

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: 11/10/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 857484

APPROVAL DATE: 12/28/2015 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 11901 Northern Bell Way, Clarksville, MD 21029

SUBDIVISION: Greenberry LOT: 14 TAX ID: 05598.77

CONTRACTOR: South Carrol EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: NRV, Inc. EMAIL: _____

OWNER ADDRESS: _____ PHONE: _____

BAT UNIT MODEL: Hoot 600 BNR ^{H-1000 TCB} _{12/21/15} PUMP SIZE: 0.4 HP PUMP TANK CAPACITY: 1500 gal ^{2000 gal} _{12/21/15}

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 9/1/2015 DATE RECORDED: 9/1/2015

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>156</u>	INLET DEPTH: <u>3.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</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 cleanout in SHC within 70 feet of both the foundation and BAT unit.
 *Bulder may opt to install Hoot 1000 BNR. Need revised BAT site plan to reflect changes KRW

ISSUED BY: Robert Bricker ISSUE DATE: 11/10/15 EXPIRATION DATE: 11/10/16

- 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 ~~XXXXXXXXXX~~
- 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 INLET BOTTOM

3' 3.5' 5.5'

NUMBER OF TRENCHES 2

TOTAL LENGTH 157'

ABSORPTION AREA 471 + Sidewalk

DISTRIBUTION BOX LEVEL

DISTRIBUTION BOX BAFFLE

DISTRIBUTION BOX PORT Yes

See As-Built Drawing On Separate Sheet

Pump Tank -

1500 Gallon Top Seam 2.5'-3' Deep Rear Manhole Nov. 2015 (Per Original Plans)

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Mayer Bros.

CAPACITY 1000 GAL

SEAM LOC Top

TANK LID DEPTH 1.5'-2'

BAFFLES Rear

BAFFLE FILTER No

MANHOLE LOC Front

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED No

DATE ON LID 11/20/15

SEPTIC TANK LEVEL Yes

MANUFACTURER Mayer Bros./Hoot

CAPACITY N/A GAL

SEAM LOC Top

TANK LID DEPTH 2'-2.5'

BAFFLES N/A

BAFFLE FILTER No

MANHOLE LOC Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED N/A

DATE ON LID Dry

ROAD NAME

PRE-CONSTRUCTION:

INSTALLATION: 11/30/15 South Carroll filling TI with stone + pipe during site visit. TI complete + left open at ends. 3' wide 3' to stone. Tank install on hold until revised BAT site plan showing Hoot 1000 is submitted + approved (SC)

12/9/2015 First two septic tanks installed. (BB)

12/10/2015 House connection made. (BB)

12/11/2015 Last tank set. Need plumbing to dist. box. (BB)

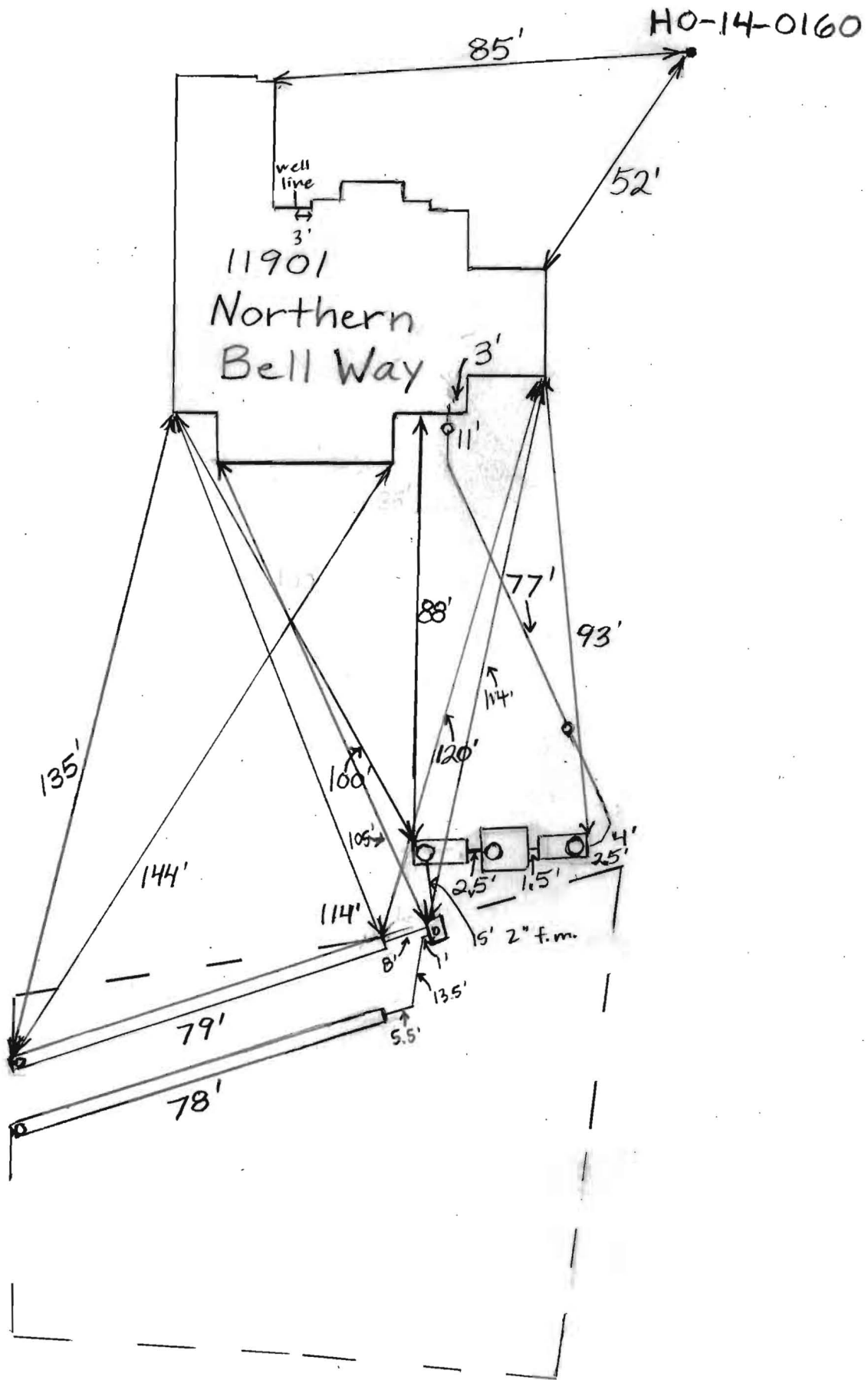
12/14/2015 Plumbing from dist. to pump tank installed. (SC)

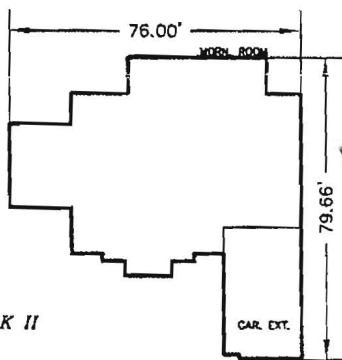
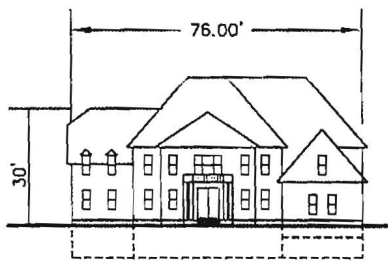
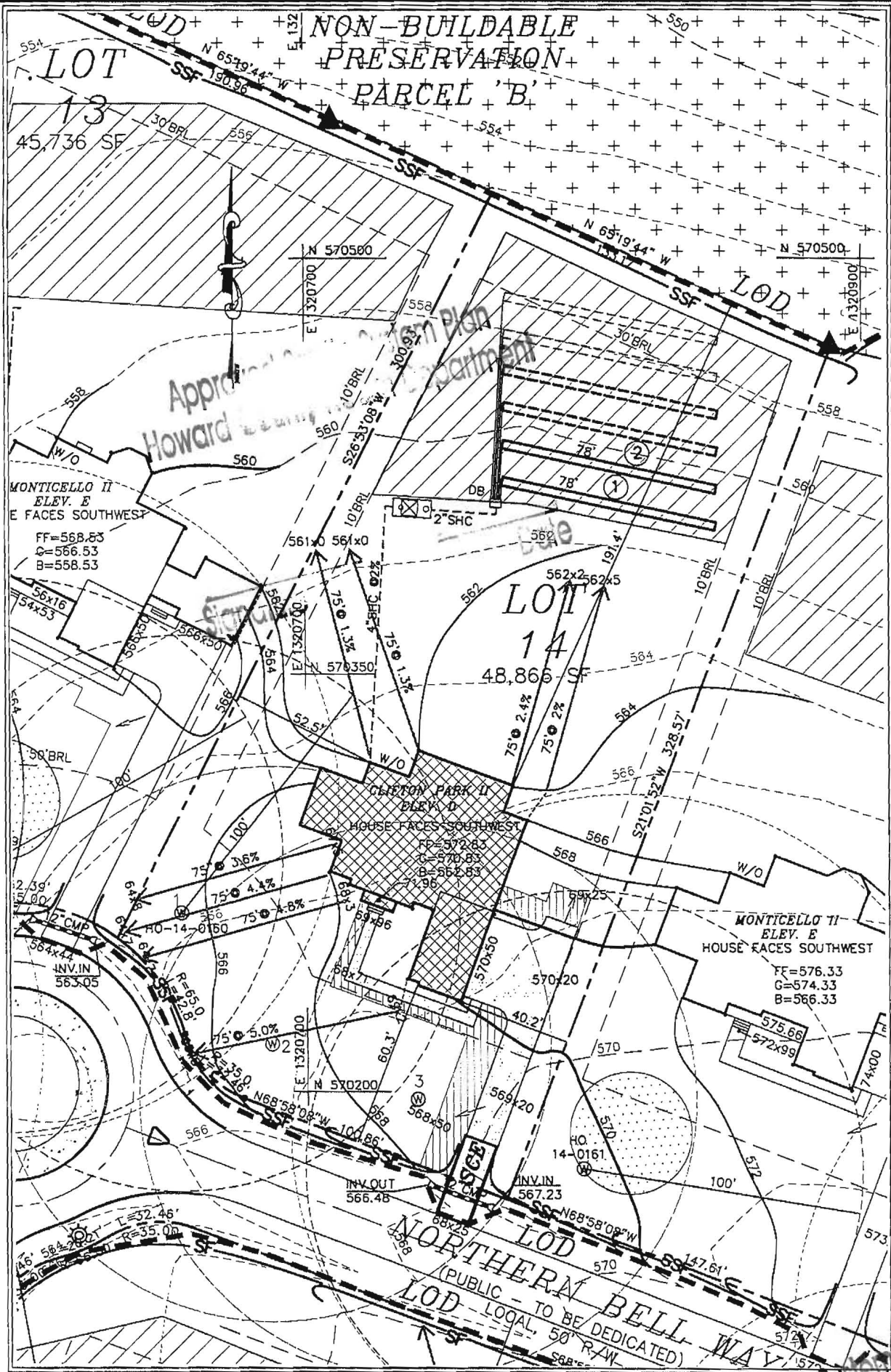
12/17/2015 Pump and alarm working.

FINAL INSPECTOR B. Baker DATE OF APPROVAL 12/28/2015

Need BAT certification from Mayer Bros. (BB)

12/28/2015 Received BAT approval certificate from Mayer Bros. (BB)





Approved Septic System Plan
Howard County Health Department
11901 Northern Bell Way
6-bedroom SFD
R. Buckles
Signature B15003437
9/10/2015
Date

PLOT PLAN (SITE SPECIFIC)
GREENBERRY
LOT 14

FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1"=50' DRAWN BY: MMM DATE: JULY 2015 PN: 15-005

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

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

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: ARAINS
Reference/Control #: 98

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00
=====

REV-Check-BOA 60.00
Number : 878014

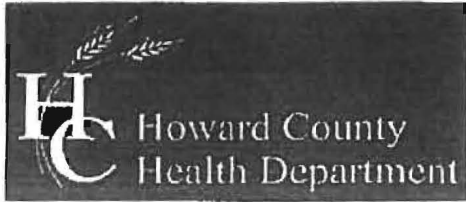
09/01/2015 10:48 CC13-ES
#4777678 /1247/109

***** DUPLICATE #001 *****

09/01/2015 10:49 CC13-ES
~ Thank you for visiting us today ~

LOT 14
GOLDEN BERRY

GB-0014



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
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 8th day of August, among NVR, Inc., hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

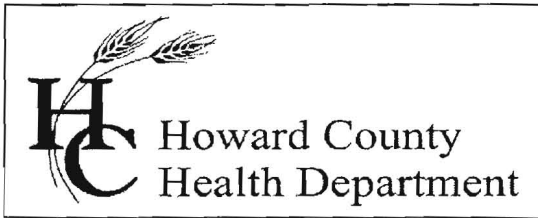
WHEREAS, Owner is the owner or contract owner of a parcel of land located at 11901 New Green Bell Way, in the Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber Folio . PLAT # 23453

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 GPD BNR.

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



Bureau of Environmental Health

8930 Stanford Blvd., 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

Twitter: HowardCoHealthDep

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

April 6, 2015

To: Jacob Hikmat, Mildenburg-Boender & Associates
jhikmat@hotmail.com

RE: BAT Site Plan comments; Greenberry, Lot 14

The revision of the BAT Site Plan for this proposal has the following errors.

1. The Hoot 600 GPD BNR System (H-600) is appropriate, however the 750-gallon pump chamber is not large enough for a 6-bedroom residence. Call for the same Hoot System, but with the Mayer Brothers 1500-gallon pump chamber. Correct the BAT Plan by including the illustration for this specific unit with the 1500-gallon pump chamber.
2. Propose and label a Control Panel location in the Plan View.
3. The well tag number in the WELL CERTIFICATION statement is incorrect.
4. In the SEPTIC TRENCH SIZING table, there is a 'typo' error for the Tertiary Length of Trench in the Septic Trench Sizing table.
5. In the ON-SITE SEWAGE DISPOSAL SYSTEM, there is a 'typo' error for the calculation of reduction of trench length.
6. In PROFILE – PRIVATE SEWER, there is a 'typo' error for the Invert elevation of the bend in the SHC just before the tank.

If more space is needed on the Sheet, General Notes 3, 4, 7, 8, and 9 may be deleted.

Submit two copies of the revised BAT Plan to my attention at the Bureau of Environmental Health. You may contact me at 410-313-2691, or by email, if you have questions about these requirements.

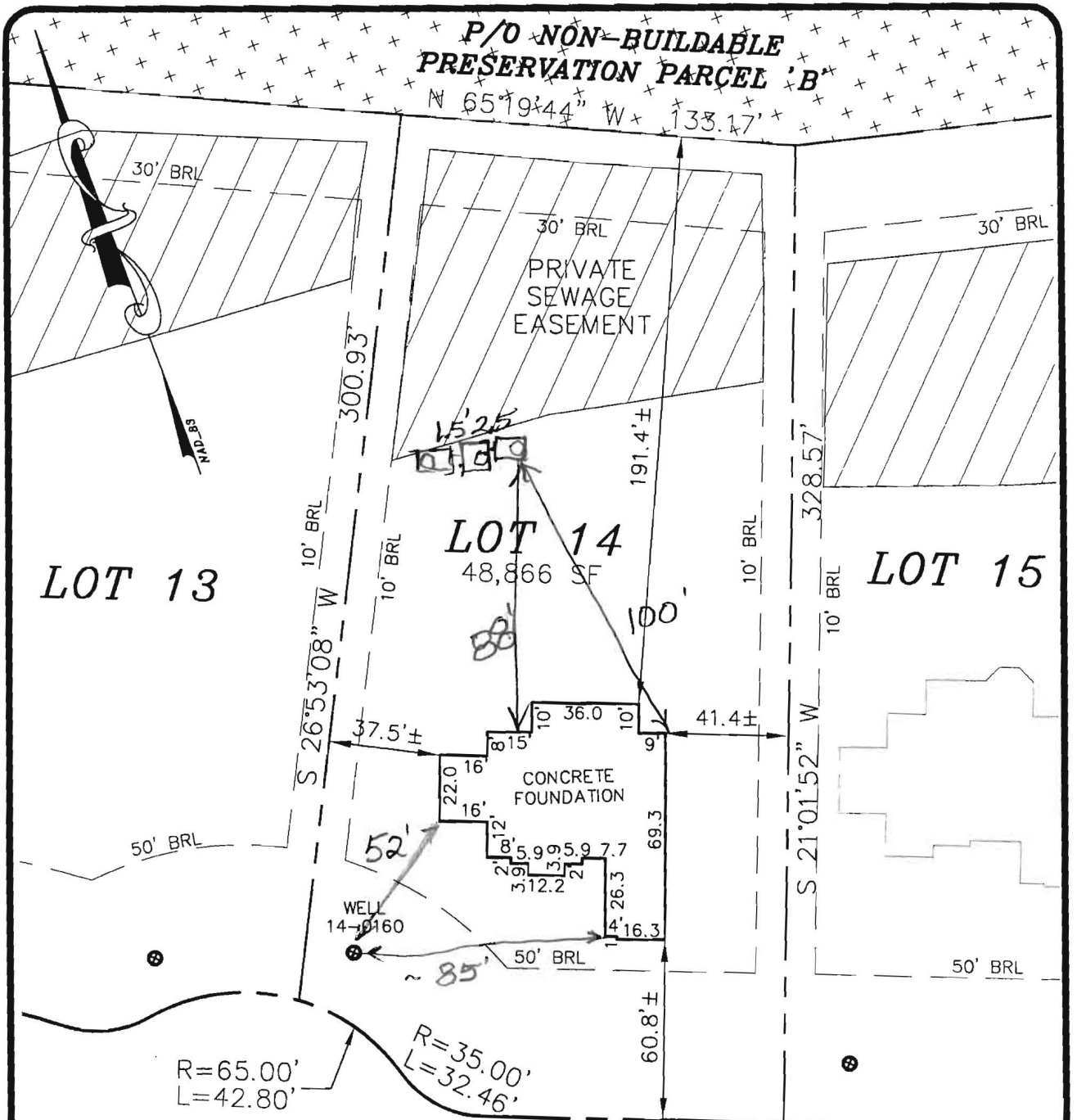
Respectfully,

Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Health Specialist
Well and Septic Program

Copy: file

P/O NON-BUILDABLE PRESERVATION PARCEL 'B'

N 65°19'44" W 133.17'



NORTHERN BELL WAY
(PUBLIC - 50' R/W)

S 68°58'08" E 100.86'

11/10/15 wall check okay. H.O.

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.

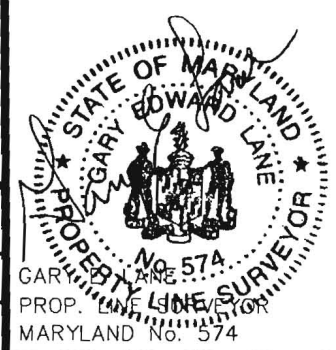
LOT 14 GREENBERRY
PLATS 23453-23461
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND

ADDRESS: 11901 NORTHERN BELL WAY
TOP OF WALL ELEV. = 571.9±
FIRST FLOOR ELEV. = N/A

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: 09/20/15	FINAL LOCATION	DATE: N/A
DRAWN BY: MES	CHECKED BY: GEL	SCALE: 1"=50'	
PROJECT NO.: 15-005	LOCATION DRAWING		

Letter of Satisfaction Hoot System Installation

Address of Property: 11901 Northern Bell Way

Clarksville, mo. 21029

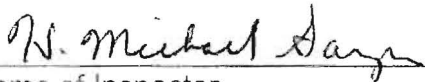
Date of Final Inspection: 12/17/15

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,



Name of Inspector
Mayer Bros., Inc.

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

WBE

info@mayerprecast.com
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

SOILS TABLE (WITHIN LOD)

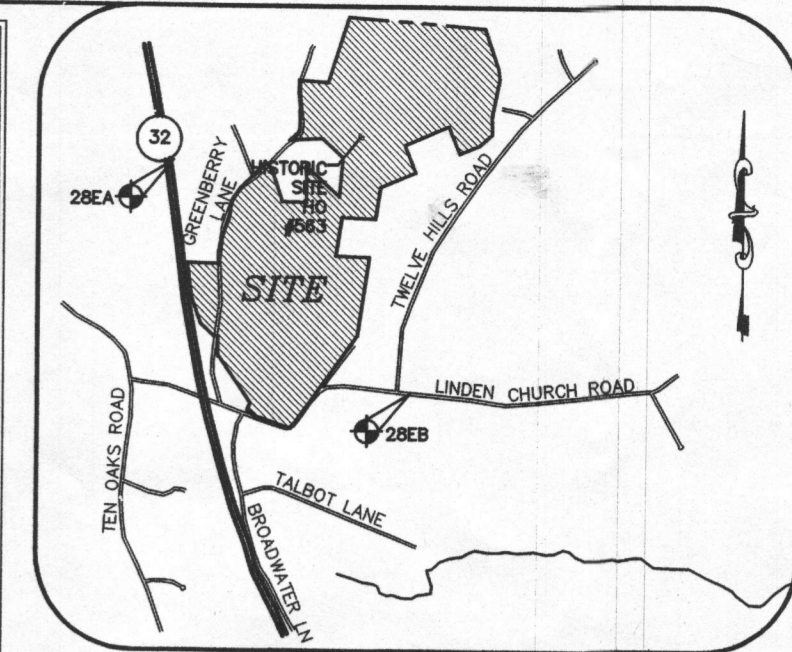
SYMBOL	RATING	NAME	K FACTOR
GgB	(B)	GLENELG LOAM, 0-3% SLOPES.	.20
GgB	(B)	GLENELG LOAM, 3-8% SLOPES.	.20

TRENCH DATA

TRENCH	EX. GROUND ELEVATION	INVERT ELEVATION	BOTTOM OF TRENCH EL.
1	560.8	557.8	555.8
2	560.1	557.1	555.1

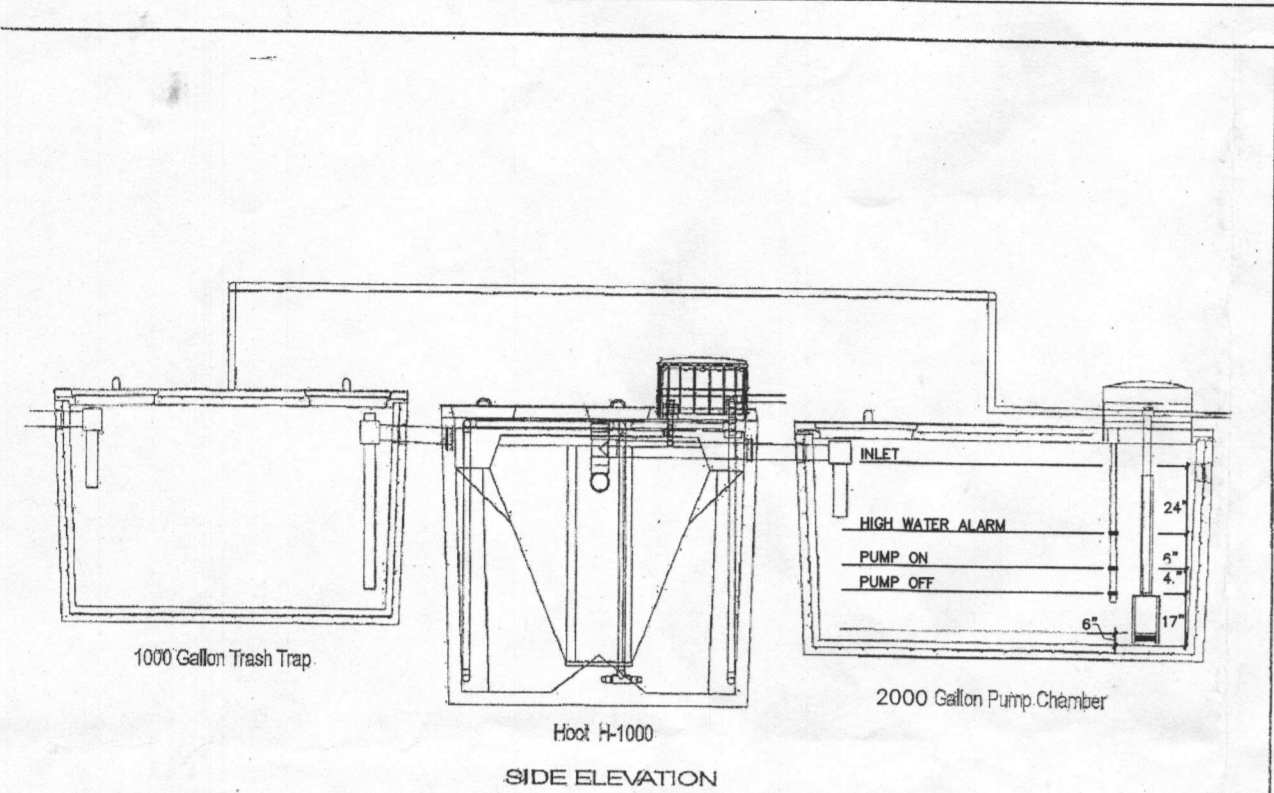
SEPTIC TRENCH SIZING

SYSTEM	APPLICATION RATE (GPD / SF)	MAXIMUM FLOW RATE (GPD)	AREA OF TRENCH (SF)	TRENCH WIDTH (FT)	LENGTH OF TRENCH (LF)	EFFECTIVE DEPTH BEGINS (FT)	TRENCH BOTTOM DEPTH (FT)	TRENCH REDUCTION FACTOR**	ADJUSTED LENGTH OF TRENCH (LF)	MINIMUM TRENCH SPACING (FT)	NUMBER OF TRENCHES	PROVIDED TRENCH LENGTH (FT)
PRIMARY	1.2	900	750	3	250	3.0	5.0	0.62	155	10.0'	2	78
SECONDARY	1.2	900	750	3	250	3.0	5.0	0.62	155	10.0'	2	78
TERTIARY	1.2	900	750	3	208.3	3.5	5.5	0.62	155	10.0'	2	78

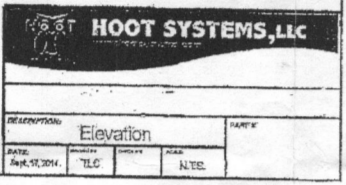


LOCATION PLAN
SCALE: 1"=600'

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

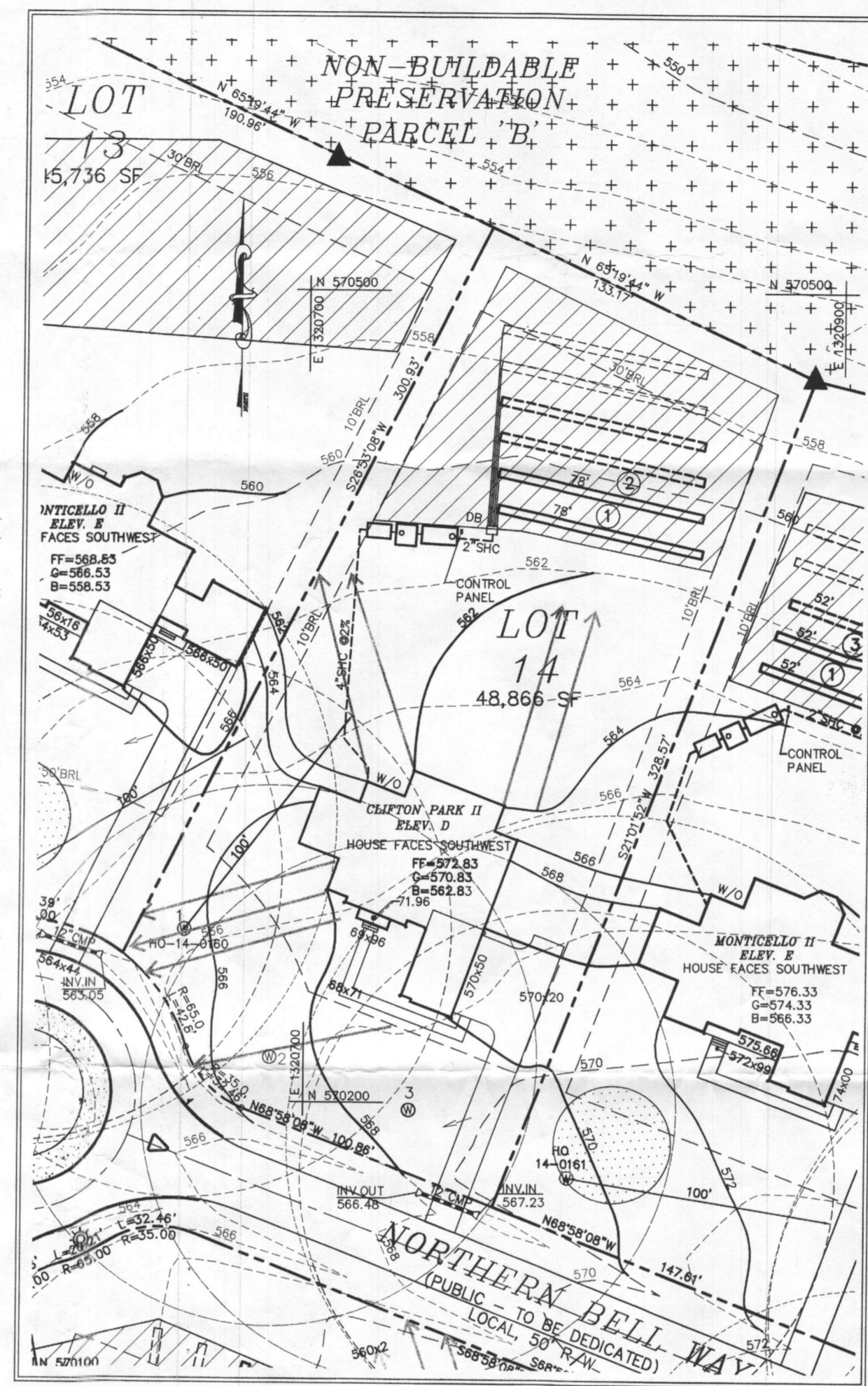


All Tanks to be Traffic Bearing



SEWER SYSTEM CHART

DESCRIPTION	ELEVATION
BASEMENT ELEVATION	562.83
INVERT OUT OF THE HOUSE	560.33
FINISHED GRADE AT SEPTIC TANK	561.13
INVERT INTO SEPTIC TANK	558.74
INVERT OUT OF SEPTIC TANK	558.49
FINISHED GRADE AT HOOT SYSTEM	561.00
INVERT INTO HOOT SYSTEM	558.45
INVERT OUT OF HOOT SYSTEM	558.20
FINISHED GRADE AT PUMP TANK	561.00
TOP OF TANK	559.54
INVERT INTO PUMP TANK	558.16
INVERT OUT OF PUMP TANK	559.97
PUMP TANK FLOOR	554.03
FINISHED GRADE AT DISTRIBUTION BOX	549.30
INVERT INTO DISTRIBUTION BOX	561.00
PUMP OFF	555.45
PUMP ON	555.78
HIGH WATER ALARM	556.27
DOSED RATE	50 GPM
PUMP RUNTIME	3 MIN.



GRAPHIC SCALE
1 inch = 50 ft.

GENERAL NOTES:

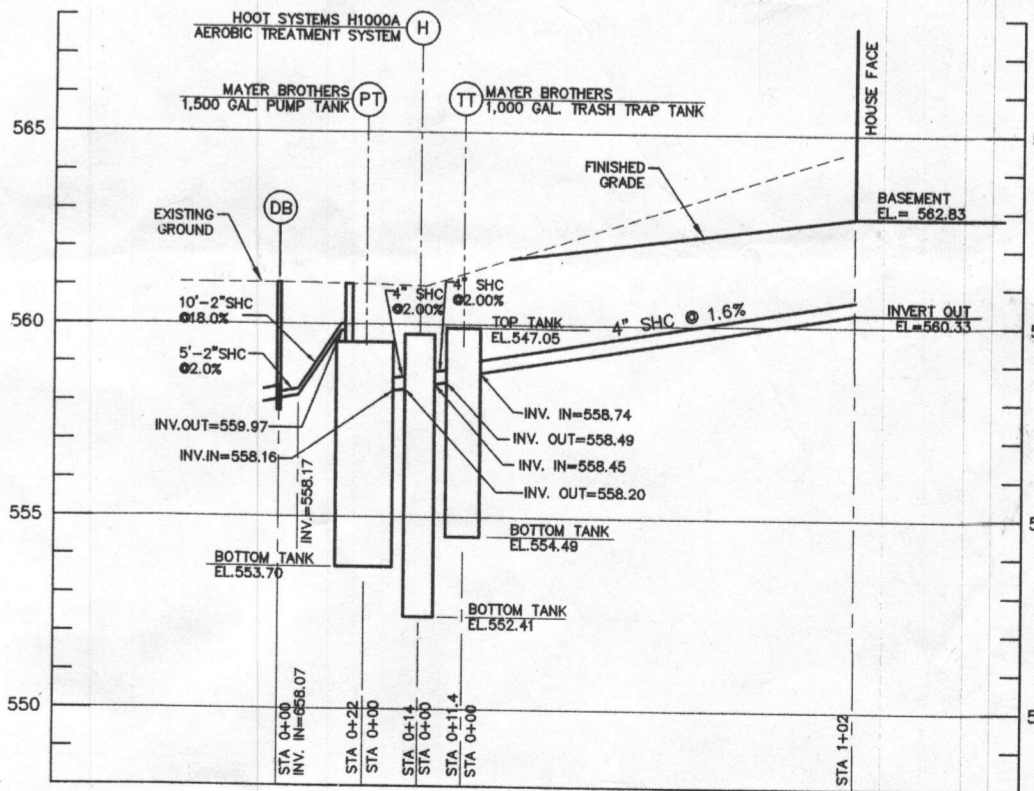
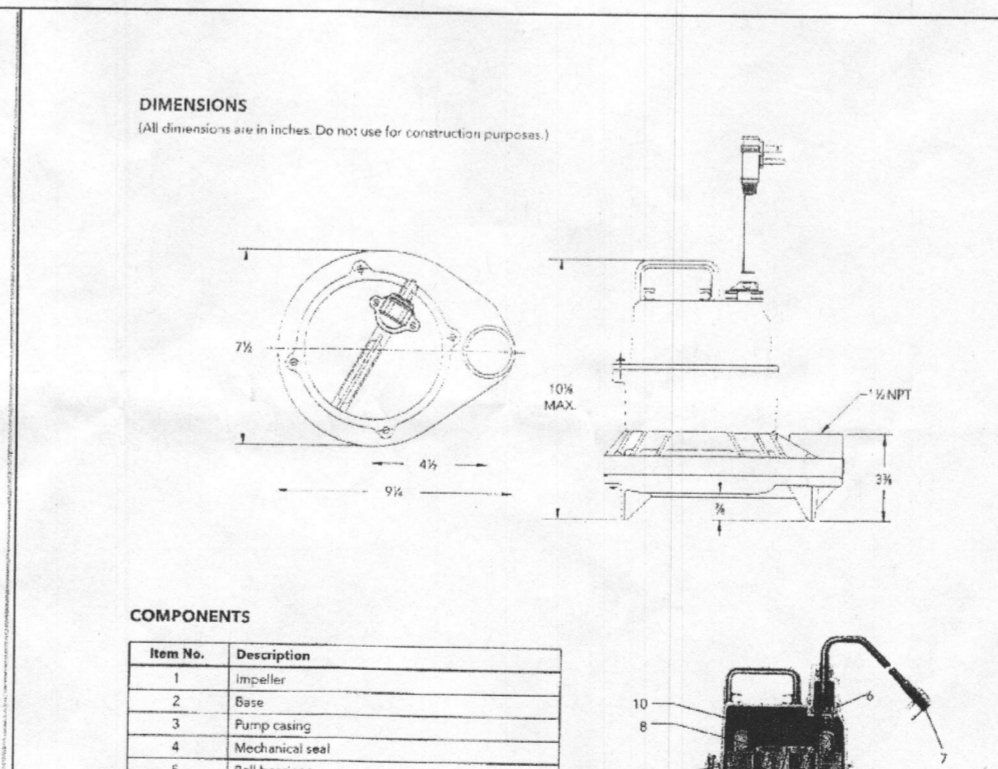
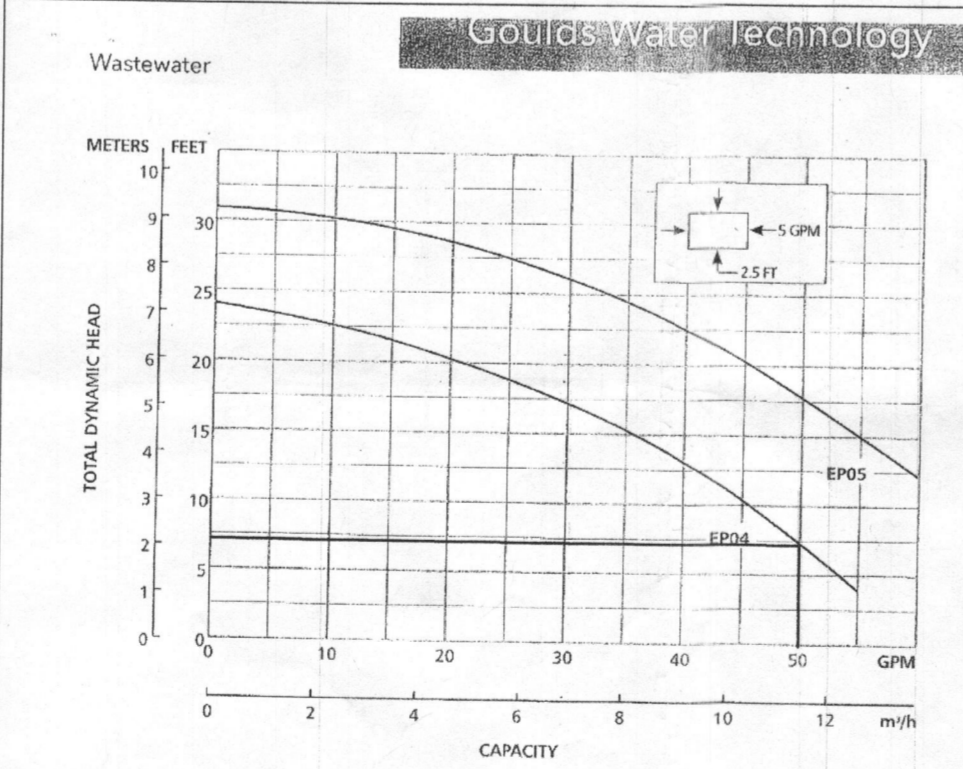
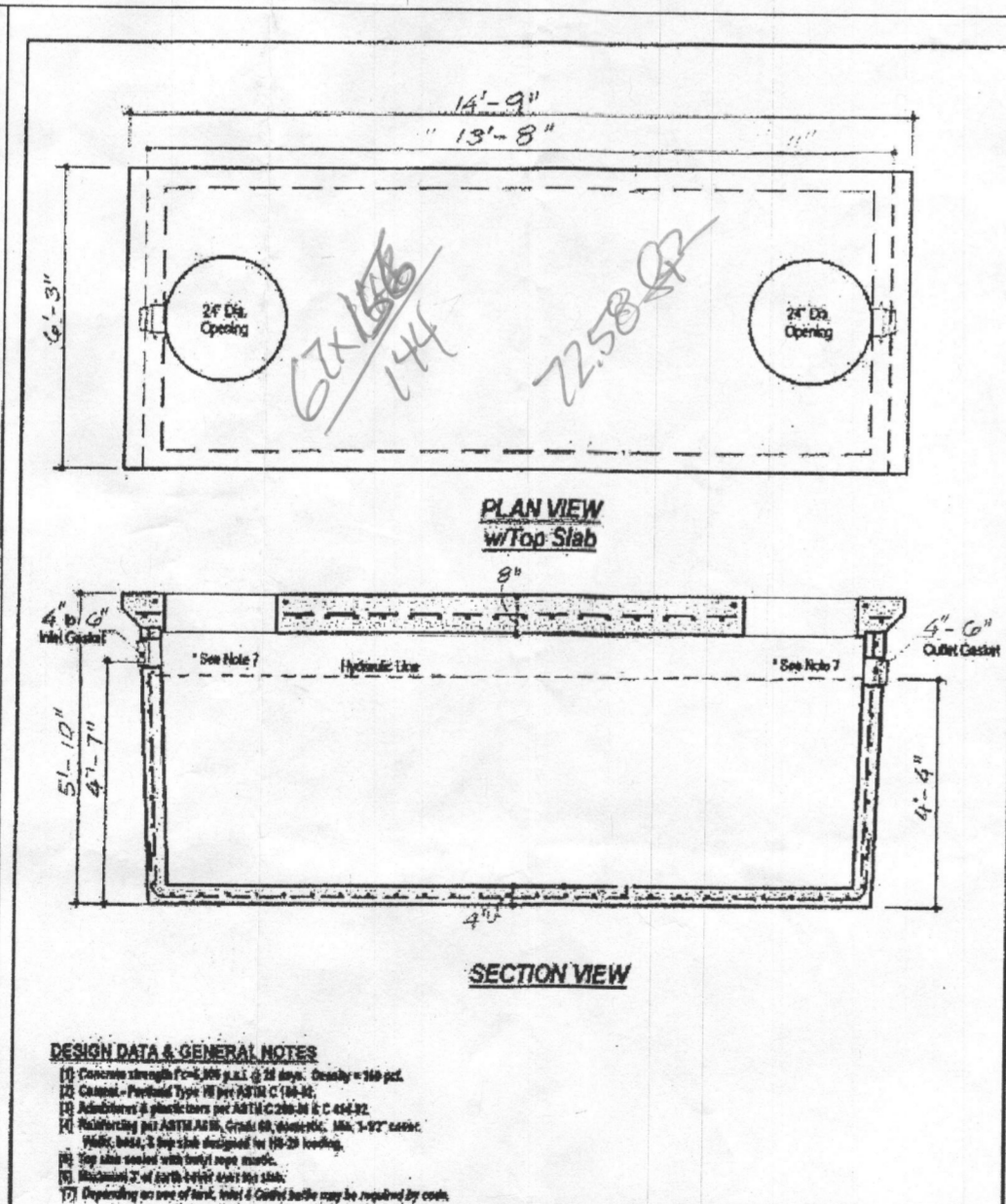
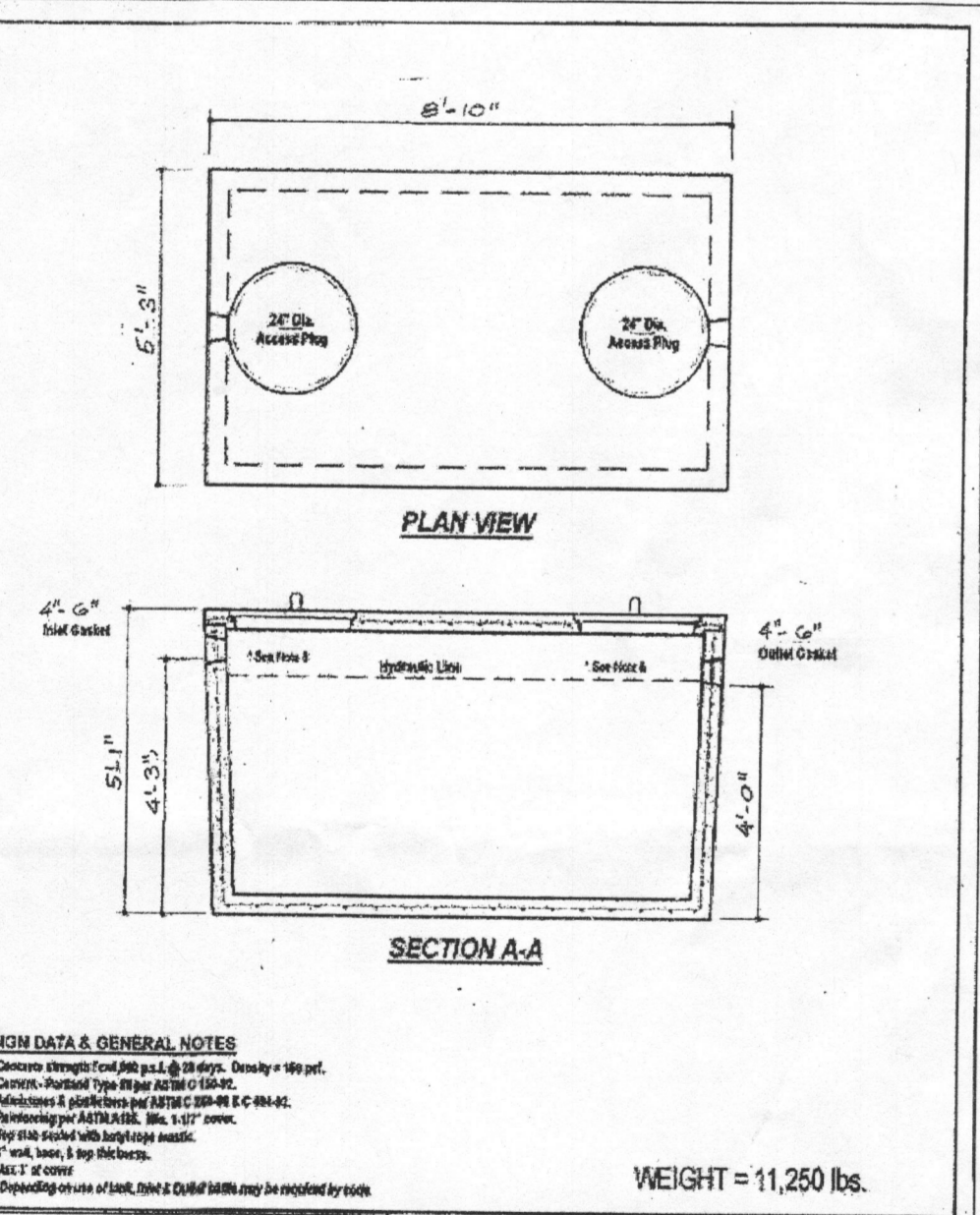
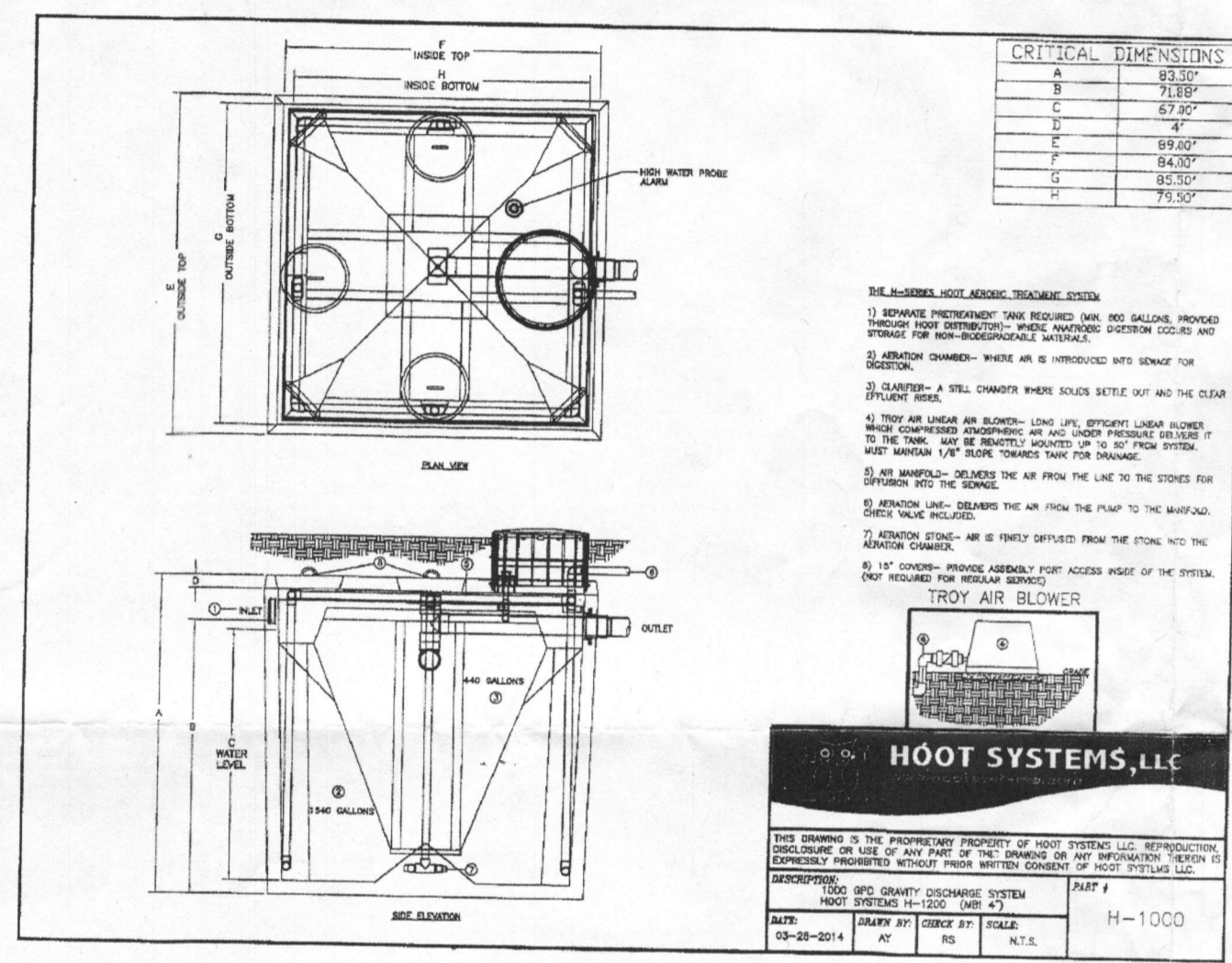
- THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- PARCEL BACKGROUND: TAX MAP: 28; GRID: 9; PARCEL: 48; LOT: 14; DEED REFERENCE: LIBER 5891 FOLIO 307; ELECTION DISTRICT: FIFTH; ZONING: RR-DEO; AREA: 48,866 S.F.; DPZ FILES: ECP-13-025, SP-13-010, F-14-095, GP-15-081
- 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 ANY 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 EXISTING WELLS, SEPTIC SYSTEMS, AND SEWER DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWER DISPOSAL AREAS HAVE BEEN SHOWN.

ON-SITE SEWAGE DISPOSAL SYSTEM:

RESIDENTIAL SYSTEM DESIGN: HOOT 1,000 BNR
6 BEDROOM HOUSE (LIVING AREA = 2,288 SQ.FT.)
150 GALLONS X # OF BEDROOMS = VOLUME OF WASTEWATER / DAY
150 X 6 = 900 GPD
PERC RATE = 2-5 MINUTES/INCH
APPLICATION RATE = 1.2 GPD/SQ.FT.
DESIGN FLOW + APPLICATION RATE = SQ.FT. OF TRENCH REQUIRED
900 + 1.2 = 750 SQ.FT.
SQ.FT. REQUIRED + WIDTH OF TRENCH = LENGTH OF TRENCH
750 + 3.0' = 250 FT
USE 24" OF GRAVEL BELOW DRAIN PIPE
250 X 0.62 = 155
USE TWO (2) TRENCHES (78')
A MINIMUM OF 10' BETWEEN TRENCHES UTILIZING SIDEWALL REDUCTION CREDIT
MINIMUM TANK CAPACITY = 1,500 GALLONS
PUMP: GOULDS MODEL 3871, EP04 SERIES

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.



PROFILE - PRIVATE SEWER
SCALE: 1"=50' HOR
1"=5' VER

MODEL INFORMATION

Order No.	HP	Watts	Amper	Minimum Circuit Breaker	Phase	Head (ft)	Flow (GPM)	Discharge Connection	On Level	Off Level	Minimum Basin Diameter	Minimum Basin Length	Minimum Basin Width	Weight (lbs)
EP0411						10'	15'	1.5"	Manual	Manual	15"	20'	20"	20/9.1
EP0412	1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0413	3/4	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0414	1	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0415	1 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0416	2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0417	2 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0418	3	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0419	3 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0420	4	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0421	4 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0422	5	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0423	5 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0424	6	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0425	6 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0426	7	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0427	7 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0428	8	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0429	8 1/2	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3
EP0430	9	115	12	20		10'	15'	1.5"	Manual	Manual	15"	21'	21"	21/9.3

xylem
Let's Solve Water

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER: _____ DATE: _____
HOWARD COUNTY HEALTH DEPARTMENT



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. 17942, EXP. DATE 09/03/2016.
R. JACOB HIKMAT, P.E. DATE: 11/26/15

Project	NOV. 2015
Illustration	MMM
REVISIONS	DATE SUBMITTED TO
NO.	description
date	date
1"=50'	RIH

11901 NORTHERN BELL WAY, CLARKSVILLE MD
GREENBERRY LOT 14
FIRST ELECTION DISTRICT
HOWARD COUNTY
SITE PLAN FOR BAT INSTALLATION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, Maryland 21044
(410) 997-0298 Fax