

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.org
 Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 11/14/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 506462

APPROVAL DATE: 6/19/2020 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 8045 Kayladine Lane

SUBDIVISION: Dustin's Golden Fields LOT: 5 TAX ID: _____

CONTRACTOR: Freedom Septic EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: Ikenna and Chin Weoke Nwacjkwu EMAIL: _____

OWNER ADDRESS: 1539 Rutland Way, Hanover PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault or equivalent

PUMP MODEL: SRM 4 PUMP SIZE: 4/10 PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>206</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<u>3 Trenches @ 68.75</u>	

ISSUED BY: Jeff Williams ISSUE DATE: 11/14/19 EXPIRATION DATE: 11/14/20

- 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 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 19005996
- 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

SEE ATTACHED
AS BUILT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4"	8"
NUMBER OF TRENCHES		3
TOTAL LENGTH		207 F
ABSORPTION AREA		621 sq' SIDE WALL
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		90° TURN DOWN
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER BABYLON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 2-3'

BAFFLES NO

BAFFLE FILTER NO

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 10/01/2019

PUMP/SEPTIC TANK LEVEL

MANUFACTURER BABYLON

CAPACITY 1500 GAL

SEAM LOC TOP

TANK LID DEPTH 2-3'

BAFFLES -

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED -

DATE ON LID 10/18/19

PRE-CONSTRUCTION:

11/20/19 Onsite w/ contractor. Trenches and SRA staked. Verified center of trenches. Off by a few inches. Tanks moved on high side of slope out of swale. Ex tank location's had tanks sitting in swale. (KAW)

11/22/2019 TANK AND SRA/S2 INSTALL w/o call in FOR INSP.

INSTALLATION: 11/25/2019 FM INSTALLED @ 11/26/2019 3x 69' TRENCHES COMPLETE 8' DEEP w/ INLET NEED P/A @

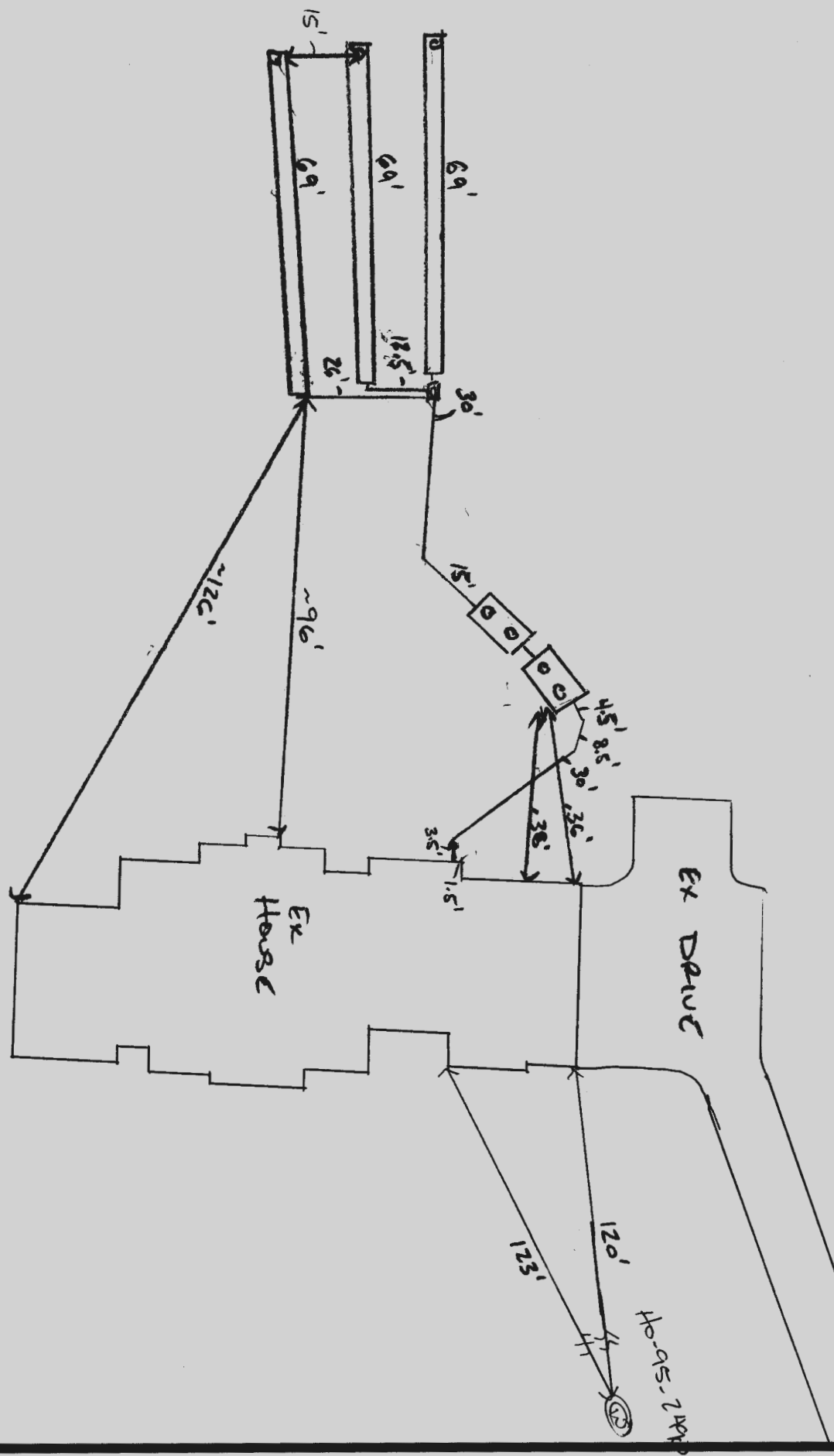
6/19/2020 Pump/Alarm test verified. Alarm located in garage. on separate circuit (KAW)

FINAL INSPECTOR

DATE OF APPROVAL

6/19/2020

NOT TO SCALE



**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.
Earl D. Collins, P.E.
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.
Mark L. Robel, P.L.S.
Aldo M. Vitucci, P.E.
Frank Manalansan II, L.S.
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Transmittal

Via: Fax Mail Messenger E-Mail To Be Picked Up
 Fax (original to follow via U.S. Mail)

To: Bureau of Environmental Health 8930 Stanford Boulevard Columbia, MD 21046-4544	Attn: Jeff/Dana Fax: (410) 313-2648 Phone: (410) 313-2640
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From: John Hoolachan	CC: Kevin Philpot
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Re: Dustin's Golden Fields Lot 5	W.O.# 15007-6005
Date: September 28, 2018	Pages: 4 Page(s) Including this cover

We are forwarding:	<input checked="" type="checkbox"/> Prints	<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Specifications	<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Other
	<input type="checkbox"/> Urgent	<input type="checkbox"/> For your use	<input type="checkbox"/> As requested	<input type="checkbox"/> For Review & Comment	

Remarks:

Jeff/Dana

Enclosed please find:

1) Four (4)prints of the drawing entitled " Revised Septic System Installation Plan Dustins Golden Fields Lot 5 " dated September 26, 2018.

2) One (1) copy previously approved Septic Installation Plan

Note: Owner changed house model

If we may be of any further assistance, please do not hesitate to call.

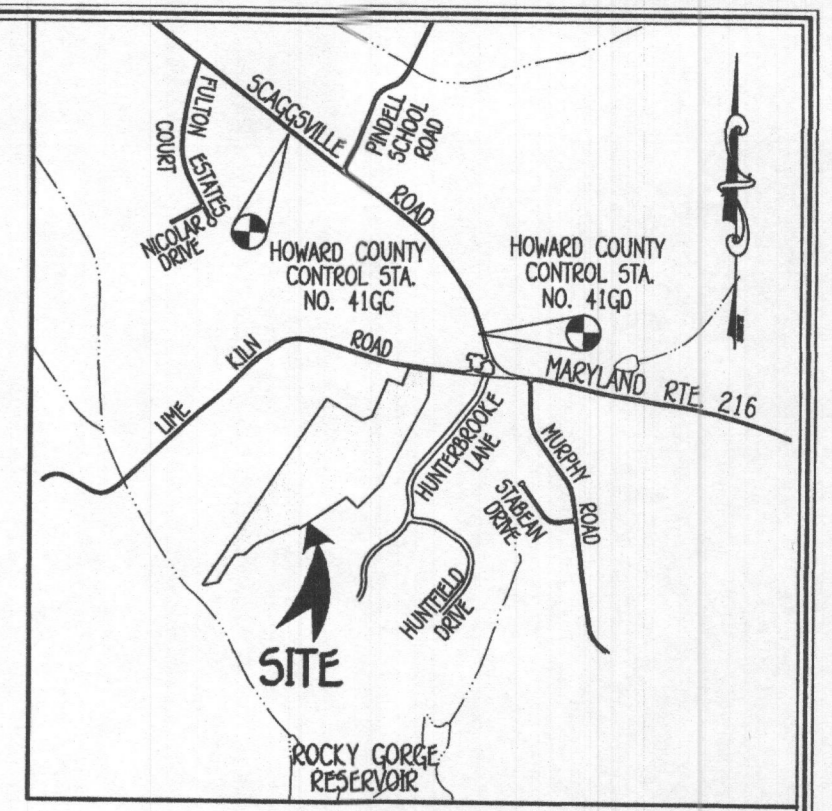
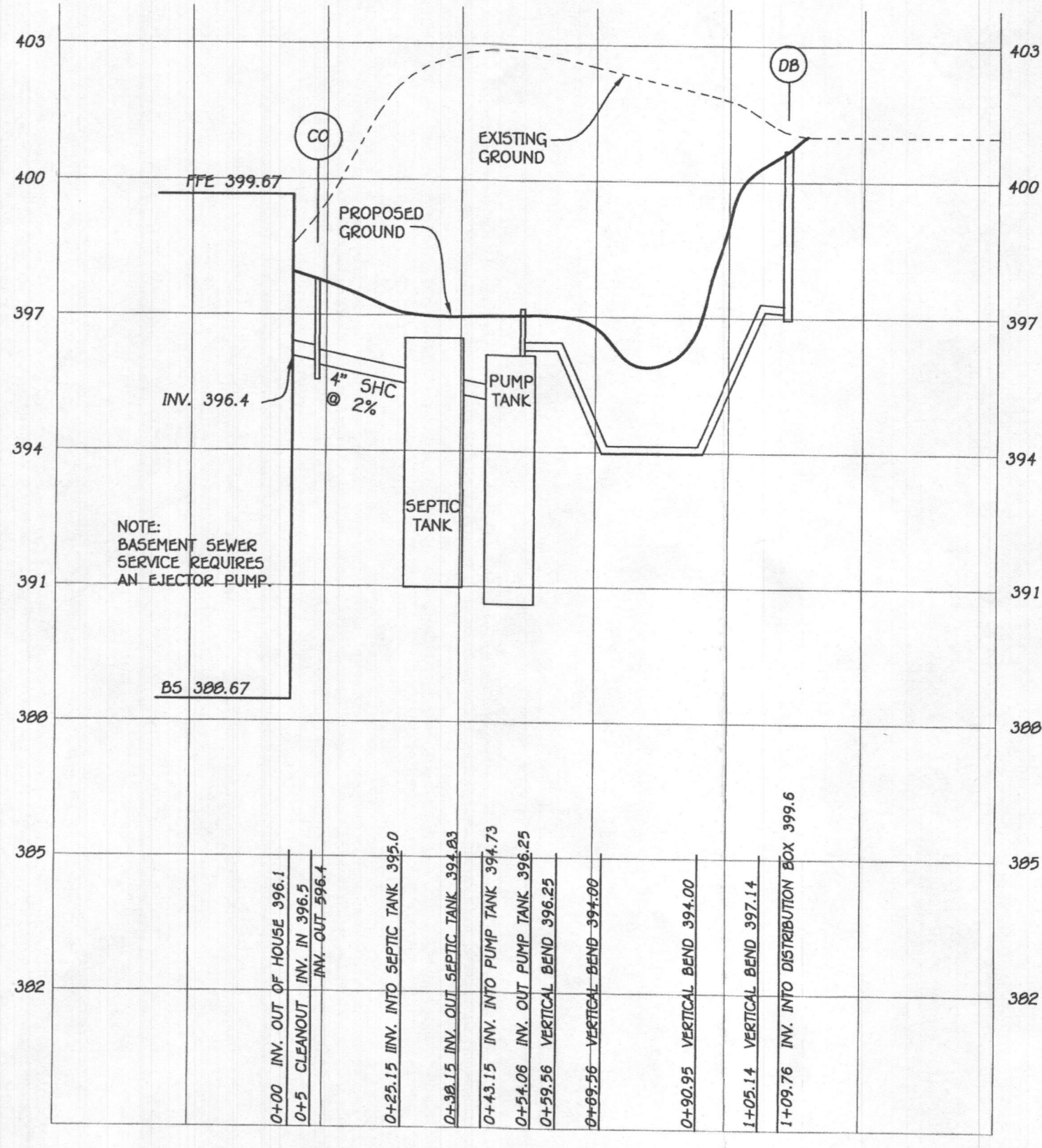
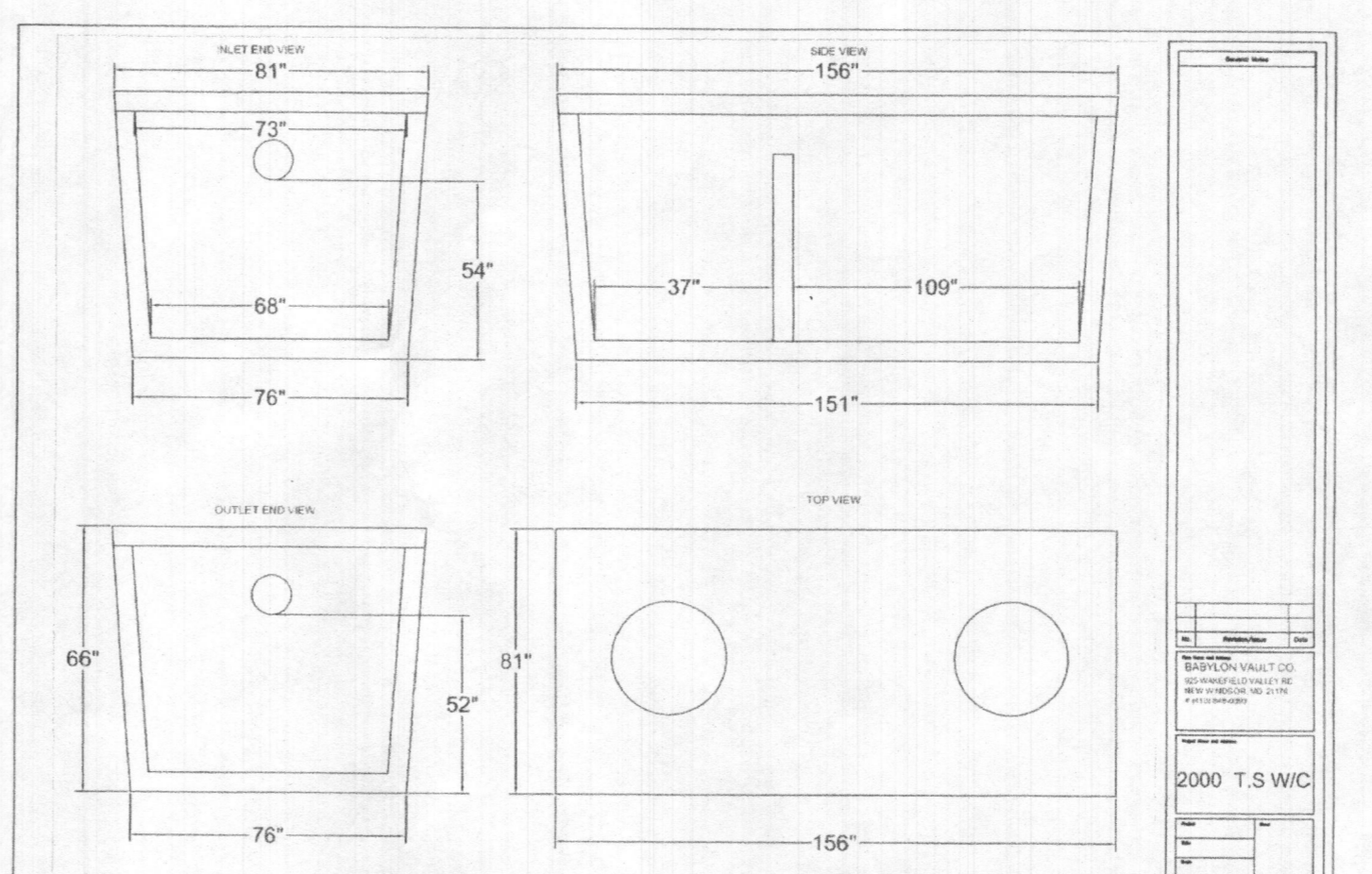
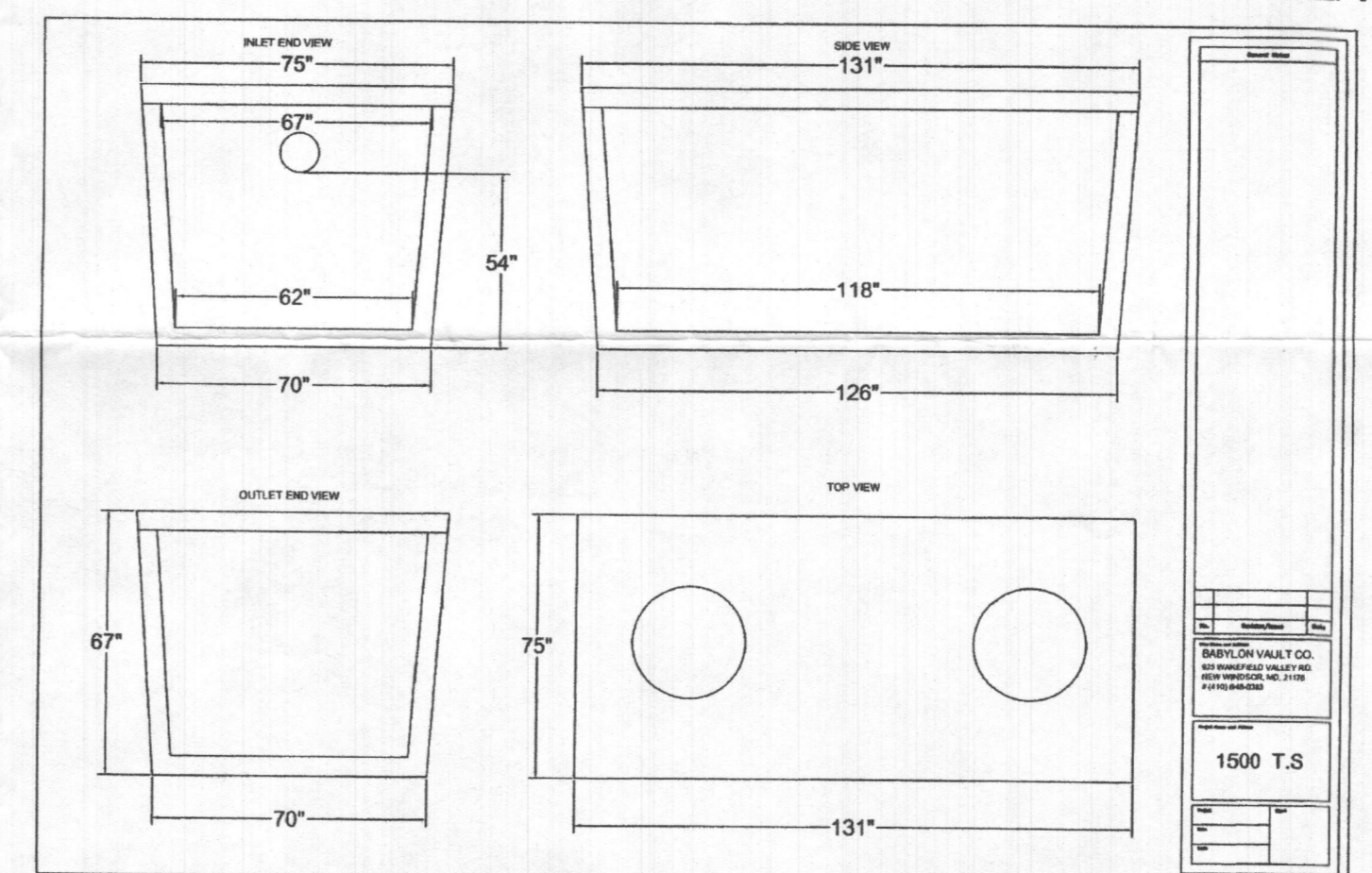
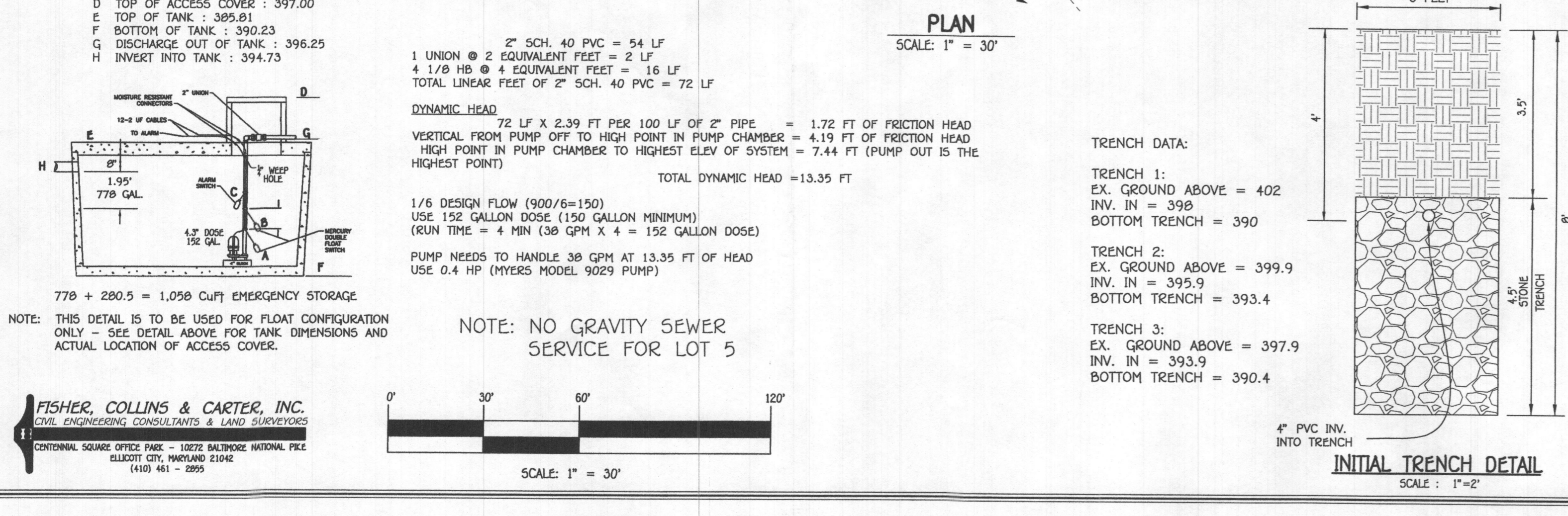
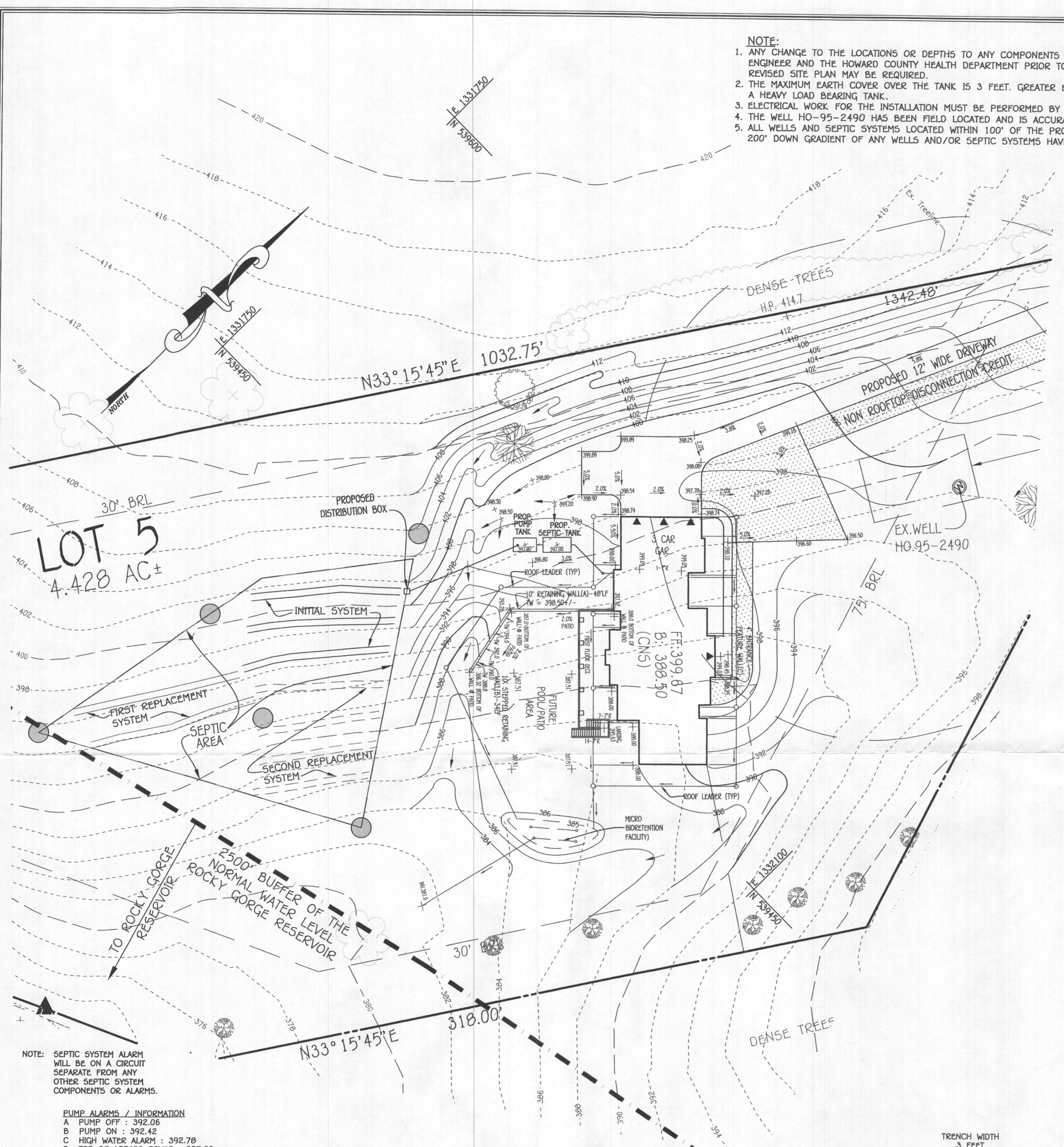
Very truly yours,


John Hoolachan

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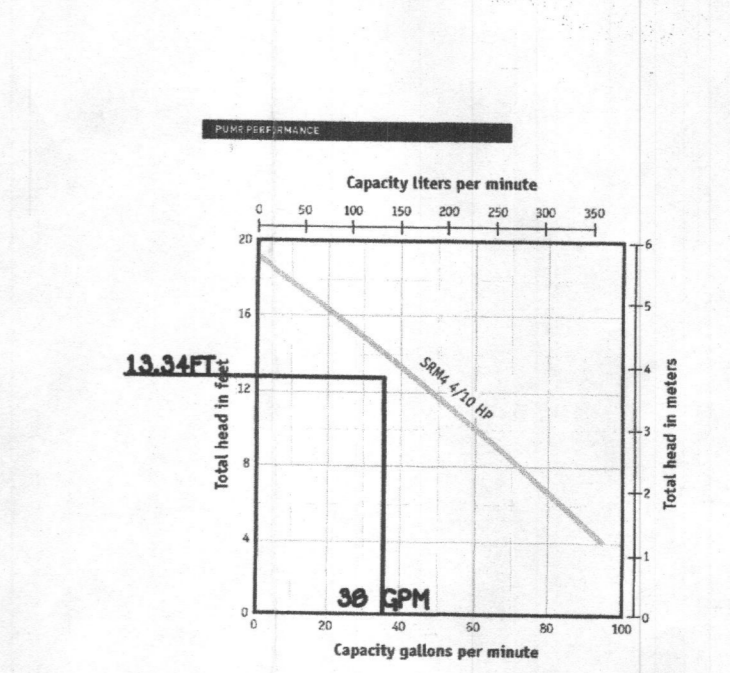
NOTE:
 1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 4. THE WELL HO-95-2490 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



SEWAGE DISPOSAL SYSTEM DATA
 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 6.5 FEET
 TRENCH DEPTH = 8 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 1.5 FEET
 SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x1.5)) = 0.550
 TRENCH LENGTH = 375 SF x 0.550 = 206 FEET
 TRENCH SPACING = 2D+W = ((2x1.5) + 3) = 9 USE 10' (3 TRENCH'S AT 68.75')

FIRST REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 2.0 FEET
 TRENCH DEPTH = 6.5 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 2.0 FEET
 SF OF DRAINFIELD = 900 GPD / 0.8 = 750 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2)) = 0.625
 TRENCH LENGTH = 750 SF x 0.625 = 156.25 FEET
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 9 USE 10' (2 TRENCH'S AT 78.13')

SECOND REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
 TRENCH DEPTH = 7.5 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 2.0 FEET
 SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2)) = 0.625
 TRENCH LENGTH = 1125 SF x 0.625 = 234.38 FEET
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 9 USE 10' (4 TRENCH'S AT 58.6')



Catalog Number	HP	Volts	Phase/Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
SEMAC-1	1/2	115	1500	12	2"	Ballasted Automatic	20'	48
SEMAC-2	1/2	115	1500	12	2"	Vertical Automatic	20'	48
SEMAC-3	1/2	115	1500	12	2"	Vertical Automatic	20'	48
SEMAC-4	1/2	115	1500	12	2"	Vertical Automatic	20'	48
SEMAC-5	1/2	115	1500	12	2"	Vertical Automatic	20'	48

FFE 399.67
 BSE 388.67
 INV. OUT OF HOUSE = 396.1
 PROP. GROUND AT CLEANOUT #1 = 398.3
 INV. INTO CLEANOUT = 396.50
 INV. OUT OF CLEANOUT = 396.40
 EX. GROUND AT SEPTIC TANK = 401.0
 PROP. GRADE ABOVE SEPTIC TANK = 397.0
 TOP OF SEPTIC TANK = 396.5
 INV. INTO SEPTIC TANK = 395.0
 INV. OUT OF SEPTIC TANK = 394.83
 EX. GROUND AT PUMP TANK = 402.3
 PROP. GRADE ABOVE PUMP TANK = 397.0
 TOP OF PUMP TANK = 395.81
 INV. INTO PUMP TANK = 394.73
 INV. OUT OF PUMP TANK = 396.25
 EX. GROUND AT DISTRIBUTION BOX = 401.0
 INV. INTO DISTRIBUTION BOX = 399.6
 INV. OUT OF DISTRIBUTION BOX = 399.5

Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature] Date: 10/3/18

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
5	8045 KAYLADINE LANE

REVISED SEPTIC SYSTEM INSTALLATION SITE PLAN
DUSTIN'S GOLDEN FIELDS
 LOT 5
 8045 KAYLADINE LANE
 ZONED: RR-DEO
 TAX MAP NO.: 46 PARCEL NO.: 103 GRID NO.: 2
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1"=30' DATE: SEPTEMBER 26, 2018
 SHEET 1 OF 1



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: 02/22/2019.
 Signature: [Signature] DATE: 9/27/19

OWNER
 IKENNA AND CHINWEKE NWACHUKWU
 1539 BULLLAND WAY
 HANOVER MD 21076

BUILDER
 LIBERTY CUSTOM HOMES A
 DIVISION OF K P & ASSOCIATES
 P.O. BOX 187
 CHESTER, MD 21619
 410-643-3099

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 18272 BALDWIN NATIONAL PIKE
 SUITE 101, MARYLAND 21042
 (410) 461-2899