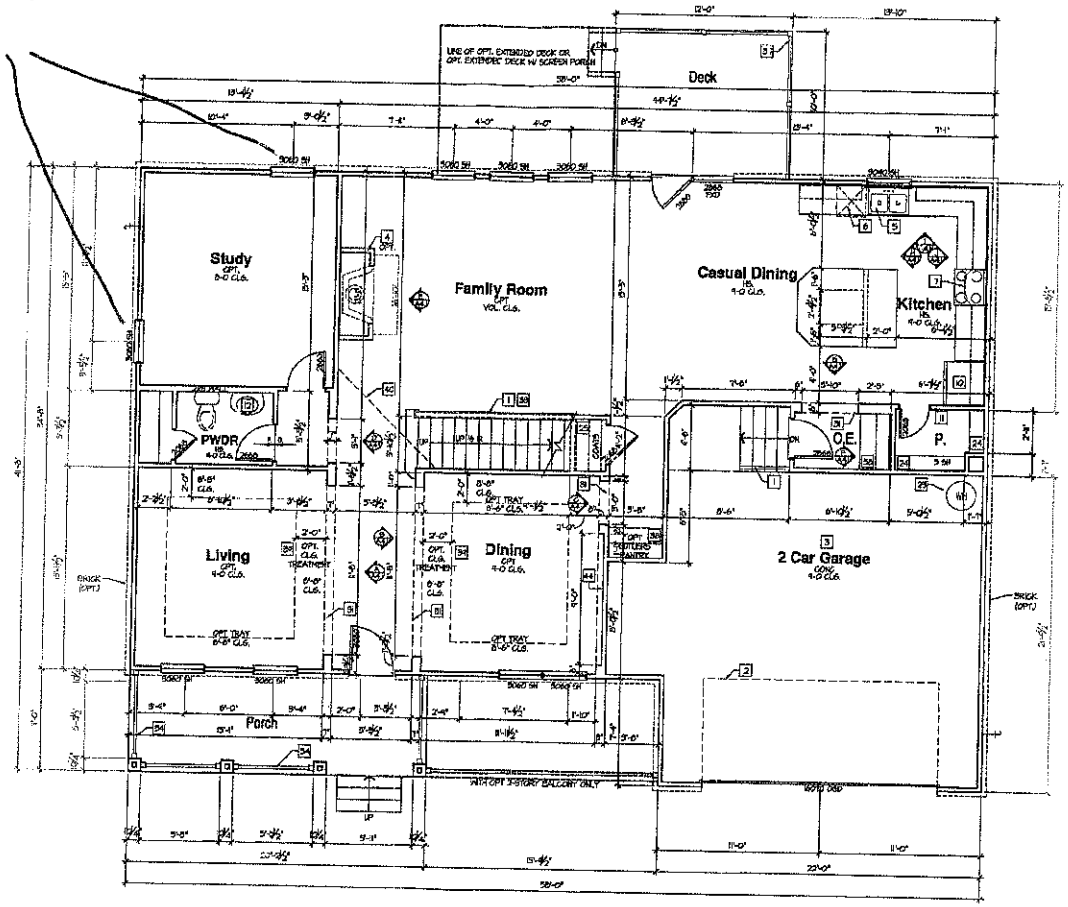
Non Egress Windows



Main Floor Plan - A

ALL EXTERIOR HOUSE WALLS MAY BE OPTIONAL 2X6 STUD WALLS - SEE STRUCTURAL PLANS FOR DETAILS.

SQUARE FOOTAGES "CLARIDAL" - A	
MAIN FLOOR	1828
UPPER FLOOR	1647
PORTICO	66
GARAGE	544
PORCH	148
OPT. HOME SHOP	97
OPT SCREENED PORCH	192
TOTAL	4284

FLOOR PLAN NOTES:

MAIN FLOOR

THE FOLLOWING KEYNOTES REFERENCE THE SYMBOLS AS SHOWN ON PLANS.

1. 36" RAILING / GUARDRAIL IS PROVIDED. ALL RAILING / GUARDRAIL BALUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALUSTERS. RAILING/HANDRAILS ARE TO BE AT A 34" MINIMUM TO 38" MAXIMUM HEIGHT A.F.F. WITH RETURNS PER LOCAL CODE. RAILING AT GUARDRAIL LOCATIONS TO BE AT 42" MINIMUM A.F.F. OPT. RAILING.
2. LINE OF OVERHEAD GARAGE DOOR IN OPEN POSITION.
3. SLOPE GARAGE FLOOR 1/8" PER FOOT TOWARD OVERHEAD GARAGE DOOR OPENING.
4. FIREPLACE AS SPECIFIED BY BUILDER. INSTALL PER MANUFACTURERS SPECIFICATIONS. ALL FACTORY BUILT FIREPLACES SHALL COMPLY WITH LOCAL CODES.
5. SINK W/ GARBAGE DISPOSAL
6. DISHWASHER
7. RANGE
8. COOK TOP
9. OVEN
10. REFRIGERATOR SPACE.
11. PANTRY
12. PRODUCAL SINK.
13. 42" X 42" SHOWER
14. 42" X 60" SHOWER
15. 42" X 60" TUB
16. 60" X 60" CORNER TUB
17. 60" X 60" TURNSHOWER
18. 72" X 60" TURNSHOWER
19. LINEN SHELVING PER BUILDER SPECS.)
20. WASHER SPACE
21. DRYER VENT
22. OPTIONAL LAUNDRY SINK.
23. PROVIDE NON-COMBUSTIBLE PLATFORM ELEVATED 6" ABOVE GARAGE FLOOR FOR WATER HEATER.
24. 5 SHELVES PER BUILDER SPECS.
25. ROD AND SHELF PER BUILDER SPECS.
26. ATTIC ACCESS (22"x30" U.N.O.)
27. ATTIC ACCESS W/ 8'-0" VAS (22 W/HOH" U.N.O.
28. GYPSUM BOARD CEILING @ 8'-0" A.F.F. MAIN FLOOR & 7'-0" AT UPPER FLOOR U.N.O.
29. GYPSUM BOARD ARCH @ 7'-2" TO 8'-0".
30. GYPSUM BOARD SOFFIT, SEE ELEVATIONS W/ HOF CAP.
31. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR FINISH.
32. PLANT SHELF, SEE EXTERIOR ELEVATIONS.
33. HALF WALL W/ WOOD CAP OR OPTIONAL LOW WALL WITH RAILING ABOVE.
34. PORCH RAIL, SEE ELEVATION.
35. 36"/36" CORCRETE SHOOT.
36. 6x8 BEAM.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
39. OPTIONAL COFFERED CEILING @ 8'-6" PER ELEVATIONS.
40. LINE OF FRAMING ABOVE.
41. LINE OF FRAMING BELOW.
42. 2X4 LOW WALL 42" A.F.F.
43. 2X8 LOW WALL 42" A.F.F.
44. ARC NICHE
45. HORIZONTAL LAUNDRY CHUTE
46. LOW WALL 42" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-6"
48. LOW WALL 30½" A.F.F.

TYPICAL CONSTRUCTION ASSEMBLIES:

A. TYPICAL ROOF CONSTRUCTION.
ASPHALT ROOF SHINGLES

B. TYPICAL FLOOR CONSTRUCTION.
FINISH FLOORING ON 3/4" TONGUE & GROOVE FLOOR SHEATHING OR FLOOR TRUSSES OR FLOOR JOISTS AS NOTED ON STRUCTURAL DRAWINGS.

C. SLAB ON GRADE FLOOR CONSTRUCTION.
4" CONCRETE SLAB, EXCEPT AS SPECIFIED BY SOIL REPORT, AND STRUCTURAL ENGINEER. INCLUDE VAPOR BARRIER PER SECTION IV, G, 3, a.

D. WINDOWS.
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE RESIDENTIAL CODES.
B. WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ. FT. WITH MIN. DIMENSION OF 24" IN HEIGHT AND 20" IN WIDTH. SILL HEIGHT NOT GREATER THAN 44" ABOVE FLOOR.
C. TYPICAL WINDOW HEAD HEIGHT.
7'-0" A.F.F. @ 8'-1 1/8" PLATE HEIGHT (U.N.O.)
8'-0" A.F.F. @ 9'-1 1/8" PLATE HEIGHT (U.N.O.)

E. ELECTRICAL.
ALL ELECTRICAL AND MECHANICAL EQUIPMENT & METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS. CONTRACTOR TO VERIFY.

F. HVAC.
PROVIDE BACK DRAFT DAMPERS @ DRYER VENT, HOOD VENT, & TOILET/EXHAUST FANS.

G. STAIR SIZING.
INSTALL PER LOCAL CODE.

H. DIMENSIONS ARE TO THE FACE OF STUD, U.N.O.

I. ALL EXTERIOR DIMENSIONS ARE TO FACE OF SHEETING UNLESS OTHERWISE NOTED.

J. ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED.

K. STAIR SIZING.
INSTALL PER LOCAL CODE.

ISSUE DATE: 05/05/2013
REVISIONS

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-322-2365 Phone

Meritage Homes

Meritage Homes

BSB DESIGN

www.bsbdesign.com
6808 Wilcrest Park W), Suite 240
West Des Moines, Iowa 50266
515-977-0550

