IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 212208

SEPTIC IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4639823532

APPLICANT/OWNER: BCSC / Meritage Homes APPLICANT ADDRESS: 2524 Reliance Ave Apex, NC 27539

SITE ADDRESS: 151 Campanile Drive Mooresville, NC PHONE: 7046588616 ALT. PHONE

SITE DIRECTIONS: Hwy 150 W TR Perth Rd TL Bells Crossing Dr TL S. San Augustin TL Campanile SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Bells Crossing SECTION: 4 LOT # 180+185 LOT AREA: .65+.64 DESIGN FLOW: 600gpd L.T.A.R.: .3

Septic Tank	1250 (gal)	STB	338	Date	7-31-17	☒ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms 5	Water Supply
Pump Tank	250 (gal)	PT	477	Date	7-30-17	System Description:	Pump-PM 25% Reduction			☐ Business	No. Persons 10	☐ Private
Pump Make	Zoeller	Model		Serial #		Repair System Description:	LP PPBPS			☐ Other	No. Employees	☐ Public
# Nitrification Fields	1	# Lines	5	Linear Ft	500'	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☐ Crawl Space	☒ Community
Trench Width	36"	Trench Bottom Depth(Low side)		31"	Gravel Depth N/A		☐ GRAVITY	☒ PRESSURE		☒ Basement w/plumbing		☐ Basement w/o plumbing

Comments / Conditions: * Drainfield is OFFsite

*Recommend pumping septic tank every 3-5 years. *

This permit replaces previous permit dated 4-25-16, issued 8/8/16!
9/5/17 Checked tanks & 4 upper lines

INITIAL SITE SKETCH

See attached Site plan & drawing dated 5/3/17 by Bateman Civil Survey Company (Approved 5/23/17 & 8/16/17)

AS BUILT SKETCH

CHECKED LAST LINE 9-8-17 JA

* Off site septic on lot 185
PIN# 4639-82-5500

	Date	Initials
Drain Lines Checked 4 of 5 lines	9/5/17	MD
Tanks Checked	9/5/17	MD
Pressure Manifold or Valve Box Checked	10/9/17	BB
Pressure Head Set	10/9/17	BB
Electrical Checked	11/7/17	MD
Floats Set	10/9/17	BB
Alarm Checked	10/9/17	BB
Maintenance Contract Y (N)	Not required	
Comments:		

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: [signature] Date: 8-17-17 Installed by: BCSC (Andrew Carson)

IMPROVEMENT PERMIT by: Maura Dotson Date: 8/16/17 OPERATION PERMIT by: Maura Dotson Date: 11/7/17

AUTHORIZATION TO CONSTRUCT by: Maura Dotson Date: 8/16/17 Existing System Inspected by: Date:

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)	DESIGN LENGTH
1	BLUE	1.9	48	48
2	ORANGE	2.9	80	80
3	RED	4.1	114	100
4	GREEN	5.7	133	100
5	PINK	7.5	133	100
6	YELLOW	9.2	130	100
7	BLUE	11	118	100
8	ORANGE	12.4	107	107
9	RED	14	100	100
			963	835

LOT 180 BELLS CROSSING SUBDIVISION

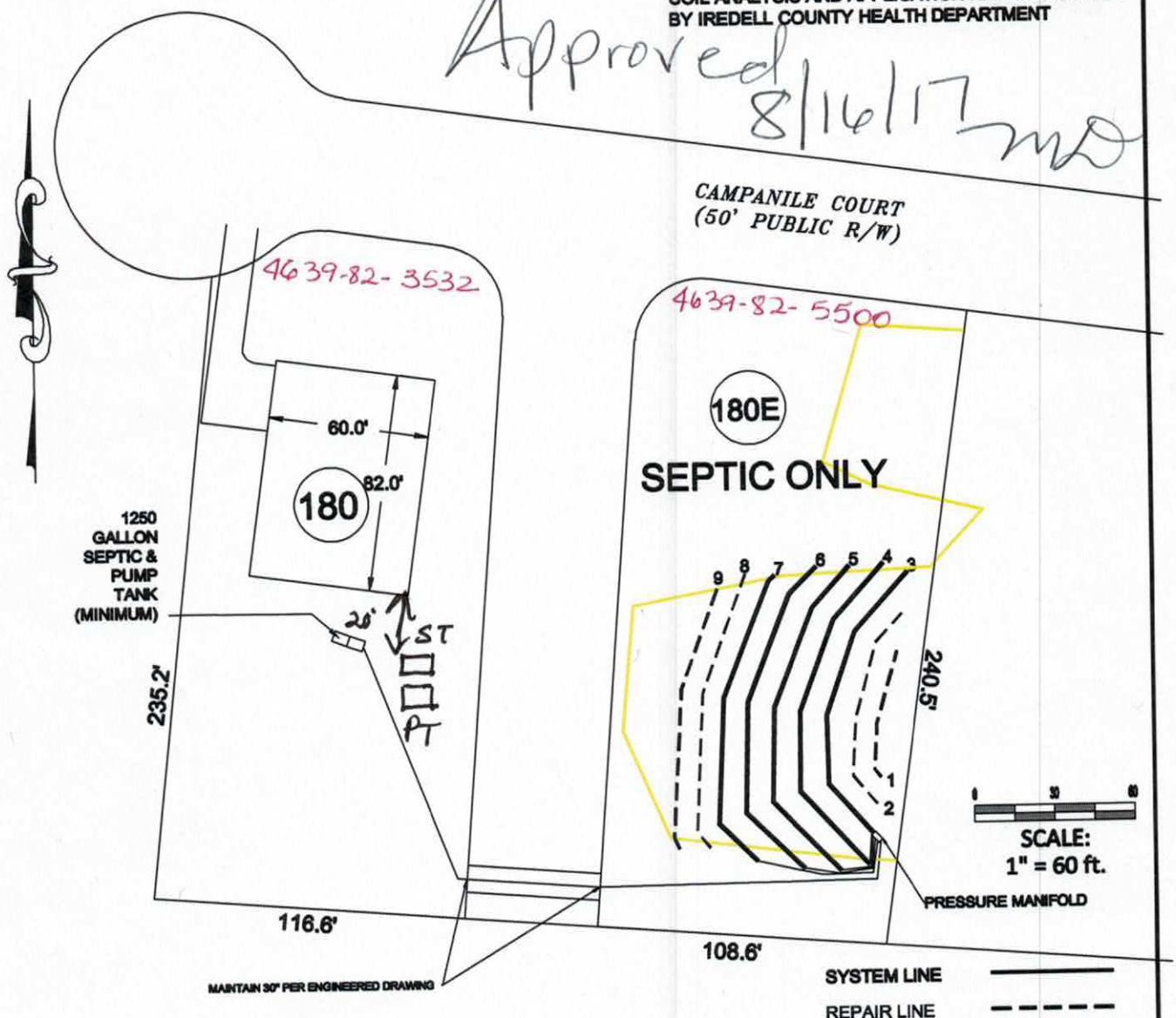
5-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 3-7 TOTAL 500 LINEAR FEET(USE 500')
EZFLOW OR CHAMBER
31" MAX TRENCH DEPTH
LTAR 0.3
25% REDUCTION

5-BEDROOM ACCEPTED REPAIR
LINES 1-2 8-9 TOTAL 335 LINEAR FEET
LTAR 0.3
50% REDUCTION 2' PANELS

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

SOIL ANALYSIS AND APPLICATION RATES PROVIDED BY IREDELL COUNTY HEALTH DEPARTMENT

Approved 8/16/17 MD



Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Ave, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2576

