Supervisor/Administrative Professional Checklist

New Septic [X] **New Well** [ ] **Use Existing** [ ] **Alteration** [ ] **Modified Plot Plan** [ ]

New Septic Fees Paid:

IP ($250.00) LE 10/22/15 Initials/Date

CA ($200.00) LE 3/11/16 Initials/Date

OP ($200.00) LE 3/11/16 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. [✓] Reviewed [✓] JAM

This site is served by septic and well. Verify each is complete before final hold is released. [✓]

Septic file completed. [✓] JAM Well file completed. [✓] JAM

Send permit for signature. [✓] Signature received. [✓] _____

This septic system requires a certified operator contract before final hold is released. [✓]

Certified operator contract is on file. [ ] _____



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Parcel ID- 01132111 Huntington Village Drive, Septic Installation

Mecklenburg County,
Michael Athanas & Associates, Inc. approves of the installation, it appears the installer met all of the guidelines in our proposal.

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 93208 WASPS App #: _____

Primary ES assigned to project: Kim Garrett

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 9 pits			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.25 Initial 0.3 Repair	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: JAM Date performed: _____

MECKLENBURG COUNTY
HEALTH DEPARTMENT 9320B App# 7849

21 OCT '15 AM 8:59

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 01132101
STREET ADDRESS: 6445 Huntingtowne Village Rd.
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME:
LOT #: LOT SIZE (acres): 2.429
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ◉ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 2,654
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 2
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:

6. WATER SUPPLY: ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER

7. PROPOSED USE OF WELL: ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:
☑ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER

8A. RANK: ___ ___ ___ ___ ___

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	◉ YES ○ NO
EASEMENTS OR RIGHT-OF-WAYS	◉ YES ○ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 10-16-2015 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ☐ N/A

12. PROPERTY OWNER:
NAME: Jonathan Martin Williams
ADDRESS: 13500 Hiwassee Road
CITY: Huntersville
STATE: NC ZIP: 28078
WORK PHONE:
MOBILE PHONE: 704-562-0259
FAX:
E-MAIL: jonathanwilliams755@outlook.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME:
ADDRESS:
CITY:
STATE: ZIP:
WORK PHONE:
MOBILE PHONE:
FAX:
E-MAIL:

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. 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. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring. SAW (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. 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. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

10-18-15
Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $_____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $_____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

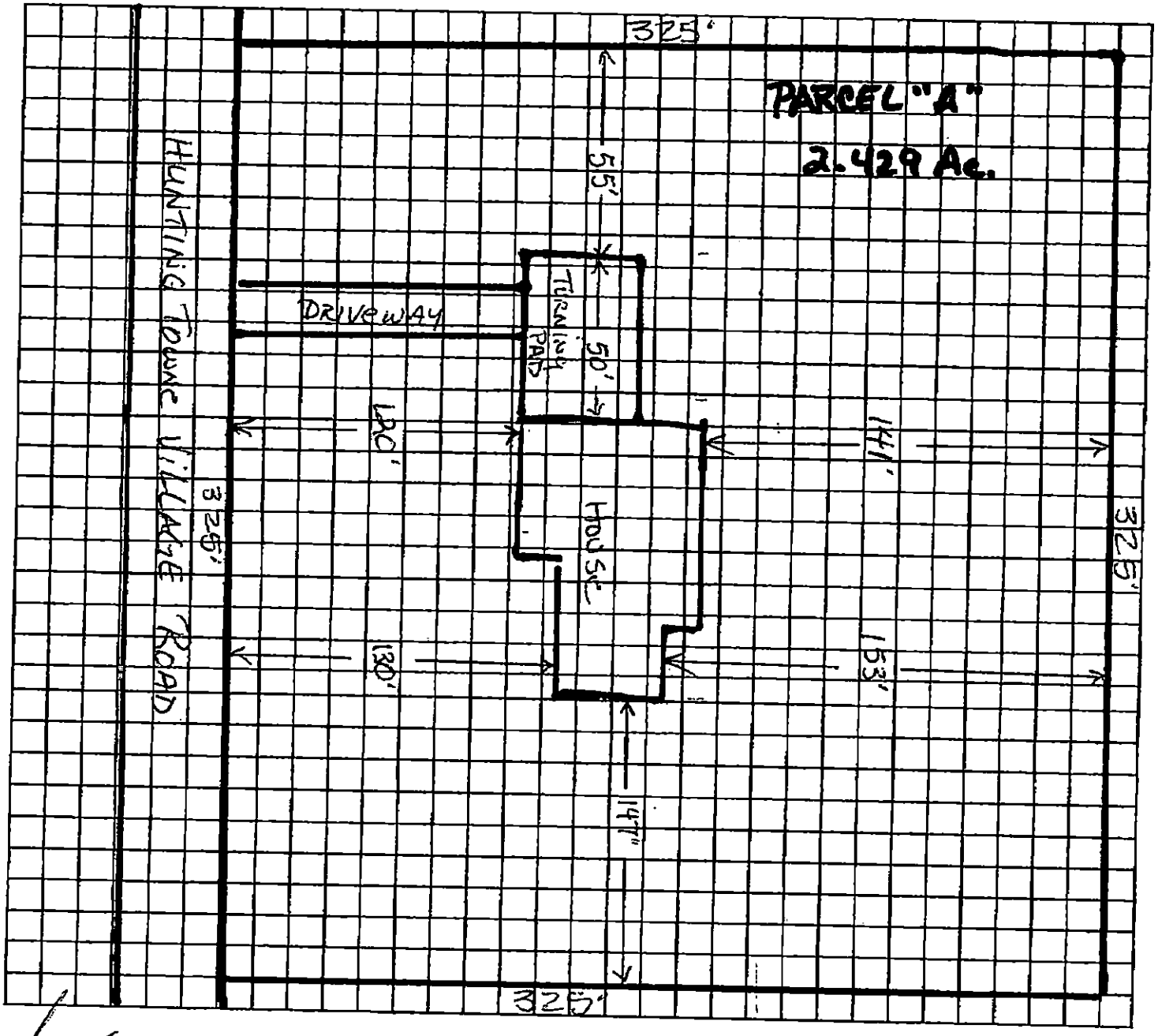
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: Huntingtowne Village Rd Tax Parcel #: 01132101 (Parcel "A")

Subdivision Name: _____ Lot #: _____



Property Owner's or Owner's Legal Representative Signature

10-18-15
Date

Oct 20 15 07:05p TAMMY WILLIAMS 704-875-1057 p.5

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAT IS TO CREATE PARCEL "A" FROM THE LAND OF JACK D. WILLIAMS, JR.
2. ZONING: (Town Of Huntersville) R
3. TAX ID No.: 01132101
4. THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN AN AREA OF MECKLENBURG COUNTY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND; HOWEVER, THIS PLAT IS EXEMPT FROM THESE REGULATIONS.
5. NO MONUMENT FOUND WITHIN 2000 FEET OF THIS SURVEY.
6. OWNER: JACK D. WILLIAMS, DEED BOOK 4114, PAGE 596
7. THIS PROPERTY IS NOT LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREA (ZONE X) AS SHOWN ON FEMA PANEL No. 3710466100J, DATED 3/02/2009.
8. ALL AREAS CALCULATED BY COORDINATE COMPUTATION.
9. THIS MAP IS A SURVEY OF PARCEL "A" ONLY. THE "REMAINDER" PARCEL (9.836 Acre) WAS NOT SURVEYED AND ALL BEARINGS AND DISTANCES SHOWN ARE FROM DB 4114, PG 596 AND AN UNRECORDED MAP BY R. B. FRAZER DATED APRIL 13, 1987.
10. THIS PROPERTY MAY BE SUBJECT TO EASEMENTS AND RIGHT OF WAYS NOT SHOWN ON THIS PLAT.

EXEMPT SUBDIVISION/RECOMBINATION PLAT

THIS PLAT REPRESENTS A DIVISION OF PROPERTY WITHIN THE JURISDICTION OF THE TOWN OF HUNTERSVILLE THAT MAY OR MAY NOT RESULT IN THE CREATION OF TRACTS OF LAND THAT ARE COMPLIANT WITH THE STANDARDS OF THE ZONING AND SUBDIVISION ORDINANCE. IT IS NOT SUBJECT TO THE PROVISIONS OF THE HUNTERSVILLE SUBDIVISION ORDINANCE AND DOES NOT REQUIRE THE APPROVAL OF THE HUNTERSVILLE BOARD OF COMMISSIONERS. HOWEVER ANY FURTHER SUBDIVISION OF THIS PROPERTY MAY BE SUBJECT TO THESE PROVISIONS.

