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

__X__ New ____ Expansion ____ Repair ____ Relocation ____ Relocation of Repair Area

Owner or Legal Representative Information:

Name: DRB Group

Mailing address: 1101 Slater Road, Suite 300 City: Durham State: NC Zip: 27703

Phone: 919-505-0035, ext. 4006 Email: ksoffe@drbgroup.com

Authorized Onsite Wastewater Evaluator Information:

Name: Jason Hall Certification #: AOWE #10004E

Mailing address: 1900 South Main Street, Suite 110 City: Wake Forest State: NC Zip: 27587

Phone: 919-625-5948 Email: jhall@centralcarolinasoil.com

NC ONSITE WASTEWATER EVALUATOR Certificate Number 10004E

Site Location Information:

Site address: 345 Adams Pointe Court, Angier, NC

Tax parcel identification number or subdivision lot, block number of property: 0663-51-7764

Honeycutt Hills, lot 22 County: Harnett

System Information:

Wastewater System Type: IIIbe, PM to PPBPS, Horizontal both fields

Daily Design Flow: 360 W/PE Flow Red.

Saprolite System: ____Yes __X__No Subsurface Operator Required: __X__ Yes ____No

Water Supply Type: ____ Private Well __X__ Public Water Supply ____ Spring ____ Other: ____

Facility Type:

__X__ Residential __4__ # Bedrooms __<8__ Maximum # of Occupants

____Business Type of Business and Basis for Flow: ____

____Public Assembly Type of Public Assembly and Basis for Flow: ____

Required Attachments:

__X__ Plat or Site Plan

__X__ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the __28__ day of __July__, __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 __28__ day of __July__, __2030__.

Signature of Authorized Onsite Wastewater Evaluator: J. Hall

Signature of Owner or Legal Representative: Clayton Moss

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: ____

Design Daily Flow: 360 GPD Wastewater Strength: ☑domestic ☐high strength ☐industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☑Yes ☐No

(if yes, please provide engineering documentation)

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Pump Tank Size (if applicable): 1000 gallons

Pump Requirements: 23 ft. TDH vs. 28 GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☐ Serial ☐D-Box ☑Pressure Manifold(s) ☐LPP ☐Other: _____

Total Trench/Bed Length: 165 & 162 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 3 inches LTAR .3 gpd/ft²

Additional Soil Cover: n/a inches

Slope Corrected Maximum Trench/Bed Depth‡: 14 inches ‡ ***Measured on the downhill side of the trench***

System Type:

☐ Accepted Status System (EZ-Flow or Chambers)
☐ Conventional (Gravel)
☐ Accepted Status System (EZ-Flow)
☐ Accepted Status System (Chambers)
☐ Innovative Product (Low Profile Chambers)
☐ 12" Large Diameter Pipe
☑ PPBPS (T&J Panel Block) (Horizontal)
☐ 10" Large Diameter Pipe
☐ PPBPS (T&J Panel Block) (Vertical)
☐ Subsurface Drip (TS-II Pre-treatment)

Notes:

Fence off septic field during build. No water softener allowed on house, which can damage septic field.

Follow all installation procedures from T&J panel block manual. Install both fields and two manifolds.

Need Certified operator for system to switch manifolds every 6 months. Install interceptor drain, <24" as shown on layout map.

Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, 27588
919-569-6704

July 14, 2025
Project #3806-Lot 22

DRB Homes
Kyle Soffe
1101 Slater Road
Suite 300
Durham, NC 27703

RE: Preliminary soil/site evaluation for Authorized On-Site Wastewater Evaluator Permit (AOWE) in Honeycutt Hills lot 22 (Harnett County)

Dear Mr. Soffe:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation at lot 22 in Honeycutt Hills SD for an AOWE submittal. The soil/site evaluation was performed using hand auger borings and pits during saturated soil conditions based on the criteria found in the State Subsurface Rules, 15A NCAC 18E "Wastewater Treatment and Dispersal Systems".

The site is proposed to have a new 4-bedroom house constructed on-stie.

The proposed system for the house is a Pressure Manifold Distribution system using lines 1-3 totaling 165 feet of horizontal PPBPS. The repair field is a Pressure Manifold Distribution using lines 4-6 totaling 162 feet of horizontal PPBPS. The septic and pump tanks for the house should be minimum 1000 gallons with risers. Both system and repair fields must be installed to achieve the additional 25% reduction in area allow by T&J Panel Block.

Based on the findings during the field evaluation, the area on the attached map has at least 29 inches (initial) and 29 inches (repair) of suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.3 gal/day/ft^2 with a maximum depth of 14 inches for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.3 gal/day/ft^2 with a maximum

depth of 14 inches for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic systems for the lot should be installed during dry soil conditions. The septic systems should be installed on contour while maintaining all required setbacks.

Setbacks:

- Septic and Pump Tanks
  - 10' minimum from property lines
  - 5' minimum from house (see septic design)
  - No mid seam pump tanks or leak testing is required
- Septic Lines
  - 10' minimum from property lines
  - 5' minimum from house (see septic design)
- Manifold's and D-Box's
  - 10' from property lines
- Supply Lines
  - 5'minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, not cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

Septic System:

- Pressure manifold System, PPBPS, horizontal for Initial & repair (see septic layout)
- 360 gal/day flow rate (4-bedroom per PE flow reduction)
- 1000 gallon septic & pump tanks with risers
- 14" maximum trench depth with required 8" of clean cover (seed and straw)
- Must install both system and repair fields to achieve an additional 25% reduction in area.
- Keep all utility lines greater than 5' from all septic areas.
- Fence off septic area, no equipment or materials on site
- 0.3 LTAR
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions
- Maintain natural contours when clearing the lot
- Need notification of system install 48 hours beforehand

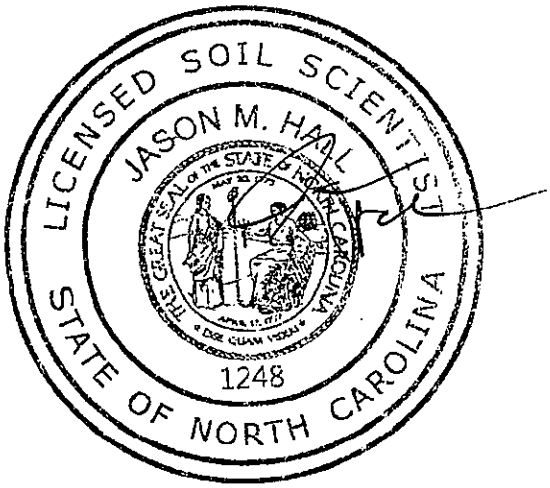
This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and design for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,

