

Bureau of Environmental Health

7178 Gateway Drive (410) 313-2640

Columbia, MD 21046 Fax (410) 313-2648

TDD (410) 313-2323

Toll Free 1-866-313-6300

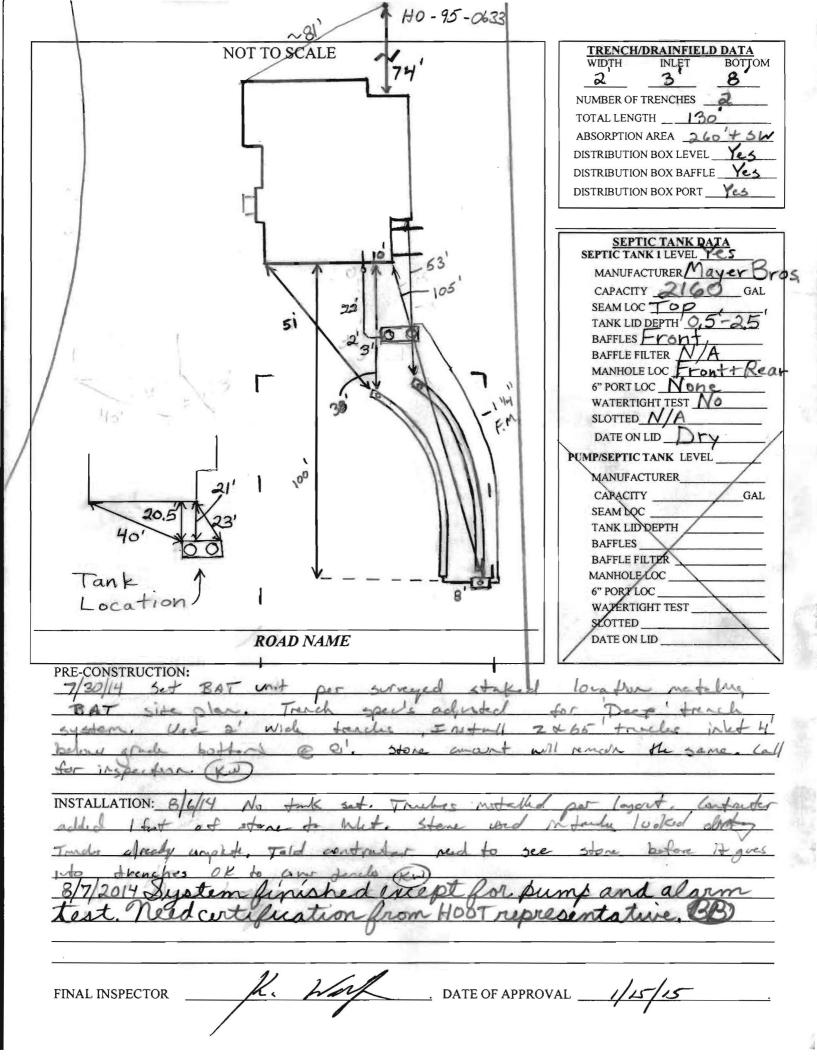
website: www.hchealth.org

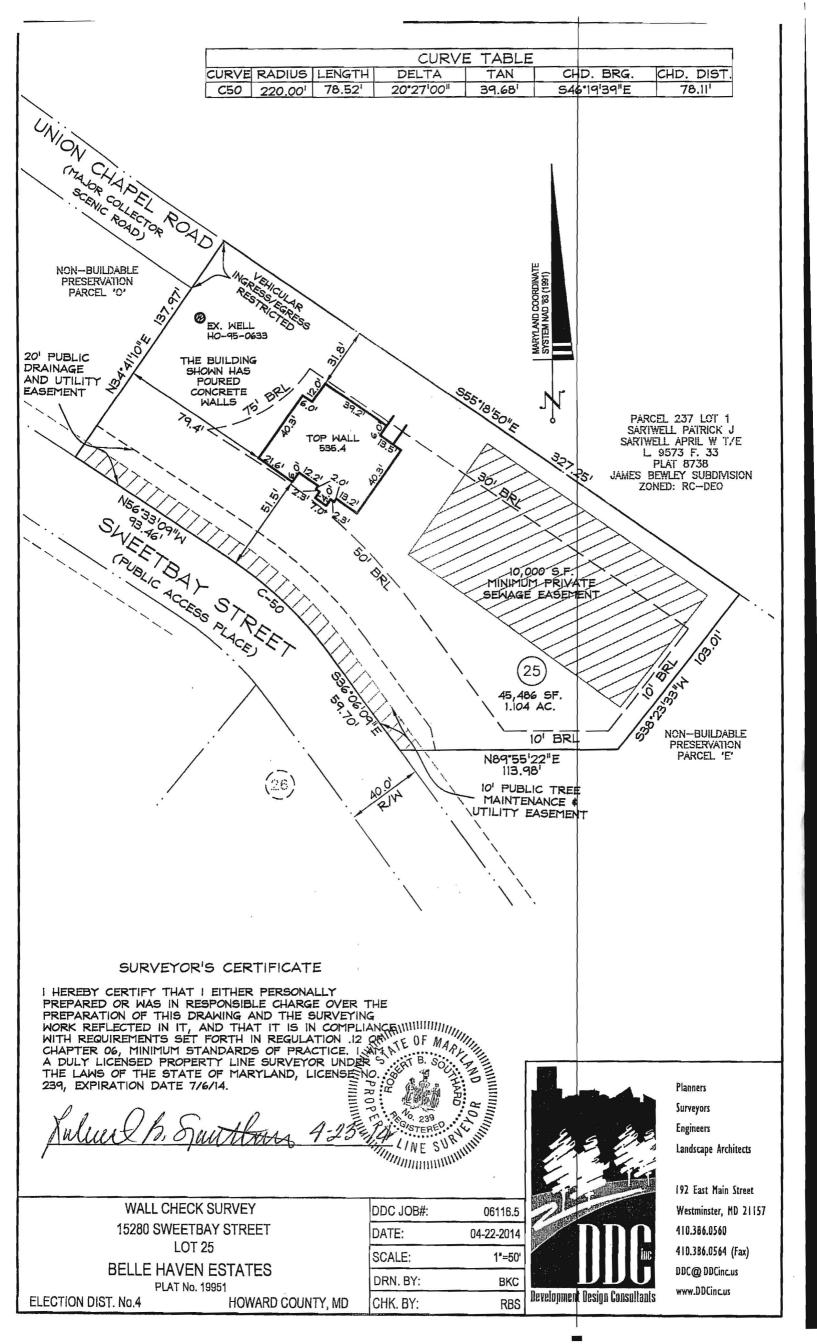
Maura J. Rossman, M.D., Health Officer

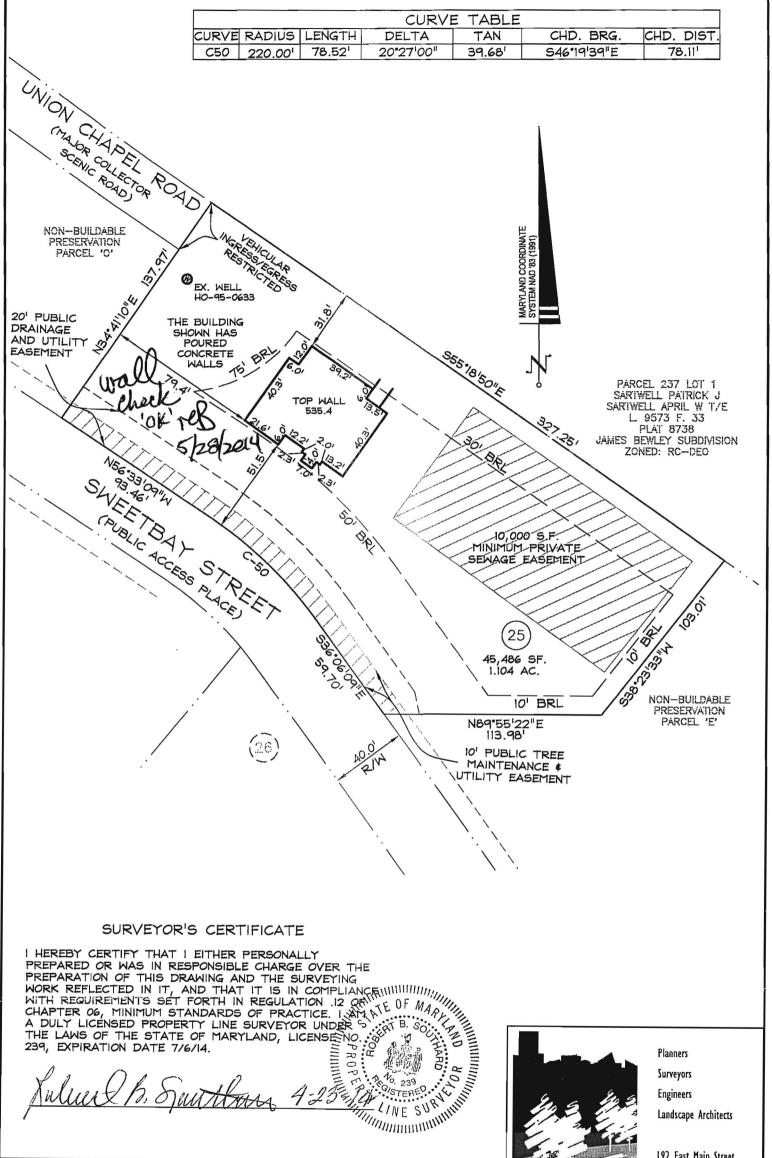
RECEIPT D	ATE: 4/25/14 ONSITE SEW	AGE DISPOSAL SYSTE	P <u>546329</u>	
INSTALLA APPROVAL D		ERMIT	A 516057	
	CO	NSTRUCTION		
	DDRESS: 15280 Sweetbay Street			
SUBDIVISION	Belle Haven Estates	LOT: _	25 TAX ID:	
CONTRACTO	R: McKim Construction	EMAIL: _		
CONTRACTO	R ADDRESS: 38979 Housholder Road,	Lovettsville, VA 20180	PHONE: 540-338-3583	
PROPERTY O	WNER: Belle Haven Baker	EMAIL: _		
OWNER ADD	RESS: 10751 Falls Road Ste. 405, Luth	nerville, MD 21093	PHONE:	
DAT LINUT NAC	ADEL . HOOT BUR COO	DATUM	T C175. TEACHD	
BAT UNIT MODEL: HOOT BNR 600 BAT UNIT SIZE: 750GPD				
PUMP CHAMBER CAPACITY (GALLONS): PUMP SIZE:				
NUMBER OF	BEDROOMS: 4 HOU	SE SQ. FT.	APPLICATION RATE:	
DISTRIBUTIO	N SYSTEM: GRAVITY FED 🔀	LOW PRESSURE DOSED	noby don	
	LINEAR FEET REQUIRED: See Bat Plan	130	INLET DEPTH: See Bat Plan 4	
TRENCHES:	TRENCH WIDTH: See Bat Plan	2 MAXIMUM	BOTTOM DEPTH: See Bat Plan	
	MINIMUM SPACE BETWEEN TRENCHES: See Bat Plan	EFFECTIVE AREA BE	GINNING DEPTH: See Bat Plan	
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSURVEYOR PRIOR TO PRE-CONSTRUCTION		ON MUST BE STAKED BY LICENSED	
	Set BAT unit per plan.	2 × 65	46	
NOTES:	323	0.17.00		
ISSUED BY:	Robert Bricker	ISSUE DATE:	EXPIRATION DATE:	
NOTE: CONT	RACTOR MUST SCHEDULE A PRE-CONSTRU	CTION INSPECTION PRIOR TO BEG	GINNING ANY INSTALLATION	
NOTE: CONT	RACTOR MUST SCHEDULE AN INSPECTION A	AND GAIN APPROVAL OF ALL COM	PONENTS PRIOR TO COVERING	
	E MUST BE APPROVED BY HEALTH DEPARTN	MENT AND GRAVEL TICKET MUST E	SE AVAILABLE FOR REVIEW.	
	RTIGHT SEPTIC TANKS REQUIRED ARTS OF SEPTIC SYSTEM SHALL BE AT LEAST	100 FEET DOWNGRADIENT FROM	ANY WATER WELL	
	HOLE RISERS REQUIRED ON ALL SEPTIC TANI		ADONENTS OF THE SYSTEM	
	ECTRICAL PERMIT IS REQUIRED FOR INSTA			

SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.







