IREDELL COUNTY HEALTH DEPARTMENT - ENVIRONMENTAL HEALTH ☐ STATESVILLE OFFICE

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

DATE August 12, 2011

PERMIT # 16790 / 213884 PIN # 4638 23 6645 PHONE: Home/Cell # Business # 704-778-7410

OWNER John (chip) Suther APPLICANT: same OWNER / APPLICANT ADDRESS 106 Ballston Dr. Mooresville NC 28117

SITE ADDRESS 680 Normandy Rd. Mooresville

SITE DIRECTIONS 150 w TR Perth Tr Normandy on right

SUBDIVISION CL4T BLOCK / SECTION 11 LOT # 150 LOT AREA .87 Ac. DESIGN FLOW 480 gpd L.T.A.R. .3 gpd/ft²

Septic Tank 1000 Gallons: STB 794 Date 10-12-16

Pump Tank 1000 Gallons: PT AX-20 RT Date

Pump Make Model Serial #

No. Nitrification Fields: 1 No. Lines 4 Linear Feet 268

Trench Width 24" Max. Trench Bottom Depth 36"

☒ New System ☐ Repair ☐ Expansion System Type I II III IV V VI

System Description: TS-I LP PPBPS

Repair System Description: Drip Irrigation

Maintenance Agreement Required ☒ YES ☐ NO

☐ GRAVITY ☒ PRESSURE Gravel Depth NA

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

No. Bedrooms 4 No. Persons No. Employees ☒ Crawl Space ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions - Preconstruct meeting required with Installer, Designer, and Health Dept. Before AC.

- Properly abandon existing well and existing septic system

INITIAL SITE SKETCH

- 5' separation required between existing system and new system

See Engineered Plan from Norris Clayton, P.E. and Consultants Rollans Soil & Environmental Services

Approved by ICHD

AS BUILT SKETCH

Site visit 12-9-15
New site plan w/ pool works w/ original design. RA

11-10-16 - Drain line too close to lake. RA

Tanks OK
Checked lines Aqua. OK RA 1-4-17

Set 2' PH, Checked alarm/elec RA 3-27-17

Engineer & Aqua Letter Attached RA 3-28-17

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.

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

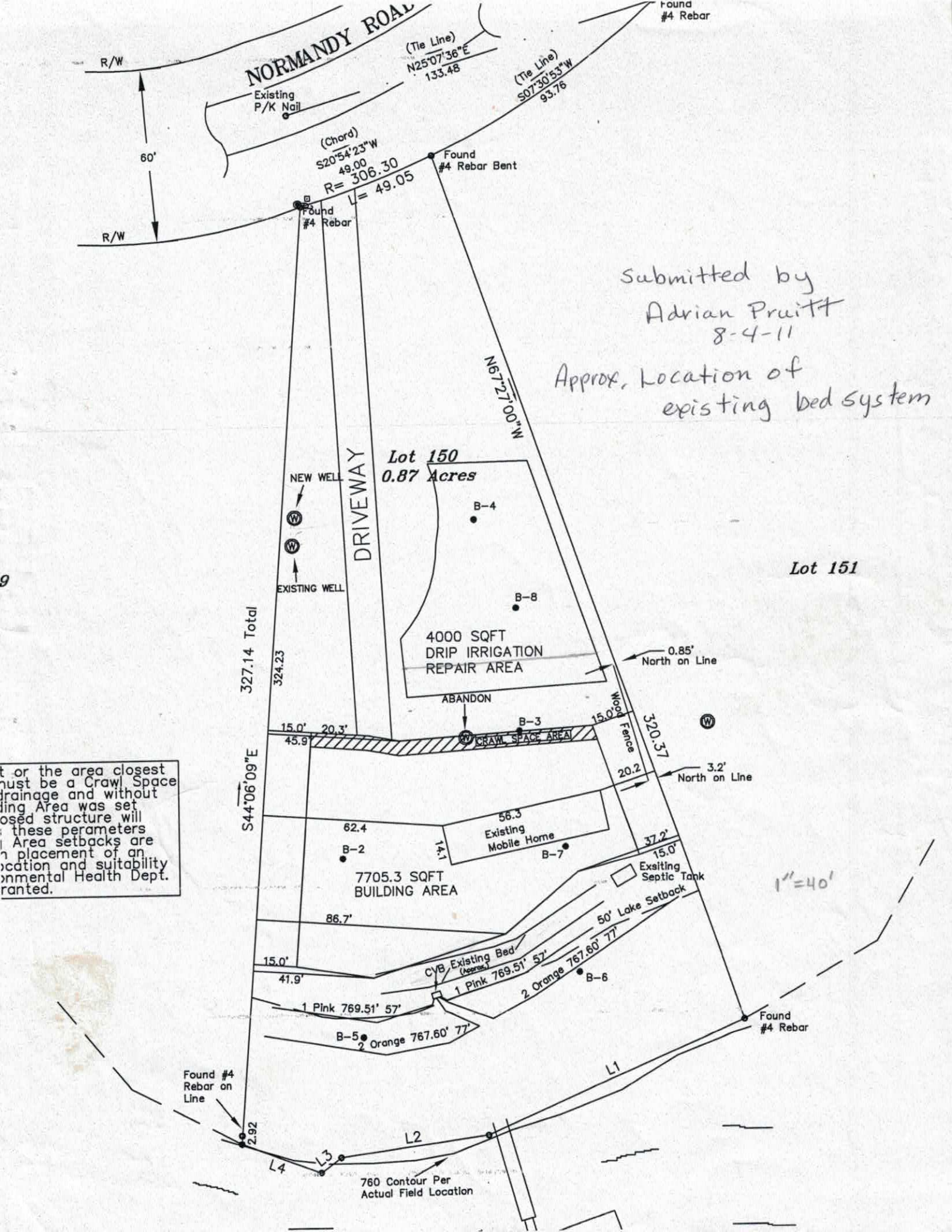
Owner / Applicant Signature: John M. Suther Date 8/24/11 Installed by: Sid Gaskins

IMPROVEMENT PERMIT by: REHS Date 8-18-11 OPERATION PERMIT by: REHS Date 3-28-17

AUTHORIZATION TO CONSTRUCT by: REHS Date 12-9-15 Existing System Inspected by: REHS Date

YOU SHOULD CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

White Copy – Environmental Health YELLOW COPY (Final) Owner / Applicant PINK COPY (Initial) Owner / Applicant



Submitted by
Adrian Pruitt
8-4-11

Approx. Location of existing bed system

t or the area closest
nust be a Crawl Space
drainage and without
ding Area was set
osed structure will
these perameters
l Area setbacks are
n placement of an
ocation and suitability
onmental Health Dept.
ranted.

ONSITE WASTEWATER SYSTEM DESIGN

for

680 NORMANDY ROAD
MOORESVILLE, IREDELL COUNTY, NC

August 1, 2011

Design Parameters:

Structure:	4-bedroom single-family residence.
System Type:	AdvanTex treatment system by Orenco Systems, Inc., to TS-I. Low-pressure porous block panel drainfield.
LTAR:	0.3 gallons/day/ft^2, as proposed by LSS.
Repair area:	Drip irrigation, as proposed by LSS.

Authoritative Documents:

- Article 11, Chapter 130A, North Carolina General Statutes.
- Title 15A North Carolina Administrative Code, 18A .1900 et al.
- Innovative Wastewater System Approval IWWS-2004-3-R3 (Orenco Systems).
- Design, Installation, and Maintenance of the T & J Panel Wastewater Treatment System, T & J Panel, Inc.
- Specific system details contained herein are accountable to the authorizing documents. Where extreme detail is not specified, all design, permitting, and installation shall comply with these documents.

Calculated Parameters:

- Design flow: 4 bedrooms @ 120 gallons/day/bedroom = 480 gallons/day.
- Drainfield: (480 gal/day) / 0.3 LTAR = 1600 square feet of drainfield.
- Total drainfield area / 6 for PPBPS drainfield = 267 linear feet required. Actual design is 268 feet.

Installation/Certification/Operation Requirements:

- Permitting: No construction activity is to begin without the issuance of a Construction Authorization by the Iredell County Health Department.
- Preconstruction: Before installation begins, the installing contractor and designer must meet with the Iredell County Health Department representative on the site.
- Certifications:
    - The installation contractor must be certified as a Class IV contractor by the North Carolina Onsite Wastewater Contractors and Inspectors Certification Board.
    - The installation contractor must be certified in writing by Orenco Systems, Inc. to install AdvanTex treatment systems in North Carolina.
    - The installation contractor shall be familiar low-pressure distribution of the T & J Panel wastewater system.
    - The operator of the system must be certified by the North Carolina Water Pollution Control System Operators Certification Commission as a subsurface system operator.
    - The operator of the system must be certified in writing by Orenco Systems, Inc., to operate AdvanTex treatment systems in North Carolina.
- The system requires a certified operator, which must be under contract with the owner before the Health Department can issue an Operation Permit.

Directions to the property:

- From NC Hwy 150 in Mooresville, take Perth Road North.
- Left on Normandy Road.
- Property is on the right.

Consulting Soil Scientist:

Adrian Pruett
Rollans Soil & Environmental Services
P.O. Box 832
Mooresville, NC 28115
704-202-5791

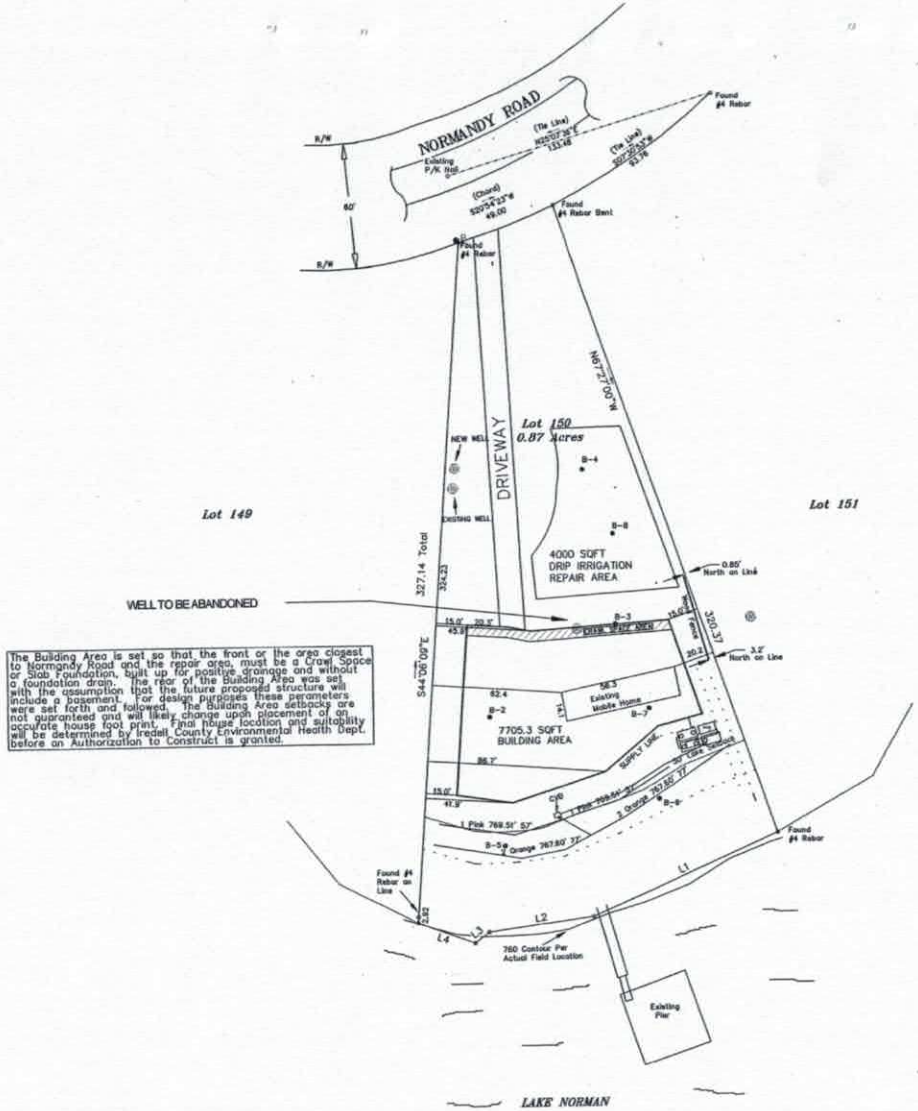


8-16-11

SITE PLAN

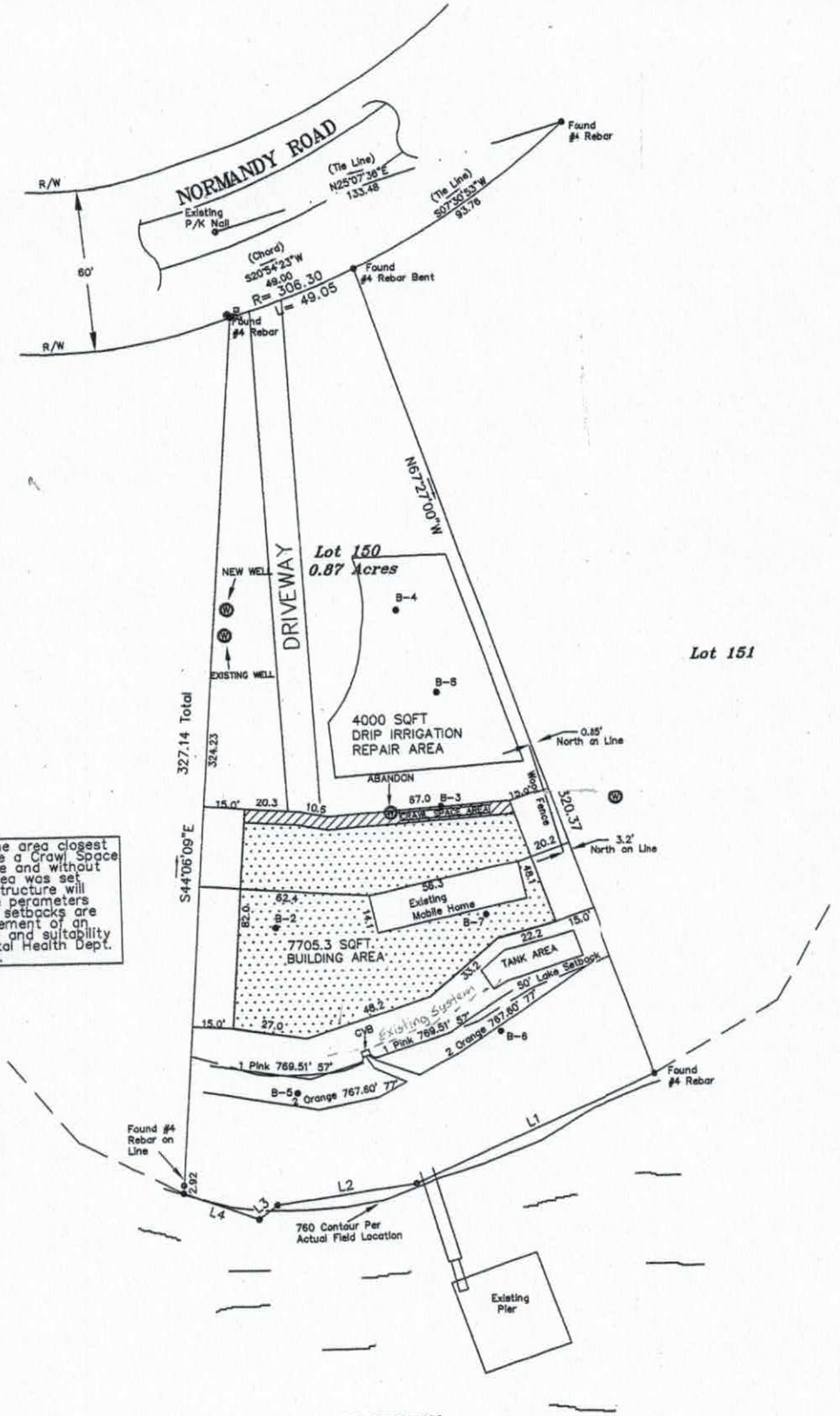
SCALE: 1" = 60'

60'



The Building Area is set so that the front or the area closest to Normandy Road and the repair area, must be a Crawl Space or Slab Foundation, built up for positive drainage and without a foundation drain. The rear of the Building Area was set with the assumption that the future proposed structure will include a basement. For design purposes these perameters were set forth and followed. The Building Area setbacks are not guaranteed and will likely change upon placement of an accurate house foot print. Final house location and suitability will be determined by Iredell County Environmental Health Dept. before an Authorization to Construct is granted.

Design Approved
ICHD
8-18-11
gm



Building Area is set so that the front or the area closest
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re an Authorization to Construct is granted.

INE TABLE	
;TH	BEARING
97.42	N18°04'00"E
51.76	N33°56'00"E
8.60	N05°03'00"E
29.24	N62°02'00"E

bject to any Easements,
trictive Covenants.
sed on Map Book 14 at
Iredell County Register

iting parcel or parcels

Monuments
10'.
iod.

ake Norman lake level as
ke Level on 6/17/11, (Elev: 757.8)

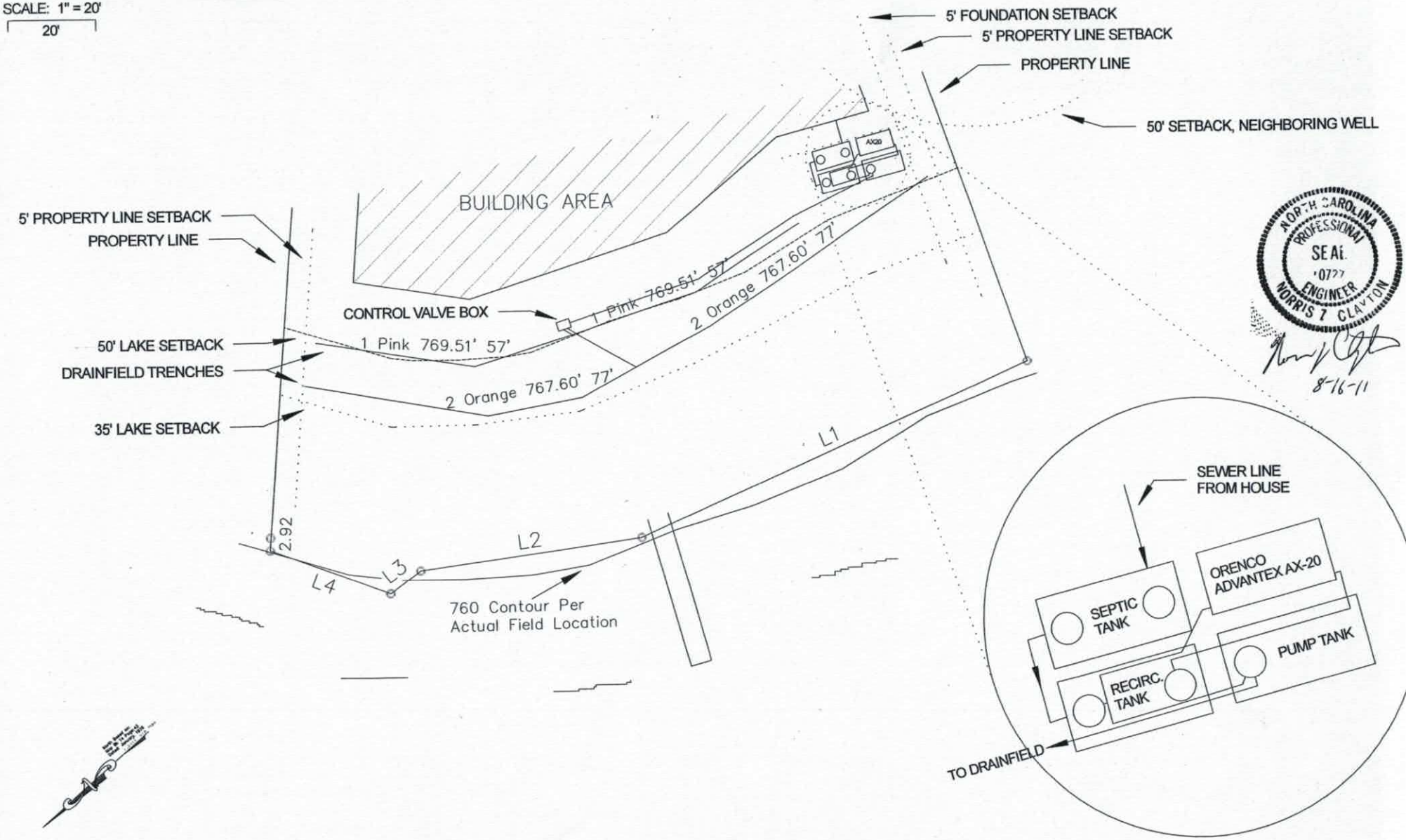
LEGEND

R/W = Right-of-way
I.P.S. = #4 Rebar Set
= Not to scale
= Telephone Pedestal
= Utility Pole
= Cable Pedestal
= Water Meter
= Existing Well
B-2 = Boring

Land Surveying by:
PATTERSON LAND SURVEYI
C-3390
P.O. Box 5010, Mooresville, N
704/361-0415 * Fax 704/799

SYSTEM INSET

SCALE: 1" = 20'
20'



NORTH CAROLINA
PROFESSIONAL
SEAL
07727
ENGINEER
NORRIS T CLAYTON

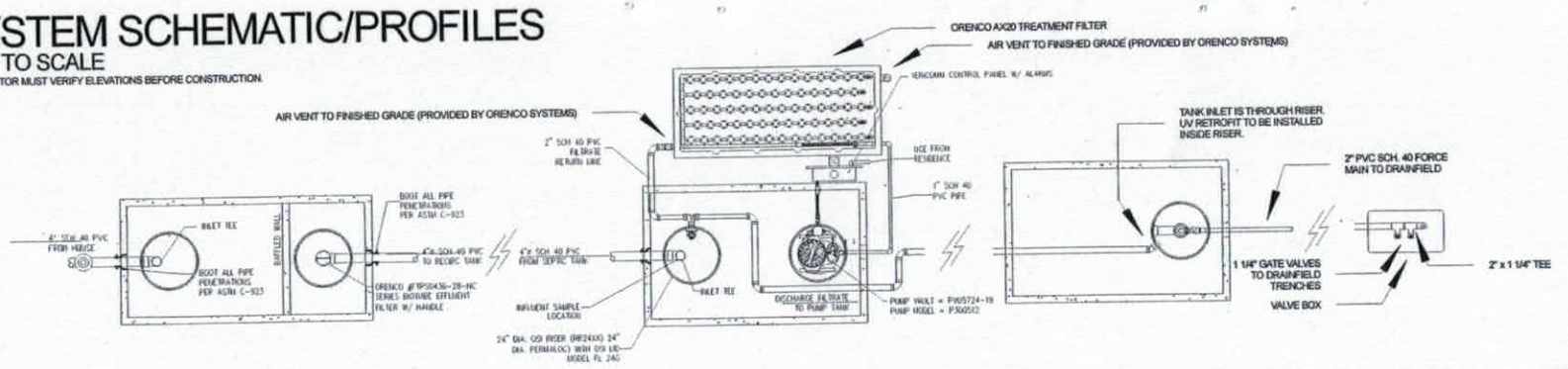
8-16-11

SYSTEM SCHEMATIC/PROFILES

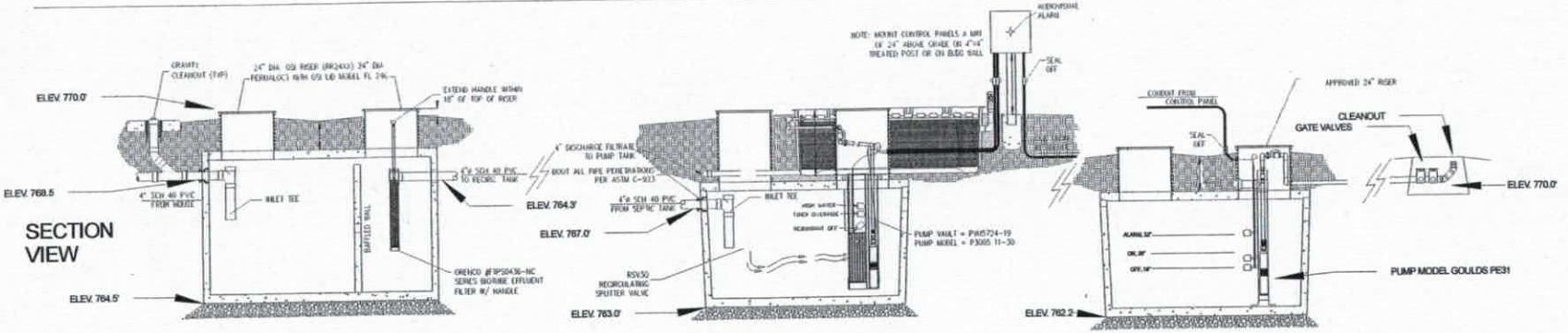
NOT TO SCALE

CONTRACTOR MUST VERIFY ELEVATIONS BEFORE CONSTRUCTION.

PLAN VIEW



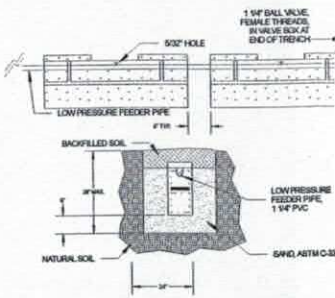
SECTION VIEW



SEPTIC TANK, 1000-GALLON

RECIRCULATION TANK, 1000-GALLON

PUMP TANK, 1000-GALLON



T & J PANEL TRENCH DETAIL

Sewer line from residence:
4" Sch. 40 PVC, with cleanout and slope to meet North Carolina Building Code.

Septic tank:
1000-gallon precast concrete, Dellinger Precast or NCDENR approved equal.
24" diameter Orenco Systems access risers over inlet and outlet compartments, flush or extending above finished grade.
Effluent filter, Orenco Systems FTP-S0436-NC. Extend filter handle within 12" of riser top.

Recirculation tank:
1000-gallon precast concrete, Dellinger Precast or NCDENR approved equal.
24" diameter Orenco Systems access risers over both sides of tank, extending 6" above finished grade.
Control panel, Orenco Systems VCOM AXB recirculation/discharge dual controller, to be mounted on the side of the residence or a treated lumber structure, adjacent to the tank. The control panel must be mounted so that the bottom of the panel is at least 36" above grade.

Treatment system:
Orenco Systems AX20 textile filter pod, with recirculating system.
The filter is to be repeatedly dosed for 20 seconds, and then rest for 20 minutes.
The treatment recirculation pump is Orenco Systems P3005, as specified for the AX20 system.

Drip pump tank:
1000-gallon precast concrete, Dellinger Precast or NCDENR approved equal.
Orenco Systems 24" diameter access riser, extended 6" above finished grade.
Pump model: Goulds PE31, or approved equal, capable of 25 gal/minute vs. 10 ft. total dynamic head.

Piping/manifolds:
All force main and distribution piping shall be PVC Sch. 40.
The force main shall feed directly into a 2-line manifold, using 2"x1 1/4" tees.
The manifold shall include two 1 1/4" gate valves, each controlling one drainfield trench.
The manifold shall include a 2" cleanout and be enclosed in a valve box, accessible from the ground surface.

Drainfield:
The drainfield shall be porous block panel, with trench bottoms 36" below natural grade, as specified by LSS.
The drainfield consists of two trenches, 114 feet and 154 feet. Each trench shall be fed with a tee fitting at the center of the trench.
The trenches shall be fed with low-pressure distribution, with each trench independently operated to receive 24" of pressure head at the distal ends.
The low-pressure laterals shall be 1 1/4" PVC Sch. 40 pipe.
Each PPBPS panel shall have one orifice, 5/32" diameter. By published tables, the flow through each orifice will be 0.41 gallons/minute.
Total flow through the system is 59 panels @ .41 gal/min = 24.2 gallons/minute.
Pretreatment system is specified to reduce the lake setback. No part of the drainfield shall be less than 35 feet from Lake Norman.
After drainfield installation, the field shall be stabilized with grass to prevent erosion.

Discharge pump/controls:
The treatment control panel shall also control the discharge pump to the drainfield.
Elevation difference from pump level to the top of the drainfield is 8 feet.
Friction head loss, according to published tables, through approximately 100 feet of 2" PVC pipe at 25 gal/min, is less than 1.3 feet.
The pump shall be capable of delivering 25 gallons/minute vs. 10 feet of total dynamic head. Goulds PE31 is the specified pump.
The controls shall be set to dose the drainfield at 3.6 gallons for each of the 59 panels, = 212 gallons.
The specified pump tank holds 21 gallons/inch of liquid level. The dose shall be set to draw down 10 inches of water.



8-16-11

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

PROPERTY ID #: _4638236645_
COUNTY: _Iredell___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____Chip Suther_____ APPLICATION DATE_____
ADDRESS:___ DATE EVALUATED: __6/2011____
PROPOSED FACILITY: ____4 BRM_____ PROPOSED DESIGN FLOW (.1949): _480gpd____ PROPERTY SIZE: ___0.87 ac_____
LOCATION OF SITE: _____680 Normandy Rd Mooresville ____Lot 150_____ PROPERTY RECORDED: ____Yes____
WATER SUPPLY: X Private ☐ Public X Well ☐ Spring ☐ Other _____
EVALUATION METHOD: X Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: X 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	
B 3	L 12%	0-3	B SL GR	SS, SP, FR, SEXP	-Many Sap incl., close to 50/50 Sap/Soil	48"	-	-	PS 0.35 gpd/sqft
		3-18	R C WFSBK	SS, SP, FR SEXP					
		18-48	R CL VWVFSBK	SS, SP, FR, SEXP					
B 4	L 8%	0-3	B SCL GR	SS, SP, FR, SEXP	-Com./Many Sap. Incl. -Com./Many CL Incl. ->50% Sap	39"	PS	-	PS 0.3-.35 gpd/sqft
		3-20	R C MFSBK	SS, SP, FR, SEXP					
		20-39	R CL WFSBK	SS, SP, FR SEXP					
		39-48	VAR. FSL SAP M	SS, SP, FR, SEXP					
B 5	L ~~12%~~ 20% qm	0-10	BR SL GR	SS, SP, FR, SEXP	-Com Sap	48"	-	-	PS 0.3 gpd/sqft
		10-34	R C MMSBK	SS, SP, FR, SEXP					
		34-48	RY CL WFSBK	SS, SP, FR SEXP					
			Assume saprolite may start below 48"						
			36" max. TB allowed for slope correction						
B 6	L ~~12%~~ 20% qm	0-4	FILL		-Few Sap -Com. Sap	48"	-	-	PS 0.3 gpd/sqft
		4-18	BR CL WMSBK	SS, SP, FR, SEXP					
		18-28	R C WMSBK	SS, SP, FR, SEXP					
		28-48	RY CL WFSBK	SS, SP, FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Pretreated LP PPBPS	Pretreated Drip Irrig.
Site LTAR	0.3 gpd/sqft	0.15 gpd/sqft

OTHER FACTORS (.1946): _____None_____
SITE CLASSIFICATION (.1948): _____PS_____

EVALUATED BY: _____ALP and SAR _____
OTHER(S) PRESENT: _____None_____

COMMENTS:_____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: __4638236645__
DATE OF EVALUATION: ___6/2011__
COUNTY: __Iredell___

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 8	L 12%	0-6	B SCL GR	SS, SP, FR, SEXP	-Few Sap -Com Sap	28"	-	-	PS 0.3 gpd/sqft
		6-22	R C WFSBK	SS, SP, FR, SEXP					
		22-28	R CL WFSBK	SS, SP, FR, SEXP					
		28-40	VAR SL SAP M	SS, SP, FR, SEXP					

RECEIVED NOV 3 0 2015

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

213884

Application For:

( ) 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
( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Place an (X) beside whichever is submitted if applicable

Applicant Information:

Applicant Name: Cottonwood Custom Homes Elbert McGowan Address: PO Box 2022 Cornelius NC 28164 Phone: 704 400 7202

Owner Name: Chip and Bonnie Suther Address: 140 Plantation Pointe Loop Apt 204 Mooresville NC Phone: 704 7787410

Property Information:

Street Address: 680 Normandy Rd Mooresville NC

Subdivision Name: _____ Section/Phase: _____ Lot Number: _____

Driving Directions: 77 Exit 36 To PERTH (NORTH) TO Normandy Rd.

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

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

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 3
(✓) Swimming Pool
( ) Other Addition/Structure: _____

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

Non-Residential Site Development:

Type of Business: _____
Square Footage of Building: _____
Maximum Number of Employee: _____
Maximum Number of Seats/Beds/Other: _____

Water Supply:

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

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

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

Please answer the following to the best of your ability:

( ) Yes (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: Chip E. McGowan 11/20/2015

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

Ronda Hart

From: bmcgowan@cottonwoodcustomhomes.com
Sent: Monday, November 30, 2015 12:19 PM
To: Ronda Hart
Subject: 680 Normandy rd building permit/ septic permit
Attachments: Binder1.pdf; Scan0001.pdf

Ronda,
I have attached a set of plans for the home at 680 Normandy rd. I have also attached the septic paperwork. Adrian Pruitt has this on file. It is a treated #1 system. I have the Surveyor coming out to mark the house pad and the pool. the well is installed. The septic is marked. Please let me know what else I need to do to complete the process
Sincerely,

Blue McGowan

COTTONWOOD
CUSTOM HOMES

www.cottonwoodcustomhomes.com

Bmcgowan@cottonwoodcustomhomes.com

P.O. Box 2022
Cornelius, NC 28031
704/400-7202 ~phone

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. **APPLICATION FOR:** ✓ Improvement Permit ___Authorization To Construct ___BOTH ___Existing System Inspection Requests Non-expiring Permit GMS 8/24/11

2. **Page 2: *Site Plan Worksheet* Form MUST Accompany This Application**
   The following optional attachments may also be submitted: ✓ Survey Plat, Scaled no more than 1 Inch = 60 Feet; ✓ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
Chip Sutter	106 Ballston Dr, Mooresville NC 28117		(704) 778-7410
Owner Name	Mailing Address	Home Phone	Work Phone

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
680 Normandy Rd Mooresville	CL&T	Lot 150

Driving Directions: NC Hwy 150 W to R on Perth Rd, L on Normandy Rd, Lot on Right Approx 2.3 miles

****

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

- (✓) New, Single Family Residence
- ( ) New, Multi-Family Residence
- ( ) Expansion of Existing Septic System
- ( ) Repair To Failing Septic System

Maximum Number of Bedrooms 4
Maximum Number of Occupants 8
If Expansion, Current Number of Bedrooms ___

- ( ) Crawl Space Foundation?
- (✓) Concrete Slab Foundation?
- (✓) Basement w/Plumbing?
- ( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

****

6. **Proposed Water Supply:**

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

****

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)*

( ) Alternative ( ) Conventional (✓) Innovative ( ) Modified Conventional ( ) Other_____ ( ) No Preference

****

8. **Please Answer The Following To The Best of Your Ability:**

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. **Signature:** Debbie L Pruett — 8-3-11

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

CL;T 511 Lot 150

WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2609

1. WELL CONTRACTOR:

NEILL PARDUE
Well Contractor (Individual) Name

AIR DRILLING INC.
Well Contractor Company Name

STREET ADDRESS 176 COMMERCE BLVD

STATESVILLE NC 28625
City or Town State Zip Code

(704) - 872-7614
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable)

STATE WELL PERMIT # (if applicable)

COUNTY WELL PERMIT # (if applicable) 213884

DWQ or OTHER PERMIT # (if applicable)

WELL USE (Check applicable use): ☐ Monitoring ☑ Residential

☐ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural

☐ Recovery ☐ Injection ☐ Irrigation

☐ Other (list use)

3. WELL LOCATION:

COUNTY IREDELL QUADRANGLE NAME

NEAREST TOWN: MOORESVILLE

680 NORMANDY RD.
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(Check appropriate setting)

LATITUDE 35° 36. 810

LONGITUDE 80° 54. 544

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable)

NAME OF FACILITY

STREET ADDRESS

City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME COTTONWOOD CUSTOM HOMES

STREET ADDRESS

5. WELL DETAILS:

a. Total Depth: 198 ft. Diameter: 6 in.

b. Water Level (Below Measuring Point): ft.

Measuring point is ft. above land surface.

6. CASING: Length Diameter

a. Casing Depth (if known): 56' ft. in.

b. Casing Removed: -- ft. in.

7. DISINFECTION: HTH

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement -- lb.
Water -- gal.

Sand Cement

Cement -- lb.
Water -- gal.

Bentonite

Bentonite lb.

Type: ☐ Slurry ☐ Pellets

Water gal.

Other

Type material CONCRETE

Amount 2 YARDS

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

POURED

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 11/17/15

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Neill Pardue 11/17/15
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

NEILL PARDUE
PRINTED NAME OF PERSON ABANDONING THE WELL

Submit a copy to the owner and the original to the Division of Water Quality within 30 days.
Attn: Information Management, 1617 Mail Service Center – Raleigh, NC 27699-1617, Phone No. (919) 733-7015 ext 568.

Form GW-30
Rev. 5/06

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

- ✓ Property Line measurements are clearly identified…
- ✓ All proposed structures are indicated…
  SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
- ✓ Front and side setbacks from property line…
- ✓ Preferred driveway location and configuration, preferred well location…
- ✓ Area you prefer your septic system to be placed…
- ✓ North arrow, or other sufficient indicator of direction…

Circle N/A on the following if appropriate:

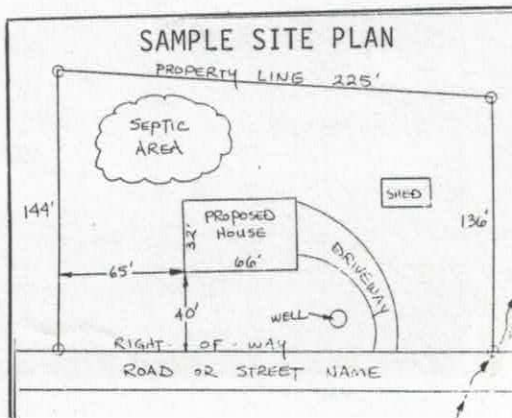
- ✓ Location of septic systems and wells within 100' of your property… N/A
- ✓ Location of easements and rights of ways on your property… N/A
- — Location of any designated wetlands on the property… (N/A)

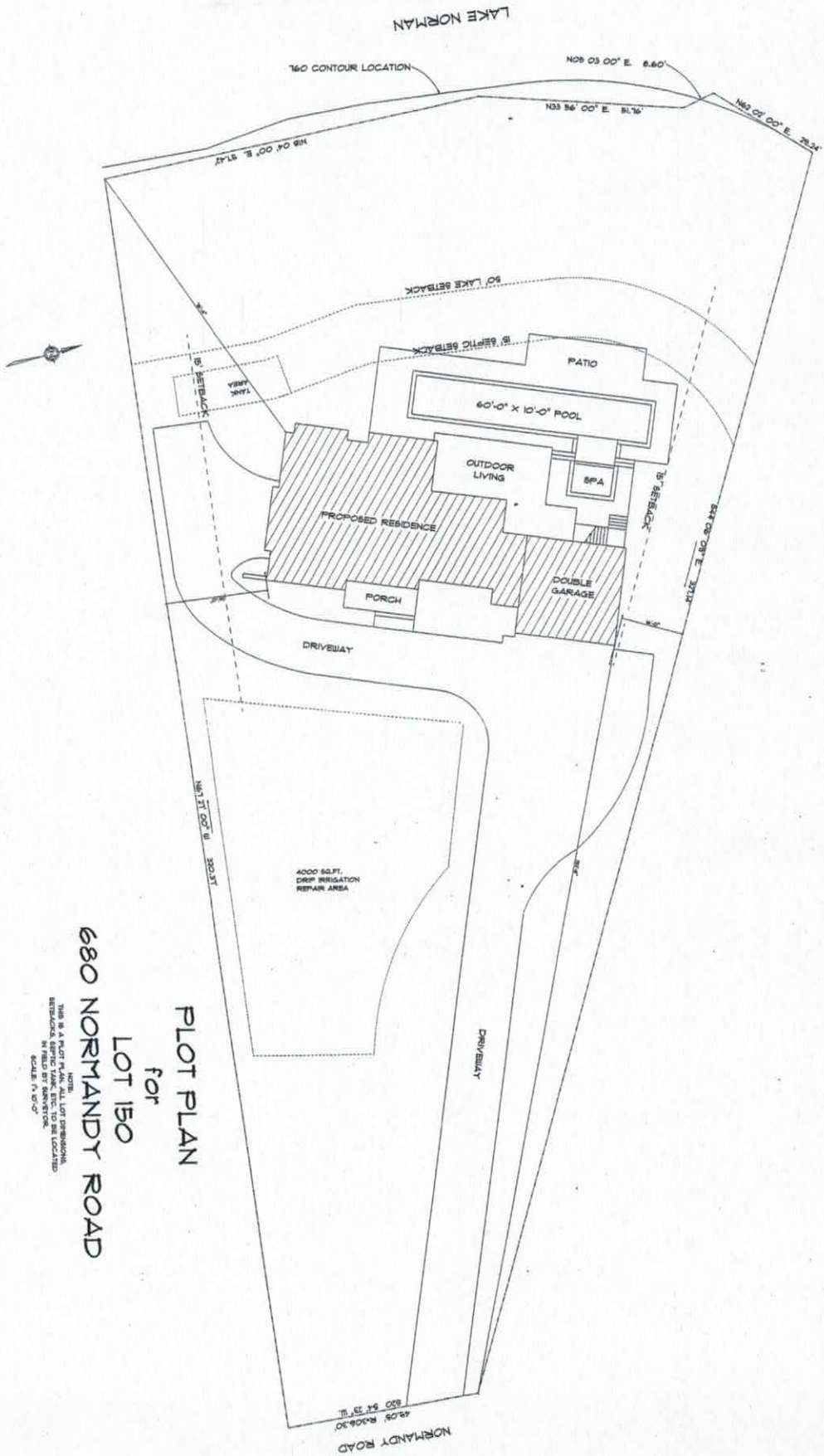
Signature: A. L Pruett
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

8-3-11
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

See Attached Site Plan.





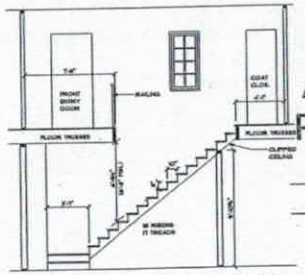
PLOT PLAN
for
LOT 150
680 NORMANDY ROAD

THIS IS A PLOT PLAN ONLY. ALL LOT DIMENSIONS, SETBACKS, SEPTIC TANK, ETC. TO BE LOCATED IN FIELD BY SURVEYOR.

SCALE: 1" = 10'-0"

COPYRIGHT HOUSE PLAN SERVICE

The SUTHER Residence
680 Normandy Road
Mooresville, North Carolina 28117



TYPICAL SECTION AT STAIR TO BASM'T.

Acknowledgement of Plans Submittal ONLY!

APPROVED Dated 09 2015

Date

DOOR OPENING SCHEDULE

OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
1	2'-6" x 6'-0"	Interior Door	6	
2	2'-6" x 6'-0" Pocket	Interior Door	3	
3	2'-6" x 6'-0"	Interior Door	1	
4	2'-6" x 6'-0" Pocket	Interior Door	1	
5	3'-0" x 6'-0"	Exterior Door	3	
6	3'-6" x 6'-0"	Exterior Door\Entry	1	
7	6'-0" x 6'-0" Sliding w/ 24" Transom	Exterior Door\French	1	
8	10'-0" x 8'-0" Sliding w/ 24" Transom	Exterior Door\French	1	
9	2'-6" x 6'-0" Pocket	Interior Door	1	

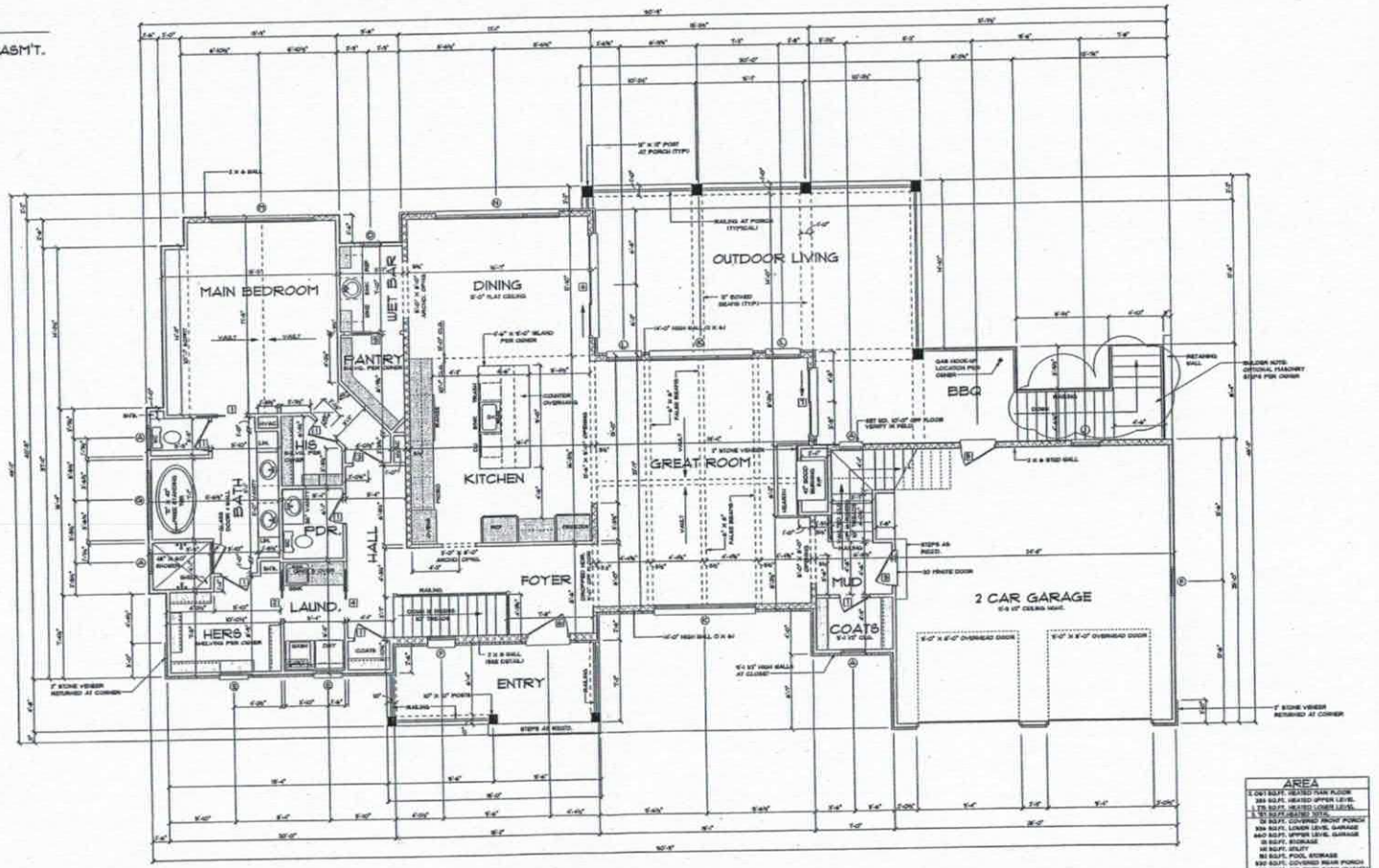
NOTE: VERIFY ALL DOOR/ WINDOW SIZES, ROUGH OPENINGS, ETC. WITH MANUFACTURER PRIOR TO CONSTRUCTION

WINDOW OPENING SCHEDULE

OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
A	3'-0" x 3'-0" Fixed	Window\Casement	4	
C	2'-0" x 3'-0" Fixed	Window\Casement	1	
D	2'-0" x 4'-0"	Window\Casement	1	
E	3'-4" x 4'-4"	Window\Casement	2	
F	2'-6" x 5'-0"	Window\Casement	1	
G	3'-6" x 5'-0" Tale (Tempered Glass)	Window\Casement	1	
J	3'-0" x 5'-0"	Window\Casement	1	
K	3'-0" x 6'-0" Triple w/ 24" Transoms	Window\Casement	2	
L	3'-0" x 6'-0"	Window\Casement	2	
M	3'-0" x 6'-0" Triple	Window\Casement	1	
N	3'-4"/ 5'-4" Fixed/ 3'-0" x 6'-0"	Window\Casement	1	

GENERAL NOTES:

1. 10'-0" CEILING HEIGHT UNLESS SPECIFIED OTHERWISE. SEE ELEVATION PLAN FOR WINDOW HEIGHTS.
2. ROOF TRUSSES OVER PEN 11/4A/LIVING UNLESS SPECD OTHERWISE.
3. 2 X 4 STUDS- 16"O.C. UNLESS NOTED OTHERWISE.
4. ROOF SHEATHING: 7/16" OSB W/ 30 FELT
WALL SHEATHING: 7/16" OSB
FLOOR SHEATHING: 3/4" T & G PLYWOOD
INTERIOR WALLS: 1/2" SHEETROCK UNLESS SPECD. OTHERWISE.



MAIN FLOOR PLAN

FRAMER NOTE:

NOTE: INDEX TO PAGE 4-8 FOR STRUCTURAL INFORMATION FOR THIS DRAWING

AREA

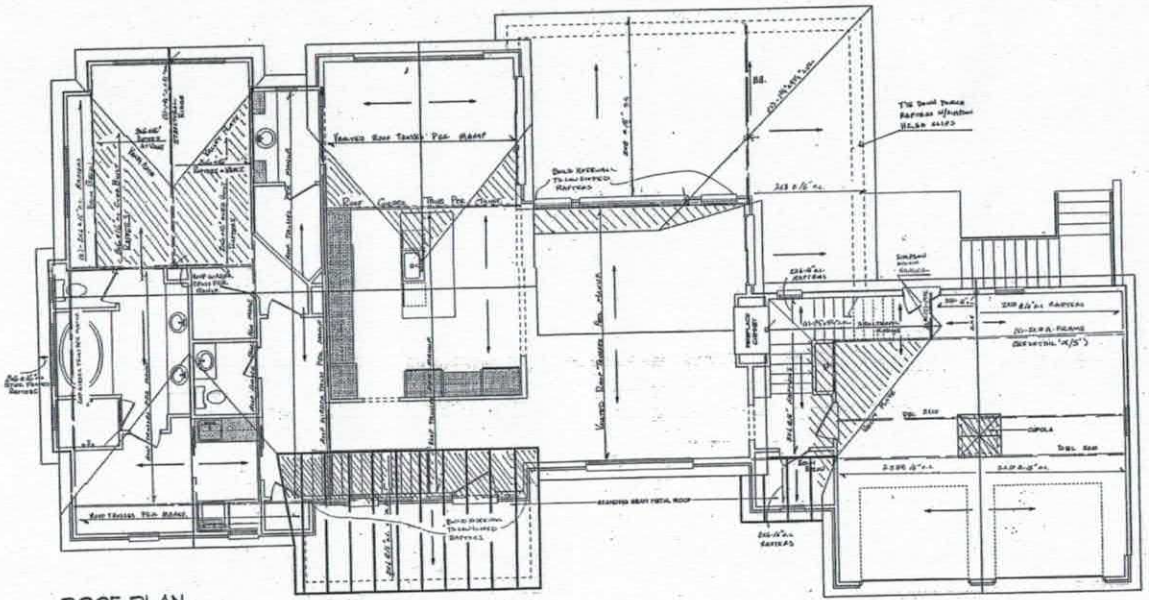
2,067 SQ.FT. HEATED MAIN FLOOR
385 SQ.FT. HEATED UPPER LEVEL
1,775 SQ.FT. HEATED LOWER LEVEL
4,227 SQ.FT.HEATED TOTAL
96 SQ.FT. COVERED FRONT PORCH
304 SQ.FT. LOWER LEVEL GARAGE
440 SQ.FT. UPPER LEVEL GARAGE
32 SQ.FT. STORAGE
48 SQ.FT. UTILITY
80 SQ.FT. POOL STORAGE
930 SQ.FT. COVERED REAR PORCH
440 SQ.FT. COVERED PATIO (BASEMENT)
1,754 SQ.FT. TOTAL UNHEATED
6,419 SQ.FT. TOTAL UNDER ROOF

The SUTHER Residence
680 Normandy Road
Mooresville, North Carolina 28117

HOUSE PLAN SERVICE
A RESIDENTIAL DESIGN FIRM

DATE 11/19/16

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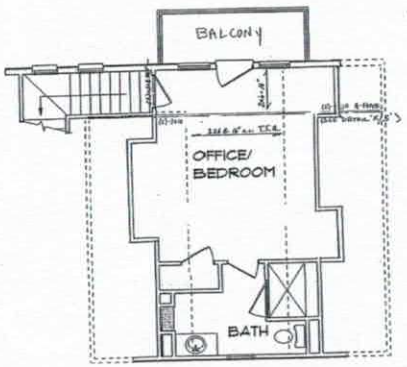


ROOF PLAN

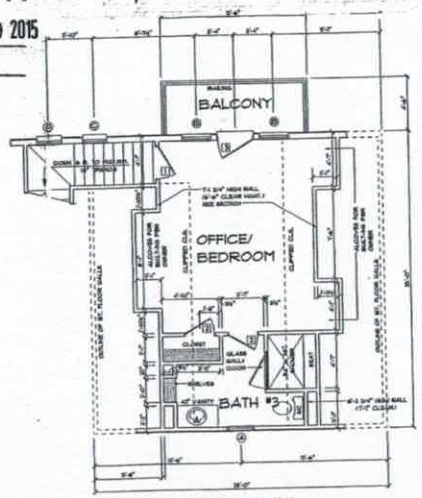
Acknowledgement of
Plans Submittal ONLY!

APPROVED DEC 09 2015
Date

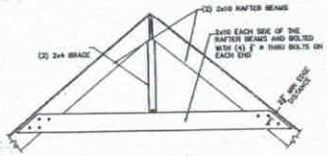
Date



UPPER LEVEL STRUCTURAL PLAN



UPPER LEVEL PLAN



X/S1 2x10 A-FRAME DETAIL

GENERAL NOTES:

WINDOW OPENING SCHEDULE				
OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
A	3'-0" x 3'-8"	Window/Casement	1	
B	2'-4" x 5'-0"	Window/Casement	2	
C	3'-0" x 3'-0" Fixed	Window/Casement	2	

DOOR OPENING SCHEDULE				
OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
1	3'-0" x 6'-8"	Interior Door	1	
2	2'-6" x 6'-8"	Interior Door	2	
3	5'-0" x 6'-8"	Exterior Door/ French	1	

NOTE: VERIFY ALL DOOR/WINDOW SIZES ROUGH OPENINGS, ETC PRIOR TO CONSTRUCTION.

The SUTHER Residence
680 Normandy Road
Mooresville, North Carolina 28117

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HOUSE PLAN SERVICE
A RESIDENTIAL DESIGN FIRM

Acknowledgement of
Plans Submittal ONLY!

APPROVED DEC 09 2015
Date

Date

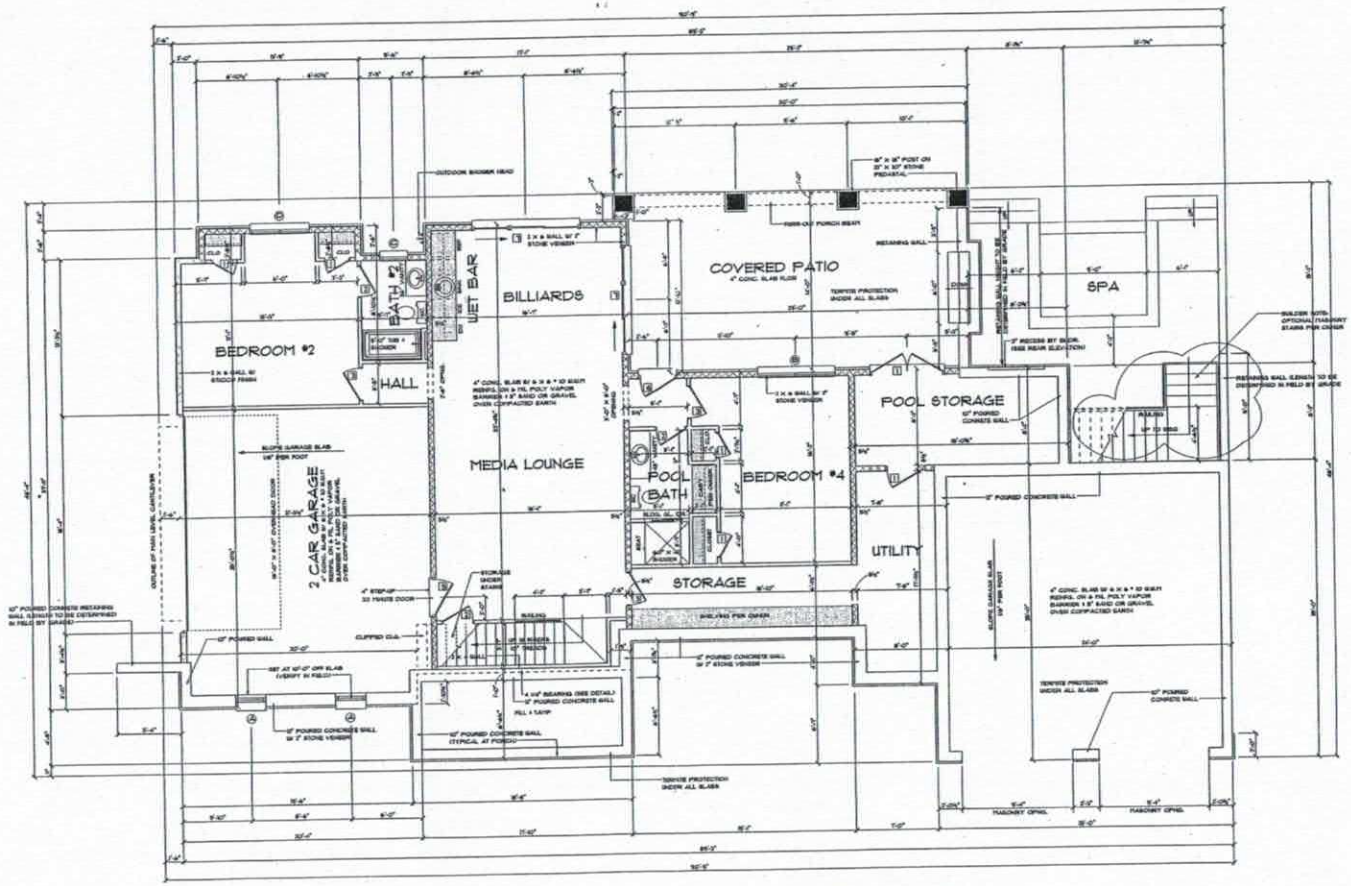
WINDOW OPENING SCHEDULE				
OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
A	2'-6" x 5'-0"	Window\Casement\Fixed	2	
B	3'-0" x 6'-0" Twin	Window\Casement	1	
C	2'-0" x 4'-0"	Window\Casement	1	
D	2'-6" x 6'-0" Twin	Window\Casement	1	

NOTE: VERIFY ALL DOOR/WINDOW SIZES, ROUGH OPENINGS, ETC WITH MANUFACTURER PRIOR TO CONSTRUCTION

DOOR OPENING SCHEDULE				
OPENING ID	SIZE	LIBRARY NAME	COUNT	REMARKS
1	3'-0" x 8'-0"	Interior Door	9	
2	2'-6" x 8'-0"	Interior Door	3	
3	2'-8" x 8'-0"	Interior Door	3	
4	5'-0" x 8'-0" Double	Interior Door	1	
5	3'-0" x 8'-0"	Exterior Door	1	
6	5'-0" x 8'-0" French	Exterior Door	1	
7	16'-0" x 8'-0"	Exterior Door\Sliding	2	

GENERAL NOTES:

1. 10'-0 1/2" CEILING HGHT.
2. 14" FLOOR TRUSSES UNLESS SPECIFIED OTHERWISE
3. PAYMENT CLEARANCES TO GRADE: JOISTS- 8", GIRDERS- 8", WOOD SILLS- 6", BEAMS- 4".
4. TERMITE PROTECTION IS TO BE BY SOIL TREATMENT UNLESS SPECD. OTHERWISE. PORCH \ GARAGE SLABS ARE TO BE TREATED ALSO.



LOWER LEVEL PLAN

FRAMER NOTE:

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The SUTHER Residence
680 Normandy Road
Mooresville, North Carolina 28117

HOUSE PLAN SERVICE

Iredell County
Planning & Enforcement
349 N. Center St. PO Box 788
Statesville, NC 28687
704-878-3113

GRADING PERMIT NEEDED

Printed: 8/1/2011

Zoning Permit
Permit Number: 167901ZO

Master #: 167901

Associated Permits:
167901ZO Zoning

Applicant
Name: John Suther
Address: 106 Ballston Dr
Mooresville, NC 28117
Phone: 704-778-7410

Parcel
Parcel Number: 4638236645.000
Address: ~~126 Pierce Wood Dr.~~ 680 Normandy Rd
Mooresville, NC 28117
Subdivision:
Directions to Parcel: Perth Rd to Normandy Rd
Zoning: R20
Township: 1700
Area: .87
Lot(s):

Owners
Name: Carolyn Irvin
Address:

Contractors

Fees and Receipts:

Number	Description	Amount
FEE-235159-07	Zoning - Permit / Inspection	$75.00
FEE-235160-07	Technology and Administrative Fee	$2.25
FEE-235161-07	Environmental Health - Gravity - Fast Track	$350.00
	Total Fees:	**$427.25**
REC-126615-07		$427.25
	Total Receipts:	**$427.25**

Conditions

Date: **Status:** **Code:**

Condition Description:

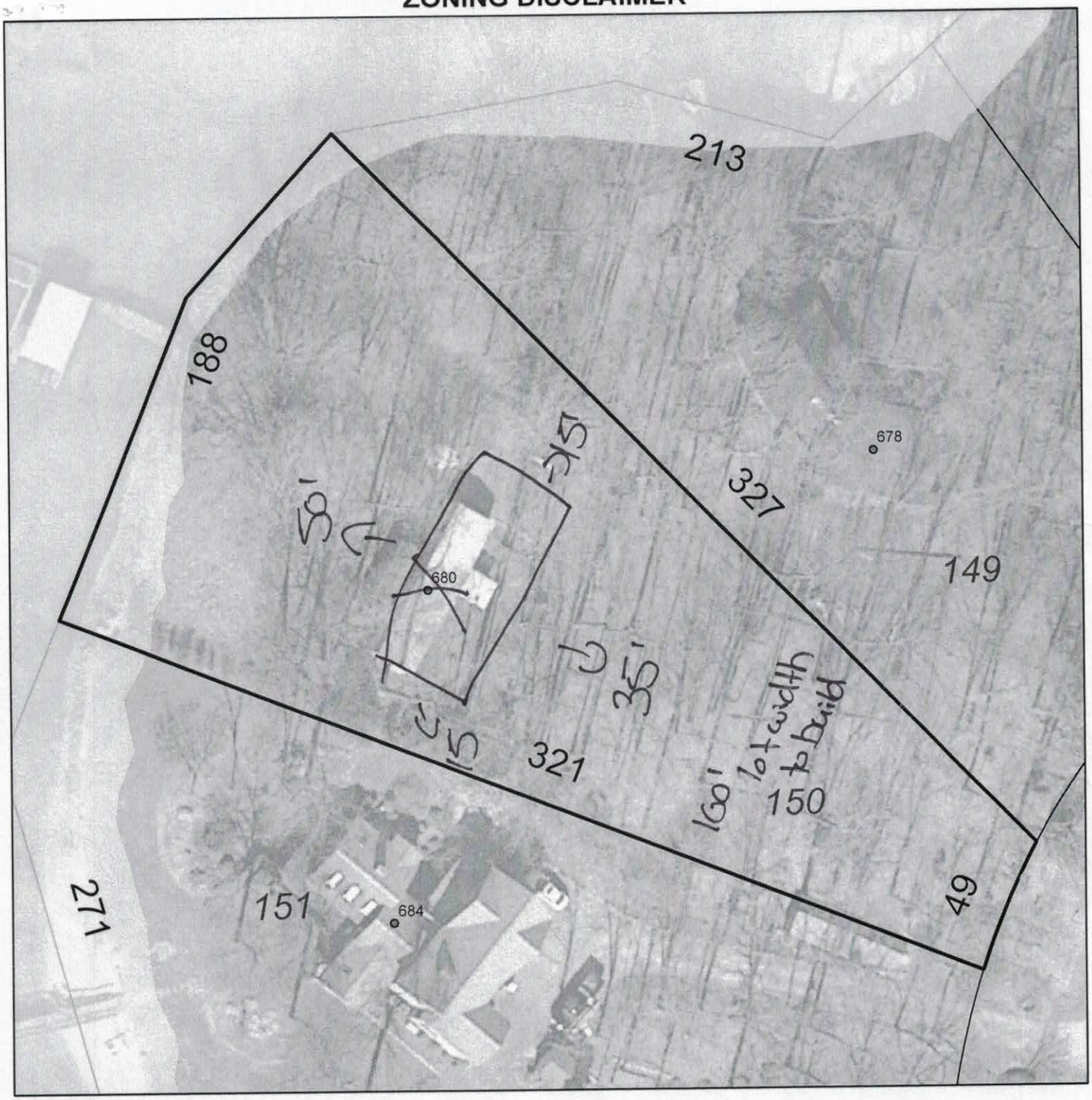
Condition Comments:

Permit Information:

Max Built Upon Area:	
Watershed:	WSIV-CA
Flood Zone:	No
Set Backs:	F35 R50 LS15 RS15
Minimum Lot Size:	
Minimum Lot Width:	
Min # Parking Spaces:	
Land Use Permitted:	Yes
Community Sewer:	No
Site Plan Reviewed:	
Staff:	
Zoning Permit:	Yes
Septic Typet:	New System
Proposed Use:	Single Family
Property Recorded:	Yes
Community Water:	No
Provider:	
Provider:	
Date:	
# of Stories:	0
# of Bedrooms:	0
# of Units in Building	0

Site Plan Conditions:
Zoning Permit Comments:

ZONING DISCLAIMER



PROPERTY ADDRESS:_____680 Normandy Rd.

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions, plat conditions, and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

_____ _____

Applicant Date