PRESSURE MANIFOLD DISTRIBUTION
FOR INNOVATIVE WASTEWATER SYSTEM

Applicant:	CHM Homes, Inc.
Address:	1124 Charlotte Hwy Troutman, NC 28166
Phone:	704.883.6148
County:	Iredell
Location:	126 Brasington Lane

Source of Wastewater Flow:	3 Bedroom Single Family Residence	
Estimated Daily Wastewater Production:	360 gpd	
System Flow:	26.81	gpm

Design Specifications

Drainfield Size:	360	lf
Loading Rate:	0.3	gpd/ft
Depth of Gravel in Trench:	NA (25% reduction)	
Gravel Size:	NA (25% reduction)	
Trench Depth:	24 in	
Trench Width:	36 in.	
Septic Tank Size:	1000	gal
Pump Tank Size:	1000	gal
Estimated Supply Line Length:	300	ft
Supply Line Diameter:	2 in. SCH 40 PVC	
Supply Line Volume:	52.20	gal
Dosing Volume:	137.13	gal
Supply Manifold:	4" Sch80 PVC	
Supply Manifold Length:	3.5' (min)	
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents	
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.	
Pressure Head:	2 ft	
Friction Head:	4.35	ft
Elevation Head:	33.00	ft
Total Dynamic Head:	45.25	ft
Threaded Union:	In tank	
Gate Valves:	1 in tank 1 in manifold	
Check Valves:	in tank	
Anti-Siphon Hole:	N/A	
Additional Comments:	Soil suitability was performed by S&FS	

126 Brasington Lane

INNOVATIVE PRESSURE MANIFOLD DISTRIBUTION DESIGN

DESIGN FLOW:	360	gpd
SOIL APPLICATION RATE:	0.3	gpd/ft
TOTAL AREA TRENCH BOTTOM:	900	sqft
TOTAL LATERAL LENGTH:	300	ft
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	300	ft
SUPPLY LINE LENGTH:	300	ft
TOTAL DYNAMIC HEAD:	45.25	ft
MANIFOLD SIZE:	4" Sch80	
DOSING VOLUME:	137.13	
PUMP TANK DRAW DOWN*:	6.5	inches
SEPTIC TANK SIZE:	1000	gal
PUMP TANK SIZE:	1000	gal

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

126 Brasington Lane

LAYOUT FOR 3 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LENGTH	DESIGN LENGTH
TBM		3.0			100.00		
INSTR. 1			103.00				
HOUSE CNR				23.40	76.60		
P. TANK				22.80	76.00		
			SYSTEM				
1	*Pink*			*1.20*	*104.20*	*22*	*0*
2	*Red*			*2.00*	*103.40*	*32*	*32*
3	*Orange*			*2.60*	*102.80*	*48*	*48*
4	*Yellow*			*3.20*	*102.20*	*60*	*60*
5	*Blue*			*4.10*	*101.30*	*88*	*80*
6	*Pink*	*2.7*		*5.10*	*100.30*	*113*	*80*
			REPAIR				
			3600 sq ft 18"+ soils				

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	TRENCH SYSTEM	DISTRIBUTION
SYSTEM	*300*	*0.3*	*INNOV*	*CHAMBER*	*MANIFOLD*
Repair	3600sf	0.1	ALT	DRIP	DRIP

