

GENERAL NOTES:

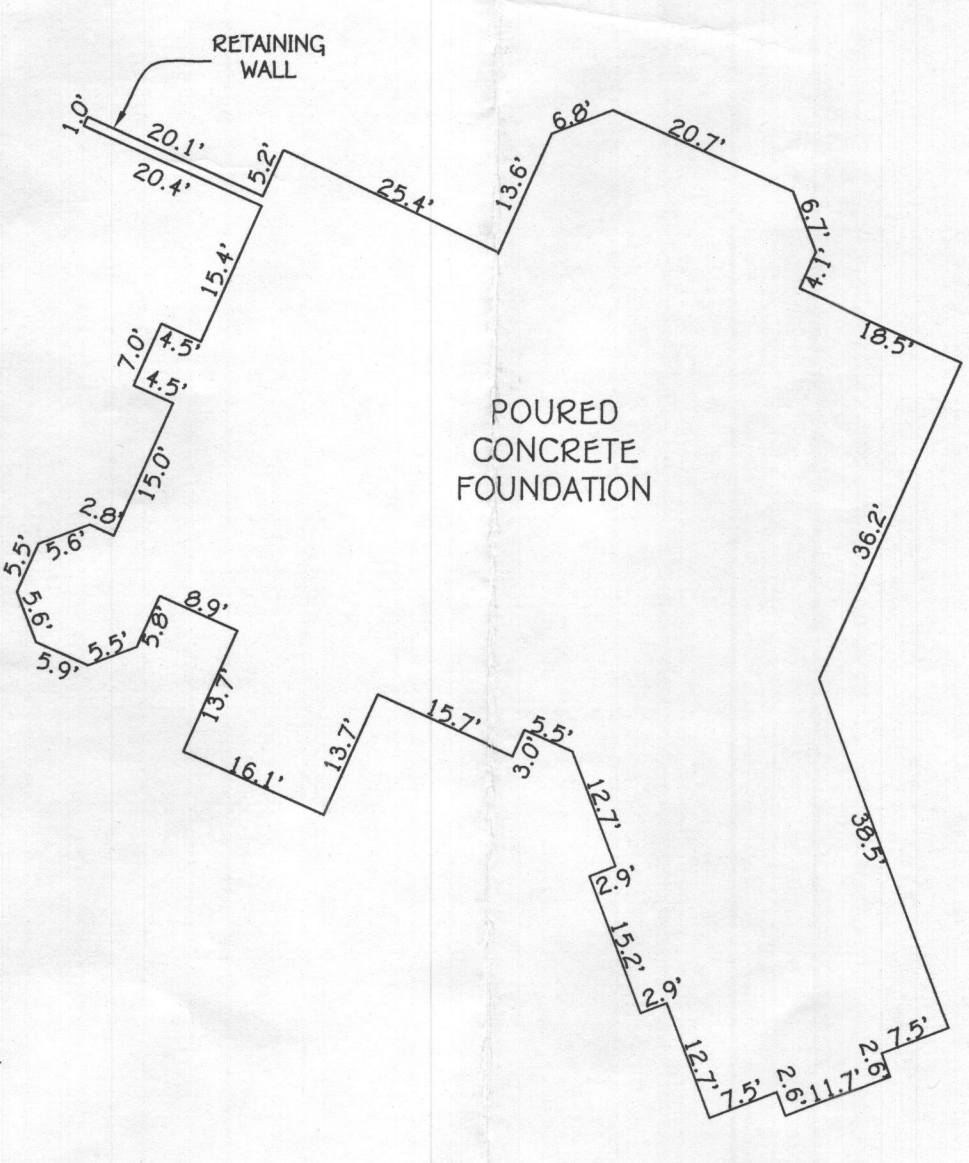
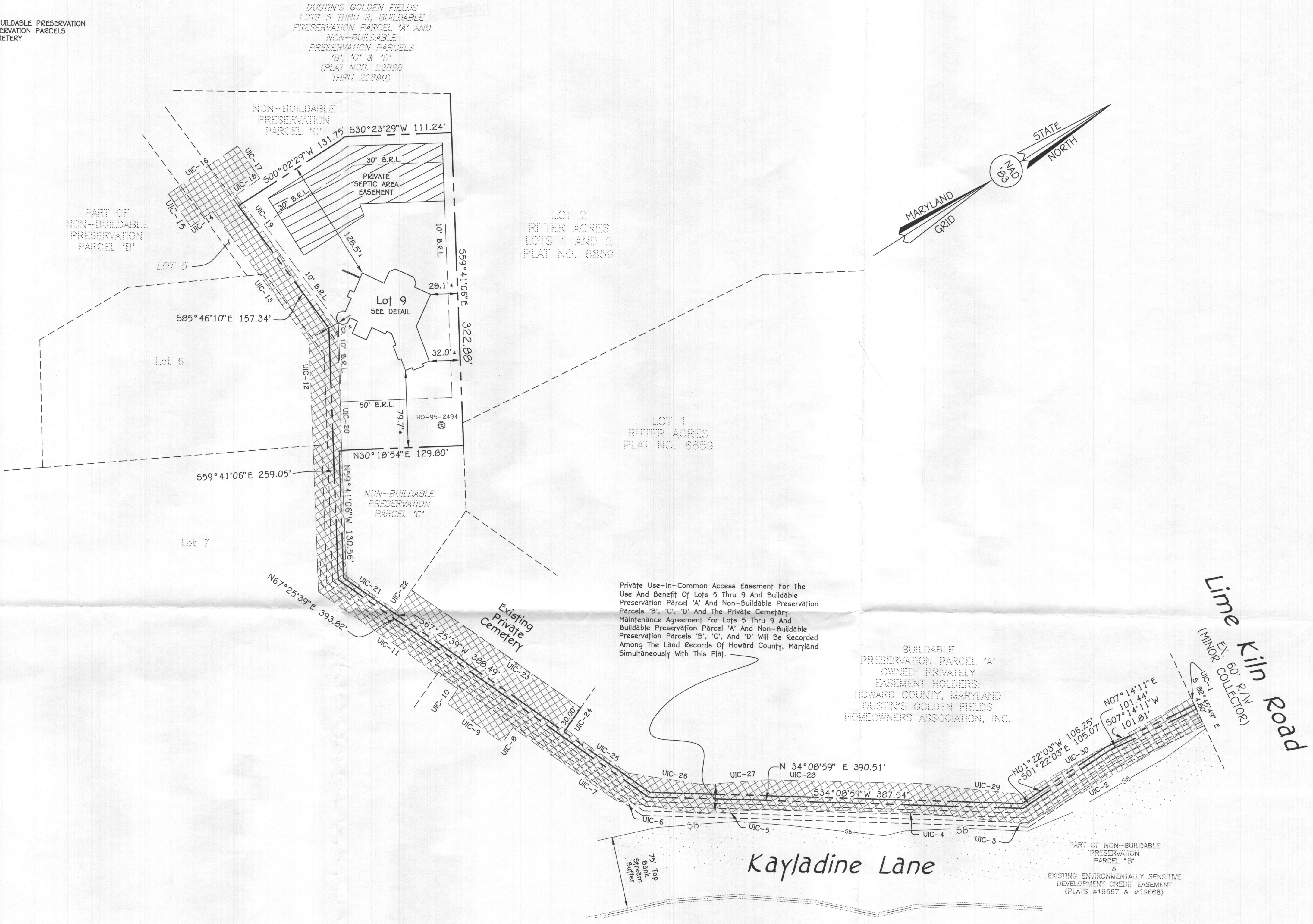
- THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS 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.
- SUBJECT PROPERTY IS SHOWN IN ZONE "X" ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24022001450, EFFECTIVE 11/16/2013.
- THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1".
- THE EXISTING WELLS SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2494 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD
- PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE 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. 21476, EXPIRATION DATE 7/14/2023.
- BUILDING PERMIT #B-19002430

Legend

- PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 5 THRU 9, BUILDABLE PRESERVATION PARCEL 'A', NON-BUILDABLE PRESERVATION PARCELS 'B', 'C', 'D' AND THE PRIVATE CEMETERY
- EXISTING STREAM BUFFER

Private Use-In-Common Access Easement Line Tabulation Sheet

Sym	Bearing & Distance
UIC-1	S82°45'49"E 30.08'
UIC-2	S03°09'28"W 210.74'
UIC-3	S38°28'24"W 112.97'
UIC-4	S33°47'15"W 155.69'
UIC-5	S28°12'08"W 69.69'
UIC-6	S41°10'16"W 90.73'
UIC-7	S67°25'39"W 131.29'
UIC-8	N22°24'03"W 18.94'
UIC-9	S67°39'57"W 70.00'
UIC-10	S22°24'03"E 18.73'
UIC-11	S67°25'39"W 177.08'
UIC-12	S59°41'06"E 257.41'
UIC-13	S85°46'10"W 167.92'
UIC-14	S02°00'39"E 27.46'
UIC-15	S87°51'21"E 40.96'
UIC-16	N02°08'38"W 87.40'
UIC-17	N87°51'21"E 40.96'
UIC-18	S02°08'38"E 29.92'
UIC-19	S85°46'10"W 176.16'
UIC-20	S59°41'06"E 251.82'
UIC-21	S67°25'39"W 63.67'
UIC-22	S22°34'21"E 27.00'
UIC-23	N67°25'39"E 214.50'
UIC-24	S22°34'21"E 27.00'
UIC-25	S67°25'39"W 78.29'
UIC-26	S41°10'16"W 80.32'
UIC-27	S28°12'08"W 67.75'
UIC-28	S33°47'15"W 158.38'
UIC-29	S38°28'24"W 104.63'
UIC-30	S03°09'28"W 203.34'



DETAIL:
1"=20'



3/28/22
DATE

#2030 KAYLADINE LANE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 446.5'

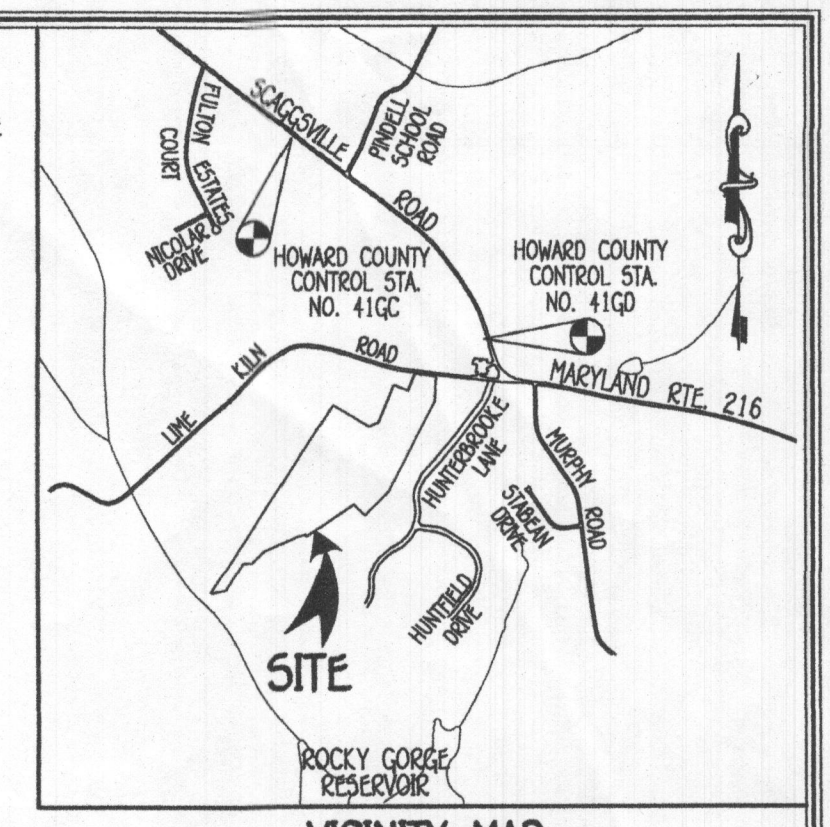
LOT 9
DUSTIN'S GOLDEN FIELDS
LOTS 5 THRU 9 AND
BUILDABLE PRESERVATION PARCEL 'A'
AND NON-BUILDABLE PRESERVATION
PARCELS 'B', 'C' & 'D'
PLAT NOS. 22888 THRU 22890
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 3/218/22
FINAL LOCATION:
BOUNDARY SURVEY:
SCALE: 1"=60'
DATE: 3/23/2022
DRAWN BY: JH
CHECKED BY: JH II
PROJECT No. 205072-6008

Wall Check
OK RME
4/8/2022

- 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-95-2494 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.



VICINITY MAP
SCALE: 1" = 2,000'
HO. CO. ADC MAP 18, GRID G-5

SEWAGE DISPOSAL SYSTEM DATA
7 BEDROOMS
LOADING RATE = 7 BEDROOMS X 150 GPD/BEDROOM = 1050 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5.0 FEET
TRENCH DEPTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
5F OF DRAINFIELD = 1050 GPD / 0.8 = 1312.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2x3) = 0.5
TRENCH LENGTH = 437.50 SF X 0.5 = 218.75 FEET
TRENCH SPACING = 2D+W = (2x3) + 3 = 9 USE 10' (4 TRENCH'S AT 54.69')

FIRST REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
7 BEDROOMS
LOADING RATE = 7 BEDROOMS X 150 GPD/BEDROOM = 1050 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 6 FEET
TRENCH DEPTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
5F OF DRAINFIELD = 1050 GPD / 0.8 = 1312.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2x2) = 0.625
TRENCH LENGTH = 437.5 SF X 0.625 = 273.44 FEET
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7 USE 10' (4 TRENCH'S AT 68.36')

SECOND REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
7 BEDROOMS
LOADING RATE = 7 BEDROOMS X 150 GPD/BEDROOM = 1050 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.0 FEET
5F OF DRAINFIELD = 1050 GPD / 0.8 = 1312.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+2x1) = 0.833
TRENCH LENGTH = 437.50 SF X 0.833 = 364.50 FEET
TRENCH SPACING = 2D+W = ((2x1) + 3) = 5 USE 10' (5 TRENCH'S AT 72.92')

FFE 447.70
BSE 436.75
INV. OUT OF HOUSE = 436.00
PROP. GROUND AT CLEANOUT #1 = 438.3
INV. INTO CLEANOUT = 435.72
INV. OUT OF CLEANOUT = 433.97
EX. GROUND AT SEPTIC TANK = 436.00
PROP. GRADE ABOVE SEPTIC TANK = 436.00
TOP OF SEPTIC TANK = 434.00
INV. INTO SEPTIC TANK = 433.00
INV. OUT OF SEPTIC TANK = 432.75
EX. GROUND AT PUMP TANK = 435.8
PROP. GRADE ABOVE PUMP TANK = 435.8
TOP OF PUMP TANK = 433.55
INV. INTO PUMP TANK = 432.47
INV. OUT OF PUMP TANK = 433.99
EX. GROUND AT DISTRIBUTION BOX = 448.31
INV. INTO DISTRIBUTION BOX = 446.91
INV. OUT OF DISTRIBUTION BOX = 446.81

Approved Septic System Plan
Howard County Health Department
[Signature] 4/8/2022
Signature Date

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
9	8030 KAYLADINE LANE

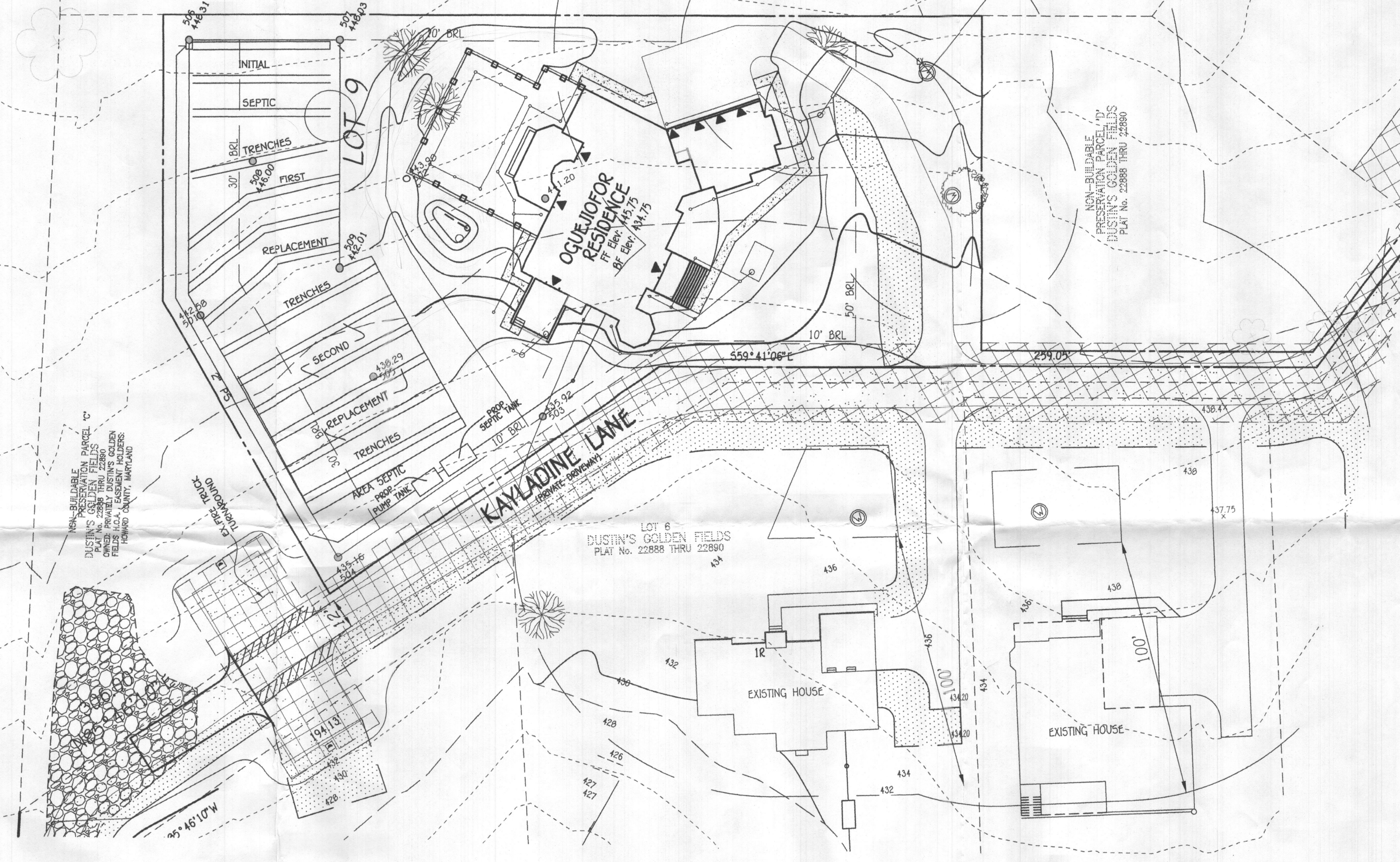
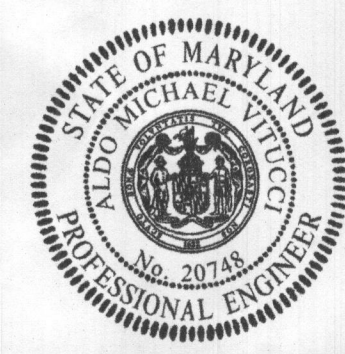
**SEPTIC SYSTEM
INSTALLATION SITE PLAN**
DUSTIN'S GOLDEN FIELDS
LOT 9
8030 KAYLADINE LANE
ZONED: RR-DEO
TAX MAP NO.: 46 PARCEL NO.: 103 GRID NO.: 2
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: MARCH 20, 2022
SHEET 1 OF 2

OWNER
PATRICK C. OGUEJIOFOR
8603 CROOKED TREE LANE
LAUREL MD 20724

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

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: 02/22/2013.

[Signature] 3/23/22
Signature Of Professional Engineer DATE



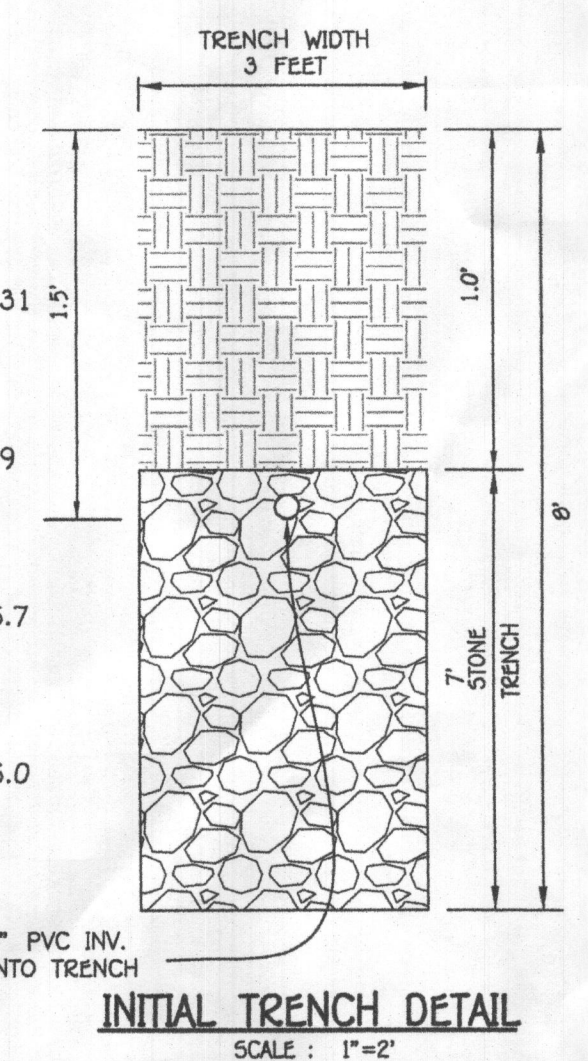
TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 448.31
INV. IN = 446.81
BOTTOM TRENCH = 440.31

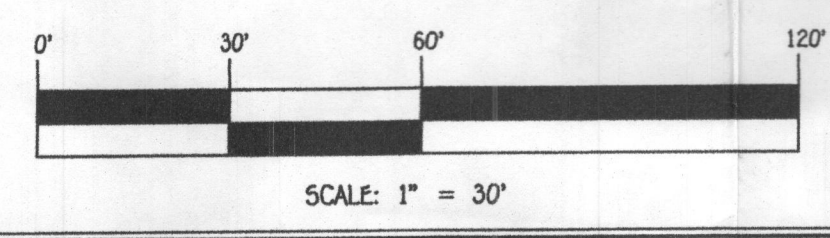
TRENCH 2:
EX. GROUND ABOVE = 447.9
INV. IN = 446.4
BOTTOM TRENCH = 439.9

TRENCH 3:
EX. GROUND ABOVE = 446.7
INV. IN = 445.2
BOTTOM TRENCH = 438.7

TRENCH 4:
EX. GROUND ABOVE = 446.0
INV. IN = 444.5
BOTTOM TRENCH = 438.0

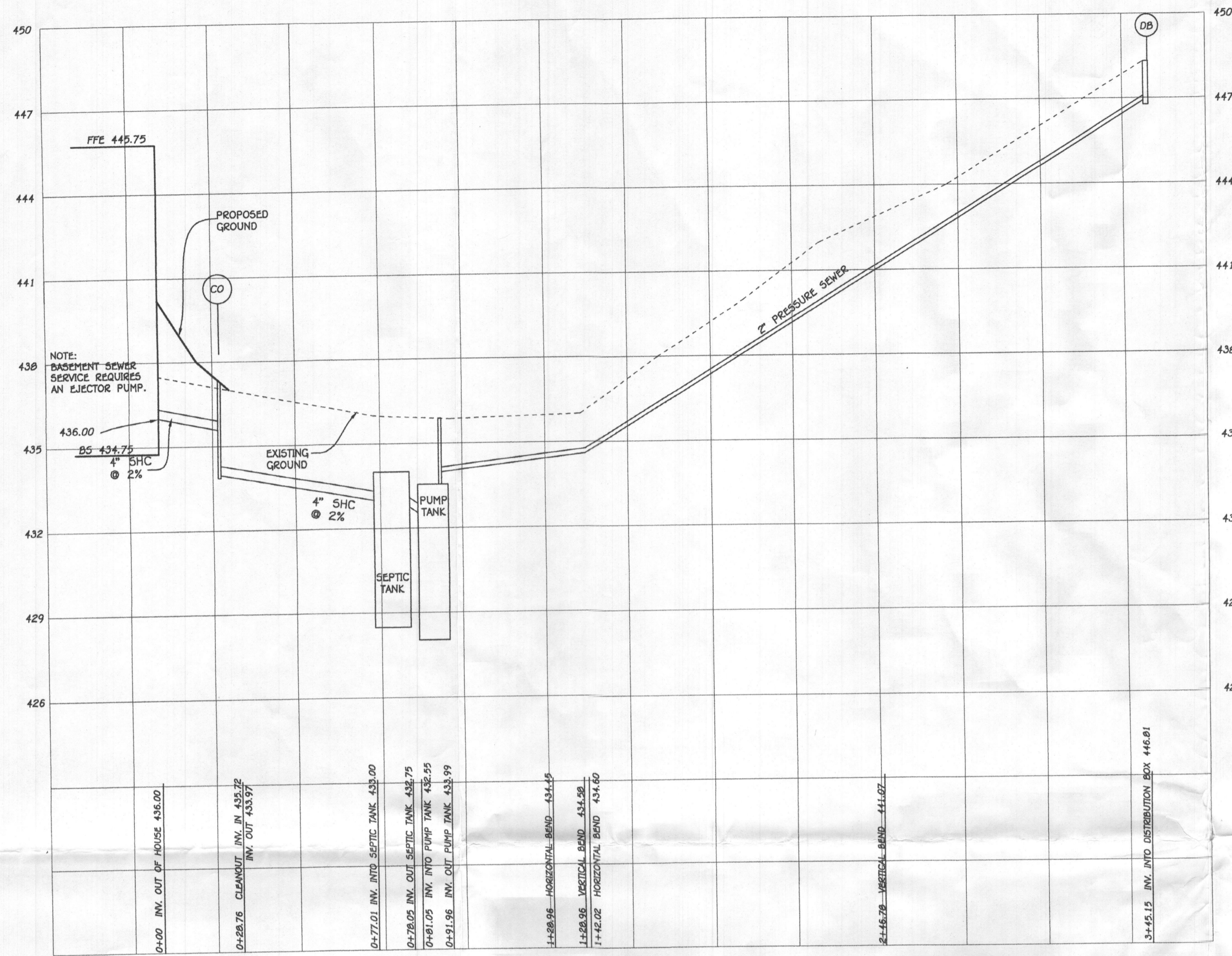


PLAN
SCALE: 1" = 30'

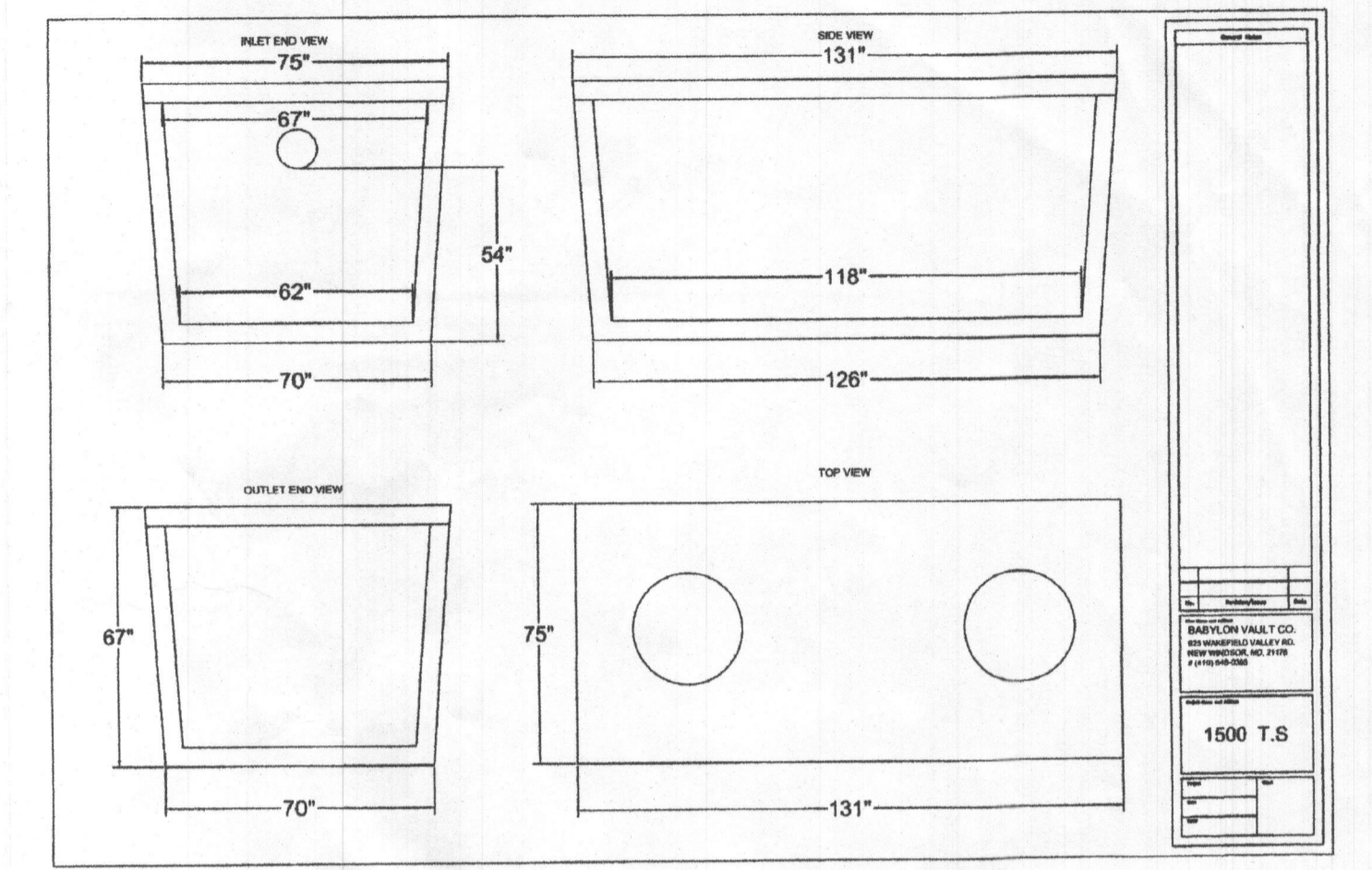


NOTE: NO GRAVITY SEWER SERVICE FOR LOT 9

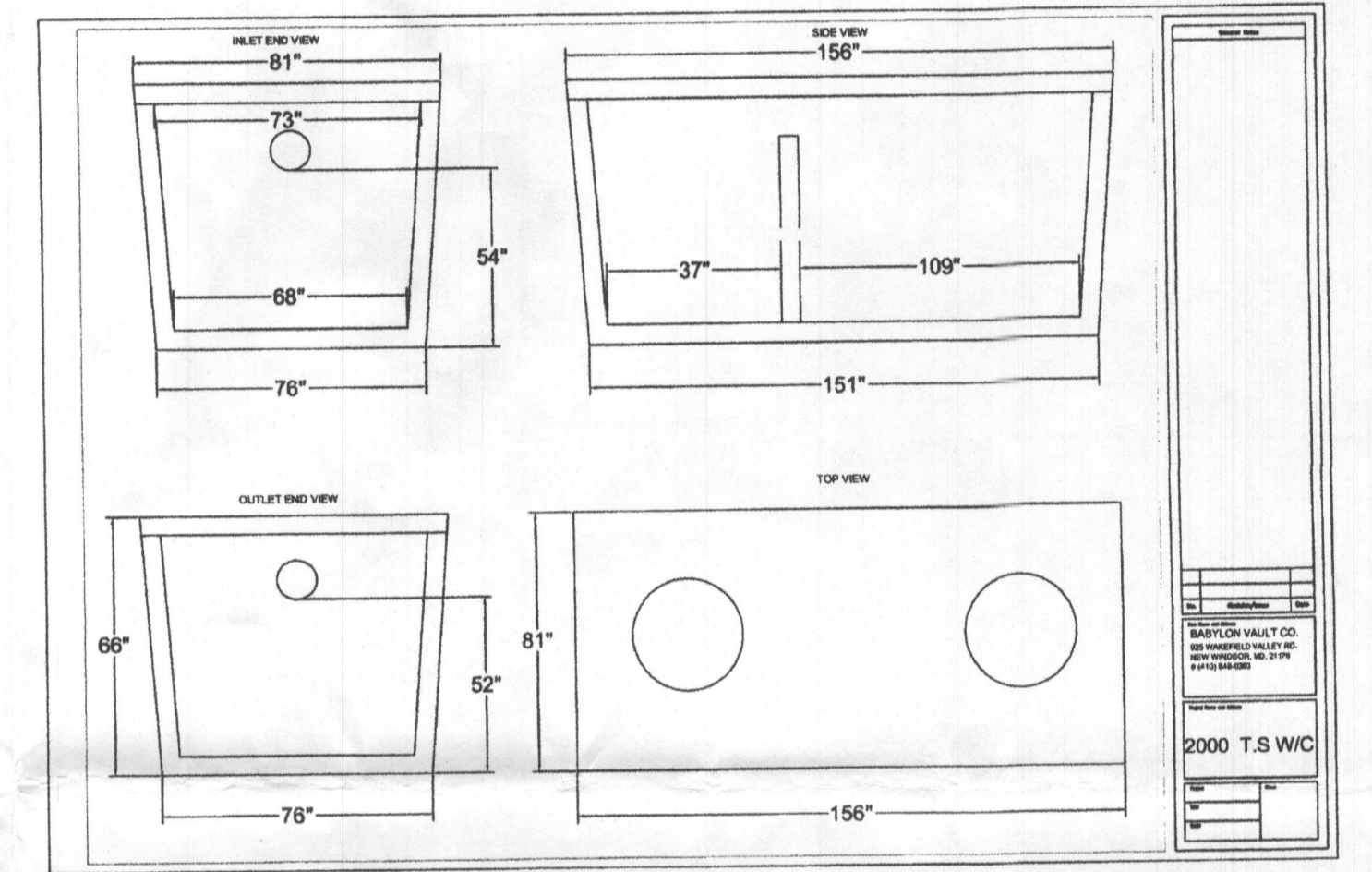
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELKLOTT CITY, MARYLAND 21041
(410) 481-1895



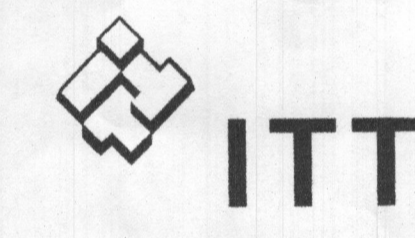
SEPTIC PROFILE
SCALE: 1"=30'



PUMP TANK DETAIL
NOT TO SCALE



SEPTIC TANK DETAIL
NOT TO SCALE



GOULDS PUMPS
Wastewater

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

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

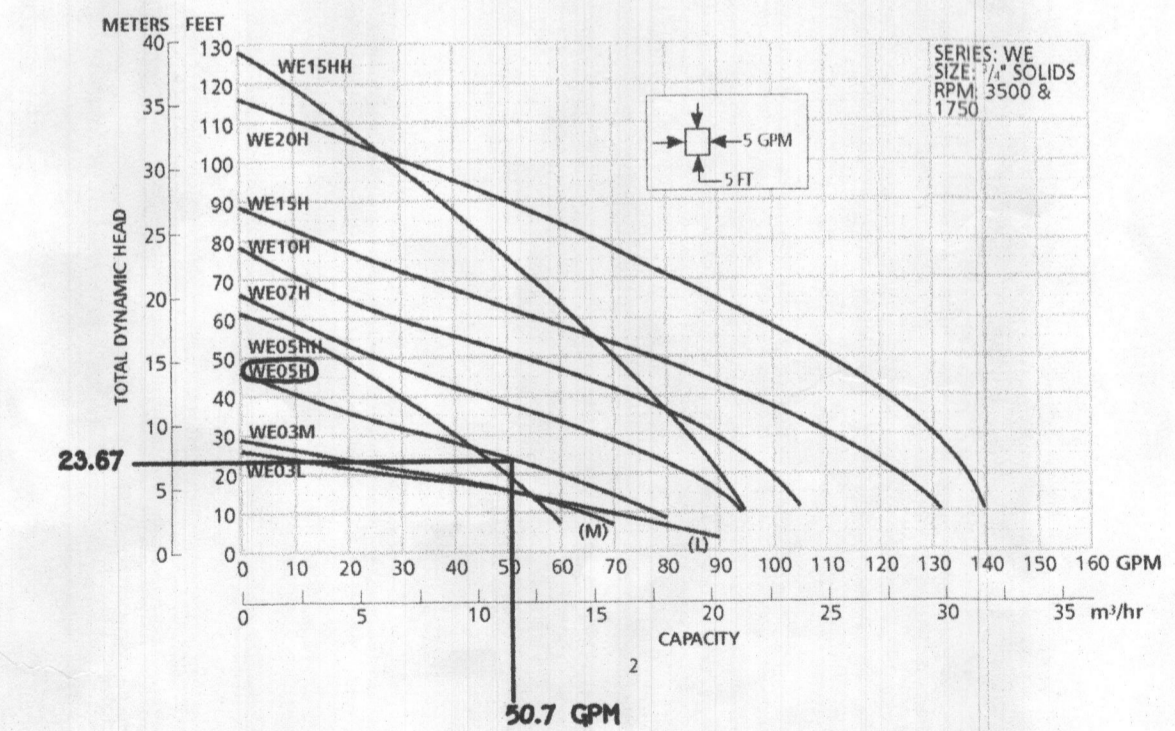
MOTORS
■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
■ Class B insulation on 1/2 - 1 1/2 HP models.
■ Class F insulation on 2 HP models.

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

• 1/2 - 1 HP models have NEMA three prong grounding plugs.
• 1 1/2 HP and larger units have bare lead cord ends.
Three phase (60 Hz):
• Class 10 overload protection must be provided in separately ordered starter unit.
• STOW power cords all have bare lead cord ends.

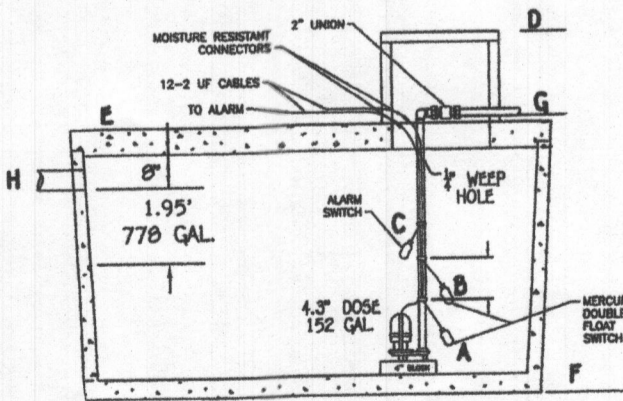
■ Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
■ Bearings: Upper and lower heavy duty ball bearing construction.
■ Power Cables: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
■ O-Ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS
Tested to UL 778 and CSA 22.2 198 Standards
By Canadian Standards Association File #183049
Goulds Pumps is ISO 9001 Registered.



NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.

- PUMP ALARMS / INFORMATION**
- A PUMP OFF : 429.80
 - B PUMP ON : 430.16
 - C HIGH WATER ALARM : 430.52
 - D TOP OF ACCESS COVER : 435.60
 - E TOP OF TANK : 433.55
 - F BOTTOM OF TANK : 427.97
 - G DISCHARGE OUT OF TANK : 433.99
 - H INVERT INTO TANK : 432.47



778 + 280.5 = 1,058.5 Cuft EMERGENCY STORAGE

NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

1 UNION @ 2" SCH. 40 PVC = 253 LF
3 1/8" HD @ 4" EQUIVALENT FEET = 12 LF
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 267 LF

DYNAMIC HEAD
267 LF X 2.39 FT PER 100 LF OF 2" PIPE = 6.38 FT OF FRICTION HEAD
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 3.47 FT OF FRICTION HEAD
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 12.82 FT (PUMP OUT IS THE HIGHEST POINT)
TOTAL DYNAMIC HEAD = 23.67 FT

1/6 DESIGN FLOW (900/6=150)
USE 152 GALLON DOSE (150 GALLON MINIMUM)
(RUN TIME = 3 MIN (50.67 GPM X 3 = 152 GALLON DOSE))

PUMP NEEDS TO HANDLE 50.67 GPM AT 23.67 FT OF HEAD
USE 0.5 HP (GOULD MODEL WE0H PUMP)



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. 20743, EXPIRATION DATE: 02/22/2023.

Michael J. Vitoreo
Signature of Professional Engineer

3/24/22
DATE

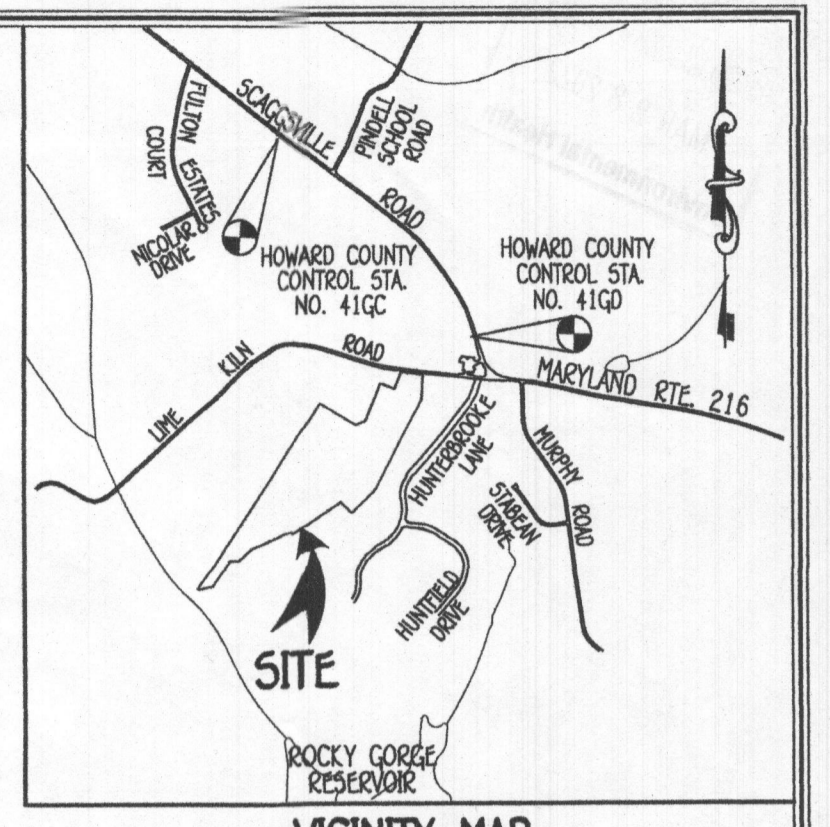
OWNER
PATRICK C. OGUELOFOR
8603 CROOKED TREE LANE
LAUREL MD 20724

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**

DUSTIN'S GOLDEN FIELDS
LOT 9
8030 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: MARCH 28, 2022
SHEET 2 OF 2

- NOTE:**
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SCALE: 1" = 2,000'
HO. CO.-ADC MAP 18, GRID G-5

SEWAGE DISPOSAL SYSTEM DATA
7 BEDROOMS
LOADING RATE = 7 BEDROOMS X 150 GPD/BEDROOM = 1050 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5.0 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
SF OF DRAINFIELD = 1050 GPD / 0.8 = 1312.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5
TRENCH LENGTH = 437.50 SF X 0.5 = 218.75 FEET
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9 USE 10' (4 TRENCH'S AT 54.69')

FIRST REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
7 BEDROOMS
LOADING RATE = 7 BEDROOMS X 150 GPD/BEDROOM = 1050 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 6 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 1050 GPD / 0.8 = 1312.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2)) = 0.625
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SECOND REPLACEMENT SEWAGE DISPOSAL SYSTEM DATA
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APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH = 6.5 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.0 FEET
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COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x1)) = 0.833
TRENCH LENGTH = 437.50 SF X 0.833 = 364.58 FEET
TRENCH SPACING = 2D+W = ((2x1) + 3) = 5 USE 10' (5 TRENCH'S AT 72.92')

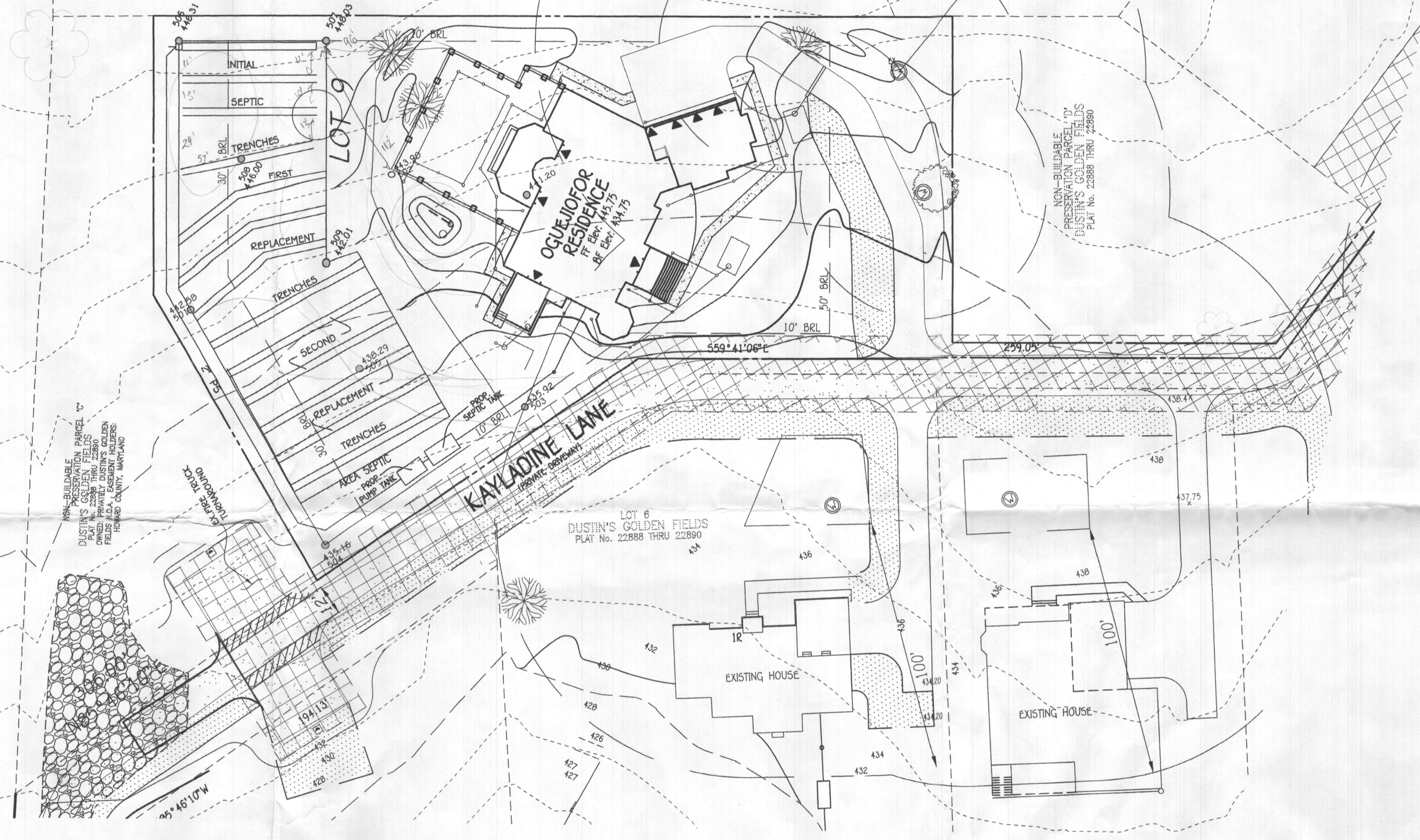
- FFE 447.70
- BSE 436.75
- INV. OUT OF HOUSE = 436.00
- PROP. GROUND AT CLEANOUT #1 = 438.3
- INV. INTO CLEANOUT = 435.72
- INV. OUT OF CLEANOUT = 433.97
- EX. GROUND AT SEPTIC TANK = 436.00
- PROP. GRADE ABOVE SEPTIC TANK = 436.00
- TOP OF SEPTIC TANK = 434.00
- INV. INTO SEPTIC TANK = 433.00
- INV. OUT OF SEPTIC TANK = 432.75
- EX. GROUND AT PUMP TANK = 435.8
- PROP. GRADE ABOVE PUMP TANK = 435.8
- TOP OF PUMP TANK = 433.55
- INV. INTO PUMP TANK = 432.47
- INV. OUT OF PUMP TANK = 433.99
- EX. GROUND AT DISTRIBUTION BOX = 448.91
- INV. INTO DISTRIBUTION BOX = 446.91
- INV. OUT OF DISTRIBUTION BOX = 446.81

Approved Septic System Plan
Howard County Health Department
Patrick C. Oquero
Signature Date 4/8/2022

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
9	8030 KAYLADINE LANE

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**
**DUSTIN'S GOLDEN FIELDS
LOT 9**
8030 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: MARCH 28, 2022
SHEET 1 OF 2



PLAN
SCALE: 1" = 30'

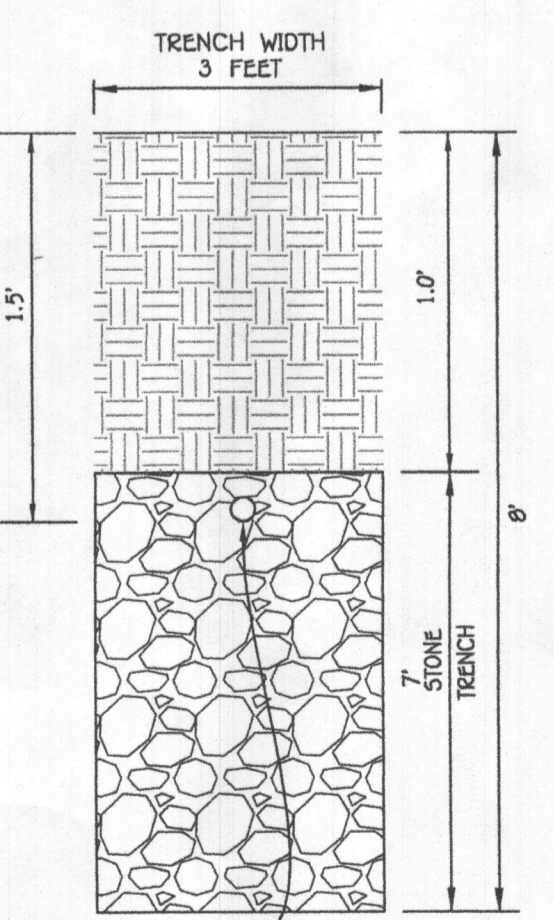
TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 448.31
INV. IN = 446.81
BOTTOM TRENCH = 440.31

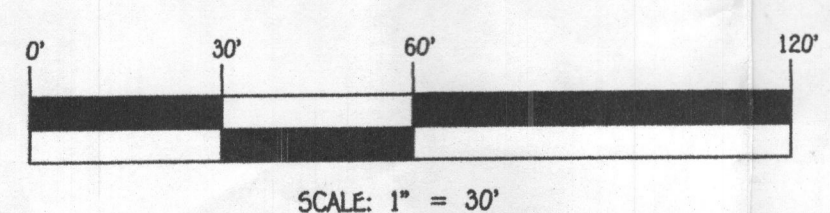
TRENCH 2:
EX. GROUND ABOVE = 447.9
INV. IN = 446.4
BOTTOM TRENCH = 439.9

TRENCH 3:
EX. GROUND ABOVE = 446.7
INV. IN = 445.2
BOTTOM TRENCH = 438.7

TRENCH 4:
EX. GROUND ABOVE = 446.0
INV. IN = 444.5
BOTTOM TRENCH = 438.0

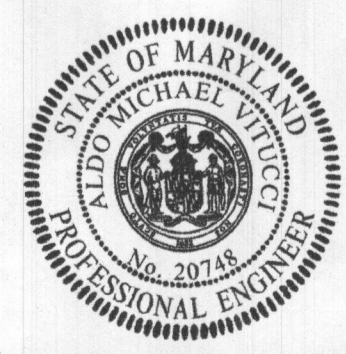


INITIAL TRENCH DETAIL
SCALE: 1" = 2"



NOTE: NO GRAVITY SEWER SERVICE FOR LOT 9

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10076 BALDWIN NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-1000

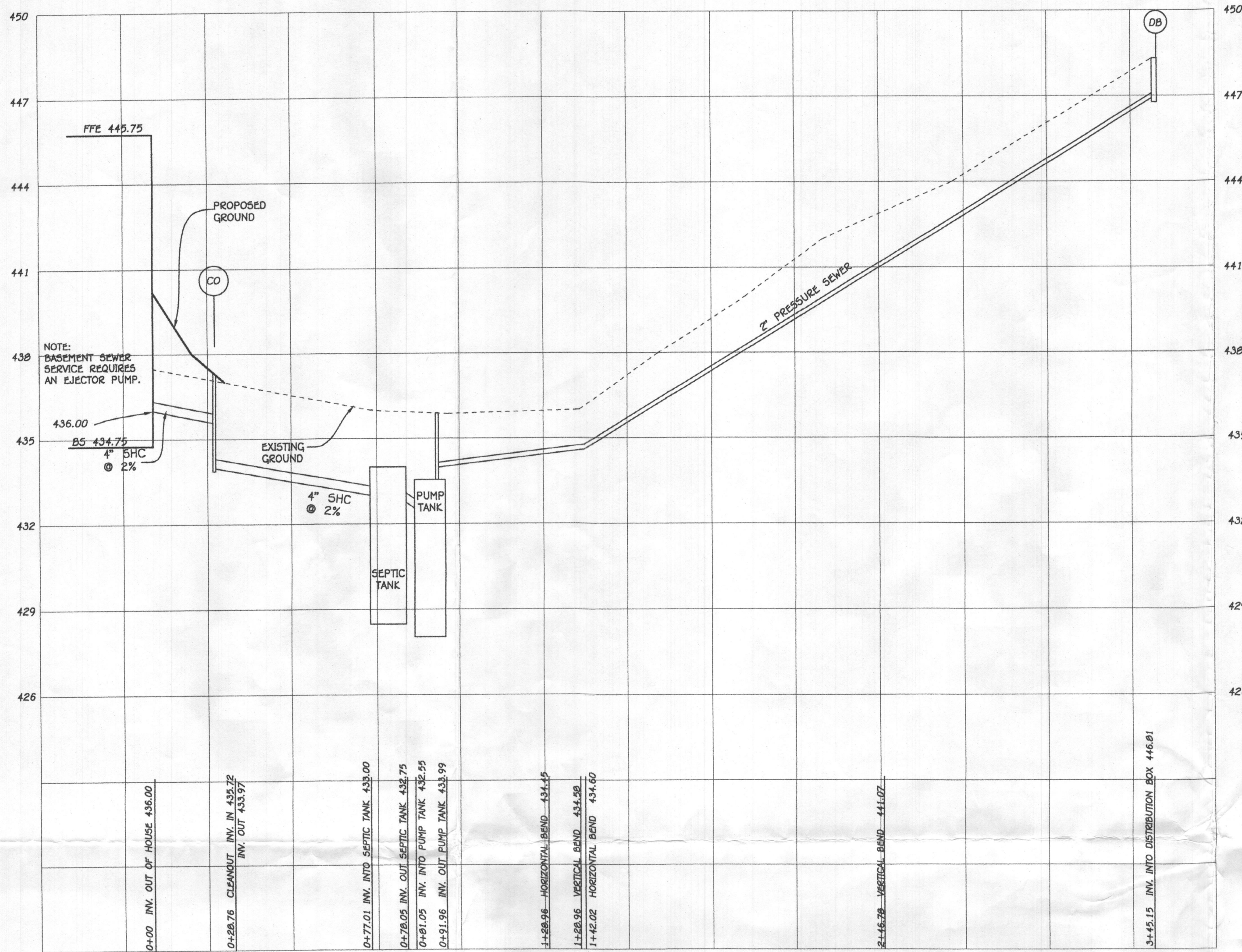


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2015.

Michael J. Vitek
Signature Of Professional Engineer
3/28/22
DATE

OWNER
PATRICK C. OQUERO FOR
8605 CROOKED TREE LANE
LAUREL MD 20724

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

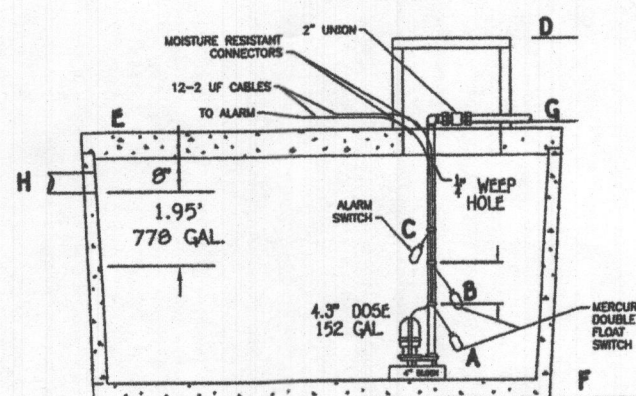


SEPTIC PROFILE
SCALE: 1"=30'

NOTE: SEPTIC SYSTEM ALARM WILL BE ON A CIRCUIT SEPARATE FROM ANY OTHER SEPTIC SYSTEM COMPONENTS OR ALARMS.

PUMP ALARMS / INFORMATION

- A PUMP OFF : 429.80
- B PUMP ON : 430.15
- C HIGH WATER ALARM : 430.52
- D TOP OF ACCESS COVER : 435.80
- E TOP OF TANK : 433.55
- F BOTTOM OF TANK : 427.97
- G DISCHARGE OUT OF TANK : 433.99
- H INVERT INTO TANK : 432.47



778 + 280.5 = 1,058 CuFt EMERGENCY STORAGE

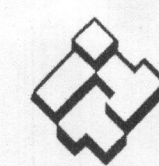
NOTE: THIS DETAIL IS TO BE USED FOR FLOAT CONFIGURATION ONLY - SEE DETAIL ABOVE FOR TANK DIMENSIONS AND ACTUAL LOCATION OF ACCESS COVER.

1 UNION @ 2 EQUIVALENT FEET = 2 LF
3 1/8" HB @ 4 EQUIVALENT FEET = 12 LF
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 267 LF

DYNAMIC HEAD
267 LF X 2.39 FT PER 100 LF OF 2" PIPE = 6.38 FT OF FRICTION HEAD
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 3.47 FT OF FRICTION HEAD
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV. OF SYSTEM = 12.82 FT (PUMP OUT IS THE HIGHEST POINT)
TOTAL DYNAMIC HEAD = 23.67 FT

1/6 DESIGN FLOW (900/6=150)
USE 152 GALLON DOSE (150 GALLON MINIMUM)
(RUN TIME = 3 MIN (50.67 GPM X 3 = 152 GALLON DOSE))

PUMP NEEDS TO HANDLE 50.67 GPM AT 23.67 FT OF HEAD
USE 0.5 HP (GOULD MODEL WE03M PUMP)



ITT

GOULDS PUMPS
Wastewater

APPLICATIONS

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

SPECIFICATIONS

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

MOTORS

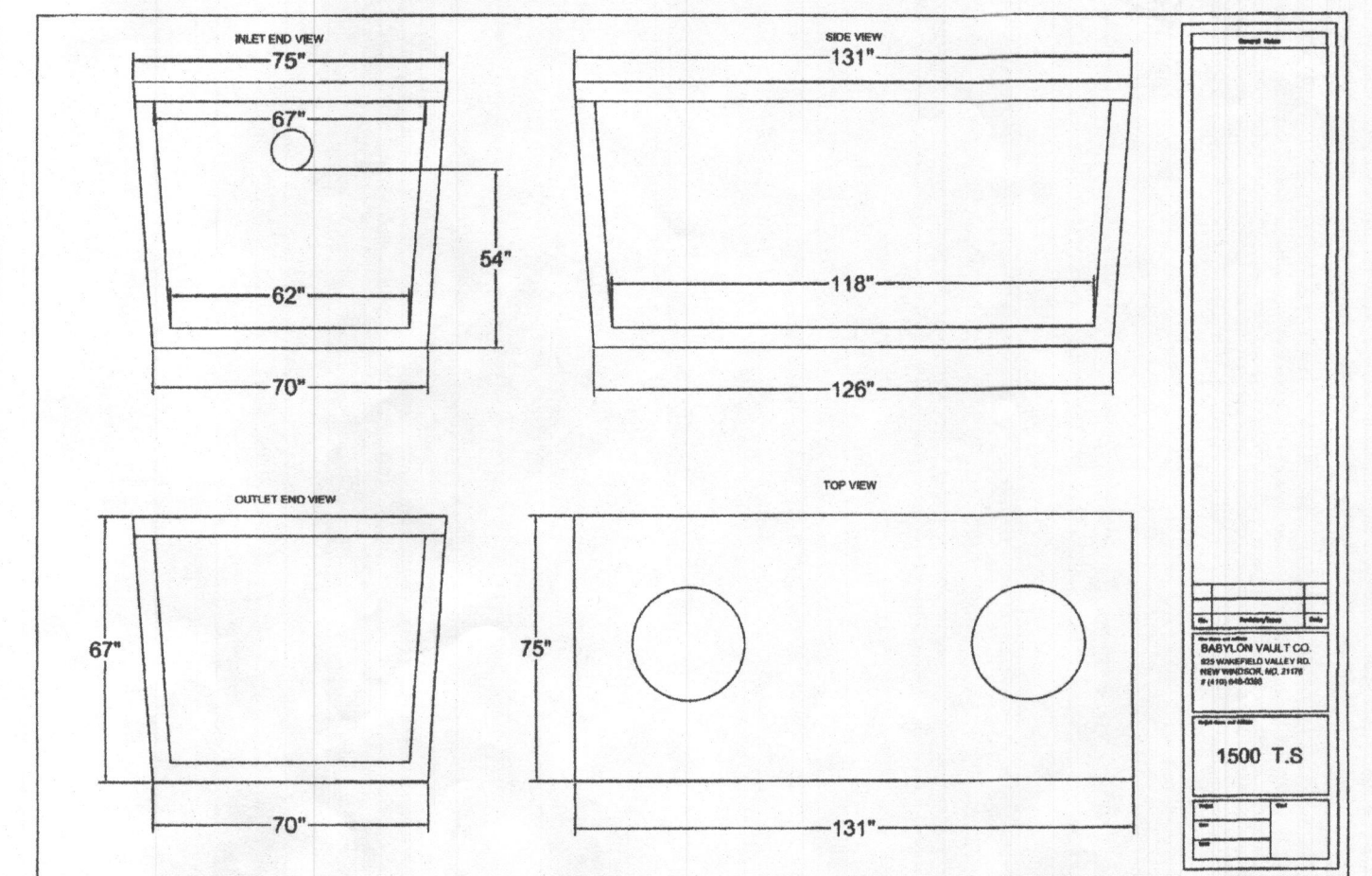
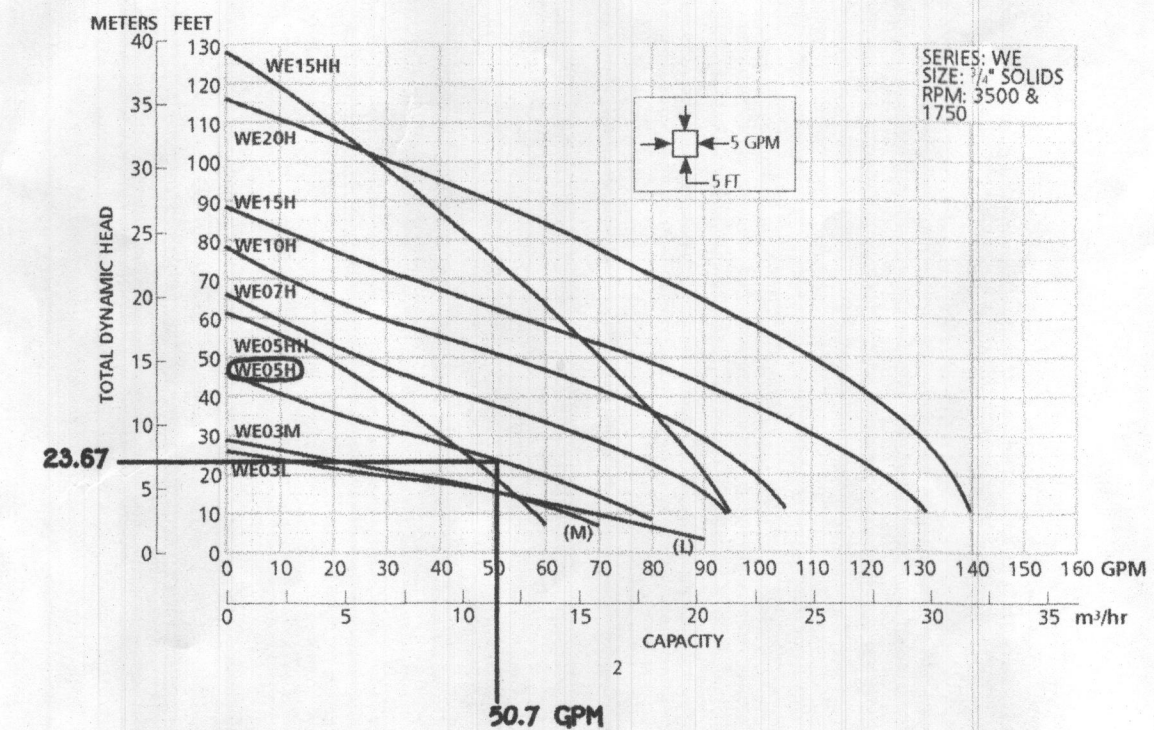
- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
 - Class B insulation on 1/2 - 1 HP models.
 - Class F insulation on 2 HP models.
- Single phase (60 Hz):
- Capacitor start motors for maximum starting torque.
 - Built-in overload with automatic reset.
 - SITOW or SITOW severe duty oil and water resistant power cords.

- 1/2 HP models have NEMA three prong grounding plugs.
 - 1 1/2 HP and larger units have bare lead cord ends.
- Three phase (60 Hz):
- Class 10 overload protection must be provided in separately ordered starter unit.
 - SITOW power cords all have bare lead cord ends.

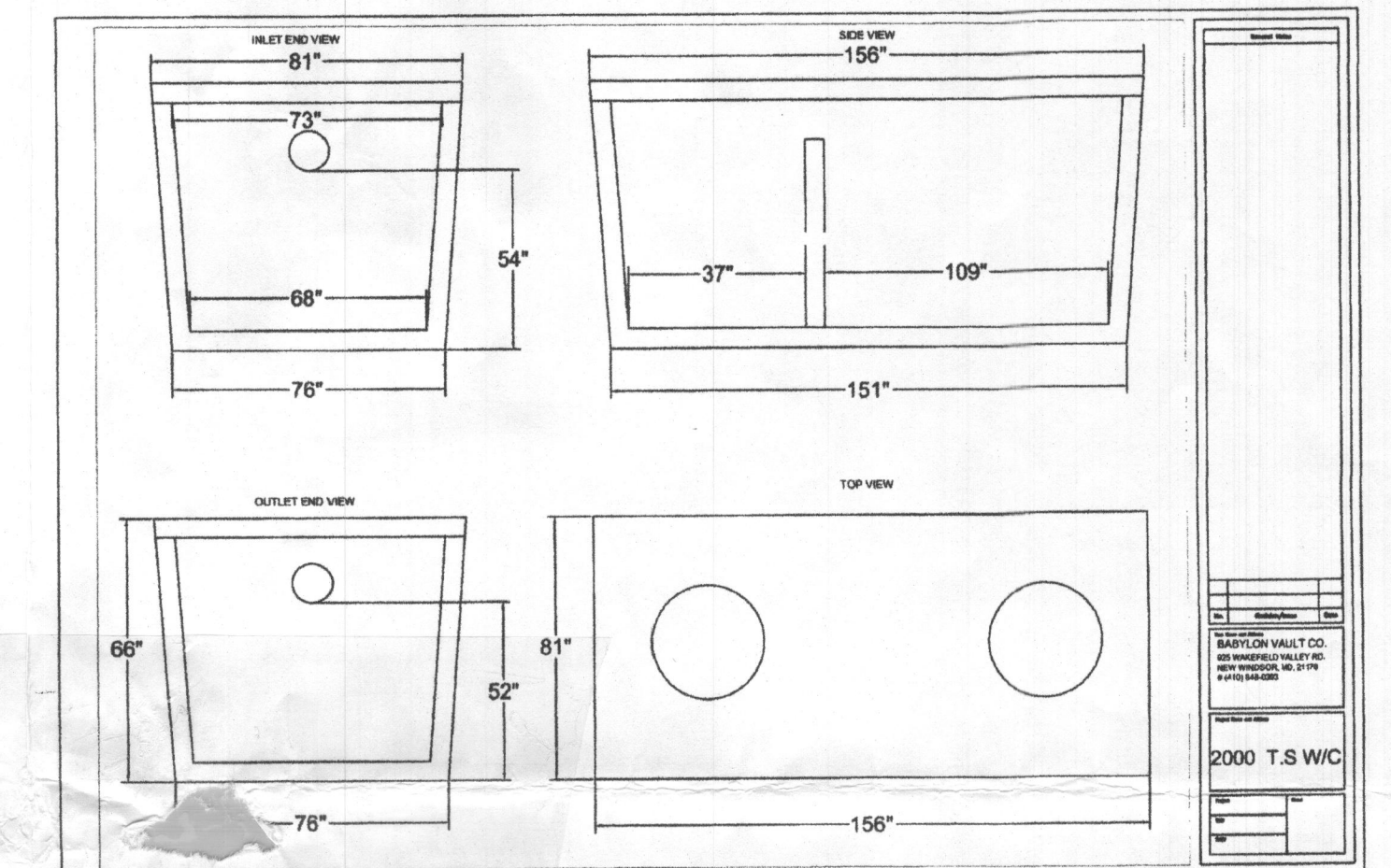
- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Compliant to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR33549
Goolds Pumps is ISO 9001 Registered.



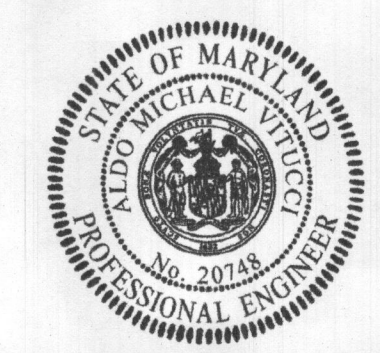
PUMP TANK DETAIL
NOT TO SCALE



SEPTIC TANK DETAIL
NOT TO SCALE

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Patrick C. O'Quinn
Signature of Professional Engineer
3/28/22
DATE

OWNER

PATRICK C. O'QUINN
8603 CROOKED TREE LANE
LAUREL MD 20724

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**

DUSTIN'S GOLDEN FIELDS
LOT 9

8030 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: MARCH 28, 2022
SHEET 2 OF 2

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10672 BALTIMORE NATIONAL PIKE
ELLETTTS CITY, MARYLAND 21042
(410) 461-8995