



North Carolina Onsite Wastewater Contractor Inspector Certification Board  
Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems  
Notice of Intent (NOI) to Construct

☒ New ☐ Expansion ☐ Repair ☐ Relocation ☐ Relocation of Repair Area

Owner or Legal Representative Information:

Name: JSJ Builders Inc

Mailing address: 1135 Robeson St. City: Fayetteville State: NC Zip: 28305

Phone: 910-483-0796 Email: kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: John Kase Certification #: 10060E

Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311

Phone: 910-539-5439 Email: john@southeasternsoil.com



Site Location Information:

Site address: 263 Black Duck Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: \_\_\_\_\_

Parcel # 010527001249 Ducks Landing S/D Lot 94 County: Harnett

System Information:

Wastewater System Type: 11lb-Pump to Accepted Trenches with 25% reduction

Daily Design Flow: 360 GPD

Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☐ Yes ☒ No

Water Supply Type: ☐ Private Well ☐ Public Water Supply ☒ Spring Other: \_\_\_\_\_

Facility Type:

☒ Residential 3 # Bedrooms 6 Maximum # of Occupants

☐ Business Type of Business and Basis for Flow: \_\_\_\_\_

☐ Public Assembly Type of Public Assembly and Basis for Flow: \_\_\_\_\_

Required Attachments:

- ☒ Plat or Site Plan  
☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 3 day of June, 2025 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.  
This NOI shall expire on 3 day of June, 2030.

Signature of Authorized Onsite Wastewater Evaluator: john kase

Digitally signed by john kase  
DN: cn=John Kase, o=North Carolina Onsite Wastewater Contractor Inspector Certification Board, ou=North Carolina Onsite Wastewater Contractor Inspector Certification Board, email=john.kase@ncowcib.com, c=US  
Date: 2025.06.03 15:51:35-0400

Signature of Owner or Legal Representative: \_\_\_\_\_

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgement:

Signature of Local Health Department Representative: \_\_\_\_\_ Date: \_\_\_\_\_

# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321  
Fayetteville, NC 28311  
Phone/Fax (910) 822-4540  
Email [mike@southeasternsoil.com](mailto:mike@southeasternsoil.com)

June 3, 2025

Kevin Shortridge  
JSJ Builders, Inc.  
1135 Robeson Street  
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-335(A2)/SL 2022-11), 263 Black Duck Lane, Lillington, NC 27546, Parcel Number 010527001249, Lot 94, Ducks Landing Subdivision, Harnett County, North Carolina

Dear Mr. Shortridge,

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable or provisionally suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (3-bedroom home). All ratings and determinations were made in accordance with "Laws and Rules for Wastewater Treatment and Dispersal Systems, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-335(a2)/SL 2022-11.**

The soil evaluation was completed on June 2, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (5% slope). Soil borings conducted in most of this area consisted of 24 or more inches of loamy sand/sandy loam underlain by clay loam and clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 44 inches below the soil surface in the initial system and 48 inches in the repair system. All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated Suitable for a Pump System to Pressure Manifold with Accepted 25% reduction subsurface waste disposal drainfield (0.41 gal/day/ft<sup>2</sup> LTAR; initial system). There is enough suitable soil area to allow for Pump System to Pressure Manifold with Accepted 25% reduction subsurface subsurface septic system repair (0.41 gal/day/ft<sup>2</sup>). A map showing the approximate location of the site and proposed septic layout accompanies this report. If gravity flow cannot be achieved then a design revision may be required for a pump system. **[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]**

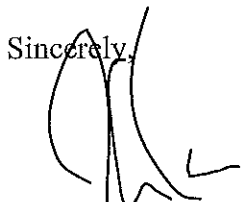
## Design Summary

- Initial System: Pump System to Pressure Manifold with Accepted 25% reduction trenches (220', see septic layout detail)
- 360 gal/day flow rate (3BR)
- 24" maximum trench depth as measured on the downhill side
- 0.41 gpd/ft<sup>2</sup> LTAR Pump to produce 21.9 gpm at 16.6 TDH
- Pump dose 118 gallons (4.7" drawdown-pending final pump tank gallons/inch)
- 1000-gallon septic tank and pump tank (**each certified watertight**)
- Repair System: Pump System to Pressure Manifold with Accepted 25% reduction trenches (220', see septic layout design detail)
- 24" maximum trench depth as measured on the downhill side
- 0.41 gpd/ft<sup>2</sup> LTAR
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- **Install in dry soil conditions**
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system

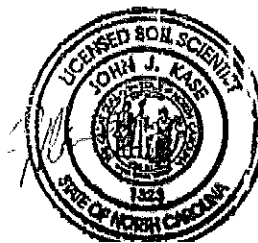
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

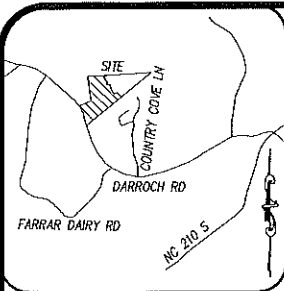
To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,



John Kase  
 NC Licensed Soil Scientist #1323  
 NC Authorized Wastewater Evaluator #10060E  
 NC REHS #1785





### VICINITY MAP (NTS)

#### LEGEND:

EIP - EXISTING IRON PIPE  
 EIB - EXISTING IRON BAR  
 BEIP - BENT IRON PIPE  
 BEIB - BENT IRON BAR  
 CM - CONCRETE MONUMENT  
 NIP - NEW IRON PIPE SET  
 CATV - CABLE TV BOX  
 EB - ELECTRIC BOX  
 TEL - TELEPHONE PEDESTAL  
 PP - POWER POLE  
 OHL - OVERHEAD LINE  
 LP - LIGHT POLE  
 WM - WATER METER  
 WV - WATER VALVE  
 CO - SEWER CLEAN-OUT  
 SW - SIDEWALK  
 PO - PORCH  
 M/T - NOW OR FORMERLY  
 CWRD - COVERED  
 CB - CATCH BASIN  
 EOP - EDGE OF PAVEMENT  
 BOC - BACK OF CURB

#### NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.
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5. THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX J, HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/03/2025.

#### CERTIFICATE OF ACCURACY & MAPPING

I, NICHOLAS M. FRENCH, PLS CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY DONE UNDER MY SUPERVISION, AND THAT THE ERROR OF CLOSURE AS COMPUTED BY CO-ORDINATES IS LESS THAN 1:10,000.

### PRELIMINARY

NICHOLAS M. FRENCH, PLS L-4817 DATE

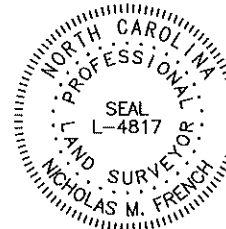
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#### SETBACKS:

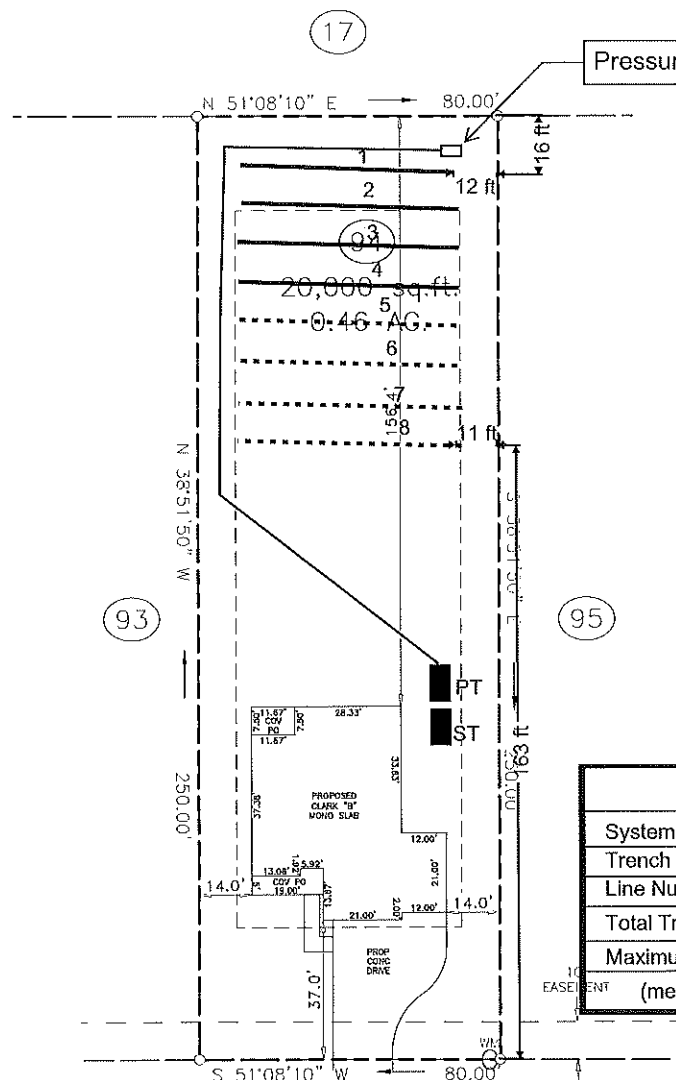
P.B. 2025, PG. 268

FRONT 35'  
 SIDE 10'  
 REAR 25'  
 SIDE STREET 20'



#### IMPERVIOUS SURFACE TABLE

HOUSE	2,389 S.F.
DRIVEWAY	918 S.F.
SIDEWALKS	74 S.F.
<b>TOTAL IMPERVIOUS AREA</b>	<b>3,381 S.F.</b>



#### Legend

— Initial  
 ..... Repair

#### Initial System

System Type: IIIb  
 Trench Type: Accepted 25% Reduction  
 Line Numbers: 1-4  
 Total Trench Length: 225  
 Maximum Trench Depth: 24"  
 (measured on the downhill side)

#### GRAPHIC SCALE



1 INCH = 40 FT.

BLACK DUCK LANE  
 60' PUBLIC R/W

PRELIMINARY

PROJECT: DUCKS LANDING  
 DRAWN BY: VIH  
 SURVEYED BY:  
 FIELD WORK:  
 DWG DATE: 05-16-2026

PLOT PLAN  
 FOR  
 JSJ BUILDERS  
 BLACK DUCK LANE  
 LOT 94 DUCKS LANDING SUBDIVISION  
 ANDERSON CREEK TWP., HARNETT CO., NC  
 P.B. 2025, PG. 268



**ECLS**  
 GLOBAL, INC.  
 U.S. VETERAN-OWNED  
 19 N MCKINLEY ST  
 COATS, NC 27521  
 910.897.3257 ECLS@GLOBALINC.COM  
 910.897.2329 (FAX) CD#C-4175

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Ducks Landing

LOT 94

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: Accepted 25% Reduction

DISTRIBUTION: Pressure Manifold

DISTRIBUTION Pressure Manifold

BENCHMARK: 100.0

LOCATION H20 Meter-11.7

NO. BEDROOMS: 3

LTAR 0.41 gpd/ft^2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE 1000 Gallons

LINE	FLAG COLOR	ELEVATION(FT)	LENGTH(FT)
1	Red	108.6	56
2	White	108.1	56
3	Pink	107.8	56
4	Green	107.4	56
			Total-224
5	Blue	106.8	56
6	Yellow	106.4	56
7	White	105.8	56
8	Red	105.5	56
			Total-224

BY John Kase

DATE 6/2/2025

TYPICAL PROFILE

0-20	LS - GR	VFR/NS/NP
20-36	SCL - SBK	FR/SS/SP
36-48	CL - SBK	FR/SS/P

THERE SHALL BE NO GRADING,  
CUTTING, LOGGING OR OTHER SOIL  
DISTURBANCE IN SEPTIC AREA

HEALTH DEPARTMENT USE ONLY.  
DESIGNS DO NOT GURANTEEE FUNCTIONALITY

# SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.

## RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Ducks Landing Lot 94

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4100 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 660 System Type: Accepted

Number of Taps: 4 Length of Trenches: 220 ft(See Tap Chart for Details)

Depth of Trenches: 24 in Manifold Length: 42 in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 200 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 3.15 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 11.60 ft

Total Head: 16.75 ft Pump to Deliver: 21.92 gals/min at 16.75 ft head

Storage Volume: 94 gals,

Drawdown: 94 gals divided by 20 gals/in = 4.7 inches

Complex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined  
type of pump tank used. A septic tank filter is required.

### TAP CHART

Benchmark	11.7	is = 100.00	H2O Meter				Design Head:	2		
pump tank elev.	8.7	103.00	Pump elev.	98.00			Manifold elev.	109.60		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)
1	Red	3.10	108.60	55	1/2in SCH 80	5.48	90.00	165	0.5455	
2	White	3.60	108.10	55	1/2in SCH 80	5.48	90.00	165	0.5455	
3	Pink	3.90	107.80	55	1/2in SCH 80	5.48	90.00	165	0.5455	
4	Green	4.30	107.40	55	1/2in SCH 80	5.48	90.00	165	0.5455	
			111.70			0	0.00	0	#DIV/0!	
			111.70			0	0.00	0	#DIV/0!	
			111.70			0	0.00	0	#DIV/0!	
			111.70			0	0.00	0	#DIV/0!	
			111.70			0	0.00	0	#DIV/0!	
			111.70			0	0.00	0	#DIV/0!	

Total Feet = 220 gal/min = 21.92  
Feet Required = 220 Velocity = 2.10

LTAR = 0.4100  
(ltar + 5%) 0.4305  
(ltar w/25% red) 0.5467  
(ltar + 5%) 0.5740

at # of Panels (PPBPS)

of Dose Vol. 66 Des. Flow 360

se Volume 94 Pump Run= 16.42

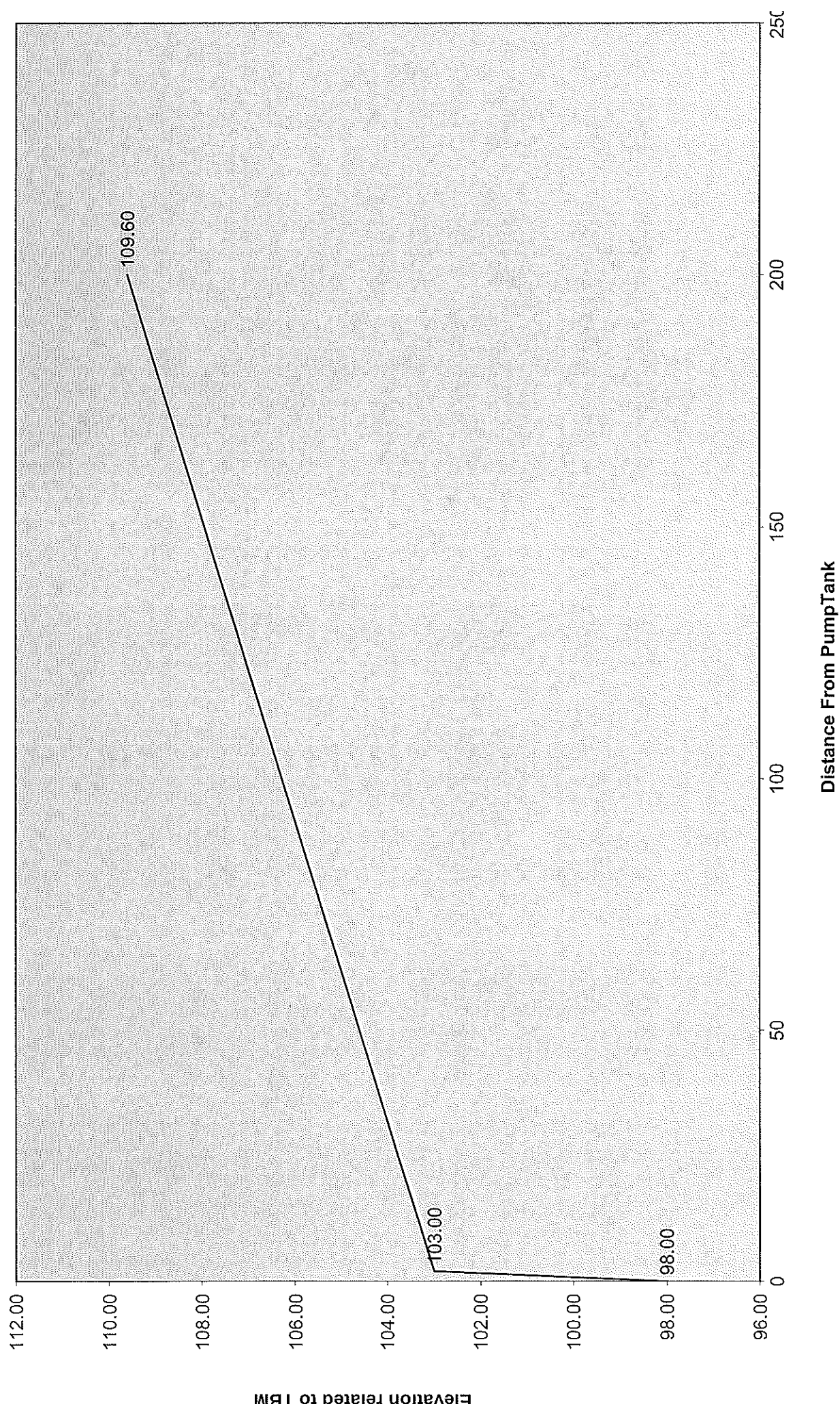
se Pump Time 4.31 Tank Gal/IN 20

drawdown in Inches 4.7 Elev. Head 11.60

Comments:

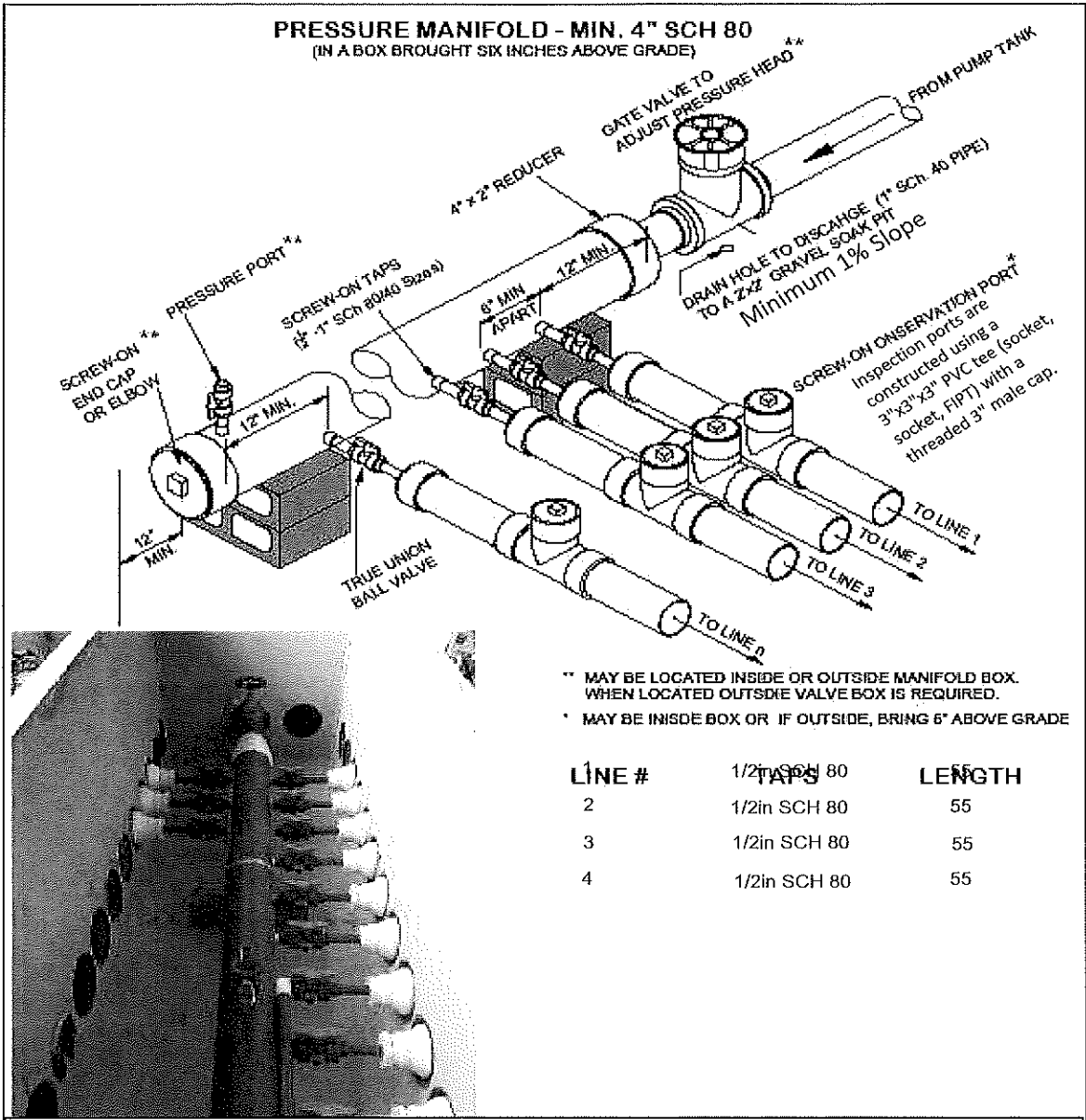


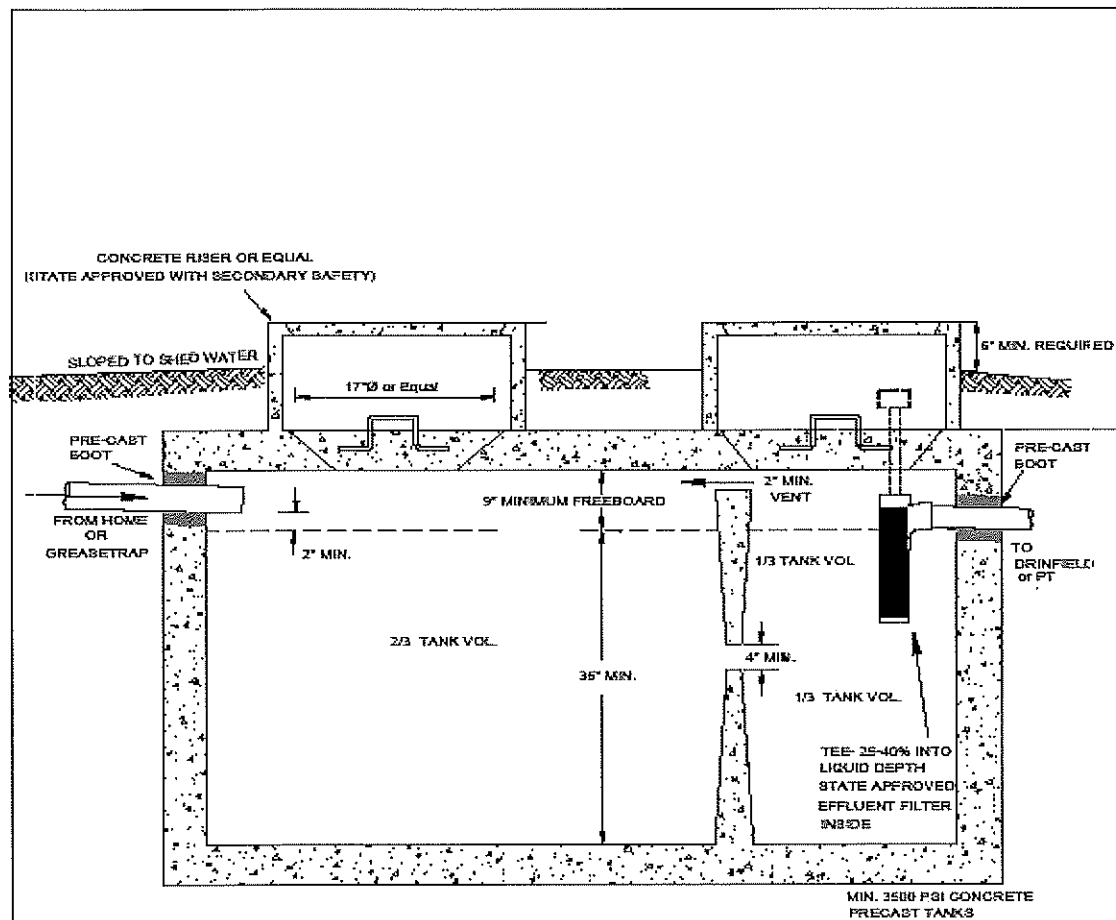
Hydraulic Profile





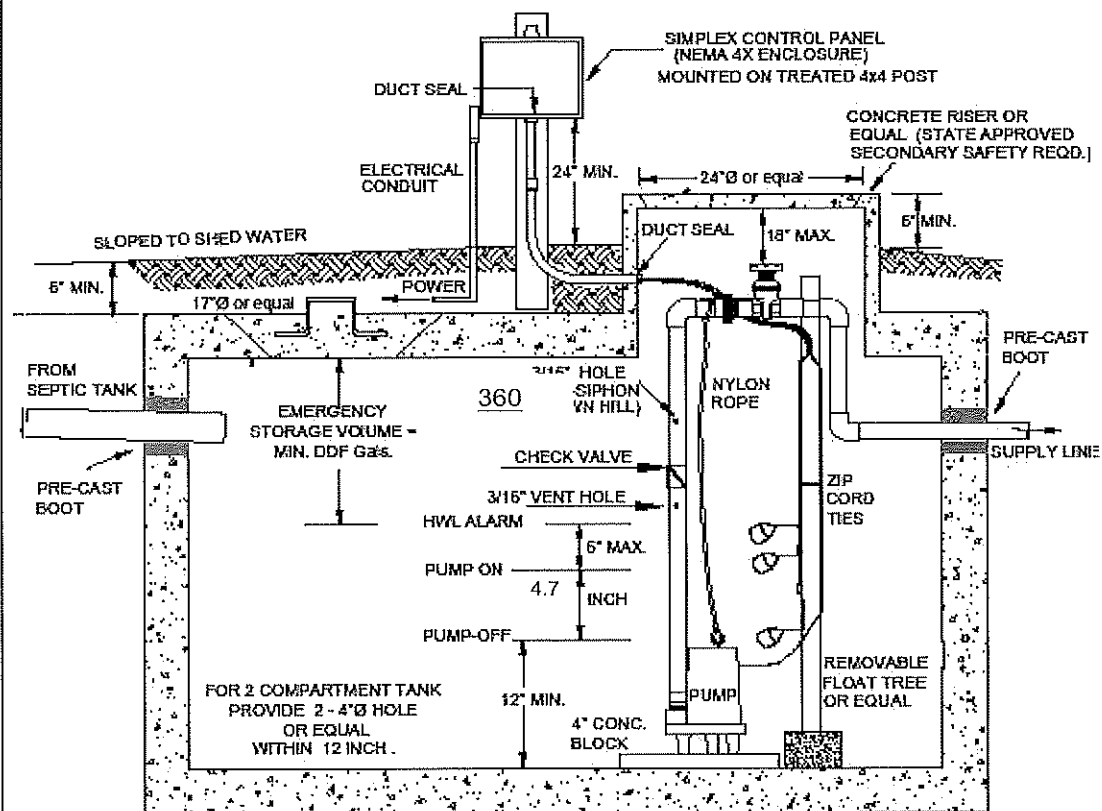
	Line 1	Line 2	Line 3	Line 4	Line 5	Line 6	Line 7	Line 8	Line 9	Line 10
Taps	1/2in SCH 80	1/2in SCH 80	1/2in SCH 80	1/2in SCH 80						
Flow	5.48	5.48	5.48	5.48	0	0	0	0	0	0





1000 Gallon (Min.)

STATE APPROVED SEPTIC TANK WITH A STB NUMBER  
(TRAFFIC RATED TANK REQUIRED FOR > 3' BURIAL)



PRECAST CONCRETE TANK  
(3500 PSI Min.)

1000 GALLON (Min.)

STATE APPROVED PUMP TANK WITH A PT NUMBER  
(TRAFFIC RATED TANK REQUIRED FOR > 3' BURIAL)

## PUMP CURVE AND SPECIFICATIONS

### Pump and Control Panel Specification Required:

Pump:

Pump to be UL or equal listed

TDH and Pumping rate calcs & curve

Dose volume

3 floats system in a float line or bracket of non-corrosive material

Highwater alarm within 6" from "on" float

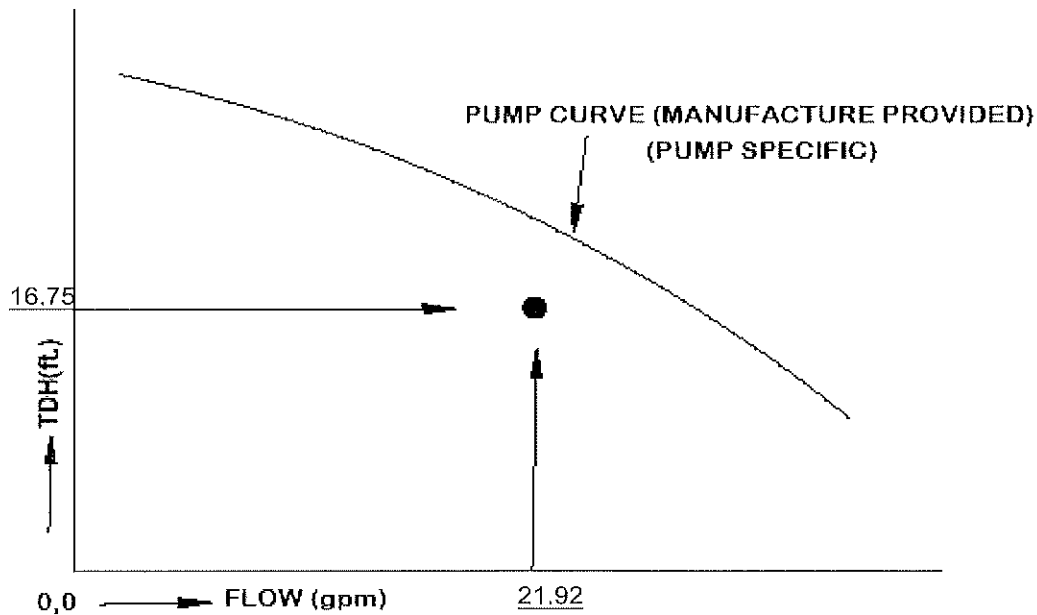
Off float at min. 12" from bottom of tank or to submerge pump

(Manufacture may certify/specify pumps suitability taller than 12" if unsubmerged)

Supply Line Profile when variation in ground profile of more than 5'

Effluent Pump should handle min. 1/2" solids

Gate valve, true union disconnect and connection inside tank reachable within 18" from riser top



### Control Panel Specifications:

Installed within 2 ft. and min. 18" above final grade to bottom of panel box

HOA switch provided

NEMA 4X box

Cycle counter & elapsed time meter

Alarm (audible/visible)

Separate circuits for alarm and pumps

High voltage protection

Pump Pull Rope/chain (non-corrosive)

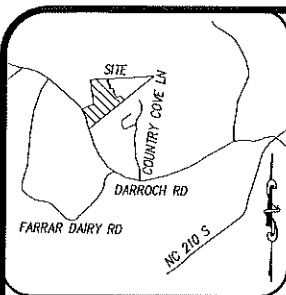
All duct sealed, no splices or junction boxes inside tanks

3/16th inch hole between Check valve (in vertical pipe) and pump

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.			SOIL/SITE EVALUATION SHEET				Sheet #:		1		
OWNER/APP. NAME:		JSJ Builders Inc.			SUBDIV./LOT#		Ducks Landing Lot 94				
LOCATION OF SITE:		263 Black Duck Lane, Lillington									
COUNTY:		Harnett		PROPERTY ID #:		#010527001249		DATE EVALUATED:		6/2/2025	
PROPOSED FACILITY:		SFR		PROPOSED DESIGN FLOW (.0400):		360 GPD		PROPERTY SIZE		0.46 ac	
WATER SUPPLY:		Public		WATER SUPPLY SETBACK:		10'					
TYPE OF WASTEWATER:			Domestic			EVALUATION METHOD:			Auger		
P R O F I L E  #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR		
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ			
1	L	0-20	LS - GR	VFR/NS/NP	48	NOT OBSER VED	NOT OBSE RVED	S - 0.45			
		20-36	SCL-SBK	FRIABLE/SS/SP							
	2%	36-42	CL - SBK	FRIABLE/S/P							
	.0502(d) SLOPE CORRECTION	42-48	SL - GR	VFR/NS/NP							
	0.4"										
2	L	0-24	SL-GR	VFR/NS/NP	48	N.O.	N.O.	S - 0.4			
		24-44	CL - SBK	FR/SS/P							
	3%	44	CL - SBK	FRIABLE/S/P					10YR7/2		
	.0502(d) SLOPE CORRECTION										
	1"										
3	L	0-36	LS - GR	VFR/NS/NP	48	N.O.	N.O.	S-0.5			
		36-48	SCL - SBK	FRIABLE/SS/SP							
	3%										
	.0502(d) SLOPE CORRECTION										
	1"										
4	L	0-20	LS-GR	VFR/NS/NP	48	N.O.	N.O.	S-0.45			
		20-30	SCL - SBK	FR/SS/SP							
	3%	30-48	CL - SBK	FRIABLE/S/P							
	.0502(d) SLOPE CORRECTION										
	1"										
DESCRIPTION:		INITIAL SYSTEM		REPAIR SYSTEM		SITE CLASSIFICATION (.0509):		Suitable			
Available Space		Suitable		Suitable		EVALUATED BY:		John Kase			
System Type(s):		25% Reduction		25% Reduction		OTHER(S) PRESENT:					
Site LTAR:		0.410		0.410							
Maximum Trench		24"		24"							
Saprolite System:		No		No							
Comments:		Trench bottoms depth measure on downslope side of trench..									







### VICINITY MAP (NTS)

#### LEGEND:

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 EIB - EXISTING IRON BAR  
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#### NOTES:

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**PRELIMINARY**

NICHOLAS M. FRENCH, PLS L-4817

DATE

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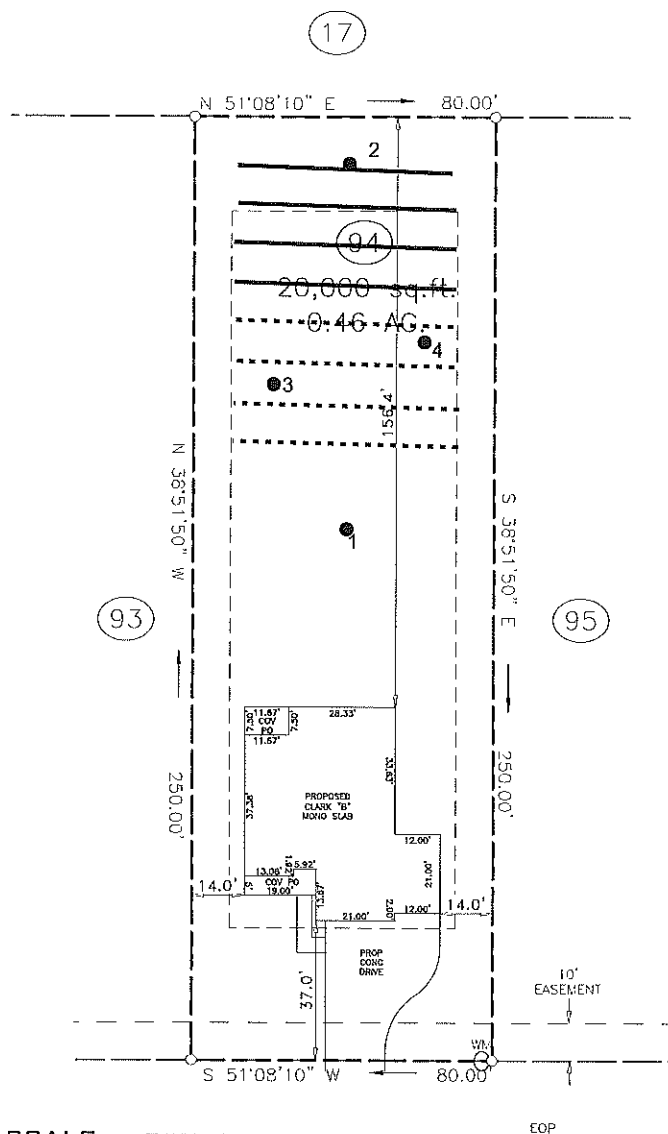
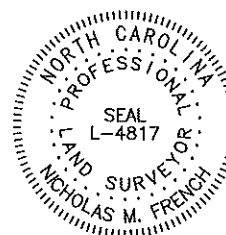
#### SETBACKS:

P.B. 2025, PG. 268

FRONT 35'  
 SIDE 10'  
 REAR 25'  
 SIDE STREET 20'

#### IMPERVIOUS SURFACE TABLE

HOUSE	2,389 S.F.
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TOTAL IMPERVIOUS AREA	3,381 S.F.



Legend	
—	Initial
----	Repair

#### GRAPHIC SCALE



1 INCH = 40 FT.

BLACK DUCK LANE  
60' PUBLIC R/W

**PRELIMINARY**

**ECLS**

PROJECT: DUCKS LANDING  
 DRAWN BY: VIH  
 SURVEYED BY:  
 FIELD WORK:  
 DWS DATE: 05-16-2026

#### PLOT PLAN

FOR

**JSJ BUILDERS**

BLACK DUCK LANE  
 LOT 94 DUCKS LANDING SUBDIVISION  
 ANDERSON CREEK TWP., HARNETT CO., NC  
 P.B. 2025, PG. 268



**ECLS**  
 GLOBAL, INC.  
 U.S. VETERAN-OWNED  
 19 N MCKINLEY ST  
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