WALL CHECK SURVEY 15280 SWEETBAY STREET LOT 25

BELLE HAVEN ESTATES

PLAT No. 19951

ELECTION DIST. No.4

HOWARD COUNTY, MD

DDC JOB#: 06116.5

DATE: 04-22-2014

SCALE: 1*=50'

DRN. BY: BKC

CHK. BY: RBS



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



MAYER BROS., INC.

Precast Concrete Products
6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property 15280 Sweet bay St. Lot #	25
Woodbine, mp. 21797	
Date of Final Inspection: 10/3/14	
Installer Ben Lewis Plumbing Inc.	
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 at it is in proper working order.	nd
Sincerely.	
Name of Inspector Mayer Bros., Inc.	

PH: 410-796-1434

FX: 410-796-1438

WBE NPCA Certified Plant mayerbro@connext.net www.mayerbrosprecast.com



May 09, 2014

Mr. Andrew Geisert Environmental Sanitarian Supervisor Howard County Health Department 8930 Stanford Blvd. Columbia, MD 21045

Reference:

Belle Haven Estates, Lot 25

15280 Sweetbay Street

BAT Site Plan

DDC Project No.:

06116.5

Mr. Geisert,

The following are responses to comments issued on May 2nd, 2014 (via email) for the above referenced project.

Comment: Site Plan Scale was missing. Should be 1"=30'

Response: A scale has been added to the plan view.

Landscape Architects

Comment: Label on overhead view - 522.7 as invert elevation

192 East Main Street Westminster, MD 21157

Planners

Surveyors Engineers

Response: Per our phone discussion this comment was withdrawn.

410 386 0560

Comment: Piping slope % from tank to D-box

Fax 410 386 0564

Response: Pipe slope from the tank to the D-box and from D-box to the drain field has

been added to the profile.

DDC@DDCinc.us www.DDCinc.us

Comment: Fill Depth over D-box

Response: The existing grade in the profile has been labeled to clearly delineate the

depth of fill over the D-Box

Comment: Compare "to drain field inv 523.7" with "522.7" invert elevation in specs.

Response: The invert elevation in the profile was separated from the "to drain field"

label to eliminate confusion.

We believe these responses adequately address your comments. Should you have any

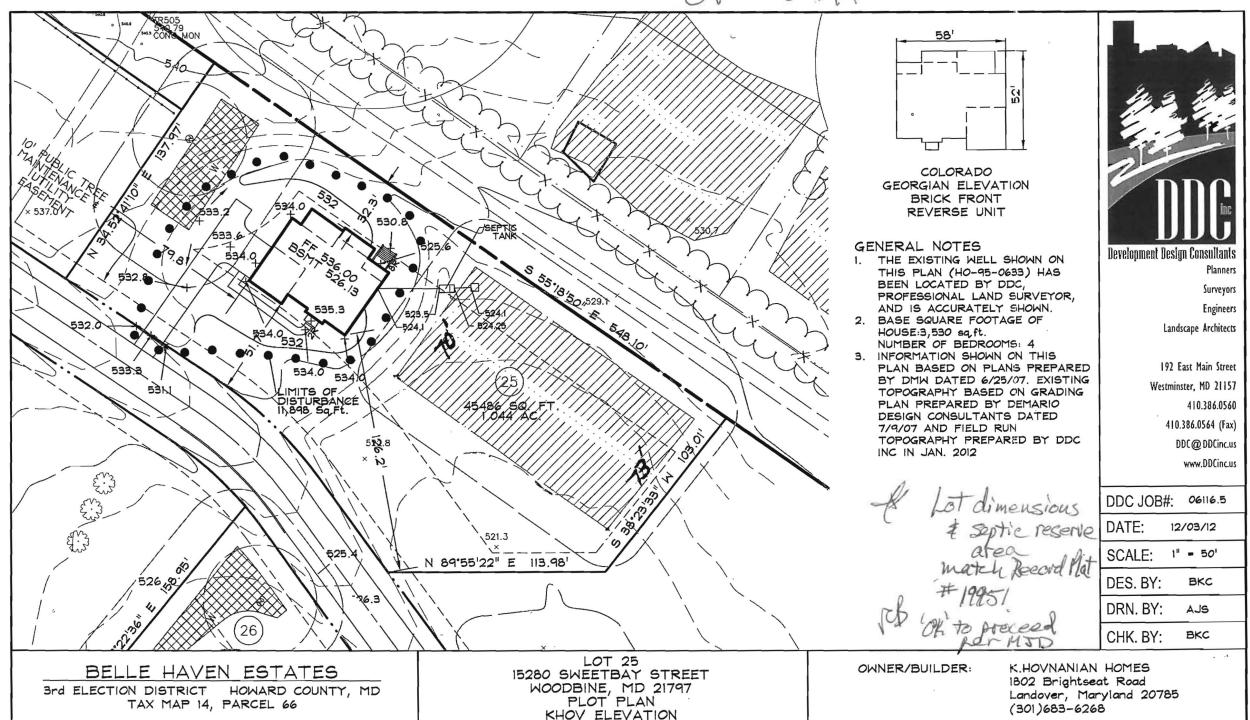
questions please do not hesitate to contact this office.

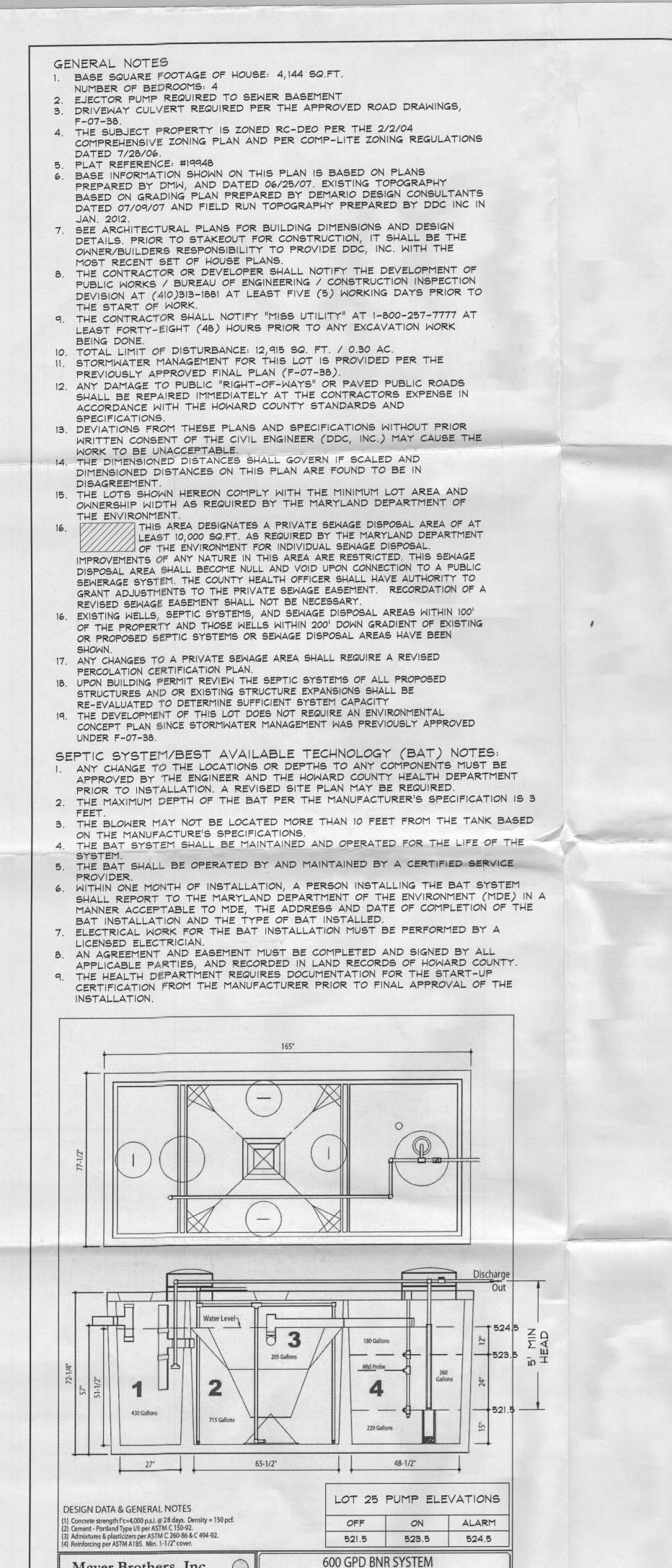
Very truly yours.

Development Design Consultants, Inc.

Joshua H. Kline, E.I. Engineer

10K 108 12/12



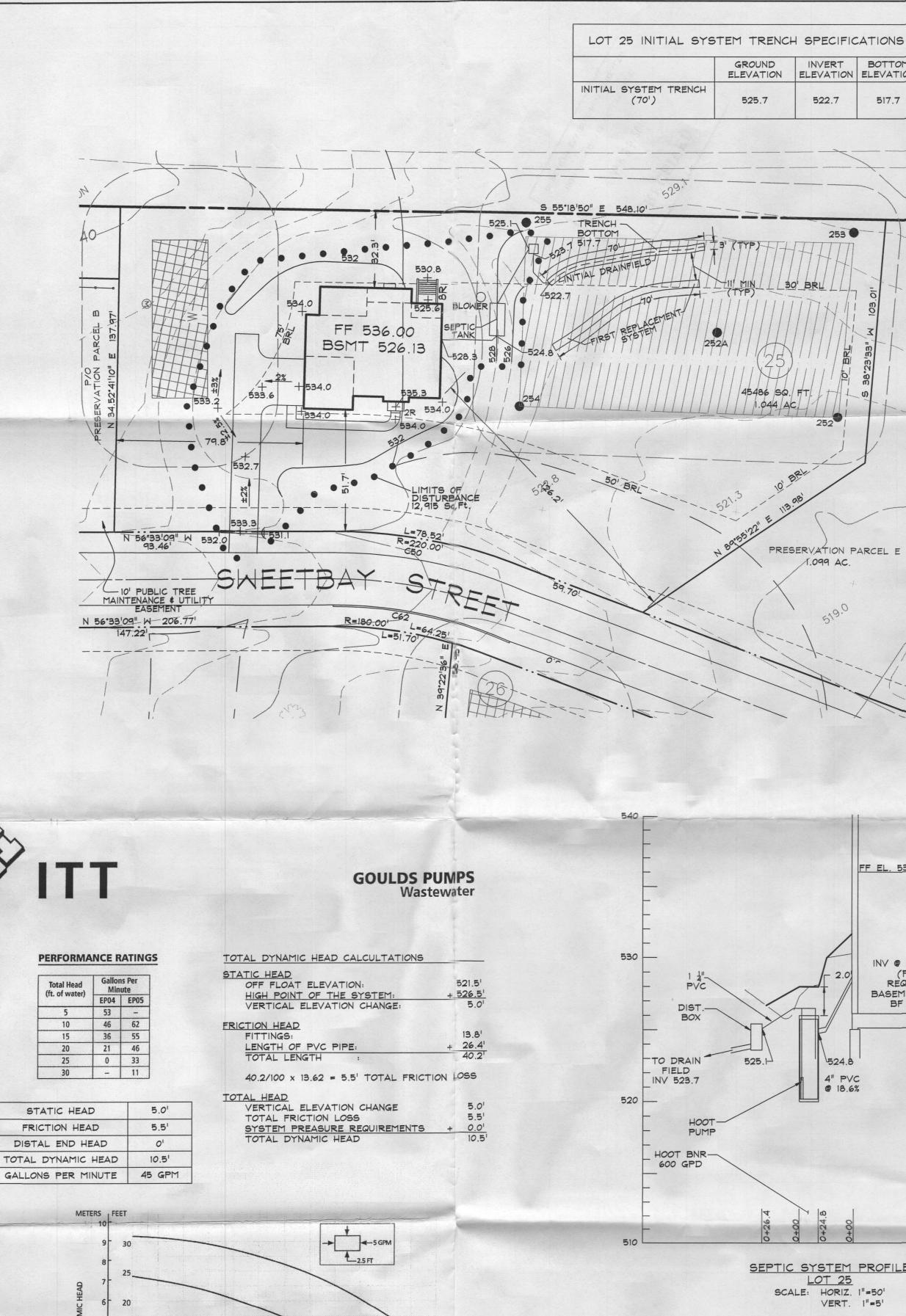


H-600 ABNR

with 750 GALLON PUMP CHAMBER

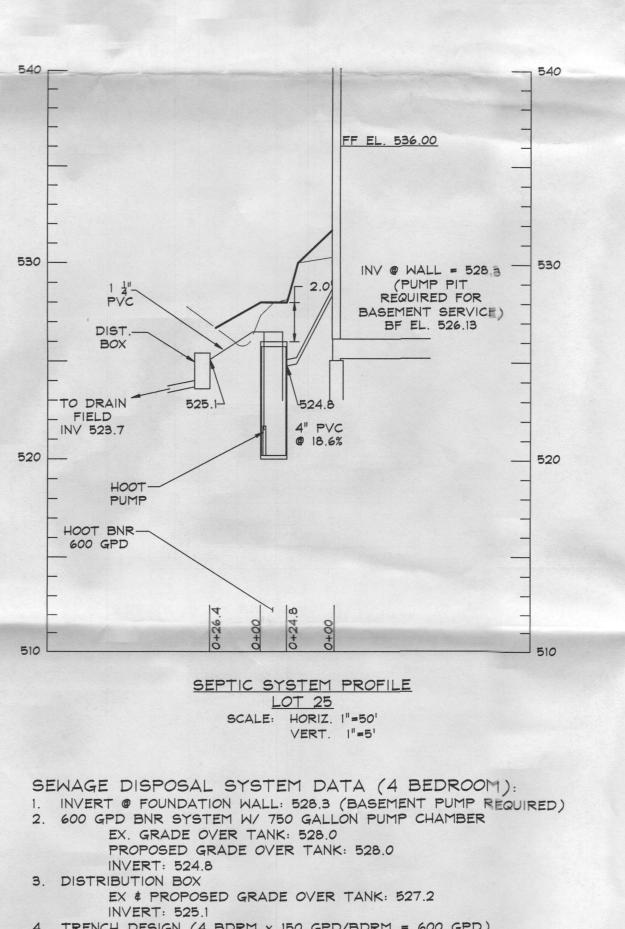
March 19, 2009

Dwg. No. Hoot Form #1 No Scale



EP05

CAPACITY



INVERT BOTTOM

522.7

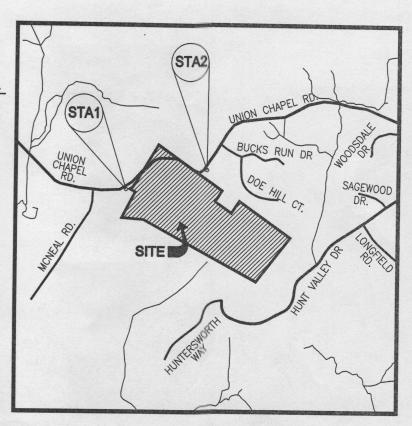
253

ELEVATION ELEVATION

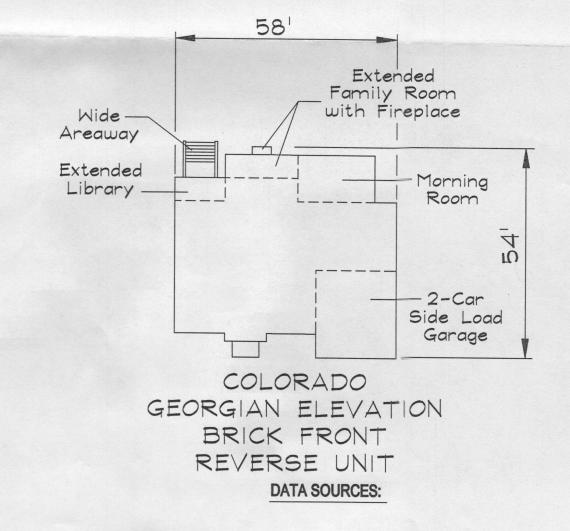
517.7

4. TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD) 600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF USE 3' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE 11' MIN SPACING BETWEEN TRENCH EDGES 500 SF / 3' WIDTH = 166.67 LF x 0.42 = 70 LF MIN. TRENCH USE 1 - 70' LONG TRENCH = 70 LF FOR INITIAL SYSTEM USE 1 - 70' LONG TRENCH = 70 LF FOR FIRST REPLACEMENT SYSTEM BENCHMARK

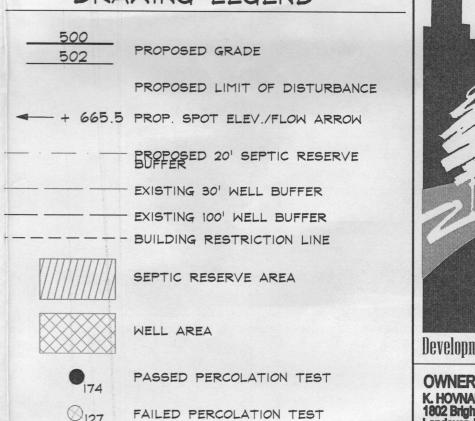
GEODETIC SURVEY CONTROL #1
N. 591450.42 1297571.25 A.A. ELEV. 14GA 535.43 **GEODETIC SURVEY CONTROL #2** 1299121.60 ELEV. 542.23 ADC MAP COORDINATES 4812/C4



VICINITY MAP SCALE: 1" = 2000'







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

K. HOVNANIAN HOMES 1802 Brightseat Road Landover, Maryland 20785 (301) 683-6268

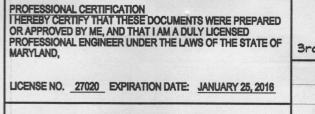
SITE ADDRESS:

DEVELOPER:

15280 Sweetbay Street Woodbine, Maryland 21797

BELLE HAVEN ESTATES

LOT 25



03/26/2014 DATE PAUL G. CAVANAUGH 3rd ELECTION DISTRICT HOWARD COUNTY REVISIONS

NO. DESCRIPTION OF C	HANGES DRN. REV. DATE		
CO. FILE #:	DES. BY: JHK		
TAX ACC.#:	DRN. BY: BKC		
TAX MAP: 14	CHK. BY: PGC		
BLOCK / GRID:	DATE: 03/26/14		
PARCEL#: 66	DDC JOB#: 06116.5		
ZONE / USE: RC-DEO	SHEET NUMBER:		
DWG. SCALE: 1"=30"	1 of 1		

Elkridge, Maryland 21075

Fax. 410.796.1438

Mayer Brothers, Inc.

www.mayerbrosprecast.com

GENERAL NOTES 1. BASE SQUARE FOOTAGE OF HOUSE: 4,144 SQ.FT. NUMBER OF BEDROOMS: 4 2. EJECTOR PUMP REQUIRED TO SEWER BASEMENT 3. DRIVEWAY CULVERT REQUIRED PER THE APPROVED ROAD DRAWINGS, 4. 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. 5. PLAT REFERENCE: #19948 6. BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DMW, AND DATED 06/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS DATED 07/09/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012. 7. 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. 8. THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEVELOPMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DEVISION AT (410)313-1881 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. 9. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. 10. TOTAL LIMIT OF DISTURBANCE: 12,915 SQ. FT. / 0.30 AC. 11. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-38). 12. ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS. 13. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (DDC, INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE. 14. THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN 15. 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

16. 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

CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.

ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT

2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3

3. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED

4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE

WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM

APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.

SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A

MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE

5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE

7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A

8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL

17. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED

18. 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

19. THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL

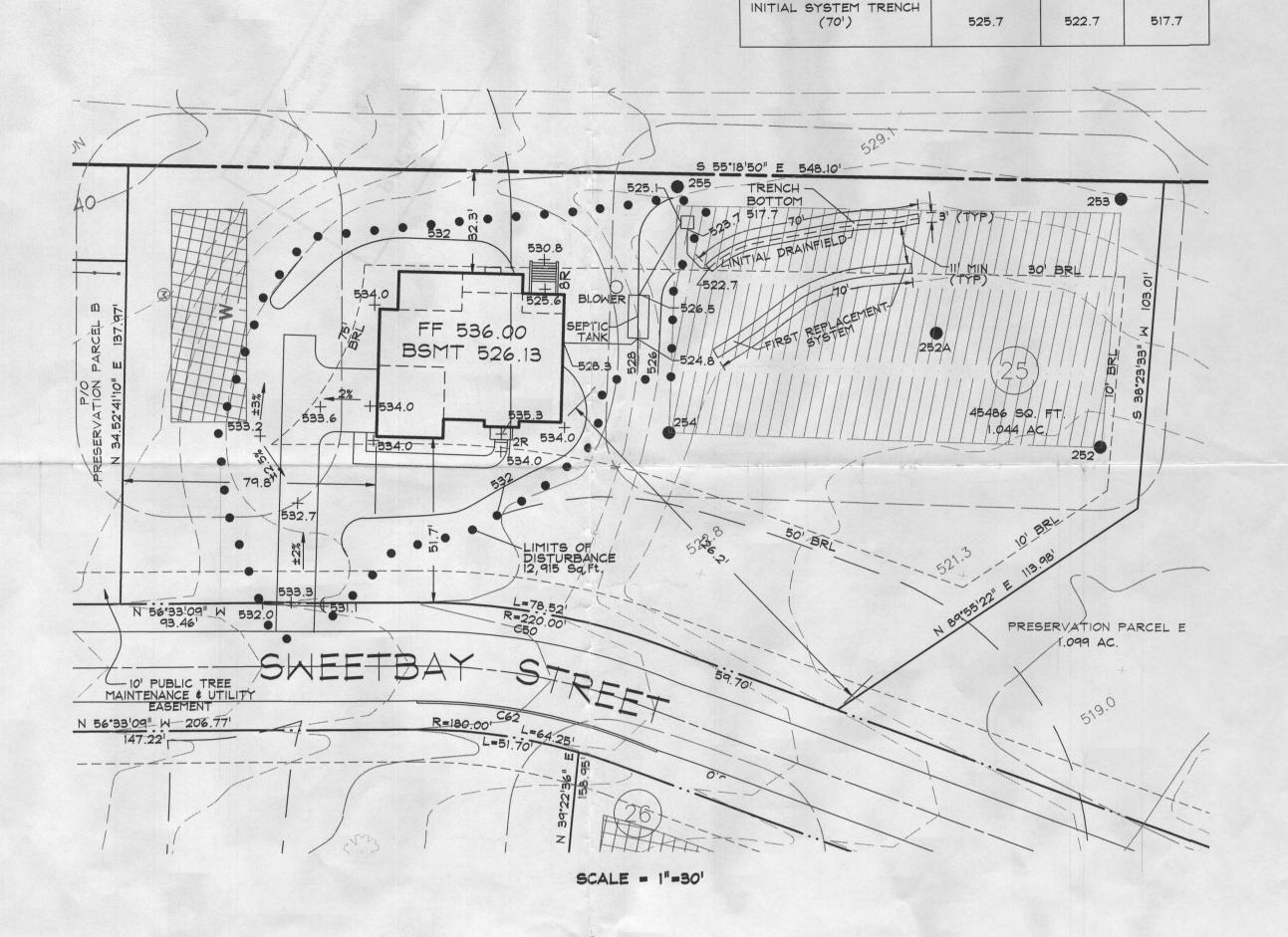
BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.

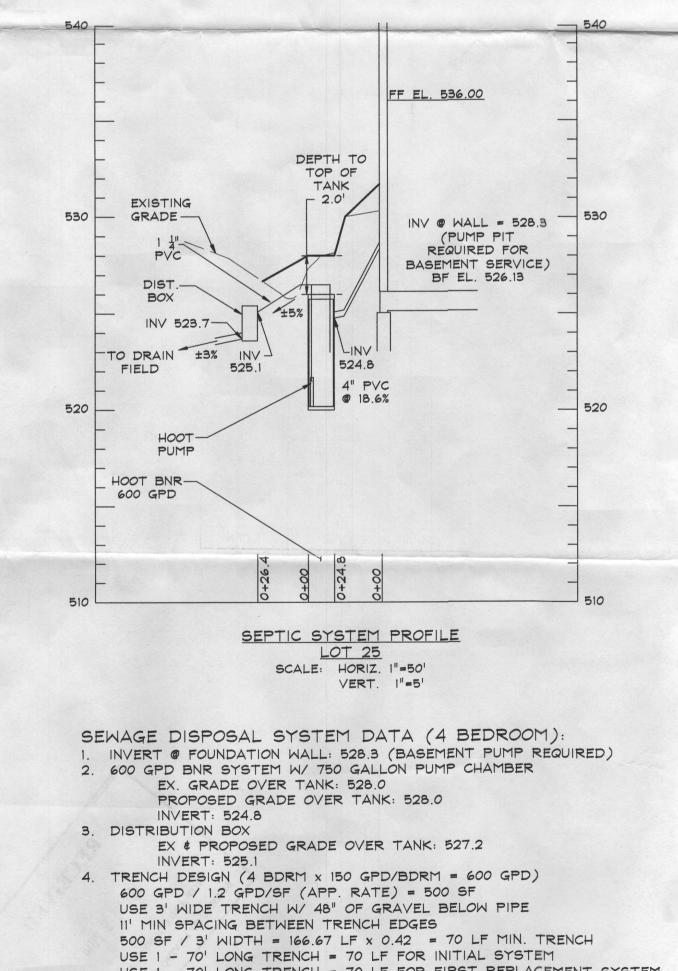
REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

PERCOLATION CERTIFICATION PLAN.

ON THE MANUFACTURE'S SPECIFICATIONS.

LICENSED ELECTRICIAN.

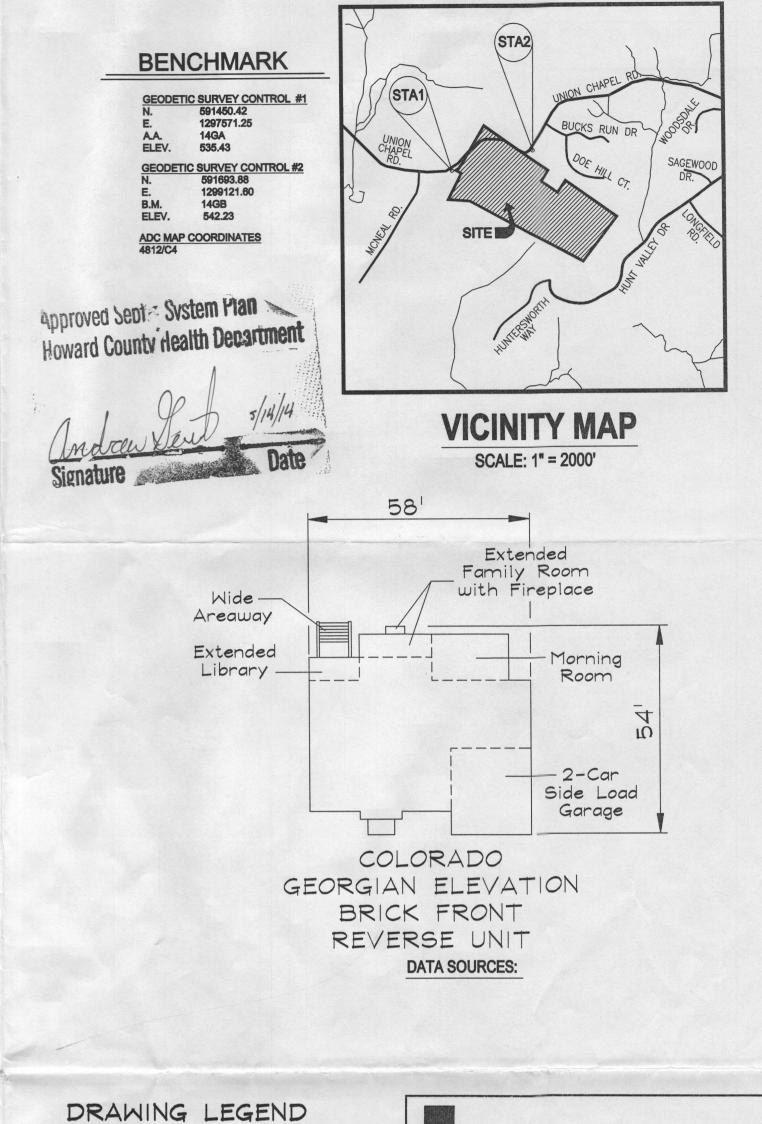


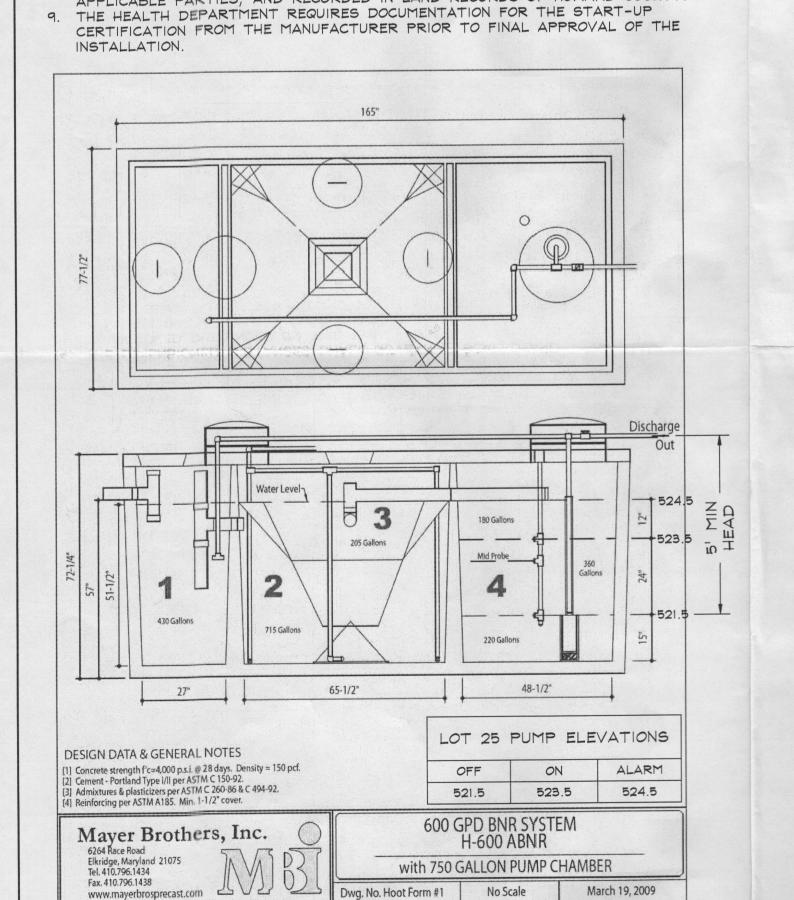


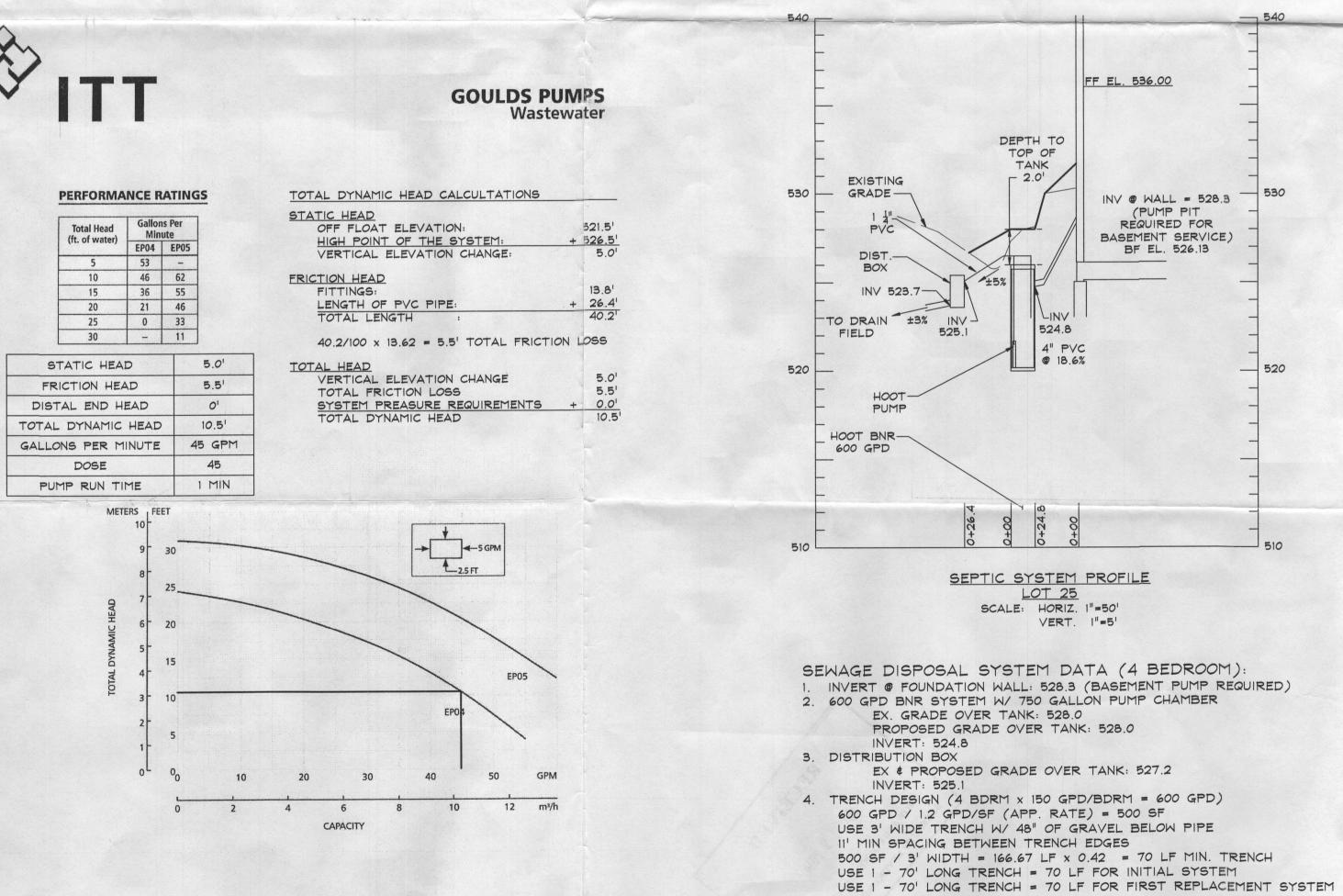
LOT 25 INITIAL SYSTEM TRENCH SPECIFICATIONS

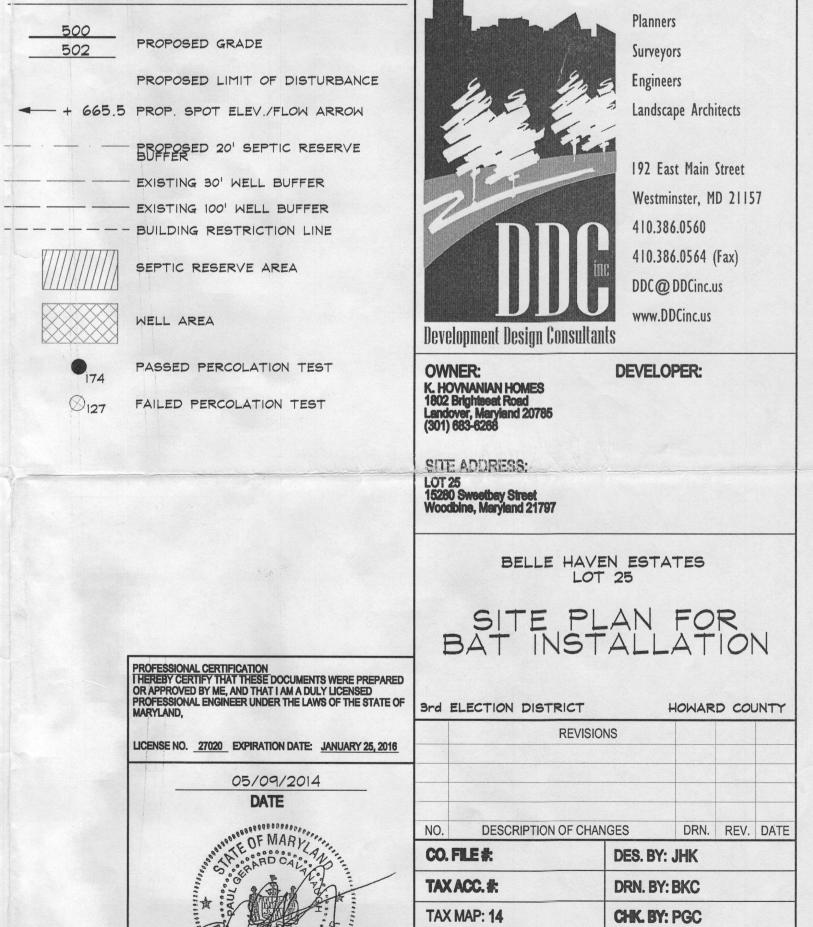
GROUND INVERT BOTTOM

ELEVATION ELEVATION









BLOCK / GRID:

PARCEL#: 66

PAUL G. CAVANAUGH

ZONE / USE: RC-DEO

DWG. SCALE: 1"=30"

DATE: 05/09/14

DDC JOB#: 06116.5

SHEET NUMBER: