



**Improvement Permit for Wastewater Systems**  
 Article II - Chapter 130A of the NC General Statutes  
**CHATHAM COUNTY PUBLIC HEALTH DEPARTMENT**  
**DIVISION OF ENVIRONMENTAL HEALTH**  
 80 EAST ST., P.O. BOX 130 - PITTSBORO, NC 27312-0130  
 PHONE 919-542-8208 / FAX 919-542-8288  
[www.chathamnc.org/environmentalhealth](http://www.chathamnc.org/environmentalhealth)

Expiration Date: MARCH 1, 2029

New

Owner: ELIZABETH BIGGERS  
 911 Address: TBD NC HWY 87 N, PITTSBORO, NC 27312  
 Parcel Number: 10785 PARENT – LOT 1  
 Subdivision Name: N/A  
 Subdivision Lot: LOT 1

An Improvement Permit is issued to ELIZABETH BIGGERS for a site on a 4.602 acre parcel located at TBD NC HWY 87 N in Chatham County. It is specifically issued for the following facility:

Facility: Single Family Dwelling Number of Bedrooms: 5  
Type of Wastewater: Domestic Max Number of Occupants: 10  
Design Flow: 600 GPD Application Rate: 0.12 GPD/ft<sup>2</sup> (see attached K-Sat results)

Initial System Type: V Trench Product: Aerobic Drip

Tank(s) Size with Risers and Effluent Filter: ST 1,250 Gal PT 1,250 Gal

Nitrification Line: Length: 2500 ft. Width: 2 in. Max Depth: 6 in. on downslope sidewall

\*On contour in approved septic area; Sch. 40 PVC required over step-downs.

Repair System Type: TS II Pretreatment Drip

**Special Conditions:** Engineered designs and plans must be submitted and approved by DHHS prior to issuance of Construction Authorization. Preconstruction meeting required. Drainfield must be covered with at least 6" of soil.

- This permit is valid for five years but is subject to revocation if the site is altered, soil disturbed, setbacks violated, or the plans of intended use are changed.
- A site plan showing specific location of the facility, the site of the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.
- The Improvement Permit shall not be affected by change in ownership.
- A Construction Authorization must be obtained from this office before installation and prior to applying for building permits.
- Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams and step-downs.

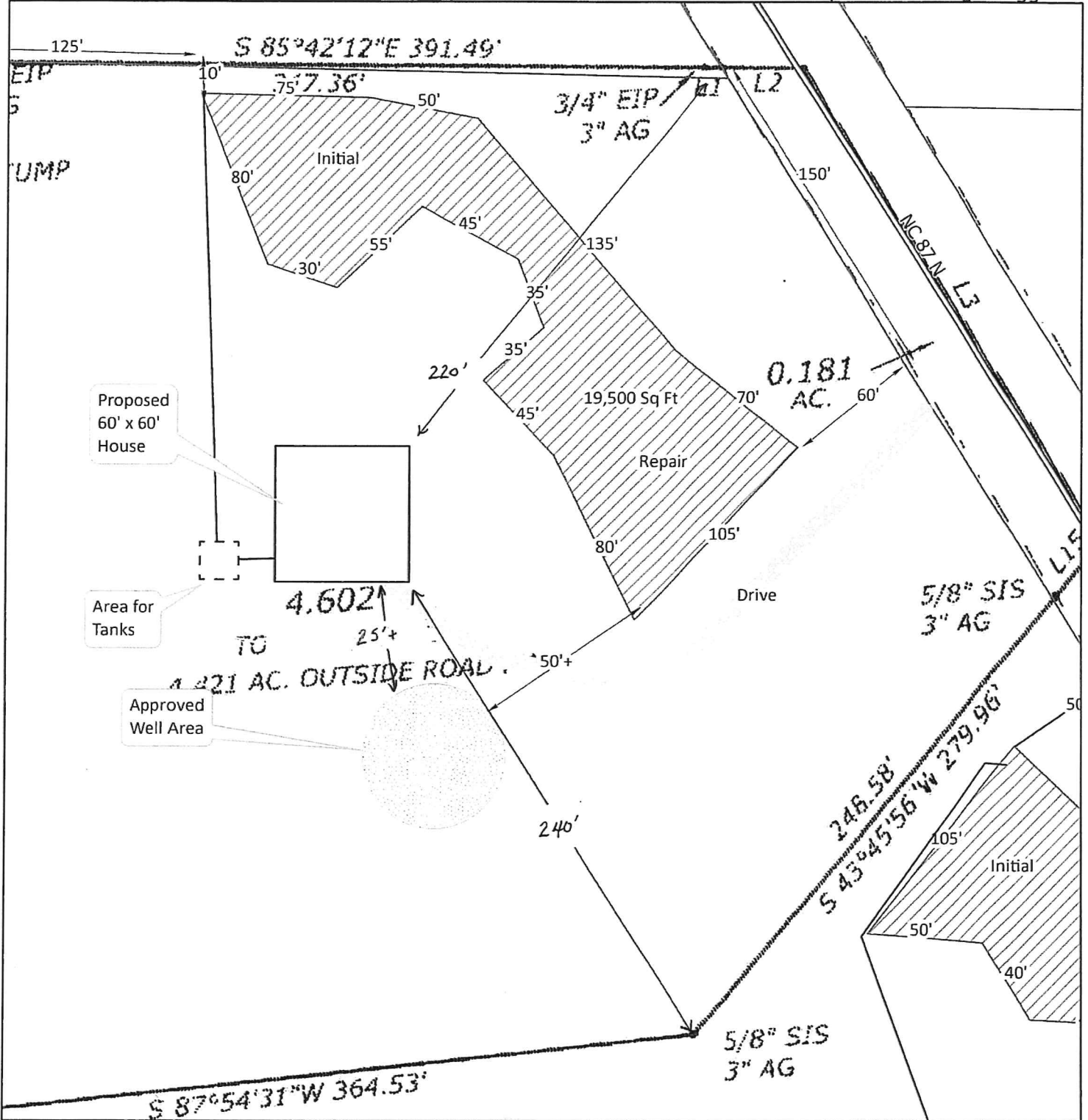
**THIS IS NOT AN AUTHORIZATION TO INSTALL.**

Issued by: Ray Milosh NC Registration #: 2977 Date: 3/1/2024  
 Ray Milosh – Registered Environmental Health Specialist

# Improvement Permit Site Map <sup>1/2</sup>

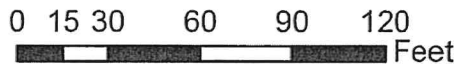
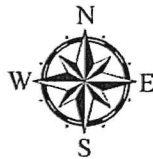
Parcel Number: 10785 Parent - Lot 1

Owner: Kristopher and Margie Biggers



**Legend**

- Approved Well Area
- Approved System Area
- Road Centerlines
- Parcels



Author: Ray Mitchell

Date: 3/1/2024

# IMPROVEMENT PERMIT SITE MAP # 10785 PARENT LOT 1 AND 2 ELIZABETH BIGGERS

Ray Campbell  
2/29/2024



STATE OF NORTH CAROLINA  
MICHAEL CARR  
Professional Engineer  
License No. 4893  
Exp. 12/31/2024

THIS PERMIT IS ISSUED FOR THE PROPOSED IMPROVEMENTS TO THE PROPERTY DESCRIBED IN THE PERMIT APPLICATION AND IS VALID FOR THE TERM SPECIFIED IN THE PERMIT. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM OTHER AGENCIES AND FOR OBTAINING THE NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE ADJACENT PROPERTY OWNERS. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES ON THE PROPERTY AND FOR THE PROTECTION OF THE ADJACENT PROPERTY. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES ON THE PROPERTY AND FOR THE PROTECTION OF THE ADJACENT PROPERTY.