JOB NO: 6012035 SPEC MGR: JT
DRAWN: EH JC CHECKED BY: JC

MAIN FLOOR PLAN - A

259-3475

A2.1A

Acknowledgement of Basis Submittal ONLY

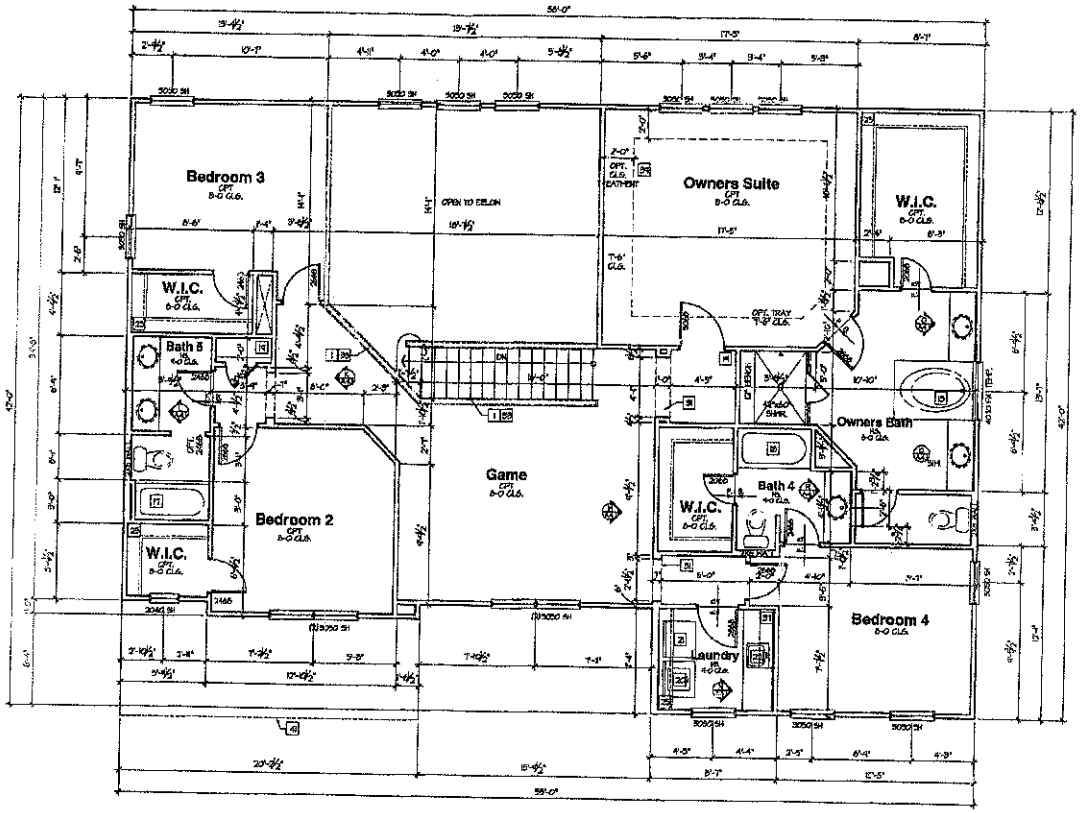
Date 8/30/13

Date

Acknowledgement of Plans Submittal ONLY

Date 4/30/13

Date



91 **Upper Floor Plan - A**

ALL EXTERIOR HOUSE WALLS MAY BE OPTIONAL 2X6 STUD WALLS - SEE STRUCTURAL PLANS FOR DETAILS.

SQUARE FOOTAGES "CLASSICAL" A	
MAIN FLOOR	1821
UPPER FLOOR	1641
SUBTOTAL	3462
GARAGE	544
PORCH	191
OPT HOBBY ROOM	0
OPT SCREENED PORCH	120
TOTAL	4383

FLOOR PLAN NOTES:

(ENTIRE FLOOR)

* THE FOLLOWING KEYNOTES REFERENCE THE SYMBOLS AS SHOWN ON PLANS:

1. IF RAILING / GUARDRAIL IS PROVIDED, ALL RAILING / GUARDRAIL BALUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALUSTERS. RAILING/HANDRAILS ARE TO BE AT A 34" MINIMUM TO 38" MAXIMUM HEIGHT A.F.F., WITH RETURNS PER LOCAL CODE. RAILING AT GUARDRAIL LOCATIONS TO BE AT 42" MINIMUM A.F.F. OPT. RAILING.
2. LINE OF OVERHEAD GARAGE DOOR IN OPEN POSITION.
3. SLOPE GARAGE FLOOR 1/8" PER FOOT TOWARD OVERHEAD GARAGE DOOR OPENING.
4. FIREPLACE, AS SPECIFIED BY BUILDER. INSTALL PER MANUFACTURERS SPECIFICATIONS. ALL FACTORY BUILT FIREPLACES SHALL COMPLY WITH LOCAL CODES.
5. SINK W/ GARBAGE DISPOSAL
6. DISHWASHER
7. RANGE
8. COOK TOP
9. OVEN
10. REFRIGERATOR SPACE.
11. PANTRY
12. PEDESTAL SINK
13. 42" X 42" SHOWER
14. 42" X 60" SHOWER
15. 42" X 60" TUB
16. 60" X 60" CORNER TUB
17. 36" X 60" THRESHOLD SHOWER
18. 32" X 60" THRESHOLD SHOWER
19. LINEN SHELVING PER BUILDER SPECS.)
20. PLUMBING SPACE
21. DRYER, VENT
22. OPTIONAL LAUNDRY SINK.
23. PROVIDE NON-COMBUSTIBLE PLATFORM, ELEVATED 18" ABOVE GARAGE FLOOR FOR WATER HEATER.
24. 5 SHELVES PER BUILDER SPECS.
25. ROD AND SHELF PER BUILDER SPECS.
26. ATTIC ACCESS 22"x30" MIN.
27. ATTIC ACCESS W/ STAIRS (22 1/2"x54" U.N.O.)
28. GYPSUM BOARD OPENING @ 8'-0" AT MAIN FLOOR & 7'-0" AT UPPER FLOOR U.N.O.
29. GYPSUM BOARD SOFFIT AROUND @ 7'-2" TO 8'-0".
30. GYPSUM BOARD LOW WALL, 36" A.F.F. (U.N.O.) W/ HDF C.T.P.
31. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR FINISH.
32. FLAT SHELF, SEE EXTERIOR ELEVATIONS.
33. HALF WALL W/ WOOD CAP OR OPTIONAL LOW WALL WITH RAILING ABOVE.
34. PORCH RAIL, SEE ELEVATION.
35. 36"x96" CONCRETE STOOP.
36. 6x8 BEAM.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
39. OPTIONAL COFFERED CEILING @ 8'-0" PER BUILDER SPEC.
40. LINE OF FRAMING ABOVE.
41. LINE OF FRAMING WALL BELOW.
42. 2x4 LOW WALL 42" A.F.F.
43. 2x6 LOW WALL 42" A.F.F.
44. ART NICHE
45. HORIZONTAL LAUNDRY GRATE
46. LOW WALL 42" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-6"
48. LOW WALL 32" A.F.F.

TYPICAL CONSTRUCTION ASSEMBLIES:

A. TYPICAL ROOF CONSTRUCTION.
ASPHALT ROOF SHINGLES.

B. TYPICAL FRAME FLOOR CONSTRUCTION.
FINISH FLOORING ON 3/4" TONGUE & GROOVE FLOOR SHEATHING ON FLOOR TRUSSES ON FLOOR JOISTS AS NOTED ON STRUCTURAL DRAWINGS.

C. SLAB ON GRADE FLOOR CONSTRUCTION.
4" CONCRETE SLAB, EXCEPT AS SPECIFIED BY SOIL REPORT, AND STRUCTURAL ENGINEER. INCLUDE VAPOR BARRIER PER SECTION IV, G, 5, a.

D. WINDOWS.
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE SEAL CHECKS.
B. WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ. FT. WITH MIN. DIMENSION OF 24" IN HEIGHT AND 20" IN WIDTH. SILL HEIGHT NOT GREATER THAN 44" ABOVE FLOOR.
C. TYPICAL WINDOW HEAD HEIGHT:
7'-0" A.F.F. @ 8'-1 1/8" PLATE HEIGHT (U.N.O.)
8'-0" A.F.F. @ 9'-1 1/8" PLATE HEIGHT (U.N.O.)

E. ELECTRICAL.
ALL ELECTRICAL AND MECHANICAL EQUIPMENT & METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS) CONTRACTOR TO VERIFY.

F. VENTS.
PROVIDE BACK DRAFT DAMPERS @ DRYER VENT, HOOD VENT, & EXHAUST FANS.

G. STONE VENEER.
INSTALL PER LOCAL CODE.

H. DIMENSIONS ARE TO THE FACE OF STUD, U.N.O.

I. ALL EXTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.

J. ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED.

K. BRICK VENEER.
INSTALL PER LOCAL CODE.

ISSUE DATE: 03/05/2013
REVISIONS

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-322-2285 Phone

Meritage Homes

Meritage Homes

BSB DESIGN
www.bsbdesign.com
5001 Westpark Parkway, Suite 210
West Des Moines, Iowa 50266
515.274.3020

JOB NO: 0911208S PROJ MGR: JE
DRAWN BY: JG CHECKED BY: KS

UPPER FLOOR PLAN - A

259-3475

A2.2A

Iredell County
Planning & Enforcement
349 N. Center St. PO Box 788
Statesville, NC 28687
704-878-3113

Zoning Permit

Permit Number: 152558ZO

Printed: 7/16/2013

Master #: 152558

Associated Permits:
152558ZO Zoning

Applicant

Name: Meritage Homes of North Carolina, Inc. **Phone:**
Address: 7761 Ballantyne Commons Pkwy ste 103
Charlotte, NC 28277

Parcel

Parcel Number: 4639835848.000 **Zoning:** RA
Address: 153 BELFRY LOOP **Township:** 1700
MOORESVILLE, NC 28117 **Area:** 0.82
Subdivision: Bells Crossing **Lot(s):** 91
Directions to Parcel: PERTH RD, RT ON BELLS CROSSING, LFT ON BELFRY, LOT ON LFT

Owners

Name: Meritage Homes of NC, INC **Phone:** 704-944-8900
Address: 7761 Ballantyne Commons Parkway Suite 1(**Fax:** 704-944-8910
Charlotte, NC 28277

Contractors

Contractor Type: Building
Name: Meritage Homes of North Carolina, Inc.
Address: 7761 Ballantyne Commons Pkwy ste 103
Charlotte, NC 28277

Fees and Receipts:

Number	Description	Amount
FEE-179282-07	Zoning - Permit / Inspection	$55.00
FEE-179283-07	Environmental Health - Type I or II Fast Track	$335.00
FEE-290785-07	Zoning - Permit Application	$75.00
FEE-290786-07	Technology Fee - Planning	$2.25

Sheet:
Property ID:
Lot #:
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address:
Proposed Facility:
Location of Site: Bells Crossing Subdivision, Lot 91
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Design Flow (.1949)

Applicant:
Date Evaluated:
Property Size:
Property Recorded:

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
Pit 32	R, 5%	AE, 0-8	Gr, SL	VFR, NS, NP	10 YR 4/4				
		Bt1, 8-12	SBK, SCL	FR, NS, NP	7.5 YR 5/6				
		Bt2, 12-22,	SBK, Clay	FI, SS, SP	7.5 YR 5/8	PS, Drip			PS, Drip, 0.1
		Bt3, 22-36+	Mass, Clay	VFI, S, VP	7.5 YR 5/8	UN			
					2.5 YR 5/8, 15%				
					7.5 YR 5/1, 15%				
Pit 33	R, 5%	AE, 0-6	Gr, SL	VFR, NS, NP	7.5 YR 5/6				
		Bt1, 6-24	ABK, Clay	FI, S, P	7.5 YR 5/4	PS, Drip			PS, Drip, 0.1
					2.5 YR 5/8, 15%				
		Bt2, 24+	Mass, Clay	VFI, S, VP	7.5 YR 5/4	UN			
					2.5 YR 5/8, 15%				
					7.5 YR 5/1, 15%				

Description	Initial System	Repair System
Available Space (.1945)	Off-site/Yes	Yes
System Type(s)	Accepted	Subsurface Drip
Site LTAR	.3	0.1

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

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

Sheet:
Property ID:
Lot #:
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address:
Proposed Facility:
Location of Site: Bells Crossing Subdivision, Lot 91 Septic Easement
Water Supply: [X] Public [ ] Individual [ ] Well
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Spring [ ] Other
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Cut [ ] Mixed

Applicant:
Date Evaluated:
Property Size:
Property Recorded:
Design Flow (.1949)

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
Pit #1	R, 3%	Bt1, 0-24	SBK, Clay	FI, SS, SP	2.5 YR 4/8	PS			PS, 0.3
		Bt2, 24-41	SBK, Clay	FI, SS, SP	2.5 YR 4/8				
					10 YR 6/8 20%				
		BC, 41-56	Wk SBK, CL	FI, SS, SP	2.5 YR 5/8	S			S, 0.3
					5 YR 4/8, 10%				
Pit #2	R, 3%	BC, 0-41	Wk SBK, SCL	FI, NS, NP	2.5 YR 4/8	PS			PS, 0.35
					10 % Mica				
		C, 41-60	SG, SL	VFR, NS, NP	5 YR 5/8	S			S, 0.4
					10% Mica				
Pit #3	R, 3%	BC, 0-24	Wk SBK, SCL	FI, SS, SP	2.5 YR 4/8	PS			PS, 0.35
					5 YR 5/8, 15%				
					10% Mica				
		C1, 24-35	SG, SL	VFR, NS, NP	5 YR 5/8	PS			PS, 0.4
					2.5 YR 4/8, 10%				
					10% Mica				
		C2, 35-53	SG, SL	VFR, NS, NP	5 YR 6/8	S			S, 0.4
					2.5 YR 4/8, 15%				

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Accepted or T&J
Site LTAR	0.3	0.3

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

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

Sheet:
Property ID:
Lot #:
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address:
Proposed Facility:
Location of Site: Bells Crossing Subdivision, Lot 91
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

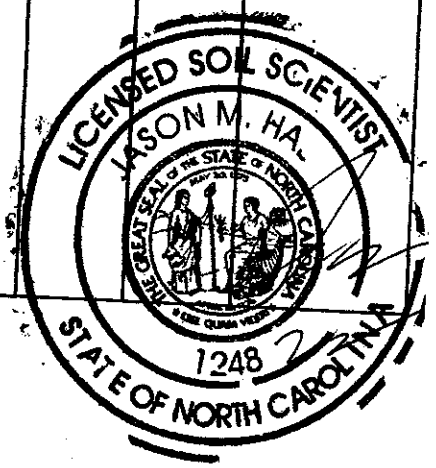
Design Flow (.1949)

Applicant:
Date Evaluated:
Property Size:
Property Recorded:

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
Pit 32	R, 5%	AE, 0-8	Gr, SL	VFR, NS, NP	10 YR 4/4				
		Bt1, 8-12	SBK, SCL	FR, NS, NP	7.5 YR 5/6				
		Bt2, 12-22,	SBK, Clay	FI, SS, SP	7.5 YR 5/8	PS, Drip			PS, Drip, 0.1
		Bt3, 22-36+	Mass, Clay	VFI, S, VP	7.5 YR 5/8	UN			
					2.5 YR 5/8, 15%				
					7.5 YR 5/1, 15%				
Pit 33	R, 5%	AE, 0-6	Gr, SL	VFR, NS, NP	7.5 YR 5/6				
		Bt1, 6-24	ABK, Clay	FI, S, P	7.5 YR 5/4	PS, Drip			PS, Drip, 0.1
					2.5 YR 5/8, 15%				
		Bt2, 24+	Mass, Clay	VFI, S, VP	7.5 YR 5/4	UN			
					2.5 YR 5/8, 15%				
					7.5 YR 5/1, 15%				

Description	Initial System	Repair System
vailable Space (.1945)	Off-site/Yes	Yes
ystem Type(s)	Accepted	Subsurface Drip
te LTAR	.3	0.1

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



Sheet:
Property ID:
Lot #:
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address:
Proposed Facility:
Location of Site: Bells Crossing Subdivision, Lot 91 Septic Easement
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant:
Date Evaluated:
Property Size:
Property Recorded:
Design Flow (.1949)

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
Pit #1	R, 3%	Bt1, 0-24	SBK, Clay	FI, SS, SP	2.5 YR 4/8	PS			PS, 0.3
		Bt2, 24-41	SBK, Clay	FI, SS, SP	2.5 YR 4/8				
					10 YR 6/8 20%				
		BC, 41-56	Wk SBK, CL	FI, SS, SP	2.5 YR 5/8	S			S, 0.3
					5 YR 4/8, 10%				
Pit #2	R, 3%	BC, 0-41	Wk SBK, SCL	FI, NS, NP	2.5 YR 4/8	PS			PS, 0.35
					10 % Mica				
		C, 41-60	SG, SL	VFR, NS, NP	5 YR 5/8	S			S, 0.4
					10% Mica				
Pit #3	R, 3%	BC, 0-24	Wk SBK, SCL	FI, SS, SP	2.5 YR 4/8	PS			PS, 0.35
					5 YR 5/8, 15%				
					10% Mica				
		C1, 24-35	SG, SL	VFR, NS, NP	5 YR 5/8	PS			PS, 0.4
					2.5 YR 4/8, 10%				
					10% Mica				
		C2, 35-53	SG, SL	VFR, NS, NP	5 YR 6/8	S			S, 0.4
					2.5 YR 4/8, 15%				

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Accepted or T&J
Site LTAR	0.3	0.3

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

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

IREDELL COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
Application for IMPROVEMENT PERMIT , AUTHORIZATION TO CONSTRUCT, or EXISTING SYSTEM INSPECTION

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ☒ Improvement Permit ☐ Authorization To Construct ☐ BOTH ☐ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application

The following optional attachments may also be submitted: *Place check ( ) beside whichever is submitted if applicable*

☑ Survey Plat, Scaled no more than 1 Inch = 60 Feet
☐ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Meritage Homes of the Carolinas, Inc	7761 Ballantyne Commons Pkwy Ste. 103 Charlotte, NC 28277		704-351-5405
Applicant Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**
Meritage Homes of the Carolinas, Inc	same		
Owner Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**

4. Property Information:

153 Belfry Loop — **Street Address**
Bells Crossing — **Subdivision Name**
91 — **Section/Phase and Lot Number**

Driving Directions: 150 W - Right on Perth Road - Left into Bells Crossing

lot xxx on left after club house

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

☑ New, Single Family Residence
( ) New, Multi-Family Residence
☐ Expansion of Existing Septic System
( ) Repair To Failing Septic System
( ) Other

Maximum Number of Bedrooms 4
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

☒ Crawl Space Foundation?
☐ Concrete Slab Foundation?
☐ Basement w/Plumbing?
☐ Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

6. Proposed Water Supply:

( ) New Well ( ) Existing Well ☑ Community Well ( ) City Water ( ) Other Public Water

7. Desired Septic System Type: *(You may rank in order of preference, if any)*

☐ Alternative ☑ Conventional ☐ Innovative ( ) Modified Conventional ( ) Other ___ ( ) No Preference

8. Please Answer The Following To The Best of Your Ability:

( ) Yes ☑ No Does the site contain any jurisdictional wetlands?
( ) Yes ☑ No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes ☑ No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: Matt Reams
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

7/11/2013
DATE

IREDELL COUNTY HEATLH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- X — Property Line measurements are clearly identified...
- X — All proposed structures are indicated...
  SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
- X — Front and side setbacks from property line...
- X — Preferred driveway location and configuration, preferred well location...
- X — Area you prefer your septic system to be placed...
- X — North arrow, or other sufficient indicator of direction...

Circle N/A on the following if appropriate:

- X — Location of septic systems and wells within 100' of your property... N/A
- X — Location of easements and rights of ways on your property... N/A
- X — Location of any designated wetlands on the property... N/A

Signature: Matt Reamer

REQUIRED property owner or owner's legal representative signature.

7/11/2013
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

Bells Crossing S/D Lot 91
Layout/Design Specifications

Facility Type:	Single Family Home
# of Bedrooms:	4
Daily Flow:	480 **gal/day**
L.T.A.R.:	0.30 **gal/day/sq.ft**
Trench Depth:	24 **in**
Trench Width:	36 **in**
Stone Depth:	chamber **in**
Manifold Length:	60 **in**
Manifold Diameter:	4 **in sch 80pvc**
Supply Line Length:	494 **ft**
Supply Line Diameter:	2 **in sch 40pvc**
Supply Line Volume:	85.96 **gallons**
Friction Loss + Fitting Loss:	25.83 **ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2 **ft**
Elevation Head:	28.40 **ft**
Total Head:	56.23 **ft**
Dose Volume:	200.12 **gals**
% of Pipe Vol.	.75
Drawdown:	9.31 **in @ 21.5 gal/in**
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)
Pump:	Zoeller 188 Flow-Mate (or approved equivalent)
Septic Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)
Septic Tank:	1000 **gallon**
Pump Tank:	1000 **gallon**

Bells Crossing S/D Lot 91

Contact Information

Client: Meritage Homes
Attn: Steven Liebentritt
Street Address: 7761 Ballantyne Commons Pkwy
Suite 103
Charlotte, NC 28277
Phone: (704) 944-8903
Fax: (704) 944-8910

Designer: Bateman Civil Survey Company, PC
Attn: Matt Burdette
Street Address: 200 North Main Street
Holly Springs, NC 27540
Phone: 919-577-1080
Fax: 919-577-1081

11" SAP

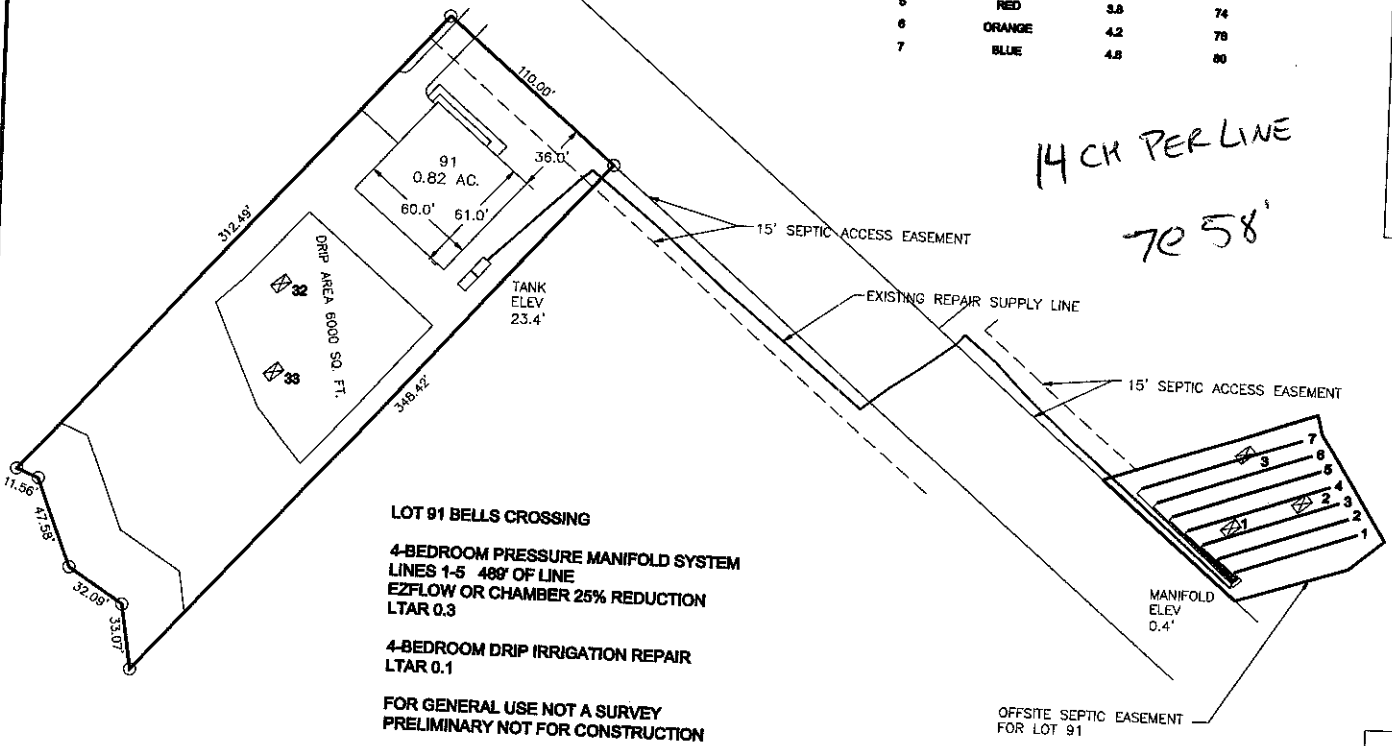
Need Pit

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	YELLOW	1.4	62
2	BLUE	1.7	66
3	ORANGE	2.6	68
4	PINK	3.1	71
5	RED	3.8	74
6	ORANGE	4.2	78
7	BLUE	4.8	80

14 CH PER LINE

70 58'



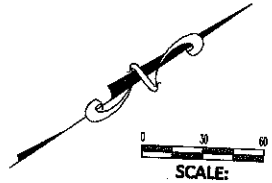
LOT 91 BELLS CROSSING

4-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 1-5 489' OF LINE
EZFLOW OR CHAMBER 25% REDUCTION
LTAR 0.3

4-BEDROOM DRIP IRRIGATION REPAIR
LTAR 0.1

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

NOTE:
SOIL EVALUATIONS WERE CONDUCTED BY JASON HALL WITH CENTRAL CAROLINA SOIL CONSULTING PLLC
329 S. WHITE STREET
WAKE FOREST, NC 27588



SCALE:
1" = 60 ft.

Bateman Civil Survey Company
Engineers • Surveyors • Planners
200 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-2576



VICINITY MAP
(Not to Scale)

SEPTIC SYSTEM LAYOUT - LOT 91

FOR

MeritageHomes

BELLS CROSSING PHASE ONE LOT 91
MOORESVILLE, IREDELL COUNTY

DATE: 05/30/13 DRAWN BY: TMB CHECKED BY: TMB

SCALE: 1" = 60 ft

Bells Crossing S/D Lot 91
SYSTEM TAP CHART

Bench Mark:	0	= 100.00	
Pump tank elevation:	76.60		
Manifold elev:	99.30		
Pump elev:	71.20		

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Yellow	1.40	98.60	50	1/2in SCH 80	5.48	54.64	150	0.36
2	Blue	1.70	98.30	60	1/2in SCH 40	7.11	70.89	180	0.39
3	Orange	2.50	97.50	60	1/2in SCH 40	7.11	70.89	180	0.39
4	Pink	3.10	96.90	60	1/2in SCH 40	7.11	70.89	180	0.39
5	Red	3.80	96.20	60	1/2in SCH 40	7.11	70.89	180	0.39
6	Orange	4.20	95.80	60	1/2in SCH 40	7.11	70.89	180	0.39
7	Blue	4.80	95.20	60	1/2in SCH 40	7.11	70.89	180	0.39
	P-TANK	23.40	76.60						
		total	**feet =**	**410**	**gal/min =**	**48.14**		**LTAR =**	**0.300**
				Des. Flow	480			**(ltar + 5%)**	0.32
								(ltar W/ INOV)	0.40
								(ltar + 5%)	0.42

Comments: