

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 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 DATE: 6/24/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 554522

INSTALLATION APPROVAL DATE: 1/23/2015 **PERMIT** A _____

CONSTRUCTION

PROPERTY ADDRESS: 15059 Double Bridges Court

SUBDIVISION: Meriwether Farm Section 1 LOT: 7 TAX ID: _____

CONTRACTOR: Ben Lewis Plumbing EMAIL: _____

CONTRACTOR ADDRESS: 23407 Frederick Road, Clarksburg, MD 20871 PHONE: 301-674-3324

PROPERTY OWNER: K Hovnanian Homes EMAIL: _____

OWNER ADDRESS: 1802 Brightseat Road, Landover, MD 20785 PHONE: 301-683-6268

BAT UNIT MODEL: HOOT ABNR 600 BAT UNIT SIZE: 600 GPD

PUMP CHAMBER CAPACITY (GALLONS): _____ PUMP SIZE: _____

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>156'</u>	INLET DEPTH: <u>SEE BAT PLAN 3.5'</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 6.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 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:	Set BAT unit per plan. Set distribution box per plan. Install equal length trenches on contour. <u>2x78' Trenches</u>	

ISSUED BY: Dana Bernard 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 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

**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'	6.5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		150'
ABSORPTION AREA		450+Sidewalk
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

See As-Built Drawing
On Separate Sheet

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes
 MANUFACTURER Mayer Bros
HOBT
 CAPACITY ~2,100 GAL
 SEAM LOC Top
 TANK LID DEPTH 1.5'-2.5'
 BAFFLES Front
 BAFFLE FILTER N/A
 MANHOLE LOC Front+Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 SLOTTED N/A
 DATE ON LID Dry

~~PUMP/SEPTIC TANK LEVEL N/A~~

~~MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____~~

ROAD NAME

PRE-CONSTRUCTION:

10/1/2014 Easement and tank location staked. Septic easement is wooded. Trees to be removed for first trenches to be installed were marked (BB) 10/9/2014 Trees removed. Install two 78' trenches on contour across highest part of septic easement. Set tank as shown on BAT plan. (BB)

INSTALLATION:

11/3/2014 Trenches installed and connected to the dist. box. (BB)

11/5/2014 Tank set. Plumbing to house and dist. box done. Need BAT approval from Mayer Bros. (BB)

1/23/2015 Received BAT approval notification from Mayer Brothers. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 1/23/2015

HO-95-1695

108'

88'

15059
Double
Bridges
Court

8'

11.5'

43'

52'

13.5'

45.5'

8'

8'

25'

22'

6.5'

12'

11.5'

31.5'

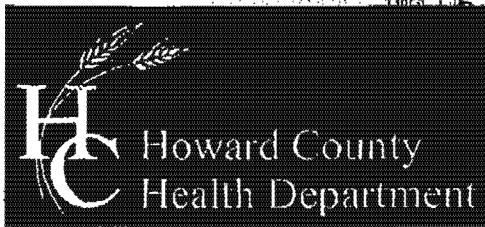
51.5'

6.5'

75'

75'





15651 FOLIO 374

000213

Bureau of Environmental Health
7178 Columbla Gateway Drive, Columbla, MD 21046-2147
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 23rd day of JUNE 2014, among K. Hounnawin of Howard County Maryland LLC, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

2680

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 15059 Double Belongs Ct. Glverly, MD 21737, in the 04 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 15416 Folio 473. 04/375149
lot 7

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.

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 a

HOWARD COUNTY CIRCUIT COURT (Land Records) WAR 15651, p. 0375, MSA_CE53_15642. Date available 06/27/2014. Printed 01/14/2015.

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.

Owner

Date

Ben Ryan 6/24/2014
Howard County Health Department

Steve Smygel 6-23-14

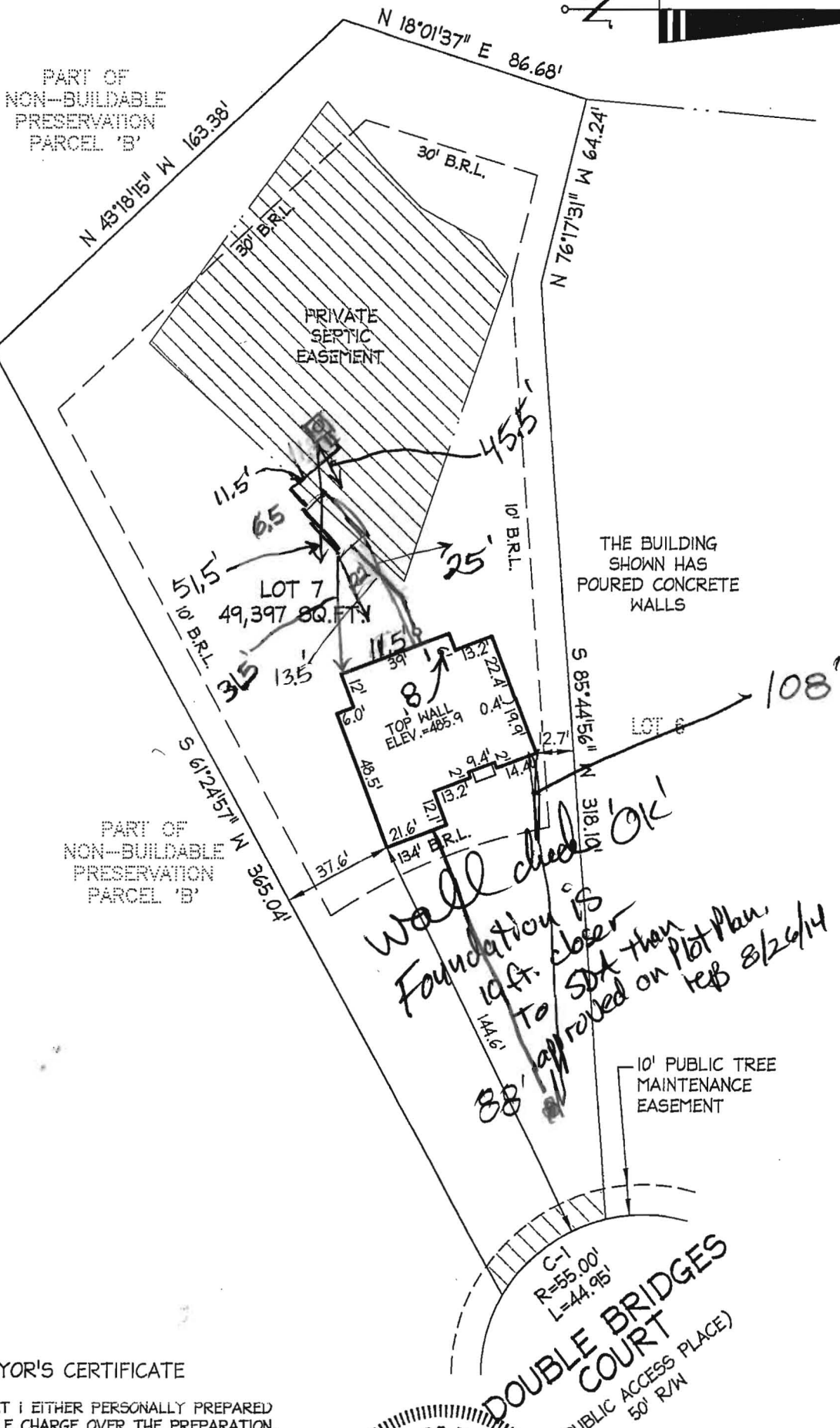
Owner
Date

STEVE SMYDEL
VICE PRESIDENT
K/REINFORCED HOMES OF MARYLAND LLC

LR - Agreement 20.00
Recording Fee 20.00
Grantor/Grantee Name:
K/Reinforced Homes of
Maryland
Reference/Control #: 218
LR - Agreement 42.00
Surcharge 00.00
SubTotal: 62.00
Total: 82.27
06/24/2014 02:27 CC13-05
#2953610 C06503 -
Howard Co
Columbia/CO65-03-07 -
Register 07

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C-1	55.00'	44.95'	46°49'31"	23.81'	S 36°44'45" E	43.71'

MARYLAND COORDINATE SYSTEM
NAD'83



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 7/6/14.

Robert B. Southard 5-27-14



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



Planners
Surveyors
Engineers
Landscape Architects

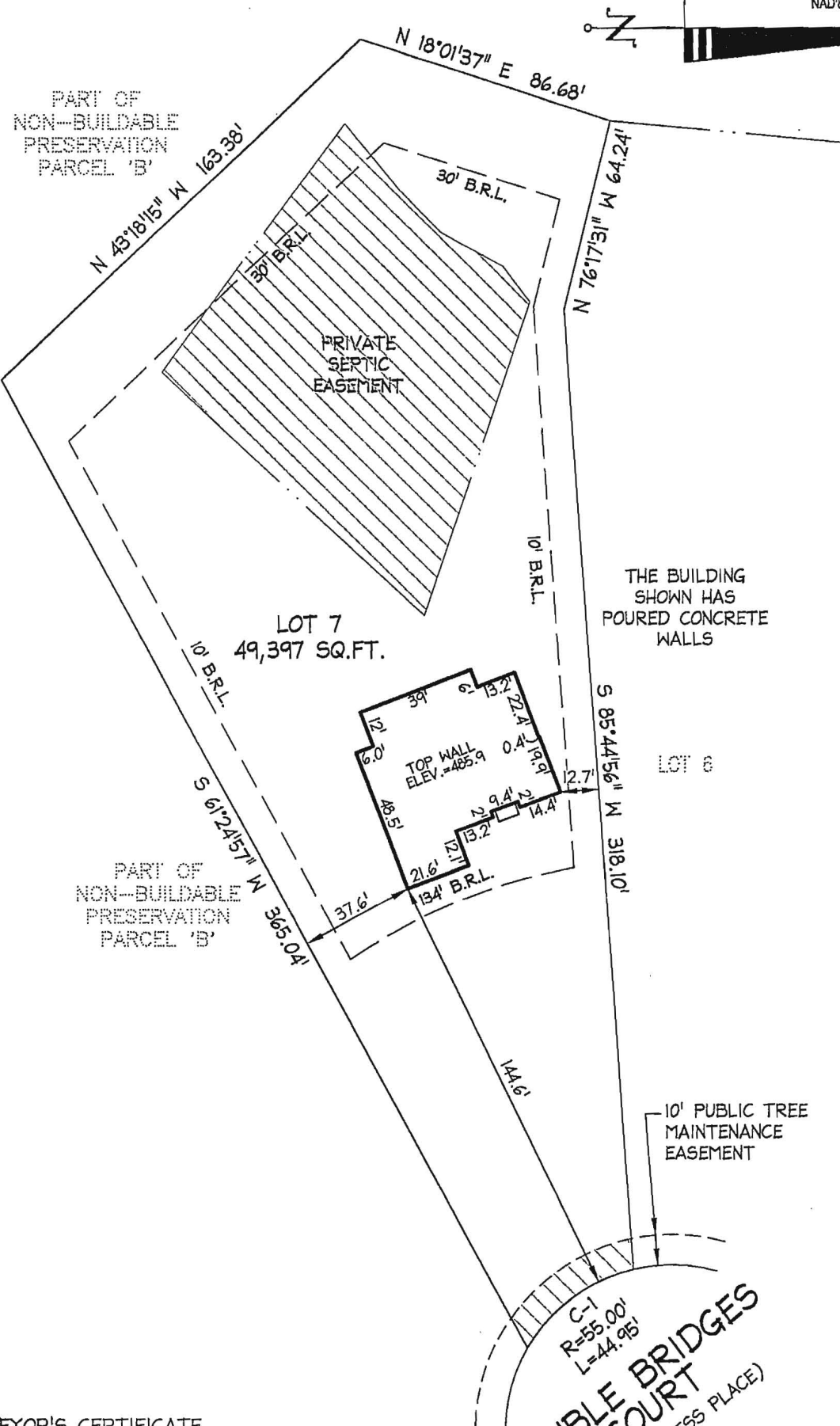
192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

WALL CHECK SURVEY
#15059 DOUBLE BRIDGES COURT
LOT 7
MERIWETHER FARM
SECTION ONE
PLAT NO. 21343
4TH ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	13085.2
DATE:	05/15/2014
SCALE:	1"=50'
CHK. BY:	RBS
DRN. BY:	RC

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
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Robert B. Southard 5-27-14



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



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
#15059 DOUBLE BRIDGES COURT
LOT 7
MERIWETHER FARM
SECTION ONE
PLAT NO. 21343
4TH ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	13085.2
DATE:	05/15/2014
SCALE:	1"=50'
CHK. BY:	RBS
DRN. BY:	RC

Letter of Satisfaction

Hoot System Installation

Address of Property: 15059 Double Bridges Ct.
Glennely, MD. 21737

Date of Final Inspection: 11/19/14

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 and it is in proper working order.

Sincerely,

H. Michael Day
Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

WBE
NPCA Certified Plant

mayerbro@connext.net
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, PermEntry Basement Entries,
Seapewal Window Wells, Custom Precast Products

15059 Double Bridges Ct

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: Khovnanian Homes
of Maryland
Reference/Control #: 209

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 210

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 211

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 212

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 213

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 300.00
Total: 300.00
=====

REV-Check-BOA 60.00

Number : 00016427

REV-Check-BOA 60.00

Number : 00016426

REV-Check-BOA 60.00

Number : 0016425

REV-Check-BOA 60.00

Number : 00016424

REV-Check-BOA 60.00

Number : 00045404

06/24/2014 14:24

CC13-DS

#2959610 /1246/109

Thank you for visiting us today~

FTFinksburg Dispatch
410-833-4400Finksburg Sales
410-833-4400Land Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX
410-833-4909BILLING INQUIRIES
1-800-762-2294

TICKET #00332272

STATION FT

DATE 11/03/14 TIME 06:18:36

CUSTOMER LEW BEN
BEN LEWIS, INC.
23407 FREDERICK RD
CLARKSBURG, MD 20871JOB REFERENCE : MERIWEATHER FARMS
P.O. # 31232 PROJECT #:
15059 DOUBLE BRIDGE CT LT#7 GLENWOODTRUCK 471A LICENSE
DRIVER: KRUG'S TRUCKING

3 AXLES

ANDY 301-674-3324

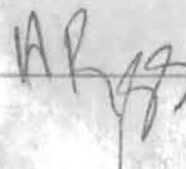
				Loads	Tons
GROSS	SCALE A	69640 lb	DAILY	1	21.89
TARE	IN (STORED)	25860 lb	TOTAL	7	153.14
NET		43780 lb	TIME IN 06:18:36		TIME OUT 06:18:36
NET		21.89 t			

MAT'L 022W : #2 STONE-DOUBLE WASHED
HAUL ZONE L-10

WEIGHMASTER

Jim Cooke

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FT

Finksburg Dispatch
410-833-4400

Finksburg Sales
410-833-4400

Land Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX
410-833-4909

BILLING INQUIRIES
1-800-762-2294

TICKET #00332273

STATION FT

DATE 11/03/14 TIME 06:25:06

CUSTOMER LEW BEN
BEN LEWIS, INC.
23407 FREDERICK RD
CLARKSBURG, MD 20871

JOB HERFAR : HERIVEATHER FARMS
P.O. # 31232 PROJECT #:
15059 DOUBLE BRIDGE CT LT#7 GLENWOOD

TRUCK 448A LICENSE
DRIVER: K.D. CAPLE

3 AXLES

ANDY 301-674-3324

GROSS	SCALE A	70000 lb
TARE	IN (STORED)	24300 lb
NET		45700 lb
NET		22.85 t

	Loads	Tons
DAILY	2	44.74
TOTAL	8	175.99
TIME IN 06:25:06		TIME OUT 06:25:06

MAT'L 022W : #2 STONE-DOUBLE WASHED
HAUL ZONE L-10

WEIGHMASTER

Jim Cooke

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FTFinksburg Dispatch
410-833-4400Finksburg Sales
410-833-4400Land Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPYFAX
410-833-4909BILLING INQUIRIES
1-800-762-2294**TICKET #00332293**

STATION FT

DATE 11/03/14 TIME 08:07:03

CUSTOMER LEWBEN
BEN LEWIS, INC.
23407 FREDERICK RD
CLARKSBURG, MD 20871**JOB MERFAR : MERIWEATHER FARMS**
P.O. # 31232 PROJECT #:
15059 DOUBLE BRIDGE CT LT#7 GLENWOOD**TRUCK 471A LICENSE**
DRIVER: KRUG'S TRUCKING

3 AXLES

ANDY 301-674-3324

GROSS	SCALE A	69840 lb
TARE	IN (STORED)	25860 lb
NET		43980 lb
NET		21.99 t

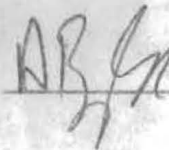
	Loads	Tons
DAILY	4	89.07
TOTAL	10	220.32
TIME IN	08:07:03	TIME OUT 08:07:03

MAT'L 022V : #2 STONE-DOUBLE WASHED
HAUL ZONE L-10

WEIGHMASTER

Jim Cooke

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FT

Finksburg Dispatch
410-833-4400

Finksburg Sales
410-833-4400

Land Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal
FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX
410-833-4909

BILLING INQUIRIES
1-800-762-2294

TICKET #00332274

STATION FT

DATE 11/03/14 TIME 06:27:53

CUSTOMER LEW BEN
BEN LEWIS, INC.
23407 FREDERICK RD
CLARKSBURG, MD 20871

JOB MERFAR : MERIWEATHER FARMS
P.O. # 31232 PROJECT #:
15059 DOUBLE BRIDGE CT LT#7 GLENWOOD

TRUCK 464A LICENSE 3 AXLES
DRIVER: FULL SPECTRUM SER. - FS18

ANDY 301-674-3324

GROSS	SCALE A	68900 lb
TARE	IN (STORED)	24220 lb
NET		44680 lb
NET		22.34 t


	Loads	Tons
DAILY	3	67.08
TOTAL	9	198.33
TIME IN 06:27:53		TIME OUT 06:27:53

MAT'L 022W : #2 STONE-DOUBLE WASHED
HAUL ZONE L-10

WEIGHMASTER

Jim Cooke

RECEIVED BY



0627

E-7:16

FTFinksburg Dispatch
410-833-4400Finksburg Sales
410-833-4400Land Sand & Gravel, Inc. /
S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX
410-833-4909BILLING INQUIRIES
1-800-762-2294**TICKET #00332298**

STATION FT

DATE 11/03/14 TIME 08:28:56

CUSTOMER LEW BEN
BEN LEWIS, INC.
23407 FREDERICK RD
CLARKSBURG, MD 20871**JOB MERFAR : MERIWEATHER FARMS**
P.O. # 31232 PROJECT #:
15059 DOUBLE BRIDGE CT LT#7 GLENWOOD**TRUCK 464A LICENSE** 3 AXLES
DRIVER: FULL SPECTRUM SER. - FS18

ANDY 301-674-3324

			Loads	Tone
GROSS	SCALE A	69260 lb	DAILY 5	111.59
TARE	IN (STORED)	24220 lb	TOTAL 11	242.84
NET		45040 lb	TIME IN 08:28:56	TIME OUT 08:28:56
NET		22.52 t		

MAT'L 022W : #2 STONE-DOUBLE WASHED
HAUL ZONE L-10

WEIGHMASTER

Jim Cooke

RECEIVED BY





MID-ATLANTIC AREA

COLORADO

REVISION DATE: 11-21-2013

1CO

2012 INTERNATIONAL RESIDENTIAL CODE

FOR SEPTIC PERMIT

" THE LOCAL JURISDICTION SHALL FILL IN THIS TABLE WITH LOCAL CLIMATIC AND GEOGRAPHIC CRITERIA "

2012 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:											
GROUND SNOW LOAD	WIND SPEED (mph)		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP.	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed (mph)	Topographic Effects		Weathering	Frost Line Depth	Termites					
	30		A & B								

ACI

KV_003_3258_COLORADO

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SCALE:
 1/8" = 1'-0" @ 11 x 17
 1/4" = 1'-0" @ 24 X 36

NOTES:
 • W/ OPT. 2ND FLOOR WINDOWS
 REMAIN AT T-0 3/8" HEAD
 HEIGHT W/ WINDOW SIZES AS
 SHOWN.
 • SEE ELEVATIONS FOR FOYER
 WINDOW HEAD HEIGHT.

SHEET NUMBER	5A2
SCALE	
DRAWN BY	ACI
DATE	02-01-12

REV.#	DATE	REMARKS

REV.#	DATE	REMARKS

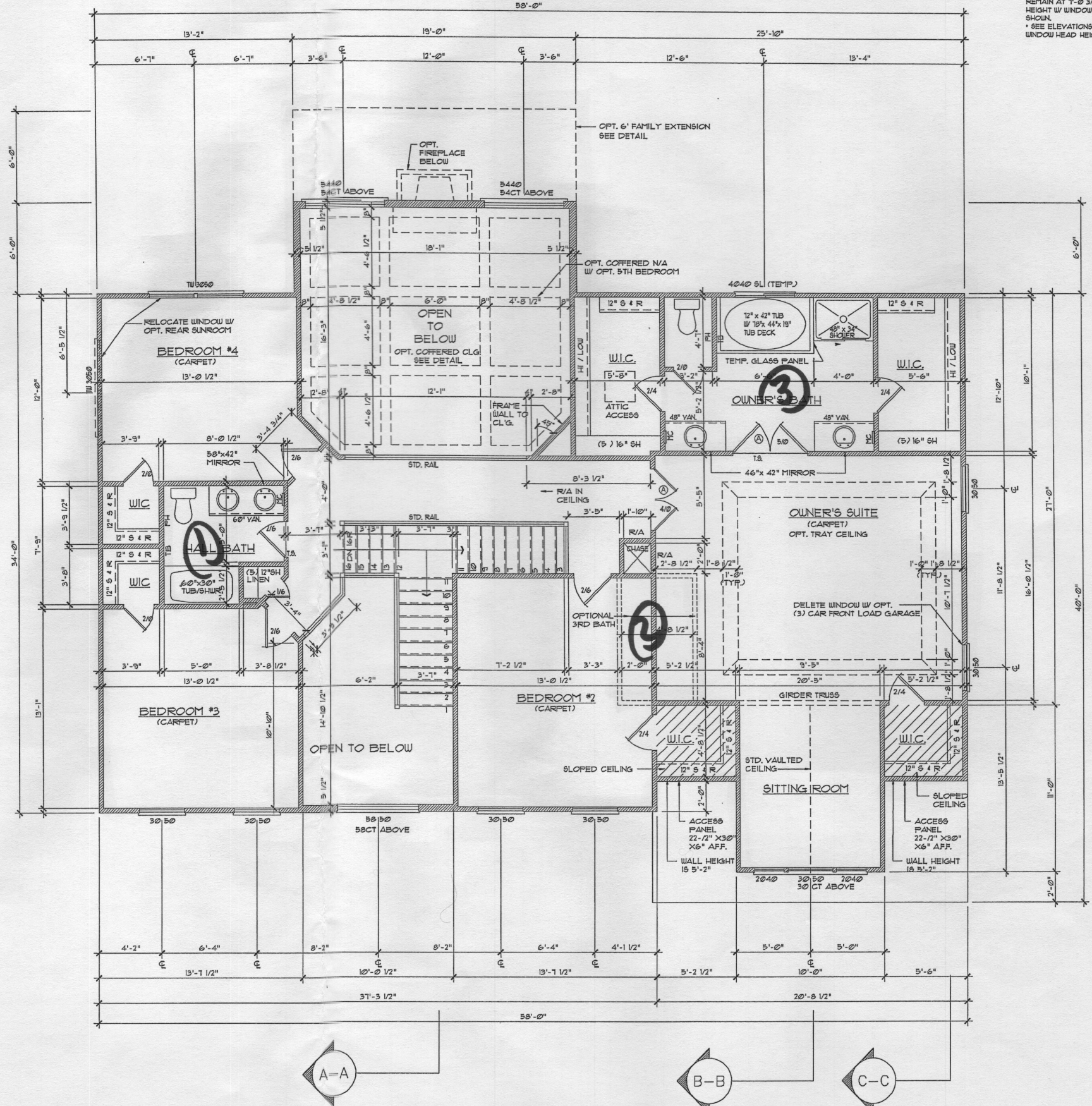
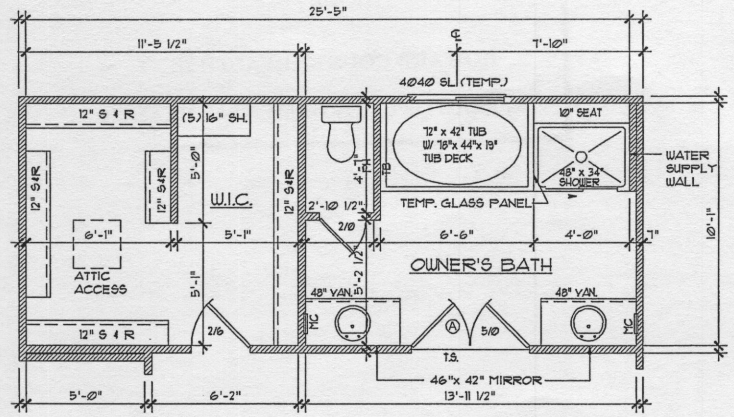
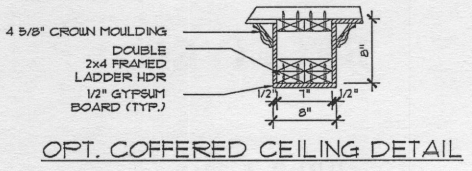
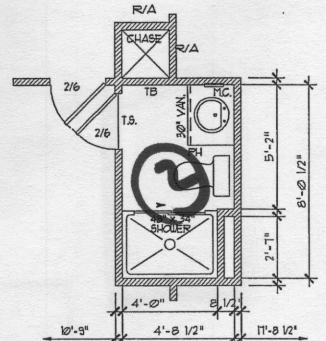
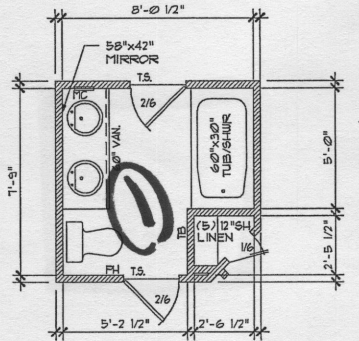
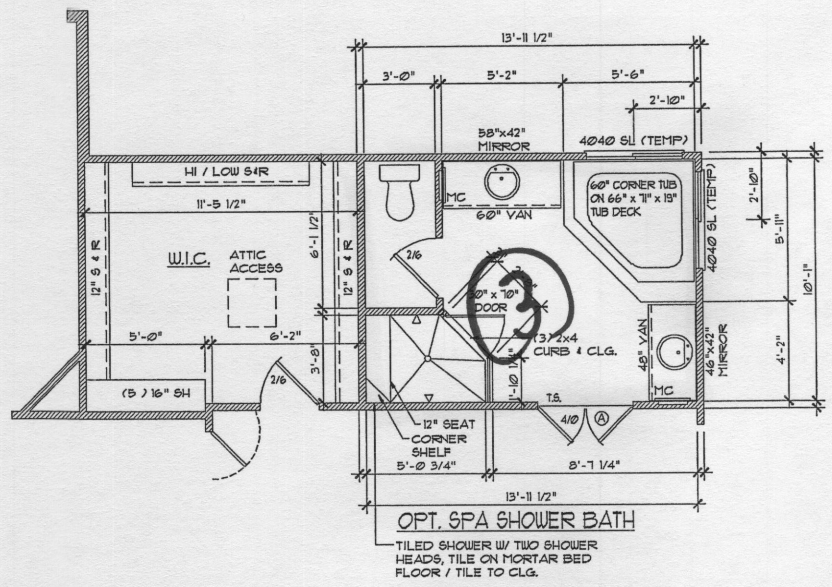
MODEL	COLORADO
SET #	

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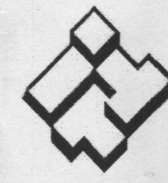
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COLORADO
 KV_003_5A2

GENERAL NOTES

1. BASE SQUARE FOOTAGE OF HOUSE: 3,562 SQ.FT.
2. NUMBER OF BEDROOMS: 4
3. EJECTOR PUMP NOT REQUIRED TO SEWER BASEMENT
4. DRIVEWAY CULVERT NOT REQUIRED PER THE APPROVED ROAD DRAWINGS, F-08-139.
5. 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.
6. PLAT REFERENCE: #21339
7. 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 12/17/05.
8. 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.
9. THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT 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.
10. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
11. TOTAL LIMIT OF DISTURBANCE: 17,188 SQ. FT. / 0.39 AC.
12. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-08-139).
13. 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.
14. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (DDC, INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
15. THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
16. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
17. 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 SEWAGE 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.
18. 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.
19. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
20. 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.
21. THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-08-139.



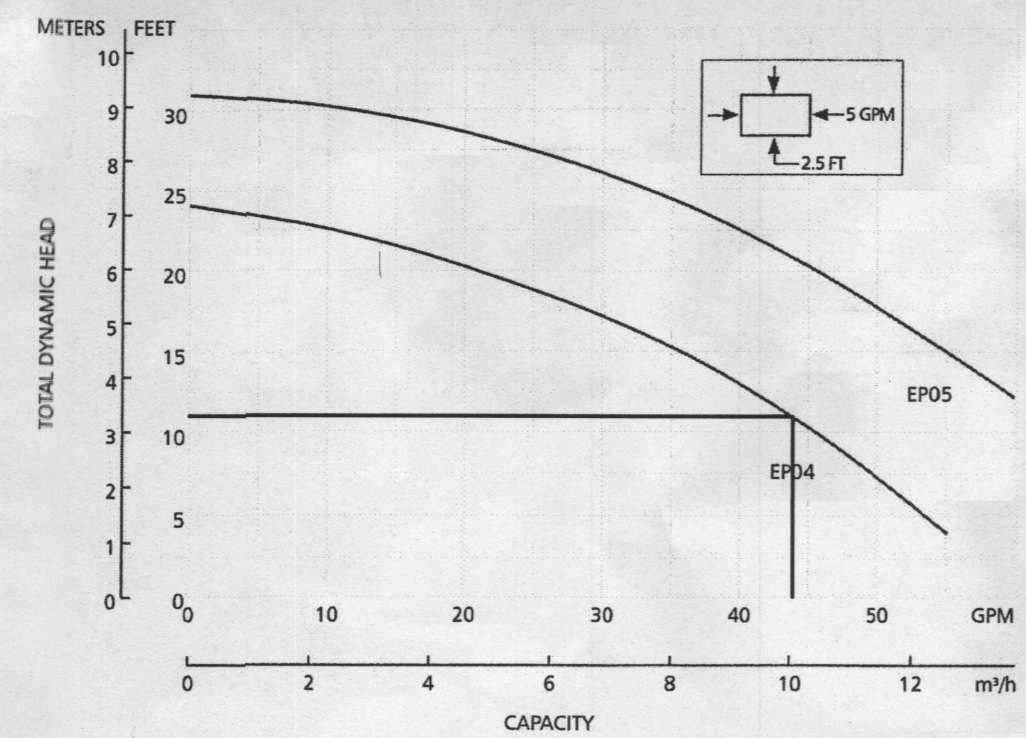
ITT

GOULDS PUMPS
Wastewater

PERFORMANCE RATINGS

Total Head (ft. of water)	Gallons Per Minute	EP04	EP05
5	53	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

STATIC HEAD	5.0' (MIN)
FRICITION HEAD	6.0'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	11.0'
GALLONS PER MINUTE	44 GPM
DOSE	101
PUMP RUN TIME	2.3 MIN



TOTAL DYNAMIC HEAD CALCULATIONS

STATIC HEAD
OFF FLOAT ELEVATION: 468.3'
HIGH POINT OF THE SYSTEM: + 473.3'
VERTICAL ELEVATION CHANGE: 5.0'

FRICITION HEAD
FITTINGS: 13.8'
LENGTH OF PVC PIPE: + 30.5'
TOTAL LENGTH: 44.3'

44.3/100 x 13.62 = 6.0 TOTAL FRICITION LOSS

TOTAL HEAD
VERTICAL ELEVATION CHANGE: 5.0'
TOTAL FRICITION LOSS: 6.0'
SYSTEM PRESSURE REQUIREMENTS: + 0.0'
TOTAL DYNAMIC HEAD: 11.0'

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

1. 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.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
3. THE BLOWER SHALL NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. 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.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

LOT 7 INITIAL SYSTEM TRENCH SPECIFICATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
TRENCH 1 (78')	478.1	470.1	467.1
TRENCH 2 (78')	472.0	469.0	466.0

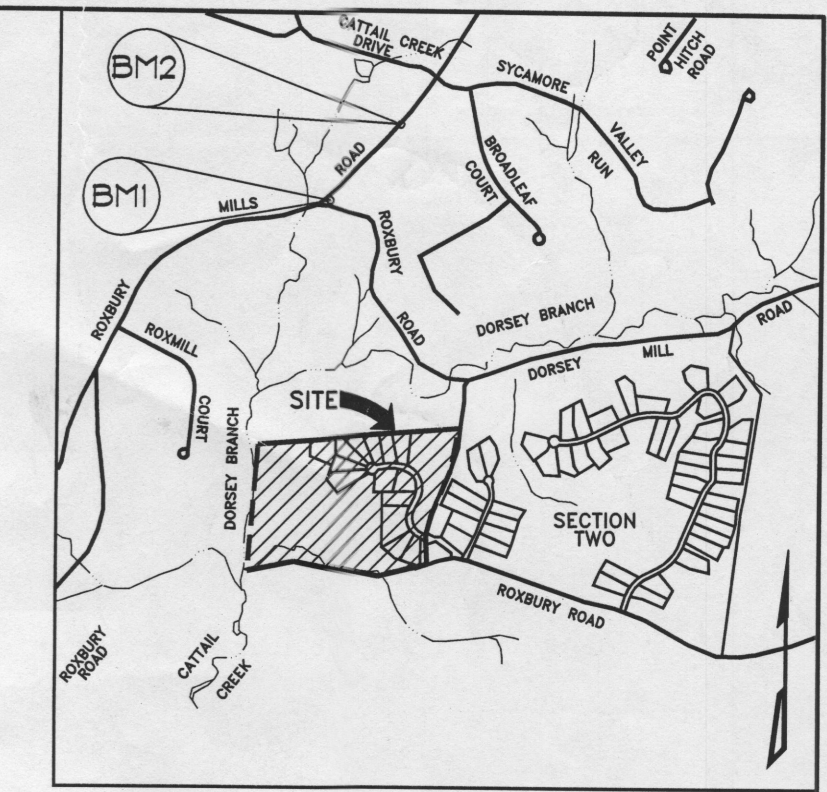


BENCHMARK

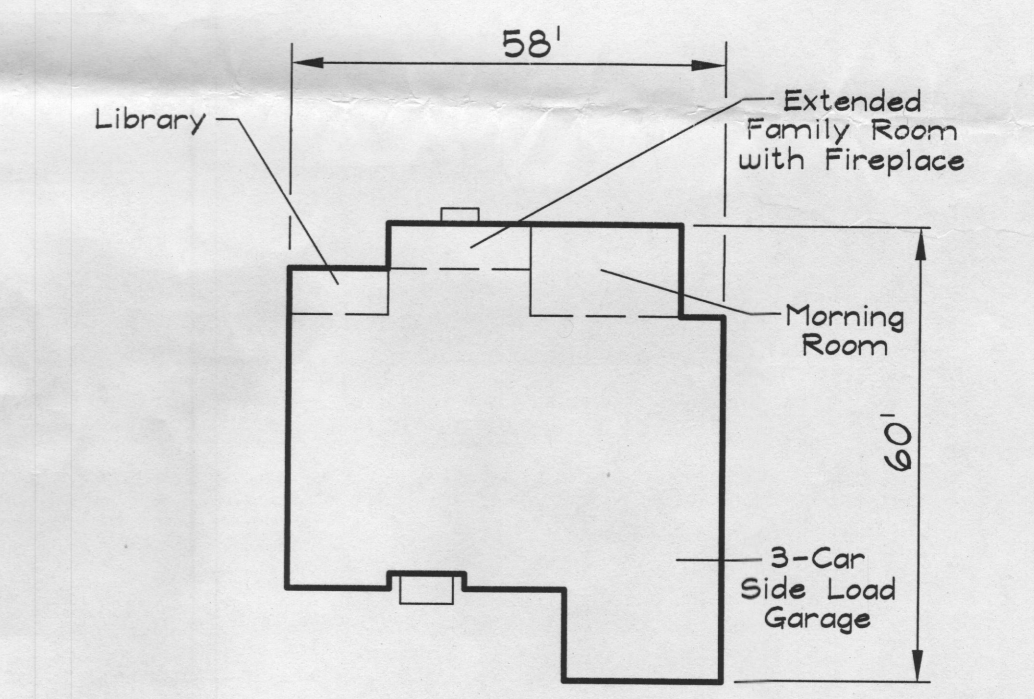
BENCHMARK #1
N. 582718.1745
E. 1500496.020
S.T.A. 21E.A
ELEV. 450.23

BENCHMARK #2
N. 583065.329
E. 1300868.477
S.T.A. 21E.2
ELEV. 475.15

ADC. MAP COORDINATES
MAP 4812 D9N
39°04'00", E 76°47'30"



VICINITY MAP
SCALE: 1"=2000'



COLORADO COLONIAL ELEVATION BRICK FRONT

DATA SOURCES:

DRAWING LEGEND

- 500 PROPOSED GRADE
- 502 PROPOSED GRADE
- EX. FAILED PERCOLATION TEST
- EX. PASSED PERCOLATION TEST
- PROPOSED LIMIT OF DISTURBANCE
- + 665.5 PROP. SPOT ELEV./FLOW ARROW
- SEPTIC RESERVE AREA
- WELL AREA

DDC Inc.
Development Design Consultants

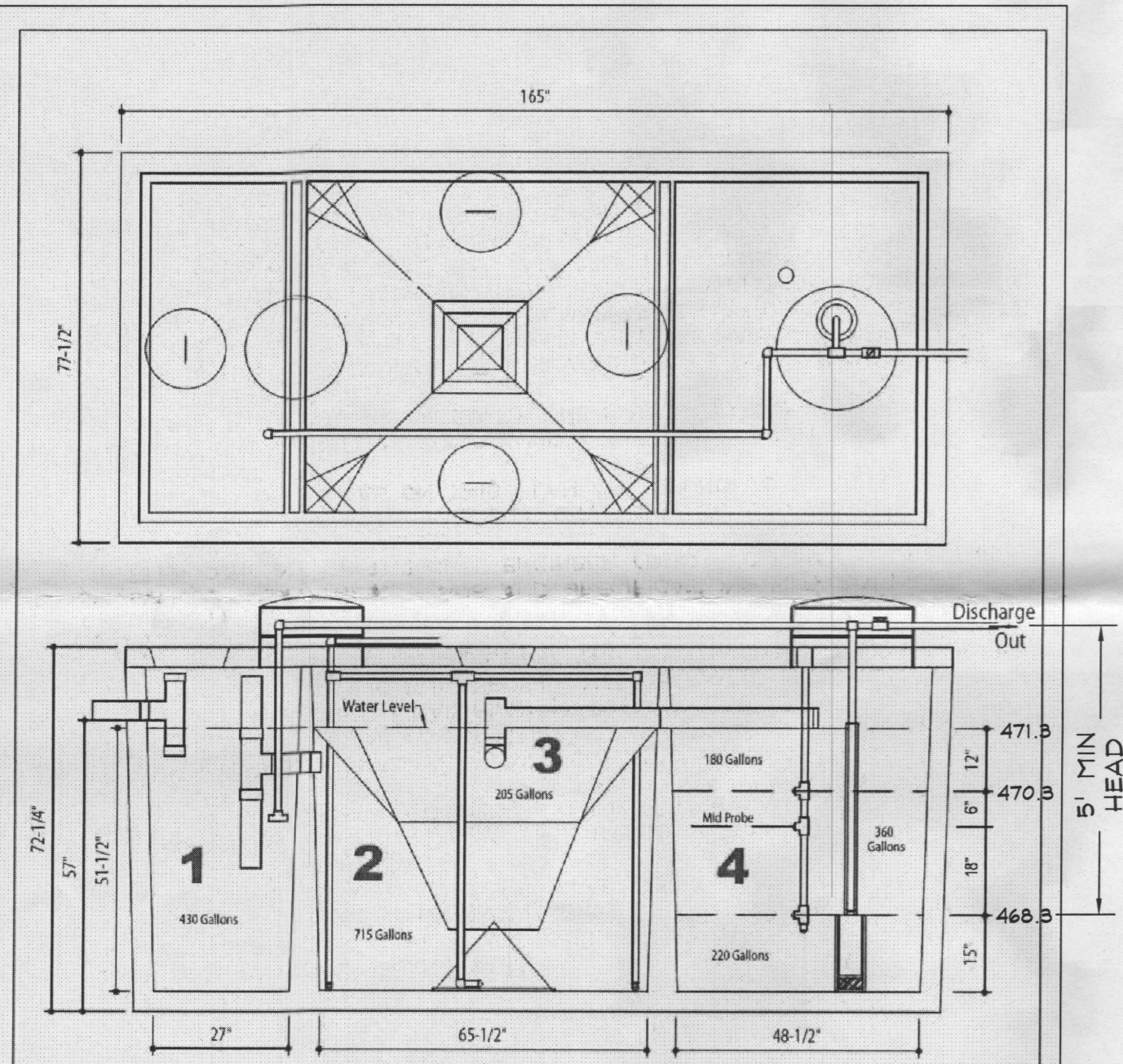
Planners
Surveyors
Engineers
Landscape Architects

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

OWNER:
K. HOVANIAN HOMES
1802 BRIGHTSEAT ROAD
LANDOVER, MD 20785
(301)683-6268

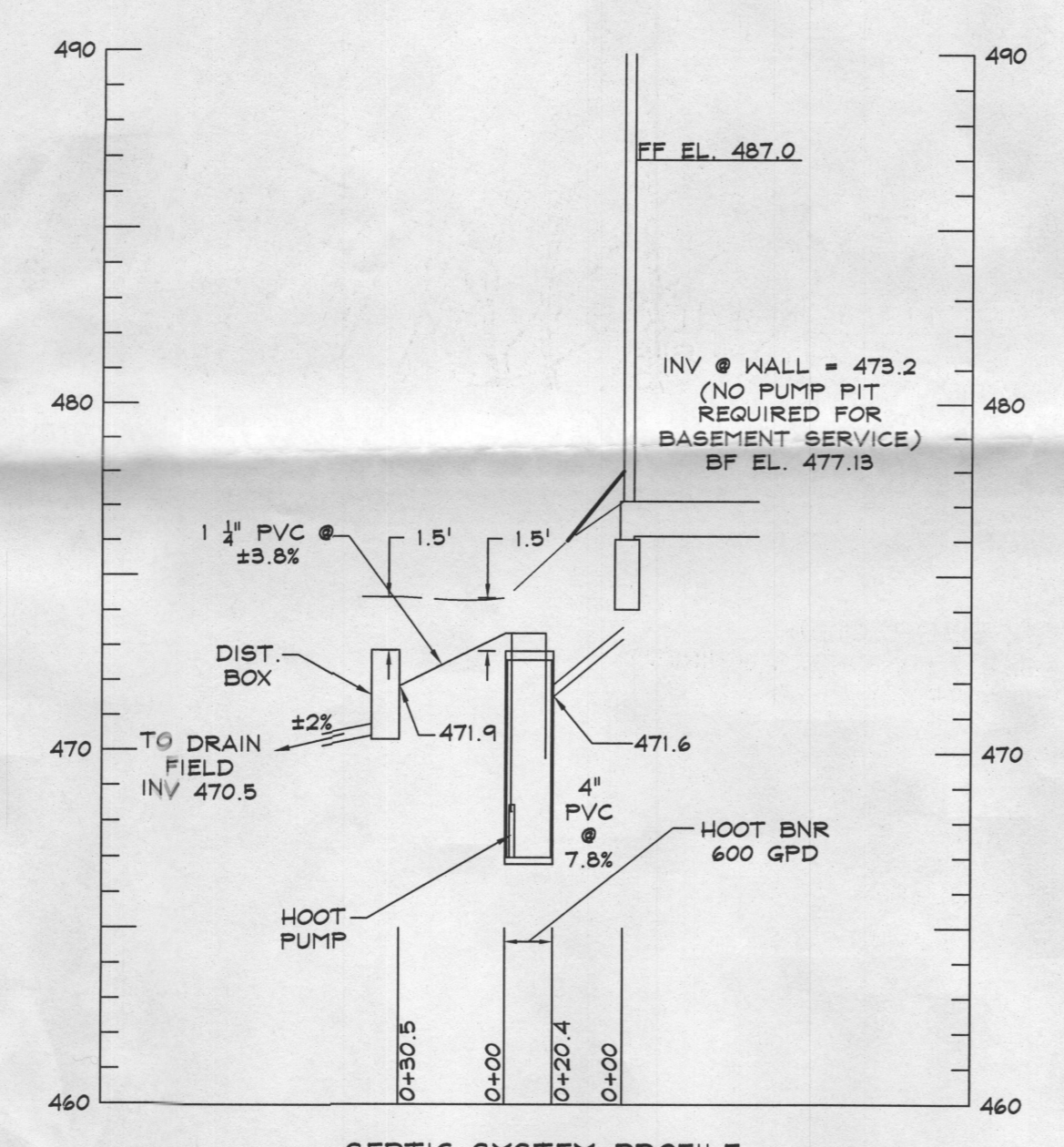
BUILDER:
K. HOVANIAN HOMES
1802 BRIGHTSEAT ROAD
LANDOVER, MD 20785
(301)683-6268

SITE ADDRESS:
LOT 7
15059 DOUBLE BRIDGES COURT
WOODBINE, MD 21197



LOT 7 PUMP ELEVATIONS

OFF	ON	ALARM
468.3	470.3	471.3



SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

1. INVERT @ FOUNDATION WALL: 473.2 (BASEMENT PUMP NOT REQUIRED)
2. 600 GPD BNR SYSTEM W/ 750 GALLON PUMP CHAMBER
EX. GRADE OVER TANK: 475.0
PROPOSED GRADE OVER TANK: 475.0
INVERT: 471.6
3. DISTRIBUTION BOX
EX. PROPOSED GRADE OVER TANK: 474.4
INVERT: 471.9
4. TRENCH DESIGN (4BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD / 0.8 GPD/BF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 24" OF GRAVEL BELOW PIPE
9" MIN SPACING BETWEEN TRENCH EDGES
750 SF / 3' WIDTH = 166.67 LF x 0.62 = 155 LF MIN. TRENCH
USE 2 - 78' LONG TRENCHES = 156 LF FOR INITIAL SYSTEM
USE 2 - 78' LONG TRENCHES = 156 LF FOR FIRST REPLACEMENT SYSTEM

DESIGN DATA & GENERAL NOTES

1. Concrete strength Fc=4000 p.s.i. @ 28 days. Density = 150 pcf.
2. Cement - Portland Type III per ASTM C 150-92.
3. Admixtures & plasticizers per ASTM C 309-66 & C 494-92.
4. Reinforcing per ASTM A185. Min. 1-1/2" cover.

Mayer Brothers, Inc.
6264 Race Road
Bridges, Maryland 21075
Tel: 410.796.1434
Fax: 410.796.1138
www.mayerbrothers.com

600 GPD BNR SYSTEM
H-600 ABNR
with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1 No Scale March 19, 2009

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

06/23/14
DATE

PAUL G. CAVANAUGH, P.E.

SITE PLAN FOR BAT INSTALLATION

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
CO. FILE #	F-08-139	DES. BY:	JHK	
TAX ACC. #:	1404375173	DRN. BY:	JHK	
TAX MAP:	21	CHK. BY:	BKC/PGC	
BLOCK / GRD:	21	DATE:	06/23/14	
PARCEL #:	24	DDC JOB#:	13085.1	
ZONE / USE:	RC-DEO	SHEET NUMBER:		
DWG. SCALE:	1"=30'			1 of 1

GENERAL NOTES

- BASE SQUARE FOOTAGE OF HOUSE: 3,562 SQ. FT.
- NUMBER OF BEDROOMS: 4
- EJECTOR PUMP NOT REQUIRED TO SEWER BASEMENT
- DRIVEWAY CULVERT 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.
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- THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT 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: 17,188 SQ. FT. / 0.39 AC.
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-08-139).
- ANY DAMAGE TO PUBLIC "RIGHT-OF-WAY" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
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SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

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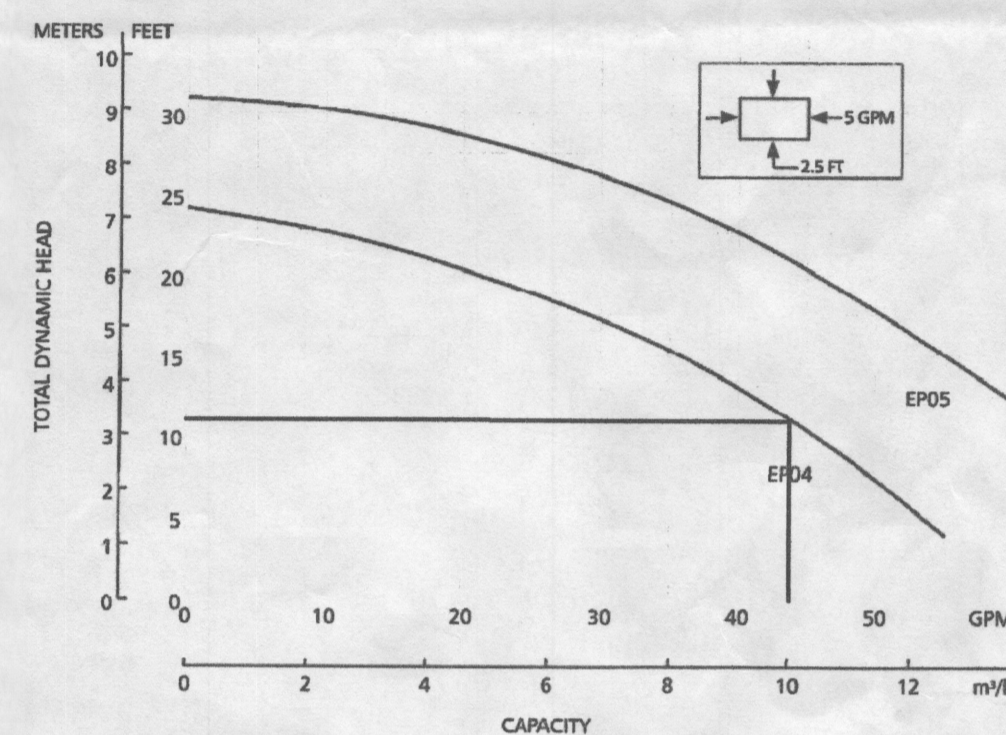
ITT

GOULDS PUMPS
Wastewater

PERFORMANCE RATINGS

Total Head (ft. of water)	Gallons Per Minute	EP04	EP05
5	53	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

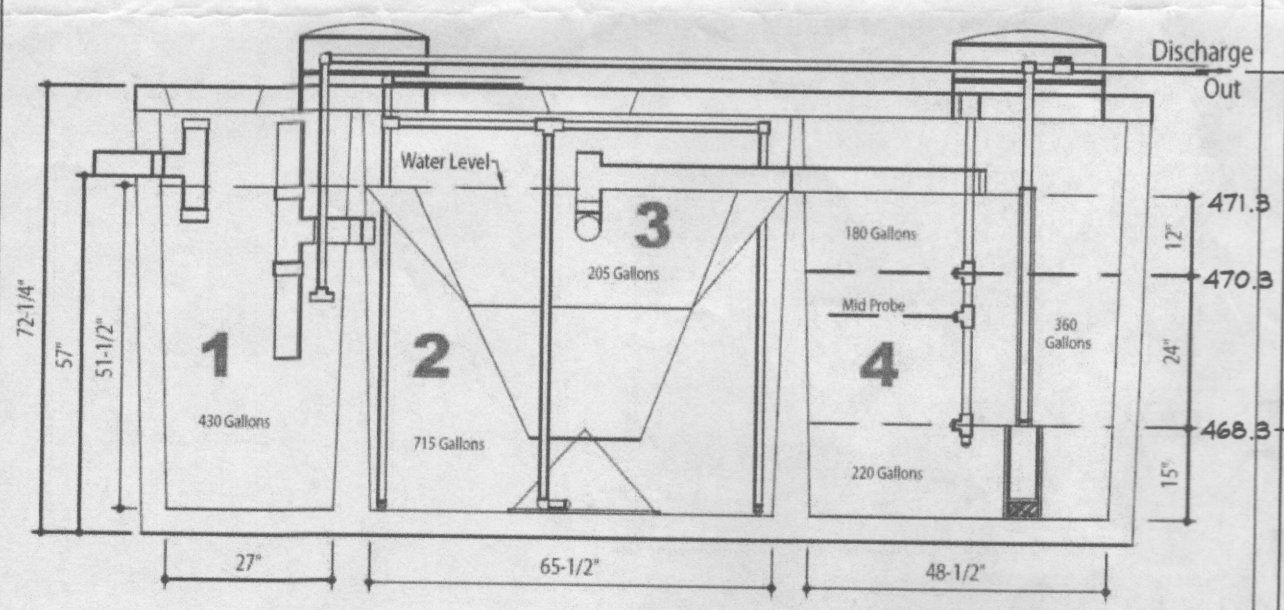
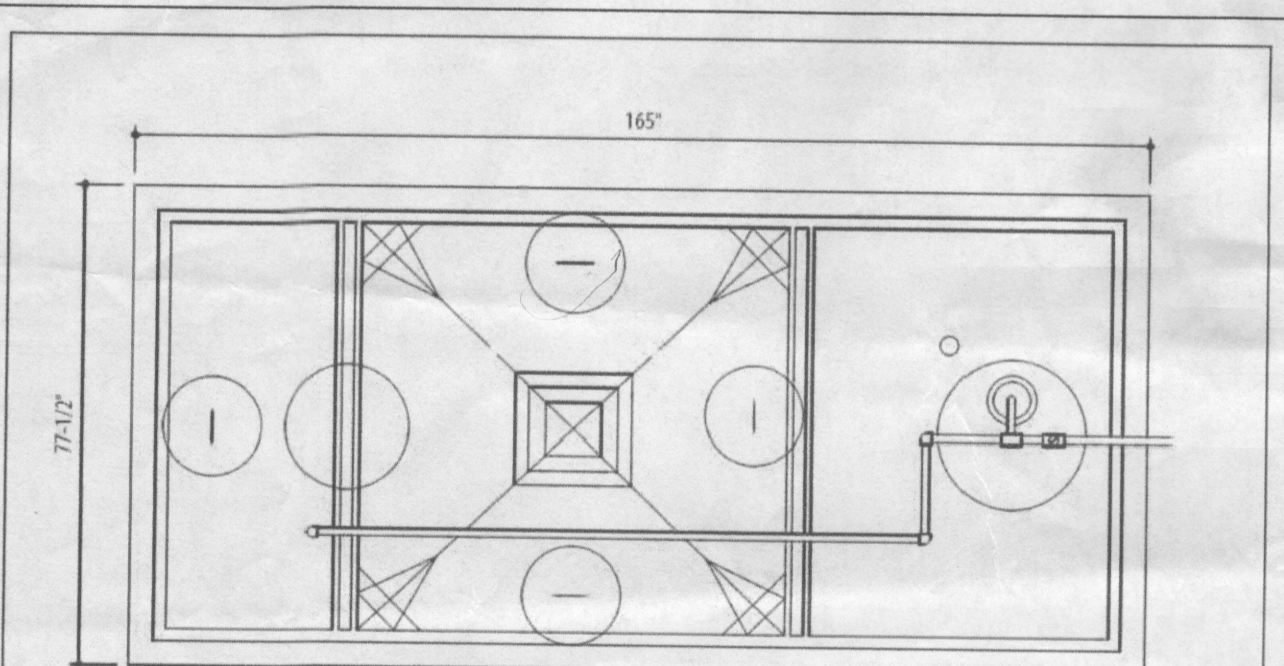
STATIC HEAD	5.0' (MIN)
FRICTION HEAD	6.0'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	11.0'
GALLONS PER MINUTE	44 GPM



3

LOT 7 INITIAL SYSTEM TRENCH SPECIFICATIONS

TRENCH	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
TRENCH 1 (78')	473.1	470.1	467.1
TRENCH 2 (78')	472.0	469.0	466.0

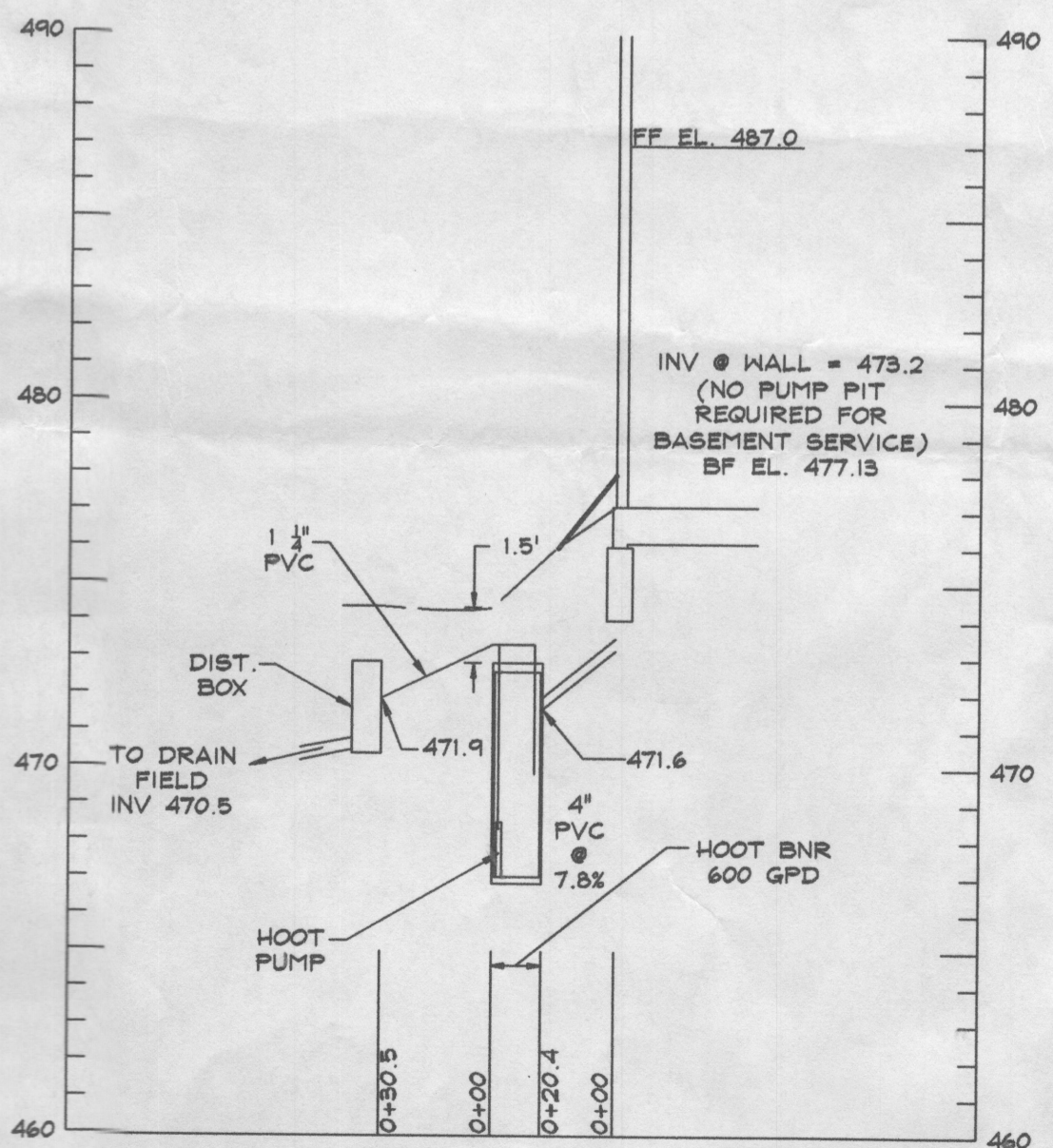


LOT 7 PUMP ELEVATIONS

OFF	ON	ALARM
468.3	470.3	471.3

Mayer Brothers, Inc.
6348 River Road
Elkridge, Maryland 21075
Tel: 410.766.1434
Fax: 410.766.1438
www.mayerbrothers.com

600 GPD BNR SYSTEM
H-600 ABNR
with 750 GALLON PUMP CHAMBER
Dwg. No. Hoot Form #1 No Scale March 19, 2009



SEPTIC SYSTEM PROFILE

LOT 7
SCALE: HORIZ. 1"=30'
VERT. 1"=5'

- SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):**
- INVERT @ FOUNDATION WALL: 473.2 (BASEMENT PUMP NOT REQUIRED)
600 GPD BNR SYSTEM W/ 750 GALLON PUMP CHAMBER
EX. GRADE OVER TANK: 475.0
PROPOSED GRADE OVER TANK: 475.0
INVERT: 471.6
 - DISTRIBUTION BOX
EX. PROPOSED GRADE OVER TANK: 474.4
INVERT: 471.9
 - TRENCH DESIGN (4BDRM x 150 GPD/BDRM = 600 GPD)
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 24" OF GRAVEL BELOW PIPE
9" MIN SPACING BETWEEN TRENCH EDGES
750 SF / 3' WIDTH = 166.67 LF x 0.62 = 104 LF MIN. TRENCH
USE 2 - 78' LONG TRENCHES = 156 LF FOR INITIAL SYSTEM
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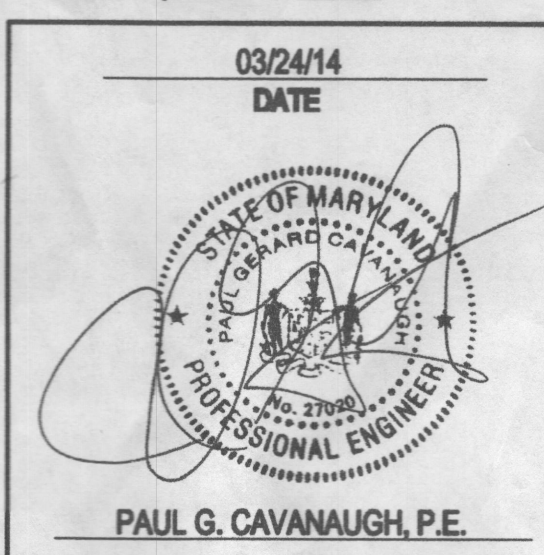
*BAT Plan ok
DB
4-2-14*



DRAWING LEGEND

- 500 PROPOSED GRADE
- 502 EX. FAILED PERCOLATION TEST
- EX. PASSED PERCOLATION TEST
- PROPOSED LIMIT OF DISTURBANCE
- + 665.5 PROP. SPOT ELEV./FLOW ARROW
- SEPTIC RESERVE AREA
- WELL AREA

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. 22020, Expiration Date: 01/28/16



03/24/14
DATE

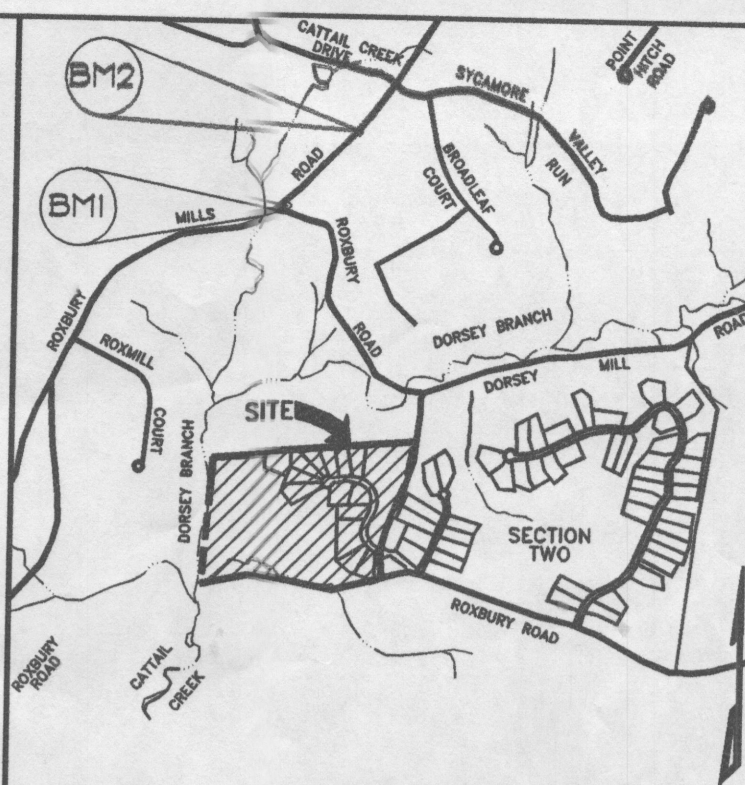
PAUL G. CAVANAUGH, P.E.

BENCHMARK

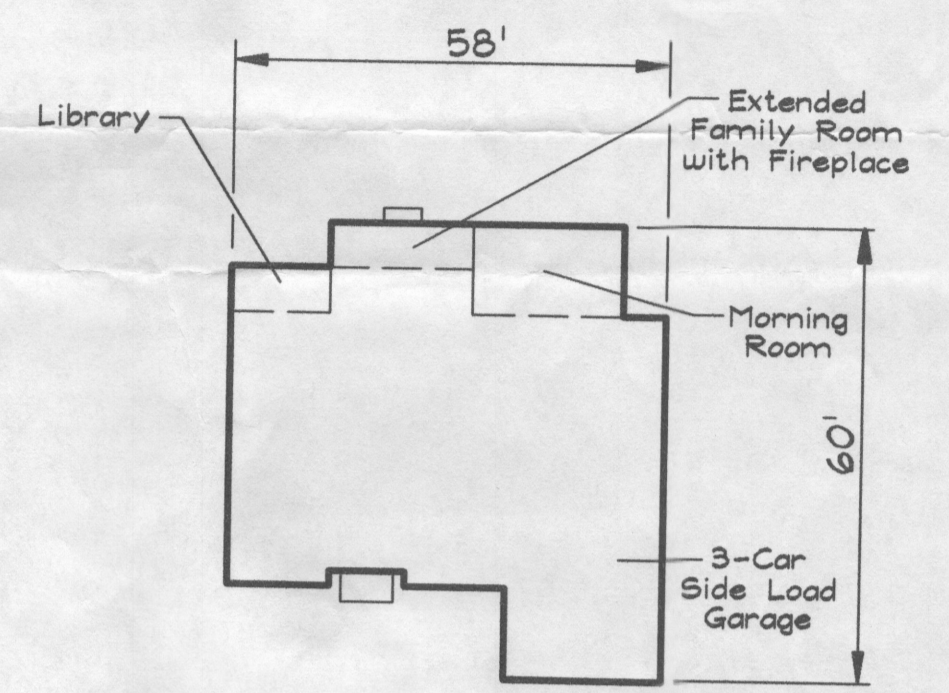
BENCHMARK #1
N. 582715.1745
E. 1300496.020
S.T.A. 21E4
ELEV. 450.23

BENCHMARK #2
N. 553065.329
E. 1500845.477
S.T.A. 21E2
ELEV. 475.95

ADC MAP COORDINATES
MAP 4812 D1N
84°01'00", E 76°47'30"



VICINITY MAP
SCALE: 1"=2000'



COLORADO COLONIAL ELEVATION BRICK FRONT

DATA SOURCES:

DDC inc.
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
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OWNER:
K. HOWMAN HOMES
1802 BRIGHTBEAT ROAD
LANDOVER, MD 20785
(301)958-6205

BUILDER:
K. HOWMAN HOMES
1802 BRIGHTBEAT ROAD
LANDOVER, MD 20785
(301)958-6205

SITE ADDRESS:
LOT 7
15059 DOUBLE BRIDGES COURT
WOODBINE, MD 21797

MERIWETHER FARM LOT 7
SITE PLAN FOR BAT INSTALLATION

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
CO. FILE #	F-08-139	DES. BY:	JHK	
TAX ACC. #	1404375173	DRN. BY:	JHK	
TAX MAP:	21	CHK. BY:	BKC/PGC	
BLOCK / GRID:	21	DATE:	03/24/14	
PARCEL #:	24	DDC JOB#:	13085.1	
ZONE / USE:	RC-DEO	SHEET NUMBER:		
DWG. SCALE:	1"=30'		1 of 1	