

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM
 (Complete all fields in full)

OWNER: Smith Douglas Home DATE EVALUATED: 2-23-24
 ADDRESS: 46 Carolina Street
 PROPOSED FACILITY: SFD 34' x 40' PROPOSED DESIGN FLOW (.0400): 480 PROPERTY SIZE: _____
 LOCATION OF SITE: _____ PROPERTY RECORDED: _____
 WATER SUPPLY: Public Single Family Well Shared Well Spring Other _____ WATER SUPPLY SETBACK: _____
 EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1	2-3% LS	0-8	SL, gr	F _g , NS, NP, SE	7.5/1R 5/8 7/2 = 28"	48"			.35	
		8-28	SCL, SBK	F _g , SS, NP, SE						
		28-48	CL, WK SBK	F _g , SS, NP, SE						
2	2-3% LS	0-20	SL, gr	F _g , NS, NP, SE	7.5/1R 5/4 7/2 = 28"	48"			.35	
		20-28	SCL, SBK	F _g , SS, NP, SE						
		28-48	CL, WK/SBK	F _g , SS, NP, SE						
3	2-3% LS	0-20	SL, gr	F _g , NS, NP, SE	7.5/1R 5/4 7/2 = 21"	48"			.3	
		20-21	SCL, SBK	F _g , SS, NP, SE						
		21-48	CL, WK/SBK	F _g , SS, NP, SE						
4										

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Type(s)	<u>25% Red</u>	<u>50% Red</u>
Site LTAR	<u>.35</u>	<u>.35</u>
Maximum Trench Depth	<u>15"</u>	<u>15"</u>

SITE CLASSIFICATION (.0509): 5
 EVALUATED BY: RL/JM
 OTHER(S) PRESENT: _____

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft ²)	SAPROLITE LTAR (gpd/ft ²)	LPP LTAR (gpd/ft ²)	MINERALOGY/ CONSISTENCE		STRUCTURE	
						MOIST	WET		
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 - 0.6	MOIST	WET	SG (Single grain)	
CV (Convex Slope)		LS (Loamy sand)		0.5 - 0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)	
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 - 0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)	
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)	
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)	
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)	
L (Linear Slope)		CL (Clay loam)		None		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	VP (Very plastic)	
R (Ridge/summit)		Si (Silt)							
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4	0.05 - 0.2	SEXP (Slightly expansive)				
T (Terrace)		SiC (Silty clay)			EXP (Expansive)				
TS (Toe Slope)		C (Clay)							
		O (Organic)	None						

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saporlite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

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); Evaluation of saporlite shall be by pits.