Jason Hall
NC Licensed Soil Scientist #1248

AOWE #10004



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587

PROPERTY ID #: ____

COUNTY: Wake

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

(Complete all fields in full)

OWNER: DRB DATE EVALUATED: 7-24-24

ADDRESS: ____

PROPOSED FACILITY: 4-Bedroom with FR PROPOSED DESIGN FLOW (.0400): 360 gal/day FR PROPERTY SIZE: ____

LOCATION OF SITE: 345 Adams Pointe Court, Angier, NC 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

PROFILE #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY .0503 TEXTURE/ STRUCTURE	SOIL MORPHOLOGY .0503 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .0504 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .0505 SOIL DEPTH	OTHER PROFILE FACTORS .0506 SAPRO CLASS	OTHER PROFILE FACTORS .0507 RESTR HORIZON	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
1	L-5	AE, 0-17	SL, Gr	VFR, NS, NP						1.88"
		Bt, 17-31	Clay, SBK	FI, SS, SP, SEXP		S-34			S.3	
		Bt2, 31+	Clay, SBK	FI, SS, SP, SEXP	7.5 YR 6/2, 10%	UN				
2	L-8	AE,0-9	SL, Gr	VFR, NS, NP						
		Bt, 9-15	Clay, SBK	FI, SS, SP, SEXP						
		Bt2, 15+	Clay, Mass	FI, S, P, SEXP	7.5 YR 6/2, 30%	UN				
3	L-8	A, 0-5	SL, Gr	VFR, NS, NP						3"
		Bt, 5-31	Clay, SBK	FI, SS, SP, SEXP		S			S.3	
		BC, 31-42	SCL, SBK	FI, SS, SP, SEXP		S-42			S.325	
		BC2, 32+	SCL, SBK	FI, S, SP, SEXP	7.5 YR 6/2 10%	UN				
4	L-8	A, 0-5	SL, Gr	VFR, NS, NP						3"
		Bt, 5-13	CL, SBK	FR, SS, SP, SEXP						
		Bt, 13-29	Clay, SBK	FR SS, SP, SEXP		S-29			S.325	
		BC, 29+	CL, Wk SBK	FI, S, SP, SEXP	7.5 YR 6/2 10%	uN				
5	L-8	A, 0-6	SL, Gr	VFR, NS NP						3"
		Bt, 6-29	Clay, SBK	FI, SS, SP, SEXP		S-29			S.3	
		Bt2, 29+	Clay, SBK	FI, SS, SP, SEXP	7.5 YR 6/2 10%	UN				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	yes	yes
System Type(s)	PPBPS	PPBPS
Site LTAR	.3	.3
Maximum Trench Depth	14	14

SITE CLASSIFICATION (.0509): suitable

EVALUATED BY: JH

OTHER(S) PRESENT: ____

Comments: Must install both system and repair horizontal PPBPS to achieve the additional 25% reduction in area.

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
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		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
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 saprolite 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 saprolite shall be by pits or auger borings.

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)

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: _____

DATE OF EVALUATION: _____

COUNTY: _____

PROFILE #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
			.0503 TEXTURE/ STRUCTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZON		
Pit 1	L-8	A, 0-5	SL, Gr	VFR, NS, NP						3"
		Bt, 5-29	Clay, SBK	FI, SS, SP, SEXP		S-29			S.3	
		29+	Clay, ,SBK	FI, S, SP, SEXP	7.5 YR 6/2, 10%	UN				
Pit 2	L-8	AE, 0-12	SL, Gr	VFR, NS, NP						3"
		Bt, 12-30	CL, SBK	FR, SS, SP, SEXP		S-30			S.325	
		Bt2, 30+	CL, SBK	FI, SS, SP, SEXP	7.5 YR 6/2, 10%	UN				

COMMENTS: _____

Honeycutt Hills Lot 22
T&J Panel Block, Tap Chart (Initial System)

Bench Mark:		is = 100.00	Location of BM:					**Elevation Head:**	17.60			
Pump tank elev.		13	87.00	**Pump elev.**	81.60			**Manifold elevation:**	99.20		**Spacing of**	**Feet of**
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**	**# of Panels**	**Panels (in)**	**1.5in PVC**
1	Purple	1.80	98.20	45	1/2in SCH 40	7.11	93.72	135	0.6943	10	7.3	36
2	Yellow	2.70	97.30	60	3/4in SCH 80	10.1	133.14	180	0.7397	14	5.1	52
3	Blue	3.60	96.40	60	3/4in SCH 80	10.1	133.14	180	0.7397	14	5.1	52

						Total Number of Panels:	38
	total	**feet =**	165	**gal/min =**	27.31	**T&J Panel Block Orientation:**	**Horizontal**
						LTAR =	0.3250
% of Dose Volume	0		**Des. Flow**	360		**LTAR + %5**	0.3413
Dose Volume	136.80		**Pump Run=**	13.18		(ltar W/ add. 25%)	0.9286
Dose Pump Time	5.01		**Tank Gal/IN**	21		(ltar + 5%)	0.9750
Drawdown in Inches	6.51						

Backfill Sand Needed: 28.1 tons
backfill sand needed + 5%: 29.51 tons

Total Footage of 1.5in PVC: 140

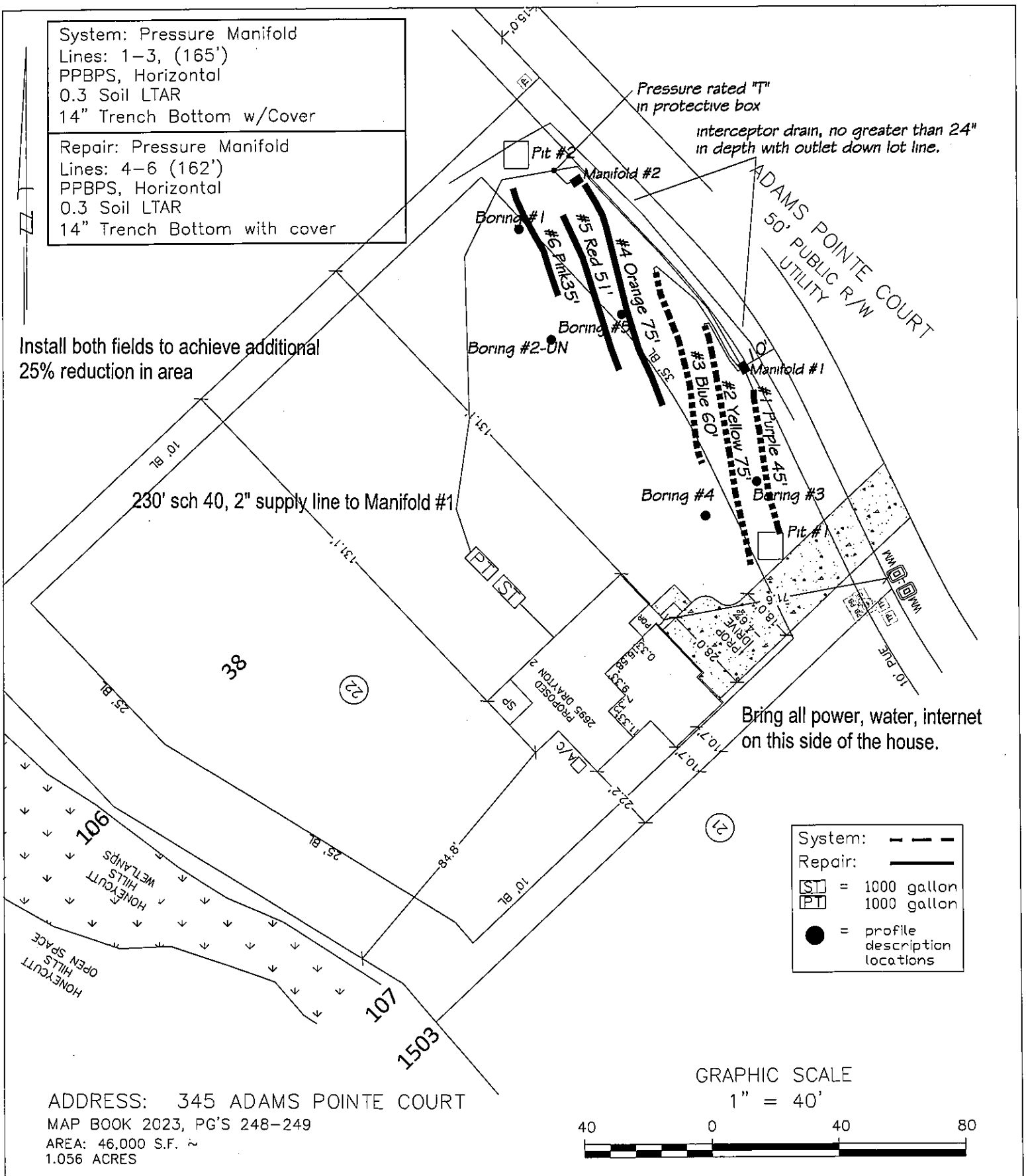
Honeycutt Hills Lot 22
T&J Panel Block, Tap Chart (Repair System)

Bench Mark:		is = 100.00	Location of BM:					**Elevation Head:**	14.80			
Pump tank elev.		13	87.00	**Pump elev.**	81.60			**Manifold elevation:**	96.40		**Spacing of**	**Feet of**
line	**color**	**rod read**	**Elevation**	**length**	**hole size**	**flow/tap**	**gal/day**	**trench area**	**LINE LTAR**	**# of Panels**	**Panels (in)**	**1.5in PVC**
4	Orange	4.60	95.40	75	3/4in SCH 80	10.1	160.25	225	0.7122	17	6.6	64
5	Red	5.40	94.60	51	1/2in SCH 40	7.11	112.81	153	0.7373	12	4.6	44
6	Pink	6.40	93.60	36	1/2in SCH 80	5.48	86.95	108	0.8051	8	7.1	28

						Total Number of Panels:	37
	total	**feet =**	162	**gal/min =**	22.69	**T&J Panel Block Orientation:**	**Horizontal**
						LTAR =	0.3000
% of Dose Volume	0		**Des. Flow**	360		**LTAR + %5**	0.3150
Dose Volume	133.20		**Pump Run=**	15.87		(ltar W/ add. 25%)	0.8571
Dose Pump Time	5.87		**Tank Gal/IN**	21		(ltar W/ INOV + 5%)	0.9000
Drawdown in Inches	6.34						

