

**SOIL/SITE EVALUATION
 for ON-SITE WASTEWATER SYSTEM**

Owner: *Denny Sutton* Applicant: *TST Builders Inc.*
 Address: *Lot 403 Buffalo Lake Rd.* Date Evaluated: *03/08/17*
 Proposed Facility: *48R SFD* Design Flow (.1949): *480 gal/day* Property Size: *1.66 Ac.*
 Location of Site: *Sutton Subdivision* Property Recorded: *Yes*
 Water Supply: Public Individual Well Spring Other
 Evaluation Method: Auger Boring Pit Cut
 Type of Wastewater: Sewage Industrial Process Mixed

P R O F I L E #	.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 (IN.)	.1956 Sapro Class	.1944 Restr Horiz		
										1
2	R	0-48	Gr. LS/SL	Vfr. SSP Slep		48			S/0.6	
3	R	0-48	Gr. LS/SL	Vfr. SSP Slep		48			S/0.6	

Description	Initial System	Repair System	Other Factors (.1946):
Available Space (.1945)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Site Classification (.1948): <i>Suitable</i>
System Type(s)	<i>25% Red.</i>	<i>25% Red.</i>	Evaluated By: <i>Andrew Curran, RENG</i>
Site LTAR	<i>0.6</i>	<i>0.6</i>	Others Present:

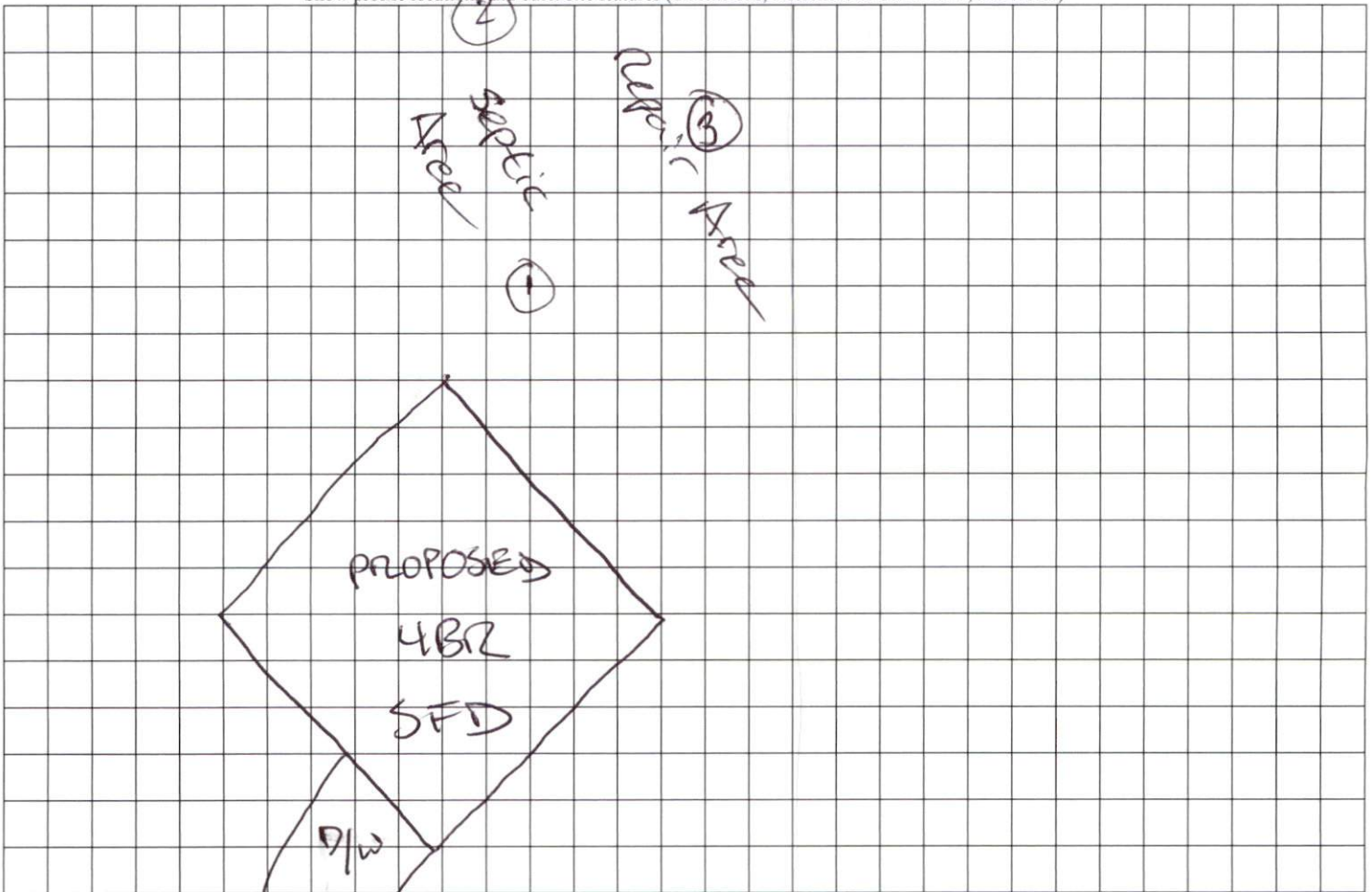
COMMENTS: _____

LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND	1.2 - 0.8	VFR-VERY FRIABLE	NS-NON-STICKY
S-SHOULDER SLOPE		LS-LOAMY SAND		FR-FRIABLE	SS-SLIGHTLY STICKY
L-LINEAR SLOPE	II	SL-SANDY LOAM	0.8 - 0.6	FI-FIRM	S-STICKY
FS-FOOT SLOPE		L-LOAM		VFI-VERY FIRM	VS-VERY STICKY
N-NOSE SLOPE	III	SI-SILT	0.6 - 0.3	EFI-EXTREMELY FIRM	NP-NON-PLASTIC
H-HEAD SLOPE		SIL-SILT LOAM			SP-SLIGHTLY STICKY
CC-CONCLAVE SLOPE		CL-CLAY LOAM			P-PLASTIC
CV-CONVEX SLOPE		SCL-SANDY CLAY LOAM			VP-VERY PLASTIC
T-TERRACE	IV	SIC-SILTY CLAY	0.4 - 0.1		
FP-FLOOD PLAN		C-CLAY			
		SC-SANDY CLAY			

STRUCTURE
 SG-SINGLE GRAIN
 M- MASSIVE
 CR-CRUMB
 GR-GRANULAR
 SBK-SUBANGULAR BLOCKY
 ABK-ANGULAR BLOCKY
 PL-PLATY
 PR-PRISMATIC

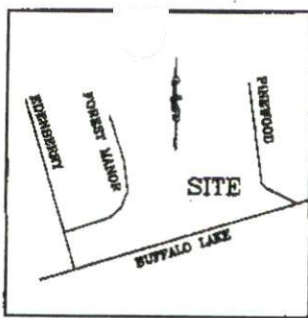
MINERALOGY
 SLIGHTLY EXPANSIVE
 EXPANSIVE

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

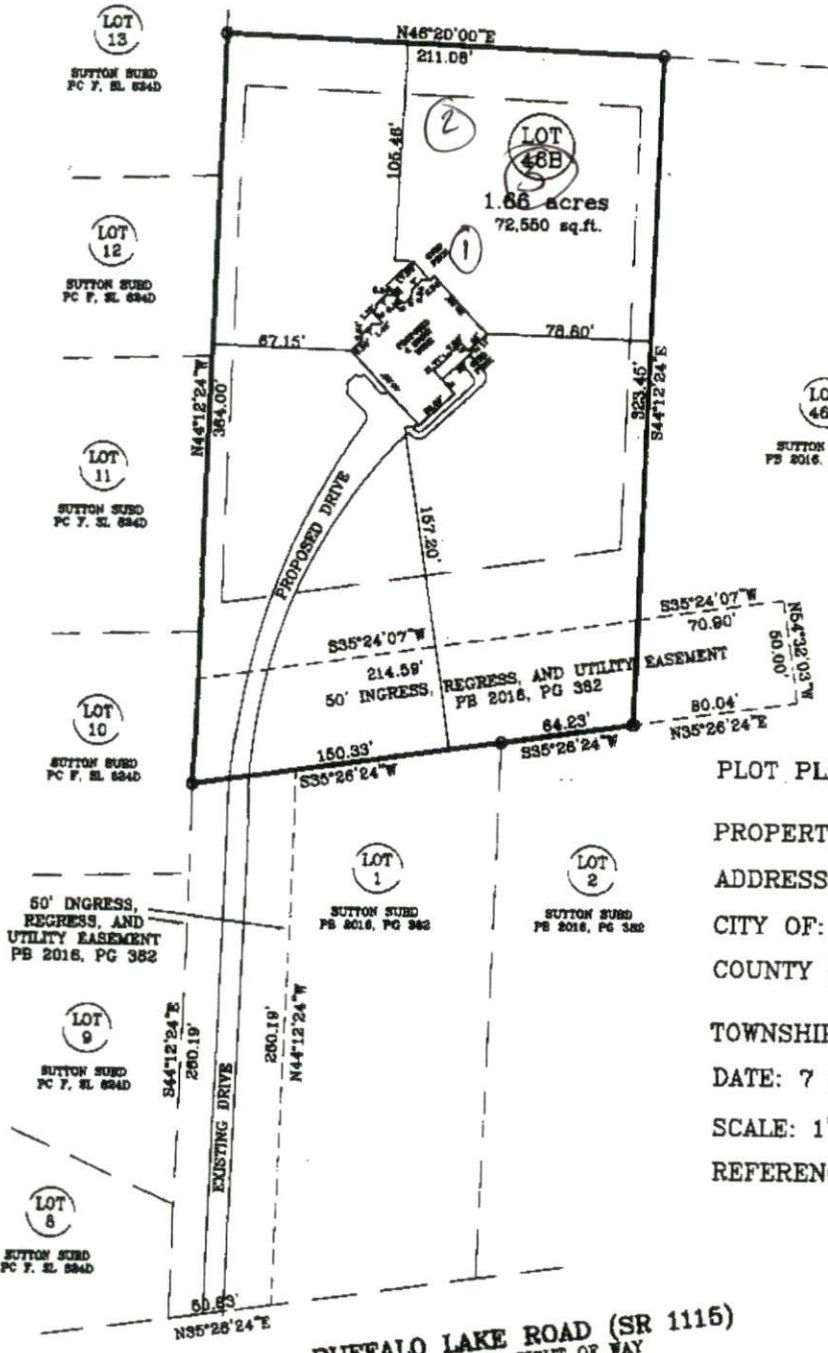


NOTE : CONTRACTOR TO VERIFY A BUILDING SETBACKS PRIOR TO CONSTRUCTION.

LOT 47
PB 14, PG 30



VICINITY MAP
(NO SCALE)



LOT 46A
SUTTON SUBD
PB 2016, PG 382



PLOT PLAN

PROPERTY OF: JSJ
 ADDRESS: OFF BUFFALO LAKE RD
 CITY OF: SANFORD
 COUNTY OF: HARNETT
 TOWNSHIP OF: BARBECUE
 DATE: 7 FEB 2017
 SCALE: 1" = 40'
 REFERENCE: LOT 46B
 SUTTON SUBDIVISION
 PB 2016, PG 382

GRAPHIC SCALE



(IN FEET)
1 inch = 60 ft.

BUFFALO LAKE ROAD (SR 1115)
60' PUBLIC RIGHT OF WAY

I, W. LARRY KING, CERTIFY THAT THIS MAP IS FOR THE PURPOSE OF PERMITTING ONLY. IT IS NOT A SURVEY AND NO RELIANCE MAY BE PLACED ON THE ACCURACY. THE STRUCTURE SHOWN ON THIS PLOT PLAN IS PLACED ACCORDING TO THE DIMENSIONS GIVEN BY THE BUILDER. ALL DIMENSIONS AND SETBACKS SHOULD BE VERIFIED FOR COMPLIANCE WITH ZONING AND COVENANTS.

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THIS MAP CAN NOT BE USED FOR RECONSTRUCTION OR ATTACHED TO A DEED TO BE RECORDED. THIS MAP IS NOT DRAWN IN ACCORDANCE WITH GS 47-30.

THE BOUNDARY AND LOT INFORMATION SHOWN ON THIS MAP IS TAKEN FROM THAT DOCUMENT DESCRIBED BY THE REFERENCE LINE SHOWN HEREON. THIS INFORMATION SHOULD BE CONFIRMED AS THE MOST CURRENT FOR THIS PROPERTY BEFORE INSURANCE OF PERMITS OR COMMENCEMENT OF CONSTRUCTION. NO TITLE SEARCH WAS PERFORMED ON THIS PROPERTY BY THIS SURVEYOR.

Southeastern Soil & Environmental Associates, Inc.

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Email mike@southeasternsoil.com

November 22, 2016

Harnett County Health Department
307 Cornelius Harnett Blvd.
Lillington, N.C. 27546

Re: Soil evaluations and final septic recommendations, Lots 46A & 46B, Crystal Sutton Subdivision, Pine Wood Road, Harnett County, North Carolina

To whom it may concern,

A preliminary soils investigation has been completed for each of the above referenced lots. The property is located off Pine Wood Road as shown on the accompanying map. The purpose of the investigation was to determine the ability of the soil to support any subsurface waste disposal system for each proposed lot. Lots can be served by private well or public water. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Lot 46B appears to contain at least one area that meets minimum criteria for subsurface waste disposal systems for at least a typical 5 bedroom home (60' x 60' box; may include the use of conventional drainlines, gravelless drainlines, pumps, fill, French drains, pretreatment, etc.). Soil characteristics in the usable areas were dominantly provisionally suitable to at least 36 inches including those specified in rules .1940, .1941, .1942, .1943, .1944 and .1945. A soil map indicating typical soil areas that meet these criteria is enclosed. Each of the lots appears to contain sufficient available space for a repair area for at least a typical 5 bedroom home (may include the use of any of the systems mentioned above).

Any or all lots may require specific design/layout on our part prior to action by the local health department due to space and soil considerations (at separate cost to client). Alternative systems (mentioned above) could be required on any lot to compensate for shallow unsuitable soil conditions. Specific house locations, house sizes, driveway locations and/or side entry garages may be required on any individual lot.

Lot 46A appears to contain an existing subsurface waste disposal system. Adequate repair area with provisionally suitable soil (see above) exists on the proposed lot. It appears that existing drain lines will not encroach on the 10 foot setback requirement from new property lines. **Because existing septic lines are difficult to locate, we do not guarantee that the property line setback is met. Adequate soil area for new septic and additional repair area exists if lines or tanks should need to be relocated in the future.**

As with any property, this report does not guarantee, represent or imply approval or issuance of improvement permit as needed by the client from the local health department (as such, any potential buyers of these properties should obtain appropriate permits from the local health department prior to making and/or completing purchase obligations or financial commitments. Since professional opinions sometimes differ, an actual permit issuance is the only guarantee of a site's suitability for a buyers intended use.). This report only addresses rules in force at the time of evaluation. Permits will only be granted if the local health department concurs with the findings of this report. This report only represents my professional opinion as a licensed soil scientist. I trust this is the information you require at this time. If you have any questions, please call.

Sincerely,



Mike Eaker
NC Licensed Soil Scientist



