



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: MATTAMY HOMES LLC
Mailing address: 11000 PEBBLEY PARKWAY City: CARY State: NC Zip: 27518
Phone: (919) 273-3886 Email: PAUL@PLANREVIEW.COM

Authorized Onsite Wastewater Evaluator Information:

Name: David E. Meyer Certification #: 10037E
Mailing address: 4114 LARKIN ROAD DANE City: FAIRFAX State: NC Zip: 27612
Phone: (919) 210-6547 Email: PROTOCOLSAMPLING@YAHOO.COM

Site Location Information:

Site address: 110 LARKIN ROAD DANE FAIRFAX, NC 27526
Tax parcel identification number or subdivision lot, block number of property: 0645-07-0793
County: HARNETT

System Information:

Wastewater System Type: IIb/IIIb
Daily Design Flow: 400 GPD
Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☒ Yes ☐ No 5 YEARS - IF PUMPED
Water Supply Type: ☐ Private Well ☒ Public Water Supply ☐ Spring ☐ Other: _____

Facility Type:

☒ 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:

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

Attest: On this the 14th day of March, 2015 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 14th day of March, 2016.

Signature of Authorized Onsite Wastewater Evaluator: [Signature]

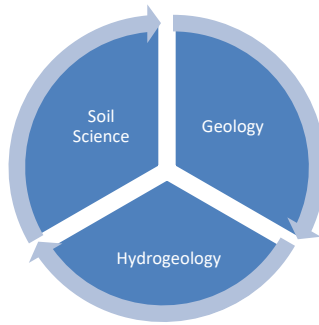
Signature of Owner or Legal Representative: Drew Brody

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: _____



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"
(919) 210-6547

Protocolsampling@yahoo.com
Environmentalservicesnc.com

November 14, 2025

Mr. Drew Brody, Senior Operations Coordinator
Mattamy Homes LLC
11000 Regency Parkway
Cary, NC 27518
Phone: 919-233-3886
Email: raleighplanreview@mattamycorp.com

RE: G.S. 130A-336.2 AOWE
Lot 42, Clarabella Subdivision (0.61 Acres)
110 Clarabella Drive
PIN #: 0645-07-0793
Fuquay Varina, Harnett County, North Carolina 27526

Dear Mr. Brody:

Per your request, I evaluated the above referenced lot for its suitability to accommodate an on-site wastewater disposal system (i.e., septic tank system) to serve a 4-bedroom home. The soil evaluation was performed in accordance with the "Laws and Rules for Sewage Treatment, and Disposal Systems, Article 11, Chapter 130A of NCGS 15A NCAC 18A .1900 et seq." (i.e., 15A NCAC 18E).

Your major request is to obtain the Improvement Permit/Construction Authorization portions of the permitting process from the Harnett County Health Department. You wish to expedite the permitting process by requesting this Licensed Soil Scientist evaluation and report submitted pursuant to G.S. 130A-336.2 AOWE.

The soils consist of loamy sands and sandy clay loam over sandy clay deeper in the profiles. Redoximorphic activity was observed with soil wetness mottle indicators of gray colors of chroma 2 or less (Munsell Chart) at 38-44" in both the initial and repair system areas. It was determined that is a sufficient amount of Suitable Group III soils available in the study area for the installation of the initial and repair pump-fed Accepted systems to serve a daily flow of 480-gpd at a Long-Term Acceptance Rate (L.T.A.R.) of 0.45 gpd/ft² in the initial system area and 0.45 gpd/ft² in the repair system area. Refer to the soil evaluation profile data sheet attached for more detailed soils information.

The initial system will need (4) 55-90' x 3' chamber (12") technology with 25% reduction installed at 18" below grade (maximum), and the repair system will need (6) 20-65' x 3' chamber (12") technology with 25% reduction installed at 18" below grade. Soil cover must be maintained by seeding and straw thatching. Divert all downspouts and surface water run-off around the system. Refer to the attached Plans and Specification sheet for more detailed information. A septic tank diagram and chamber product information with the state approved summary is attached.

In closing, this report, site plan, and septic system design with attachments are being submitted to obtain the Notice of Intent to Construct (NOI) upon review by the Harnett County Health Department's Environmental Health Section. If further information is needed, please let me know as soon as possible.

This LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-336.2 AOWE.

Please call me at (919) 210-6547 if you have any questions or need further assistance.