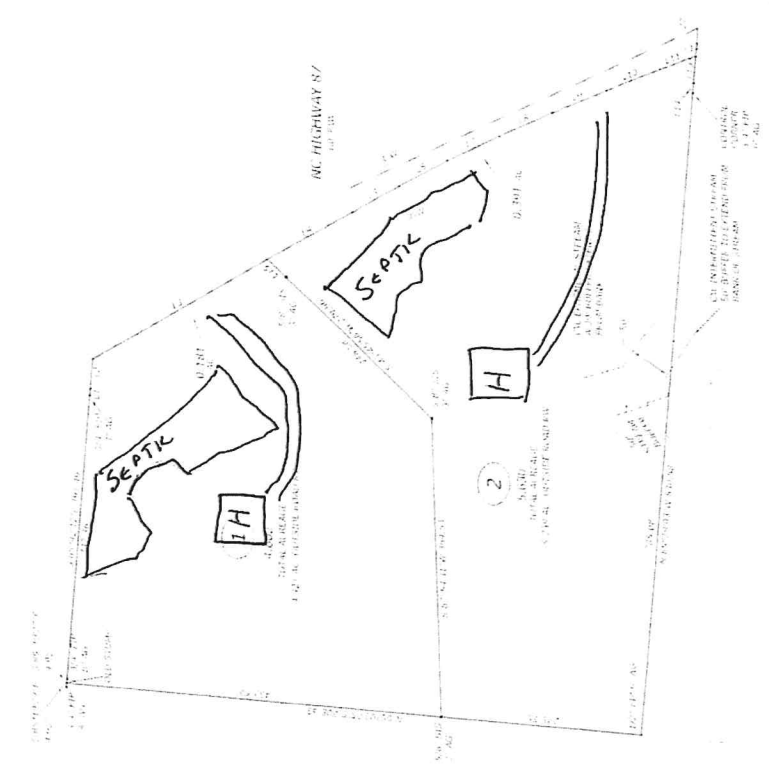
**Michael Carr**  
Professional Engineer  
License No. 4893  
Exp. 12/31/2024

OWNER: KRISTOPHER D. MARGIE E. BIGGERS  
ADDRESS: 10785 PARENT LOT 1 AND 2 ELIZABETH BIGGERS  
CHATHAM COUNTY, NC  
DATE: 2/29/2024  
SCALE: 1" = 100'



NOTE: ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE ALTERNATE DIMENSIONS. DIMENSIONS IN BOLD TYPE ARE THE DIMENSIONS TO BE USED FOR THE PERMIT. DIMENSIONS IN REGULAR TYPE ARE FOR INFORMATION ONLY.

NO.	DESCRIPTION	LENGTH	WIDTH	AREA
1	LOT 1	107.00	107.00	11449.00
2	LOT 2	107.00	107.00	11449.00
3	LOT 3	107.00	107.00	11449.00
4	LOT 4	107.00	107.00	11449.00
5	LOT 5	107.00	107.00	11449.00
6	LOT 6	107.00	107.00	11449.00
7	LOT 7	107.00	107.00	11449.00
8	LOT 8	107.00	107.00	11449.00
9	LOT 9	107.00	107.00	11449.00
10	LOT 10	107.00	107.00	11449.00
11	LOT 11	107.00	107.00	11449.00
12	LOT 12	107.00	107.00	11449.00
13	LOT 13	107.00	107.00	11449.00
14	LOT 14	107.00	107.00	11449.00
15	LOT 15	107.00	107.00	11449.00
16	LOT 16	107.00	107.00	11449.00
17	LOT 17	107.00	107.00	11449.00
18	LOT 18	107.00	107.00	11449.00
19	LOT 19	107.00	107.00	11449.00
20	LOT 20	107.00	107.00	11449.00
21	LOT 21	107.00	107.00	11449.00
22	LOT 22	107.00	107.00	11449.00
23	LOT 23	107.00	107.00	11449.00
24	LOT 24	107.00	107.00	11449.00
25	LOT 25	107.00	107.00	11449.00
26	LOT 26	107.00	107.00	11449.00
27	LOT 27	107.00	107.00	11449.00
28	LOT 28	107.00	107.00	11449.00
29	LOT 29	107.00	107.00	11449.00
30	LOT 30	107.00	107.00	11449.00
31	LOT 31	107.00	107.00	11449.00
32	LOT 32	107.00	107.00	11449.00
33	LOT 33	107.00	107.00	11449.00
34	LOT 34	107.00	107.00	11449.00
35	LOT 35	107.00	107.00	11449.00
36	LOT 36	107.00	107.00	11449.00
37	LOT 37	107.00	107.00	11449.00
38	LOT 38	107.00	107.00	11449.00
39	LOT 39	107.00	107.00	11449.00
40	LOT 40	107.00	107.00	11449.00
41	LOT 41	107.00	107.00	11449.00
42	LOT 42	107.00	107.00	11449.00
43	LOT 43	107.00	107.00	11449.00
44	LOT 44	107.00	107.00	11449.00
45	LOT 45	107.00	107.00	11449.00
46	LOT 46	107.00	107.00	11449.00
47	LOT 47	107.00	107.00	11449.00
48	LOT 48	107.00	107.00	11449.00
49	LOT 49	107.00	107.00	11449.00
50	LOT 50	107.00	107.00	11449.00
51	LOT 51	107.00	107.00	11449.00
52	LOT 52	107.00	107.00	11449.00
53	LOT 53	107.00	107.00	11449.00
54	LOT 54	107.00	107.00	11449.00
55	LOT 55	107.00	107.00	11449.00
56	LOT 56	107.00	107.00	11449.00
57	LOT 57	107.00	107.00	11449.00
58	LOT 58	107.00	107.00	11449.00
59	LOT 59	107.00	107.00	11449.00
60	LOT 60	107.00	107.00	11449.00
61	LOT 61	107.00	107.00	11449.00
62	LOT 62	107.00	107.00	11449.00
63	LOT 63	107.00	107.00	11449.00
64	LOT 64	107.00	107.00	11449.00
65	LOT 65	107.00	107.00	11449.00
66	LOT 66	107.00	107.00	11449.00
67	LOT 67	107.00	107.00	11449.00
68	LOT 68	107.00	107.00	11449.00
69	LOT 69	107.00	107.00	11449.00
70	LOT 70	107.00	107.00	11449.00
71	LOT 71	107.00	107.00	11449.00
72	LOT 72	107.00	107.00	11449.00
73	LOT 73	107.00	107.00	11449.00
74	LOT 74	107.00	107.00	11449.00
75	LOT 75	107.00	107.00	11449.00
76	LOT 76	107.00	107.00	11449.00
77	LOT 77	107.00	107.00	11449.00
78	LOT 78	107.00	107.00	11449.00
79	LOT 79	107.00	107.00	11449.00
80	LOT 80	107.00	107.00	11449.00
81	LOT 81	107.00	107.00	11449.00
82	LOT 82	107.00	107.00	11449.00
83	LOT 83	107.00	107.00	11449.00
84	LOT 84	107.00	107.00 </tr	



NOTES:  
1. ALL DIMENSIONS ARE IN FEET AND INCHES.  
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DATE: 2/29/2024  
SCALE: 1" = 100'

SOIL/SITE EVALUATION  
On-Site Wastewater System

Applicant / Landowner: CHRISTOPHER BIGGERS TPN: 10785 Date: 10/10/23  
 Sub-Division Name and Lot #: N/A  
 Property Address / Road Name: FBD NC HWY 87  
 Proposed Facility: SP DWELLING Proposed Design Flow: 600 Property Size: 2.5 ACRES  
 Water Supply:  Well  Public  Private  Other:  
 Evaluation Method:  Auger  Pit  Cut Type of Wastewater:  Sewage  Industrial  Mixed

PROFILE #	.1940 LANDSCP POS./ SLOPE %	HORIZON DEPTH (in.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS			.1948 PROFILE CLASSIFICATION & LTAR
			.1941(a)(1) & (a)(2) TEXTURE / STRUCTURE	.1941(a)(3) CONSISTENCE / MINEROLOGY	.1942 SOIL WETNESS / COLOR	.1943 / .1956 SOIL DEPTH / SAPROLITE	.1944 RESTRICTIVE HORIZON	
1	LS L2"	0-8	SBK L	VFR SC	7.5 YR 6/2 18"	-	-	PS
		8-18	SBK CL	VFR SE				
2	LS L2	0-27	SBK CL	VFR SC	7.5 YR 7/2 27"	-	-	PS 0.4
3	LS L2	0-14	SBK CL	VFR SC	7.5 YR 8/2 14"	-	-	PS
8	LS 2 1/2	0-8	SBK CL	VFR SC	-	PM	-	PS
		8-32	SBK SC	VFR SC				
9	LS 3-5	0-21	SBK CL	VFR SC	7.5 YR 8/2 21"	-	-	PS 0.4
DESCRIPTOR		INITIAL SYSTEM	REPAIR SYSTEM	Other Factors (.1946)				
Available Space (.1945)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Site Classification (.1948)				
System Type		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Evaluated By: <u>RAY MILES</u>				
Site LTAR				Others Present: <u>CHRIS BIGGERS</u>				
Comments:								

NOTES:

HORIZON DEPTH - In inches below natural soil surface  
 SOIL WETNESS/COLOR - Inches below natural soil surface to free water or soil colors with chroma 2 or less; record Munsell color  
 SOIL DEPTH - In inches below natural soil surface to rock, saprolite, or parent material  
 SAPROLITE CLASS - S (suitable) or U (unsuitable)  
 RESTRICTIVE HORIZON - Thickness and depth from land surface  
 PROFILE CLASS - S (suitable), PS (provisionally suitable), or U (unsuitable)

LEGEND:

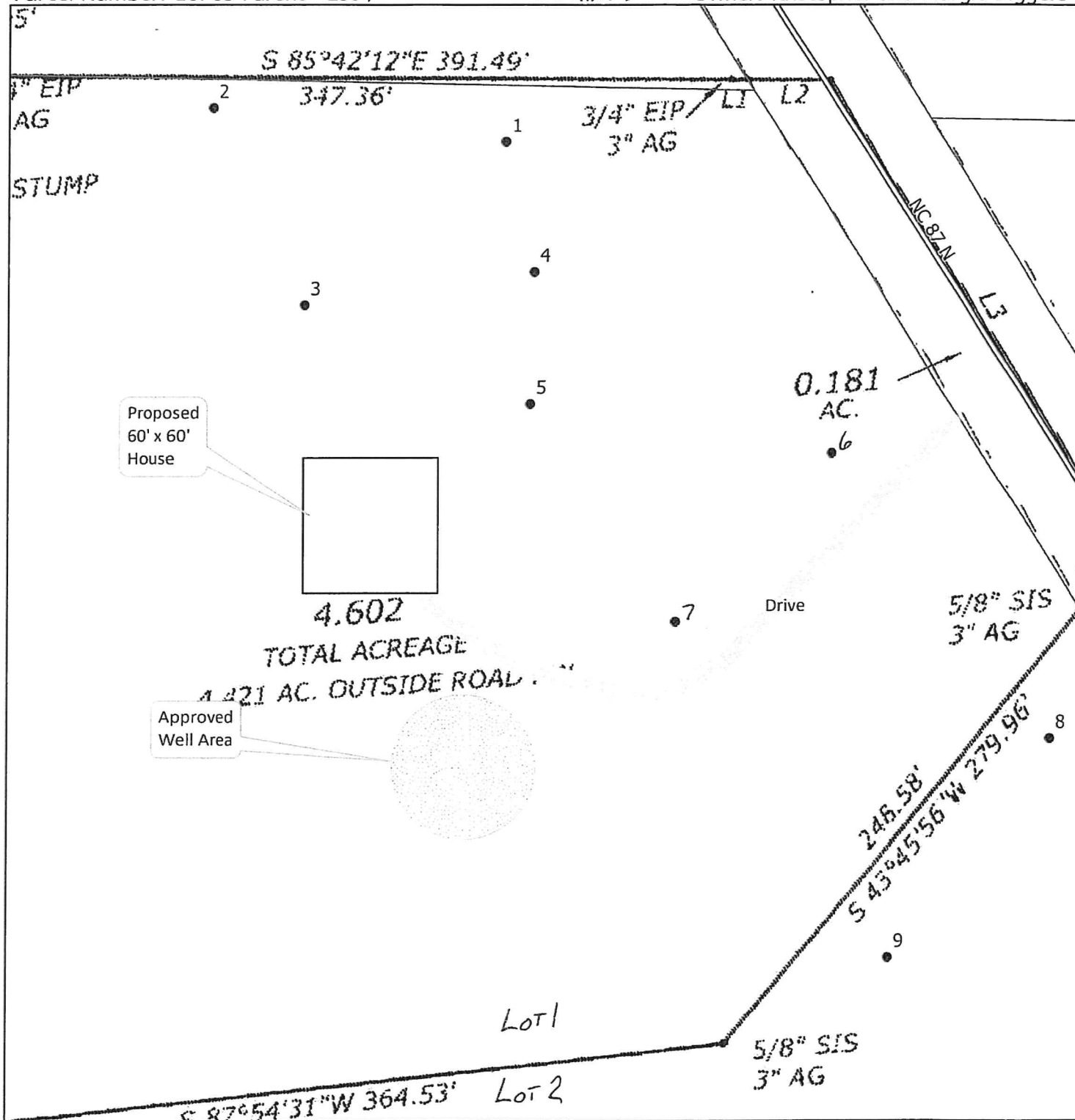
LANDSCAPE POSITION	GROUP	TEXTURE	LTAR		STRUCTURE	WET CONSISTENCE
			CONVENTIONAL	LTAR, LPP		
CC (concave slope)	I (Suitable)	S (Sand)	1.2 - 0.3	0.6 - 0.4	SG (Single Grain) - S	NS (Non-Sticky) - S
CV (convex slope)		LS (Loamy Sand)			M (Massive) - US	SS (Slightly Sticky) - S
D (drainage way)	II (Suitable)	SL (Sandy Loam)	0.3 - 0.6	0.4 - 0.3	CR (Crumb) - S	S (Sticky) - S
DS (debris slump)		L (Loam)			GR (Granular) - S	VS (Very Sticky) - US
FP (flood plain)	III (Prov. Suitable)	Si (Silt)	0.6 - 0.3	0.3 - 0.15	SBK (Subangular Blocky) - S	NP (Non-Plastic) - S
FS (foot slope)		SiCL (Silty Clay Loam)			ABK (Angular Blocky) - S	SP (Slightly Plastic) - S
H (head slope)	IV (Prov. Suitable)	SCL (Sandy Clay Loam)	0.4 - 0.1	0.2 - 0.05	PL (Platy) - US	P (Plastic) - S
L (linear slope)		Sil (Silt Loam)			PR (Prismatic) - US	VP (Very Plastic) - US
N (nose slope)		SC (Sandy Clay)			<b>MOIST CONSISTENCE</b>	
R (ridge)		SiC (Silty Clay)			VFR (Very Friable) - S	SEXP (Slightly Expansive) - S
S (shoulder slope)		C (Clay)			FR (Friable) - S	EXP (Expansive) - US [VFI, EFI, VS, or VP]
T (terrace)					FI (Firm) - S	
					VFI (Very Firm) - US	
					EFI (Extremely Firm) - US	

SLOPE < 15% - S; 15% - 30% - PS; > 30% - US [30% - 65% reclassify PS if comply with 1356; > 65% US]



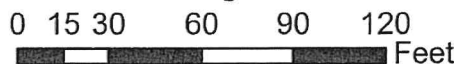
# Improvement Permit Site Map

Parcel Number: 10785 Parent - Lot 1 *Soil BORING LOCATIONS* Owner: Kristopher and Margie Biggers



**Legend**

- Auger Boring Sites
- Approved Well Area
- Road Centerlines
- Parcels



Author: *Ray Mitchell*  
 Date: 3/1/2024