Backfill Sand Needed: 27.6 tons
backfill sand needed + 5%: 28.98 tons

Total Footage of 1.5in PVC: 136

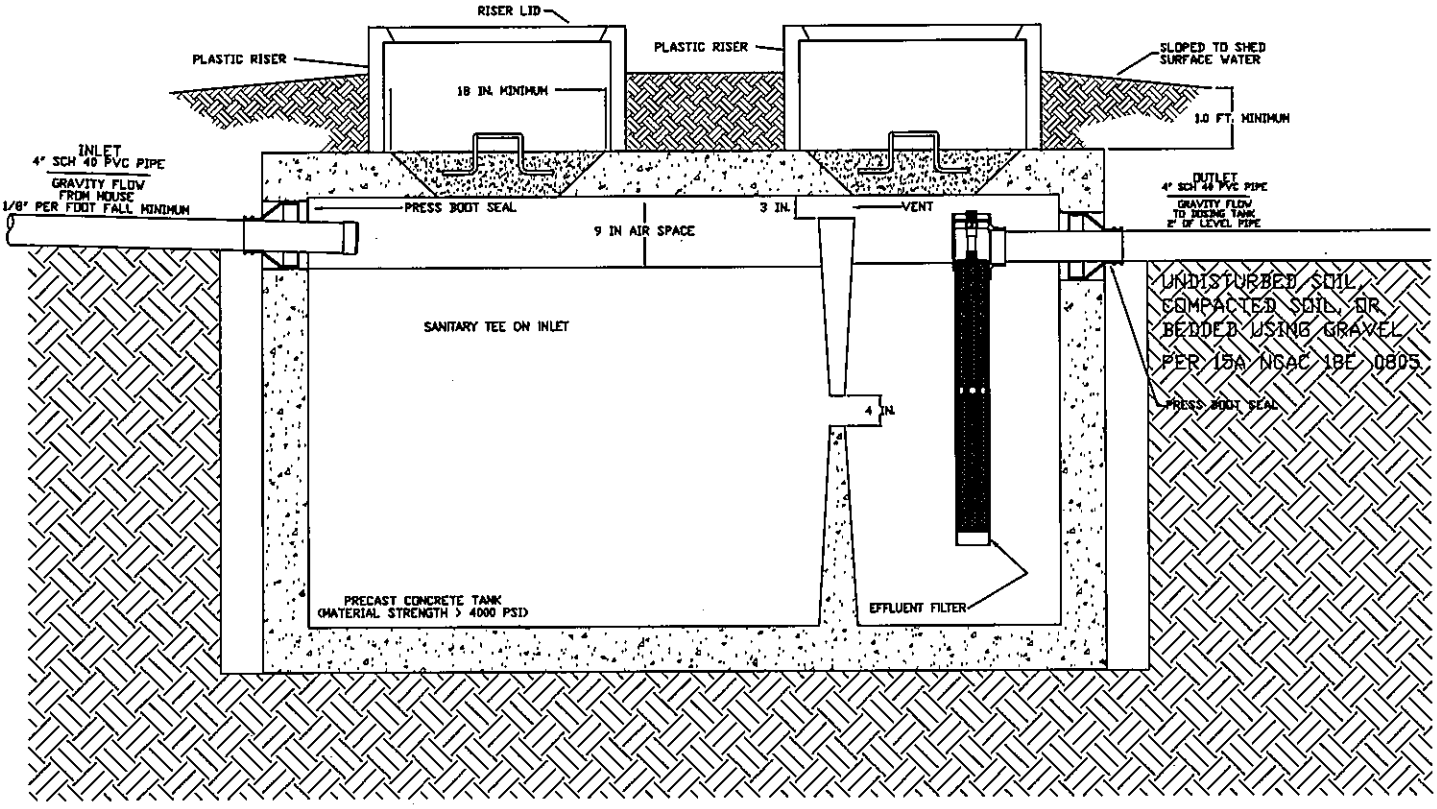


ADDRESS: 345 ADAMS POINTE COURT
MAP BOOK 2023, PG'S 248–249
AREA: 46,000 S.F. ±
1.056 ACRES

Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569–6704 Fax (919)569–6703

4-Bedroom Septic Layout
PE flow reduction to 360 gal/day
Lot 22 Honeycutt Hills Subdivision
Harnett County, North Carolina

Job#:	3806
Drawn By:	JH
Date:	07/28/25
Revision:	



1000 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE

NOTES:

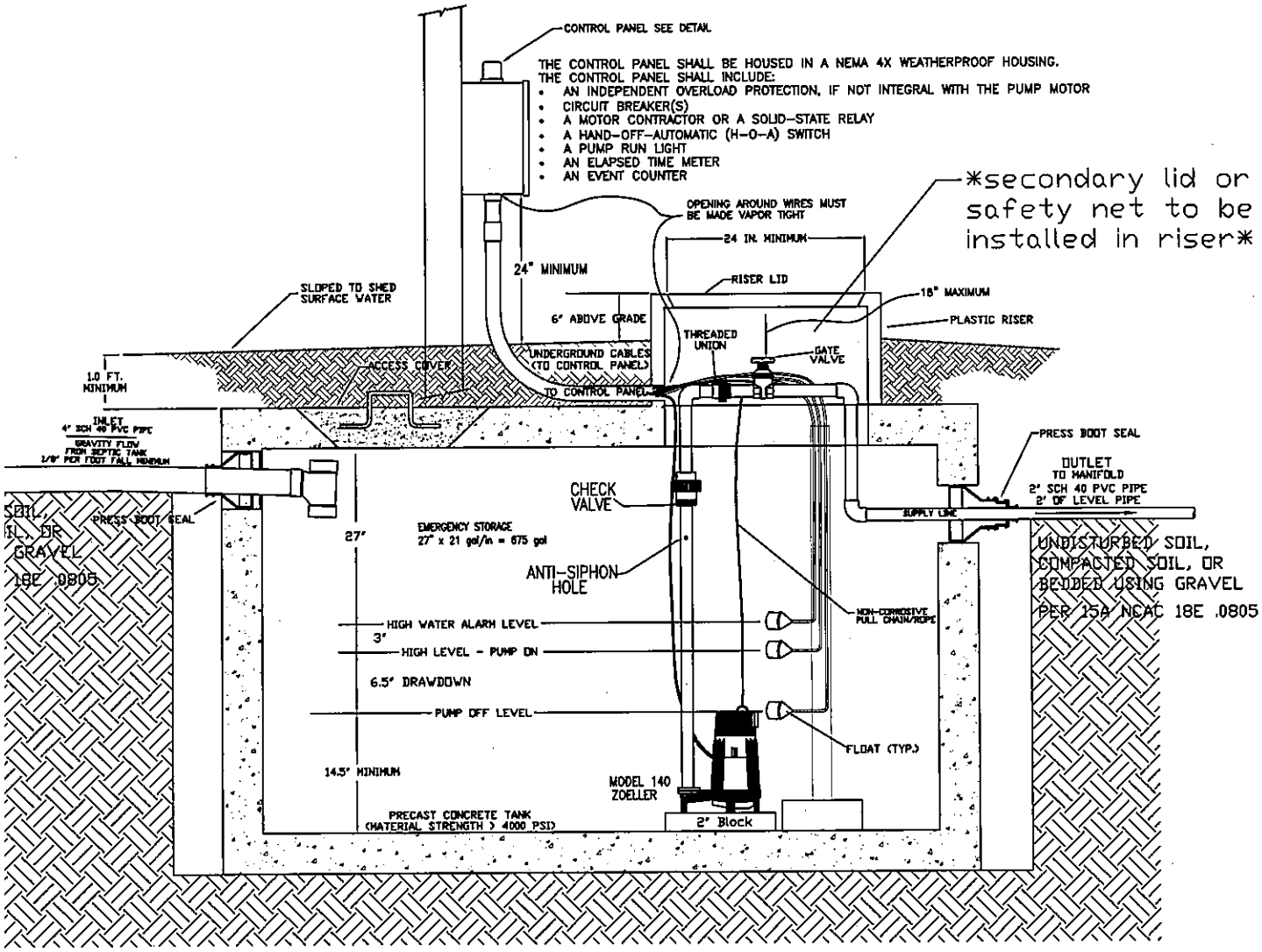
1. ALL TANKS SHALL BE LEAK TESTED (IN OCCURANCE TO RULE 15A NCAC 18E .0805) WHEN INSTALLED UNDER THE FOLLOWING CONDITIONS
   (A) when a Soil Wetness Condition (SWC) is present within four feet of the elevation of the top of a mid-seam pump tank;
   (B) with advanced pretreatment when required in the RWTS or PIA Approval;
   (C) when required in the approved plans and specifications for a wastewater system designed by a PE;
   (D) when the tank is constructed in place; or
   (E) as required by the authorized agent based upon site or system specific conditions, such as misaligned seams, exposed reinforcement, or damage observed that may have occurred during transport or installation.
2. ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
3. INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
4. ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
5. TANK DIMENSIONS VARY BY MANUFACTURER.
6. DRAWDOWN WILL VARY WITH TANK DIMENSIONS.
7. NO ELECTRICAL SPLICES SHALL BE MADE INSIDE THE PUMP TANK.

