

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: 4/27/16 **ONSITE SEWAGE DISPOSAL SYSTEM** P 558/00
 APPROVAL DATE: 8/3/16 (SEC) **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 11917 Northern Bell Way
 SUBDIVISION: Greenberry LOT: 18 TAX ID: 05-598681
 CONTRACTOR: South Carroll Backhoe EMAIL: sbackhoe@comcast.net
 CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 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: 0.5HP PUMP TANK CAPACITY: 750 GAL

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 3/2/16 DATE RECORDED: 3/3/16

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>131</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</u>

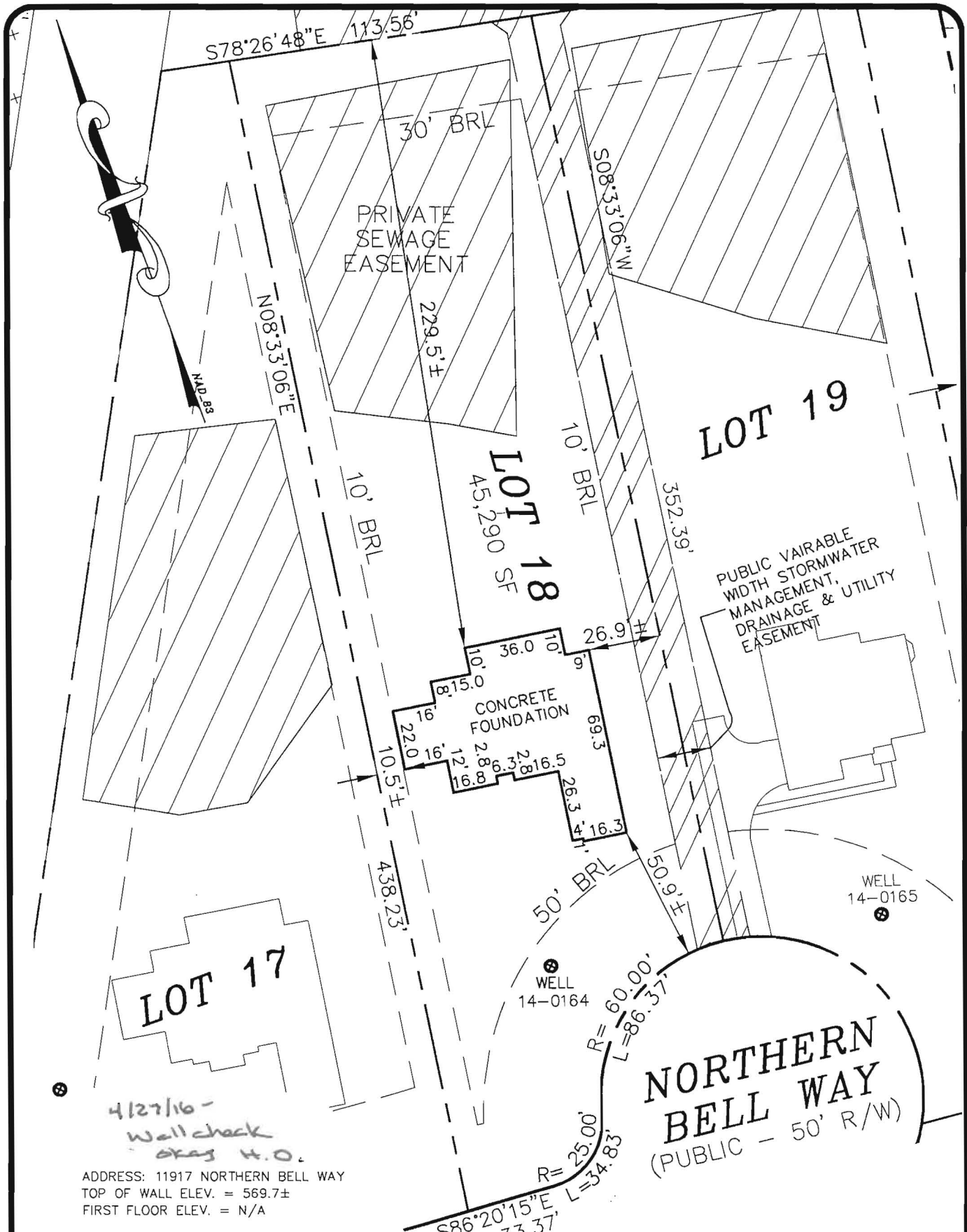
LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: Install a cleanout near foundation and a cleanout at bend in SHC.

ISSUED BY: Robert Bricker ISSUE DATE: 4/27/16 EXPIRATION DATE: 4/27/17

- 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 DOWNGRAIENT 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 16001990
- 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.**



ADDRESS: 11917 NORTHERN BELL WAY
 TOP OF WALL ELEV. = 569.7±
 FIRST FLOOR ELEV. = N/A

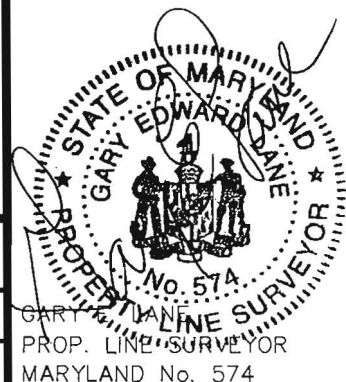
LOT 18
GREENBERRY
 PLATS 23453-23461
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

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: 04/15/16	FINAL LOCATION	DATE: N/A
DRAWN BY: MES	CHECKED BY: GEL	SCALE: 1"=50'	
PROJECT NO.: 15-005	LOCATION DRAWING		

**MAYER BROS., INC.**

Precast Concrete Products
6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 11917 Northern Bell way
Clarksville, MD 21029

Date of Final Inspection: 8/2/16

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,

H. Michel Day

Name of Inspector
Mayer Bros., Inc.

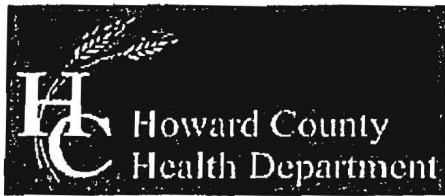
PH: 410-796-1434

WBE

FX: 410-796-1438

www.mayerbrosprecast.com

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



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Facebook: www.facebook.com/hocohealth
 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 25th day of March, 2016, among MARIC MISHRA
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 11917 Northern Bell
Way, Clarks MD 21029, in the S 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 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 HOCT 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.

Paul Nijon 3/2/2016
Howard County Health Department

[Signature] 11/18/16
Owner #1 Signature Date

NVR INC
Owner #1 Print Name

[Signature] 12/31/15
Buyer #1 Signature Date

Mark Mishra
Buyer #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

[Signature] 12/31/2015
Buyer #2 Signature Date

DEEPIKA SHUKLA
Buyer #2 Print Name

Greenberry Lot 18

Clerk of the Circuit Court for
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 20.00

Grantor/Grantee Name: nvr
Reference/Control #: 56

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: nvr
Reference/Control #: 57

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 120.00
Total: 120.00

=====
REV-Check-BOA 120.00
Number : 3025

03/03/2016 09:51 CC13-MH

#5690006 /497/109

Thank you for visiting us today~

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
9/23/13	Low-Pressure
	Distribution System
	installation required
	for all drainfields.
	Design Trench Bottoms
	as shallow as reasonable.
	R Bricker

SOILS TABLE (WITHIN LOD)

SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20

PRIMARY TRENCH DATA			
TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
1	559.50	555.50	553.00
2	559.00	555.00	552.50

SEPTIC TRENCH SIZING

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF REQUIRED TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF REQUIRED TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	1.2	750	625	3	208.3	4.5	6.5	0.62	129.2	10.0'	2	65
SECONDARY	1.2	750	625	3	208.3	5.5	7.5	0.62	129.2	10.0'	2	65
TERTIARY	1.2	750	625	3	208.3	5.5	7.5	0.62	129.2	10.0'	2	65

LOW PRESSURE DOSING SYSTEM - INITIAL INSTALLATION

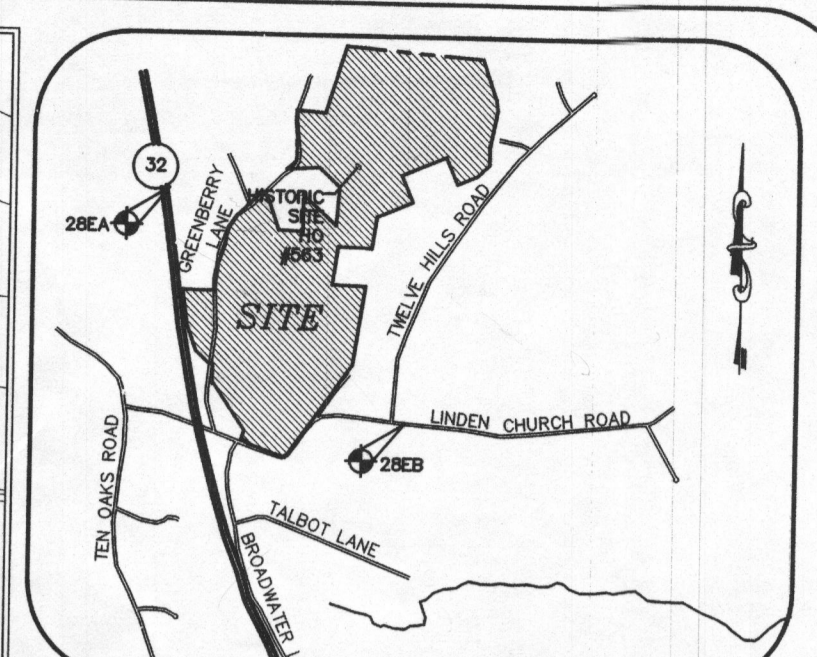
TRENCH	GROUND ELEVATION	PIPE INV. ELEVATION	TRENCH LENGTH (FT)	LATERAL LENGTH (FT)	PERFORATION DIAMETER (IN)	PRESSURE HEAD (FT)	PERFORATION FLOW RATE (GMP)	PERFORATION SPACING (FT)	NUMBER OF PERFORATIONS	TRENCH FLOW RATE (GPM)
1	559.50	555.50	65.00	61.25	5/16	2.0	3.5	3.5	18	29.34
2	559.00	555.00	66.00	62.00	5/16	2.5	1.82	4.0	16	29.12

ON-SITE SEWAGE DISPOSAL SYSTEM:

RESIDENTIAL SYSTEM DESIGN: HOOT 600 BNR
 5 BEDROOM HOUSE (LIVING AREA = 2,288 SQ.FT.)
 150 GALLONS X # OF BEDROOMS = VOLUME OF WASTEWATER / DAY
 150 X 5 = 750 GPD
 PERC RATE = 2-5 MINUTES/INCH
 APPLICATION RATE = 1.2 GPD/SQ.FT.
 DESIGN FLOW + APPLICATION RATE = SQ.FT. OF TRENCH REQUIRED
 750 + 1.2 = 625 SQ.FT.
 SQ.FT. REQUIRED + WIDTH OF TRENCH = LENGTH OF TRENCH
 625 + 3.0' = 208 FT
 USE 2" OF GRAVEL BELOW DRAIN PIPE
 250 X 0.62 = 129
 USE TWO (2) TRENCHES (65')
 A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL
 REDUCTION CREDIT
 MINIMUM TANK CAPACITY = 750 GALLONS



LOCATION PLAN
SCALE: 1"=60'



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP 24 GRID F6

GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND:
TAX MAP: 9 28
GRID: 9 28
PARCEL: 48
LOT: 18
DEED REFERENCE: LIBER 5891 FOLIO 307
ELECTION DISTRICT: FIFTH
ZONING: RR-DEO
AREA: 45,290 SQ. FT.
DPZ FILES: ECP-13-025, SP-13-010, F-14-095, GP-15-081
- TOPOGRAPHY FOR THE DEVELOPED AREAS IS BASED ON AERIAL SURVEY FLOWN BY WINGS TOPOGRAPHY INC. ON OR ABOUT MARCH 2007.
- PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
- SOILS DATA BASED ON THE USDA SOIL SURVEY OF HOWARD COUNTY, MD, DATED MAY, 2008.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.

BEST AVAILABLE TECHNOLOGY (BAT) SITE PLAN NOTES

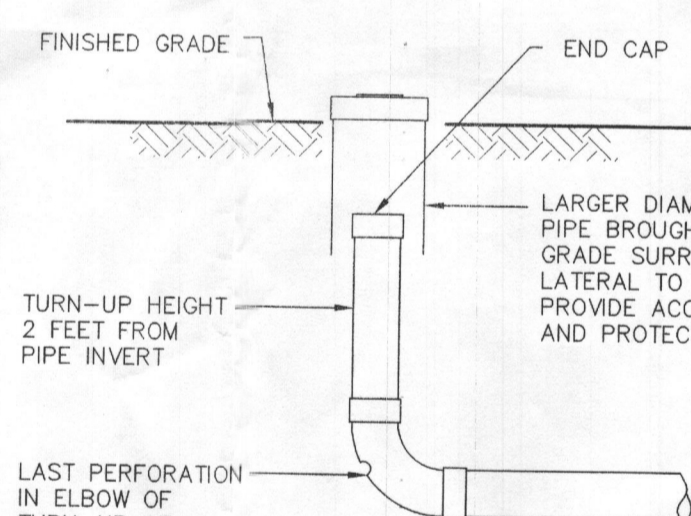
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3.0' FEET.
- THE BLOWER MAY NOT BE LOCATED 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 BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE (1) 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 THE TYPE OF BAT INSTALLED.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.



GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft

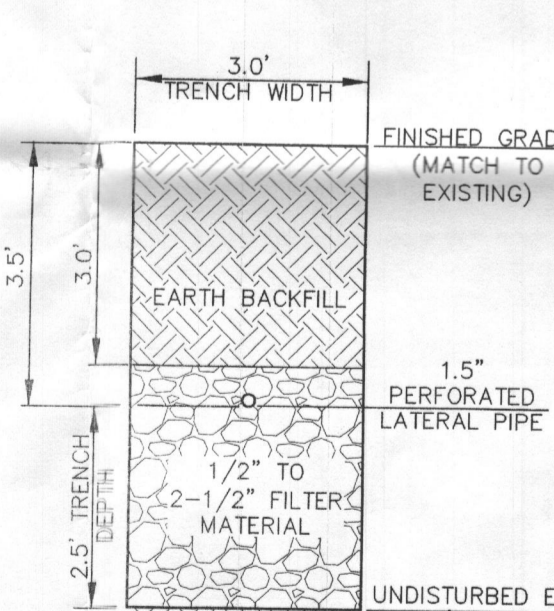
LOW PRESSURE DOSING SYSTEM

NO. OF BEDROOMS: 5
 TRENCH LENGTH: TRENCH #1 = 65.0', TRENCH #2 = 66.0'
 FLOW METHOD: GRAVITY TO TANK
 MANIFOLD TYPE: END FEED MANIFOLD (TRENCHES LENGTH >75')
 HOLE DIAMETER: 5/16"
 HOLE SPACING: LATERAL #1 = 3.5' (FIGURE 4.4), LATERAL #2 = 4.0', LATERAL #1 = 61.25', LATERAL #2 = 62.00', LATERAL #1 = 18', LATERAL #2 = 16'
 LATERAL LENGTH: LATERAL #1 = 29.34', LATERAL #2 = 29.12'
 HOLES NO./LATERAL: LATERAL #1 = 18, LATERAL #2 = 16
 LATERAL DIAMETER: 1.5"
 PRESSURE HEAD: LATERAL #1 = 2.0', LATERAL #2 = 2.5'
 ORIFICE DISCHARGE: LATERAL #1 = 1.63 GPM, LATERAL #2 = 1.82 GPM
 LATERAL DISCHARGE: LATERAL #1 = 29.34, LATERAL #2 = 29.12
 SYSTEM DISCHARGE: 58.46
 MINIMUM DOSE: 5X LATERAL VOL. + MANIFOLD VOL. + FORCE MAIN VOL.
 FORCE MAIN DIAMETER: 3" (TABLE 4.4)
 MANIFOLD DIAMETER: 3"
 LATERAL VOLUME: 13.2 GAL. (61.75x10.6'x100)+(62x10.60'x100)
 MANIFOLD VOLUME: 5.8 GAL. (15x38.4'x100)
 FORCE MAIN VOLUME: 5.0 GAL. (13x38.4'x100)
 MINIMUM DOSE: 76.8 GAL. (5x13.5+3.8+11.9)
 6 DISCHARGES PER DAY
 VOLUME PER DISCHARGE (750/6) 125 GAL. > 76.8 GAL.
 TOTAL HEAD:
 DYNAMIC HEAD+STATIC HEAD+OPERATING HEAD
 F. M. FRICTION LOSS: 0.11 (TABLE 4.4)
 MANIFOLD FRICTION LOSS: 0.08 (TABLE 4.4)
 FITTINGS FRICTION LOSS: 0.69 (6X90° ELBOW, 10' PER FITTING=60' OF PIPE= 30')(TABLE 4.4)
 LATERAL SAFETY FACTOR:
 STATIC HEAD: 4.75'
 DISTAL HEAD: 2.0'
 TOTAL DYNAMIC HEAD: 9.12' (0.11+0.08+0.69+1.5+4.75+2.0)
 USE GOULDS PUMP WE05H.



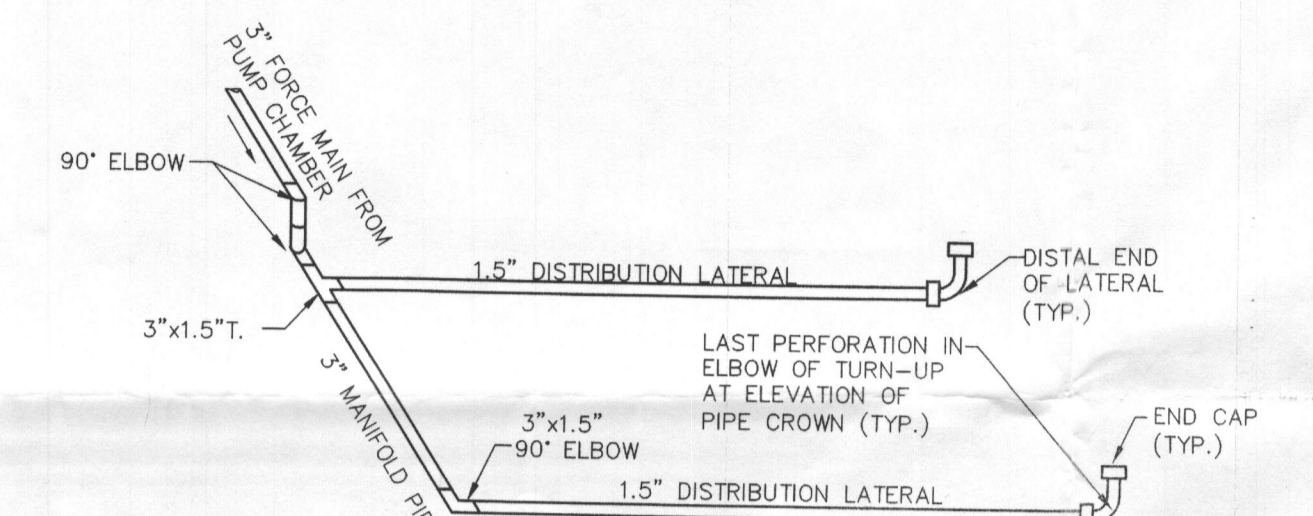
TURN-UP DETAIL
NOT TO SCALE

NOTE: PLACE AN OBSERVATION PIPE IN THE GRAVEL BED AT DISTAL END OF EACH TRENCH SEGMENT

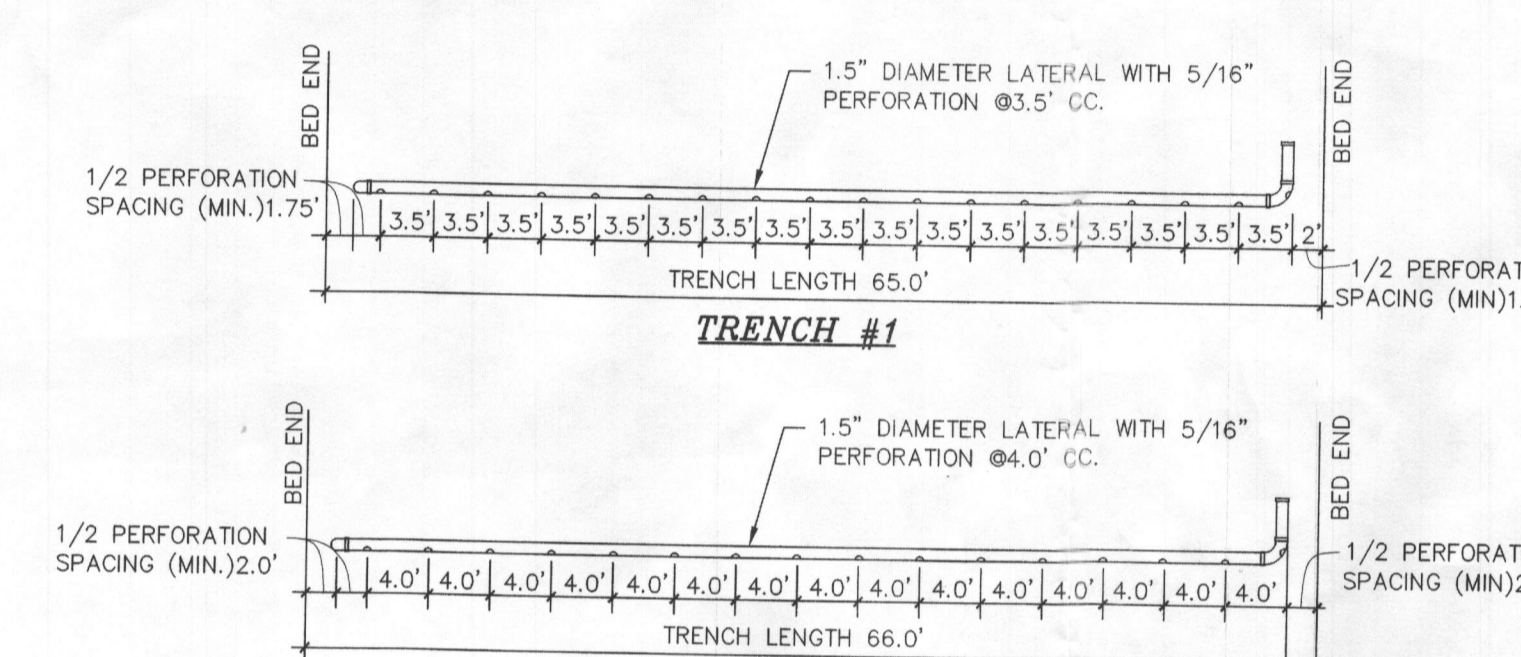


TRENCH DETAIL
NOT TO SCALE

END FEED MANIFOLD DISTRIBUTION NETWORK SCHEMATIC



NOTE: ALL PIPE ARE SCH. 40 PVC ROGED PIPE



END FEED LAYOUT
NOT TO SCALE

Goolds Water Technology

Wastewater

APPLICATIONS
Specifically designed for the following:
 • Homes, Farms, Trailer Courts, Metals, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS
 • Solids handling capabilities: 1/2" 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.

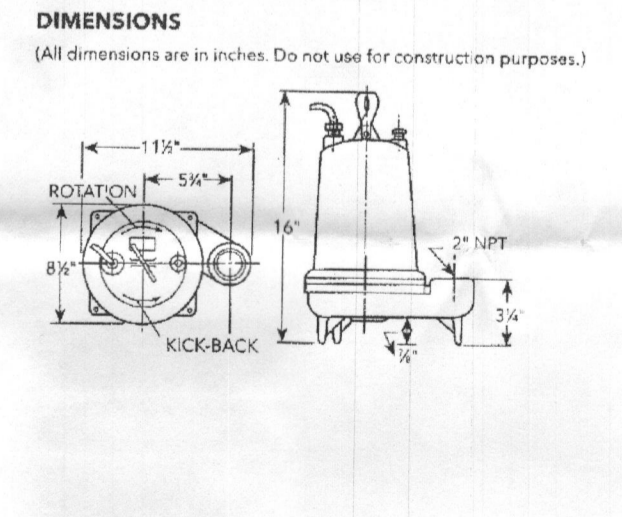
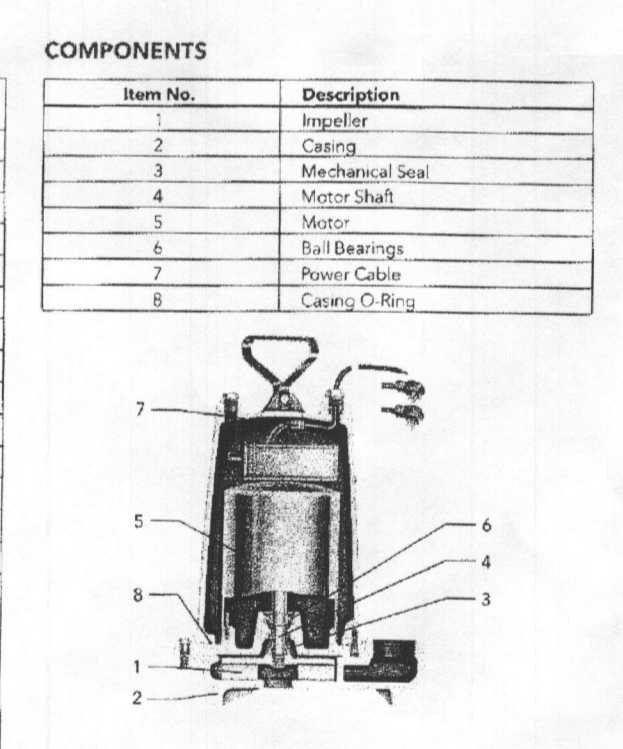
Single phase (60 Hz):
 • Capacitor start motors for maximum starting torque.
 • Built-in overload with automatic reset.

• 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 278 and CSA 22.2-108 Standards by Canadian Standards Association File #133549

PERFORMANCE RATINGS (gallons per minute)

Order No.	HP	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"
1	1/2	36	36	36	1	116	116	2
2	3/4	75	175	350	350	350	350	350
3	1	86	-	-	-	-	-	-
4	1 1/4	10	70	63	78	94	-	-
5	1 1/2	52	52	70	90	103	128	53
6	2	20	27	35	60	83	98	123
7	3	23	5	15	48	76	94	117
8	3 1/2	30	-	-	35	67	88	110
9	4	35	-	-	40	67	87	103
10	4 1/2	40	-	-	45	74	95	30
11	5	45	-	-	50	86	25	74
12	5 1/2	55	-	-	55	77	-	70
13	6	60	-	-	60	56	-	63
14	7	70	-	-	70	45	-	58
15	8	75	-	-	75	-	-	55
16	9	80	-	-	80	-	-	51
17	10	90	-	-	90	-	-	47
18	100	-	-	-	100	-	-	37



xylem
Let's Solve Water

Xylem, Inc.
2881 East Bayard Street, Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210
Fax: (888) 322-5877
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