



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: 10/6/14

Permit No.: B14003663

Health

Building Address: 15229 Sweetbay St.
 City: WOODBINE State: MD Zip Code: 21797
 Suite/Apt. # _____ SDP/WP/BA #: F-07-38
 Census Tract: _____ Subdivision: BELLE HAVEN
 Section: _____ Area: _____ Lot: 41
 Tax Map: _____ Parcel: _____ Grid: _____
 Zoning: _____ Map Coordinates: _____ Lot Size: _____

Existing Use: vacant lot
 Proposed Use: new S. F. D.
 Estimated Construction Cost: \$ 280,000 (Elev. A)
 Description of Work: COLORADO W/ MORN RM, 6 FT. FAM. AND LIBRARY EXT 2 STORY, FULL BSMT, 14R
 Occupant or Tenant: 3 1/2 BATHRMS, 2 FP AND GARAGE
 Was tenant space previously occupied? Yes No
 Contact Name: FIN BSMT + STA BAROOM
 Address: IN BSMT per Health Dept.
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height: _____	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories: _____	Depth	Width
Gross area, sq. ft./floor: _____	1 st floor: _____	_____
Area of construction (sq. ft.): _____	2 nd floor: _____	_____
Use group: _____	Basement:	_____
Construction type:	<input checked="" type="checkbox"/> Finished Basement	
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space	
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Wood Frame	No. of Bedrooms: _____	
<input type="checkbox"/> State Certified Modular	Multi-family Dwelling	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	No. of efficiency units: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No. of 1 BR units: _____	
Roadside Tree Project Permit # _____	No. of 2 BR units: _____	
	No. of 3 BR units: _____	
	Other Structure: _____	
	Dimensions: _____	
	Footings: _____	
	Roof: _____	
	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Property Owner's Name: BELLE HAVEN BAKER LLC
 Address: 10751 Falls Rd. Ste. 405
 City: LUTHERVILLE State: MD Zip Code: 21093
 Phone: _____ Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: Vicky Meyer
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: 410-296-6900 Fax: _____
 Email: MDBLDGPERRITS@COMCAST.NET

Contractor Company: K. HOVNANI TAN HOMES
 Contact Person: Chester Willett
 Address: 1802 Brightseat Rd.
 City: Landover State: MD Zip Code: 20785
 License No.: 3149
 Phone: 301-772-8900 Fax: _____
 Email: CWillett@KHOV.COM

Engineer/Architect Company: D. D. C.
 Responsible Design Prof.: Brian Collins
 Address: 192 E. Main St.
 City: Westminster State: MD Zip Code: 21157
 Phone: 410-386-0560 Fax: _____
 Email: _____

Utilities	
<u>Water Supply</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<u>Sewage Disposal</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>Heating System</u>	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
<u>Sprinkler System:</u>	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: <u>613000401</u>	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: V. Meyer
 Email Address: MDBLDGPERRITS@COMCAST.NET
 AGENT
 Title/Company: _____

Print Name: Vicky Meyer
 Date: 10/6/2014
 RECEIVED
 OCT 06 2014
 LICENSES & PERMITS DIVISION
 Uk # 49715

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>12-10-14</u>	<u>Dana Bayard</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION

Front: _____
 Rear: _____
 Side: _____
 Side St.: _____
 All minimum setbacks met? Yes No
 Is Entrance Permit Required? Yes No
 Historic District? Yes No
 Lot Coverage for New Town Zone: _____
 SDP/Red-line approval date: _____

Filing Fee	\$ <u>100</u>
Permit Fee	\$ _____
Tech Fee	\$ _____
Excise Tax	\$ _____
PSFS	\$ _____
Guaranty Fund	\$ <u>50.00</u>
Add'l per Fee	\$ _____
Total Fees	\$ _____
Sub-Total Paid	\$ _____
Balance Due	\$ _____
Check #	<u>00099715</u>

Bernard, Dana

From: Bernard, Dana
Sent: Monday, December 01, 2014 11:41 AM
To: 'Willett, Chester'
Subject: RE: Bellehaven lot 41

Mr. Willett,

Building permit B14003663 cannot be approved at this time because you still have 5 bedrooms. Even though your basement is not finished you will still have the ability to create five bedrooms because the full bathroom is attached to the den/bedroom. The den/bedroom can be transformed into a bedroom with drywall. Please make adjustments and resubmit. If you would like to have the permit approved as is. We must submit a revised building plan to the department of planning and zoning and to the Howard County health department stating the septic system is designed for a 4 bedroom house and if the homeowner decides to upgrade the unfinished den/bedroom in the basement the septic system must be upgraded. If you have any questions don't hesitate to give me a call.

Thanks
Dana

From: Willett, Chester [mailto:cwillett@khov.com]
Sent: Tuesday, November 25, 2014 12:49 PM
To: Bernard, Dana
Subject: Bellehaven lot 41

Happy almost Thanksgiving !!!

Ms. Dana , have you had a chance to review the building permit package for B14003663 / 15229 Sweetbay Street ? It's our inly sold lot which has not yet been approved for issuance.... TXS !!!!

Chester / KH☺V



10/31/14

HOWARD COUNTY
PERMITS DEPARTMENT
% MS. SHARI LOGAN



1802 Brightseat Road
Landover, MD 20785

Chester Willett
Permits Manager
K. Hovnanian Homes of Maryland, LLC

Direct: 301.683.6268
Fax: 301.683.6371
Cell: 240.375.4515
cwillett@khov.com
khov.com

RE: Belle Haven Estates
lot 41 B14003663
5229 ~~1827~~ SWEETBAY STREET
WOODBINE MD. 21797

Dear Ms. Logan,

K. Hovnanian Homes wishes to amend the pending Building Permit Application so that it will comply with Health Department Review requirements.

- (1) Clarify the finished basement... only the "REC ROOM" is finished and no other areas are finished under this permit application. Thus the basement is partially finished.

- (2) Amend the number of bedrooms from 5 to 4. As the finished rec room is not considered a bedroom there are only 4 total.

There are ^{no} changes to the structural plans. A revised site plan is attached, changing General Note # 2 to reflect 4 bedrooms.

C: DANA BEJWAARD
HOWARD COUNTY HEALTH DEPARTMENT

K. Hovnanian Homes, 1802 Brightseat Road, Landover, MD 20785
khov.com

Sincerely,

Chester Willett

SCALE:
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 1/4" = 1'-0" @ 24 x 36

NOTES:
 * W/ OPT. 3RD FLOOR WINDOWS
 REMAIN AT 7'-0" 3/8" HEAD
 HEIGHT W/ WINDOW SIZES AS
 SHOWN.
 * SEE ELEVATIONS FOR FOYER
 WINDOW HEAD HEIGHT.

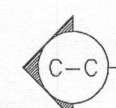
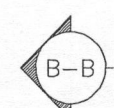
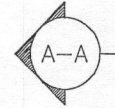
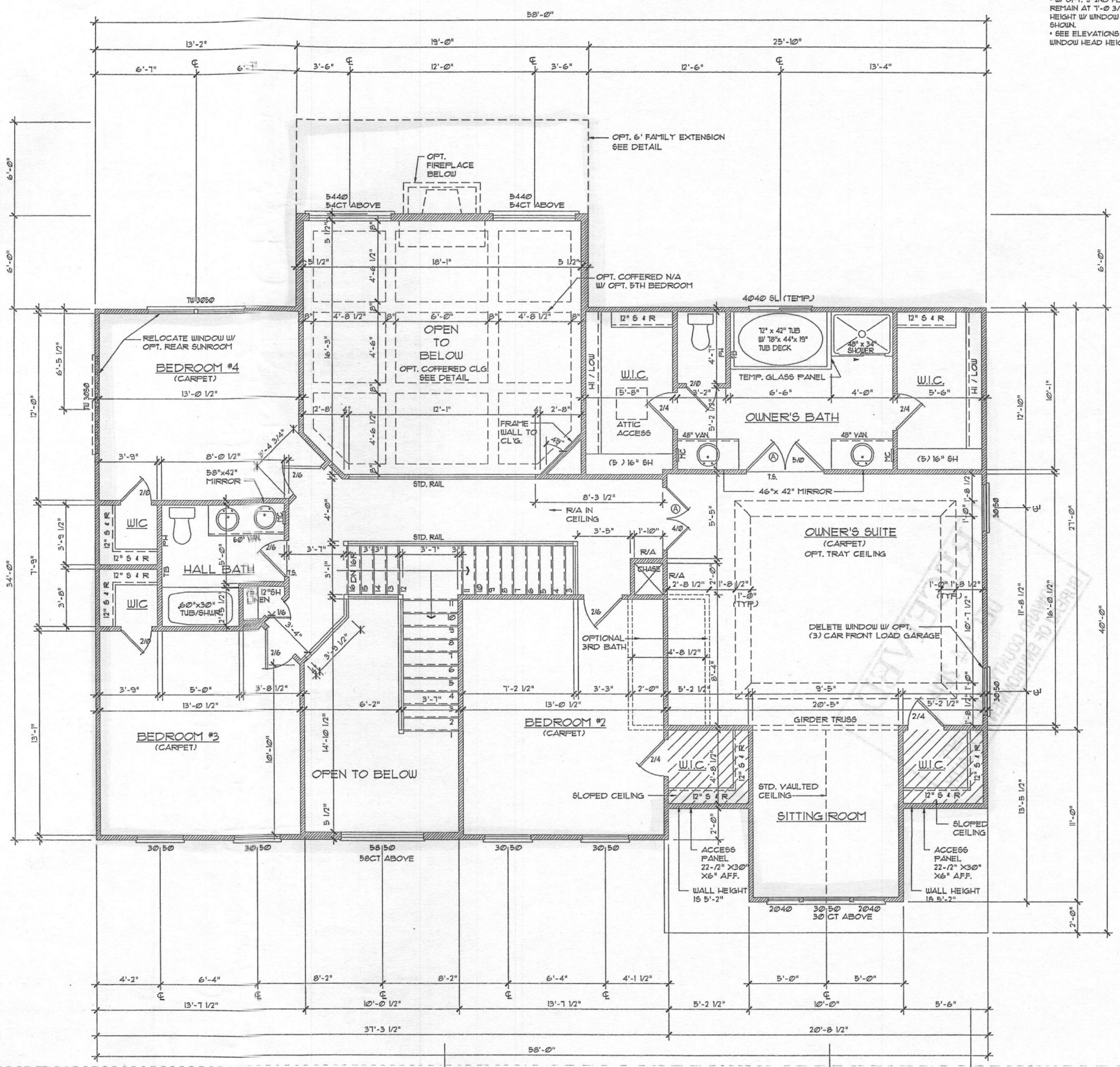
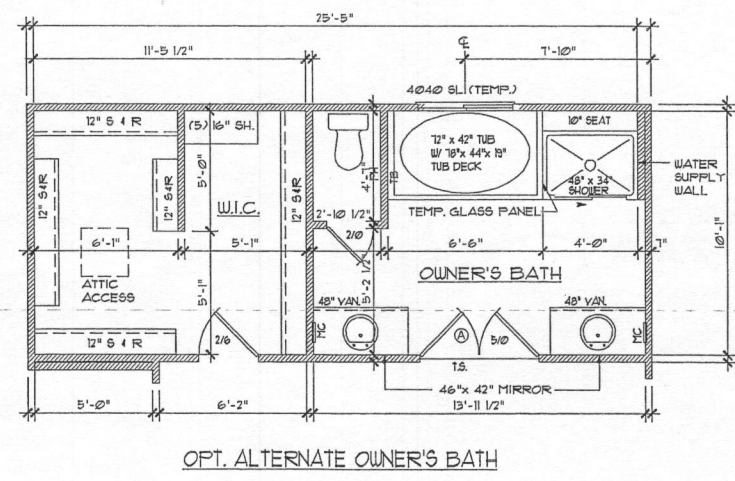
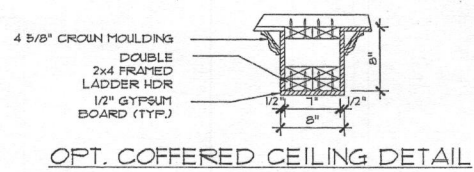
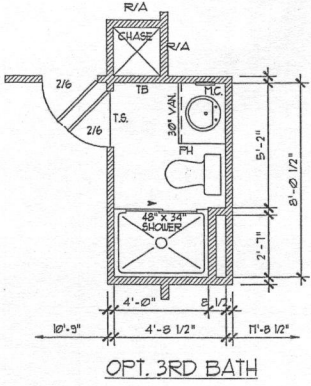
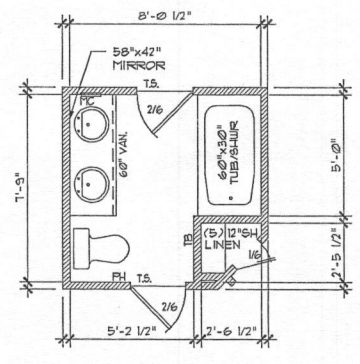
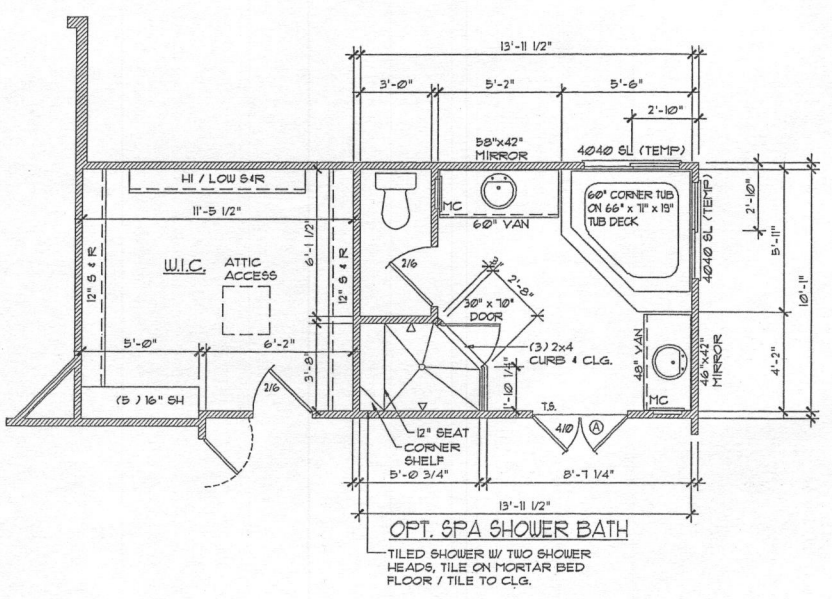
SHEET NUMBER	5A
SCALE	
DRAWN BY	ACT
DATE	02-01-12

REVISION	DATE	REVISION	REMARKS

REVISION	DATE	REVISION	REMARKS

MODEL	COLORADO
SET #	

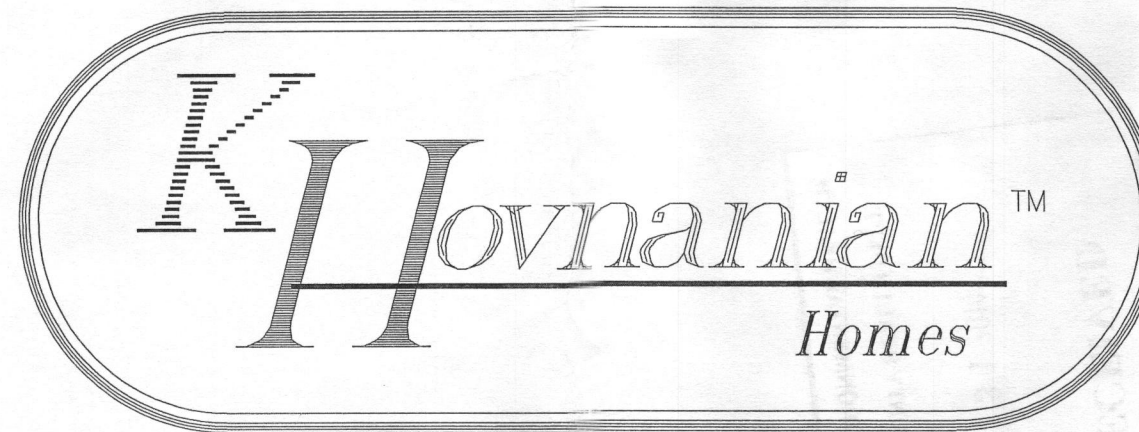
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COLORADO
 KV_003_5A

SQUARE FOOTAGE CHART	
NAME	AREA
FIRST FLOOR PLAN (TRADITIONAL ELEV.)	1748
SECOND FLOOR PLAN (TRADITIONAL ELEV.)	1708
BASE SQUARE FOOTAGE	3456
COLONIAL ELEVATION	+ 109
COUNTRY ELEVATION	+ 109
GEORGIAN ELEVATION	+ 131
VICTORIAN ELEVATION	+ 162
ELEVATION A	+ 215
ELEVATION B	+ 215
OPT. LIVING RM. / DINING RM BAY WINDOW	+ 16
OPT. SIDE LIBRARY BAY WINDOW	+ 18
ALT. OWNERS SUITE W/ 3-CAR SIDE LOAD GARAGE	+ 5
BEDROOM 5 OVER STD FAMILY ROOM	+ 287
BEDROOM 5 OVER EXT. FAMILY ROOM	+ 395
OPT. SIDE CONSERVATORY	+ 252
OPT. FIRST FLOOR SUITE W/ BATH	+ 331
OPT. FIRST FLOOR SUITE 2 W/ BATH	+ 378
OPT. ALT. FIRST FLOOR SUITE W/ BATH	+ 471
OPT. 6' LIBRARY EXT.	+ 79
OPT. 6' FAMILY ROOM EXT.	+ 120
OPT. 12' MORNING ROOM / DES. KIT. / GRAND MR.	+ 244
OPT. REAR SUNROOM	+ 161
OPT. COMBO 12' MORNING ROOM & 6' F.R. EXT.	(361)
OPT. COMBO 12' MORNING ROOM & 6' F.R. & 6' LIB. EXT.	(440)
OPT. COMBO 12' MORNING ROOM & 6' F.R. & SUNROOM	(519)
OPT. FINISHED BASEMENT (TOTAL BASE HOUSE)	1318
OPT. REC. ROOM	662
OPT. DEN	308
OPT. BATH	49
OPT. EXERCISE ROOM	221
OPT. FINISHED STORAGE CLOSET	79
EXT. REC. RM. W/ 6' LIBRARY EXT.	+ 79
EXT. REC. RM. OPT. 6' FAMILY ROOM EXT.	+ 106
EXT. REC W/ OPT. REAR SUNROOM	+ 153
EXT. REC W/ OPT. 12' MORNING ROOM ONLY	(+ 7)
EXT. DEN W/ OPT. 12' MORNING ROOM	+ 226
EXT. DEN W/ COMBO OPT. 12' MR & 6' FAMILY RM. EXT.	(+ 13)
EXT. REC W/ COMBO OPT. 12' M.R. & 6' F.R. & SUNROOM	(- 5)
EXT. EXERCISE RM. W/ COLONIAL ELEVATION	+ 25
EXT. STORAGE CLOSET W/GEORGIAN ELEVATION	+ 15
EXT. EXERCISE RM. W/ VICTORIAN ELEVATION	+ 25
EXT. EXERCISE RM. W/ ELEVATION A & B	+ 25
EXT. STORAGE CLOSET W/ ELEVATION A & B	+ 7

SQUARE FOOTAGE CHART (CONT'D)	
NAME	AREA
GARAGE 2-CAR	464
GARAGE 2-CAR (W/ ELEVS A & B)	+ 42
GARAGE 3-CAR SIDE LOAD	+ 168
GARAGE 3RD CAR FRONT LOAD	+ 227
UNFINISHED BASEMENT (BASE HOUSE)	1748
UNFIN. BSMT. W/ COLONIAL ELEVATION	+ 55
UNFIN. BSMT. W/ COUNTRY ELEVATION	+ 55
UNFIN. BSMT. W/ GEORGIAN ELEVATION	+ 22
UNFIN. BSMT. W/ ELEVATION	+ 0
UNFIN. BSMT. W/ 6' LIBRARY EXT.	+ 79
UNFIN. BSMT. W/ OPT. 6' FAMILY ROOM EXT.	+ 114
UNFIN. BSMT. W/ OPT. 12' MORNING ROOM	+ 244
UNFIN. BSMT. W/ OPT. REAR SUNROOM	+ 161
UNFIN. BSMT. W/ COMBO OPT. 12' M.R. & 6' FAMILY RM. EXT.	(- 3)
UNFIN. BSMT. W/ COMBO OPT. 12' M.R. & 6' F.R. & SUNROOM	(- 6)
UNFIN. BSMT. W/OPT. SIDE CONSERVATORY	+ 252
UNFIN. BSMT. W/OPT. FIRST FLOOR SUITE W/ BATH	+ 331
UNFIN. BSMT. W/OPT. FIRST FLOOR SUITE 2 W/ BATH	+ 378
UNFIN. BSMT. W/ OPT. ALT. FIRST FLOOR SUITE W/ BATH	+ 471



MID-ATLANTIC AREA

COLORADO

REVISION DATE: 08-11-2014

1CO

2012 INTERNATIONAL RESIDENTIAL CODE

Bellevue ESTIMU
107 (4)
B14003663

ACI

2012 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:

GROUND SNOW LOAD	WIND SPEED (mph)		SEISMIC DESIGN CATAGORY	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	Termite					
90			A & B								

KV_003_3258_COLORADO

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SCALE:
 1/8" = 1'-0" @ 11 x 17
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NOTES:
 • W/O 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
5A

SCALE

DRAWN BY
ACI

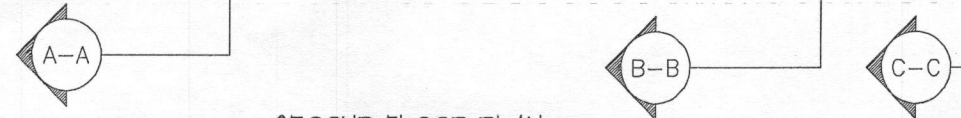
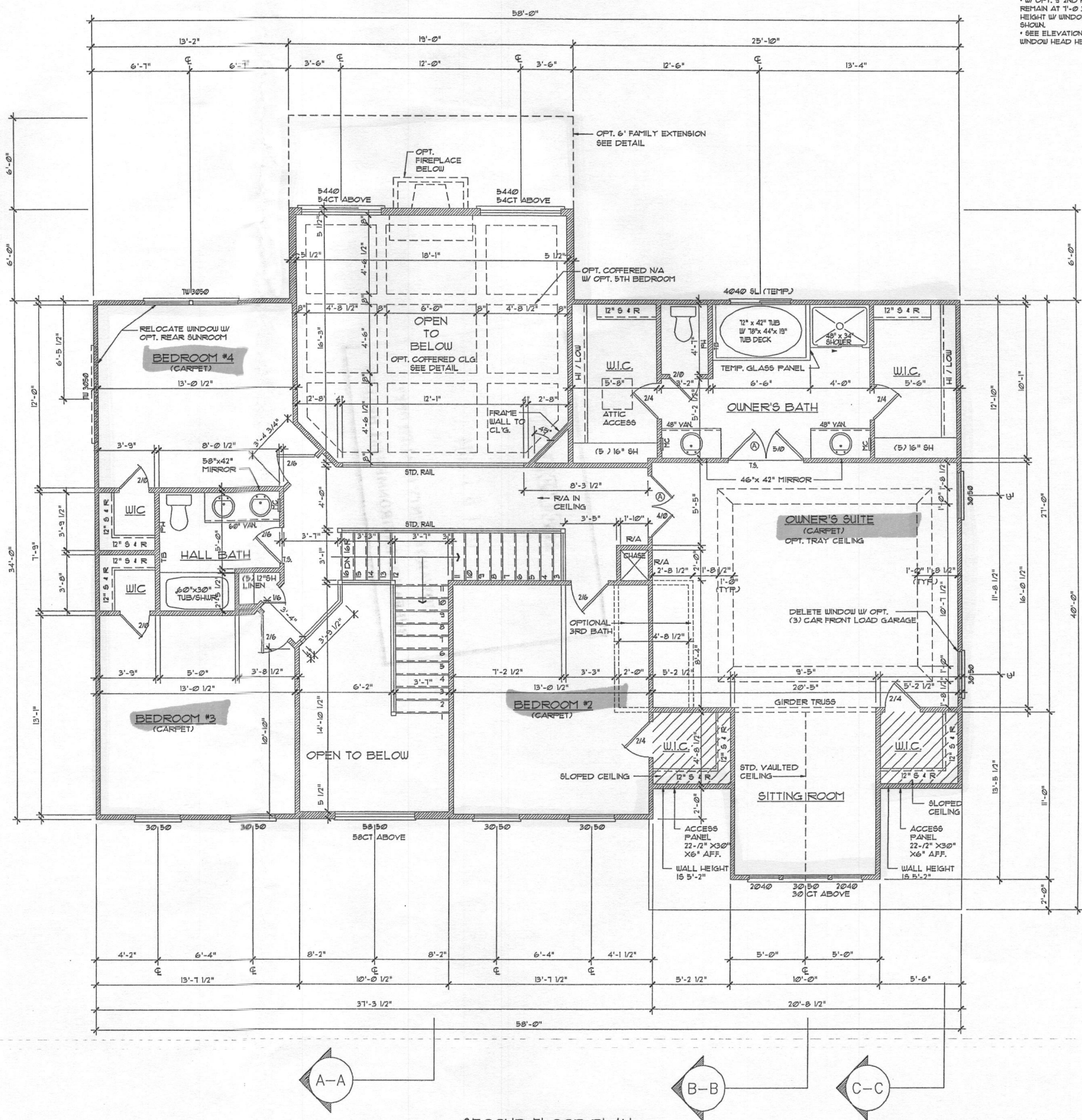
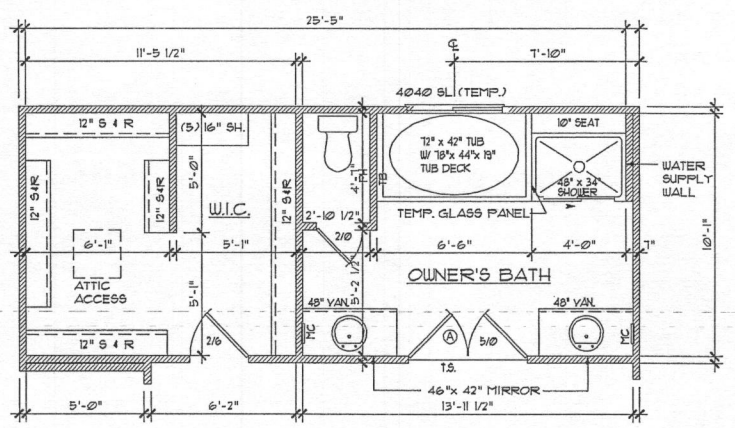
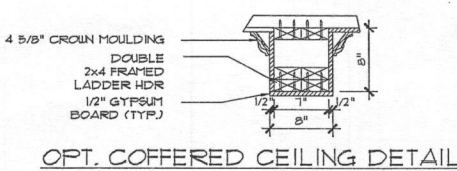
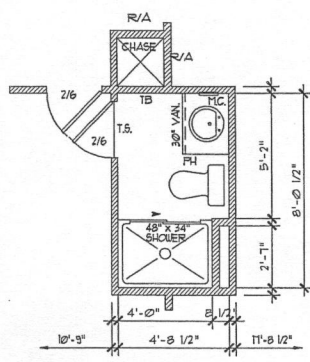
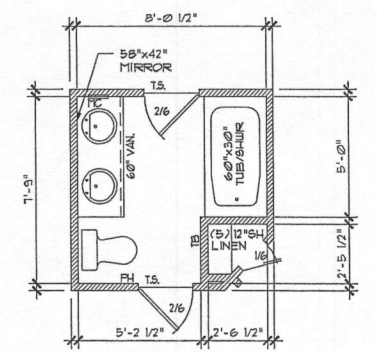
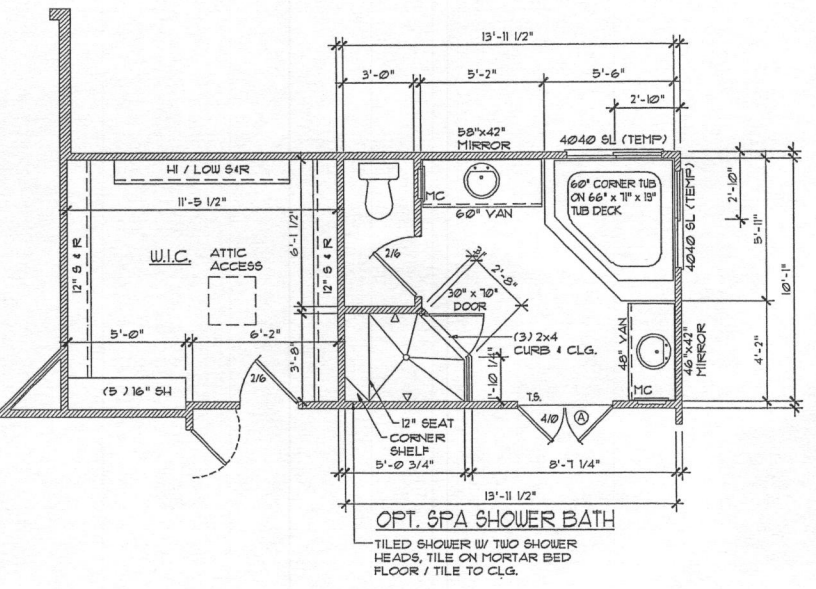
DATE
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REVISION	DATE	REV.#	REMARKS

REVISION	DATE	REV.#	REMARKS

MODEL
COLORADO
SET #

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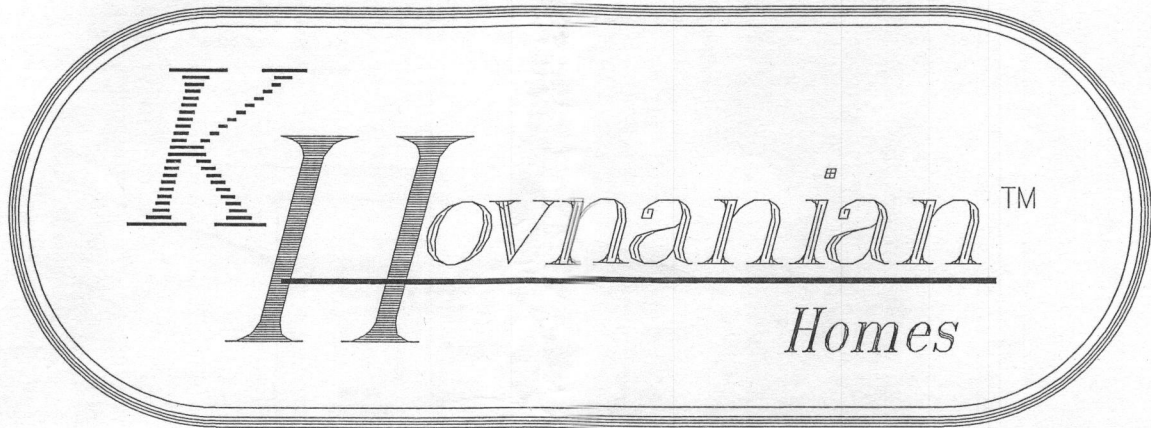


COLORADO
KV_003_5A

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Health Department



MID-ATLANTIC AREA

COLORADO

REVISION DATE: 08-11-2014

100

2012 INTERNATIONAL RESIDENTIAL CODE

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

2012 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:											
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UNFIN. BSMT. W/ OPT. ALT. FIRST FLOOR SUITE W/ BATH	+ 471

NOTE ADDED 12/2: AT ANY TIME IN THE FUTURE THAT A BUILDING PERMIT IS SUBMITTED TO FINISH THE AREA CURRENTLY IDENTIFIED AS OPTIONAL DEN, THE SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE OPTIONAL DEN CREATES A FIFTH BEDROOM PER HOWARD COUNTY CODE 3-801(B)

Bellemead ESTIM
107 (4)
B14003663

REVISED
Date: 12/2/14
Comments: B14003663
PER HEALTH
KV_003_3258_COLORADO

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**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 12/2/14

To: DANA BERNARD / Health Department
(Person's Name and Division)

From: CHESTER WILLET / KHAMMANIAN HOME (240) 375-4515
(Your Name, Company Name and Telephone Number)

Subject: Project name Belle Haven lot #1
Project site address 15229 SWEDEBY STREET
Permit # B14003663 ✓ SDP # N/A
Other information pertinent to this project _____

- ✓ Please check the attachments below that you are submitting with this transmittal:
- Letter of response to address plan review comment letter
 - Revised plans and/or revised details: When submitting for a complete re-review, **duplicate sets shall be submitted.**
 - Letter Summarizing Changes
 - Energy conservation calculations
 - ✓ Copies of Health Dept. Request (be specific).
 Health Department Request DPZ/ DED Request Applicant's Request
 - Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
 - Other _____

PLOT PLAN + PLANS W/HEALTH NOTE ADDED

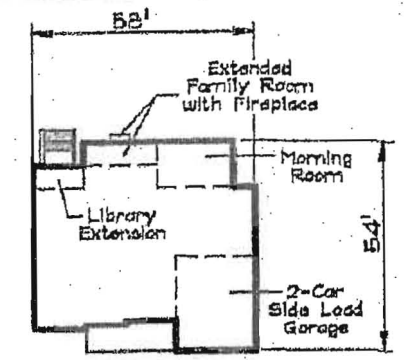
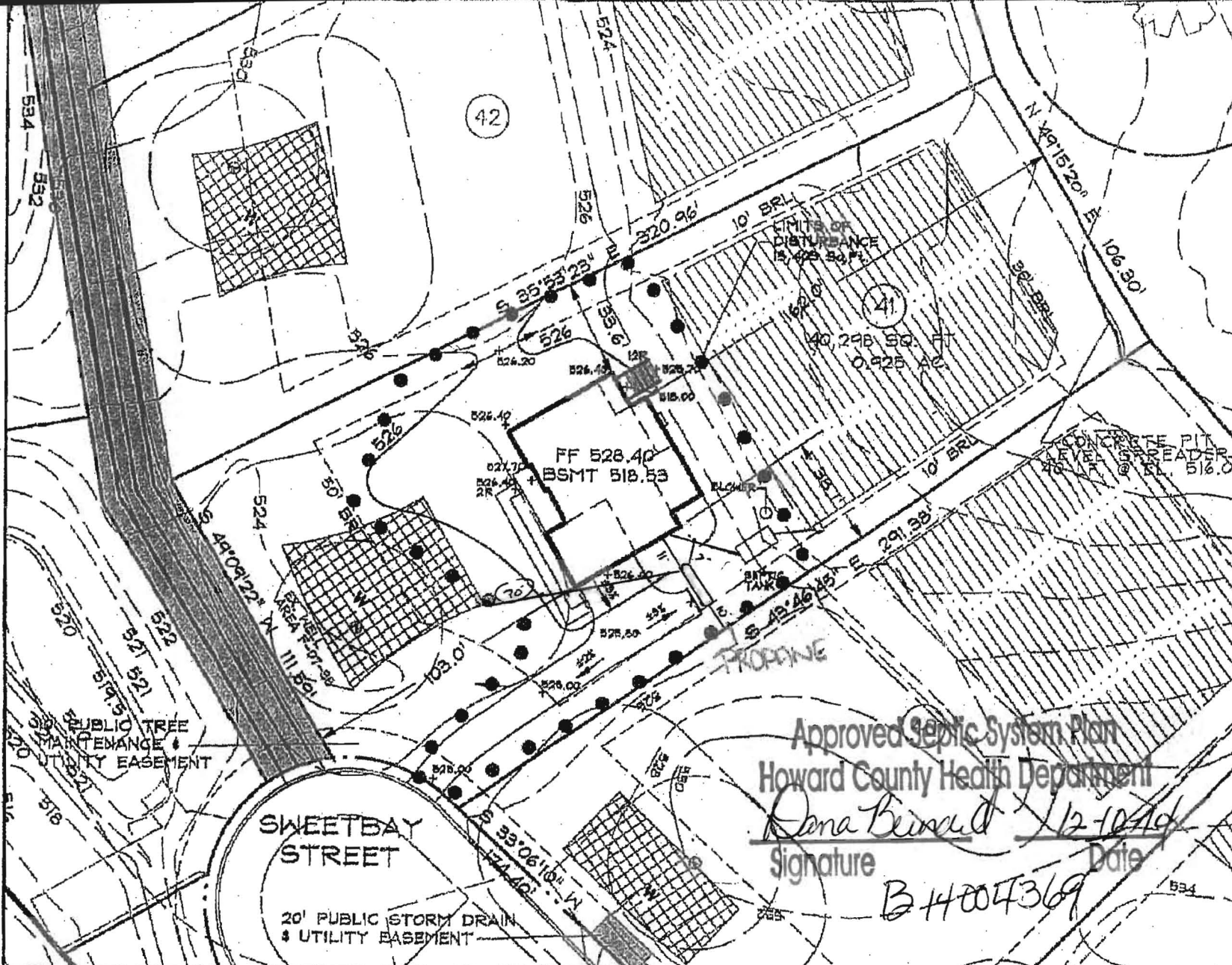
Contact Person Information: (Required)

CHESTER WILLET Telephone No: 240-375-4515
Please Print Name E-Mail Address: CWILLET@KHOW.COM

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by AKH

PER HEALTH



COLORADO
ELEVATION 'A'
BRICK/STONE FRONT

GENERAL NOTES

1. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-0649) HAS BEEN LOCATED BY DDC, PROFESSIONAL LAND SURVEYOR, AND IS ACCURATELY SHOWN.
2. BASE SQUARE FOOTAGE OF HOUSE: 3,562 sq.ft.
NUMBER OF BEDROOMS: 4
3. INFORMATION SHOWN ON THIS PLAN BASED ON PLANS PREPARED BY DMW DATED 6/25/07, EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS DATED 7/9/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012
4. A DRIVEWAY CULVERT IS NOT REQUIRED PER THE APPROVED ROAD DRAWINGS F-07-98.
5. EJECTOR PUMP REQUIRED TO SEWER BASEMENT.

Approved Septic System Plan
Howard County Health Department
Dana Bivona 12-10-14
Signature Date

BH004369

BELLE HAVEN ESTATES
3rd ELECTION DISTRICT HOWARD COUNTY, MD
TAX MAP 14, PARCEL 66

LOT 41
15229 SWEETBAY STREET
WOODBINE, MD 21797
PLOT PLAN
KHOV ELEVATION

OWNER/BUILDER: K.HOVNANIAN HOMES
1802 Brightseat Road
Landover, Maryland 20785
(301)663-6268



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

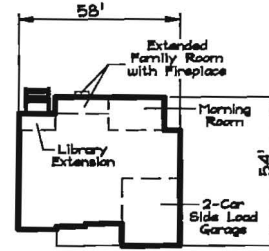
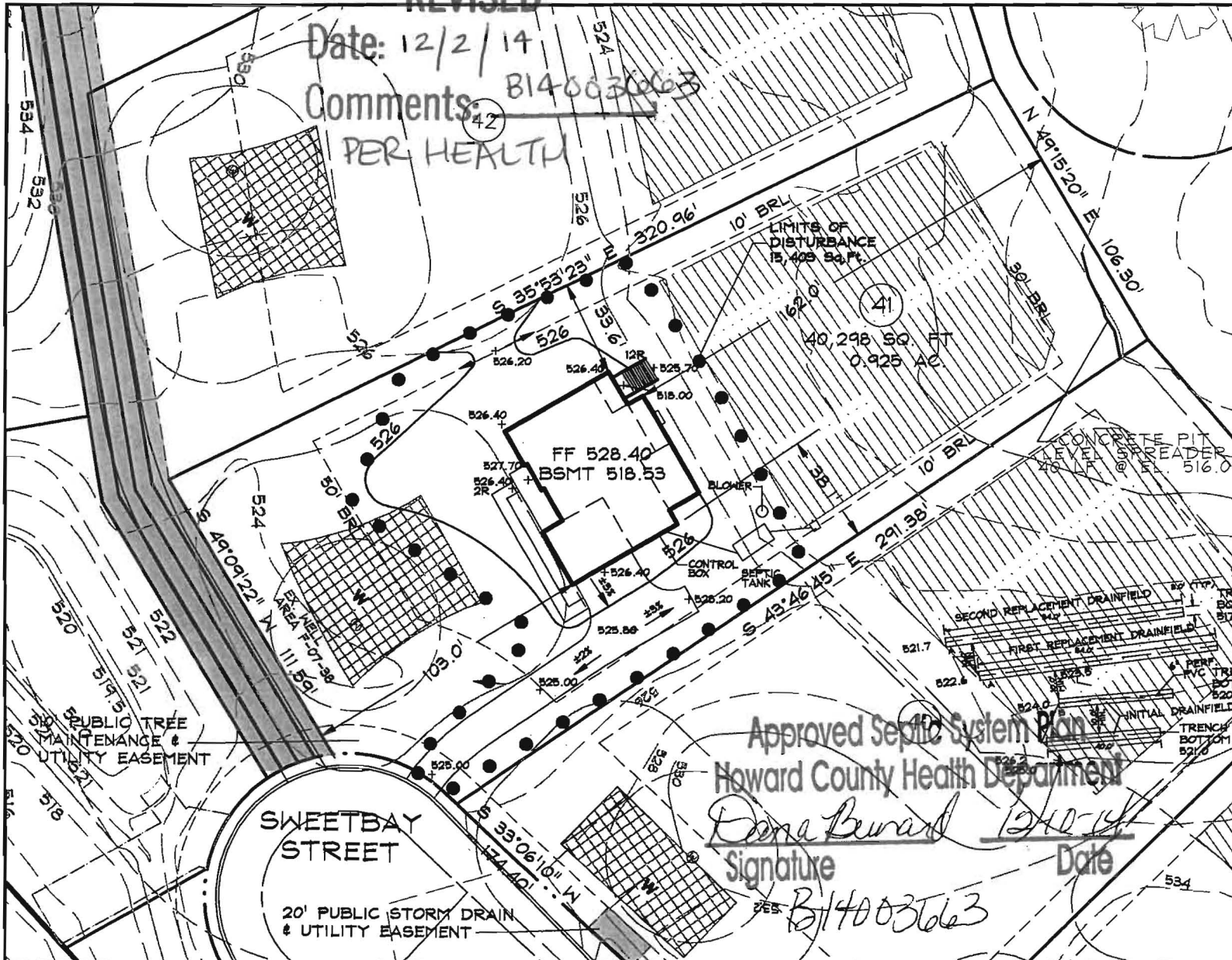
DDC JOB#:	06116.5
DATE:	10/28/14
SCALE:	1" = 50'
DES. BY:	BKC
DRN. BY:	BKC
CHK. BY:	BKC

REVISED

Date: 12/2/14

Comments: B14003663

PER HEALTH



COLORADO ELEVATION 'A' BRICK/STONE FRONT

GENERAL NOTES

1. THE EXISTING WELL SHOWN ON THIS PLAN (HO-95-0649) HAS BEEN LOCATED BY DDC, PROFESSIONAL LAND SURVEYOR, AND IS ACCURATELY SHOWN.
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4. A DRIVEWAY CULVERT IS NOT REQUIRED PER THE APPROVED ROAD DRAWINGS F-07-38.
5. EJECTOR PUMP REQUIRED TO SEWER BASEMENT.
6. 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).



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

Approved Septic System Plan
Howard County Health Department

Dana Beard
Signature Date

B14003663

DDC JOB#: 06116.5

DATE: 12/02/14

SCALE: 1" = 50'

DES. BY: BKC

DRN. BY: BKC

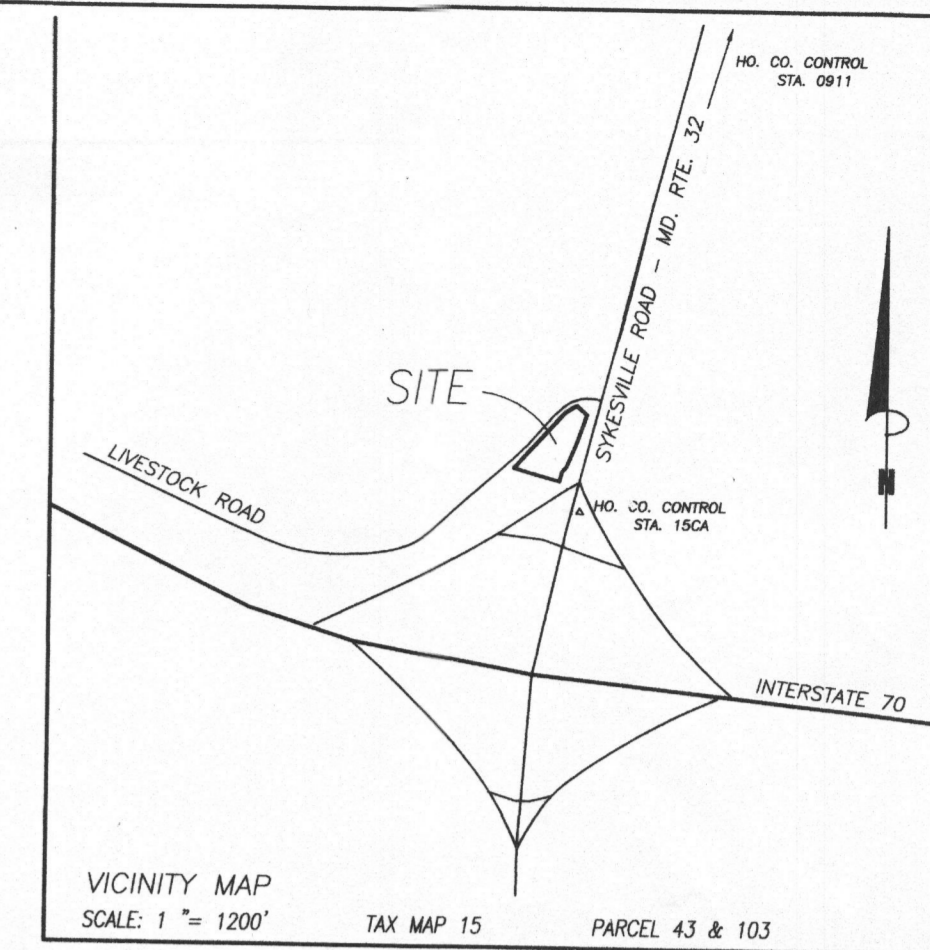
CHK. BY: BKC

BELLE HAVEN ESTATES
3rd ELECTION DISTRICT HOWARD COUNTY, MD
TAX MAP 14, PARCEL 66

LOT 41
15229 SWEETBAY STREET
WOODBINE, MD 21797
PLOT PLAN
KHOV ELEVATION

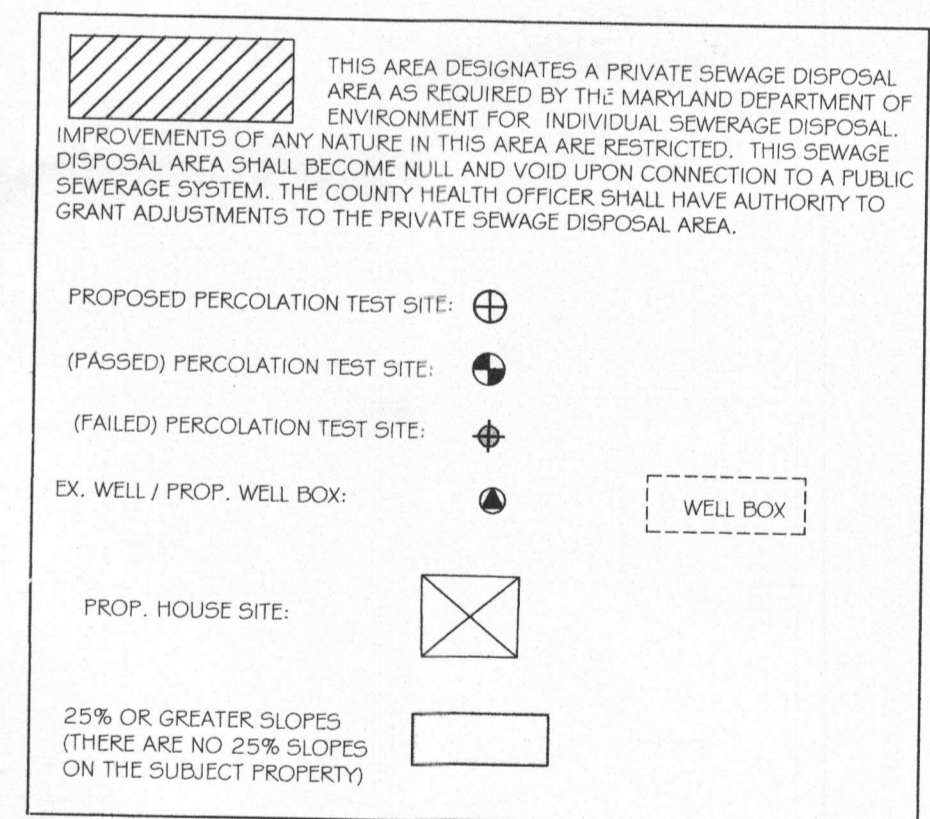
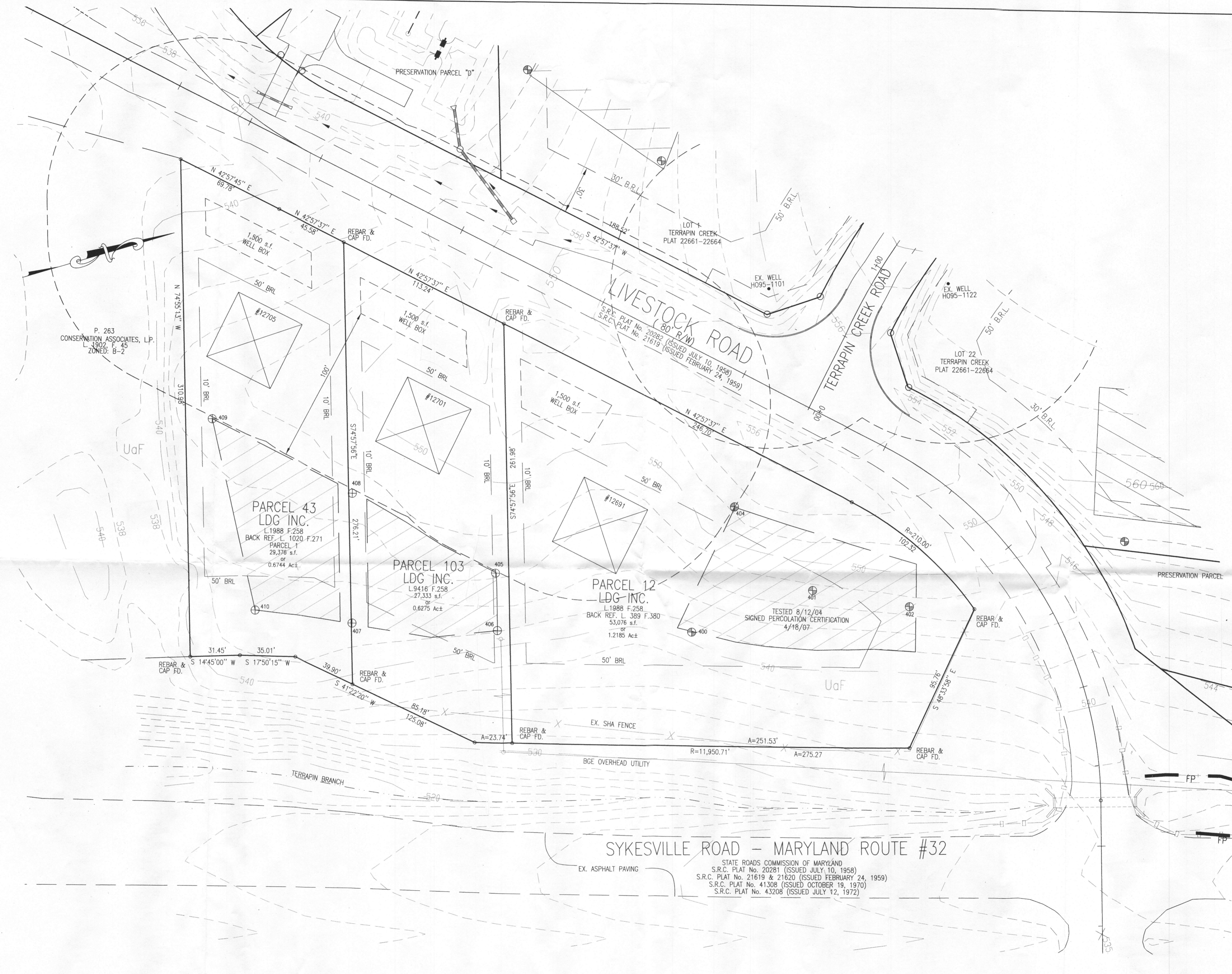
OWNER/BUILDER: K.HOVNANIAN HOMES
1802 Brightseat Road
Landover, Maryland 20785
(301)683-6268

B14003663



VICINITY MAP
SCALE: 1" = 1200'
TAX MAP 15
PARCEL 43 & 103

- GENERAL NOTES:
- OWNER: LDG, INC.
DEED REFERENCE: LIBER 1986 AT FOLIO 258
DATE: DECEMBER 31, 1990
GRANTOR: GEORGIA AVENUE PROPERTIES
DEED REFERENCE: LIBER 2416 AT FOLIO 258
DATE: AUGUST 11, 2005
GRANTOR: RONALD H. & BONNIE L. MICHAEL
 - TAX MAP: 15 GRID: 07 PARCELS: 12, 43 & 103
 - NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 3 MILES ±
 - THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 240044 0007B.
 - TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVDOD83.
 - THE BASIS OF BEARINGS FOR THIS PLAN IS THE MARYLAND COORDINATE SYSTEM (NAD83) PER HOWARD COUNTY SURVEY CONTROL STATIONS SHOWN BELOW. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
DPT 1 N 402629 2972 E 132621 4543
DPT 2 N 598062 6225 E 132513 7532
 - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
 - THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
 - SOIL TYPE, LOCATIONS, HIGHWAY (UHP) HOWARD COUNTY SOILS MAP GRID NOS.
 - ZONING DISTRICT: RC-DEO
 - ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORDED PLAT.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - ANY CHANGES TO A PRIVATE SEPTIC AREA WILL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.



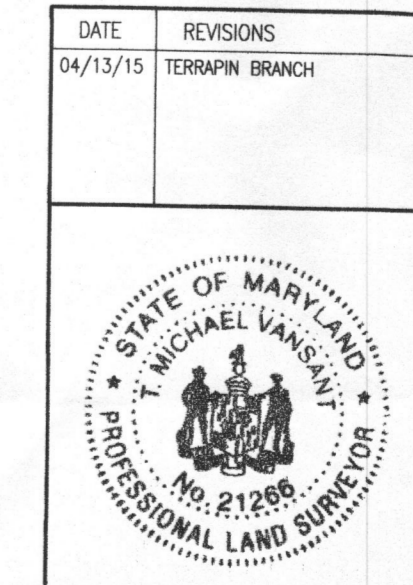
SYKESVILLE ROAD - MARYLAND ROUTE #32

STATE ROADS COMMISSION OF MARYLAND
S.R.C. PLAT No. 20281 (ISSUED JULY 10, 1958)
S.R.C. PLAT No. 21619 & 21620 (ISSUED FEBRUARY 24, 1959)
S.R.C. PLAT No. 41308 (ISSUED OCTOBER 19, 1970)
S.R.C. PLAT No. 43208 (ISSUED JULY 12, 1972)

OWNER:
LDG INC.
LEE PLAZA, SUITE 200
8601 GEORGIA AVENUE
SILVER SPRING, MD 20910
301-585-7000

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

PROFESSIONAL CERTIFICATION
I hereby certify that this document was prepared by me or under my responsible charge, and that I am a duly licensed Professional Land Surveyor under the laws of the State of Maryland, License No. 21266, Expiration Date 09/09/15, in accordance with COMAR 09.13.06.12.
T. Michael VanSant 4/22/2015
For VanMar Associates, Inc. Date
T. Michael VanSant, Prof. Land Surveyor



DATE	REVISIONS
04/13/15	TERRAPIN BRANCH

PERCOLATION TEST PLAN
PARCEL 43 & 103
LDG INC.
L. 1988 F. 258 & L. 9416 F.258
SITUATED ON LIVESTOCK ROAD
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' MARCH, 2015

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 858-2860 (301) 831-5015 (410) 548-2751
©Copyright, Latest Date Shown

SQUARE FOOTAGE CHART	
NAME	AREA
FIRST FLOOR PLAN (TRADITIONAL ELEV.)	1748
SECOND FLOOR PLAN (TRADITIONAL ELEV.)	1708
BASE SQUARE FOOTAGE	3456
COLONIAL ELEVATION	+ 109
COUNTRY ELEVATION	+ 109
GEORGIAN ELEVATION	+ 131
VICTORIAN ELEVATION	+ 162
ELEVATION A	+ 215
ELEVATION B	+ 215
OPT. LIVING RM. / DINING RM BAY WINDOW	+ 16
OPT. SIDE LIBRARY BAY WINDOW	+ 18
ALT. OWNERS SUITE W/ 3-CAR SIDE LOAD GARAGE	+ 5
BEDROOM 5 OVER STD FAMILY ROOM	+ 287
BEDROOM 5 OVER EXT. FAMILY ROOM	+ 395
OPT. SIDE CONSERVATORY	+ 252
OPT. FIRST FLOOR SUITE W/ BATH	+ 331
OPT. FIRST FLOOR SUITE 2 W/ BATH	+ 378
OPT. ALT. FIRST FLOOR SUITE W/ BATH	+ 471
OPT. 6' LIBRARY EXT.	+ 79
OPT. 6' FAMILY ROOM EXT.	+ 120
OPT. 12' MORNING ROOM / DES. KIT. / GRAND MR.	+ 244
OPT. REAR SUNROOM	+ 161
OPT. COMBO 12' MORNING ROOM & 6' F.R. EXT.	(361)
OPT. COMBO 12' MORNING ROOM & 6' F.R. & 6' LIB. EXT.	(440)
OPT. COMBO 12' MORNING ROOM & 6' F.R. & SUNROOM	(519)
OPT. FINISHED BASEMENT (TOTAL BASE HOUSE)	1318
OPT. REC. ROOM	662
OPT. DEN	308
OPT. BATH	49
OPT. EXERCISE ROOM	221
OPT. FINISHED STORAGE CLOSET	79
EXT. REC. RM. W/ 6' LIBRARY EXT.	+ 79
EXT. REC. RM. OPT. 6' FAMILY ROOM EXT.	+ 106
EXT. REC W/ OPT. REAR SUNROOM	+ 153
EXT. REC W/ OPT. 12' MORNING ROOM ONLY	(+ 7)
EXT. DEN W/ OPT. 12' MORNING ROOM	+ 226
EXT. DEN W/ COMBO OPT. 12' MR & 6' FAMILY RM. EXT.	(+ 13)
EXT. REC W/ COMBO OPT. 12' M.R. & 6' F.R. & SUNROOM	(- 5)
EXT. EXERCISE RM. W/ COLONIAL ELEVATION	+ 25
EXT. STORAGE CLOSET W/GEORGIAN ELEVATION	+ 15
EXT. EXERCISE RM. W/ VICTORIAN ELEVATION	+ 25
EXT. EXERCISE RM. W/ ELEVATION A & B	+ 25
EXT. STORAGE CLOSET W/ ELEVATION A & B	+ 7

Health Department



SQUARE FOOTAGE CHART (CONT'D)	
NAME	AREA
GARAGE 2-CAR	464
GARAGE 2-CAR (W/ ELEVS A & B)	+ 42
GARAGE 3-CAR SIDE LOAD	+ 168
GARAGE 3RD CAR FRONT LOAD	+ 227
UNFINISHED BASEMENT (BASE HOUSE)	1748
UNFIN. BSMT. W/ COLONIAL ELEVATION	+ 55
UNFIN. BSMT. W/ COUNTRY ELEVATION	+ 55
UNFIN. BSMT. W/ GEORGIAN ELEVATION	+ 22
UNFIN. BSMT. W/ ELEVATION	+ 0
UNFIN. BSMT. W/ 6' LIBRARY EXT.	+ 79
UNFIN. BSMT. W/ OPT. 6' FAMILY ROOM EXT.	+ 114
UNFIN. BSMT. W/ OPT. 12' MORNING ROOM	+ 244
UNFIN. BSMT. W/ OPT. REAR SUNROOM	+ 161
UNFIN. BSMT. W/ COMBO OPT. 12' M.R. & 6' FAMILY RM. EXT.	(- 3)
UNFIN. BSMT. W/ COMBO OPT. 12' M.R. & 6' F.R. & SUNROOM	(- 6)
UNFIN. BSMT. W/OPT. SIDE CONSERVATORY	+ 252
UNFIN. BSMT. W/OPT. FIRST FLOOR SUITE W/ BATH	+ 331
UNFIN. BSMT. W/OPT. FIRST FLOOR SUITE 2 W/ BATH	+ 378
UNFIN. BSMT. W/ OPT. ALT. FIRST FLOOR SUITE W/ BATH	+ 471

1/21/15 ATTACHED WAS SUBMITTED AS PART OF THE BUILDING PERMIT HO REVIEW (B14003663)

MID-ATLANTIC AREA

[NOTE ADDED 12/2:] 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)

Bellemead ESTIM 107 (4) B14003663

COLORADO

REVISION DATE: 08-11-2014

1CO

2012 INTERNATIONAL RESIDENTIAL CODE

" 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 CATAGORY	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	Termite					
	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 ROYER
 WINDOW HEAD HEIGHT.

SHEET NUMBER
5A

SCALE

DRAWN BY
ACI

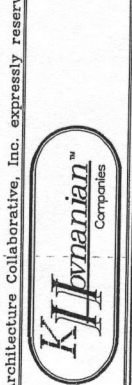
DATE
02-01-12

REV.#	DATE	REVISIONS

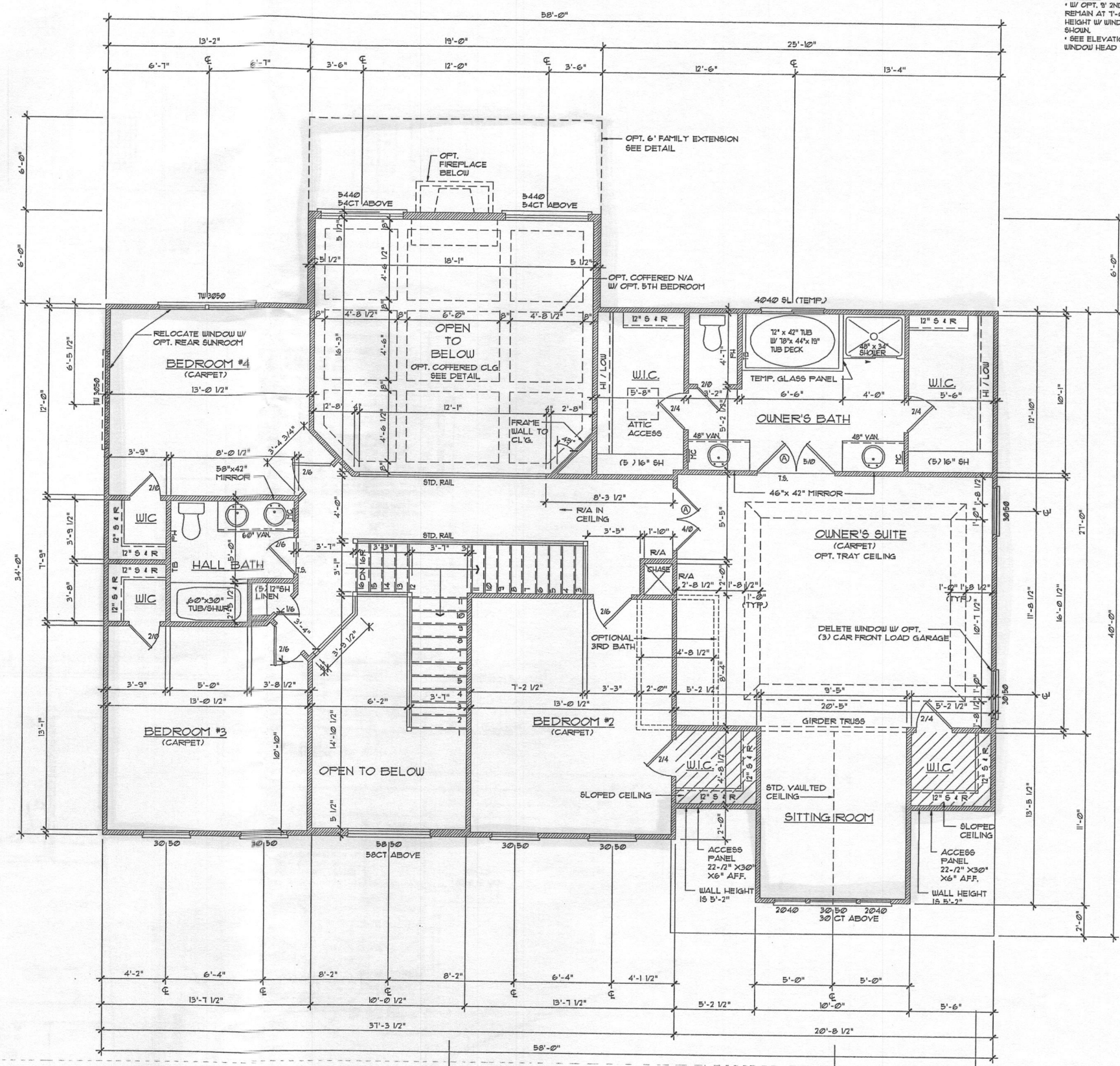
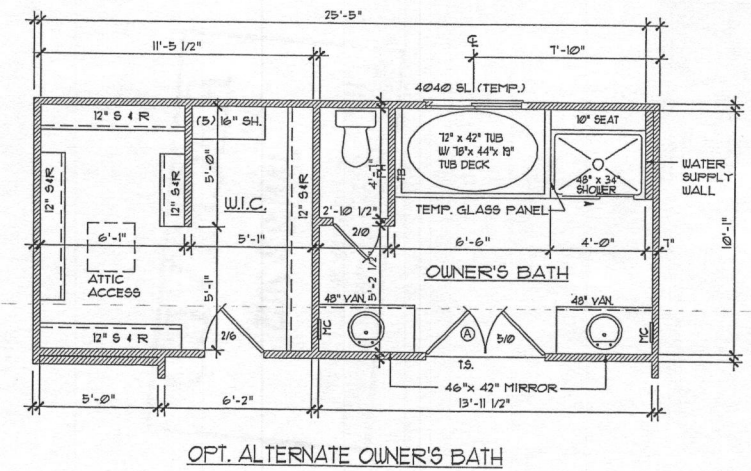
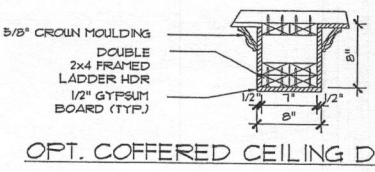
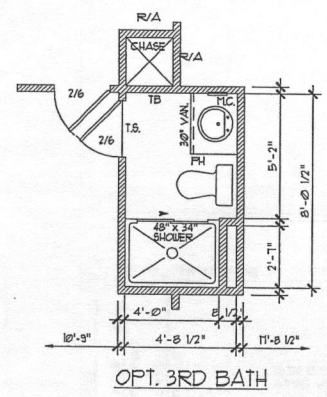
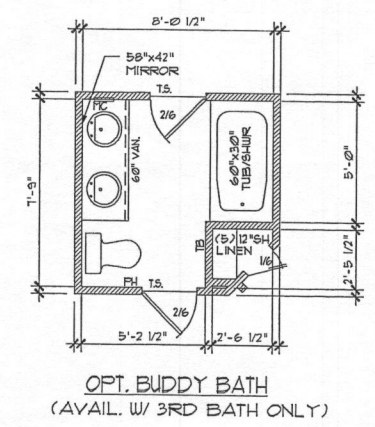
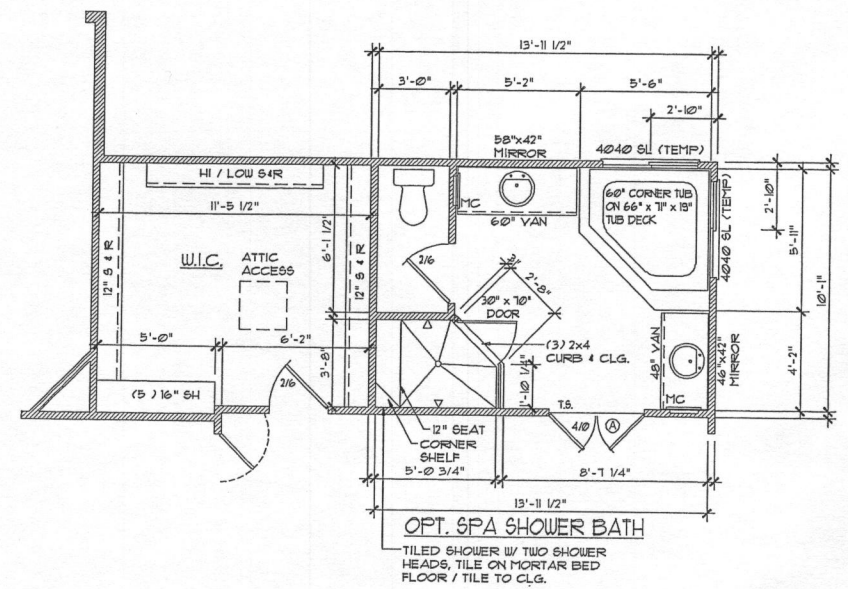
REV.#	DATE	REVISIONS

MODEL
COLORADO

SET #



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COLORADO
KV_003_5A

- GENERAL NOTES**
1. BASE SQUARE FOOTAGE OF HOUSE: 3,562 SQ.FT.
 2. NUMBER OF BEDROOMS: 4
 3. EJECTOR PUMP REQUIRED TO SEWER BASEMENT
 4. A DRIVEWAY CULVERT IS NOT REQUIRED PER THE APPROVED ROAD DRAWINGS, F-07-38.
 5. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/6/13 COMPREHENSIVE ZONING PLAN.
 6. FLAT REFERENCE: #1918
 7. 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.
 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: 15,403 SQ. FT. / 0.35 AC.
 12. PREVIOUSLY APPROVED FINAL PLAN (F-07-38).
 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 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.
 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 HAS PREVIOUSLY APPROVED UNDER F-07-38.
 22. THE EXISTING WELL SHOWN (HO-095-0649) HAS BEEN FIELD LOCATED AND IS SHOWN ACCURATELY.
 23. 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:**
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 MAY 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.

SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

1. INVERT @ FOUNDATION WALL: 523.9 (BASEMENT PUMP REQUIRED)
2. 600 GPD BNR SYSTEM w/ 750 GALLON PUMP CHAMBER
EX. GRADE OVER TANK: 524.5
PROPOSED GRADE OVER TANK: 524.5
INVERT: 524.2
3. DISTRIBUTION BOX
EX. GRADE OVER TANK: 523.0
INVERT: 521.5
4. 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/ 48" OF GRAVEL BELOW PIPE
500 SF / 3' WIDTH = 167 LF x 0.45 = 76 LF MIN. TRENCH

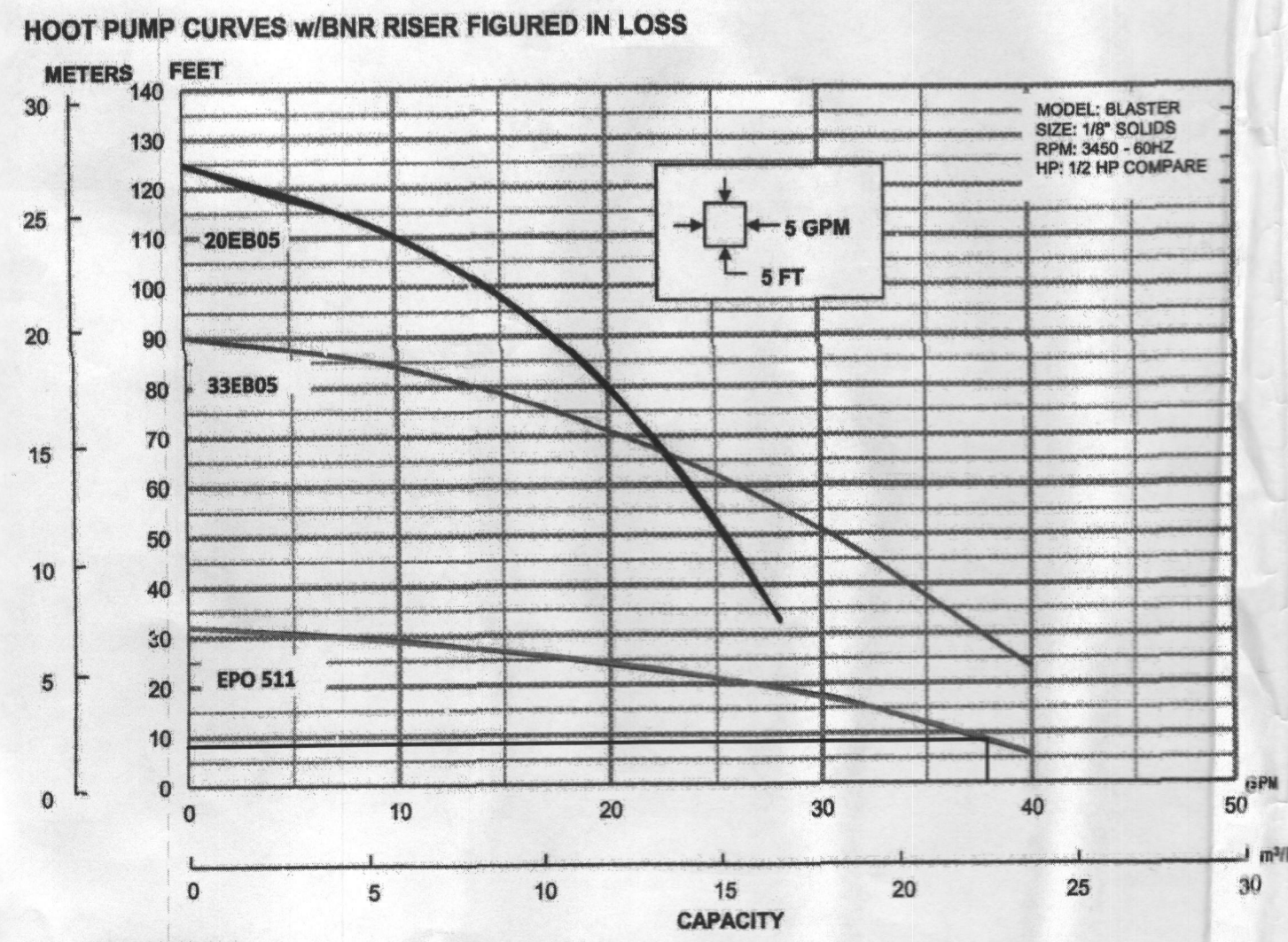
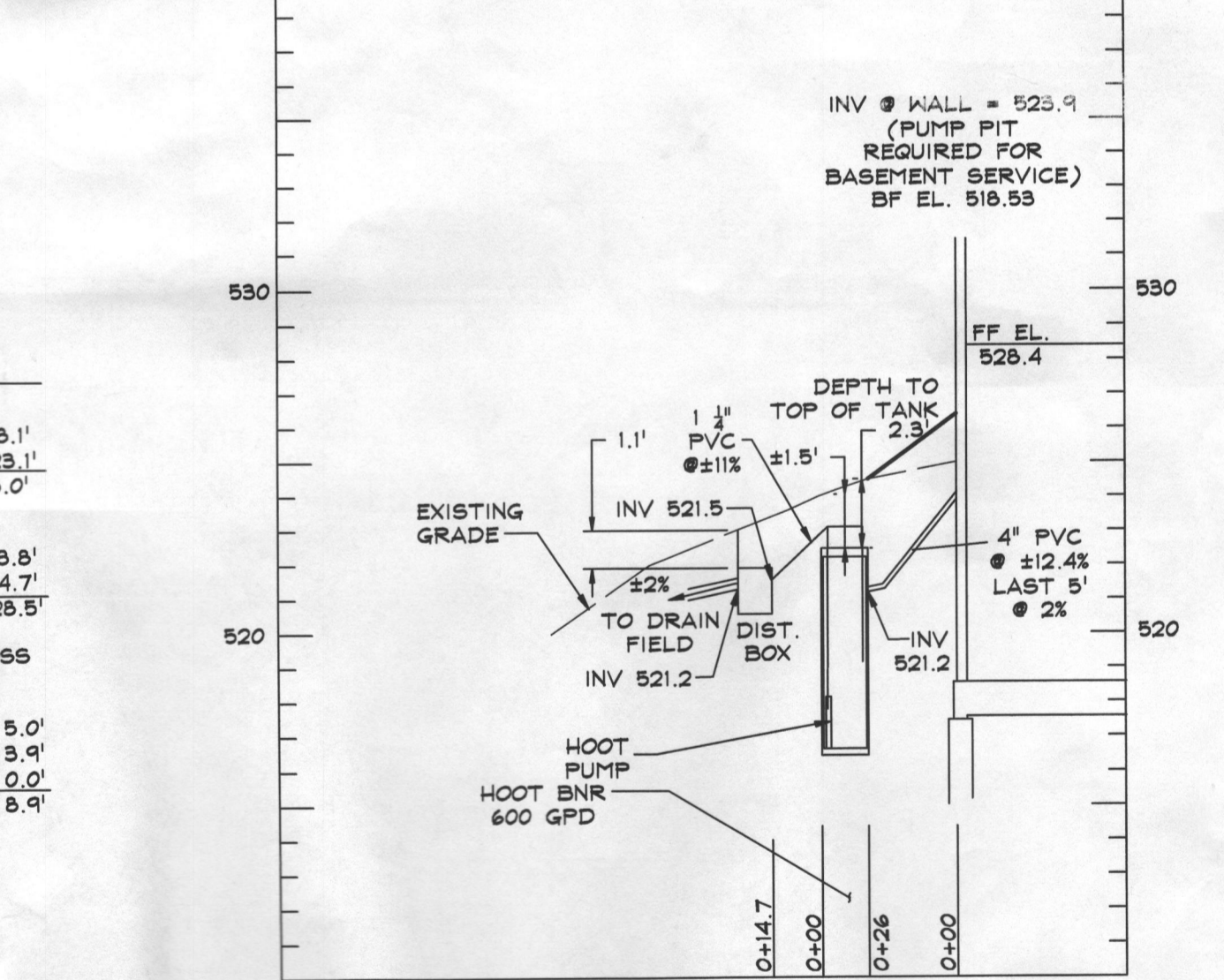
1ST/2ND REPLACEMENT SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH w/ 48" OF GRAVEL BELOW PIPE
500 SF / 3' WIDTH = 167 LF x 0.41 = 69 LF MIN. TRENCH

11' MIN SPACING BETWEEN TRENCH EDGES

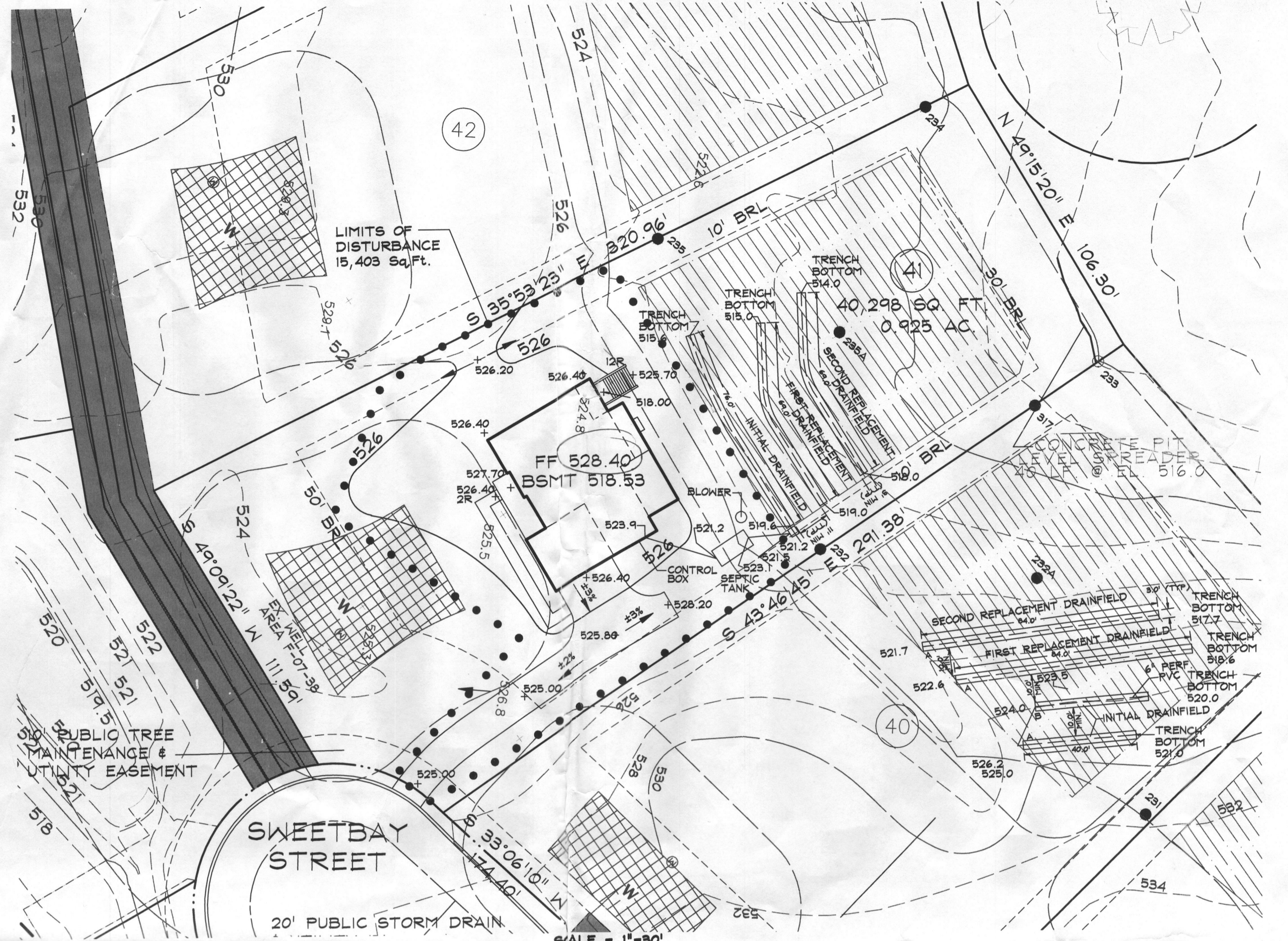
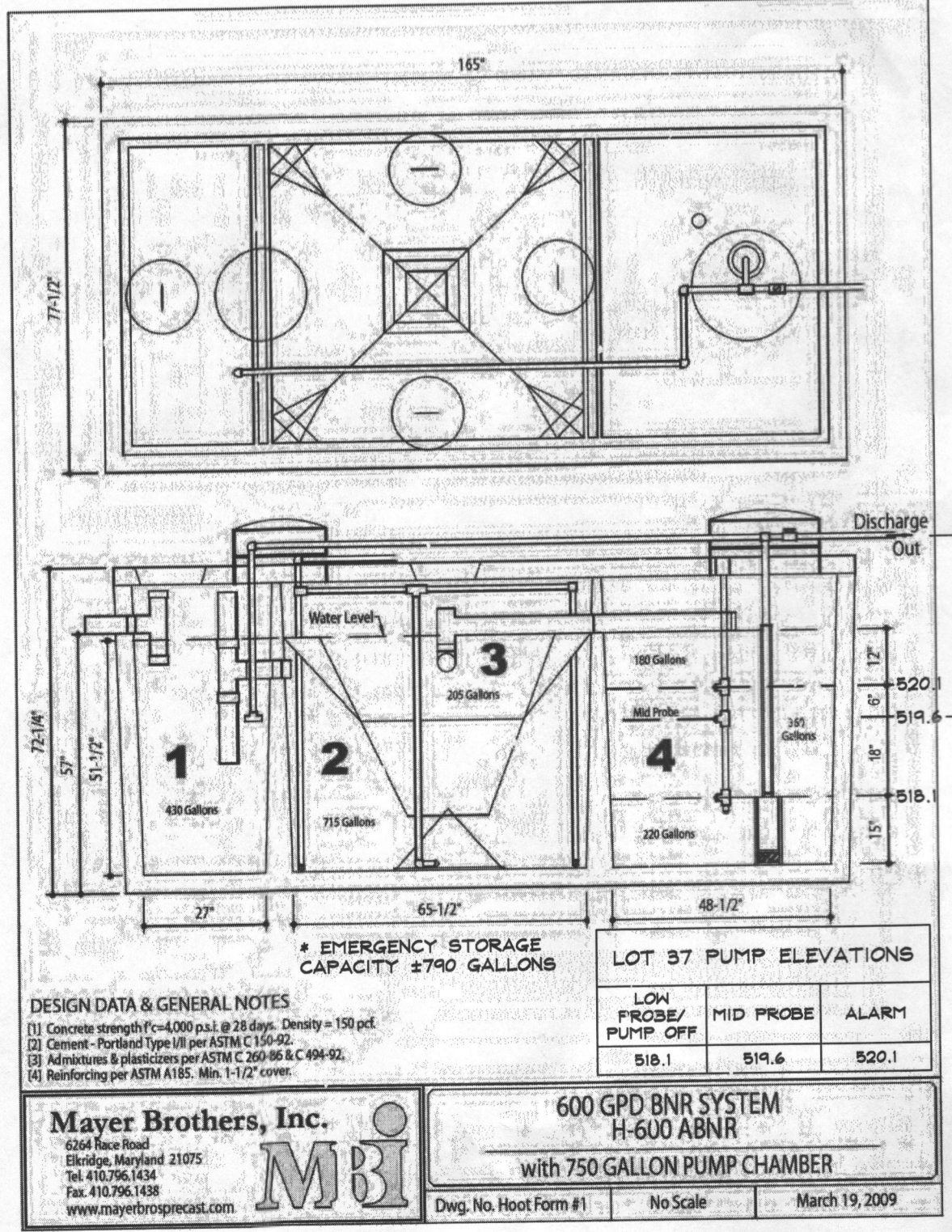
USE 1 - 76' LONG TRENCH FOR INITIAL SYSTEM
USE 1 - 69' LONG TRENCH FOR FIRST REPLACEMENT SYSTEM
USE 1 - 69' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

STATIC HEAD	5.0'
FRICTION HEAD	3.9'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	8.9'
GALLONS PER MINUTE	37.0 GPM
DOSE	74.0 GAL
PUMP RUN TIME	2.0 MIN

TOTAL DYNAMIC HEAD CALCULATIONS	
STATIC HEAD	5.0'
OFF FLOOR ELEVATION:	518.1'
HIGH POINT OF THE SYSTEM:	523.1'
VERTICAL ELEVATION CHANGE:	5.0'
FRICTION HEAD	13.8'
FITTINGS:	14.7'
LENGTH OF PVC PIPE:	28.5'
TOTAL LENGTH	28.5'/100 x 13.62 = 3.9' TOTAL FRICTION LOSS
TOTAL HEAD	5.0'
VERTICAL ELEVATION CHANGE	3.9'
TOTAL FRICTION LOSS	0.0'
SYSTEM PRESSURE REQUIREMENTS	0.0'
TOTAL DYNAMIC HEAD	8.9'

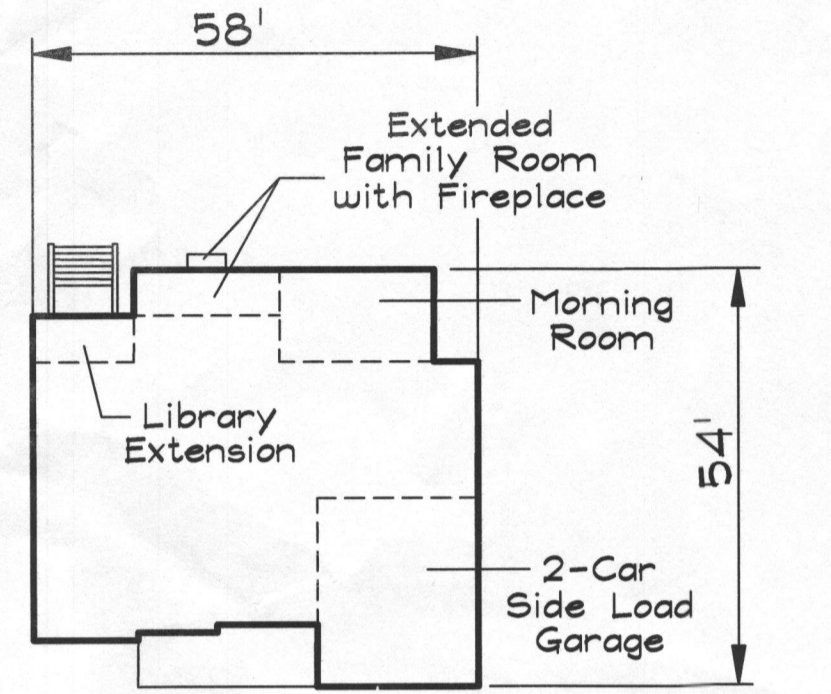
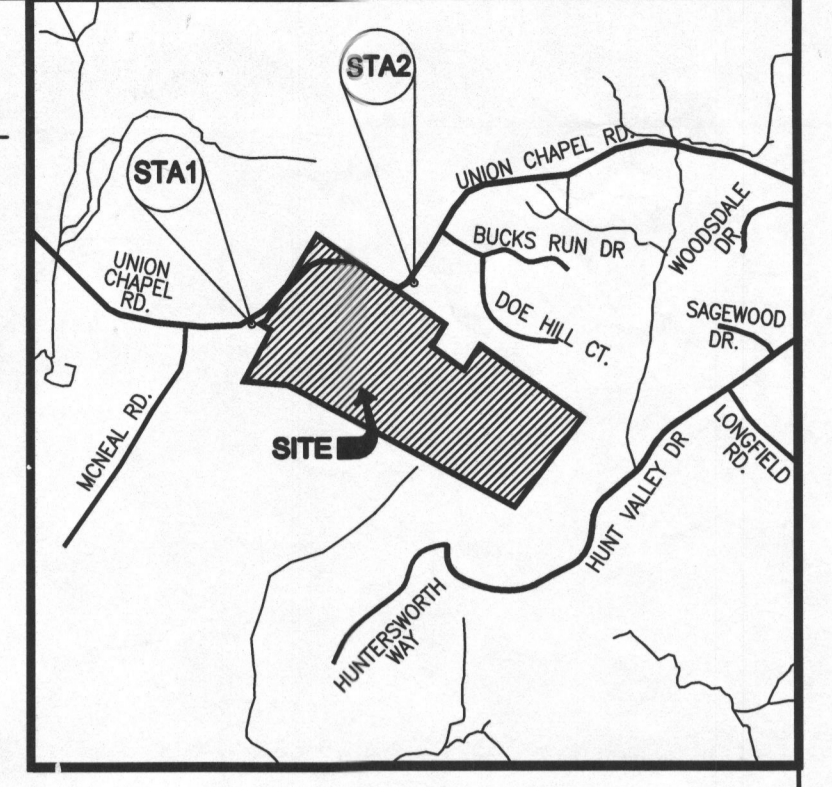


LOT 35 SYSTEM TRENCH SPECIFICATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH (76')	523.6	519.6	515.6
FIRST REPLACEMENT TRENCH (69')	523.0	519.0	515.0
SECOND REPLACEMENT TRENCH (69')	522.0	518.0	514.0



BENCHMARK

GEODETTIC SURVEY CONTROL #1	
N.	691460.42
E.	1297071.25
A.A.	146A
ELEV.	836.43
GEODETTIC SURVEY CONTROL #2	
N.	691693.88
E.	1299151.80
B.M.	140B
ELEV.	642.23
ADC MAP COORDINATES	
461204	



DRAWING LEGEND

- 500 PROPOSED GRADE
- 502 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
- 174 PASSED PERCOLATION TEST
- 127 FAILED PERCOLATION TEST

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

Approved Septic System Plan
Howard County Health Department
Dana Burund 12-10-14
Signature B140033da3

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. 27289 EXPIRATION DATE: JANUARY 26, 2016

10/28/2014
DATE

PAUL G. GAVANAUGH

BELLE HAVEN ESTATES
LOT 41

**SITE PLAN FOR
BAT INSTALLATION**

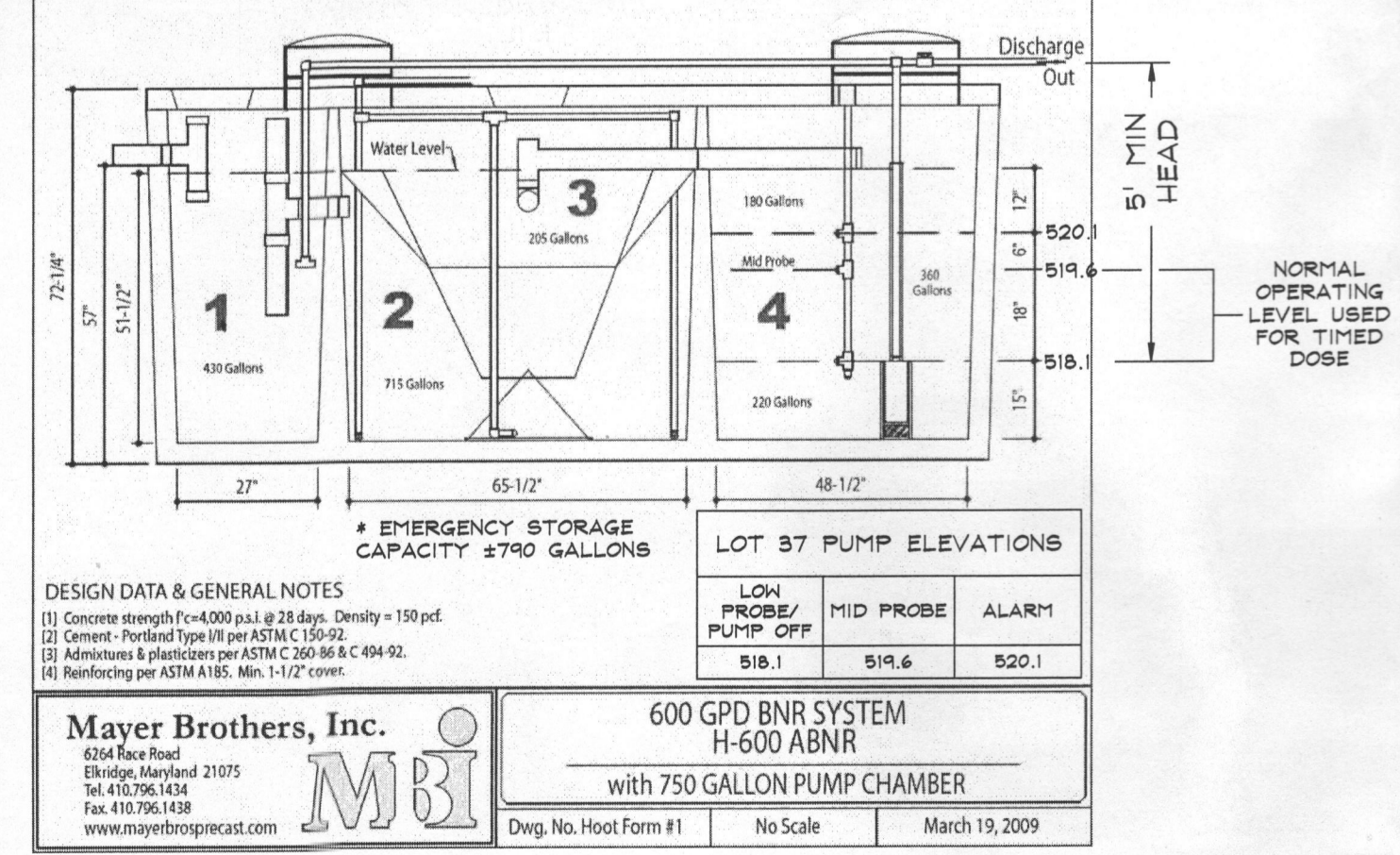
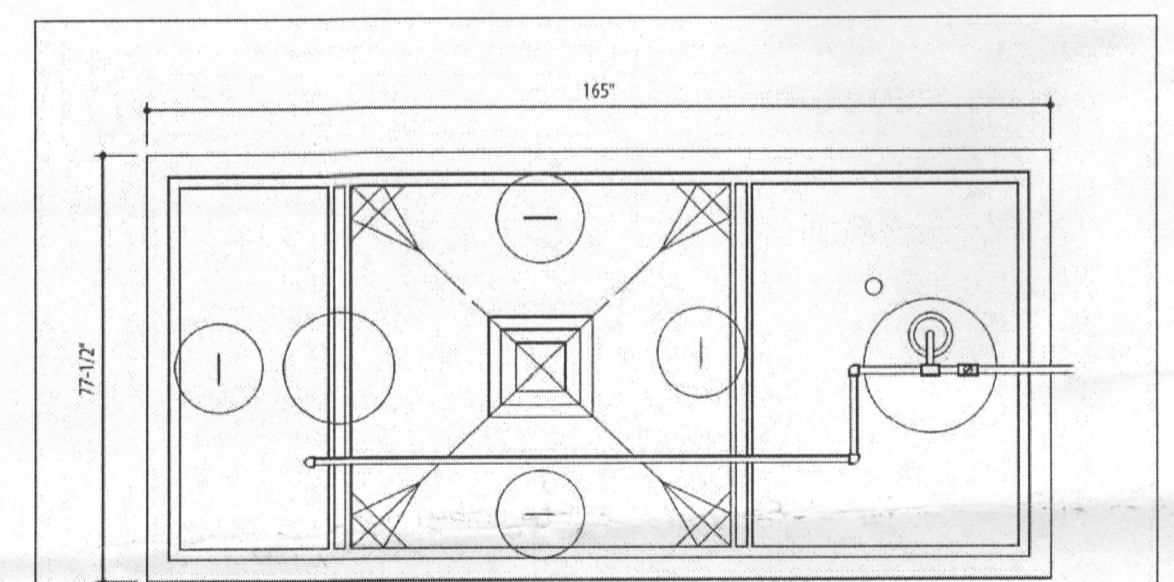
3rd ELECTION DISTRICT HOWARD COUNTY

REVISIONS	
NO.	DESCRIPTION OF CHANGES

CO. FILE #:	DES. BY: BKC
TAX ACC. #:	DRN. BY: BKC
TAX MAP: 14	CHK. BY: PGC
BLOCK / GRID:	DATE: 12/02/14
PARCEL # 86	DDC JOB#: 06116.5
ZONE / USE: RC-DEO	SHEET NUMBER:
DWG. SCALE: 1"=30'	1 of 1

- GENERAL NOTES**
1. BASE SQUARE FOOTAGE OF HOUSE: 3,562 SQ.FT.
NUMBER OF BEDROOMS: 4
 2. EJECTOR PUMP REQUIRED TO SENIOR BASEMENT
 3. A DRIVEN CULVERT IS NOT REQUIRED PER THE APPROVED ROAD DRAWINGS: F-07-38
 4. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/6/13 COMPREHENSIVE ZONING PLAN.
 5. PLAT REFERENCE: #19948
 6. BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DDM, 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 TAKEOFF 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 DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410)318-1881 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: 15,403 SQ. FT. / 0.35 AC.
 11. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-58).
 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 DISAGREEMENT.
 15. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 16. 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 BE MAINTAINED 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.
 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 SHOWN.
 17. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 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 CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-07-38.
 20. THE EXISTING WELL SHOWN (HO-095-0649) HAS BEEN FIELD LOCATED AND IS SHOWN ACCURATELY.
 21. 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:**
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 MAY 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, 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.



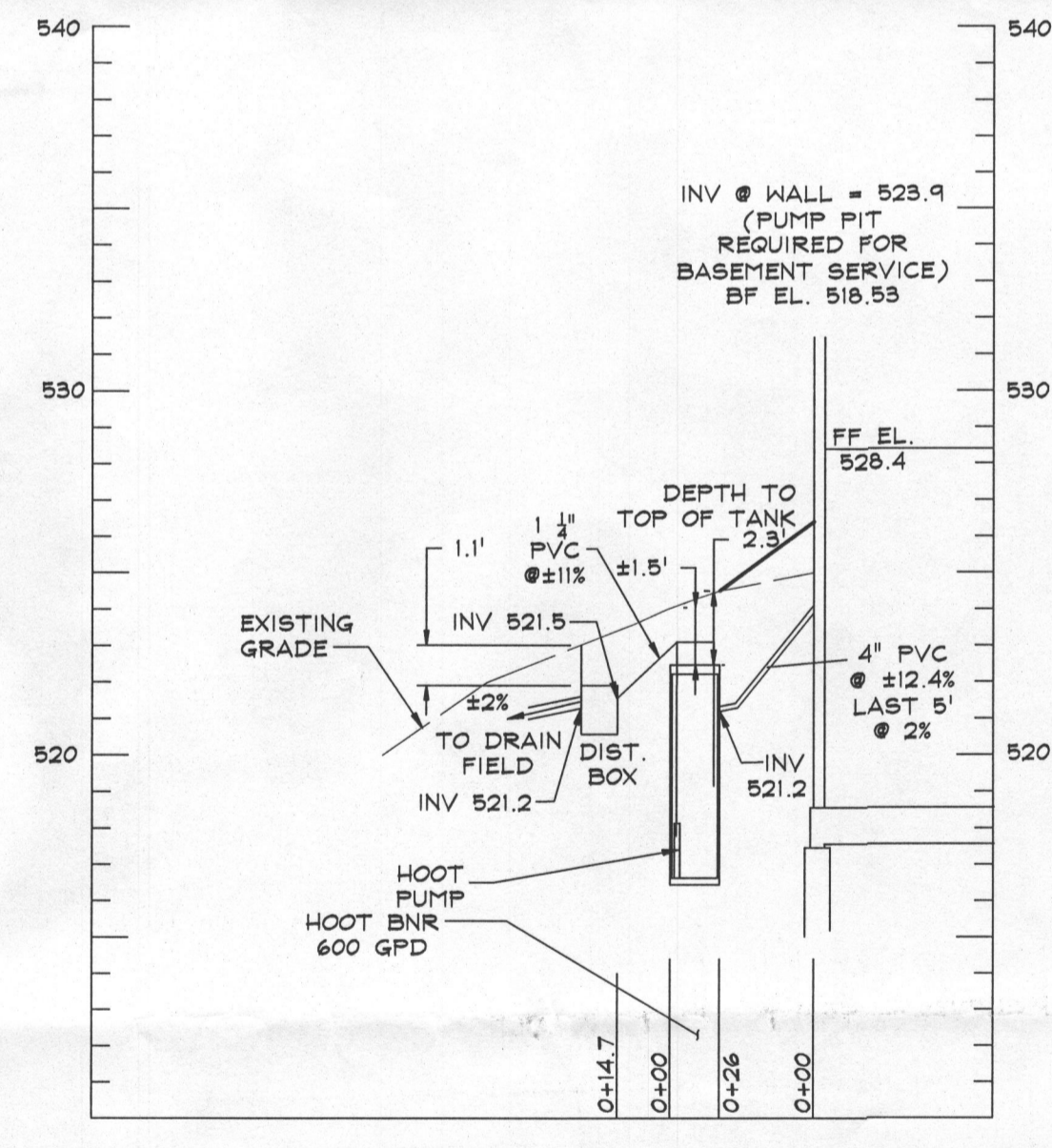
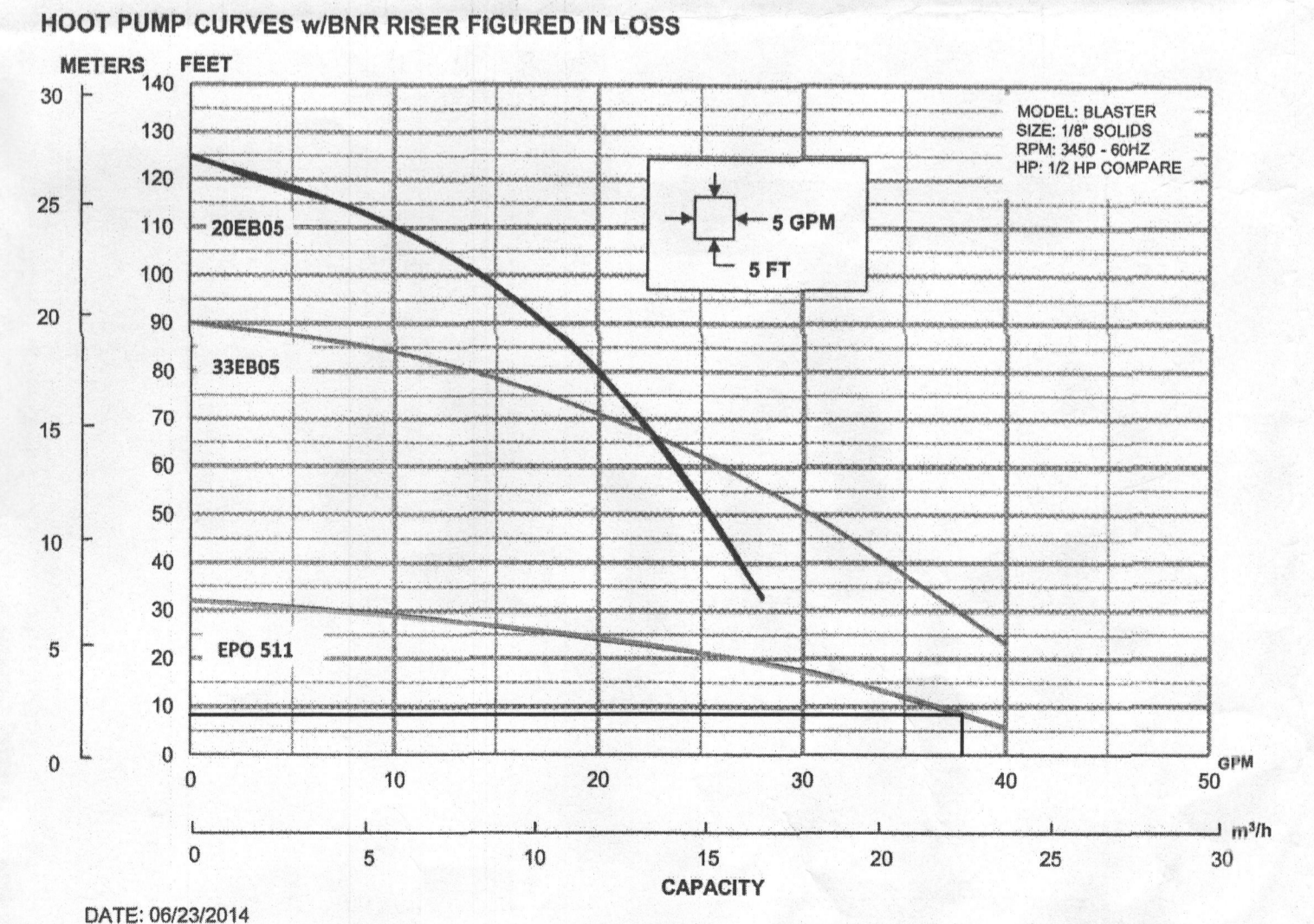
SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):

1. INVERT @ FOUNDATION WALL: 525.9 (BASEMENT PUMP REQUIRED)
2. 600 GPD BNR SYSTEM w/ 750 GALLON PUMP CHAMBER
EX. GRADE OVER TANK: 524.5
PROPOSED GRADE OVER TANK: 524.5
INVERT: 524.2
3. DISTRIBUTION BOX
EX. & PROPOSED GRADE OVER TANK: 523.0
INVERT: 521.5
4. TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)

STATIC HEAD	5.0'
FRICTION HEAD	3.9'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	8.9'
GALLONS PER MINUTE	37.0 GPM
DOSE	74.0 GAL
PUMP RUN TIME	2.0 MIN

TOTAL DYNAMIC HEAD CALCULATIONS

STATIC HEAD	5.0'
OFF FLOAT ELEVATION:	518.1'
HIGH POINT OF THE SYSTEM:	+ 523.1'
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TOTAL HEAD	
VERTICAL ELEVATION CHANGE	5.0'
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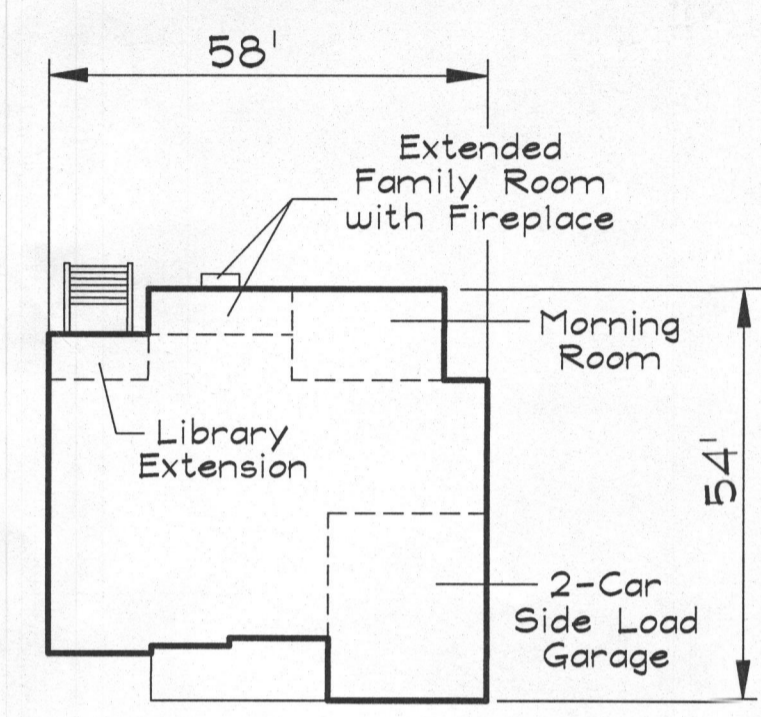
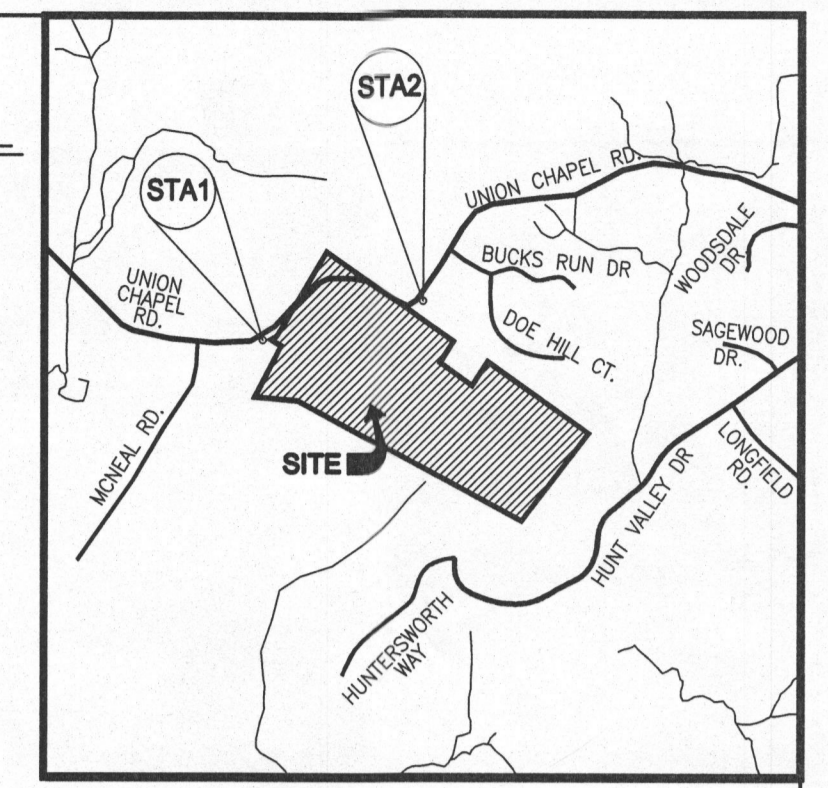
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LICENSE NO. 27029, EXPIRATION DATE: JANUARY 26, 2016

DATE: 10/28/2014

PAUL G. CAVANAUGH
PROFESSIONAL ENGINEER



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
www.DDCinc.us

OWNER:
K. HOVANNAN HOMES
1822 Brightwood Road
Lansdowne, Maryland 20785
(301) 683-6288

DEVELOPER:

SITE ADDRESS:
LOT 41
1822 Sweetbay Street
Woodlawn, Maryland 21107

**BELLE HAVEN ESTATES
LOT 41**

**SITE PLAN FOR
BAT INSTALLATION**

3rd ELECTION DISTRICT HOWARD COUNTY

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
CO. FILE #:		DES. BY: BKC		
TAX ACC. #:		DRN. BY: BKC		
TAX MAP: 14		CHK BY: PGC		
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PARCEL #: 66		DDC JOB#: 08118.5		
ZONE / USE: RC-DEO		SHEET NUMBER:		
DWG. SCALE: 1"=30'		1	of 1	