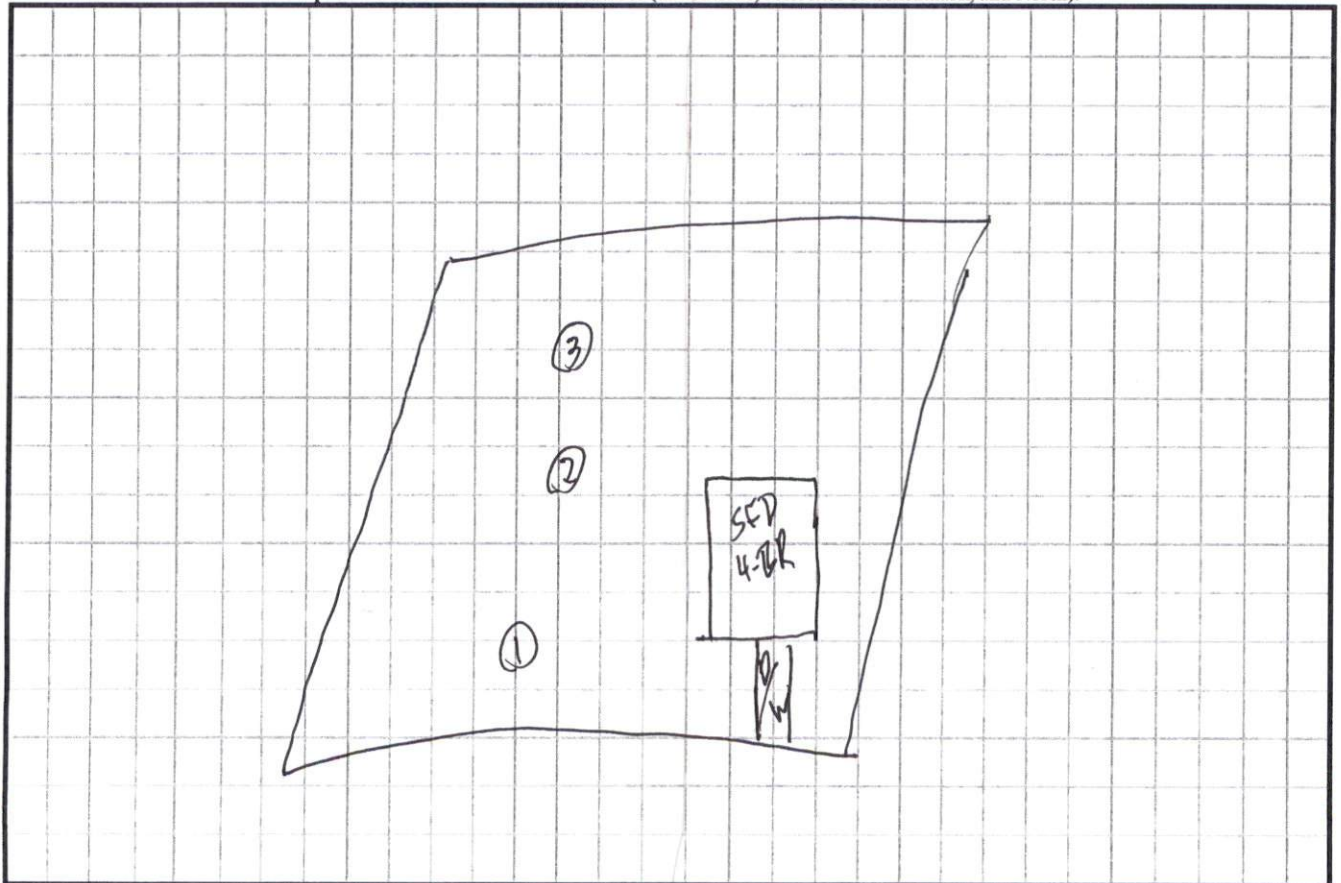
SOIL WETNESS

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

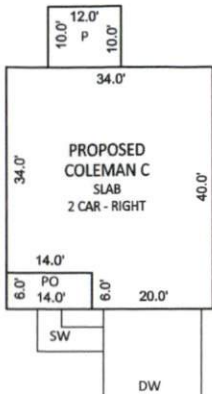
S (Suitable) or U (Unsuitable)

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



LOT INFORMATION:

PIN: 0693-47-2120.000
 REFERENCE: DB. 4212 PG 1222
 TOTAL LOT AREA = 0.65 AC = 20,063 SF
 MAX. IMPERVIOUS = 5,500 SF
 HOUSE = 1,276 SF
 PORCH = 84 SF
 SIDEWALKS = 56 SF
 DRIVEWAY = 759 SF
 PATIO = 120 SF
 PROPOSED IMPERVIOUS = 2,295 SF
 PERCENT IMPERVIOUS = 11.44 %



INSET SCALE: 1"=20'

NOTES:

- THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
- THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
- PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
- THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
- THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK.
- NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
- SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA. IT IS LOCATED IN ZONE "X" PER F.E.M.A. MAP NUMBER 3720068200J DATED 10/03/2006.
- ZONING: RA-30
- PROPERTY OWNER: SMITH DOUGLAS HOMES
2520 RELIANCE AVENUE
APEX, NC 27539

REVISION : MOVE HOUSE BACK TO 45' FROM FRONT PROPERTY LINE. AHB 2/2/24



BUILDING SETBACKS

FRONT - 35'
 REAR - 25'
 SIDE - 10'
 SIDE CORNER - 20'



Bateman Civil Survey Company

Engineers • Surveyors • Planners
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 www.batemancivilsurvey.com info@batemancivilsurvey.com
 NCBELS Firm No. C-2378

VICINITY MAP

(Not to Scale)



LEGEND

- PO = PORCH
- CP = COVERED PORCH
- SP = SCREENED PORCH
- SW = SIDEWALK
- DW = CONC DRIVEWAY
- SP = SCREENED PORCH
- P = CONCRETE PATIO
- ⊗ = COMPUTED POINT
- ⊙ = IRON PIPE FOUND (IPF)
- ⊙ = IRON PIPE SET (IPS)
- = DRILL HOLE FOUND
- ⊕ = WATER METER
- CO = CLEAN OUT
- AC = AIR CONDITIONER PAD
- ⊙ = CABLE BOX
- ⊙ = SEWER MANOLE
- ⊕ = TELEPHONE PEDESTAL
- CB = CATCH BASIN
- ⊙ = LIGHT POLE
- ⊕ = HAND HOLE
- ⊕ = ELECTRIC BOX
- ⊕ = FIRE HYDRANT
- YI = YARD INLET
- G = GAS METER
- E = ELECTRIC METER
- LW = LEAD WALK

I, STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA, L-4752
 DATED:

PRELIMINARY

This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

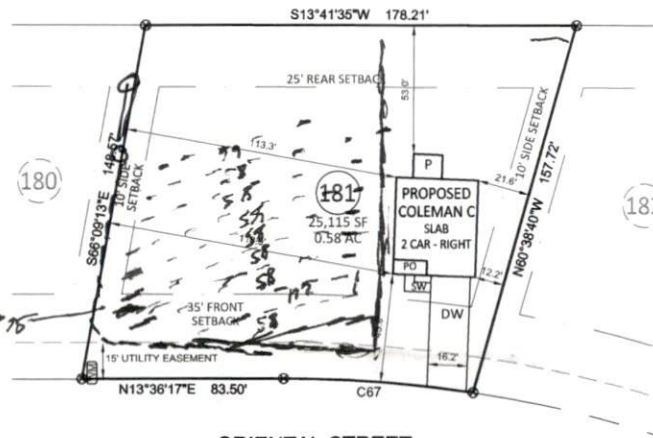
BUILDER TO VERIFY HOUSE LOCATION DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN
 FOR
SMITH DOUGLAS HOMES

TOBACCO ROAD - PHASE 1 & 3 - LOT 181
 46 ORIENTAL STREET, ANGIER, NC
 BLACK RIVER TOWNSHIP, HARNETT COUNTY

DATE: 2/1/24 DRAWN BY: AHB CHECKED BY: SPC

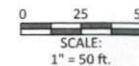
REFERENCE: BM 2023 PGS. 563-568 BCS# 230801 SCALE: 1" = 50'



ORIENTAL STREET
 50' PUBLIC R/W & UTILITY EASEMENT

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD DIRECTION	CHORD
C67	525.00'	78.60'	S17°53'38\"/>	



1 0-8 SL
8-28 GCL
28-48 CL
out 28" .35

2 0-20 SL
20-28 GCL
28-48 CL
out 28" .35

3 0-20 SL
20-21 GCL
21-48 CL
out 21" .35