

#### **Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: $1-8-16$ ONSITE SEWAGE DISPOSA	L SYSTEM P <u>55 / 96 /</u>
APPROVAL DATE: 3-H-16 PERMIT: CONST	RUCTION
PROPERTY ADDRESS: 18329 Chelsea Knolls Drive	
SUBDIVISION: Chelsea Knolls	LOT: <b>6</b> TAX ID:
CONTRACTOR: Hatfield's Equipment	EMAIL: <u>ken@hatfieldsequipment.com</u>
CONTRACTOR ADDRESS: P.O. Box 519 Annapolis Junction, MD 20701	PHONE: <b>301-490-4289</b>
CONTRACTOR CERTIFIED FOR BAT INSTALLATION:	MANUFACTURER:
PROPERTY OWNER: Ryan Homes	EMAIL: <u>dsnyder@nvrinc.com</u>
OWNER ADDRESS: 9720 Patuxent Woods Drive	PHONE: 410-796-0980
BAT UNIT MODEL: Norweco TNTLP 500 PUMP SIZE: 0.5HP	PUMP TANK CAPACITY: 1500 GAL
OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 5/1/14	DATE RECORDED: 5/1/14
DISTRIBUTION SYSTEM:   GRAVITY   PRESSURE DOSED	BEDROOMS: 5 APPLICATION RATE: 0.8
LINEAR FEET REQUIRED: 314.5	INLET DEPTH: 4
TRENCHES: TRENCH WIDTH: 3	МАХІМИМ ВОТТОМ DEPTH: <b>6</b>
MINIMUM SPACE BETWEEN TRENCHES: 10 EFFE	CTIVE AREA BEGINNING DEPTH: 5.5
PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND RAT	
LOCATION: SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	
ISSUED BY: Robert Bricker ISSUE DATE:	1-8-16 EXPIRATION DATE: 1-8-17
NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION P	PRIOR TO BEGINNING ANY INSTALLATION
NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL	
NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TIC NOTE: WATERTIGHT SEPTIC TANKS REQUIRED	CKET MUST BE AVAILABLE FOR REVIEW.
NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRA	DIENT FROM ANY WATER WELL
NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAME	
NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELEC	CTRICAL COMPONENTS OF THE SYSTEM
NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BA	AT INSTALLATION MUST BE PRESENT AT ALL TIMES
DURING BAT INSTALLATION.  NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENTENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA	

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

	TOTAL LENGTH315 ' ABSORPTION AREA
See As-Built Drawing On Separate Sheet	SEPTIC TANK DATA SEPTIC TANK I LEVEL YES  MANUFACTURER BACKELVER  CAPACITY 1300 GAL  SEAM LOC TOP  TANK LID DEPTH 2.5'- 4' †  BAFFLES NO  BAFFLE FILTER NO  MANHOLE LOC FRONT, MIDDLE PEAR  6" PORT LOC NONE  WATERTIGHT TEST NO  SLOTTED NO  DATE ON LID 11/28/15  PUMP/SEPTIC TANK LEVEL YES  MANUFACTURER BACKELVER  CAPACITY 1500 GAL  SEAM LOC TOP  TANK LID DEPTH 3.5'- 4'*  BAFFLES YES  BAFFLES YES  BAFFLE FILTER NONE  MANHOLE LOC FRONT + PEAR  6" PORT LOC NONE  WATERTIGHT TEST NO

NOT TO SCALE

TRENCH/DRAINFIELD DATA

INLET

4'

WIDTH

3'

NUMBER OF TRENCHES

SLOTTED NO

DATE ON LID 12/19/15

**BOTTOM** 

6'

1/21/2016 Trench locations adjusted slightly so that trenches will be on contour. The two 45° bends are removed from the force main, Otherwise install as per plan (BB)

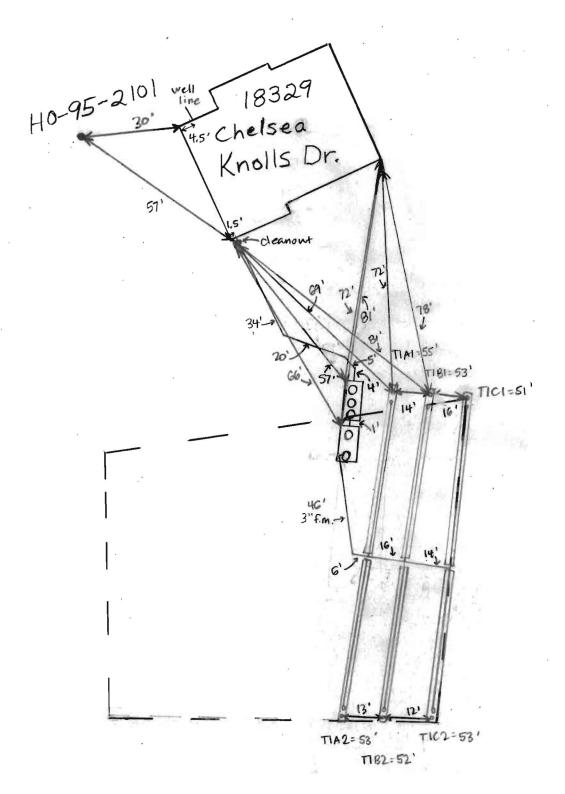
**ROAD NAME** 

INSTALLATION: 2/2/16 Dr site while pump tank was set - no cracks on sides lots of york in tank hole near inlet of Norweco starting at 3' depth. Final grading over tanks not to exceed 3'. © 2/4/16 Trench IAI dug + covered. Hatfield's laying pipe in IBI.

4' to stone under pipe. 3" f.m. run from tank to lower trench. © 2/5/16 House Connection made. Line bedded from house to tank with #57 stone. All laterals: trenches complete. IA2-101 left open - IA2 3.5' to stone, ICI 2.5'-3' to stone. ICI slightly under at end. Need BAT startup certification and pump + clarm. SO 2/16/16 BAT startup received. © 3/11/16 On site for pump: clarm. Alarm sounds not enough water to do pump test.

Norweco alarm sounds: aerator runs © DATE OF APPROVAL 3/14/16

Solution of the first successful 34"246" Distal head an all layerabs. Told contact to turn valve 15" of turn.



# Back River Pre-Cast, LLC

PO BOX 329 Glyndon, MD 21071 Phone # 410-833-3394 Fax # 410-833-4116

## Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 18329 Chelsea Knolls Dr., Mt. Airy, MD 21771 February 02, 2016 was installed according to the manufacture's specifications.

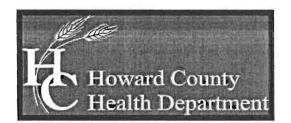
Installer: Jeff Reiter

Property Owner: NVR

Permit#

MATTHEW GECKLE

Vice-President



#### Bureau of Environmental Health

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> Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

Lotlo

### OPERATION AND MAINTENANCE AGREEMENT FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM HAVING AN ADVANCED PRE-TREATMENT SYSTEM

THIS AGREEMENT is made this 51 day of Mou 2014 among
Chelsea Knolls, LC , hereinafter collectively referred to as
"Owner", and the Howard County Health Department hereinafter referred to as the
"County".
WHEREAS, Owner is the owner or contract owner of a parcel of land located at
18329 Chelsea Knolls Drive, Mt Airy, Maryland 21771, in the 4th Election District of Howard
County, Maryland, and the deed to same is recorded or shall be recorded among the Land
Records of Howard County, Maryland in Liber 8717 Folio 579.
WHERE AS. The Let is switched for the installation of a conventional on site sources

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

- F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.
- G. This agreement may be voided at any time at the discretion of the County.
- H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.
- I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.
- J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

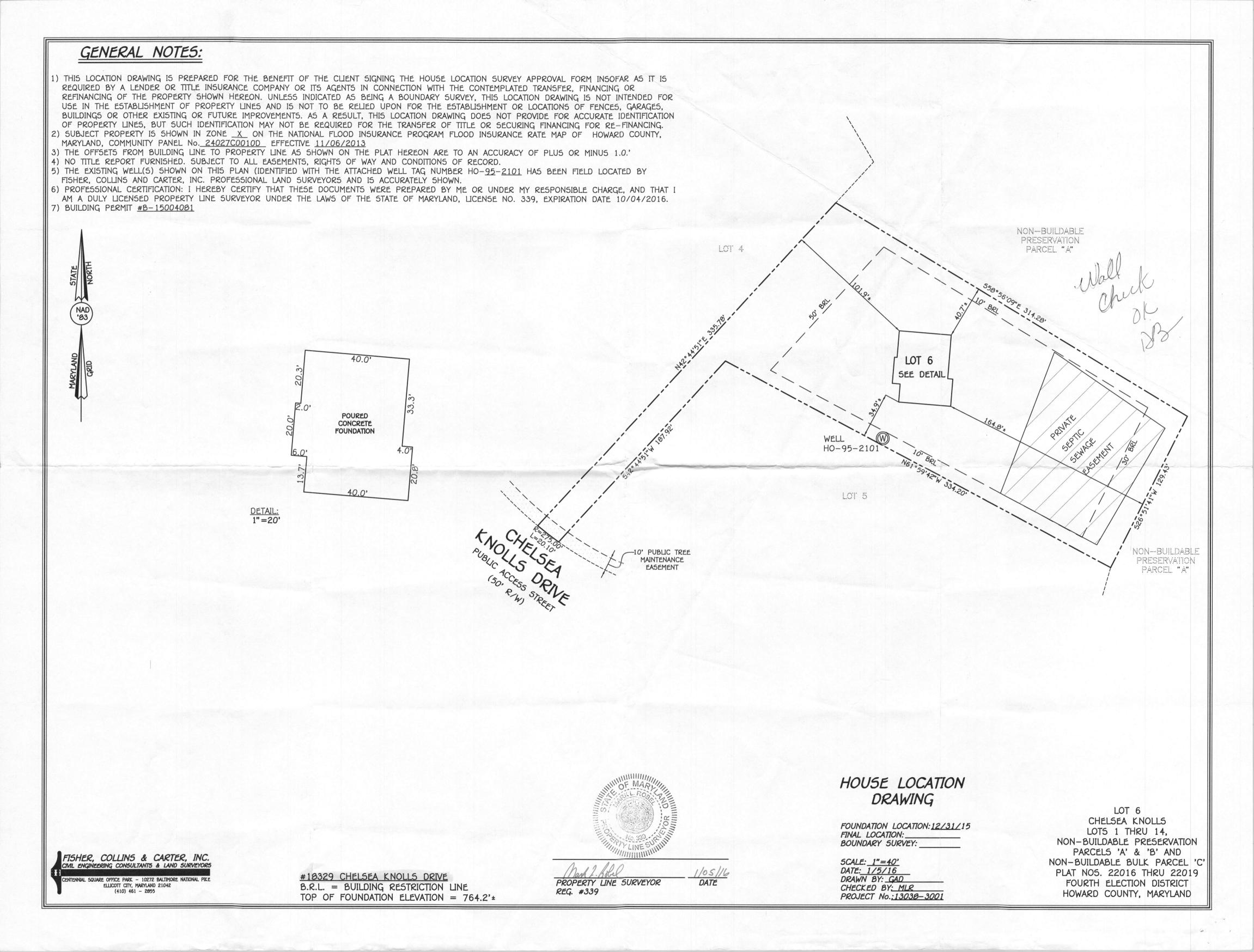
Owner Date Owner Date
Chelsea Knolls, L.C., Russell Dickens, Manager

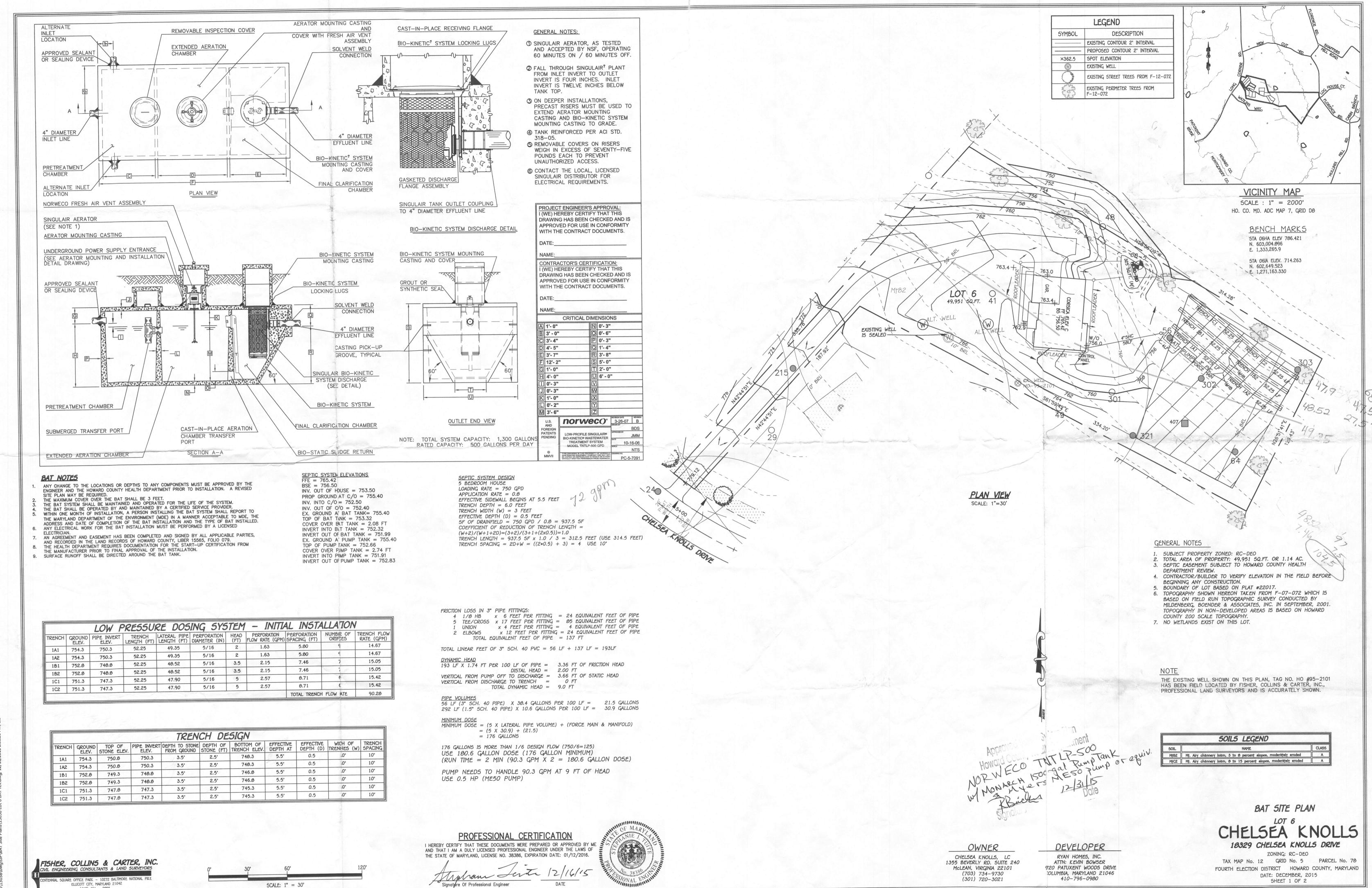
Howard County Health Department

13038-3001 Clerk of the Circuit Court for Howard County Howard County
Land Records/Licensing
The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

LR - Agreement Recording Fee
1x 20.00 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 82 LR - Agreement Surcharge 40.00 40.00 1x LR - Agreement Recording Fee 1x 20.00 20,00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 83 LR - Agreement Surcharge 40.00 40.00 1x LR - Agreement Recording Fee 1x 20.00 ix 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 84 LR - Agreement Surcharge 40.00 40.00 1x LR - Agreement Recording Fee 1x 20.00 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 85 LR - Agreement Surcharge LR - Agreement Recording Fee 1x 20.00 40.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 86 LR - Agreement Surcharge 1x 40.00 40.00 LR - Agreement Recording Fee 1x 20.00 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 87 LR - Agreement Surcharge 40.00 1x 40.00 LR - Agreement Recording Fee 1x 20.00 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 88 LR - Agreement Surcharge 40.00 LR - Agreement Recording Fee 1x 20.00 40.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 89 LR - Agreement Surcharge 40.00 1x 40.00 LR - Agreement Recording Fee 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 90 LR - Agreement Surcharge 1x 40.00 LR - Agreement Recording Fee 1x 20.00 40.00 1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC

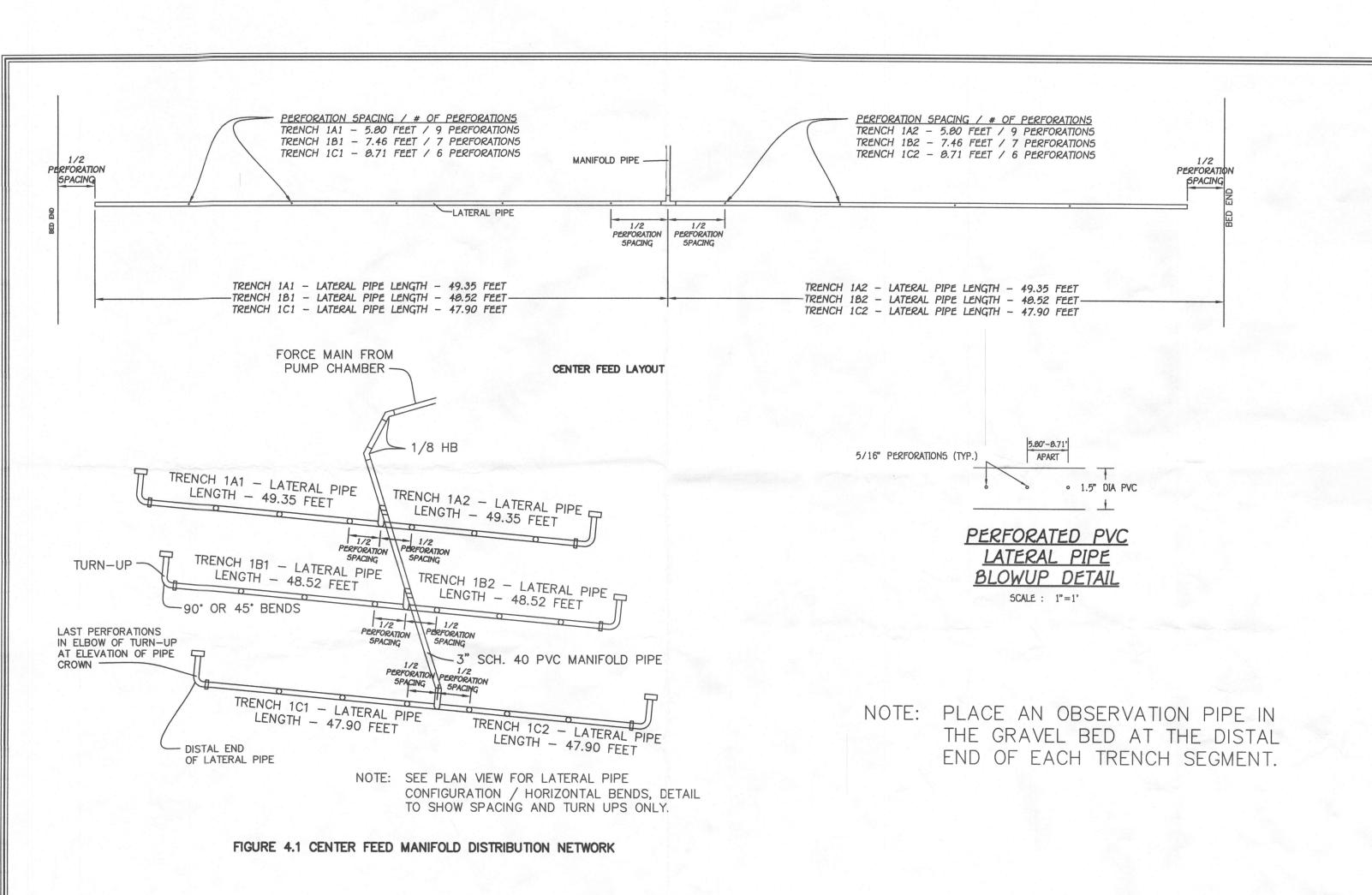
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LR - Agreement Recording Fee 1x 20.00 20.00
Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 92
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LR - Agreement Recording Fee 1x 20.00 20.00
Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 93
LR - Agreement Surcharge 1x 40.00 40.00
LR - Agreement Recording Fee
Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 94
LR - Agreement Surcharge
1x 40.00 40.00 LR - Agreement Recording Fee 1x 20.00 20.00
Grantor/Grantee Name: 95
LR - Agreement Surcharge 1x 40.00 40.00
LR - Agreement Recording Fee ** VOID ** 1x -20.00
LR - Agreement Surcharge ** VOID **
LR - Agreement Recording Fee -40.00
1x 20.00 20.00 Grantor/Grantee Name: Chelsea Knolls LC Reference/Control #: 95
LR - Agreement Surcharge 1x 40.00 40.00
======================================
Total: 840.00
REV-Check-80A 840.00 Number: 3616
05/01/2014 14:01 CC13-JE #2738771 /494/109
Thank you for visiting us today

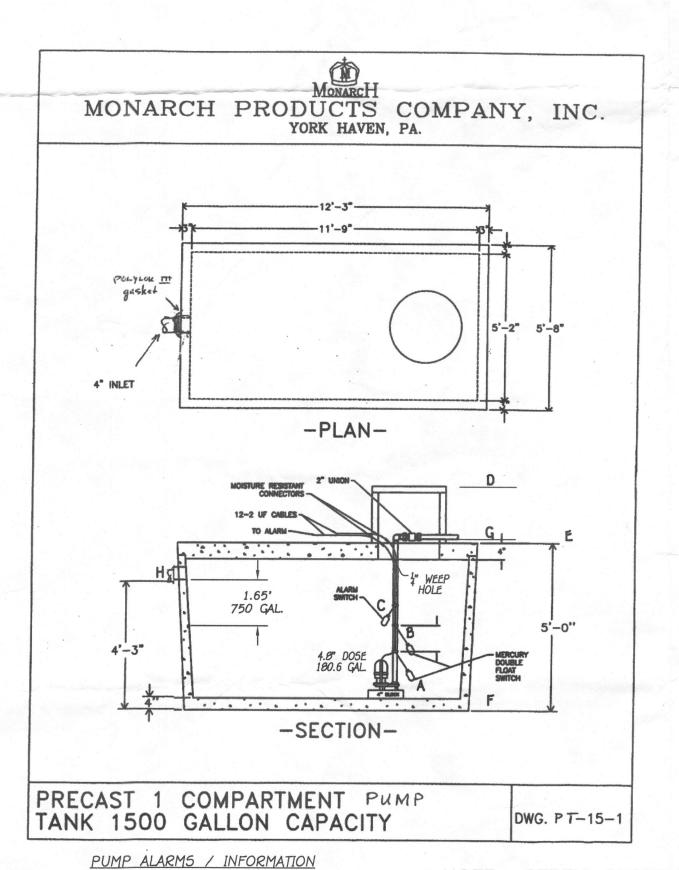


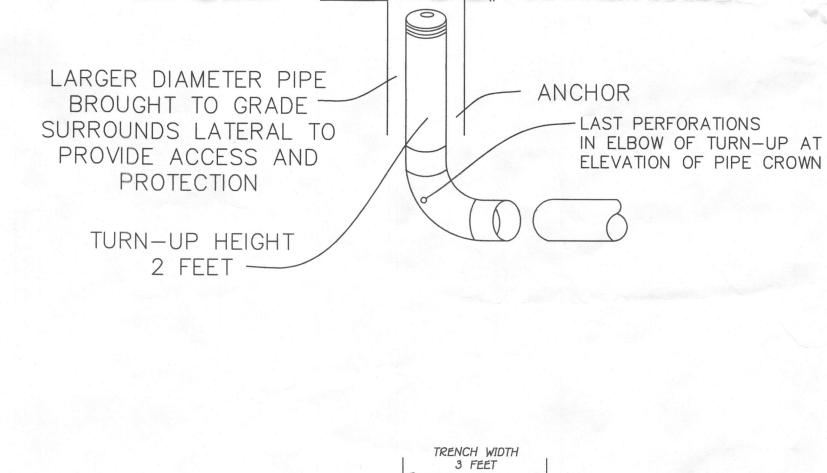


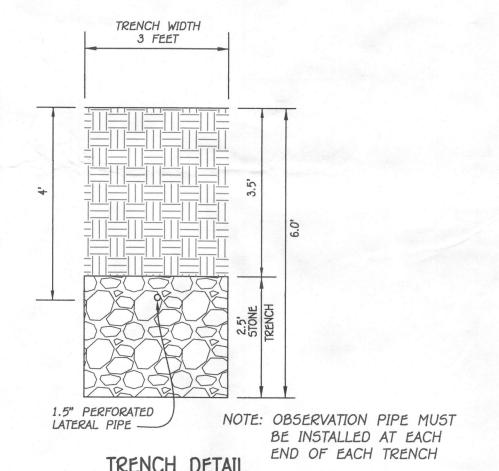
11. MS 05-16 116/2017 They day 15-16 BAT row days 12/16/2015 2-58-20 PM 1-1

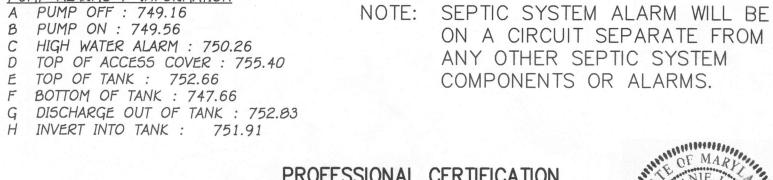
(410) 461 - 2855



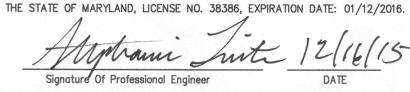








PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME





OWNER CHELSEA KNOLLS, LC 1355 BEVERLY RD. SUITE 240 McLEAN, VIRGINIA 22101 (703) 734-9730 (301) 720-3021

DEVELOPER RYAN HOMES, INC. ATTN: KEVIN BOWSER 9720 PATUXENT WOODS DRIVE COLUMBIA, MARYLAND 21046 410-796-0980

Trust The Pump Experts. Myers has a market leading portfolio of horsepower and pump curve combinations, delivered with distinctive service.

## Features

RELIABLE AND TOUGH Rugged, oil-cooled motor provides continuous bearing lubrication and

maximizes heat dissipation EXTENDED SERVICE Lubricated ball bearings and shaft seal for

longer service life

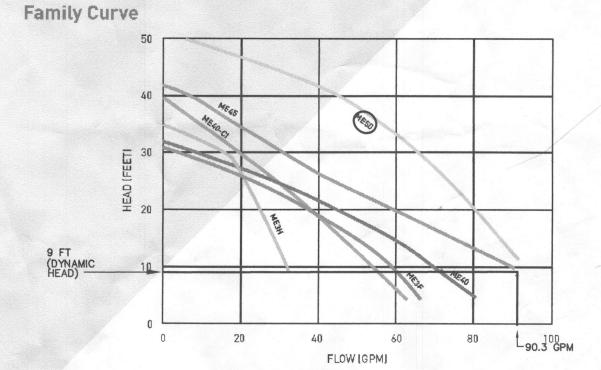
MOTOR PROTECTION Long-life carbon/ceramic seal protects motor against water leakage

THERMAL OVERLOAD

 Heat sensor overload protection with automatic reset when motor cools to safe operating temperature

NO DRILLING REQUIRED Anti-airlock hole in base reduces added labor

**EASY SERVICEABILITY** · Pump, intake screen volute base, switch and power cord are serviceable



ME45 ME3H ME40-CI ME40 ME3F ME50

ME3H: 36 GPM Capacities: 80 GPM (203 LPM) 60 G PM (227 LPM) 87 GPM (229 LPM) 120 GPM (454 LPM) ME3F: 66 GPM [249 LPM] Shut-off Head ME3H: 351 [10.7 m] 321 [9.75 m] 40' [12 m] 44' [13.41 m] 95' [28.9 m] ME3F: 31' (9.5 m) Automatic or manual Solids Handling Domestic effluent and Domestic effluent and Domestic effluent and Domestic effluent and Continuous 130° F |55°C) Intermittent up to Intermittent 140°F (60°C) up to 140°F (60°C) Intermittentup to up to 140°F K0°C1 Motor Electrical Data 1/3 HP, 1550 RPM, 4/10 HP, 1650 RPM, 4/10 HP, 3450 RPM, 1/2 HP, 2450 RPM, 1,/2 HP, 115V, 1ø, 1/2 shaded pole, oil-filled, PSC with thermal PSC with thermal 115V, 12A, 1¢, 60Hz, overload, oil-filled; overload, 115V, 230V, 6A, 1¢, 60Hz 115V, 12A, 1¢, 60Hz; 10FLVA, 1¢, 60Hz PS0 with thermal overload, oil -filled; 08/230/460/575V, 36, 10FLVA, 18, 60Hz 115V, 9.6 A., 1ø, 60 Hz; PSC with the most 230V, 6A, 1ø, 60Hz 230V, 4.3 A, 1ø, 60 Hz overload, oil-filled, permanent split 3450 RPM, 60Hz Acceptable pH Range 6-9 Carbon and ceramic Carbon and ceramic Carbon and ceramic Carbon and ceramic Carbon and ceramic

Specifications

Yolute Base

Impeller.

ME SERIES

ME3F/ME3H ME40/ME40-CI ME45 0 50 100 150 200 250 200 250

mechanical seal.

20', 16/3, SJTW

1-1/2" (98.1 mm) 1-1/2" (98.1 mm) 2" (50.9 mm)

Exterior Hardware Stainless steel Stainless steel

Fiberglass reinforced Cast iron

mechanical seal

clog, voirtex type

20' [6 m], 16/3,

mechanical seal

20', 16/3, SJTW

Cast iron

Thermoplastic, non-Cast iron

me chanical seal

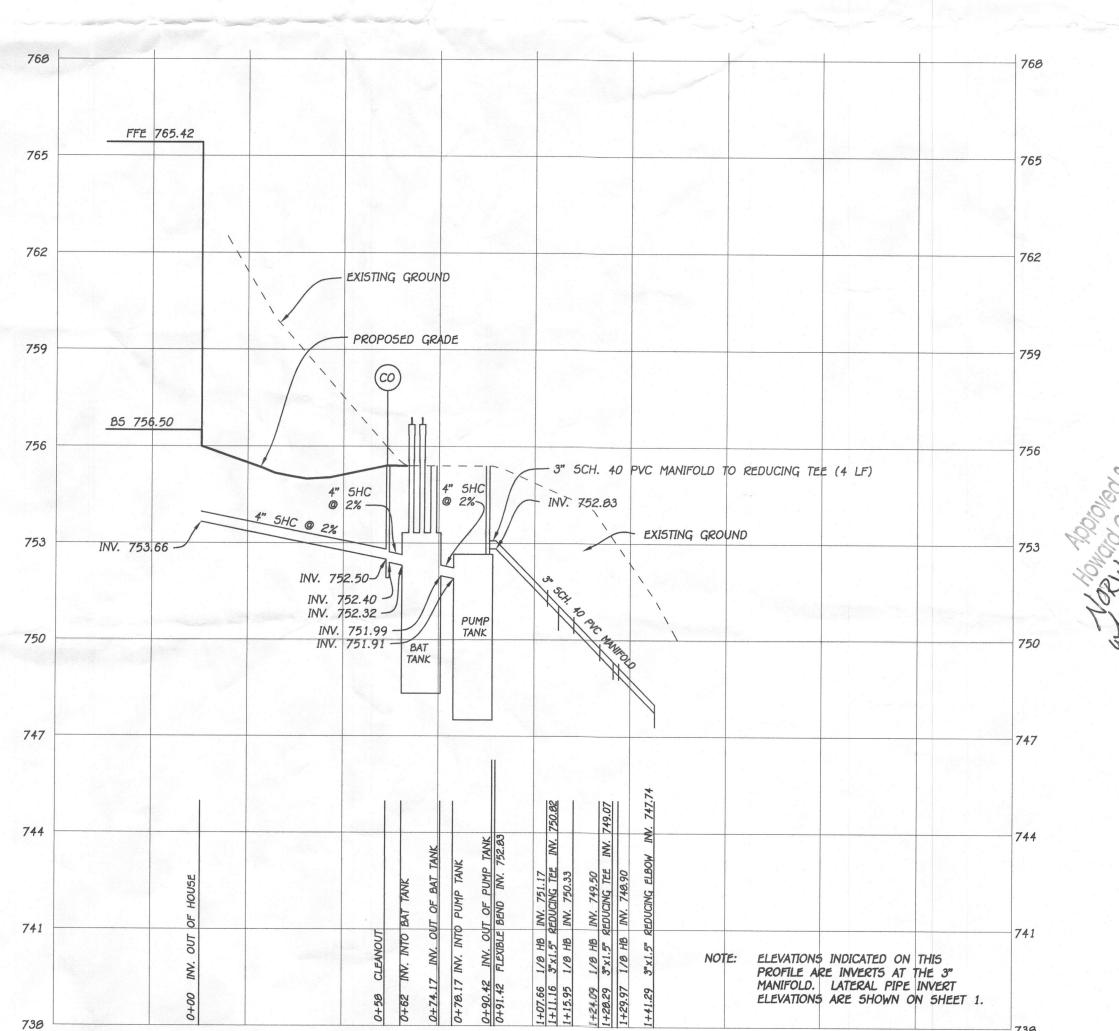
Castiron

Castiron

2"[50.8 mm] 2"[50.8 mm]

ME50

NOTE: USE A MESO PUMP



SEPTIC PROFILE

HORIZONTAL SCALE: 1"=30'

VERTICAL SCALE: 1"=3"

BAT SITE PLAN

CHELSEA KNOLLS 18329 CHELSEA KNOLLS DRIVE

ZONING: RC-DEO TAX MAP No. 12 GRID No. 5 PARCEL No. 78 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: DECEMBER, 2015 SHEET 2 OF 2

FISHER, COLLINS & CARTER, INC.

ELLICOTT CITY, MARYLAND 21042

(410) 461 - 2855