**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

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

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

www.hchealth.orgFacebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 7/7/16**ONSITE SEWAGE DISPOSAL SYSTEM**P 558787APPROVAL DATE: 9/15/16 (SEC)**PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15428 Rivercrest CourtSUBDIVISION: RivercrestLOT: 7

TAX ID: _____

CONTRACTOR: Hatfield's EquipmentEMAIL: ken@hatfieldsequipment.comCONTRACTOR ADDRESS: P.O. Box 519, Annapolis Junction, MD 20701PHONE: 301-490-4289

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:



MDE



MANUFACTURER:

PROPERTY OWNER: Columbia Builders Inc.

EMAIL: _____

OWNER ADDRESS: P.O. Box 999 Columbia, MD 21044PHONE: 443-324-4725BAT UNIT MODEL: Norweco TNTLP-500

PUMP SIZE: _____

PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 7-16-16DATE RECORDED: 7-21-16

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 5APPLICATION RATE: 0.8

TRENCHES:

LINEAR FEET REQUIRED: 156.4INLET DEPTH: 4TRENCH WIDTH: 3MAXIMUM BOTTOM DEPTH: 7

MINIMUM SPACE

BETWEEN TRENCHES: 10EFFECTIVE AREA BEGINNING DEPTH: 4

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

Install 2 x 79' trenches on contour.ISSUED BY: Robert FreemanISSUE DATE: 8-16-16EXPIRATION DATE: 7-7-17**NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION****NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING****NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.****NOTE: WATERTIGHT SEPTIC TANKS REQUIRED****NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL****NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS****NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**

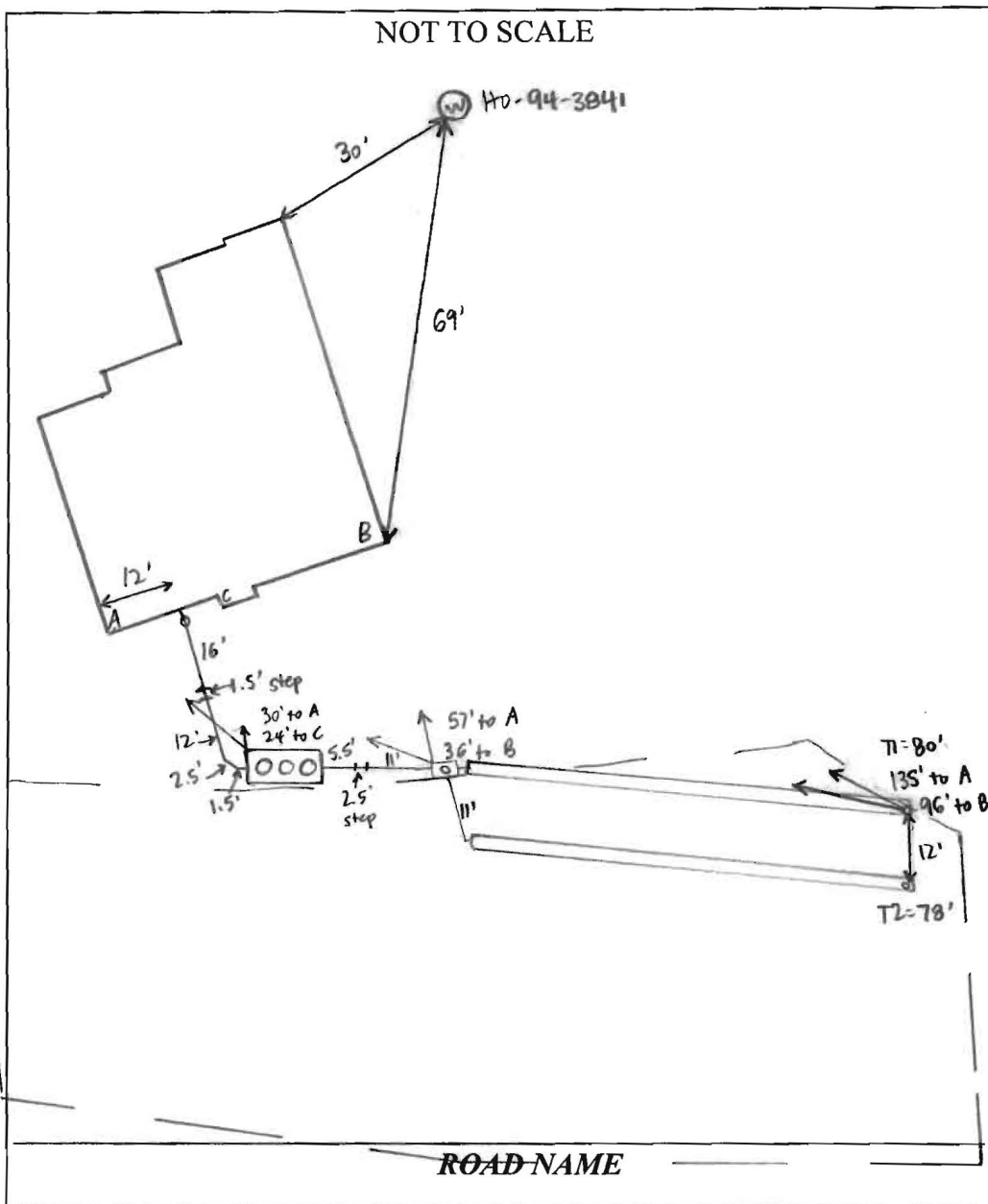
ELECTRICAL PERMIT ISSUED

E

16003699

NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.**NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA****NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.****PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.****CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		158'
ABSORPTION AREA		374' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	YES
MANUFACTURER	BACKRIVER/ NORWEGIC
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5-2'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	7-8-16

PUMP/SEPTIC TANK LEVEL

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

PRE-CONSTRUCTION:

8/17/16 Met Hatfield's on site for layout. All tank and SDA corner stakes present. Laid out 2 x 79' trenches on contour. (SC)

INSTALLATION: 8/30/16 Tank set, house connection made. Hatfield's digging T1 3.5-4' to stone, 7' bottom. D-box set. (SC) 8/31/16 Trenches complete, T2 open at ends and T1 left open. 3' wide, 3.5-4' to stone. Levelled speed levelers in D-box. Need BAT startup certification. (SC) 9/15/16 BAT startup certification received. (SC)

FINAL INSPECTOR

Sarah Collins

DATE OF APPROVAL

9/15/16

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 15428 Rivercrest Ct., Brookeville, MD 20833 August 30, 2016 was installed according to the manufacture's specifications.

Installer: Jeff Reiter

Property Owner: Joseph Januszewicz

Permit #

THIS CERTIFICATION IS FOR INSTALLATION ONLY. THE 5-YEAR OPERATIONS & MAINTENANCE AGREEMENT FROM DATE OF INSTALLATION WILL ONLY GO INTO EFFECT AFTER BACK RIVER PRE-CAST, LLC RECEIVES FINAL AND FULL PAYMENT FOR THE SYSTEM.



MATTHEW GECKLE
Vice-President

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: janusiewicz
Reference/Control #: 25

LR - Agreement Surcharge

	1x	40.00 40.00
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SubTotal:	60.00
Total:	60.00

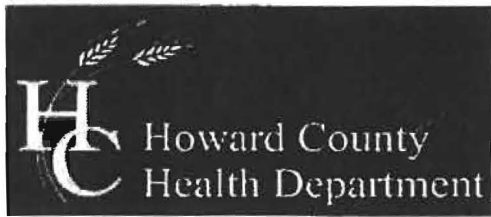
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REV-Check-BOA	60.00
Number : 4613	

=====

07/21/2016 10:37 CC13-LS
#6574469 /1247/109
***** DUPLICATE #001 *****

07/21/2016 10:38 CC13-LS
Thank you for visiting us today



Bureau of Environmental Health

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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 ____ day of July, among Joseph E. Januszewicz and Ashlee N. Januszewicz, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 15428 Rivercrest Ct., Brookeville, Md. 20833, in the 4th 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 16721 Folio 89;

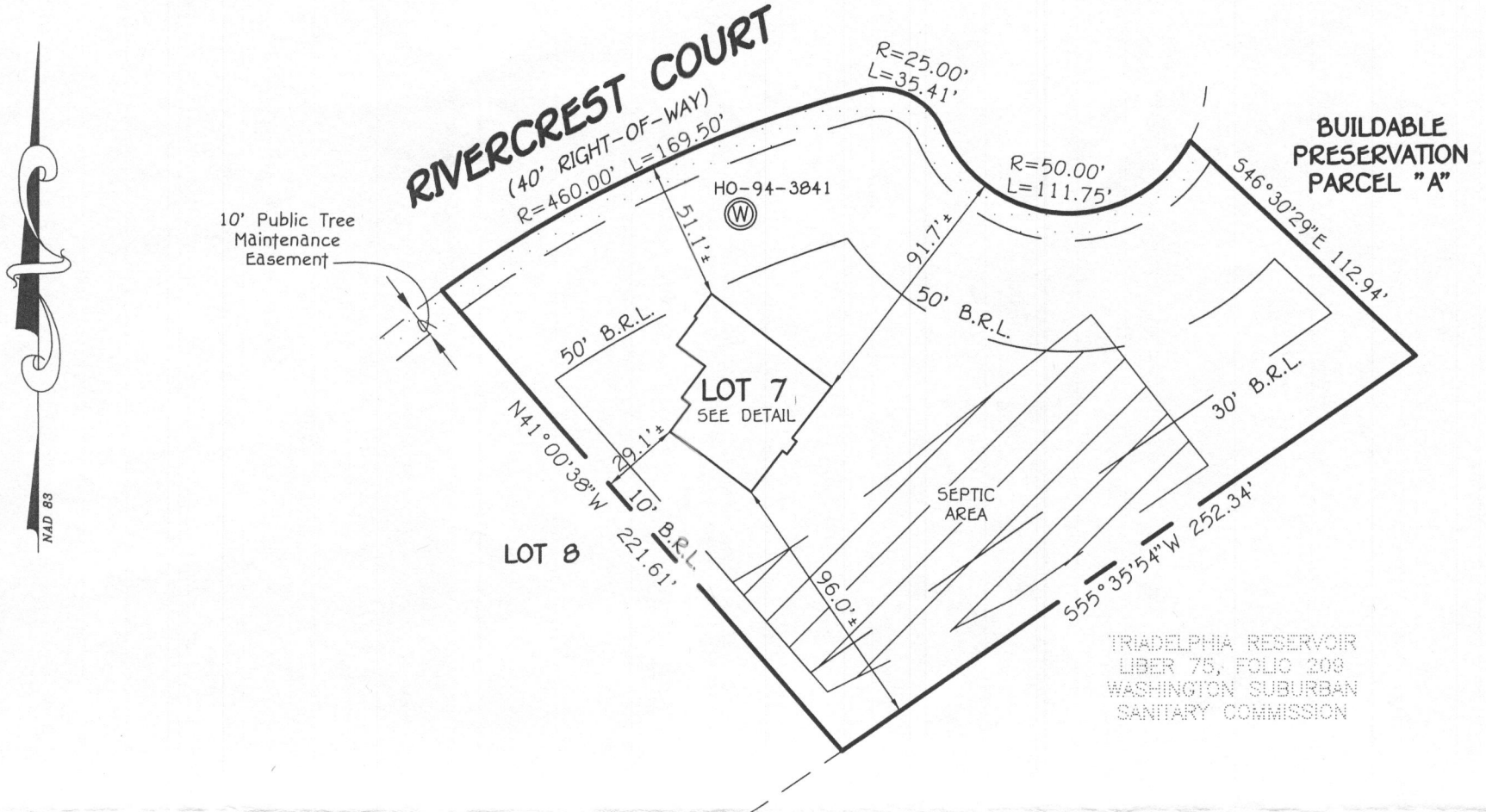
WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is Norweco-Singulair, Model TNTLP-500/600 GPD

NOW, THEREFORE, the parties hereto agree as follows:

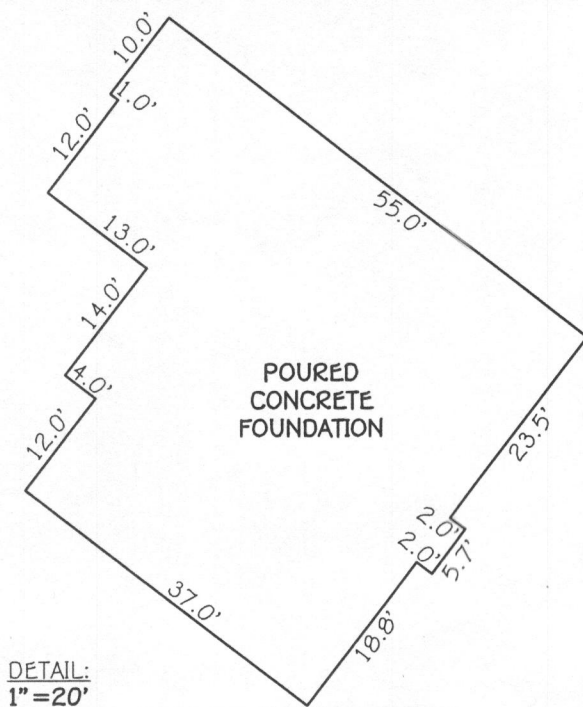
- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough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

GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C0045D EFFECTIVE NOV. 6, 2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS '1'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-94-3841 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROPERTY LINE SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/4/2016.
- 7) BUILDING PERMIT #(B-16001752)



Wall Check OK

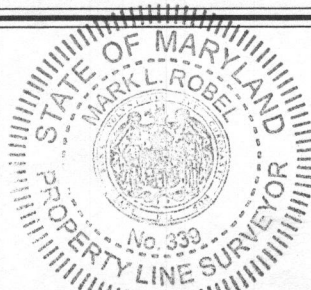


DETAIL:
1"=20'

#15428 RIVERCREST COURT
B.R.L.= BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 474.0'±

LOT #7
RIVERCREST
LOTS 1-10, BUILDABLE
PRESERVATION PARCEL 'A',
NON-BUILDABLE PRESERVATION
PARCEL 'B' & 'C' AND
NON-BUILDABLE BULK PARCEL 'D'
PLATS #18208 THRU 18210
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MD

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2855



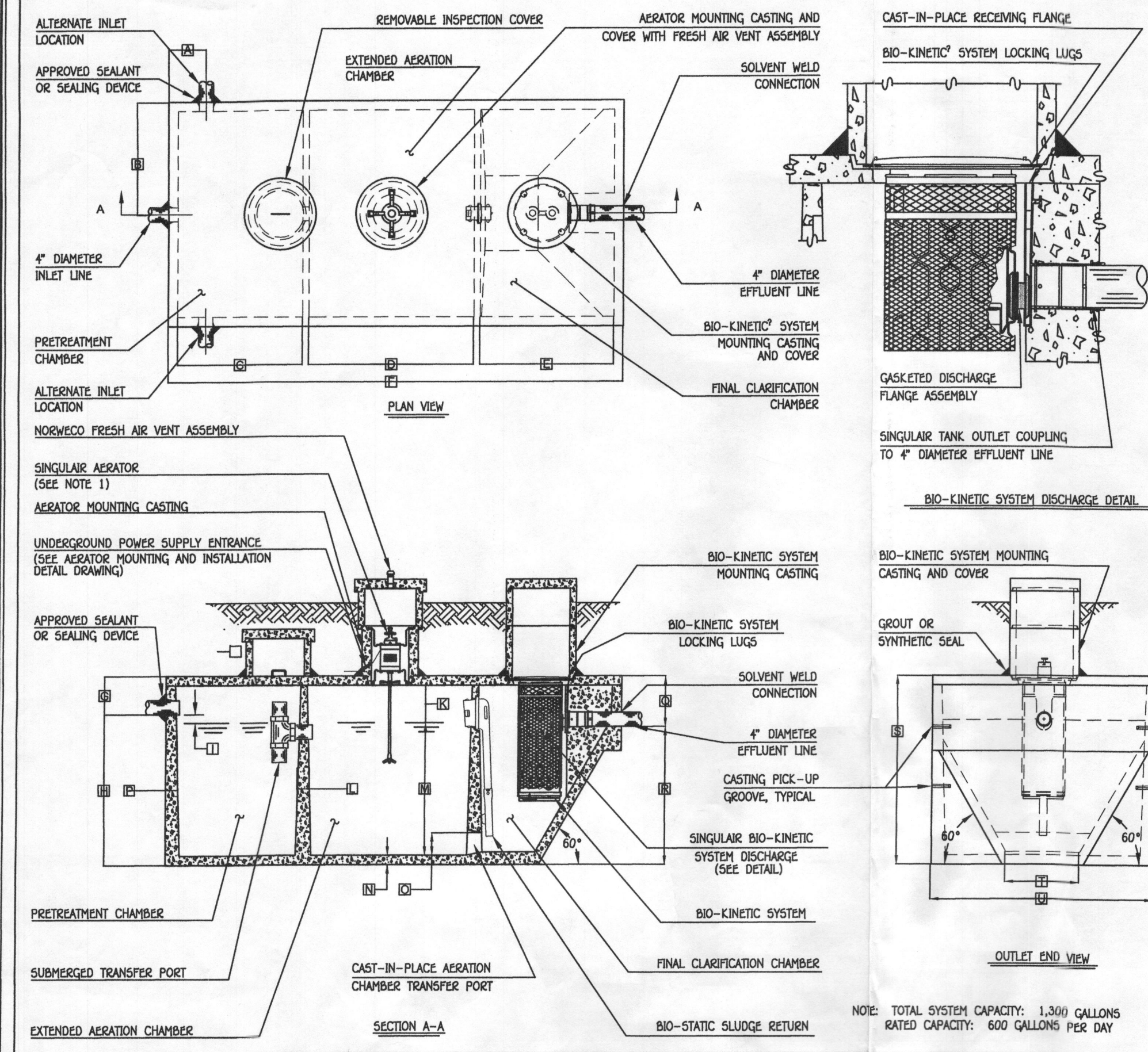
Mark L. Robel
PROPERTY LINE SURVEYOR
REQ. # 339

6/20/16
DATE

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 6/16/16
FINAL LOCATION: _____
BOUNDARY SURVEY: _____

SCALE: 1"=60'
DATE: 6/20/16
DRAWN BY: GAD
CHECKED BY: MLR
PROJECT No.: 30636-2001



GENERAL NOTES:

- SINGULAR ASBATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAR PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND ASBATOR MOUNTING CASTING AND BIO-KINETIC SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL LICENSED SINGULAR DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

NOTES:

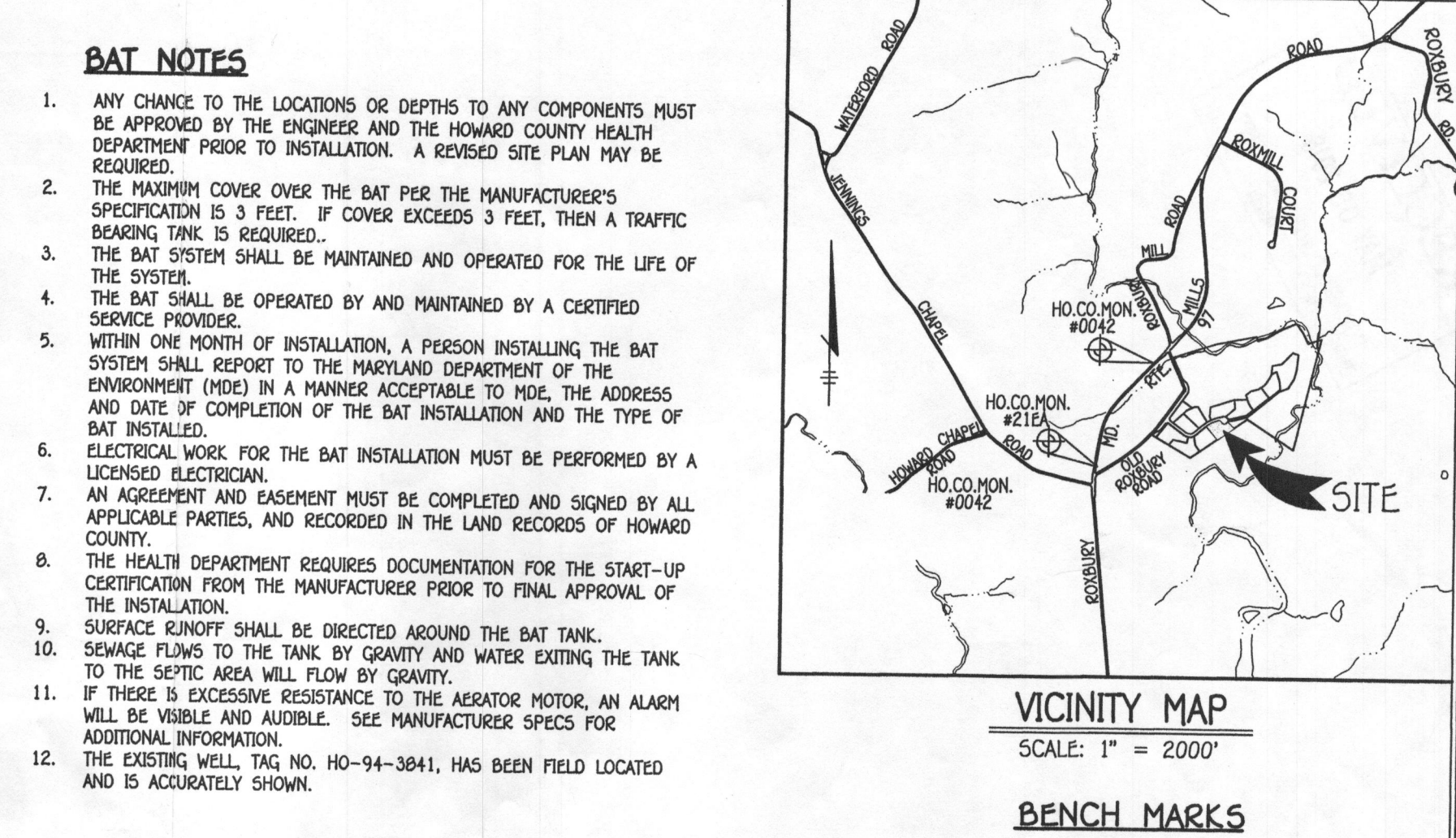
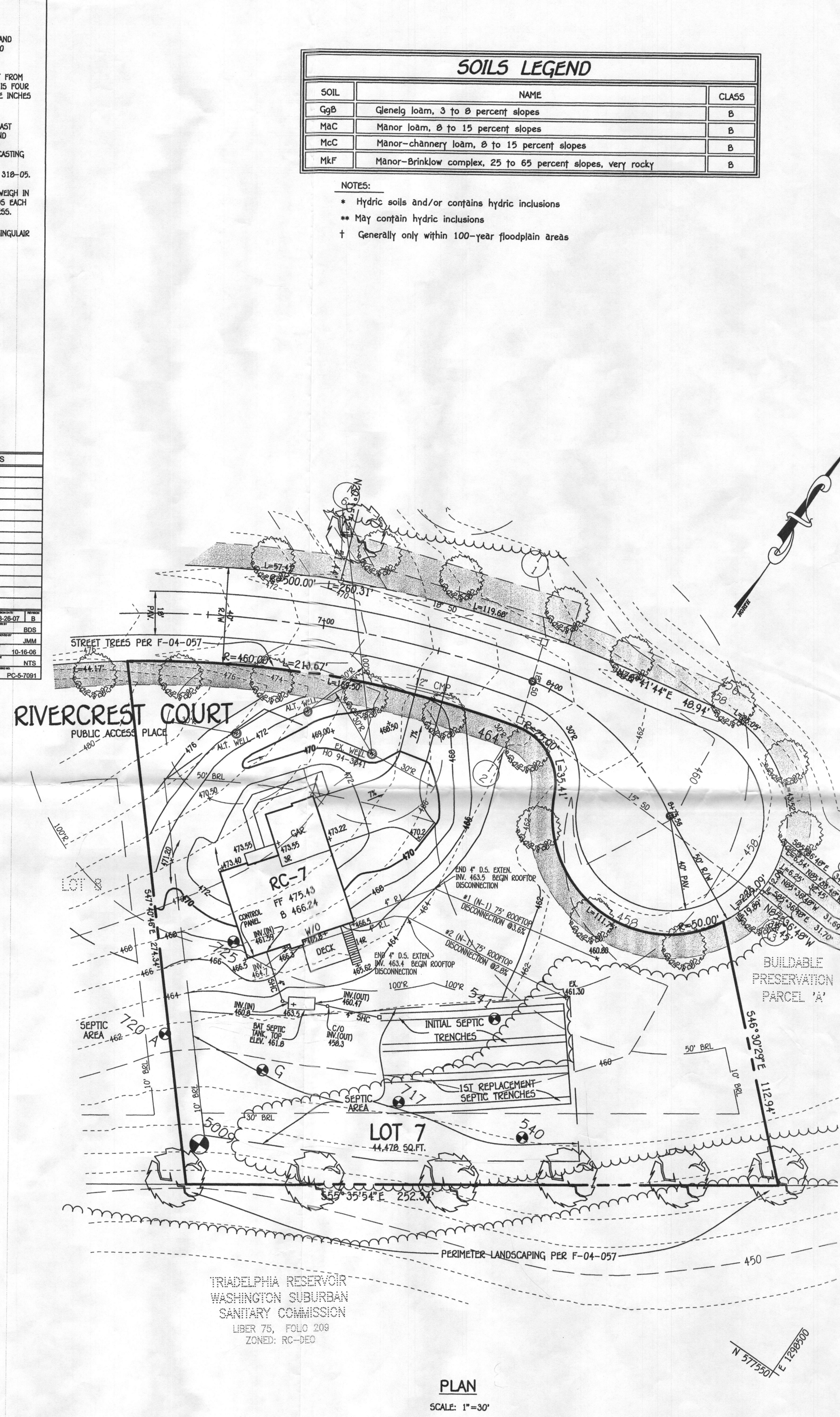
- Hydric soils and/or contains hydric inclusions
- May contain hydric inclusions
- Generally only within 100-year floodplain areas

CRITICAL DIMENSIONS

U.S. AND FOREIGN PATENTS PENDING	U.S. PATENT NO. 7,328,907	U.S. PATENT NO. 7,328,908
1" - 0"	0" - 3"	0" - 3"
3" - 0"	0" - 6"	0" - 6"
3" - 4"	0" - 3"	0" - 3"
4" - 5"	0" - 1"	0" - 1"
5" - 7"	0" - 3"	0" - 3"
12" - 2"	5" - 0"	5" - 0"
1" - 0"	12" - 0"	12" - 0"
4" - 0"	6" - 0"	6" - 0"
0" - 3"	0" - 3"	0" - 3"
0" - 1"	0" - 1"	0" - 1"
0" - 2"	0" - 2"	0" - 2"
3" - 6"	0" - 2"	0" - 2"

norweco 3-28-07 L B
LOW-PROFILE SINGULAR BIO-KINETIC WASTEWATER TREATMENT SYSTEM
MODEL TWTLP-600 GPD
NTS
PC-5-0391

NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 600 GALLONS PER DAY



SEWAGE DISPOSAL SYSTEM DATA (DESIGN FOR 5 BEDROOMS, INITIAL PERMIT SUBM. FOR 4)

PROP. INVERT AT FOUNDATION WALL: 430.30
1. NORWECO TWTLP-500 GPD (MAX. NO. BDRMS.=6)
EX. GRADE OVER TANK: 432.1
PROP. GRADE OVER TANK: 432.0
INVERT IN: 460.80
INVERT OUT: 460.47
TOP OF TANK ELEV.: 461.80

2. DISTRIBUTION BOX:
EX. GRADE: 461.9
PROP. GRADE: 461.9
INVERT IN: 457.9

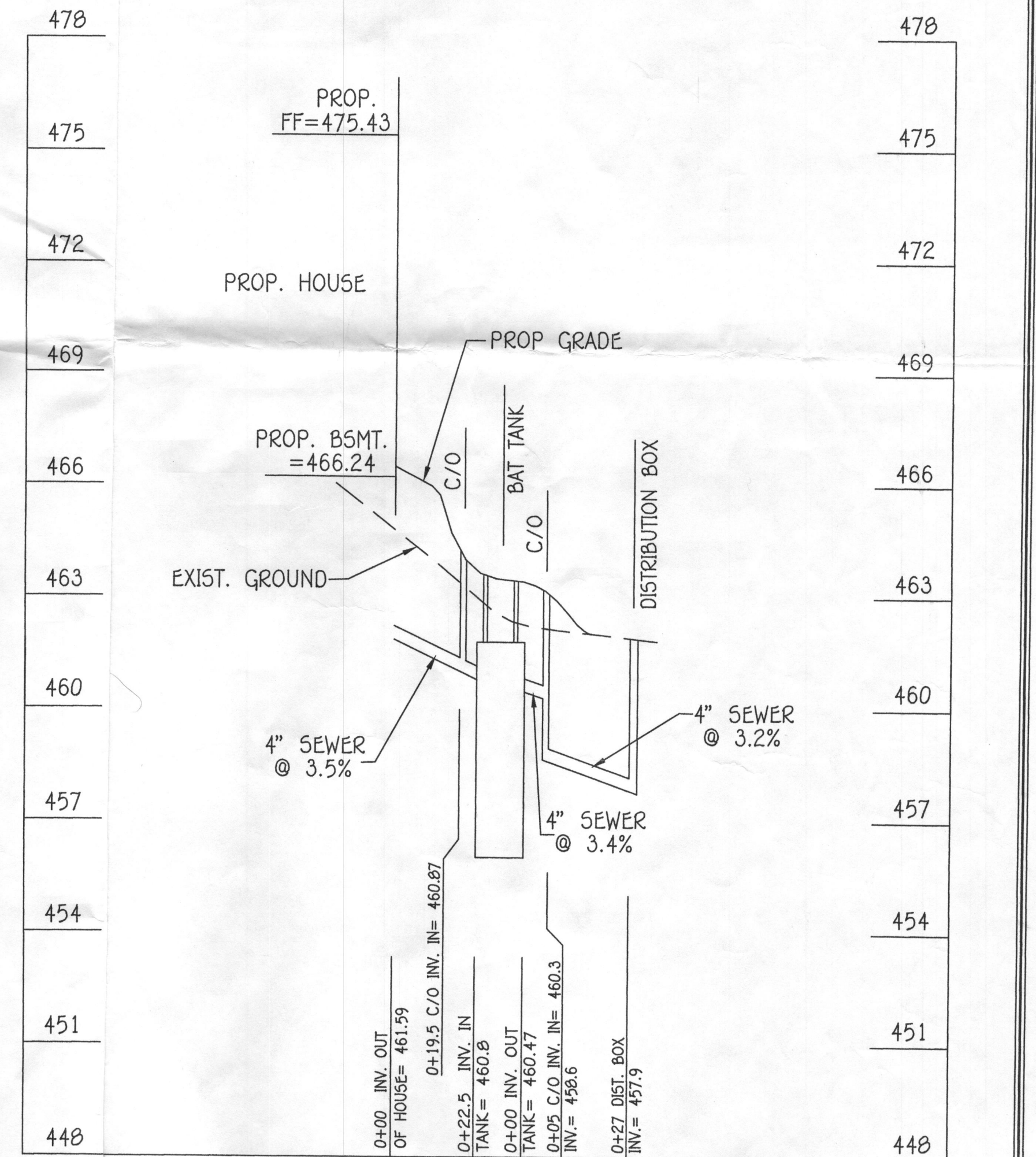
3. TRENCH DESIGN (INITIAL SYSTEM):
(5 BDRM X 150 GPD/BDRM = 750 GPD)
750 / 0.8 APP. RATE = 937.5 SF
USE 3' WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EGDES.
937.5 SF / 3' WIDTH = 312.5 L.F. X 0.5 = 156.3 L.F. MIN. TRENCH
USE 2- 78.2' LONG TRENCHES = 156.4 L.F.

4. TRENCH DESIGN (1ST REPLACEMENT SYSTEM):
(5 BDRM X 150 GPD/BDRM = 750 GPD)
750 / 0.8 APP. RATE = 937.5 SF
USE 3' WIDE TRENCH AND 10' MIN. SPACING BETWEEN TRENCH EGDES.
937.5 SF / 3' WIDTH = 312.5 L.F. X 0.5 = 156.3 L.F. MIN. TRENCH
USE 2- 78.2' LONG TRENCHES = 156.4 L.F.

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 461.8
INV. IN = 457.9
BOTTOM TRENCH = 45.8

TRENCH 2:
EX. GROUND ABOVE = 460.9
INV. IN = 456.9
BOTTOM TRENCH = 45.9



WELL CERTIFICATION NOTE

THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO #94-3841, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

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. 20748, EXPIRATION DATE: 02/22/2017.

Alfredo M. Vitucci
ALDO M. VITUCCI
DATE: 4/20/16

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-1099

STATE OF MARYLAND
ALDO MICHAEL VITUCCI
No. 20748
PROFESSIONAL ENGINEER

PLAN
SCALE: 1" = 30'

OWNER
ROXBURY FARMS LLC, C/O
COLUMBIA DEVELOPERS LLC
6420 AUTUMN SKY WAY
COLUMBIA, MARYLAND 21044
410-730-3940

BUILDER/DEVELOPER
COLUMBIA BUILDERS
P.O. BOX 999
COLUMBIA MARYLAND 21044
410-730-3940

SCALE: 1" = 30'

BAT INSTALLATION SITE PLAN
RIVERCREST
LOT 7
15428 RIVERCREST COURT

ZONED: RC-DEO
TAX MAP NO.: 21
4TH ELECTION DISTRICT
SCALE: 1" = 30'

PLAT NO.: 18208 THRU 18210
GRID NO.: 20
PARCEL NO.: 84
HOWARD COUNTY, MARYLAND
DATE: APRIL 20, 2016

SHEET 1 OF 1