

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 7/17/2015 **ONSITE SEWAGE DISPOSAL SYSTEM** P 550541  
 APPROVAL DATE: 10/5/2015 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 728 Woodbine Crossing  
 SUBDIVISION: Woodbine Crossing LOT: 11 TAX ID: \_\_\_\_\_  
 CONTRACTOR: WTC Contractors EMAIL: \_\_\_\_\_  
 CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 443-458-7024

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:  MDE  MANUFACTURER:

PROPERTY OWNER: Catonsville Homes EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 11175 Stratfield Court, Marriottsville, MD 21104 PHONE: \_\_\_\_\_

**Norweco TNTLP-**  
 BAT UNIT MODEL: 500/600 PUMP SIZE: \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 6/9/14 DATE RECORDED: 6/18/14

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>88 94'</u>	INLET DEPTH: <u>4.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5'</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: 2x 47' Trenches

ISSUED BY: Hank Oswald ISSUE DATE: 7/17/2015 EXPIRATION DATE: 7/17/2016

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM  
 ELECTRICAL PERMIT ISSUED E 150383
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE 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.**

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH 3 INLET 4.5 BOTTOM 8

NUMBER OF TRENCHES 2

TOTAL LENGTH 96'

ABSORPTION AREA 336 + Sidewalk

DISTRIBUTION BOX LEVEL Leveles

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

See As-Built Drawing On Separate Sheet

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Babylon/Norweco

CAPACITY 1300 GAL

SEAM LOC Top

TANK LID DEPTH 1-1.5'

BAFFLES No

BAFFLE FILTER No

MANHOLE LOC Front, Middle, Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID 7/12/2015

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

DATE ON LID

ROAD NAME

PRE-CONSTRUCTION:

9/3/2015 Tank location staked, Trenches laid out. (BB)

INSTALLATION:

9/8/2015 System installed. Need approval from Norweco representative. (BB)

10/5/2015 Received BAT approval from Norweco representative (Back River Pre-Cast). (BB)

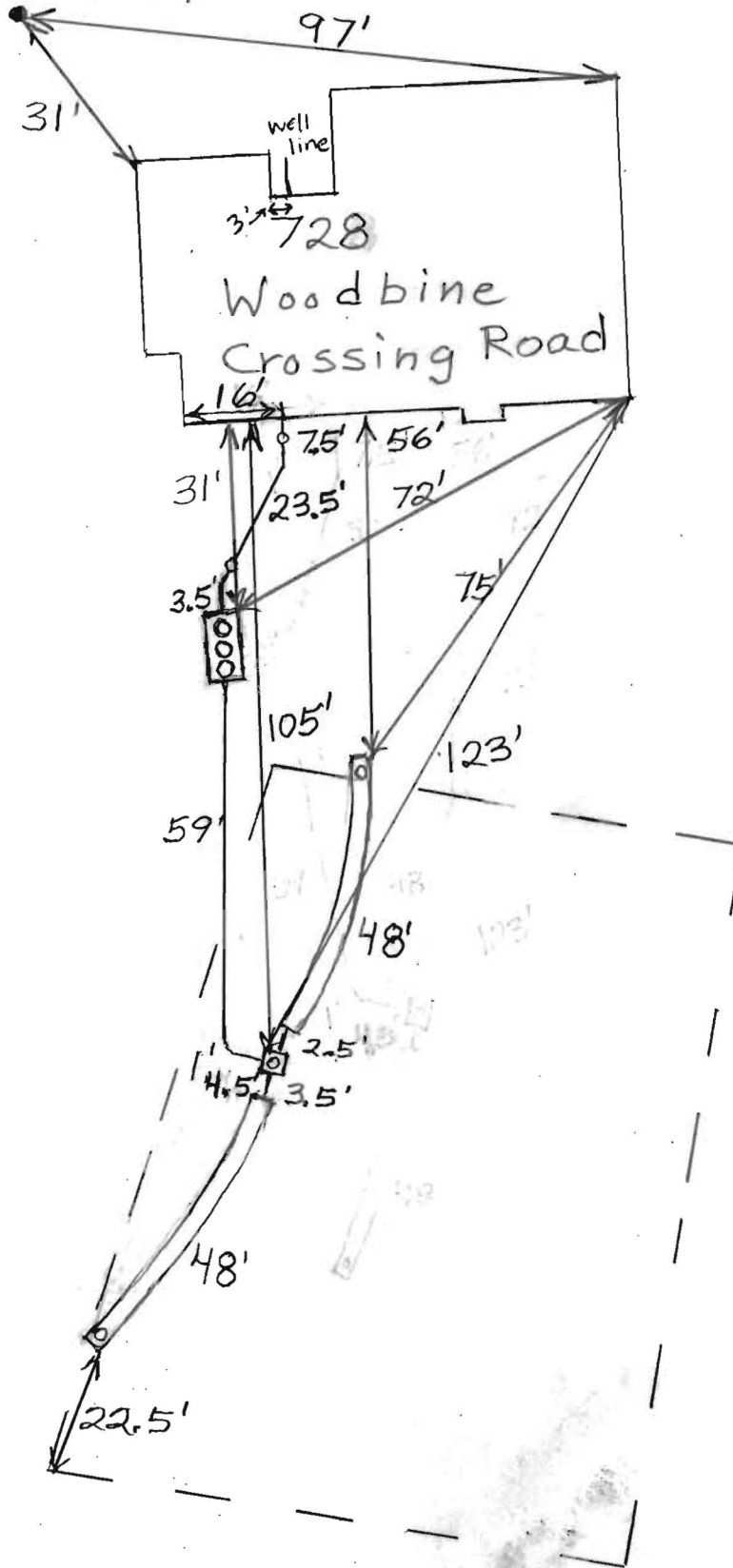
FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

10/5/2015

HO-95-1074



# 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 Singlair TNT 600 GPD Septic Tank installed at 728 Woodbine Crossing Rd., Mt. Airy, MD 21771 on September 8, 2015 was installed according to the manufacture's specifications.

Installer: Walter Coon

Property Owner: Richard Jackson

Permit #



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MATTHEW GECKLE

Vice-President

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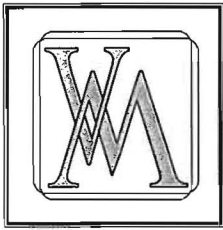


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MATTHEW GECKLE

Vice-President

# B15001245



**VANMAR  
ASSOCIATES, INC.**

**Engineers • Surveyors • Planners**

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890  
(301) 695-0600

(301) 831-5015

(410) 549-2751  
Fax (301) 831-5603

April 17, 2015

Mr. Hank Oswald, L.E.H.S.  
Howard County Health Department  
Bureau of Environmental Health  
718 Columbia Gateway Drive  
Columbia, MD 21046-2147

RE: Lot 11 Site Plan for BAT Installation  
Woodbine Crossing Subdivision

The following is a response to the April 17, 2014 comments.

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1. Add BAT model to the plan for ex. Norweco, Singlair TNT 500

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**Response 1:** BAT model added to the plan.

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2. Add Tax ID # to title box

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**Response 2:** Tax ID# added to the title box.

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3. Revise profile showing a 3 foot cover over unit instead of 4. Also, change "Top Trench" to "Invert Trench" in profile.

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**Response 3:** The profile has been revised to show a 3-ft cover and "top Trench" changed to "Invert Trench" in the profile.

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4. Illustrate the 2 other proposed well sites on plan

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**Response 4:** The 2 other proposed well sites are shown on the plan.

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5. Show first replacement trench on plan

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**Response 5:** The first replacement trench is shown on the plan.

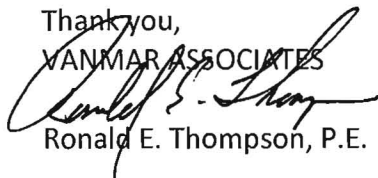
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6. Provide 2 copies of the BAT plan.

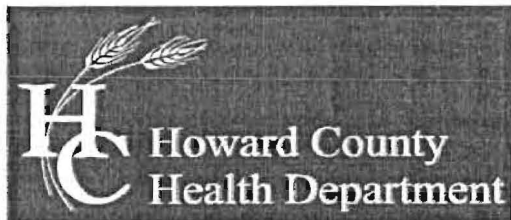
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**Response 6:** Two copies of the BAT Plan are enclosed.

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Thank you,  
VANMAR ASSOCIATES  
  
Ronald E. Thompson, P.E.





## Bureau of Environmental Health

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Twitter: HowardCoHealthDep

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

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

THIS AGREEMENT is made this 28 day of May, 2014, among LDG, Inc., 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 728 Woodbine Crossing, Woodbine, MD 21797 (Lot 11), in the 04 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 1988 Folio 258.

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



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

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

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20  
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M.

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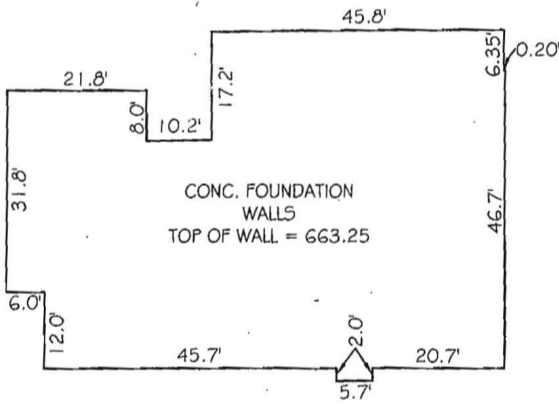
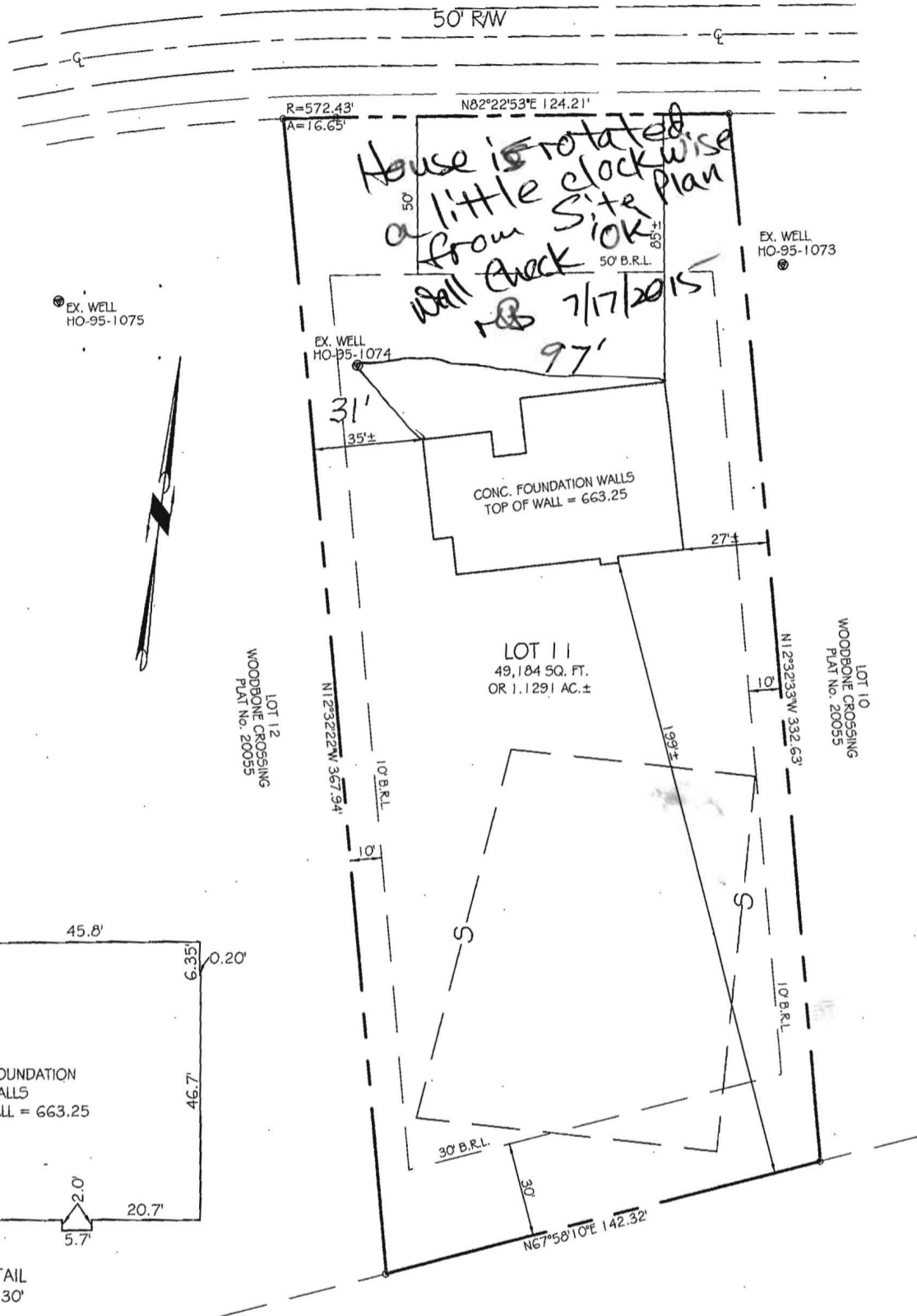
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NOTES:

- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
- 2) BUILDING TIES ARE ±0.5' UNLESS OTHERWISE NOTED.
- 3) TOP OF WALL = 663.25

# WOODBINE CROSSING ROAD



HOUSE DETAIL  
SCALE: 1" = 30'

PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 1266, EXPIRATION DATE JULY 26, 2015, IN ACCORDANCE WITH COMPTON'S CODE, § 2-106.

*Thomas L. Frazier, Jr.*  
 For VanMar Associates, Inc.  
 Thomas L. Frazier, Jr., Professional Land Surveyor  
 Date: 6/19/15

## WALL CHECK DRAWING LOT 11 WOODBINE CROSSING

PLAT No. 20055  
 728 WOODBINE CROSSING ROAD  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 50' JUNE, 2015

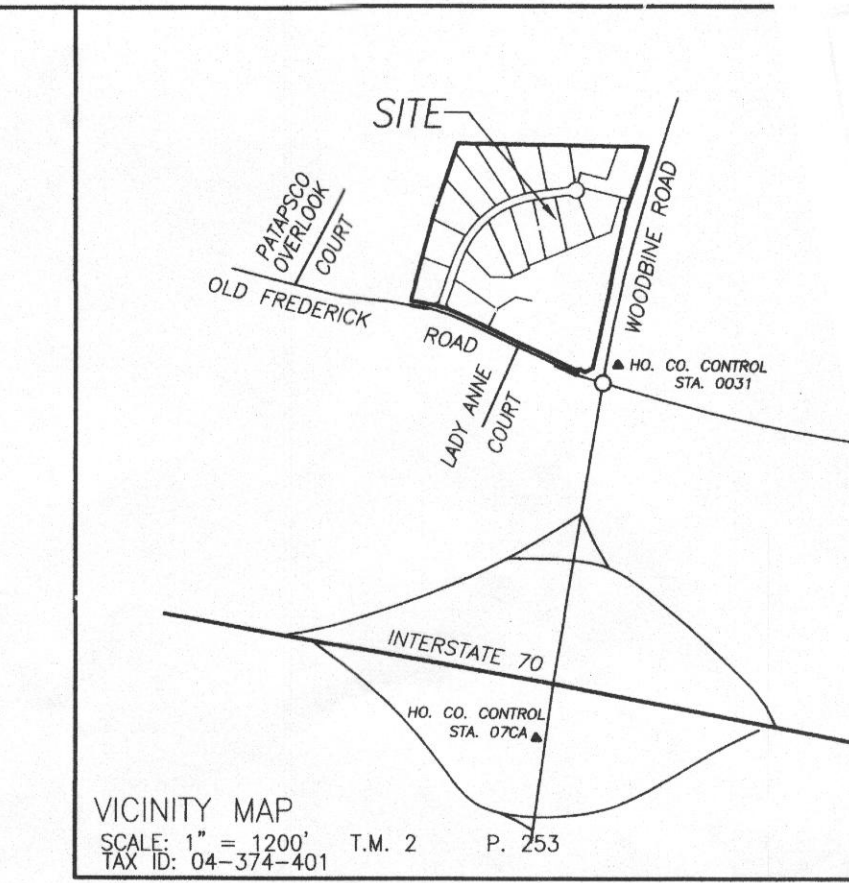
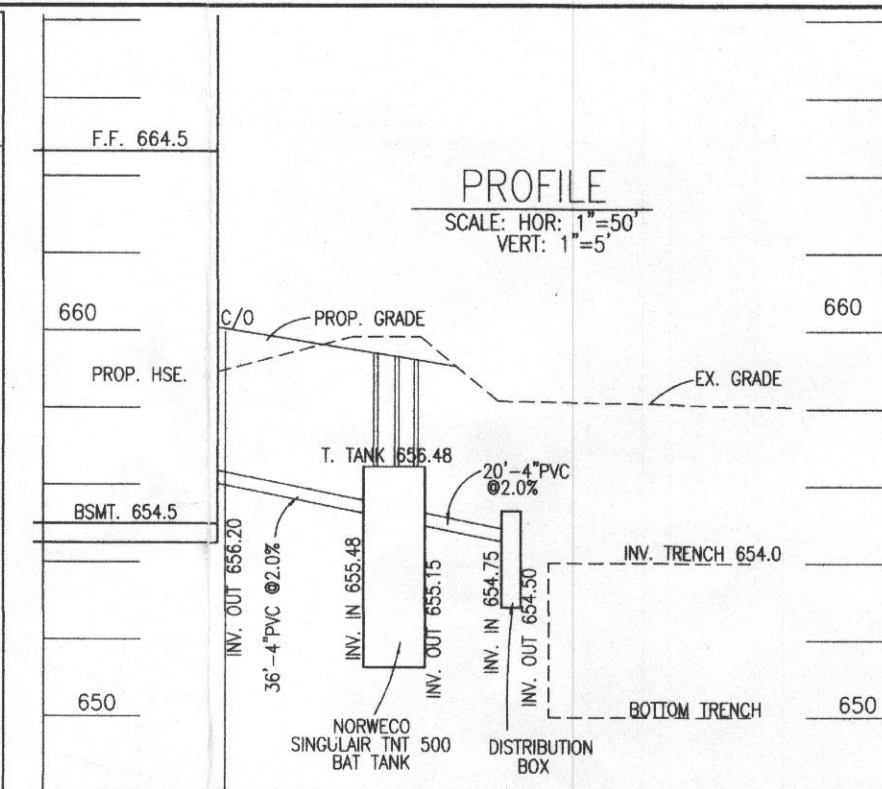
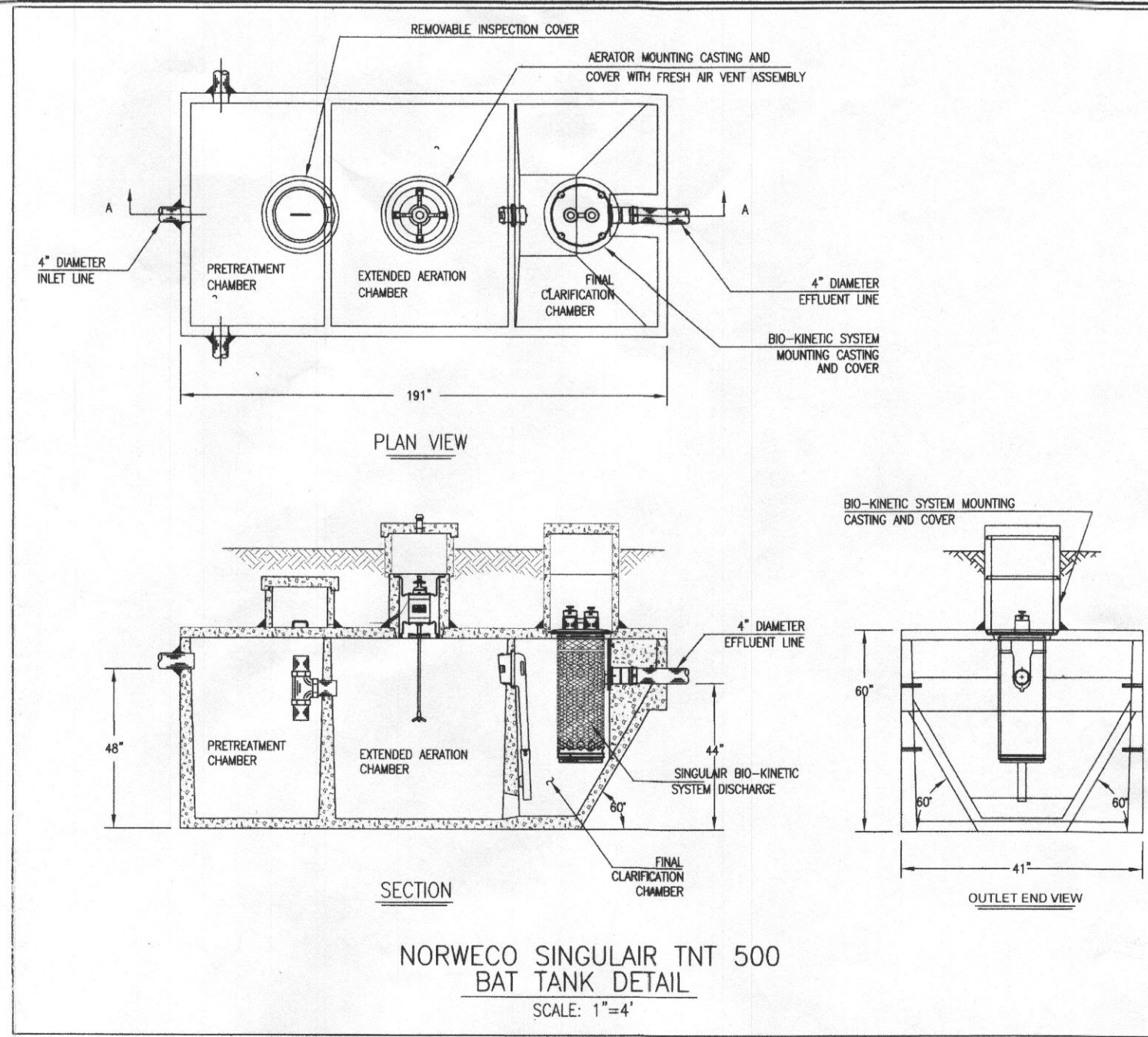
I CERTIFY THIS PLAT TO BE CORRECT, IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



**VANMAR ASSOCIATES, INC.**  
 Engineers Surveyors Planners  
 310 South Main Street Mount Airy, Maryland 21771  
 (301) 829-2890 (301) 831-5015 (410) 549-2751  
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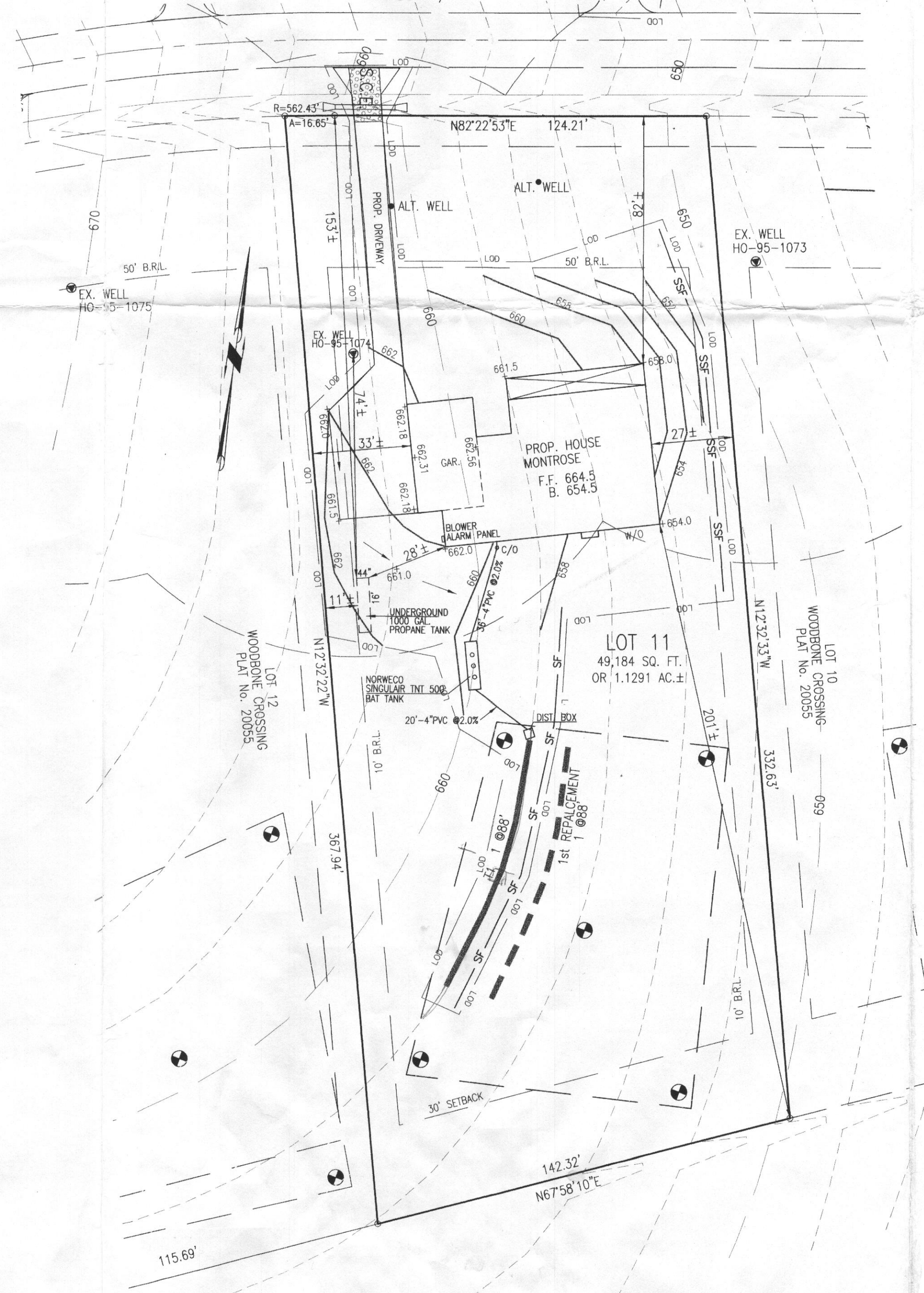
REFERENCE	JOB NO.
PLAT NO. 20055	B4-5416

6/19/2015 10:37:54 AM, 1:1



- GENERAL NOTES:**
- TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
  - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
  - ZONING DISTRICT: RC-DE0
  - LIMIT OF DISTURBANCE (LOD) = 14,900 SQ.FT.
  - THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
  - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY EXISTING WOODBINE CROSSING STORM WATER MANAGEMENT FACILITIES.

**WOODBINE CROSSING ROAD**  
50' R/W



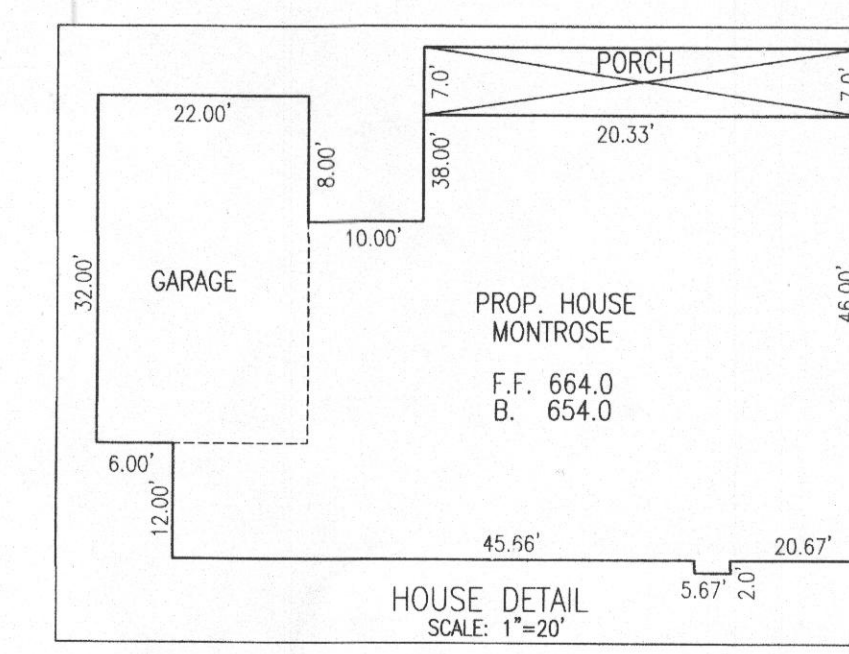
Approved Septic System Plan  
Howard County Health Department  
*Hank Oswald* Sign/LS  
Signature Date

**SEPTIC SYSTEM TRENCH DESIGN**

INITIAL NUMBER OF BEDROOMS : = 5  
APPLICATION RATE = 1.2 GPD / sq.ft.  
DESIGN FLOW: 150 GPD X 4 BEDROOMS = 750 GPD / sq.ft.  
750 GPD / 1.2 GPD/sq.ft. = 625 sq.ft.  
625 sq.ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH  
208 LF TRENCH X 0.42 REDUCTION CREDIT = 88 LF TRENCH  
TRENCH 1 (T1) EX. GRD=658.0 - INV. TRENCH=654.0 - B. TRENCH=

1st REPLACEMENT  
APPLICATION RATE = 1.2 GPD / sq.ft.  
DESIGN FLOW: 150 GPD X 5 BEDROOMS = 750 GPD / sq.ft.  
750 GPD / 1.2 GPD/sq.ft. = 625 sq.ft.  
625 sq.ft. / 3 ft. WIDE TRENCH = 208 LF TRENCH  
208 LF TRENCH X 0.42 REDUCTION CREDIT = 88 LF TRENCH

- BAT SITE PLAN NOTES:**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - MAXIMUM COVER OVER THE BAT PER MANUFACTURER'S SPECIFICATION IS 3 FEET.
  - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND TYPE OF BAT INSTALLED.
  - ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICAL.
  - AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
  - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF INSTALLATION.



OWNER:  
LDC INC.  
LEE PLAZA, SUITE 200  
8601 GEORGIA AVENUE  
SILVER SPRING, MD. 20910  
301-588-7000

DEVELOPER:  
CATONSVILLE HOMES  
11175 STRATFIELD CT.  
MARRIOTTVILLE, MD. 21104  
410-442-2211

DATE	REVISIONS
05/07/15	N6 BEDROOMS, SUPER SILT FENCE ADDED

PROFESSIONAL CERTIFICATION  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 9-18-15.

**PLOT PLAN**  
SITE PLAN FOR BAT TECHNOLOGY  
LOT 11  
**WOODBINE CROSSING**  
PLAT No. 20055  
TAX ID: 04-374-401  
728 WOODBINE CROSSING ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30'  
MARCH, 2015

**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown

**DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE**

**CONSTRUCTION SPECIFICATIONS:**

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SEE. USE MINIMUM LENGTH OF 50 FEET (40 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SEE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SEE UNDER THE ENTRANCE. MAINTAIN PROPER SLOPE. PRETECT PIPE INSTALLED THROUGH THE SEE WITH A MOUNTABLE BERM WITH 4" SLOPE AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SEE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SEE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SEE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITION DEMAND TO MAINTAIN CLEAR SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY MUCKING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

**DETAIL E-1 SILT FENCE**

**CONSTRUCTION SPECIFICATIONS:**

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.085 INCH WALL THICKNESS AND 36 INCH POST LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (1 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WITH RIGGERS DEVELOP IN FENCE OR WHEN SEDIMENT REACHES TOP OF FENCE HEIGHT REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

**DETAIL E-3 SUPER SILT FENCE**

**CONSTRUCTION SPECIFICATIONS:**

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