IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 2336664

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

PIN # 4639089266

APPLICANT/OWNER: EAEA LLC APPLICANT ADDRESS: PO Box 951 Statesville, NC

SITE ADDRESS: 160 Lively Ln. Troutman, NC 28166 PHONE: 704-873-7000 ALT. PHONE ——

SITE DIRECTIONS: State Park Rd → L on Morrison Farm → L on Twin Coves → Lively Ln (lot at end on R) SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Twinn Coves on Morrison SECTION: — LOT # 10 LOT AREA: 5.61 ac DESIGN FLOW: 480 gpd L.T.A.R.: .275

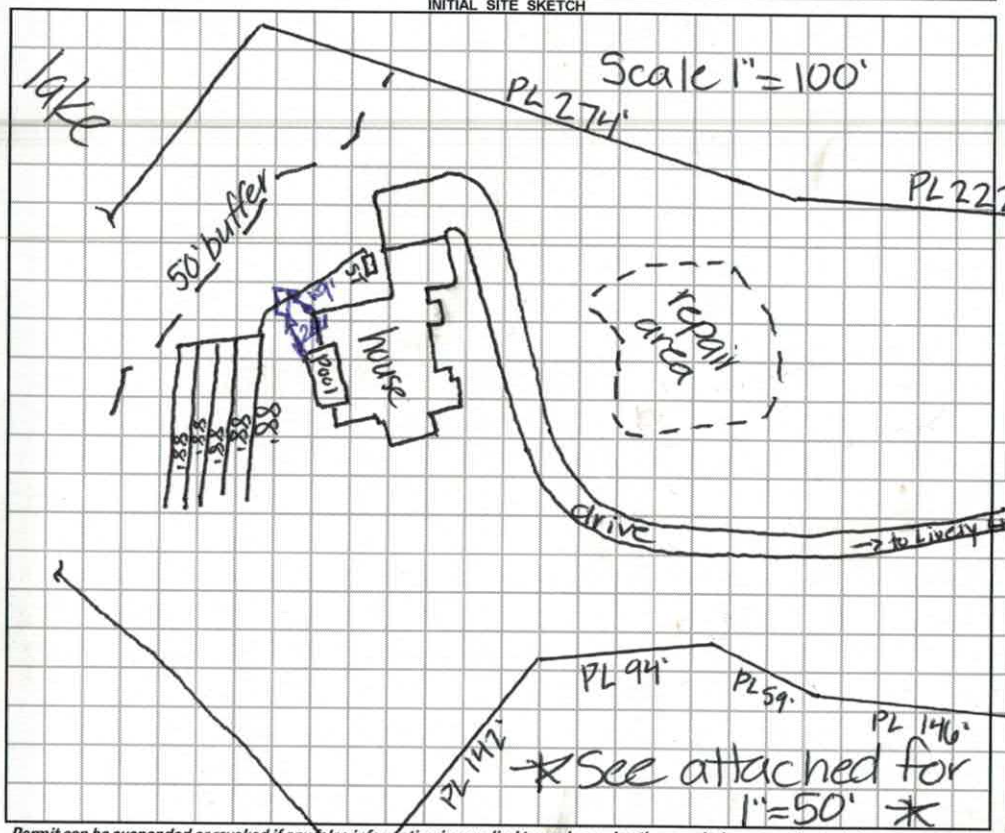
Septic Tank	1000	(gal)	STB	760	Date	4-18-2020	☑ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	
Pump Tank		(gal)	PT		Date		System Description:	25% reduction			
Pump Make		Model			Serial #		Repair System Description:	PM 25% reduction			
# Nitrification Fields	1	# Lines	5@88'		Linear Ft	440'	Maintenance Agreement Required:	☐ YES	☑ NO		
Trench Width	36"	Trench Bottom Depth (~~Low side~~)	MAX 32"		Gravel Depth	—		☑ GRAVITY	☐ PRESSURE		

☑ Residence	No. Bedrooms	4	Water Supply
☐ Business	No. Persons	8	☑ Private
☐ Other	No. Employees		☐ Public
☑ Slab	☐ Crawl Space		☐ Community
☐ Basement w/plumbing			☐ Basement w/o plumbing

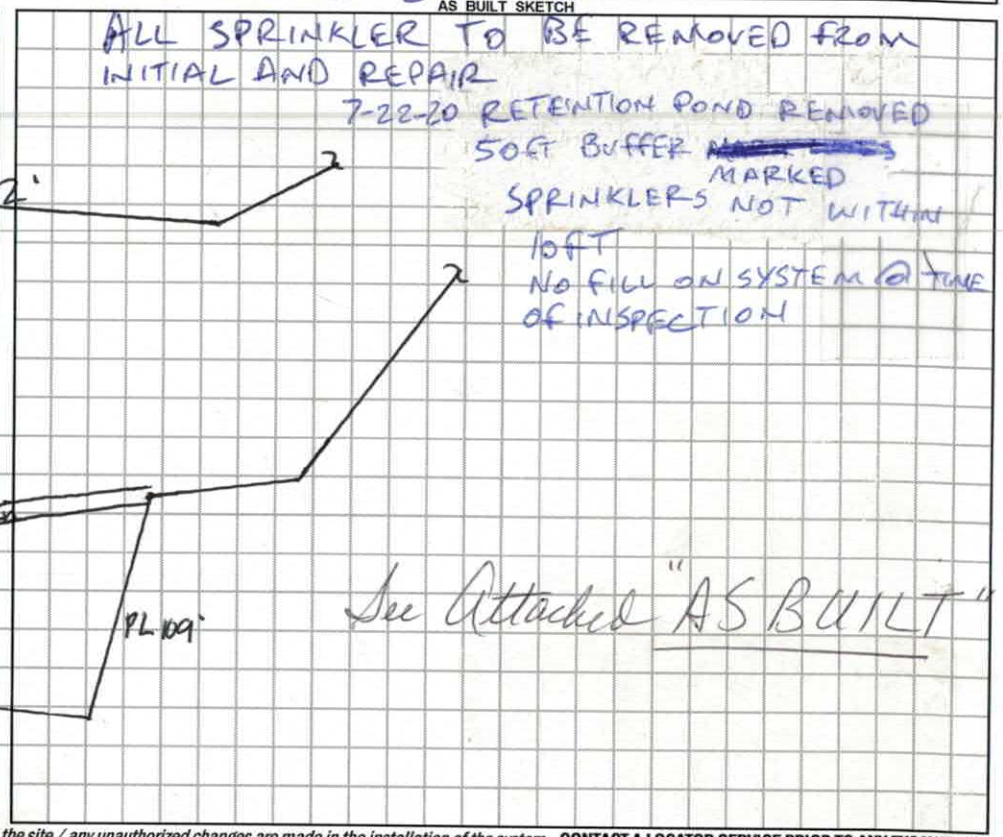
Comments / Conditions: Install 25% reduction with serial distribution and drain lines on contour. Install at 32" highside.

7-16-2020 SOFT BUFFER TO BE SURVEYED, SILT RETENTION POND TO BE FILLED, FINALGRADE TO BE VERIFIED FOR POOL BACK FILL

INITIAL SITE SKETCH



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

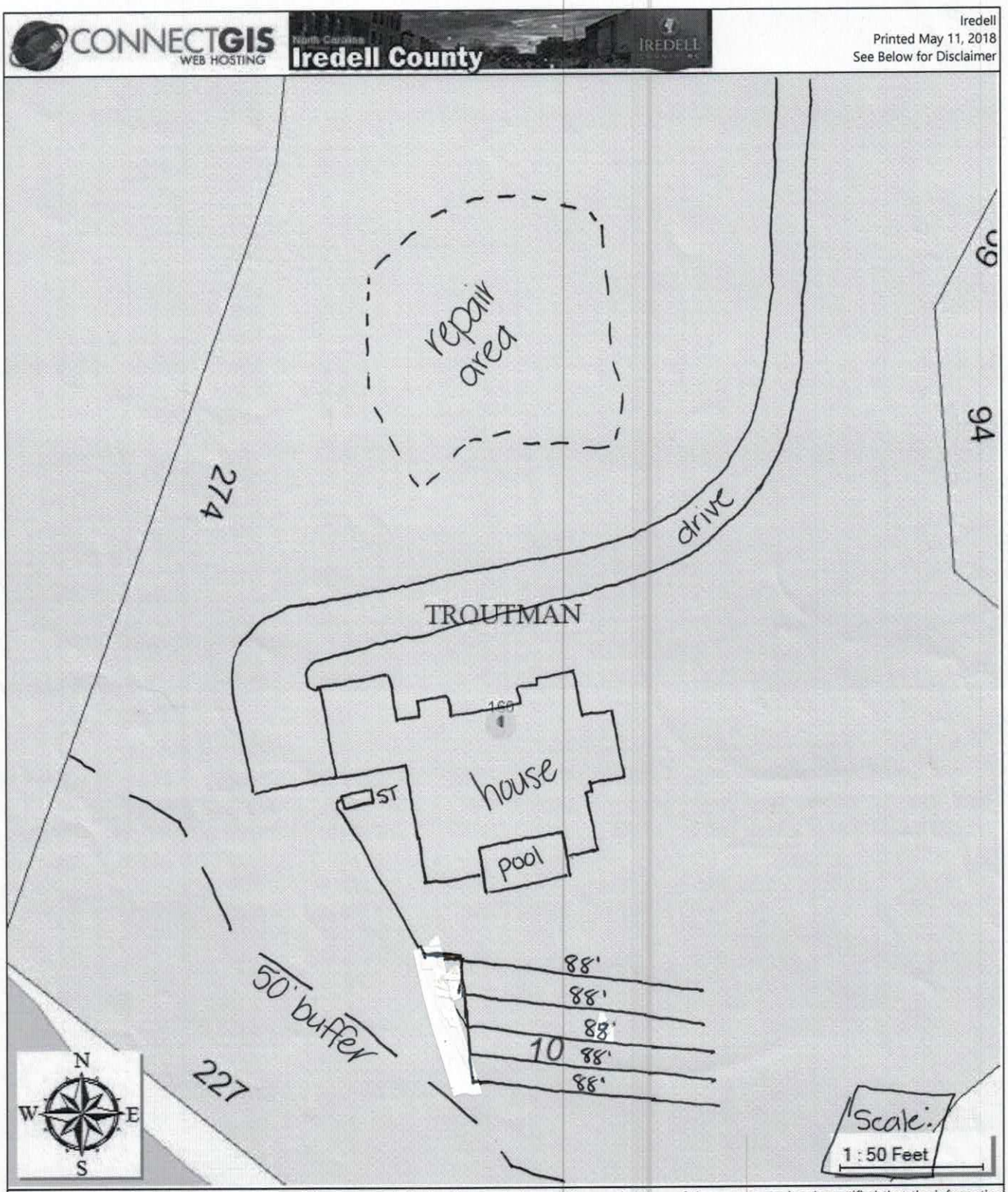
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☑ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Ellen Thomas Date: 2-14-18 Installed by: RICHARD ABERNATHY

IMPROVEMENT PERMIT by: Kayla Watson Date: 5-11-18 OPERATION PERMIT by: Burgaw Committee Date: 7-23-2020

AUTHORIZATION TO CONSTRUCT by: Kayla Watson Date: 5-11-18 Existing System Inspected by: Date:

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



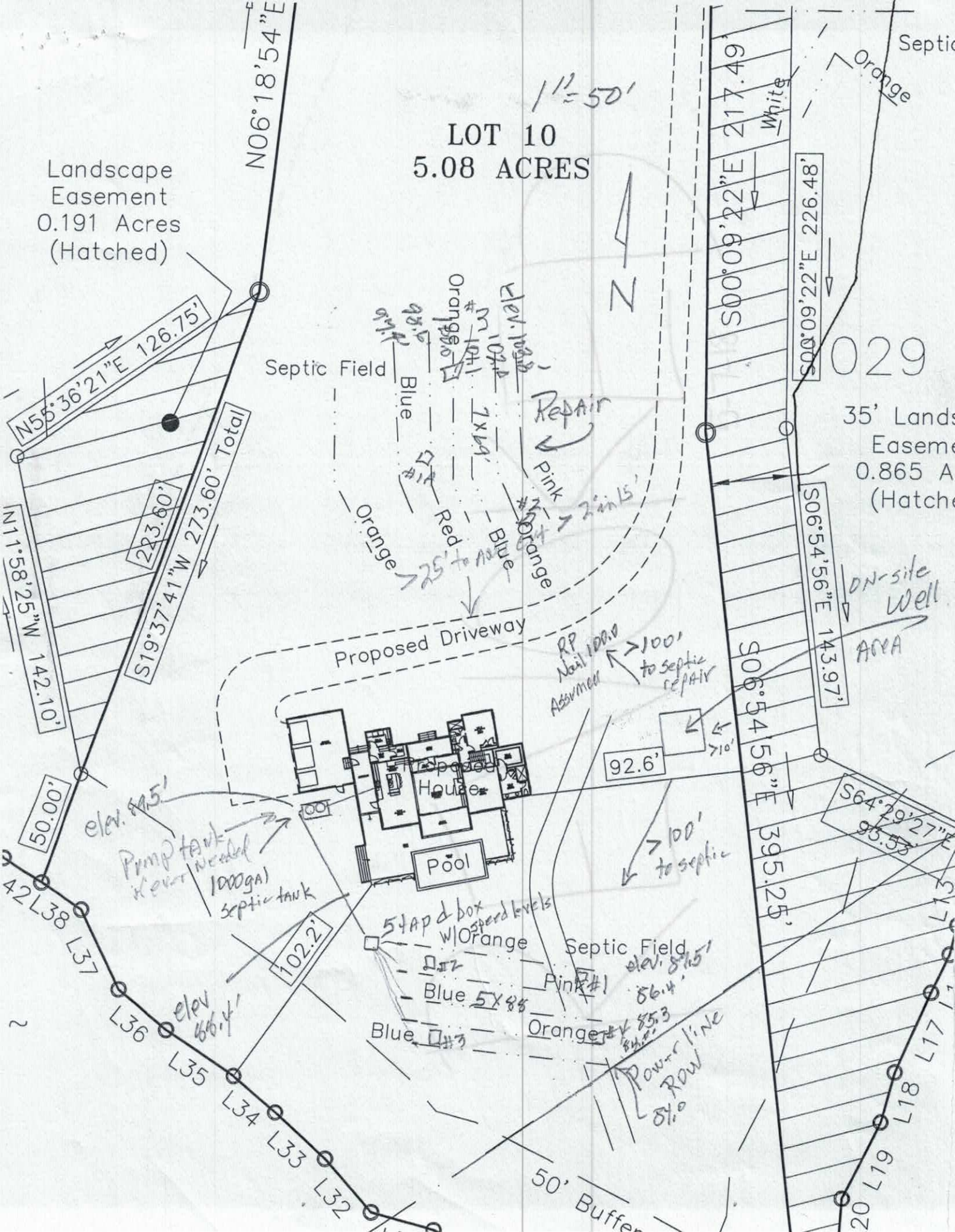
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AS BUILT

FAST TRACK PLAN

Twinn Coves on Morrison – Lot 10

Water	on-site well
Number of Bedrooms	4
Basement or crawl	crawl
Design flow (gpd)	480
Septic tank	1000 gal.
Primary System LTAR (gpd/ft^2)	0.275
Primary system type	25% reduction
Number of lines	5 @ 88' end fed
Total linear feet	440
Trench width	3' min. or equivalent
Trench spacing	9' min. on contour
Trench depth	32" on high side
Pump required	no
Pump tank	n/a
Distribution device	standard D-box
Length and diameter of supply pipe	approx. 60' of code sch 40 PVC
Repair System	25% reduction with pressure dose manifold
Total linear feet	480'
Number of lines	7 @ 69'
Repair loading rate (gpd/ft^2)	0.25


1"=50'
LOT 10
5.08 ACRES
Landscape Easement 0.191 Acres (Hatched)
N06°18'54"E
N55°36'21"E 126.75'
223.60'
S19°37'41"W 273.60' Total
N11°58'25"W 142.10'
50.00'
Septic Field
Orange
Blue
Red
Pink
Repair
>25' to Septic
Proposed Driveway
Proposed House
Pool
elev. 885'
Pump tank if ever Needed
1000gal septic tank
102.2'
elev 886.4'
5 tapd box w/ Orange
Blue 5X85
Blue #3
Septic Field
Pink #1
Orange
Power line ROW
8%
50' Buffer
S00°09'22"E 217.49'
S00°09'22"E 226.48'
S06°54'56"E 143.97'
S06°54'56"E 395.25'
S64°29'27"E
95.53'
92.6'
>100' to septic
>100' to Septic repair
ON-site Well
AOWA
RP Nail 100.0 Assumed
029
35' Lands Easeme 0.865 A (Hatche
L36 L35 L34 L33 L32 L19 L18 L17

On-site Wastewater Section

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Lot #: 11
File #:
AppID:

Owner: Tavenner - System
Address:
Proposed Facility: Design Flow (.1949)
Location of Site:

Applicant:
Date Evaluated: 7/12/14
Property Size:
Property Recorded:

Water Supply: [ ] Public [ ] Individual [✓] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [✓] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	2/12	0-8	gr sl	fri NSNP 1:1					0.275-0.3
		8-24	mn SBK scl	fri s/sl/sp 1:1					
		24-49	mn SBK cl	fri s/sl/sp 1:1					
					mottling at/near fav restrictive				
2	2/12	0-9	gr sl	fri NSNP 1:1					0.3
		9-30	mn SBK scl	fri s/sp 1:1					
		30-57	mn SBK cl	fm s/sp 1:1					
3	8-10	0-6	gr sl	fri NSNP 1:1					0.3
		6-29	mn SBK scl	fri s/sp 1:1					
		29-63	s/l/s	NSNP 1:1					
4	6	0-10	gr sl	fri NSNP 1:1					0.285
		6-29	mn SBK scl	fri s/sp 1:1					
		29-49	gr sl/l	fri NSNP 1:1	Compaction				

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	75% red	75% red
Site LTAR	0.275	0.25

Other Factors (.1946):
Soil Evaluation By:
Others Present:
Site Classification (.1948): PS
Site Evaluation By: R. Smith, LSS
Others Present:

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

Lot on R

Repairs

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Sheet:
Property ID:
Lot #:
File #:
AppID:

Owner: Tsumas Lot 10
Address:
Proposed Facility: Design Flow (.1949)
Location of Site:

Applicant:
Date Evaluated: May 14 2015
Property Size:
Property Recorded:

Water Supply: [ ] Public [ ] Individual [ ] 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 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1		0-12	MDGR SL	FR SS/SP	R				
		12-24	MD/WK ABK	CSC FR SS/SP	R, C ysl/bro				
		24-44	Tiger Dirt						US
2	L	0-15	MOSBKC	FR SS/SP	R				
		15-21	WK SBK CL	FR SS/SP	R, C sap				
		21-48	MAL SAP		multi; 21-30 - Fi sap / side of pit				0.25
3	L	0-36	ABKC	FI S/P					
		36-48	MA L SAP	FR SS/SP	multi; F CL				0.3
4	L	0-7	moGR SL	FR S/SP	R				
		7-26	MO ABK C	FR SS/SP	R				
		26-36	WK SBK CL	FR SS/SP	R				
		36-48	MA L SAP		C; MK SAP R				0.25
					multi				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Soil Evaluation By: KS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

1A - 0-5 mo GR SL
5-28 mo SBK C/WK ABK C
28-35 WK SBK C, C SAP 0.3
35 (?) MA L SAP

#2 A0 - 5 MO-GR SL
5-29 MO SBK C 0.3
29-36 WK SBK CL

2336d04

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

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

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: EAEA, LLC Address: P.O. Bx 951 Statesville NC Zip: 28687
Applicant Email: htsumas@tsumasRealestate.com Phone: 704 873-7000 Alt. Phone: _____
Owner Name: same Address: _____ Zip: _____
Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 160 Lively Lane
Subdivision Name: Twinn Coves on Morrison Section/Phase: _____ Lot Number: 10
Driving Directions: South on Shelton ave, Rt on Wagner, Rt on State Park Left on Morrison Farm, Left on Twin Coves Ct, Lot at end on Rt

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

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____
Maximum Number of Bedrooms: 4
Maximum Number of Occupants: _____
( ) Swimming Pool
( ) Other Addition/Structure: _____
Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

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

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____
(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:
( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
(✓) Yes ( ) No Is the site subject to approval by any other public agency?

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

Signature: _____ 5/3/18
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

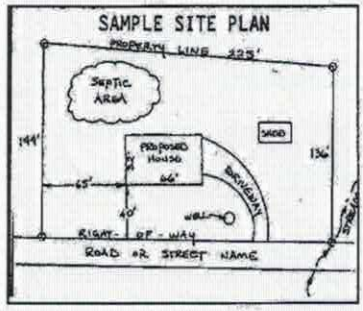
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

SITE PLAN WORKSHEET

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

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

- (V) Property Line measurements are clearly identified
- ( ) All proposed structures are indicated
- ( ) Front and side setbacks from property line
- (V) Preferred driveway location
- (V) Preferred well location
- ( ) Preferred septic system location
- ( ) North arrow, or other sufficient indicator of direction



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

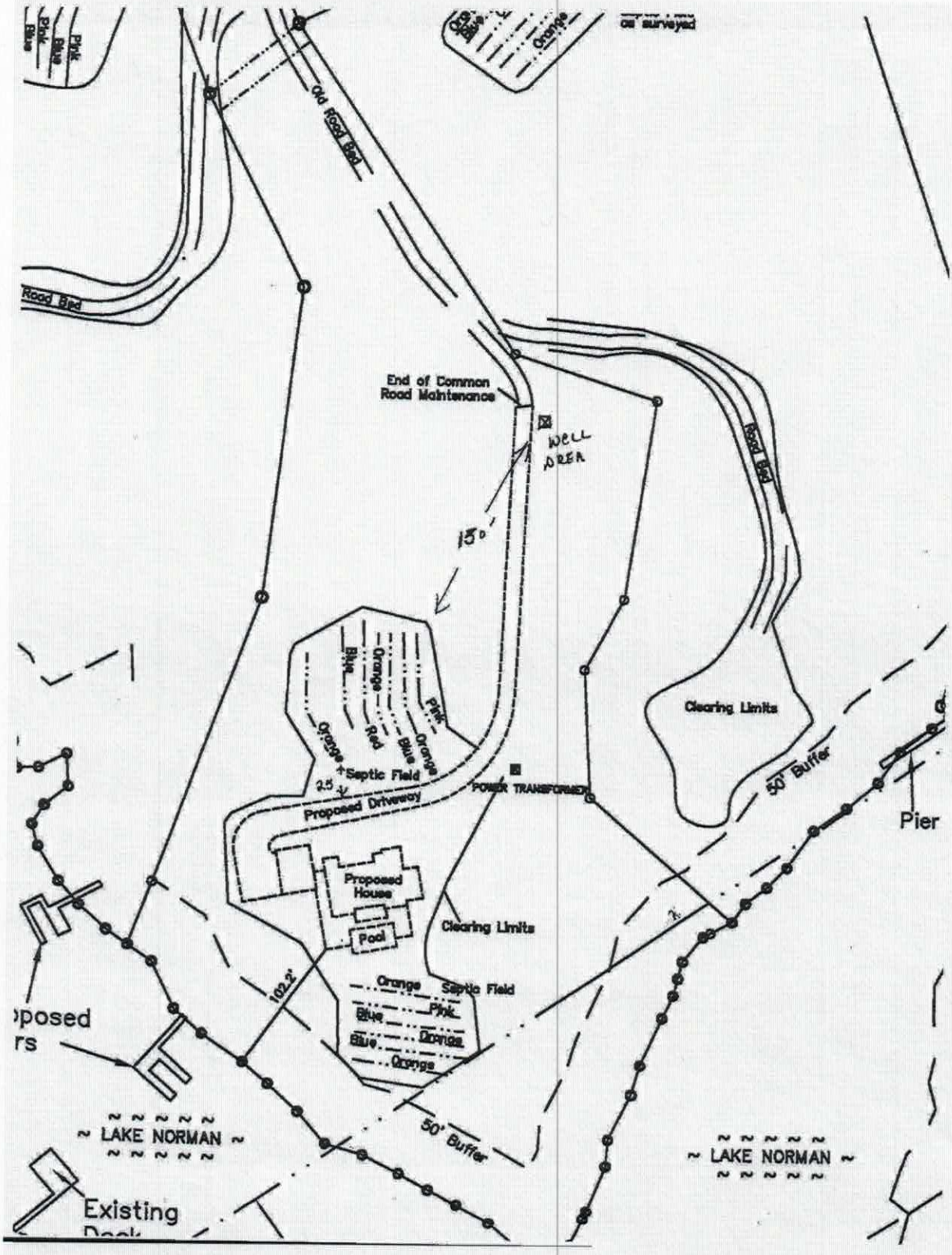
USE THIS SPACE TO DRAW YOUR SITE PLAN

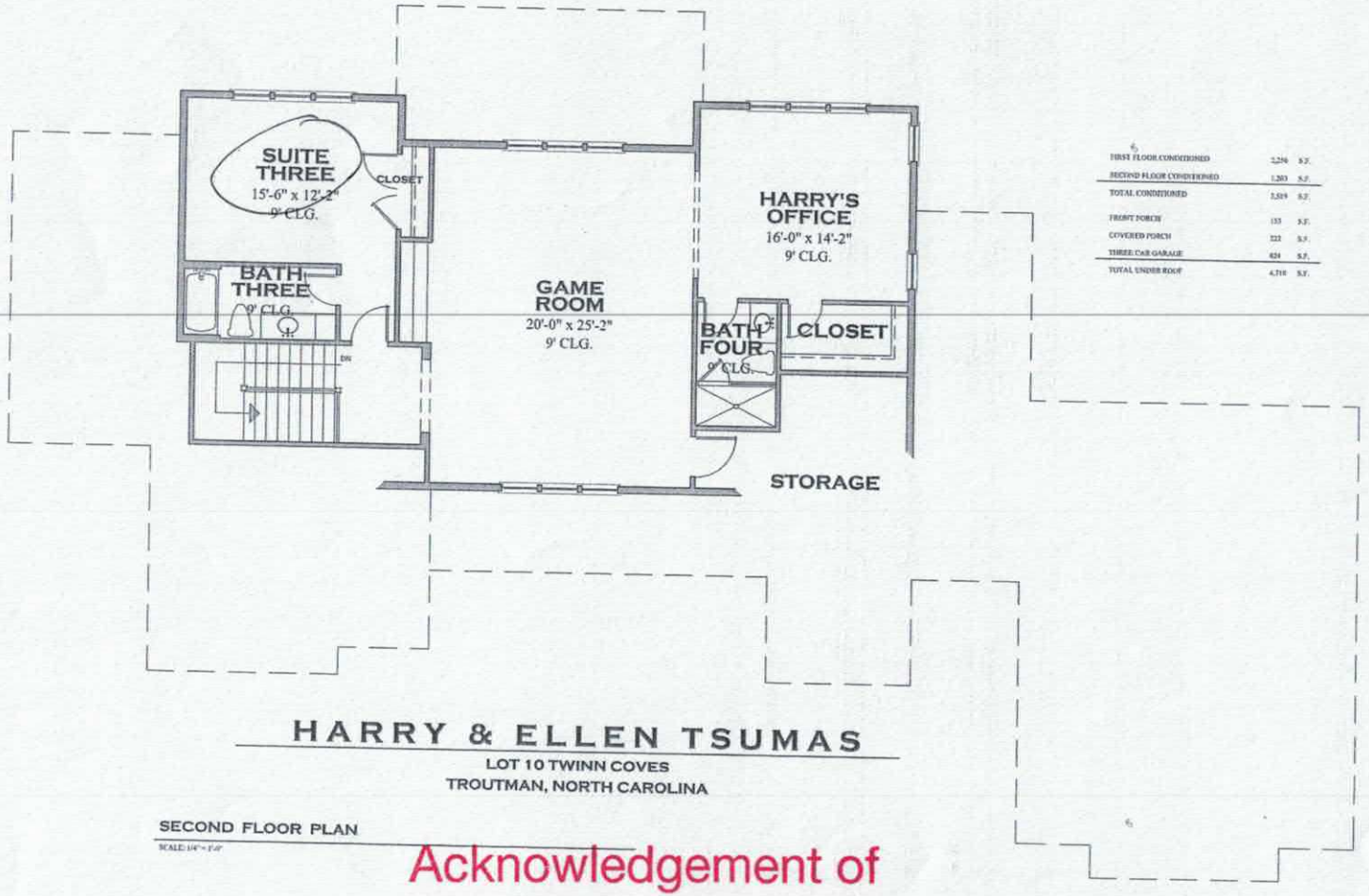
Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

See attached

Signature: _____ 5/3/18

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


Old Road Bed
Road Bed
End of Common
Road Maintenance
WELL
AREA
15'
Road Bed
Clearing Limits
50' Buffer
Pier
Septic Field
25'
Proposed Driveway
POWER TRANSFORMER
Proposed
House
Pool
Clearing Limits
Septic Field
102.2'
50' Buffer
LAKE NORMAN
LAKE NORMAN
Existing



FIRST FLOOR CONDITIONED	2,256	S.F.
SECOND FLOOR CONDITIONED	1,203	S.F.
TOTAL CONDITIONED	3,519	S.F.
FRONT PORCH	133	S.F.
COVERED PORCH	222	S.F.
THREE CAR GARAGE	824	S.F.
TOTAL UNDER ROOF	4,719	S.F.

OCEAN 3 DESIGN Inc

NORTH CAROLINA
P.O. BOX 19141
WILMINGTON, NC 28416
910.409.3811 VOICE
WWW.OCEAN3DESIGN.COM

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HARRY & ELLEN TSUMAS

LOT 10 TWINN COVES
TROUTMAN, NORTH CAROLINA

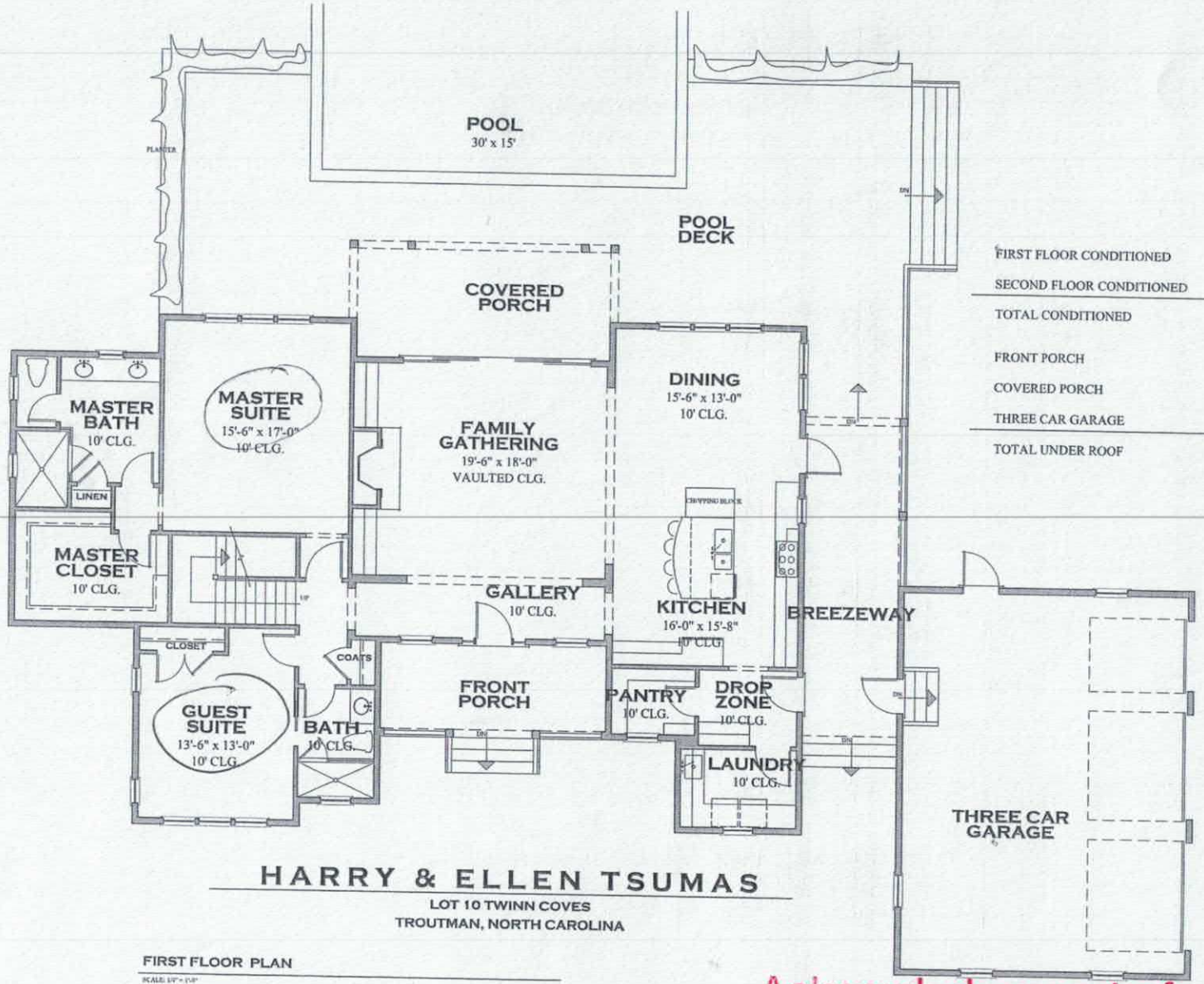
SECOND FLOOR PLAN

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

Acknowledgement of
Plans Submittal ONLY!

Date 8/4/16

Date 8/4/16



FIRST FLOOR CONDITIONED	2,256	S.F.
SECOND FLOOR CONDITIONED	1,263	S.F.
TOTAL CONDITIONED	3,519	S.F.
FRONT PORCH	153	S.F.
COVERED PORCH	222	S.F.
THREE CAR GARAGE	824	S.F.
TOTAL UNDER ROOF	4,718	S.F.

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LOT 10 TWINN COVES
TROUTMAN, NORTH CAROLINA

FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

Acknowledgement of Plans Submittal ONLY!

Date 8/4/16

Date 8/4/16