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STATE OF GEORGIA
COUNTY OF FULTON

LIMITED WARRANTY DEED

THIS INDENTURE is made and entered into this 6th day of November, 2002, by and between **Delta Air Lines, Inc.**, a Delaware corporation ("Grantor"), and **Hapeville Development Authority**, a public authority of the State of Georgia ("Grantee") (the words "Grantor" and "Grantee" to include their respective heirs, legal representatives, successors and assigns where the context requires or permits);

WITNESSETH:

THAT FOR AND IN CONSIDERATION of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable consideration in hand paid at and before the sealing and delivery of these presents, the receipt and sufficiency of which are hereby acknowledged, Grantor has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee a fee simple estate in and to the following-described real property (the "Property"):

Those certain tracts or parcels of land lying and being in Land Lots 98 and 127 of the 14th District of Fulton County, Georgia, and being more particularly described in Exhibit A attached hereto and incorporated herein by reference.

THIS CONVEYANCE and the warranties herein contained are expressly made and accepted subject to those liens, encumbrances, restrictions and other matters set forth on Exhibit B, attached hereto and incorporated herein by this reference.

Without limiting the generality of the foregoing, this conveyance is further expressly made and accepted subject to, and Grantor hereby reserves for the benefit of the United States of America (by and through its agency, the Federal Aviation Administration), the City of Atlanta (as operator of the William B. Hartsfield Atlanta International Airport) (the "Airport") and Grantor, and their respective successors and assigns, a perpetual avigation easement (the "Avigation Easement").

Said Avigation Easement includes without limitation the following express rights and restrictions:

1. The height of structures, objects of natural growth and other obstructions on the Property are restricted to a height of not more than 1176 feet above mean sea level (MSL).
2. The beneficiaries of the Avigation Easement shall have a continuing right and easement to take action necessary to prevent the erection or growth of any structure, tree or other object into the air space located directly over the Property to a height greater than 1176 feet above MSL, and to remove from such air space any and all structures, trees or other objects that may extend into such air space to a height above 1176 feet above MSL, together with the right of ingress and egress from and passage over the Property for such purposes.

TO HAVE AND TO HOLD the Property, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, only to the proper use, benefit and behoof of Grantee forever in FEE SIMPLE.

AND GRANTOR will warrant and forever defend the right and title to the Property unto Grantee against the claims of all persons and entities owning, holding, or claiming by, through or under Grantor, but not otherwise.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, Grantor has caused this Deed to be signed and sealed the day and year first above written.

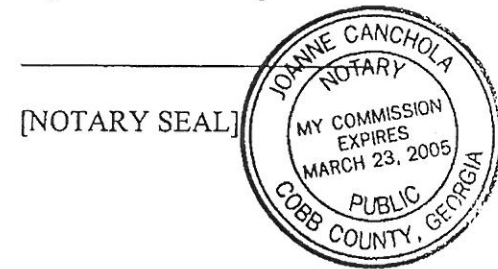
Signed, sealed and delivered
in the presence of:

Rebecca A. Bay
Unofficial Witness

DELTA AIR LINES, INC.

By: John W. Boatright
John W. Boatright, Vice President
Corporate Real Estate & Sourcing Strategy
Corporate Real Estate Management

Joanne Canchola
Notary Public
My Commission Expires On:



ATTEST:

By: [Signature]
Assistant Secretary

[CORPORATE SEAL]



EXHIBIT A

Description of Property

[Note: There is no Property 14.]

BEGIN at a computed point forming the intersection of the western right of way line of Rainey Avenue (60 foot right of way) with the northern right of way line of Orchard Street (40 foot right of way), said point having State Plane Coordinates, Georgia West Zone (NAD 83) of North 1,331,558.90 and East 2,219,779.91, and run thence along said right of way line of Orchard Street North 89 degrees 09 minutes 13 seconds West 153.57 feet to a computed point; thence leave said right of way line and run North 01 degree 30 minutes 42 seconds East 97.90 feet to an iron pin found; thence South 88 degrees 35 minutes 18 seconds East 152.21 feet to a computed point located on the western right of way line of Rainey Avenue; run thence along said right of way line South 00 degrees 42 minutes 33 seconds West 96.39 feet to the POINT OF BEGINNING; said tract containing 14,852 square feet and described according to Survey for Delta Air Lines, Inc. and Lawyers Title Insurance Corporation under Job No. 06-813.09, dated November 19, 1991, prepared by Post, Buckley, Schuh & Jernigan, Inc. and bearing the seal and certification of R.A. Hathaway, Georgia Registered Land Surveyor No. 1550, said Survey being incorporated herein by this reference and made a part hereof.

Property 3 827 Virginia Avenue

ALL THAT TRACT OF LAND lying and being in the City of Hapeville in Land Lot 98 of the 14th District of Fulton County, Georgia, being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, BEGIN at the point formed by the intersection of the northeastern right-of-way line of Virginia Place (50 foot right-of-way) with the southeastern right-of-way line of Virginia Avenue (50 foot right-of-way) and run thence North 56 degrees 07 minutes 23 seconds West 51.34 feet to a point located on the northwestern right-of-way line of Virginia Avenue, said point being the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING as thus established, run thence along the northwestern right-of-way line of Virginia Avenue South 42 degrees 41 minutes 54 seconds West 49.98 feet to a point; thence leave said right-of-way line and run North 55 degrees 16 minutes 02 seconds West 149.67 feet to a point located on the rear lot line of Lot 9 of Sunnybrook Subdivision per plat of said subdivision recorded in Plat Book 22, page 38, Fulton County, Georgia Records; thence North 55 degrees 18 minutes 05 seconds West to an iron pin or iron pipe found on the southeastern right-of-way line of Hamilton Avenue (40 foot right-of-way); thence run along said right-of-way line along the arc of a curve 51.10 feet to an iron pin or iron pipe found (said arc having a radius of 2159.36 feet and being subtended by a chord bearing North 21 degrees 06 minutes 14 seconds East 51.10 feet); thence leave said right-of-way line and run South 55 degrees 11 minutes 39 seconds West 91.23 feet to an iron pin or iron pipe found on the rear lot line of Lot 9 of Sunnybrook Subdivision; thence South 55 degrees 15 minutes 57 seconds East 149.55 feet to the TRUE POINT OF BEGINNING; said tract containing 11,461.05 square feet and described according to survey for Lawyers Title Insurance Corporation and Delta Air Lines, Inc. dated October 3, 1991, prepared by Post, Buckley, Schuh & Jernigan, Inc., bearing the seal and certification of Henry E. Bryan, Jr., Georgia Registered Land Surveyor No. 2378, said survey being incorporated herein by this reference and made a part hereof.

BEING THE SAME PROPERTY AS THE FOLLOWING DESCRIBED PROPERTY:

all that tract or parcel of land lying and being in the City of Mableville in Land Lot 98 of the 14th District of Fulton County, Georgia, being Lot 9, as shown by plat of Sunnybrook Park Subdivision, made by C. D. Robert, C. E., dated February, 1940, a copy of which plat is on file in the office of Atlanta Title Company, Atlanta, Georgia, more particularly described as follows:

BEGINNING on the eastern side of Hamilton Avenue, at a point two hundred sixty-nine and sixty-five hundredths (269.65) feet northerly from the northeast

POOR ORIGINAL

corner of Hamilton and Virginia Avenues, at the line of Lot 10; thence northeasterly along the southeastern side of Hamilton Avenue fifty-one (51) feet to Lot 8; thence southeasterly along the southwestern line of said lot, ninety-one and four-tenths (91.4) feet to Lot 14; thence southwesterly along the northwestern line of said lot fifty (50) feet to Lot 10; thence northwesterly along the northeastern line of said lot seventy-two and six-tenths (72.6) feet to the point of beginning on Hamilton Avenue.

ALSO, all that tract or parcel of land lying and being in Land Lot Ninety-eight (98) of the Fourteenth (14th) District of Fulton County, Georgia, being part of Lot Fourteen (14) in Block "A" of the Rose Hedge Heights Subdivision, more particularly described as follows:

beginning at a point on the Northwest side of Virginia Avenue one thousand (1000) feet Southwest of the Southwestern corner of Virginia Avenue and Central Avenue, and running thence Southwest along the Northwest side of Virginia Avenue fifty (50) feet; thence Northwest along the line between Lots 14 and 15 of said block and subdivision One Hundred Fifty (150) feet; thence Northeast fifty (50) feet; thence Southeast along the line between Lots 13 and 14 of said block and subdivision One Hundred Fifty (150) feet, to the Northwest side of Virginia Avenue, at the point of beginning; being improved property known as No. 827 (formerly No. 43) Virginia Avenue, according to the present system of numbering houses in the City of Hapeville, Georgia.

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TO FIND THE TRUE POINT OF BEGINNING, BEGIN at a concrete monument found at the southwestern terminus of the mitered intersection of the western right-of-way line of Harding Street (50 foot right-of-way) with the northern right-of-way line of Virginia Avenue (variable width right-of-way), said concrete monument located at a point having State Plane Coordinates, Georgia West Zone (NAD 83), of North 1,331,054.62 and East 2,220,122.16, and run thence along said right-of-way line of Virginia Avenue the following courses and distances: North 88 degrees 42 minutes 14 seconds West, 109.93 feet to a computed point; South 01 degree 17 minutes 46 seconds West, 4.00 feet to a computed point; and North 88 degrees 42 minutes 14 seconds West, 28.30 feet to an iron pin found at the TRUE POINT OF BEGINNING; from the TRUE POINT OF BEGINNING as thus established, continue along said right-of-way line of Virginia Avenue North 88 degrees 42 minutes 14 seconds West, 50.33 feet to an iron pin found; thence leave said right-of-way line and run North 00 degrees 03 minutes 42 seconds East, 156.40 feet to a computed point; thence North 88 degrees 19 minutes 43 seconds West, 100.00 feet to a computed point located on the eastern right-of-way line of Rainey Avenue (60 foot right-of-way); thence run along said right-of-way line North 01 degree 15 minutes 00 seconds East, 50.04 feet to a computed point; thence leave said right-of-way line and run South 88 degrees 30 minutes 09 seconds East, 151.31 feet to an iron pin found; thence South 88 degrees 48 minutes 10 seconds East, 149.77 feet to a computed point located on the western right-of-way line of Harding Street, said point located 250 feet in a southerly direction, as measured along the western right-of-way line of Harding Street, from the intersection of said right-of-way line with the southern right-of-way line of Orchard Street; thence run along said right-of-way line of Harding Street South 01 degree 00 minutes 00 seconds West, 50.52 feet to a computed point; thence leave said right-of-way line and run North 88 degrees 47 minutes 53 seconds West, 149.37 feet to an iron pin found; thence South 00 degrees 38 minutes 59 seconds West, 156.03 feet to the iron pin found at the TRUE POINT OF BEGINNING; said tract containing 23,164 square feet and described according to Survey for Delta Air Lines, Inc. and Lawyers Title Insurance Corporation under Job No. 06-813.07, dated November 18, 1991 and revised November 20, 1991, prepared by Post, Buckley, Schuh & Jernigan, Inc., bearing the seal and certification of R.A. Hathaway, Georgia Registered Land Surveyor No. 1550, said survey being incorporated herein by this reference and made a part hereof.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees)

SWCD:

Project Name: Site Plan Usanian Homes LLC Address: 3472 Rainey Ave., Hapeville, GA
City/County: Hapeville/Fulton County Date on Plans: 4/17/19
Name & email of person filling out checklist: Angel M. Marrero - SSSA PI@bellsouth.net

Plan
Page #

Included
Y/N

TO BE SHOWN ON ES&PC PLAN

- | Plan
Page # | Included
Y/N | |
|----------------|-----------------|--|
| | Y | 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) |
| 1-7 | Y | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed) |
| | N/A | 3 Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.*
(A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.) |
| 1,2 | Y | 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls. |
| 1 | Y | 5 Provide the name, address, email address, and phone number of the primary permittee or tertiary permittee. |
| 1,2 | Y | 6 Note total and disturbed acreage of the project or phase under construction. |
| 1 | Y | 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. |
| 1,7 | Y | 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. |
| 2 | Y | 9 Description of the nature of construction activity. |
| 2 | Y | 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. |
| 2 | 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. |
| 2 | Y | 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 23 of the permit. |
| 2 | Y | 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV pg 22 of the permit. |
| | N/A | 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."
in accordance with Part IV.A.5 page 27 of the permit * |
| | N/A | 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." |
| 2,3 | Y | 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. |

- 3

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.
- 3

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."
- 3

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."
- 3

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."
- 3

Y
- 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- N/A
- 22 Indication that the 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.*
- N/A
- 23 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.*
- N/A
- 24 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 23 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.*
- 3

Y
- 25 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.
- 3,4

Y
- 26 Provide BMPs for the remediation of all petroleum spills and leaks.
- N/A
- 27 Description of practices to provide cover for building materials and building products on site.*
- 3,4

Y
- 28 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.
- 3,4

Y
- 29 Description of the practices that will be used to reduce the pollutants in storm water discharges.
- 1

Y
- 30 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).
- 4

Y
- 31 Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.
- 4

N/A
- 32 Provide complete requirements of sampling frequency and reporting of sampling results.*
- Y
- 33 Provide complete details for retention of records as per Part IV.F. of the permit.
- N/A
- 34 Description of analytical methods to be used to collect and analyze the samples from each location.*
- N/A
- 35 Appendix B rationale for NTU values at all outfall sampling points where applicable.*
- N/A
- 36 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. *
- 2

Y
- 37 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.

Y

38 Plan addresses BMPs for all phases of common development including individual building lots and out-parcels, etc. regardless of who owns or operates the individual sites. Include a typical and any situational lots applicable. ONLY # 3472 Ramsey Ave.

1

Y

1

Y

39 Graphic scale and North arrow.

N/A

40 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2,5 or 10

N/A

41 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.

N/A

42 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.

2,3

Y

43 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.

2

Y

44 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

N/A

45 Delineation and acreage of contributing drainage basins on the project site.

N/A

46 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*

N/A

47 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. *

3

Y

48 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

4,2

Y

49 Soil series for the project site and their delineation.

1

Y

50 The limits of disturbance for each phase of construction.

4,3

Y

51 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

5,6

Y

52 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.

5,6

Y

53 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.

5

Y

54 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*This requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre. If applicable, the * checklist item would be N/A.

FLOOD NOTES

BASED ON THE INFORMATION SHOWN ON THE FLOOD HAZARD BOUNDARY MAPS FURNISHED BY FEMA, IT IS MY OPINION THAT THE PROPERTY SHOWN IS OUTSIDE THE 100-YEAR FLOOD HAZARD AREA.
 PANEL# 13121C0366F DATED 09/18/2013

** PURSUANT TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" MEANS TO DECLARE A PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

LEGENDS OF SYMBOLS

P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
GM	GAS MARKER/GAS METER
OOTP	OPEN TOP PIPE
OIPF	IRON PIN FOUND
OIPS	IRON PIN SET 1/2"Ø REBAR W/ CAP
C/G	CURB AND GUTTER
P/L	PROPERTY LINE
R/W	RIGHT-OF-WAY
L.L.L.	LAND LOT LINE
CMF	CONCRETE MONUMENT FOUND
POL	POINT ON LINE
B.O.C.	BACK OF CURB
FNC	FENCE CORNER
EP	EDGE OF PAVEMENT
PC	PROPERTY CORNER
SP	STEEL POLE
PP	POWER POLE
GW	GUY WIRE
JB	EXISTING JUNCTION BOX
WV	EXISTING WATER VALVE
FH	EXISTING FIRE HYDRANT
T.B.M.	TEMPORARY BENCH MARK
B.F.E.	BASE FLOOD ELEVATION
M.F.E.	MINIMUM FLOOR ELEVATION
HW	HEADWALL
SWCB	SINGLE WALL CATCH BASIN
DWCB	DOUBLE WALL CATCH BASIN
OS	OUTLET STRUCTURE (RISER)
DI	DROP INLET
W	WATER METER
W	WATERLINE
SS	SANITARY SEWER LINE
OVP	OVERHEAD POWERLINE
UFO	UNDERGROUND FIBER OPTICS
G	GASLINE
LS	LANDSCAPING
PKS (F)	PK NAIL SET (FOUND)
EX-MH	EXISTING SANITARY SEWER MANHOLE
SSMH	SANITARY SEWER MANHOLE
S.S.E.	SANITARY EASEMENT
C/O	CLEAN-OUT
FDC	FIRE DEPARTMENT CONNECTOR
C.L.F.	CHAIN LINK FENCE
D.E.	DRAINAGE EASEMENT
R.R.E.	RAIL ROAD EASEMENT
H	HEIGHT
UE	UNDERGROUND ELECTRIC
AC	AIRCONDITION UNITS

THIS BLOCK RESERVED FOR THE CLERK OF THE SUPERIOR COURT

SURVEY ORDERED BY:
 NAME: TONY McSWAIN
 ADDRESS: 4495 GINGER WOOD LANE
 STONE MOUNTAIN, GA 30083
 PHONE (24HR.): 770-842-2324

THE FIELD DATA UPON WHICH THIS MAP OR PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 21,276 FEET, AND AN ANGULAR ERROR OF 5" PER ANGLE POINT, AND WAS ADJUSTED USING COMPASS RULE.

THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 89,313 FEET.
 EQUIPMENT USED GTS 220

GENERAL NOTES

- TOGETHER WITH ALL EASEMENTS RECORDED OR UNRECORDED.
- LAST DATE OF FIELD SURVEY 01/28/19
- ALL LINEAR DISTANCES SHOWN ON PLAT SHALL BE HORIZONTAL.
- INFORMATION REGARDING THE PRESENCE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THE INFORMATION IS BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE SITE PLANS, AND PAINT PLACED BY UNDERGROUND SERVICES.
 "NO CERTIFICATION IS MADE AS TO THE ACCURACY"
- ALL BEARINGS AND DISTANCES WERE MEASURED AND USED.
- This survey was prepared without benefit of a title report which may reveal additional conveyances, easements or rights-of-way not shown hereon.

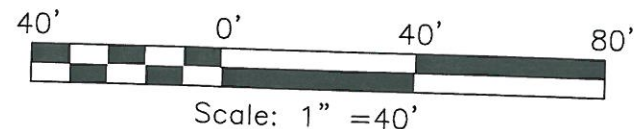
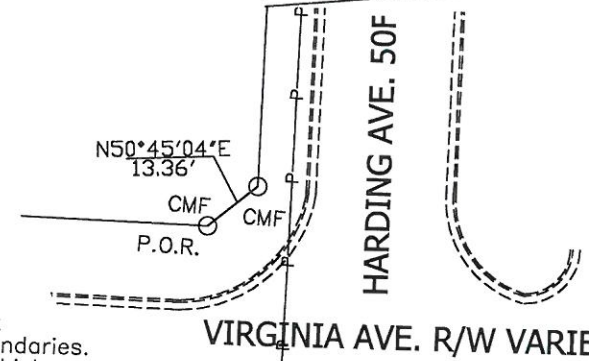
REF. NORTH

D. B. 48821, PG. 2
 SEE SHEET 2 OF 2

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, NOR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.



A'NGEL M. MARRERO P.L.S. #2642
 Certified Design Professional # 4479



REV.	DESCRIPTION	DATE
1	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
2	RETRACEMENT SURVEY AND CONCEPTUAL PLAN FOR: USONIAN HOMES, LLC	
	Land Lot 98 14TH Dist. CITY OF HAPEVILLE FULTON County, GA	
	Drawn By: AMM SR.	Scale: 1"=40'
	Dwg No: 2-190105B	

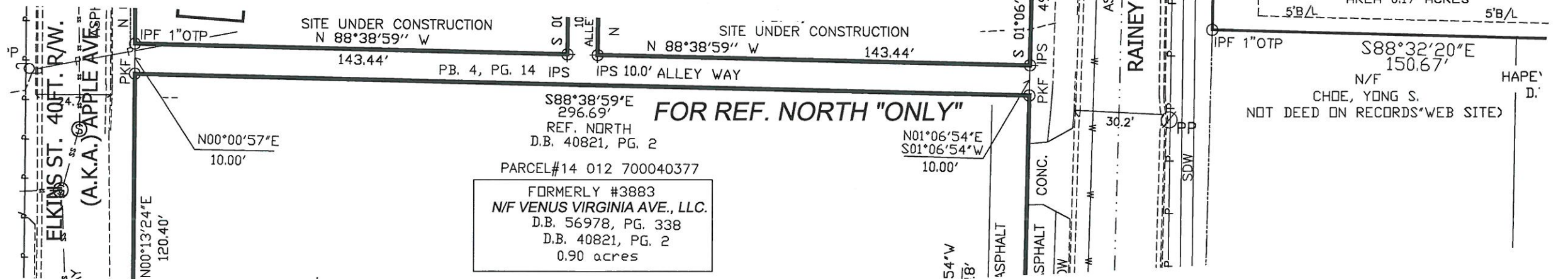
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EP	EDGE OF PAVEMENT
PC	PROPERTY CORNER
SP	STEEL POLE
PP	POWER POLE
GW	GUY WIRE
JB	EXISTING JUNCTION BOX
WV	EXISTING WATER VALVE
FH	EXISTING FIRE HYDRANT
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DI	DROP INLET
W	WATER METER
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SS	SANITARY SEWER LINE
OVP	OVERHEAD POWERLINE
UFO	UNDERGROUND FIBER OPTICS
G	GASLINE
LS	LANDSCAPING
PKS (F)	PK NAIL SET (FOUND)
EX-MH	EXISTING SANITARY SEWER MANHOLE
SSMH	SANITARY SEWER MANHOLE
S.S.E.	SANITARY EASEMENT
C/O	CLEAN-OUT
FDC	FIRE DEPARTMENT CONNECTOR
C.L.F.	CHAIN LINK FENCE
D.E.	DRAINAGE EASEMENT
R.R.E.	RAIL ROAD EASEMENT
H	HEIGHT
UE	UNDERGROUND ELECTRIC
AC	AIRCONDITION UNITS

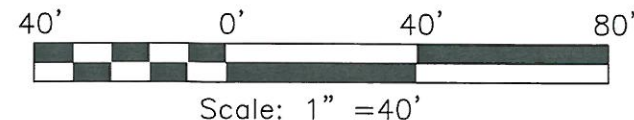
SURVEY ORDERED BY:
NAME: TONY McSWAIN
ADDRESS: 4495 GINGER WOOD LANE
STONE MOUNTAIN, GA 30083
PHONE (24HR.): 770-842-2324



THIS BLOCK RESERVED FOR THE CLERK
OF THE SUPERIOR COURT

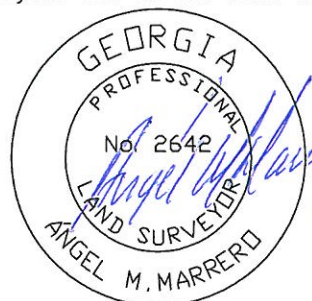


This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, NOR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.



GENERAL NOTES

- TOGETHER WITH ALL EASEMENTS RECORDED OR UNRECORDED.
- LAST DATE OF FIELD SURVEY 01/28/19
- ALL LINEAR DISTANCES SHOWN ON PLAT SHALL BE HORIZONTAL.
- INFORMATION REGARDING THE PRESENCE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THE INFORMATION IS BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE SITE PLANS, AND PAINT PLACED BY UNDERGROUND SERVICES.
"NO CERTIFICATION IS MADE AS TO THE ACCURACY"
- ALL BEARINGS AND DISTANCES WERE MEASURED AND USED.
- This survey was prepared without benefit of a title report which may reveal additional conveyances, easements or rights-of-way not shown hereon.



A'NGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
RETRACEMENT SURVEY FOR: USONIAN HOMES, LLC Land Lot 127 14TH Dist. CITY OF HAPEVILLE FULTON County, GA		
Drawn By: AMM SR.	Scale: 1"=40'	
Dwg No: 2-190105B	Date: 04/17/19	

24 HR CONTACT
NAME: TONY McSWAIN
ADDRESS: 4495 GINGER WOOD LANE
STONE MOUNTAIN, GA 30083
PHONE (24HR.): 770-842-2324
WAM@INTEGRALSTRUCTURE.COM

** PURSUANT TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" MEANS TO DECLARE A PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

REQUIRED SEDIMENT VOLUME= 67 CY. PER ACRE OF DRAINAGE AREA
VOLUME OF SEDIMENT REQUIRED 0.17 X 67 =11.4 C.Y. REQUIRED
GRADED AREA IN FRONT OF SILT FENCE BARRIER TO ATTAIN A FLAT AREA OF 2.0'
AVERAGE HEIGHT FOR CLEAN UP ON SILT FENCE= 14" (1.17')
1.17' X 2'=.086 C.Y. PER FT.
27 USED FOR THIS SITE 0.083 C.Y PER. FT.
0.17 X 67 =11.4 C.Y. REQUIRED 432 LF X 0.083= 35.9 C/Y PROVIDED
THE SD1S PROVIDE MORE THAN ENOUGH FOR STORAGE

MAXIMUM LOT COVERAGE 70% OF TOTAL AREA
0.17 X 70% = 0.119 ACRES (5,184 SQ.FT.)

PROPOSED LOT COVERAGE

1. HOUSE & GARAGE 1,841 SQ.FT.
2. CONC. DWY 1243 SQ. FT.
3. SDW 84 SQ. FT.
TOTAL 3,168 SQ. FT. (.07 ACRES) 42.8%

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- INFORMATION REGARDING THE PRESENCE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THE INFORMATION IS BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE SITE PLANS, AND PAINT PLACED BY UNDERGROUND SERVICES.
"NO CERTIFICATION IS MADE AS TO THE ACCURACY"
- ALL BEARINGS AND DISTANCES WERE MEASURED AND USED.
- BOUNDARY & TOPOGRAPHY IS BASED ON FIELD RUN SURVEY BY SOUTHSIDE SURVEYING.
- CONTOURS INTERVALS 2FT

Zoning UV
STANDARDS R-SF
Setbacks
Front: 15',
Rear: 20',
Side: 5'.
Minimum lot frontage 50'



A'NGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

MONTH

ACTIVITY SCHEDULE	1	2	3	4	5
1. INSTALLATION OF EROSION CONTROL MEASURES	-				
2. CLEARING AND GRADING	-				
3. BUILDING CONSTRUCTION					
5. DRIVEWAY					
6. GRASS (TEMP.) (PERM.)					
7. MAINTAIN EROSION CONTROL					
8. CLEAN UP					

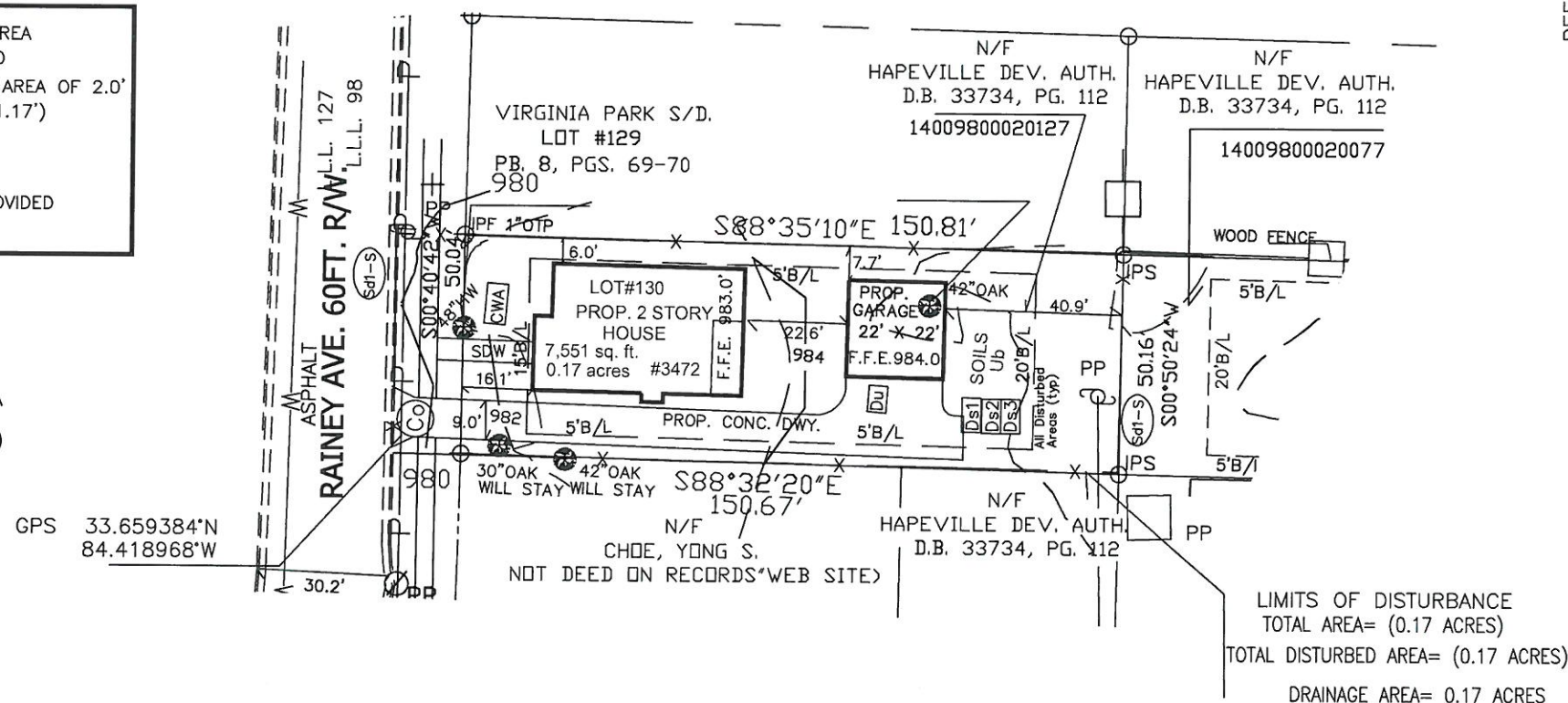
FLOOD NOTES

BASED ON THE INFORMATION SHOWN ON THE FLOOD HAZARD BOUNDARY MAPS FURNISHED BY FEMA, IT IS MY OPINION THAT THE PROPERTY SHOWN IS OUTSIDE THE 100-YEAR FLOOD HAZARD AREA.
PANEL# 13121C0366F DATED 09/18/2013

LEGENDS OF SYMBOLS

P.O.B. POINT OF BEGINNING
P.O.R. POINT OF REFERENCE
GM GAS MARKER/GAS METER
OOP OPEN TOP PIPE
OIPF IRON PIN FOUND
OIPS IRON PIN SET 1/2"Ø REBAR W/ CAP
C/G CURB AND GUTTER
P/L PROPERTY LINE
R/W RIGHT-OF-WAY
L.L.L. LAND LOT LINE
CMF CONCRETE MONUMENT FOUND
POL POINT ON LINE
B.O.C. BACK OF CURB
FNC FENCE CORNER
EP EDGE OF PAVEMENT
PC PROPERTY CORNER
SP STEEL POLE
PP POWER POLE
GW GUY WIRE
JB EXISTING JUNCTION BOX
WV EXISTING WATER VALVE
FH EXISTING FIRE HYDRANT
T.B.M. TEMPORARY BENCH MARK
B.F.E. BASE FLOOD ELEVATION
M.F.E. MINIMUM FLOOR ELEVATION
HW HEADWALL
SWCB SINGLE WALL CATCH BASIN
DWCB DOUBLE WALL CATCH BASIN
OS OUTLET STRUCTURE (RISER)
DI DROP INLET
WM WATER METER
W WATERLINE
SS SANITARY SEWER LINE
OVP OVERHEAD POWERLINE
UFO UNDERGROUND FIBER OPTICS
G GASLINE
LS LANDSCAPING
PKS (F) PK NAIL SET (FOUND)
EX-MH EXISTING SANITARY SEWER MANHOLE
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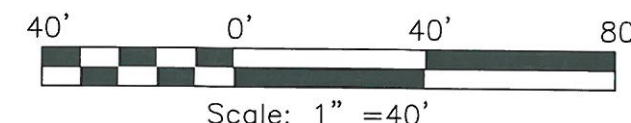
PROP. SLOPE "DRAINAGE"
O OAK TREE
P PINE TREE
---- EXIST. CONTOUR
-1000- PROP. CONTOUR



INITIAL PERIMETER ES&PC PLAN
INTERMEDIATE ES&PC PLAN
FINAL ES&PC PLAN

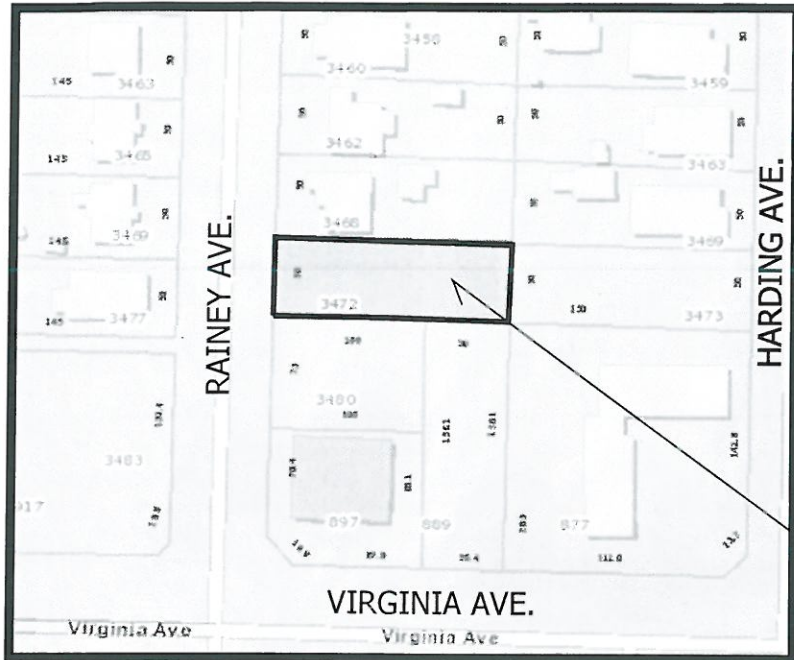
INDEX

- SITE PLAN, GRADING, EROSION CONTROLS PLANS
- 2-4. EROSION CONTROL NOTES
- 5.-6. EROSION CONTROL DETAILS
7. LANDSCAPING PLANS



Scale: 1" = 40'

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
	SITE PLAN, GRADING, EROSION CONTROLS PLANS FOR: USONIAN HOMES, LLC	1 7
	Land Lot 98 14TH Dist.	CITY OF HAPEVILLE FULTON County, GA
	Drawn By: AMM SR.	Scale: 1"=40'
	Dwg No: 2-190105SP	Date: 04/17/19



VICINITY MAP "NTS"

TERTIARY Permittee	Operator	Qualified Personnel
USONIAN HOMES, LLC		
DEVELOPER:	CONTRACTOR:	Land Surveyors (NPDES):
Land Lot 94	14th Dist.	
NAME: TONY McSWAIN		Southside Surveying and Planning LLC.
ADDRESS: 4495 GINGER WOOD LANE		#18 Atlanta Street
STONE MOUNTAIN, GA 30083		McDonough, GEORGIA 30253
PHONE (24HR.): 770-842-2324		(770)-320-8009

Description of Existing Land Use:

Site Purpose and Construction Activity:

One Residential Home

Site Description and Location:

LOCATION: LAND LOT 94, 14th DISTRICT, FULTON COUNTY, GEORGIA

SITE AREA: 0.17 ACRES

TOTAL AREA OF DISTURBANCE: 0.17 ACRES

SOIL TYPES: Ub(Urban Land)

Wetlands:

THERE ARE **NO WETLANDS** LOCATED ON OR WITHIN 200' OF THIS SITE.

Receiving Waters
FLINT RIVER

State Waters

THERE ARE **NO STATE WATERS** LOCATED ON OR WITHIN 200' OF THIS SITE.

Drainage Description

Please refer to the Site Plan, prepared by Southside Surveying for more specific information concerning proposed drainage patterns and slopes.

Slopes After Grading

Maximum Slope is 3:1

Erosion Control Measures

Structural and nonstructural controls will be used onsite to prevent erosion during construction including temporary and permanent grassing, silt fencing.

1. Site Description

The proposed site will be used for 1 Residential home

Approximately 0.17 acres of disturbed land will be utilized for this development. There will be numerous structural and nonstructural controls to be implemented throughout the site. Temporary vegetation as well as permanent vegetation will be strongly utilized and are essential for the development of this lot.

2. Controls

The following controls will be implemented at the construction site:

1. Initial perimeter controls will include silt fencing, and a crushed stone pad to be used at the construction exit.

2. Intermediate grading and drainage BMPs will include temporary grassing and Silt Fence.

3. Final BMPs will include permanent grassing and landscaping.

Stabilization measures will 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. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (i.e., 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 the site by the 14th day after construction activity temporarily ceased.

WASTE DISPOSAL

OTHER CONTROLS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY - AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SPILL PREVENTION & CONTROL

PETROLEUM BASED PRODUCTS, INCLUDING FUELS, LUBRICANTS, TRANSFORMER OIL, TARS, ETC., KEPT ON SITE SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED. ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. ASPHALT SUBSTANCES SHALL BE APPLIED AS LABELED. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. TYPICAL EQUIPMENT AND MATERIALS FOR CLEANUP INCLUDE GLOVES, GOGGLES, RAGS, RESPIRATORS, CAT LITTER, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY FOLLOWING DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. -- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. *FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. *FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. *FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

Certification

"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 100003."

Georgia Licensed Professional #4479

Date

Certification

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

ANGEL M MARRERO, RLS

DATE

Certified Design Professional # 4479

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
EROSION CONTROLS NOTES FOR:		
USONIAN HOMES, LLC		
Land Lot 98	14TH Dist.	CITY OF HAPEVILLE FULTON County, GA
Drawn By: AMM SR.	Scale: 1"=40'	
Dwg No: 2-190105SP	Date: 04/17/19	

HAZARDOUS WASTES

OTHER CONTROLS

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

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

PRODUCT SPECIFIC PRACTICES

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

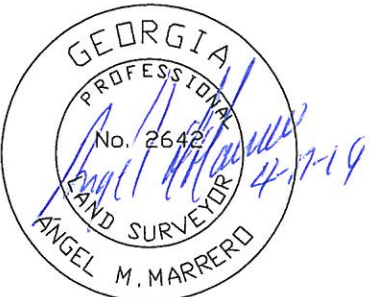
"PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S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

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

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

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

- EROSION CONTROL NOTES:
1. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 2. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONTRUCTION PHASES PERMIT.
 3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, LAND DISTURBING ACTIVITIES.
 4. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON ALL SLOPES
 5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 6. AMENDMENTS/ REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 7. INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR. 100003.
 8. WASTE MATERIALS SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 9. IT IS THE RESPONSIBILITY OF THE TERTIARY PERMITTEE TO PREPARE AND FILE THE NOTICE OF INTENT.
 10. 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 & PERMITS.
 11. THIS ES&PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL & SANITARY SEWER REGULATIONS DURING AND AFTER CONSTRUCTION (SEE SHEET NPDES FOR WASTE DISPOSAL NOTES).
 12. 67 CY/ AC. SEDIMENT STORAGE SUBSTANTIALLY HANDLED BY PERIMETER SD1-S.
0.17 X 67 =11.4 C.Y. REQUIRED 432 LF X 0.083= 35.9 C/Y PROVIDED
 13. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO, AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.
 14. CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LANDFILL. SOLID WASTE BURNING ON SITE IS PROHIBITED.
 15. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.
 16. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED DAILY.
 17. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE DEV. DEPT. STARTING WITH THE ISSUANCE OF THE DEV. PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
 18. WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
SEE DETAIL SHEET# 5
 19. No additional storm pipe added for this project.



ANGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

REV.		DESCRIPTION	DATE
SOUTHSIDE		#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098	3/7
SURVEYING & PLANNING		LSF000831	
EROSION CONTROLS NOTES FOR:			
USONIAN HOMES, LLC			
Land Lot 98		14TH Dist.	CITY OF HAPEVILLE FULTON County, GA
Drawn By: AMM SR.		Scale: N.T.S.	
Dwg No: 2-190105SP		Date: 04/17/19	

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 permittee's 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.

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 copy of all Notices of Intent submitted to EPD;
- A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- A copy of all sampling information, results, and reports required by this permit;
- A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- 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 copy of all Notices of Intent submitted to EPD;
- 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;
- A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit; and
- 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 copy of all Notices of Intent submitted to EPD;
- A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- A copy of all sampling information, results, and reports required by this permit;
- A copy of all inspection reports generated in accordance with Part IV.D.4.c. of this permit;
- A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- 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.



A'NGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
EROSION CONTROLS NOTES FOR:		
USONIAN HOMES, LLC		
CITY OF HAPEVILLE		
Land Lot 98 14TH Dist. FULTON County, GA		
Drawn By: AMM SR.		Scale: N.T.S.
Dwg No: 2-190105SP		Date: 04/17/19

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 permittee's 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.

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.

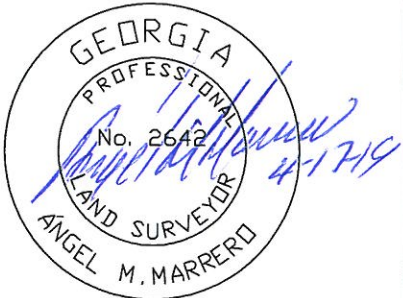
2. Each secondary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- 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:

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- 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.



A'NGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098 4/7
EROSION CONTROLS NOTES FOR:		
USONIAN HOMES, LLC		
Land Lot 98 14TH Dist.		CITY OF HAPEVILLE FULTON County, GA
Drawn By: AMM SR.		Scale: N.T.S.
Dwg No: 2-190105SP		Date: 04/17/19

MATERIAL	RATE	DEPTH
STRAW OR HAY	2.5TON/ACRES	6"-10"
WOOD WASTE CHIPS, SAWDUST, BARK	6 TO 9TON/Ac	2"-3"
CUTBACK ASPHALT	1200GAL/Ac	_____
POLYETHYLENE FILM	SEE MANUFACTURER'S RECOMMENDATION	_____
GEOTEXTILE JUTE MATTING	SEE MANUFACTURER'S RECOMMENDATION	_____

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
RYEGRASS (ANNUAL)	40 LBS/ACRE	AUGUST - APRIL
MILLET, PEARL	50 LBS/ACRE	APRIL - AUGUST
RYE	168 LBS/ACRE	AUGUST - DECEMBER

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
BERMUDA, COMMON (HULLED)	6-10 LBS/ACRE	MARCH - JUNE
BERMUDA, COMMON (UN-HULLED)	6-10 LBS/ACRE	OCTOBER - FEBRUARY
FESCUE, TALL	30 -50 LBS/ACRE	AUGUST - OCTOBER MARCH - APRIL
LESPEDeza	60 - 75 LBS/ACRE	JANUARY - DECEMBER

TESTS

ANGEL M. MARRERO

18. WASHOUT CONCRETE DETAIL

CONCRETE WASHOUT

Plywood 4' x 2' painted white

Black letters 6" height

Lag screws (0.5")

Wood post (4" x 4" x 8')

3'

3'

3' Min

8" Min

Original ground

TYPICAL SECTION EARTHEN BERM

CONCRETE TOOLS, MIXER CHUTES, HOPPERS & THE REAR OF V VEHICLES ARE TO BE WASHED DOWN IN TEMPORARY WASHDOWN FACILITY ONLY.

WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

NOTES

CONCRETE WASHOUT SIGN DETAIL

1. The concrete washout sign shall be installed within 30' of the temporary concrete washout facility.

2. 10 Mil Plastic liner shall be anchored with gravel-filled bags for below grade concrete washout facility.

SECTION B-B

Earthen berm

Plastic liner over berm

Gravel-filled bag

3'

Top of cut

5'

Original ground

Plastic liner placed under berm (entry side only)

1.5'

Plastic liner

CWA

PLAN

TEMPORARY CONCRETE WASHOUT FACILITY (Below Grade)

10' Min

15' Min

4' Min

Earthen berm

Gravel-filled bags

Edge of plastic liner

Top of cut

1:1

1:3

Entry side of washout facility

Earthen berm

Plastic liner placed under berm (entry side only)

4" Min

SECTION A-A

Plastic liner over berm

Earthen berm

Gravel-filled bag

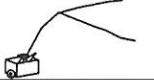
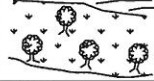
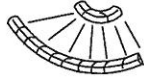
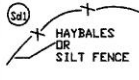
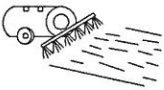
Plastic liner

Earthen berm

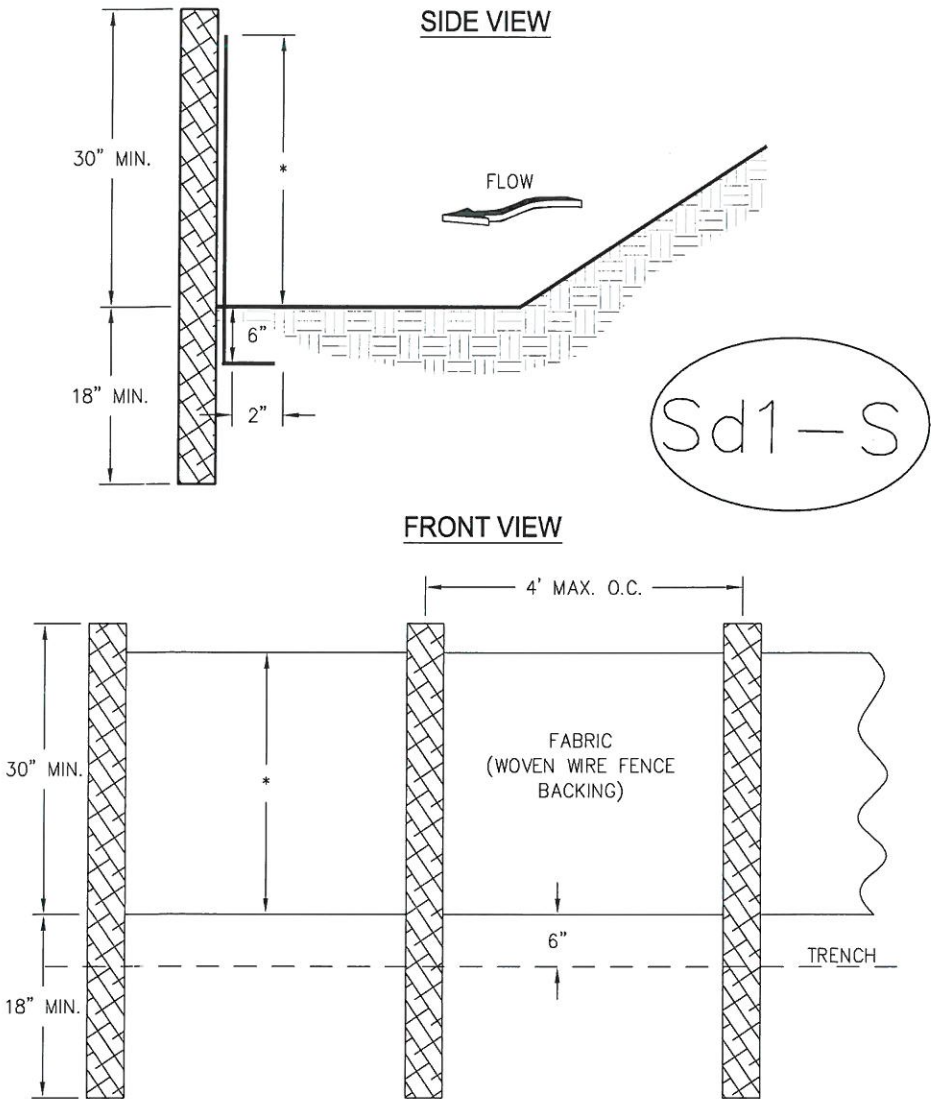
Gravel-filled bag

Original ground

EROSION & SEDIMENT CONTROL

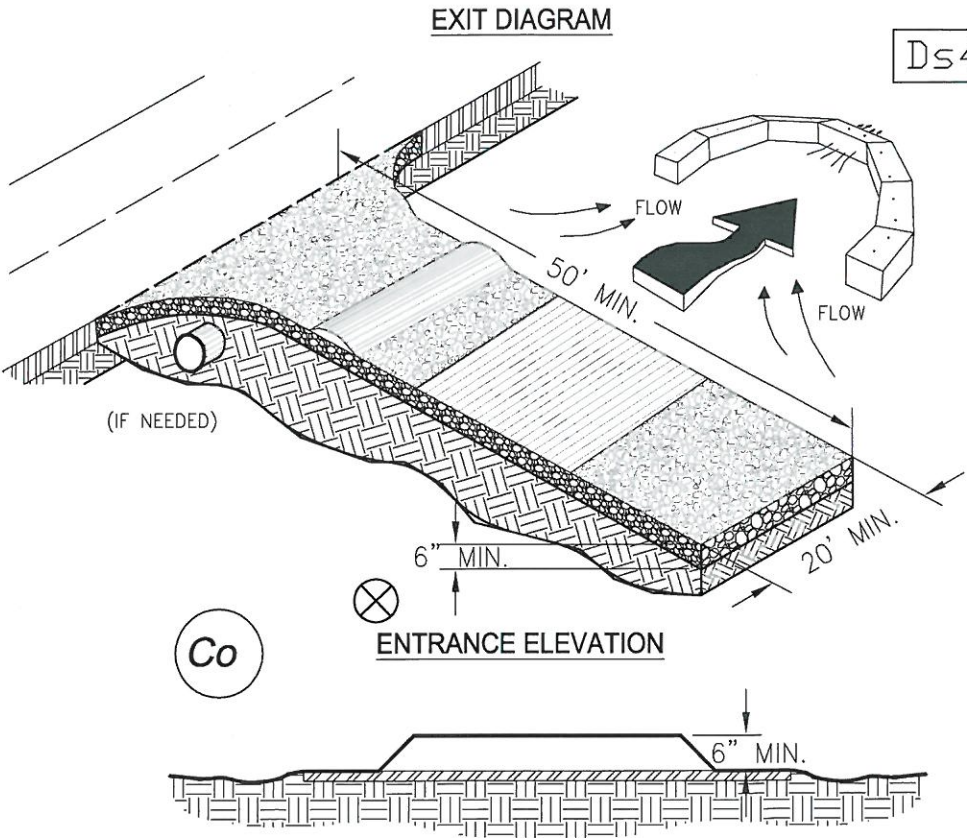
CODE	PRACTICE	DETAIL	MAP SCALE	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES TO PROTECT STREETS.
Ds1	DISTURBED AREA STABILIZATION WITH MULCHING ONLY			FOR ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION WITH TEMPORARY SEED			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS
Ds3	DISTURBED AREA STABILIZATION WITH PERMANENT VEG.			ESTABLISHING A PERMANENT VEGETATIVE COVER
Sd1	SEDIMENT BARRIER TYPE-C			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OR STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
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.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air dust on construction site, or similar sites.

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.

CRUSHED STONE CONSTRUCTION EXIT



- 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.

Ds4 - DISTURBED AREA STABILIZATION
(WITH SODDING)

SPECIES	FERTILIZER RATE	GROWING SEASON
BERMUDAGRASS	1500 LBS/ACRE	WARM WEATHER
BAHIA GRASS	1500 LBS/ACRE	WARM WEATHER
CENTIPEDE	1500 LBS/ACRE	WARM WEATHER
TALL FESCUE	1500 LBS/ACRE	COOL WEATHER

- NOTES:
1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
 2. SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" OR SOIL. NOT INCLUDING ROOTS OR THATCH.
 3. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
 4. THE SOD SHOULD BE INSTALLED ACCORDING TO TABLE 6-6.2 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"



ANGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

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	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098 6/7
EROSION CONTROLS DETAILS FOR: USONIAN HOMES, LLC Land Lot 98 14TH Dist. CITY OF HAPEVILLE FULTON County, GA		
Drawn By: AMM SR.		Scale: N.T.S.
Dwg No: 2-190105SP		Date: 04/17/19

PLANT NAME
UNDERSTORY TREES

SYM.

CM NATCHEZ CRAPE MYRTLE/LAGERSTROEMIA INDICA

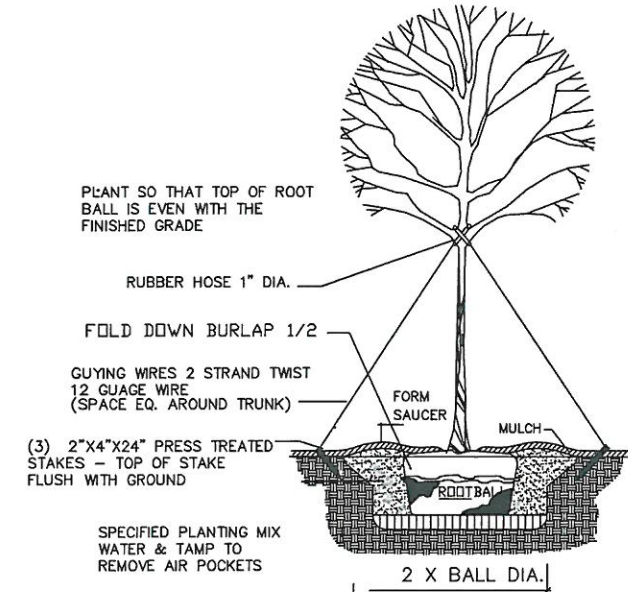
SHRUBS

SYM.

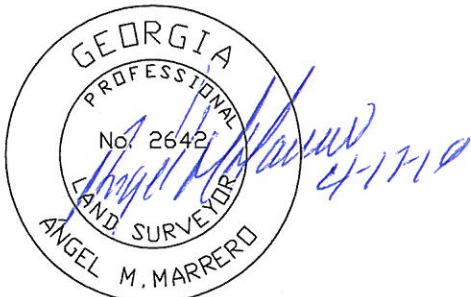
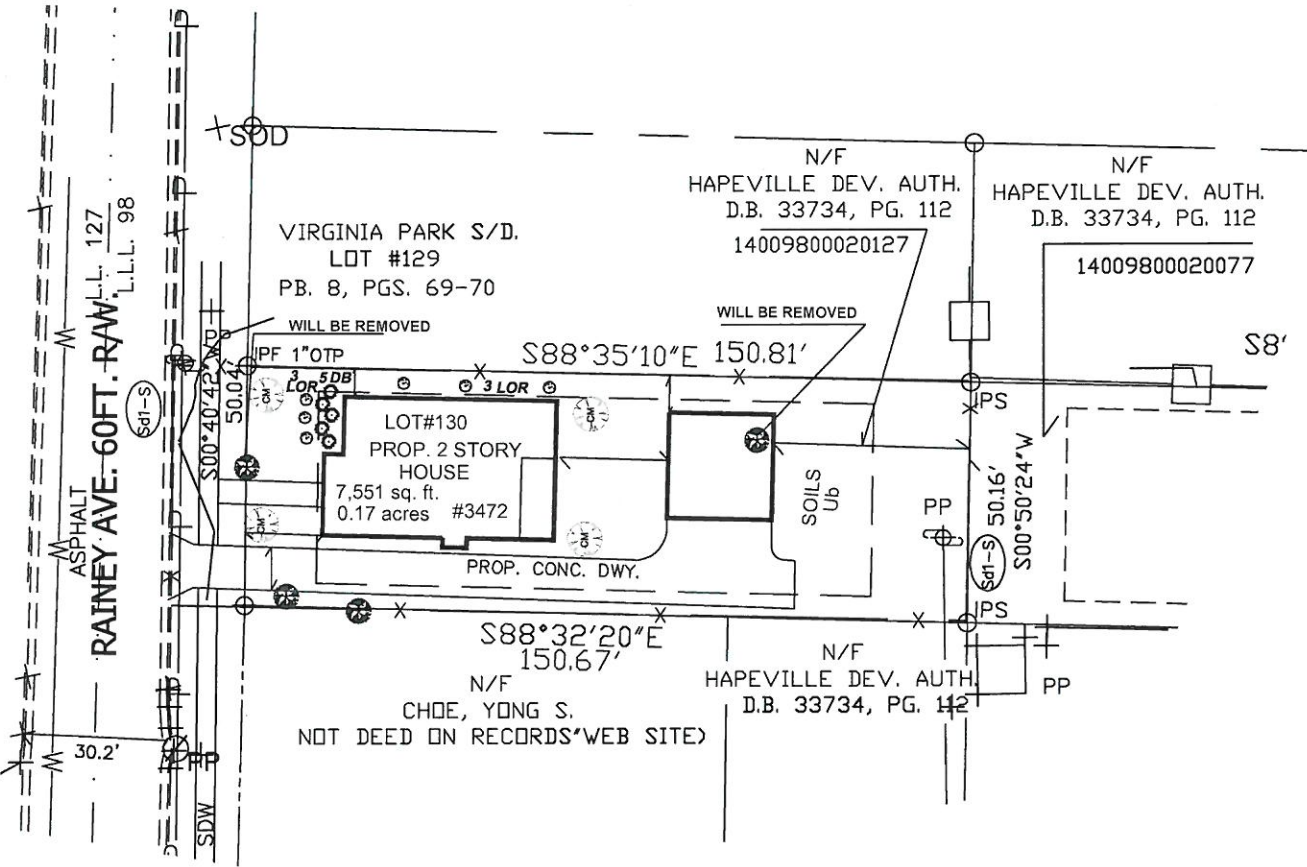
DB DWARF BURFORDI HOLLY/ILEX CORNUTA BUR.
LOR DWF. RED LOROPETALUM/LOR. CHINENSE

SOD BERMUDAGRASS

GRASS - COMMON BERMUDA GRASS



LARGE TREE PLANTING / STAKING DETAIL
N.T.S.



A'NGEL M. MARRERO P.L.S. #2642
Certified Design Professional # 4479

LEGENDS OF SYMBOLS

- P.O.B. POINT OF BEGINNING
P.O.R. POINT OF REFERENCE
GM GAS MARKER/GAS METER
OOP OPEN TOP PIPE
OIPF IRON PIN FOUND
OIPS IRON PIN SET 1/2"Ø REBAR W/ CAP
C/G CURB AND GUTTER
P/L PROPERTY LINE
R/W RIGHT-OF-WAY
L.L.L. LAND LOT LINE
CMF CONCRETE MONUMENT FOUND
POL POINT ON LINE
B.O.C. BACK OF CURB
FNC FENCE CORNER
EP EDGE OF PAVEMENT
PC PROPERTY CORNER
SP STEEL POLE
PP POWER POLE
GW GUY WIRE
JB EXISTING JUNCTION BOX
WV EXISTING WATER VALVE
FH EXISTING FIRE HYDRANT
T.B.M. TEMPORARY BENCH MARK
B.F.E. BASE FLOOD ELEVATION
M.F.E. MINIMUM FLOOR ELEVATION
HW HEADWALL
SWCB SINGLE WALL CATCH BASIN
DWCB DOUBLE WALL CATCH BASIN
OS OUTLET STRUCTURE (RISER)
DI DROP INLET
WM WATER METER
W WATERLINE
SS SANITARY SEWER LINE
OVP OVERHEAD POWERLINE
UFO UNDERGROUND FIBER OPTICS
G GASLINE
LS LANDSCAPING
PKS (F) PK NAIL SET (FOUND)
EX-MH EXISTING SANITARY SEWER MANHOLE
SSMH SANITARY SEWER MANHOLE
S.S.E. SANITARY EASEMENT
C/O CLEAN-OUT
FDC FIRE DEPARTMENT CONNECTOR
C.L.F. CHAIN LINK FENCE
D.E. DRAINAGE EASEMENT
R.R.E. RAIL ROAD EASEMENT
H HEIGHT
UE UNDERGROUND ELECTRIC
AC AIRCONDITION UNITS

HW HARDWOOD



Scale: 1" = 40'

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
LANDSCAPING PLANS FOR: USONIAN HOMES, LLC Land Lot 98 14TH Dist. CITY OF HAPEVILLE FULTON County, GA		
Drawn By: AMM SR.		Scale: 1"=40'
Dwg No: 2-190105SP		Date: 04/17/19