2:30

BB

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

PERMIT # AP-308914

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

PIN # 4770 - 16 - 9314

APPLICANT / OWNER: Granite Ferry Inc. APPLICANT ADDRESS: PO Box 620013 Charlotte NC 28252

SITE ADDRESS: 144 Charles Farm Rd Cleveland NC 27013 PHONE: 704-576-3887 ALT. PHONE N/A

SITE DIRECTIONS: Hwy 150 T/L Hwy 801 T/L Triplett Rd T/L Charles Farm Dr Lot on right SAP CONTROLLED: ☐ YES ■ NO

SUBDIVISION: Hidden Creek SECTION: 1 LOT # 47 LOT AREA: .69ac DESIGN FLOW: 360 L.T.A.R.: 0.25

Septic Tank 1000 (gal) STB 760 Date 8/20/22

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 5 Linear Ft 240'

Trench Width 36" Max Trench Bottom Depth 20" Gravel Depth N/A

■ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: Horizontal - PPBPS

Repair System Description: Horizontal - PPBPS

Maintenance Agreement Required: ☐ YES ■ NO

■ GRAVITY ☐ PRESSURE

■ Residence ☐ Business ☐ Other ■ Slab ☐ Basement w/ plumbing

No. Bedrooms 3 No. Persons 6 No. Employees

☐ Crawl Space ☐ Basement w/o plumbing

Water Supply: ■ Private ☐ Public ☐ Community

Comments / Conditions: Per Plan by: Michael Athanas & Associates

Install house according to approved site plan

INITIAL SITE SKETCH

See plan by: Michael Athanas & Associates

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Tank checked MW 9/27/22

DRAIN LINES INSTALLED AS SHOWN

BCW 10-5-2022

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: 2/1/21 Installed by: Precision

IMPROVEMENT PERMIT by: Date: 2/1/21 OPERATION PERMIT by: Burt C. White Date: 10-7-2022

AUTHORIZATION TO CONSTRUCT by: Date: 3/28/22 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed

(66)

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # **AP-308914**

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

PIN # 4770 - 16 - 9314

APPLICANT/OWNER: Granite Ferry Inc. APPLICANT ADDRESS: PO Box 620013 Charlotte NC 28252

SITE ADDRESS: 144 Charles Farm Rd Cleveland NC 27013 PHONE: 704-576-3887 ALT. PHONE N/A

SITE DIRECTIONS: Hwy 150 T/L Hwy 801 T/L Triplett Rd T/L Charles Farm Dr Lot on right SAP CONTROLLED: ☐ YES ■ NO

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Septic Tank 1000 (gal) STB 760 Date 8/20/22
Pump Tank (gal) PT Date
Pump Make Model Serial #
Nitrification Fields 1 # Lines 5 Linear Ft 240'
Trench Width 36" Max Trench Bottom Depth 20" Gravel Depth N/A

■ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI
System Description: Horizontal - PPBPS
Repair System Description: Horizontal - PPBPS
Maintenance Agreement Required: ☐ YES ■ NO
■ GRAVITY ☐ PRESSURE

■ Residence No. Bedrooms 3
☐ Business No. Persons 6
☐ Other No. Employees
■ Slab ☐ Crawl Space
☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ■ Private ☐ Public ☐ Community

Comments / Conditions: Per Plan by: Michael Athanas & Associates

Install house according to approved site plan

INITIAL SITE SKETCH

See plan by: Michael Athanas & Associates

AS BUILT SKETCH

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Tank checked MW 9/27/22

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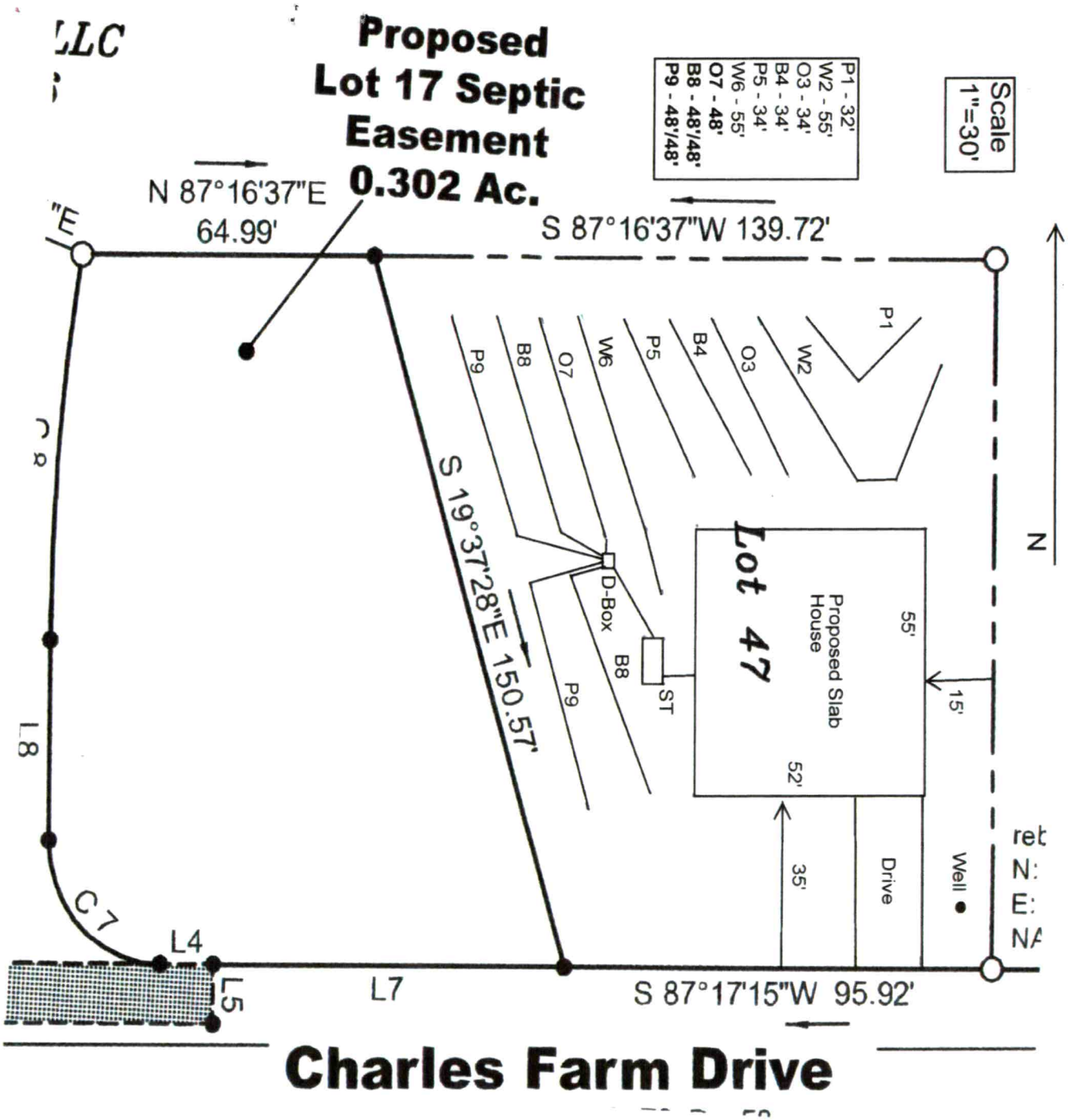
☐ **IMPROVEMENT PERMIT** *with plat, valid without expiration.* ■ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 2/12/21 Installed by: Precision

IMPROVEMENT PERMIT by: Date: 2/1/21 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: 3/28/22 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.


LLC
Proposed
Lot 17 Septic
Easement
0.302 Ac.
P1 - 32'
W2 - 55'
O3 - 34'
B4 - 34'
P5 - 34'
W6 - 55'
O7 - 48'
B8 - 48'/48'
P9 - 48'/48'
Scale
1"=30'
N 87°16'37"E
64.99'
S 87°16'37"W 139.72'
S 19°37'28"E 150.57'
P1
W2
O3
B4
P5
W6
O7
B8
P9
D-Box
ST
Lot 47
Proposed Slab
House
55'
52'
15'
35'
Drive
Well
N
L8
C7
L4
L5
L7
S 87°17'15"W 95.92'
Charles Farm Drive



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556Walden Trail
Weddington, NC 28173
(704) 576-3887
1/5/2021

Reference: Data Sheet for 144 Charles Farm Rd, Hidden Creek Lot 47
House Footprint: 52' x 55'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms/Daily Flow: 3/360 GPD
Predetermined LTAR: 0.25 GPD/FT^2 (ICHD)
Proposed System Type: Horizontal PPBPS
Proposed Repair System Type: Horizontal PPBPS
Distribution: Gravity – Distribution Box
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 20" (ICHD)

Line	Design Length	Actual Length
Pink 1		32'
White 2		55'
Orange 3		34'
Blue 4		34'
Pink 5		34'
White 6		55'
Orange 7	**48'**	**48'**
Blue 8	**48'/48'**	**110'**
Pink 9	**48'/48'**	**113'**



Initial System: 240' **Repair System:** 244'

Comments:
This lot has been redesigned to accommodate a septic easement for lot 17. MA&A are designing the system based on Iredell County EH's LTAR and trench bottom.

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 7701693 14
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Granite Ferry Inc
ADDRESS: 1820 Harris Houston Rd #62013 Charlotte NC
PROPOSED FACILITY: House
LOCATION OF SITE: Holden Creek #4 Lot 3
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
APPLICATION DATE: 7/8/2020
DATE EVALUATED: 8/5/20
PROPOSED DESIGN FLOW (.1949): 360gpd
PROPERTY SIZE: .69 Acre
PROPERTY RECORDED: Y
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	8% Not in System Area	0-7	Brn SCL	wSBK	SS, SP,		SExP, FR		PS
		7-19	R/Rd/Brn	C M-	SBK	SS	SP, SExP		
		19-40	Rd/Brn	C	wSBK	SS, SP,	SExP, FR		.25
		W/	Yel/Brn	matrix		some	SAP	—	
		40-60+	SL	SAP	massive	FR —	40" Quartz vein on one wall		
2	L 10%	0-8	Brn	SCL	wSBK	SS, SP,	SExP, FR		PS
		8-39	Rd/Brn	C/C	wSBK	SS, SP	SExP, FR		
		W/	Yel to	matrix	SAP	Inclus			.3
		39-60+	SL	SAP					
			Massive	FR	—	39"	—	—	
3	L 10%	0-8	Brn	SCL	wSBK	SS, SP,	SExP, FR		PS
		8-23	R to Rd	Brn C	wSBK	SS, SP,	SExP, FR		
		23-39	Rd	Brn C	wSBK	SS, SP,	SExP, FR		
		39-47	Rd	Brn C	wSBK		Brn mottles, Quartz & SAP		
		47-50	SL	SAP	massive	FR —	47" —	—	.25
4	L 7%	0-12	Brn	SCL	wSBK	SS, SP,	SExP, FR		PS
		12-25	RC/C		wSBK	SS, SP,	SExP, FR		
		25-50	R to Rd	Fri C	wSBK	SS, SP,	SExP, FR		.25
		W/ SAP	Yel/	matrix	some	Low/Chroma >	40"		
		50-54	SL	SAP	massive	40"	50"	—	—

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	Hart Pipes
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT: Bart Abernathy

COMMENTS:

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 4770 169 34
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Granite Ferry Inc
ADDRESS: 1820 Harris Houston Rd #G 20013 Charlotte, NC
PROPOSED FACILITY: House
LOCATION OF SITE: Hidden Creek #47
APPLICATION DATE: 7/8/2020
DATE EVALUATED: 8/5/2020
PROPERTY SIZE: .692 acre
PROPERTY RECORDED: Y

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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 7%	0-12	Brn SCL	w SBK	SS, SP, Sexp, FR				PS .25
		12-18	R C SCL	m-w SBK	SS, SP, Sexp, FR				
		18-35	R to RD/Brn CL	w SBK	SS, SP, Sexp, FR				
			Wpl Ybl/Brn	Mottles					
5		35-62	SL SAP	massive	FR	35"	—	—	
2	10% Not in System Area	0-9	Brn SCL	w SBK	SS, SP	Sexp	FR		PS .3
		9-19	R to RD Brn	YCL m-w SBK	SS, SP, Sexp, FR				
		19-32	R to Wel/Rd	m-w SBK	SS, SP, Sexp, FR				
			w/ few to many		SAP	Incl 0			
6		32-60	SL SA	massive	FR	32"	—	—	
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	Hot PBBS
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT: Bart Abernathy

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

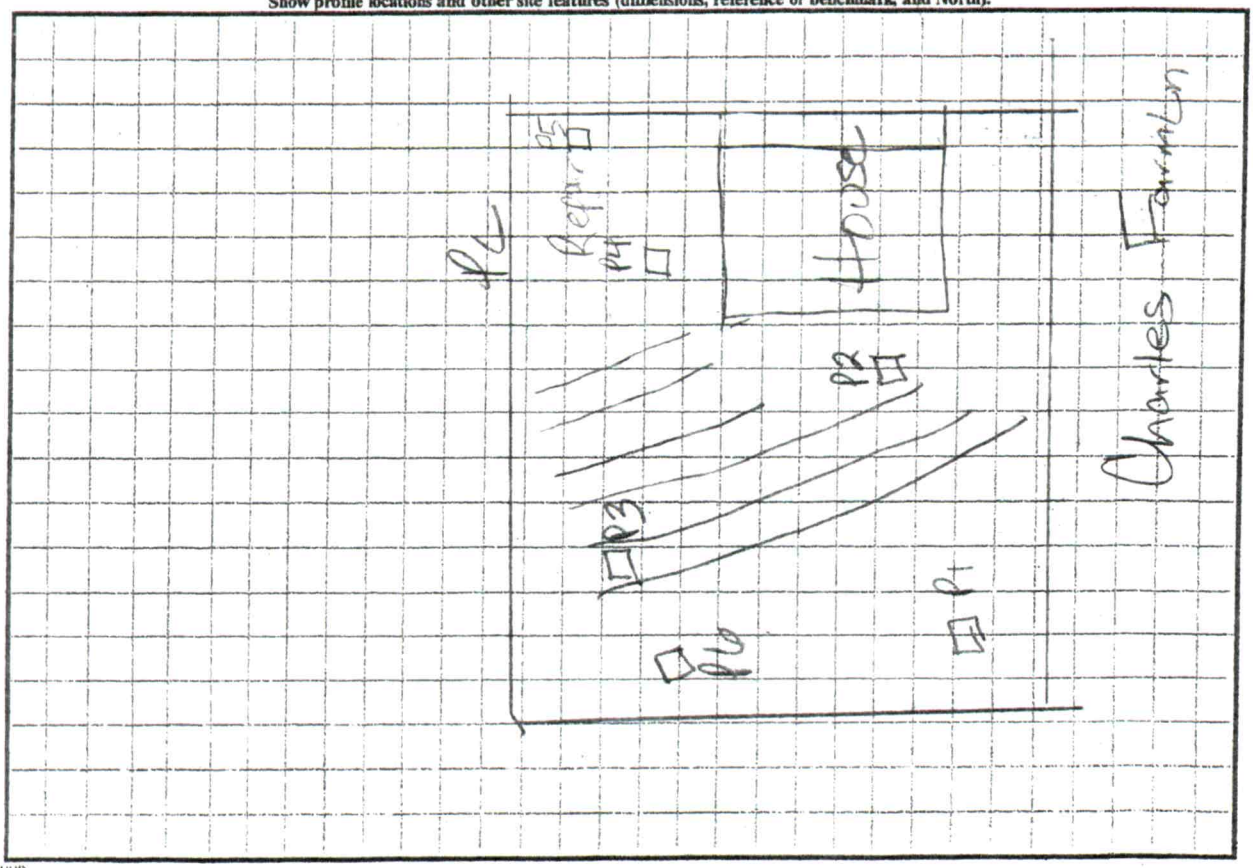
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



ENR (######)
view (#####)

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # **AP-308914**

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

PIN # 4770 - 16 - 9314

APPLICANT/OWNER: Granite Ferry Inc. APPLICANT ADDRESS: PO Box 620013 Charlotte NC 28252

SITE ADDRESS: 144 Charles Farm Rd Cleveland NC 27013 PHONE: 704-576-3887 ALT. PHONE N/A

SITE DIRECTIONS: Hwy 150 T/L Hwy 801 T/L Triplett Rd T/L Charles Farm Dr Lot on right SAP CONTROLLED: ☐ YES ■ NO

SUBDIVISION: Hidden Creek SECTION: 1 LOT # 47 LOT AREA: .69ac DESIGN FLOW: 360 L.T.A.R.: 0.25

Septic Tank 1000 (gal) STB Date
Pump Tank (gal) PT Date
Pump Make Model Serial #
Nitrification Fields 1 # Lines 5 Linear Ft: 240'
Trench Width 36" Max Trench Bottom Depth 20" Gravel Depth N/A

■ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI
System Description: Horizontal - PPBPS
Repair System Description: Horizontal - PPBPS
Maintenance Agreement Required: ☐ YES ■ NO
■ GRAVITY ☐ PRESSURE

■ Residence No. Bedrooms 3
☐ Business No. Persons 6
☐ Other No. Employees
■ Slab ☐ Crawl Space
☐ Basement w/ plumbing ☐ Basement w/o plumbing

Water Supply: ■ Private ☐ Public ☐ Community

Comments / Conditions: Per Plan by: Michael Athanas & Associates

Install house according to approved site plan

INITIAL SITE SKETCH

See plan by: Michael Athanas & Associates

AS BUILT SKETCH

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Owner / Applicant Signature: Date: 2/12/21 Installed by:

IMPROVEMENT PERMIT by: Date: 2/1/21 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: D. Wiebenga Date: 3/25/22 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

LLC

Proposed
Lot 17 Septic
Easement
0.302 Ac.

N 87°16'37"E
64.99'

S 87°16'37"W 139.72'

S 19°37'28"E 150.57'

S 87°17'15"W 95.92'

Charles Farm Drive

P1 - 32'
W2 - 55'
O3 - 34'
B4 - 34'
P5 - 34'
W6 - 55'
O7 - 48'
B8 - 48'/48'
P9 - 48'/48'

Scale
1"=30'

N

ret
N:
E:
NA

Well

15'

Drive

55'

Proposed Slab
House

52'

35'

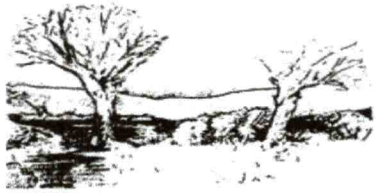
Lot 47

ST

D-Box

P1
W2
O3
B4
P5
W6
O7
B8
P9
P9
B8

L1
L2
L3
L4
L5
L6
L7
L8
C7
C8



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556Walden Trail
Weddington, NC 28173
(704) 576-3887
1/5/2021

Reference: Data Sheet for 144 Charles Farm Rd, Hidden Creek Lot 47
House Footprint: 52' x 55'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms/Daily Flow: 3/360 GPD
Predetermined LTAR: 0.25 GPD/FT^2 (ICHD)
Proposed System Type: Horizontal PPBPS
Proposed Repair System Type: Horizontal PPBPS
Distribution: Gravity – Distribution Box
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 20" (ICHD)

Line	Design Length	Actual Length
Pink 1		32'
White 2		55'
Orange 3		34'
Blue 4		34'
Pink 5		34'
White 6		55'
Orange 7	**48'**	**48'**
Blue 8	**48'/48'**	**110'**
Pink 9	**48'/48'**	**113'**



Initial System: 240' **Repair System:** 244'

Comments:
This lot has been redesigned to accommodate a septic easement for lot 17. MA&A are designing the system based on Iredell County EH's LTAR and trench bottom.

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 7701693141
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Granite Ferry Inc
ADDRESS: 1820 Harris Houston Rd #620013 Charlotte NC
PROPOSED FACILITY: House
LOCATION OF SITE: Hidden Creek #4 Lot 7
APPLICATION DATE: 7/8/2020
DATE EVALUATED: 8/5/20
PROPERTY SIZE: .69 Acre
PROPERTY RECORDED: X
PROPOSED DESIGN FLOW (.1949): 360gpd
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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	8% Not in System Area	0-7	Brn SCL	w SBK	SS,	SP,	Sexp,	FR	PS
		7-19	R/Rd/Brn C	M-w SBK	SS	SP,	Sexp,		
		19-40	Rd/Brn C	w SBK	SS	SP,	Sexp,	FR	
		w/ Yel/Brn matte		& some		40"	SA	—	.25
		40-60	SL	SAP massive	FR	Quartz vein	—	on one wall	
2	L 10%	0-8	Brn SCL	w SBK	SS,	SP,	Sexp,	FR	PS
		8-39	Rd/Brn C/C	w SBK	SS,	SP	Sexp,	FR	
		w/ few to many		SAP	Inclus				
		39-60	SL	SAP					.3
			Massive,	FR	—	39"	—	—	
3	L 10%	0-8	Brn SCL	w SBK	SS,	SP,	Sexp,	FR	PS
		8-23	R to Rd	Brn C w SBK	SS,	SP,	Sexp,	FR	
		23-39	Rd/Brn	C w SBK	SS,	SP,	Sexp,	FR	
		39-47	Rd/Brn	C w SBK	w/ Yel/Brn	mottles,	Quartz	& SAP	
		47-50	SL	SAP massive	FR	47"	—	—	.25
4	L 7%	0-12	Brn SCL	w SBK	SS, SP,		Sexp,	FR	PS
		12-25	RC/C	w SBK	SS, SP,		Sexp,	FR	
		25-50	R to Yel/Rd	C	w SBK	SS, SP,	Sexp,	FR	
		w/ SAP	Inclus	some Low	Chroma >		40"		.25
		50-54	SL	SAP massive	40"	50"	—	—	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	Hot Pipes
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT: Bart Abernathy

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

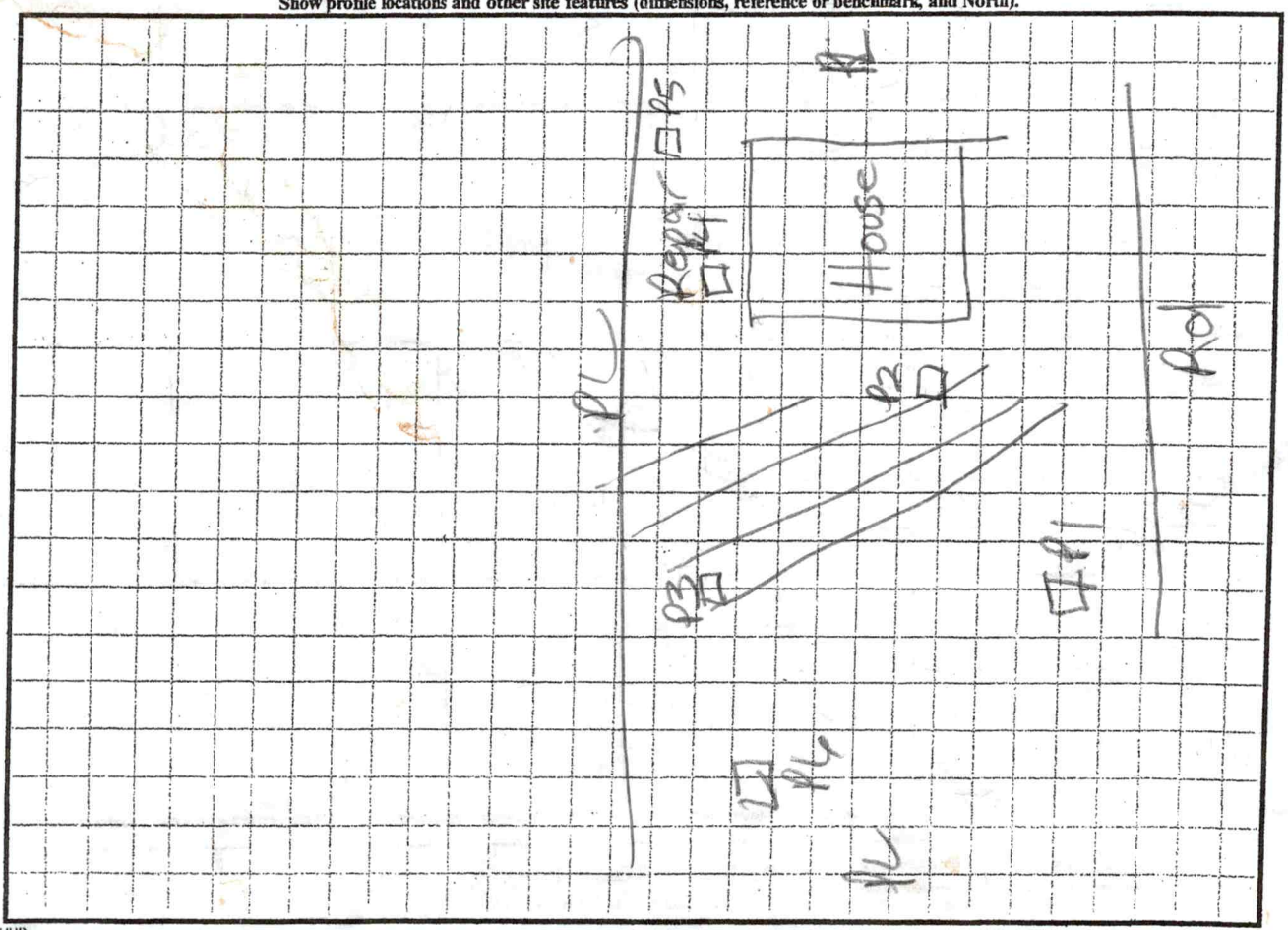
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



(######)

(#####)

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 4770 169 314
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Granite Ferry Inc
ADDRESS: 1820 Harris Houston Rd #620013 Charlotte, NC
PROPOSED FACILITY: House
LOCATION OF SITE: Hidden Creek #47
APPLICATION DATE: 7/8/2020
DATE EVALUATED: 8/5/2020
PROPERTY SIZE: .692 acre
PROPERTY RECORDED: Y

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 7%	0-12	Brw SCL	wSBK	SS, SP,	Sexp,	FR		PS .25
		12-18	R CSCL	m-wSBK	SS, SP,	Sexp,	FR		
		18-35	R to Rd/Brw CL	wSBK	SS, SP,	Sexp,	FR		
			Wet Yel/Brw	Mottles					
		35-62	SL SAP	massive	FR —	35"	—	—	
2	10% Not in System Area	0-9	Brw SCL	wSBK	SS, SP,	Sexp,	FR		PS .3
		9-19	R to Rd/Brw CL	m-wSBK	SS, SP,	Sexp,	FR		
		19-32	R to yel/Rd CL	wSBK	SS, SP,	Sexp,	FR		
			w/ few to many		SAP	Inc 10			
		32-60	SL SAP	massive	FR —	32"	—	—	
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	Hort PBBB
Site LTAR	.25	.25

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Maria Dotson
OTHER(S) PRESENT: Bart Abernathy

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

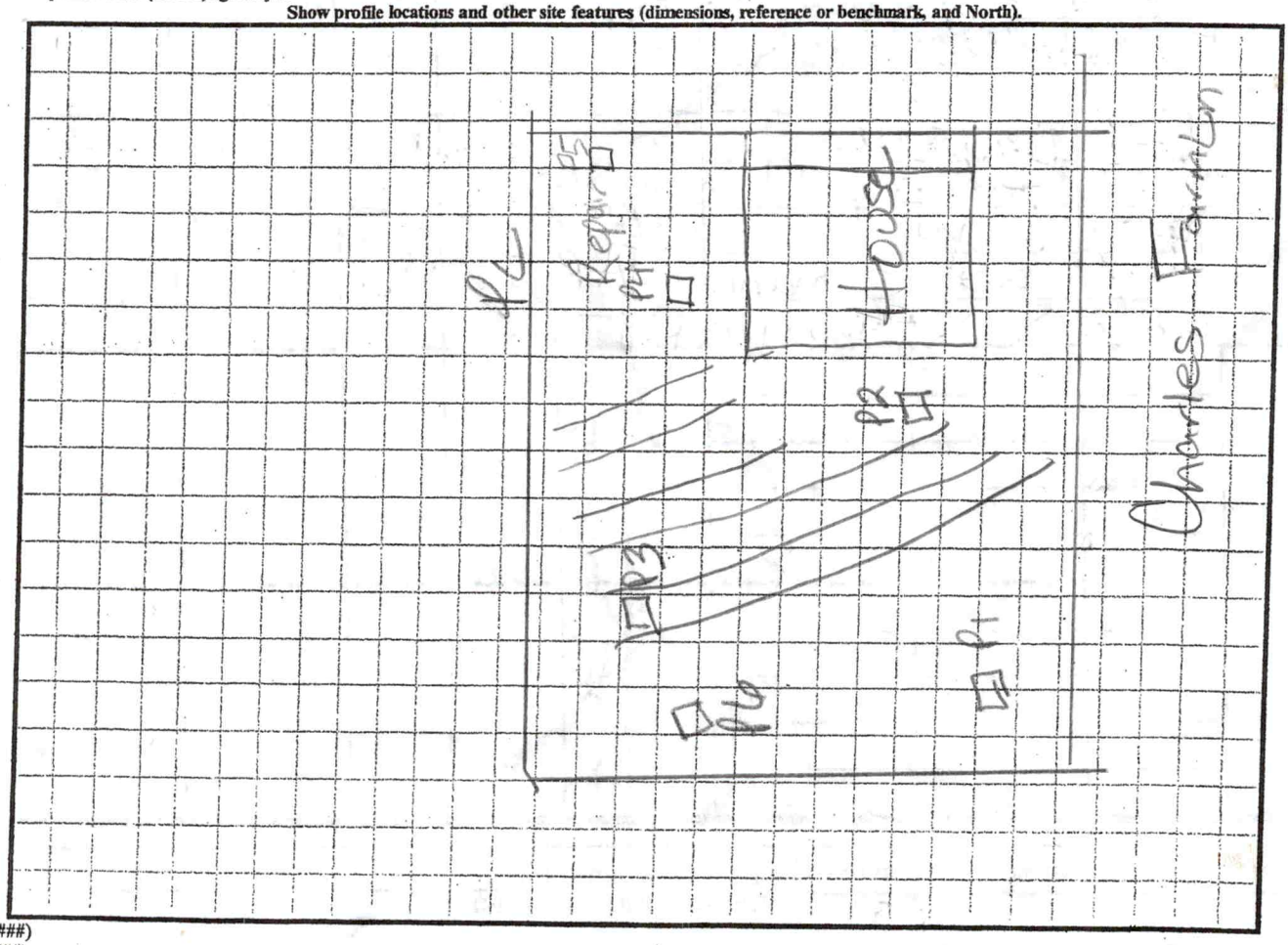
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Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



ENR (######)
view (#####)

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
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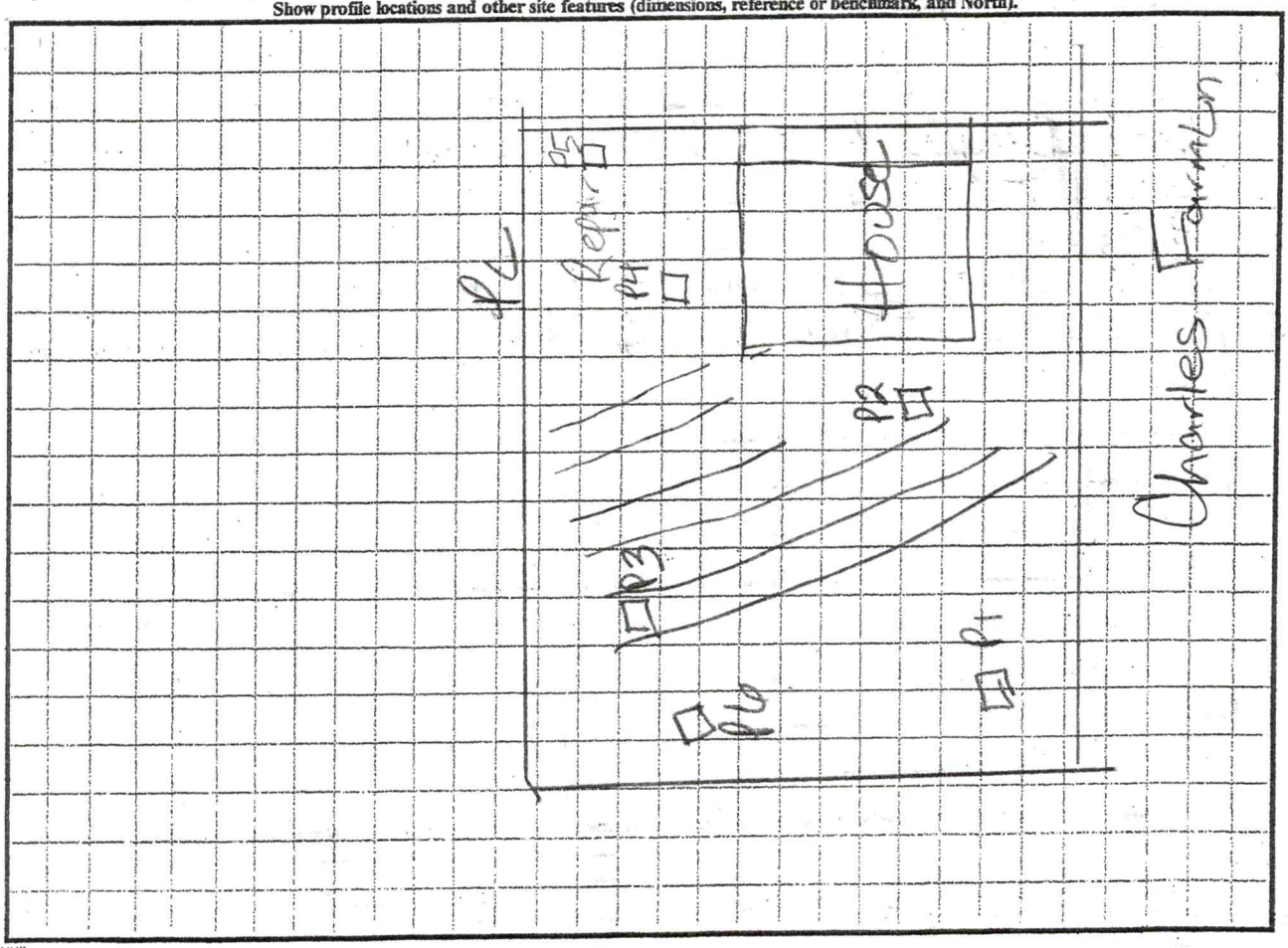
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Show profile locations and other site features (dimensions, reference or benchmark, and North).



ENR (######)

view (#####)

RECEIVED MAR 2 2 2022

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-308914

Application For: (X) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit (X) 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 (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Cynthia Bladning **Address:** 3401 Saint Vardell Lane, Suite B, Charlotte, NC **Zip:** 28217
Applicant Email: submit@maipermits.com **Phone:** (704) 621-4664 **Alt. Phone:** (704) 884-1548
Owner Name: Adams Homes AEC, LLC **Address:** 3401 Saint Vardell Lane, Suite B, Charlotte, NC **Zip:** 28217
Owner Email: charlottewarranty@adamshomes.com **Phone:** (704) 558-4527 **Alt. Phone:** _____

Property Information:

Street Address: 144 Charles Farm Drive , Cleveland. NC 27013 4770-169-383

Subdivision Name: Hidden Creek **Section/Phase:** _____ **Lot Number:** 47

Driving Directions: I-77 North, exit 42, right onto NC-115 / US-21 toward Troutman , Turn left onto US-21 N / NC-115 N,
Turn right onto Ostwalt Amity Rd, Turn left onto Bethesda Rd, Turn right onto Northlake Dr

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

CHECK FOUNDATION TYPE

(X) New Single Family Residence — Maximum Number of Bedrooms: 3 — (X) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: _____ — ( ) Concrete Slab Foundation
( ) Accessory Building — ( ) Swimming Pool — ( ) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: _____ — ( ) Basement without Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____
Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

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

Please answer the following to the best of your ability:
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) 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: Cynthia Bladning March 22, 2022
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Jenkins – 910-777-8531 Northlake Drive lots

Ryan Kinard – 704-813-7535 Wylie Trial lots

144 Charles Farm Drive, Cleveland. NC 27013 Lot 47

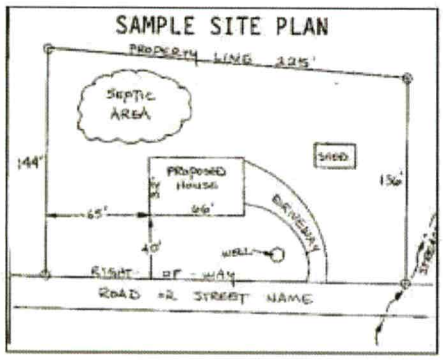
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL 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**
- (X) **Front and side setbacks from property line**
- (X) **Preferred driveway location**
- (X) **Preferred well location**
- (X) **Preferred septic system location**
- (X) **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

Please see attached

Signature: Cynthia Blanding

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

March 22, 2022

DATE

Hidden Creek Lot: **47**

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative:

Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:

Complete this form to document his or her legal representative, or provide his or her own form that contains the info

If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

I, Adams Homes NC, LLC, am the legal owner(s) of the property located at 144 Charles Farm Drive, Cleveland. NC 27013, identified as PIN (Parcel Identification Number) 4770-169-383, located in Iredell County, North Carolina.

I do hereby authorize **(print legal representative/company name)** Cynthia Blanding, MAJ Permits Inc., to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

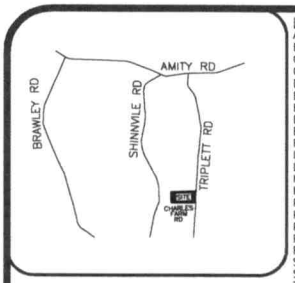
X MANAGER 7/19/2016
Signature of Owner(s) Date

X 7.19.16
Signature of Witness Date

Please return this signed form to the appropriate office:

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677



VICINITY MAP (NTS)

LEGEND
AC=AIR CONDITIONING UNIT
BOC=BACK OF CURB
CATV=CABLE TV
CB=CATCH BASIN
DW=CONC DRIVEWAY
EB=ELECTRIC BOX
EM=ELECTRIC METER
EOP=EDGE OF PAVEMENT
EP=ELECTRIC PEDESTAL
FH=FIRE HYDRANT
ICV=IRRIGATION CONTROL VALVE
LP=LIGHT POLE
MH=MANHOLE
MTR=METER
PCP=PLASTIC CORRUGATED PIPE
PO=PORCH
PP=POWER POLE
RCP=REINFORCED CONC PIPE
R/W=RIGHT OF WAY
SCO=CLEANOUT
SW=SIDEWALK
TF=TRANSFORMER
TP=TELEPHONE PEDESTAL
WM=WATER METER
WV=WATER VALVE
EIP=EXISTING IRON PIPE
IRON PIPE SET
EIR=EXISTING IRON ROD

NORTH CAROLINA PROFESSIONAL SEAL L-3640 LAND SURVEYOR DAVID B. FLOYD

THIS EXHIBIT MAP IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

PRELIMINARY

DB FLOYD, PLS L-3640 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED.

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.

3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS SURVEY.

4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

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6. DRIVEWAY IMPERVIOUS CALCULATION SHOWN HEREON CALCULATED TO THE FRONT PROPERTY LINE/RIGHT-OF-WAY.

IMPERVIOUS AREA

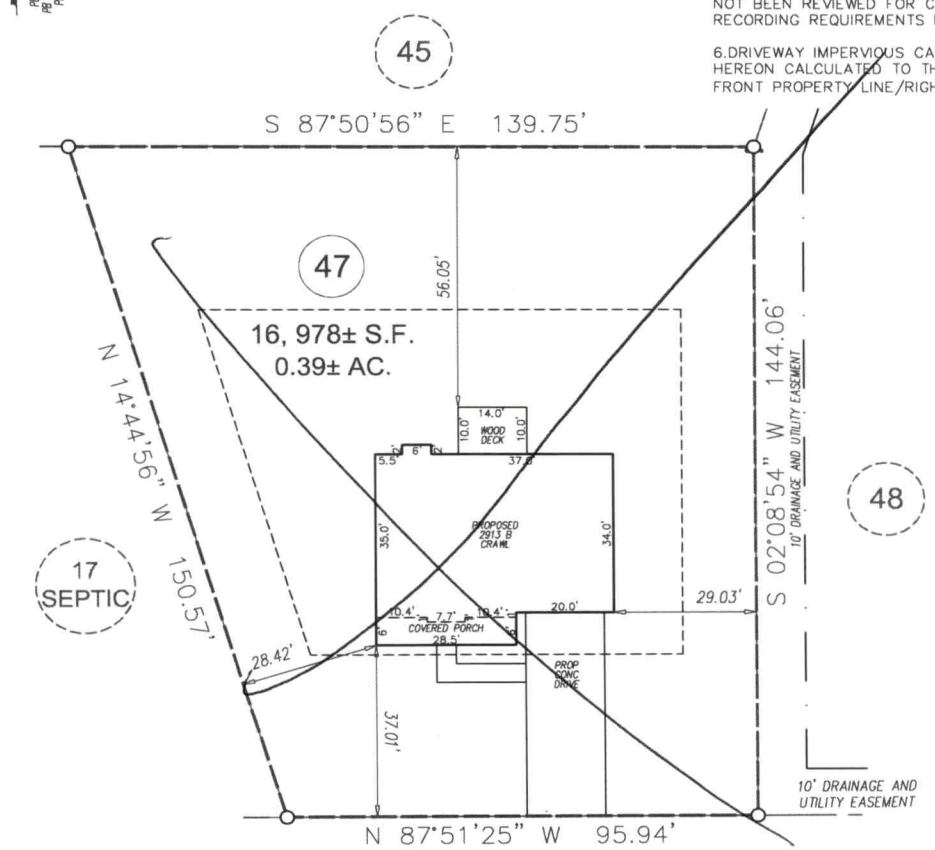
HOUSE	1,860 SQ.FT.
DRIVE TO R/W	704 SQ.FT.
WALK	89 SQ.FT.
DECK	140 SQ.FT.
TOTAL	2,793 SQ.FT.

SETBACKS PER: P.B. 55, PG. 138

FRONT	35'
SIDE	15'
REAR	35'
SIDE STREET	25'

PLAT NORTH PB 57, PG 9 & PB 66, PG 106 & PB 73, PG 81

N/F
R+S HOLDING GROUP LLC
DB 1897 PG 2436



GRAPHIC SCALE
30 0 15
1 inch = 30 ft.

CHARLES FARM DRIVE
50' PUBLIC R/W

PRELIMINARY
PLOT PLAN

PROJECT:	20-007 HIDDEN CREEK
DRAWN BY:	SEER
SCALE:	1"=30'
DATE:	3-2-2022

FOR
ADAMS HOMES
144 CHARLES FARM DRIVE
LOT 47 HIDDEN CREEK SUBDIVISION
BARRINGER TWP., IREDELL CO., NC
P.B. 57, PG. 9; P.B. 66, PG. 106; P.B. 73, PG. 81

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N McKINLEY ST
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO#C-4175

ADAMS HOMES AEC, LLC

2913 "B" FE (R) HK047

DATE DRAWN	3/17/2022
REVISIONS	5534

SHEET 3

Acknowledgement Of Plans Submittal ONLY!

Date 3/31/22

Date 3/28/22

FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"

9'-0" (NOM.) CLG. HGT. U.N.O.
SET WINDOWS @ 7'-0" U.N.O.



Date 3/28/22

Date

Acknowledgement Of Plans Submittal ONLY!

2/14/22

SECOND FLOOR PLAN

8'-0" (NOM.) CLG. HGT. U.N.O.
SET WINDOWS @ 7'-2" U.N.O.

SCALE: 1/4"=1'-0"

SHEET 4

DATE DRAWN 3/17/2022
REVISIONS 5534

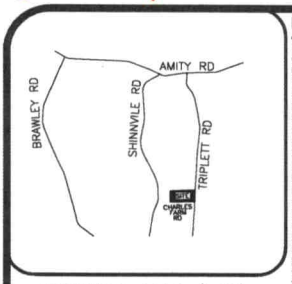
2913 "B" FE (R) HK047

ADAMS HOMES AEC, LLC

Revised SP

144 Charles Farm

RECEIVED MAR 2 5 2022



VICINITY MAP (NTS)

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P R E L I M I N A R Y

DB FLOYD, PLS L-3640 DATE

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SETBACKS PER: P.B. 55, PG. 138

FRONT	35'
SIDE	15'
REAR	35'
SIDE STREET	25'

Acknowledgement Of Plans Submittal ONLY!

Date 3/31/22

Date 3/31/22

PLAT NORTH PB 57, PG 9 & PB 66, PG 106 & PB 73, PG 81

N/F
R+S HOLDING GROUP LLC
DB 1897 PG 2436

45

S 87°50'56" E 139.75'

56.05'

47

16,978± S.F.
0.39± AC.

14.0'
10.0'
WOOD DECK
10.0'

5.5'
6'
37.0'

PROPOSED 2913 B CRAWL

35.0'
34.0'

10.4'
7.7'
10.4'
COVERED PORCH
6'
6'
20.0'
28.5'

17.00'

PROP CONC DRIVE

39.93'

37.00'

N 14°44'56" W 150.57'

17
SEPTIC

S 02°08'54" W 144.06'

10' DRAINAGE AND UTILITY EASEMENT

48

10' DRAINAGE AND UTILITY EASEMENT

N 87°51'25" W 95.94'

CHARLES FARM DRIVE
50' PUBLIC R/W

REVISION: ADDED SEPTIC AND MOVED HOUSE PER REQUEST 03-24-2022 SEER
REVISION: MOVED HOUSE TO THE RIGHT 10' PER REQUEST 03-15-2022 SEER

GRAPHIC SCALE
30 0 15
1 inch = 30 ft.

P R E L I M I N A R Y
PLOT PLAN

PROJECT:	20-007 HIDDEN CREEK
DRAWN BY:	SEER
SCALE:	1"=30'
DATE:	3-2-2022

FOR
ADAMS HOMES
144 CHARLES FARM DRIVE
LOT 47 HIDDEN CREEK SUBDIVISION
BARRINGER TWP., IREDELL CO., NC
P.B. 57, PG. 9; P.B. 66, PG. 106; P.B. 73, PG. 81

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