ALL tank openings (2 for septic tank) shall have a secondary lid or safety net installed

Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

Septic Tank Details

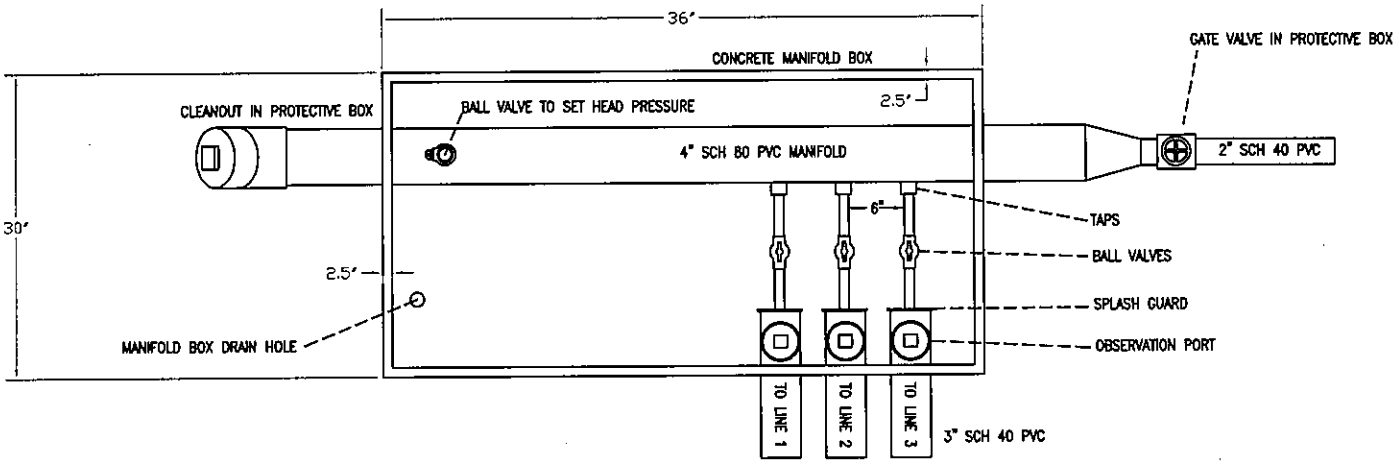
Job#:
Drawn By: MS
Date:



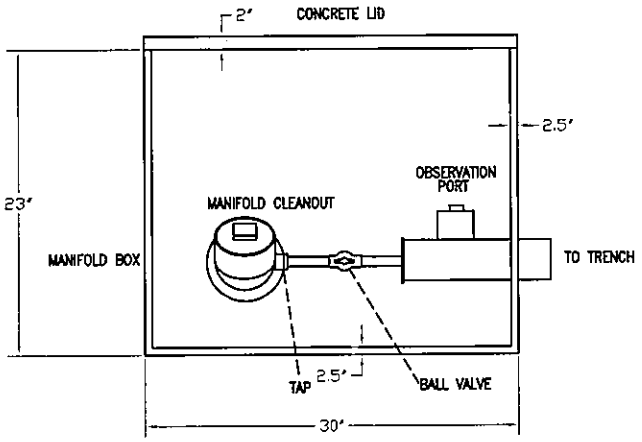
1000 GAL PUMP TANK SCHEMATIC
NOT TO SCALE

ALL tank openings (2 for septic tank, 1 for pump tank) shall have a secondary lid or safety net installed

PRESSURE MANIFOLD #1 DETAILS
TOP VIEW

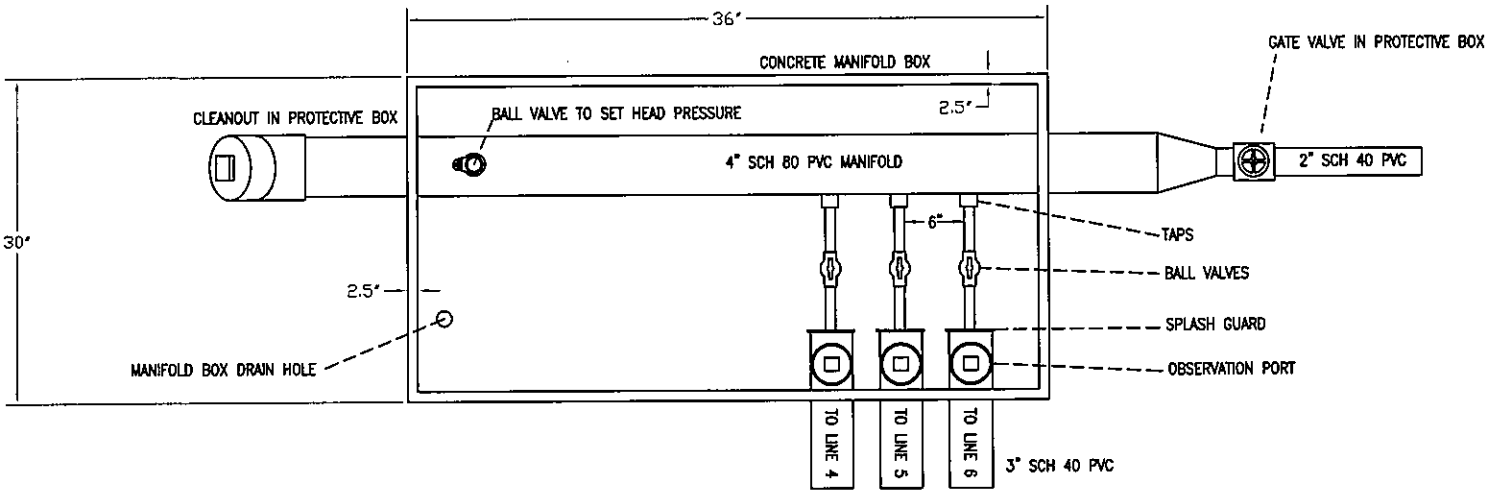


PRESSURE MANIFOLD DETAILS
END VIEW

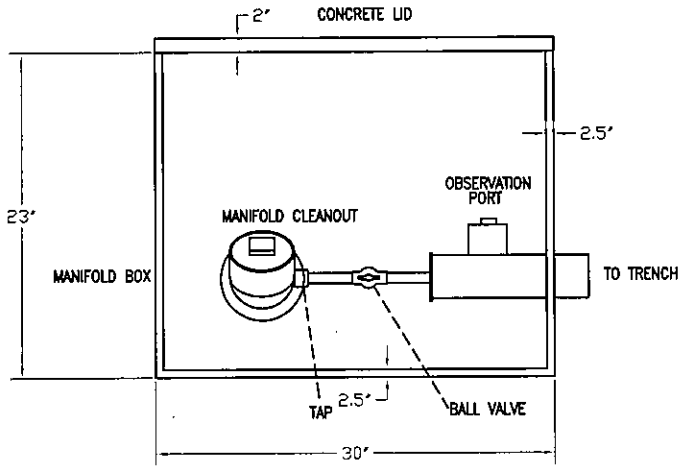


TAP SCHEDULE	
LINE #	TAP
1	1/2 " SCH 40
2	3/4" SCH 80
3	3/4 " SCH 40

PRESSURE MANIFOLD #2 DETAILS
TOP VIEW



PRESSURE MANIFOLD DETAILS
END VIEW



TAP SCHEDULE	
LINE #	TAP
4	3/4 " SCH 80
5	1/2" SCH 40
6	1/2 " SCH80

MODEL 112 Control Panel

Single phase, simplex motor contactor control.

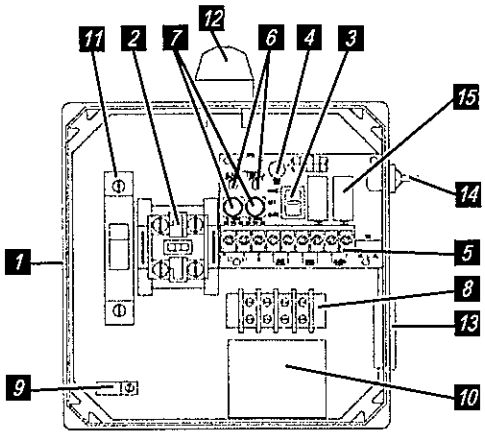
The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.

PANEL COMPONENTS

1. **Enclosure** measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).

   * Options selected may increase enclosure size and change component layout.

2. **Magnetic Motor Contactor** controls pump by switching electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm and Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Input Power and Pump Connection Terminal Block**
9. **Ground Lug**
10. **Terminal Block Installation Label**
11. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.



Model Shown 1121W914X

STANDARD ALARM PACKAGE

12. **Red Alarm Beacon** provides 360° visual check of alarm condition. **Note:** NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating). **Note:** NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.
14. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition has been cleared.
15. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

c UL us LISTED

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

SJE Rhombus® CONTROLS

PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com

112	1	W	1	2	4	H	3A, 8A, 8C, 15A

MODEL 112

ALARM PACKAGE
- [ ] 0 = select options or no alarm package
- [x] 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn & float)

ENCLOSURE RATING
- [ ] I = Indoor, NEMA 1 (metal)
- [x] W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE
- [x] 1 = magnetic motor contactor 120/208/240V
- [ ] 9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS
- [ ] 0 = 0-7 FLA
- [ ] 1 = 7-15 FLA
- [x] 2 = 15-20 FLA
- [ ] 3 = 20-30 FLA

PUMP DISCONNECTS
- [ ] 0 = no pump disconnect
- [ ] 1 = pull-out with safety deadfront in a 10"x8" enclosure
- [x] 4 = circuit breaker 120V (select STARTING DEVICE option 9 above)
  120/208/240V (select STARTING DEVICE option 1 above)

FLOAT SWITCH APPLICATION
- [x] H or L = pump down or pump up
- [ ] X = no floats
  WITH alarm package
  WITHOUT alarm package

OPTIONS *Listed below*

★ ENCLOSURE UPSIZE - If you selected 3 or more of the ★ options, or one ★★ option, **a one-time enclosure upsize fee would apply.**

If additional features are required, call the factory for a quote on either a SJE-Rhombus Pro-Line or Engineered Custom control panel.

	CODE	DESCRIPTION
[ ]	1A	Red beacon only / no audio *(must select 1E if floats included)*
[ ]	1C	Horn only / no visual *(must select 1E if floats included)*
[ ]	1E	Alarm float
[x]	3A	Alarm flasher
[ ]	★ 3B	Manual alarm reset
[ ]	★ 4A	Low level cutout *(select option 4D if floats included)*
[ ]	★ 4B	Red low-level indicator & alarm *(must select 4A also)*
[ ]	4D	Low-level float
[ ]	★ 5A	Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)
[ ]	★★5E	Seal failure circuit & red indicator (2 wire)
[ ]	6A	Auxiliary alarm contact, form C type
[x]	★ 8A	Elapsed time meter
[x]	★ 8C	Event (cycle) counter
[ ]	★★9_A	Pump overload specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.
	★★[ ]	0-25 FLA
	★★[ ]	25-30 FLA
[ ]	10E	Lockable latch - NEMA 4X
[ ]	10E	Lockable latch - NEMA 1
[ ]	★10F	Lightning arrester
[ ]	★10K	Anti-condensation heater

	CODE	DESCRIPTION
[ ]	11C	NEMA 1 alarm panel *must select option 6A*
[ ]	11D	NEMA 4X alarm panel *must select option 6A*
[ ]	★★14B	Main disconnect (rotary style, mounted through door) non-fused
★★[ ]		0-20 FLA (total of both pumps)
★★[ ]		20-30 FLA (total of both pumps)
[x]	15A	Control / alarm circuit breaker *Does not include the circuit board as in standard.*
[ ]	16A	10' cord in lieu of 20' *(per float)*
[ ]	16B	15' cord in lieu of 20' *(per float)*
[ ]	16C	30' cord in lieu of 20' *(per float)*
[ ]	16D	40' cord in lieu of 20' *(per float)*
[ ]	17A	SJE SignalMaster® / mounting strap ● *(per float)*
[ ]	17B	SJE SignalMaster® / externally weighted ● *(per float)*
[ ]	17C	Sensor Float® / internally weighted ▲ *(per float)*
[ ]	17D	Sensor Float® / externally weighted ▲ *(per float)*
[ ]	17E	Sensor Float® Mini / pipe clamp ▲ *(per float)*
[ ]	17F	Sensor Float® Mini / externally weighted ▲ *(per float)*
[ ]	19T	TOA (Test/Off/Automatic) switch and pump run light through door mounted
[ ]	19U	HOA (Hand/Off/Automatic) switch and pump run light through door mounted
[ ]	19X	Door mounted pump run indicator
[ ]	21A	SJE PumpMaster® in lieu of on/off switches ●
[ ]	21B	SJE PumpMaster® Plus in lieu of on/off switches ●
[ ]	21C	Super Single® in lieu of on/off switches ▲
[ ]	21D	Double Float® in lieu of on/off switches ▲

● Mechanically-activated ▲ Mercury-activated

SAMPLE

MODEL	112	1	W	9	1	4	H	3A 8A

Alarm Package
Enclosure Rating
Starting Device
Pump Full Load Amps
Pump Disconnect
Float Switch Application
Options: Flasher, Elapsed Time Meter

POLYLOK™ Inc.
Innovations in Precast, Drainage & Wastewater Products
Zabel® A Division of Polylok Inc.

PL-68 Effluent Filter

PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

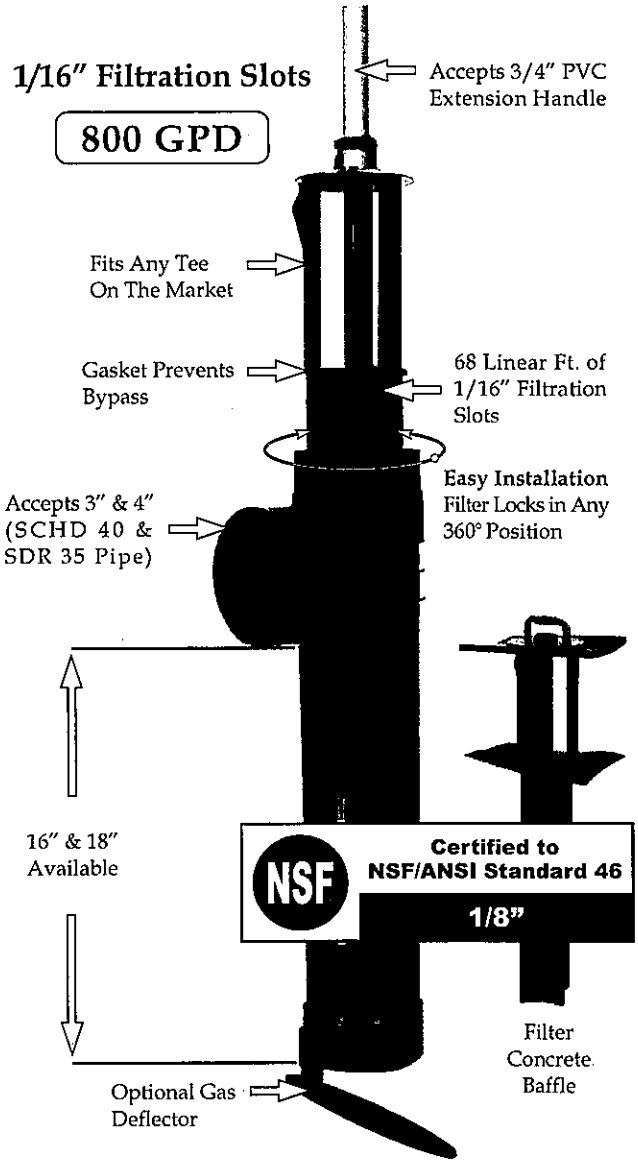
PL-68 Maintenance:

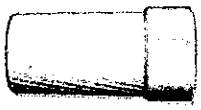
The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
Extend & Lok™

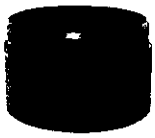




Extend & Lok™
Easily installs into existing tanks.

Spacer Bushing 4" SCHD 40 to SDR 35

Spacer Bushing 4" SCHD 40 to 110mm Pipe



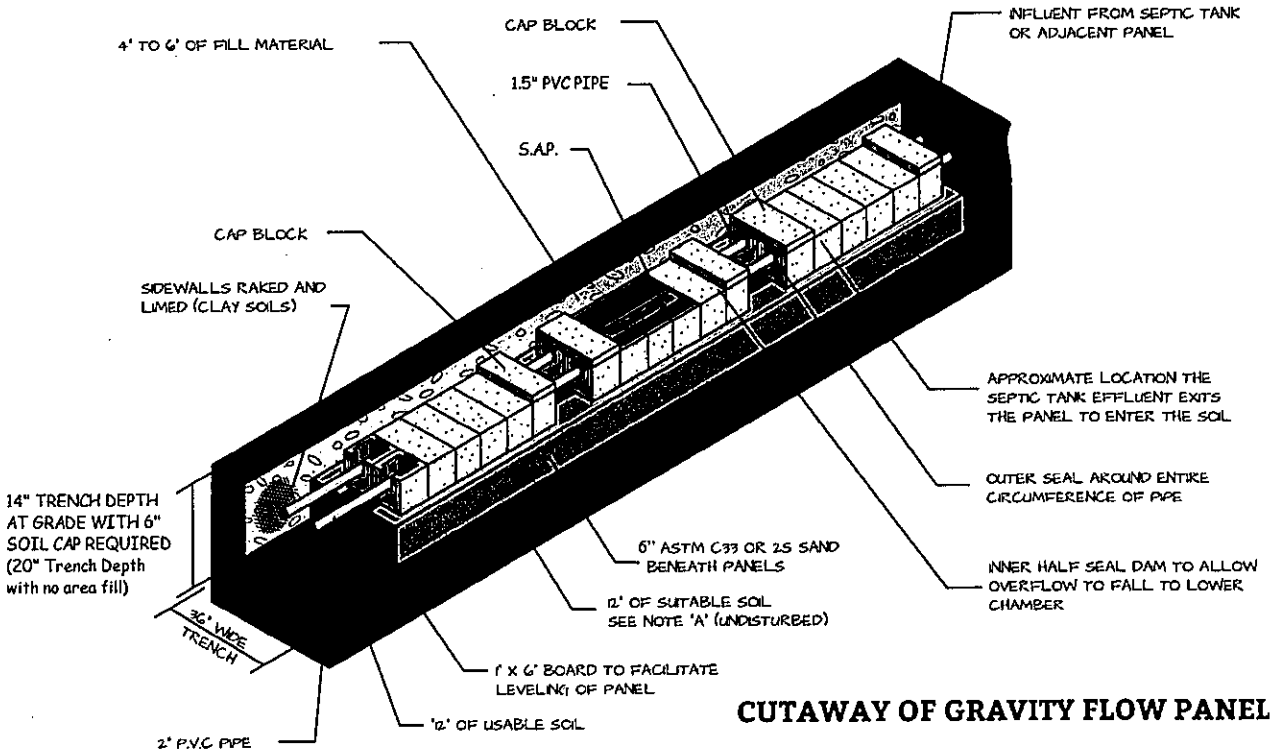
2" Extender

Horizontal Trench Installation

1. Start by shooting grade and marking contour of the lot
2. Using the lowest or shallowest grade on contour, add the specified trench depth
3. Dig the trench at the elevation derived, checking grade frequently.
4. The recommended trench width for horizontal panels is three feet wide and spaced at 9 foot on center unless 8 foot on-center is required to meet setbacks. A two-foot wide trench may be used when limited by slope-correction.
5. If smearing of the side walls is present (as is the case in most clay dominant mineralogy), side walls effected should be raked to bring them back to original structure.
6. Place a 6-inch layer of appropriate backfill sand (natural, clean, screened) in the trench and level to grade. If installing in Group I soil, this 6-inch layer of sand beneath the panel is optional.
7. Place 1x6 inch boards flat down the middle of the trench.
8. Check the grade of the boards by shooting the grade off the top of the boards.
9. One grade boards have been set, panels may be set into the trench on top of the boards using equipment and a lift chain, or if need be by hand.
10. Panels can be placed about 6 inches apart. This spacing can be adjusted to ensure the correct number of panels can be placed into each nitrification line.
11. At the beginning of each line, install an Entry T (for gravity distribution) to divide the gravity flow, as close to the beginning of the first panel as possible.
12. GE Foam Sealer or tar seal rope should be placed in the bottom of the U outs to form seals around the pipe as shown in earlier drawings.
13. Once the GE Foam Sealer or tar seal rope is in place, a 24-inch section of 1 ½ inch PVC pipe (for gravity distribution, see page 13 for pressure distribution instructions) is cut to span from the middle top chamber of the first panel to the middle top chamber of the next panel.
14. Using foam sealer or tar seal rope, form a complete seal on all outer cutouts. Ensure that inner seals are partial seals that do not extend over top of the PVC pipe.
15. After completing the inner and outer seals, place a cap block on each end of the panel to cover all openings.
16. The cap block may serve as an inspection port at some later date.
17. Use the same backfill sand as used in the trench bottom to backfill up to to the top of the panel block.
18. The system is now ready for final inspection.
19. After final inspection, soil cover is to be added over top of the panel block system.

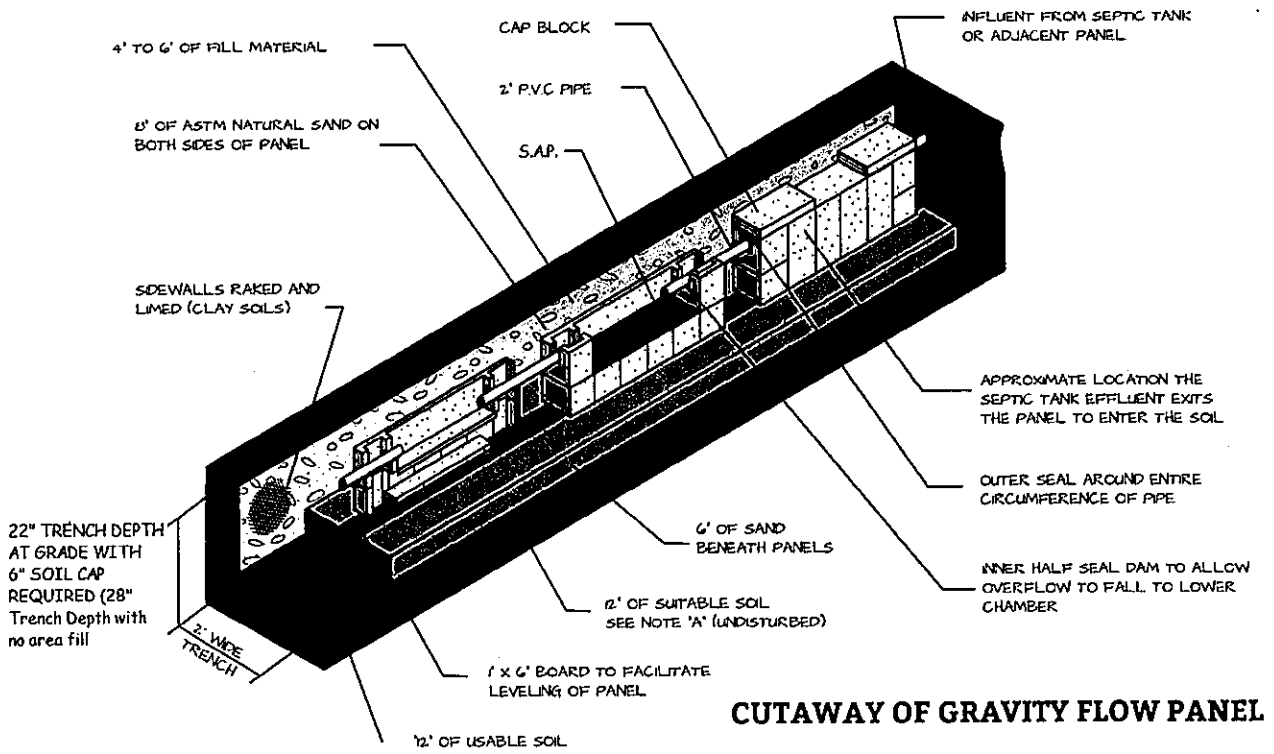
The following page provides illustrations of proper installation of vertical and horizontal panels along with all necessary components.

Isometric Drawing of a Segment of T & J Panel Horizontal Installation



CUTAWAY OF GRAVITY FLOW PANEL

Isometric Drawing of a Segment of T & J Panel Vertical Installation



CUTAWAY OF GRAVITY FLOW PANEL

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 1/30/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Angela Sensenig	
Wade Associates, LLC 250 Pollock St. New Bern NC 28560	PHONE (A/C, No, Ext): (252) 631-5269	FAX (A/C, No): (252) 649-2443
	E-MAIL ADDRESS: asensenig@wadeict.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: United Specialty Insurance Company	12537
INSURED Central Carolina Soil Consulting PLLC 1900 S. Main St. Suite 110 Wake Forest NC 27587	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER: 25-26** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ☐ NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						☐ PER STATUTE ☐ OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N/A (Mandatory in NH)						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Errors & Omissions			GCT-1128819-01	2/1/2025	2/1/2026	Each Claim	$2,000,000
							Policy Aggregate	$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

FOR INFORMATIONAL PURPOSES ONLY
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXX

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

N Whitsett/RACHEL