TOWN OF HUNTERSVILLE

Meredith M. Nesbill — 10-15-15
Town Planner — Date

Map Book 58 Page 440
#2015135495

VICINITY MAP

LINETYPE LEGEND
- PUBLIC R/W
- ADJOINER
- PROPERTY LINE
- EASEMENT

FILED FOR REGISTRATION
OCT 15 '15
4:06 PM

Tax ID: 01131109
13624 Hinassee Rd.
N/F
S&H CAROLINA PROP., LLC
21525-197

BILLY R. HANCOCK
3860-696
Tax ID: 01131110
N/A HINASSEE RD.
(NO STREET)

N 11° 36' 50" E 692.01'
N 16° 35' 50" E 148.90'
N 49° 04' 40" E 42.54'
PB 4114 PG 596
S 68° 22' 40" E 1,301.49'

HINASSEE ROAD (60' R/W)
SR 2426
N 32° 25' 55" W 41.73'
S 85° 32' 55" W, 41.92'
R=235.26'
L=139.23'

60' EASEMENT DB 4114, PG 596

JACK D. WILLIAMS, JR.
9.836 Ac.
(REMAINDER)
4114-596
ZONING: R
Tax ID: 01132101
13500 HINASSEE RD

SET #5 REBAR
N 21° 37' 20" E 325.58'
PARCEL A
± 2.429 Ac
141' 193' 147' 105' 55' 120' 130'
N 68° 22' 40" W 365.00'
S 68° 22' 40" E 365.00'
S 21° 37' 20" W 325.58'
S 21° 37' 20" W 672.24'
S 14° 14' 38" W 461.24'
EXIST. #4 REBAR

DAVID L. ROSEMAN
6857-814
Tax ID: 01132102
15605 HUNTINGTOWNE VILLAGE RD.

I, Frederick Lee Gore, certify that this plat was drawn under my supervision from an actual field survey; that the ratio of precision is greater than 1:10000; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number L-3043, and seal this 30th day of September, 2015.

13400 HINASSEE RD.
ALAN D. BAKER
4750-640
Tax ID: 01132107

EXIST. #4 PIPE
HUNTINGTOWNE VILLAGE ROAD (60' R/W)
EXIST. #4 PIPE

Tax ID: 01132106
15440 HUNTINGTOWNE VILLAGE RD.
N/F
MICHAEL K. INGRAM
9811-811

S 25° 10' 56" W 85.76'

OWNER CERTIFICATION

I hereby certify that I am the owner of the property shown and described hereon and that I hereby adopt this plan of subdivision with my free consent, and dedicate all streets, alleys, walks, parks, and other sites and easements to public or private use as noted. Furthermore, I dedicate all sewer lines and all water lines to the Charlotte-Mecklenburg Utility Department, if applicable.

Owner(s) — 10-19-15 Date

REVIEW OFFICER BLOCK

I, DAVID FORTE, REVIEW OFFICER OF MECKLENBURG COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER — 10-15-15 Date

Frederick Gore, PE, PLS
Engineering · Planning · Surveying
8321 Bellingham Ct.
Charlotte, NC 28216
(704) 900-4058

Plat of Parcel "A"
To Be Divided from The Land of Jack D. Williams
Huntersville Township
Mecklenburg County, North Carolina

Drawn By: MW/TTR
Approved By: FLG
Date: 08/25/2015
Scale: 1" = 100'
Drwg. File: Huntingtowne

OWNED: JACK D. WILLIAMS, JR.
13500 HINASSEE RD
HUNTERSVILLE, NC 28078
(704-562-2515)

Jack Williams 10-18-15

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 10/22/15
Receipt #: 96500
Check / Auth #: VISA 022235
Received By: ELLISLW

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: WILLIAMS,TALMA M
Attn:
Address: 13500 HIWASSEE ROAD
Address:
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 15445 HUNTINGTOWNE VILLAGE RD		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
	370.00				

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: TALMA M. WILLIAMS

Bill To:

TALMA M. WILLIAMS
13500 HIWASSEE ROAD

Huntersville, NC 28078

Single Payment

Transaction Date: 10/22/2015 12:15 PM Pacific Time
Pay Method: VISA **********6166
Approval #: 022235
Trace Number: 5787d78d-c222-433e-9ba4-ac01e658aec2
Amount: $250.00

Payment Amount: $250.00

Total: $250.00

Thank you for your payment.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	03/11/16	**Amount:**	200.00
Receipt #:	99410	**Tendered:**	200.00
Check / Auth #:	VISA 011148	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #:	200000
Contractor:	WILLIAMS,TALMA
Attn:	
Address:	13500 HIWASSEE ROAD
Address:	
City/State/Zip:	HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat HUNTINGTOWNE VILLAGE RD		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
860.00	130.00				

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here: TALMA WILLIAMS

Bill To:

TALMA WILLIAMS
13500 HIWASSEE ROAD

Huntersville, NC 28078

Single Payment

Transaction Date: 03/11/2016 1:05 PM Pacific Time
Pay Method: VISA **********6166
Approval #: 011148
Trace Number: c11c0af3-04f2-4053-a63d-3eb821e0e8e7
Amount: $400.00

Payment Amount: $400.00

Total: $400.00

Thank you for your payment.

S

FEE: 200.00
DATE:3/16/2016

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9320B

PERMIT NUMBER: 30007849

PARCEL NUMBER: 01132101

JOB LOCATION INFORMATION

ADDRESS: 15445 HUNTINGTOWNE VILLAGE RD

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: JONATHAN MARTIN WILLIAMS

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 3/11/2016

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007849, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 011-321-01
Lot #: NA
File #: 9320B
AppID: 7849

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Property Owner: Jonathan Williams
Address: 13500 Hiwassee Rd, Huntersville, NC 28078
Proposed Facility: 3 Bedroom House
Design Flow (.1949): 360 GPD
Location: 15445 Huntingtowne Village Rd, Huntersville, NC 28078
Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 11/17/15
Property Size: 2.429 ac
Property Recorded: 10/16/2015

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	SAND LINED TRENCH SYSTEM Profile Class & LTAR	SAND LINED TRENCH SYSTEM TRENCH DEPTH
Pit #1	R 2%	0 - 8	gr SCL	SS SP FR SEXP						PS IV 0.3 using LPP Distr--ibution	Install at 60"
		8 - 27	mass C	S VP VFI EXP	2 chroma	8	PS	NA			
		27 - 49	mass SCL	S P VFI EXP	8 - 27"		49-84"				
		49 - 84	mass SL/LS	SS SP FR SEXP							
Pit #2	R 3%	0 - 8	gr SCL	SS SP FR SEXP						PS IV 0.3 using LPP Distr--ibution	Install at 60"
		8 - 18	mass C	S VP VFI EXP	2 chroma	8	PS	NA			
		18 - 52	mass SCL	S P VFI EXP	8 - 18"		52-82"				
		52 - 84	mass SL/LS	SS SP FR/FI SEXP							
Pit #3	R 2%	0 - 8	gr SCL	SS SP FR SEXP						US	NA
		8 - 20	mass C	S VP VFI EXP	2 chroma	8	PS	NA	VFI inclusions		
		20 - 40	mass SCL	S P VFI EXP	8 - 20"		40-79"		40 - 79"		
		40 - 79	mass SL/LS	SS SP VFI SEXP							
Pit #4	SS 4%	0 - 8	gr SCL	SS SP FR SEXP						US	NA
		8 - 16	mass C	S VP VFI EXP	2 chroma	8	US	NA	FR/FI inclusions		
		16 - 29	mass SCL	S P VFI EXP	8 - 16"				29 - 78"		
		29 - 76	mass SL	SS SP VFI EXP							
Pit #5	SS 5%	0 - 10	gr SCL	SS SP FR SEXP						US	NA
		10 - 40	mass C	S VP VFI EXP	2 chroma	10	US	NA			
		40 - 50	mass SCL	S P VFI EXP	10 - 40"						
		50 - 75	mass SL/LS	SS SP VFI EXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IVa	IVa
Site LTAR (gpd/sq ft)	0.3*	0.3*

