

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 556544

APPROVAL DATE: 11/10/15

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 15064 Double Bridges Court

SUBDIVISION: Meriwether Farm

LOT: 6

TAX ID: _____

CONTRACTOR: Ben Lewis Plumbing

EMAIL: _____

CONTRACTOR ADDRESS: 23407 Frederick Road, Clarksburg, MD 20871

PHONE: (301) 428-3900

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

MDE

MANUFACTURER:

PROPERTY OWNER: K Hovnanian Homes

EMAIL: cwillet@khov.com

OWNER ADDRESS: 1802 Brightseat Road

PHONE: 301-683-6268

BAT UNIT MODEL: HOOT 600 ABNR

PUMP SIZE: EP0511

PUMP TANK CAPACITY: 750 GPD

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 7/21/15

DATE RECORDED: _____

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>167</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>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:	Use 3 56' long trenches.	

ISSUED BY: Hank Oswald

ISSUE DATE: _____

EXPIRATION DATE: _____

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 _____

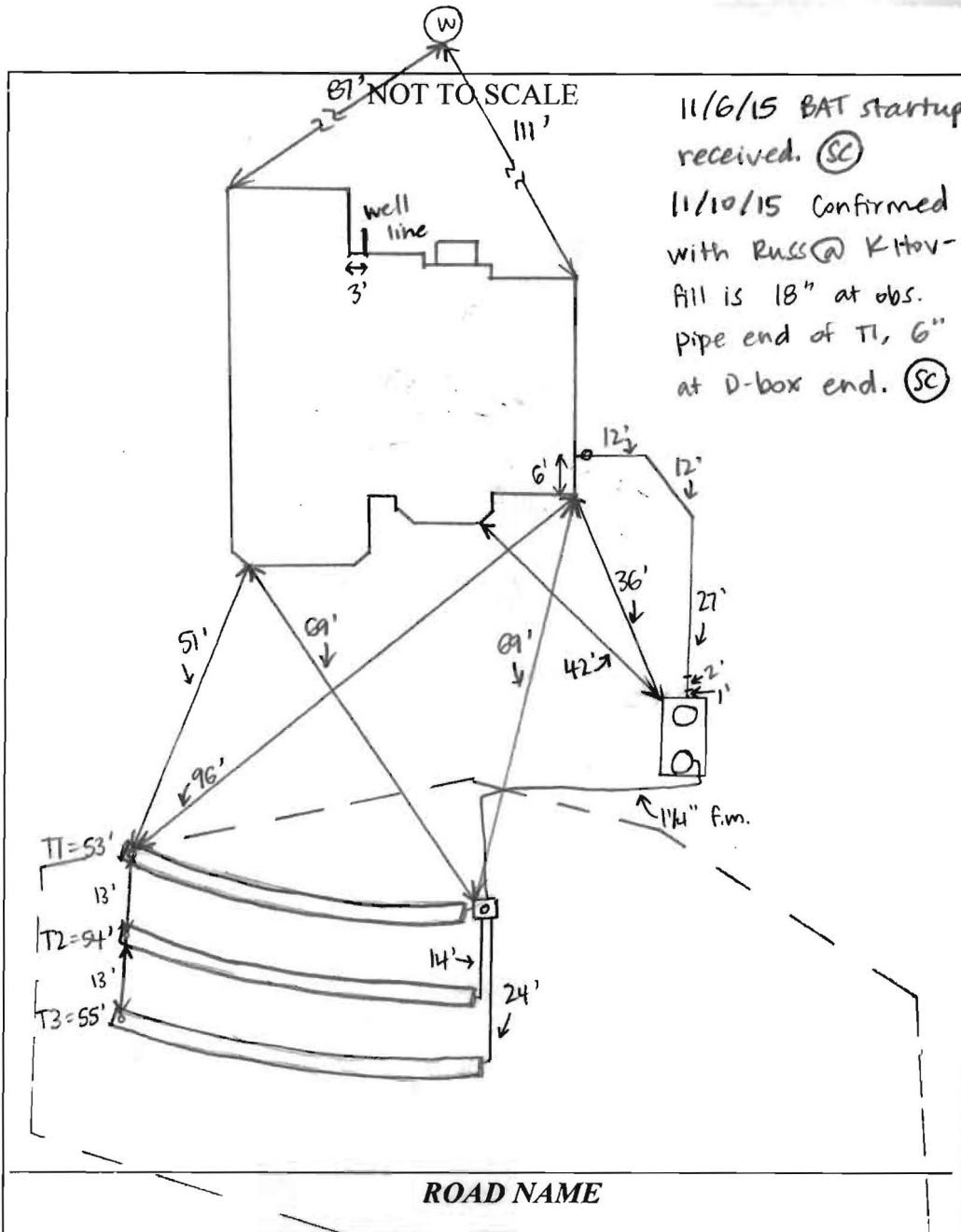
NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

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.



11/6/15 BAT startup received. (SC)
 11/10/15 Confirmed with Russ @ K-Hov- fill is 18" at obs. pipe end of T1, 6" at D-box end. (SC)

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	5'
NUMBER OF TRENCHES	3	
TOTAL LENGTH	162'	
ABSORPTION AREA	486'	
DISTRIBUTION BOX LEVEL	YES	
DISTRIBUTION BOX BAFFLE	YES	
DISTRIBUTION BOX PORT	YES	

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS.
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

8/26/15 Met with Andy from Ben Lewis and Russ from K-Hov on site prior to layout. Only a couple of SDA stakes present, no tank stakes. Portion of SDA for proposed initial system has trees + rough contour. Area of first replacement shown on BAT plan has more even contour - install initial system here. (SC) 8/28/15 Layout w/ Andy. Laid out 3 x 56' trenches near area of 1" replacement on BAT plan. Not quite at edge b/c dropoff in that area. All SDA and tank stakes present. (SC)

INSTALLATION: 8/31/15 Trenches complete and left open for inspection. 3' wide, 3.5' to stone. Soil lighter in color at northern half of trenches, darker at southern half. Some rock encountered while digging. D-box installed + connected to trenches. (SC) 8/31/14 Trenches complete and left open. 3' wide, 3.5' to stone. Some rock encountered while digging T3. Lines from D-box to T2 + T3 bedded w/ stone dust. 1 1/4" force main installed from tank area to D-box. (SC) 9/8/15 House connection made. Tank installed and connected to D-box with 1 1/4" force main. Line from house bedded with stone dust in places; sand around pipes on top of tank. Andy will fill in swale in SDA with excess dirt to even out contour, ~14" depth max in middle of swale.

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/10/15
 Need BAT startup certification. (SC) 11/3/15 Hat startup with Mike Sample. Alarm sounds, pump pumps effluent to D-box. ~2' fill over T1 end from hill graded over SDA. (SC)



MAYER BROS., INC.
Precast Concrete Products
6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 15064 Double Bridges Ct
Glenelg, MD, 21737

Date of Final Inspection: 11/3/15

Installer: Ben Lewis Plumbing

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. Michael Dargatzis
Name of Inspector

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C-1	55.00'	34.24'	35°40'30"	17.70'	S 04°30'15" W	33.70'

MARYLAND COORDINATE SYSTEM
NAD'83

PART OF
NON-BUILDABLE
PRESERVATION
PARCEL 'B'



S 05°19'25" W 78.40'
S 28°07'31" W 109.70'

N 76°17'31" W 64.24'

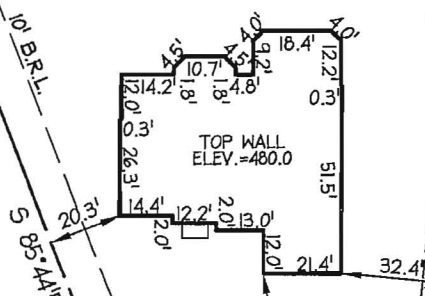
30' B.R.L.

PRIVATE
SEPTIC
EASEMENT

LOT 6
43,300 SQ.FT.

*Wall Check
OK
DB
8-12-15*

THE BUILDING
SHOWN HAS POURED
CONCRETE WALLS



LOT 7

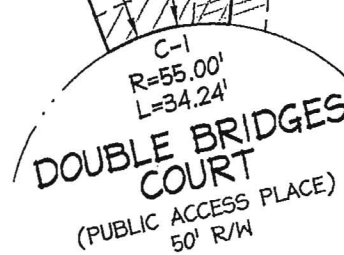
S 85°44'56" W 318.10'

142' B.R.L.

WELL
BURIED
NO #

10' PUBLIC TREE
MAINTENANCE
EASEMENT

20' PUBLIC
DRAINAGE &
UTILITY EASEMENT



DOUBLE BRIDGES
COURT
(PUBLIC ACCESS PLACE)
50' R/W

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE. I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 239, EXPIRATION DATE 7/6/16.



Robert B. Southard



Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

WALL CHECK SURVEY
#15064 DOUBLE BRIDGES COURT
LOT 6
MERIWETHER FARM
SECTION ONE
PLAT NO. 21343
4TH ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#: 13085.2
DATE: 7-13-2015
SCALE: 1"=50'
DRN. BY: RC
CHK. BY: RBS

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: K HAVANIAN HOMES
Reference/Control #: 116

LR - Agreement Surcharge
1x 40.00 40.00

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

REV-Cash 60.00

07/21/2015 13:34 CC13-ES
#4569003 /1247/109
~ Thank you for visiting us today ~



Bureau of Environmental Health

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Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

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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 21st day of July, 2015, among K. ANNANIAN HOMES OF MARYLAND, LLC, 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 15064 Double Bridge Ct. (Green) G, MD. 21732, 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 16119 Folio 300. Lot 6 / Meadow Farm 04/375130

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 600 GPD BNR SYSTEM w/ 750 GALLON PUMP
HOOT CHAMBER

NOW, THEREFORE, the parties hereto agree as follows:

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

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

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

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

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

Beit Myer 7/21/2015
Howard County Health Department

Steve Smyth 7-20-15
Owner #1 Signature Date

STEVE SMYTH VP CONSTRUCTION
OWNER #1 Print Name KENNEDY HALL
CF MARYLAND

Owner #2 Signature Date

Owner #2 Print Name

NONE AS OF 7/20/15
Buyer #1 Signature Date

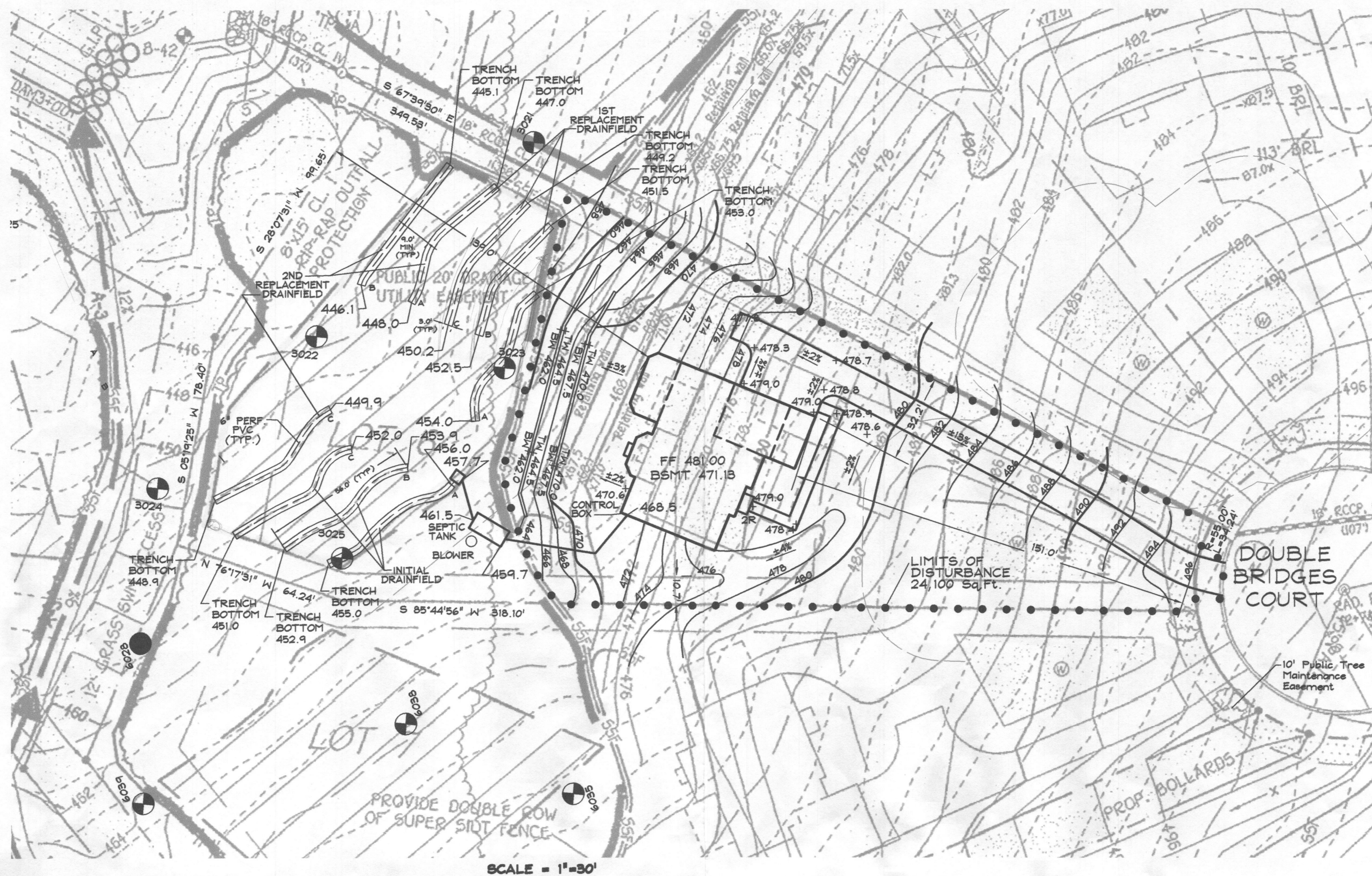
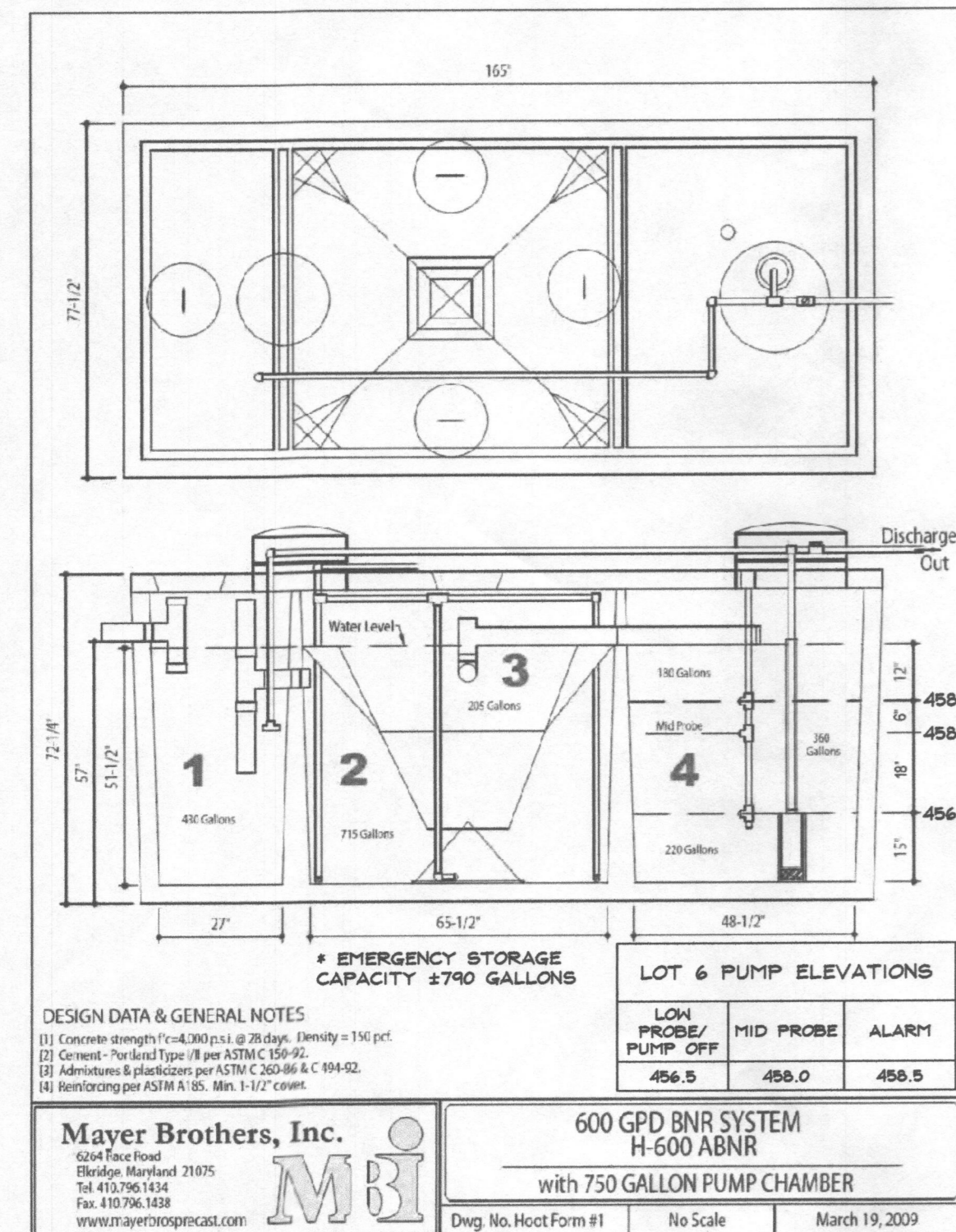
Buyer #1 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

- GENERAL NOTES**
- BASE SQUARE FOOTAGE OF HOUSE: 4,185 SQ.FT.
 - NUMBER OF BEDROOMS: 4
 - EJECTOR PUMP NOT REQUIRED TO SEWER BASEMENT
 - DRIVEWAY CULVERT IN NOT REQUIRED PER THE APPROVED ROAD DRAWINGS: F-08-139
 - THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
 - PLAT REFERENCE: #21339
 - BASE INFORMATION SHOWN ON THIS PLAN IS SHOWN PER THE APPROVED FINAL PLAN, F-08-139 PREPARED BY FISHER, COLLINS AND CARTER INC. AND DATED 12/17/08
 - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE DDC, INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
 - THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEVELOPMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410)313-1881 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - TOTAL LIMIT OF DISTURBANCE: 24,100 SQ. FT. / 0.55 AC.
 - STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-08-139)
 - ANY DAMAGE TO PUBLIC "OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
 - DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (DDC, INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
 - THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 - 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.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS OF ALL PROPOSED STRUCTURES AND OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
 - THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-08-139.
 - AT ANY TIME IN THE FUTURE THAT A BUILDING PERMIT IS SUBMITTED TO FINISH THE AREA CURRENTLY IDENTIFIED AS OPTIONAL DEN, THEN A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE OPTIONAL DEN CREATES A FIFTH BEDROOM PER HOWARD COUNTY CODE 3.801(B).

- SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) 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 FEET.
 - THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE 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 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 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.



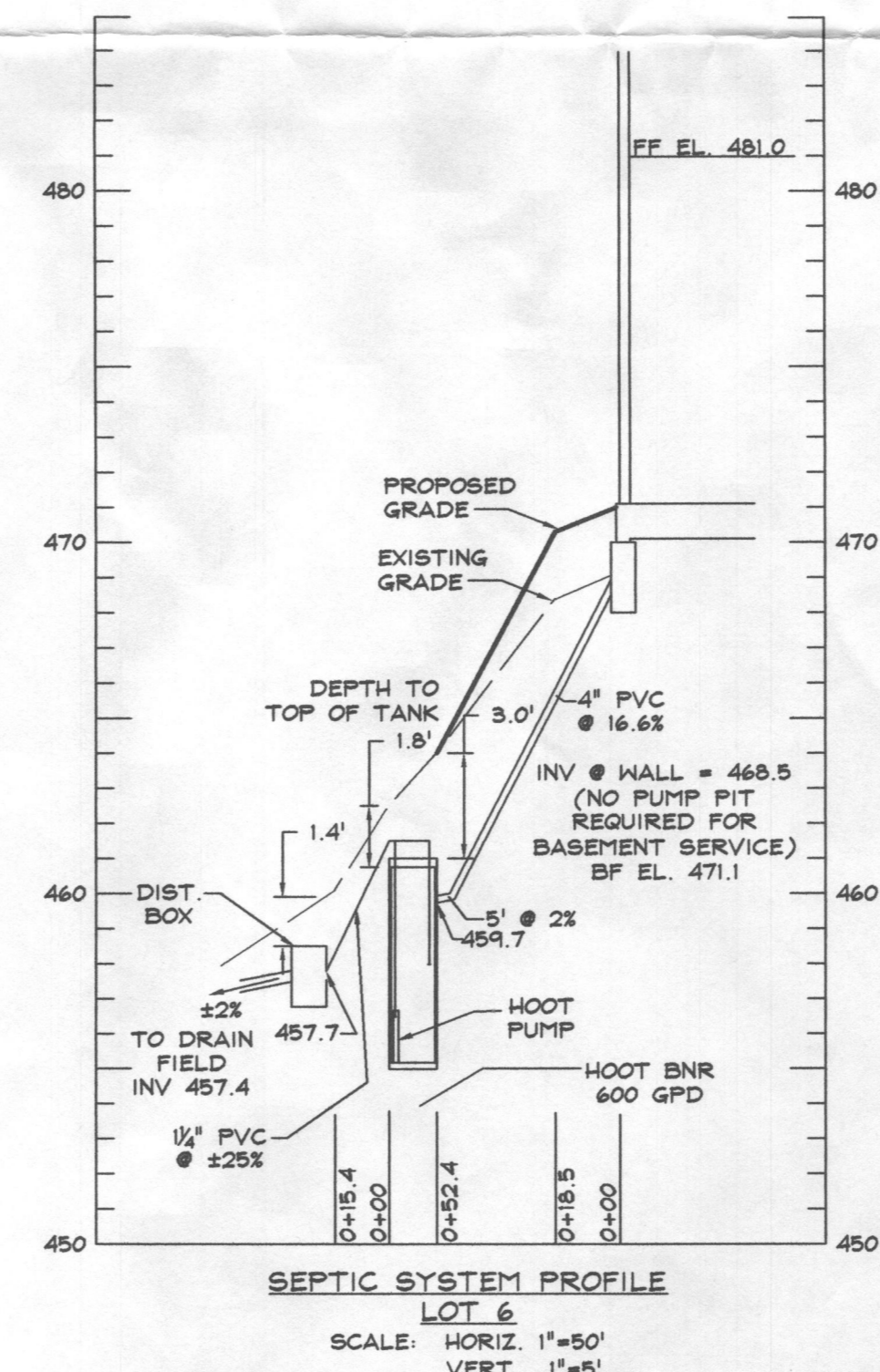
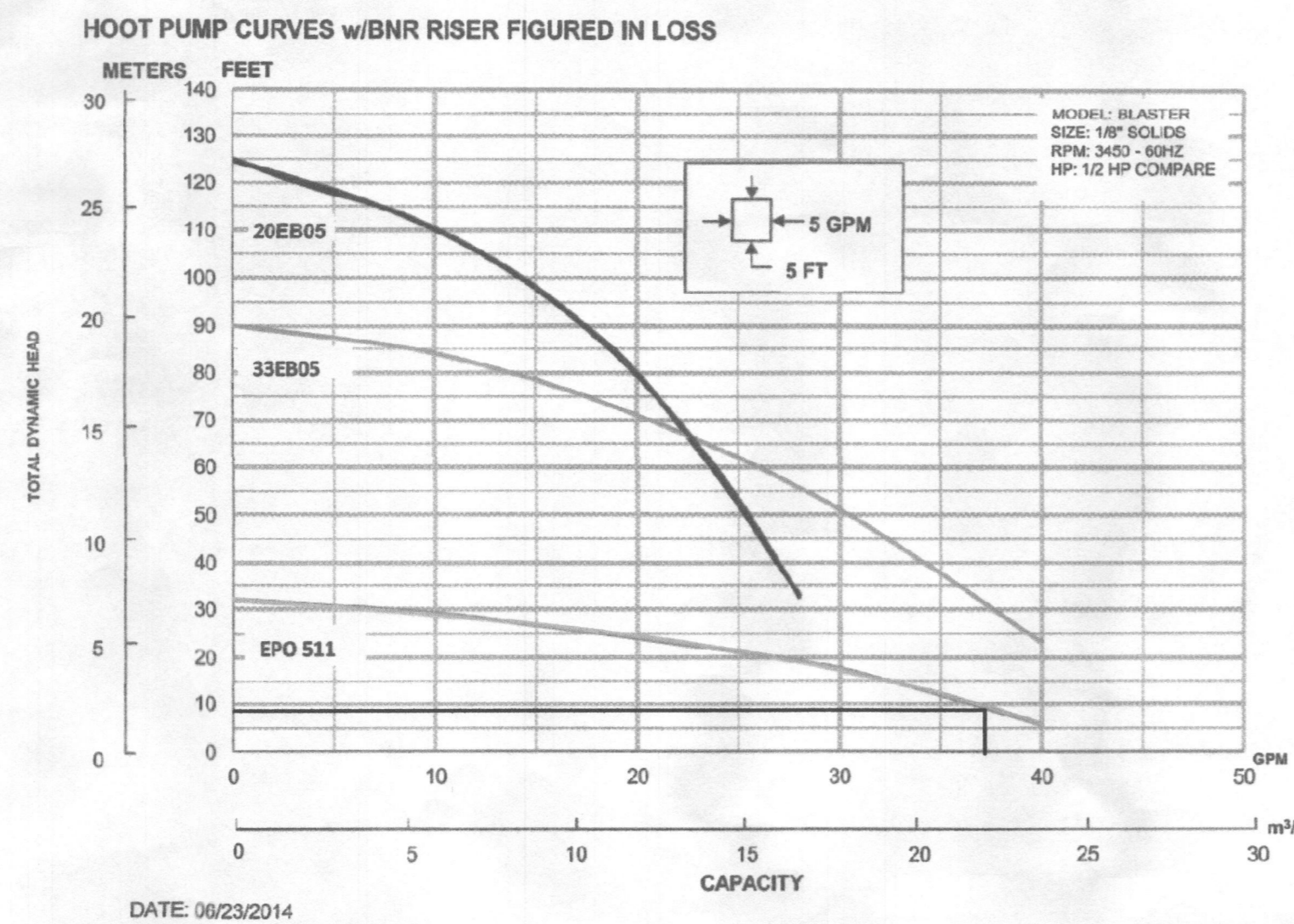
STATIC HEAD	5.0'
FRICTION HEAD	4.0'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	9.0'
GALLONS PER MINUTE	37.0 GPM
DOSE	74 GAL
PUMP RUN TIME	2.0 MIN

TOTAL DYNAMIC HEAD CALCULATIONS

STATIC HEAD
 OFF FLOAT ELEVATION: 456.5'
 HIGH POINT OF THE SYSTEM: + 461.5'
 VERTICAL ELEVATION CHANGE: 5.0'

FRICTION HEAD
 FITTINGS: 13.8'
 LENGTH OF PVC PIPE: + 15.4'
 TOTAL LENGTH: 29.2'
 29.2'/100 x 13.62 = 4.0' TOTAL FRICTION LOSS

TOTAL HEAD
 VERTICAL ELEVATION CHANGE: 5.0'
 TOTAL FRICTION LOSS: 4.0'
 SYSTEM PRESSURE REQUIREMENTS: + 0.0'
 TOTAL DYNAMIC HEAD: 9.0'

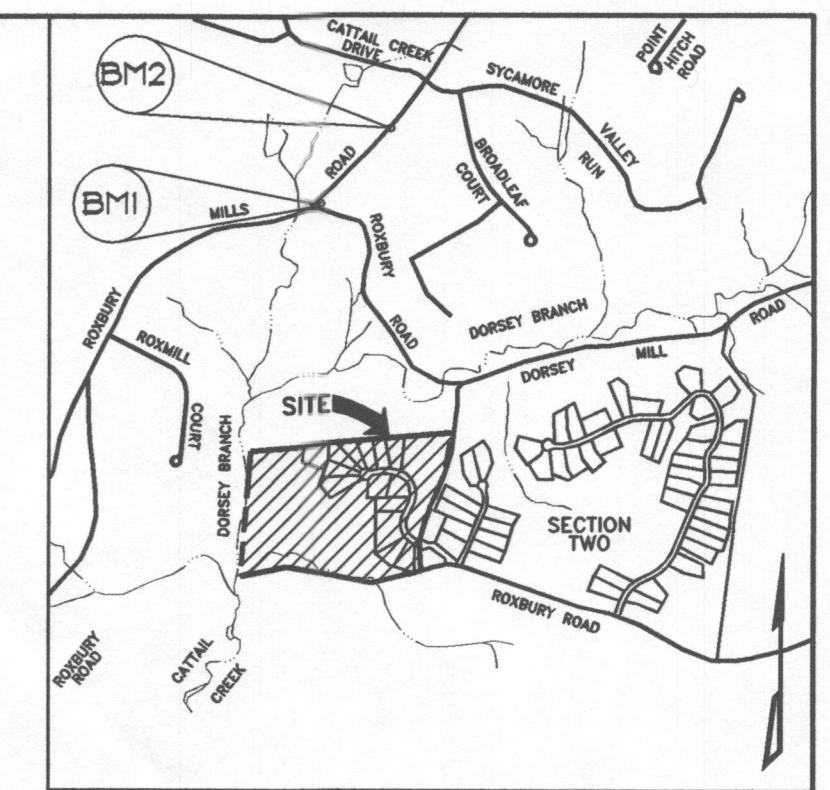


- SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):**
- INVERT @ FOUNDATION WALL: 468.5
 - 600 GPD BNR SYSTEM W/ 750 GALLON PUMP CHAMBER
 EX. GRADE OVER TANK: 464.0 PROPOSED GRADE OVER TANK: 464.0
 INVERT: 457.7
 - DISTRIBUTION BOX
 EX @ PROPOSED GRADE OVER TANK: 460.1
 INVERT: 457.7
 - TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)
 INITIAL SYSTEM: 600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
 USE 3' WIDE TRENCH W/ 12" OF GRAVEL BELOW PIPE
 500 SF / 3' WIDTH = 167 LF (NO SIDEWALL CREDIT) = 167 LF MIN. TRENCH
 9' MIN SPACING BETWEEN TRENCH EDGES
 USE 3 - 56' LONG TRENCH FOR INITIAL SYSTEM
 USE 3 - 56' LONG TRENCH FOR FIRST REPLACEMENT SYSTEM
 USE 3 - 56' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

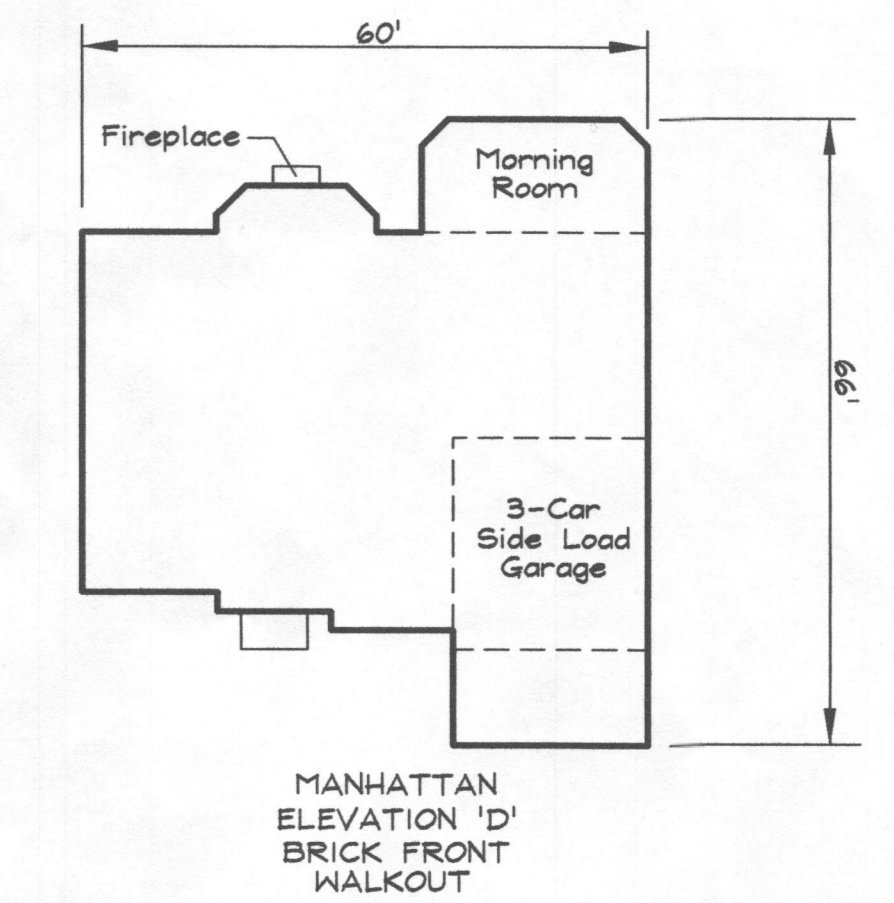
BENCHMARK

BENCHMARK #1	N. 582715.1745
E. 1500446.020	21E4
S.T.A. ELEV.	450.23
BENCHMARK #2	N. 585069.329
E. 1300668.477	21E4
S.T.A. ELEV.	475.95

ADC MAP COORDINATES
 MAP 4812 DSN
 84°04'00", E 76°47'30"



Approved Septic System Plan
 Howard County Health Department
 Hank Oswald
 Signature Date 4/7/15



DRAWING LEGEND

- 500 PROPOSED GRADE
- 502 EXISTING GRADE
- PROPOSED LIMIT OF DISTURBANCE
- + 665.5 PROP. SPOT ELEV./FLOW ARROW
- PROPOSED 20' SEPTIC RESERVE BUFFER
- EXISTING 30' WELL BUFFER
- EXISTING 100' WELL BUFFER
- BUILDING RESTRICTION LINE
- SEPTIC RESERVE AREA
- WELL AREA
- 3011 EX. FAILED PERCOLATION TEST
- 3012 EX. PASSED PERCOLATION TEST

DATA SOURCES:

LOT 6 SYSTEM TRENCH SPECIFICATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A (56')	460.0	456.0	455.0
INITIAL SYSTEM TRENCH B (56')	457.9	453.9	452.9
INITIAL SYSTEM TRENCH C (56')	456.0	452.0	451.0
FIRST REPLACEMENT TRENCH A (56')	458.00	454.0	453.0
FIRST REPLACEMENT TRENCH B (56')	456.50	452.5	451.5
FIRST REPLACEMENT TRENCH C (56')	454.20	450.2	449.2
SECOND REPLACEMENT TRENCH A (56')	452.00	448.0	447.0
SECOND REPLACEMENT TRENCH B (56')	450.1	446.1	445.1
SECOND REPLACEMENT TRENCH C (56')	453.9	449.9	448.9

DDC Development Design Consultants

Planners
 Surveyors
 Engineers
 Landscape Architects

192 East Main Street
 Westminster, MD 21157
 410.386.0560
 410.386.0564 (Fax)
 DDC@DDCinc.us
 www.DDCinc.us

OWNER:
 K. HOVNIANIAN HOMES
 1802 BRIGHTSEAT ROAD
 LANDOVER, MD 20785
 (301)883-6268

BUILDER:
 K. HOVNIANIAN HOMES
 1802 BRIGHTSEAT ROAD
 LANDOVER, MD 20785
 (301)883-6268

SITE ADDRESS:
 15064 DOUBLE BRIDGES COURT
 GLENWOOD, MD 21738

MERIWETHER FARM LOT 6

SITE PLAN FOR BAT INSTALLATION

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. 27020, Expiration Date: 01/25/16

03/31/15
 DATE

PAUL G. CAVANAUGH
 PROFESSIONAL ENGINEER

4TH HOWARD COUNTY

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
CO. FILE # F-08-139	DES. BY: BKC			
TAX ACC. # 1404375173	DRN. BY: BKC			
TAX MAP: 21	CHK. BY: BKC			
BLOCK / GRID: 21	DATE: 03/31/2015			
PARCEL # 24	DDC JOB#: 13085.1			
ZONE / USE: RC-DEO	SHEET NUMBER:			
DWG. SCALE: 1"=30'	1 of 1			