

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: 12/17/12 **ONSITE SEWAGE DISPOSAL SYSTEM** P 544409-L

**PERMIT  
CONSTRUCTION**

INSTALLATION APPROVAL DATE: 1/23/14 (KW) A \_\_\_\_\_

PROPERTY ADDRESS: 4075 Candle Light Drive

SUBDIVISION: Castleberry at Ten Oaks LOT: 22 TAX ID: 05-447240

CONTRACTOR: Trinity Quality Homes EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 3675 Park Avenue Ste 301, Ellicott City, MD 21043 PHONE: 410-480-0023

PROPERTY OWNER: Trinity Quality Homes EMAIL: \_\_\_\_\_

OWNER ADDRESS: 3675 Park Avenue Ste 301, Ellicott City, MD 21043 PHONE: 443-324-9806

SEPTIC TANK SIZE (GALLONS): 2000

PUMP CHAMBER CAPACITY (GALLONS): ~~2000~~ 1250 PUMP SIZE: \_\_\_\_\_

NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. 6,325 APPLICATION RATE: 1.2

DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

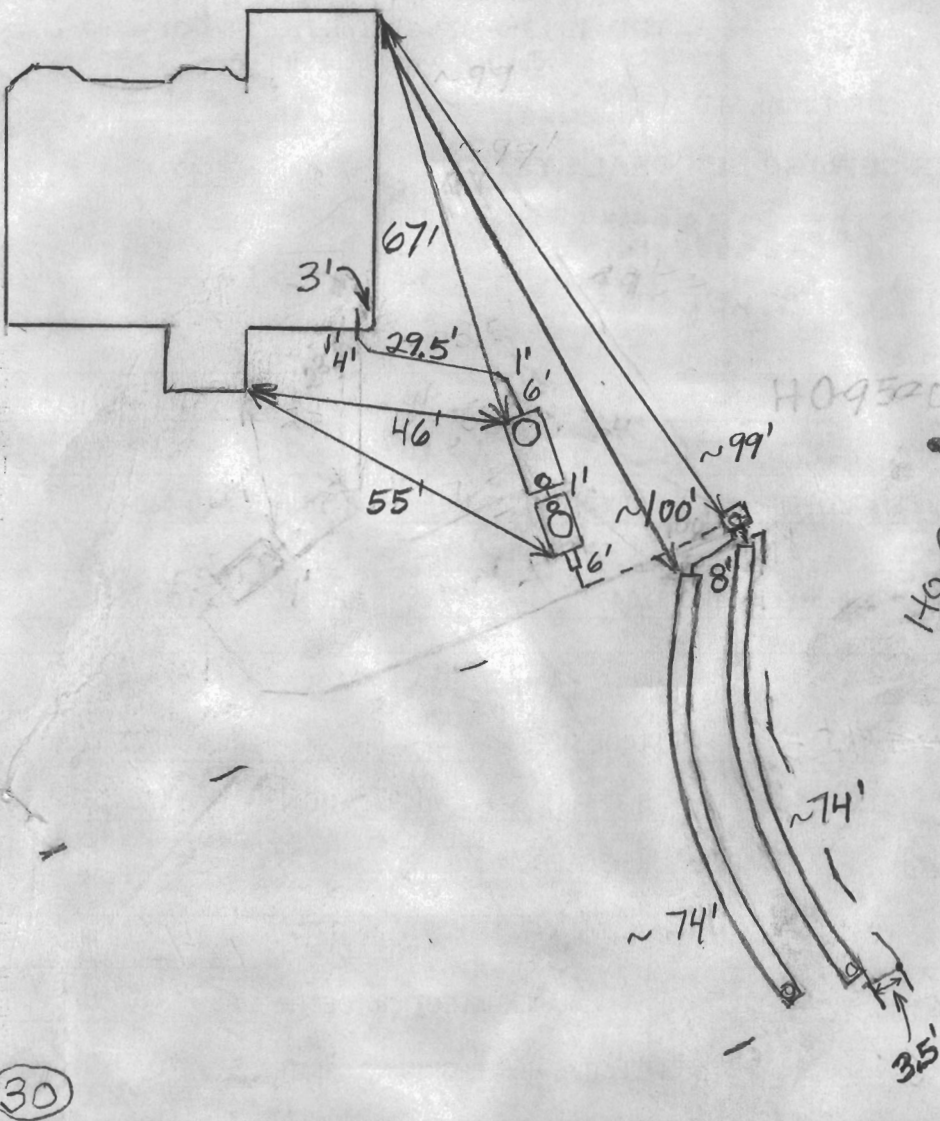
TRENCHES:	LINEAR FEET REQUIRED: <u>142'</u>	INLET DEPTH: <u>3 4'</u>
	TRENCH WIDTH: <u>2</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>6'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set septic tank and pump tank per plan. Set distribution box per plan. Install 2 x 71' trenches on contour in upper SDA.  <u>2 x 75' Trenches</u>	

ISSUED BY: Robert Bricker ISSUE DATE: \_\_\_\_\_ EXPIRATION DATE: 12/17/13

- 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

**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



ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
2'	3.5'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		148'
ABSORPTION AREA		296
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Elbow
DISTRIBUTION BOX PORT		Yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-1.5'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	No
SLOTTED	Yes
DATE ON LID	Dry
PUMP/SEPTIC TANK LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	1250 GAL
SEAM LOC	Top
TANK LID DEPTH	1.5'-3'
BAFFLES	Front
BAFFLE FILTER	No
MANHOLE LOC	Middle
6" PORT LOC	Front
WATERTIGHT TEST	No
SLOTTED	No
DATE ON LID	Dry

**PRE-CONSTRUCTION:**

8/26/2013 I install two 75' trenches on contour across the top of the septic easement. Put the tanks near where shown on the B.P. plans (BB)

**INSTALLATION:**

8/27/2013 System installed (BB)

9/3/2013 System finished except for pump and alarm test (BB)

10/25/2013 Have been informed by builder that homeowners want to install pool. Tanks will have to be moved. New tanks installed at locations above. Need house connection and baffles/risers (BB)

10/28/2013 New tanks are installed. Need pump and alarm test before final approval (BB)

1/23/14 No one on-site for P/A test. (KW)

1/23/14 (pm) Phone call w/ contractor. On-site P/A test performed. Successful.

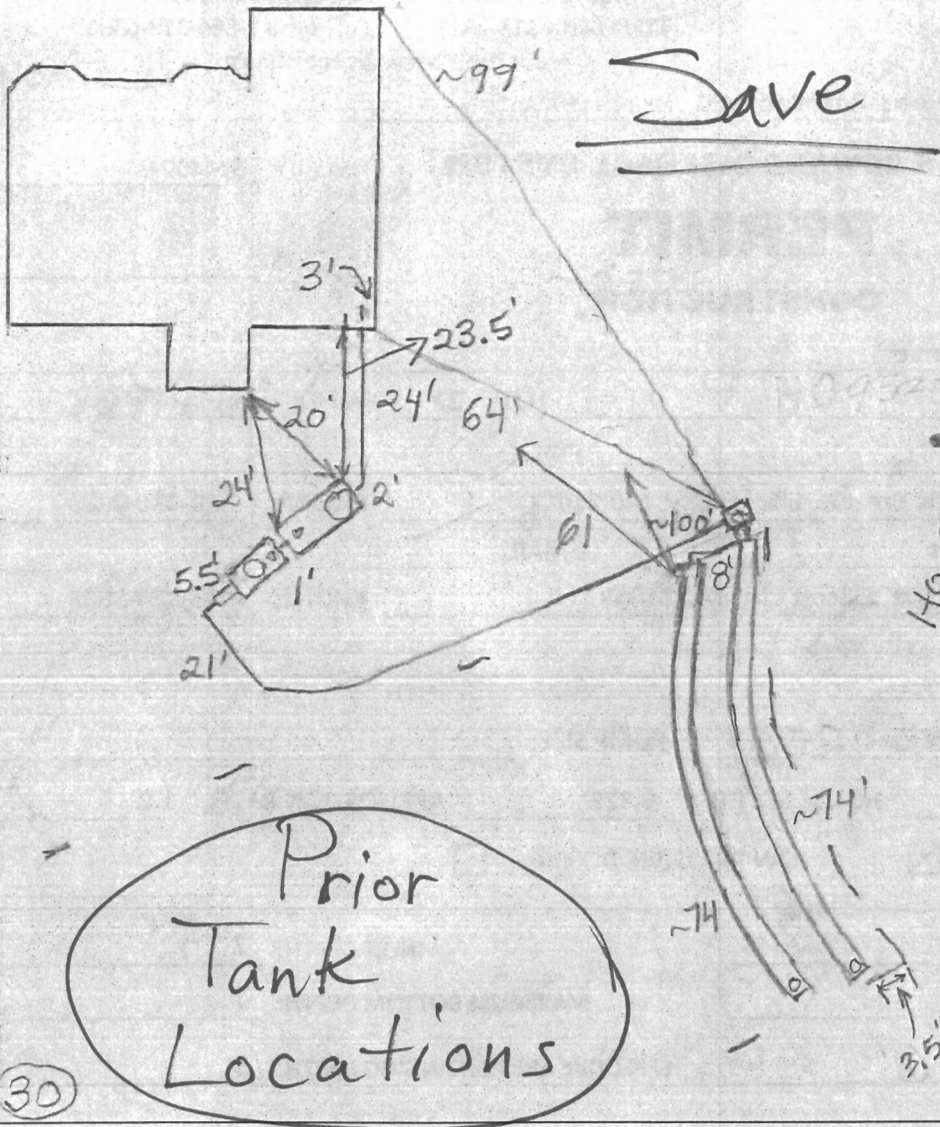
FINAL INSPECTOR

K. Wulf

DATE OF APPROVAL

1/23/14

NOT TO SCALE



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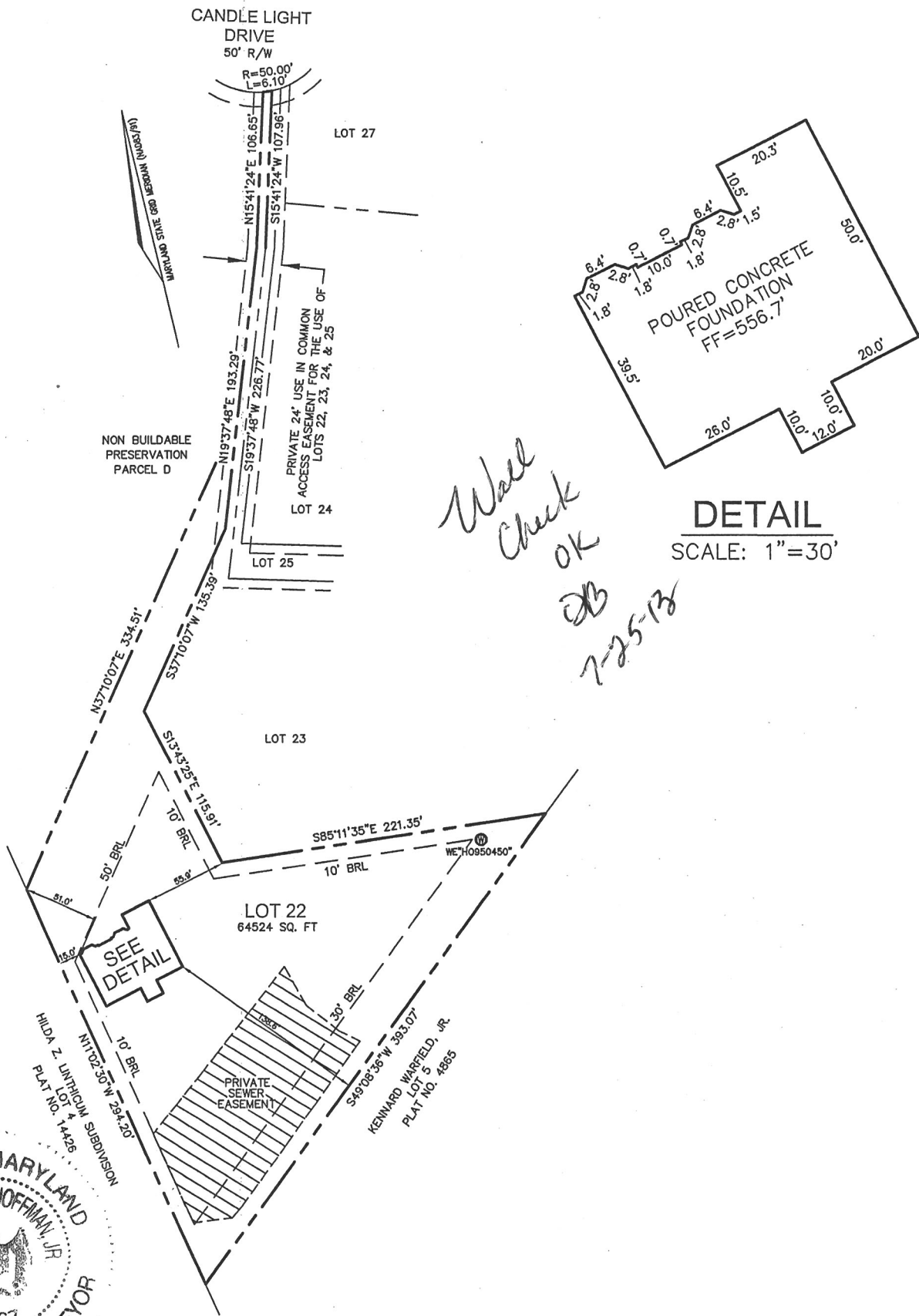
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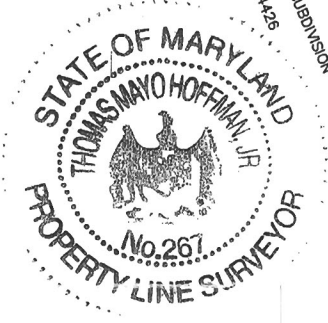
FINAL INSPECTOR \_\_\_\_\_ DATE OF APPROVAL \_\_\_\_\_

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



**DETAIL**  
SCALE: 1"=30'

*Wall Check OK*  
*DB*  
*7-25-13*



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.

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. 267, EXPIRATION DATE JULY 28, 2014.

*Thomas M. Hoffman*  
THOMAS M. HOFFMAN, JR., PROPERTY LINE SURVEYOR #267 DATE **7.19.13**

BUILDING PERMIT #12002170

SCALE 1"= 100'	DATE 07/17/13	ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS - SURVEYORS - PLANNERS 8407 MAIN STREET ELLCOTT CITY, MARYLAND 21043 TEL:410-461-7666 FAX:410-461-8961	WALL CHECK DRAWING #4075 CANDLE LIGHT DRIVE LOT 22 CASTLEBERRY AT TEN OAKS PLAT 19104 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN BY B.D.A.	CHECKED BY T.M.H.		
PLAT NUMBER 19096-19109	JOB NUMBER 00-85.00		

SEPTIC SPECIFICATIONS WORKSHEET

Subdivision Castleberry at Ten Oaks A \_\_\_\_\_  
 Street Name 4075 Candle Light Drive Lot Number 22  
 Average Percolation Rate (min./in.) 5 min./inch Application Rate (GPD/sq. ft.) 1.2  
 Number of Bedrooms 4 Design Flow (#BRx150) = 600  
 Square Footage (of House) 6325 Septic Tank Capacity (gal.) 2000  
 Sidewall Credit / % Reduction 2 feet 57% Total Length of Trench (ft.) 142

\*All Septic/Pump tanks must be top seamed unless otherwise approved by this agency. (142.5)

\*All Septic tanks must be compartmented unless otherwise approved by this agency.

Baffle/Filter Required? Yes No

TRENCH DIMENSIONS: Trench to 2 feet wide. Inlet is at 3 feet below original grade with 4 feet of stone below the distribution pipe. Bottom maximum depth is 7 feet below original grade. Effective sidewall begins at 5 feet below original grade. Maintain at least 8 feet spacing between trenches.

PUMP SYSTEM PROPOSED? YES NO

Pump system details: 1000 gallon pump chamber

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test required prior to Health Department approval of pumped septic system.

LOCATION:

1. Set septic tank and pump tank per plan
2. Set distribution box per plan
3. Install 2x7' trenches on contour in upper SDA.

ADDITIONAL NOTES Do not order the septic tank until after layout inspection and Sanitarian approval. Stake septic easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet.

Reviewed by: RB

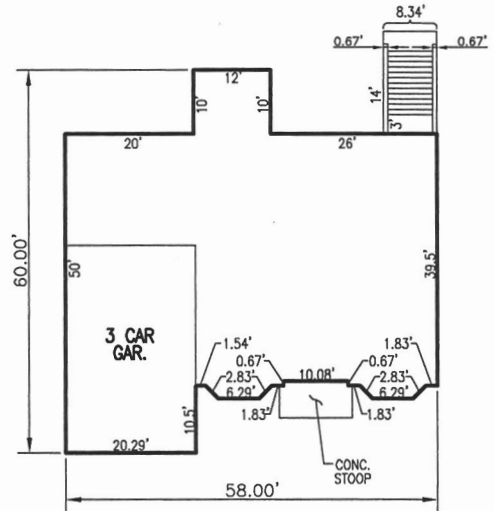
Date: 4/10/13

THE EXISTING WELL SHOWN ON LOT 22 TAG NO. 95-0450 HAS BEEN FIELD LOCATED BY ROBERT H. VOGEL ENGINEERING, INC., AND IS ACCURATELY SHOWN.

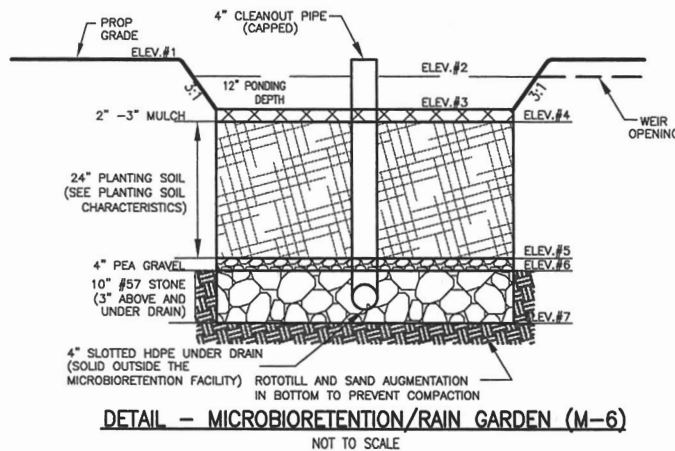
BUILDING OF LOT 22 FLOOR AREAS:  
 BASEMENT FLOOR AREA: 1980  
 FIRST FLOOR AREA: 2005  
 SECOND FLOOR AREA: 2340  
 BEDROOMS: 4

NOTE: STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A RAIN GARDEN (M-6), A DRY WELL (M-5), ROOFTOP DISCONNECTS (N-1), AND NON-ROOFTOP DISCONNECTS (N-2)

BUILDING PERMIT NO. \_\_\_\_\_



**THE TIBER MANOR**  
 W/ CULTURED STONE VENEER  
 SCALE: 1"=30'

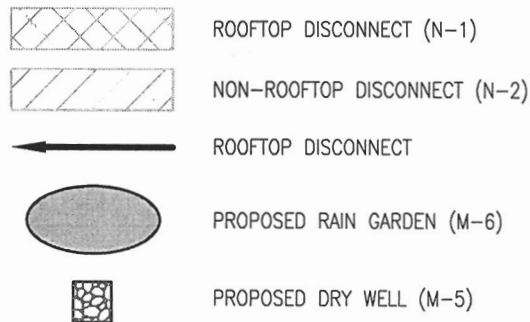


**DETAIL - MICROBIORETENTION/RAIN GARDEN (M-6)**  
 NOT TO SCALE

RAIN GARDEN (M-6) ELEVATIONS										
LOT #	RAIN GARDEN	1	2	3	4	5	6	7	4" INV.	4" INV. OUTFALL
LOT 22	RG 1	553.70	553.60	552.60	552.43	550.43	550.10	549.27	549.52	549.41

**RAIN GARDEN**  
 $I = 100\%$   
 $Pe = 1"$   
 $ESDV = A(Pe)(Rv)/12 =$   
 $ESDV = 620 SF(1")(0.95)/12 = 49 CF$

**DRY WELL**  
 $I = 100\%$   
 $Pe = 1"$   
 $ESDV = A(Pe)(Rv)/12 =$   
 $ESDV = 520 SF(1")(0.95)/12 = 42 CF$   
 $42 CF / 0.4 VOIDS = 105 CF STONE$



SCALE: AS SHOWN  
 DRAWN BY: JMR  
 CHECKED BY: RHV  
 DATE: MARCH 2013  
 PROJECT #: 2017085  
 SCALE: AS SHOWN  
 SHEET#: 2 OF 2

**PLOT PLAN**  
**CASTLEBERRY AT**  
**TEN OAKS**  
**LOT 22**  
**REF: F-06-130**  
 TAX MAP 22 PARCEL 90  
 BLOCK 19  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**ADDRESS**  
 4075 CANDLE LIGHT DR.  
 DAYTON, MD 21036  
 GP: 10-68

**OWNER**  
 CASTLEBERRY AT TEN OAKS, LLC.  
 3675 PARK AVENUE, SUITE 301  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 740-9401

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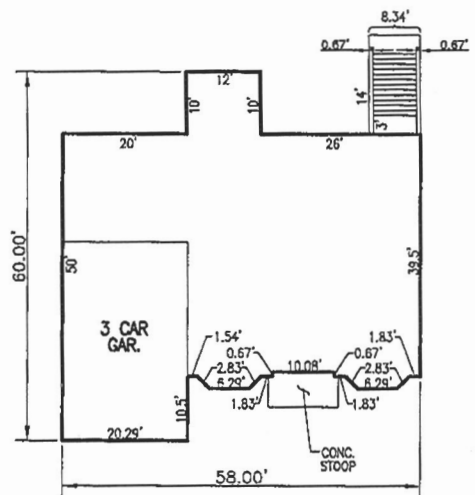
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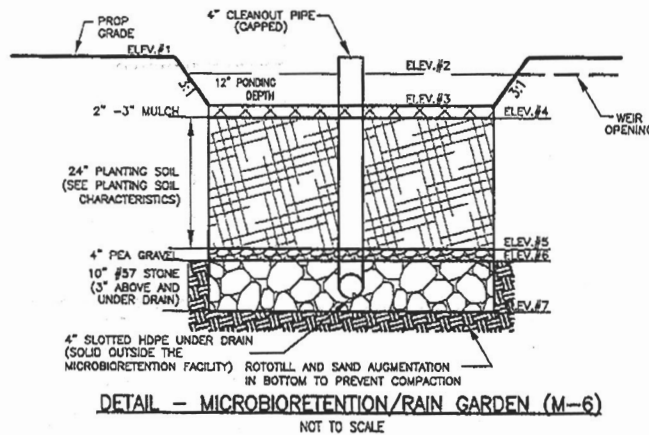
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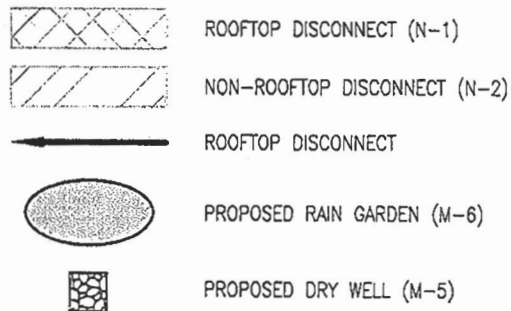
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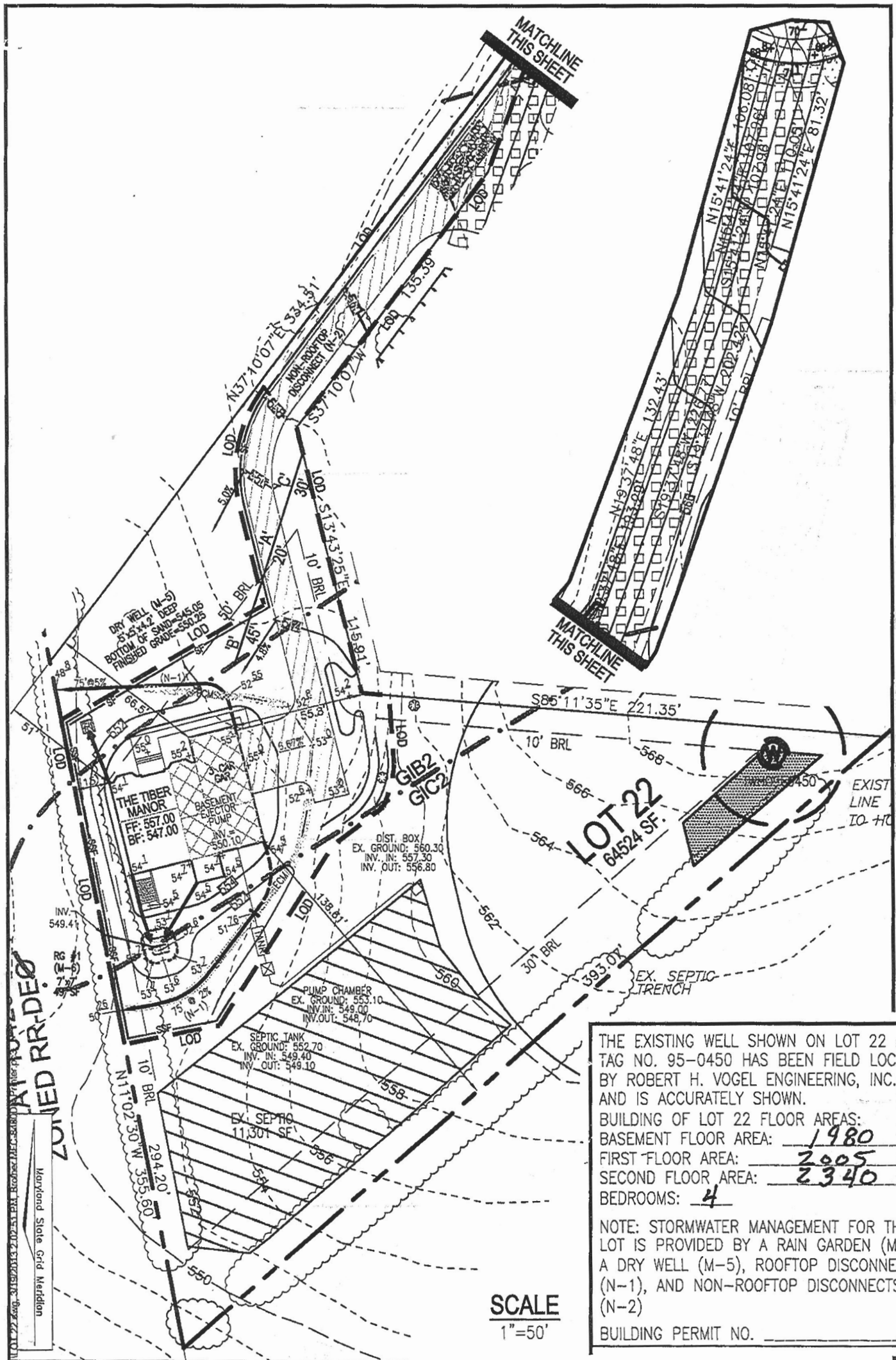
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BUILDING PERMIT NO. \_\_\_\_\_

**SCALE**  
1"=50'

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 CHECKED BY: RHV  
 DATE: MARCH 2013  
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