONGER. WARRANTY PERIOD SHALL BEGIN UPON FINAL COMPLETION OR WHEN THE OWNER TAKES OVER MAINTENANCE, WHICHEVER OCCURS FIRST.

    THE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS OF THE PROJECT DURING THE WARRANTY PERIOD TO ENSURE THAT THE ESTABLISHMENT RATE OF GROWTH IS ADEQUATE. ANY METHODS OR PRODUCTS DEEMED NOT NORMAL OR DETRIMENTAL TO GOOD PLANT GROWTH SHALL BE REPORTED TO THE OWNER IN WRITING. FAILURE TO INSPECT AND REPORT WILL BE INTERPRETED AS APPROVAL, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL REPLACEMENTS.

IRRIGATION NOTES:

1. IF NO PERMANENT IRRIGATION SYSTEM IS INSTALLED FOR THIS PROJECT, THE CONTRACTOR SHALL SUPPLY SLOW-RELEASE WATER BAGS (I.E. GATOR BAGS, OOZE TUBES, OR EQUIVALENT) FOR EACH NEWLY PLANTED TREE.
2. BAGS SHALL BE INSTALLED PER MFG. RECOMMENDATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-FILLING EACH BAG, AS NEEDED, FROM THE TIME OF INSTALLATION TO THE TIME OF SUBSTANTIAL COMPLETION.
4. BAGS SHALL BECOME PROPERTY OF THE OWNER AT SUBSTANTIAL COMPLETION.

TREE PLANTING NOTES:

1. **ALL TREES SHALL BE TEN (10) FEET MINIMUM FROM GAS LINES AND SANITARY SEWER, AND FIVE (5) FEET MINIMUM FROM FIRE HYDRANTS AND ALL OTHER UNDERGROUND UTILITIES.**
2. **IF TREES ARE INSTALLED NEAR A BUILDING, LANDSCAPE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT NO ROOF OR FOUNDATION DRAIN LINES ARE LOCATED WITHIN FIVE (5) FEET OF SCHEDULED TREES.**
3. TREES SHALL BE SET PLUMB AND LEVEL.
4. CAREFULLY LIFT AND SET TREES BY THE ROOT BALL ONLY. DO NOT LIFT USING THE TRUNK OR STEM. IF TREES ARE TOO LOW OR NOT PLUMB AFTER SETTING IN THE HOLE, RE-SET BY ADJUSTING THE ROOT BALL AS NEEDED.
5. FOR TREES PLANTED IN TREE ISLANDS: EXCAVATE THE ENTIRE TREE ISLAND TO A DEPTH OF 12", LOOSEN ANY HARDPAN, AND BACKFILL WITH TOPSOIL PRIOR TO DIGGING THE PLANTING HOLE.
6. REFER TO PLANTING DETAILS FOR ADDITIONAL INFORMATION.

TREE STAKING NOTES:

1. TREES 2" CALIPER AND SMALLER SHOULD NOT BE STAKED.
2. STAKING STRAPS SHALL BE SOFT, FLEXIBLE MATERIAL, 3/4" WIDTH, MANUFACTURED FOR THE PURPOSE OF TREE ANCHORING SUCH AS WOVEN POLYPROPYLENE WEBBING.
3. STRAPS SHALL BE ATTACHED IN THE LOWEST BRANCH CROTCH POSSIBLE, BUT NO HIGHER THAN 2/3 THE HEIGHT OF THE MAIN TRUNK.
4. STRAPS SHALL LAY FLAT AGAINST THE TREE TRUNK AND SHALL NOT BE TWISTED OR FOLDED.
5. STRAPS SHALL BE FIRMLY ATTACHED TO DEADMEN AND HAVE SUFFICIENT SLACK TO ALLOW TRUNK TO SWAY APPROXIMATELY 1" TO 2" IN ANY DIRECTION.

PLANT BED PREPARATION NOTES:

1. FLAG OR STAKE PROPOSED TREE LOCATIONS AND MARK ALL BEDLINES WITH ORANGE OR WHITE PAINT. NOTIFY THE OWNER'S REPRESENTATIVE FOR REVIEW AND FIELD ADJUSTMENTS, AS NEEDED.
2. UPON APPROVAL OF BEDLINES, SPRAY ALL EXISTING VEGETATION WITHIN PLANT BEDS WITH LEGALLY APPROVED WEED KILLER. REMOVE VEGETATION AFTER IT HAS BEEN KILLED.
3. TILL EACH PLANT BED TO A DEPTH OF SIX (6) INCHES WITH A ROTOTILLER.
4. REMOVE ANY LARGE ROCKS, ROOTS, TRASH OR OTHER HARMFUL MATERIAL FROM THE BED(S).
5. ADD ONE (1) INCH OF TOP SOIL TO THE SURFACE OF EACH BED. (SEE "LANDSCAPE NOTES" FOR MORE INFORMATION.)
6. ADD ONE (1) INCH OF AGED COMPOST TO THE SURFACE OF EACH BED. COMPOST MUST BE AGED APPROXIMATELY THREE (3) TO SIX (6) MONTHS. SOURCES MAY INCLUDE: CHICKEN MANURE, HORSE MANURE, ZOO ATLANTA MANURE, OR APPROVED EQUAL. SUBMIT PRODUCT INFORMATION TO OWNER'S REPRESENTATIVE FOR APPROVAL.
7. ADD ONE-HALF (1/2) INCH OF BIOCHAR TO THE SURFACE OF EACH BED. SUBMIT PRODUCT INFORMATION TO OWNER'S REPRESENTATIVE FOR APPROVAL.
8. AFTER APPLYING TOP SOIL, COMPOST AND BIOCHAR, TILL EACH BED A SECOND TIME TO THOROUGHLY INCORPORATE AMENDMENTS INTO THE TOP SIX (6) INCHES OF SOIL.
9. AFTER TILLING, RAKE BEDS SMOOTH, FORM A SLIGHT CROWN IN THE CENTER, AND ROLL COMPACT WITH A SOD ROLLER.

PLANT BED PREPARATION NOTES (cont'd):

10. RE-STAKE ANY PROPOSED TREES WITHIN THE PLANT BEDS FOR APPROVAL PRIOR TO PLANTING. INSTALL LARGE TREES PER PLANTING DETAILS.
11. ONCE TREES ARE INSTALLED, LAYOUT REMAINING PLANT MATERIAL IN EACH BED FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE.
12. INSTALL REMAINING PLANT MATERIAL PER PLANTING DETAILS.
13. APPLY AN APPROVED PRE-EMERGENT HERBICIDE (WEED INHIBITOR) TO THE ENTIRE PLANT BED AFTER PLANTS HAVE BEEN INSTALLED. APPLY PER MFG. RECOMMENDATIONS. USE A SEASONALLY APPROPRIATE PRODUCT DEPENDING ON INSTALLATION DATES. SUBMIT PRODUCT INFORMATION TO OWNER'S REPRESENTATIVE FOR APPROVAL.
14. REMOVE ALL PLANT TAGS AFTER APPROVAL OF PLANT INSTALLATION BY LANDSCAPE ARCHITECT.
15. MULCH ALL PLANT BEDS AND TREE RINGS WITH FRESH, CLEAN PINESTRAW TO A MINIMUM DEPTH OF THREE (3) INCHES (UNLESS OTHERWISE NOTED ON PLANS). DO NOT PILE MULCH AROUND THE BASE OF PLANTS OR TREE TRUNKS. ALL MULCH EDGES SHALL BE NEATLY TUCKED. ALL STRING AND/OR BAILING WIRE SHALL BE REMOVED. "DUST" SHRUBS AND GROUND COVER AFTER MULCHING TO REMOVE LOOSE PINESTRAW FROM THE PLANTS.
16. WATER PLANT BEDS IMMEDIATELY AFTER INSTALLING MULCH. ALL PLANTS SHALL BE WATERED THE SAME DAY THEY ARE INSTALLED. APPLY AT LEAST ONE (1) INCH OF WATER TO EACH BED.

TURF GRASS SOD NOTES:

1. SOD SHALL CONSIST OF A LIVE, DENSE, WELL-ROOTED GROWTH OF TURF GRASS SPECIES AS NOTED ON THE DRAWINGS. SOD SHALL BE FREE FROM JOHNSON GRASS, NUT GRASS, AND OTHER NOXIOUS WEEDS. SOD SHALL BE FREE OF HARMFUL INSECTS, DISEASE OR INJURY AT THE TIME OF PLANTING.
2. SOD SHALL BE UNIFORM IN THICKNESS, HAVING NOT OVER TWO (2) INCHES OR LESS THAN ONE (1) INCH OF SOIL.
3. SOD STRIPS SHALL HAVE A CONSISTENT WIDTH OF TWELVE (12) OR EIGHTEEN (18) INCHES OR LARGER FOR COMMERCIAL ROLLS.
4. FERTILIZER (5-10-15) USED IN CONNECTION WITH SODDING, SHALL CONTAIN 5 PERCENT NITROGEN, 10 PERCENT PHOSPHORIC ACID, AND 15 PERCENT POTASH. THE FERTILIZER SHALL BE FURNISHED IN STANDARD CONTAINERS WITH THE NAME, WEIGHT, AND GUARANTEED ANALYSIS OF THE CONTENTS CLEARLY MARKED. THE CONTAINERS SHALL ENSURE PROPER PROTECTION IN HANDLING AND TRANSPORTING OF THE FERTILIZER. ALL COMMERCIAL FERTILIZER SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL FERTILIZER LAWS.

TURF GRASS SOD NOTES (cont'd):

5. AMMONIUM NITRATE SHALL BE A STANDARD COMMERCIAL PRODUCT, SHALL CONFORM TO THE REQUIREMENTS FOR OTHER COMMERCIAL FERTILIZERS AS SPECIFIED ABOVE, AND SHALL HAVE A MINIMUM OF 32-1/2 PERCENT NITROGEN.
6. AGRICULTURAL LIMESTONE SHALL BE DOLOMITIC AND CONTAIN NOT LESS THAN 85 PERCENT OF CALCIUM CARBONATE AND MAGNESIUM CARBONATE COMBINED, AND SHALL BE CRUSHED SO THAT AT LEAST 85 PERCENT WILL PASS THE NO. 10 MESH SIEVE AND 50 PERCENT WILL PASS A NO. 40 MESH SIEVE.
7. SOD SHALL BE PLANTED ONLY WHEN THE SOIL IS MOIST AND FAVORABLE FOR GROWTH. NO PLANTING SHALL BE DONE BETWEEN OCTOBER 1 AND APRIL 1 UNLESS WEATHER AND SOIL CONDITIONS ARE CONSIDERED FAVORABLE AND PERMISSION IS GRANTED BY THE LANDSCAPE ARCHITECT.
8. THE AREA TO BE SODDED SHALL BE CONSTRUCTED TO THE LINES AND GRADES INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, AND THE SURFACE LOOSENED TO A DEPTH NOT LESS THAN THREE (3) INCHES WITH A RAKE OR OTHER DEVICE. IF NECESSARY, IT SHALL BE SPRINKLED UNTIL SATURATED AT LEAST ONE (1) INCH IN DEPTH AND KEPT MOIST UNTIL THE SOD IS PLACED THEREON. IMMEDIATELY BEFORE PLACING THE SOD, THE FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS, BASED ON SOIL SAMPLES.
9. THE ENTIRE AREA SHALL BE THOROUGHLY COVERED WITH SOD. THE SOD SHALL BE PLACED ON THE PREPARED SURFACE WITH THE EDGES IN CLOSE CONTACT AND, AS FAR AS POSSIBLE, WITH STAGGERED JOINTS.
10. THE SOD SHALL BE MAINTAINED MOIST FROM TIME OF REMOVAL UNTIL RESET BUT SHALL BE PLACED AS SOON AS PRACTICABLE AFTER REMOVAL FROM PLACE WHERE GROWING. IMMEDIATELY AFTER PLACING IT SHALL BE ROLLED WITH A LIGHT-WEIGHT ROLLER OR HAND TAMPED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
11. SOD ON SLOPES STEEPER THAN 3 TO 1 SHALL BE HELD IN PLACE BY WOODEN PINS APPROXIMATELY ONE (1) INCH SQUARE AND SIX (6) INCHES LONG, DRIVEN THROUGH THE SOD INTO THE SOIL UNTIL THEY ARE FLUSH WITH THE TOP OF THE ROOT MAT.
12. THE SOD SHALL BE WATERED AS DIRECTED BY THE LANDSCAPE ARCHITECT FOR A PERIOD OF TWO WEEKS AFTER WHICH AMMONIUM NITRATE SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS AND THE SOD GIVEN A FINAL WATERING.
13. THE CONTRACTOR SHALL NOT ALLOW ANY EQUIPMENT OR MATERIAL TO BE PLACED ON ANY PLANTED AREA AND SHALL ERECT SUITABLE BARRICADES AND GUARDS TO PREVENT CONTRACTOR'S EQUIPMENT, LABOR, OR THE PUBLIC FROM TRAVELING ON OR OVER ANY AREA PLANTED WITH SOD.
14.
15. IT SHALL BE THE OBLIGATION OF THE CONTRACTOR TO SECURE A SATISFACTORY GROWTH OF GRASS BEFORE FINAL ACCEPTANCE OF THE PROJECT.

ROOT DESIGN STUDIO landscape architecture
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GEORGIA No. LA001408 LANDSCAPE ARCHITECT MICHAEL KIDD

08/18/2022

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TREE REPLACEMENT PLAN - PLANT SCHEDULE

QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	SPACING	REMARKS	TREE DENISTY UNIT PER TREE	TOTAL TREE DENSITY UNITS	GENUS %	OVERSTORY
CANOPY TREES										
3	*Quercus shumardii*	Shumard Oak	4" Cal.	16'-18'	As Shown	1, 3, 4, 6, 10, 11	0.9	2.7	12.0%	Y
1	*Taxodium distichum 'Shawnee Brave'*	Shawnee Brave Bald Cypress	4" Cal.	16'-18'	As Shown	1, 3, 4, 6, 10, 11	0.9	0.9	4.0%	Y
3	*Zelkova serrata 'Green Vase'*	Green Vase Japanese Zelkova	4" Cal.	16'-18'	As Shown	1, 3, 4, 6, 10, 11	0.9	2.7	12.0%	Y
UNDERSTORY TREES										
4	*Cercis canadensis 'Merlot'*	Merlot Redbud	2" Cal.	6' Min.	As Shown	1, 3, 4, 6, 8, 10, 11 or 12	0.5	2.0	16.0%	N
9	*Ilex attenuata 'Fosteri'*	Foster's Holly	2" Cal.	6' Min.	As Shown	1, 3, 4, 6, 7, 10, 11 or 12	0.5	4.5	36.0%	N
5	*Magnolia grandiflora 'Teddy Bear'*	Teddy Bear Magnolia	2" Cal.	6' Min.	As Shown	2, 4, 5, 6, 7, 10, 11 or 12	0.5	2.5	20.0%	N
25	***TOTAL TREES TO BE PLANTED***						**TOTALS**	**15.3**	**100.0%**	**28.0%**
TURF										
2,866	*Cynodon dactolon 'tifway 419'*	Tifway Bermuda Grass '419'	Sq. Ft.		SOD	Thick and Full, Weed Free				
3,077	*Cynodon dactolon 'tifway 419'*	Tifway Bermuda Grass '419'	Sq. Ft.		SEED	Viable, Certified Weed Free				
MULCH										
800	*Pinestraw*		Sq. Ft.							

REMARKS:			
1.	Single Trunk	7.	Full to Ground
2.	Multi-Trunk, 3-5 canes, 1"min./cane	8.	Tree Form
3.	Straight Trunk	9.	Specimen
4.	Central Leader	10.	Matched Set
5.	Natural Branching	11.	Balled and Burlapped (B&B)
6.	Full Canopy / Head	12.	Container

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TREE DENSITY UNIT CALCULATIONS

Total Property Area	=	0.7932	AC
Times Requried Units per Acre	x	30	UNITS / AC
Required Site Denisty Factor (SDF)	**=**	**23.8**	DENSITY UNITS
Existing Density Factor (EDF	=	0	UNITS
Replacement Density Factor Provided (RDF)	+	15.3	UNITS
Total Density Units Provided on Plans	**=**	**15.3**	UNITS
Density Factor Defecient	**=**	**8.5**	UNITS
Times cost per Deficient Unit	x	$ 500.00	PER UNIT
Money to be Contributed to Tree Bank	**=**	**$4,250.00**	
*****REQUIREMENT MET THROUGH CONTRIBUTIONS TO THE TREE BANK*****			

PARKING LOT CALCULATIONS

LANDSCAPED AREA		
Proposed Parking Lot Size	=	18,961 SQ. FT.
Times Required Landscape Area	x	10% OF PAVED AREA
Required Landscaped Area	**=**	**1,896.10** SQ. FT.
Provided Landscape Area	**=**	**2,081.20** SQ. FT.
*****REQUIREMENT MET*****		
OVERSTORY TREES		
Proposed Parking Space Count	=	33 SPACES
Divided by Max. Number of Spaces per Tree	/	8 SPACES PER TREE
Required Number of Overstory Trees	**=**	**4.13** TREES
Provided Number of Overstory Trees	**=**	**6** TREES
*****REQUIREMENT MET*****		

PARKING LOT BUFFER STRIP CALCULATIONS

Western Buffer Strip Length	=	147 LINEAR FEET
Divided by Max. Tree Spacing	/	40 FEET ON CENTER
Required Number of Trees	**=**	**3.7** TREES
Provided Number of Trees	**=**	**4** TREES
*****REQUIREMENT MET*****		
Southern Buffer Strip Length	=	106 LINEAR FEET
Divided by Max. Tree Spacing	/	40 FEET ON CENTER
Required Number of Trees	**=**	**2.7** TREES
Provided Number of Trees	**=**	**3** TREES
*****REQUIREMENT MET*****		

RELEASED FOR CONSTRUCTION

PROPOSED CONVENIENCE STORE
4095 PLEASANTDALE ROAD DORAVILLE, GA 30340
PREPARED FOR:
KW COMMERCIAL
PARCEL ID: 18 318 03 007
LAND LOTS 318, 18TH DISTRICT
CITY OF DORAVILLE
DEKALB COUNTY, GEORGIA

MASS ENGINEERING AND CONSULTANTS, LLC.
3459 ACWORTH DUE WEST RD. SUITE 585
ACWORTH, GEORGIA 30101
PHONE: 404.850.7790
WWW.MASS-ENG.COM

MASS ENGINEERING AND CONSULTANTS, LLC

REVISIONS

DATE:	DESCRIPTION
1 08/18/2022	CITY COMMENTS

TREE REPLACEMENT NOTES & CALCULATIONS

PROJECT NUMBER: 21-0038
DATE: MARCH 11, 2022

L-00

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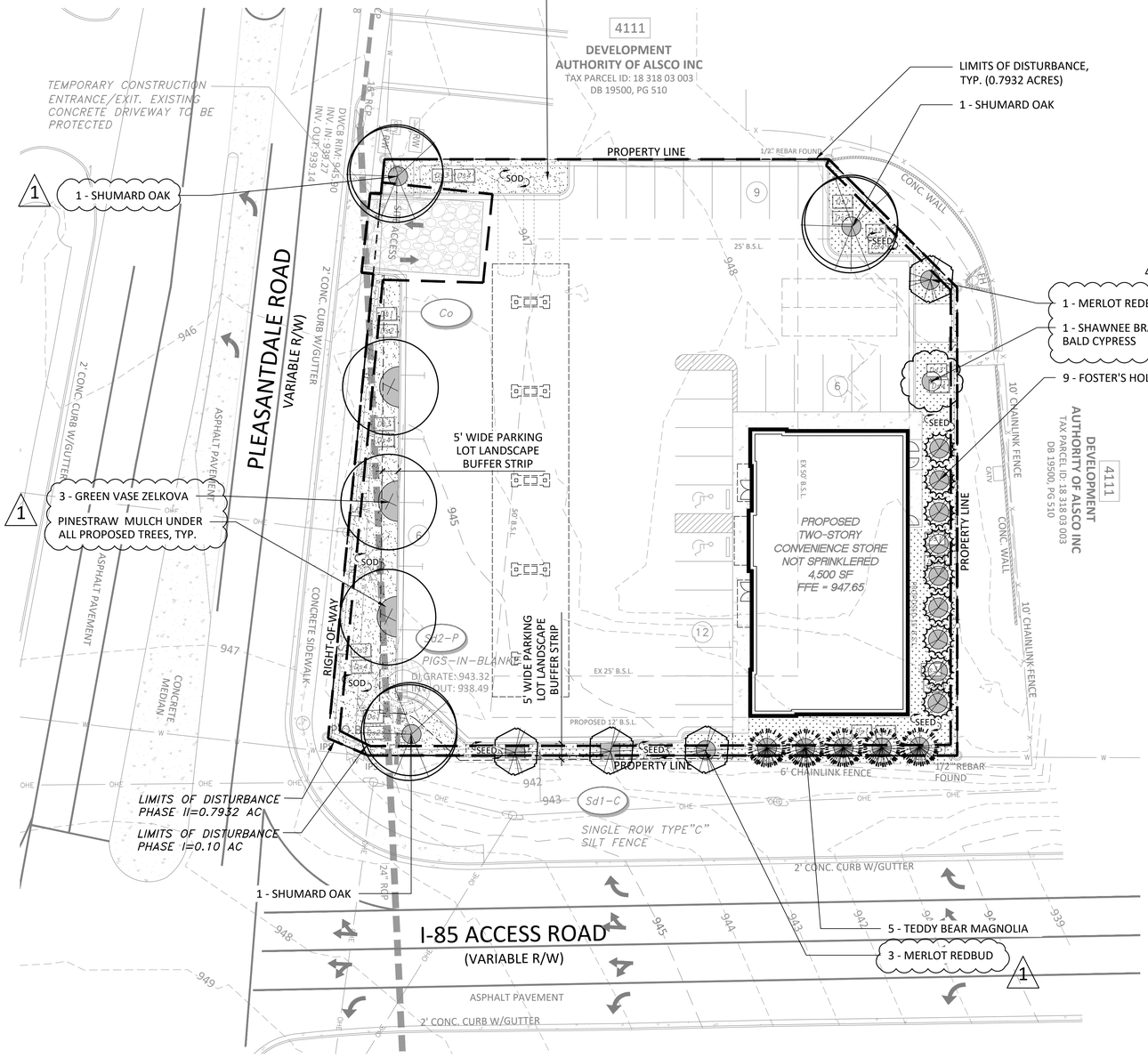


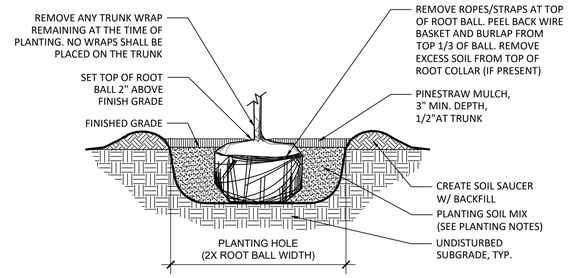
TREE PLAN NOTES

1. THERE ARE NO EXISTING TREES ON SITE.
2. ALL DISTURBED AREAS SHALL BE COVERED WITH SEED AND STRAW PER EROSION CONTROL PLANS, (UNLESS OTHERWISE NOTED).
3. ALL NEWLY PLANTED TREES SHALL HAVE A SIX-FOOT DIAMETER PINE STRAW MULCH RING, (UNLESS OTHERWISE NOTED).
4. SEE SHEET L-00 FOR NOTES, CALCULATIONS, & PLANT SCHEDULE.

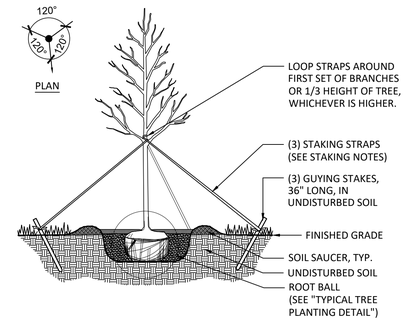
1 SITE AREA = 0.79 ACRES

811 Know what's below. Call before you dig.

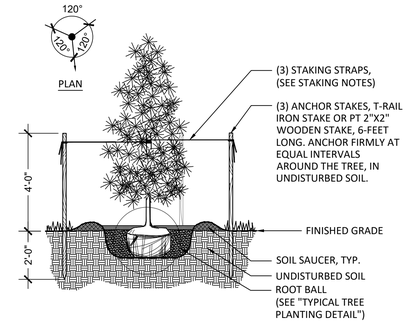
SCALE: 1"=20'



1 TYPICAL TREE PLANTING DETAIL
SCALE: NTS

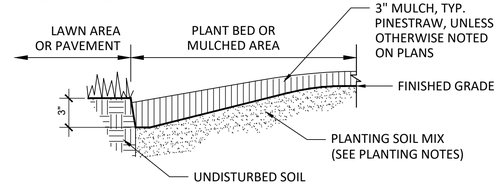


2 DECIDUOUS TREE STAKING DETAIL (> 2" CALIPER)
SCALE: NTS

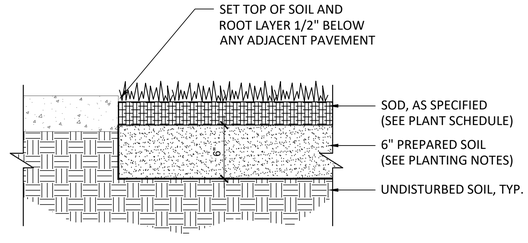


3 EVERGREEN TREE STAKING DETAIL
SCALE: NTS

NOTE: USE TRENCH EDGER AT ALL EDGES OF BEDLINES TO CONTAIN MULCH.



4 TRENCH EDGER DETAIL
SCALE: NTS



5 SOD DETAIL
SCALE: NTS

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