***LTAR only valid for area of pits 1, 2, 6, 7, & 8 using a Low Pressure Pipe dosed Sand Lined Trench System.**

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, REHS, LSS JPS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Kim McInnes, REHS
Others Present:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #6	R 3%	0 - 6	gr SCL	SS SP FR SEXP	2 chroma 6 - 12"	6	PS 33-80"	NA		PS IV 0.3 using LPP Distr--ibution	Install at 60"
		6 - 12	mass C	S VP VFI EXP							
		12 - 33	mass SCL	S P VFI EXP							
		33 - 60	mass SL/LS	SS SP FR SEXP							
		60 - 80	mass SL/LS	SS SP FI SEXP							
Pit #7	R 3%	0 - 7	gr SCL	SS SP FR SEXP	2 chroma 6 - 12"	7	PS 46-80"	NA		PS IV 0.3 using LPP Distr--ibution	Install at 60"
		7 - 16	mass C	S VP VFI EXP							
		16 - 26	mass SCL	S P VFI EXP							
		26 - 46	mass SL/LS	SS SP VFI/FI SEXP							
		46 - 80	mass SL/LS	SS SP FR SEXP							
Pit #8	LS 3%	0 - 8	gr SCL	SS SP FR SEXP	2 chroma 8 - 33"	8	PS 33-80"	NA		PS IV 0.3 using LPP Distr--ibution	Install at 60"
		8 - 33	mass SCL	S P VFI EXP							
		33 - 80	mass SL/LS	SS SP FI/FR SEXP							
Pit #9	LS 3%	0 - 8	gr SCL	SS SP FR SEXP	2 chroma 8 - 25"	8	US	NA		US	NA
		8 - 25	mass SCL	S P VFI EXP							
		25 - 70	mass SL/LS	S P VFI EXP							



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

GWS Septic System Design Review Approved ☐ Disapproved ☐

GWS File #: 93208

Design Review: ☑

Field Review: ☑

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Reference: Data Sheet for Parcel A of PIN# 1132101; Huntingtowne Village Road
Mecklenburg County, NC

House Footprint: 94'x 60'
Foundation Type: Crawl Space
Building Setbacks: 50' front
Water Source: Private Well
Number of Bedrooms: 3/360 GPD
Proposed Initial LTAR: 0.25 GPD/FT2
Proposed Repair LTAR: 0.3 GPD/FT2
Proposed System Type: Sand Lined Trench with 12" of gravel (see attached diagram)
Proposed Repair System Type: Sand Lined Trench with 12" of gravel (see attached diagram)
Distribution: LP-CVB with 1.5" PVC for each lateral
Flow per Orifice: .59
Hole Size & Material: 3/16"; 1 hole per every 7' of lateral line
System Flow: 37.8 gal/min
Dosing Volume: 210.00 gal/dose
Pump Run Time: 5.56 min
Total Linear Footage: 480'
Trench Bottom Square Footage: 1440 sq.ft
Elevation Head: 6'
Friction Head: 1.39'
Pressure Head: 2'
Total Dynamic Head: 9.39'
Supply Line Length: 75'
Proposed Trench Bottom Depth: 60"
Septic/ Pump tank size: 1000 ST, 1000 PT

Line	Design Length	Repair Length	Actual Length	Elevation
Orange 0		60'	60'	3.2'
Blue 1		100'	100'	3.5'
Pink 2	**60'**	45'	**110'**	**3.5'**
White 3	**60'**	55'	**120'**	**3.8'**
Blue 4	**60'**		**60'**	**3.9'**

White 5	**60'**		**68'**	**4.4'**
Orange 6	**60'**		**66'**	**4.6'**
White 7	**60'**		**71'**	**5.2'**
Blue 8	**60'**		**74'**	**5.5'**
Orange 8	**60'**		**72'**	**6.1'**
Blue 10		70'	70'	6.5'
White 11		71'	71'	6.9'

Initial System: 480' **Repair System:** 401'
House Corner: 4.7' **Pump Tank:** 4.5'
Bench Mark: 4.2' on left property line; 143' from front iron.

Comments:

- The purpose of this evaluation is to have the property permitted for a 3-bedroom residence.
- MA&A evaluated the site using multiple back hoe pits.
- We are proposing to use a sand lined trench to a depth of 60". Each trench will be dug to 60" and then back filled with 36" of class I soils (Sand or Loamy Sand). The soil will need to be approved by MA&A prior to installation. On top of the sand a typical 12" gravel drain line should be installed using Low Pressure Pipe to distribute the effluent. Then 12" of cover should be added. See attached diagram.
- The house site has been marked using pink pin flags.
- No cuts of 2' or greater within 15' of the septic area.

White 5	**60'**		**68'**	**4.4'**
Orange 6	**60'**		**66'**	**4.6'**
White 7	**60'**		**71'**	**5.2'**
Blue 8	**60'**		**74'**	**5.5'**
Orange 8	**60'**		**72'**	**6.1'**
Blue 10		70'	70'	6.5'
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- No cuts of 2' or greater within 15' of the septic area.

Figure 1. Trench Design

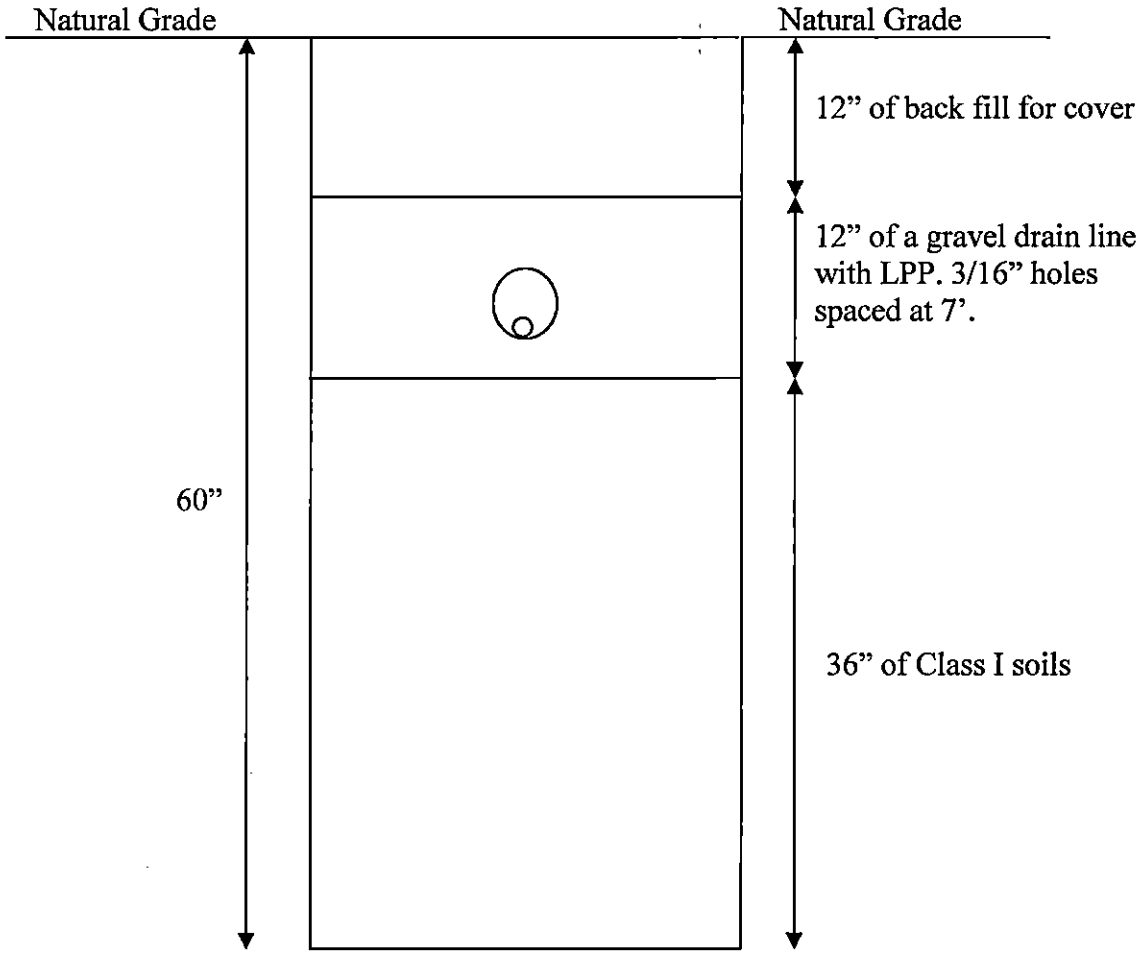
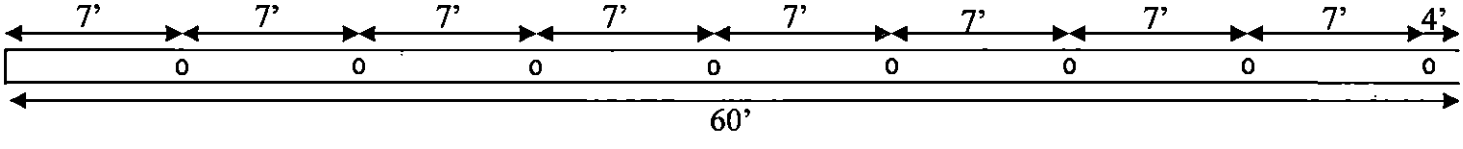
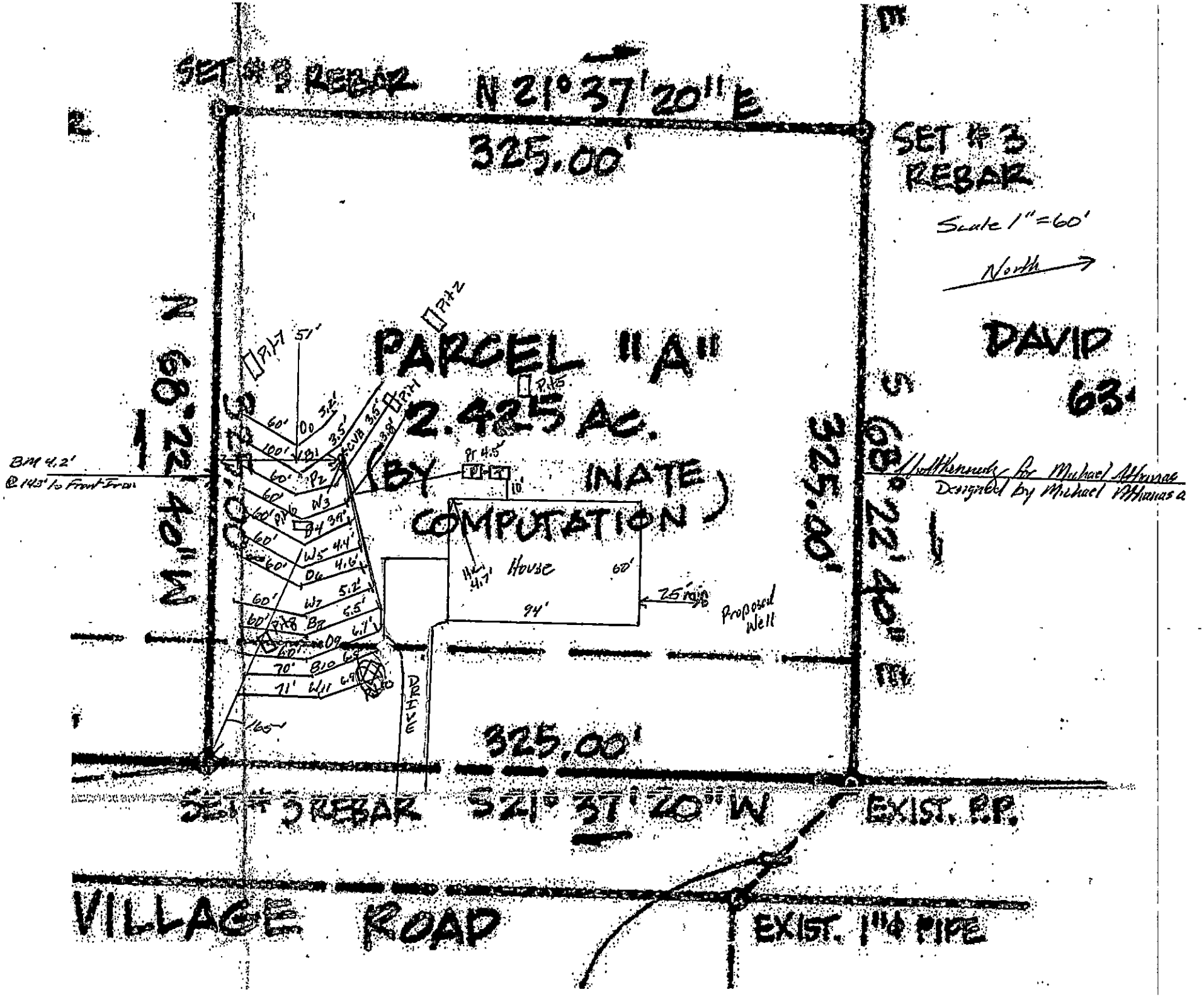


Figure 2. LPP Pipe Design

- LPP Pipe – 1.5"; 60' in length
- Hole size – 3/16"; every 7'




SET #3 REBAR
N 21° 37' 20" E
325.00'
SET #3 REBAR
Scale 1"=60'
North
PARCEL "A"
2.425 Ac.
(BY INATE COMPUTATION)
DAVID
63
House
94'
60'
25' min
Proposed Well
DRIVE
325.00'
SET #3 REBAR
S 21° 37' 20" W
EXIST. R.R.
VILLAGE ROAD
EXIST. 1" PIPE
BM 4.2'
@ 143' to Front From
Designed by Michael Mihaas a

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

PROPERTY ID #: Huntingtowne Village Road
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Jack Williams
APPLICATION DATE_____
ADDRESS: 13500 Hiwassee Road Huntersville, NC 28078
DATE EVALUATED: 12/2015
PROPOSED FACILITY: 3-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 360 GPD
PROPERTY SIZE: 2.43 Acres
LOCATION OF SITE: Huntingtowne Village Road
PROPERTY RECORDED: Not 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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 1	L 2-3%	0"-18"	Br L GR	SS SP FR SEXP		18"	PS below 36"	None	.3 using LPP
		18"-36"	V SCL Saporlite M	SS SP FR SEXP					
		36"-52"	V SL Saporlite M; w/ Few C Inclusions	SS SP FR SEXP					
		52"-84"	V SL Saporlite M; No C Inclusions	SS SP FR SEXP					
Pit 2	L 2-3%	0"-3"	Br CL WSBK	SS SP FR SEXP	Chr. 2 @ 3"-10" and 23"-60" w/ Mn	23"	Few to common Saporlite inclusions 10"-23"	None	Unsuitable
		3"-10"	RY C M	VS VP VFI EXP					
		10"-23"	RY CL WSBK	SS SP FR SEXP					
		23"-60"	V SL Saporlite M	SS SP FR SEXP					
Pit 6	L 2-3%	0"-12"	YBr C ABK/M	SS SP FR SEXP		12"	PS below 38"	None	.3-.25 using LPP
		12"-38"	V SCL Saporlite M	SS SP FR SEXP					
		38"-85"	V SL Saporlite M	SS SP FR SEXP					
Pit 8	L 2-3%	0"-7"	Br CL WSBK	SS SP FR SEXP		7"	PS below 16"	None	.3-.25 using LPP
		7"-16"	V SL/SCL Saporlite M	SS SP FR SEXP					
		16"-48"	V L Saporlite M	SS SP FR SEXP					
		48"-85"	V SL/LS Saporlite M	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	1203 FT2
System Type(s)	Sand Lined Trench	Sand Lined Trench
Site LTAR	.25	.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT: _____

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)

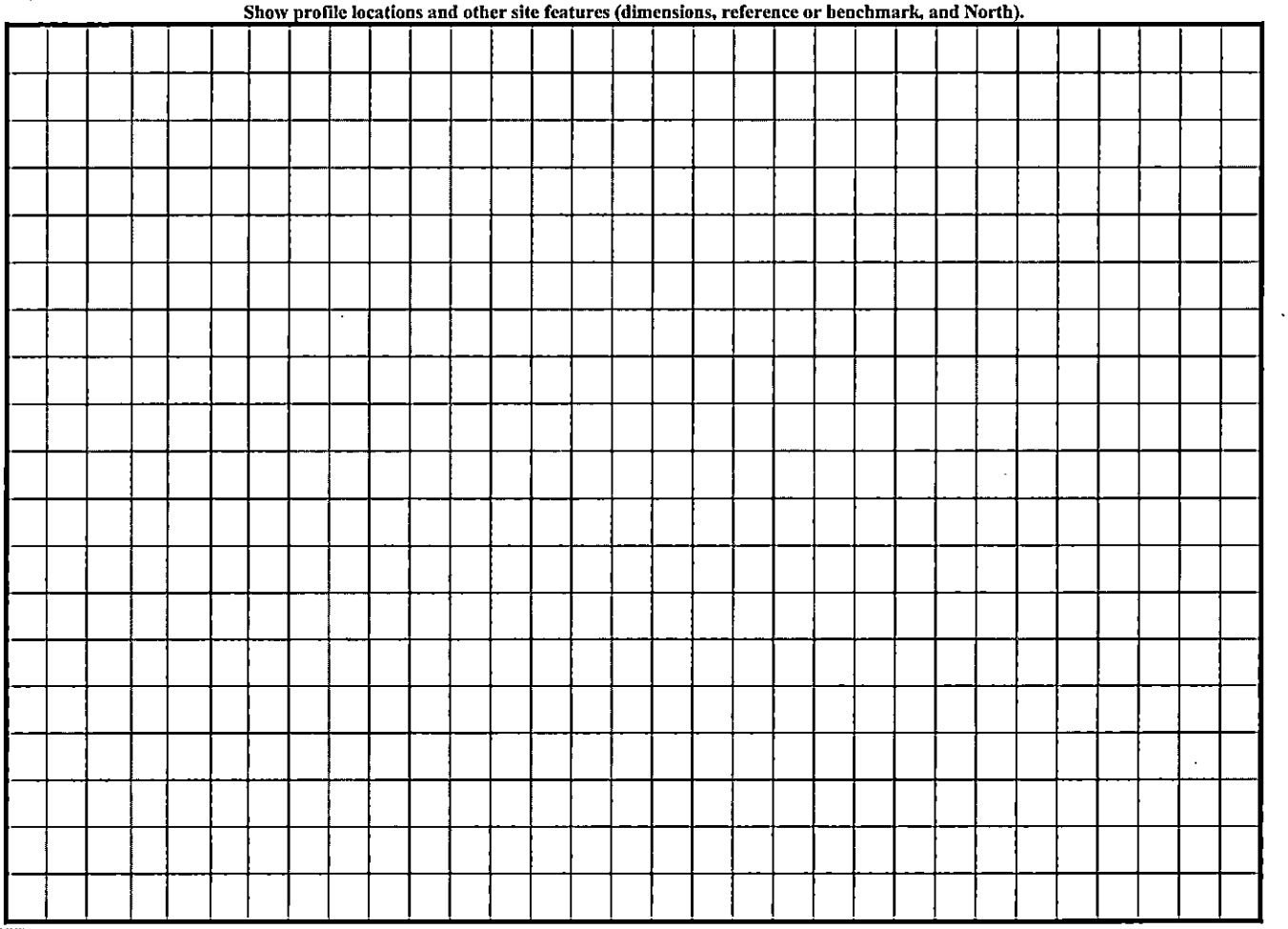
SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

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).



DENR (######)

Review (#####)

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: Huntingtowne Village Rd
DATE OF EVALUATION: 12/2015
COUNTY: Mecklenburg

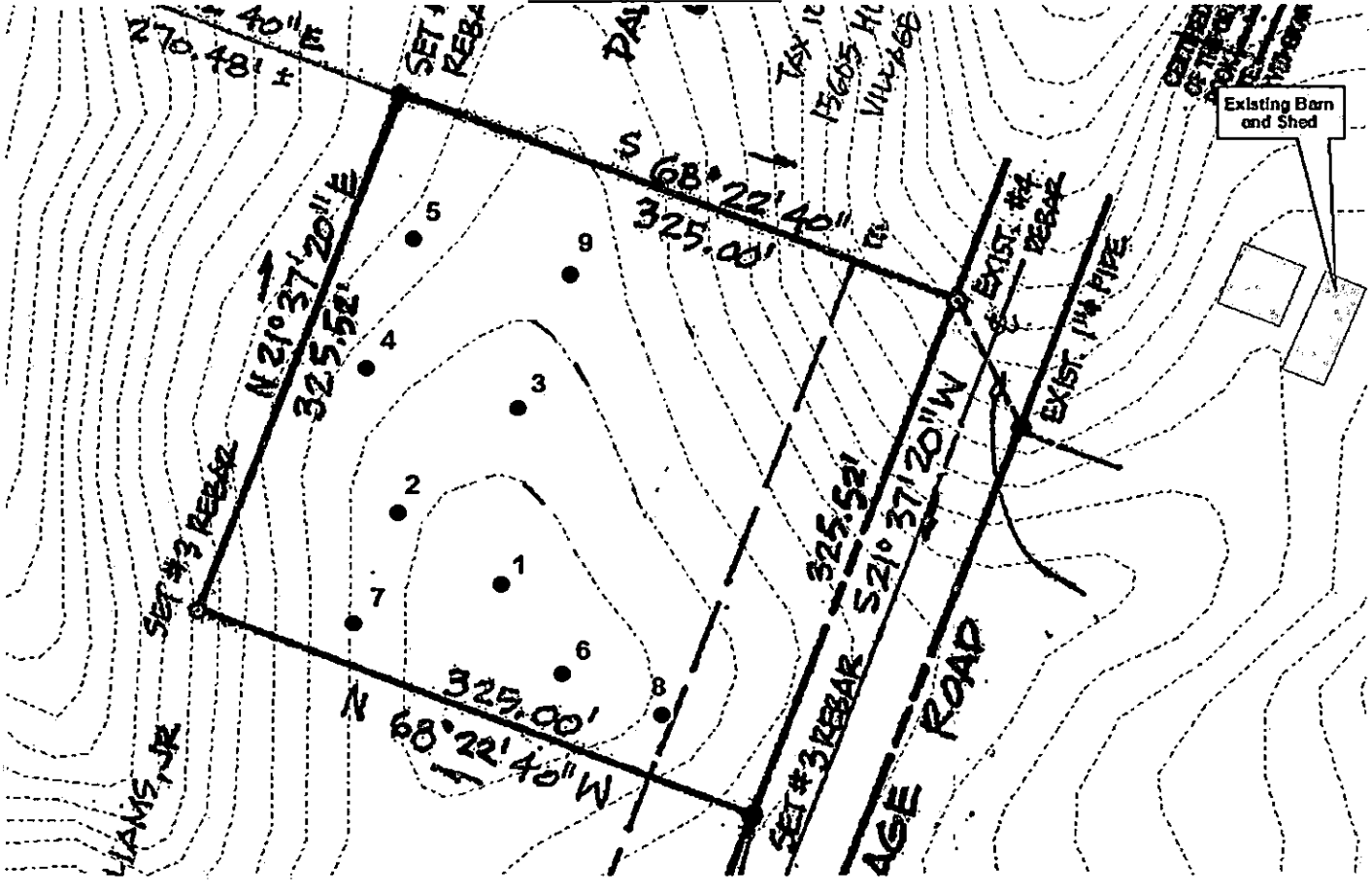
PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
Pit 10	L 2-3%	0"-14"	Br C WABK/M; Expansive Characteristics	SS SP FR EXP	Common Mn 0"-14"	14"	PS Below 48"	None	.3-.25 using LPP
		14"-48"	V CL Saporlite M; Few to common C inclusions	SS SP FR SEXP					
		48"-85"	V SL Saporlite M;	SS SP FR SEXP					

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
		SiCL-Silty Clay Loam		
CV-Convex Slope				pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak m-moderate s-strong f-fine m-medium c-coarse
		Silt		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence	**Consistence**	**Mineralogy**
Moist	**Wet**	SEXP-Slightly Expansive
VFR-Very Friable	SS-Slightly Sticky	EXP-Expansive
FR-Friable	S-Sticky	
FI-Firm	VS-Very Sticky	**Classification**
VFI-Very Firm	NP-Non-Plastic	US-Unsuitable
EFI-Extremely Firm	SP-Slightly Plastic	PS-Provisionally Suitable
	P-Plastic	S-Suitable
	VP-Very Plastic	NA-Not Applicable

Soil Boring Location Sketch



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6694

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30007849 GWS File #: 9320B Tax Parcel #: 011-321-11

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/13/2021

Type of Installation: Residential - New System Lot Number: 0

Structure Type: HOUSE Size (ft^2): 2654 # Bedrooms: 3 # Occupants: 2

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Low Pressure Pipe (LPP) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd): 360 LTAR (gpd/ft^2): .25 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 1440 Total Trench Length (ft): 480

Maximum Trench Depth (in): 60 Depth of Media (in): 48 Distribution Device: Manifold (LPP Distri

III. Repair System Type: Low Pressure Pipe (LPP) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd): 360 LTAR (gpd/ft^2): .3 Septic Tank Size (gal): 1000 Pump Tank Size (gal): 1000

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 1200 Total Trench Length (ft): 400

Maximum Trench Depth (in): 60 Depth of Media (in): 48 Distribution Device: Manifold (LPP Distri

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Kim Garrett Owner/Legal Agent: Jonathan M. Williams
Print Name

Signature: Kim Garrett, REHS Signature:

Date Issued: 1/13/2016

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30007849 GWS File #: 9320B

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The system must be water tested during the final inspection to verify proper operation and set system pressure.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Kim Garrett

Signature: Kim Garrett, REHS

Date Issued: 1/13/2016

Owner/Legal Agent: Jonathan M. Williams
Print Name

Signature:



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

GWS Septic System Design Review — Approved ☐ Disapproved ☐
GWS File #: 9320B
Design Review: ☑
Field Review: ☑
*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Reference: Data Sheet for Parcel A of PIN# 1132101; Huntingtowne Village Road Mecklenburg County, NC

House Footprint: 94'x 60'
Foundation Type: Crawl Space
Building Setbacks: 50' front
Water Source: Private Well
Number of Bedrooms: 3/360 GPD
Proposed Initial LTAR: 0.25 GPD/FT2
Proposed Repair LTAR: 0.3 GPD/FT2
Proposed System Type: Sand Lined Trench with 12" of gravel (see attached diagram)
Proposed Repair System Type: Sand Lined Trench with 12" of gravel (see attached diagram)
Distribution: LP-CVB with 1.5" PVC for each lateral
Flow per Orifice: .59
Hole Size & Material: 3/16"; 1 hole per every 7' of lateral line
System Flow: 37.8 gal/min
Dosing Volume: 210.00 gal/dose
Pump Run Time: 5.56 min
Total Linear Footage: 480'
Trench Bottom Square Footage: 1440 sq.ft
Elevation Head: 6'
Friction Head: 1.39'
Pressure Head: 2'
Total Dynamic Head: 9.39'
Supply Line Length: 75'
Proposed Trench Bottom Depth: 60"
Septic/ Pump tank size: 1000 ST, 1000 PT

Line	Design Length	Repair Length	Actual Length	Elevation
Orange 0		60'	60'	3.2'
Blue 1		100'	100'	3.5'
Pink 2	60'	45'	110'	3.5'
White 3	60'	55'	120'	3.8'
Blue 4	60'		60'	3.9'

Figure 1. Trench Design

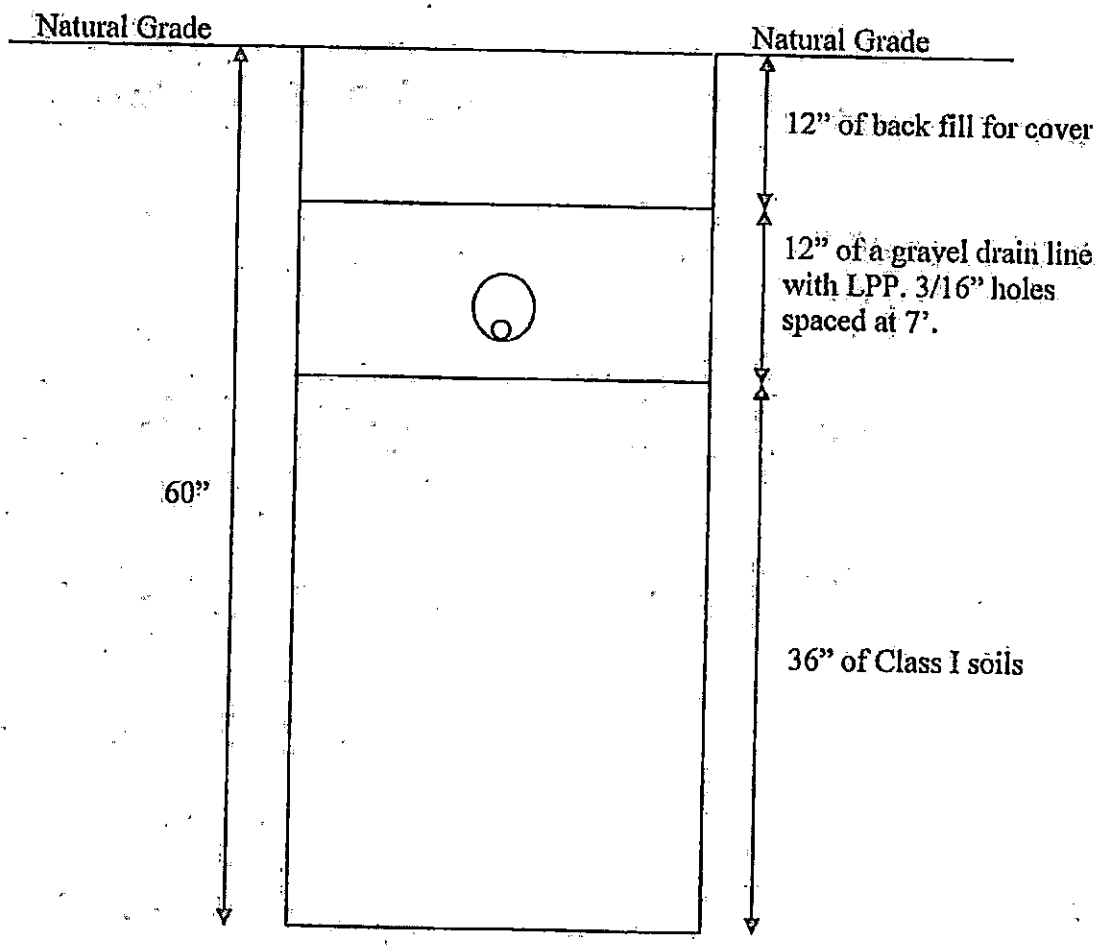
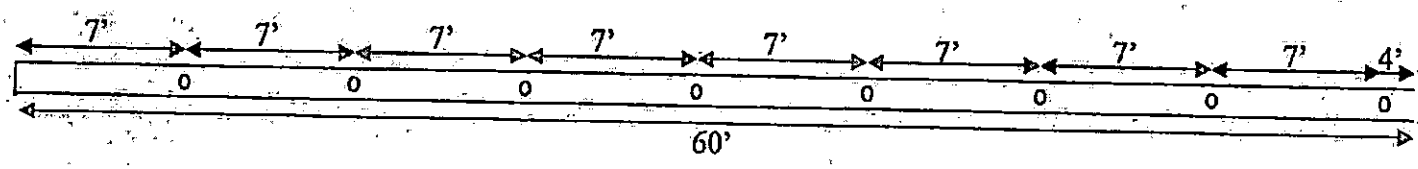
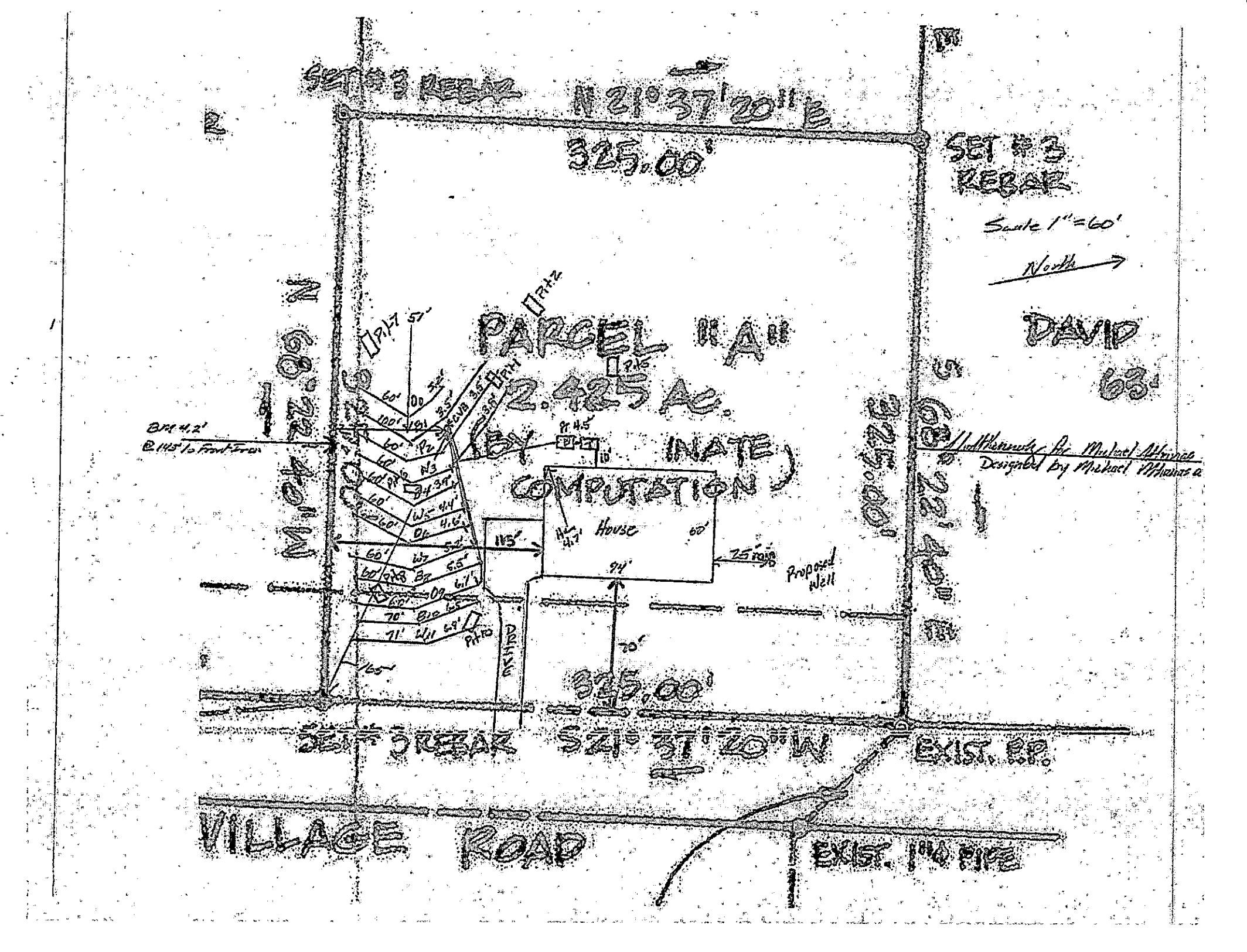


Figure 2. LPP Pipe Design

- LPP Pipe – 1.5"; 60' in length
- Hole size – 3/16"; every 7'




SET #3 REBAR
N 21° 37' 20" E
325.00'
SET #3
REBAR
Scale 1" = 60'
North
PARCEL "A"
2.425 AC.
(BY INATE
COMPUTATION)
DAVID
63'
House
60'
115'
94'
75' min.
Proposed Well
70'
325.00'
SET #3 REBAR
S21° 37' 20" W
EXIST. I.P.
VILLAGE ROAD
EXIST. 10" PIPE
DRIVE

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File #93206 App #3000 7849 Tax Parcel #011-321-11

Property Owner: Jonathan & Courtney Williams

Job Location Address: 15445 Huntingtowne Village Rd

City: Huntersville State: NC Zip Code: 28078

1. **Does System design match facility, flow & wastewater characteristics?**

   ☒ YES ☐ NO

   Comments: _____

2. **Is there sufficient available space for the septic systems initial and repair areas?**

   ☒ YES ☐ NO

   Comments: _____

3. **Can the septic system be installed per the permit conditions and drawing on file?**

   ☒ YES ☐ NO

   Comments: _____

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Kim Garnett — Authorized Agent

12/14/15 — Date

Steve McAlister & Jay Ervin — Others Present

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9320B Permit #: 20001849 Tax Parcel #: 011-321-11

Property Owner: Jonathan & Courtney Williams

Job Location Address: 19445 Huntingtowne Village Rd.

City: Huntersville State: NC Zip Code: 28078

Operation Permit Issuance Date: 2/13/17 Contractor Name: Jay Ervin #2968, Steve McAlister #2987

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Manufacture: Delinger Effluent Pump Model: Goulds WE0129941

Drainfield Installation ☐ N/A

Trench Depth: 60 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 480 feet

# of Lines: 8 @ 60 feet

Depth of Media: 48 inches (Type) sand/gravel

Depth of Cover: 12 inches

Distribution Device: pressure manifold

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: >10 feet

Distance from Property Line: >10 feet

Distance from Water Supply Source: >50 feet

Inspection Dates

Tank(s) Inspected: 12/14/16

Excavation Inspected: 12/14 - 12/15/16

Pump & Controls Inspected: 12/15 - 2/13/17

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

Installed As Per Design
by Michael Athanas.

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☒ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IV a, sand or gravel, pressure, deep, n/a

DHHS Authorized Agent: Kim Garrett, REHS Signature: Kim Garrett REHS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9320 B Permit #: 3000 7849 Tax Parcel #: 011-321-11

Property Owner: Jonathan & Courtney Williams

Job Location Address: 15445 Huntingtowne Village Blvd

City: Huntersville State: NC Zip Code: 28078

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IVa

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☒ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Kim Hamett, REHS Date: 2/13/17

Signature: Kim Hamett REHS

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 03/11/16
Receipt #: 99409
Check / Auth #: VISA 011148
Received By: ELLISLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: WILLIAMS,TALMA
Attn:
Address: 13500 HIWASSEE ROAD
Address:
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit HUNTINGTOWNE VILLAGE RD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
860.00	130.00				

Garrett, Kimberly

From: Garrett, Kimberly
Sent: Monday, April 11, 2016 1:31 PM
To: 'mike@michaelathanas.com'
Subject: 15445 Huntingtowne Village Rd

Mike,

Jonathan Williams contacted me concerning the location of their home. They would like to slide their house back 20 additional feet from the current location on the permit. I wanted to check with you to get your approval for that move. It appears that the septic system design would not be affected by the move.

Please let me know if this will meet with your approval as we will need to have a letter from you at the time that the system is installed confirming that the system was installed according to your design.

Thank you,
Kim

Kim Garrett, REHS
Environmental Specialist
Environmental Health Program
Mecklenburg County Health Department
980-721-2054 (cell)
kimberly.garrett@mecklenburgcountync.gov

CONFIDENTIALITY NOTICE: *This message and any attachments included are from the Mecklenburg County Health Department and are for sole use by the intended recipient(s). The information contained herein may include confidential or privileged information. Unauthorized review, forwarding, printing, copying, distributing, or using such information is strictly prohibited and may be unlawful. If you received this message in error, or have reason to believe you are not authorized to receive it, please contact the sender by reply email and destroy all copies of the original message. Thank you!*

Garrett, Kimberly

From: Tammy <tammymw192@gmail.com>
Sent: Sunday, April 17, 2016 12:10 PM
To: Garrett, Kimberly
Subject: Re: Well Permit - 15445 Huntingtowne Village Road

Hey Kim. Thank you so much for handling the well situation and the house. I will get a signed copy to you later in the day. Thanks again. Tammy

Sent from my iPhone

> On Apr 17, 2016, at 12:02 PM, Garrett, Kimberly <Kimberly.Garrett@mecklenburgcountync.gov> wrote:
>
> Hi Tammy,
>
> Attached is your well permit. Once you have signed the 2 pages the permit is valid and you can forward a copy to your well contractor. Please forward a copy of the signed permit to me also for the file.
>
> Michael called me late Friday afternoon to say that it would be fine to slide the house back another 20' or so. Please take care as to not impact the amount of room on the septic side of the house.
>
> Let me know if there is anything else you need.
>
> Thank you,
> Kim
>
>
> Kim Garrett, REHS
> Environmental Specialist
> Environmental Health Program
> Mecklenburg County Health Department
> 980-721-2054 (cell)
> kimberly.garrett@mecklenburgcountync.gov
>
> CONFIDENTIALITY NOTICE: This message and any attachments included are from the Mecklenburg County Health Department and are for sole use by the intended recipient(s). The information contained herein may include confidential or privileged information. Unauthorized review, forwarding, printing, copying, distributing, or using such information is strictly prohibited and may be unlawful. If you received this message in error, or have reason to believe you are not authorized to receive it, please contact the sender by reply email and destroy all copies of the original message. Thank you!
>
>
>
>
> -----Original Message-----
> From: Tammy [mailto:tammymw192@gmail.com]
> Sent: Tuesday, April 12, 2016 8:51 PM
> To: Garrett, Kimberly <Kimberly.Garrett@mecklenburgcountync.gov>
> Subject: Re: Well Permit - 15445 Huntingtowne Village Road
>
> Hello Kim,

> Just following up on this request for the well permit. Also wanted to check and see about moving the house if it is at all possible. Thank you so much. Tammy
>
> Sent from my iPhone
>
>> On Apr 7, 2016, at 4:11 PM, Garrett, Kimberly <Kimberly.Garrett@mecklenburgcountync.gov> wrote:
>>
>> Yes. I'll look at the paperwork tomorrow and should have a permit to you by early next week.
>>
>> Thank you.
>>
>> Kim Garrett, REHS
>> Environmental Specialist
>> Environmental Health Program
>> Mecklenburg County Health Department
>>
>>
>>> On Apr 7, 2016, at 4:09 PM, Tammy Williams <tammymw192@gmail.com> wrote:
>>>
>>> Hello Kim,
>>>
>>> I spoke with you earlier this morning about the well permit at the above address.
>>>
>>> I spoke with Ms. Ellis and she is using the same application I had already submitted and I did pay her for it as well.
>>>
>>> So, does that take care of what we needed for the well permit?
>>>
>>> Thanks,
>>>
>>> Tammy Williams
>>> 704-962-7740
> <15445 Huntingtowne Village Rd.pdf>

wellreg@mecklnc.gov Loretta Ellis [redacted]
980-314-1632
704-336-5103

93208 #995

MECKLENBURG COUNTY
HEALTH DEPARTMENT

30 OCT '18 AM 9:5

APPLICATION FOR APPROVAL TO USE AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM / WATER SUPPLY WELL

APPLICATION TYPE: ○ SEPTIC ONLY ○ WELL ONLY ☒ SEPTIC & WELL
○ ADDITION OR RENOVATION WITH OCCUPANCY INCREASE ○ EXCHANGE MOBILE HOME (SAME # BEDROOMS)
☒ ADDITION OR RENOVATION WITH NO OCCUPANCY INCREASE ○ COMMERCIAL OR INDUSTRIAL