MeritageHomes

LOT 180
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY

DATE:5/03/17 DRAWN BY: MDB CHECKED BY: MDB

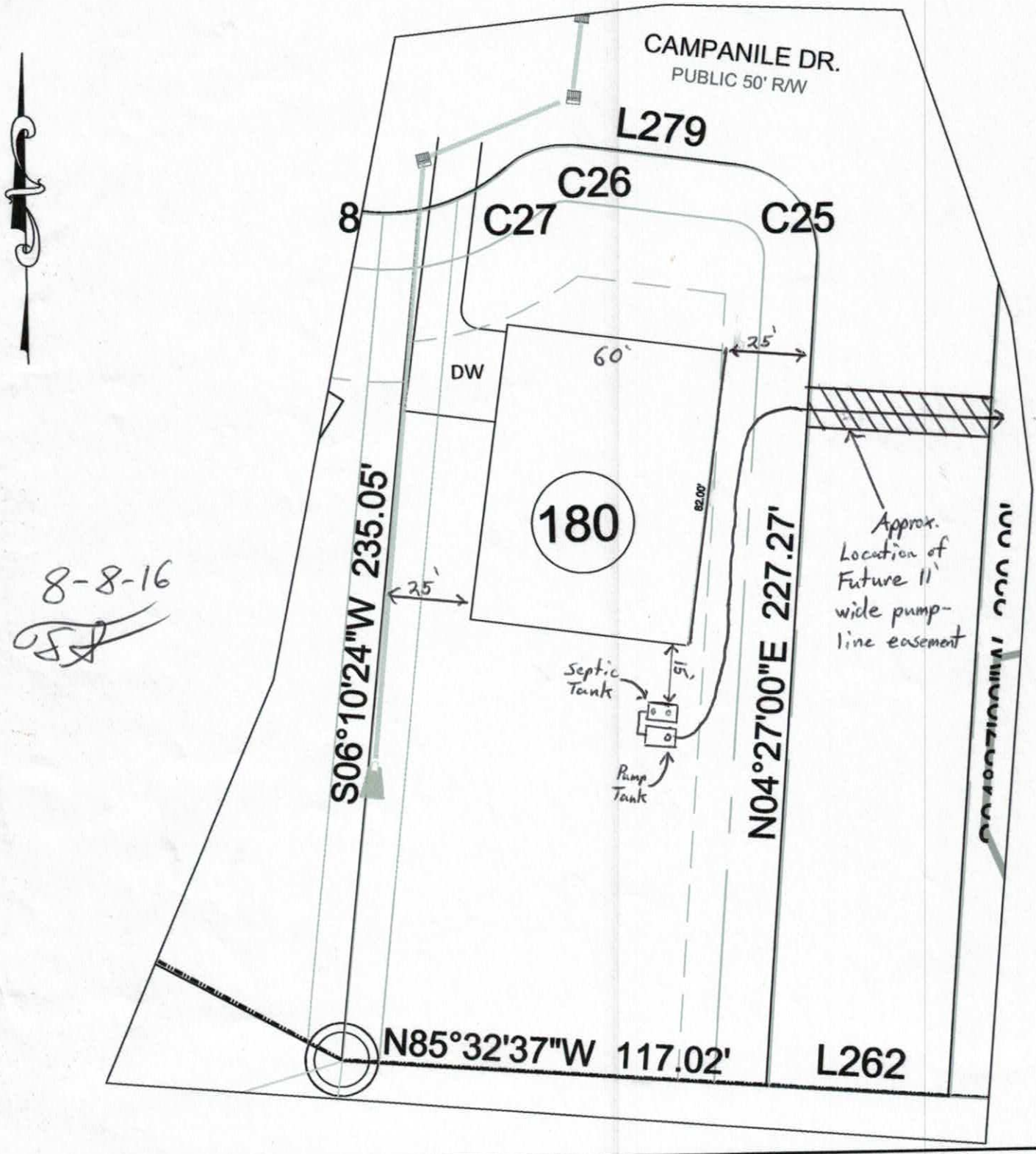
LEGEND

PO = PORCH
SP = SCREENED PORCH
CP = COVERED PORCH
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY

0 20 40

SCALE:
1" = 40 ft.

BELLS CROSSING SUBDIVISION PHASE 4
HOUSES AND SEPTIC LINES ARE STAKED IN THE FIELD
THESE SEPTIC LAYOUTS ARE PRELIMINARY AND SUBJECT TO CHANGE PENDING APPROVAL BY THE IREDELL COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.
FOR GENERAL USE NOT A SURVEY PRELIMINARY NOT FOR CONSTRUCTION
SOIL PROFILES AND ANALYSIS PROVIDED BY CENTRAL CAROLINA SOIL CONSULTING PLLC



8-8-16

Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378

SEPTIC SITE PLAN LOT 180
BELLS CROSSING SUBDIVISION

IREDELL COUNTY , NORTH CAROLINA
DATE: 04/25/16 DRAWN BY: SPC CHECKED BY: SPC

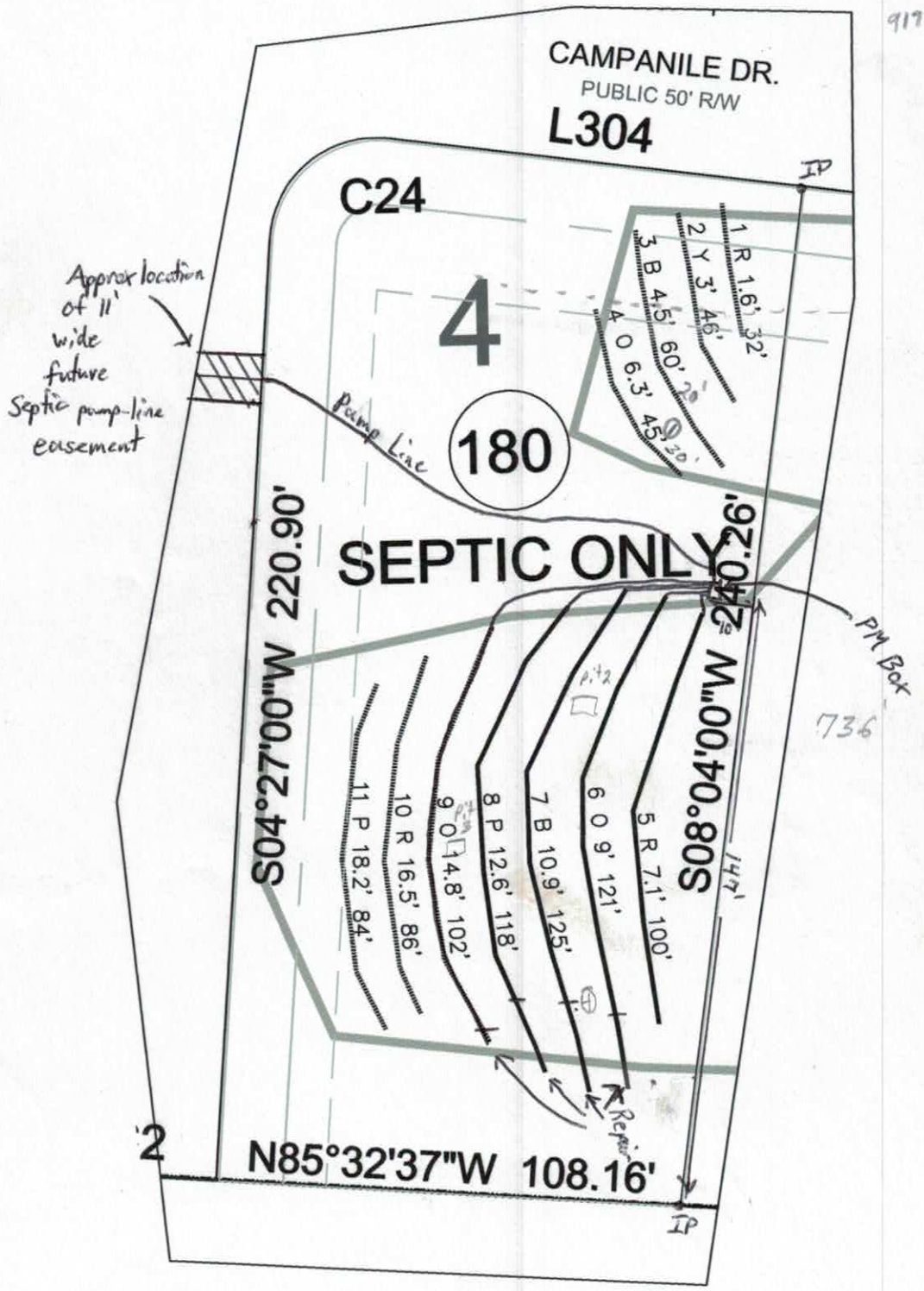
LEGEND

PO = PORCH
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0 20 40

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BELLS CROSSING SUBDIVISION PHASE 4
HOUSES AND SEPTIC LINES ARE STAKED IN THE FIELD
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NCBELS Firm No. C-2378

SEPTIC SITE PLAN LOT 180
BELLS CROSSING SUBDIVISION

IREDELL COUNTY , NORTH CAROLINA
DATE: 04/25/16 DRAWN BY: SPC CHECKED BY: SPC

Pressure Manifold
Septic System Design

for

Bells Crossing PH 4 S/D Lot 180
Raleigh, North Carolina

Designed by:

Michael Benfield
Bateman Civil Survey Company, PC
Apex, North Carolina
BCSC Project #: 120314.168

05/3/2017

Bells Crossing PH 4 S/D Lot 180

Table of Contents

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Specifications (system) ---------- 2
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Site Plan (System) ---------- 4
Control Panel Specifications ---------- 5
Pump Specifications ---------- 7
Effuent Filter Specifications ---------- 9
Supply Line Hydraulic Profile ---------- 11

Attachments

Septic and Pumptank Details — Figure 1
Pressure Mainfold and Trench Details — Figure 2

Bells Crossing PH 4 S/D Lot 180

Contact Information

Client: Meritage Homes
Attn: Robert Price
Street Address: 11605 North Community House Road
Charlotte, NC 28277
Phone: (704) 944-8939
Fax: na

Designer: Bateman Civil Survey Company, PC
Attn: Michael Benfield
Street Address: 2524 Reliance Ave.
Apex, North Carolina 27539
Phone: 704-658-8616
Fax: 919-577-1081

Bells Crossing PH 4 S/D Lot 180

Layout/Design Specifications

Approved
MD
5/23/17

Facility Type:	Single Family Home	
# of Bedrooms:	5	
Daily Flow:	600	**gal/day**
L.T.A.R.:	0.300	**gal/day/sq.ft**
Trench Depth:	30	**in**
Trench Width:	36	**in**
Stone Depth:	accepted	**in**
Manifold Length:	42	**in**
Manifold Diameter:	4	**in sch 80pvc**
Supply Line Length:	215	**ft**
Supply Line Diameter:	3	**in sch 40pvc**
Supply Line Volume:	73.75	**gallons**
Friction Loss + Fitting Loss:	0.48	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	1.10	**ft**
Total Head:	3.58	**ft**
Dose Volume:	260.32	**gals**
% of Pipe Vol.	.80	
Drawdown:	12.91	**in @ 20.16 gal/in**
Pump Run Time:	11.88	**Minutes**
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)	
Pump:	Zoeller5032-0008 High Flow (or approved equivalent)	
Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)	
Septic Tank:	1250	**gallon Shoaf**
Pump Tank:	1250	**gallon Shoaf**

Bells Crossing PH 4 S/D Lot 180
SYSTEM TAP CHART

Approved
5/23/17
MD

Bench Mark:	0	= 100.00	**Manifold elev:**	96.90	
Pump tank elevation:	79.00		**Pump elev:**	73.60	

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
3	Red	4.10	95.90	100	1/2in SCH 80	5.48	96.00	300	0.3200
4	Green	5.70	94.30	100	1/2in SCH 80	5.48	96.00	300	0.3200
5	Pink	7.50	92.50	100	1/2in SCH 80	5.48	96.00	300	0.3200
6	Yellow	9.20	90.80	100	1/2in SCH 80	5.48	96.00	300	0.3200
7	Blue	11.00	89.00	100	1/2in SCH 80	5.48	96.00	300	0.3200
	P-TANK	21.00	79.00						
		total	**feet =**	**500**	**gal/min =**	**27.4**		**LTAR =**	**0.300**

Des. Flow	~~480~~ 600	**(ltar + 5%)**	0.32
24 Hour Pump Run=	17.52	**(ltar W/ INOV)**	0.40
		(ltar + 5%)	0.42

Comments:

Public Health
HEALTH AND HUMAN SERVICES

RICHARD O. BRAJER
Secretary

DANIEL STALEY
Director, Division of Public Health

September 14, 2016

Mr. Thomas Shuck
Iredell County Health Department
610 East Center St
Mooresville, NC 28115

Subject: Approval of Supply Line Designs for Bells Crossing Lot 180
Iredell County, NC

Dear Mr. Shuck:

We have reviewed revised plans and specifications for the supply lines serving Bells Crossing Lot 180 received from Brian Kraynak, PE, Bateman Civil Survey Company, PA.

The revised supply line design is approved for the above listed lot.

A registered professional engineer must certify that the systems have been installed in accordance with the approved plans and specifications. This certification is based upon periodic observations of construction and a final inspection for design compliance by the certifying engineer or his representative. Record drawings must be provided by the engineer unless the installation is completed without alteration to the approved plans. The installation must be approved by the health department prior to the issuance of an operation permit.

Please contact us if you have any questions pertaining to this letter or if we may be of further assistance with this project. I can be contacted at 919-707-5878 or by email at trish.angoli@dhhs.nc.gov.

Sincerely,

Tricia Angoli, PE
On-Site Wastewater Engineering

cc: Brian Kraynak, PE, Bateman Civil Survey Company, PA

Pressure Manifold
Septic System Design

for

Bells Crossing PH 4 S/D Lot 180
Mooresville, North Carolina

Designed by:

Matt Burdette
Central Carolina Soil Consulting, PLLC
Wake Forest, North Carolina

Engineer:

Brian Kraynak, PE
Bateman Civil Survey Company, PA
Apex, North Carolina
BCSC Project #: 120314.180



08/22/2016

8-22-2016

Bells Crossing PH 4 S/D Lot 180

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Contact Information ---------- 1
Specifications (system) ---------- 2
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Site Plan (System) ---------- 10
Supply Line Hydraulic Profile ---------- 11
Septic and Pumptank Details ---------- 12
Pressure Mainfold and Trench Details ---------- 13

Bells Crossing PH 4 S/D Lot 180

Contact Information

Client:	Meritage Homes
Attn:	Robert Price
Street Address:	11605 North Community House Road Charlotte, NC 28277
Phone:	(704) 944-8939
Fax:	na

Engineer:	Bateman Civil Survey Company, PC
Attn:	Brain Kraynak, PE
Street Address:	2524 Reliance Ave. Apex, North Carolina 27539
Phone:	919-577-1080
Fax:	919-577-1081

Designer:	Central Carolina Soil Consulting, PLLC
Attn:	Matt Burdette
Street Address:	1900 South Main Street Wake Forest, North Carolina 27587
Phone:	919-569-6704
Fax:	919-569-6703

Bells Crossing PH 4 S/D Lot 180

Layout/Design Specifications

Facility Type:	Single Family Home	
# of Bedrooms:	5	
Daily Flow:	600	gal/day
L.T.A.R.:	0.300	gal/day/sq.ft
Trench Depth:	24-30	in
Trench Width:	36	in
Stone Depth:	accepted	in
Manifold Length:	48	in
Manifold Diameter:	4	in sch 80pvc
Supply Line Length:	280	ft
Supply Line Diameter:	2	in sch 40pvc
Supply Line Volume:	48.72	gallons
Friction Loss + Fitting Loss:	5.29	ft(supply line length +25% for fittings)
Design Head:	2	ft
Elevation Head:	30.40	ft
Total Head:	37.69	ft
Dose Volume:	244.05	gals
% of Pipe Vol.	.75	
Drawdown:	11.19	in @ 21.8 gal/in
Pump Run Time:	8.91	Minutes
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)	
Pump:	Zoeller 140 Flow Mate (or approved equivalent)	
Septic Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)	
Septic Tank:	1250 gallon Shoaf	
Pump Tank:	1250 gallon Shoaf	

Bells Crossing PH 4 S/D Lot 180

SYSTEM TAP CHART

	Bench Mark:	0	= 100.00		Manifold elev:	866.00			
	Pump tank elevation:	841.00			Pump elev:	835.60			
line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Red	7.10	865.00	100	1/2in SCH 80	5.48	120.00	300	0.4000
6	Orange	9.00	863.10	100	1/2in SCH 80	5.48	120.00	300	0.4000
7	Blue	10.90	861.20	100	1/2in SCH 80	5.48	120.00	300	0.4000
8	Pink	12.60	859.50	100	1/2in SCH 80	5.48	120.00	300	0.4000
9	Orange	14.80	857.30	100	1/2in SCH 80	5.48	120.00	300	0.4000
	P-TANK		841.00						
		total	feet =	500	gal/min =	27.4		LTAR =	0.300
				Des. Flow	600			(ltar + 5%)	0.32
				24 Hour Pump Run=	21.90			(ltar W/ INOV)	0.40
								(ltar + 5%)	0.42

Comments:

DHHS

ON-SITE WASTEWATER SECTION

Sheet ___ of ___

PROPERTY ID #: ___

COUNTY: ___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Caryville

OWNER: BCSC — APPLICATION DATE ___

ADDRESS: Retired Apex, NC — DATE EVALUATED: 7-20-16

PROPOSED FACILITY: 5 BR House — PROPOSED DESIGN FLOW (.1949): 600 GPD — PROPERTY SIZE: ___

LOCATION OF SITE: 180-5 offsite Bells Crossing — PROPERTY RECORDED: Yes

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___

EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	HS	0-7	Leaf Litter + mixed Loam w. SBK	Granular Loose SS,Sp,Sexp	—	60	—	—	0.30 PS
2nd Top	12%	7-39	R. Clay m. ABK	Sl. Firm SS,Sp,Sexp					
		39-60	R. Clay Loam w. SBK	Sl. Friable SS,Sp,Sexp					
3	HS	0-10	Br. Loam + LL w. SBK	Granular Loose, SS,Sp,Sexp	—	58	—	—	0.325 PS
Bottom	13%	10-41	R. Clay m→strong SBK	Firm, SS,Sp,Sexp					
		41-58	R. Clay Loam w. SBK	Very Friable SS, Sp, Sexp					
2	HS	0-8	Br. Loam w. SBK	Granular Loose, SS,Sp,Sexp	—	60	—	—	0.35 PS
	13%	8-27	R. Clay w. SBK	Sl. Firm, SS,Sp,Sexp					
		27-60	R. Clay Loam w. SBK	Very Friable, SS,Sp,Sexp					
			Some ↑ Saprolite (well drained) 50"→60"						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		360
System Type(s)	25% Reduction	50% reduction
Site LTAR		

OTHER FACTORS (.1946): ___

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: Tom Shuck

OTHER(S) PRESENT: ___

COMMENTS: Offsite septic (across street) Requires easement.

DHHS

ON-SITE WASTEWATER SECTION

Sheet ____ of ____
PROPERTY ID #: ____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: BCSC APPLICATION DATE 4/29/16
ADDRESS: DATE EVALUATED: 6/10/16
PROPOSED FACILITY: 5 BR House PROPOSED DESIGN FLOW (.1949): 600 gpd PROPERTY SIZE:
LOCATION OF SITE: 151 Campanile Dr Lot 180-5 PROPERTY RECORDED: Yes
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1 AB	Front Repair	0-7	Br SCL W. SBK	Sl. Friable, SS, SP, Soap	—	48	—	—	0.325 PS
		7-24	R Clay W. SBK	Sl Firm, SS, SP, Soap					
		24-	R CL W. SBK	Friable, SS, SP, Soap					
				rare mica 30"→48" trace Saprolite					
2 ABs	12"-Qtz 16"-Qtz P.T Needed	0-7	Br SCL W. SBK						
		7-16"	R. Clay W. SBK	Sl Firm, SS, SP, Soap					
3	Qtz refusal @ surface P.4 Below @ Red Line								
4 AD		0-3	Br. SCL W. SBK	Friable, SS, SP, Soap		48			0.30 PS
		3-24	R. Clay W. SBK	Sl Firm, SS, SP, Soap					
		29-48	R Mod. CL SBK	Sl. Friable, SS, SP, Soap					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY:
OTHER(S) PRESENT:

COMMENTS:

RECEIVED MAY 15 2017

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

(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)

Paid $320.00

1. APPLICATION FOR: /Improvement Permit ___Authorization To Construct ___ Existing System Inspection

****

#212208

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

The following optional attachments may also be submitted: ✓ Survey Plat, Scaled no more than 1 Inch = 60 Feet

Place check ( ) beside whichever is submitted if applicable / Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

BCSC	2524 Reliance Ave Apex NC		7046588616
Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Mortage Holder			
Owner Name	Mailing Address	Home Phone #	Alternate Phone #

4. Property Information:

151 Campanile Drive	Bells Crossing	4 180
Street Address	Subdivision Name	Section/Phase and Lot Number

Driving Directions: 150 W, R onto Perth, L into Bells Crossing, L onto St. Agustine, L onto Campanile Ct

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

(✓) New, Single Family Residence — Maximum Number of Bedrooms 5 — ( ) Crawl Space Foundation?

( ) New, Multi-Family Residence — Maximum Number of Occupants 10 — ( ) Concrete Slab Foundation?

( ) Expansion of Existing Septic System — If Expansion, Current Number of Bedrooms ___ — (✓) Basement w/Plumbing?

Repair To Failing Septic System due to _____ — ( ) Basement w/out Plumbing?

( ) Other _____

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)* ( ) EXISTING SYSTEM installed _____ *Year*

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (/) Other _____

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: _____ 5-3-17

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — DATE

RECEIVED APR 6 - 2017

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: ☑ Survey Plat, Scaled no more than 1 Inch = 60 Feet
Place check ( ) beside whichever is submitted if applicable ☑ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Meritage Homes of the Carolinas, Inc	13925 Ballantyne Corp. Place #300	704.944.8918	

Owner Name	Mailing Address	Home Phone #	Alternate Phone #
Meritage Homes of the Carolinas, Inc	same		

4. Property Information:

Street Address	Subdivision Name	Section/Phase and Lot Number
151 Campanile Ct.	Bells Crossing	Lot 180

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

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 5
Maximum Number of Occupants 10
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_Excepted__ ( ) 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: _____ Robert Ruthenberg _____ 3/28/17
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

AUTHORIZATION TO ACT AS AGENT FOR OWNER

Any application/document/permit requiring a signature must be signed by the property owner or their authorized agent. This form shall be provided by the owner to allow specified individuals to act as agents for the owner. This form allows the specified individuals to sign or receive any application/document/permit on behalf of the owner. This form allows the authorized agent to make decisions on behalf of the owner pertaining to modifications of permits in the field. It is the responsibility of the owner to assure that any/all permit conditions specified on permits issued by this Division are followed.

I, Robert Price (Meritage Homes), am the legal owner of the property located at Bells Crossing, identified as PIN(Parcel Identification Number) Lot 189, located in Iredell County, North Carolina.

I do hereby authorize (print authorized agent/company name) Bateman Civil Survey Company, Michael Benfield, Matt Burdette, _____, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

1. Improvement Permit (IP)/ Authorization to Construct (AC).
2. Application for soil-site evaluation (new/repair).
3. Application/permit for water well/well abandonment.
4. Application for existing system.
5. Application for Improvement Permit (IP)/ Authorization to Construct (AC).

I agree to abide by any and all decisions and/or conditions between the agent acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division. This form must be fully executed before the individual's specified above will be recognized as the authorized agent.

Signature of Owner — Date: 3/10/15

Signature of Witness — Date: 3/10/15

IREDELL COUNTY HEALTH DEPARTMENT

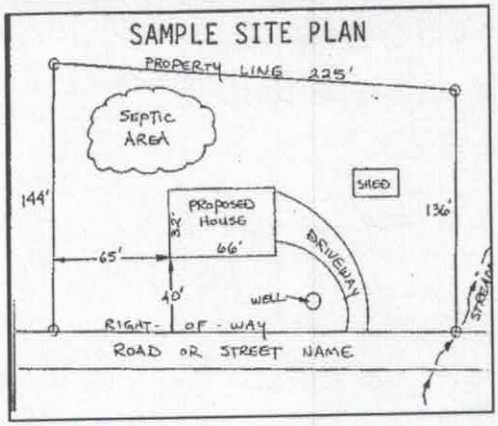
ENVIRONMENTAL HEALTH DIVISION

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:

( ) **Property Line measurements are clearly identified**
( ) **All proposed structures are indicated**
( ) **Front and side setbacks from property line**
( ) **Preferred driveway location and well location**
( ) **Area you prefer your septic system to be placed**
( ) **North arrow, or other sufficient indicator of direction**



Circle N/A on the following if appropriate:

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

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

Signature: _____ 5-3-17

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **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:

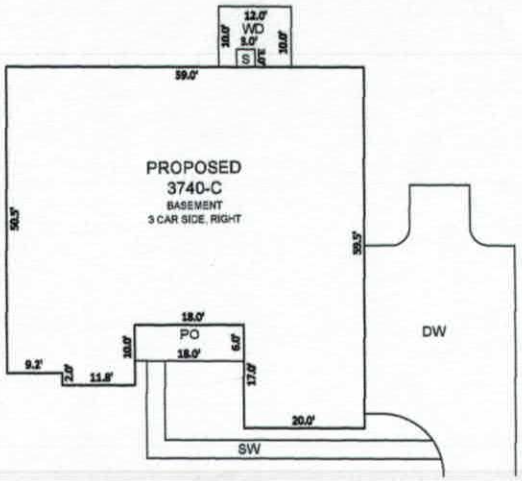
- x — **Location of septic systems and wells within 100' of your property...** **N/A**
- x — **Location of easements and rights of ways on your property...** **N/A**
- x — **Location of any designated wetlands on the property...** **N/A**

Signature: Rob Ketchey
***REQUIRED* property owner or owner's legal representative signature.**

3/28/17
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

Please See Attached Plot Plan and IP Documents Attached



INSET SCALE: 1"=20'

NOTE:

ALL DIMENSIONS, LOCATIONS AND FEATURES SHOWN ON THIS PLOT PLAN ARE APPROXIMATE AND ARE ONLY AN ARTISTS RENDITION. EXACT LOCATION OF ALL FEATURES ARE SUBJECT TO CHANGE AND MAY NOT BE INSTALLED EXACTLY AS SHOWN ON PLANS AND/OR IN MODELS. PLACEMENT OF HOME, DRIVEWAY, SIDEWALKS AND EXTERIOR FEATURES ARE SUBJECT TO MODIFICATION AS DEEMED NECESSARY BY FIELD PERSONNEL.

CUSTOMER DATE

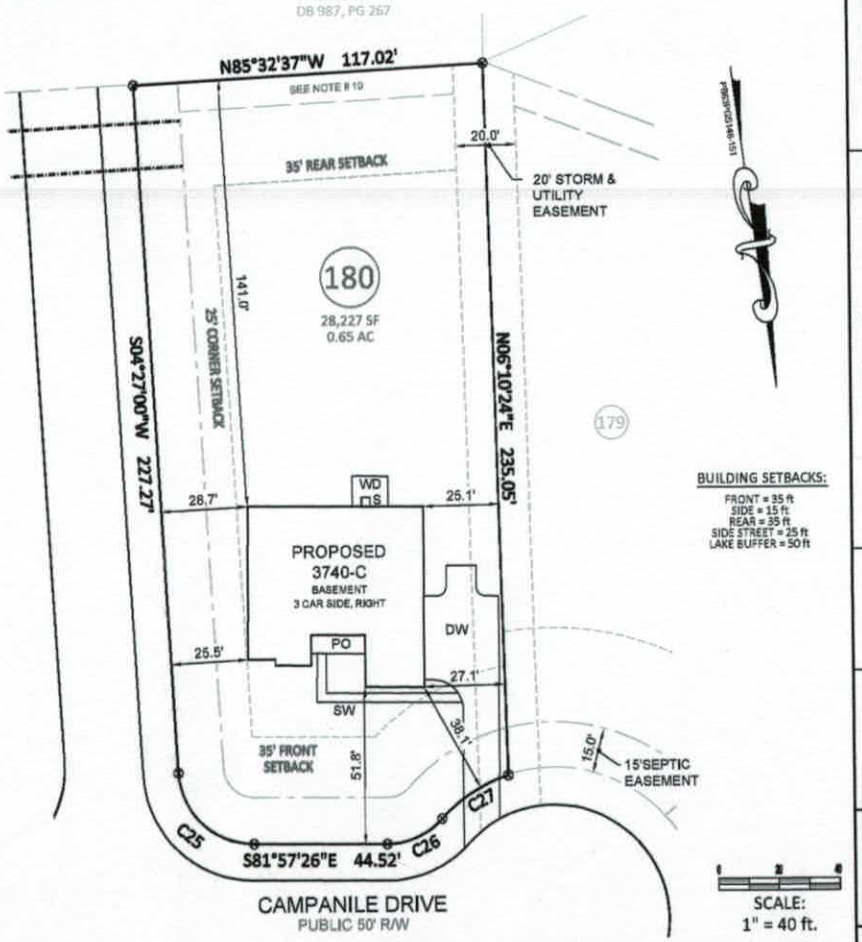
CUSTOMER DATE

MERITAGE REPRESENTATIVE DATE

LOT INFORMATION:

PIN: 4639823532
HOUSE = 3,039 SF
PORCH = 108 SF
SIDEWALK = 183 SF
DRIVEWAY = 1,246 SF
STOOP AT BASEMENT LEVEL = 9 SF
TOTAL LOT AREA = 0.65 AC = 28,227 SF
PROPOSED IMPERVIOUS = 4,585 SF
PERCENT IMPERVIOUS = 16.2 %

SOD AREA = 17,147 SF
ADDITIONAL FLATWORK = 176 SF



BUILDING SETBACKS:

FRONT = 35 ft
SIDE = 15 ft
REAR = 35 ft
SIDE STREET = 25 ft
LAKE BUFFER = 50 ft

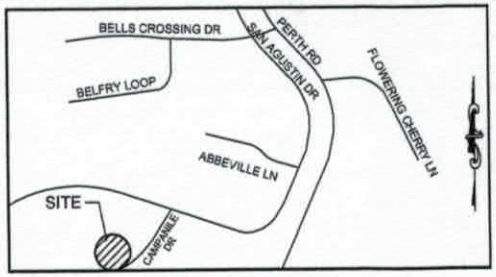
SCALE:
1" = 40 ft.

NOTES:

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT
4. VERTICAL DATUM IS ASSUMED. THE LATITUDE, LONGITUDE AND STATE PLANE COORDINATES, IF SHOWN, ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (NAD83).
5. FIELD EQUIPMENT USED: NIKON TOTAL STATION, EPOCH 35.
6. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
7. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
8. THE PROPERTY LIES IN ZONES "X" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBER 3710463900J & 3710464900J, DATED MARCH 18, 2008.
9. ZONING IS RA.
10. ALL LOT LINES HAVE A 10' DRAINAGE AND UTILITY EASEMENT ALONG ALL LOT LINES UNLESS SHOWN OTHERWISE.
11. PROPERTY OWNER: MERITAGE HOMES OF THE CAROLINAS INC.
    13925 BALLANTYNE CORPORATE PLACE, SUITE 300
    CHARLOTTE, NC 28277

CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C25	25.00'	37.70'	S39°45'13"E	34.23'
C26	25.00'	21.03'	N73°56'52"E	20.41'
C27	50.00'	26.66'	N65°07'31"E	26.34'

Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378



VICINITY MAP
(Not to Scale)

LEGEND

PO = PORCH
CP = COVERED PORCH
P = CONCRETE PATIO
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
⊗ = COMPUTED POINT
○ = IRON PIPE FOUND
● = IRON PIPE SET
● = DRILL HOLE FOUND
WM = WATER METER
CO = CLEAN OUT
AC = AIR CONDITIONER
◎ = SEWER MANHOLE
EB = ELECTRIC BOX
◎ = CABLE BOX
TP = TELEPHONE PEDESTAL
CI = CURB INLET
SP = SCREENED PORCH
☼ = LIGHT POLE
S = CONCRETE STOOP

I hereby certify that this map is correct and that the building lies wholly on the lot and that there are no visible encroachments on said lot.

PRELIMINARY

Steven P. Carson, PLS 4752
Date

This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

APPROVAL FOR STAKING:

THIS PLOT PLAN AS PREPARED BY BATEMAN CIVIL SURVEY CO., IS CORRECT AND IS HEREBY APPROVED FOR STAKING ON THE DATE AS SHOWN BELOW.

MERITAGE HOMES REPRESENTATIVE DATE

PRELIMINARY PLOT PLAN

FOR

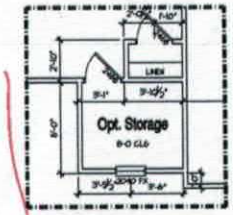
MeritageHomes

BELLS CROSSING - PHASE FOUR - LOT 180
151 CAMPANILE COURT, MOORESVILLE, NC
DAVIDSON TOWNSHIP, IREDELL COUNTY

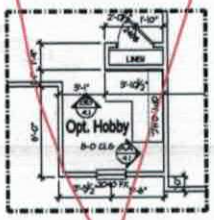
DATE: 4/5/17 DRAWN BY: NMW CHECKED BY: SPC

REF: PB 63, PGS. 146-151 BCS# 120314 SCALE: 1" = 40'

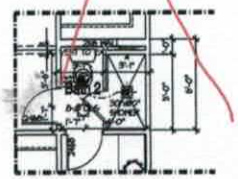
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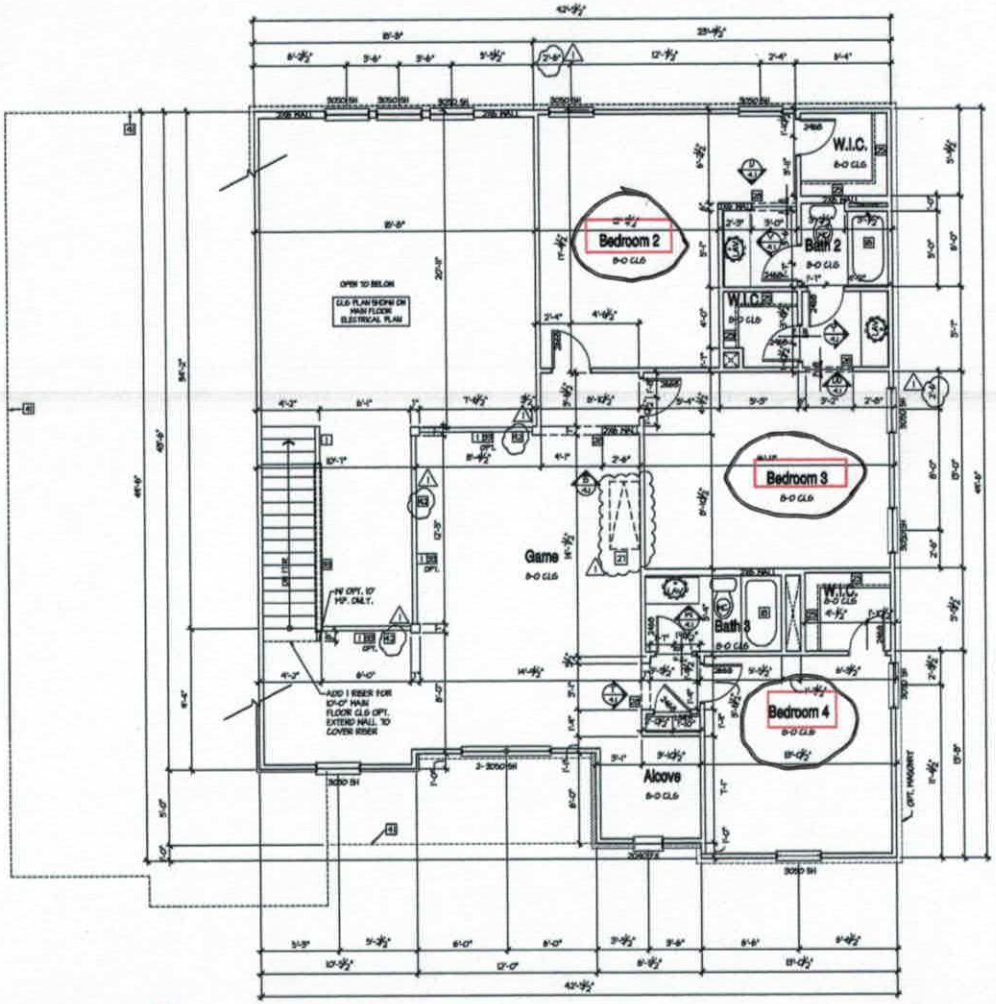
Opt. Storage - C



Opt. Hobby - C



Opt. Shower - Bath 2



Upper Floor Plan - C

FLOOR PLAN NOTES:

(NOTE_FLOOR)

1 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/GUARDRAILS ARE TO BE AT A 34" MINIMUM TO 38" MAXIMUM HEIGHT A.F.F. FOR STAIRS AND 36" MINIMUM ON HORIZONTAL SURFACE GUARDS.
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. PREMIDAL SINK.
13. SHOWER (SIZE AS NOTED)
14. [illegible]
15. 42" X 60" TUB 20" TO TOP OF DECKING
16. [illegible]
17. 30" X 60" TUBSHOWER
18. 32" X 60" TUBSHOWER
19. LINEN SHELVING PER BUILDER SPECS.)
20. WASHER SPACE
21. DRYER, VENT
22. OPTIONAL LAUNDRY SINK.
23. PREVENT NON-COMBUSTIBLE PLATFORM ELEVATED 6" ABOVE GARAGE FLOOR FOR WATER HEATER.
24. 5 SHELVES PER BUILDER SPECS.
25. [illegible]
26. ATTIC ACCESS (22 1/2"x30" U.N.O.)
27. ATTIC ACCESS W/ STAIRS (22 1/2"x54 1/2")
28. GYPSUM BOARD CEILING @ 9'-0" AT MAIN FLOOR & 7'-0" AT UPPER FLOOR U.N.O.
29. GYPSUM BOARD ARCH @ 9'-0" TO 8'-0".
30. GYPSUM BOARD LOW WALL, 36" A.F.F. (U.N.O.) W/ WDF 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"x36" CONCRETE STOOP.
36. 6x8 SKAPE.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
39. OPTIONAL COFFERED CEILING @ 8'-6" 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 CHUTE
46. LOW WALL (34" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-4"
48. LOW WALL 32@ A.F.F.
49. NO HARD LATCH OR LOCKING KNOB

TYPICAL CONSTRUCTION ASSEMBLIES:

A. TYPICAL ROOF CONSTRUCTION:
ASPHALT ROOF SHINGLES

B. TYPICAL FRAME FLOOR CONSTRUCTION:
FINISH FLOORING ON 3/4" T&G/EF & GROOVE FLOOR SHEATHING ON FLOOR TRUSSES OR FLOOR JOISTS AS NOTED OR 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, C, 5, a.

D. WINDOWS:
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE RES. 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. HVAC:
PROVIDE BACK DRAFT DAMPERS @ DRYER VENT, HOOD VENT, & EXHAUST FANS.

G. STONE SILLS:
INSTALL PER LOCAL CODE.

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

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

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

N. BRICK SILLS:
INSTALL PER LOCAL CODE.

SQUARE FOOTAGES

	0
MAIN FLOOR	2356
UPPER FLOOR	1472
SUBTOTAL	3828
FINISHED BASEMENT	1765
UNFINISHED BASEMENT	1077
GARAGE	478
PORCH	105
DECK	207
OPT EXTENDED DECK	207
OPT SCREEN PORCH	301
TOTAL	7966

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

Acknowledgement of Plans Submittal ONLY!

Date 4-6-17

Date 4/17/17

ISSUE DATE: 01/17/2014

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-322-2295 Phone

Meritage Homes

Meritage Homes

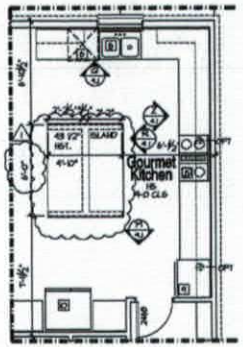
BSB DESIGN

www.bsbdesign.com
4021 Wickfield Parkway, Suite 200
West Des Moines, Iowa 50265
515.270.2021

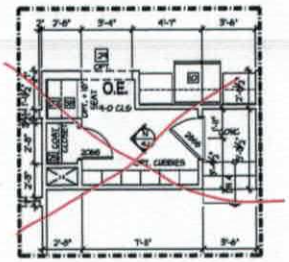
JOB NO: 03/13035 PROJECT: 3740
DRAWN: CHECKED: JP LD
UPPER FLOOR PLAN - C

259 - 3740

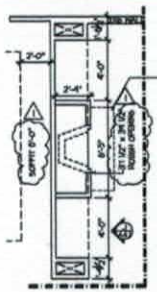
A2.2C



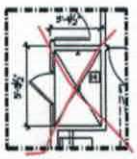
Main Floor Plan - Opt Kitchen



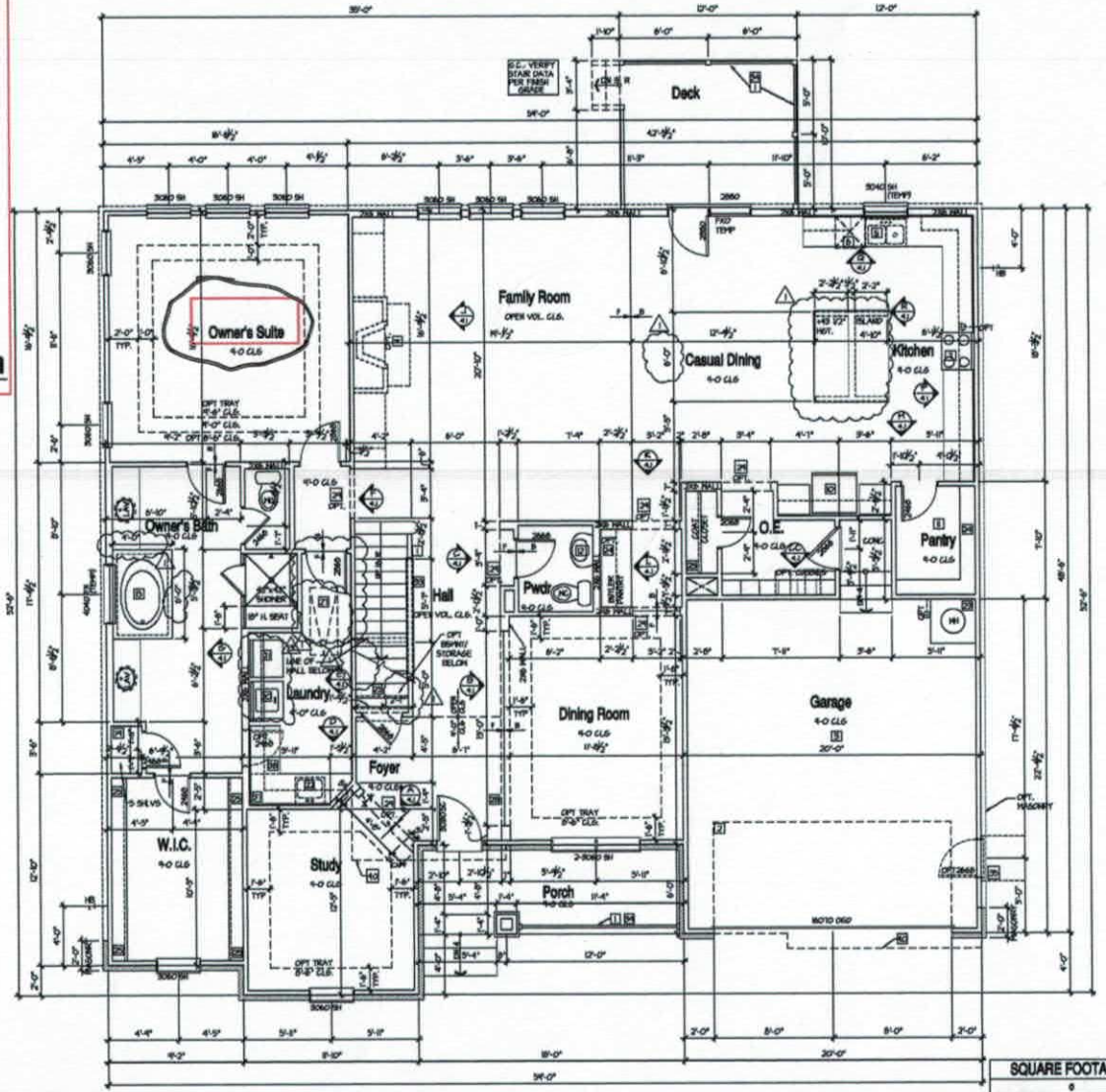
Main Floor Plan - Opt O.E.



Main Floor Plan
Opt Fireplace



Opt. Owner's Shower
Main Floor Plan



Main Floor Plan - C

FLOOR PLAN NOTES:

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. FOR STAIRS AND 36" MINIMUM ON HORIZONTAL SURFACE GUARDS.
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6. DISHWASHER
7. RANGE
8. COOK TOP
9. OVEN
10. REFRIGERATOR SPACE.
11. PANTRY
12. PEDESTAL SINK
13. WASHER SIZE AS NOTED
14. [illegible]
15. 42" x 80" TUB 21" TO TOP OF DECKING
16. [illegible]
17. 30" x 60" SHOWER
18. 32" x 60" TUB/SHOWER
19. LINEN SHELVING PER BUILDER SPECS.)
20. WASHER SPACE
21. DRYER, VENT
22. OPTIONAL LAUNDRY SINK.
23. PROVIDE NON-COMBUSTIBLE PLATFORM ELEVATED 8" ABOVE GARAGE FLOOR FOR WATER HEATER.
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25. [illegible]
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30. GYPSUM BOARD LOW WALL, 36" A.F.F. (U.N.O.) W/ HDF CAP.
31. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR THRU.
32. PLANT SHELF, SEE EXTERIOR ELEVATIONS.
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34. PORCH RAIL, SEE ELEVATION.
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36. 5x8 BEAM.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
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43. 2X6 LOW WALL 42" A.F.F.
44. ART NICHE
45. HORIZONTAL LAUNDRY CHUTE
46. LOW WALL 42" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-4"
48. LOW WALL 30½" A.F.F.
49. 3D HARD LATCH OR LOCKING KNOB

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 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 M, G, & a.

D. WINDOWS.
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE RES. 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.
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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, & EXHAUST FANS.

G. SIGNAL SMOKE.
INSTALL PER LOCAL CODE.

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

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

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

K. BRICK SIDING.
INSTALL PER LOCAL CODE.

SQUARE FOOTAGES	
A	
MAIN FLOOR	2358
UPPER FLOOR	1421
PARTIAL	1188
FINISHED BASEMENT	1188
UNFINISHED BASEMENT	1070
GARAGE	430
PORCH	120
DECK	120
OPT. EXTENDED DECK	301
OPT. SCREEN PORCH	301
TOTAL	3988

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

Acknowledgement of Plans Submittal ONLY!

Date 4-6-17

Date 4/17/17

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-522-2285 Phone

Meritage Homes

ISSUE DATE: 01/17/2014
REVISIONS:

Meritage Homes

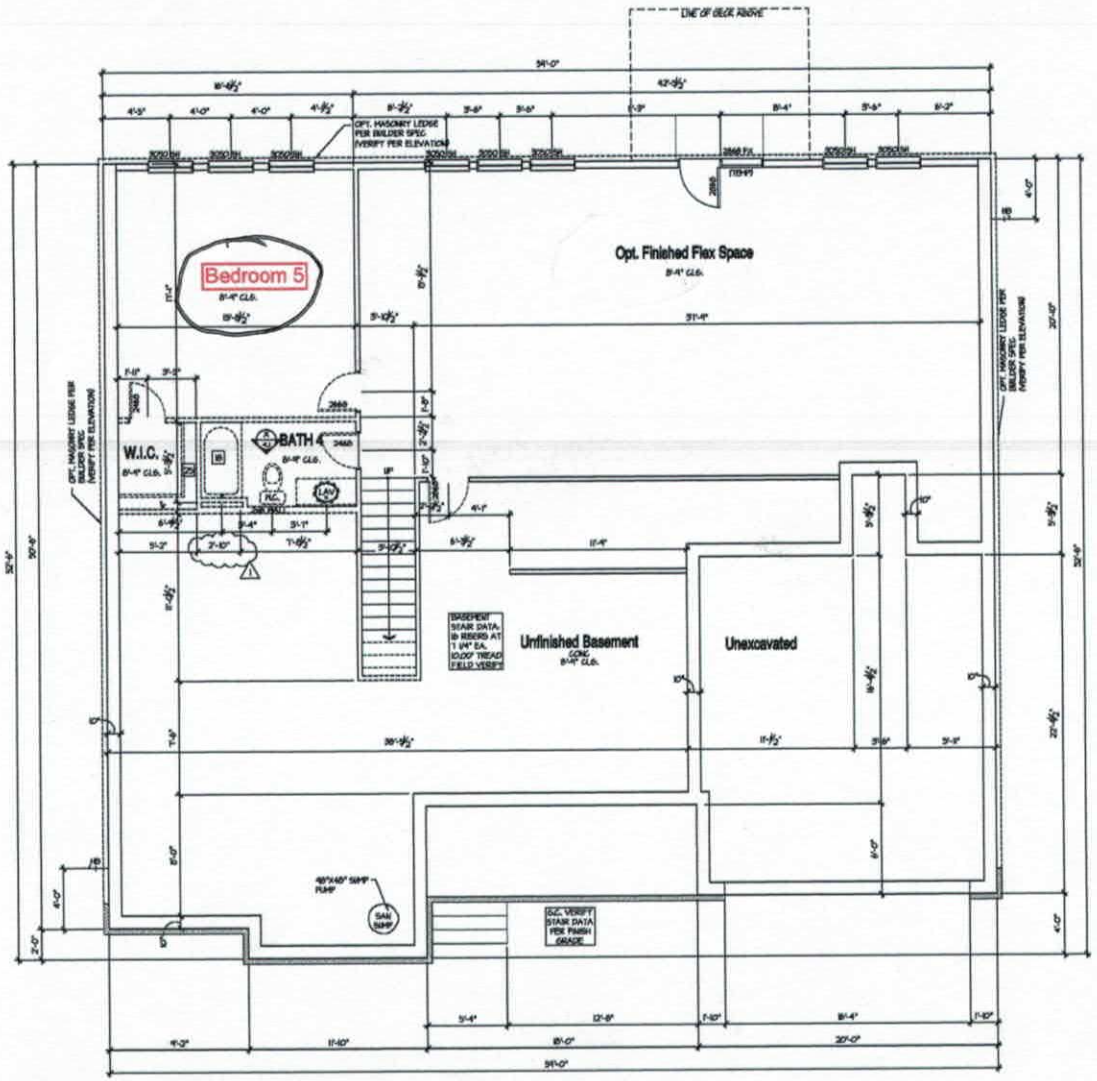
BSB DESIGN
www.bsbdesign.com
4021 Wilkinson Parkway, Suite 205
West Des Moines, Iowa 50266
515.223.3580

JOB NO: 03-13126 PROJ MGR: JF
DRAWN: CHECKED: JF-03

MAIN FLOOR PLAN - C

259 - 3740

A2.1C



Optional Walkout Basement - C

0 2' 4' 8'

59'

52'6 11

FOUNDATION NOTES

SCHE_FOUNDATION

1. STRUCTURAL FOUNDATION PLANS SHALL BE BY OTHERS. SEE STRUCTURAL FOUNDATION AND FRAMING PLANS FOR STEEL, COLUMN, STEEL BEAM, HOOD POST SIZES, AND DIMENSIONS.
2. DROP TOP OF FOUNDATION AT GARAGE DOOR.
3. EMERGENCY EGRESS: WINDOWS SHALL COMPLY WITH GOVERNING FIRE & BUILDING CODES. MAXIMUM SILL HEIGHT OF EGRESS WINDOW SHALL NOT BE MORE THAN 44" A.F.F.
4. WINDOW WELL AS SPECIFIED BY BUILDER. CLEAR DIMENSIONS OF WELL SHALL BE 36"x36" MINIMUM W/ LADDER AT EGRESS WINDOWS.
5. DROP TOP OF FOUNDATION AT PORCH STOOP.
6. LINE OF FRAMING ABOVE.
7. LINE OF STOOP ABOVE.
8. HANDRAIL.
9. SUMP PIT LOCATION AS REQUIRED BY SOILS ENGINEER.
10. 30"x30" CRAWL SPACE ACCESS PANEL, AS REQUIRED BY CODE.
11. APPLY 10 MIL. POLYVINYL GROUND COVER OVER FINISH GRADE OF CRAWL SPACE, OR PER BUILDERS SPECIFICATIONS. INSULATE PER RES. CHECK REQUIREMENTS.
12. MECHANICAL CRAWL SPACE VENTILATION PER LOCAL CODE.
13. OPTIONAL 3 WIRE SHELF LINEN
14. OPTIONAL WIRE SHELVING PER BUILDER SPEC.
15. OPTIONAL VANITY
16. FLOOR DRAIN
17. BEAM POCKET
18. LINE OF SLAB ABOVE.
19. PROVIDE MIN 1/2" GYPSUM BOARD ON WALLS, UNDER STAIR SURFACE, AND OR SOFFITS OF ENCLOSED ACCESSIBLE SPACE UNDER STAIRS.
20. STANDARD BEARING WALL

FLOOR PLAN NOTES:

SCHE_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. FOR STAIRS AND 36" MINIMUM ON HORIZONTAL SURFACE GUARDS.
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. SHOWER (SIZE AS NOTED)
14. TUB
15. 42" X 80" TUB 21" TO TOP OF DECKING
16. 60"x34"x20" CORNER TUB
17. 30" X 80" TUBSHOWER
18. 32" X 80" TUBSHOWER
19. LINEN SHELVING PER BUILDER SPECS.
20. HAMPER 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. BIRD AND SNAKE PER BUILDER SPECS.
26. ATTIC ACCESS (22 1/2"x30" UNO.).
27. ATTIC ACCESS W/ STAIRS (25 1/2"x54 1/2" UNO.)
28. 5'-0" SOLID CORE DOOR @ 9'-0" HIGH FLOOR & 11'-0" AT UPPER FLOOR (UNO.
29. GYPSUM BOARD ARCH @ 1'-2" TO 8'-0".
30. GYPSUM BOARD LOIN HALL, 30" A.F.F. (UNO.) W/ HDF CAP.
31. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR FINISH.
32. PLANT SHELF, SEE EXTERIOR ELEVATIONS.
33. HALF WALL W/ HDF CAP OR OPTIONAL LOW WALL WITH RAILING ABOVE.
34. PORCH RAIL, SEE ELEVATION.
35. 36"x36" CONCRETE STOOP.
36. 6x8 BEAM.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
39. OPTIONAL COFFERED CEILING @ 8'-6" PER BUILDER SPEC.
40. LINE OF FRAMING ABOVE.
41. LINE OF FRAMING WALL BELOW.
42. 2HR LOW WALL 42" A.F.F.
43. 2HR LOW WALL 42" A.F.F.
44. ART NICHE
45. HORIZONTAL LAUNDRY CHUTE
46. LOW WALL 42" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-6"
48. LOW WALL 30" A.F.F.
49. NO HARD LATCH OR LOCKING KNOB

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 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 N, C, R 506.

D. WINDOWS.
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE RES. CHECKS.
B. WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR NARROW 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:
1'-0" A.F.F. @ 8'-1 1/8" PLATE HEIGHT (UNO.)
8'-0" A.F.F. @ 9'-1 1/8" PLATE HEIGHT (UNO.)

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

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

G. SOUND DEADEN.
INSTALL PER LOCAL CODE.

H. DIMENSIONS ARE TO THE FACE OF STUD, UNO.

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

M. ALL WALLS PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED.

K. DECK SIZING.
INSTALL PER LOCAL CODE.

Acknowledgement of Plans Submittal ONLY!

Date 4-6-17

Date 4/17/17

ISSUE DATE: 01/17/2014
REVISIONS:

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-322-2295 Phone

Meritage Homes

Meritage Homes

BSB DESIGN

www.bsbdesign.com
4021 Stirrup Creek Parkway, Suite 205
West Chapel Hill, North Carolina 27516
919.479.8181

JOB NO. 02-10139 PROJ MGR. JF
DRAWN CHECKED JP-JS
WALKOUT BASEMENT PLAN - C

259 - 3740

A0.1C

Bells Crossing Lot 180

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER
212208
Issue Date: 07/28/2015

ZONING PERMIT

Parcel Number	Street Address	Jurisdiction
4639834045.000	151 CAMPANILE DRIVE, MOORESVILLE, NC 28117	IREDELL COUNTY

Owner Information	Applicant Information
Owner: MERITAGE HOMES OF NC INC	Applicant: MERITAGE HOMES
Address: 17851 N 85TH ST MOORESVILLE, AZ 85255	Address: 7761 BALLANTYNE COMMONS PKWY SUI CHARLOTTE, NC 28277
Phone:	Phone: 704-944-8903

Use Requested	Zone Code
SFD	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
76.003	35.00	35.00	25.00	15.00	CACL	AE

Remarks:

PAID
✓ 70506627
8-19-15

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Applicant: _____ Date: _____

Permit Number	44915	TOTAL FEES:	$ 77.25