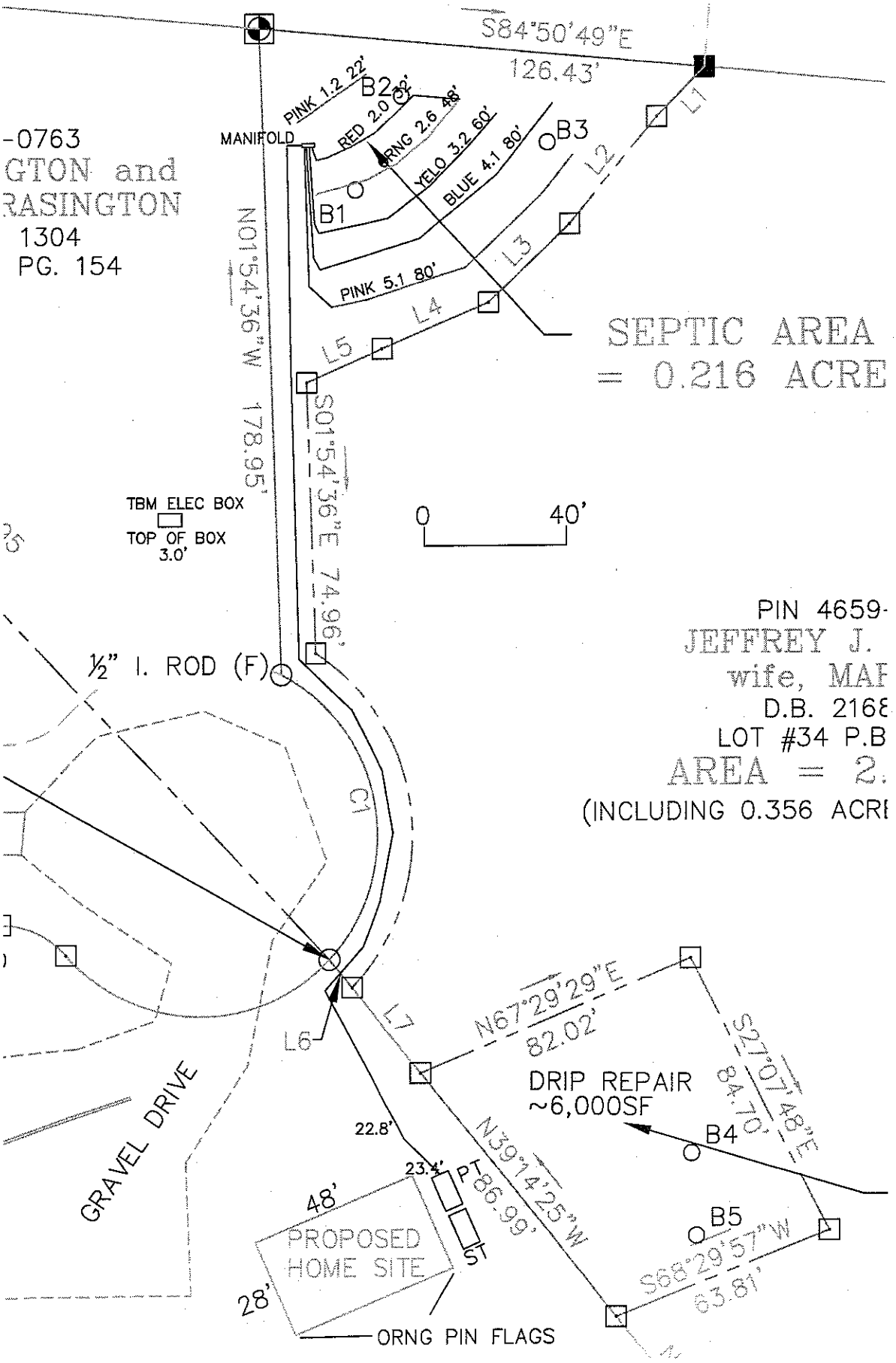
Notes: ** TBM located top of ground @ elec box
**TBM assumed at 100'
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

PRESSURE MANIFOLD TAPSHEET - 126 Brasington Lane

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
2+3	R+O	103.4/102.8	80	SCH 40 1/2	**7.11**	240	0.15
4	Yellow	102.2	60	SCH 80 1/2	**5.48**	180	0.16
5	Blue	101.3	80	SCH 40 1/2	**7.11**	240	0.15
6	Pink	100.3	80	SCH 40 1/2	**7.11**	240	0.15
	total	**feet =**	**300**	**gal/min =**	**26.81**		

Des. Flow	**360**
Pump Run=	**5.11**
soil LTAR	**0.3**
LTAR +5%	**0.32**
LTAR with INNOV	**0.40**
LTAR with INNOV + 5%	**0.42**


-0763
GTON and
RASINGTON
1304
PG. 154
S84°50'49"E
126.43'
PINK 1.2 22'
B2
RED 2.0 28'
ORNG 2.6 48'
YELO 3.2 60'
BLUE 4.1 80'
B3
MANIFOLD
B1
PINK 5.1 80'
L1
L2
L3
L4
L5
N01°54'36"W 178.95'
SEPTIC AREA
= 0.216 ACRE
S01°54'36"E 74.96'
TBM ELEC BOX
TOP OF BOX
3.0'
0
40'
PIN 4659-
JEFFREY J.
wife, MAI
D.B. 216
LOT #34 P.B
AREA = 2.
(INCLUDING 0.356 ACRI
½" I. ROD (F)
C1
L6
L7
N67°29'29"E
82.02'
S37°07'48"E
84.70'
DRIP REPAIR
~6,000SF
B4
22.8'
23.4'
PT
N39°14'25"W
86.99'
B5
S68°29'57"W
63.81'
48'
PROPOSED
HOME SITE
ST
28'
ORNG PIN FLAGS
GRAVEL DRIVE

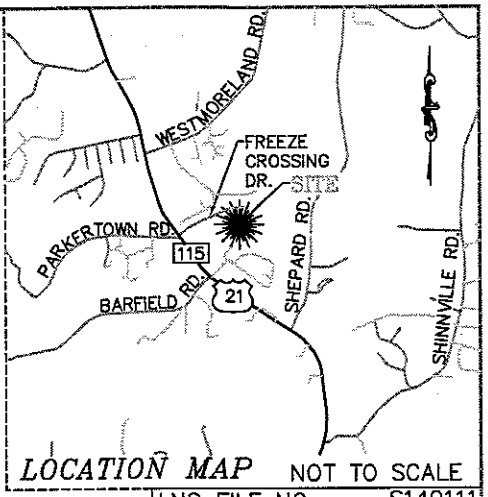
STATE OF NORTH CAROLINA
IREDELL COUNTY

I certify that this map was drawn from an actual survey made under my supervision The unadjusted ratio of precision as calculated is 1': 10,000±. Boundaries not surveyed, if any, are noted. Deed descriptions are recorded in Book, as Page shown .Witness my hand and seal this 3rd day of MARCH, 2014.

"PRELIMINARY PLAT"

NOT FOR RECORDATION, CONVEYANCES, OR SALES

Professional Land Surveyor
L-3703



LOCATION MAP NOT TO SCALE

NOTES:
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- AREA BY COORDINATE COMPUTATION.
- PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.
- SURVEY IS BASED ON PHYSICAL EVIDENCE AND EXISTING MONUMENT FOUND DURING THE SURVEY.
- PROPERTY CORNER PIPE SIZES AS SHOWN ARE NOMINAL INSIDE DIAMETER.

LNS FILE NO.:	S140111
DWG NO.:	S140111REV2
SURVEYED BY:	J.G. JAYNES
DRAWN BY:	N.D. WHITLEY
CHECKED BY:	J.R. HOBBS

NC GRID
NAD 83(2011)
GPS OBSERVATION (VRS)
JANUARY 27, 2014

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD DIR.	CHORD
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C2	106.63'	60.00'	101°49'18"	S06°18'45"E	93.14'
C3	154.76'	240.00'	36°56'46"	S70°55'16"E	152.09'
C4	21.03'	25.00'	48°11'50"	S65°17'44"E	20.42'
C5	83.29'	50.00'	95°26'36"	S88°55'07"E	73.99'

PIN 4659-54-1918
LOUIS N. TOMMASELLI
D.B. 836 PG. 24
LOT #18-20 P.B. 22 PG. 166

PIN 4659-54-4911
SC HONDROS & ASSOCIATES INC.
D.B. 2205 PG. 2273
LOT #17 P.B. 22 PG. 166

S84°53'33"E
312.48'-(NTS)

MAG NAIL (F) IN ℄ INTERSECTION FREEZE CROSSING DR. AND BRASINGTON LN.
N 695054.51 FT
E 1454744.28 FT
NAD 83(2011)

S84°50'49"E
126.43'

S84°50'49"E
200.01'

PIN 4659-54-0763
MILLARD BRASINGTON and wife, NINA E. BRASINGTON
D.B. 1069 PG. 1304
LOT #33 P.B. 32 PG. 154

MANIFOLD
PINK 1.2 GPH
B2
SEED 2.0 GPH
ORNG 2.8 GPH
YELO 3.2 GPH
BLUE 4.1 GPH
B3
B1
PINK 5.1 GPH
L1
L2
L3
L4
L5

SEPTIC AREA
= 0.216 ACRE

N01°54'36"W
178.96'

S01°54'36"E
74.96'

PIN 4659-54-9704
BUDDY G. SCOTT
W.B. 09E PG. 1093
D.B. 1150 PG. 758

CGF = 0.999980395
S43°41'01"E
664.81'-(NTS)

TBM ELEC BOX
TOP OF BOX
3.0'

BRASINGTON LN.
(50' R/W)

NAIL (S) AT BENT
½" I. ROD (F)
N 694573.81 FT
E 1455203.38 FT
NAD 83(2011)

½" I. ROD (F)

PIN 4659-54-3652
JEFFREY J. MATTIS and wife, MARY MATTIS
D.B. 2168 PG. 663
LOT #34 P.B. 32 PG. 154
AREA = 2.396 ACRES
(INCLUDING 0.356 ACRE IN SEPTIC EASEMENT)

S04°03'26"W
324.84'

L6
L7
L8

PROPOSED WELL

N67°28'29"E
82.02'

S27°07'48"E
64.70'

DRIP REPAIR
~6,000SF
B4

METAL BUILDING

GRAVEL DRIVE

22.8'
23.1'
PT
45'
PROPOSED HOME SITE
28
55.9'
5'

N39°14'25"W
55.98'

B5
S68°29'57"W
63.91'

AREA IN SEPTIC REPAIR AREA = 0.140 ACRE

LEAN-TO

ORNG PIN FLAGS

N39°14'25"W
75.02'

S68°01'21"W
183.79'

PIN 4659-44-8448
DALTON SMALLWOOD and wife, DONNA L. SMALLWOOD
D.B. 1780 PG. 457
REMAINDER OF LOT #22 P.B. 22 PG. 166

N25°55'04"W
301.37'

PIN 4659-54-1456
JEFFREY J. MATTIS and wife, MARY MATTIS
D.B. 2168 PG. 663
LOT #35 P.B. 32 PG. 154
AREA = 1.111 ACRES

S77°40'55"W
251.43'

PIN 4659-43-9951
ROBERT F. BUSBY
D.B. 1036 PG. 1773

LINE TABLE		
LINE	BEARING	DIST.
L1	S44°31'43"W	19.18
L2	S39°55'34"W	38.46
L3	S01°54'36"E	74.96'
L4	S01°54'36"E	178.96'
L5	S01°54'36"E	74.96'
L6	S44°31'43"W	19.18
L7	S39°55'34"W	38.46

LEGEND

- LINES SURVEYED
- LINES NOT SURVEYED
- TIE LINES
- R/W LIMITS
- ■ #4 REBAR (F)
- ⊡ #4 REBAR (S)
- ▲ #5 REBAR (F)
- CONCRETE MONUMENT (F)
- ○ NO MONUMENTATION UNLESS OTHERWISE

CALCULATIONS

Location 126 Brasington Lane

Lot No:	35	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.30	$^{gpd/ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	300	ft.
Supply Line Volume	52.2	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	26.81	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	gal.
Lateral Line Volume	195.9	gal.
Dosing Volume	137.13	gal.

Note: Dosing Volume based on70% of lateral line volume

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
21.33	0.95
25	1.27
26.8	1.45
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Tank Draw Down	6.5	inches *(Generic Draw Down of 21 gal.per in.)*
Pump Run Time	5.11	minutes
Elevation Head	33	ft.
Pressure Head	2	ft.
Friction Factor	1.45	ft./100 ft. *(From the interpolater.)*
Friction Head	4.35	ft.
Total Dynamic Head (+15%)	45.25	ft.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 465954 1456
COUNTY: BERKS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JEFFREY & MARY MATTIS — APPLICATION DATE:
ADDRESS: ZIONSVILLE, PA 18092 — DATE EVALUATED: 2/11/14
PROPOSED FACILITY: 3 BR — PROPOSED DESIGN FLOW (.1949): 360 — PROPERTY SIZE: 1.1
LOCATION OF SITE: 126 BRASSINGTON LANE — PROPERTY RECORDED:
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
B1	L/6%	0-2	B CL GR	FR SS SP	N/A	43	PS		PS .3
		2-43	R C WMSBK	FR SS SP SAP INF @ 30					
		43-48	R SL SAP MASS	FR NS NP					
2	L/6%	0-3	B CL GR	FR SS SP	N/A	48	N/A		S .3
		3-30	R C WMSBK	FR SS SP					
		30-48	R CL WMSBK	FR SS SP					
3	L/6%	0-5	RBC WMA/S	F SS P	N/A	48	N/A		S .3
		5-30	R C WMSBK	FR SS P					
		30-48	R CL WFSBK	FR SS SP FEW STP					
4	L/15%	0-15	B SL/SCL GR	FR SS SP	2.5Y 7/2 @ 31	35+	N/A		AT GRADE .25
		15-24	YB SCL WMSBK	FR SS SP					
		24-28	BR SC WMSBK	FR SS SP					
		28-31	BR C WMSBK	FI S SP					
		31-35	BR/YR C WMSBK	FI SS P FEW FE CIED					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	300	3600 SF
System Type(s)	IN NOV 25%	DRIP
Site LTAR	0.3	.1

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

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4659341456
DATE OF EVALUATION: 2/11/14
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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	L/14%	0-12	B SL GR	FR NS NP	2.5Y 7/2 C22	22+	N/A		DRIP .1
		12-22	YB SC WMSBK	FR SS SP					
		22+	RB SC WMSBK	FR SS SP					

Extreme III

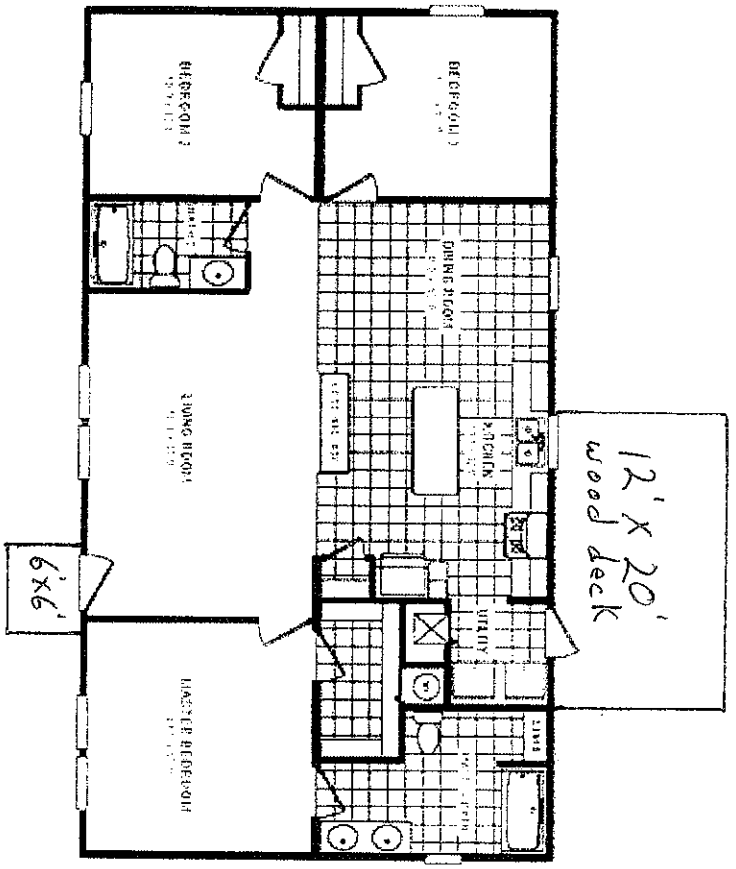
FREEDOM HOMES

1124 CHARLOTTE HWY · TROUTMAN , NC
Monday - Friday 9 - 6, Saturday 9 - 5
(704) 528-7960



Floor plan number : ROC725259NCABM

3 Beds 2 Bath 1344 sq. ft. 48' width 28' depth



All rights reserved.

Paid $350.00 Statesville 2-20-14
Paid $500.00 3-14-14

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: ERIC WARD/FREEDOM HOMES (JEFF ?) Address: 1124 Charlotte Hwy Phone: 704-528-7960

Owner Name: MARY MATTIS Address: 6366 Tollgate Rd ZIONVILLE, PA Phone: 908-546-8779

Property Information:

Street Address: LOT 126 35 Brasington Ln. Mooresville, NC 28115

Subdivision Name: Freeze crossing Section/Phase: _____ Lot Number: 35

Driving Directions: HWY 115 TOWARDS MOORESVILLE LEFT ON FREEZE CROSSING then right on Brasington Lot at end on Right

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: 3
Maximum Number of Occupants: 6
( ) 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: Eric Ward 2-6-14
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY

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

APPLICATION NUMBER
201607
Issue Date: 02/06/2014

ZONING PERMIT

Open Space

Parcel Number	Street Address	Jurisdiction
4659541456.000	126 BRASINGTON LANE, MOORESVILLE, NC 28115	MOORESVILLE

Owner Information	Applicant Information
Owner: MATTIS JEFFREY J+MARY	Applicant: CMH HOMES INC
Address: 6366 TOLLGATE RD ZOONSVILLE, PA 18092	Address: 1124 CHARLOTTE HWY TROUTMAN, NC 28166
Phone:	Phone:

Use Requested	Zone Code
double wide	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
1.112	35.00	35.00	15.00	15.00	NOT	X

Remarks:

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: Eric Wall Date: 2-17-14

Permit Number	6016	TOTAL FEES:	$ 77.25

STATE OF NORTH CAROLINA
IREDELL COUNTY

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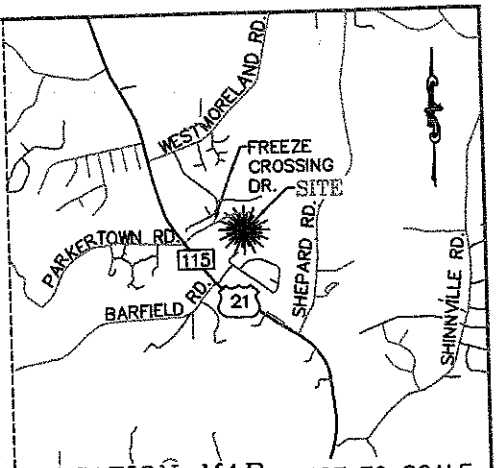
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LNS FILE NO.:	S140111
DWG NO.:	S140111REV2
SURVEYED BY:	J.G. JAYNES
DRAWN BY:	N.D. WHITLEY
CHECKED BY:	J.R. HOBBS

NC GRID
NAD 83(2011)
GPS OBSERVATION (VRS)
JANUARY 27, 2014

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NAD 83(2011)

PIN 4659-54-0763
MILLARD BRASINGTON and wife, NINA E. BRASINGTON
D.B. 1089 PG. 1304
LOT #33 P.B. 32 PG. 154

MANIFOLD
FLOW DIVIDER
B1
B2
B3
L1
L2
L3
L4
L5
N01°54'36"W
178.95'

SEPTIC AREA
= 0.216 ACRE

PIN 4659-54-9704
BUDDY G. SCOTT
W.B. 09E PG. 1093
D.B. 1150 PG. 758

CGF = 0.999860595
S43°41'01"E
664.61'-(NTS)

BRASINGTON LN.
(50' R/W)

TBM ELEC BOX
TOP OF BOX
3.0'

S01°54'36"E
74.96'

NAIL (S) AT BENT
½" I. ROD (F)
N 694573.81 FT
E 1455203.38 FT
NAD 83(2011)

½" I. ROD (F)

PIN 4659-54-3652
JEFFREY J. MATTIS and wife, MARY MATTIS
D.B. 2168 PG. 663
LOT #34 P.B. 32 PG. 154
AREA = 2.398 ACRES
(INCLUDING 0.356 ACRE IN SEPTIC EASEMENT)

S04°03'26"W
324.84'

C1
C2
C3
C4
C5
L6
L7

PROPOSED WELL

N67°29'29"E
82.02'

IREDELL COUNTY HEALTH DEPARTMENT

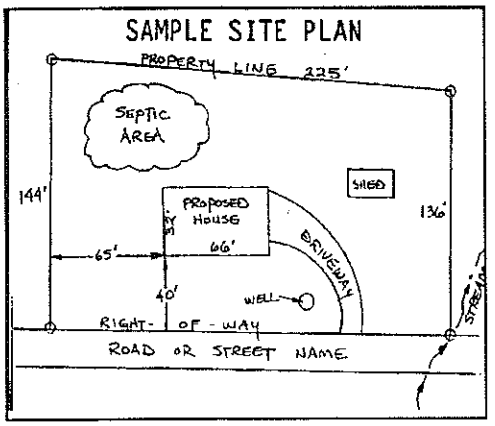
ENVIRONMENTAL HEALTH DIVISION

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)

2-6-14

DATE

Type: CRP
Recorded: 03/10/2014 at 03:12:16 PM
Fee Amt: $26.00 Page 1 of 5
Revenue Tax: $0.00
Iredell County, NC
Matthew J. McCall Register of Deeds
BK 2290 PG 573-577

Drawn by: Alan G. Carpenter, Attorney at Law

NORTH CAROLINA

DEED OF EASEMENT

IREDELL COUNTY

This Deed of Easement is made this 4th day of March, 2014, by and between JEFFREY J. MATTIS and wife, MARY MATTIS, (hereinafter called "Grantor"), and JEFFREY J. MATTIS and wife, MARY MATTIS, (hereinafter called "Grantee"),

(The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by the context.)

RECITALS:

1. The Grantor is the owner of a tract or parcel of land designated as Iredell County PIN 4659-54-3652 and described as Lot No. 34 as shown in Plat Book 32, page 154, Iredell County Registry.

2. The Grantee is the owner of a tract or parcel of land designated as Iredell County PIN 4659-54-1456 and described as Lot No. 35 as shown in Plat Book 32, page 154, Iredell County Registry.

3. The Grantee intends to construct a home on Lot No. 35, and has found that it is necessary that the proposed septic drain field for the home cross over into a portion of the tract described as Lot No. 34, and further, that a septic repair area is needed that would also be located upon Lot No. 34.

4. In order to comply with Iredell County Ordinances, the Grantee is in need of a recorded Deed of Easement, establishing that the septic drain field area and the septic repair area located on Lot No. 34 are an appurtenance to the tract described as Lot No. 35, as shown in Plat Book 32, page 154, Iredell County Registry.

Page Count: 5
DNS DPO DSI

R.O.I.C.

NOW, THEREFORE, in consideration of the foregoing premises and the sum of $1.00, receipt of which is hereby acknowledged, the Grantor does hereby give, grant, and convey unto the Grantee, his heirs and assigns, a perpetual right of way and easement for purposes of the installation and operation of a septic system and drain field, and for purposes of septic repair, over and upon the following two tracts described as follows:

Tract I (Septic Drain Field Area):

Beginning at a nail set at a bent ½ iron rod found in the margin of the cul-de-sac of Brasington Lane, having in NAD 83 (2011) coordinates of N=694,573.81 feet and E=1,455,203.38 feet and run thence with the margin of the cul-de-sac and with a curve to the left having a radius of 50.0 feet, an arc length of 92.85 feet, with a chord bearing and distance of North 09-15-15 West 80.07 feet to a ½ inch iron rod found, corner Lot 33; thence with the line of Lot No. 33, North 01-54-36 West 178.95 feet to a concrete monument found in the line of Louis N. Tommaselli; thence with the line of Tommaselli, South 84-50-49 East 126.43 feet to a No. 4 rebar set; thence with new lines the following courses and distances: (1) South 44-31-43 West 19.18 feet to a No. 4 rebar set; (2) South 39-55-34 West 38.46 feet to a No. 4 rebar set; (3) South 46-50-46 West 31.60 feet to a No. 4 rebar set; (4) South 67-11-45 West 32.45 feet to a No. 4 rebar set; (5) South 66-33-54 East 23.48 feet to a No. 4 rebar set; and (6) South 01-54-36 East 74.96 feet to a No. 4 rebar set; thence with a curve to the right having a radius of 60.00 feet, an arc length of 106.63 feet, with a chord bearing and distance of South 06-18-45 East 93.14 feet to No. 4 rebar set in the line of Lot No. 35; thence with the line of Lot No. 35, North 39-14-25 West 10.07 feet to a nail set at a bent ½ iron rod found in the margin of the cul-de-sac of Brasington Lane, the point and place of Beginning, containing 0.216 acres, more or less with this description taken from a survey by James R. Hobbs, Professional Land Surveyor, dated February 14, 2014, a copy of which is attached hereto.

Tract II (Septic Repair Area):

To find the point and place of Beginning, commence at a nail set at a bent ½ iron rod found in the margin of the cul-de-sac of Brasington Lane, having in NAD 83 (2011) coordinates of N=694,573.81 feet and E=1,455,203.38 feet, and run thence with the line of Lot No. 35 (Plat Book 32, page 154), South 39-14-25 East 10.07 feet to a No. 4 rebar set; and thence South 39-14-25 East 30.66 feet to a No. 4 rebar set, which is the point and place of Beginning;

thence from the point and place of Beginning, North 67-29-29 East

82.02 feet to a No. 4 rebar set, thence South 27 07 48 East 84.70 to a No. 4 rebar set; thence South 63-29-57 West 63.81 feet to a No. 4 rebar set in the line of Lot No. 35; thence North 39-14-25 West 86.99 feet to a No. 4 rebar set, the point and place of Beginning, containing 0.140 acres, more or less, with this description taken from a survey by James R. Hobbs, Professional Land Surveyor, dated February 14, 2014, a copy of which is attached hereto.

To have and to hold said rights and easements to the said Grantee and his heirs and assigns; it being agreed that the right and easement hereby granted is an appurtenance to and runs with the tract described as Lot No. 35, as shown in Plat Book 32, page 154, Iredell County Registry.

In Witness Whereof, the Grantor has caused this instrument to be duly executed, this the day and year first above written.

_____ (SEAL)
Jeffrey J. Mattis

_____ (SEAL)
Mary Mattis

STATE OF NORTH CAROLINA
COUNTY OF IREDELL

I, a Notary Public of the County and State aforesaid, certify that Jeffrey J. Mattis and Mary Mattis personally came before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 5th day of March, 2014.

Bertha M. Sentner
Notary Public

My Commission Expires: 12/02/2014

(Official Seal)

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
BERTHA A. SENTNER, Notary Public
Upper Milford Twp., Lehigh County
My Commission Expires December 02, 2014