

**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: 12/22/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 557491

APPROVAL DATE: \_\_\_\_\_ **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 11921 Northern Bell Way

SUBDIVISION: Greenberry LOT: 19 TAX ID: 05-598682

CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road PHONE: 410-596-3618

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:  MDE  MANUFACTURER:

PROPERTY OWNER: NVR Inc. EMAIL: \_\_\_\_\_

OWNER ADDRESS: 9720 Patuxent Woods Road PHONE: 410-379-5956

BAT UNIT MODEL: Hoot 600BNR PUMP SIZE: 0.75 PUMP TANK CAPACITY: 1500 gal

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 10/1/15 DATE RECORDED: 10/1/15

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

|           |   |  |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>172</u>          | INLET DEPTH: <u>3.5</u>                    |
|           | TRENCH WIDTH: <u>3</u>                    | MAXIMUM BOTTOM DEPTH: <u>6</u>             |
|           | MINIMUM SPACE BETWEEN TRENCHES: <u>10</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</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: SHC is about 100 feet long: Install cleanouts as needed  
3" F.M. 1 1/2" laterals. UPPER LATERAL  
3" manifold. 5/16" holes T.1 T.2 8 port./laterals  
LOWER LATERALS T.3/T.4 9 port./laterals

ISSUED BY: Robert Bricker ISSUE DATE: 12/22/15 EXPIRATION DATE: 12/22/16

- 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 15006816
- 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

3/17/16 Need 4" PVC pipe around lateral turnups. No power to alarm. (SC) 3/17/16 Electrician not able to get both pump + alarm working while on site - check both. Mike sample on site to do Hoot startup. (SC) 3/21/16 Pump + alarm work. (SC)

See Separate Plan for As-Built

3/28/16 Hoot startup received. Need 4" caps to protect lateral turnups. (SC)

ROAD NAME

TRENCH/DRAINFIELD DATA

| WIDTH                   | INLET | BOTTOM         |
|-------------------------|-------|----------------|
| 3'                      | 3.5'  | 6'             |
| NUMBER OF TRENCHES      |       | 2              |
| TOTAL LENGTH            |       | 172'           |
| ABSORPTION AREA         |       | 5/6 + Sidewall |
| DISTRIBUTION BOX LEVEL  |       | N/A            |
| DISTRIBUTION BOX BAFFLE |       | N/A            |
| DISTRIBUTION BOX PORT   |       | N/A            |

SEPTIC TANK DATA

|                     |            |
|---------------------|------------|
| SEPTIC TANK I LEVEL | Yes        |
| MANUFACTURER        | Hoot/Mayer |
| CAPACITY            | ~2000 GAL  |
| SEAM LOC            | Top        |
| TANK LID DEPTH      | 2.5'-3'    |
| BAFFLES             | Front      |
| BAFFLE FILTER       | No         |
| MANHOLE LOC         | Front      |
| 6" PORT LOC         | None       |
| WATERTIGHT TEST     | No         |
| SLOTTED             | N/A        |
| DATE ON LID         | Dry        |

Hoot Tank

|                        |              |
|------------------------|--------------|
| PUMP/SEPTIC TANK LEVEL | Yes          |
| MANUFACTURER           | Hoot/Mayer   |
| CAPACITY               | 1500 GAL     |
| SEAM LOC               | Top          |
| TANK LID DEPTH         | 1.5'-2.5'    |
| BAFFLES                | No           |
| BAFFLE FILTER          | No           |
| MANHOLE LOC            | Front + Rear |
| 6" PORT LOC            | None         |
| WATERTIGHT TEST        | No           |
| SLOTTED                | No           |
| DATE ON LID            | Dry          |

PRE-CONSTRUCTION:

2/18/16 SRA + BAT unit loc staked per plan. LFD design - adjustments made. Reduced # of holes as indicated. 4 laterals not 2. Trade spec's 'OK'. Need lateral stake out. Shot elevations on upper SRA. Slight drop off (1/6") on west side of septic Area (KWD)

INSTALLATION:

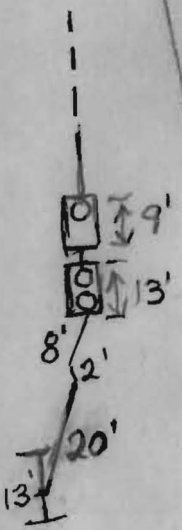
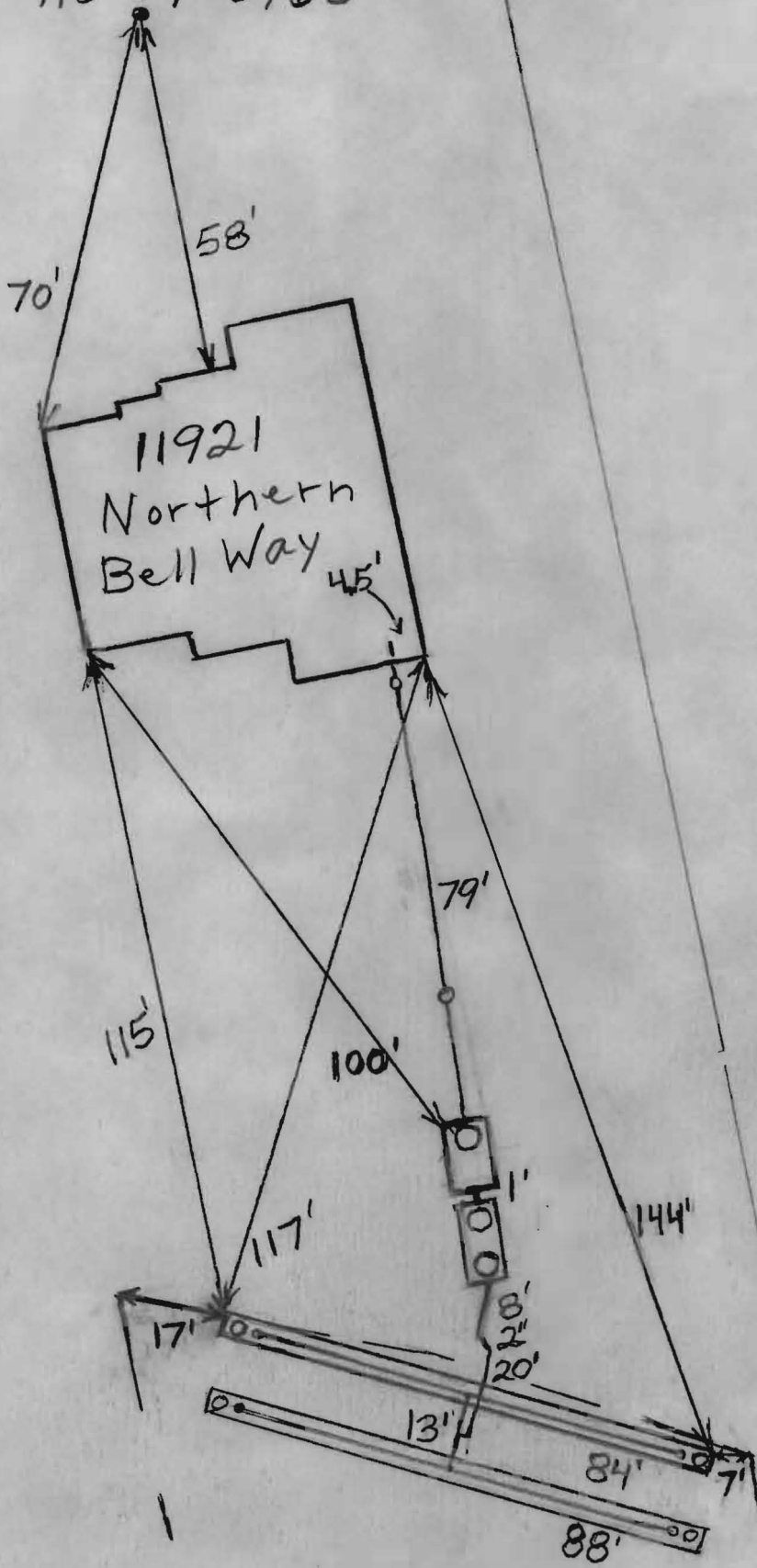
2/22/16 Tanks being set, shot laterals elevations. OFF by only 3-4" on left side. Adjust as needed. Hole # changed for each lateral. Use WE series 1/2 HP pump. (KWD) 2/29/2016 Bottom dual trench stoned with laterals. Lateral hole spacing looks good. Trenches are being installed at staked locations. House connection made. (BB) 3/1/2016 (AM) Top trench done. Hole spacing good. Tricore main installed. Wiring pump up 3/1/2016 (PM) Pump working. Two to three feet of distal head in turn-ups. Need to

FINAL INSPECTOR

DATE OF APPROVAL

test alarm. Need Hoot inspector approval. (BB)

H0-14-0165



# Letter of Satisfaction Hoot System Installation

Address of Property: 11921 Northern Bell Way

Clarksville, MD. 21029

Date of Final Inspection: 3/17/16

Installer: South Carroll Backhoe Service

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

N. Michael Dangel

Name of Inspector  
Mayer Bros., Inc.

Note: Discharge Pump + Panel not supplied or  
warranted By Mayer Bros., Inc.

PH: 410-796-1434  
FX: 410-796-1438

WBE

[info@mayerprecast.com](mailto:info@mayerprecast.com)  
[www.mayerprecast.com](http://www.mayerprecast.com)

Grease Interceptors, HOOT Aerobic Treatment Units, Septic Tanks, Holding Tanks, Bench Barrier, Water Meter Vaults,  
Sectional Valve Units, Top Slabs, Curb Heads, Curb Bumpers, Custom Precast Products

## Wastewater

### APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

### SPECIFICATIONS

#### Pump

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

#### MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 1/2 - 1 1/2 HP models.
- Class F insulation on 2 HP models.

#### Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

- SJTOW or STOW severe duty oil and water resistant power cords.
- 1/2 - 1 HP models have NEMA three prong grounding plugs.
- 1 1/2 HP and larger units have bare lead cord ends.

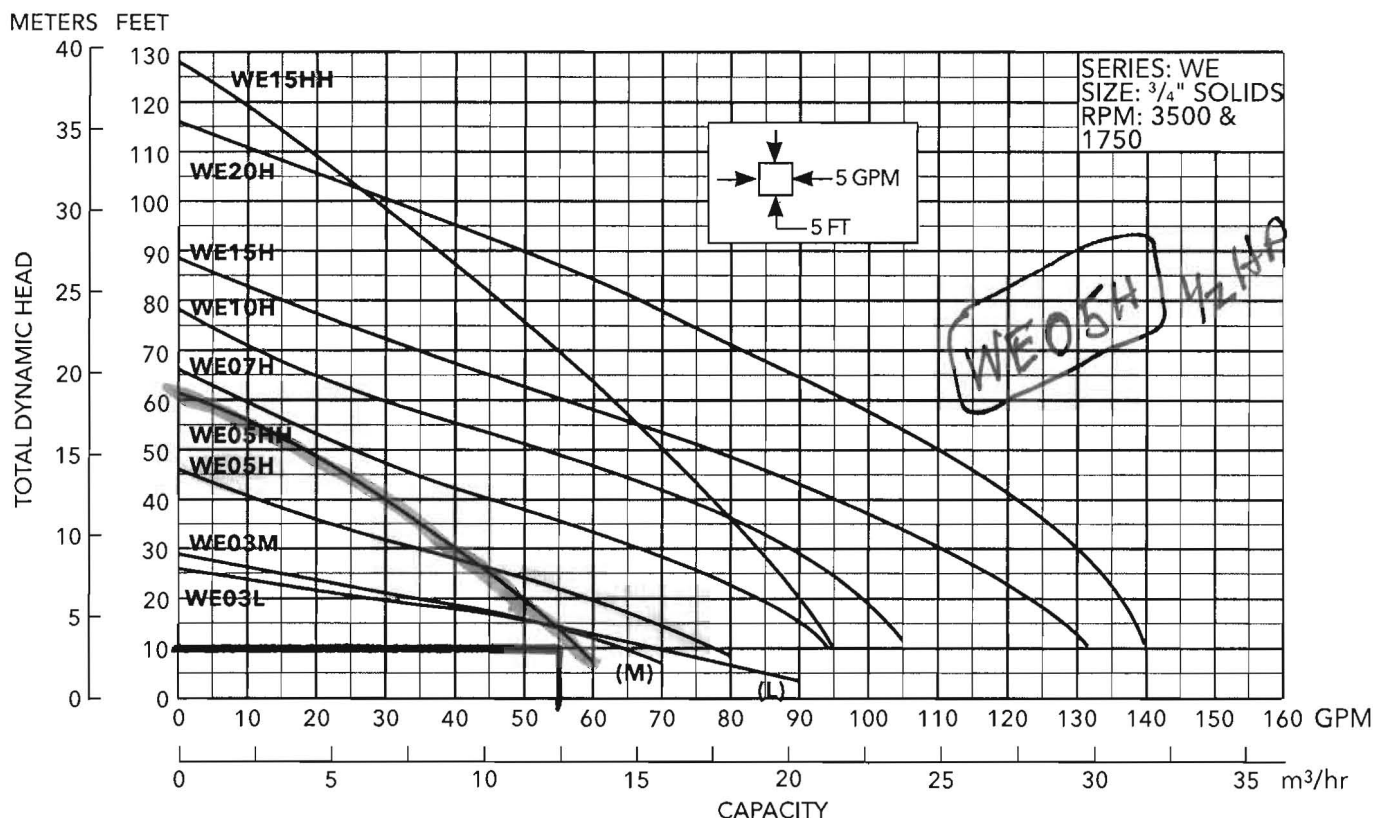
#### Three phase (60 Hz):

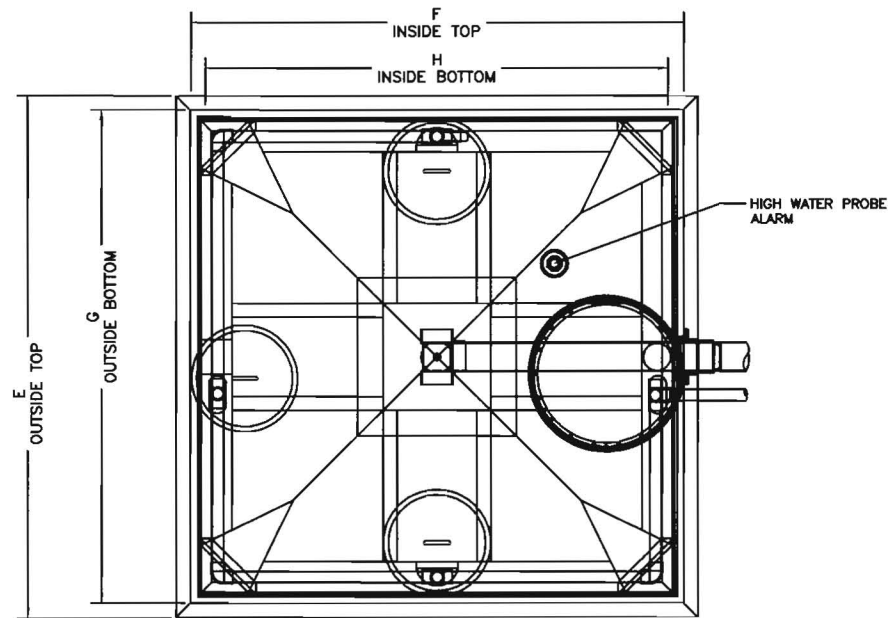
- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

#### AGENCY LISTINGS

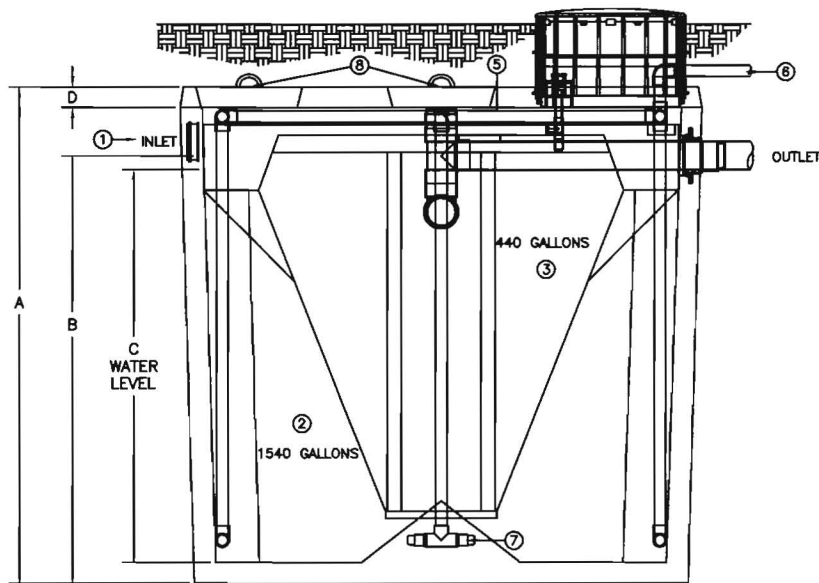


Tested to UL 778 and CSA 22.2 108 Standards  
By Canadian Standards Association File #LR38549





PLAN VIEW



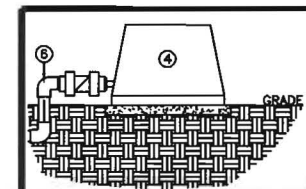
SIDE ELEVATION

| CRITICAL DIMENSIONS |        |
|---------------------|--------|
| A                   | 83.50" |
| B                   | 71.88" |
| C                   | 67.00" |
| D                   | 4"     |
| E                   | 89.00" |
| F                   | 84.00" |
| G                   | 85.50" |
| H                   | 79.50" |

**THE H-SERIES HOOT AEROBIC TREATMENT SYSTEM**

- 1) SEPARATE PRETREATMENT TANK REQUIRED (MIN. 800 GALLONS, PROVIDED THROUGH HOOT DISTRIBUTOR)- WHERE ANAEROBIC DIGESTION OCCURS AND STORAGE FOR NON-BIODEGRADABLE MATERIALS.
- 2) AERATION CHAMBER- WHERE AIR IS INTRODUCED INTO SEWAGE FOR DIGESTION.
- 3) CLARIFIER- A STILL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.
- 4) TROY AIR LINEAR AIR BLOWER- LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSED ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE.
- 5) AIR MANIFOLD- DELIVERS THE AIR FROM THE LINE TO THE STONES FOR DIFFUSION INTO THE SEWAGE.
- 6) AERATION LINE- DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.
- 7) AERATION STONE- AIR IS FINELY DIFFUSED FROM THE STONE INTO THE AERATION CHAMBER.
- 8) 15" COVERS- PROVIDE ASSEMBLY PORT ACCESS INSIDE OF THE SYSTEM. (NOT REQUIRED FOR REGULAR SERVICE)

**TROY AIR BLOWER**



**HOOT SYSTEMS, LLC**

www.hootsystems.com

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|   |                 |                 |                  |
|---|-----------------|-----------------|------------------|
| DESCRIPTION:<br>1000 GPD GRAVITY DISCHARGE SYSTEM<br>HOOT SYSTEMS H-1200 (MBI 4") |                 |                 | PART #           |
| DATE:<br>03-28-2014   | DRAWN BY:<br>AY | CHECK BY:<br>RS | SCALE:<br>N.T.S. |

H-1000

### MODELS

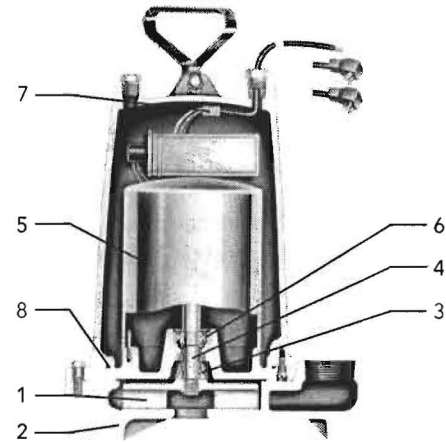
| Order Number | HP   | Phase | Volts | RPM  | Impeller Diameter (in.) | Maximum Amps | Locked Rotor Amps | KVA Code | Full Load Efficiency % | Resistance |           | Power Cable Size | Weight (lbs.) |      |      |      |      |      |     |      |      |     |
|--------------|------|-------|-------|------|-------------------------|--------------|-------------------|----------|------------------------|------------|-----------|------------------|---------------|------|------|------|------|------|-----|------|------|-----|
|              |      |       |       |      |                         |              |                   |          |                        | Start      | Line-Line |                  |               |      |      |      |      |      |     |      |      |     |
| WE0311L      | 0.33 | 1     | 115   | 1750 | 5.38                    | 10.7         | 30.0              | M        | 54                     | 11.9       | 1.7       | 16/3             | 56            |      |      |      |      |      |     |      |      |     |
| WE0318L      |      |       | 208   |      |                         | 6.8          | 19.5              | K        | 51                     | 9.1        | 4.2       |                  |               |      |      |      |      |      |     |      |      |     |
| WE0312L      |      |       | 230   |      |                         | 4.9          | 14.1              | L        | 53                     | 14.5       | 8.0       |                  |               |      |      |      |      |      |     |      |      |     |
| WE0311M      |      |       | 115   |      |                         | 10.7         | 30.0              | M        | 54                     | 11.9       | 1.7       |                  |               |      |      |      |      |      |     |      |      |     |
| WE0318M      |      |       | 208   |      |                         | 6.8          | 19.5              | K        | 51                     | 9.1        | 4.2       |                  |               |      |      |      |      |      |     |      |      |     |
| WE0312M      |      |       | 230   |      |                         | 4.9          | 14.1              | L        | 53                     | 14.5       | 8.0       |                  |               |      |      |      |      |      |     |      |      |     |
| WE0511H      | 0.5  | 1     | 115   | 3450 | 3.56                    | 14.5         | 46.0              | M        | 54                     | 7.5        | 1.0       | 14/3             | 60            |      |      |      |      |      |     |      |      |     |
| WE0518H      |      |       | 208   |      |                         | 8.1          | 31.0              | K        | 68                     | 9.7        | 2.4       | 16/3             | 60            |      |      |      |      |      |     |      |      |     |
| WE0512H      |      |       | 230   |      |                         | 7.3          | 34.5              | M        | 53                     | 9.6        | 4.0       | 14/4             | 60            |      |      |      |      |      |     |      |      |     |
| WE0538H      |      |       | 3     |      |                         | 200          | 4.9               | 22.6     | R                      | 68         | NA        |                  |               | 3.8  |      |      |      |      |     |      |      |     |
| WE0532H      |      |       |       |      |                         | 230          | 3.3               | 18.8     | R                      | 70         | NA        |                  |               | 5.8  |      |      |      |      |     |      |      |     |
| WE0534H      |      |       |       |      |                         | 460          | 1.7               | 9.4      | R                      | 70         | NA        | 23.2             |               |      |      |      |      |      |     |      |      |     |
| WE0537H      |      | 575   | 1.4   |      | 7.5                     | R            | 62                | NA       | 35.3                   | 14/3       | 60        |                  |               |      |      |      |      |      |     |      |      |     |
| WE0511HH     |      | 1     | 115   |      | 14.5                    | 46.0         | M                 | 54       | 7.5                    |            |           | 1.0              |               |      |      |      |      |      |     |      |      |     |
| WE0518HH     |      |       | 208   |      | 8.1                     | 31.0         | K                 | 68       | 9.7                    |            |           | 2.4              |               |      |      |      |      |      |     |      |      |     |
| WE0512HH     |      |       | 230   |      | 7.3                     | 34.5         | M                 | 53       | 9.6                    |            |           | 4.0              |               |      |      |      |      |      |     |      |      |     |
| WE0538HH     |      | 3     | 200   |      | 4.9                     | 22.6         | R                 | 68       | NA                     |            |           | 3.8              | 14/4          | 60   |      |      |      |      |     |      |      |     |
| WE0532HH     |      |       | 230   |      | 3.6                     | 18.8         | R                 | 70       | NA                     |            |           | 5.8              |               |      |      |      |      |      |     |      |      |     |
| WE0534HH     |      |       | 460   |      | 1.8                     | 9.4          | R                 | 70       | NA                     | 23.2       |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE0537HH     |      | 575   | 1.5   |      | 7.5                     | R            | 62                | NA       | 35.3                   | 14/3       | 70        |                  |               |      |      |      |      |      |     |      |      |     |
| WE0718H      |      | 0.75  | 1     |      | 208                     | 4.06         | 11.0              | 31.0     | K                      |            |           | 68               | 9.7           | 2.4  | 14/3 | 70   |      |      |     |      |      |     |
| WE0712H      |      |       |       |      | 230                     |              |                   |          |                        |            |           |                  |               |      |      |      | 10.0 | 27.5 | J   | 65   | 12.2 | 2.7 |
| WE0738H      |      |       | 3     |      | 200                     |              |                   |          |                        |            |           |                  |               |      |      |      | 6.2  | 20.6 | L   | 64   | NA   | 5.7 |
| WE0732H      |      |       |       |      | 230                     |              |                   |          |                        |            |           |                  |               |      |      |      | 5.4  | 15.7 | K   | 68   | NA   | 8.6 |
| WE0734H      | 460  |       |       | 2.7  | 7.9                     |              |                   |          |                        |            |           |                  |               |      |      |      | K    | 68   | NA  | 34.2 |      |     |
| WE0737H      | 575  |       |       | 2.2  | 9.9                     |              |                   |          |                        | L          | 78        |                  |               |      |      |      | NA   | 26.5 |     |      |      |     |
| WE1018H      | 1    | 1     | 208   | 4.44 | 14.0                    | 59.0         | K                 | 68       | 9.3                    | 1.1        | 14/3      | 70               |               |      |      |      |      |      |     |      |      |     |
| WE1012H      |      |       | 230   |      |                         |              |                   |          |                        |            |           |                  | 12.5          | 36.2 | J    | 69   | 10.3 | 2.1  |     |      |      |     |
| WE1038H      |      | 3     | 200   |      |                         |              |                   |          |                        |            |           |                  | 8.1           | 37.6 | M    | 77   | NA   | 2.7  |     |      |      |     |
| WE1032H      |      |       | 230   |      |                         |              |                   |          |                        |            |           |                  | 7.0           | 24.1 | L    | 79   | NA   | 4.1  |     |      |      |     |
| WE1034H      |      |       | 460   |      |                         |              |                   |          |                        |            |           |                  | 3.5           | 12.1 | L    | 79   | NA   | 16.2 |     |      |      |     |
| WE1037H      |      |       | 575   |      |                         |              |                   |          |                        |            |           |                  | 2.8           | 9.9  | L    | 78   | NA   | 26.5 |     |      |      |     |
| WE1518H      | 1.5  | 1     | 208   | 4.56 | 17.5                    | 59.0         | K                 | 68       | 9.3                    | 1.1        | 14/3      | 80               |               |      |      |      |      |      |     |      |      |     |
| WE1512H      |      |       | 230   |      |                         |              |                   |          |                        |            |           |                  | 15.7          | 50.0 | H    | 68   | 11.3 | 1.6  |     |      |      |     |
| WE1538H      |      |       | 3     |      |                         |              |                   |          |                        |            |           |                  | 200           | 10.6 | 40.6 | K    | 79   | NA   | 1.9 |      |      |     |
| WE1532H      |      | 230   |       |      |                         |              |                   |          |                        |            |           |                  | 9.2           | 31.7 | K    | 78   | NA   | 2.9  |     |      |      |     |
| WE1534H      |      | 460   |       |      |                         |              |                   |          |                        |            |           |                  | 4.6           | 15.9 | K    | 78   | NA   | 11.4 |     |      |      |     |
| WE1537H      |      | 575   | 3.7   |      |                         |              |                   |          |                        |            |           |                  | 13.1          | K    | 75   | NA   | 16.9 | 14/4 | 80  |      |      |     |
| WE1518HH     |      | 1     | 208   | 17.5 | 59.0                    | K            | 68                | 9.3      | 1.1                    |            |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE1512HH     |      |       | 230   | 15.7 | 50.0                    | H            | 68                | 11.3     | 1.6                    |            |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE1538HH     |      |       | 3     | 200  | 10.6                    | 40.6         | K                 | 79       | NA                     | 1.9        |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE1532HH     |      | 230   |       | 9.2  | 31.7                    | K            | 78                | NA       | 2.9                    |            |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE1534HH     |      | 460   |       | 4.6  | 15.9                    | K            | 78                | NA       | 11.4                   |            |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE1537HH     |      | 575   | 3.7   | 13.1 | K                       | 75           | NA                | 16.9     | 14/3                   | 83         |           |                  |               |      |      |      |      |      |     |      |      |     |
| WE2012H      | 2    | 1     | 230   | 5.38 | 18.0                    | 49.6         | F                 | 78       |                        |            | 3.2       | 1.2              | 14/3          | 83   |      |      |      |      |     |      |      |     |
| WE2038H      |      |       | 200   |      |                         |              |                   |          |                        |            |           |                  |               |      | 12.0 | 42.4 | K    | 78   | NA  | 1.7  |      |     |
| WE2032H      |      | 3     | 230   |      |                         |              |                   |          |                        |            |           |                  |               |      | 11.6 | 42.4 | K    | 78   | NA  | 1.7  |      |     |
| WE2034H      |      |       | 460   |      |                         |              |                   |          |                        |            |           |                  |               |      | 5.8  | 21.2 | K    | 78   | NA  | 6.6  |      |     |
| WE2037H      |      |       | 575   |      |                         |              |                   |          |                        |            |           |                  |               |      | 4.7  | 16.3 | L    | 78   | NA  | 10.5 |      |     |

## PERFORMANCE RATINGS (gallons per minute)

| Order No.                | WE-03L | WE-03M | WE-05H | WE-07H | WE-10H | WE-15H | WE-05HH | WE-15HH | WE-20H |      |
|--------------------------|--------|--------|--------|--------|--------|--------|---------|---------|--------|------|
| Total Head Feet of Water | HP     | 1/3    | 1/3    | 1/2    | 3/4    | 1      | 1 1/2   | 1/2     | 1 1/2  | 2    |
|                          | RPM    | 1750   | 1750   | 3500   | 3500   | 3500   | 3500    | 3500    | 3500   | 3500 |
|                          | 5      | 86     | -      | -      | -      | -      | -       | -       | -      | -    |
|                          | 10     | 70     | 63     | 78     | 94     | -      | -       | 58      | 95     | -    |
|                          | 15     | 52     | 52     | 70     | 90     | 103    | 128     | 53      | 93     | 138  |
|                          | 20     | 27     | 35     | 60     | 83     | 98     | 123     | 49      | 90     | 136  |
|                          | 25     | 5      | 15     | 48     | 76     | 94     | 117     | 45      | 87     | 133  |
|                          | 30     | -      | -      | 35     | 67     | 88     | 110     | 40      | 83     | 130  |
|                          | 35     | -      | -      | 22     | 57     | 82     | 103     | 35      | 80     | 126  |
|                          | 40     | -      | -      | -      | 45     | 74     | 95      | 30      | 77     | 121  |
|                          | 45     | -      | -      | -      | 35     | 64     | 86      | 25      | 74     | 116  |
|                          | 50     | -      | -      | -      | 25     | 53     | 77      | -       | 70     | 110  |
|                          | 55     | -      | -      | -      | -      | 40     | 67      | -       | 66     | 103  |
|                          | 60     | -      | -      | -      | -      | 30     | 56      | -       | 63     | 96   |
|                          | 65     | -      | -      | -      | -      | 20     | 45      | -       | 58     | 89   |
|                          | 70     | -      | -      | -      | -      | -      | 35      | -       | 55     | 81   |
|                          | 75     | -      | -      | -      | -      | -      | 25      | -       | 51     | 74   |
|                          | 80     | -      | -      | -      | -      | -      | -       | -       | 47     | 66   |
|                          | 90     | -      | -      | -      | -      | -      | -       | -       | 37     | 49   |
|                          | 100    | -      | -      | -      | -      | -      | -       | -       | 28     | 30   |

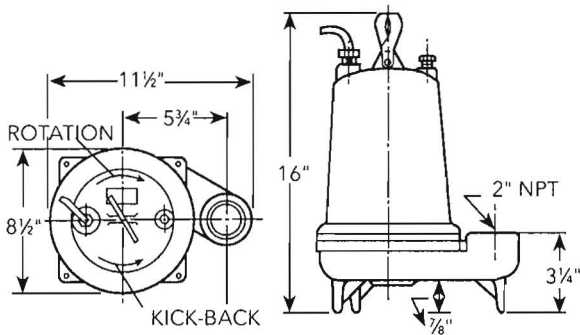
## COMPONENTS

| Item No. | Description     |
|----------|-----------------|
| 1        | Impeller        |
| 2        | Casing          |
| 3        | Mechanical Seal |
| 4        | Motor Shaft     |
| 5        | Motor           |
| 6        | Ball Bearings   |
| 7        | Power Cable     |
| 8        | Casing O-Ring   |



## DIMENSIONS

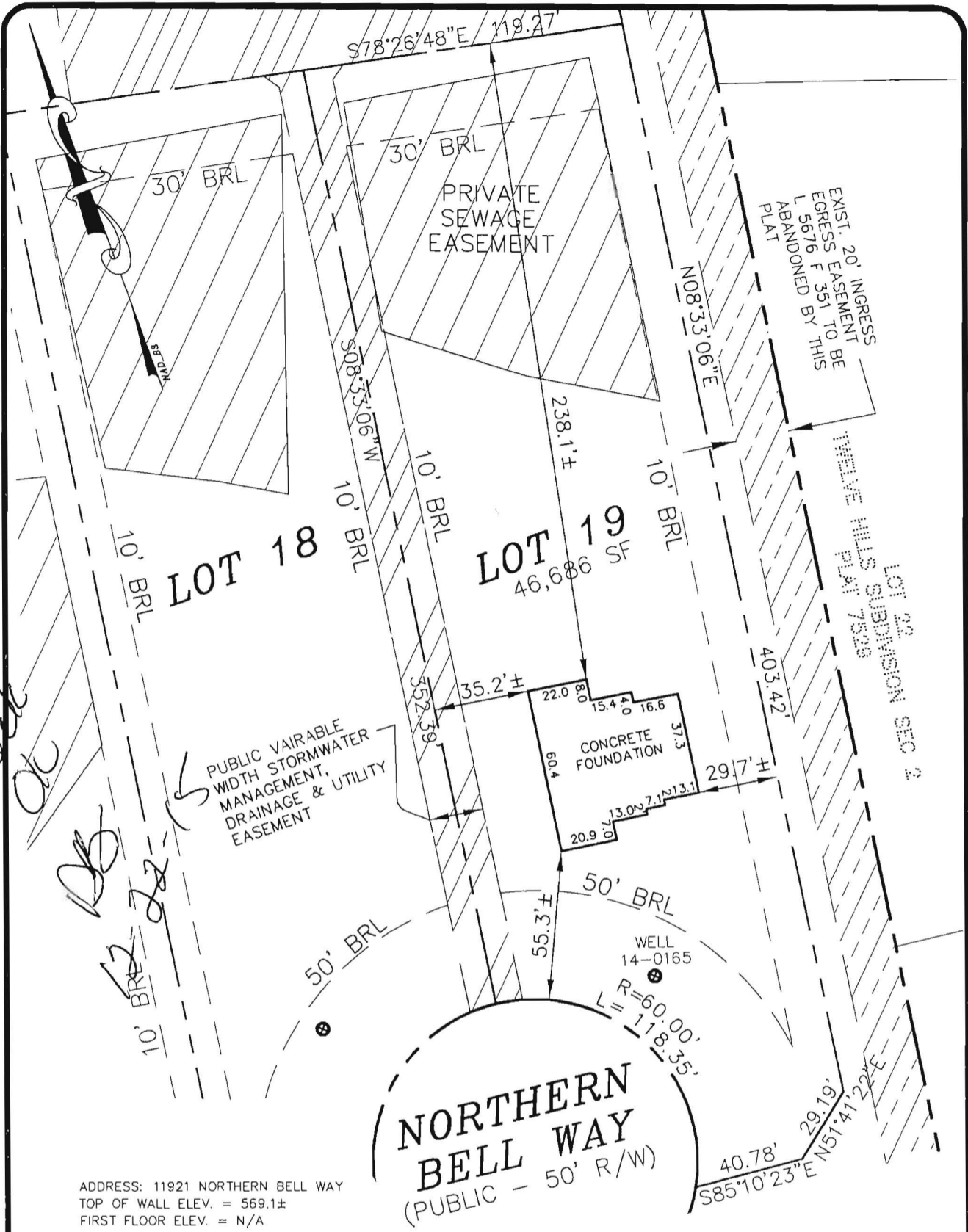
(All dimensions are in inches. Do not use for construction purposes.)



**xylem**  
Let's Solve Water

Xylem, Inc.  
2881 East Bayard Street Ext., Suite A  
Seneca Falls, NY 13148  
Phone: (866) 325-4210  
Fax: (888) 322-5877  
[www.xylem.com/brands/gouldswatertechnology](http://www.xylem.com/brands/gouldswatertechnology)

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*Well Check OK*

ADDRESS: 11921 NORTHERN BELL WAY  
 TOP OF WALL ELEV. = 569.1±  
 FIRST FLOOR ELEV. = N/A

**LOT 19**  
**GREENBERRY**

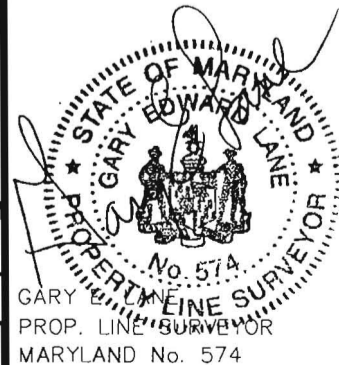
PLATS 23453-23461  
 ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 574, EXPIRATION DATE: 03/21/17.

THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

**MILDENBERG**  
**BOENDER, & ASSOC., INC.**

Engineers Planners Surveyors  
 7350-B Grace Drive, Columbia, MD 21044  
 (410) 997-0296 Balt. (410) 997-0298 Fax.



|                     |                  |                |           |
|---------------------|------------------|----------------|-----------|
| FOUNDATION          | DATE: 12/8/15    | FINAL LOCATION | DATE: N/A |
| DRAWN BY: MES       | CHECKED BY: GEL  | SCALE: 1"=50'  |           |
| PROJECT NO.: 15-005 | LOCATION DRAWING |                |           |

GB-0019



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/hccohealth
Twitter: HowardCoHealthDep

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

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

THIS AGREEMENT is made this 1ST day of OCTOBER 2015 among NVR, 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 11921 NORTHERN BELLEVUE in the 5th 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 Folio PLAT # 23453.

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. The pre-treatment device being installed is HOOT 600.

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

JW 8/8/2014

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.

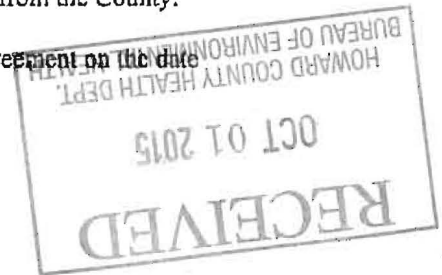
G. This agreement may be voided at any time at the discretion of the County.

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.



Bea Nisan 10/1/2015  
Howard County Health Department

[Signature] 9/16/15  
Owner #1 Signature Date  
NUN FWC.

\_\_\_\_\_  
Owner #2 Signature Date

\_\_\_\_\_  
Owner #1 Print Name

\_\_\_\_\_  
Owner #2 Print Name

Edward Sawicki 8/23/15  
Buyer #1 Signature Date

[Signature] 8/23/15  
Buyer #2 Signature Date

Edward Sawicki  
Buyer #1 Print Name

Kristi Sawicki  
Buyer #2 Print Name

JW R-B/2014

## Bricker, Robert

---

**From:** Maya Mildenberg <maya@mba-eng.com>  
**Sent:** Tuesday, October 27, 2015 1:41 PM  
**To:** Bricker, Robert  
**Cc:** jhikmat@hotmail.com  
**Subject:** RE: Greenberry Lot 19 BAT Plan comments

Can you red-line this plan please?

Thanks

Mildenberg, Boender and Assoc., Inc.  
Maya M. Mildenberg  
Vice President  
7350-B Grace Drive  
Columbia, Maryland 21044  
410-997-0296 (work)  
410-997-0298 (fax)  
240-481-7116(cell)  
[maya@mba-eng.com](mailto:maya@mba-eng.com)

---

**From:** Bricker, Robert [<mailto:RBricker@howardcountymd.gov>]  
**Sent:** Tuesday, October 27, 2015 12:32 PM  
**To:** [maya@mba-eng.com](mailto:maya@mba-eng.com)  
**Cc:** [jhikmat@hotmail.com](mailto:jhikmat@hotmail.com)  
**Subject:** RE: Greenberry Lot 19 BAT Plan comments

Checking the pump performance chart, the WE07 pump will discharge about 94 gallons per minute at 10 feet of head. This makes the Pump Run Time about 1.33 gpm. I can red-line the plan with this correction. It is extremely important that the BAT unit is ordered with the Pump Run Time set as near to the actual time required to discharge the estimated volume.

Robert Bricker, REHS/R.S., L.E.H.S.

---

**From:** Bricker, Robert  
**Sent:** Monday, October 26, 2015 12:31 PM  
**To:** [maya@mba-eng.com](mailto:maya@mba-eng.com)  
**Cc:** [jhikmat@hotmail.com](mailto:jhikmat@hotmail.com)  
**Subject:** Greenberry Lot 19 BAT Plan comments

See attached PDF.

ROBERT BRICKER, REHS/R.S., L.E.H.S.  
ENVIRONMENTAL SANITARIAN II  
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774  
Fax: 410-313-2648

E-mail: [rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov)