# DEVELOPMENT PLANS
# FOR
# 4860 ADAMS ROAD

LAND LOT
353 & 360
DISTRICT
18TH
PARCEL ID
18-360-01-041

# CITY OF DUNWOODY
# DEKALB COUNTY, GEORGIA

| ISSUE | | | | |
|---|---|---|---|---|
| NO. | DESCRIPTION | DATE | BY | APPR. |
| 1 | CITY COMMENTS | 8/2/16 | MM | MM |

DATE: AUGUST 29, 2016 SHEET 1


DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000


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

SWCD:______________________

Project Name:___4860 ADAMS ROAD____________ Address:______4860 ADAMS ROAD______________

City/County:___DUNWOODY/DEKALB COUNTY______ Date on Plans:______________________

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

| Map Scale | Ground Slope | Contour Intervals, ft. |
|---|---|---|
| 1 inch = 100ft or | Flat 0 - 2% | 0.5 or 1 |
| larger scale | Rolling 2 - 8% | 1 or 2 |
| | Steep 8% + | 2.5 or 10 |

| Plan Page # | Included Y/N | | TO BE SHOWN ON ES&PC PLAN |
|---|---|---|---|
| 14 | Y | 38 | Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org. |
| 14 | Y | 39 | Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.* |
| 7,8,9 | Y | 40 | Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. |
| 7,8,9 | Y | 41 | Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. |
| 7 | Y | 42 | Delineation and acreage of contributing drainage basins on the project site. |
| N/A | N/A | 43 | Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.* |
| 7 | Y | 44 | An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| 7,8,9 | Y | 45 | Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. |
| 7 | Y | 46 | Soil series for the project site and their delineation. |
| 7,8,9 | Y | 47 | The limits of disturbance for each phase of construction. |
| 7 | Y | 48 | Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permitees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan. |
| 7,8,9 | Y | 49 | Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| 7,8,9 | Y | 50 | Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| 7,8,9 | Y | 51 | Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia. |

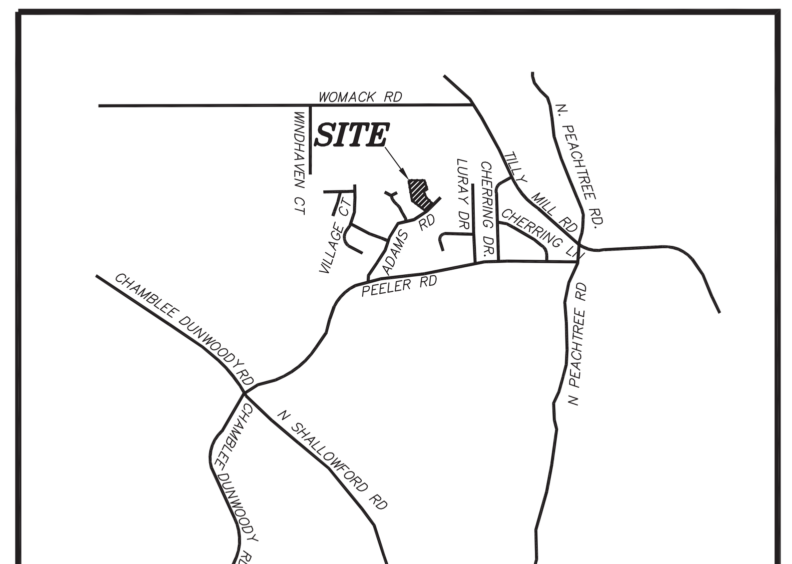
*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream he * checklist items would be N **Effective January 1, 2016**

GENERAL NOTES:

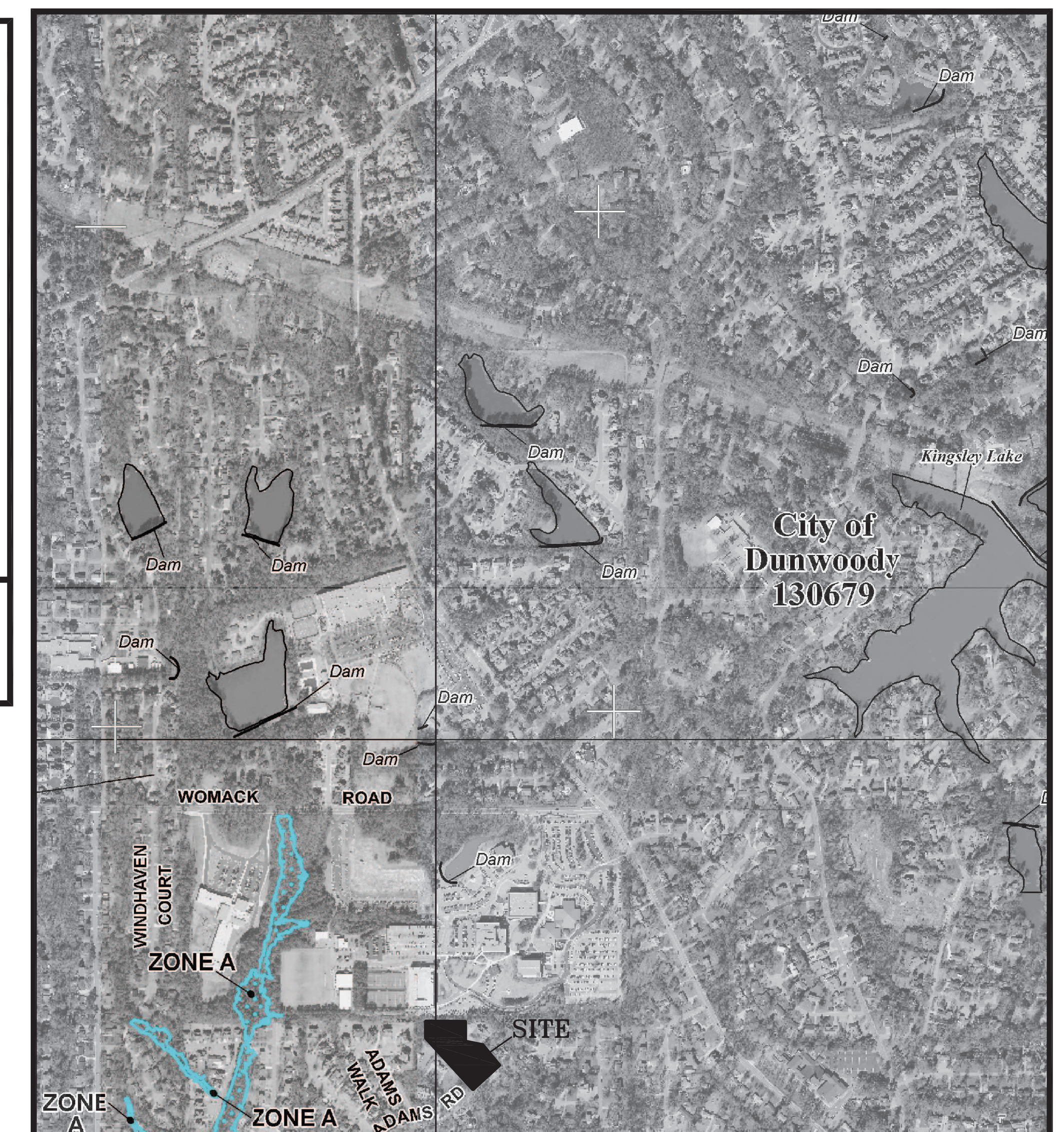
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY PREPARED BY COLLABORATIVE PLANNERS AND ENGINEERS; DECEMBER, 2014.
2. CONTOUR INTERVALS IS 2'.
3. WATER AND SANITARY SEWER SERVICE PROVIDED BY DEKALB COUNTY.
4. EXISTING SANITARY SEWER AND WATER MAIN LOCATIONS ARE SHOW PER DEKALB COUNTY DEPARTMENT OF WATERSHED SERVICES GIS MAPPING.
5. THERE ARE NO STATE WATERS, WETLANDS, NOR BUFFERS ASSOCIATED WITH STATE WATERS OR WETLANDS LOCATED ON SITE.
6. NO BURY PITS ARE ALLOWED OR ARE KNOWN TO EXIST ON THIS SITE.
7. THIS SITE DRAINS TO AN UNNAMED TRIBUTARY OF NANCY CREEK.
8. NO CONSTRUCTION SHALL BEGIN UNTIL A LAND DISTURBANCE PERMIT IS OBTAINED.
9. CERTIFICATE OF CONFORMITY: APPLICANT HEREBY CERTIFIES THAT NO LOTS PLATTED ARE NON-CONFORMING OR WILL RESULT IN ANY NON-CONFORMING LOTS.
10. NO BUILDING OR STRUCTURE ON THIS SITE HAS BEEN IDENTIFIED AS HISTORIC.
11. THERE ARE NO NATURAL FEATURES ON THIS SITE SUCH AS STREAM BUFFERS, STATE WATERS, CEMETERIES, WETLANDS, SPECIAL FLOOD HAZARD AREAS, ROCK OUTCROPPINGS OR ARCHEOLOGICAL RESOURCES.
12. THIS PROPOSED SUBDIVISION WILL BE SUBJECT TO PRIVATE COVENANTS; AND A HOMEOWNERS ASSOCIATION WILL BE ESTABLISHED.
13. PROPOSED USE IS SINGLE FAMILY RESIDENTIAL.
14. NO PORTION OF THIS PROPERTY LIES WITHIN A DESIGNATED FLOOD PRONE AREA AS PER F.I.R.M. COMMUNITY PANEL NO. 13089C0010J DEKALB COUNTY, GEORGIA, EFFECTIVE DATE MAY 16, 2013.
15. NOTIFY CITY OF DUNWOODY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
16. ALL PIPES, SWALES AND DITCHES ARE TO HAVE A 20' STORM DRAINAGE EASEMENT.
17. DEVELOPER TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
16. ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN CONFORMANCE WITH CITY OF DUNWOODY AND DEKALB COUNTY REGULATIONS.
18. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
19. ALL DETENTION PONDS AND OTHER WATER QUALITY FEATURES MUST BE LOCATED ON A SEPARATE LOT OR COMMON AREA WHERE NO HOME CAN BE CONSTRUCTED.
20. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETE AND SEDIMENT BASIN FACILITIES ARE CONSTRUCTED.
21. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND/OR CITY OF DUNWOODY INSPECTOR.
34. WATER SERVICE PROVIDED BY DEKALB COUNTY WATER SYSTEM.
22. ALL COMMON AREAS ARE TO BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
23. THE BACKFILL OF ALL TRENCHES AND GRADED BUILDING PADS SHALL BE COMPACTEDTO A DENSITY OF 95% OF THE THEORETICAL MAXIMUM DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS & SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. THE TOP 12" SHALL BE COMPACTED TO 98% STANDARD PROCTOR.
24. TOPSOIL SHALL BE STORED IN AREAS DESIGNATED FOR THAT PURPOSE.
25. ALL CONSTRUCTION TO CONFORM TO THE CITY OF DUNWOODY STANDARDS.
26. CONTRACTORS RESPONSIBLE FOR LOCATING ALL UTILITIES, CALL "UTILITIES PROTECTION CENTER" PRIOR TO CONSTRUCTION @ 811.

**SITE DATA**

| | |
|---|---|
| TOTAL SITE AREA: | 2.446 A.C. |
| ZONING: | R-100 |
| WETLAND AREA: | 0.00 A.C. |
| FLOOD PLAIN AREA: | 0.00 A.C. |
| TOTAL LOTS: | 3 LOTS |
| NET DENSITY: | 1.23 LOTS/AC. |
| MAX. BLDG. HEIGHT: | 35 FT. |
| R-100 MINIMUM ZONING STANDARDS: | |
| MINIMUM LOT AREA: | 15,000 S.F. |
| MINIMUM LOT WIDTH: | 100 FT. |
| MINIMUM STREET FRONTAGE: | 100 FT. |
| SETBACKS: | |
| FRONT YARD: | 35 FT. |
| SIDE YARD: | 10 FT. |
| REAR YARD: | 40 FT. |




VICINITY MAP
NOT TO SCALE




FIRM PANEL
MAP NUMBER 13089C0010J
PANEL: 10 OF 201
MAP DATED: MAY 16, 2013
1" = 1000'

INDEX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GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

EROSION DESIGN LEVEL II CERTIFICATION
MARK A. MILLER CERTIFICATION # 0000015923 EXP. DATE 08/09/2017

CITY OF DUNWOODY PROJECT #: 2016-11937
DEKALB COUNTY PROJECT A/P # 913330

ACR JOB NO. 16-012-C
PREPARED BY:

ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
(678) 291-0000

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

THE FIRM OF ACR ENGINEERING, INC. DOES NOT CERTIFY TO THE ACCURACY OR THE LOCATION OF ANY UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN HEREON. CONTACT THE UTILITIES PROTECTION CENTER AT 811 PRIOR TO ANY CONSTRUCTION.

**PROPERTY ADDRESS:**
4860 ADAMS ROAD
DUNWOODY, GA 30338

CALL 811 BEFORE YOU DIG — SAFE DIGGING PARTNER

4860 ADAMS ROAD

## SITE DATA

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| MINIMUM LOT AREA: | 15,000 S.F. |
| MINIMUM LOT WIDTH: | 100 FT. |
| MINIMUM STREET FRONTAGE: | 100 FT. |
| SETBACKS: | |
| FRONT YARD: | 35 FT. |
| SIDE YARD: | 10 FT. |
| REAR YARD: | 40 FT. |


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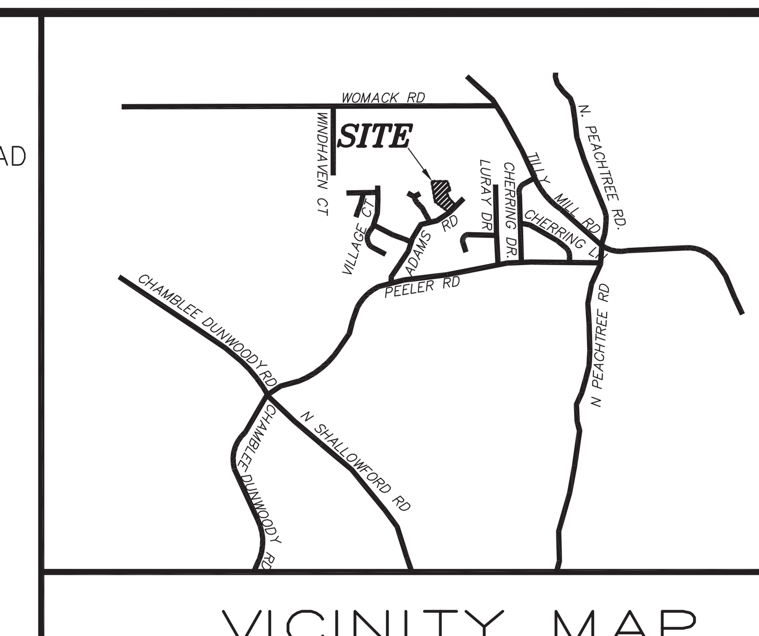
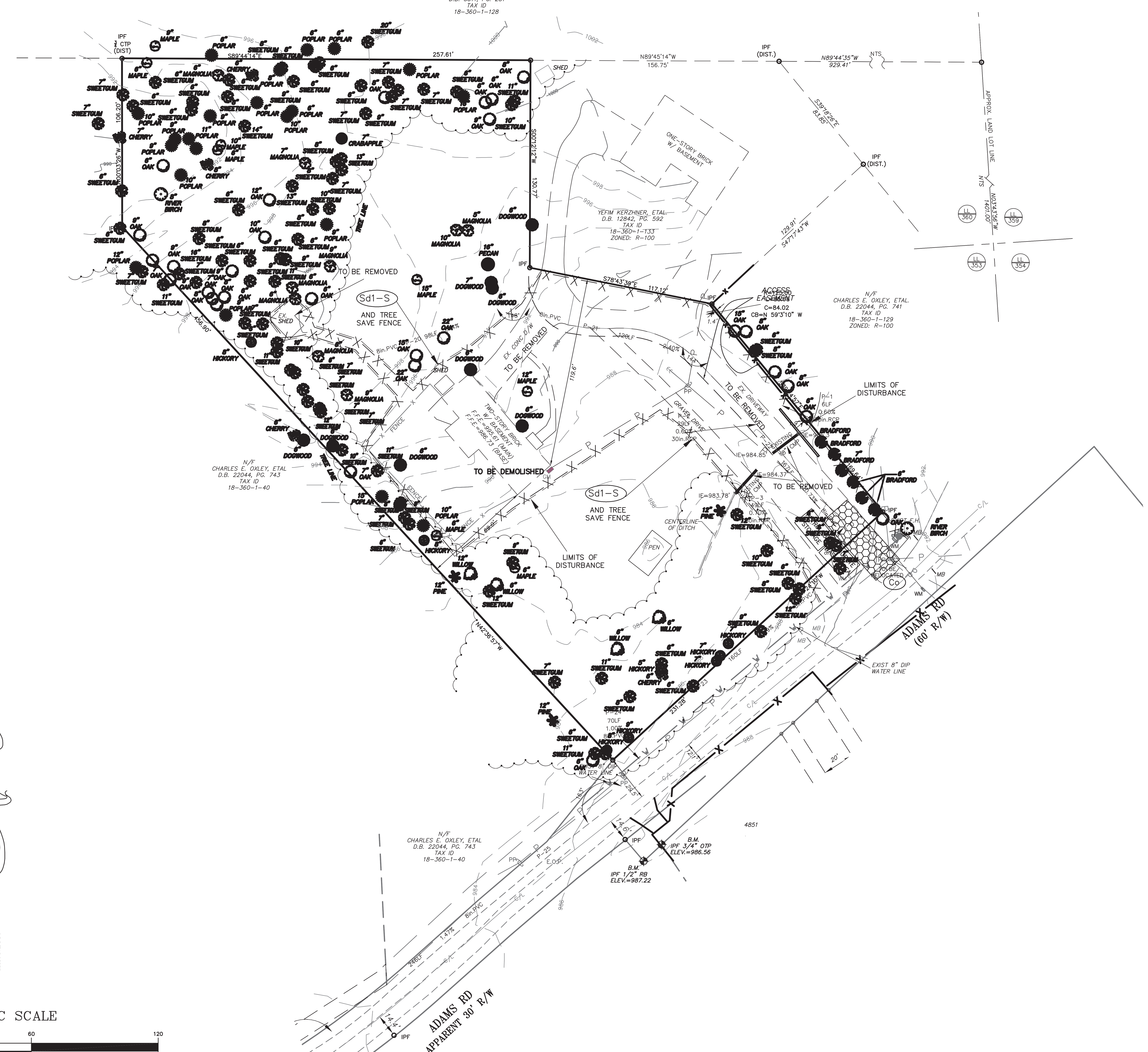



VICINITY MAP

NOT TO SCALE

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338




## LEGEND

| | |
|---|---|
| IPF | = IRON PIN FOUND (⊙) |
| IPS | = IRON PIN SET (○) |
| CMF | = CONCRETE MONUMENT FOUND (□) |
| CMS | = CONCRETE MONUMENT SET (□) |
| R/W | = RIGHT OF WAY |
| STA | = STATION NUMBER |
| LLL | = LAND LOT LINE |
| C/L | = CENTERLINE |
| P/L | = PROPERTY LINE |
| BM | = BENCHMARK |
| PT | = POINT OF TANGENCY |
| PC | = POINT OF CURVATURE |
| IE | = INVERT ELEVATION |
| EL | = ELEVATION (ELEV.) |
| B/L | = BUILDING LINE |
| R | = RADIUS |
| SGE | = SUBGRADE ELEVATION |
| → | = FLOW |
| ⊙ | = PROPERTY CORNER |
| -X- | = FENCE |
| ∅ | = POLE |
| -T- | = TELEPHONE LINE |
| -TV- | = TELEVISION LINE |
| -P- | = POWER LINE |
| -S- | = SANITARY SEWER LINE |
| SSE | = SANITARY SEWER EASEMENT |
| MH | = MANHOLE |
| -G- | = GAS LINE |
| -W- | = WATER LINE |
| GV | = PLUGGED STUB |
| ⋈ | = GATE VALVE |
| F.H. | = EXIST. FIRE HYDRANT |
| F.H. | = PROP. FIRE HYDRANT |
| W.M. | = WATER METER (⊗) |
| -ST- | = STORM SEWER LINE |
| YI | = YARD INLET |
| DI | = DROP INLET |
| CB | = CATCH BASIN |
| HW | = HEAD WALL |
| JB | = JUNCTION BOX |
| DE | = DRAINAGE EASEMENT |
| FM | = SEWER FORCE MAIN |
| DS | = DOWNSPOUT |
| CO | = CLEAN OUT |
| CMP | = CORRUGATED METAL PIPE |
| RCP | = REINFORCED CONCRETE PIPE |
| VCP | = VITRIFIED CLAY PIPE |
| DIP | = DUCTILE IRON PIPE |
| PVC | = POLYVINYL CHLORIDE PIPE |
| C & G | = CURB AND GUTTER |
| F.I.R.M. | = FEDERAL INSURANCE RATE MAP |
| T.P.O.B. | = TRUE POINT OF BEGINNING |
| P.O.B. | = POINT OF BEGINNING |
| GMD | = GA. MILITIA DISTRICT |
| ⌒⌒⌒ | = TREE LINE |
| REB. | = REBAR |
| -- | = BRANCH |
| --- | = EXISTING CONTOURS (DASHED) |
| -912- | = PROPOSED CONTOURS (SOLID) |
| TC | = TOP OF CURB ELEVATION |
| ▵ | = TRAVERSE POINT |
| L.P. | = LIGHT POLE (☼) |

MAGNETIC

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

NOTES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY PREPARED BY *COLLABORATIVE PLANNERS AND ENGINEERS*; DECEMBER, 2014.

2. CONTOUR INTERVALS IS 2'.

3. WATER AND SANITARY SEWER SERVICE PROVIDED BY DEKALB COUNTY.

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*SEPTIC TANK NOTES:
EXISTING SEPTIC TANK SHALL BE PUMPED OUT BY A LICENSED SEPTIC TANK COMPANY AND HAULED TO AN APPROVED LANDFILL. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING SEPTIC TANK DRAIN FIELD EXCAVATION SHALL BE REMOVED FROM THE SITE TO AN APPROVED LOCATION. SUITABLE MATERIAL SHALL BE PROPERLY INCORPORATED INTO THE ONSITE FILLS.

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX


ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


# EXISTING CONDITION AND DEMOLITION PLAN FOR 4860 ADAMS ROAD

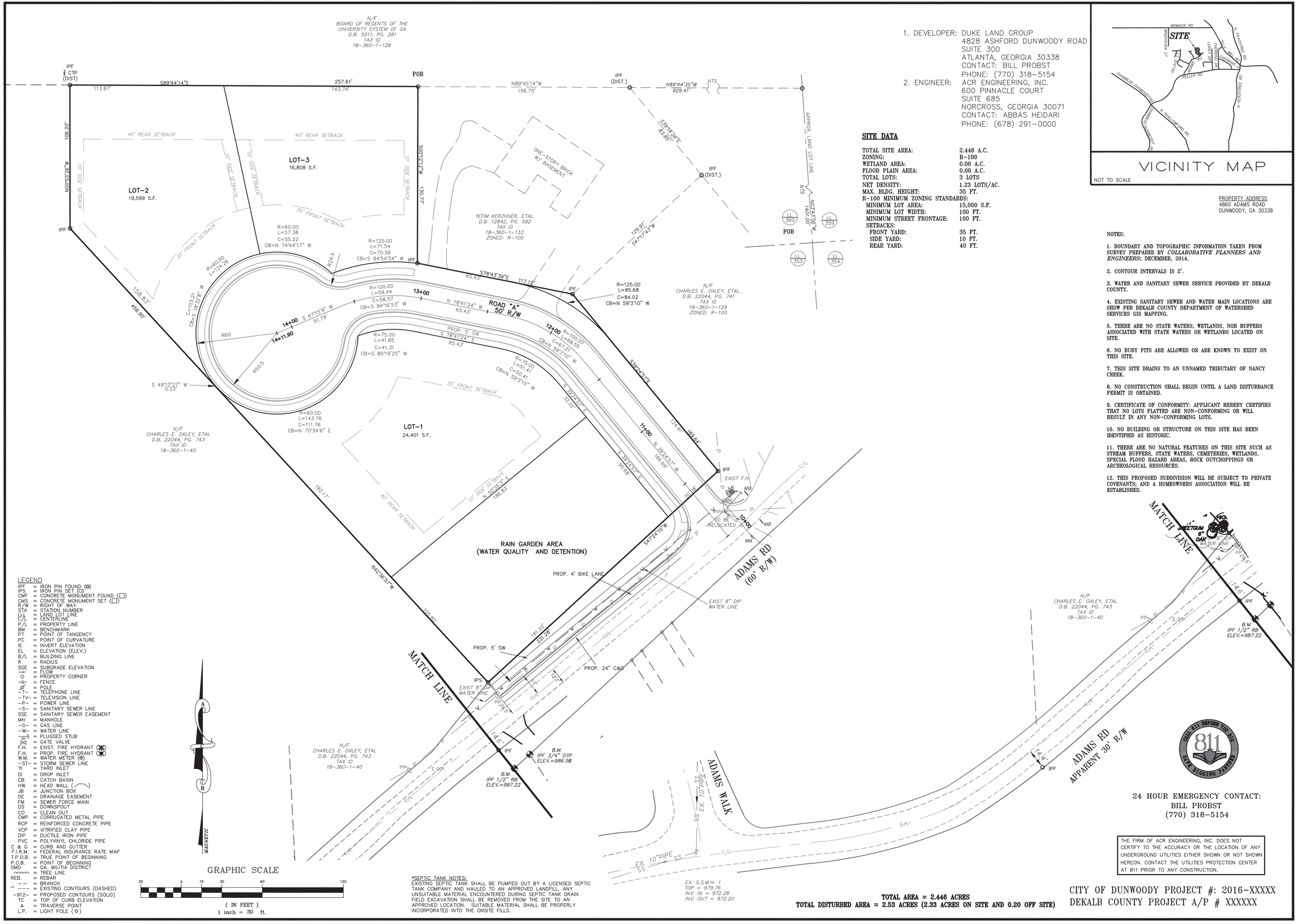
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A

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| WETLAND AREA: | 0.00 A.C. |
| FLOOD PLAIN AREA: | 0.00 A.C. |
| TOTAL LOTS: | 3 LOTS |
| NET DENSITY: | 1.23 LOTS/AC. |
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| MINIMUM LOT AREA: | 15,000 S.F. |
| MINIMUM LOT WIDTH: | 100 FT. |
| MINIMUM STREET FRONTAGE: | 100 FT. |
| SETBACKS: | |
| FRONT YARD: | 35 FT. |
| SIDE YARD: | 10 FT. |
| REAR YARD: | 40 FT. |




VICINITY MAP

NOT TO SCALE

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338

NOTES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY PREPARED BY *COLLABORATIVE PLANNERS AND ENGINEERS*; DECEMBER, 2014.

2. CONTOUR INTERVALS IS 2'.

3. WATER AND SANITARY SEWER SERVICE PROVIDED BY DEKALB COUNTY.

4. EXISTING SANITARY SEWER AND WATER MAIN LOCATIONS ARE SHOW PER DEKALB COUNTY DEPARTMENT OF WATERSHED SERVICES GIS MAPPING.

5. THERE ARE NO STATE WATERS, WETLANDS, NOR BUFFERS ASSOCIATED WITH STATE WATERS OR WETLANDS LOCATED ON SITE.

6. NO BURY PITS ARE ALLOWED OR ARE KNOWN TO EXIST ON THIS SITE.

7. THIS SITE DRAINS TO AN UNNAMED TRIBUTARY OF NANCY CREEK.

8. NO CONSTRUCTION SHALL BEGIN UNTIL A LAND DISTURBANCE PERMIT IS OBTAINED.

9. CERTIFICATE OF CONFORMITY: APPLICANT HEREBY CERTIFIES THAT NO LOTS PLATTED ARE NON-CONFORMING OR WILL RESULT IN ANY NON-CONFORMING LOTS.

10. NO BUILDING OR STRUCTURE ON THIS SITE HAS BEEN IDENTIFIED AS HISTORIC.

11. THERE ARE NO NATURAL FEATURES ON THIS SITE SUCH AS STREAM BUFFERS, STATE WATERS, CEMETERIES, WETLANDS, SPECIAL FLOOD HAZARD AREAS, ROCK OUTCROPPINGS OR ARCHEOLOGICAL RESOURCES.

12. THIS PROPOSED SUBDIVISION WILL BE SUBJECT TO PRIVATE COVENANTS; AND A HOMEOWNERS ASSOCIATION WILL BE ESTABLISHED.

LEGEND

| | |
|---|---|
| IPF | = IRON PIN FOUND (O) |
| IPS | = IRON PIN SET (O) |
| CMF | = CONCRETE MONUMENT FOUND (□) |
| CMS | = CONCRETE MONUMENT SET (□) |
| R/W | = RIGHT OF WAY |
| STA | = STATION NUMBER |
| LL/L | = LAND LOT LINE |
| C/L | = CENTERLINE |
| P/L | = PROPERTY LINE |
| BM | = BENCHMARK |
| PT | = POINT OF TANGENCY |
| PC | = POINT OF CURVATURE |
| IE | = INVERT ELEVATION |
| EL | = ELEVATION (ELEV.) |
| B/L | = BUILDING LINE |
| R | = RADIUS |
| SGE | = SUBGRADE ELEVATION |
| —— | = FLOW |
| O | = PROPERTY CORNER |
| -x- | = FENCE |
| ⌀ | = POLE |
| -T- | = TELEPHONE LINE |
| -TV- | = TELEVISION LINE |
| -P- | = POWER LINE |
| -S- | = SANITARY SEWER LINE |
| SSE | = SANITARY SEWER EASEMENT |
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| P.O.B. | = POINT OF BEGINNING |
| GMD | = GA. MILITIA DISTRICT |
| | = TREE LINE |
| REB. | = REBAR |
| | = BRANCH |
| | = EXISTING CONTOURS (DASHED) |
| -912- | = PROPOSED CONTOURS (SOLID) |
| TC | = TOP OF CURB ELEVATION |
| ▲ | = TRAVERSE POINT |
| L.P. | = LIGHT POLE (☼) |




GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

*SEPTIC TANK NOTES:
EXISTING SEPTIC TANK SHALL BE PUMPED OUT BY A LICENSED SEPTIC TANK COMPANY AND HAULED TO AN APPROVED LANDFILL. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING SEPTIC TANK DRAIN FIELD EXCAVATION SHALL BE REMOVED FROM THE SITE TO AN APPROVED LOCATION. SUITABLE MATERIAL SHALL BE PROPERLY INCORPORATED INTO THE ONSITE FILLS.

**TOTAL AREA = 2.446 ACRES**
**TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)**

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX

811 CALL BEFORE YOU DIG
IT'S THE LAW
IT'S DIGGING BETTER

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

THE FIRM OF ACR ENGINEERING, INC. DOES NOT CERTIFY TO THE ACCURACY OR THE LOCATION OF ANY UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN HEREON. CONTACT THE UTILITIES PROTECTION CENTER AT 811 PRIOR TO ANY CONSTRUCTION.

ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887

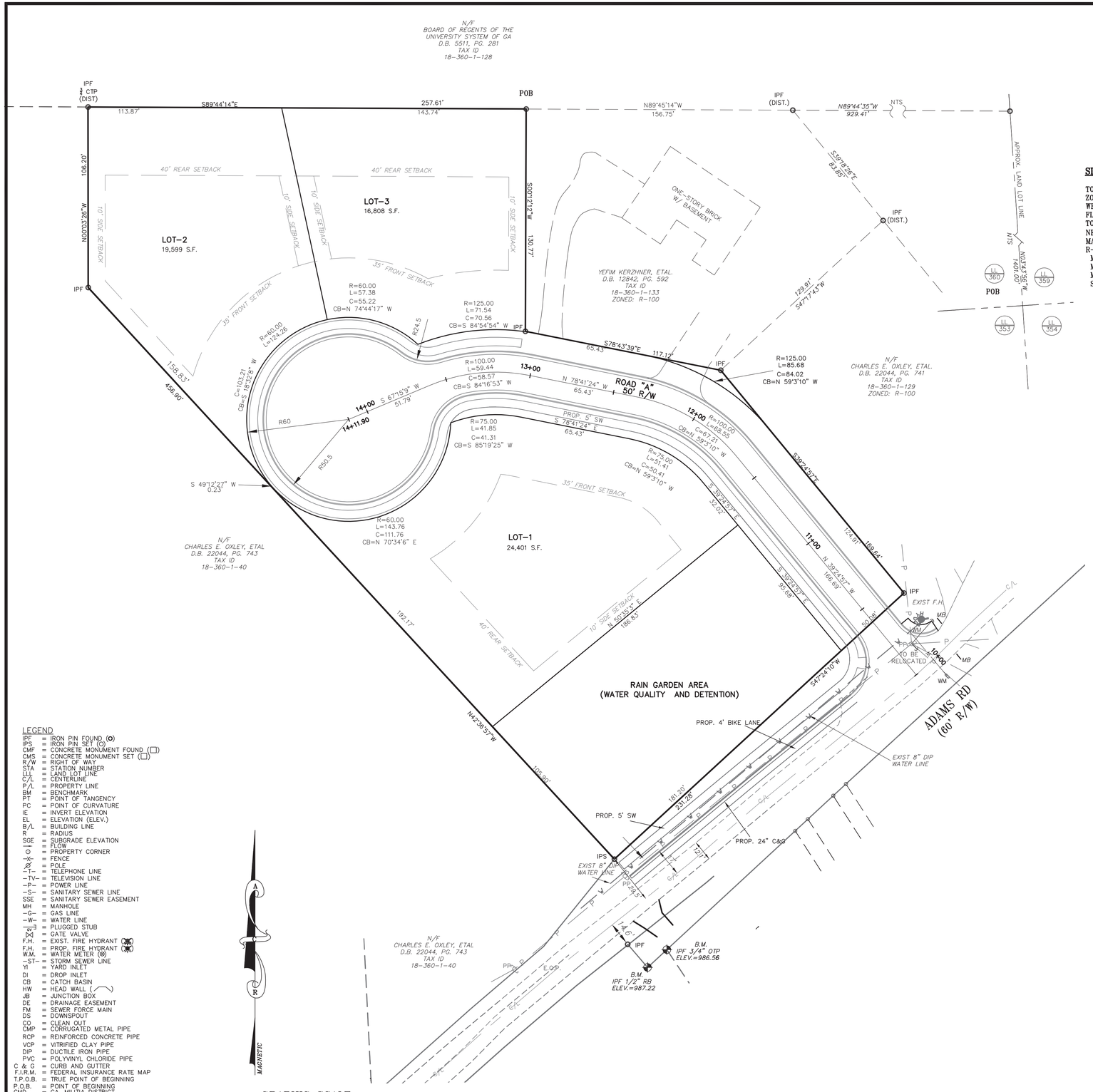
# SITE PLAN
FOR
# 4860 ADAMS ROAD
LL. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 3 Of 17




LEGEND

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| CMF | = CONCRETE MONUMENT FOUND (□) |
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1. DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

2. ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000

**SITE DATA**

| | |
|---|---|
| TOTAL SITE AREA: | 2.446 A.C. |
| ZONING: | R-100 |
| WETLAND AREA: | 0.00 A.C. |
| FLOOD PLAIN AREA: | 0.00 A.C. |
| TOTAL LOTS: | 3 LOTS |
| NET DENSITY: | 1.23 LOTS/AC. |
| MAX. BLDG. HEIGHT: | 35 FT. |
| R-100 MINIMUM ZONING STANDARDS: | |
| MINIMUM LOT AREA: | 15,000 S.F. |
| MINIMUM LOT WIDTH: | 100 FT. |
| MINIMUM STREET FRONTAGE: | 100 FT. |
| SETBACKS: | |
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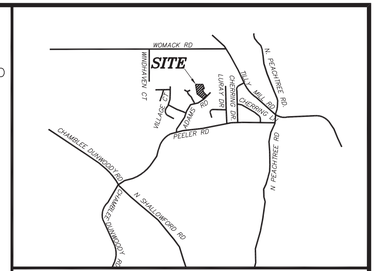


VICINITY MAP

NOT TO SCALE

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338

NOTES:

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THE PURPOSE OF THIS PLAT IS TO CREATE ADDRESSES AND PARCELS TEMPORARILY FOR 4860 ADAMS ROAD. FINAL PLAT UNAVAILABLE AS OF AUGUST 29, 2016.

THIS ADDRESSING PLAT HAS BEEN SUBMITTED TO AND APPROVED BY CITY OF DUNWOODY ADDRESSING,
ON THIS _____DAY OF_____20_____.

BY: _____

TITLE: _____
CITY OF DUNWOODY ADDRESSING

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX

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LL. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
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DATE: AUGUST 29, 2016
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Sheet 4 Of 17

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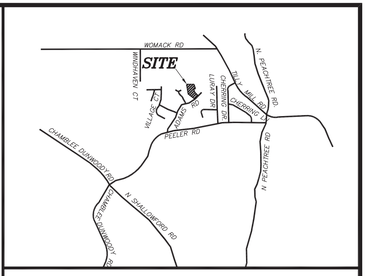



VICINITY MAP

NOT TO SCALE

**WATER & SEWER NOTES:**

NOTE FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER & SEWER ENGINEER **BEFORE** CHANGES ARE IMPLEMENTED.

NOTE FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.

NOTE POTABLE WATER MAINS SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL SEPARATION AND EIGHTEEN (18") INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.

NOTE THRUST BLOCKS ARE REQUIRED WHENEVER A PIPE CHANGES DIRECTION (TEES, BENDS, ETC.)

NOTE GRAVITY SEWER LINE MATERIAL SHALL BE PVC (SDR35) OR DIP (CLASS 350).

NOTE PROVIDE EASEMENT PLAT & DEED FOR REVIEW FOR ALL SANITARY SERE AND WATER EASEMENTS. (AFTER CONSTRUCTION AND WITH AS-BUILTS).

NOTE WATER & SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES: NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE. 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER & SEWER PLAN APPROVAL, AS WELL AS CERTIFICATE OF OCCUPANCY/COMPLETION. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.

ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.

TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL (770)414-2383 OR (770)621-7272.

THIS SITE PLAN INDICATES POTABLE WATER SERVICE LINES, AND SANITARY SEWER LATERALS. GEORGIA STATE LAW REQUIRES THIS WORK TO BE INSTALLED BY A GEORGIA LICENSED MASTER PLUMBER.

THE DEVELOPER AND/OR DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.

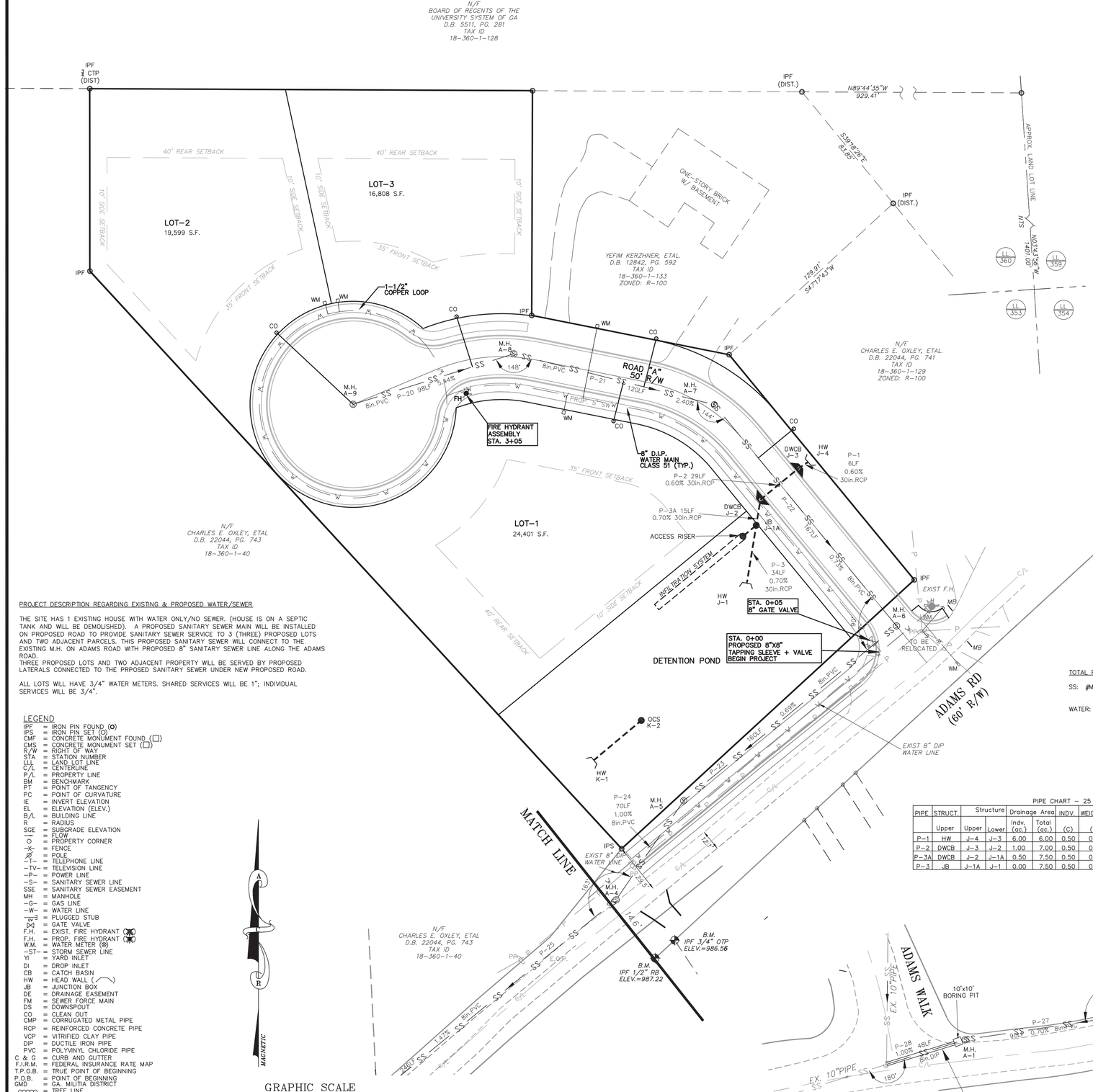
WATER SERVICES AND SEWER SERVICE LATERALS LOCATIONS ARE TO BE PERMANENTLY MARKED ON THE CURB.

DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC (AutoCAD OR MICROSTATION FORMAT), AS WELL AS RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.

CONTRACTOR MUST JET CLEAN AND TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING SEWER TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.

CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES:

DISTRICT: 18(WEST) & 6
INSPECTOR: M.McGUIRE
CELL: (404)274-9024




PROJECT DESCRIPTION REGARDING EXISTING & PROPOSED WATER/SEWER

THE SITE HAS 1 EXISTING HOUSE WITH WATER ONLY/NO SEWER. (HOUSE IS ON A SEPTIC TANK AND WILL BE DEMOLISHED). A PROPOSED SANITARY SEWER MAIN WILL BE INSTALLED ON PROPOSED ROAD TO PROVIDE SANITARY SEWER SERVICE TO 3 (THREE) PROPOSED LOTS AND TWO ADJACENT PARCELS. THIS PROPOSED SANITARY SEWER WILL CONNECT TO THE EXISTING M.H. ON ADAMS ROAD WITH PROPOSED 8" SANITARY SEWER LINE ALONG THE ADAMS ROAD.
THREE PROPOSED LOTS AND TWO ADJACENT PROPERTY WILL BE SERVED BY PROPOSED LATERALS CONNECTED TO THE PRPOSED SANITARY SEWER UNDER NEW PROPOSED ROAD.

ALL LOTS WILL HAVE 3/4" WATER METERS. SHARED SERVICES WILL BE 1"; INDIVIDUAL SERVICES WILL BE 3/4".

LEGEND

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WATER AND SEWER FEES:

(1) EXISTING HOUSE- WATER ONLY (CREDIT FOR 1)
(3) HOUSES x $1811.93 = **$5,435.79 - SEWER ACCESS**
(2) HOUSES x $2,000.00 = **$4,000.00 - WATER ACCESS**

TOTAL PROPOSED WATER/SANITARY SEWER INFRASTRUCTURE

SS: #MHs: 8 SIZE/MATERIAL OF SS: 8" DIP LF OF SS: 48 LF
8" PVC 1020 LF

WATER: #FHs: 1 SIZE/MATERIAL OF WATER: 8" DIP LF OF WATER: 317
1-1/2" COPPER LF OF WATER: 342

PIPE CHART - 25 YR STORM

| PIPE | STRUCT. | Structure | | Drainage Area | | INDV. | WEIGHTED | INDV. | TOTAL | Vel. | Size | Length | Slope | Pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Upper | Upper | Lower | Indv. (ac.) | Total (ac.) | (C) | (Cw) | Q25 (cfs) | Q25 (cfs) | (fps) | (in) | (ft) | (%) | Type |
| P-1 | HW | J-4 | J-3 | 6.00 | 6.00 | 0.50 | 0.50 | 24.84 | 24.84 | 7.3 | 30.00 | 6.00 | 0.60 | RCP |
| P-2 | DWCB | J-3 | J-2 | 1.00 | 7.00 | 0.50 | 0.50 | 4.14 | 28.98 | 7.3 | 30.00 | 29.00 | 0.60 | RCP |
| P-3A | DWCB | J-2 | J-1A | 0.50 | 7.50 | 0.50 | 0.50 | 2.07 | 31.05 | 7.8 | 30.00 | 15.00 | 0.70 | RCP |
| P-3 | JB | J-1A | J-1 | 0.00 | 7.50 | 0.50 | 0.50 | 0.00 | 31.05 | 7.8 | 30.00 | 34.00 | 0.70 | RCP |

TOTAL AREA = 2.446 ACRES
TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

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CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX

ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887

UTILITY PLAN
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

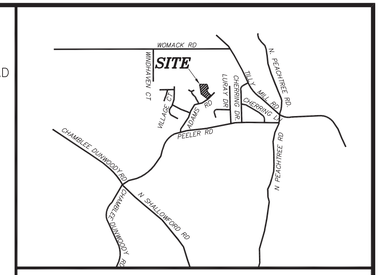
CALL ALL BEFORE YOU DIG GIVE DIGGING PARTNER

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 5 of 17

1. DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

2. ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338




VICINITY MAP

NOT TO SCALE

## GRADING NOTES

ALL STRUCTURAL FILL PLACED SHOULD BE COMPACTED TO AT LEAST 95% OF THE SOIL STANDARD PROCTOR MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM STANDARD D-698. THE UPPER FOOT OF FILL THAT WILL SUPPORT PAVEMENTS SHOULD BE COMPACTED TO AT LEAST 98% OF THE SOILS STANDARD PROCTOR MAXIMUM DRY DENSITY FOR IMPROVED SUBGRADE SUPPORT. IN PAVED AREAS ON THE SOUTHERN EDGE OF THE SITE THAT ARE AT OR ABOVE FINISH GRADE AND WHICH WILL SUPPORT PAVEMENTS, THE UPPER 8 INCHES IMMEDIATELY BELOW THE SYSTEM SHOULD BE SCARIFIED AND RECOMPACTED TO THE 98% CRITERIA.

DENSITY TESTING SHOULD BE PERFORMED BY A SOILS TECHNICIAN TO DETERMINE THE DEGREE OF COMPACTION AND VERIFY COMPLIANCE WITH PROJECT SPECIFICATIONS. AT LEAST ONE FILL DENSITY TEST SHOULD BE MADE PER 5,000 SQUARE FEET OF FILL AREA FOR EACH TWO-FOOT LIFT. TESTING FREQUENCY SHOULD BE INCREASED IN CONFINED AREAS. AREAS WHICH DO NOT MEET THE COMPACTION SPECIFICATIONS SHOULD BE RECOMPACTED TO ACHIEVE COMPLIANCE. WE RECOMMEND THAT A GEOTECHNICAL ENGINEER OBSERVE ALL UNDERCUTTING OF UNSUITABLE DEBRIS AND FILLS FROM THE SITE, PRIOR TO ANY FILL PLACEMENT. THE ENGINEER SHOULD ALSO EVALUATE THE EXPOSED SURFACE AND OBSERVE ANY CONDITIONS THAT MAY IMPACT ADDITIONAL FILL PLACEMENT. IF THE EXPOSED SUBGRADE IS FOUND UNSUITABLE TO ACCEPT STRUCTURAL FILL PLACEMENT, STONE STABILIZATION OR ADDITIONAL UNDERCUTTING MAY BE REQUIRED.

LEGEND
IPF = IRON PIN FOUND (●)
IPS = IRON PIN SET (○)
CMF = CONCRETE MONUMENT FOUND (□)
CMS = CONCRETE MONUMENT SET (□)
R/W = RIGHT OF WAY
STA = STATION NUMBER
LL = LAND LOT LINE
C/L = CENTERLINE
P/L = PROPERTY LINE
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R = RADIUS
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— = FLOW
O = PROPERTY CORNER
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W.M. = WATER METER (⊗)
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JB = JUNCTION BOX
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CMP = CORRUGATED METAL PIPE
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VCP = VITRIFIED CLAY PIPE
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F.I.R.M. = FEDERAL INSURANCE RATE MAP
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L.P. = LIGHT POLE (☼)

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

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**TOTAL AREA = 2.446 ACRES**
**TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)**

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

THE FIRM OF ACR ENGINEERING, INC. DOES NOT CERTIFY TO THE ACCURACY OR THE LOCATION OF ANY UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN HEREON. CONTACT THE UTILITIES PROTECTION CENTER AT 811 PRIOR TO ANY CONSTRUCTION.

CALL 811 BEFORE YOU DIG
811 SAVE DIGGING PAYMENTS


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# GRADING PLAN
FOR
# 4860 ADAMS ROAD
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DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

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Sheet 6 of 17
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THE INSTALLATION IF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

**TOTAL AREA = 2.446 ACRES**

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SOIL SURVEY DATA
AmC – Appling–sandy loam, 6 to 10 percent slopes
AuC – Appling–Urban land complex, 2 to 10 percent slopes

LOCATION OF SOILS IS AS SHOWN ON THE WEB SOIL SURVEY BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.

NOTE:

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.

A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.

B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

1. DEVELOPER: DUKE LAND GROUP
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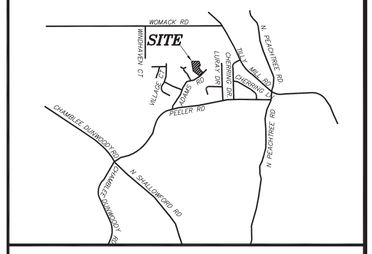



VICINITY MAP

NOT TO SCALE

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338

**EROSION NOTES:**
**1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLTION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.**
**2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. EROSION CONTROL PLAN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE AND AND INSTALLATION OF CONTROL DEVICES SHALL FOLLOW SUCH.
4. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 VOLUME.
5. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
6. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
7. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND–DISTURBANCE ACTIVITIES.
8. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON–SITE–INSPECTION.
9. DISTURBED AREAS LEFT IDLE FOR TWO WEEKS, AND NOT FINAL GRADED, WILL BE ESTABLISHED TO TEMPORARY VEGETATION (Ds2). DISTURBED AREAS LEFT IDLE FOR FOUR WEEKS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION (Ds3). ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN TWO WEEKS OF FINAL PLANTING. WHEN HAND PLANTING, MULCH, (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREAS WITHIN 24 HOURS OF SEEDING.
10. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON–SITE.
11. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
12. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (Ds1) ON SLOPES THAT ARE 4:1 OR STEEPER. MULCH WILL BE ANCHORED.
13. ALL EROSION CONTROL DEVICES AND SEDIMENT PONDS SHALL BE IN PLACE PRIOR TO ANY GRADING ON THE SITE.
14. IF SILT COLLECTS WITHIN 1' OF TOP OF BARRIER, BARRIER IS TO BE CLEANED OR REPLACED.
15. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, DEKALB COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
16. CONTACT DEKALB COUNTY INSPECTOR 24 HRS. PRIOR TO ANY CONSTRUCTION.
17. THERE IS A STATE WATER WITHIN 200'.
18. EROSION CONTROL MATTING (Mb) REQUIRED ON ALL SLOPES GREATER THAN 2.5:1 WITH A HEIGHT OF 10' OR GREATER.
19. ALL DETENTION POND SLOPES SHALL RECEIVE PERMANENT VEGETATIVE STABILIZATION IMMEDIATELY AFTER CONSTRUCTION.
20. ALL SEDIMENT TRAPS LOCATED ALONG ROADS SHALL BE REPLACED WITH Sd2–P TYPE SEDIMENT TRAPS UPON COMPLETION.
**21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
**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 ACTIVITY.**
**23. THE GRINDINGS FROM CLEARING SHALL BE DISPOSED OF PROPERLY, AND NEITHER BURIED NOR BURNED.**
24. IF PRIMARY PERMITTEE CHANGES DURING THE COURSE OF A PROJECT, THE NEW PRIMARY PERMITTEE MUST SUBMIT COPIES OF THE NEW NOI TO THE CITY OF DUNWOODY LAND DISTURBANCE INSPECTOR

**A. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.**
**B. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.**
**C. A 50' FOOT UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.**
**ALL SEDIMENT TRAPS (INLET STRUCTURES) SHALL HAVE DOUBLE ROW OF SILT FENCE SEPARATED BY TWO FOOT MINIMUM.**
**THE STREAM & STREAM BUFFERS ARE THE CRITICAL AREA. A DOUBLE ROW OF SILT FENCE WILL BE USED TO PROTECT THESE AREAS.**
**ALL SILT FENCES ARE TYPE "C" RUNOFF FROM ALL DISTURBED AREAS SHALL BE DIRECTED TOWARDS THE EXISTING WATER QUALITY POND.**
**THE PLAN DESIGNER HAS VISITED THE SITE PRIOR TO THE DESIGN OF THE E&SC PLANS.**

**BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS**

MEASURES TO TAKE TO PREVENT PETROLEUM SPILLS OR LEAKS:
1. KEEP SPILL KITS READILY ACCESSIBLE.
2. CHECK INCOMING VEHICLES FOR LEAKING OIL AND FLUIDS.
3. INSPECT EQUIPMENT ROUTINELY FOR LEAKING OIL AND FLUIDS.
4. REPAIR EQUIPMENT IMMEDIATELY, IF NECESSARY.
NOTE: PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE
TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

IF THERE IS A PETROLEUM SPILL ON SITE:
1. CONTAIN THE SPILL TO AS SMALL OF AN AREA AS POSSIBLE.
2. TRANSFER FLUIDS AND OIL FILTERS TO AN AUTHORIZED WASTE OR RECYCLING CENTER.

Sd4–C

Sd4–C #1: SEDIMENT STORAGE CALCULATIONS:
Total Drainage Area = 4.9 Ac. (Incl. Offsite)
Volume Required: 4.9 Ac. x 67 c.y./Ac. = 328.3 c.y.
Volume Provided: 50' W. x 110' L. x 2' D. = 407 c.y.

Sd4–A

Sd4–C #1: SEDIMENT STORAGE CALCULATIONS:
Total Drainage Area = 0.8 Ac. (Incl. Offsite)
Volume Required: 0.8 Ac. x 67 c.y./Ac. = 54 c.y.
Volume Provided: 30' W. x 27' L. x 2' D. = 60 c.y.

**EROSION CONTROL SCHEDULE**

STAGE 1: CLEARING & GRUBBING
INSALL CONSTRUCTION EXIT (Co)
INSTALL SILT FENCE (Sd1)
INSTALL TEMPORARY SEDIMENT POND (Sd4)
INSTALL DIVERSION DITCHES (Di)
SPREAD TEMPORARY MULCHING (Ds1)

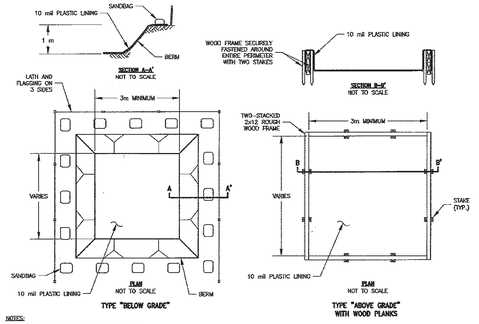
STAGE 2: GRADING
PLACE RIP–RAP (St)
SPREAD TEMPORARY MULCHING (Ds1)
SPREAD TEMPORARY SEEDING (Ds2)
INSTALL/MAINTAIN INLET SEDIMENT TRAP (Sd2)
MAINTAIN SILT FENCE (Sd1)
MAINTAIN CONSTRUCTION EXIT (Co)

STAGE 3: FINAL GRADING
INSTALL EROSION CONTROL MAT TO SLOPES (Ss)
MAINTAIN RIP–RAP (St)
SPREAD PERMANENT SEEDING (Ds3)
REMOVE CONSTRUCTION EXIT (Co)

NOTE: (St) TO BE INSTALLED OUTSIDE OF THE LIMITS OF DISTURBANCE TO BE DONE WITHOUT USING EQUIPMENT THAT WILL DISTURB THE GROUND.

## CONCRETE WASHOUT DETAIL

- Materials used to construct temporary concrete washout facilities shall be removed from the site of the work and disposed of or recycled.
- Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled, repaired, and stabilized to prevent erosion.




NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.

LEGEND

| | | | |
|---|---|---|---|
| IPF | = IRON PIN FOUND (○) | F.H. | = PROP. FIRE HYDRANT (FH) |
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| —▷— | = FLOW | C & G | = CURB AND GUTTER |
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| ⋈ | = GATE VALVE | | |

NOTE: PHASE I EROSION & SOIL CONTROL PLAN SHOULD BE IN PLACE BEFORE GRADING, CLEARING & GRUBBING STARTS.

NOTIFY CITY OF DUNWOODY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION.

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

## EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CERTIFICATIONS

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

"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 SEDIMENTATION CONTROL IN GEORGIA", AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE DESIGN REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

"I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY SUPERVISION OR DIRECTION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONAL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED UPON MY INQUIRY OF THE 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."

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFEESIONAL.

GSWCC LEVEL II CERT. NO. 15923, EXP. 8/19/2017
MARK A. MILLER

## SITE SPECIFIC EROSION NOTES:

1. THIS SITE DOES CONTAIN STATE WATERS.
2. THERE ARE NO WETLANDS ON THIS SITE.
3. THIS SITE DRAINS TO NANCY CREEK .
4. THE NATURE OF THIS PROJECT IS SINGLE FAMILY LOTS.
5. PROFESSIONAL ENGINEER OF RECORD HAS VISITED THE PROPOSED SITE.

SIGNATURE & SEAL

GSWCC LEVEL II CERT. NO. 15923
8/19/2017
SIGNATURE EXP. DATE
MARK A. MILLER
PRINTED NAME

24 HOUR EMERGENCY CONTACT:
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CITY OF DUNWOODY PROJECT #: 2016–XXXXX
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EROSION AND SEDIMENTATION CONTROL PLAN PHASE 1
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DRAWN: BF

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SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 7 of 17

| PIPE STRUCTURE | d (FEET) | 3d (FEET) | $Q_{25}$ (CFS) | $V_{25}$ (FPS) | La (FEET) | $W_1$ (FEET) | $W_2$ (FEET) | d50 (INCH) | Dmax (INCH) | D (INCH) | N.S.A. NO. | FILTER STONE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HW J-1 | 2.5 | 7.5 | 31.05 | 7.2 | 15 | 7.5 | 22.5 | 6 | 12 | 12 | R-3 | FS-2 |

N/F
BOARD OF REGENTS OF THE UNIVERSITY SYSTEM OF GA
D.B. 5511, PG. 281
TAX ID
18-360-1-128

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LOCATION OF SOILS IS AS SHOWN ON THE WEB SOIL SURVEY BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.

NOTE:

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.

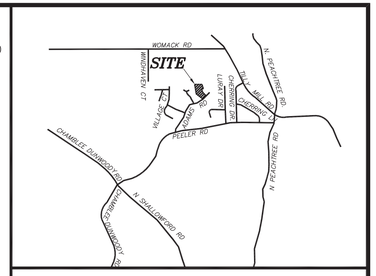
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.

B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

1. DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

2. ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338




VICINITY MAP

NOT TO SCALE

## BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS

MEASURES TO TAKE TO PREVENT PETROLEUM SPILLS OR LEAKS:
1. KEEP SPILL KITS READILY ACCESSIBLE.
2. CHECK INCOMING VEHICLES FOR LEAKING OIL AND FLUIDS.
3. INSPECT EQUIPMENT ROUTINELY FOR LEAKING OIL AND FLUIDS.
4. REPAIR EQUIPMENT IMMEDIATELY, IF NECESSARY.

IF THERE IS A PETROLEUM SPILL ON SITE:
1. CONTAIN THE SPILL TO AS SMALL OF AN AREA AS POSSIBLE.
2. TRANSFER FLUIDS AND OIL FILTERS TO AN AUTHORIZED WASTE OR RECYCLING CENTER.

EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH CONTRACTOR TO INSTALL DOUBLE ROW SILT FENCE TYPE "C" ALONG STREAMS. FENCE SEPARATED BY TWO FEET MINIMUM.

ALL SEDIMENT TRAPS (INLET STRUCTURES) SHALL HAVE DOUBLE ROW OF SILT FOR ADDITIONAL EROSION CONTROL NOTES AND DETAILS SEE SHEET 12. FOR EROSION, SEDIMENT AND POLLUTION CONTROL PLAN NOTES SEE SHEET 13.

WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND 2) THE APPROPRIATE PLAN SHEET ( ) DOES/ ( X ) DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

THE INSTALLATION IF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

NOTIFY CITY OF DUNWOODY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION.

NOTE: PHASE I EROSION & SOIL CONTROL PLAN SHOULD BE IN PLACE BEFORE GRADING, CLEARING & GRUBBING STARTS.

## EROSION CONTROL SCHEDULE

**STAGE 1: CLEARING & GRUBBING**
- INSALL CONSTRUCTION EXIT (Co)
- INSTALL SILT FENCE (Sd1)
- INSTALL TEMPORARY SEDIMENT POND (Sd4)
- INSTALL DIVERSION DITCHES (Di)
- SPREAD TEMPORARY MULCHING (Ds1)

**STAGE 2: GRADING**
- PLACE RIP-RAP (St)
- SPREAD TEMPORARY MULCHING (Ds1)
- SPREAD TEMPORARY SEEDING (Ds2)
- INSTALL/MAINTAIN INLET SEDIMENT TRAP (Sd2)
- MAINTAIN SILT FENCE (Sd1)
- MAINTAIN CONSTRUCTION EXIT (Co)

**STAGE 3: FINAL GRADING**
- INSTALL EROSION CONTROL MAT TO SLOPES (Ss)
- MAINTAIN RIP-RAP (St)
- SPREAD PERMANENT SEEDING (Ds3)
- REMOVE CONSTRUCTION EXIT (Co)

NOTE: (St) TO BE INSTALLED OUTSIDE OF THE LIMITS OF DISTURBANCE TO BE DONE WITHOUT USING EQUIPMENT THAT WILL DISTURB THE GROUND.

## SITE SPECIFIC EROSION NOTES:

1. THIS SITE DOES CONTAIN STATE WATERS.
2. THERE ARE NO WETLANDS ON THIS SITE.
3. THIS SITE DRAINS TO NANCY CREEK .
4. THE NATURE OF THIS PROJECT IS SINGLE FAMILY LOTS.
5. PROFESSIONAL ENGINEER OF RECORD HAS VISITED THE PROPOSED SITE.

SIGNATURE & SEAL

## EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CERTIFICATIONS

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

"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 SEDIMENTATION CONTROL IN GEORGIA", AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE DESIGN REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

"I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY SUPERVISION OR DIRECTION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONAL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED UPON MY INQUIRY OF THE 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."

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESIONAL.

GSWCC LEVEL II CERT. NO. 15923, EXP. 8/19/2017
MARK A. MILLER

LEGEND

| | | | |
|---|---|---|---|
| IPF | = IRON PIN FOUND (●) | F.H. | = PROP. FIRE HYDRANT (⊛) |
| IPS | = IRON PIN SET (○) | W.M. | = WATER METER (Ⓦ) |
| CMF | = CONCRETE MONUMENT FOUND (□) | -ST- | = STORM SEWER LINE |
| CMS | = CONCRETE MONUMENT SET (□) | YI | = YARD INLET |
| R/W | = RIGHT OF WAY | DI | = DROP INLET |
| STA | = STATION NUMBER | CB | = CATCH BASIN |
| LL | = LAND LOT LINE | HW | = HEAD WALL ( ) |
| C/L | = CENTERLINE | JB | = JUNCTION BOX |
| P/L | = PROPERTY LINE | DE | = DRAINAGE EASEMENT |
| BM | = BENCHMARK | FM | = SEWER FORCE MAIN |
| PT | = POINT OF TANGENCY | DS | = DOWNSPOUT |
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| — | = FLOW | C & G | = CURB AND GUTTER |
| O | = PROPERTY CORNER | F.I.R.M. | = FEDERAL INSURANCE RATE MAP |
| -X- | = FENCE | T.P.O.B. | = TRUE POINT OF BEGINNING |
| ⌀ | = POLE | P.O.B. | = POINT OF BEGINNING |
| -T- | = TELEPHONE LINE | GMD | = GA. MILITIA DISTRICT |
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| -S- | = SANITARY SEWER LINE | | = BRANCH |
| SSE | = SANITARY SEWER EASEMENT | | = EXISTING CONTOURS (DASHED) |
| MH | = MANHOLE | -912- | = PROPOSED CONTOURS (SOLID) |
| -G- | = GAS LINE | TC | = TOP OF CURB ELEVATION |
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| -W- | = PLUGGED STUB | L.P. | = LIGHT POLE (○) |
| ⋈ | = GATE VALVE | | |
| F.H. | = EXIST. FIRE HYDRANT (⊛) | | |

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

TOTAL AREA = 2.446 ACRES
TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)

*SEPTIC TANK NOTES:
EXISTING SEPTIC TANK SHALL BE PUMPED OUT BY A LICENSED SEPTIC TANK COMPANY AND HAULED TO AN APPROVED LANDFILL. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING SEPTIC TANK DRAIN FIELD EXCAVATION SHALL BE REMOVED FROM THE SITE TO AN APPROVED LOCATION. SUITABLE MATERIAL SHALL BE PROPERLY INCORPORATED INTO THE ONSITE FILLS.

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX

GSWCC LEVEL II CERT. NO. 15923
8/19/2017
SIGNATURE EXP. DATE
MARK A. MILLER
PRINTED NAME

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

THE FIRM OF ACR ENGINEERING, INC. DOES NOT CERTIFY TO THE ACCURACY OR THE LOCATION OF ANY UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN HEREON. CONTACT THE UTILITIES PROTECTION CENTER AT 811 PRIOR TO ANY CONSTRUCTION.

CALL 811 BEFORE YOU DIG
811 IT'S A DIGGING PARTNER


ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


EROSION AND SEDIMENTATION CONTROL PLAN PHASE 2
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 8 of 17

| PIPE STRUCTURE | d (FEET) | 3d (FEET) | $Q_{25}$ (CFS) | $V_{25}$ (FPS) | La (FEET) | $W_1$ (FEET) | $W_2$ (FEET) | d50 (INCH) | Dmax (INCH) | D (INCH) | N.S.A. NO. | FILTER STONE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HW J-1 | 2.5 | 7.5 | 31.05 | 7.2 | 15 | 7.5 | 22.5 | 6 | 12 | 12 | R-3 | FS-2 |

N/F
BOARD OF REGENTS OF THE UNIVERSITY SYSTEM OF GA
D.B. 5511, PG. 281
TAX ID
18-360-1-128

SOIL SURVEY DATA
AmC – Appling–sandy loam, 6 to 10 percent slopes
AuC – Appling–Urban land complex, 2 to 10 percent slopes

LOCATION OF SOILS IS AS SHOWN ON THE WEB SOIL SURVEY BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.

NOTE:
PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

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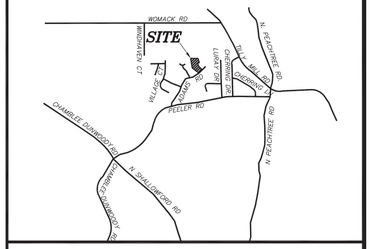


VICINITY MAP
NOT TO SCALE

**EROSION CONTROL SCHEDULE**

STAGE 1: CLEARING & GRUBBING
- INSALL CONSTRUCTION EXIT (Co)
- INSTALL SILT FENCE (Sd1)
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- SPREAD TEMPORARY MULCHING (Ds1)

STAGE 2: GRADING
- PLACE RIP-RAP (St)
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- REMOVE CONSTRUCTION EXIT (Co)

NOTE: (St) TO BE INSTALLED OUTSIDE OF THE LIMITS OF DISTURBANCE TO BE DONE WITHOUT USING EQUIPMENT THAT WILL DISTURB THE GROUND.

NOTE:
1. THERE IS NO OFF SITE LAKE WITHIN 500' OF SITE.
2. THIS SITE DOES CONTAIN STATE WATERS REQUIRING 50' UNDISTURBED BUFFER AND 75' IMPERVIOUS SETBACK.
3. THIS SITE DOES NOT CONTAIN WETLANDS.
4. A. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
B. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
C. A 50' FOOT UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.
4. ALL SEDIMENT TRAPS (INLET STRUCTURES) SHALL HAVE DOUBLE ROW OF SILT FENCE SEPARATED BY TWO FOOT MINIMUM. THE STREAM & STREAM BUFFERS ARE THE CRITICAL AREA. A DOUBLE ROW OF SILT FENCE WILL BE USED TO PROTECT THESE AREAS.
5. ALL SILT FENCES ARE TYPE "C" RUNOFF FROM ALL DISTURBED AREAS SHALL BE DIRECTED TOWARDS THE EXISTING DETENTION POND DURING CONSTRUCTION.
6. THE PLAN DESIGNER HAS VISITED THE SITE PRIOR TO THE DESIGN OF THE EA&SC PLANS.
7. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

THE INSTALLATION IF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

NOTIFY CITY OF DUNWOODY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION.

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LEGEND

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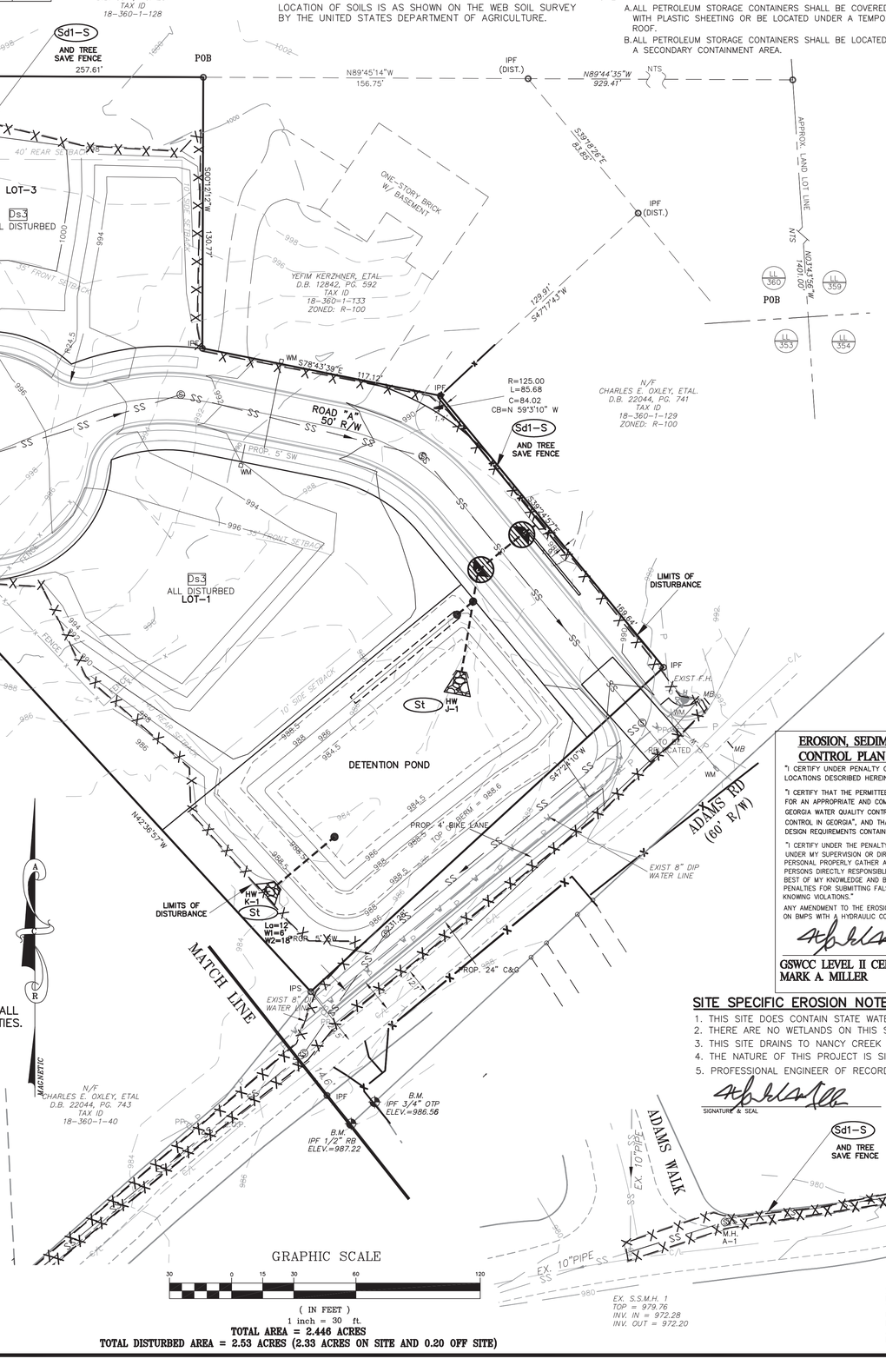


GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft

**TOTAL AREA = 2.446 ACRES**
**TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)**

STORMWATER POLLUTION CONTROL NOTES

1. During Construction: During the construction process, pollutants in stormwater will be controlled by use of the following: A crushed stone construction entrance; sediment barriers and traps; a temporary sediment basin and diversions; a concrete wash down area; a Detention pond; temporary seeding and mulching; and erosion control matting and blankets.

2. After Construction: After the construction operations have been completed, pollutants in stormwater will be controlled by use of the following: a permanent water quality pond; rip-rap outlet protection; and establishment of permanent vegetation.

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4. REPAIR EQUIPMENT IMMEDIATELY, IF NECESSARY.

IF THERE IS A PETROLEUM SPILL ON SITE:
1. CONTAIN THE SPILL TO AS SMALL OF AN AREA AS POSSIBLE.
2. TRANSFER FLUIDS AND OIL FILTERS TO AN AUTHORIZED WASTE OR RECYCLING CENTER.

**EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CERTIFICATIONS**

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

"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 SEDIMENTATION CONTROL IN GEORGIA", AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE DESIGN REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

"I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY SUPERVISION OR DIRECTION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONAL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED UPON MY INQUIRY OF THE 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."

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GSWCC LEVEL II CERT. NO. 15923, EXP. 8/19/2017
MARK A. MILLER

**SITE SPECIFIC EROSION NOTES:**

1. THIS SITE DOES CONTAIN STATE WATERS.
2. THERE ARE NO WETLANDS ON THIS SITE.
3. THIS SITE DRAINS TO NANCY CREEK .
4. THE NATURE OF THIS PROJECT IS SINGLE FAMILY LOTS.
5. PROFESSIONAL ENGINEER OF RECORD HAS VISITED THE PROPOSED SITE.

SIGNATURE & SEAL

*SEPTIC TANK NOTES:
EXISTING SEPTIC TANK SHALL BE PUMPED OUT BY A LICENSED SEPTIC TANK COMPANY AND HAULED TO AN APPROVED LANDFILL. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING SEPTIC TANK DRAIN FIELD EXCAVATION SHALL BE REMOVED FROM THE SITE TO AN APPROVED LOCATION. SUITABLE MATERIAL SHALL BE PROPERLY INCORPORATED INTO THE ONSITE FILLS.

**EROSION NOTES:**
**1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLTION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.**
**2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. EROSION CONTROL PLAN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE AND AND INSTALLATION OF CONTROL DEVICES SHALL FOLLOW SUCH.
4. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 VOLUME.
5. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
6. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION.
7. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBANCE ACTIVITIES.
8. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE-INSPECTION.
9. DISTURBED AREAS LEFT IDLE FOR TWO WEEKS, AND NOT FINAL GRADED, WILL BE ESTABLISHED TO TEMPORARY VEGETATION (DS2). DISTURBED AREAS LEFT IDLE FOR FOUR WEEKS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION (DS3). ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN TWO WEEKS OF FINAL PLANTING. WHEN HAND PLANTING, MULCH, (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREAS WITHIN 24 HOURS OF SEEDING.
10. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ON-SITE.
11. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
12. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER (DS1) ON SLOPES THAT ARE 4:1 OR STEEPER. MULCH WILL BE ANCHORED.
13. ALL EROSION CONTROL DEVICES AND SEDIMENT PONDS SHALL BE IN PLACE PRIOR TO ANY GRADING ON THE SITE.
14. IF SILT COLLECTS WITHIN 1' OF TOP OF BARRIER, BARRIER IS TO BE CLEANED OR REPLACED.
15. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

GSWCC LEVEL II CERT. NO. 15923
SIGNATURE 8/19/2017 EXP. DATE
MARK A. MILLER
PRINTED NAME

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

THE FIRM OF ACR ENGINEERING, INC. DOES NOT CERTIFY TO THE ACCURACY OR THE LOCATION OF ANY UNDERGROUND UTILITIES EITHER SHOWN OR NOT SHOWN HEREON. CONTACT THE UTILITIES PROTECTION CENTER AT 811 PRIOR TO ANY CONSTRUCTION.

CALL 811 BEFORE YOU DIG
811 BEFORE YOU DIG

CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX


ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


EROSION AND SEDIMENTATION CONTROL PLAN PHASE 2
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

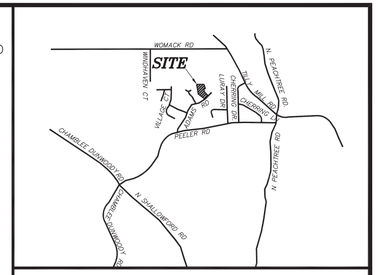
BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 9 of 17

1. DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

2. ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338

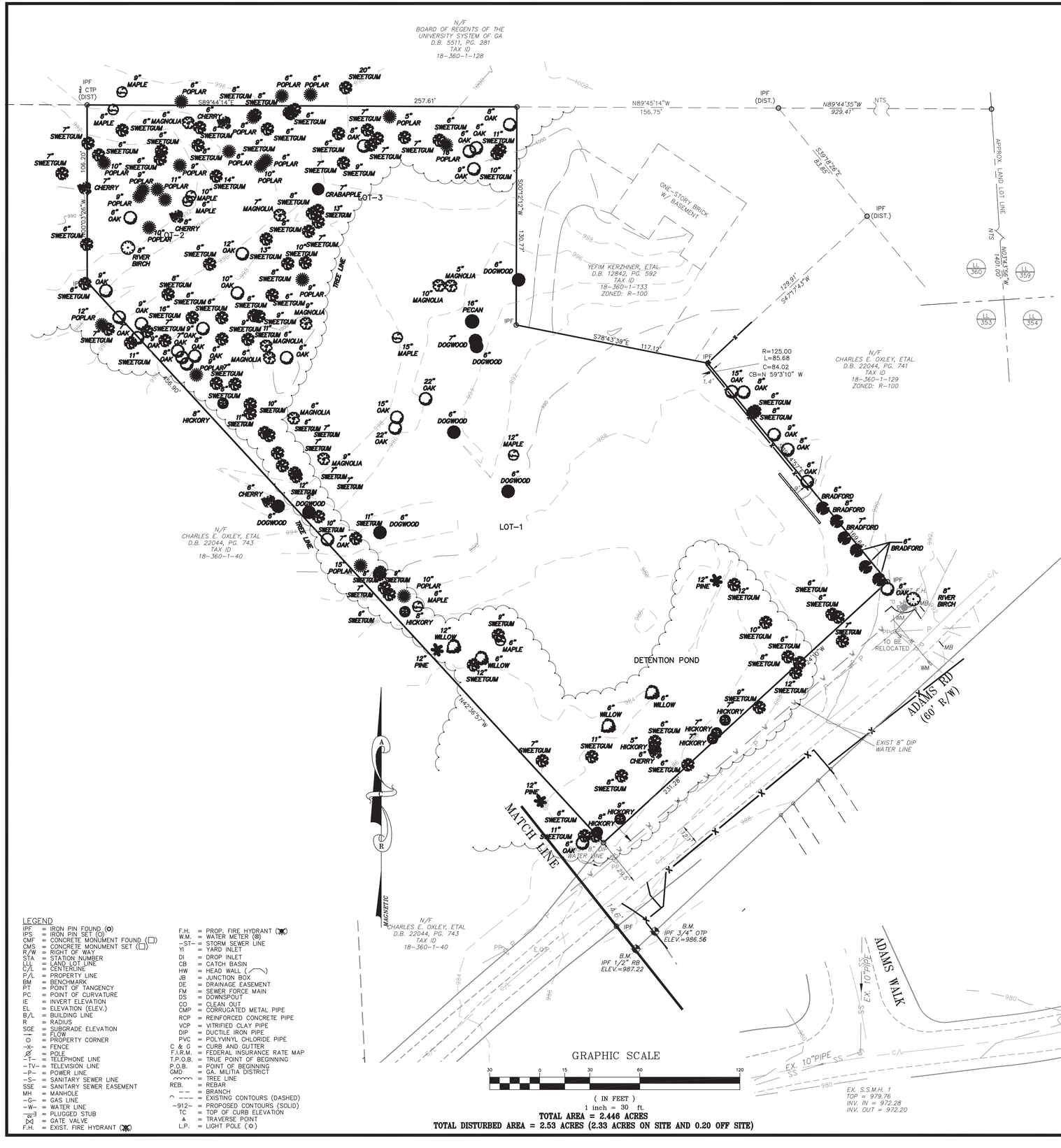



VICINITY MAP

NOT TO SCALE

LEGEND

EXISTING TREE




LEGEND

| | |
|---|---|
| IPF | = IRON PIN FOUND (●) |
| IPS | = IRON PIN SET (○) |
| CMF | = CONCRETE MONUMENT FOUND (□) |
| CMS | = CONCRETE MONUMENT SET (□) |
| R/W | = RIGHT OF WAY |
| STA | = STATION NUMBER |
| LLL | = LAND LOT LINE |
| C/L | = CENTERLINE |
| P/L | = PROPERTY LINE |
| BM | = BENCHMARK |
| PT | = POINT OF TANGENCY |
| PC | = POINT OF CURVATURE |
| IE | = INVERT ELEVATION |
| EL | = ELEVATION (ELEV.) |
| B/L | = BUILDING LINE |
| R | = RADIUS |
| SGE | = SUBGRADE ELEVATION |
| | = FLOW |
| O | = PROPERTY CORNER |
| -X- | = FENCE |
| Ø | = POLE |
| -T- | = TELEPHONE LINE |
| -TV- | = TELEVISION LINE |
| -P- | = POWER LINE |
| -S- | = SANITARY SEWER LINE |
| SSE | = SANITARY SEWER EASEMENT |
| MH | = MANHOLE |
| -G- | = GAS LINE |
| -W- | = WATER LINE |
| | = PLUGGED STUB |
| | = GATE VALVE |
| F.H. | = EXIST. FIRE HYDRANT (※) |
| F.H. | = PROP. FIRE HYDRANT (※) |
| W.M. | = WATER METER (⊗) |
| -ST- | = STORM SEWER LINE |
| YI | = YARD INLET |
| DI | = DROP INLET |
| CB | = CATCH BASIN |
| HW | = HEAD WALL |
| JB | = JUNCTION BOX |
| DE | = DRAINAGE EASEMENT |
| FM | = SEWER FORCE MAIN |
| DS | = DOWNSPOUT |
| CO | = CLEAN OUT |
| CMP | = CORRUGATED METAL PIPE |
| RCP | = REINFORCED CONCRETE PIPE |
| VCP | = VITRIFIED CLAY PIPE |
| DIP | = DUCTILE IRON PIPE |
| PVC | = POLYVINYL CHLORIDE PIPE |
| C & G | = CURB AND GUTTER |
| F.I.R.M. | = FEDERAL INSURANCE RATE MAP |
| T.P.O.B. | = TRUE POINT OF BEGINNING |
| P.O.B. | = POINT OF BEGINNING |
| GMD | = GA. MILITIA DISTRICT |
| | = TREE LINE |
| REB. | = REBAR |
| | = BRANCH |
| | = EXISTING CONTOURS (DASHED) |
| -912- | = PROPOSED CONTOURS (SOLID) |
| TC | = TOP OF CURB ELEVATION |
| | = TRAVERSE POINT |
| L.P. | = LIGHT POLE (☼) |

GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 inch = 30 ft.

**TOTAL AREA = 2.446 ACRES**

**TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)**

811 CALL 811 BEFORE YOU DIG SAFE DIGGING PARTNER

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318-5154

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CITY OF DUNWOODY PROJECT #: 2016-XXXXX
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ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


# TREE SURVEY
FOR
# 4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
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CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP_16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 10 Of 17

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4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318-5154

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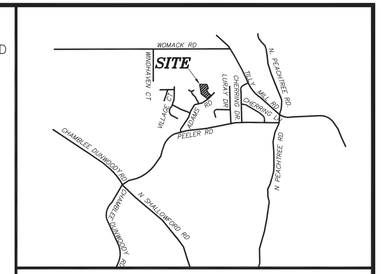
CONTACT: ABBAS HEIDARI
PHONE: (678) 291-0000

PROPERTY ADDRESS
4860 ADAMS ROAD
DUNWOODY, GA 30338




VICINITY MAP

NOT TO SCALE

## PRESERVED TREE DENSITY UNITS PER LOT:

| LOT # | PRES. TREE | # OF TREES | TOTAL UNITS |
|---|---|---|---|
| 1) | 6" DOGWOOD | 1 | 0.3 |
| | 6" WILLOW | 1 | 0.3 |
| | 6" MAPLE | 1 | 0.3 |
| | 7" SWEETGUM | 2 | 0.6 |
| | 7" OAK | 1 | 0.3 |
| | 8" SWEETGUM | 1 | 0.5 |
| | 8" HICKORY | 1 | 0.5 |
| | 9" SWEETGUM | 1 | 0.5 |
| | 10" SWEETGUM | 1 | 0.6 |
| | 10" POPLAR | 1 | 0.6 |
| | 12" SWEETGUM | 1 | 0.8 |
| | 12" WILLOW | 1 | 0.8 |
| 2) | 6" SWEETGUM | 2 | 0.6 |
| | 6" MAPLE | 1 | 0.3 |
| | 6" MAGNOLIA | 1 | 0.3 |
| | 6" CHERRY | 1 | 0.3 |
| | 6" POLAR | 1 | 0.3 |
| | 7" SWEETGUM | 1 | 0.3 |
| | 7" OAK | 1 | 0.3 |
| | 8" POPLAR | 1 | 0.5 |
| | 8" SWEETGUM | 1 | 0.5 |
| | 9" OAK | 1 | 0.5 |
| 3) | 6" SWEETGUM | 3 | 0.9 |
| | 6" OAK | 2 | 0.6 |
| | 7" SWEETGUM | 3 | 0.9 |
| | 8" OAK | 2 | 1.0 |
| | 10" SWEETGUM | 1 | 0.6 |
| | 11" SWEETGUM | 1 | 0.8 |
| | 16" POPLAR | 1 | 1.2 |
| POND) | 7" SWEETGUM | 1 | 0.3 |
| | 8" HICKORY | 1 | 0.5 |
| | 9" HICKORY | 1 | 0.5 |

TOTAL (RTF): 17.3 UNITS

## LEGEND

EXISTING TREE (18"PN)

EXISTING TREE TO BE PRESERVED (18"PN)

## TREE PRESERVATION/REPLACEMANT:

TDF (TREE DENSITY FACTOR): 2.446 AC. x 20 UNITS/AC = 49 UNITS

RDF (REMAINING TREE FACTOR): 17.3 UNITS

RRD (REQ'D. REPLACEMENT DENSITY) = TDF – RDF

RRD = 31.7 UNITS

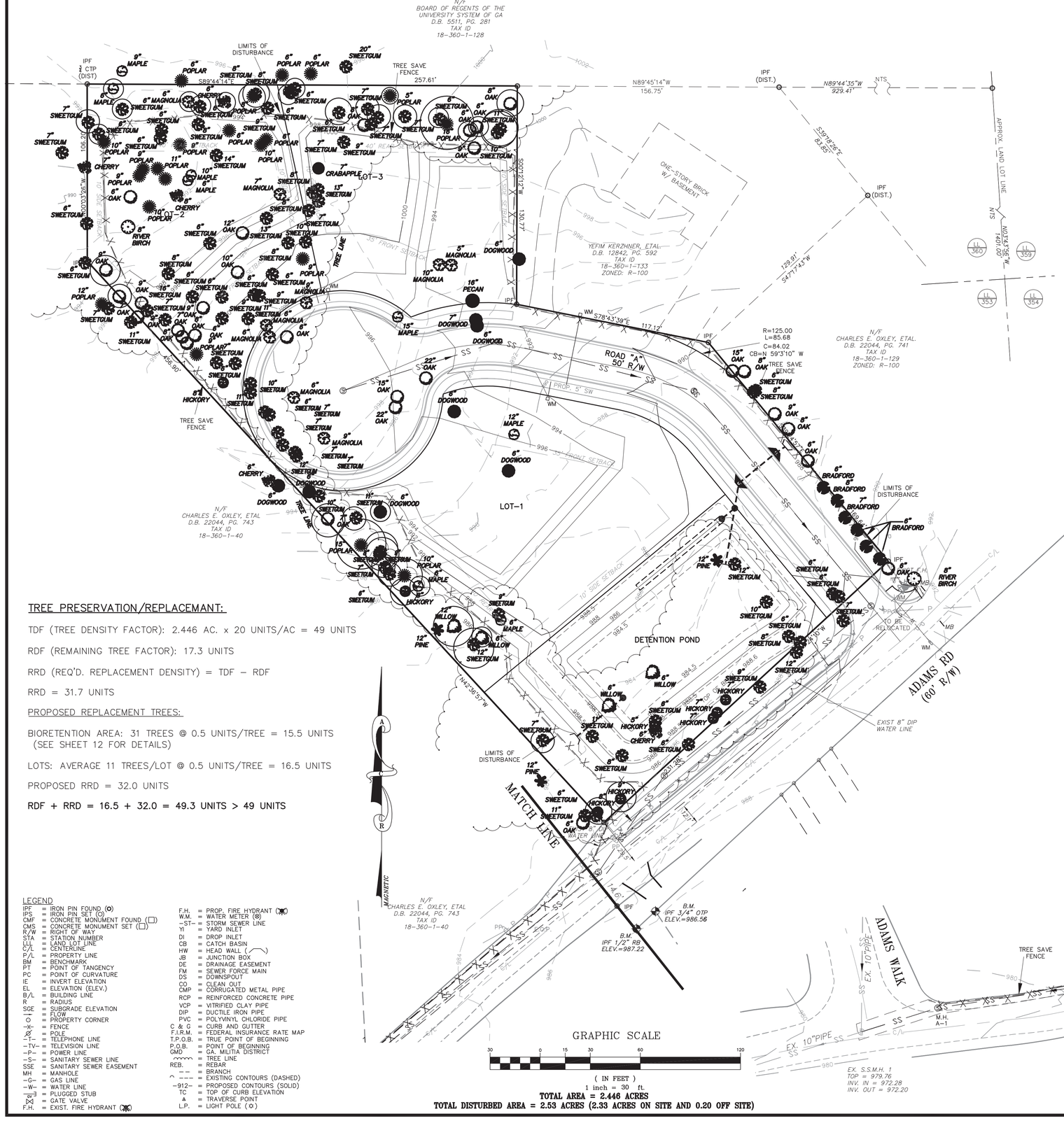
PROPOSED REPLACEMENT TREES:

BIORETENTION AREA: 31 TREES @ 0.5 UNITS/TREE = 15.5 UNITS
(SEE SHEET 12 FOR DETAILS)

LOTS: AVERAGE 11 TREES/LOT @ 0.5 UNITS/TREE = 16.5 UNITS

PROPOSED RRD = 32.0 UNITS

**RDF + RRD = 16.5 + 32.0 = 49.3 UNITS > 49 UNITS**




LEGEND

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| LLL | = LAND LOT LINE | HW | = HEAD WALL |
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| BM | = BENCHMARK | FM | = SEWER FORCE MAIN |
| PT | = POINT OF TANGENCY | DS | = DOWNSPOUT |
| PC | = POINT OF CURVATURE | CO | = CLEAN OUT |
| IE | = INVERT ELEVATION | CMP | = CORRUGATED METAL PIPE |
| EL | = ELEVATION (ELEV.) | RCP | = REINFORCED CONCRETE PIPE |
| B/L | = BUILDING LINE | VCP | = VITRIFIED CLAY PIPE |
| R | = RADIUS | DIP | = DUCTILE IRON PIPE |
| SGE | = SUBGRADE ELEVATION | PVC | = POLYVINYL CHLORIDE PIPE |
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| F.H. | = EXIST. FIRE HYDRANT (🔥) | | |

GRAPHIC SCALE

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( IN FEET )

1 inch = 30 ft.

**TOTAL AREA = 2.446 ACRES**

**TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)**

*SEPTIC TANK NOTES:
EXISTING SEPTIC TANK SHALL BE PUMPED OUT BY A LICENSED SEPTIC TANK COMPANY AND HAULED TO AN APPROVED LANDFILL. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING SEPTIC TANK DRAIN FIELD EXCAVATION SHALL BE REMOVED FROM THE SITE TO AN APPROVED LOCATION. SUITABLE MATERIAL SHALL BE PROPERLY INCORPORATED INTO THE ONSITE FILLS.

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CITY OF DUNWOODY PROJECT #: 2016-XXXXX
DEKALB COUNTY PROJECT A/P # XXXXXX


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ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


TREE PROTECTION AND REPLACEMENT PLAN
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
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| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
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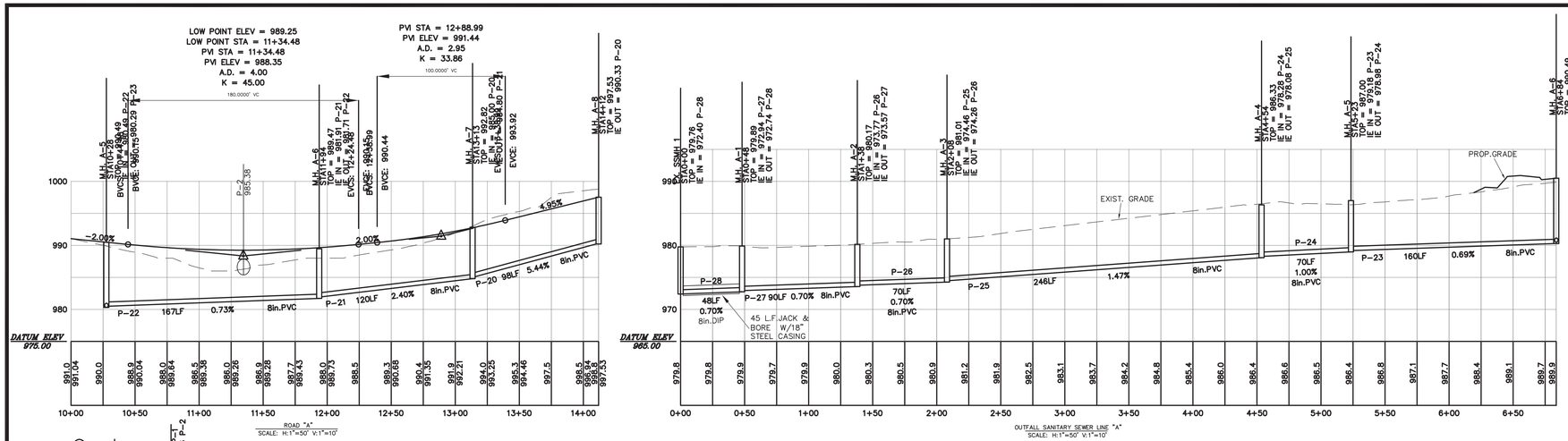
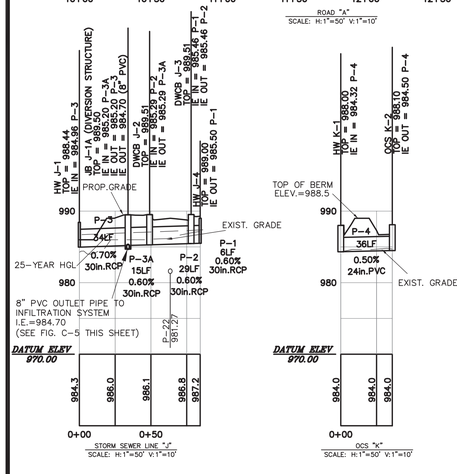
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 11 Of 17







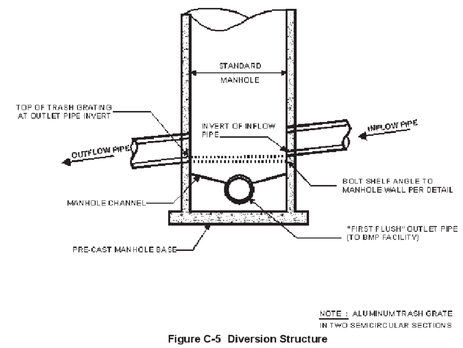



Figure C-5 Diversion Structure

INFILTRATION SYSTEM
DIVERSION STRUCTURE
(SEE PROFILE FOR ELEVATIONS)

**OFFSITE PIPE CONSTRUCTION NOTES:**

1. ALL DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE DEMOLISHED AND POURED BACK TO AN EXISTING JOINT. A UTILITY PATCH WILL NOT BE AN ADEQUATE REPAIR OF AN EXISTING DRIVEWAY.

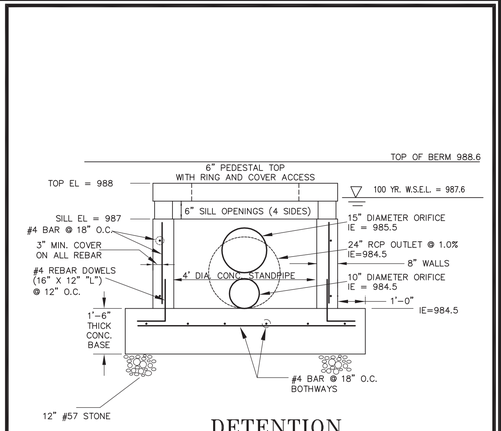
2. ANY MAILBOX, TREE OR OTHER LANDSCAPING REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

3. ALL PROPOSED STORM PIPE SHALL BE RCP CLASS III.

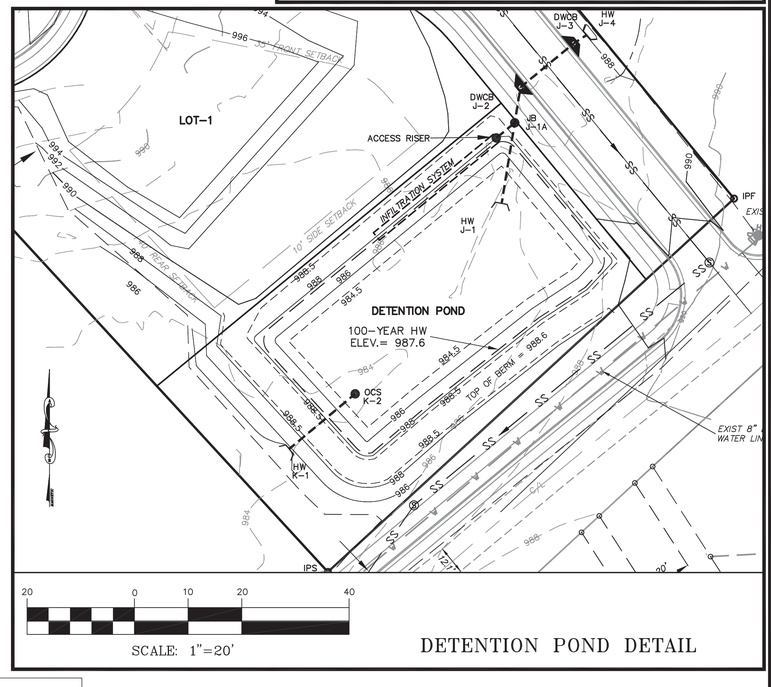
4. THE DEVELOPER AND/OR DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

5. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" PRIOR TO APPROVAL OF THE FINAL PLAT.

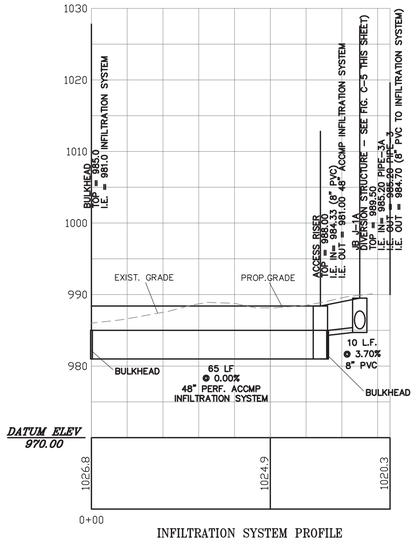
6. ALL CONSTRUCTION SHALL COMPLY WITH CITY OF DUNWOODY STANDARDS. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.

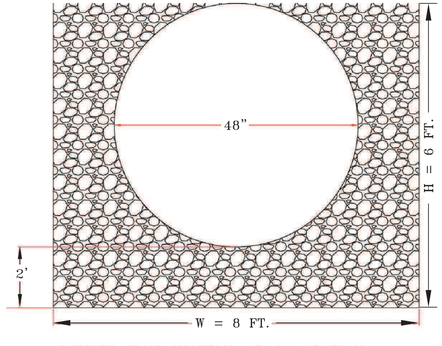



DETENTION
OUTLET CONTROL STRUCTURE
DETAIL N.T.S.

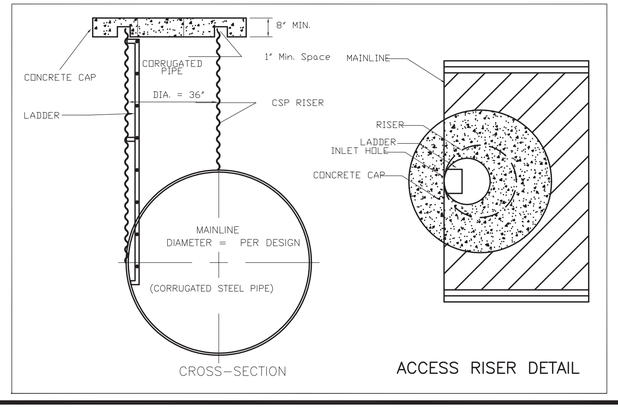



DETENTION POND DETAIL




INFILTRATION SYSTEMS CROSS SECTION
48" PERFORATED ACCMP IS 16 GUAGE




ACCESS RISER DETAIL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600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


STORM & SANITARY SEWER PROFILES
AND DETENTION POND DETAILS
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
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DESIGNED: MM DRAWN: BF

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SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 12 Of 17

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

## STRUCTURAL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Cd | CHECKDAM | | | A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow. |
| Ch | CHANNEL STABILIZATION | | | Improving, constructing or stabilizing an open channel, existing stream, or ditch. |
| Co | CONSTRUCTION EXIT | | | A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets. |
| Cr | CONSTRUCTION ROAD STABILIZATION | | | A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes. |
| Dc | STREAM DIVERSION CHANNEL | | | A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed. |
| Di | DIVERSION | | | An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure. |
| Dn1 | TEMPORARY DOWNDRAIN STRUCTURE | | | A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive. |
| Dn2 | PERMANENT DOWNDRAIN STRUCTURE | | | A lined chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope. |
| Fr | FILTER RING | | | A temporary stone barrier constructed at storm drain inlets and pond outlets. |
| Ga | GABION | | | Rock filter baskets which are hand-placed into position forming soil stabilizing structures. |
| Gr | GRADE STABILIZATION STRUCTURE | | | Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies. |
| Lv | LEVEL SPREADER | | | A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils. |
| Rd | ROCK FILTER DAM | | | A permanent or temporary stone filter dam installed across small streams or drainageways. |
| Re | RETAINING WALL | | | A wall installed to stabilize cut and fill slopes where the ultimate desirable slopes are not obtainable. Each situation will require special design. |
| Rt | RETRO FITTING | | | A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter. |
| Sd1 | SEDIMENT BARRIER | | | A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence. |
| Sd2 | INLET SEDIMENT TRAP | | | An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities. |
| Sd3 | TEMPORARY SEDIMENT BASIN | | | A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. |
| Sd4 | TEMPORARY SEDIMENT TRAP | | | A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser. |
| Sk | FLOATING SURFACE SKIMMER | | | A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow. |
| Spb | SEDI BERM | | | Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes. |

## STRUCTURAL PRACTICES

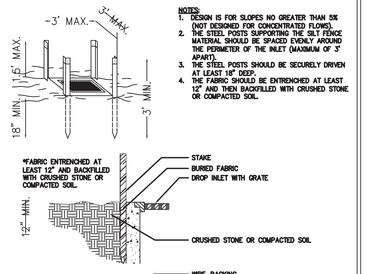
| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Sr | TEMPORARY STREAM CROSSING | | | A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment. |
| St | STORMDRAIN OUTLET PROTECTION | | | A paved or short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

## VEGETATIVE PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|---|---|---|---|---|
| Bf | BUFFER ZONE | | | Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams. |
| Cs | COASTAL DUNE STABILIZATION (WITH VEGETATION) | | Cs | Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished. |
| Ds1 | DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) | | Ds1 | Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover. |
| Ds2 | DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING) | | Ds2 | Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. |
| Ds3 | DISTURBED AREA STABILIZATION (WITH PERM. SEEDING) | | Ds3 | Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. |
| Ds4 | DISTURBED AREA STABILIZATION (SODDING) | | Ds4 | A permanent vegetative cover using sods on highly erodable or critically eroded lands. |
| Du | DUST CONTROL ON DISTURBED AREAS | | Du | Controlling surface and air movement of dust on construction site, roadways and disturbed areas. |
| Fl-Co | FLOCCULANTS AND COAGULANTS | | Fl-Co | Substance formulated to assist in the solids/liquid separation of suspended particles in solution. |
| Sb | STREAMBANK STABILIZATION (USING PERM. VEGETATION) | | Sb | The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems. |
| Ss | SLOPE STABILIZATION | | Ss | A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels. |
| Tac | TACKIFIERS AND BINDERS | | Tac | Substance used to anchor straw or hay mulch by causing the organic material to bind together. |

## FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

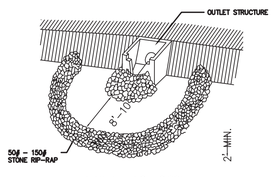
STEEL FRAME AND SILT FENCE INSTALLATION



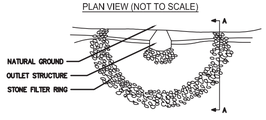

NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

## STONE FILTER RING

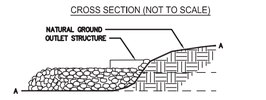
PERSPECTIVE VIEW




PLAN VIEW (NOT TO SCALE)




CROSS SECTION (NOT TO SCALE)




## Ds1 MULCHING

USE MULCH ON ALL SLOPES STEEPER THAN 3%; WHEN SEEDINGS ARE MADE SO LATE IN THE FALL AND WINTER THAT GERMINATION CANNOT BE EXPECTED UNTIL SPRING; IN THE BOTTOM OF SPILLWAYS; AND ON ROADBANKS. TEMPORARY VEGETATION SEEDED ALONE MAY BE ESTABLISHED ON GOOD SITES WITHOUT THE USE OF MULCH.

MULCHING MATERIAL WILL CONSIST OF:
A. USE DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS. DRY STRAW WILL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY WILL BE USED AT A RATE OF 2.5 TONS PER ACRE;OR,
B. FOR HYDRAULIC SEEDING, USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE AND DRY STRAW OR DRY HAY AT THE RATE LISTED IN "A" ABOVE;OR,
C. FOR HYDRAULIC SEEDING ON SLOPES 3'/4:1 OR STEEPER, 1,000 POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER WHICH INCLUDES A TACKIFIER MAY BE SUBSTITUTED FOR THE TREATMENT IN "B" ABOVE;OR,
D. USE THREE TONS PER ACRE OF SERICEA LESPEDEZA HAY CONTAINING MATURE SEED;OR,
E. APPLY PINE STRAW OR PINE BARK AT A THICKNESS OF 3INCHES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED;OR,
F. SOIL RETENTION BLANKETS, EROSION CONTROL NETTING, OTHER MANUFACTURED MATERIALS, OR BLOCK SOD MAY BE REQUIRED IN ADDITION TO MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY WILL HAVE THE PROPERTY TO BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL HAVE A CONTRASTING COLOR TO THE SOIL TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH
A. STRAW OR HAY MULCH WILL 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. ABOUT 75% OF THE SOIL SURFACE WILL BE COVERED.
B. WOOD CELLULOSE OR WOOD FIBER MULCH WILL BE APPLIED WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH
A. ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE F OLLOWING METHODS:
1. BY EMULSIFIED ASPHALT,(A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE, OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.
2. PRESS THE MULCH 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.
3. APPLY SYNTHETIC TACKIFIERS OR BINDERS APPLIED IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS WILL BE MIXED AND APPLIED TO MANUFACTURES SPECIFICATIONS.
PLEASE REFER TO SPECIFICATION: Ts– Tackifiers and Binders.
4. FALL AND WINTER PLANTINGS MAY INCLUDE 1/2 BUSHEL OF RYE OR WHEAT TO STABILIZE THE MULCH.
5. PLASTIC MESH OR NETTING WITH NO LARGER THAN ONE INCH BY ONE INCH MESH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS.
B. WHERE WOOD CELLULOSE OR WOOD PULP FIBER MULCH IS APPLIED ALONE, A TACKIFIER WILL BE USED.
PLEASE REFER TO SPECIFICATION: Ts– Tackifiers and Binders.

LIME AND MAINTENANCE APPLICATION
APPLY ONE TON OF AGRICULTURAL LIME PER ACRE EVERY 4 TO 6 YEARS.

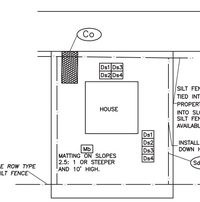
**General Erosion Control Notes:**
A. Additional erosion control measures will be employed where determined necessary by actual site conditions.
B. Prior to any other construction, a stabilized construction entrance shall be constructed a each if entry to or exit from the site.
C. The construction exists shall be maintained in a condition which will prevent tracking of flow of mud onto public right-of-way. This may require periodic top dressing with stone, as conditions demands, and repair and/or clean-out of any structures used to trap sediment.
D. All materials spilled, dropped, washed, or tracked from vehicle onto public roadway or into storm drain must be removed.
E. Prior to commencing land disturbance activity the limits of land disturbance shall be clearly and accurately demarcated with stakes, ribbons, or other appropriate means. The location and extent of all authorized land disturbance shall occur outside the approved limits indicated on the approved plans.
F. Immediately after the establishment of construction entrances/exits, all perimeter erosion control devices and stormwater management devices shall be installed prior to any other construction.
G. Owner agrees to provide and maintain off-street parking on the subject property during the entire construction period.
H. The contractor shall furnish and maintain all necessary barricades while roadway frontage improvements are being made.
I. The construction of the site will initiate with the installation of erosion control measures sufficient to control sediment costs and erosion. All sediment control will be maintained until all upstream ground within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.
J. Erosion control devices shall be installed immediately after ground disturbance occurs. The location of some of the erosion control devices may have to be altered from that shown on the approved plans if drainage patterns during construction are different from the final proposed drainage patterns. It is the contractor's responsibility to accomplish erosion control for all drainage patterns created at various stages during construction. Any difficulty in controlling erosion during any phase of construction shall be reported to the engineer immediately.
K. All silt barriers must be placed as access is obtained during clearing. No grading shall be done until silt barrier installation and detention facilities are constructed.
L. Failure to install, operate or maintain all erosion control measures will result in construction being stopped on the job site until such measures are corrected back to the DEKALB COUNTY standards.
M. A copy of the approved land disturbance plan and permit shall be present on site whenever land disturbance activity is in progress.
N. All sewer easements disturbed must be dressed and grassed to control erosion.
O. Silt barriers to be placed at downstream to of all cut ad fill slopes. P. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with temporary seeding.

## Ds3 PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

| SPECIES | RATES PER 1000 SQ.FT. | RATES PER ACRE* | PLANTING DATES |
|---|---|---|---|
| BAHIA | 1.4 LB. | 60 LBS. | 1/1-12/31 |
| BERMUDA | 0.2 LB. | 10 LBS. | 2/15-7/1 |
| CENTIPEDE | BLOCK SOD ONLY | BLOCK SOD ONLY | 4/1-7/1 |
| LESPEDEZA | 1.7 LB. | 75 LBS. | 1/1-12/31 |
| WEEPING LOVE GRASS | 0.1 LB. | 4 LBS. | 2/1-6/15 |
| SWITCH GRASS | 0.9 LB. | 40 LBS. | 3/15-6/1 |

## FERTILIZER REQUIREMENTS

| TYPE OF SPECIES | YEAR | ANALYSIS OR EQUIV N-P-K | RATE | N TOP DRESSING RATE |
|---|---|---|---|---|
| 1.COOL SEASON GRASSES | FIRST<br>SECOND<br>MAINTEN | 6-12-12<br>6-12-12<br>10-10-10 | 1500lbs/ac<br>1000lbs/ac<br>400 lbs/ac | 50-100lbs/ac 1/2/<br>30 |
| 2.COOL SEASON GRASSES/LEGUMES | FIRST<br>SECOND<br>MAINTEN | 6-12-12<br>6-10-10<br>0-10-10 | 1500lbs/ac<br>1000lbs/ac<br>400lbs/ac | 0-50 lbs/ac 1/<br>– |
| 3.GROUND COVER | FIRST<br>SECOND<br>MAINTEN | 10-10-10<br>10-10-10<br>10-10-10 | 1300lbs/ac<br>1300lbs/ac<br>1100lbs/ac | –<br>–<br>– |
| 4.PINE SEEDINGS | FIRST | 20-10-5 | one 21gram pellet per seed | – |
| 5.SHRUB LESPEDEZA | FIRST<br>MAINTEN | 0-10-10<br>0-10-10 | 700lbs/ac<br>700lbs/ac | –<br>– |
| 6.TEMP. COVER CROPS SEEDED ALONE | FIRST | 10-10-10 | 500lbs/ac | 30 lbs/ac 5/ |
| 7.WARM SEASON GRASSES | FIRST<br>SECOND<br>MAINTEN | 6-12-12<br>6-12-12<br>10-10-10 | 1500lbs/ac<br>800lbs/ac<br>400lbs/ac | 50-100lbs/ac 2/6<br>50-100lbs/ac 2/<br>30 lbs/ac |
| 8.WARM SEASON GRASSES AND LEGUMES | FIRST<br>SECOND<br>MAINTEN | 6-12-12<br>0-10-10<br>0-10-10 | 1500lbs/ac<br>1000lbs/ac<br>400lbs/ac | 50lbs/ac 6/ |




NOTE: INDIVIDUAL LOT OWNERS ARE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE.

TYPICAL BMP DESIGN
INDIVIDUAL LOT EROSION & SEDIMENT CONTROL PLAN
NTS

## Di DIVERSION

SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

COMPLETE THE APPROPRIATE DETAIL DRAWING FOR THE CHANNEL CROSS-SECTION OF CHOICE:

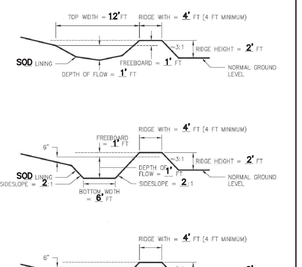
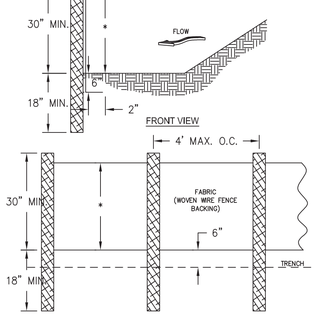



Figure 6-17.2

GSWCC (Amended 2013) 6-154

## SILT FENCE - TYPE SENSITIVE




NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

## Sd4–C DETAIL

TEMPORARY SEDIMENT TRAP
COURTESY OF CITY OF WOODSTOCK EROSION AND SEDIMENT
ROCK OUTLET

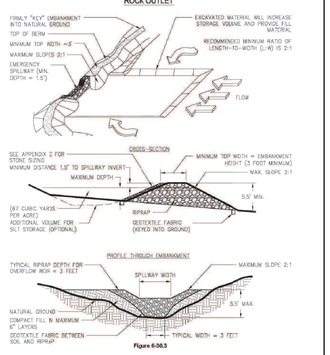


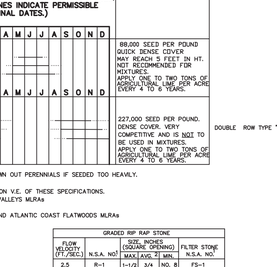

Figure 6-38.3

6-241 GSWCC (Amended - 2013)

## Dn2 PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER 1/

| SPECIES | BROADCAST RATES 2/ PLS 3/ PER ACRE | BROADCAST RATES 2/ PLS 3/ PER 1000 SQ.FT. | RESOURCE AREA 4/ | PLANTING DATES BY RESOURCE AREA (SOLID LINES INDICATES OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.) J F M A M J J A S O N D | REMARKS |
|---|---|---|---|---|---|
| MILLET, PEARL (PENNISETUM GLAUCUM) ALONE | 50 LBS. | 1.1 LB. | M–L P C | J F M A M J J A S O N D | 88,000 SEED PER POUND QUICK DENSE COVER MAY REACH 5 FEET IN HT. NOT RECOMMENDED FOR MIXTURES. APPLY ONE TO TWO TONS OF AGRICULTURAL LIME PER ACRE EVERY 4 TO 6 YEARS. |
| RYEGRASS, ANNUAL (LOLIUM TEMULENTUM) ALONE | 260 LBS. | 6 LB. | M–L P C | J F M A M J J A S O N D | 227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES. APPLY ONE TO TWO TONS OF AGRICULTURAL LIME PER ACRE EVERY 4 TO 6 YEARS. |

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. REFER TO SECTION V.E. OF THESE SPECIFICATIONS.
4/ M–L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRAs
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS THE SOUTHERN COASTAL PLAIN; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRAs




NOTE: INDIVIDUAL LOT OWNERS ARE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE.

TYPICAL BMP DESIGN
INDIVIDUAL LOT EROSION & SEDIMENT CONTROL PLAN
FOR LOTS 14–20
NTS

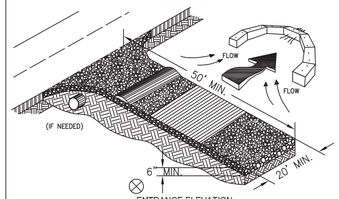
| FILTER BEDDING STONE | | | |
|---|---|---|---|
| N.S.A. NO.1 | SIZE INCHES (SQUARE OPENING) MAX. | AVG. 2 | MIN.2 |
| FS–1 | 3/8 | #30 MESH | #100 MESH |
| FS–2 | 2 | #4 | #100 MESH |
| FS–3 | 6–1/2 | 2–1/2 | #16 |

1. NATIONAL STONE ASSOCIATION
2. AT LEAST 50% OF THE INDIVIDUAL STONE SIZES SHALL BE EQUAL OR LARGER THAN THE CENTER SIZE.

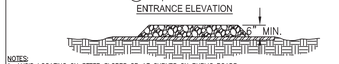
| GRADED RIP RAP STONE | | | | |
|---|---|---|---|---|
| FLOW VELOCITY (FT./SEC.) | N.S.A. NO.1 | SIZE INCHES (SQUARE OPENING) MAX. | AVG. 2 | MIN. | FILTER STONE N.S.A. NO. |
| 2.5 | R–1 | 1–1/2 | 3/4 | NO. 8 | FS–1 |
| 4.5 | R–2 | 3 | 1–1/2 | 1 | FS–1 |
| 6.5 | R–3 | 6 | 3 | 2 | FS–2 |
| 9.0 | R–4 | 12 | 6 | 3 | FS–2 |
| 11.5 | R–5 | 18 | 9 | 5 | FS–2 |
| 13.0 | R–6 | 24 | 12 | 7 | FS–3 |
| 14.5 | R–7 | 30 | 15 | 12 | FS–3 |

## CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



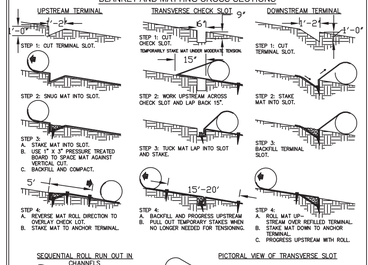

ENTRANCE ELEVATION



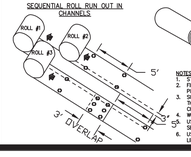

NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R–2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

## TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

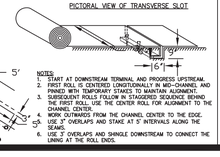
BLANKET AND MATTING CROSS-SECTIONS




SEQUENTIAL ROLL RUN OUT IN CHANNELS



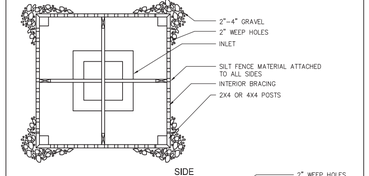

PICTORAL VIEW OF TRANSVERSE SLOT



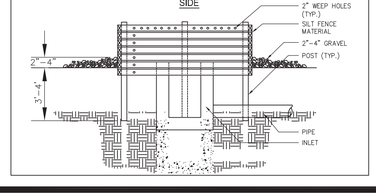

NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID–CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.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

## BAFFLE BOX

PLAN




SIDE





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# EROSION CONTROL DETAILS FOR 4860 ADAMS ROAD

L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

24 HOUR EMERGENCY CONTACT:
BILL PROBST (770) 318–5154

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 13 Of 17

1. DEVELOPER: DUKE LAND GROUP
4828 ASHFORD DUNWOODY ROAD
SUITE 300
ATLANTA, GEORGIA 30338
CONTACT: BILL PROBST
PHONE: (770) 318–5154

2. ENGINEER: ACR ENGINEERING, INC.
600 PINNACLE COURT
SUITE 685
NORCROSS, GEORGIA 30071
CONTACT: ABBAS HEIDARI
PHONE: (678) 291–0000

# EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

I. SITE DESCRIPTION

A. These plans are issued for CONSTRUCTION OF SINGLE FAMILY SUBDIVISION.

B. MAJOR CONSTRUCTION ACTIVITY SEQUENCE
(refer to the major Construction Activity Table on this sheet)

C. TOTAL SITE AREA: 2.446 ACRES
TOTAL DISTURBED AREA = 2.53 ACRES (2.33 ACRES ON SITE AND 0.20 OFF SITE)

D. The runoff coefficient for the existing, pre–developed condition is CN=55 Water quality for the existing site is consistent with runoff from a wooded area with steep slopes. The runoff coefficient for the developed site is approximately CN=71. Detention is provided.

E. See ES&PC plan for drainage patterns, areas of disturbance, structural and nonstructural controls, areas to be stabilized, surface waters, and points of storm water discharge.

F. Runoff from this phase of development flows into a tributary of Nancy Creek

G. SECONDARY PERMITTEES

Utilities:
TELEPHONE:
BELL SOUTH
1525 HEMBREE ROAD
ROSWELL, GEORGIA 30004
PHONE: 770–493–3796
CONTACT: MATT HILL

ELECTRICITY:
GEORGIA POWER
11675 WILLS RD BLDG 1
ALPHARETTA, GA 30009
PHONE: 888–660–5890

DEVELOPER:
Duke Land Group
4828 Ashfor Dunwoody Road
Suite 300
Atlanta, GA 30338
Phone: (678) 58–6889 Contact:
BILL PROBST

GAS PIPELINE:
Atlanta Gas Light Company
303 Peachtree Street, N.E.
ATLANTA, GEORGIA 30308
PHONE: (404) 584–4000
CONTACT: Shane Dinsmor
CABLE:
COMCAST CABLE
2925 COURTYARDS DR.
NORCROSS, GEORGIA 30071
PHONE: 770–559–2762
CONTACT: SONNY MARTINEZ

II. CONTROLS
A. Control Implementation Schedule
1. CLEARING
a. Install Construction exit.
b. Install silt fence at the limit of clearing.
c. Install inlet sediment traps at all existing drop inlets.
d. Install the detention pond walls and retrofit for sediment storage.
e. Clear the site.
2. GRADING
a. Grading of road and lots.
b. Surface roughen, Su, sloped areas.
c. Install Ds1 & Ds2 on graded and cleared areas. Outside of the future paved area.
3. UTILITY INSTALLATION
a. Install of the storm drainage pipe and structures.
b. Install of inlet sediment traps (Sd2–F) at all catch basins.
c. Install temporary dikes on the downhill side of Sd2s, across road if necessary, to prevent bypass and direct water to inlet.
d. Install Ds1 and Ds2 on R.O.W. and slopes.
e. Grading of dam/berm .
f. Install inlet sediment traps (Sd2–F) with excavated inlet at structures
g. Install Ds1 and Ds2 in storm and sanitary easements.
4. CURBING AND PAVING
a. Installation of curb and pavement.
b. Replace Sd2–F at catch basins.
c. Install Ds3 in right–of–way and easements.
5. LOT CONSTRUCTION
a. Builders begin construction on individual lots.
b. A construction entrance, Co is to be installed on the lot.
c. Silt fence Type C is to be installed on the downhill sides of the lot.
d. The silt fence is to be tied into silt fence on adjacent lots if available or J–hooked into slope on individual lot.
e. Clearing of lot begins.
f. Grading of lot begins.
g. Ds1 and Ds2 are to be installed on disturbed portions of the lots.
h. Footings are poured.
i. House is constructed.
j. Driveway is poured.
k. Final landscaping, Ds3 and Ds4 to be installed on all disturbed areas.
l. Silt fence to be removed after lot is completely stabilized.

B. Activity Record
The contractor is to record the dates when major grading activities occur, when construction activities temporarily or permanently cease on NO PORTION of the site and when stabilization measures are initiated. REFER TO TABLE PROVIDED

C. Structural Practices
Note: All structural practices shown on this plan are described on the ES&PC detail sheets.

D. Sediment Basin
The Detention Pond with Retrofit Outlet Structures will act as the temporary sediment basin.

E. Storm Water Management
The detention for this project is being provided in five standard, dry extended detention facility located in the south eastern corner of the site
Refer to Stormwater Management Report for MARS HILLPREPARED BY ACR ENGINEERING, INC., dated FEBRUARY 09, 2007, for detailed information.

This site contains a long term water quality pond. Upon completion the disturbed areas will be sodded and grassed. In addition, the detention pond will aid in filtering some sediment and trash. Vegetation in the pond may reduce the fertilizers and nitrogen in the runoff.

Velocities from the site are reduced by installing rip rap at the discharge points of all headwalls. In addition, check dams and splash pads will be located downstream of all pond outlets.

F. AMENDMENTS & REVISIONS
Amendments/ revisions to the ES&PC Plan which have significant effect on the BMPs with a hydraulic component must be certified by the design professional.

## APPENDIX B RATIONALE FOR SAMPLING POINTS:

**SURFACE WATER DRAINAGE AREA = 0.013 SQ.MI.**
**CONSTRUCTION SITE AREA = 2.446 AC.**
**PER APPENDIX B: NTU MATRIX VALUE = 25 NTU**

State of Georgia
Department of Natural Resources
Environmental Protection Division

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### APPENDIX B

### Nephelometric Turbidity Unit (NTU) TABLES

**Cold Water (Trout Stream)**

Surface Water Drainage Area, square miles

| Site Size, acres | 0-4.99 | 5-9.99 | 10-24.99 | 25-49.99 | 50-99.99 | 100-249.99 | 250-499.99 | 500+ |
|---|---|---|---|---|---|---|---|---|
| 1.00-10 | 25 | 50 | 75 | 150 | 300 | 500 | 500 | 500 |
| 10.01-25 | 25 | 25 | 50 | 75 | 150 | 200 | 500 | 500 |
| 25.01-50 | 25 | 25 | 25 | 50 | 75 | 100 | 300 | 500 |
| 50.01-100 | 20 | 25 | 25 | 35 | 59 | 75 | 150 | 300 |
| 100.01+ | 20 | 20 | 25 | 25 | 25 | 50 | 60 | 100 |

**Warm Water (Supporting Warm Water Fisheries)**

Surface Water Drainage Area, square miles

| Site Size, acres | 0-4.99 | 5-9.99 | 10-24.99 | 25-49.99 | 50-99.99 | 100-249.99 | 250-499.99 | 500+ |
|---|---|---|---|---|---|---|---|---|
| 1.00-10 | 75 | 150 | 200 | 400 | 750 | 750 | 750 | 750 |
| 10.01-25 | 50 | 100 | 100 | 200 | 300 | 500 | 750 | 750 |
| 25.01-50 | 50 | 50 | 100 | 100 | 200 | 300 | 750 | 750 |
| 50.01-100 | 50 | 50 | 50 | 100 | 100 | 150 | 300 | 600 |
| 100.01+ | 50 | 50 | 50 | 50 | 50 | 100 | 200 | 100 |

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a cold water drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

Example 2: For a site size of 51.7 acres and a warm water drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

4. Inspections.

a. Primary Permittee.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2).Measure rainfall once every 24 hours except any non–working Saturday, non–working Sunday and non–working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every 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 (b) areas used by the primary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittees site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4).. These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The primary permittee must amend the Plan in accordance with Part IV.D.4.b.(5). when a secondary permittee notifies the primary permittee of any Plan deficiencies.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5).. of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify an incident, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

b. Secondary Permittee.

(1). Each day when any type of construction activity has taken place at a secondary permittee's site, certified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(2). Certified personnel (provided by the utility companies and utility contractors if they are secondary permittees) shall inspect the following each day any type of construction activity has taken place at the construction site: (a) areas of the construction site disturbed by the utility companies and utility contractors that have not undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region; (b) areas used by the utility companies and utility contractors for storage of materials that are exposed to precipitation that have not undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region or established a crop of annual vegetation and a seeding of target perennials appropriate for the region; and (C) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the utility companies and utility contractors' construction activities 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). This paragraph is not applicable to utility companies and utility contractors when they are secondary permittees performing service line installations or when conducting repairs on existing line installations.

(3). Certified personnel (provided by the secondary permittee) shall inspect the following at least once every seven 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 secondary permittee's construction site ; (b) areas used by the secondary permittee for storage of materials that are exposed to precipitation ; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the secondary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.b.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(4). Certified personnel (provided by the secondary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of their sites that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

(5). Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24–hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48–hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within this seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48–hours of notification by the primary permittee.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4,b.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and /or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations or when conducting repairs on existing line installations.

## ACTIVITY SCHEDULE

| ACTIVITY | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 6 | WEEK 7 | WEEK 8 | WEEK 9 | WEEK 10 | WEEK 11 | WEEK 12 | WEEK 13 | WEEK 14 | WEEK 15 | WEEK 16 | WEEK 17 | WEEK 18 | WEEK 19 | WEEK 20 | WEEK 21 | WEEK 22 | WEEK 23 | WEEK 24 | WEEK 25 | WEEK 26 | WEEK 27 | WEEK 28 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INSTALLATION OF TREE SAVE FENCING | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION OF EROSION CONTROL FENCING | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEARING AND GRUBBING | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION OF DETENTION FACILITY | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | |
| GRADING ACTIVITIES | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | |
| INSTALLATION OF SANITARY SEWER | | | | | | | | ■ | ■ | | | | | | | | | | | | | | | | | | | |
| INSTALLATION OF STORM SEWER | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | |
| STABILIZATION OF SITE PERMANENT GRASSING | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| MAINTENANCE OF EROSION CONTROL | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | |
| REMOVAL OF EROSION CONTROL AND CLEAN OUT STORM PIPES | | | | | | | | | | | | | | ■ | ■ | | | | | | | | | | | | | |

**INSTALLATION OF TREE SAVE FENCING AND EROSION CONTROL INSTALLATION AND INSPECTION IS TO BE THE FIRST ACTION OF CONSTRUCTION.**

c. Tertiary Permittee.

(1). Each day when any type of construction activity has taken place at a tertiary permittee's site, certified personnel provided by the tertiary permittee shall inspect: (a) all areas used by the tertiary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the tertiary permittee site where that permittee's vehicles enter or exit the site for evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(2).Measure rainfall once every 24 hours except any non–working Saturday, non–working Sunday and non–working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the tertiary permittee) shall inspect at least the following once every seven 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 tertiary permittees construction site ; (b) areas used by the tertiary permittee for storage of materials that are exposed to precipitation ; and (C) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the tertiary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV,D,4.c.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(4). Certified personnel (provided by the tertiary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of their sites that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following the inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4,c.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This section is applicable to primary permittees with a total planned disturbance equal to or greater than one (1) acre and tertiary permittees with a total planned disturbance equal to or greater than five (5) acres. This section is not applicable to secondary permittees. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the common development; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations, When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand–drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). The analytical method used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. Sample Type. All sampling shall be collected by "grab samples and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled NPDES Storm Water Sampling Guidance Document, EPA 833–B–92–001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, clean and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IyE.

**ACTIVITY RECORD**

| DATE | ACTIVITY | BEGIN DATE | END DATE | COMMENTS |
|---|---|---|---|---|
| | | | | |

The contractor is to record beginning and ending dates of the following activities:
- Major grading activities
- Temporary or permanent ceasing of activities on NO PORTION of the site
- All stabilization measures including:
  - Temporary seeding
  - Permanent seeding
  - Mulching
  - Geotextiles
  - Sod stabilization
  - Vegetative buffer strips
  - Protection of trees
  - Preservation of mature vegetation
  - Other appropriate measures

24 HOUR EMERGENCY CONTACT:
BILL PROBST
(770) 318–5154

c. Sampling Points.

(1). For construction activities the primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres 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:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas),or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and seeding of target crop perennials appropriate for the region).

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

d. Sampling Frequency.

(1). The primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall within forty–five (45) minutes or as soon as possible.

(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 qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that allows for sampling during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall 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 8MPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (C) above is required but not possible (or not required because there was no discharge), the primary permittee, in accordance with Part IV.D.4.a.(6),, or the tertiary permittee, in accordance with Part IV.D.4.c.(6)., must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

7. Non–storm water discharges. Except for flows from fire fighting activities, sources of non–storm water listed in Part III.A.2. of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non–storm water component(s) of the discharge.

D. Signatory Requirements
All notices of Intent, Notice of Terminations, Erosion, Sedimentation and Pollution Control plans, Tertiary Erosion Control Plans, reports, certifications or other information either submitted to the EPD or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed according to Section VI.G. of the NPDES General Permit No. GAR 100000.

V. NON–STORMWATER DISCHARGE

Non–storm water discharges including fire hydrant flushing, water line flushing, irrigation drainage, air conditioning condensate, springs, uncontaminated ground water, and discharge from foundation footing drains that combine with storm water discharges associated with construction activities will be treated by the same best management practices implemented for treating storm water discharges.

STABILIZATION NOTES:

1. Stabilization Measures (Ds1, Ds2, Ds3 or DS4) shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

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

3. Where construction activity will resume on NO PORTION of the site within 21 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 21 days), then stabilization measures do not have to be initiated on that portion of site by the 14th day after construction activity temporarily ceased.

CONTROL NOTES:

1. No solid materials, including building materials, shall be discharged to waters of the State, except as authorized by a Section 404 permit.
2. Off–site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical.

3. This Plan is in compliance with applicable State and/or local waste disposal, sanitary sewer or septic tank regulations both during and after construction activities have been completed.

4. Any spilled or leaked petroluem fluids will be immediately cleaned using dry absorbent material. Contractor shall be responsible for removal of soils, contaminated due to petroleum spills to a proper facility.

5. The included Erosion, Sedimentation and Pollution Control plan is based on the guidelines found in the "Manual for Erosion and Sediment Control in Georgia" that was active on January 1, 2000.

**6. The following structural practices have been designed with the hydrologic component (25–year, 24–hour storm) required by the " Manual for Erosion and Sediment Control in Georgia": Storm Drain Outlet Protection(St) and Temporary Sediment Basins (Sd3). All other structrual practices have been designed according to the criteria shown in the "Manual for Erosion and Sediment Control in Georgia".**

7. Non–exempt activities shall not be conducted within the 25 or 50–foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.

THE PROPOSED EROSION AND RUNOFF CONTROL MEASURES ARE IN COMPLIANCE WITH THE CITY OF DUNWOODY SEDIMENT CONTROL AND FLOOD PROTECTION REGULATIONS AND WILL NOT INCREASE THE RUNOFF RATE FROM THE SITE FOR RAINSTORM WITH A RETURN PERIOD OF 2, 5, 10, 25, 50 AND/OR 100 YEARS.

MARK MILLER ______________

1. I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1, of the year in which the land–disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 10000x."

Signature ______________ Date

2. Plan includes BMPs for all phases of common development including individual building lots and out–parcels, etc. regardless of who owns or operates the individual sites.

3. The applicable portion of ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and each secondary shall sign the plan applicable to their site. (See list of secondary permittees to the right)

4. The design professional who prepared the ES&PC Plan is to inspect the installation of BMPs within 7 days after the construction activity begins. Proof of site visit should be kept on site.

5. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature ______________ Date

GENERAL NOTES

SILT/SEDIMENT POND MAINTENANCE

1. SILT/SEDIMENT PONDS MUST BE CLEANED OUT AS FOLLOWS:
   A. AFTER EACH 2 YEAR, 24 HOUR STORM OR RAIN EVENT RESULTING IN 3.7 INCHES OF RAIN IN 24 HOURS.
   B. ONCE EVERY SIX MONTHS (AUGUST AND FEBRUARY).
   C. WHEN SEDIMENT POND IS 1/3 FULL.
   D. IMMEDIATELY AFTER CONSTRUCTION COMPLETION.
   E. SIX MONTHS AFTER CONSTRUCTION COMPLETION.
2. SEDIMENT PONDS WHICH ARE TO CONTINUE FUNCTIONING AS DETENTION STRUCTURES MUST BE GRASSED IMMEDIATELY AFTER FINAL DEMUCKING AND CLEANING.
3. SEDIMENT PONDS MUST BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENTDURING DURATION OF CONSTRUCTION ACTIVITIES TO EVALUATE THEIR EFFECTIVENESS. ANY DEFICIENCIES MUST BE REPAIRED IMMEDIATELY.

NOTE:

PETROLEUM STORAGE SHALL BE DONE IN ACCORDANCE WITH ONE OF THE TWO FOLLOWING METHODS TO PREVENT STORMWATER DISCHARGES ON THE SITE.
A. ALL PETROLEUM STORAGE CONTAINERS SHALL BE COVERED WITH PLASTIC SHEETING OR BE LOCATED UNDER A TEMPORARY ROOF.
B. ALL PETROLEUM STORAGE CONTAINERS SHALL BE LOCATED IN A SECONDARY CONTAINMENT AREA.

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.
GSWCC LEVEL II CERT. NO. 15923, EXP. 8/19/2017
MARK MILLER ______________

E. Reporting.

1. The applicable permittees are required to submit the sampling 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.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:
   a. The rainfall amount, date, exact place and time of sampling or measurements;
   b. The name(s) of the certified personnel 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 certified personnel who performed the analyses;
   f. References and written procedures, when available, for the analytical techniques or methods used;
   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;" and
   i. Certification statement that sampling was conducted as per the Plan.

3. 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 applicable permittees 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. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

F. 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 sampling 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.(2). of this permit.

2. Each secondary 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 or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by this permit;
   c. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit; and
   d. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit.

3. Each tertiary 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 professionals report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
   d. A copy of all sampling information, results, and reports required by this permit;
   e. A copy of all inspection reports generated in accordance with Part IV.D.4.c. 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.c.(2). of this permit.

4. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, 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 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.

ES&CP NOTES
(1). WASTE DISPOSAL SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
(2). THIS PLAN HAS INCLUDED A STRUCTURAL BMP CONSTRUCTION EXIT, WHICH WILL DETER OFF–SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS INTO PUBLIC RIGHT–OF–WAY OR ADJACENT PROPERTIES. CONSTRUCTION EXITS SHALL MAINTAIN THE GUIDELINES AS DETAILED IN THIS PLAN AND DEFINED IN "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL.
(3) THE PRIMARY PERMITTEE SHALL HAVE AND BE RESPONSIBLE FOR A SANITARY SEWER, SEPTIC, AND/OR WASTE DISPOSAL SYSTEM (E.G. PORTABLE BATHROOMS) ON SITE DURING CONSTRUCTION THAT IS COMPLIANT WITH LOCAL, STATE, AND FEDERAL JURISDICTION REGULATIONS.
(4). ON–SITE PETROLEUM STORAGE AREAS SHALL INCLUDE SPILL PREVENTION AND CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SECONDARY CONTAINMENT BERMED STORAGE AREAS, ETC. SPILLS SHALL BE CONTAINED IF THEY OCCUR AND BE DIRECTED AWAY FROM RECEIVING WATERS OR STORM DRAINAGE SYSTEMS. SPILL CLEAN UP SHALL INCLUDE REMOVAL OF ANY FREE LIQUIDS AND EXCAVATION OF IMPACTED SOILS AND DISPOSED OFF–SITE AT A LICENSED FACILITY PERMITTED TO ACCEPT SUCH WASTE.
(5) APPLICABLE PORTION OF THE PRIMARY PERMITTEES ES&PC PLAN IS TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING ANY CONSTRUCTION ACTIVITY AND THAT EACH SECONDARY SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE. LIST THE NAMES AND ADDRESSES OF ALL SECONDARY PERMITTEES.

(I). EXCEPT AS PROVIDED IN PART IV.(III). BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25–FOOT BUFFER ALONG THE BANKS ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH PROVISIONS OF O.C.G.A. 12–7–6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND–DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAT 50–FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED; (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES;

(II). NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN 50–FOOT BUFFER, AS MEASURED HORIZONTALLY FROM POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT WATERS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH 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 BT THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND–DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM; CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES; AND

ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291–0000
FAX: (678) 291–6887

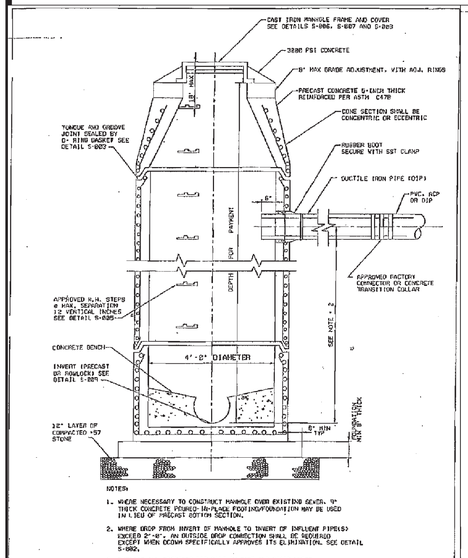
EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 20748 MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

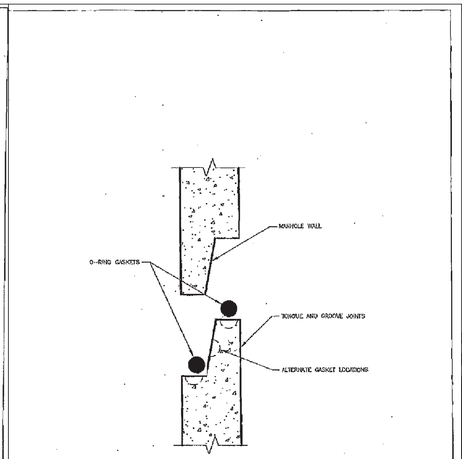
DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A




NOTES:

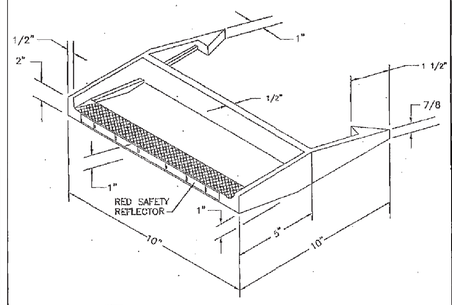
1. WHERE NECESSARY TO CONSTRUCT MANHOLE OVER EXISTING SEWER, 9" THICK CONCRETE POURED-IN-PLACE FOOTING/FOUNDATION MAY BE USED IN LIEU OF PRECAST BOTTOM SECTION.
2. WHERE DROP FROM INVERT OF MANHOLE TO INVERT OF EFFLUENT PIPE(S) EXCEED 2'-6", AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED EXCEPT WHEN DESIGN SPECIFICALLY APPROVES ITS ELIMINATION. SEE DETAIL S-0082.
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 | NOT TO SCALE | DETAIL NO. S-001




NOTE:
AFTER INSTALLATION JOINTS SHALL BE GROUTED SMOOTH WITH CEMENT GROUT ON INSIDE AND OUT.

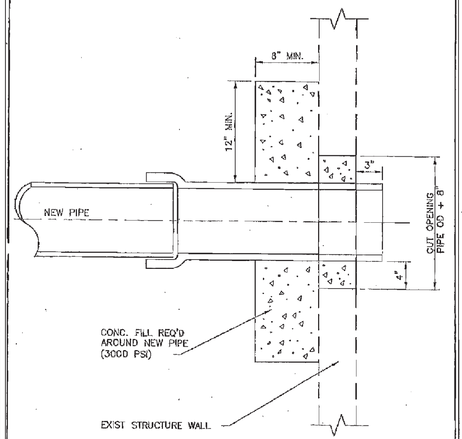
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | Manhole Joint Detail | NOT TO SCALE | DETAIL NO. S-005



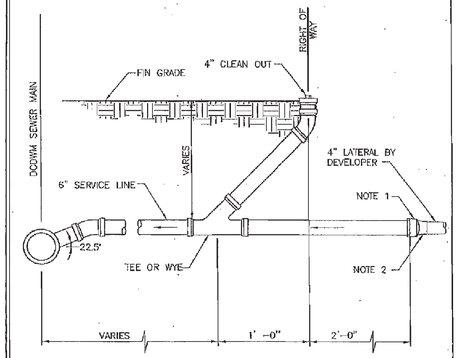

NOTES:

1. STEPS MAY BE CAST IRON, COATED STEEL, PLASTIC OR ALUMINUM AND MEET ASTM C-478 REQUIREMENTS.
2. MINIMUM DESIGN LIVE LOAD SHALL BE A SINGLE CONCENTRATED LOAD OF 300LBS.
3. STEPS SHALL BE A MINIMUM OF 10" WIDE, EMBEDDED A MINIMUM OF 3" AND PROJECT MINIMUM CLEAR DISTANCE OF 4".
4. MAXIMUM VERTICAL SPACING SHALL BE 12" IN THE COMPLETED MANHOLE.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | Typical Manhole Step | NOT TO SCALE | DETAIL NO. S-005



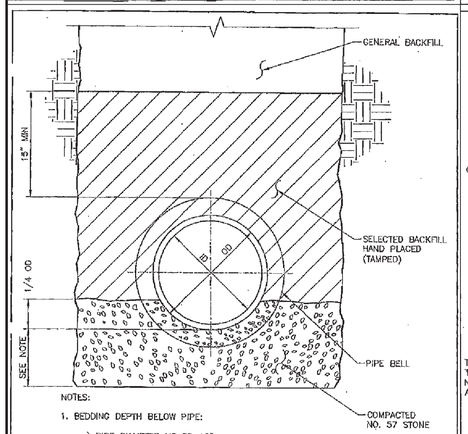

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | New Line Connection to an Existing Structure | NOT TO SCALE | DETAIL NO. S-010




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

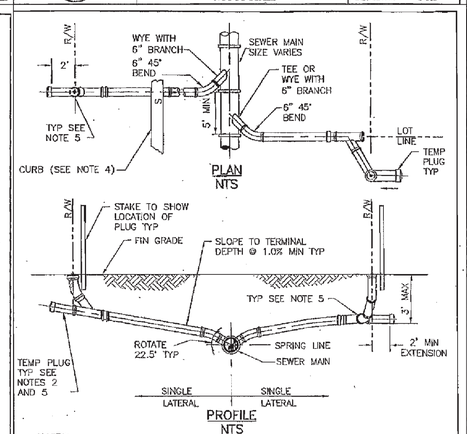
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | Typical Service Line and Clean Out Detail | NOT TO SCALE | DETAIL NO. S-011




NOTES:

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

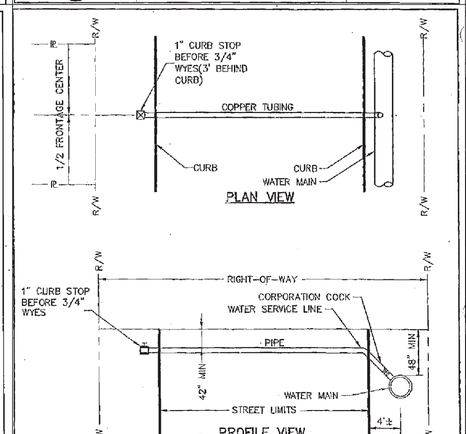
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | Class "C" Bedding | NOT TO SCALE | DETAIL NO. S-014




NOTES:

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

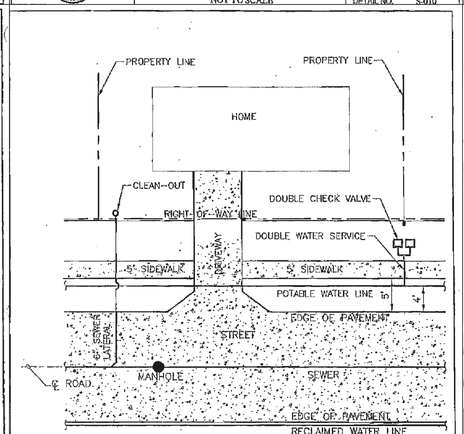
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 12/07 | Sanitary Sewer Lateral Connection detail | NOT TO SCALE | DETAIL NO. S-017




NOTES:

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

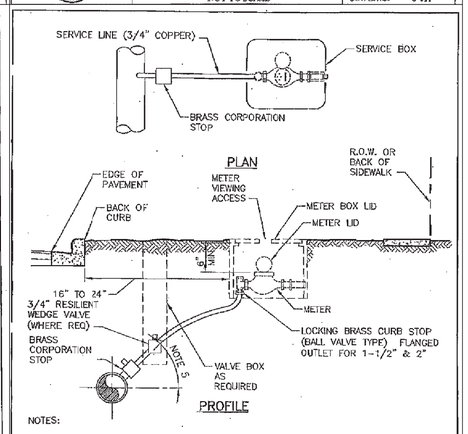
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 11/07 | Typical Service Line Installation | NOT TO SCALE | DETAIL NO. W-008




NOTE:

1. A 3' BY 3' AREA OF "GREEN SPACE SHALL BE ALLOTTED PER EACH WATER METER. METERS SHALL NOT BE LOCATED WITHIN PAVED AREAS.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 07/08 | Water Meter Locations Detail | NOT TO SCALE | DETAIL NO. W-025




NOTES:

1. METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB AND IN NO CASE SHALL IT BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.
2. ALL POTABLE WATER IRRIGATION METERS REQUIRE AN APPROVED BACKFLOW PREVENTER.
3. ALL PROPERTIES WITH ALTERNATIVE WATER SYSTEMS (WELL, ETC.) REQUIRE BACKFLOW PREVENTERS.
4. SERVICE LINES SHALL NOT BE LESS THAN METER SIZE.
5. SERVICE TAP SHALL BE BETWEEN 2:00 O'CLOCK AND 4:00 O'CLOCK WITHOUT SADDLE TAP.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS | 07/08 | Residential Water Meter Installation Detail | NOT TO SCALE | DETAIL NO. W-026

ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887

# CONSTRUCTION DETAILS
FOR
# 4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH STATE: GEORGIA
CITY OF DUNWOODY
COUNTY: DEKALB DRAWN: BF
DESIGNED: MM

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A
Sheet 15 of 17

300

## LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS

NORMAL BACKFILL

IMPERFECT BACKFILL

SECTION FOR TRENCH CONSTRUCTION

MULTIPLE PIPE CULVERT SPACING

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

TRENCH CONSTRUCTION FOR SIDE DRAIN

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS

TRENCH CONSTRUCTION FOR STORM DRAIN

TABLE NO. 1

TABLE SHOWING MIN. CLASSES OF CONCRETE PIPE AND THICKNESS IN INCHES OF CORRUGATED STEEL PIPE AND CORRUGATED ALUMINUM PIPE FOR VARIOUS DEPTHS OF FILL ABOVE TOP OF PIPE

| FIELD TILE (Inches) | PIPE CHARACTERISTIC | METHOD OF FILL | DEPTH OF FILL IN FEET SINCE TOP OF PIPE | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CONCRETE OR CSP OR CSAA STEEL OR AL. | TYPE | 0-4 | 4-6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-16 | 16-18 | 18-20 | 20-22 | 22-24 | 24-26 | 26-28 | 28-30 | 30-32 | 32-34 | 34-36 | 36-38 | 38-40 | 40-42 |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | | | | | |
| 126 | | | | | | | | | | | | | | | | | | | | | | |

TABLE NO. 2 - CONFIGURATION ONLY

| | |
|---|---|
| 12 - 24 | 12 |
| 27 - 48 | 15 |
| 54 - 72 | 18 |
| 78 - 84 | 21 |
| 90 - 96 | 24 |

TABLE NO2 (PIPE-ARCH)

TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM PIPE-ARCH AND MAXIMUM HEIGHTS OF COVER FOR VARIOUS SIZES AND TYPES OF LOADING

| EQUIVALENT CIRCULAR PIPE SIZE (Inches) | SPAN (Inches) | RISE (Inches) | 2 2/3" x 1/2" CORR. STEEL GA. | 2 2/3" x 1/2" CORR. ALUM. GA. | MAX. HT. OF COVER (Feet) | MIN. HT. OF FILL (Feet) |
|---|---|---|---|---|---|---|
| 15 | 17 | 13 | | 14 | 5 | 1 |
| 18 | 21 | 15 | | 14 | 5 | 1 |
| 21 | 24 | 18 | | 14 | 5 | 1 |
| 24 | 28 | 20 | | 14 | 5 | 1 |
| 30 | 35 | 24 | | 14 | 5 | 1 |
| 36 | 42 | 29 | 14 | 12 | 5 | 1 |
| 42 | 49 | 33 | 14 | 12 | 5 | 1 |
| 48 | 57 | 38 | 14 | 12 | 5 | 1 |
| 54 | 64 | 43 | 14 | 12 | 5 | 1 |
| 60 | 71 | 47 | 14 | 12 | 5 | 1 |
| 66 | 77 | 52 | 14 | 12 | 5 | 1 |
| 72 | 83 | 57 | 14 | 12 | 5 | 1 |

NOTE FOR TABLE NO. 2:

ROADS & DRAINAGE DEPT.
DEKALB COUNTY, GEORGIA
PIPE CULVERTS
STANDARD NO. 300

306

SECTION OF PIPE MAY BE CAST IN HEADWALL

PICK-UP POINTS

FRONT ELEVATION

SIDE ELEVATION

COMPACTED SUBGRADE MIN 95% STD PROCTOR

NOTE: ALL CONCRETE SHALL BE 4000 PSI (REINF. STEEL SHALL BE 1/2 # OF INTERMEDIATE GRADE, PLACE KEWAUNEE 2 NOM. CL. CHAMFER ALL EXPOSED EDGES 3/4")

PLAN

SECTION A-A

TYPE 1 BARS C,D,E,G,H,L

TYPE 2 BARS A, B

TYPE 3 BAR H

TYPE 4 BAR F

TYPE 5 BAR K

BAR REINF DETAILS
REINF STEEL TO BE 1/2 ϕ BARS

SECTION B-B

SECTION C-C

SECTION D-D

VARIABLE DIMENSIONS (CONCRETE PIPE)

| CU. YDS CONC | INSIDE DIA. PIPE | AREA PIPE OPENING | A | B | C | D | E | F | G | H | WT | BASE AREA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.43 | 18" | 1.76 | 3'-0" | 3'-4" | 3'-4 1/2" | 2'-0" | 1'-5" | 4'-10" | 2'-0" | 1'-0 1/4" | 1753 | 8.30 |
| 0.50 | 21" | 2.40 | 3'-6 1/2" | 3'-8" | 3'-8 1/2" | 2'-0" | 1'-6" | 5'-4 1/2" | 2'-1 1/2" | 1'-0 7/8" | 2020 | 9.40 |
| 0.51 | 24" | 3.14 | 4'-0" | 3'-9" | 3'-11" | 2'-0" | 1'-6" | 5'-11" | 2'-4 1/2" | 1'-1 7/8" | 2083 | 11.80 |
| 0.79 | 30" | 4.91 | 4'-6 1/2" | 3'-11" | 4'-3 1/2" | 2'-0" | 1'-7 1/2" | 6'-11" | 2'-10 1/2" | 1'-2 7/8" | 3182 | 15.30 |
| 1.00 | 36" | 7.07 | 5'-1" | 4'-3" | 5'-0" | 2'-0" | 1'-8" | 8'-0" | 3'-2 1/2" | 1'-5" | 4059 | 19.60 |

VARIABLE DIMENSIONS (METAL PIPE)

| CU. YDS CONC | INSIDE DIA. PIPE | AREA PIPE OPENING | A | B | C | D | E | F | G | H | WT | BASE AREA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.36 | 18" | 1.76 | 3'-2" | 2'-3" | 3'-2" | 1'-0" | 1'-4" | 4'-1" | 1'-10 1/2" | 1'-0 1/2" | 1549 | 7.34 |
| 0.46 | 21" | 2.40 | 3'-5" | 2'-6" | 3'-5" | 2'-0" | 1'-5" | 4'-10" | 2'-0" | 1'-0 1/4" | 1778 | 8.32 |
| 0.52 | 24" | 3.14 | 3'-8" | 2'-8" | 3'-8" | 2'-0" | 1'-7" | 5'-5" | 2'-3" | 1'-1 1/4" | 2108 | 9.90 |
| 0.70 | 30" | 4.91 | 4'-2" | 2'-11" | 4'-2" | 2'-0" | 1'-11" | 6'-7" | 2'-8 1/2" | 1'-2 1/2" | 2654 | 13.50 |
| 0.91 | 36" | 7.07 | 4'-8" | 3'-3" | 4'-8" | 2'-0" | 2'-3" | 7'-9" | 3'-0 1/2" | 1'-3 3/4" | 3678 | 17.65 |

| REVISIONS | | DEPTS. of ROADS & DRAINAGE and DEVELOPMENT DEKALB COUNTY, GEORGIA |
|---|---|---|
| DATE | BY | CONSTRUCTION & DESIGN STANDARDS |
| | | CAST CONCRETE HEADWALL |
| | | DWG. NO. 306 SHEET 1 OF 1 SHEETS |
| | | DRAWN BY JHG APPD. DATE 10-15-69 |
| | | CHECKED BY |
| | | SCALE |

DIRECTOR OF PUBLIC WORKS

408

METHOD OF PIPE LAYOUT

ANGLE A

| 4'-0" BASE PIPE SIZE | A | 5'-0" BASE PIPE SIZE | A | 6'-0" BASE PIPE SIZE | A |
|---|---|---|---|---|---|
| 12 | 43° | 12 | 40° | | |
| 15 | 92° | 15 | 47° | | |
| 18 | 60° | 18 | 55° | | |
| 21 | 67° | 21 | 69° | | |
| 24 | 75° | 24 | 70° | | |
| | | 27 | 75° | | |
| | | 30 | 86° | | |
| | | 36 | 115° | | |
| | | 42 | 140° | 42 | 90° |
| | | | | 48 | 115° |

STANDARD MANHOLE FRAME & COVER

BRICK COURSES FOR ADJUSTMENT TO GRADE

STANDARD CONE

OPTIONAL CONE WITH CAST IN PLACE COVER

FLAT CONCRETE COVER THICKNESSES
10" - HEAVY VEHICULAR TRAFFIC.
8" - MODERATE TRAFFIC.
6" - GRASSED OR NON-VEHICULAR TRAFFIC.

STANDARD MANHOLE COVER OR GRATE AND FRAME

48" I.D.
60" I.D.
72" I.D.

GROUT OR MASTIC TYPE JOINT

SUBGRADE COMPACTED EARTH OR CRUSHED STONE

FOR USE AROUND EXISTING PIPE

DROPINLET & JUNCTION BOX DEPTHS AVAILABLE IN 6" INCREMENTS

RECTANGLE GRATING

SQUARE GRATING

FOR STANDARD MANHOLE COVERS

STANDARD PRECAST FLAT TOPS

NOTE:
SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR
REINFORCEMENT STEEL TO BE PLACED TO ALLOW A MINIMUM OF 2" CLEARANCE, EXCEPT WHERE NOTED.
REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE AND SHALL BE 0.12 SQ.IN. PER F.T. IN BOTH DIRECTIONS IN ACCORDANCE WITH A.S.T.M. C 478-67 MANHOLE SPECIFICATIONS
ALL CONCRETE SHALL BE 4,000 P.S.I.

| REVISIONS | | DEPTS. of ROADS & DRAINAGE and DEVELOPMENT DEKALB COUNTY, GEORGIA |
|---|---|---|
| DATE | BY | CONSTRUCTION & DESIGN STANDARDS |
| 6-62 | D.P. | STANDARD ROUND PRECAST DROP INLET & JUNCTION BOX SYSTEMS |
| | | DWG. NO. 408 SHEET 1 OF 1 SHEETS |
| | | DRAWN BY C.M. APPD. DATE 10-1-69 |
| | | CHECKED BY RDM |
| | | SCALE: NONE |

DIRECTOR OF PUBLIC WORKS

601

| SIZE NO. | (1) NORMAL SIZE SQUARE OPENINGS | AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT | | | | | | | | | | | | | | | SIZE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 3½ | 3 | 2½ | 2 | 1½ | 1 | ¾ | ½ | ⅜ | NO. 4 | NO. 8 | NO. 16 | NO. 50 | NO. 100 | |
| 1 | 3½ to 1½ | 100 | 90-100 | | 25-60 | | 0-15 | —— | 0-5 | —— | —— | —— | | | | | 1 |
| 2 | 2½ to 1½ | | | 100 | 90-100 | 35-70 | 0-15 | —— | 0-5 | —— | —— | —— | | | | | 2 |
| 24 | 2½ to 3/4 | | | 100 | 90-100 | | 25-60 | —— | 0-10 | 0-5 | —— | —— | | | | | 24 |
| 3 | 2 to 1 | | | | 100 | 95-100 | 35-70 | 0-15 | —— | 0-5 | —— | —— | | | | | 3 |
| 357 | 2 to No. 4 | | | | 100 | 95-100 | —— | 35-70 | —— | 10-30 | —— | 0-5 | | | | | 357 |
| 4 | 1½ to 3/4 | | | | | 100 | 90-100 | 20-55 | 0-15 | —— | 0-5 | —— | | | | | 4 |
| 467 | 1½ to No. 4 | | | | | 100 | 95-100 | —— | 35-70 | —— | 10-30 | 0-5 | | | | | 467 |
| 5 | 1 to 1/2 | | | | | | 100 | 90-100 | 20-55 | 0-10 | 0-5 | —— | | | | | 5 |
| 56 | 1 to 3/8 | | | | | | 100 | 90-100 | 40-75 | 15-35 | 0-15 | 0-5 | | | | | 56 |
| 57 | (3) 1 to No. 4 | | | | | | 100 | 95-100 | —— | 25-60 | —— | 0-10 | 0-5 | —— | —— | —— | 57 |
| 6 | 3/4 to 3/8 | | | | | | | 100 | 90-100 | 20-55 | 0-15 | 0-5 | —— | —— | —— | —— | 6 |
| 67 | 3/4 to No. 4 | | | | | | | 100 | 90-100 | —— | 20-55 | 0-10 | 0-5 | —— | —— | —— | 67 |
| 68 | 3/4 to No. 8 | | | | | | | 100 | 90-100 | —— | 30-65 | 5-25 | 0-10 | 0-5 | —— | —— | 68 |
| 7 | 1/2 to No. 4 | | | | | | | | 100 | 90-100 | 40-70 | 0-15 | 0-5 | —— | —— | —— | 7 |
| 78 | 1/2 to No. 8 | | | | | | | | 100 | 90-100 | 60-75 | 5-25 | 0-10 | 0-5 | —— | —— | 78 |
| 789 | | | | | | | | | | | | | | | | | 789 |
| 8 | 3/8 to No. 8 | | | | | | | | | 100 | 85-100 | 10-30 | 0-10 | 0-5 | —— | —— | 8 |
| 89 | 3/8 to No. 16 | | | | | | | | | 100 | 90-100 | 20-55 | 5-30 | 0-10 | 0-5 | —— | 89 |
| 9 | No. 4 to #6 | | | | | | | | | | 100 | 85-100 | 10-40 | 0-10 | 0-5 | —— | 9 |
| 10 | (2) No. 4 to 0 | | | | | | | | | | 100 | 85-100 | —— | —— | —— | 10-30 | 10 |

(1) IN INCHES, EXCEPT WHERE OTHERWISE INDICATED. NUMBERED SIEVES ARE THOSE OF THE UNITED STATES STANDARD SIEVE SERIES.
(2) SCREENINGS
(3) PIPE BEDDING
(4) CRUSHER RUN

| REVISIONS | | DEKALB COUNTY, GEORGIA DEPT. OF PUBLIC WORKS SUBDIVISION & DRAINAGE DESIGN |
|---|---|---|
| DATE | BY | AGGREGATE GRADUATIONS |
| 8-69 | JHG | DWG. NO. 601 SHEETS 1 OF 1 SHEETS |
| | | DRAWN BY JHG APPD. DATE 10-15-69 |
| | | CHECKED BY |
| | | SCALE NONE |

DIRECTOR OF PUBLIC WORKS

406-A

NOTE:
SEE STANDARD 406-B-- BRICK DROP INLETS -- FOR DETAIL OF GRATING FRAME, HOOD, ETC., WHERE NEEDED.

TYPE "A"

TYPE "B" WITH WEIR

TYPE "C" (WITH OR WITHOUT WEIR)

TYPE "E"

ISOMETRIC VIEW OF DROP INLET TYPE "C" (WITH OR WITHOUT WEIR) SHOWN (BY DASH) WITHOUT WEIR

METHOD OF CONNECTING PIPE

STEP 1: CUT CONCRETE PIPE ALONG APPROXIMATELY ½ OF REINFORCING MESH EXPOSED.

STEP 2: POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL

STEP 3: POSITION CONCRETE CORE INSIDE OF PIPE AND SEAL WITH GROUT 1½" MIN. THICKNESS OF GROUT. REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

NOTE: CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR PLAIN END PROVIDED AT STRUCTURE OUTLET.

METHOD OF CONNECTING SKEWED PIPE

THE PRECAST ADAPTOR, WHERE USED, IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO EXTRA COST.

DETAIL AND ARRANGEMENT OF LADDER BARS

ALTERNATE METHOD (OPTIONAL) LADDER RUNG WELDED TO THE LADDER BARS AND EMBEDDED IN THE CAST IRON RUNG WITH A STUD USING A STUD GUN.

NOTE:
MINIMUM OF THREE - 3/4" ϕ STEEL LADDER BARS ARE REQUIRED IN ALL DROP INLETS WHERE H IS GREATER THAN 5'-0"

NUMBER AND LOCATION OF LADDER BARS IN DROP INLET TO BE AS DIRECTED BY THE ENGINEER.

PLASTIC OR RUBBER COATED RUNGS APPROVED BY THE LABORATORY AND PLACED ON RUBBER CONTACT ALUMINUM RECOMMENDATIONS MAY BE SUBSTITUTED FOR THE LADDER BARS AND RUNGS.

DIMENSIONS FOR DROP INLETS

| PIPE SIZE | TYPE "C" | | TYPE "A" | | TYPE "B" | | TYPE "E" | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MIN L | MIN W | MIN L | MIN W | A | B | MIN S | MIN H | MIN W | MIN L | MIN S | MIN H | MIN W | MIN L | MIN S | MIN H |
| 18" | 3'-0" | 3'-0" | 4'-0" | 4'-0" | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 21" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 24" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 30" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 36" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 42" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |
| 48" | | | | | 2'-0" | 1'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" | 3'-0" | 4'-0" | 2'-0" | 3'-0" |

| REVISIONS | | DEKALB COUNTY, GEORGIA DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CONSTRUCTION & DESIGN |
|---|---|---|
| DATE | BY | DROP INLETS PRECAST |
| | | APPROVAL DTE 12-1-69 |
| | | DRAWN BY C.M. |
| | | CHKD BY |
| | | DWG. NO. 406A |

DIRECTOR OF PUBLIC WORKS


ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


CONSTRUCTION DETAILS
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

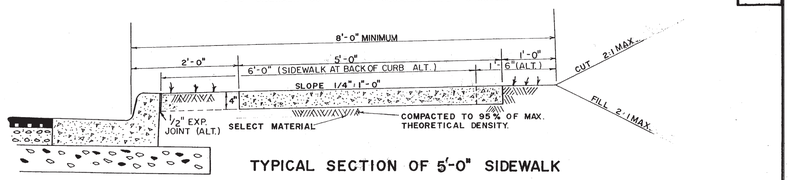
BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A

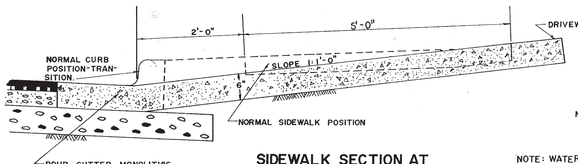
Sheet 16 of 17

708

NOTE: 1/2" PREMOULDED EXPANSION JOINT AT DRIVEWAYS, CURBS ETC. 5'-0" SIDEWALK CUT IN 5'-0" SQUARES 1 1/2" GROOVES.




## TYPICAL SECTION OF 5'-0" SIDEWALK




## SIDEWALK SECTION AT DRIVEWAY
(STREET WITH CURB & GUTTER)

NOTE: SIDEWALK TO BE CONSTRUCTED OF CLASS "A" - 3000 P.S.I. CONCRETE.

NOTE: WATER METERS ARE PROHIBITED WITHIN SIDEWALK. COORDINATE METER PLACEMENT WITH THE WATER AND SEWER DEPARTMENT.

NOTE: MATERIAL OF 95 / CU. FT. OR BETTER IS SELECT MATERIAL.

ALL EXPOSED UNPAVED AREAS ARE TO BE COVERED WITH A STAND OF GRASS.

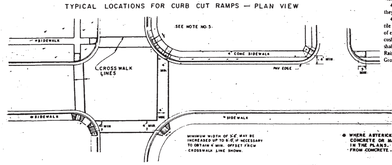
708

| REVISIONS | |
|---|---|
| DATE | BY |
| 7-69 | JHG |
| 6-82 | D.P |
| 12-87 | WCB |
| 11-95 | T.O.B. |

DEKALB COUNTY, GEORGIA
DEPT. OF PUBLIC WORKS
SUBDIVISION & DRAINAGE DESIGN
TYPICAL SECTION OF SIDEWALK FOR CURB & GUTTER
DWG. NO. 708 SHEETS 1 OF 1 SHEETS
DRAWN BY JHG | APPD. DATE 12-29-69
CHECKED BY
SCALE NONE | DIRECTOR OF PUBLIC WORKS

713

TYPICAL LOCATIONS FOR CURB CUT RAMPS — PLAN VIEW



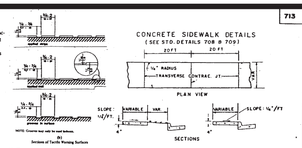

4.29 Tactile Warnings
4.29.1 General. If tactile warnings are required, they shall comply with 4.29.
4.29.2* Tactile Warnings on Walking Surfaces. Tactile warning textures on walking surfaces shall consist of exposed aggregate concrete, rubber, or plastic embossed surface, raised strips, or grooves. Textures shall contrast with that of the surrounding surface. Raised strips or grooves shall comply with Fig. 60. Grooves may be used indoors only.

Plan of Tactile Warning Surface

Fig. 60 Truncated Domes and Tactile

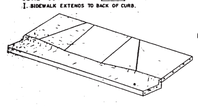
Sections of Tactile Warning Surfaces

CONCRETE SIDEWALK DETAILS
(SEE STD. DETAILS 708 & 709)




NOTES FOR CONCRETE SIDEWALKS.
A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF BRISTLE BROOM.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS.
C. ALL EDGES TO BE RADIUSED TO 1/4" RADIUS.
D. EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK ABUTS INTO A STRUCTURE OR TERMINATES AT CURBS, RAMPS OR DRIVEWAYS.

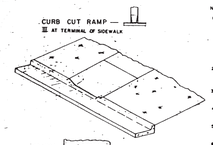
CURB CUT RAMP — I. SIDEWALK EXTENDS TO BACK OF CURB.

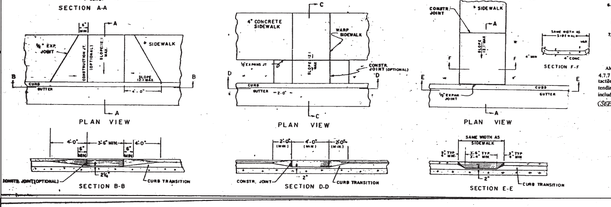



CURB CUT RAMP — II. UNPAVED AREA BETWEEN CONCRETE SIDEWALK AND CURB.



CURB CUT RAMP — III. AT TERMINAL OF SIDEWALK




NOTES FOR CURB CUT RAMPS

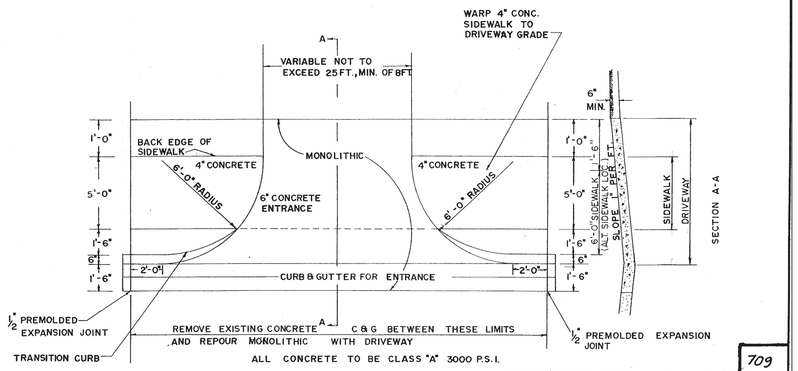
1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS:
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SPECIFIED IN THE PLANS, SUCH AS HOSPITALS, NURSING HOMES, NEAR ANGLE STS., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO PHYSICALLY HANDICAPPED.
2. ACTUAL LOCATION OF CURB CUT RAMPS WILL BE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS. THE LOCATION OF CROSSWALK LINES AND STOP BAR, WHEN REQUIRED, WILL BE COORDINATED WITH THE LOCATION OF THE RAMPS.
3. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMP WILL BE THE SAME AS FOR CONCRETE SIDEWALK.
4. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASABLE.
5. WHERE RAMPS ARE LOCATED ON RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTH AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
6. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT MID-BLOCK LOCATIONS, OR WHERE THE SLOPE OF THE RAMP DESIRED MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, RAMPS SHALL BE CONSTRUCTED APPROXIMATELY AS FIT AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP TO EXCEED those of 1.
7. THE FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONS CURB IN FRONT OF RAMPS. NO YDS. OF CONCRETE SIDEWALK WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR FILLING RAMP FOR CURB CUT RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.

AMERICAN NATIONAL STANDARD A117.1-1980
4.7.7 Warning Textures. A curb ramp shall have a tactile warning texture complying with 4.29 and extending the full width and depth of the curb ramp, including any flares. (SEE FIG. 14)
(SEE FIG. 40 ABOVE.)

Fig. 14 Warning Signals at Curb Ramps

DEKALB COUNTY, GEORGIA
DEPARTMENT OF PUBLIC WORKS
STANDARDS FOR CONSTRUCTION & DESIGN
CONCRETE SIDEWALK DETAILS
CURB CUT WHEELCHAIR RAMPS
APPROVAL DATE 12-29-69
DRAWN BY W.C.B.
CHECKED BY
DIRECTOR OF PUBLIC WORKS
DWG. NO. 713

709




NOTE WATER METERS ARE PROHIBITED WITHIN SIDEWALK. COORDINATE METER PLACEMENT WITH THE WATER AND SEWER DEPARTMENT.

709

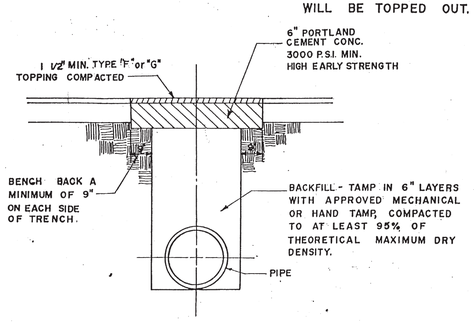
| REVISIONS | |
|---|---|
| DATE | BY |
| 9-69 | JHG |
| 10-75 | KBC |
| 11-95 | T.O.B. |

DEKALB COUNTY, GEORGIA
DEPT. OF PUBLIC WORKS
SUBDIVISION & DRAINAGE DESIGN
PRIVATE DRIVEWAY ENTRANCE WITH 6" CURB & GUTTER & 5'-0" SIDEWALK
DWG. NO. 709 SHEETS 1 OF 1 SHEETS
DRAWN BY JHG | APPD. DATE 12-29-69
CHECKED BY
SCALE NONE | DIRECTOR OF PUBLIC WORKS

804

ON LONGITUDINAL CUTS EXCEEDING 150 ft. IN LENGTH, THE CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "F" ASPHALT TOPPING OR SURFACE COURSE.

NOTE: ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HOUR MINIMUM). WITHIN NOT LONGER THAN SEVEN CALENDAR DAYS OF BEGINNING OF CONCRETE POUR, THE AREA WILL BE TOPPED OUT.



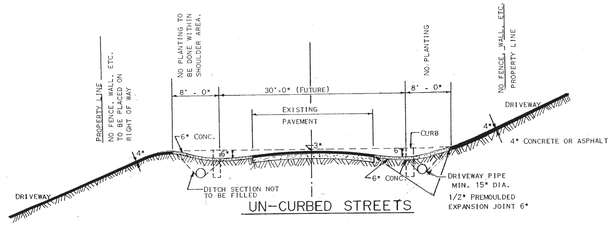

WORK TO BE INSPECTED DURING CONSTRUCTION BY DEKALB COUNTY ENGINEERS. NOTIFY UTILITIES COORDINATOR IN THE ROADS AND DRAINAGE DEPARTMENT, BEFORE BACK-FILLING ANY WORK.

804

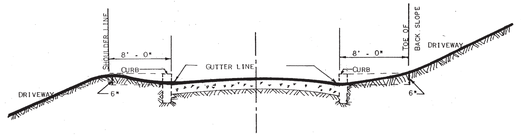
| REVISIONS | |
|---|---|
| DATE | BY |
| 6-65 | RLC |
| 5-71 | JEB |
| 6-71 | WDP |
| 12-71 | RGB |
| 6-82 | DP |

DEKALB COUNTY, GEORGIA
DEPT. OF PUBLIC WORKS
STANDARDS FOR CONSTRUCTION & DESIGN
STANDARD FOR BACKFILLING UTILITY CUTS & REPLACING PAVEMENT
DWG. NO. 804 SHEET 1 OF 1 SHEETS
DRAWN BY WDP | APPD. DATE 6-1-72
CHECKED BY FES
SCALE - NONE | DIRECTOR OF PUBLIC WORKS

710




UN-CURBED STREETS




CURBED STREETS

DRIVEWAYS FOR LOTS ABOVE OR BELOW STREET LEVEL, WHERE STREETS HAVE CURB, ARE TO BE CONSTRUCTED TO AN ELEVATION 6" ABOVE THE GUTTER LINE AT THE NORMAL SHOULDER LINE, OR TOE OF BACK SLOPE AS INDICATED.

710

| REVISIONS | |
|---|---|
| DATE | BY |
| 9-69 | JHG |

DEKALB COUNTY, GEORGIA
DEPT. OF PUBLIC WORKS
SUBDIVISION & DRAINAGE DESIGN
STANDARD PRIVATE ENTRANCE PROFILE
DWG. NO. 710 SHEETS 1 OF 1 SHEETS
DRAWN BY JHG | APPD. DATE 12-29-69
CHECKED BY
SCALE NONE | DIRECTOR OF PUBLIC WORKS


ACR Engineering, inc.
ATLANTA COMMERCIAL & RESIDENTIAL ENGINEERING
600 PINNACLE COURT
SUITE 685
NORCROSS, GA 30071
TEL: (678) 291-0000
FAX: (678) 291-6887


CONSTRUCTION DETAILS
FOR
4860 ADAMS ROAD
L.L. 353 & 360, 18TH DIST.
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

GEORGIA REGISTERED NO. 20748 PROFESSIONAL ENGINEER MARK A. MILLER

| No. | Revision/Issue | By | Date |
|---|---|---|---|
| | | | |

BEING: 2.446 ACRES
LAND LOT(S): 353 & 360
DISTRICT: 18TH
CITY OF DUNWOODY
COUNTY: DEKALB STATE: GEORGIA
DESIGNED: MM DRAWN: BF

DRAWING: LDP/16029E
SNAPSHOT:
DATE: AUGUST 29, 2016
SCALE: H: 1"=30' V: N/A

Sheet 17 of 17