David E. Meyer, N.C.L.S.S.
Soil Scientist/President



PLANS AND SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE FOR:

Mattamy Homes PIN 0645-07-0793
Lot 42
110 Clarabella Drive
Fuquay Varina, Harnett County, NC 27526

This Licensed Soil Scientist Evaluation is being submitted pursuant to and meeting the requirements of **G.S. 130A-336.2 AOWE**.

Soil/site evaluation and on-site wastewater system layout/design services were performed on the above referenced parcel to serve a **4-bedroom home** with a projected daily wastewater flow of 480 gallons. Evaluations were conducted in accordance with "N.C. Laws and Rules for Sewage Treatment, and Disposal Systems, Article 11, Chapter 130A of NCGS 15A NCAC 18A.1900 et seq." (i.e., 15A NCAC 18E).

A. Septic/Pump Tank Size

1000-gallon septic tank NC state approved (STB 499 or equiv.)

1000-gallon pump tank NC State Approved (PT 237 or equiv.) if needed

Must have effluent filter in septic tank

Septic contractor must inspect before installing.

B. Nitrification Trenches: Initial System

Use Innovative Wastewater Approval No: IWWS-1993-2-R17 12" Quick 4 Plus Standard Chamber System.

(4) x 55-90' x 3' trenches on 9' center contours

Install at 18" (max.).

Install in dry weather only.

No construction traffic shall be on the system area.

A 6" soil cover must be placed and maintained on the field by diverting surface water around area. Proper seeding and straw thatching are required.

C. Distribution

Use serial distribution using end cap side entrance ports with splash plates.

D. Take special care for underground utilities and water lines. Water lines must clear the initial and repair area 10' minimum. Run the water lines and any other utilities up the driveway.

E. Maintenance

Keep system area protected and mowed.

Septic tank should be pumped about every 3-5 years and the effluent filter cleaned at that time.

A garbage disposal may require more frequent pumping out of the septic tank.

No used oils are to be disposed of in the septic tank. No chemical additives are to be discharged to the septic tank.

F. L.T.A.R.

0.45 gpd/ft² for initial and 0.45 gpd/ft² for repair area.

G. Repair Area

Use Innovative Wastewater Approval No: IWWS-1993-2-R17 12" Quick 4 Plus Standard Chamber System.

(5) x 20-65' x 3' trenches on 9' center contours

Install at 18" (max.).

Install in dry weather only.

No construction traffic shall be on the system area.

A 6" soil cover must be placed and maintained on the field by diverting surface water around area. Proper seeding and straw thatching are required.

H. Other References

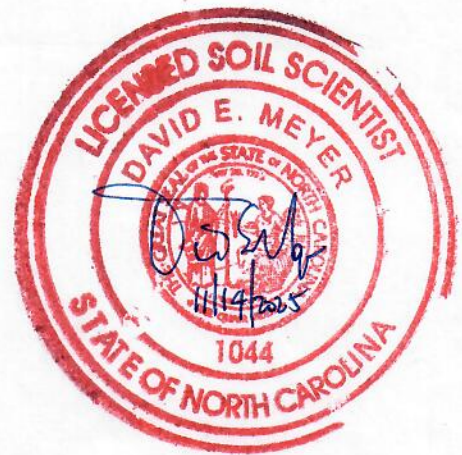
See site plan for system layout. See plat map for soil boring locations. See report and soil profile sheets. See Infiltrator Product sheet, system sizing sheet with trench detail, and state approval summary.

I. **Contact Protocol Sampling Service, Inc. to schedule pre-construction meeting and inspection of installation.**



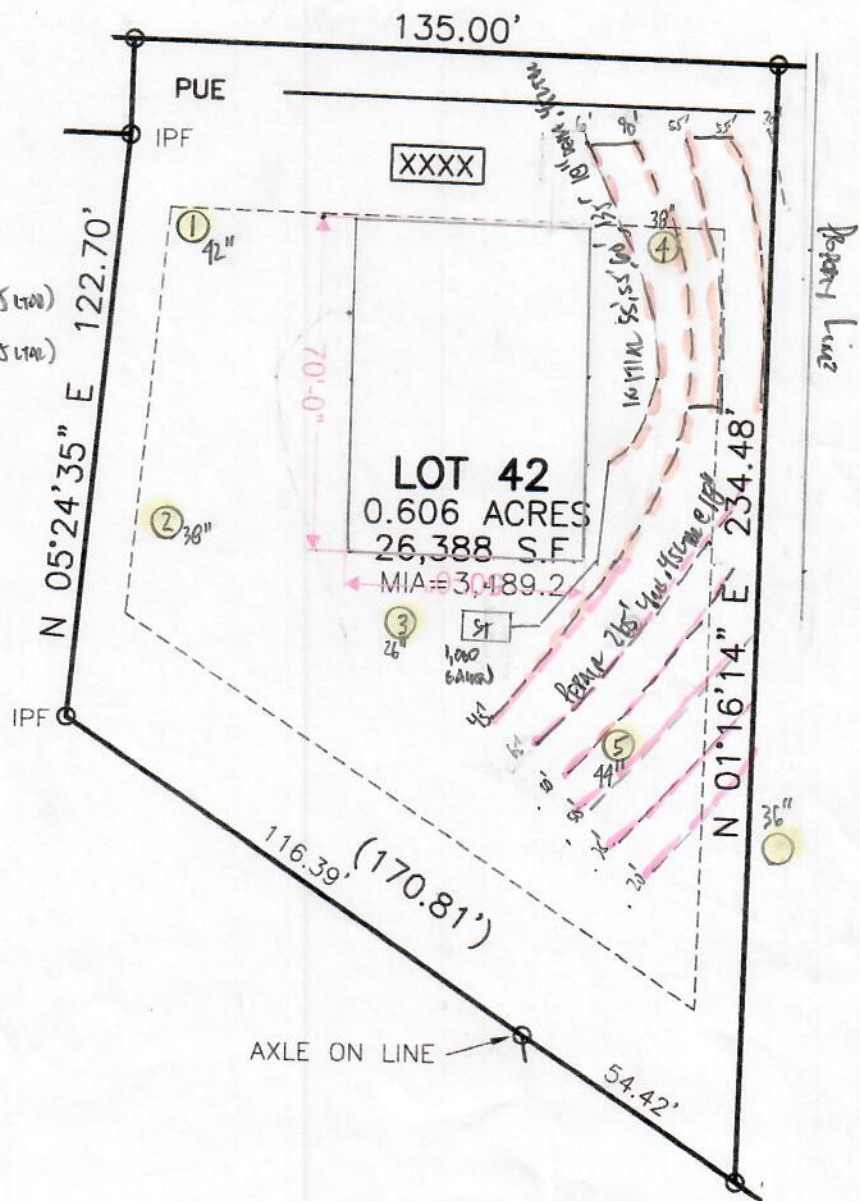
David E. Meyer, N.C.L.S.S.
Soil Scientist/President





LEGEND

- - SOIL BORING (b)
- 42" - SOIL DEPTH
- - - INITIAL SYSTEM LINES (300') (.45 LTR)
- - - FURROW SYSTEM LINES (300') (.45 LTR)



Scan 1" = 40'

Mattamy Homes

1742 Oakridge Drive RD # 22526

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 1 of 1

Protocol Sampling Service, Inc.
4114 Laurel Ridge Dr
Raleigh, NC 27612

CARABELLA

PROPERTY ID #: 0617-17-1662
DATE OF EVALUATION: 2-5-25
COUNTY: HARNETT

LOT 42 300' Line x 2 @ .45

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)				OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY		.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ		
1	T 3h	0-20"	SL	LS	Fr	NSP	42" 10m6/v	42"	—	42" PUMPHING	0.3-0.6 (6.4)
		20-42"	SL	SL	Fr-Fi	SSM					
		42-	SL-Ca	SL	Fi, Caite	SP					
2	T/SS 3h	0-24"	SL	LS	Fr	NSP	30" 10m6/v 40" 10m6/v	48"			0.3-0.6 (6.4)
		24-34"	SL	SL	Fr	NSP					
		34-40"	SL	SL	Fr-Fi	SSM					
		40-48"	SL	SL/SL	Fi	SSSP					
3	T/SL 5h Rem Lox	0-15"	SL	LS	Fr	NSP	26" 10m6/v	36"			0.1-0.4 (0.3)
		15-26"	SL	SL	Fr-Fi	SSM					
		26-31"	SL	SL	Fi	SSSP					
		31-36"	SL	SL/SL	Fr-Fi	SSM					
4	T/SS 5h	0-24"	SL	LS/SL	Fr	NSM	30" 10m6/v	40"			0.3-0.6 (0.4)
		24-38"	SL	SL	Fr	SSM					
		38-48"	SL	SL/SL	Fr-Fi	SSS					
5	T/SL 5h	0-31"	SL	LS	Fr	NSM	44" 10m6/v	40"			0.6-0.8
		31-38"	SL	SL	Fr	NSM					
		38-48"	SL	SL/SL	Fr-Fi	SSS					

COMMENTS:

Quick4Plus[®] Standard Chambers

The Quick4 Plus Standard Chamber offers maximum strength through its two center structural columns. This chamber can be installed in a 36-inch-wide trench. Like the original line of Quick4 chambers, it offers advanced contouring capability with its Contour Swivel Connection[™] which permits turns up to 15-degrees, right or left. It is also available in four-foot lengths to provide optimal installation flexibility. The Quick4 Plus All-in-One 12 Endcap, and the Quick4 Periscope are available with this chamber, providing increased flexibility in system configurations.

Benefits

- Two center structural columns offer increased stability and superior strength
- Advanced contouring connections
- Latching mechanism allows for quick installation
- Four-foot chamber lengths are easy to handle and install
- Supports wheel loads of 16,000 lbs/axle with 12" of cover

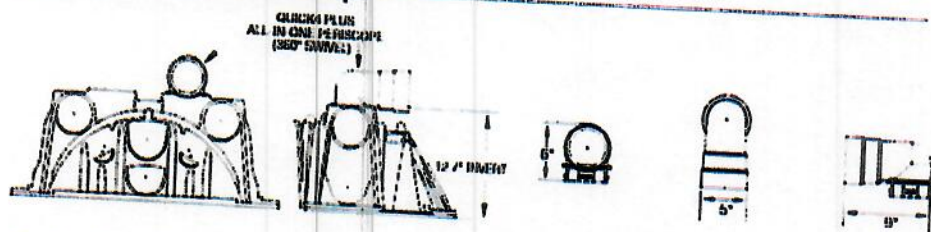
Quick4 Plus All-in-One Endcap Benefits

- May be used at the end of chamber row for an inlet/outlet or can be installed mid-trench
- Mid-trench connection feature allows construction of chamber rows with center feed, as an alternative to inletting at the ends of chamber rows
- Center-feed connection allows for easy installation of serial distribution systems
- Pipe connection options include sides, ends or top

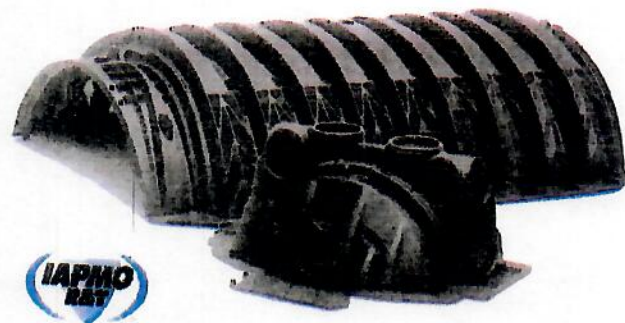
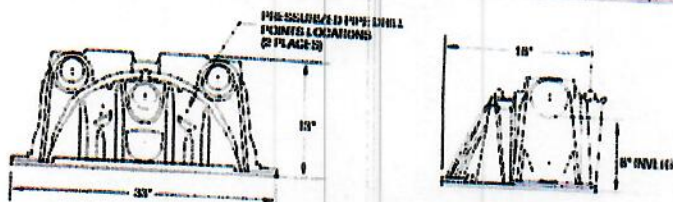
Quick4 Plus Standard Chamber



Quick4 Plus All-in-One Periscope



Quick4 Plus All-in-One 12 Endcap



Quick4 Plus Standard with All-in-One Endcap

Quick4 Plus All-in-One Periscope

- Allows for raised invert installations
- 180° directional inletting
- 12" raised invert is ideal for serial applications



Quick4 Plus Standard Specifications

Size	34"W x 53"L x 12"H (864 mm x 1346 mm x 305 mm)
Effective Length	48" (1219 mm)
Louver Height	8" (203 mm)
Storage Capacity	47 gal (178 L)
Invert Height	0.6" (15 mm), 5.3" (135 mm), 8.0" (203 mm), 12.7" (323 mm)

Contact Infiltrator's Technical Services Department for assistance at 1-800-221-4436 or info@infiltratorwater.com

STATE APPROVAL SUMMARY

Excerpt from AWWA 2005-01-RE. Accepted approval with 4.0 ft³/l for the Quick4 Plus Standard chamber model and sizing only. Allows for substitution of any conventional permits.

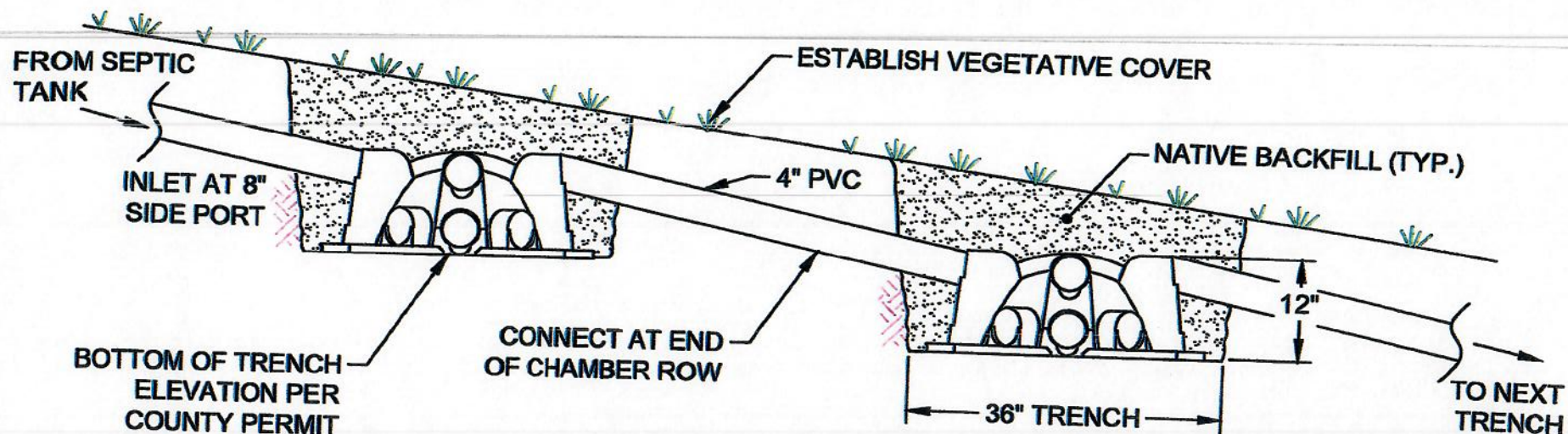
B. Responsibilities and Permitting

- A. The local health department shall permit these accepted system in an equivalent manner as a conventional system, when the requirements of 18A NCAC 18A .1600 et. Seq., laws, and conditions of this accepted system approval are met.
- B. When use of one or more of these accepted systems is requested in the application for a Construction Authorization, the local health department shall include a design for the designated accepted system(s) in accordance with the approved sizing, design criteria on the Construction Authorization.
- C. When a permit or authorization is issued for a conventional system, the permit or authorization shall contain a statement that indicates that an accepted system may also be used. These accepted systems may be installed without permit/authorization modification, prior approval of the health department, or separate sign-off, if the accepted system can be placed in the permitted/authorized trench footprint and the installation is in accordance with the accepted system approval, without unauthorized product alteration.
- D. When substitution with one of these accepted systems for a conventional system or another accepted system is made, permit modification, prior approval of the health department or separate owner sign-off is not required as long as no changes are necessary in the location of each nitrification line (except reduction in line length and/or number as allowed for in this approval), trench depth, or effluent distribution method.
- E. Notwithstanding paragraphs C and D above, when a substitution in system type compared to a previously permitted or authorized system type or types shall result in a change in the location of any nitrification line (including any increase in line length), trench depth, or effluent distribution method, prior approval by the local health department is required before system installation. The local health department shall modify the permit/authorization upon a finding that all provisions of this approval and all other applicable rules shall be met.
- F. The type of system installed shall be indicated on the Operation Permit, including designation of the manufacturer and model or unique code.