PERSON FILING APPLICATION:
NAME: Jonathan Williams
ADDRESS: 15445 Huntingtowne Village Road
CITY: Huntersville
STATE: NC ZIP: 28078
PHONE: 704-562-0259
ALTERNATE PHONE:
E-MAIL: jonathanwilliams755@outlook.com

JOB LOCATION INFORMATION
TAX PARCEL #: 01132101
STREET ADDRESS: 15445 Huntingtowne village Rd
CITY: Huntersville
STATE: NC ZIP: 28078

PROPERTY OWNER: ☒ SAME AS PERSON FILING APPLICATION
NAME:
ADDRESS:
CITY:
STATE: ZIP:
PHONE:
ALTERNATE PHONE:
E-MAIL:

SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #:

WATER SUPPLY:
○ MUNICIPAL ☒ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER

RESIDENTIAL PROPERTY TYPE: ○ N/A
☒ HOUSE ○ MODULAR HOME ○ MULTIPLE FAMILY
○ SINGLE MOBILE HOME ○ DOUBLE WIDE
○ OTHER

OCCUPANCY (both fields are required):
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 3

COMMERCIAL / INDUSTRIAL PROPERTY TYPE: ☒ N/A
TYPE OF BUSINESS:
EMPLOYEES PER SHIFT:
OF SHIFTS:
INDUSTRIAL WASTES? ○ YES ○ NO
UNDERGROUND STORAGE TANKS? ○ YES ○ NO

ADDITION/RENOVATION TYPE ATTACHED TO EXISTING STRUCTURE:
☐ BEDROOM ☐ BATHROOM ☐ KITCHEN ☐ DINING ROOM ☐ LIVING ROOM ☐ DEN
☐ GARAGE ☐ SUNROOM ☐ PORCH ☐ DECK ☐ OTHER

ADDITION/RENOVATION TYPE DETACHED FROM EXISTING STRUCTURE:
☐ DETACHED GARAGE ☐ DETACHED GARAGE WITH PLUMBING ☐ POOL HOUSE ☒ SHOP ☐ BARN
☐ STORAGE SHED ☐ DETACHED PORCH / DECK ☐ OTHER

*The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature 10/26/18 Date

A PROPOSED PLOT PLAN (see page 2) is required to be submitted with each application.

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202. OFFICE: 704-336-5103, FAX: 704-336-8894

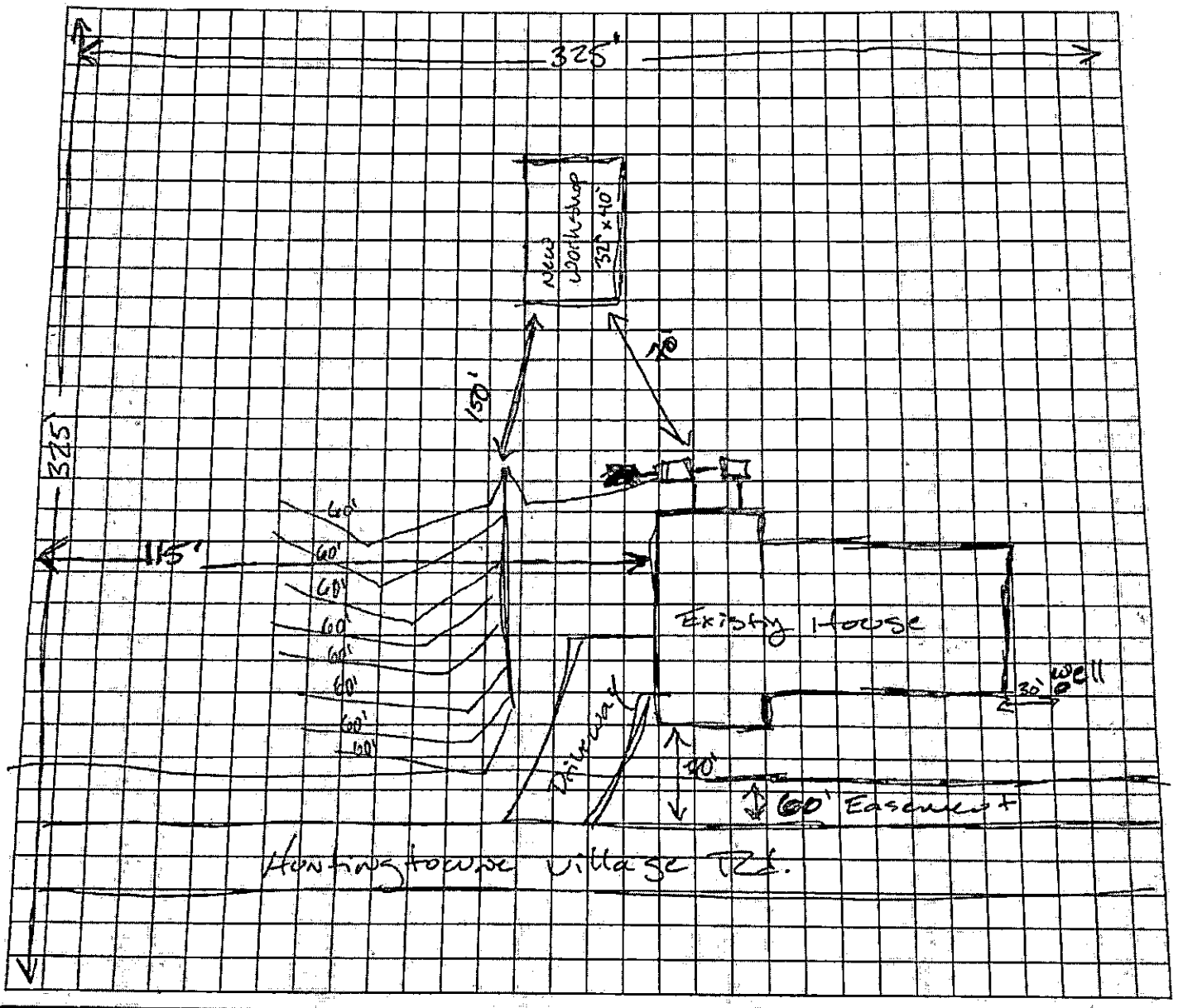
Revised on: 01/03/11

File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 15445 Huntingtowne village Rd, Huntersville NC Tax Parcel #: 01132101



*The undersigned, an authorized agent of the Mecklenburg County Health Department, certifies that the Department has approved the Request for the "Job Location" contained in this document. This approval is granted in accordance with the provisions of Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal and Water Supply Wells in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an installation, construction, alteration and/or repair approval is granted by this Department.
- This permit is not transferable.
- Addition/Renovation approval valid 1 year from issuance date
- Mobile home exchange approval valid 6 months from issuance date

Project approved. Meets >5' off septic & >50 25' off well

REHS Signature _____ Date 10/31/18

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 01/03/

Payment Receipt

Mecklenburg County POS

Environmental Health
700 N. Tryon Street
Charlotte, NC 28202
Phone: 704-336-5100

Enter Account # or Customer Name Here:
JONATHAN WILLIAMS

Bill To:

JONATHAN WILLIAMS
15445 HUNTINGTOWNE VILLAGE RD

Huntersville, NC 28078

Single Payment

Transaction Date: 10/30/2018 8:29 AM Pacific Time
Pay Method: VISA **********4469
Approval #: 030767
Trace Number: c16b1d86-8e66-4322-8d3a-3ac28df579fd
Amount: $100.00

Payment Amount: $100.00

Total: $100.00

Thank you for your payment.

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	10/30/18	**Amount:**	100.00
Receipt #:	113553	**Tendered:**	100.00
Check / Auth #:	VISA 030767	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: WILLIAMS, JONATHAN
Attn:
Address: 15445 HUNTINGTOWNE VILLAGE RD
Address:
City/State/Zip: HUNTERSVILLE, NC 28078

Item	Description	Permit#	Quantity	Unit Price	Total Price
0705	Use Existing System 15445 HUNTINGTOWNE VILLAGE RD		1	100.00	100.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance