



Howard County
Health Department

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: 5/7/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 546351-A

INSTALLATION

APPROVAL DATE: 3-12-15 *(KMW)*

**PERMIT
CONSTRUCTION**

A _____

PROPERTY ADDRESS: 12401 Stella Drive

SUBDIVISION: Fulton Manor II

LOT: 6

TAX ID: _____

CONTRACTOR: Freedom Septic Clean Inc.

EMAIL: _____

CONTRACTOR ADDRESS: 2809 Liberty Road, Eldersburg, MD 21784

PHONE: 410-795-2947

PROPERTY OWNER: Trinity Quality Homes

EMAIL: _____

OWNER ADDRESS: 3675 Park Avenue Ste 301, Ellicott City, MD 21043

PHONE: 443-324-9806

BAT UNIT MODEL: Norweco

BAT UNIT SIZE: 750GPD

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: 5

HOUSE SQ. FT. _____

APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED ☒

LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 189'</u>	INLET DEPTH: <u>SEE BAT PLAN 4.5'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 2'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 8.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN 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 <u>3x63' Trenches</u>	

ISSUED BY: Jeff Williams

ISSUE DATE: 5/28/14

EXPIRATION DATE: 5/28/15

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 DOWNGRADE FROM ANY WATER WELL

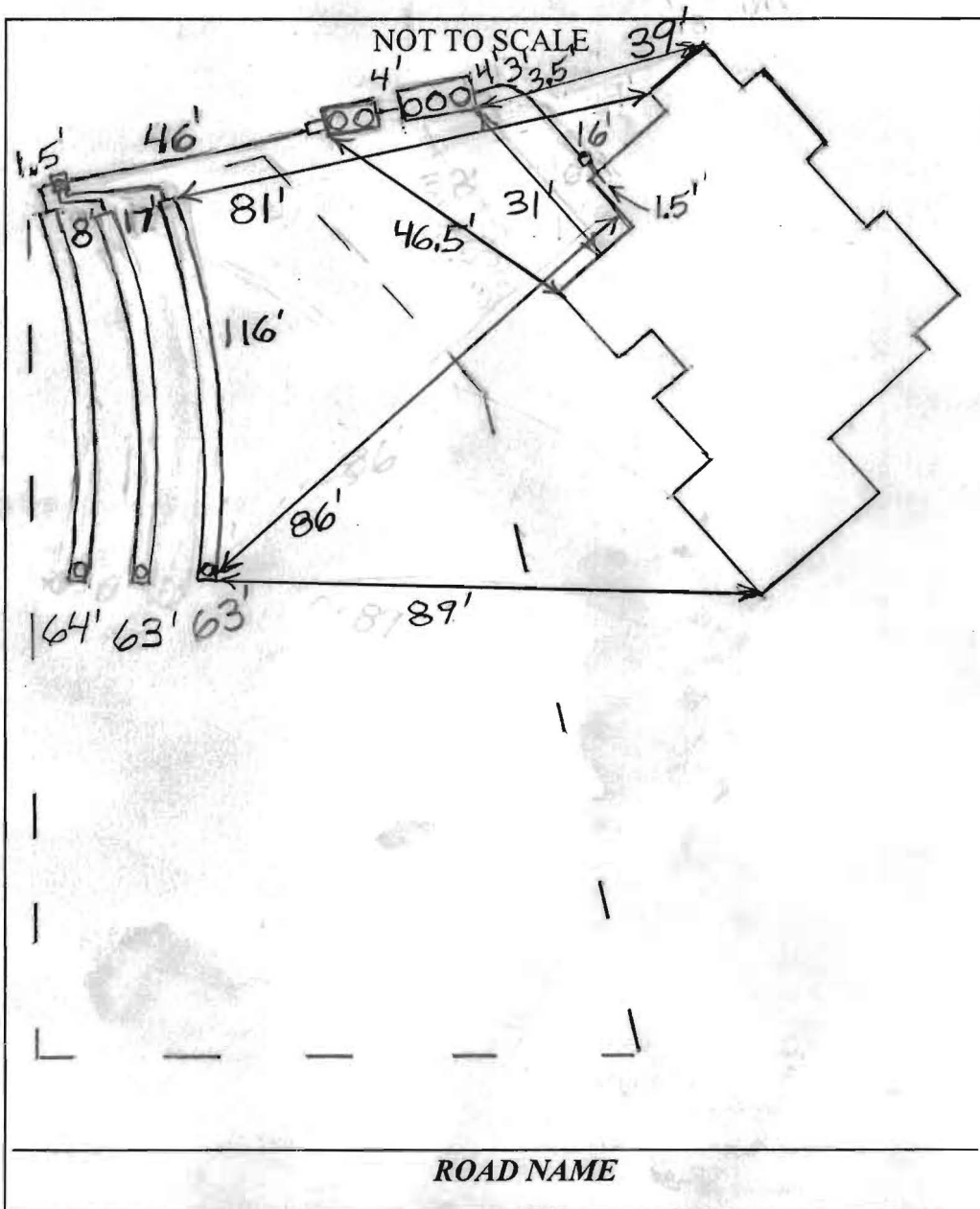
NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

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.



TRENCH/DRAINFIELD DATA
 WIDTH INLET BOTTOM
 2' 4'-4.5' 8.5'
 NUMBER OF TRENCHES 3
 TOTAL LENGTH 190'
 ABSORPTION AREA 570+Sidewall
 DISTRIBUTION BOX LEVEL Yes
 DISTRIBUTION BOX BAFFLE Elbow
 DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA
 SEPTIC TANK 1 LEVEL Yes
 MANUFACTURER Norweco
 CAPACITY 1300 GAL
 SEAM LOC Top
 TANK LID DEPTH 2.5'-2.5'
 BAFFLES No
 BAFFLE FILTER No
 MANHOLE LOC Front, Middle+Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 SLOTTED N/A
 DATE ON LID Dry
 PUMP/SEPTIC TANK LEVEL Yes
 MANUFACTURER Babylon
 CAPACITY 1250 GAL
 SEAM LOC Top
 TANK LID DEPTH 2.5'-3.5'
 BAFFLES Front
 BAFFLE FILTER No
 MANHOLE LOC Front+Rear
 6" PORT LOC None
 WATERTIGHT TEST No
 SLOTTED N/A
 DATE ON LID 6/25/2014

PRE-CONSTRUCTION:

7/23/2014 O.K. to install septic tank at staked location. BB 7/24/2014 Trench layout done. BB

INSTALLATION:

7/24/2014 Tank set BB 7/25/2014 Pump tank and dist. box installed. BB 7/28/2014 Bottom trench dug but not stored. Top 2 trenches done. Have installer O.K. to cover when finished. Need pump and alarm test and approval letter from Norweco representative. BB 7/31/2014 Received approval letter from Norweco rep. Need pump and alarm test. BB 3/12/15 Pump/Alarm OK. Alarm tested 'OK'. Pumping OK.

FINAL INSPECTOR

K. Way

DATE OF APPROVAL

3-12-15

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 12401 Stella Dr., Fulton, MD 20759 July 24, 2014 was installed according to the manufacture's specifications.

Installer: Bruce Bopst



MATTHEW GECKLE

Vice-President

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, April 10, 2014 12:18 PM
To: 'Rob Vogel'
Subject: fulton manor II lot 6

I have reviewed the BAT plan for FMII lot 6. We need to see details of the pump tank for this lot. This will include tank size, cross-section detail with pump elevations showing dose amount and elevation of alarm float such that at least 600g of emergency storage exists between it and the inlet invert, pump curve with head calculations and dose rate. I would suggest a dose around 100g and a pump with not too high a flow rate (around 50gpm is fine). Thanks.

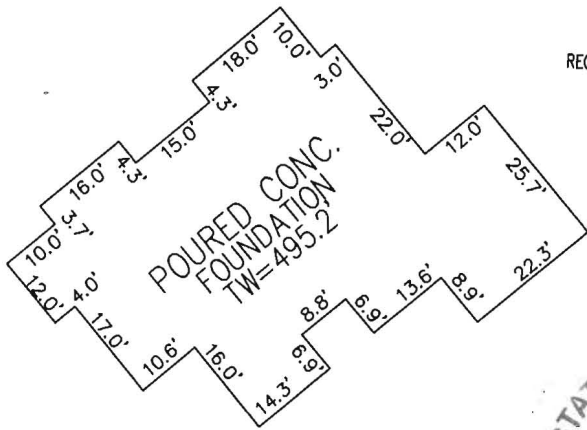
Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

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NORTH

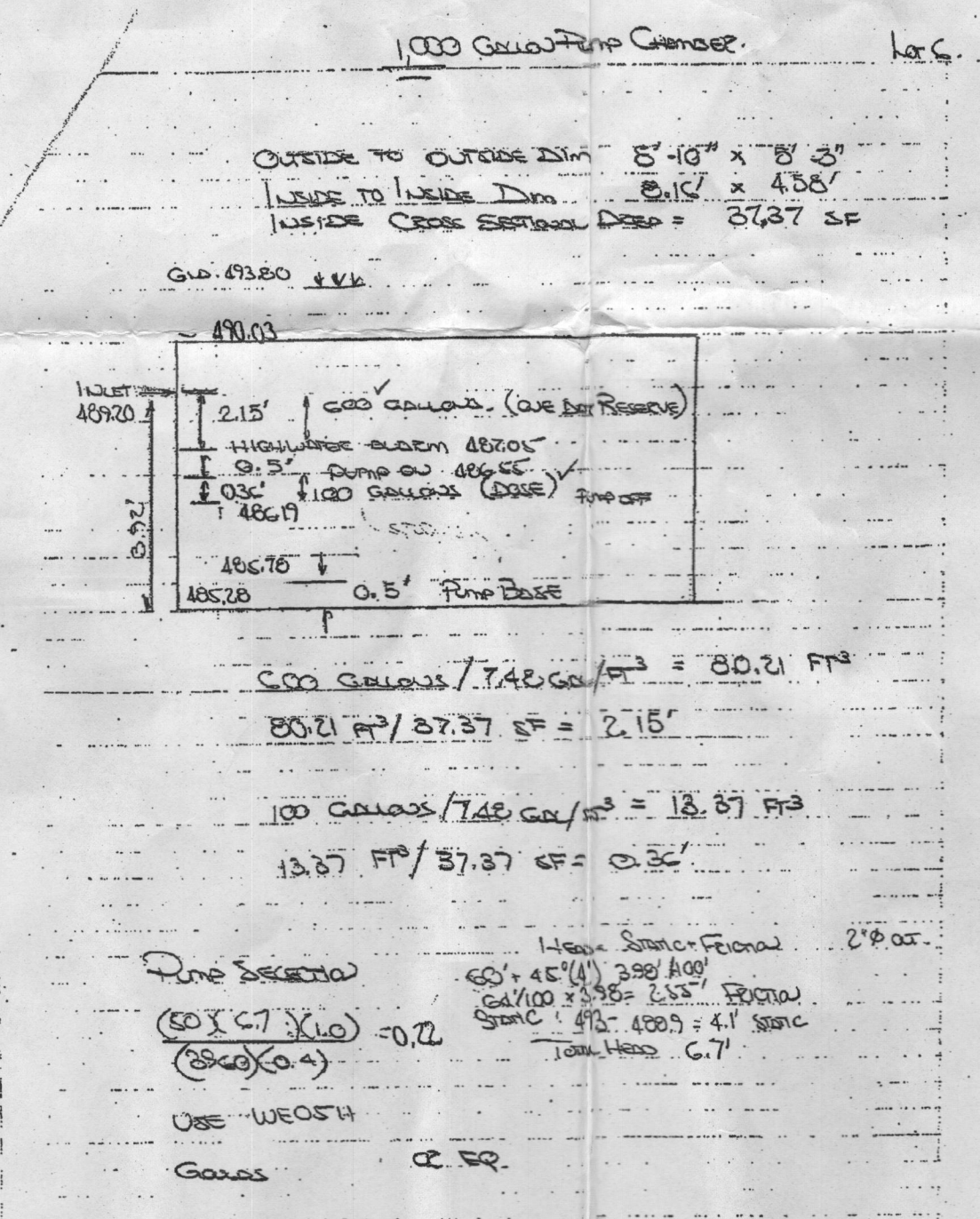
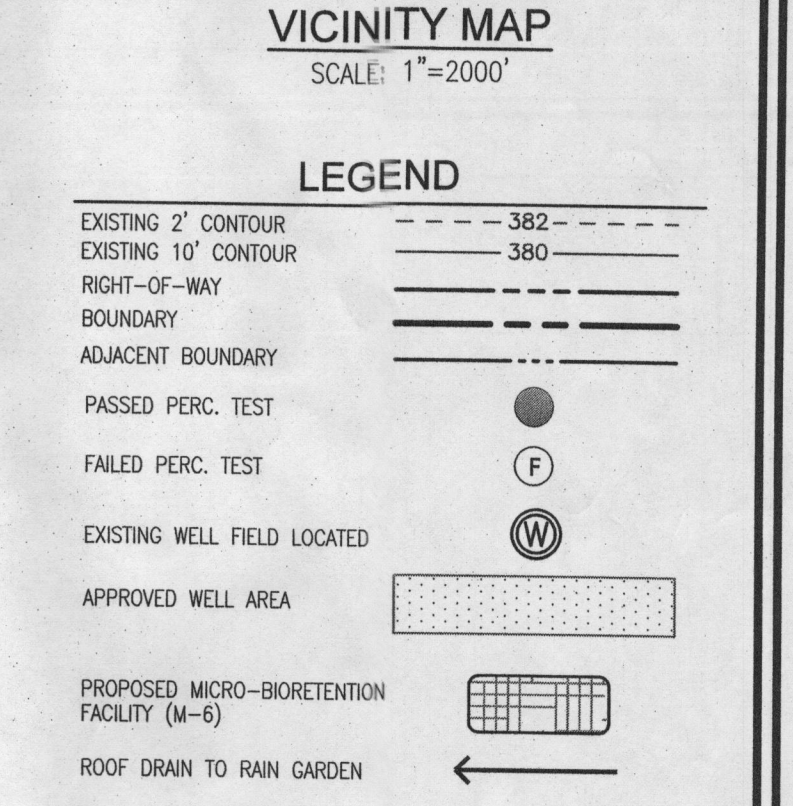
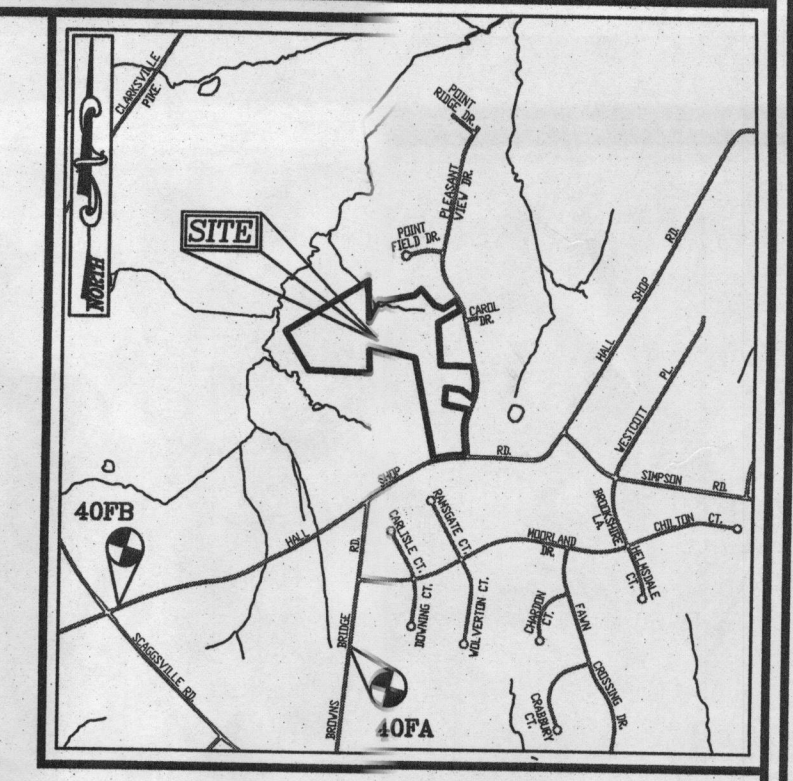
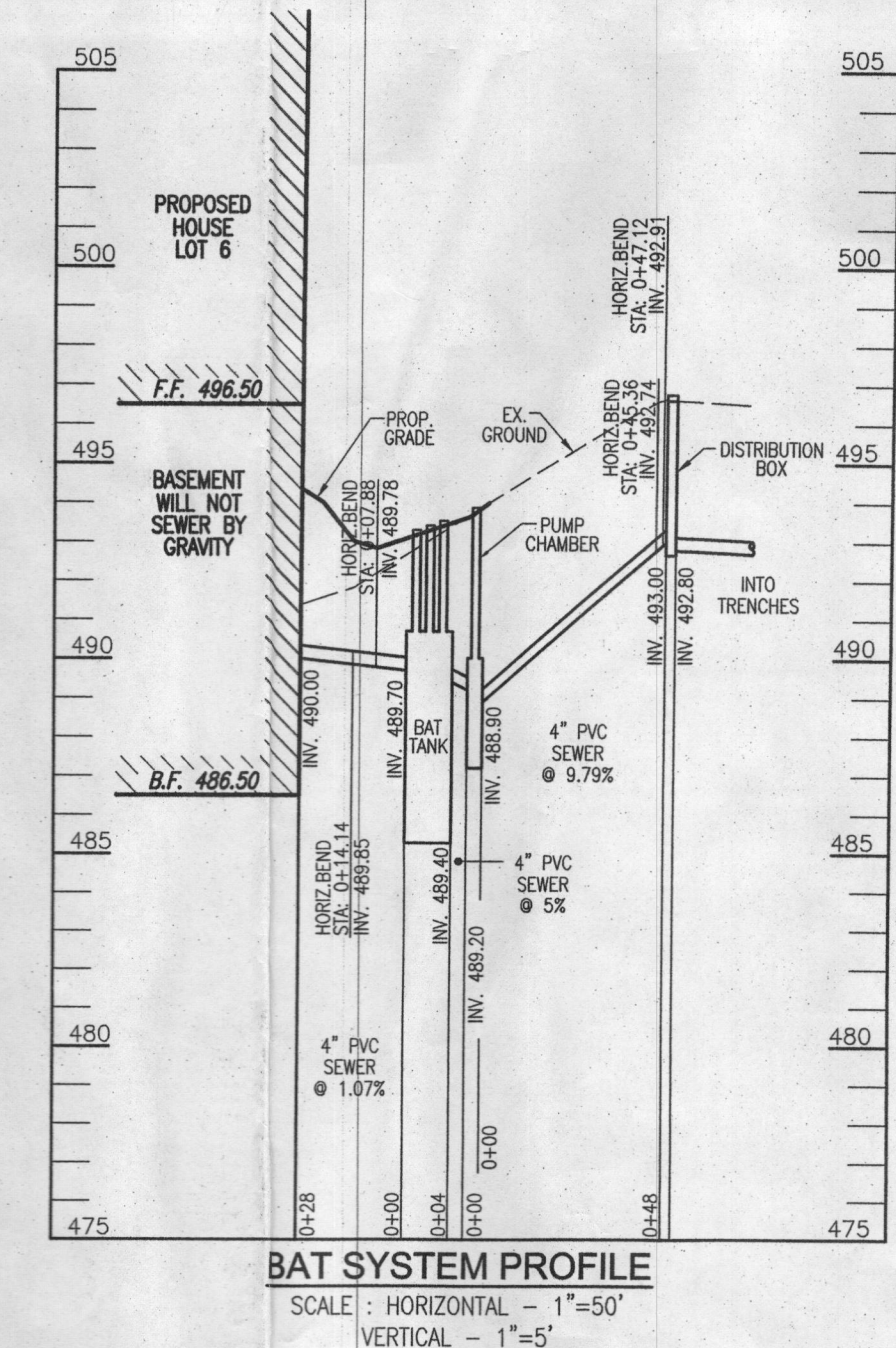
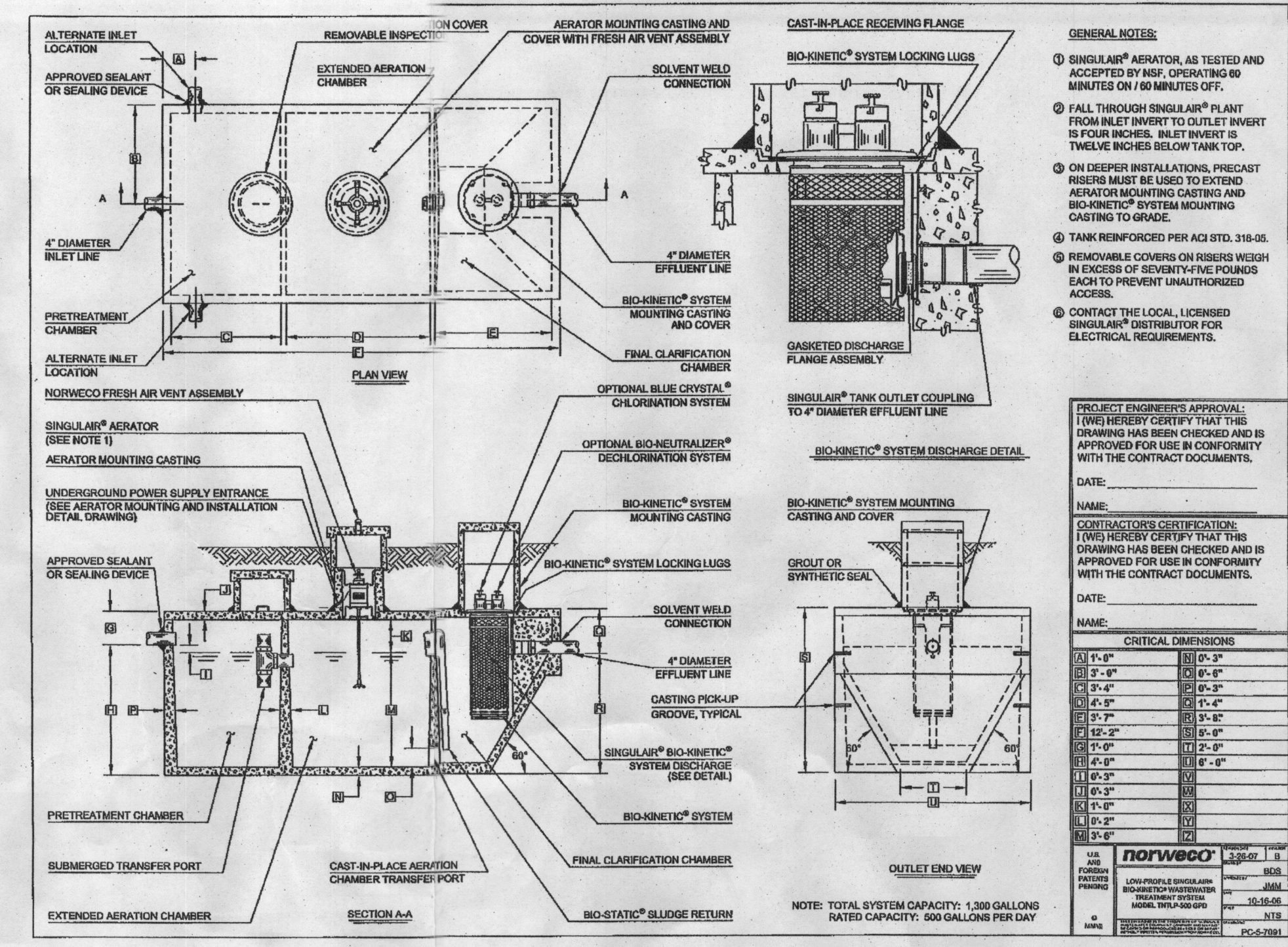
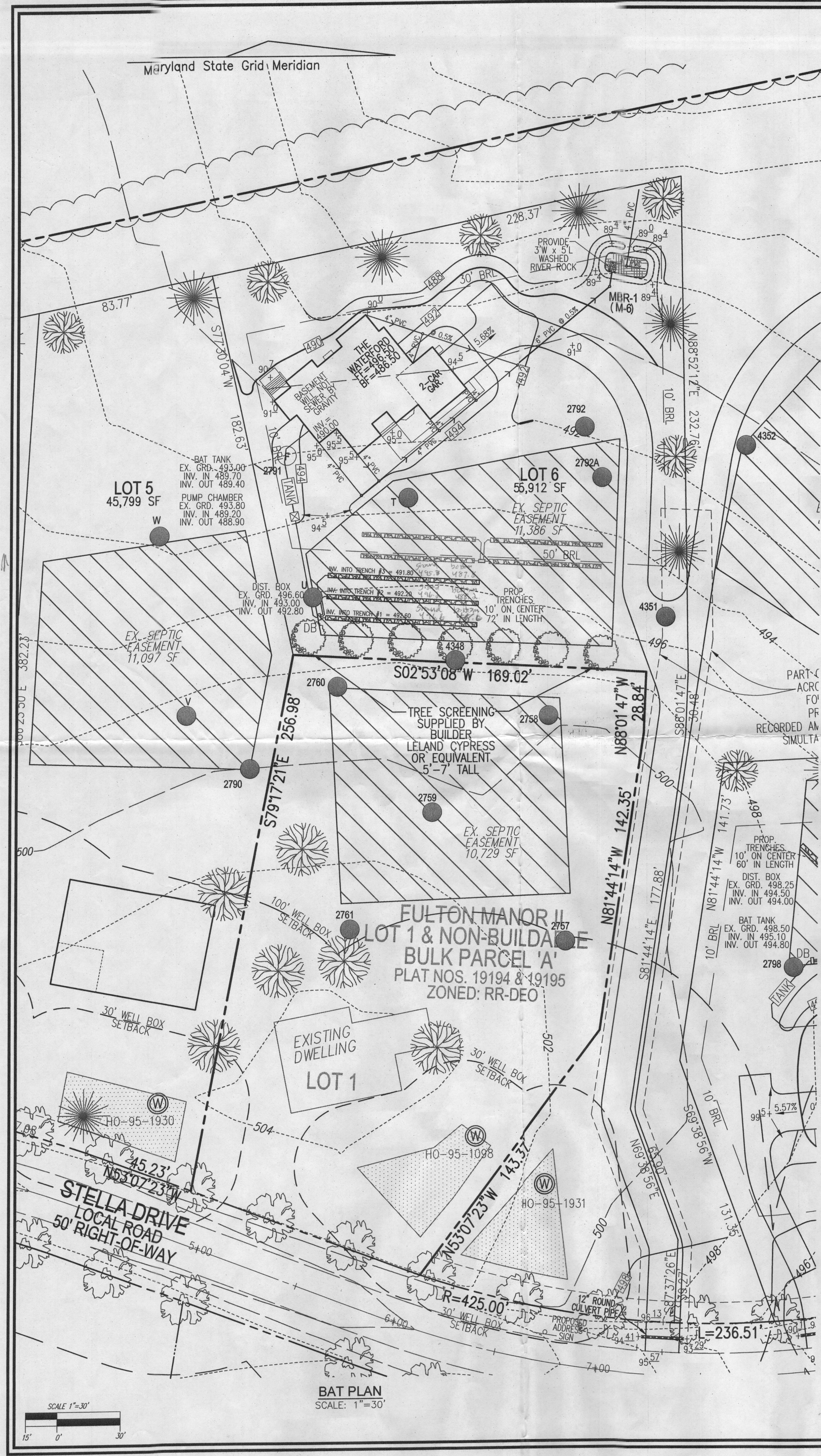


I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE,
INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE
LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS
EXCEPT AS SHOWN.

5.28.14

SCALE 1" = 60'	DATE 05/28/14
DRAWN BY R.E.D.	CHECKED BY T.M.H.
PLAT NUMBER 22479-22481	JOB NUMBER 13-33.00

WALL CHECK DRAWING ✓
12401 STELLA DRIVE
LOT 6
FULTON MANOR II
PLAT NO. 22479
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



ITT

GOULDS PUMPS
Wastewater

APPLICATIONS
Specifically designed for the following uses:
• Hospitals, Industry, Municipalities, Schools, Hospitals, Industry, Effluent Systems

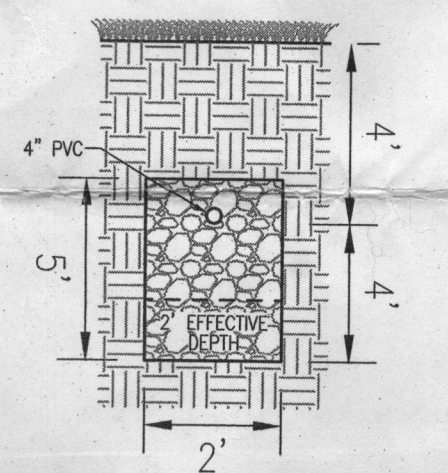
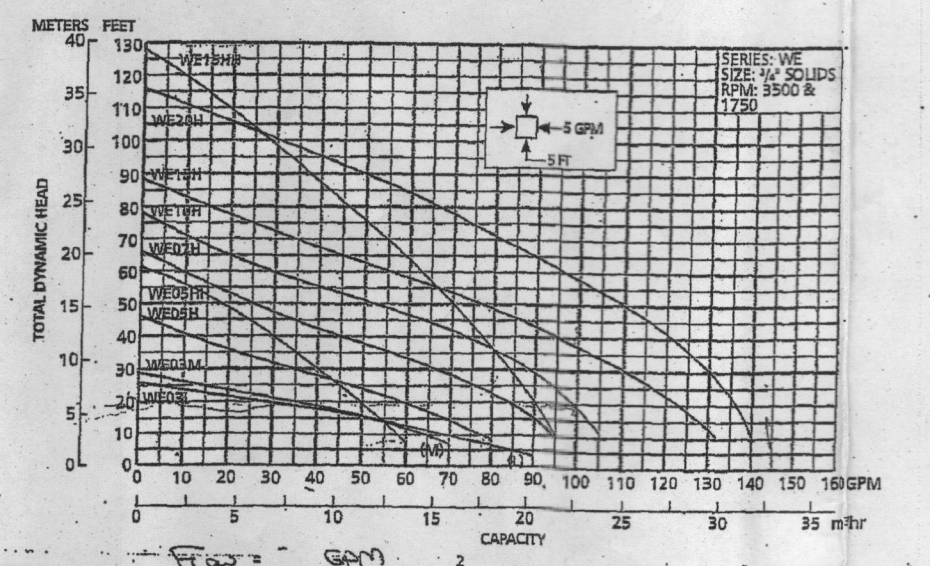
SPECIFICATIONS
Pump
• Solids handling capabilities: 1/2" maximum.
• Discharge size: 2" NPT.
• Capacities: up to 140 GPM.
• Total head: up to 128 feet TDH.
• Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
• See order numbers on name plate for specific HP, voltage, phase and RPM's available.

MOTORS
• Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
• Class B insulation on 1/4" - 1 1/2" HP models.
• Class F insulation on 2 HP models.

Single phase 50 Hz:
• Capacitor start motors for maximum starting torque.
• Built-in overload with automatic reset.
• SITOR or SITOR severe duty oil and water resistant power cords.

Three phase 60 Hz:
• Three phase 60 Hz.
• Class 10 overload protection must be provided in separately ordered starter unit.
• SITOR power cords all have bare lead cord ends.
• Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended loading limits can be operated continuously without damage when fully submerged.
• Bearings: Upper and lower heavy duty ball bearing construction.
• Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor and provides secondary moisture barrier in case of outer jacket damage and to prevent of winding. Standard lead is 20'. Optional lengths are available.
• O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS
Howard County Health Department
Bureau of Environmental Health



TRENCH DETAIL
NOT TO SCALE

RECEIVED
APR 28 2014
HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

OWNER/DEVELOPER
TRINITY HOMES
3675 PARK AVENUE, SUITE 301
ELLICOTT CITY, MARYLAND 21043
(410) 480-0023

SITE PLAN FOR BAT INSTALLATION

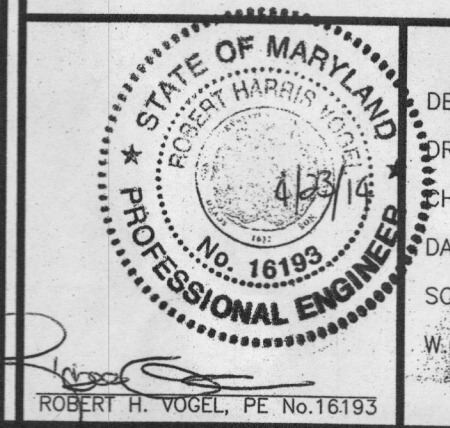
FULTON MANOR II - LOT 6

12401 STELLA DRIVE
FULTON, MD 20759
B14000878

TAX MAP: 40 BLOCK: 6
5TH ELECTION DISTRICT

PARCEL: 205 & 94
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

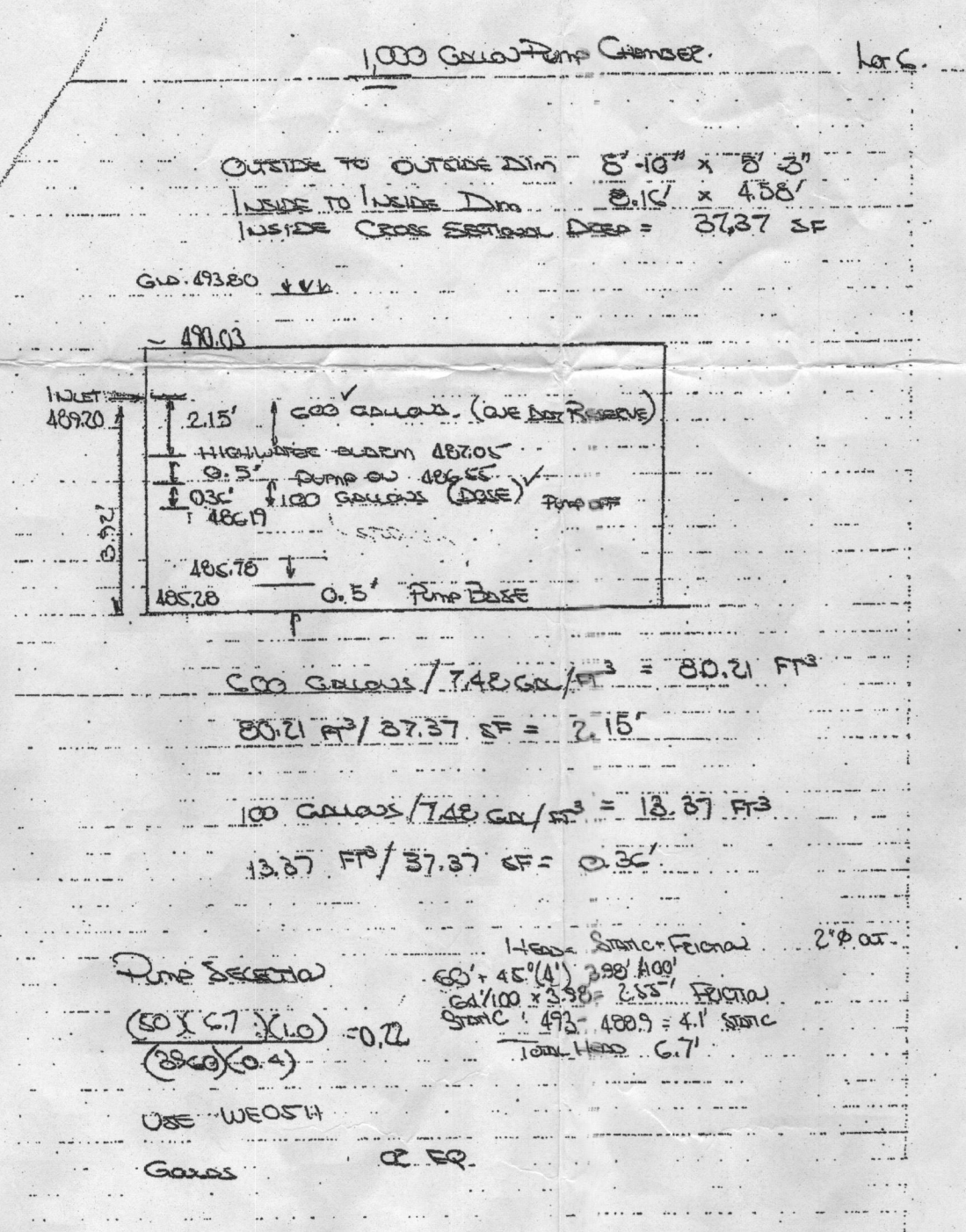
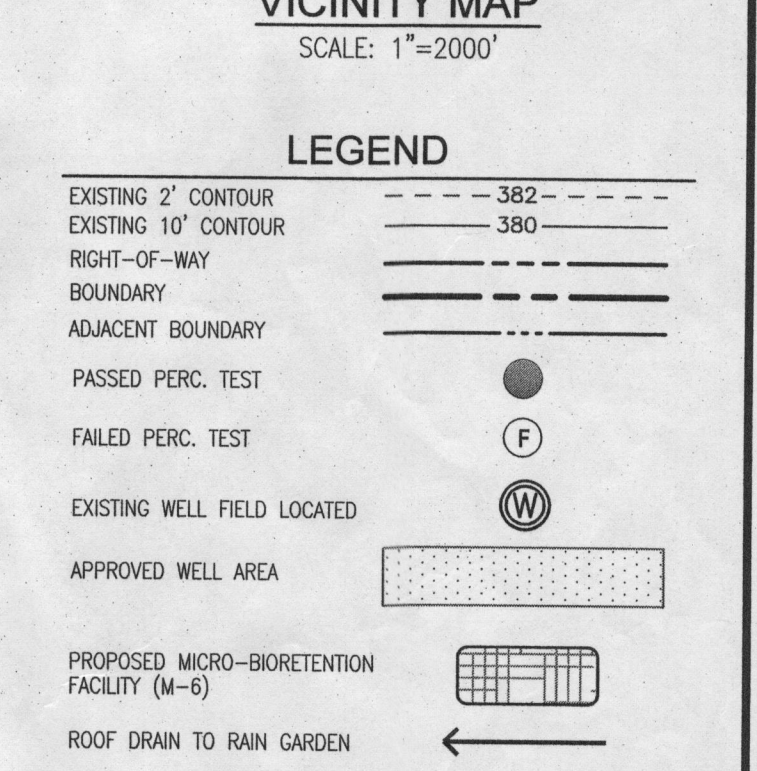
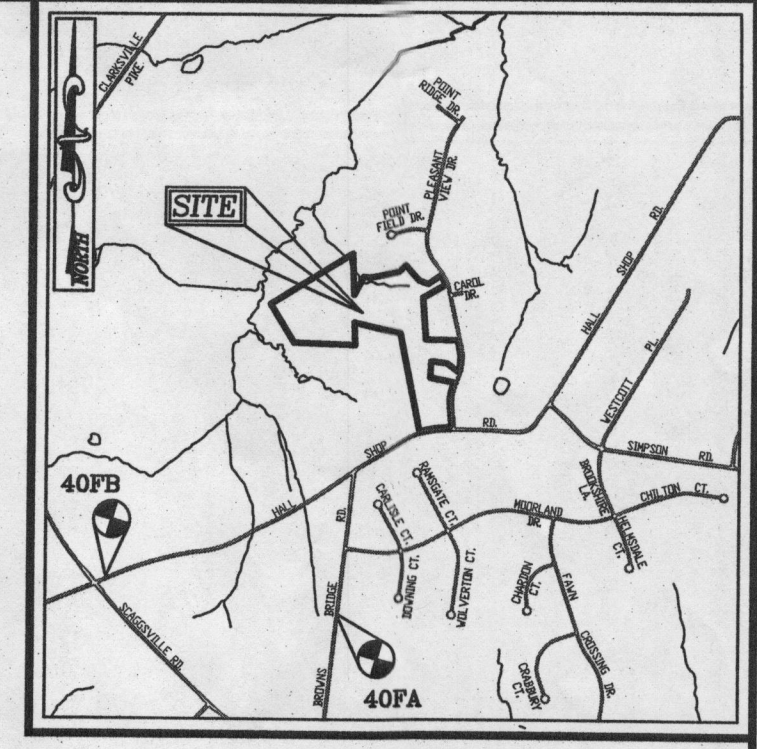
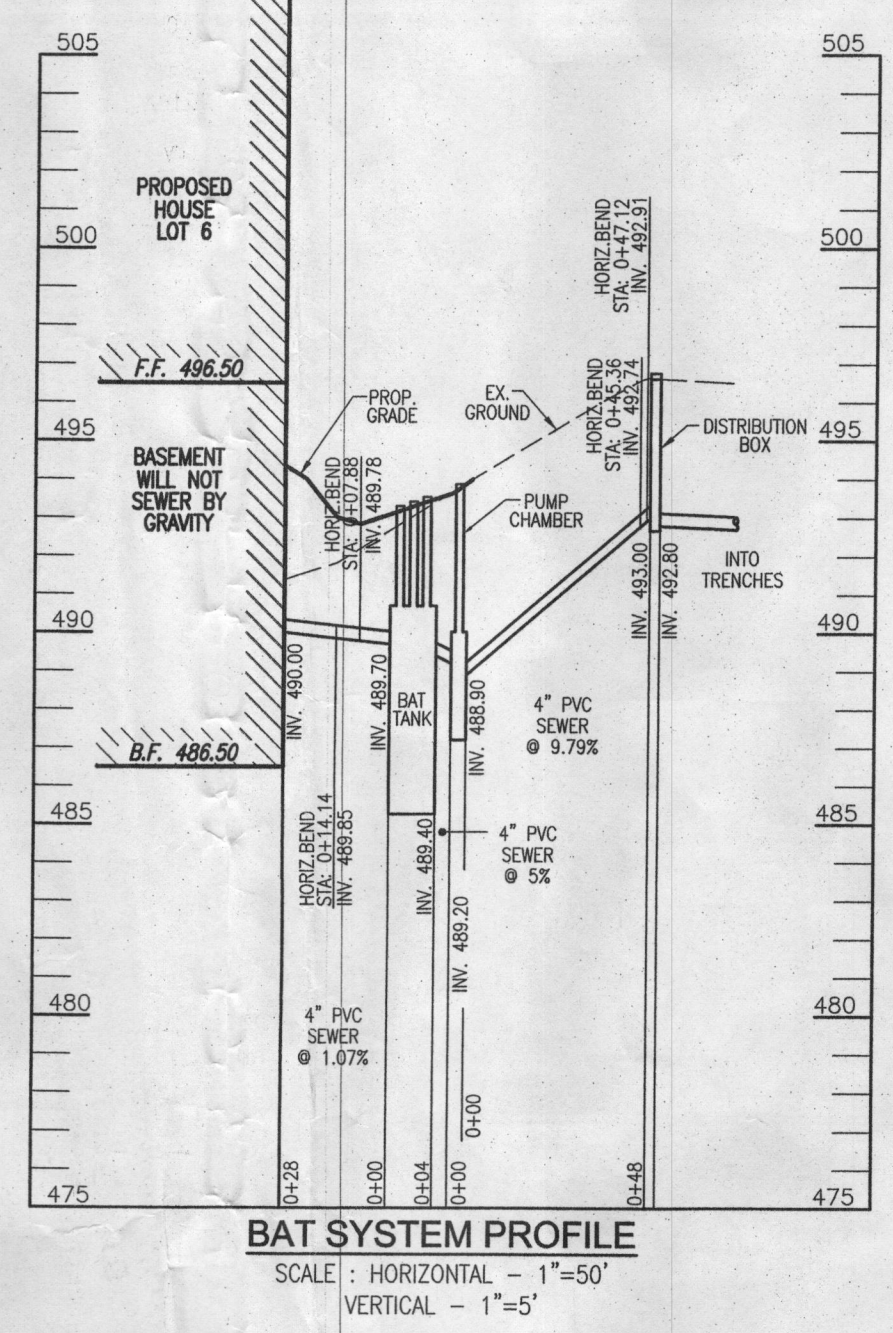
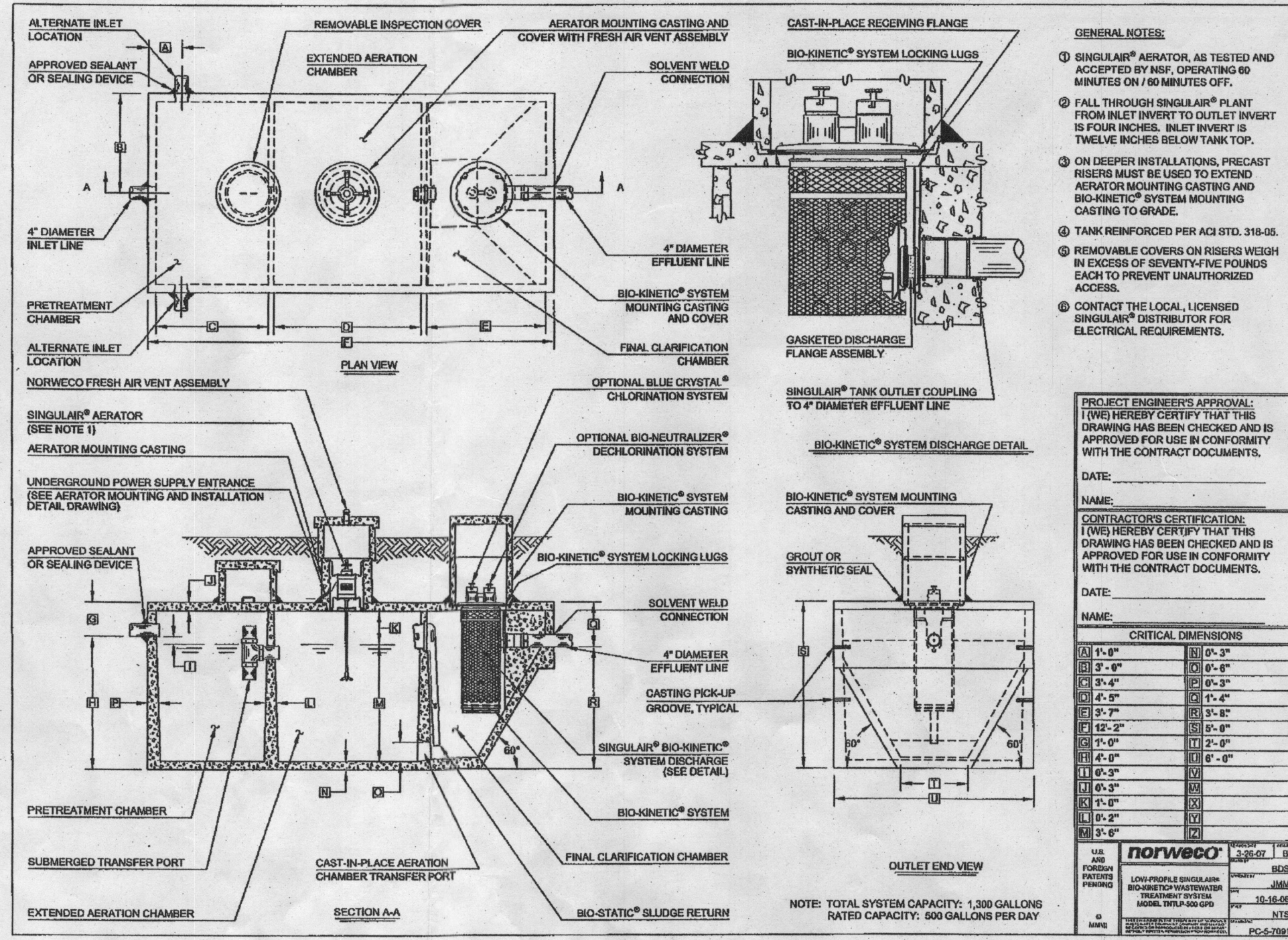
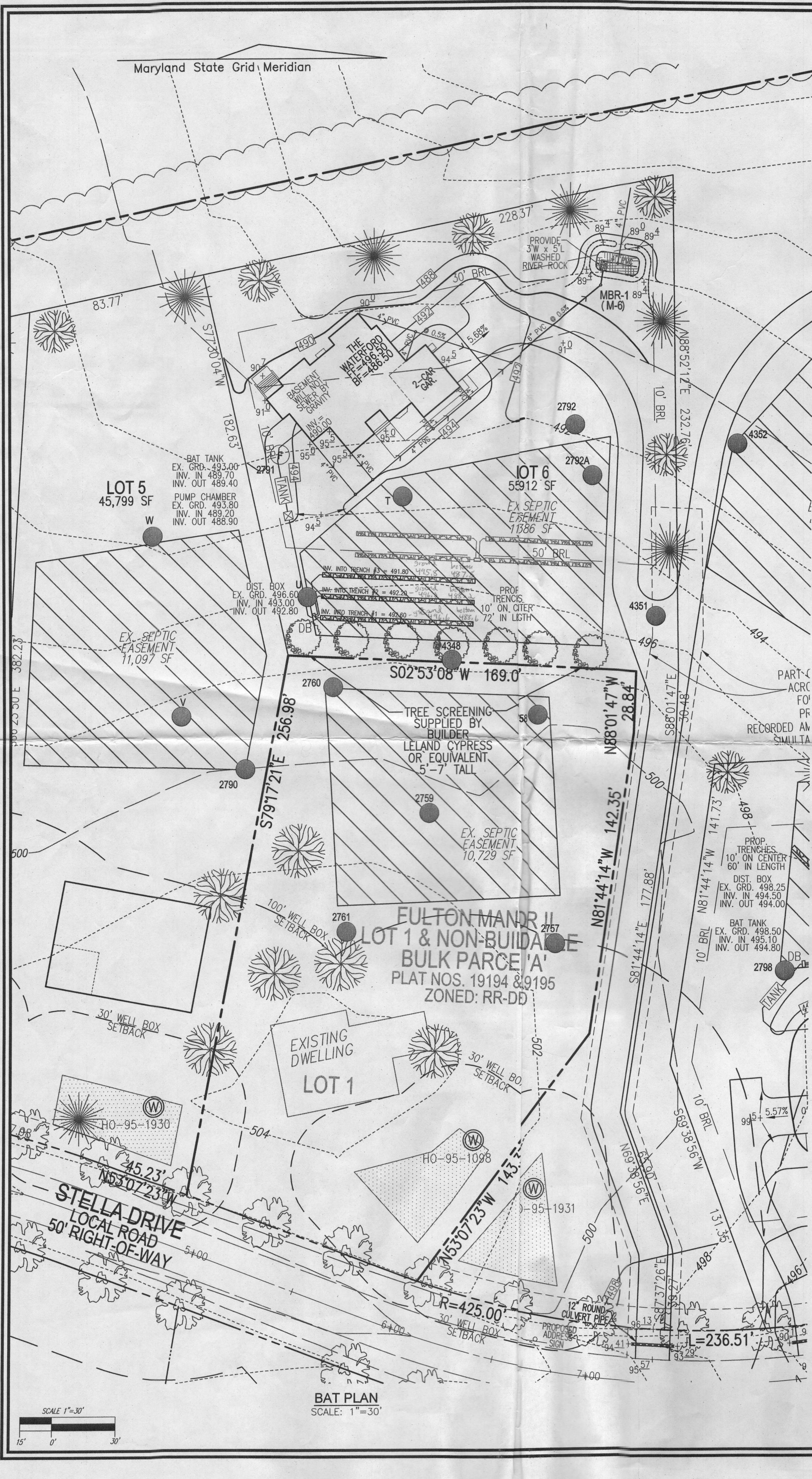
ROBERT H. VOGEL
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLICOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961



DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: APRIL 2014
SCALE: 1"=30'
W.D. NO.: 13-33
1 SHEET OF 1

GENERAL 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. NO BLOWER IS REQUIRED. THE NORWECO WASTEWATER TREATMENT SYSTEM HAS AN AERATOR MOUNTED IN THE TANK.
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.



ITT

GOULDS PUMPS
Wastewater

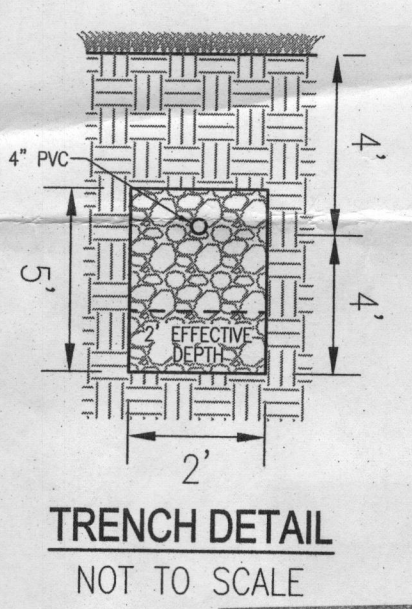
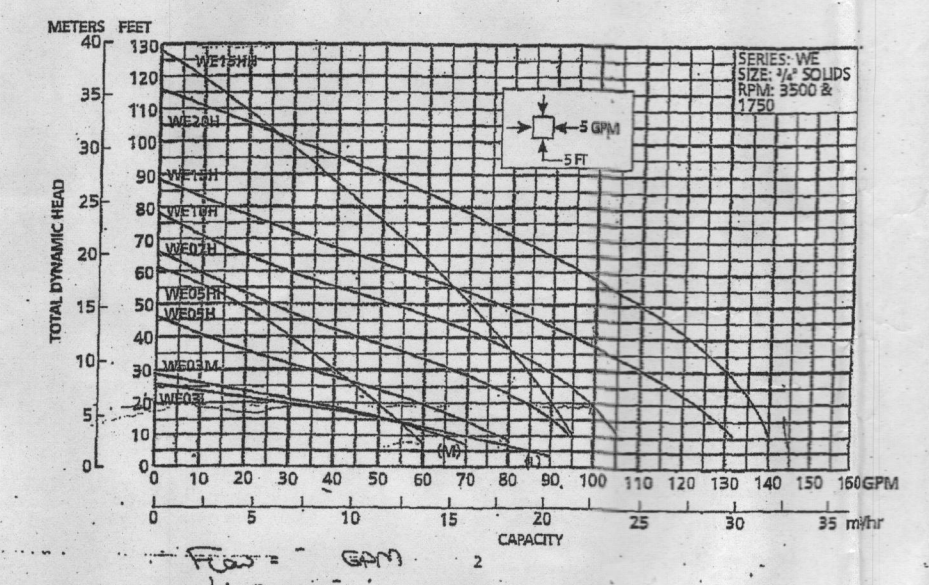
APPLICATIONS
Specifically designed for the following uses:
• Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industries, Effluent Systems.

SPECIFICATIONS
Pump
• Solid handling capabilities: 1/4" maximum.
• Discharge size: 2" NPT.
• Capacities: up to 140 GPM.
• Total head: up to 125 feet TDH.
• Temperature: 104°F (40°C) continuous, 140°F (50°C) intermittent.
• See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS
• Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
• Class B insulation on 1/4" - 1 1/2 HP models.
• Class F insulation on 2 HP models.

Single phase 60 Hz:
• Capacitor start motors for maximum starting torque.
• Built-in overload with automatic reset.
• STOW or STOWV severe duty oil and water resistant power cords.

AGENCY LISTINGS
Listed in the 1997 and 2000 NEC 250.178 (Grounding) and 250.179 (Bonding) by the National Electrical Manufacturers Association (NEMA) and the International Brotherhood of Electrical Workers (IBEW).



RECEIVED
APR 23 2014
HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

OWNER/DEVELOPER
TRINITY HOMES
3675 PARK AVENUE, SUITE 301
ELLICOTT CITY, MARYLAND 21043
(410) 480-0023

Approved Septic System Plan
Howard County Health Department
Signature: [Signature] Date: 4/25/14

SITE PLAN FOR BAT INSTALLATION

FULTON MANOR II - LOT 6
12401 STELLA DRIVE
FULTON, MD 20759
B14000878

TAX MAP: 40 BLOCK: 6
5TH ELECTION DISTRICT

PARCEL: 205 & 94
ZONED: RR-DEO
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLICOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2014.

DESIGN BY: RHV
DRAWN BY: JMR
CHECKED BY: RHV
DATE: APRIL 2014
SCALE: 1"=30'
W.D. NO.: 13-33

1 SHEET OF 1

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BE A 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.