IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 212214

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

PIN # 4639-83-4045 ~~82-8467~~

APPLICANT/OWNER: BCSC APPLICANT ADDRESS: 2524 Reliance Ave. Apex, NC

SITE ADDRESS: 129 Campanile Dr. Mooresville, NC PHONE: 704-658-8616 ALT. PHONE

SITE DIRECTIONS: Perth, TL Bells, TL San Agustine, TL Campanile, onL SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Bells Crossing SECTION: 4 LOT # 184 LOT AREA: .75 AC DESIGN FLOW: 600 L.T.A.R.: .3

Septic Tank	1250	(gal)	STB	444	Date	9-4-17	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	
Pump Tank	1250	(gal)	PT	477	Date	7-31-17	System Description:	PM-25%			
Pump Make	Zoeller		Model	N140	Serial #		Repair System Description:	50%			
# Nitrification Fields	1		# Lines	6	Linear Ft	508'	Maintenance Agreement Required:	☐ YES	☒ NO		
Trench Width	36"		Trench Bottom Depth(Low side)	24-30"	Gravel Depth	—		☐ GRAVITY	☒ PRESSURE		

☒ Residence	No. Bedrooms	5	Water Supply
☐ Business	No. Persons	10	☐ Private
☐ Other	No. Employees		☐ Public
☒ Slab	☐ Crawl Space		☒ Community
☐ Basement w/plumbing		☐ Basement w/o plumbing	

Comments / Conditions:

10/10/17 Checked tanks & drain lines.

INITIAL SITE SKETCH

SEE PLAN FROM BCSC

AS BUILT SKETCH

10-13-17: Tap sizes do not match current permit. Tap sizes were installed based on old permit. KW Permit approved 8-8-16 by TS.

	Date	Initials
Drain Lines Checked	10-10-17	MD
Tanks Checked	10-10-17	MD
Pressure Manifold or Valve Box Checked	10-13-17	KW
Pressure Head Set	10-13-17	KW
Electrical Checked	1-11-18	KW
Floats Set	10-13-17	KW
Alarm Checked	10-13-17	KW
Maintenance Contract Y (N)		
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: Date: June 27 2017 Installed by: BCSC

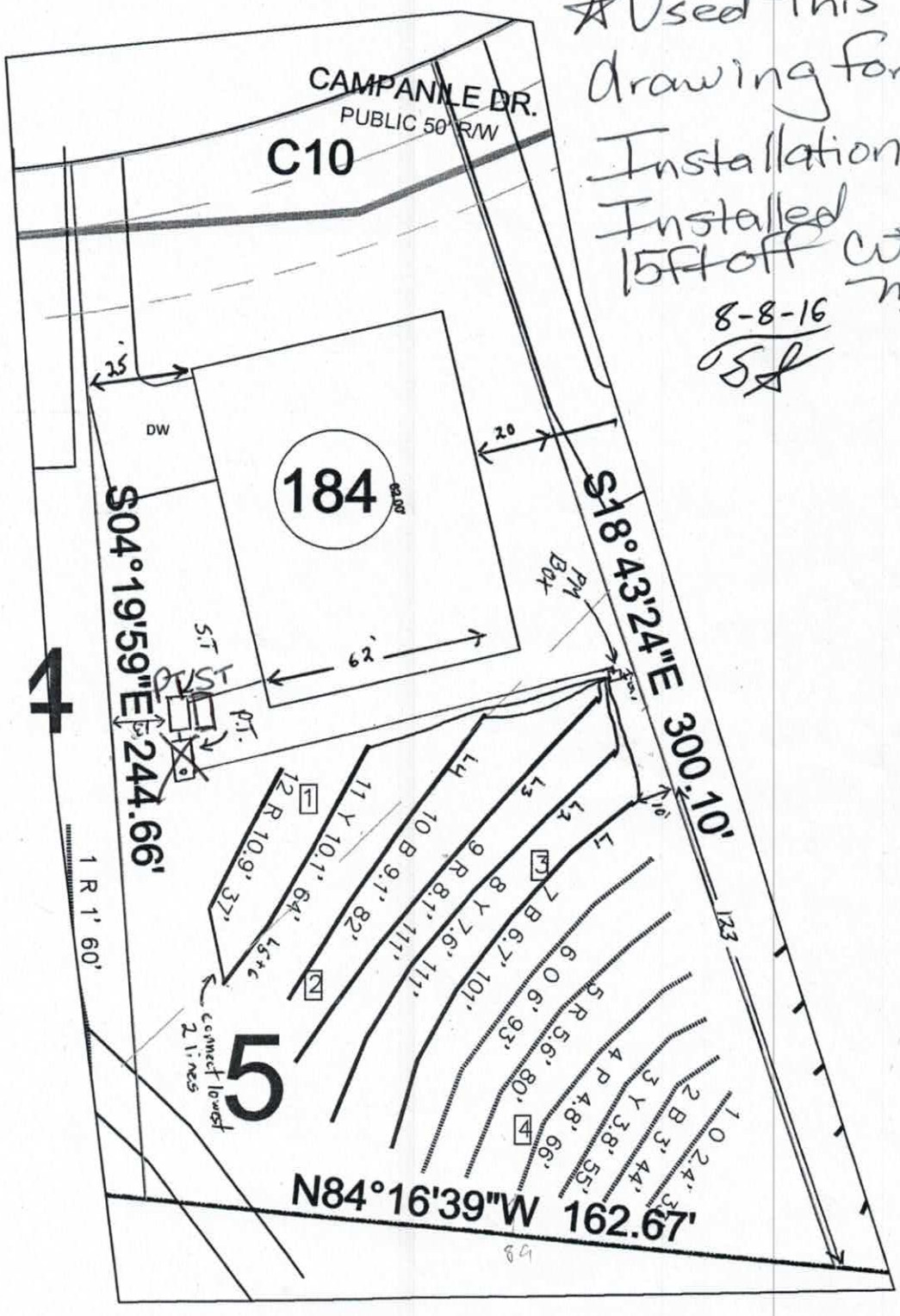
IMPROVEMENT PERMIT by: APPROVED Date: JUN 15 2017 OPERATION PERMIT by: Date: 1-11-18

