SITE DEVELOPMENT PLANS FOR:

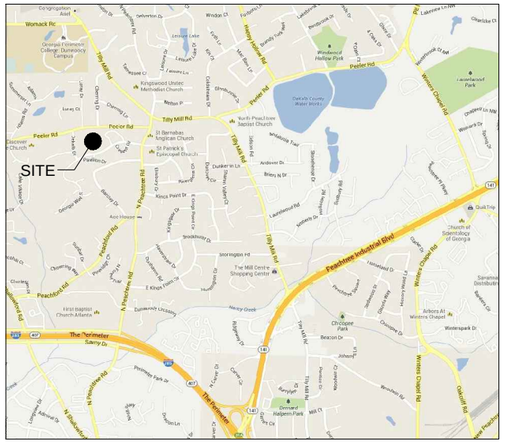
BROOK RUN DOG PARK
DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT, ZONED: R-85

Sheet List Table

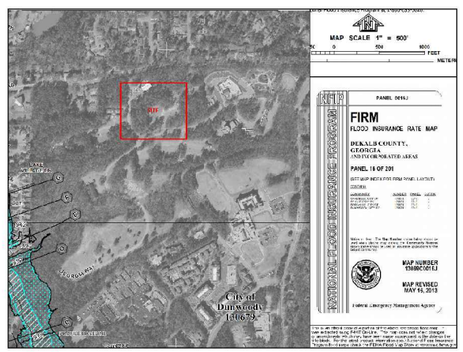
ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION - 12/1/2013
END CONSTRUCTION - 6/1/2014

	ACTIVITY	1.0 MTH	2.0 MTH	3.0 MTH	4.0 MTH	5.0 MTH	6.0 MTH
1	INITIAL EROSION CONTROL BMP INSTALLATION						
2	INTERMEDIATE EROSION CONTROL BMP INSTALLATION						
3	FINAL PHASE E&SC PRACTICES						
4	MAINTENANCE OF E&SC PRACTICES						
5	DEMOLITION						
6	CLEARING AND GRUBBING						
7	GRADING						
8	STORM & SANITARY SEWER INSTALLATION						
9	PAVING						
10	BUILDING CONSTRUCTION						
11	TEMPORARY GRASSING						
12	PERMANENT GRASSING						
13	TEMPORARY GRASSING @ 14 DAY INTERVALS						
14	PERMANENT GRASSING @ 30 DAY INTERVALS						
15	FINAL CLEAN UP						



VICINITY MAP
NOT TO SCALE

SITE DISTURBED AREA = 1.6 AC.



THIS SITE IS NOT LOCATED WITHIN A ZONE A, AE, OR SHADED ZONE X AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13121C FOR UNINCORPORATED DEKALB COUNTY, GEORGIA.

PROJECT DIRECTORY

OWNER/DEVELOPER
CITY OF DUNWOODY PARKS & RECREATION
41 PERIMETER CENTER EAST, SUITE 250
DUNWOODY, GA 30346
(678) 382-6700
CONTACT: MR. BRENT WALKER

LANDSCAPE ARCHITECT/CIVIL ENGINEER
FORESITE GROUP, INC.
5185 PEACHTREE PKWY., SUITE 240
NORCROSS, GA 30092
(770) 368-1399
CONTACT: JASON WECKERLY

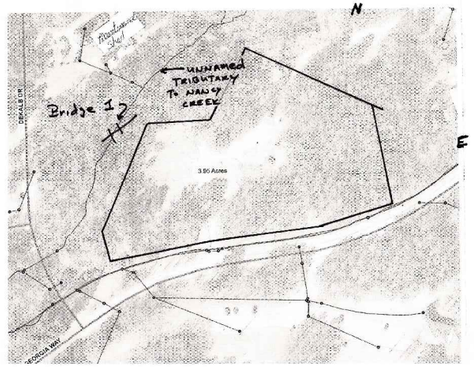
ARCHITECT
KACENA DESIGN, LLC
2944 RIDGELOCK CT.
ATLANTA, GA 30360
(404) 803-3869
CONTACT: MR. CHRIS KACENA

SURVEYOR
GEOSURVEY, LTD.
1660 BARNES MILL RD.
MARIETTA, GA 30062
(77) 795-9900
CONTACT: MR. DAVID HESTER

UTILITY PROVIDERS

WATER & SEWER SERVICE PROVIDER
DEKALB DEPT. OF WATERSHED MANAGMENT
1580 ROADHAVEN DRIVE
STONE MOUNTAIN, GA 30083
(770) 621-7200
CONTACT: MR. RUDOLPH A. CHEN

ELECTRICAL SERVICE PROVIDER
GEORGIA POWER
1841 CHAMBLEE TUCKER RD. SUITE 1-1A
CHAMBLEE, GA 30341
(770) 216-1313
CONTACT: MR. J.C. PORCH



PROPERTY LOCATION AND ADJACENT UNNAMED TRIBUTARY NORTH OF THE SITE.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER — DATE: 11/4/13

1575 — CERTIFICATION # — 04/22/2014 — EXPIRATION

"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 CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) WAS PREPARED BY A DESIGN PROFESSIONAL, AS DEFINED BY THE PERMIT, THAT HAS COMPLETED THE APPROPRIATE CERTIFICATION COURSE APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-19 AND THAT I WILL ADHERE TO THE PLAN AND COMPLY WITH ALL REQUIREMENTS OF THIS PERMIT."

SIGNATURE OF ENGINEER — DATE

PREPARED BY:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

24 HR CONTACT:
BRENT WALKER
(678) 382-6700

ISSUED:
AUGUST 9, 2013
487.001

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	AS SHOWN
TITLE:	COVER
SHEET NUMBER:	G-1
COMMENTS:	NOT RELEASED FOR CONSTRUCTION
JOB/FILE NUMBER:	487.001

GENERAL NOTES:

1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM THE CITY OF DUNWOODY PRIOR TO DEMOLITION OF THE SITE.

2) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.

3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

DEMOLITION NOTES:

1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.

2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH 2013 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRANSPORTATION SYSTEMS EXCEPT IN CASES WHERE, WITHIN THE CITY OF DUNWOODY JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.

3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.

4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.

5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.

6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.

7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF DUNWOODY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY/ALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.

8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.

9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.

10) CONTRACTOR EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN SITE.

11) COORDINATE WITH THE CITY OF DUNWOODY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.

12) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF DUNWOODY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.

13) ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

14) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.

15) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.

16) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.

17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE RIGHT OF WAY DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.

18) EXISTING LIGHTS AND CONCRETE BASES IN TREE SAVE AREAS SHALL BE REMOVED USING HAND EQUIPMENT TO AVOID DAMAGE TO TREES AND ROOT ZONES.

EROSION CONTROL NOTES

(SEE ALSO EROSION CONTROL PLAN)

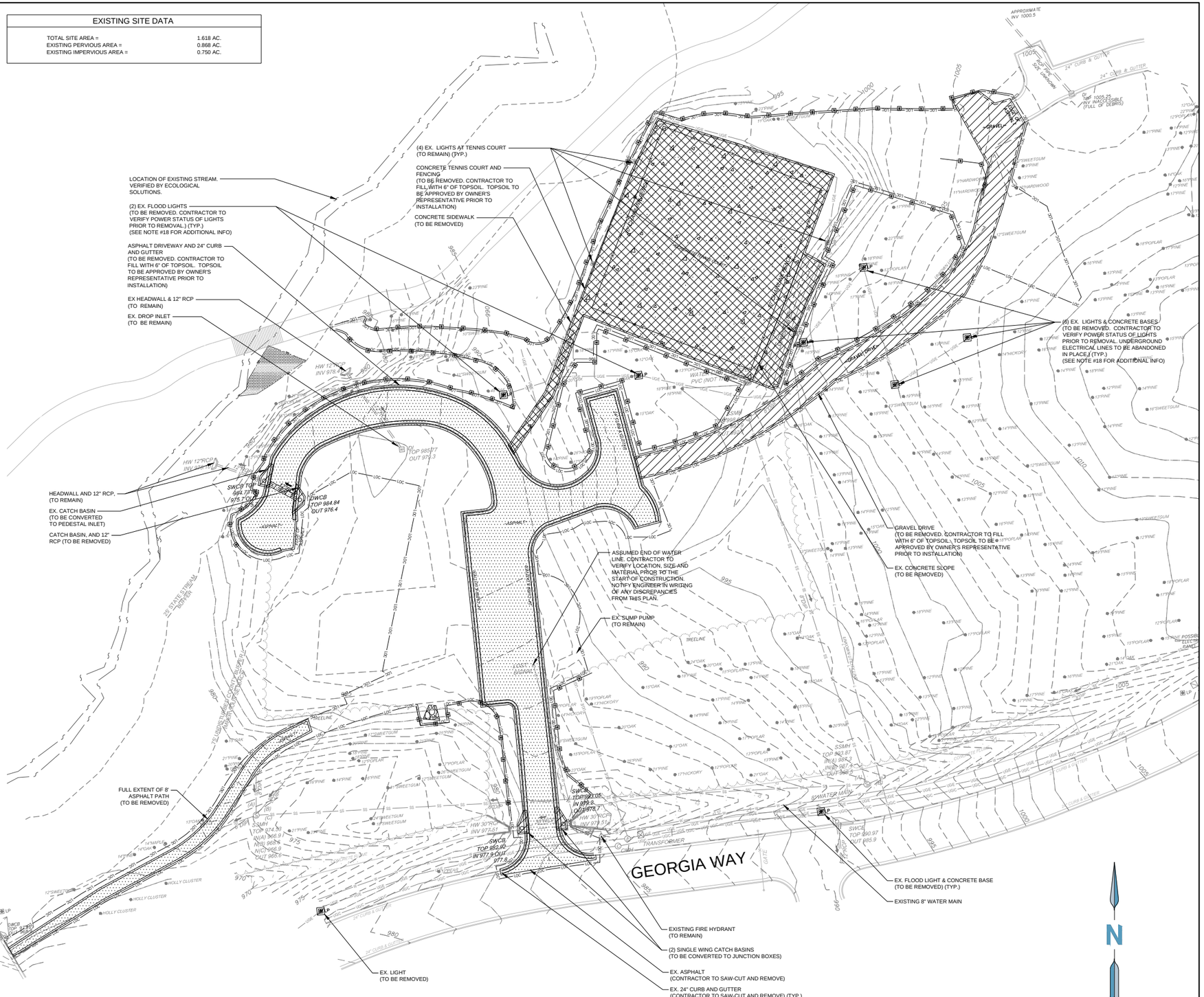
1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.

2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.

3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

EXISTING SITE DATA	
TOTAL SITE AREA =	1.618 AC.
EXISTING PERVIOUS AREA =	0.868 AC.
EXISTING IMPERVIOUS AREA =	0.750 AC.

LEGEND	
	GRAVEL
	BUILDING/CONCRETE TO BE REMOVED
	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
	EXISTING FENCE
	PROPERTY LINE
LOC LOC LOC	LIMITS OF DISTURBANCE
	TREE PROTECTION FENCE
	EXISTING TREE TO BE REMOVED



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DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 030656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

DEMOLITION PLAN

SHEET NUMBER:
C-0

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

GENERAL NOTES:

1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT ARE SHOWN AT THE EDGE OF INDICATED ELEMENT. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS.

2) CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.

3) CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES.

SITE NOTES:

1) TRACT IS ZONED: R-85 (SINGLE-FAMILY RESIDENTIAL)

2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.

3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.

4) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

5) NO OUTSIDE STORAGE IS PROPOSED. THIS INCLUDES SUPPLIES, VEHICLE, EQUIPMENT, PRODUCTS, ETC.

6) SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.

7) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE OWNER, HOWEVER A CONTRACTOR/DEVELOPER CAN DO PERMITTING WITH AGENT AUTHORIZATION.

8) CONSTRUCTION TRAILERS ARE TO BE PERMITTED THROUGH THE ZONING DIVISION OF COMMUNITY DEVELOPMENT.

9) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.

10) MAXIMUM CUT OR FILL SLOPE=2H:1V

11) THE CITY OF DUNWOODY ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE FOR SAID ACT.

12) 24 HOUR CONTACT: BRENT WALKER, (678) 382-6857

13) CONTRACTOR SHALL COORDINATE WITH THE CITY/COUNTY JURISDICTION, WATER AND SEWER JURISDICTION, AND DEPARTMENT OF TRANSPORTATION INSPECTORS REGARDING ALL CERTIFICATE OF OCCUPANCY REQUIREMENTS AND COORDINATE WITH THE ENGINEER APPROXIMATELY 8 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

LEGEND

	CONCRETE SIDEWALK PAVING
	HARDWOOD MULCH TRAIL
	G.A.B. PATH
	TRAFFIC SIGN
	6' CHAINLINK FENCE
	4' CHAINLINK FENCE

SITE DATA

ZONING:	R-85 (SINGLE-FAMILY RESIDENTIAL)
FUTURE LAND USE DESIGNATION:	R-85 (SINGLE-FAMILY RESIDENTIAL)
PARCEL IDENTIFICATION NUMBER:	
TOTAL SITE AREA:	1.62 AC.
PROJECT SITE AREA:	1.62 AC.
DISTURBED AREA:	1.62 AC.
PERVIOUS SURFACE AREA:	1.42 AC.
IMPERVIOUS SURFACE AREA:	0.20 AC.
CANOPIES AND OVERHANGS:	0 S.F.
TOTAL GROUND FLOOR AREA:	210.25 S.F.
FLOOR AREA RATIO MAXIMUM:	20.00 %
FLOOR AREA RATIO PROPOSED:	0.30 %
BUILDING HEIGHT:	15 FT - 3 IN

1 C-1 DOG PARK DIVERTED LEASHING AREA DETAIL
NOT TO SCALE

6' HIGH SINGLE GATE (TYP.) 1 C-6

SIDEWALK TO BE FLUSH WITH EXISTING CONCRETE TRAIL

LOCATION OF EXISTING STREAM AS DETERMINED BY ECOLOGICAL SOLUTIONS STREAM ASSESSMENT AND JURISDICTIONAL DELINEATION FINDINGS

4 C-6 6' BLACK CHAIN-LINK PERIMETER FENCING (TYP.)

TRANSFORMER ON 6'x6' CONCRETE PAD (CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.)

EXISTING SUMP PUMP TO REMAIN

PROPOSED 156.25 SF RESTROOM BUILDING (SEE ARCHITECTURAL PLANS)

MOST DEPENDABLE FOUNTAIN YARD HYDRANT MODEL #MDF24SM AND STAINLESS STEEL BOWL FOR CANINE WATER ACCESS (TYP.)

CONTRACTOR TO GRADE HARDWOOD MULCH PATH FLUSH WITH PROPOSED SIDEWALK (TYP.)

EXISTING CONCRETE FLUME

CONTRACTOR TO SAW-CUT EXISTING PAVEMENT AND TIE INTO EX. CURB AND GUTTER

1 C-6 ACCESSIBLE CURB RAMP (TYP.)

2 C-6 24" CURB & GUTTER (TYP.)

PROPOSED 8' HARDWOOD MULCH PATH. MATERIAL SELECTION TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION

SMALL DOG PARK (0.33 AC.)

LARGE DOG PARK (1.0 AC.)

3 C-6 4' CHAIN LINK FENCE (TYP.)

6' CHAIN LINK FENCE (TYP.) 4 C-6

2 C-6 6' HIGH DOUBLE GATE (TYP.)

DOG PARK DIVERTED LEASHING AREA (TYP.) 1 C-1

POSSIBLE SUMP PUMP

CONCRETE SIDEWALK TO CONNECT FLUSH AND CENTERED WITH EXISTING ASPHALT DRIVEWAY

1 C-6 8' CONCRETE SIDEWALK (TYP.)

WATER HYDRANTS TO BE SURROUNDED BY 3' DEPTH OF GRANITE DUST. MOST DEPENDABLE FOUNTAIN YARD HYDRANT MODEL #MDF24SM AND STAINLESS STEEL BOWL FOR CANINE WATER ACCESS. (TYP.)

TREE SAVE AREA

24" CURB & GUTTER

GEORGIA WAY

N

1" = 30'

30 15 0 30 60

SCALE IN FEET

811 Know what's below Call before you dig

ENGINEER:

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Norcross, GA 30092

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DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK

DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA REGISTERED PROFESSIONAL ENGINEER EMILY S. MADSEN No. PE 030655

11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

SITE & PAVING PLAN

SHEET NUMBER:

C-1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

GENERAL NOTES:

1) ALL SPOT ELEVATIONS SHOWN ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

2) ALL PROPOSED SIDEWALKS SHALL BE BUILT WITH A 1.5% CROSS-SLOPE AWAY FROM THE BUILDING.

3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

SITE NOTES:

1) THE CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT IN STORM WATER CONVEYANCE CHANNELS AND PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

2) COORDINATE WITH THE CITY OF DUNWOODY INSPECTIONS DURING CONSTRUCTION.

3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED.

4) CONSTRUCT EROSION CONTROL BARRIERS PER THE CITY OF DUNWOODY INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.

5) THE CONTRACTOR SHALL RE-ESTABLISH ALL RIGHT OF WAY AREA WHICH IS DAMAGED OR DISTURBED TO ORIGINAL CONDITIONS OR BETTER DURING AUTHORIZED WORK. ALL WORK IN THE CITY OF DUNWOODY RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.

6) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.

7) MAXIMUM CUT OR FILL SLOPES IS 2H:1V

8) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.

9) ALL NON-METALLIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.

10) IN ALL AREAS OF FILL OR OTHERWISE DISTURBANCE OF EXISTING CONDITIONS, UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FULLY AND COMPLETELY REMOVE AND LEGALLY DISPOSE OFF-SITE, ALL PLANT MATERIALS INCLUDING BUT NOT LIMITED TO ROOT SYSTEMS, CONCRETE, REINFORCED CONCRETE, ASPHALT DEBRIS, UNDERBRUSH, TOPSOIL, AND OTHER DELETERIOUS MATERIAL. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING FULL REMOVAL OF THESE MATERIALS.

11) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH: GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, SUBGRADE PREP, AREAS TO RECEIVE FILL, AREAS TO BE OVEREXCAVATED, PAVEMENT SECTIONS, FILL, SLOPES AND EXCAVATION. THE CONTRACTOR SHALL HAVE THIS REPORT ON THE JOB SITE FOR REFERENCE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE EARTHWORK OPERATIONS AND CONSTRUCTION PHASE MONITORING TO ENSURE THAT ALL COMPACTION IS COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE TESTING REPORTS TO THE OWNER REGARDING COMPACTION TESTING PER THE TESTING PROTOCOL IN THE GEOTECHNICAL REPORT.

12) COMPACTION OF ALL FILL MATERIAL BETWEEN THE FRONT AND REAR BUILDING LINES TO BE 95% STANDARD PROCTOR MUST BE CERTIFIED BY GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF CURB. THIS CERTIFICATION WILL BE SUBMITTED TO THE CHIEF DEVELOPMENT INSPECTIONS. LOTS WITH 2' OF FILL OR GREATER, AS DELINEATED ON THE CONSTRUCTION PLANS, WILL REQUIRE A COMPACTION CERTIFICATION PRIOR TO ISSUANCE OF BUILDING PERMIT. THE ENGINEER WILL ALSO PROVIDE A LETTER LISTING THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION. THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION WILL BE INDICATED ON THE FINAL RECORDED PLAT.

13) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. **24 HR. CONTACT: JASON WECKERLY (770) 988-1399**

14) NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PANEL 13089C0016J DATED 05/16/2013

15) EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

16) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER PRIOR TO CONSTRUCTION.

LEGEND

XXXX	EXISTING CONTOURS
XXXX	PROPOSED CONTOURS
	EXISTING STORM PIPE
	PROPOSED STORM PIPE
XXXX.XX	EXISTING SPOT ELEVATION
XXXX.XX	PROPOSED SPOT ELEVATION

EARTHWORK CALCULATIONS

REQUIRED CUT =	+	206	CY
REQUIRED FILL =	-	502	CY
ADDITIONAL CUT FROM CONCRETE BASE =	+	264	CY
ADDITIONAL CUT FROM FOUNDATION =	+	16	CY
BALANCE:		-16	CY

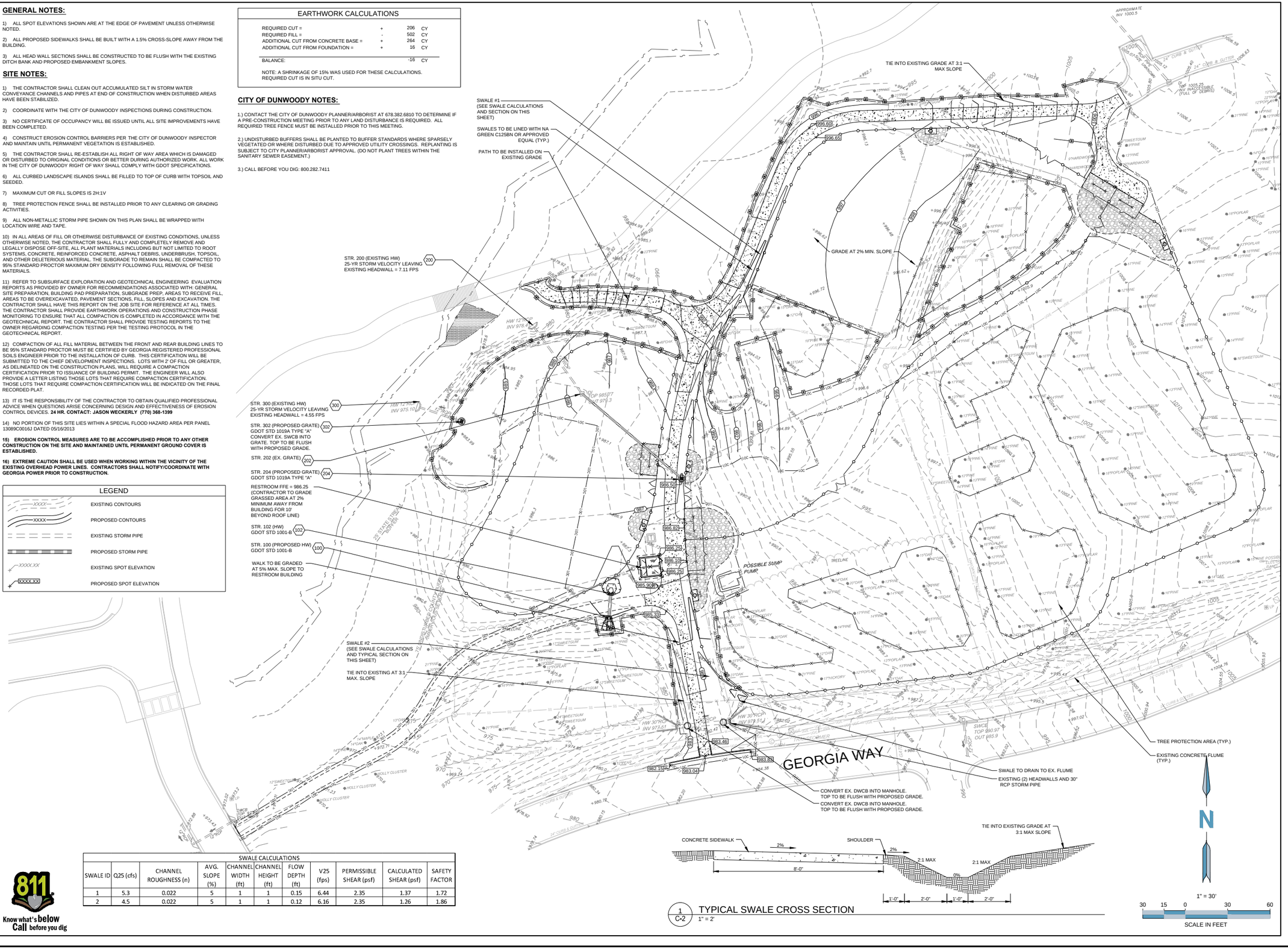
NOTE: A SHRINKAGE OF 15% WAS USED FOR THESE CALCULATIONS. REQUIRED CUT IS IN SITU CUT.

CITY OF DUNWOODY NOTES:

1.) CONTACT THE CITY OF DUNWOODY PLANNER/ARBORIST AT 678.382.6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING.

2.) UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL. (DO NOT PLANT TREES WITHIN THE SANITARY SEWER EASEMENT.)

3.) CALL BEFORE YOU DIG: 800.282.7411



SWALE CALCULATIONS

SWALE ID	Q25 (cfs)	CHANNEL ROUGHNESS (n)	AVG. SLOPE (%)	CHANNEL WIDTH (ft)	CHANNEL HEIGHT (ft)	FLOW DEPTH (ft)	V25 (fps)	PERMISSIBLE SHEAR (psf)	CALCULATED SHEAR (psf)	SAFETY FACTOR
1	5.3	0.022	5	1	1	0.15	6.44	2.35	1.37	1.72
2	4.5	0.022	5	1	1	0.12	6.16	2.35	1.26	1.86

1 / C-2 TYPICAL SWALE CROSS SECTION
1" = 2'

811 Know what's below Call before you dig

ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER BRICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

GRADING & DRAINAGE PLAN

SHEET NUMBER:
C-2

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

UTILITY NOTES:

1) GEORGIA POWER WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO 5" PVC (SCH 80) CONDUITS AND A PULL STRING FROM THE EXISTING ELECTRICAL SERVICE POLE TO THE PROPOSED TRANSFORMER LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING THREE 5" PVC CONDUITS AND SECONDARY WIRING FROM THE TRANSFORMER PAD TO THE PROPOSED BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE POWER SERVICE INSTALLATION AND SHALL COORDINATE WITH THE POWER COMPANY FOR FINAL UNDERGROUND CONDUIT LOCATIONS.

2) COORDINATE AS REQUIRED WITH THE CITY OF DUNWOODY AND DEKALB COUNTY INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.

3) THIS SITE INDICATES POTABLE WATER SERVICE AND SANITARY SEWER LATERALS. GEORGIA STATE LAW REQUIRES THIS WORK TO BE INSTALLED BY AN GEORGIA LICENSED PLUMBER. ALL WORK MUST BE INSPECTED THE CITY OF DUNWOODY CODES AND INSPECTION DEPARTMENT.

4) ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.

5) ALL NON-METALLIC CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.

6) NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.

7) THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS INCLUDING ALL RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, AND PIPE MATERIAL FOR ALL PUBLIC MAINS TO THE ENGINEER AS SOON AS INSTALLATION IS COMPLETE.

8) OWNER SHALL BE RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY IMPROVEMENTS WITHIN THE SANITARY SEWER, WATER, DRAINAGE EASEMENT(S) DUE TO MAINTENANCE OF SEWER, WATER, STORM DRAIN OF THE CITY OF DUNWOODY.

9) PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 2672. PVC WATER LINES 3" AND LARGER SHALL BE AWWA C900, RATED DR 18 (CLASS 150) WITH INTEGRALLY MOLDED BELL ENDS, ASTM D3139. DIP WATER LINES SHALL BE AWWA C151, THICKNESS CLASS 50.

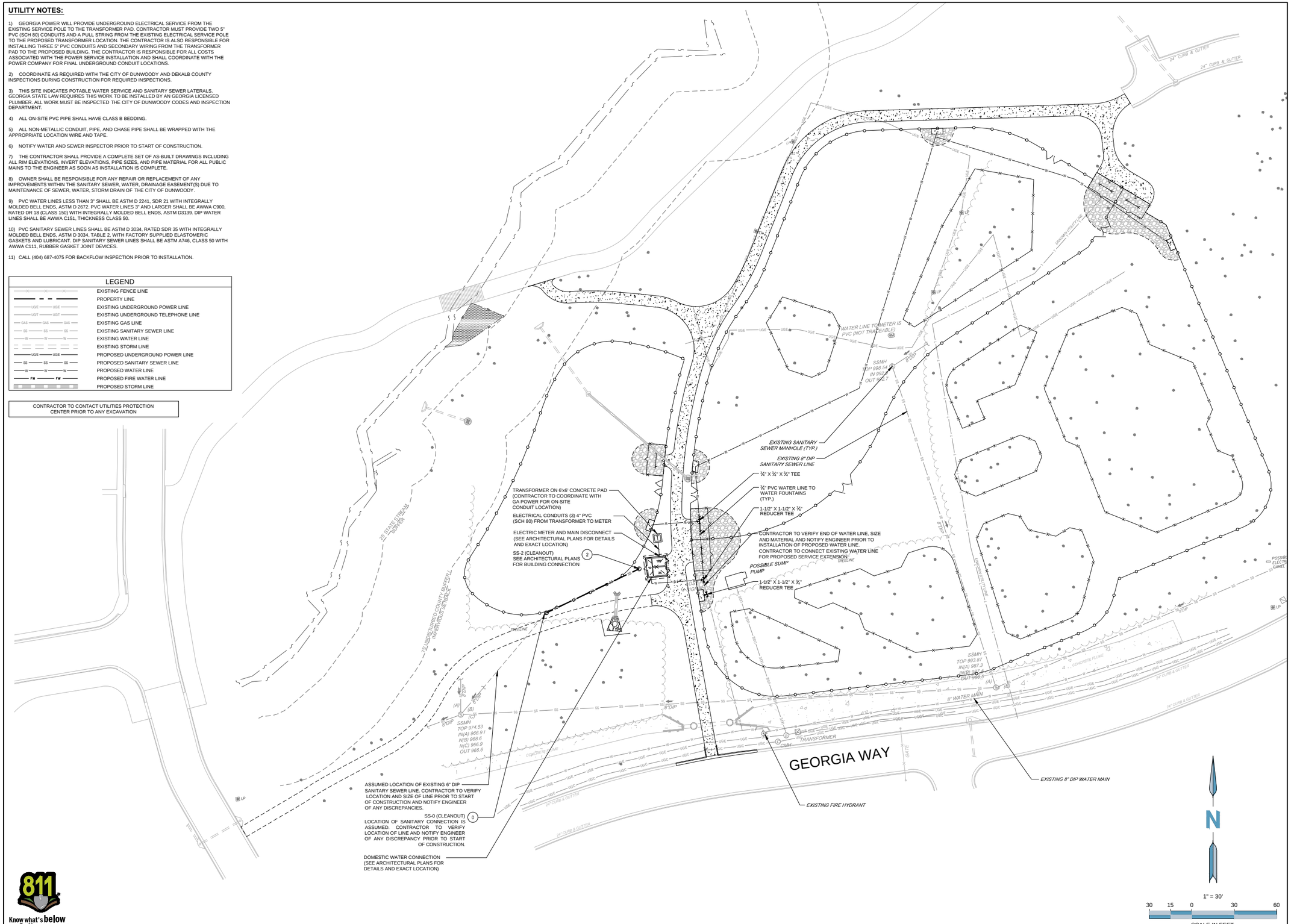
10) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 3034, TABLE 2, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT. DIP SANITARY SEWER LINES SHALL BE ASTM A746, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.

11) CALL (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

LEGEND

- EXISTING FENCE LINE
- PROPERTY LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM LINE
- PROPOSED UNDERGROUND POWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED FIRE WATER LINE
- PROPOSED STORM LINE

CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION



811 Know what's below Call before you dig

ENGINEER:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK

DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

UTILITIES PLAN

SHEET NUMBER:

C-3

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

GENERAL NOTES:

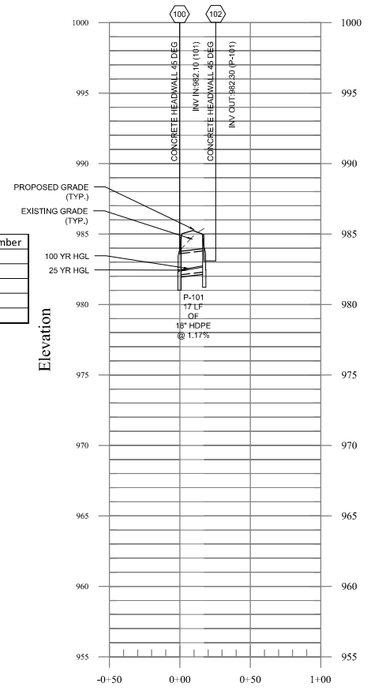
1.) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2.) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

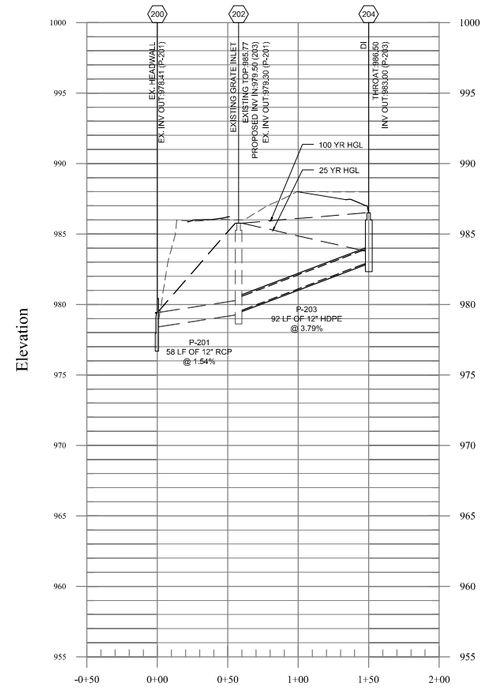
PIPE CHART

ID	Upstream ID	Downstream ID	Size	Slope	Length	Material	Velocity	Flow	Capacity	Contributing Area	Curve Number
			(in)	(%)	(ft)		(ft/s)	(cfs)	(cfs)	(ac.)	
P-101	102	100	18	1.17	17	HDPE	2.91	0.61	7.42	0.10	61
P-201 (EX)	202	200	12	1.54	58	RCP	7.11	5.13	9.03	0.12	61
P-203	204	202	12	3.79	92	HDPE	13.12	8.68	9.03	1.49	63
P-301 (EX)	302	300	12	1.93	31	RCP	4.55	1.26	4.03	0.21	61

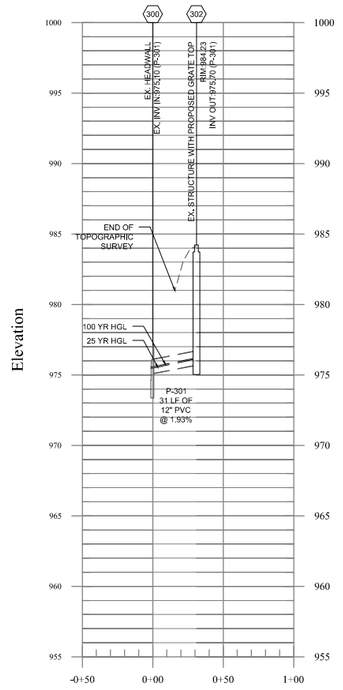
STR. 100 - STR. 102
1" = 50' H, 1"=5' V



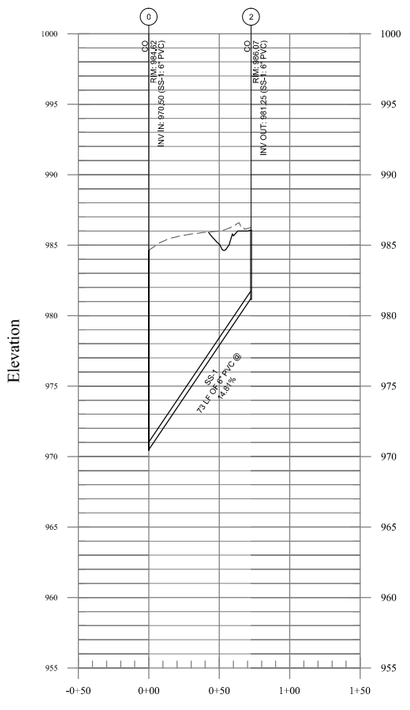
STR. 200 - STR. 204
1" = 50' H, 1"=5' V



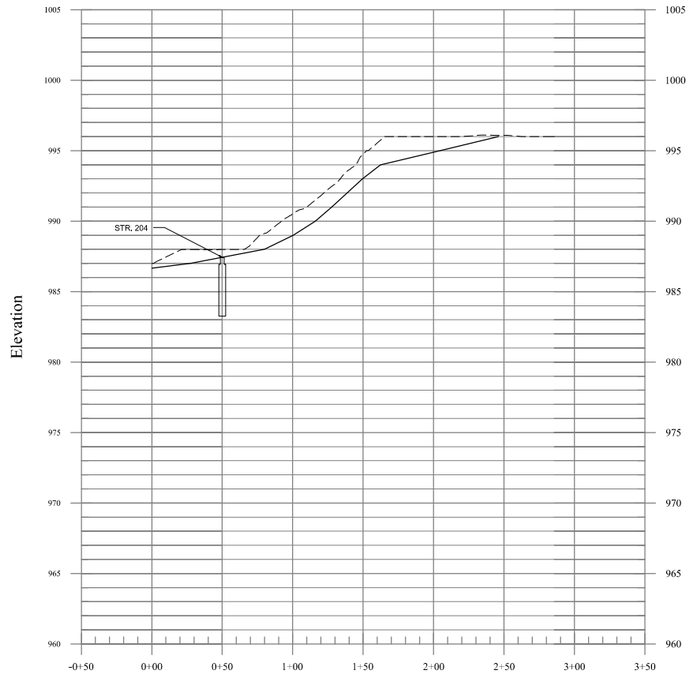
STR. 300 - STR. 302
1" = 50' H, 1"=5' V



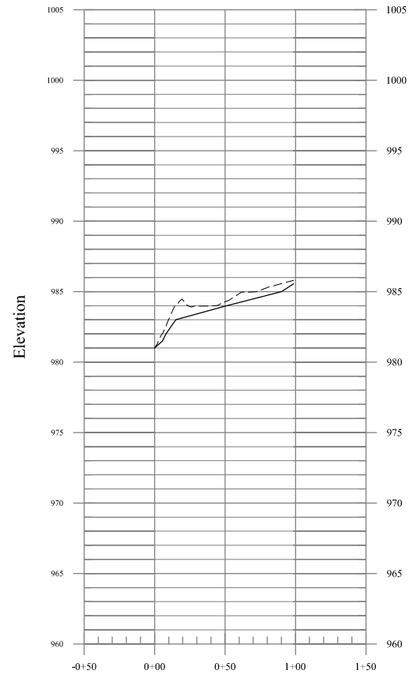
SS-0 - SS-2
1" = 50' H, 1"=5' V



SWALE #1
1" = 50' H, 1"=5' V



SWALE #2
1" = 50' H, 1"=5' V



1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 50'
50 25 0 50 100
HORIZONTAL: SCALE IN FEET

ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	AS SHOWN
TITLE:	

STORM DRAINAGE PROFILES

SHEET NUMBER:
C-3.1

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
487.001

EROSION AND SEDIMENT CONTROL LEGEND

CODE	PRACTICE	DETAIL	MAP SYMBOL
Cd	CHECKDAM		
Co	CONSTRUCTION ENTRANCE		Co
Cw	CONCRETE WASHOUT AREA		
Fr	FILTER RING		Fr
Sd1	SEDIMENT BARRIER		TYPE 'C' SILT FENCE
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		
St	STORM DRAIN OUTLET PROTECTION		St
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3
Ds4	SODDING		Ds4
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	LOC
	SOIL DELINEATION LINE	N/A	
	TREE PROTECTION FENCE	N/A	

** FOR RIPRAP TABLES, SEE SHEET SERIES C-8

CONTRACTOR SHALL NOTIFY ENGINEER UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION.

ANTICIPATED ACTIVITY SCHEDULE

BEGIN CONSTRUCTION - 12/1/2013
END CONSTRUCTION - 6/1/2014

	ACTIVITY	1.0 MTH	2.0 MTH	3.0 MTH	4.0 MTH	5.0 MTH	6.0 MTH
1	INITIAL EROSION CONTROL BMP INSTALLATION						
2	INTERMEDIATE EROSION CONTROL BMP INSTALLATION						
3	FINAL PHASE E&SC PRACTICES						
4	MAINTENANCE OF E&SC PRACTICES						
5	DEMOLITION						
6	CLEARING AND GRUBBING						
7	GRADING						
8	STORM & SANITARY SEWER INSTALLATION						
9	PAVING						
10	BUILDING CONSTRUCTION						
11	TEMPORARY GRASSING						
12	PERMANENT GRASSING						
13	TEMPORARY GRASSING @ 14 DAY INTERVALS						
14	PERMANENT GRASSING @ 30 DAY INTERVALS						
15	FINAL CLEAN UP						

NOTE:
SEE C-8 EROSION CONTROL DETAILS FOR FERTILIZER REQUIREMENTS FOR TURF AND SEED INSTALLATION AND MAINTENANCE INSTRUCTIONS

SOIL TYPE

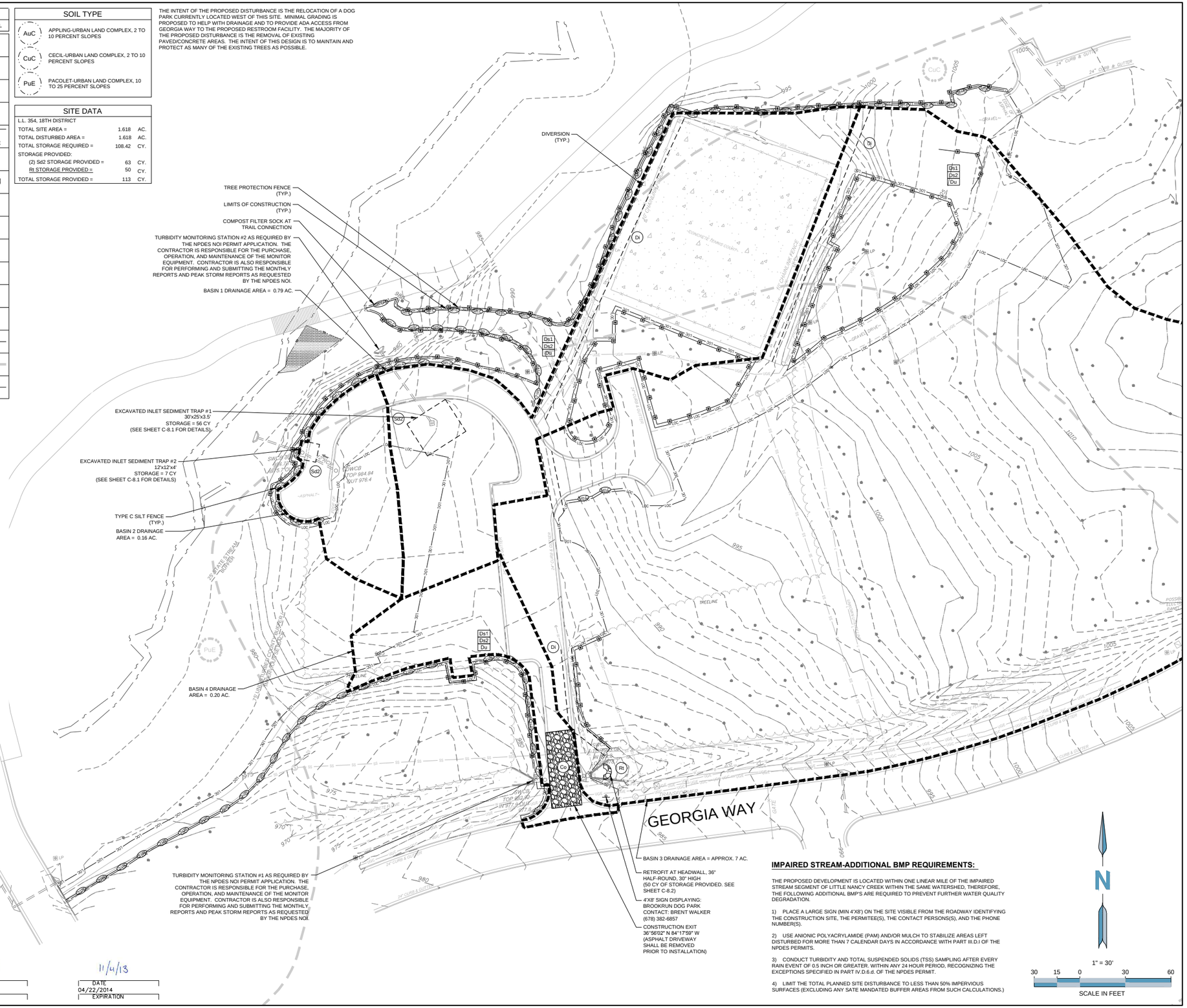
AuC	APPLING-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
CuC	CECIL-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
PuE	PACOLET-URBAN LAND COMPLEX, 10 TO 25 PERCENT SLOPES

SITE DATA

L.L. 354, 18TH DISTRICT

TOTAL SITE AREA =	1.618	AC.
TOTAL DISTURBED AREA =	1.618	AC.
TOTAL STORAGE REQUIRED =	108.42	CY.
STORAGE PROVIDED:		
(2) Sd2 STORAGE PROVIDED =	63	CY.
Rt STORAGE PROVIDED =	50	CY.
TOTAL STORAGE PROVIDED =	113	CY.

THE INTENT OF THE PROPOSED DISTURBANCE IS THE RELOCATION OF A DOG PARK CURRENTLY LOCATED WEST OF THIS SITE. MINIMAL GRADING IS PROPOSED TO HELP WITH DRAINAGE AND TO PROVIDE ADA ACCESS FROM GEORGIA WAY TO THE PROPOSED RESTROOM FACILITY. THE MAJORITY OF THE PROPOSED DISTURBANCE IS THE REMOVAL OF EXISTING PAVED/CONCRETE AREAS. THE INTENT OF THIS DESIGN IS TO MAINTAIN AND PROTECT AS MANY OF THE EXISTING TREES AS POSSIBLE.



IMPAIRED STREAM-ADDITIONAL BMP REQUIREMENTS:

THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED, THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.

1) PLACE A LARGE SIGN (MIN 4'X8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITEE(S), THE CONTACT PERSONS(S), AND THE PHONE NUMBER(S).

2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.I OF THE NPDES PERMITS.

3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER, WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMIT.

4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY SATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS.)

N

1" = 30'
30 15 0 30 60
SCALE IN FEET

Know what's below Call before you dig

SIGNATURE OF ENGINEER
1575
CERTIFICATION #

11/4/13
DATE
04/22/2014
EXPIRATION

ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER KARLA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

INITIAL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:
C-4

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
487.001

EROSION AND SEDIMENT CONTROL LEGEND

CODE	PRACTICE	DETAIL	MAP SYMBOL
Cd	CHECKDAM		
Ce	CONSTRUCTION ENTRANCE		Ce
Cw	CONCRETE WASHOUT AREA		
Fr	FILTER RING		Fr
Sd1	SEDIMENT BARRIER		TYPE "C" SILT FENCE
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		
St	STORM DRAIN OUTLET PROTECTION		St
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3
Ds4	SODDING		Ds4
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	LOC
	SOIL DELINEATION LINE	N/A	
	TREE PROTECTION FENCE	N/A	

** FOR RIPRAP TABLES, SEE SHEET SERIES C-8

NOTE:
SEE C-8 EROSION CONTROL DETAILS FOR FERTILIZER REQUIREMENTS FOR TURF AND SEED INSTALLATION AND MAINTENANCE INSTRUCTIONS

SOIL TYPE

AuC	APPLING-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
CuC	CECIL-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
PuE	PACOLET-URBAN LAND COMPLEX, 10 TO 25 PERCENT SLOPES

SITE DATA

L.L. 354, 18TH DISTRICT		
TOTAL SITE AREA =	1.618	AC.
TOTAL DISTURBED AREA =	1.618	AC.
TOTAL STORAGE REQUIRED =	108.42	CY.
STORAGE PROVIDED:		
(3) Sd2 STORAGE PROVIDED =	127	CY.
RI STORAGE PROVIDED =	50	CY.
TOTAL STORAGE PROVIDED =	177	CY.

10'x10' CONCRETE WASHOUT AREA. WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED

BASIN 6 DRAINAGE AREA = 0.58 AC.

BASIN 4 DRAINAGE AREA = 0.79 AC.

SWALE TO BE LINED WITH Ch-V. REFER TO C-8.3 FOR Ds3 SPECS (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF CONSTRUCTION (TYP.)

STONE CHECKDAM (TYP.)

COMPOST FILTER SOCK AT TRAIL CONNECTION

TURBIDITY MONITORING STATION #2 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

EXCAVATED INLET SEDIMENT TRAP #1 30'x25'x3.5', STORAGE = 56 CY (SEE SHEET C-8.1 FOR DETAILS)

BASIN 1 DRAINAGE AREA = 0.13 AC.

TYPE C SILT FENCE (TYP.)

EXCAVATED INLET SEDIMENT TRAP #2 12'x12'x4', STORAGE = 7 CY (SEE SHEET C-8.1 FOR DETAILS)

BASIN 2 DRAINAGE AREA = 0.15 AC.

EXCAVATED INLET SEDIMENT TRAP #3 45'x25'x2', STORAGE = 64 CY (SEE SHEET C-8.1 FOR DETAILS)

FILTER RING (TYP.)

RIP RAP OUTLET PROTECTION (TYP.)

BASIN 5 DRAINAGE AREA = 0.19 AC.

BASIN 3 DRAINAGE AREA = APPROX. 6 AC.

RETROFIT AT HEADWALL, 36" HALF-ROUND, 30" HIGH (50 CY OF STORAGE PROVIDED. SEE SHEET C-8.2)

4'X8' SIGN DISPLAYING: BROOKRUN DOG PARK CONTACT: BRENT WALKER (678) 382-6857

MAINTAIN CONSTRUCTION EXIT (TYP.)

TURBIDITY MONITORING STATION #1 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

GEORGIA WAY

IMPAIRED STREAM-ADDITIONAL BMP REQUIREMENTS:

THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED, THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.

1) PLACE A LARGE SIGN (MIN 4'X8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITEE(S), THE CONTACT PERSONS(S), AND THE PHONE NUMBER(S).

2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.I OF THE NPDES PERMITS.

3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER. WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMIT.

4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY SATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS.)

N

1" = 30'

30 15 0 30 60

SCALE IN FEET

811 Know what's below Call before you dig

SIGNATURE OF ENGINEER

1575
CERTIFICATION #

11/4/13
DATE

04/22/2014
EXPIRATION

ENGINEER:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

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DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK

DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN

11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

INTERMEDIATE EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:

C-4.1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

EROSION AND SEDIMENT CONTROL LEGEND

CODE	PRACTICE	DETAIL	MAP SYMBOL
Cd	CHECKDAM		
Co	CONSTRUCTION ENTRANCE		Co
Fr	FILTER RING		Fr
Sd1	SEDIMENT BARRIER		TYPE "C" SILT FENCE
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		
St	STORM DRAIN OUTLET PROTECTION		St
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3
Ds4	SODDING		Ds4
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	LOD
	SOIL DELINEATION LINE	N/A	
	TREE PROTECTION FENCE	N/A	

** FOR RIPRAP TABLES, SEE SHEET SERIES C-8

SEDIMENT STORAGE AREAS SHALL BE REMOVED AS FINAL STABILIZATION OF EACH AREA IS OBTAINED

NOTE:
SEE C-8 EROSION CONTROL DETAILS FOR FERTILIZER REQUIREMENTS FOR TURF AND SEED INSTALLATION AND MAINTENANCE INSTRUCTIONS

10'x10' CONCRETE WASHOUT AREA. WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

BASIN 6 DRAINAGE AREA = 0.58 AC.

BASIN 5 DRAINAGE AREA = 0.79 AC.

SWALE TO BE LINED WITH Ch-V. REFER TO C-8.3 FOR Ds3 SPECS (TYP.)

TREE PROTECTION FENCE (TYP.)

LIMITS OF CONSTRUCTION (TYP.)

STONE CHECKDAM (TYP.)

COMPOST FILTER SOCK AT TRAIL CONNECTION

TURBIDITY MONITORING STATION #2 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

TYPE C SILT FENCE (TYP.)

BASIN 1 DRAINAGE AREA = 0.13 AC.

BASIN 2 DRAINAGE AREA = 0.15 AC.

FILTER RING (TYP.)

POSSIBLE SUMP PUMP

BASIN 4 DRAINAGE AREA = 0.19 AC.

RIP RAP OUTLET PROTECTION (TYP.)

BASIN 3 DRAINAGE AREA = APPROX. 6 AC.

4'X8' SIGN DISPLAYING:
BROOKRUN DOG PARK
CONTACT: BRENT WALKER
(678) 382-6857

TURBIDITY MONITORING STATION #1 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

GEORGIA WAY

IMPAIRED STREAM-ADDITIONAL BMP REQUIREMENTS:

THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED, THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.

1) PLACE A LARGE SIGN (MIN 4'X8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITEE(S), THE CONTACT PERSONS(S), AND THE PHONE NUMBER(S).

2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.I OF THE NPDES PERMITS.

3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER. WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMIT.

4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY SATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS.)

N

1" = 30'

30 15 0 30 60

SCALE IN FEET

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SIGNATURE OF ENGINEER — DATE 11/4/13
1575 — 04/22/2014
CERTIFICATION # — EXPIRATION

ENGINEER:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK

DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = 30'
TITLE:	

FINAL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:

C-4.2

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

EROSION CONTROL NOTES:

1) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR CONTACT: **JASON WECKERLY (770) 368-1399. CONTRACTOR SHALL INFORM ENGINEER WHEN CONSTRUCTION BEGINS.**

2) THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

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

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

5) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

6) SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.

7) THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.

8) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.

9) A 25-FOOT UNDISTURBED BUFFER IS TO BE MAINTAINED ADJACENT TO ALL STREAMS.

10) DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION.

11) ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.

12) CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING.

13) THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.

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

15) ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.

16) TOPSOIL SHALL BE STOCKPILED AND USED TO DRESS FINAL GRADES.

17) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13089C0016J DATED 05/16/2013.

18) THE CONTRACTOR WILL CLEAN OUT ACCUMULATED SILT IN THE STORM DRAINAGE PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

19) ALL LOTS WITH WET LAND OR WITHIN A DAM ZONE SHALL BE DENOTED WITH AN ASTERISK.

20) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF DUNWOODY OR EPD OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS AND/OR WHICH MAY IMPACT ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULARITY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.

21) ALL CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATIONS AND PROCEDURES DETAILED IN THE CURRENT DEVELOPMENT REGULATIONS OF THE CITY OF DUNWOODY AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.

22) TWO ROWS OF GA. D.O.T. TYPE C SILT FENCE SHALL BE INSTALLED ADJACENT TO STATE WATERS AND WILL PROTECT STATE WATERS FROM ANY LAND DISTURBING ACTIVITIES.

23) ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS. SEEDS FOR GRASSED AREAS USE THE FOLLOWING MIXTURES.

24) ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION IS COMPLETE.

25) SILT BARRIERS SHALL BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR COUNTY INSPECTORS.

26) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.

27) ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS POSSIBLE AS PER THE SEEDING SCHEDULES AND RATES.

28) ALL OPEN DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP PLACED AS REQUIRED TO PREVENT EROSION.

29) MAXIMUM SLOPES ON CUT OR FILL SECTIONS SHALL NOT EXCEED 2 TO 1.

30) ALL FILL AREAS AND DITCH WORK ON THIS SITE SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR.

31) ALL DRAINAGE STRUCTURES SHALL HAVE RING AND COVER ACCESS.

32) LENGTH OF STORM WATER OUTFALL STRUCTURE RIP-RAP SHALL BE AT LEAST 6 TIMES THE DIAMETER OF THE STORM DRAIN PIPE.

33) WHERE APPLICABLE, EACH INDIVIDUAL LOT BUILDER SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL MEASURES ON THEIR OWN LOT.

34) SECONDARY PERMITTEES SHALL BE RESPONSIBLE FOR RETURNING AREAS DISTURBED DURING THEIR ACTIVITIES TO THE CONDITION PRIOR TO THEIR DISTURBANCE (TO INCLUDE SEEDING, STRAW, OR OTHER PRE-EXISTING BMP CONTROLS APPLIED).

35) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.

36) INSPECTIONS ARE TO BE MADE AFTER EACH RAINFALL EVENT AND SILT ACCUMULATIONS SHALL BE REMOVED FROM ANY SEDIMENT BASINS AND PLACED AT A STABLE LOCATION WHERE IT IS TO BE SEEDED AND MULCHED.

37) SEE EROSION CONTROL DETAIL SHEET FOR EROSION CONTROL DETAILS & SEEDING RATES AND SCHEDULES.

38) RED LINE COMMENTS ON WORKING SETS OF PLANS SHOULD BE MAINTAINED ON SITE FOR ANY CHANGES MADE TO EROSION CONTROL PLAN. COMMENTS SHOULD INCLUDE DATE AND JUSTIFICATION FOR CHANGES.

39) PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ANY MUD, DIRT, OR ROCK TRACKED FROM THE SITE WILL BE CLEANED AS NECESSARY. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.

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

41) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER	11/4/13 DATE
1575 CERTIFICATION #	04/22/2014 EXPIRATION

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GENERAL NOTES:

THIS PLAN INCLUDES, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, AS WELL AS THE FOLLOWING:

1) STRIPPING OF VEGETATION, CUT AND FILL OPERATIONS, AND OTHER DEVELOPMENT ACTIVITIES WILL BE CONDUCTED IN A MANNER SO AS TO MINIMIZE EROSION.

2) DEVELOPMENT PLANS CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.

3) THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSIVE ELEMENTS WILL BE KEPT TO A PRACTICAL MINIMUM. WHENEVER FEASIBLE, NATURAL VEGETATION WILL BE RETAINED, PROTECTED, AND SUPPLEMENTED.

4) DISTURBED SOIL WILL BE STABILIZED AS QUICKLY AS PRACTICABLE.

5) TEMPORARY VEGETATION OR MULCHING WILL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT AT A MINIMUM OF EVERY 7 DAYS IF THE SOIL HAS BEEN LEFT UNDISTURBED.

6) PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES WILL BE INSTALLED AS SOON AS PRACTICABLE.

7) TO THE EXTENT NECESSARY, SEDIMENT IN RUN-OFF WATER WILL BE TRAPPED BY THE USE OF DEBRIS BASINS, SILT FENCE, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.

8) ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.

9) CUTS AND FILLS WILL NOT ENDANGER ADJOINING PROPERTY.

10) FILLS WILL NOT ENCROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.

11) GRADING EQUIPMENT WILL CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED IN ANY CASE THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM.

12) PROVISIONS ARE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS GAR 100001; OR SPECIFIED IN THE GENERAL NPDES PERMIT NUMBER.

13) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR OF EPD 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 HERE A DRAINAGE STRUCTURE OR A ROADWAY STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.

14) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR OF EPD FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS.

15) FOR COMMON DRAINAGE LOCATIONS A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING AT LEAST 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE 67 CUBIC YARDS OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFF-SITE AREAS AND FLOWS FROM ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE LOCATIONS WHERE A TEMPORARY SEDIMENT BASIN PROVIDING AT LEAST 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, SEDIMENT TRAPS, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA. WHEN THE SEDIMENT FILLS TO A VOLUME AT MOST OF 22 CUBIC YARDS PER ACRE FOR EACH DRAINAGE AREA, THE SEDIMENT SHALL BE REMOVED TO RESTORE THE ORIGINAL DESIGN VOLUME. THIS SEDIMENT MUST BE PROPERLY DISPOSED. SEDIMENT BASINS MAY NOT BE APPROPRIATE AT SOME CONSTRUCTION PROJECTS.

16) NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

17) OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL.

18) ALL LOTS AND DEVELOPMENT AREAS SHALL MAINTAIN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

19) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

20) THERE SHALL BE NO ON-SITE STORAGE OF PETROLEUM. MOBILE PETROLEUM TRUCKS SHALL BE USED TO FUEL CONSTRUCTION EQUIPMENT ON-SITE. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

21) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A "QUALIFIED PROFESSIONAL" INSPECT AND REPORT ALL DEFICIENCIES OF ALL EROSION CONTROL MEASURES AT A MINIMUM OF EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT.

22) AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

23) THE DESIGN PROFESSIONAL OR DESIGNEE IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

PERMITTEE REQUIREMENTS FOR INSPECTION:

1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

2) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

4) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

5) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

SAMPLING FREQUENCY:

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

A) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
B) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
B) IN ADDITION TO (1.) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (1.) AND (2.) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND
D) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (1.) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (2.) THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (2.) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (3.) ABOVE.

NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A.) AND (B.) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

1) SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

A) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
B) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. STATE OF GEORGIA PAGE 23 OF 33 DEPARTMENT OF NATURAL RESOURCES PERMIT NO. GAR100001 ENVIRONMENTAL PROTECTION DIVISION.
C) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
D) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
E) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

2) SAMPLING POINTS

A) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
- THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

RETENTION OF RECORDS:

1) THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

A) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
C) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
D) A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
E) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
F) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
G) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.

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

REPORTING OF SAMPLING RESULTS:

1) THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

3) ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A) THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
B) THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
C) THE DATE(S) ANALYSES WERE PERFORMED;
D) THE TIME(S) ANALYSES WERE INITIATED;
E) THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
F) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
G) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
H) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

SEE SHEET SERIES C-4 FOR EROSION AND SEDIMENTATION CONTROL PLANS

WASTE DISPOSAL:

1) WASTE MATERIALS: ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE ES&PC PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. ALL PERSONNEL WILL BE INSTRUCTED CONCERNING WASTE DISPOSAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR THIS INSTRUCTION, AND WILL BE RESPONSIBLE FOR SEEING THAT THESE INSTRUCTIONS ARE FOLLOWED.

2) HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATION AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE O FMSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

3) THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURE IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERTY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

4) A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

5) SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT .

SPILL PREVENTION AND CONTROL NOTES:

1) 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 EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS

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

3) 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. THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING AND THE DISCHARGE OF WASTEWATER FROM WASHOUT AND CLEANOUT STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS IS PROHIBITED.

4) AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB

5) ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS.

6) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL

7) SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER

8) WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER

9) MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED

10) THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

11) THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

A) PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
B) ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
C) IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

12) MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

13) MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IT NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

14) SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

15) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

16) THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

17) SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

18) THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RE-OCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

19) THE CONTRACTOR RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. ANY SPILL SHALL BE REPORTED TO HIM FOR IMMEDIATE ACTION AS SOON AS THE SPILL IS DISCOVERED.

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

21) BUILDING MATERIALS-NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

22) 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.

23) FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HRS., 1-800-426-2675.

24) FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

25) 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.

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 COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

SITE DETAILS:

1) NATURE OF THE CONSTRUCTION ACTIVITY = DEMOLITION AND DOG PARK DEVELOPMENT

2) CONSTRUCTION SCHEDULE = SEE G-1

3) TOTAL AREA OF THE SITE = 1.618 ACRES

4) TOTAL DISTURBED AREA OF THE SITE = 1.618 ACRES

5) PRE-DEVELOPMENT CURVE NUMBER = 63.5

6) POST-DEVELOPMENT CURVE NUMBER = 56.9

7) EXISTING TOPOGRAPHIC MAP = SEE SHEET SERIES V-1

8) PLAN INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES = SEE SHEET C-2

9) PLAN INDICATING AREAS OF SOIL DISTURBANCE = SEE SHEET SERIES C-2

10) SEE SHEET SERIES C-4 FOR ALL STRUCTURAL AND NONSTRUCTURAL BMP'S.

11) IDENTIFICATION OF RECEIVING WATER(S) = TRIBUTARY OF NANCY CREEK

12) APPENDIX B RATIONALE

A) TYPE OF STREAM = WARM WATER
B) SURFACE DRAINAGE AREA = 0-4.99
C) NTU ALLOWED VALUE = 75

13) BUFFERED STATE WATERS PRESENT ON SITE = NO KNOWN STATE WATERS WITHIN 200 FT OF SITE

14) WETLAND ACREAGE AT THE SITE = 0 ACRES OF KNOWN WETLANDS

15) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13089C0016J DATED 05/16/2013

16) NAMES AND ADDRESSES OF ALL SECONDARY PERMITTEES = N/A

17) DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE = SEE SHEET SERIES C-4

ENGINEER:
FORESITE group
Foresite Group, Inc.
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Suite 240
Norcross, GA 30092
o | 770.368.1399
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w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 034656 PROFESSIONAL ENGINEER ERICA S. MADSEN
11/04/13

REVISIONS	DATE

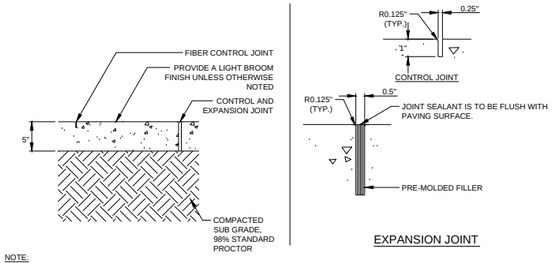
PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = ----'

TITLE:
EROSION CONTROL NOTES

SHEET NUMBER:
C-4.3

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

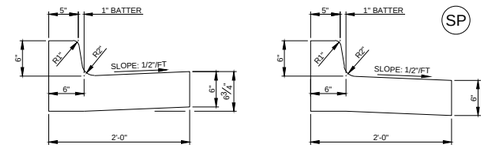
JOB/FILE NUMBER:
487.001



EXPANSION JOINT

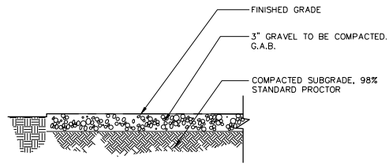
NOTE:
1. UNLESS OTHERWISE INDICATED, PREFORMED EXPANSION JOINTS TO BE 40'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
2. UNLESS OTHERWISE INDICATED, CONTROL JOINTS AT 5'-0' O.C.
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1/4" PER FT.

1 / C-5 CONCRETE SIDEWALK
NOT TO SCALE



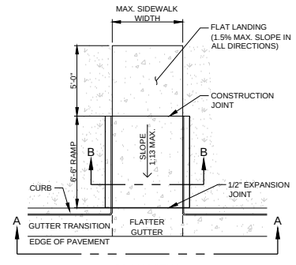
NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

2 / C-5 24" CONCRETE CURB AND GUTTER
NOT TO SCALE

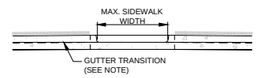


SEE STAKING PLAN FOR WIDTH OF PATH

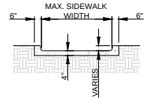
3 / C-5 GRAVEL PAD SECTION
NOT TO SCALE



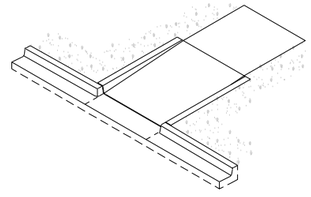
PLAN VIEW



SECTION A-A



SECTION B-B



NOTE:
IN AREAS WHERE THE GUTTER HAS A SLOPE EXCEEDING 4.5% END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLATTER GUTTER (4.5% SLOPE MAX.) NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP

4 / C-5 ACCESSIBLE CURB RAMP
NOT TO SCALE

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11/04/13

REVISIONS	DATE

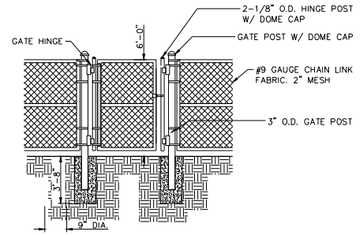
PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	AS SHOWN

TITLE:
PAVING DETAILS

SHEET NUMBER:
C-5

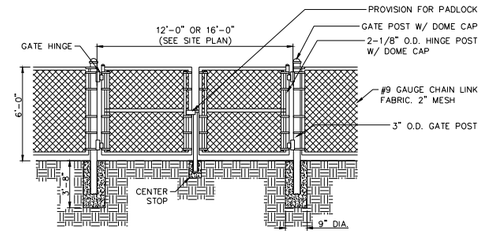
COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
487.001



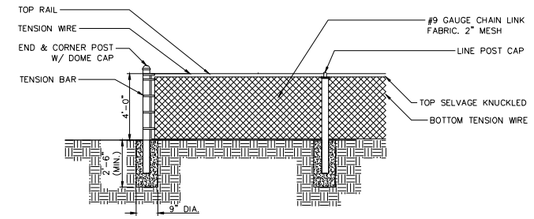
NOTE: SEE SITE PLAN FOR LOCATION OF GATES

1 C-6 6' HIGH SINGLE GATE
NOT TO SCALE 1" = X'



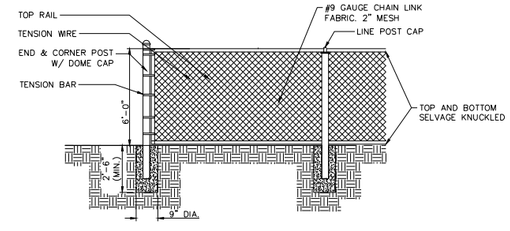
NOTE: SEE SITE PLAN FOR LOCATION OF GATES

2 C-6 6' HIGH DOUBLE GATE
NOT TO SCALE 1" = X'



NOTE: FENCING FABRIC TO BE KNUCKLED AT TOP AND BOTTOM WHERE FENCE IS OVER A PAVED SURFACE. ELEVATION SHALL BE FLUSH WITH PAVING. FENCE FABRIC SHALL BE INSTALLED ON THE INSIDE OF ALL POSTS.

3 C-6 4' HIGH CHAINLINK FENCING
NOT TO SCALE 1" = X'



NOTE: FENCING FABRIC TO BE KNUCKLED AT TOP AND BOTTOM WHERE FENCE IS OVER A PAVED SURFACE. ELEVATION SHALL BE FLUSH WITH PAVING. FENCE FABRIC SHALL BE INSTALLED ON THE INSIDE OF ALL POSTS.

4 C-6 6' HIGH CHAINLINK FENCING
NOT TO SCALE 1" = X'

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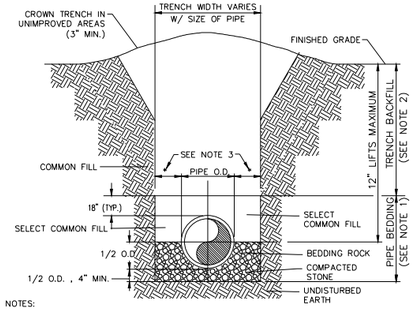
SCALE:	AS SHOWN
TITLE:	

CONSTRUCTION DETAILS

SHEET NUMBER:
C-6

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
487.001



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.

2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.

3. (*): 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX (12" MIN.)FOR PIPE DIAMETER 24" AND LARGER.

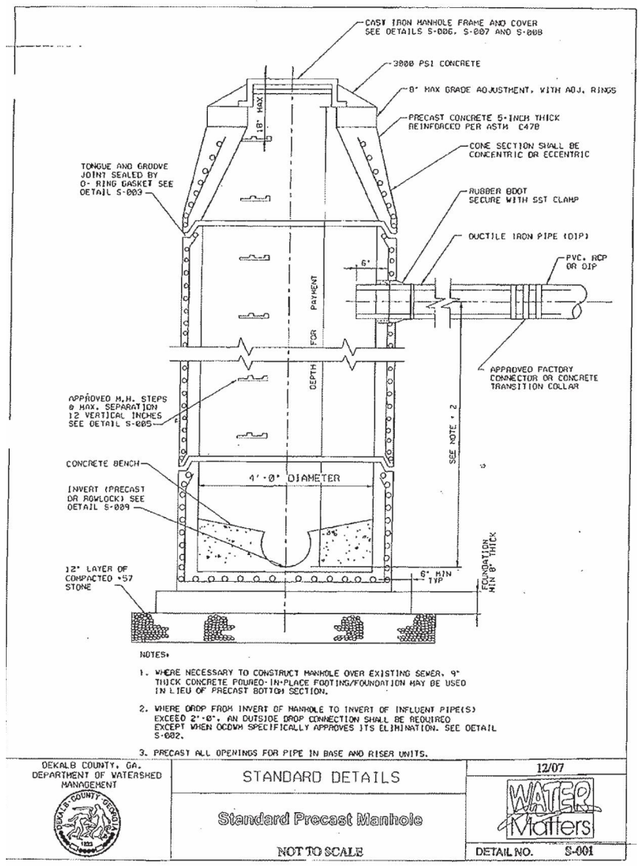
4. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.

5. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.

6. REFER TO THE SECTION OF THE ALDOT STANDARDS FOR SHEETING AND BRACING IN EXCAVATIONS.

7. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. A CERTIFIED GEOTECHNICAL ENGINEER SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

1 / C-7 CLASS B BEDDING AND TRENCHING DETAIL
NOT TO SCALE



NOTES:

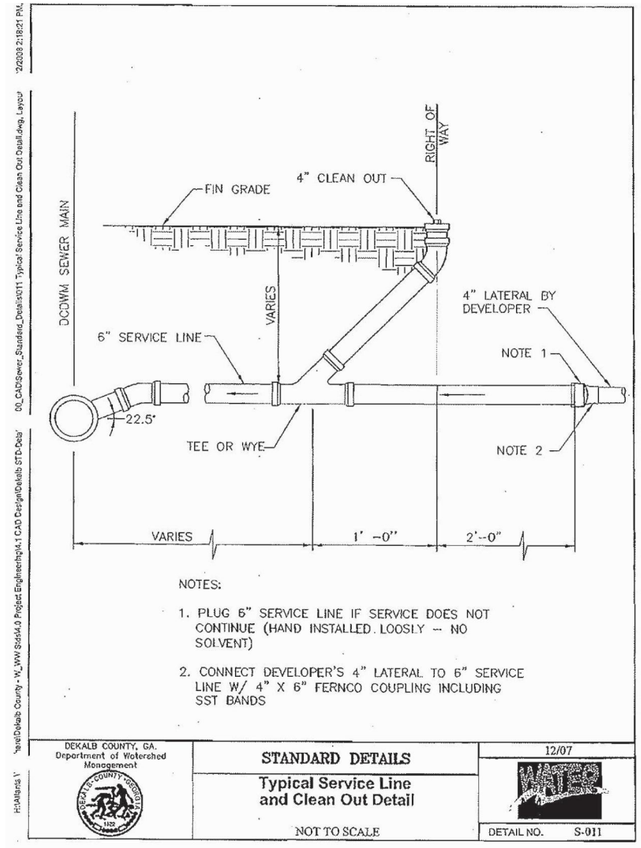
1. WHERE NECESSARY TO CONSTRUCT MANHOLE OVER EXISTING SEWER, 9" THICK CONCRETE POURED-IN-PLACE FOOTING/FOUNDATION MAY BE USED IN LIEU OF PRECAST BOTTOM SECTION.

2. WHERE DROP FROM INVERT OF MANHOLE TO INVERT OF INFLUENT PIPE(S) EXCEED 2'-0", AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED EXCEPT WHEN DCDWM SPECIFICALLY APPROVES ITS ELIMINATION. SEE DETAIL S-002.

3. PRECAST ALL OPENINGS FOR PIPE IN BASE AND RISER UNITS.

DEKALB COUNTY, GA. DEPARTMENT OF WATERSHED MANAGEMENT	STANDARD DETAILS	12/07
	Standard Precast Manhole	DETAIL NO. S-001
	NOT TO SCALE	

2 / C-7 SANITARY MANHOLE
NOT TO SCALE



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

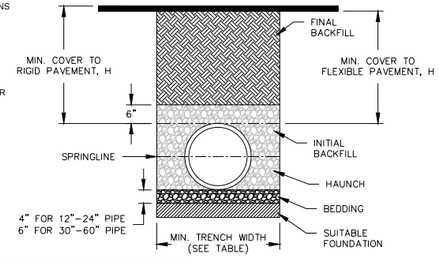
DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS	12/07
	Typical Service Line and Clean Out Detail	DETAIL NO. S-011
	NOT TO SCALE	

3 / C-7 CLEANOUT
NOT TO SCALE

MINIMUM RECOMMENDED COVER BASED ON LOADING CONDITIONS

	SURFACE LIVE LOADING CONDITION	
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

4 / C-7 HDPE BEDDING DETAIL
NOT TO SCALE

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SCALE:	AS SHOWN
TITLE:	

UTILITIES DETAILS

SHEET NUMBER:
C-7

COMMENTS:
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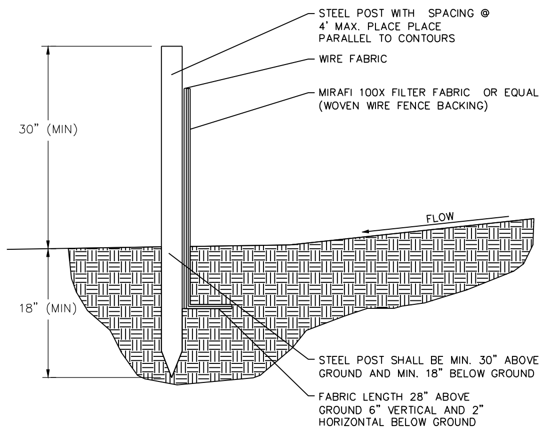
JOB/FILE NUMBER:
487.001

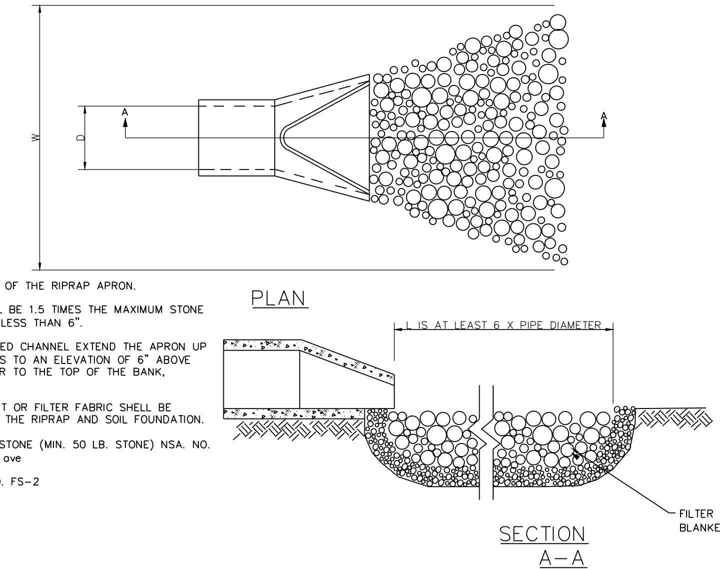


NOTE:

1. FENCE SHALL BE WIRE REINFORCED.

Sd1-C SILT FENCE DETAIL – TYPE C

NOT TO SCALE



NOTES:
1. L IS THE LENGTH OF THE RIPRAP APRON.

2. THICKNESS SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".

3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE TOP OF PIPE OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.

4. A FILTER BLANKET OR FILTER FABRIC SHELL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

5. GRADED RIPRAP STONE (MIN. 50 LB. STONE) NSA. NO. R-4 – 12" mix. 6" ave

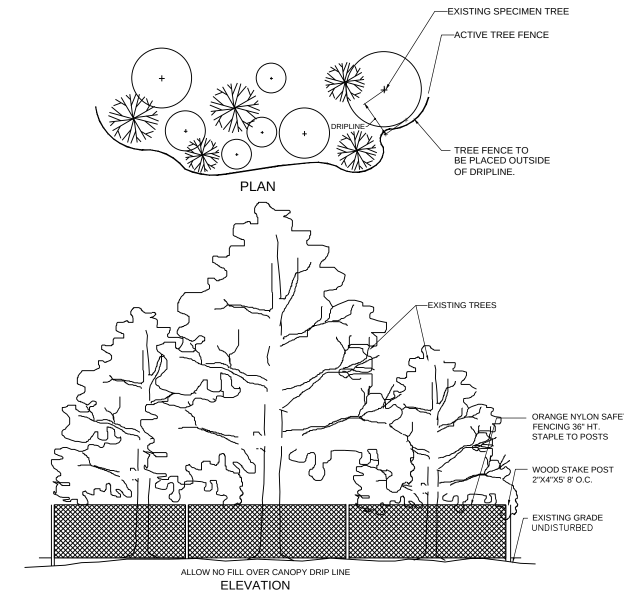
6. FILTER STONE NO. FS-2

Rip-Rap Apron Summary

Headwall ID	Pipe Diameter, D0 (in)	25-year Q (cfs)	25-year Velocity (ft/sec)	Rip-Rap Size d50	Initial Apron width (ft)	Apron Length, La (ft)	Apron Width, W (ft)
100	18	0.6	4.2	0.5	4.5	9	10.5

St RIP RAP

NOT TO SCALE



1/C-8 TREE SAVE FENCE DETAIL

NOT TO SCALE

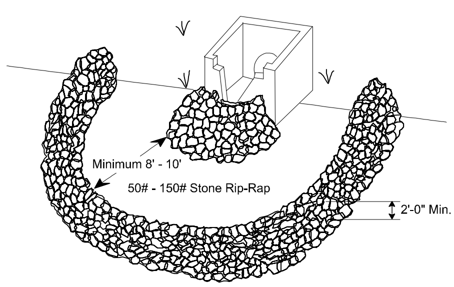
Table 6-5.1. Fertilizer Requirements

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

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

2/C-8 FERTILIZER APPLICATION TABLE

NOT TO SCALE

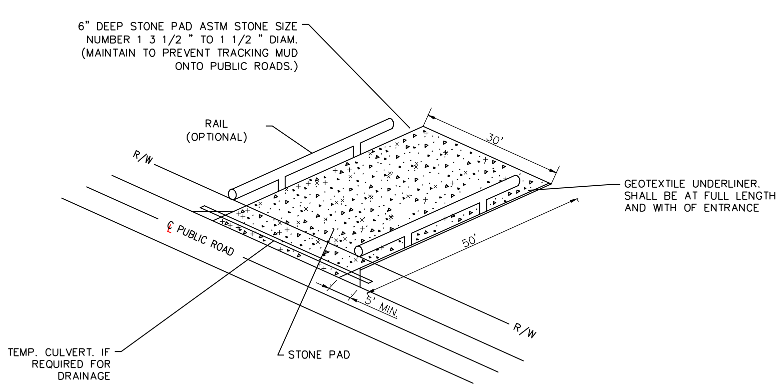


STONE FILTER RING

Figure 6-15.1

Fr STONE FILTER RING

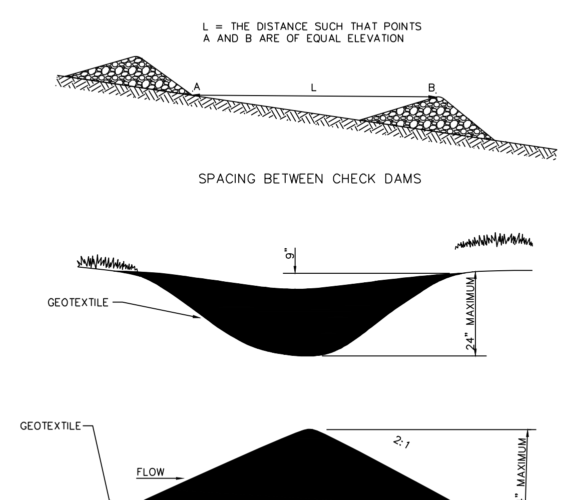
NOT TO SCALE



NOTE: THE CONSTRUCTION EXIT PAD SHALL BE AT LEAST 50 FEET IN LENGTH, SHALL OCCUPY THE FULL WIDTH OF VEHICLE EGRESS, AND SHALL BE COMPLETELY UNDERLAIN BY SUITABLE GEOTEXTTILE.

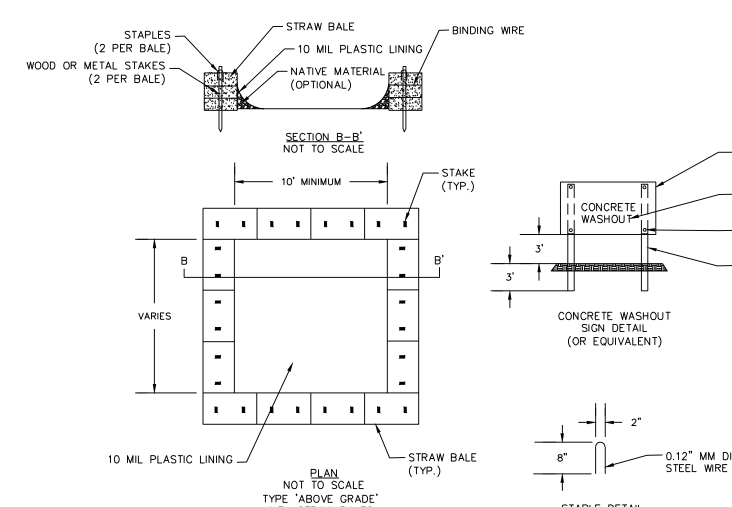
Co TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE



Cd-S STONE CHECK DAM

NOT TO SCALE



NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Cw CONCRETE WASH DETAIL

NOT TO SCALE

[illegible] 11/4/13

SIGNATURE OF ENGINEER | DATE

1575 | 04/22/2014

CERTIFICATION # | EXPIRATION

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11/04/13

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PROJECT MANAGER: JVW

DRAWING BY: NJP

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DATE: 9 AUGUST 2013

SCALE: AS SHOWN

TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER: C-8

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

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

SPECIES	BROADCAST RATES 1/ - PLS 2/ PER ACRE	PER 1000 SQ. FT.	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES DOTTED LINES INDICATE PERMISSIBLE BUT OPTIONAL DATES) J F M A M J J A S O N D	REMARKS
BARLEY (HORDEUM VULGARE)			M-L P C		14,000 SEED PER POUND. WINTER HARDY USE ONLY ON PRODUCTIVE SOILS.
ALONE	3 BU. (144 LBS.)	3.3 LB			
IN MIXTURES	1/2 BU. (24 LBS.)	0.6 LB			
LESPEDEZA, ANNUAL (LEZPEDEZA STRIADA)			M-L P C		200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULATE EL.
ALONE	40 LBS	0.9 LB			
IN MIXTURES	10 LBS	0.2 LB			
LOVEGRASS, WEEPING (ERAGROSTIS BURVULA)			M-L P C		1,500,000 SEED PER POUND. MAY LAST SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
ALONE	4 LBS	0.1 LB			
IN MIXTURES	2 LBS	0.5 LB			
MILLET, BROWNTOP (PANICUM FASCICULATUM)			M-L P C		137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO COMPETITION IN MIXTURES IF SEEDED AT HIGH RATE.
ALONE	40 LBS	0.9 LB			
IN MIXTURES	10 LBS	0.2 LB			
MILLET, PEARL (PENNESETUM GLAUCUM)			M-L P C		88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
ALONE	50 LBS	1.1 LB			
IN MIXTURES					
OATS (AVENA SATIVA)			M-L P C		13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
ALONE	4 BU. (128 LBS.)	2.9 LB			
IN MIXTURES	1 BU. (32 LBS.)	0.7 LB			
RYE (SECALE CEREALE)			M-L P C		18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
ALONE	3 BU. (168 LBS.)	3.9 LB			
IN MIXTURES	1/2 BU. (28 LBS.)	0.6 LB			
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM)			M-L P C		227,000 SEED PER LB. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
ALONE	40 LBS	0.9 LB			
SUDANGRASS (SORGHUM SUDANESE)			M-L P C		55,000 SEED PER LB. GOOD ON DROUGHT SITES AND IS NOT TO BE USED IN MIXTURES.
ALONE	60 LBS	1.4 LB			
TRITICALE (X-TRITICOSECALE)			C		USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
ALONE	3 BU. (144 LBS.)	3.3 LB			
IN MIXTURES	1/2 BU. (24 LBS.)	0.6 LB			
WHEAT (TRITICUM AESTIVUM)			M-L P C		15,000 SEED PER POUND. WINTERHARDY
ALONE	3 BU. (180 LBS.)	4.1 LB			
IN MIXTURES	1/2 BU. (30 LBS.)	0.7 LB			

1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY.
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED.
4/ M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK HILLS; BLACK LANDS; AND ATLANTIC COASTAL FLATWOODS MLRA'S

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

MULCHING WITHOUT SEEDING
THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE ESTABLISHED WITH A MULCH COVER.

SITE PREPARATION
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS
SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

1. DRY STRAW OR HAY SHALL BE APPLIED AT THE DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR ¾ GALLON PER SQ. YD.).
4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH
WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCH.
3. 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.
4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH
1. 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 DISKS SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
2. STRAW OR HAY MULCH SPREAD WITH THE SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION 7B – TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
3. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE PIECES.
4. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER.

DRY STRAW OF 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 1 1/2 TONS PER ACRE.

APPLYING MULCH
STRAW OR HAY MULCH SHALL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. 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.

ANCHORING MULCH
STRAW OR HAY MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE 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 DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

FERTILIZER REQUIREMENTS

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC 1000 LBS./AC 400 LBS./AC	50-100 LBS/AC 1/2/ -- 30
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC 1000 LBS./AC 400 LBS./AC	0-50 LBS/AC 1/ -- --
3. GRAOUD COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300 LBS./AC 3/ 1300 LBS./AC 3/ 1100 LBS./AC	-- -- --
4. PINE SEEDLINGS	FIRST	20-10-15	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	--
5. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700 LBS./AC 700 LBS./AC 4/	--
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS./AC	30 LBS/AC 5/
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC 800 LBS./AC 400 LBS./AC	50-100 LBS/AC 2/6/ 50-100 LBS/AC 2/ 30 LBS/AC
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC 1000 LBS./AC 400 LBS./AC	50-100 LBS/AC 6/

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

LIME AND FERTILIZER RATES AND ANALYSIS

AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TEST INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATION OF THE FLORIDA DEPARTMENT OF AGRICULTURE.

LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE." GROUND LIMESTONE IS CALCTIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50-MESH SIEVE, AND NOT LESS THAN 5% WILL PASS THROUGH A 100-MESH SIEVE. IT IS RECOMMENDABLE TO USE CALCITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN AND ATLANTIC COAST FLATWOODS MLRA'S. (SEE FIGURE 6-4.1 MANUAL FOR EROSION & SEDIMENTATION CONTROL).

AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED.

11/4/13
SIGNATURE OF ENGINEER — DATE
1575 — 04/22/2014
CERTIFICATION # — EXPIRATION

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

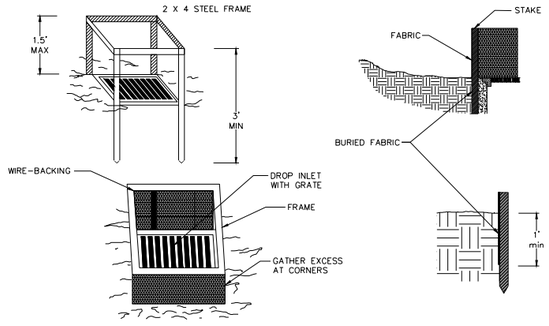
If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area =** 0.79 **ac**
2. **Required sediment storage = 67** cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.79 ac
   Required sediment storage = 53 cy = 1431 cf
3. **Assume excavation depth (minimum of 1.5 ft) =** 3.5 **ft**
4. **Assume slope of sides (shall not be steeper than 2:1) =** 2 :1
5. **Determine required surface area**
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 53 cy / 3.5 ft
   SA_{min} = 409 **sf**
6. **Assume shape of excavation and determine dimensions.**
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: SQUARE
   Dimensions: l = 30 **ft w =** 25 **ft diameter *(if applicable)* =** N/A **ft**

STORAGE PROVIDED = 56 CY

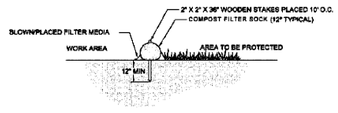
Provide a detail **showing the depth, length and width, or diameter *(if applicable)*,** and side slopes of the excavation.

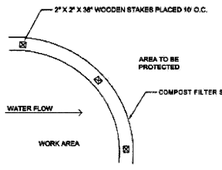
EXCAVATED Sd2–F #1 CALCULATION



1. FOR STAKES, USE STEEL WITH A MINIMUM LENGTH OF 3 FEET.
2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, MINIMUM OF 18 INCHES DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH CRUSHED STONE OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

Sd2–F SEDIMENT TRAP
NOT TO SCALE





COMPOST FILTER SOCK
NTS

Sd1 Sd1–CFS COMPOST FILTER SOCK
NOT TO SCALE

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 =** 0.16 **ac**
2. **Required sediment storage = 67** cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.16 ac
   Required sediment storage = 10.7 cy = 717 cf
3. **Assume excavation depth (minimum of 1.5 ft) =** 4 **ft**
4. **Assume slope of sides (shall not be steeper than 2:1) =** 2 :1
5. **Determine required surface area**
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 10.7 cy / 4 ft
   SA_{min} = 179.3 **sf**
6. **Assume shape of excavation and determine dimensions.**
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: SQUARE
   Dimensions: l = 12 **ft w =** 12 **ft diameter *(if applicable)* =** N/A **ft**

STORAGE PROVIDED = 7 CY

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

EXCAVATED Sd2–F #2 CALCULATION

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 =** 0.79 **ac**
2. **Required sediment storage = 67** cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.79 ac
   Required sediment storage = 53 cy = 1431 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_{min} = Required sediment storage / excavation depth
   SA_{min} = 53 cy / 2 ft
   SA_{min} = 715.5 **sf**
6. **Assume shape of excavation and determine dimensions.**
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGLE
   Dimensions: l = 45 **ft w =** 25 **ft diameter *(if applicable)* =** N/A **ft**

STORAGE PROVIDED = 64 CY

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

EXCAVATED Sd2–F #3 CALCULATION

Sd2–F EXCAVATED INLET SEDIMENT TRAP CALCULATIONS

Rt Calculations	
Disturbed Area Draining to Pond (acres):	1.30
1. Required Stormwater Storage (C.Y.):	0
2. Required Sediment Storage (C.Y.):	87
3. Total required storage (C.Y.) = 1+2 :	87
4. Avaliable Storage (C.Y.):	50
5. Is the avaliable storage (4) greater than the total required storage (3)?	NO
6. If "no", the sidement storage capacity of the pond must be increased. Choose the method to be used:	
Raise Inv. Of outlet structure	
Undercut the pond	
Other	
7. Clean-out elevation:	981.8
8. Is the length-width ratio 2:1 or greater?	Yes
9. If "no", the length of flow must be increased.	
Choose method to be used:	
Baffles	
Other	
Dia. and Height of half-round CMP retrofit to be used:	
Diameter (in)	30
Height (ft)	4

Rt RETROFIT CALCULATIONS

ENGINEER:
FORESITE group
Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:
BROOK RUN DOG PARK
DESIGN DEVELOPMENT
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:
GEORGIA REGISTERED No. PE 030656 PROFESSIONAL ENGINEER ERICA S. MADDEN
11/04/13

REVISIONS — DATE

PROJECT MANAGER: JVW
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 9 AUGUST 2013
SCALE: AS SHOWN
TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:
C-8.1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 487.001

1.) PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE, AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.

2.) IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION.

3.)ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678.382.6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION

4.) CONTACT THE CITY OF DUNWOODY PLANNER/ARBORIST AT 678.382.6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING.

5.) UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL. (DO NOT PLANT TREES WITHIN THE SANITARY SEWER EASEMENT.)

6.) CALL BEFORE YOU DIG: 800.282.7411

PAYMENT FOR GRASSING

Seeded and sodded lawns will be acceptable provided the conditions of Section 02900 have been met, including maintenance, and a healthy, uniform, close stand of grass is established, free of: bare spots in excess of 6 inches square and surface irregularities.

Payment for seeding will be paid at 50% of the total contract amount for seeding until germination and grow-in of permanent grassing has achieved 95% on all areas to be seeded. Payment will be increased to 90% after 95% grow-in has been achieved. Final payment, and payment of retainage, will be made only after 100% grow-in has been achieved. Permanent seeding may only take place seasonally as listed in the Manual for Erosion and Sediment control in Georgia tables for permanent seeding region M-L. If the permanent Bermuda grass seeding cannot be installed during the specified dates, the contractor, at no additional expense to the owner, shall install temporary seeding and maintain temporary cover until the next season for permanent seeding. In areas where seeding was installed at the proper time per the Manual for Erosion and Sediment Control in Georgia and less than full coverage is achieved per the requirements of the Section 02900, which would prevent the owner from opening the facility to the public before the next planting season, the contractor will sod all areas that do not have full coverage – at no cost to the owner. Temporary seeding in high pedestrian traffic areas will not be permitted for facilities that are to open before the next growing season. These areas must be sodded at no cost to the owner.

Final payment and release of retainage will not be made until establishment of grass over 100% of the project is acceptable to the County.

Know what's below
Call before you dig

ENGINEER:

FORESITE group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK

DESIGN DEVELOPMENT

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA REGISTERED No. LA001141 LANDSCAPE ARCHITECT JASON VAIL WECKERLY

[illegible]

11/04/13

REVISIONS	DATE

PROJECT MANAGER:	JVW
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	9 AUGUST 2013
SCALE:	1" = ----'

TITLE:

LANDSCAPE PLAN

SHEET NUMBER:

L-1

COMMENTS:

NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:

487.001