IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 212198

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

PIN # 4639-82-6739

APPLICANT: BCSC APPLICANT ADDRESS: 2524 Reliance Ave. Apex

SITE ADDRESS: 138 Campanile Dr. Mooresville PHONE: 704-658-8614 ALT. PHONE:

SITE DIRECTIONS: Perth, TL Bells, TL S. San Agustine, TL Campanile, on R

SUBDIVISION: Bells Crossing SECTION: 4 LOT # 173 LOT AREA: 1.66 AC DESIGN FLOW: 600 L.T.A.R.: .3

Septic Tank	1250	(gal)	STB	338	Date	7-10-17	☑ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☑ Residence	No. Bedrooms	5	Water Supply	
Pump Tank	1250	(gal)	PT	477	Date		System Description:			PM -25% Reduction	☐ Business	No. Persons	10	☐ Private	
Pump Make			Model		Serial #		Repair System Description:			Panel Block	☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1		# Lines	5	Linear Ft:	500'	Maintenance Agreement Required:		☐ YES	☑ NO	☑ Slab	☐ Crawl Space		☑ Community	
Trench Width	36"		Max. Trench Bottom Depth	24" Lowside	Gravel Depth	—			☐ GRAVITY	☑ PRESSURE	☐ Basement w/plumbing			☐ Basement w/o plumbing	

Comments / Conditions: 3-10-17: Recommend pumping septic tank every 3-5 years. Though a 4-Bedroom house is being constructed (per the floor plan [dated 3-7-17] a 5 bedroom system must be installed per the design. -SS

INITIAL SITE SKETCH

SEE ATTACHED PLAN BY BCSC

SEE ALSO SUPPLY LINE PLAN APPROVED BY TRISH ANGOLI, PE

8/22/17 Checked tanks & lines. Could not find date on PT.

Off site septic on lot 173S - PIN# 4639-92-0477

AS BUILT SKETCH

PM TAP SIZES
LINE 1 = 1½" SCH 80
LINES 2-5 = 1½" SCH 40

8/23/17 Pump line (2" sch-40 pvc) installed per the improvement permit drawing (see next page) SS.

	Date	Initials
Drain Lines Checked	8/22/17	MD
Tanks Checked ST-OK	8/22/17	MD
Pressure Manifold or Valve Box Checked	8/24/17	SS
Pressure Head Set	10/9	BB
Electrical Checked	✓	✓
Floats Set	✓	✓
Alarm Checked	✓	✓
~~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: [signature] Date: 11-18-16 Installed by: BCSC - Andrew Carson

IMPROVEMENT PERMIT by: [signature] Date: 11-9-16 OPERATION PERMIT by: Benjamin A. Bittner Date: 10/9/2017

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 3/10/17 Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK

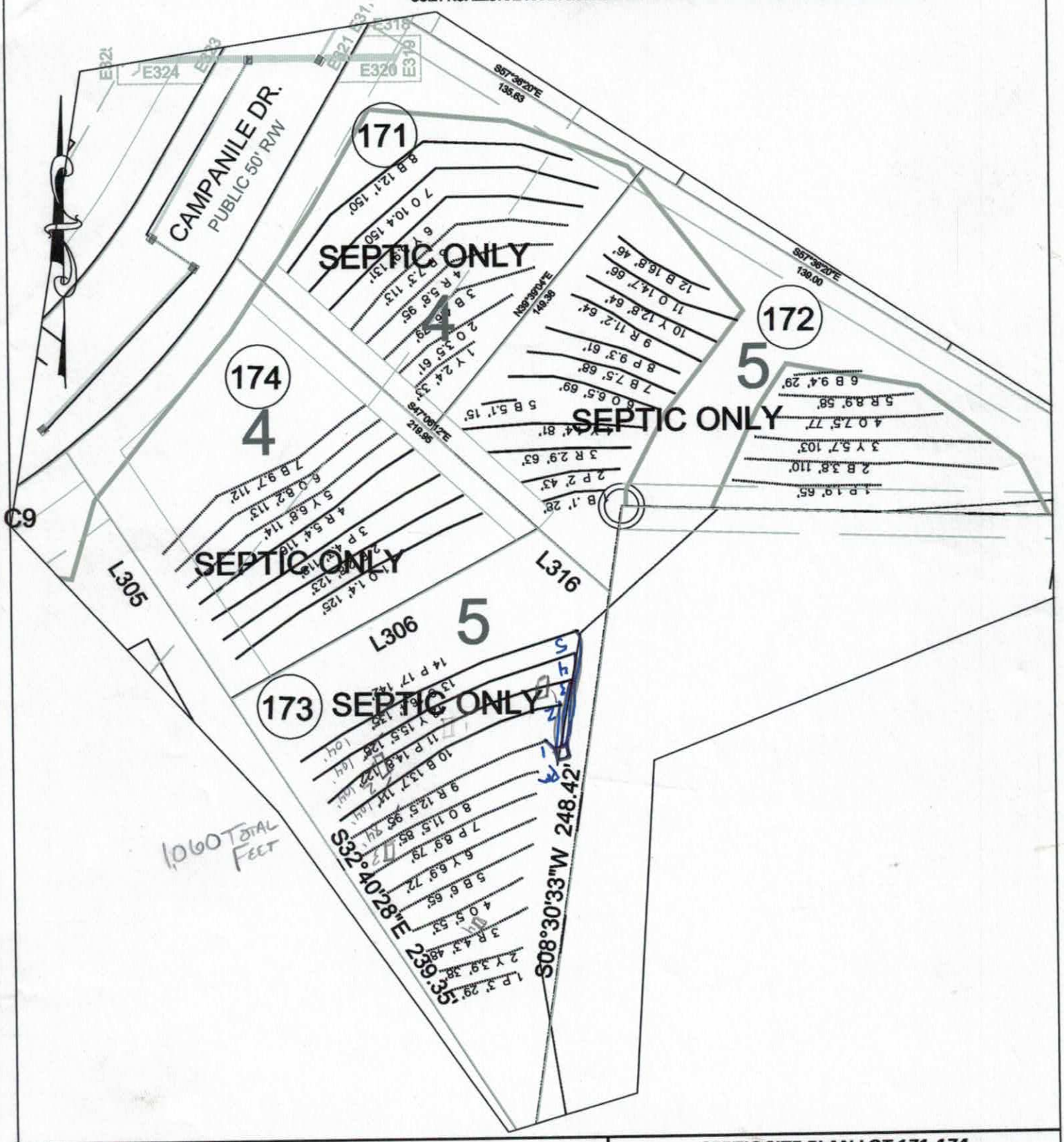
LEGEND

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

0 30 60

SCALE:
1" = 60 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



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 171-174
BELLS CROSSING SUBDIVISION

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

LEGEND

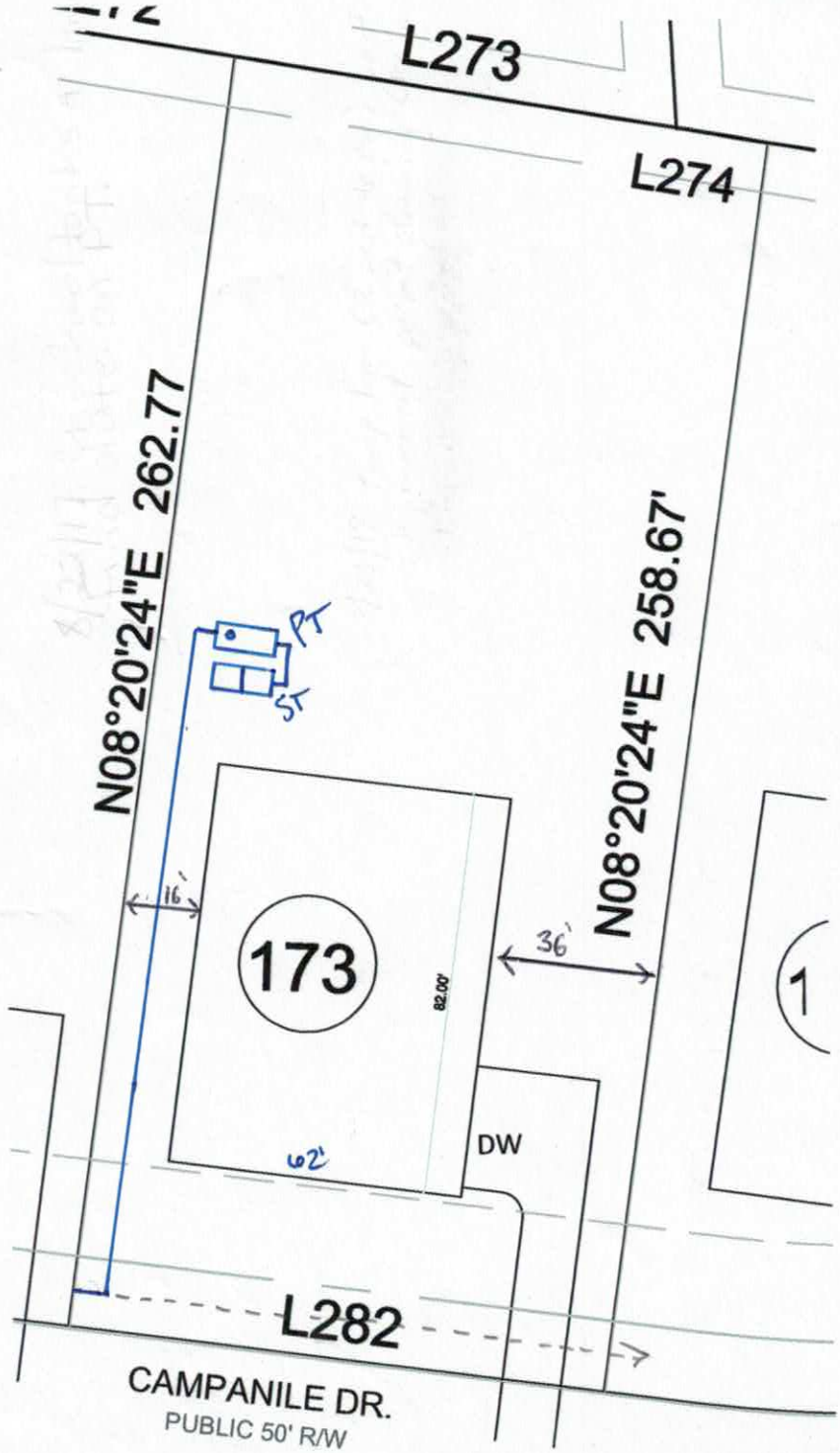
PO = PORCH
SP = SCREENED PORCH
CP = COVERED PORCH
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY

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.
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APPROVED NOV 0 9 2016
BA



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www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378

SEPTIC SITE PLAN LOT 173
BELLS CROSSING SUBDIVISION

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

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

BELLS 173

PROPERTY ID #: 4639-82-6739
DATE OF EVALUATION:
COUNTY: IREDELL

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	173	0-25	CMABK	SS					.3
		25-54	CLMSBK	SS					
2	173	0-58	CMABK	SS					.3
3	173	0-26	CSABK	SS					.3
		26-37	CMABK	SS					
		37-54	CLMSBK	SS MANY SAP					
4	173	0-19	CSABK	SS					.3
		19-39	CMSBK	SS					
		39-58	CLMSBK	SS FEW SAP					

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 Lots 171, 172, 173, 174, and 179
Iredell County, NC

Dear Mr. Shuck:

We have reviewed revised plans and specifications for the supply lines serving Bells Crossing Lots 171, 172, 173, 174, and 179 received from Brian Kraynak, PE, Bateman Civil Survey Company, PA.

The revised supply line designs are approved for the above listed lots.

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 173
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 #: 120314.173



08/19/2016

8-19-2016

Bells Crossing PH 4 S/D Lot 173

Table of Contents

Contact Information	1
Specifications (system)	2
Tap Chart (system)	3
Control Panel Specifications	4
Pump Specifications	6
Effuent Filter Specifications	8
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 173

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 173

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:	805	ft
Supply Line Diameter:	2	in sch 40pvc
Supply Line Volume:	140.07	gallons
Friction Loss + Fitting Loss:	15.19	ft(supply line length +25% for fittings)
Design Head:	2	ft
Elevation Head:	54.90	ft
Total Head:	72.09	ft
Dose Volume:	195.24	gals
% of Pipe Vol.	.75	
Drawdown:	8.96	in @ 21.8 gal/in
Pump Run Time:	7.13	Minutes
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:	1250	gallon Shoaf
Pump Tank:	1250	gallon Shoaf

RECEIVED MAR 9 - 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:
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:

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Meritage Homes of the Carolinas, Inc	13925 Ballantyne Corporate Pl #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
138 Campanile Court	Bells Crossing	Lot 173 PH.4

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 4
Maximum Number of Occupants 8
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
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

3/8/17
DATE

RECEIVED APR 29 2016

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

NP OK

(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 $350.09

1. **APPLICATION FOR:** ✓ **Improvement Permit** ___ **Authorization To Construct** ___ **Existing System Inspection**

****

212198 Paid $850 11-18-1

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 28539		704-658-8666
Applicant Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**
Heritage Homes	11605 N Community House Rd #250 Charlotte NC 28217		
Owner Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**

****

4. **Property Information:**

138 Campanile Dr.	Bells Crossing	4 / 173
Street Address	**Subdivision Name**	**Section/Phase and Lot Number**

Driving Directions: 150 W, R on Perth, L into Bells Crossing, L on San Agustine Pass Ph.3 (Abbeville) L onto 3rd Lot on the Right

****

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

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(X) Repair To Failing Septic System due to _____
( ) 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)*** ( ) **EXISTING SYSTEM installed** _____ *Year*

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

8. **Please Answer The Following** ( ) Yes (✓) No **Does the site contain any jurisdictional wetlands?**
   To The Best of Your Ability: ( ) 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:** _____ 4-27-16
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 173, 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 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: _____ 3/8/17
***REQUIRED* property owner or owner's legal representative signature.** **DATE**

USE THIS SPACE TO DRAW YOUR SITE PLAN

Please See Attached Plot Plan and IP Documents Attached

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*:

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

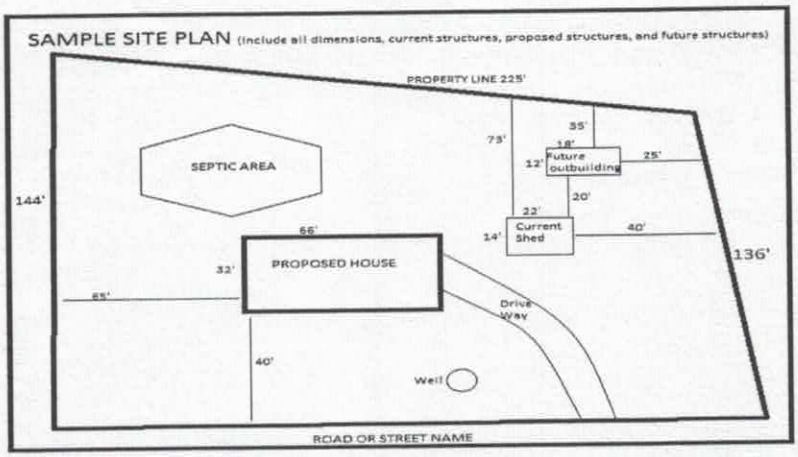
__X__ Front and side setbacks from property line… **__X__ Preferred driveway location and configuration, preferred well location…**

__X__ Area you prefer your septic system to be placed… **____ 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**

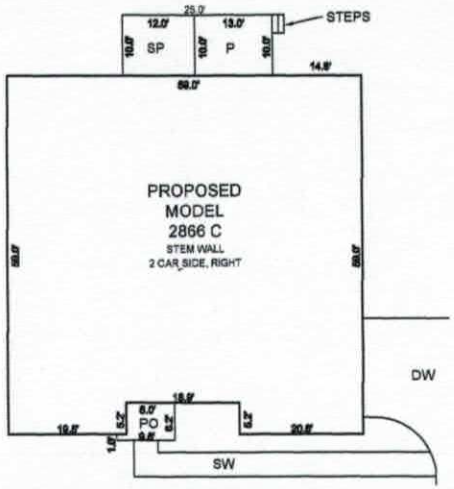


USE THIS SPACE TO DRAW YOUR SITE PLAN

See Attached

Signature: [signature] 4-27-16

REQUIRED **property owner or owner's legal representative signature.** **DATE**



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' UTILITY/STORM EASEMENT ALONG LOT LINES.
11. PROPERTY OWNER: MERITAGE HOMES OF THE CAROLINAS INC.
    13925 BALLANTYNE CORPORATE PLACE
    SUITE 300
    CHARLOTTE, NC 28277

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.

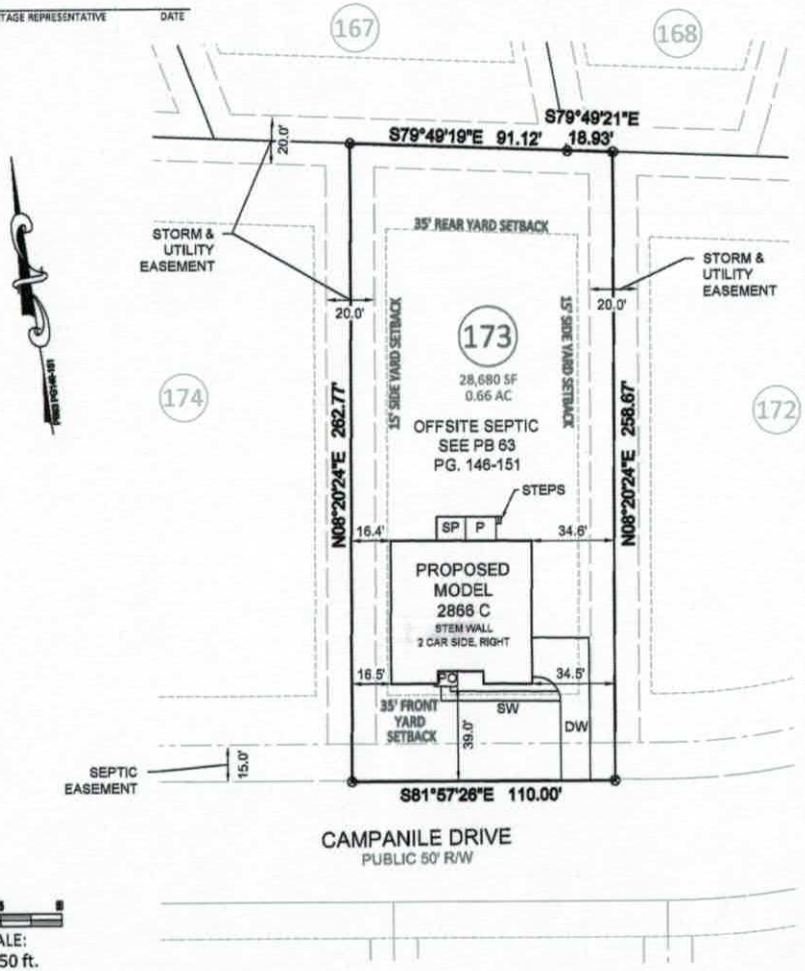
CUSTOMER _____ DATE

CUSTOMER _____ DATE

MERITAGE REPRESENTATIVE _____ DATE

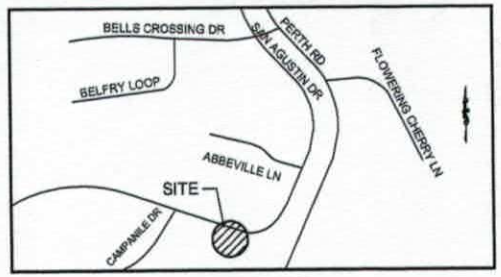
LOT INFORMATION:

PIN: 4639826739
HOUSE = 3,383 SF
PORCH = 51 SF
SIDEWALK = 207 SF
DRIVEWAY = 952 SF
SCREENED PORCH = 120 SF
PATIO = 130 SF
TOTAL LOT AREA = 0.66 AC = 28,680 SF
PROPOSED IMPERVIOUS = 4,843 SF
PERCENT IMPERVIOUS = 16.9 %



SCALE:
1" = 50 ft.

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
O = IRON PIPE FOUND
◉ = IRON PIPE SET
● = DRILL HOLE FOUND
WM = WATER METER
CO = 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

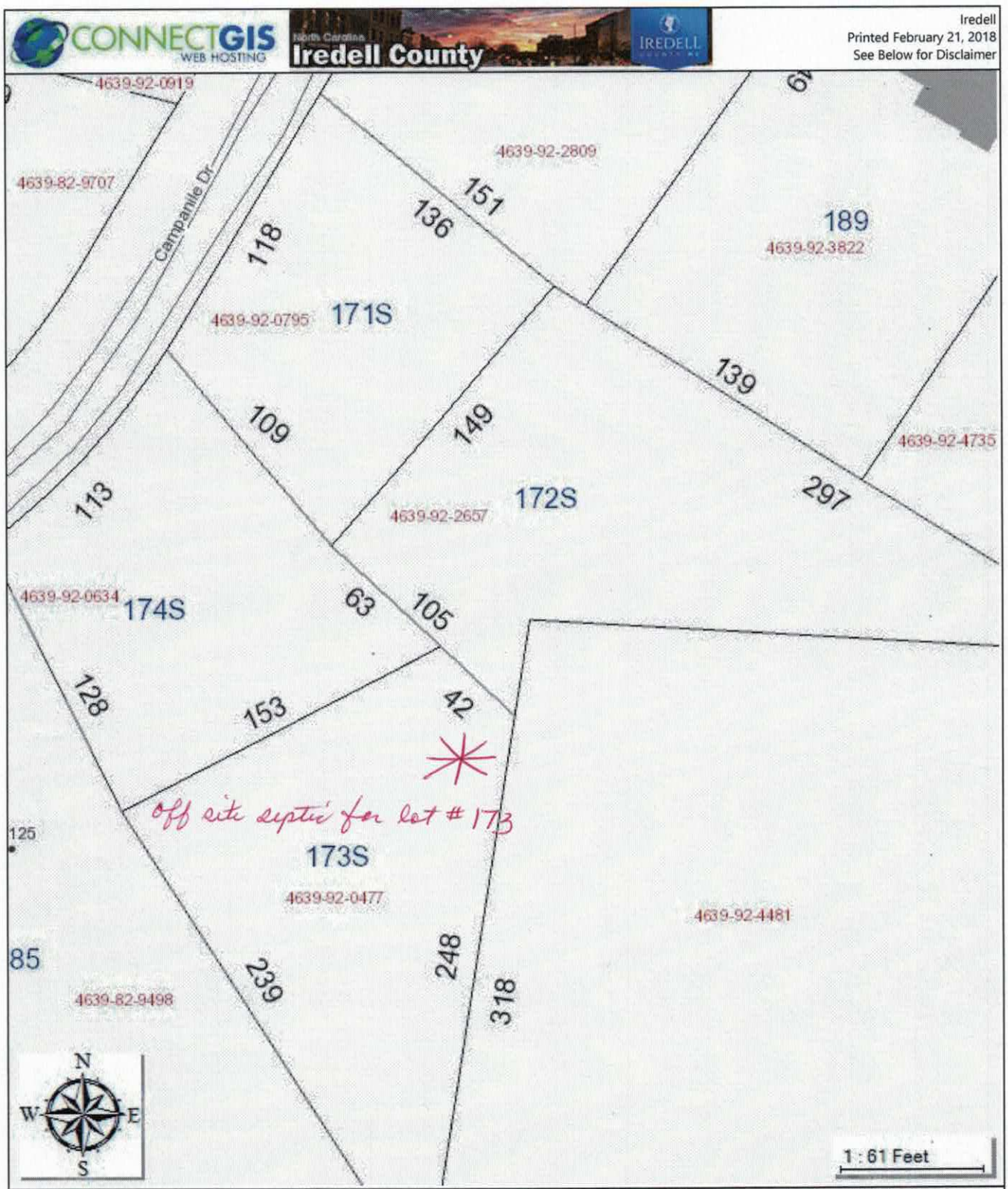
MeritageHomes

BELLS CROSSING - PHASE FOUR - LOT 173
138 CAMPANILE COURT, MOORESVILLE, NC
DAVIDSON TOWNSHIP, IREDELL COUNTY

DATE: 2/28/17 DRAWN BY: DMH CHECKED BY: SPC

REF: PB 63, PGS. 146-151 BCS# 120314 SCALE: 1" = 50'

I:\BCS-BELLS-PH-FOUR\Base\Plot\Layouts\120314 Bells Plot Plat MLS.dwg 2/7/2017 11:17:53 AM dsmiler

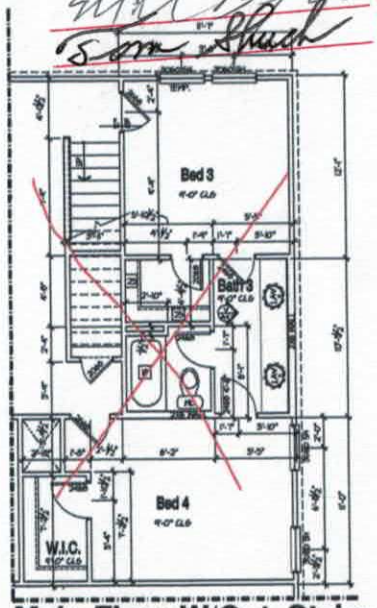


The maps prepared for this website are generated from recorded deeds, plats, and other public records. Users of these maps are hereby notified that the information provided herein should be verified. Iredell County assumes no legal responsibilities for any of the information contained on this site. Users are advised that the use of any of this information is at their own risk. All maps on this site were prepared using a 1000â€™ Grid based upon the North Carolina State Plane Coordinate System from the 1983 North American Datum. The delinquent real property tax overlay is updated monthly. The information presented is not intended to be used or relied upon as official notice of tax liens. For additional information regarding delinquent taxes, contact the Iredell County Tax Collector's Office.

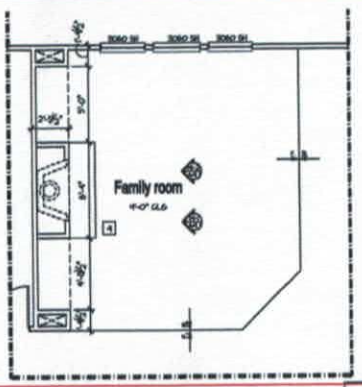
Acknowledgement of
Plans Submittal ONLY!

Date 3-9-17

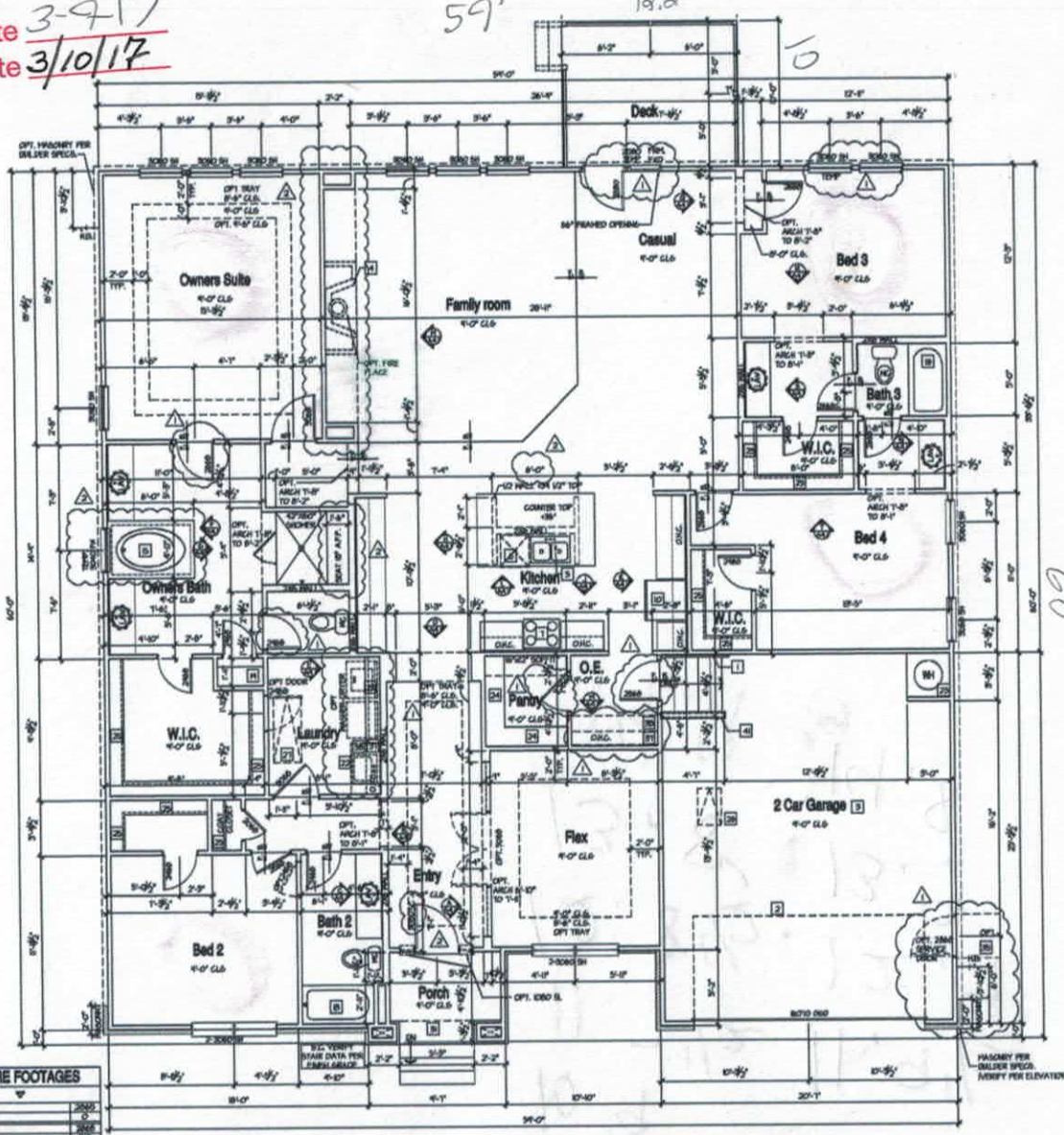
Date 3/10/17



Main Floor W/Opt. Stairs



Opt. Fireplace



Main Floor Plan - C

SQUARE FOOTAGES	
MAIN FLOOR	2640
UPPER FLOOR	0
SUBTOTAL	2640
GARAGE	510
PORCH	96
TOTAL	3426
COVERED BASEMENT	1320
FINISHED BASEMENT	1320
OPT SCREENED PORCH	120
OPT BONUS ROOM	0

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

FLOOR PLAN NOTES:

(MAIN 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/HANDRAILS ARE TO BE AT A 34" MINIMUM TO 38" MAXIMUM HEIGHT A.F.F. FOR STAIRS AND 36" MINIMUM OR HORIZONTAL SURFACE BARRIER.
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. PREP/BAR SINK
13. SHOWER (SIZE AS NOTED)
14. TUB
15. 42" X 60" TUB 20" TO TOP OF DECARB
16. 60" X 60" SHOWER
17. 30" 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 18" ABOVE GARAGE FLOOR FOR WATER HEATER.
24. 5 SHELVES PER BUILDER SPECS.
25. ATTIC ACCESS (22 1/2"x30" MIN.).
26. ATTIC ACCESS (if stairs) (25 1/2"x54 1/2".)
27. GYPSUM BOARD SOFFIT @ 9'-0" AT TYP. FLOOR & 7'-0" AT UPPER FLOOR (U.N.O.)
28. GYPSUM BOARD AREA @ 11'-2" TO 8'-0".
29. GYPSUM BOARD LOW WALL, 36" A.F.F. (U.N.O.) W/ POP CAP.
30. SOFFIT, REFER TO EXTERIOR ELEVATIONS FOR HEIGHTS & ARCHITECTURAL DETAILS FOR FINISH.
31. PLANT SHELF, SEE EXTERIOR ELEVATIONS.
32. HALF WALL W/ WOOD CAP OR OPTIONAL LOW WALL WITH RAILING ABOVE.
33. PORCH RAIL, SEE ELEVATION.
34. 36"x36" CONCRETE STOOP.
35. 6x6 BEAM.
36. OPTIONAL UPPER CABINETS.
37. OPTIONAL CABINETS.
38. 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 CHUTE
46. LOW WALL 10'8" A.F.F.
47. GYPSUM BOARD AREA @ 9'-0" TO 8'-0"
48. LOW WALL 30" A.F.F.
49. 90 HARD LATCH OR LOCKING KNOB

TYPICAL CONSTRUCTION ASSEMBLIES:

A. TYPICAL ROOF CONSTRUCTION:
ASPHALT ROOF SHINGLES

B. TYPICAL FRAME FLOOR CONSTRUCTION:
FINISH FLOOR ON 3/4" T&G OSB SUBFLOOR & 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 IV, G, 3, a.

D. HEDGING:
A. ALL HEDGING SHALL COMPLY WITH MINIMUM STANDARDS OUTLINED IN APPLICABLE RES. CODES.
B. HEDGING SUPPLIER TO VERIFY AT LEAST ONE HEDGING 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 HEDGING 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 & PIPING ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS. CONTRACTOR TO VERIFY.

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

G. SMOKE SIGNAL:
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 SOLDIER:
INSTALL PER LOCAL CODE.

MASONRY PER BUILDER SPECS. VERIFY PER ELEVATION

5400 Trinity Road
Suite 107
Raleigh,
North Carolina 27607
919-322-2265 Phone

Meritage Homes

Meritage Homes

BSB DESIGN

MAIN FLOOR PLAN - C

159-2866

A2.1C

Bells Crossing Lot 173

IREDELL COUNTY

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

APPLICATION NUMBER
212198
Issue Date: 07/28/2015

ZONING PERMIT

Parcel Number	Street Address	Jurisdiction
4639834045.000	138 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 SUT 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

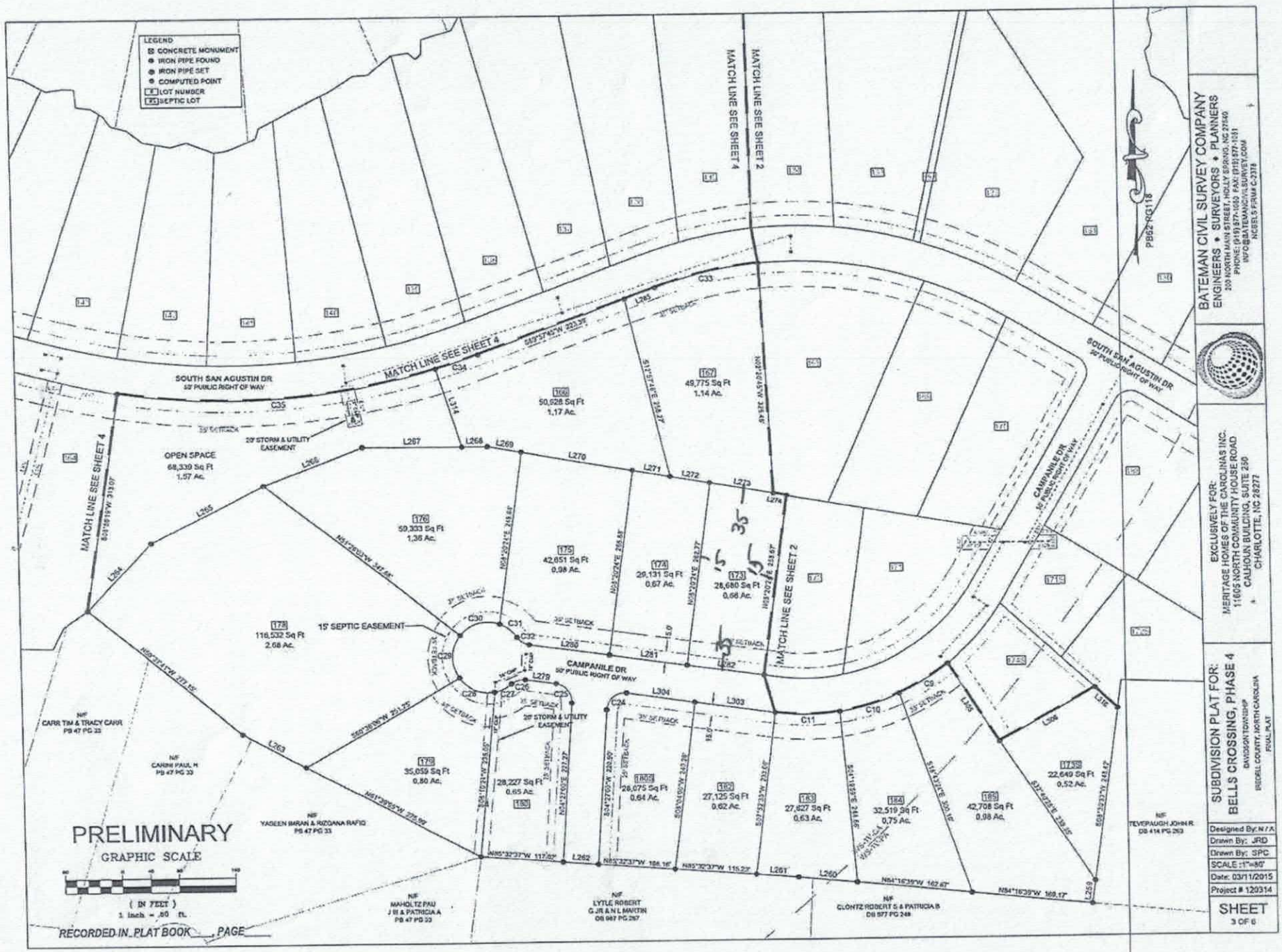
Remarks:

PAID
✓ 1050628
8-18-15

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	44909	TOTAL FEES:	$ 77.25


LEGEND
CONCRETE MONUMENT
IRON PIPE FOUND
IRON PIPE SET
COMPUTED POINT
LOT NUMBER
SEPTIC LOT
MATCH LINE SEE SHEET 4
MATCH LINE SEE SHEET 2
SOUTH SAN AGUSTIN DR
50' PUBLIC RIGHT OF WAY
OPEN SPACE
68,339 Sq Ft
1.57 Ac.
15' SEPTIC EASEMENT
20' STORM & UTILITY EASEMENT
CAMPANILE DR
50' PUBLIC RIGHT OF WAY
PB62-RQ118
PRELIMINARY
GRAPHIC SCALE
(IN FEET)
1 inch = 80 ft.
RECORDED IN PLAT BOOK ____ PAGE ____
BATEMAN CIVIL SURVEY COMPANY
ENGINEERS • SURVEYORS • PLANNERS
EXCLUSIVELY FOR:
MERITAGE HOMES OF THE CAROLINAS INC.
11605 NORTH COMMUNITY HOUSE ROAD
CAHOUN BUILDING, SUITE 250
CHARLOTTE, NC 28277
SUBDIVISION PLAT FOR:
BELLS CROSSING, PHASE 4
DAVIDSON TOWNSHIP
IREDELL COUNTY, NORTH CAROLINA
FINAL PLAT
Designed By: N / A
Drawn By: JRD
Drawn By: SPC
SCALE :1"=80'
Date: 03/11/2015
Project # 120314
SHEET
3 OF 6