AUTHORIZATION TO CONSTRUCT by: APPROVED Date: JUN 15 2017 Existing System Inspected by: Date:

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

★Used this drawing for Installation. Installed 15ft off cut. mo
8-8-16
DS



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 184
BELLS CROSSING SUBDIVISION

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

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)	DESIGN LENGTH
1	WHITE	0.0	27	27
2	ORANGE	0.5	39	39
3	BLUE	0.9	49	49
4	YELLOW	1.7	62	58
5	PINK	2.6	77	75
6	RED	3.2	87	75
7	ORANGE	3.9	101	100
8	BLUE	4.5	111	100
9	YELLOW	5.4	105	100
10	RED	6.5	88	88
11	BLUE	7.3	77	77
12	YELLOW	8.1	67	67
13	RED	8.7	63	63
			953	918

LOT 184 BELLS CROSSING SUBDIVISION

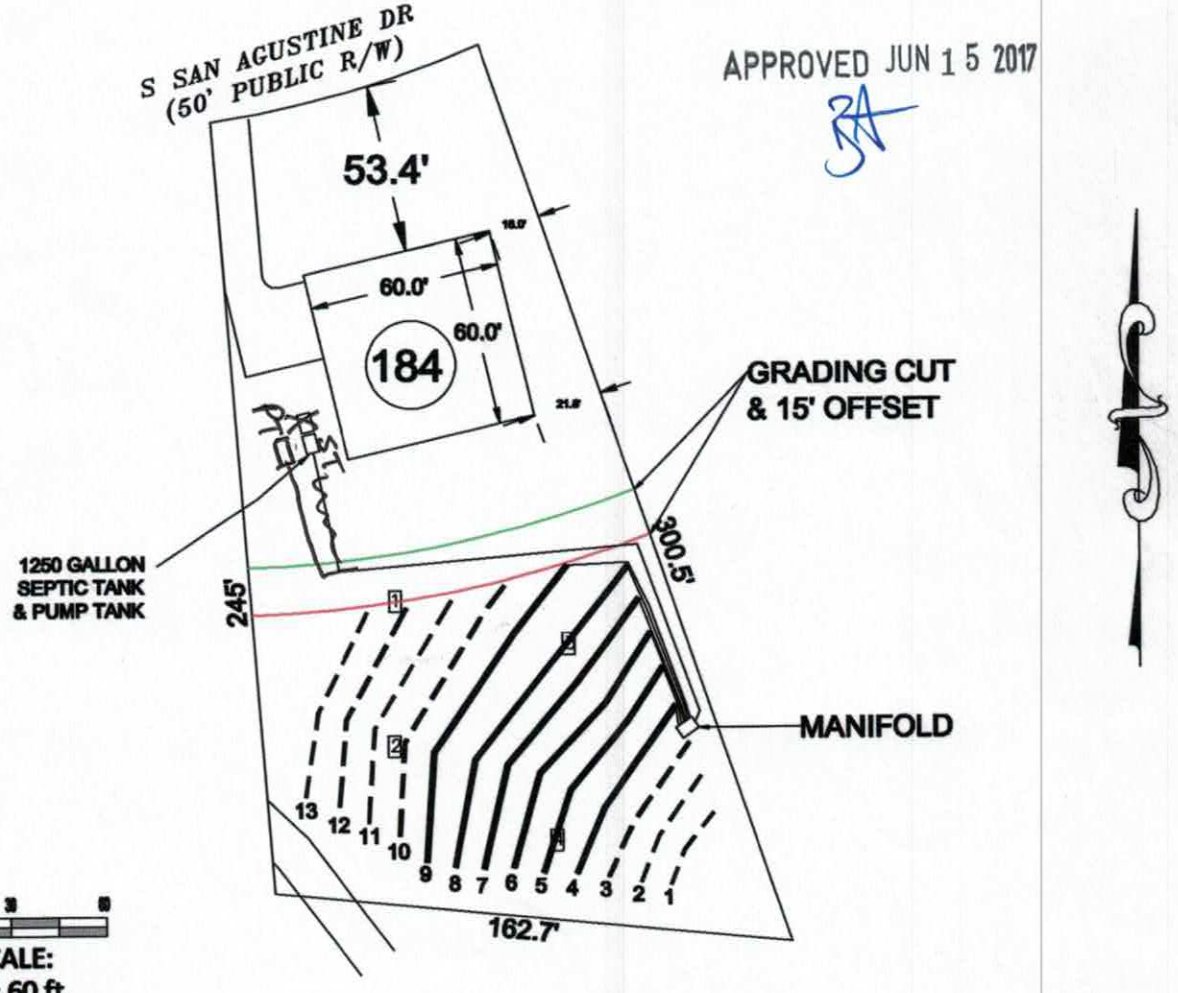
5-BEDROOM PRESSURE MANIFOLD SYSTEM
LINES 4-9 TOTAL 508 LINEAR FEET
EZFLOW OR CHAMBER
24" MAX TRENCH DEPTH
LTAR 0.3
25% REDUCTION

5-BEDROOM LPPPB (T&J PANEL BLOCK) REPAIR
LINES1-3 & 10-13 TOTAL 410 LINEAR FEET
LTAR 0.3
50% REDUCTION

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

SOIL ANALYSIS AND APPLICATION RATES PROVIDED BY IREDELL COUNTY HEALTH DEPARTMENT

APPROVED JUN 15 2017



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-3576

MeritageHomes

LOT 184
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY

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

Pressure Manifold
Septic System Design

for

Bells Crossing PH 4 S/D Lot 184
Raleigh, North Carolina

Designed by:

Michael Benfield
Bateman Civil Survey Company, PC
Apex, North Carolina
BCSC Project #: 120314.184

04/23/2017

Bells Crossing PH 4 S/D Lot 184

Table of Contents

Contact Information ---------- 1
Specifications (system) ---------- 2
Tap Chart (system) ---------- 3
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 184

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

APPROVED JUN 15 2017

Bells Crossing PH 4 S/D Lot 184

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:	42	**in**
Manifold Diameter:	4	**in sch 80pvc**
Supply Line Length:	192	**ft**
Supply Line Diameter:	3	**in sch 40pvc**
Supply Line Volume:	65.86	**gallons**
Friction Loss + Fitting Loss:	0.36	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	6.50	**ft**
Total Head:	8.86	**ft**
Dose Volume:	247.95	**gals**
% of Pipe Vol.	.75	
Drawdown:	12.30	**in @ 20.16 gal/in**
Pump Run Time:	4.96	**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 184

SYSTEM TAP CHART

APPROVED JUN 15 2017

BA

Bench Mark:	9	= 100.00	**Manifold elev:**	108.30	
Pump tank elevation:	23.00		**Pump elev:**	17.60	

line	color	rod read	elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
4	Yellow	1.70	107.30	58	1/2in SCH 80	5.48	55.68	174	0.3200
5	Pink	2.60	106.40	75	1/2in SCH 40	7.11	72.24	225	0.3211
6	Red	3.20	105.80	75	1/2in SCH 40	7.11	72.24	225	0.3211
7	Orange	3.90	105.10	100	3/4in SCH 80	10.1	102.62	300	0.3421
8	Blue	4.50	95.50	100	3/4in SCH 80	10.1	102.62	300	0.3421
9	Yellow	5.40	94.60	100	3/4in SCH 80	10.1	102.62	300	0.3421
	P-TANK	21.00	88.00						
		total	**feet =**	**508**	**gal/min =**	**50**		**LTAR =**	**0.300**

Des. Flow
24 Hour Pump Run= 10.16 ~~508~~ 600

(ltar + 5%)	0.32
(ltar W/ INOV)	0.40
(ltar + 5%)	0.42

Comments:

PERC SOIL/SITE EVALUATION DESCRIPTIONS

Client: Bateman Civil Survey Company, PC

Date Evaluated: Feb-15 + 6/11/2016 by Tom Shuck

Location of site: Bells Crossing Phase 4 Lot 184

Water Supply: [ ] 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 .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	LS 5%	0-7	GR / SL	FR SS SP	>50	50	NA	NA	PS 0.3
		7-32	ABK / C	FR SS SP					
		32-50	W SBK / CL	FR SS SP					
		62							
2	LS 5%	0-6	GR / SL	FR SS SP	>54	54	NA	NA	PS 0.3
		6-32	ABK / C	FR SS SP					
		32-54	W SBK / CL	FR SS SP					
		31-65							
3	LS 5% 32+	0-9	GR / SL	FR SS SP	>53	53	NA	NA	PS 0.3
		9-36	ABK / C	FR SS SP					
		36-53	W SBK / CL	FR SS SP					
		~53							
4	LS 5%	0-4	GR / SL	FR SS SP	>47	47	NA	NA	PS 0.3
		4-27	ABK / C	FR SS SP					
		27-47	W SBK / CL	FR SS SP					
		28-38	w/Sap 46→58"						

COMMENTS: Pit 1 saprolite inclusions @ 32", some rock in profile <10%. Pit 2 saprolite inclusions @ 32". Pit 3 some rock and WR on one side of pit @ 42". Pit 4 mica inclusions @ 27", WR in portions of pit.

Evaluation By: Steven Price

Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope			
T-Terrace		SICL-Silty Clay Loam	
FP-Flood Plain		CL-Clay Loam	
		SCL-Sandy Clay Loam	
	IV	SC-Sandy Clay	0.4 - 0.1
		SIC-Silty Clay	
		C-Clay	

Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic
W-Weak

Consistence Moist	Consistence Wet
VFR-Very Friable	NS-Non-Sticky
FR-Friable	SS-Slightly Sticky
FI-Firm	S-Sticky
VFI-Very Firm	VS-Very Sticky
EFI-Extremely Firm	NP-Non-Plastic
	SP-Slightly Plastic
	P-Plastic
	VP-Very Plastic

LICENSED SOIL SCIENTIST STEVEN M. PRICE 1163 STATE OF NORTH CAROLINA

* - Locations of lines match proposed layout by BCSC. SP

RECEIVED JUN 2 8 2017

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit (✓) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

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.

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 an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: BCSC **Address:** 2524 Reliance Ave Apex NC **Phone:** 704-658-86

Owner Name: Meritage Homes **Address:** _____ **Phone:** _____

Property Information:

Street Address: 129 Campanile Court

Subdivision Name: Bells Crossing **Section/Phase:** 4 **Lot Number:** 184

Driving Directions: _____

Site Development Information: ***(check or complete ALL that apply)***

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 5
Maximum Number of Occupants: 10
( ) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
(✓) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:
Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

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

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:** _____

(✓) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

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. industrial) 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.

Signature: _____ JUNE 28 17
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

RECEIVED MAY 25 2017

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Re-draw

Paid $320.00
#212214

Application For:
( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

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.

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Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: BCSC **Address:** 9524 Reliance Ave Apex NC **Phone:** 704 658-80

Owner Name: Meritage Homes **Address:** _____ **Phone:** _____

Property Information:

Street Address: 129 Campanile Dr

Subdivision Name: Bells Crossing **Section/Phase:** 4/2 **Lot Number:** 184

Driving Directions: _____

Site Development Information: ***(check or complete ALL that apply)***

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 5
Maximum Number of Occupants: 10
( ) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
(✓) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:
Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

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

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:** _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

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. industrial) 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.

Signature: _____ 5-18-17
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)_____, 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

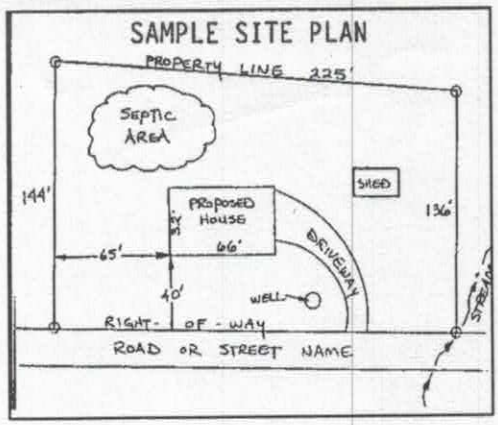
ENVIRONMENTAL HEALTH DIVISION

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

See Attached

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

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

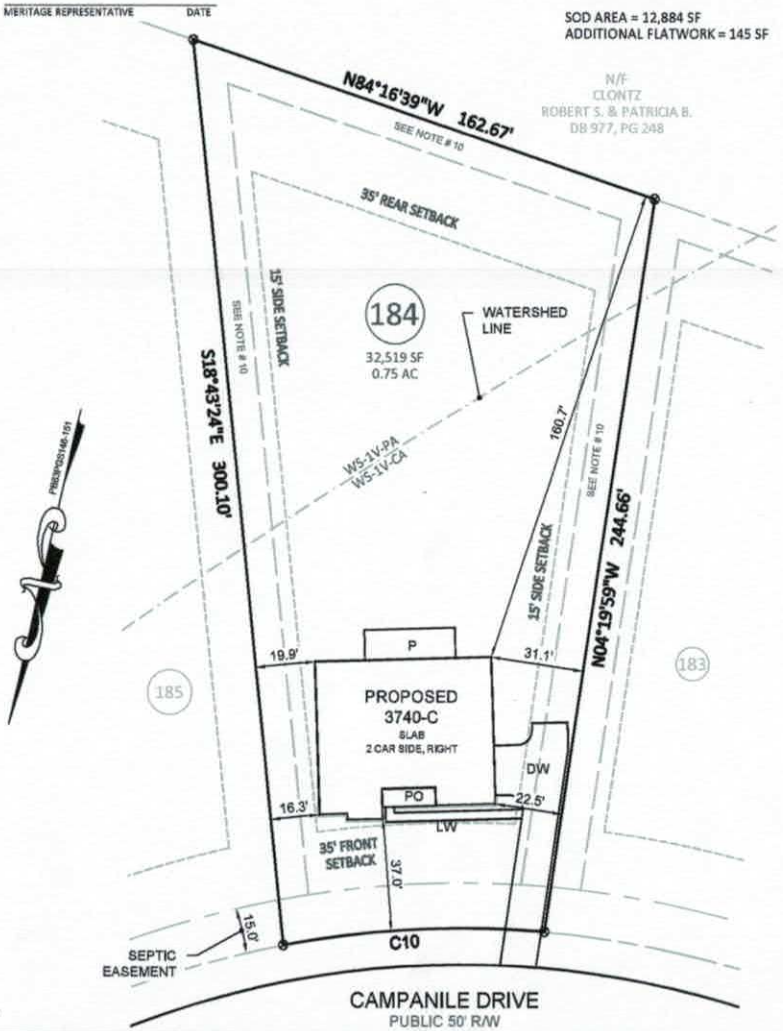
LOT INFORMATION:

PIN: 4639828467
HOUSE = 2,841 SF
PORCH = 166 SF
LEADWALK = 143 SF
DRIVEWAY = 1,033 SF
PATIO = 305 SF
AC PAD = 9 SF
TOTAL LOT AREA = 0.75 AC = 32,519 SF
PROPOSED IMPERVIOUS = 4,447 SF
PERCENT IMPERVIOUS = 13.7 %

SOD AREA = 12,884 SF
ADDITIONAL FLATWORK = 145 SF



INSET SCALE: 1"=20'



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

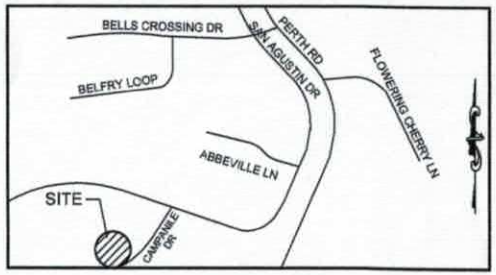
CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C10	325.00'	67.65'	N74°01'56"E	67.39'

SCALE:
1" = 40 ft.

REVISIONS: CHANGE HOUSE MODEL FROM 3016-C 3 CAR TO 3740-C 2 CAR PER NEW START ORDER: REDO PLOT PLAN 8-27-17 NMW

P:\2012 MLS\120314 Bells Phase 4\dwg\120314 Bells Ph4 Plot MLS.dwg, 9/27/2017 8:39:48 AM, swilber

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 PATIO
P = CONCRETE PATIO
WD = WOOD DECK
LW = LEADWALK
DW = CONC DRIVEWAY
⊗ = COMPUTED POINT
○ = IRON PIPE FOUND
◉ = IRON PIPE SET
● = DRILL HOLE FOUND
WM = WATER METER
CD = CLEAN OUT
AC = AIR CONDITIONER
Ⓢ = SEWER MANHOLE
EB = ELECTRIC BOX
CB = CABLE BOX
TP = TELEPHONE PEDESTAL
CI = CURB INLET
SP = SCREENED PORCH
☼ = LIGHT POLE

BUILDING SETBACKS:

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

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

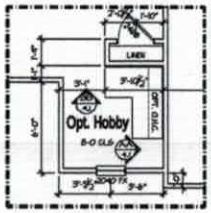
BELLS CROSSING - PHASE FOUR - LOT 184
129 CAMPANILE COURT, MOORESVILLE, NC
DAVIDSON TOWNSHIP, IREDELL COUNTY

DATE: 4/25/17 DRAWN BY: NMW CHECKED BY: SPC

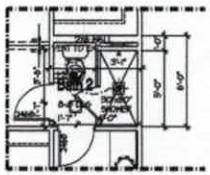
REF: PB 63, PGS. 146-151 BCS# 120314 SCALE: 1" = 40'



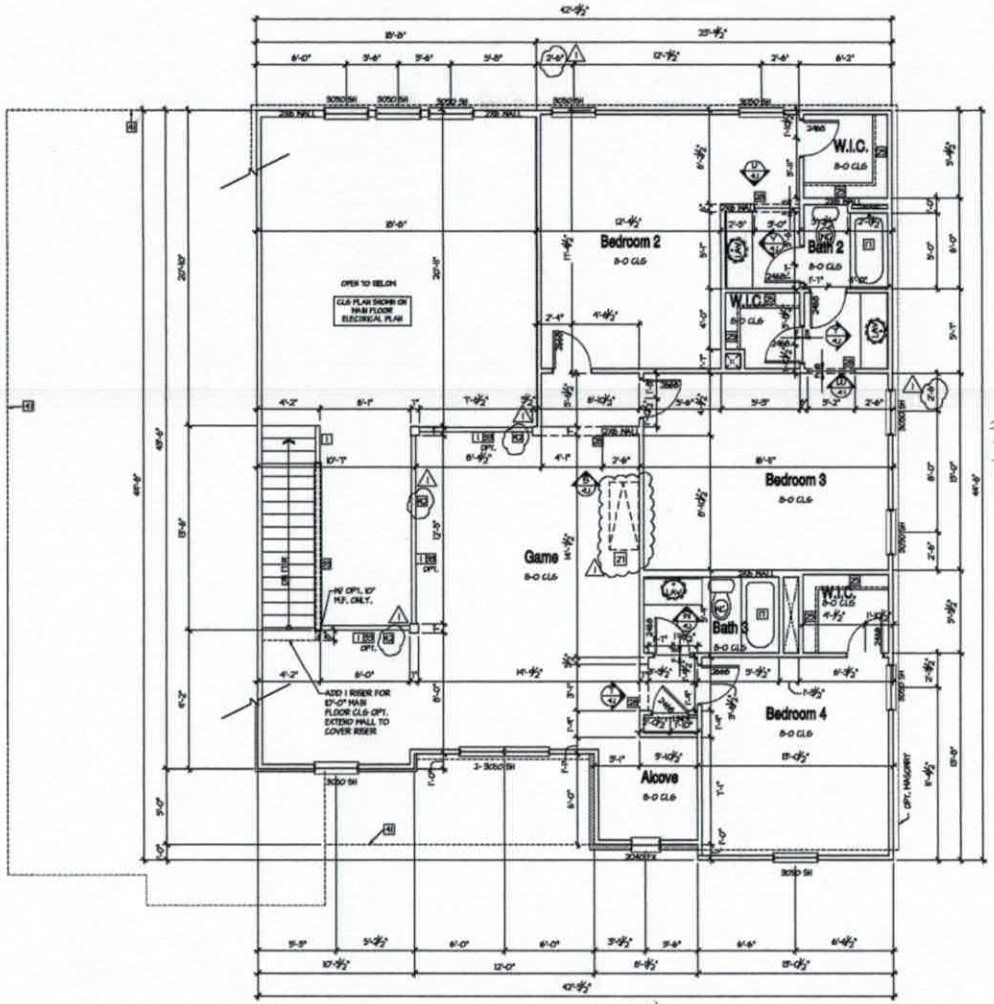
Opt. Storage - C



Opt. Hobby - C



Opt. Shower - Bath 2



Upper Floor Plan - C

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

SQUARE FOOTAGES

MAIN FLOOR	2340
UPPER FLOOR	1421
SUBTOTAL	3761
FINISHED BASEMENT	1296
UNFINISHED BASEMENT	1059
GARAGE	478
PORCH	126
DECK	130
OPT EXTENDED DECK	507
OPT SCREEN PORCH	301
TOTAL	3748

FLOOR PLAN NOTES:

SHEET NOTE

1. THE FOLLOWING KEYNOTES REFERENCE THE SYMBOLS AS SHOWN ON PLANS.
2. IF RAILING / GUARDRAIL IS PROVIDED, ALL RAILING / HANDRAIL 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.
3. LINE OF OVERHEAD GARAGE DOOR IN OPEN POSITION.
4. SLOPE GARAGE FLOOR 1/8" PER FOOT TOWARD OVERHEAD GARAGE DOOR OPENING.
5. FIREPLACE, AS SPECIFIED BY BUILDER. INSTALL PER MANUFACTURERS SPECIFICATIONS. ALL FACTORY BUILT FIREPLACES SHALL COMPLY WITH LOCAL CODES.
6. SINK W/ GARBAGE DISPOSAL
7. DISHWASHER
8. RANGE
9. COOK TOP
10. OVEN
11. REFRIGERATOR SPACE.
12. PANTRY.
13. PEDESTAL SINK
14. 42" X 42" SHOWER
15. 60"X 60" SHOWER
16. 42" X 60" TUB 21" TO TOP OF DECKING
17. 60"X 60" SHOWER
18. 30" X 60" TUB/SHOWER
19. 32" X 60" TUB/SHOWER
20. LINEN SHELVING PER BUILDER SPECS.)
21. WASHER SPACE
22. DRYER, VENT
23. OPTIONAL LAUNDRY SINK.
24. PROVIDE NON-COMBUSTIBLE PLATFORM ELEVATED 6" ABOVE GARAGE FLOOR FOR WATER HEATER.
25. 5 SHELVES PER BUILDER SPECS.
26. 4'0R 5'-0" LINEN PER BUILDER SPECS.
27. ATTIC ACCESS (22 1/2"x30" (U.N.O.)
28. ATTIC ACCESS W/ STAIRS (25 1/2"x54 1/2".)
29. DROP CEILING @ 9'-0" W/ 5'-0" W/ 3'-0" FLOOR & 7'-0" AT UPPER FLOOR (U.N.O.)
30. GYPSUM BOARD ARCH @ 11'-2" TO 8'-0"
31. GYPSUM BOARD LOW WALL 36" A.F.F. (U.N.O.) W/ WDF CAP.
32. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR FINISH.
33. PLANT SHELF, SEE EXTERIOR ELEVATIONS.
34. HALF WALL W/ WOOD CAP OR OPTIONAL LOW WALL WITH RAILING ABOVE.
35. PORCH RAIL, SEE ELEVATION.
36. 36"x36" CONCRETE STOOP.
37. 6x8 BEAM.
38. OPTIONAL UPPER CABINETS.
39. OPTIONAL CABINETS.
40. OPTIONAL COFFERED CEILING @ 8'-6" PER BUILDER SPEC.
41. LINE OF FRAMING ABOVE.
42. LINE OF FRAMING WALL BELOW.
43. 2X8 LON WALL 42" A.F.F.
44. 2X6 LON WALL 42" A.F.F.
45. ANTI MICRO
46. HORIZONTAL LAUNDRY CHUTE
47. LON WALL 42" A.F.F.
48. GYPSUM BOARD ARCH @ 8'-0" TO 6'-6"
49. LON WALL 30" A.F.F.
50. 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 M, C, R, 506.

D. WINDOWS:
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE IRC'S 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. SIDING SCREEN: INSTALL PER LOCAL CODE.

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

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

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

M. BRICK SIDING: INSTALL PER LOCAL CODE.

ISSUE DATE: 01/17/2014
REVISIONS

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

Meritage Homes

Meritage Homes

BSB DESIGN

JOB NO. 03/13225 PROJ MGR. JF
DRAWN DESIGNED JF/JG

UPPER FLOOR PLAN - C

259 - 3740

A2.2C

Acknowledgement of Plans Submittal ONLY!

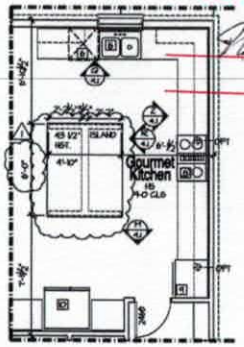
Date 6-23-17

Date APPROVED JUL 10 2017

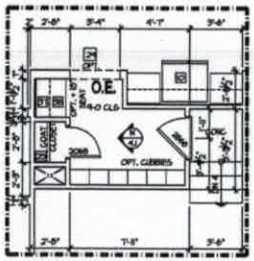
Acknowledgement of
Plans Submittal ONLY!

Date 6-28-17

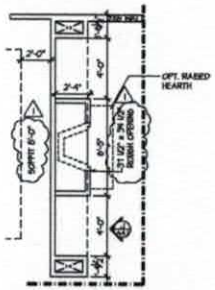
Date APPROVED JUL 10 2017



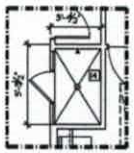
Main Floor Plan - Opt Kitchen



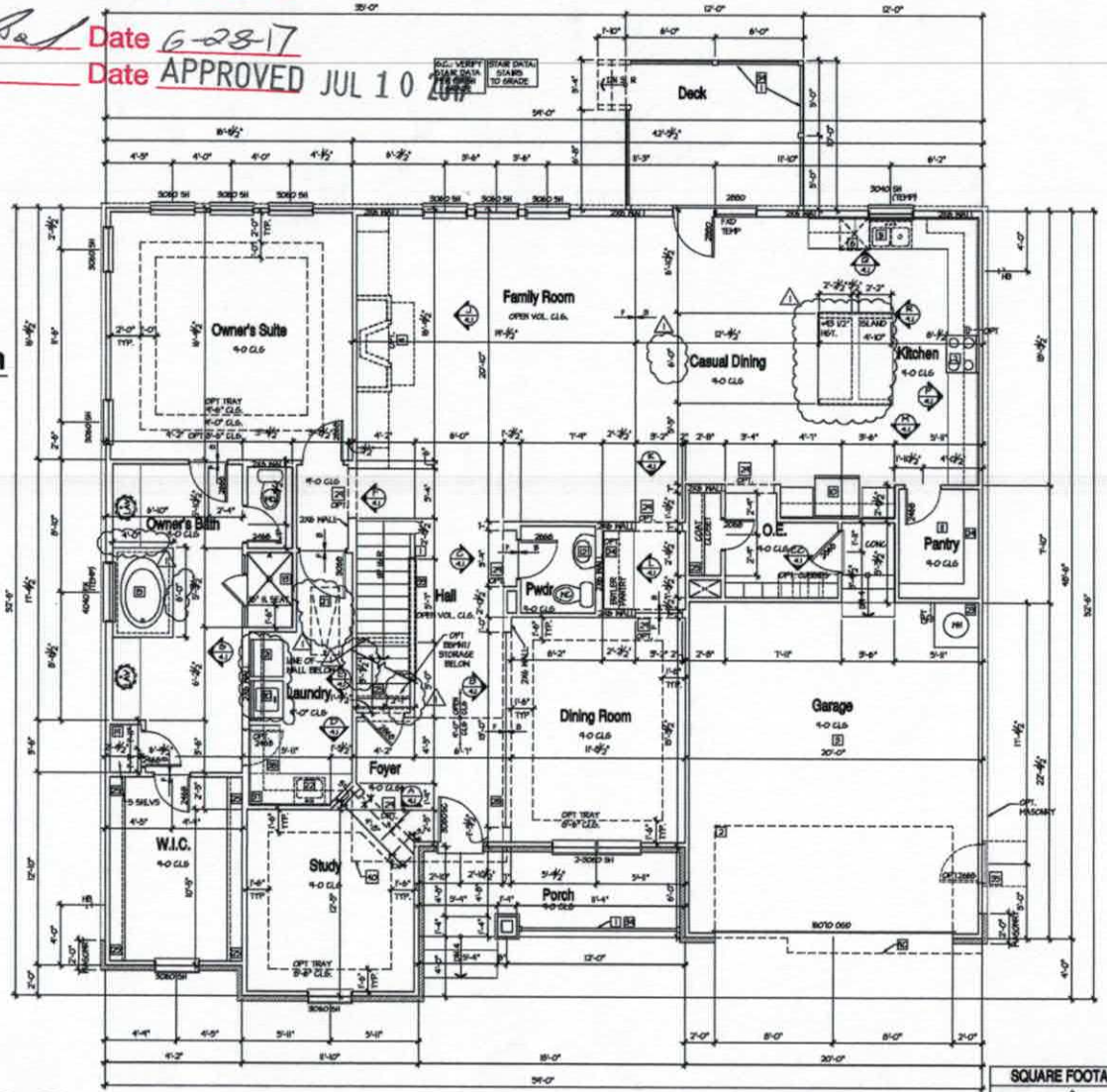
Main Floor Plan - Opt O.E.



Main Floor Plan
Opt Fireplace



Opt. Owner's Shower
Main Floor Plan



Main Floor Plan - C

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

SQUARE FOOTAGES	
MAIN FLOOR	2340
UPPER FLOOR	1471
SUBTOTAL	3811
FINISHED BASEMENT	1298
UNFINISHED BASEMENT	1070
GARAGE	418
PORCH	106
MEGE	00
OPT. EXTENDED DECK	301
OPT SCREEN PORCH	301
TOTAL	748

FLOOR PLAN NOTES:

SHEET CODE

1. SEE 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. 42" X 42" SHOWER
14. 42" X 60" SHOWER
15. 42" X 80" TUB 21" TO TOP OF DECKING
16. 60" X 60" SHOWER
17. 32" X 60" SHOWER
18. 32" X 60" 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.
24. 5 SHELVES PER BUILDER SPECS.
25. ATTIC ACCESS (22 X23"X30" U.N.O.)
26. ATTIC ACCESS W/ STAIRS (25 X72"X84 1/2" U.N.O.)
27. 2"x10" FLOOR JOISTS @ 16" O.C. W/ 5/8" T&G FLOOR & 1'-0" AT UPPER FLOOR U.N.O.
28. GYPSUM BOARD ARCH @ 11'-2" TO 8'-0".
30. GYPSUM BOARD LOW WALL, 30" A.F.F. (U.N.O.) W/ PDF 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 SCOOP.
36. 6x8 BEAM.
37. OPTIONAL UPPER CABINETS.
38. OPTIONAL CABINETS.
39. OPTIONAL COFFERED CEILING @ 8'-8" 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 DAVIS
46. LOW WALL 42" A.F.F.
47. GYPSUM BOARD ARCH @ 8'-0" TO 8'-6"
48. LOW WALL 32" A.F.F.
49. 30 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, G, 3, a.

D. WINDOWS:
A. ALL WINDOWS SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE IRC'S 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.
11'-0" A.F.F. @ 8'-1 1/8" PLATE HEIGHT (U.N.O.)
9'-0" A.F.F. @ 8'-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 RAGE DRAFT DAMPERED @ 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.

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

N. BRICK SILLS:
INSTALL PER LOCAL CODE.

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

ISSUE DATE: 01/17/2014
REVISIONS

Meritage Homes

Meritage Homes

BSB DESIGN

www.bsbdesign.com

JOB NO. 02.12029 PROJECT MGR.
DRAWN CHECKED JF-JG

MAIN FLOOR PLAN - C

259 - 3740

A2.1C

Bells Crossing Lot 184

IREDELL COUNTY

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

APPLICATION NUMBER
212214
Issue Date: 07/28/2015

ZONING PERMIT

Parcel Number	Street Address	Jurisdiction
4639834045.000	129 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	15.00	15.00	CACL	AE

Remarks:

PAID
0500631
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	44919	TOTAL FEES:	$ 77.25