Sheet: 1 of 3
Property ID:
Lot #: 35
File #:
App ID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N Community House Rd Charlotte NC 28277
Proposed Facility: Single Family Design Flow (.1949) 600gpd
Location of Site: Lot 35 Bells
Applicant: Sam
Date Evaluated: 10-2-2013 Revised 9/15/14
Property Size: 2.1 ac
Property Recorded: 2013
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	SS A	0-3	GR SL	VFR NS NP	10YR 3/2				
	E	3-8	GR SL	VFR NS NP	10YR 6/6				
	BT1	8-25	SBK SCL	FI SS SP	(10YR 6/8 15% 7.5YR 6/8				PS 0.25
	BT2	25-34	SBK SCL	FI SS SP	(10YR 6/6 25% 7.5YR 5/8 10% 7.5YR 8/3				PS 0.25
	BC	34-53	M SCL	FI SS SP	(7.5YR 5/8 10% 7.5YR 5/1 20% 10YR 6/8				UN
2	A	0-2	GR SL	VFR NS NP	10YR 3/2				
	E	2-12	GR SL	VFR NS NP	10YR 6/6				
	BT1	12-19	GR SL	VFR NS NP	10YR 6/8 7.5YR 6/8 15% 7.5YR 3/4 15%				
	BT2	19-28	SBK SCL	FR NS NP	10YR 5/6 7.5YR 6/8, 15%	PS			PS, 0.1
	BT3	28-44	SBK SCL	FR, NS NP	10YR 6/8 5YR 5/8 20% 7.5YR 5/1 15%	UN			UN

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	DRIP
Site LTAR	0.3	0.125

Other Factors (.1946):
Soil Evaluation By: JH, [illegible]
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST JASON M. HA... 1248 STATE OF NORTH CAROL...

OK - 9/17

Sheet: 1 of 3
Property ID:
Lot #: 35
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N community House Rd Charlotte NC 28277
Proposed Facility: Single Family Design Flow (.1949) 600gpd
Location of Site: Lot 35 Bells

Applicant: Sam
Date Evaluated: 10-2-2013
Property Size: 2.1 ac
Property Recorded: 2013

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon	Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	SS	A	0-3	GR SL	VFR NS NP	10YR 3/2				
		E	3-8	GR SL	VFR NS NP	10YR 6/6				
		BT1	8-25	SBK SCL	FI SS SP	(10YR 6/8 15% 7.5YR 6/8				PS 0.35
		BT2	25-34	SBK SCL	FI SS SP	(10YR 6/6 25% 7.5YR 5/8 10% 7.5YR 8/3				PS 0.35
		BC	34-53	M SCL	FI SS SP	(7.5YR 5/8 10% 7.5YR 5/1 20% 10YR 6/8				UN
2		A	0-2	GR SL	VFR NS NP	10YR 3/2				
		E	2-12	GR SL	VFR NS NP	10YR 6/6				
		BT1	12-19	GR SL	VFR NS NP	10YR 6/8 7.5YR 6/8 15% 7.5YR 3/4 15%				
		B+2	19-28	SBK SCL	FR NS NP	10YR 5/8 7.5YR 6/8, 15%	PS			PS, 35
		B+3	28-49	SBK SCL	FR, NS NP	10YR 6/8 5YR 5/8 20% 7.5YR 5/1 15%	UN			UN

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	DRIP
Site LTAR	0.3	0.125

Other Factors (.1946):
Soil Evaluation By: JH
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST
JASON M. HA
1248
STATE OF NORTH CAROLINA

OLD see new

Sheet: 2 of 3
Property ID:
Lot #: 35
File #:
App ID:

CCSC SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N Community House Rd Charlotte NC 28277
Proposed Facility: Single family Design Flow (.1949): 600 gpd
Location of Site: Bells Cross Rd
Water Supply: Well [X] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: Auger [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Same
Date Evaluated: 5/1/14
Property Size: 2.1 ac
Property Recorded: 2013

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
3									
	A	0 7"	Im Sr	VFR, d, NP	7.5YR 4/2				
	E	2 8"	LS Gr	VFR, NS, NP	10YR 6/4				0,4
	BT	8-24	Clay, SBK	FI SS SP	5 YR 5/6	PS			0.3
	BT2	24 36	Clay SB-	F SS, SP	5 YR 5/6 2.5YR 5/8 2.5YR 5/6 2.5YR 4/6 20%	PS			0,275
	BC	36-	SCL SBK	FR SS, P			5		0 275

Description	Initial System	Repair System
Available Space (.1949)	4CS	4CS
System Type(s)	Mounded	Drip
Site LTAR	0.3	0.125

Other Factors (.1949):
Soil Evaluation By:
Others Present:
Site Classification (.1949):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST JASON M. HA 1248 STATE OF NORTH CAROLINA

OK ECHO
9-17-14

Sheet: 2 of 3
Property ID:
Lot #: 15
File #:
AppID:

CCSC SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEMS

Owner: Meritage Homes
Address: 11605 N Community House Rd Charlotte NC 28277
Proposed Facility: Single Family Design Flow (.1949) 600 gpd
Location of Site: Bells Crossing
Water Supply: well [x] Public [ ] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: Auger [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Same
Date Evaluated: 5/1/14
Property Size: 2.1 ac
Property Recorded: 2013

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
3									
	A	0 2"	Loamy Gr	VFR, NS, NP	7.5YR 4/2				
	E	2 8"	LS Gr	VFR, NS, NP	10YR 6/4				0.4
	BT	8-24	Clay, SBK	FI SS SP	5YR 5/6	PS			0.3
	BT2	24 36	Clay SBK	F SS, SP	5YR 5/6	PS			0.275
	BC	36-	SCL SBK	FR SS, P	2.5YR 5/8 ? 5YR 5/6 2.5YR 4/6 20		S		0 275

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Recycled	Drip
Site LTAR	0.3	0.125

Other Factors (.1946):
Soil Evaluation By:
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST JASON M. HA 1948 STATE OF NORTH CAROLINA

old
All
New

Sheet: 3 of 3
Property ID:
Lot #: 35
File #:
Appl ID:

CCSC SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N Community House Rd Charlotte NC 28277
Proposed Facility: Single Family Design Flow (.1949) 1200
Location of Site: Bells Crossing
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Same
Date Evaluated: 10-2-2013
Property Size: 2.1 ac
Property Recorded: 2013

Revised 9/25/14

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
4	SS A	0-3	GR SL	VFR NS NP	10YR 3/2				
	E	3-7	GR SL	VFR NS NP	10YR 5/4				
	B1	7-30	SBK CL	FI SS SP	5YR 5/8 10YR 6/8 10%	PS			PS 0.25
	BC	30-39	SBK SCL	FI SS SP	5YR 5/8 10YR 7/8 20%	PS			PS 0.25
	C	39-54	SG SL	VFR NS NP	7.5YR 6/8		S		S .4

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Drip
Site LTAR	0.3	0.125

Other Factors (.1946):
Soil Evaluation By: JH, KB
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST JASON M. HALL 1248 STATE OF NORTH CAROLINA

OK 9-17-14

Sheet: 3 of 3
Property ID:
Lot #: 35
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N Community House Rd Charlotte NC 28277
Applicant: Same
Date Evaluated: 10-2-2013
Proposed Facility: Single Family Design Flow (.1949) 600
Property Size: 2.1 ac
Location of Site: Bells Crossing
Property Recorded: 2013
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
4	SS A	0-3	GR SL	VFR NS NP	10YR 3/2				
	E	0-7	GR SL	VFR NS NP	10YR 5/4				
	Bt	7-30	SBK CPN	FI SS SP	5YR 5/8	PS			PS .7
					10YR 6/8 10%				
	BC	30-39	SBK SCL	FI SS SP	5YR 5/8	PS			PS .33
					10YR 7/8 20%				
	C	39-39+	SG SL	VFR NS NP	7.5YR 6/8		S		S .4

Description	Initial System	Repair System
Available Space (.1945)	yes	yes
System Type(s)	Accepted	Drip
Site LTAR	0.3	0.125

Other Factors (.1948):
Soil Evaluation By: JH, JM
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

LICENSED SOIL SCIENTIST JASON M. HA 1248 STATE OF NORTH CAROLINA

old see new

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	ORANGE	4.1	140
2	PINK	7.1	148
3	YELLOW	8.9	146
4	RED	10.8	63

Revised
5-5-15
ALP

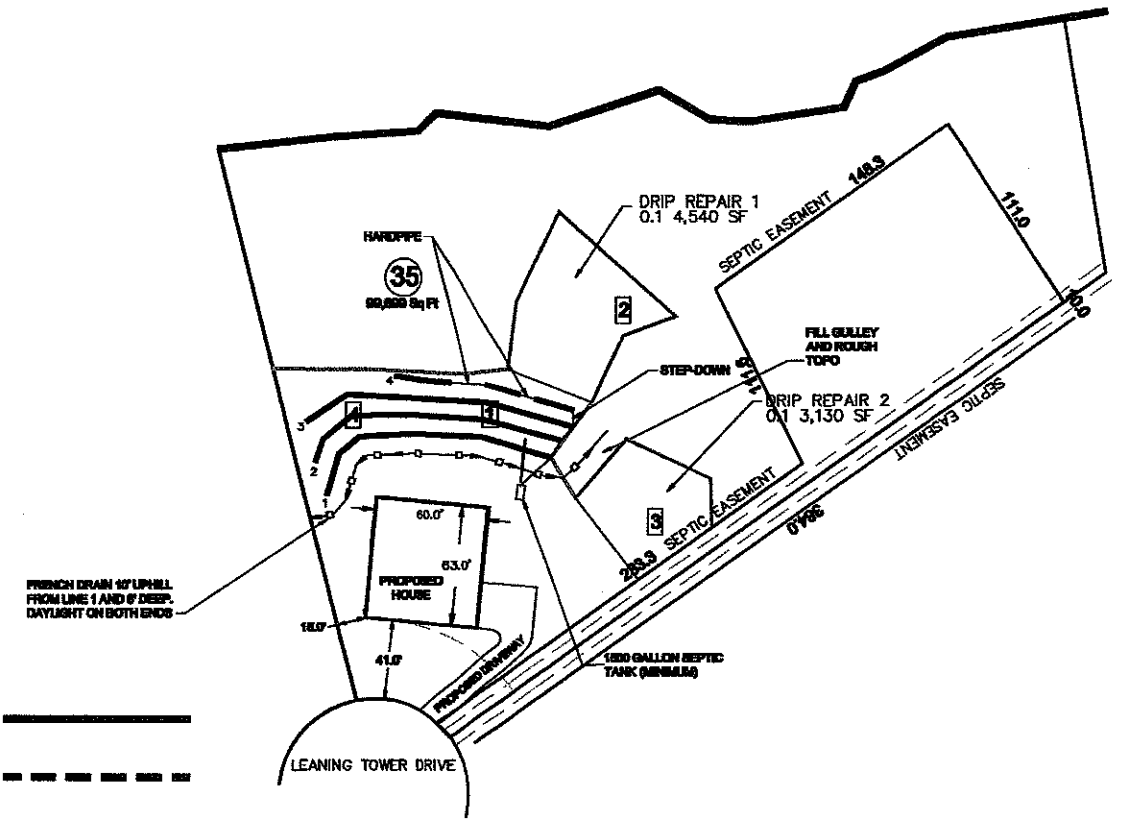
LOT 35 BELLS CROSSING SUBDIVISION

4-BEDROOM ACCEPTED STATUS GRAVITY SYSTEM
LINES 1-4 TOTAL 497 LINEAR FEET
EZFLOW OR CHAMBER
LTAR 0.25
25% REDUCTION
18" TRENCH DEPTH MAX

4-BEDROOM SUBSURFACE DRIP REPAIR
AREA REQUIRED AT 0.1 LTAR 4900 SF
TOTAL AREA AVAILABLE 7,670 SF
LTAR 0.1
6" TRENCH DEPTH MAX

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

SOIL PROFILES AND ANALYSIS PROVIDED BY
CENTRAL CAROLINA SOIL CONSULTING PLLC



PRIMARY SYSTEM

REPAIR SYSTEM

REPAIR LINES (NOT USED)

PIT OR AUGER BORING [1]

0 30 60

SCALE:
1" = 60 ft.

Bateman Civil Survey Company
Engineers • Surveyors • Planners
2000 N. Main Street, Holly Springs, NC 27540 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-3276

LOT 35
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY
REVISED 09/05/14
DATE: 3/26/13 DRAWN BY AH CHECKED BY: TMB