CHAMBER APPROVAL SUMMARY

Model	Accepted	Innovative
Quick4 Plus Standard	Q1	Q1
Quick4 Plus Standard LP		Q1
Quick4 High Capacity		Q1
Quick4 Equi-Flow		Q1
Quick4 Equi-Flow 24		Q1

NOTES:
 1. AWWA 2005-01-RE
 2. AWWA 2005-01-RE
 3. AWWA 2005-01-RE
 4. Manufacturer's product literature subject to change.



*NUMBER OF ROWS DETERMINED BY DESIGN
AND CENTER TO CENTER SPACING PER CODE.



INFILTRATOR WATER TECHNOLOGIES, LLC
4 BUSINESS PARK RD., OLD SAYBROOK, CT 06475
WWW.INFILTRATORWATER.COM
PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

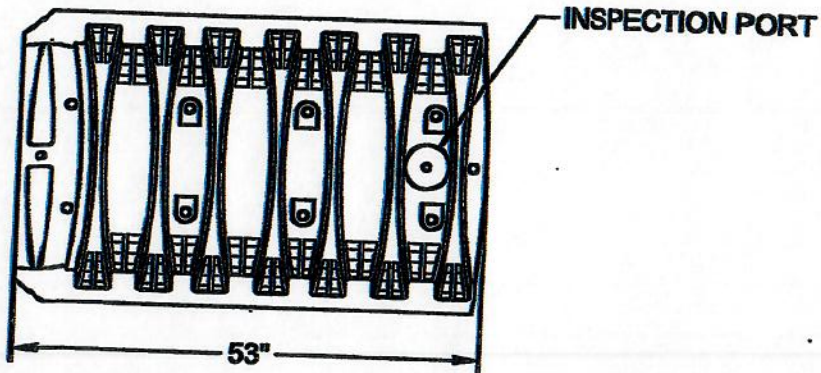
Quick4

QUICK4 STANDARD CHAMBER
SERIAL DISTRIBUTION TYPICAL DETAIL
SECTION VIEW

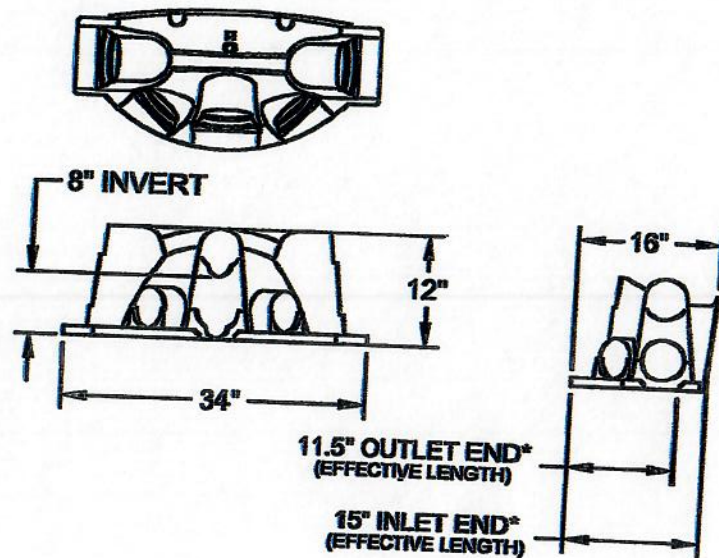
PART NO.
P/N
DATE
04/21/2025
SCALE
NTS
SHEET NO.
01 of 01

**INFILTRATOR WATER TECHNOLOGIES
QUICK4 STANDARD CHAMBER
PRODUCT SPECIFICATIONS
(NOT TO SCALE)**

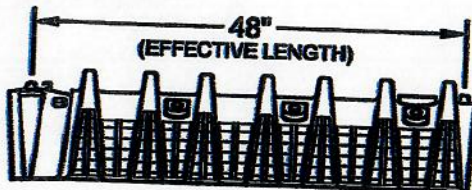
TOP VIEW



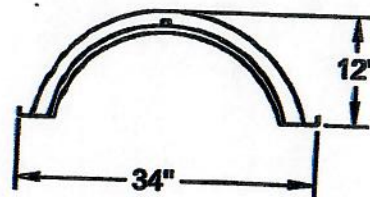
QUICK4 STANDARD MULTI-PORT END CAP



SIDE VIEW



END VIEW



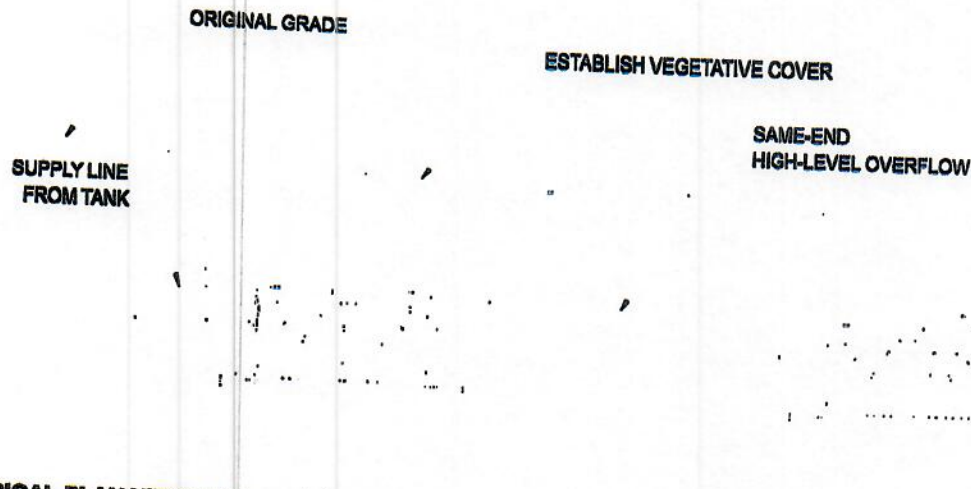
* ALL VIEWS = INSTALLED LENGTH.

 INFILTRATOR		
INFILTRATOR WATER TECHNOLOGIES 4 Business Park Rd. Old Saybrook, CT 06475 (800) 221-4426		
QUICK4 STANDARD CHAMBER PRODUCT SPECIFICATIONS		
Drawn by: EMB Scale: NOT TO SCALE	Checked by: DFH	Date: 05/21/2015 Sheet: 1 of 1

CHAMBER CONFIGURATIONS

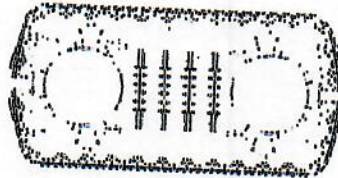
Serial Distribution - Quick4 Plus Standard Chambers Using Quick4 Plus All-in-One 12 Endcaps as Drop Boxes

TYPICAL CROSS SECTION (not to scale)



TYPICAL PLAN VIEW (not to scale)

QUICK4 PLUS
ALL-IN-ONE 8 ENDCAP (TYP.)



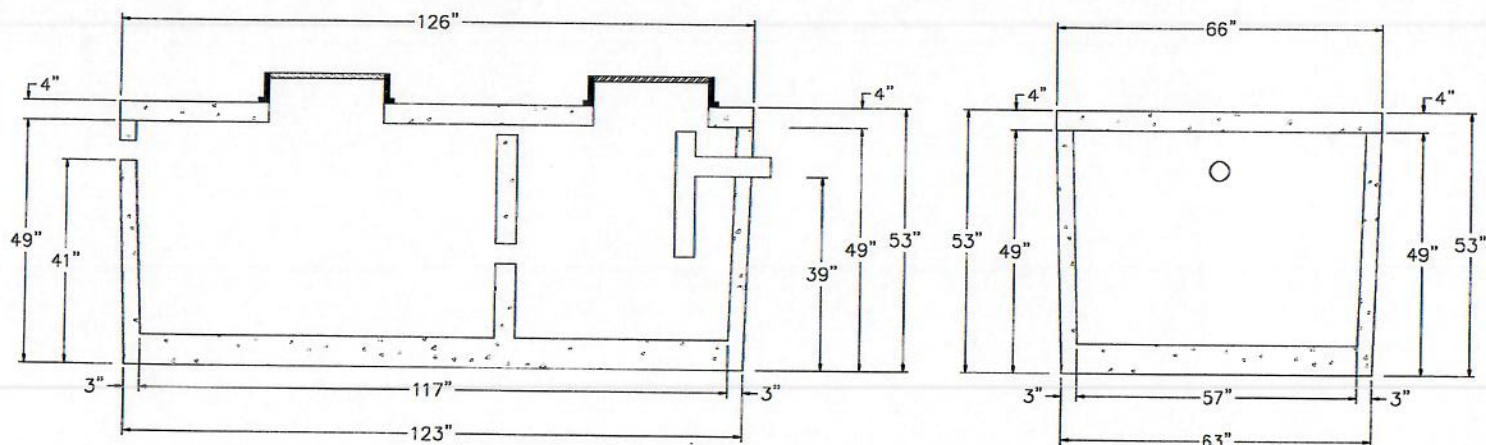
INFILTRATOR IM-SERIES SEPTIC TANK

QUICK4 PLUS STANDARD
LOW PROFILE CHAMBER

9' MIN. ON CENTER

NOTES:

1. See endcap sizing chart to determine endcap linear foot credit.
2. These are schematic drawings only; pipe size, type and layout per design.
3. The Quick4 Plus Standard chamber is compatible with the Quick4 Plus All-in-One 12 Endcap. The Quick4 Plus Standard LP chamber is compatible with the Quick4 Plus All-in-One 8 Endcap and the Quick4 Plus 8 Endcap.



1,000 ST 499
NTS

NON TRAFFIC BEARING

BRANTLEY TANK MODEL
1,000 ST 499

SHEET NUMBER
1 of 1

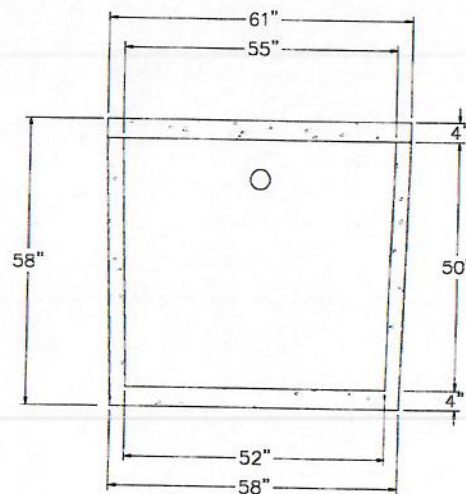
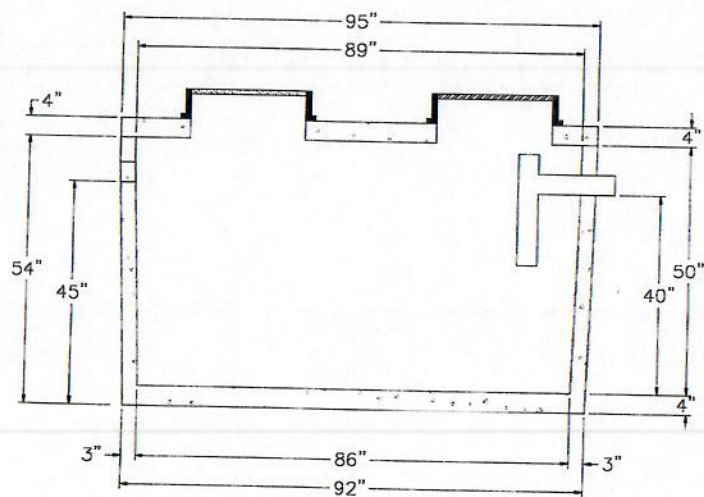
REVISION NO.	DATE
Original Submitted	April 11, 2014
Revision 1	
Revision 2	
Revision 3	
Master Set	

PREPARED FOR : David Brantley & Sons
37 Pine Ridge Rd.
Zebulon, NC 27597

DATE : April 11, 2014

CONTACT: CORY BRANTLEY

DAVID BRANTLEY & SONS
37 Pine Ridge Rd.
Zebulon, NC 27597
Office 252-478-3721
Fax 919-573-0443
tinstaller@gmail.com



1,000 PT 237
NTS

NON TRAFFIC BEARING

DAVID BRANTLEY & SONS 37 Pine Ridge Rd. Zebulon, NC 27597 Office 252-478-3721 Fax 919-573-0443 installer@gmail.com		PREPARED FOR : David Brantley & Sons 37 Pine Ridge Rd. Zebulon, NC 27597 DATE : Apr 11, 2014 CONTACT: CORY BRANTLEY	REVISION NO. Original Submittal Revision 1 Revision 2 Revision 3 Master Set	DATE April 11, 2014	BRANTLEY TANK MODEL 1,000 PT 237 SHEET NUMBER 1 of 1
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