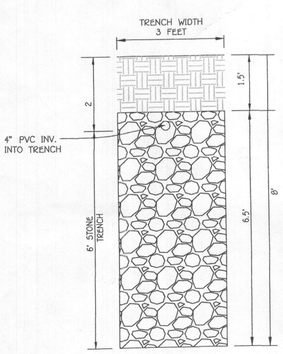
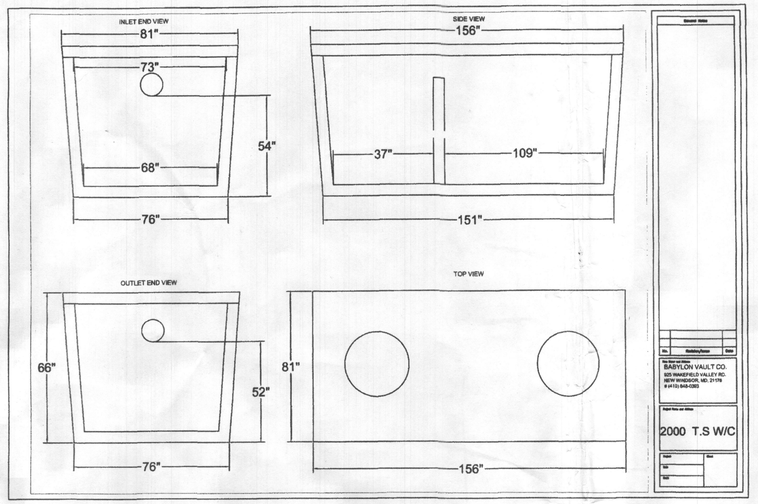
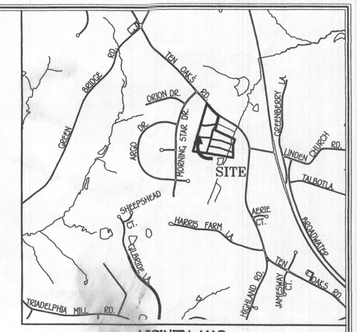
PLAN
SCALE: 1" = 30'

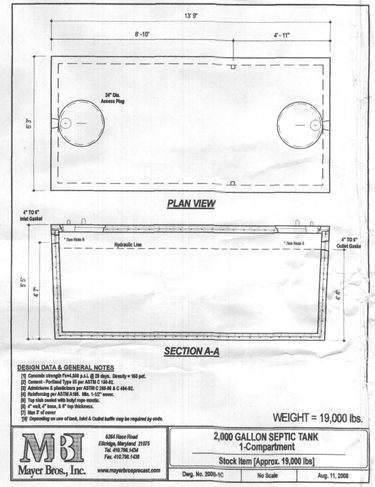


INITIAL TRENCH DETAIL
SCALE : 1"=2'





VICINITY MAP
SCALE: 1" = 2000'



PUMP TANK DETAIL
NOT TO SCALE

FFE 537.20
BSE 527.20
INV. OUT OF HOUSE = 524.10
PROP. GROUND AT CLEANOUT # 1 = 527
INV. INTO CLEANOUT = 523.65
INV. OUT OF CLEANOUT = 523.55
EX. GROUND AT SEPTIC TANK = 527.00
PROP. GRADE ABOVE SEPTIC TANK = 527.00
TOP OF SEPTIC TANK = 524.31
INV. INTO SEPTIC TANK = 523.31
INV. OUT OF SEPTIC TANK = 523.06
EX. GROUND AT PUMP TANK = 527.00
PROP. GRADE ABOVE PUMP TANK = 527.00
TOP OF PUMP TANK = 524.00
INV. INTO PUMP TANK = 523.00
INV. OUT OF PUMP TANK = 522.75
EX. GROUND AT DISTRIBUTION BOX = 548.00
INV. INTO DISTRIBUTION BOX = 546.10
INV. OUT OF DISTRIBUTION BOX = 546.00

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 548
INV. IN = 546
BOTTOM TRENCH = 540
TRENCH 2:
EX. GROUND ABOVE = 546
INV. IN = 544
BOTTOM TRENCH = 538

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 900 GPD / 1.2= 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x5))=.357
TRENCH LENGTH = 250 SF x 0.357 = 89.25 FEET
(USE 2 TRENCHES AT 44.63 L.F.)
TRENCH SPACING = 2D+W = ((2+5) + 3) = 13' USE 13'

1ST REPLACEMENT SYSTEM

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TRENCH LENGTH = 250 SF x 0.357 = 89.25 FEET
(USE 2 TRENCHES AT 44.63 L.F.)
TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 2.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 FEET
SF OF DRAINFIELD = 900 GPD / 1.2= 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x2.5))=.55
TRENCH LENGTH = 250 SF x 0.55 = 137.50 FEET
(USE 2 TRENCHES AT 68.75 L.F.)
TRENCH SPACING = 2D+W = ((2x2.5) + 3) = 8' USE 10'

1. ANY CHANGE TO THE LOCATIONS OR DESIGNS 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-15-0316 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.
6. THE FORCEMAIN LINE NEEDS TO HAVE MARKING TAPE IN SECTION INSIDE THE SDA

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: 02/22/2023.

ALDO MICHAEL VITUCCI — DATE 11/9/21

Approved Septic System Plan
Howard County Health Department
Hank Oswald — Signature
11/12/21 — Date

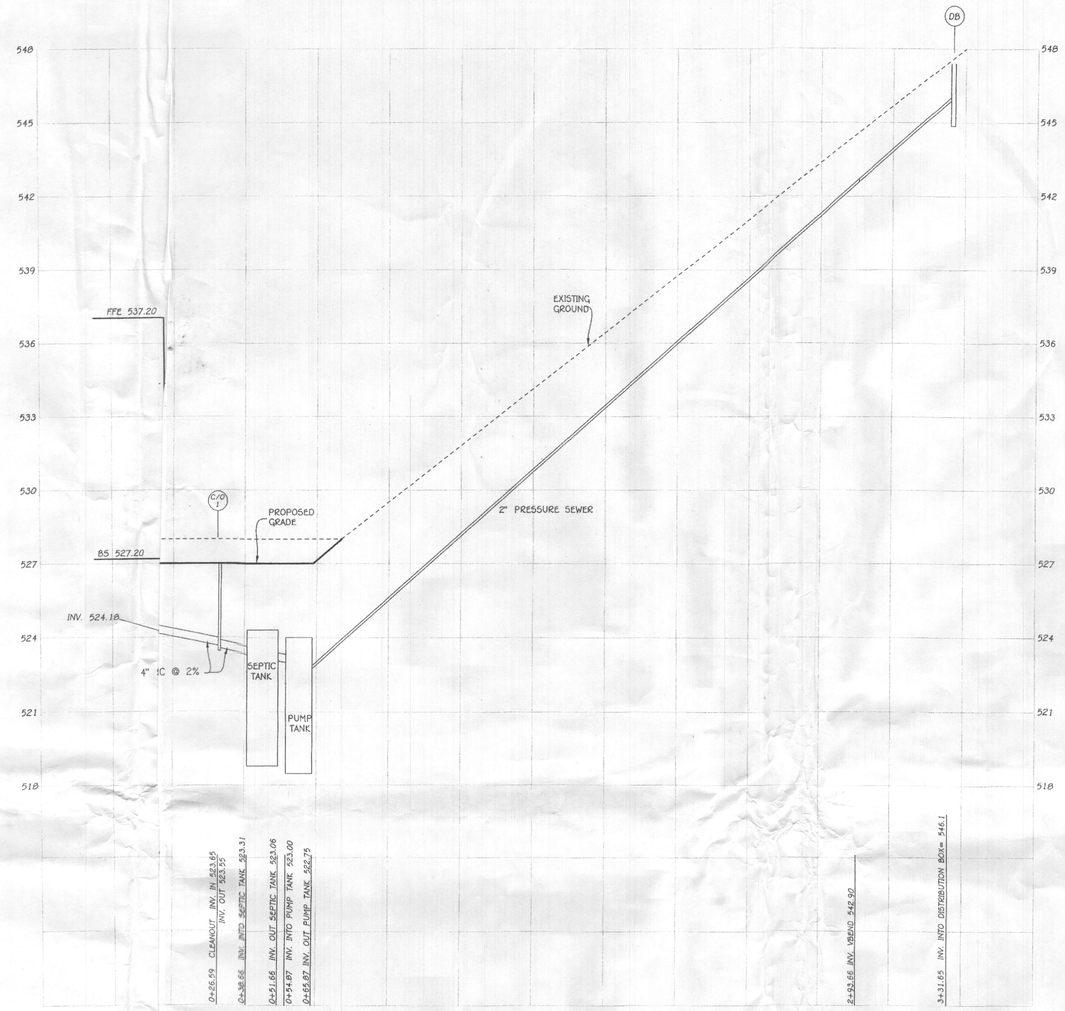
0' 30' 60' 120'
SCALE: 1" = 30'

SEPTIC SYSTEM INSTALLATION SITE PLAN
TEN OAKS FARM, LOT 6
5016 TEN OAKS ROAD

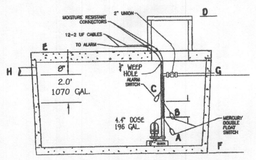
ZONING: RR-DEO
TAX MAP No. 28 GRID No. 14 PARCEL No. 140
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: OCTOBER 29, 2021
SHEET 1 OF 2

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

I:\2015\15007\Engineering\Dwgs\PI~ Plans\15007 Septic Installs.dwg, Lot 6, 11/5/2021 12:24:34 PM, 1:1



PUMP ALARMS / INFORMATION
- A PUMP OFF : 517.42
- B PUMP ON : 517.80
- C HIGH WATER ALARM : 518.25
- D TOP OF ACCESS COVER : 524.00
- E TOP OF TANK : 521.00
- F BOTTOM OF TANK : 515.25
- G DISCHARGE OUT OF TANK : 519.75
- H INVERT INTO TANK : 520.00



1070 + 200 = 1270 GALLONS 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.

SEPTIC PROFILE
SCALE: 1"=30'

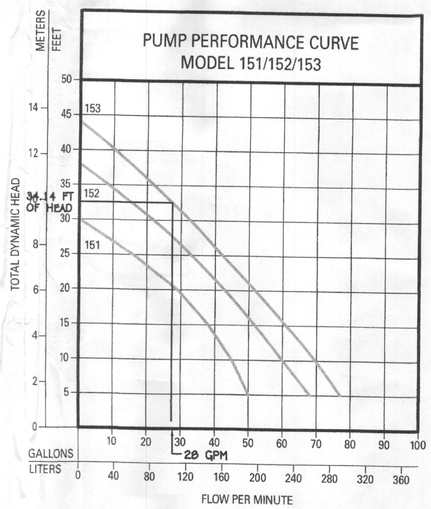
2"H. 40 PVC = 266 LF
1 UNION @ 2 EQUENT FEET = 2 LF
1 1/8 HB @ 4 EQUENT FEET = 4 LF
TOTAL LINEAR FEET 2" SCH. 40 PVC = 272 LF

DYNAMIC HEAD
271 X 2.05 FT PER 100 LF OF 2" PIPE = 5.58 FT OF FRICTION HEAD
VERTICAL FROM P OFF TO HIGH POINT IN PUMP CHAMBER = 2.33 FT OF FRICTION HEAD
HIGH POINT IN P CHAMBER TO HIGHEST ELEV OF SYSTEM = 26.23 FT (PUMP OUT IS THE HIGHEST POINT)

TOTAL DYNAMIC HEAD = 34.14 FT

1/6 DESIGN FLOW(00/6=150)
USE 194 GALLONS (150 GALLON MINIMUM)
(RUN TIME = 7 128 GPM X 7 = 196 GALLON DOSE)

PUMP NEEDS TO DLE 28 GPM AT 34.14 FT OF HEAD
USE 0.5 HP (ZOE MODEL 153 PUMP)



0' 30' 60' 120'

SCALE: 1" = 30'

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CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

STATE OF MARYLAND — ALDO MICHAEL VITUCCI — No. 20748 — PROFESSIONAL ENGINEER

PROFESSIONAL CERTIFICATION

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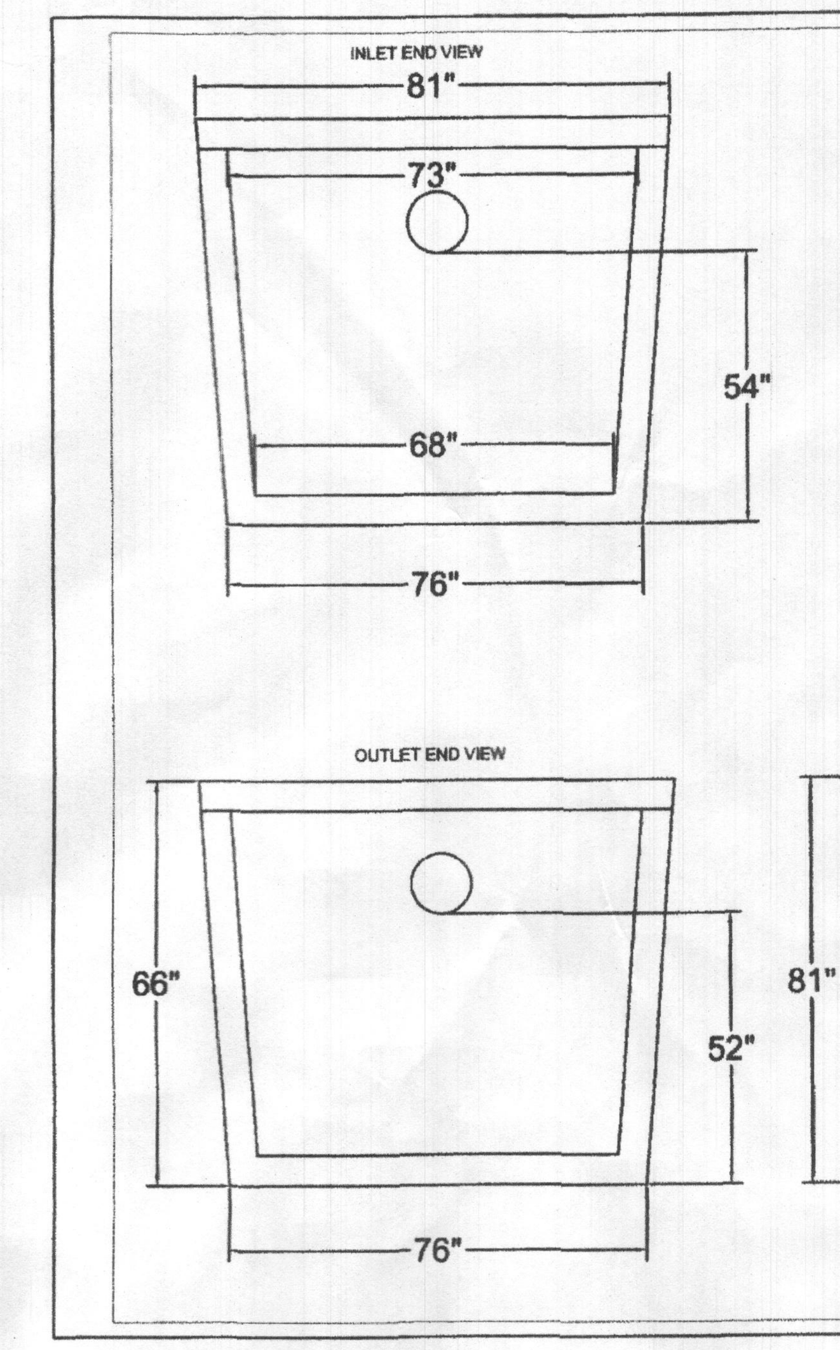
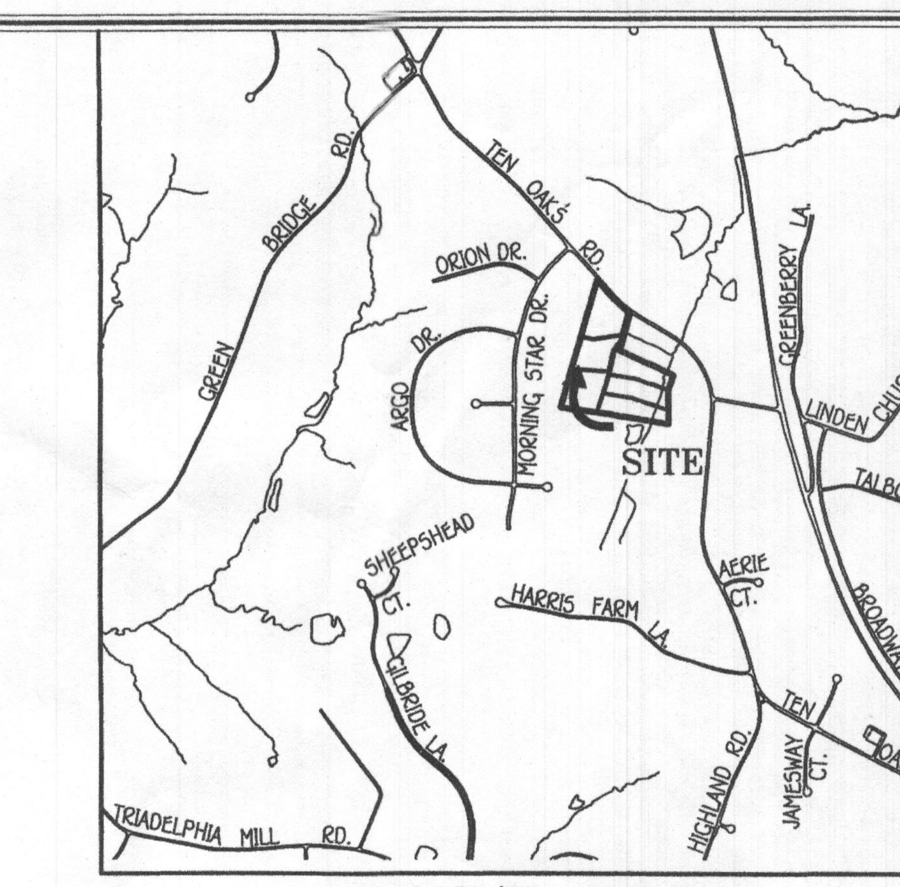
Signature Of Professional Engineer — DATE 11/9/21

SEPTIC SYSTEM INSTALLATION SITE PLAN
TEN OAKS FARM, LOT 6
5016 TEN OAKS ROAD

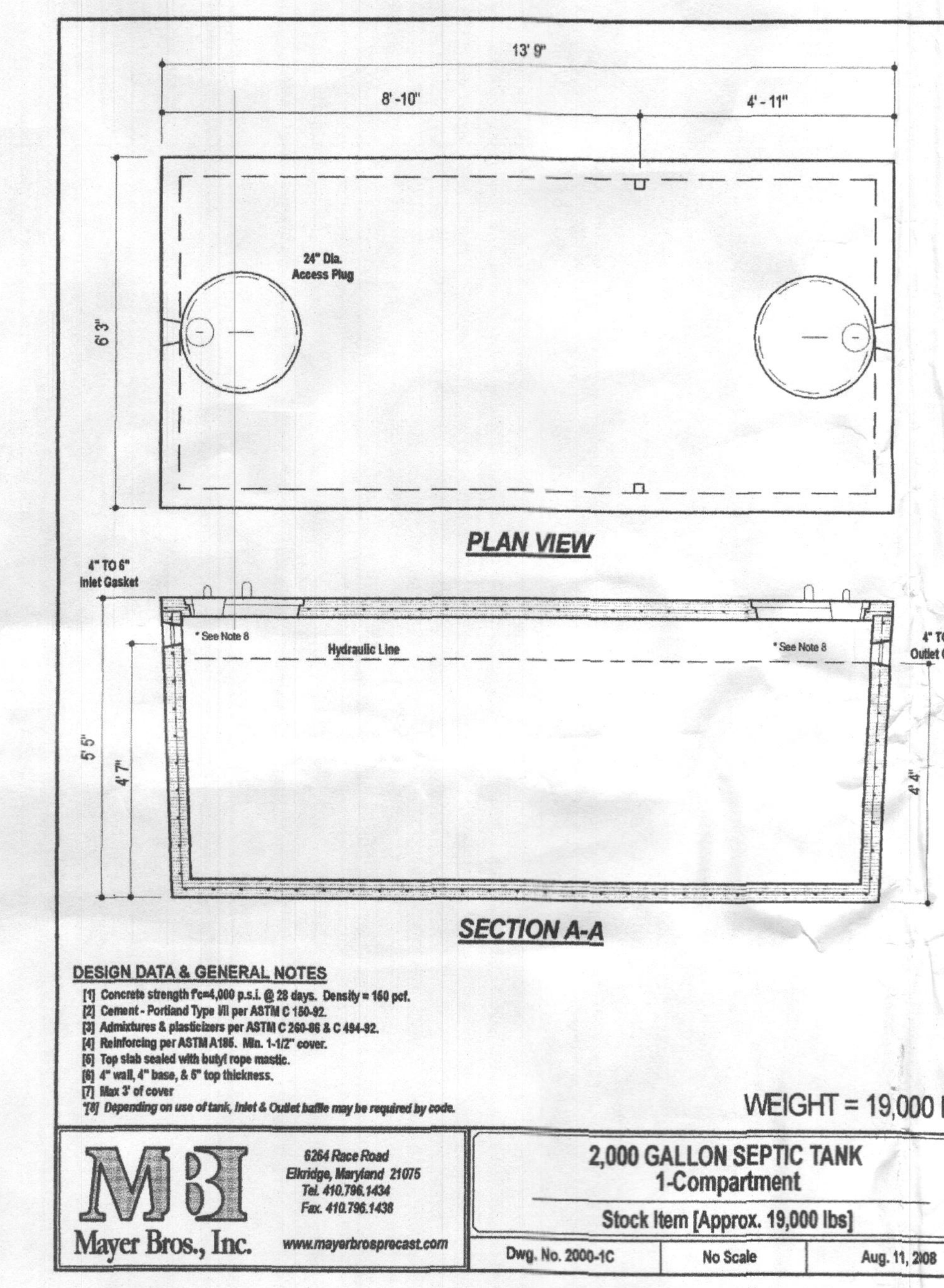
ZONING: RR-DEO
TAX MAP No. 28 GRID No. 14 PARCEL No. 140
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: OCTOBER 20, 2021
SHEET 2 OF 2

PLAN
SCALE: 1" = 30'





VICINITY MAP
SCALE: 1" = 2000'



PUMP TANK DETAIL
NOT TO SCALE

FFE 537.20
BSE 527.20
INV. OUT OF HOUSE = 524.18
PROP. GROUND AT CLEANOUT # 1 = 527
INV. INTO CLEANOUT = 523.65
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EX. GROUND AT SEPTIC TANK = 527.00
PROP. GRADE ABOVE SEPTIC TANK = 527.00
TOP OF SEPTIC TANK = 524.31
INV. INTO SEPTIC TANK = 523.31
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INV. IN = 544
BOTTOM TRENCH = 538

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 2.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 FEET
SF OF DRAINFIELD = 900 GPD / 1.2= 750 SF
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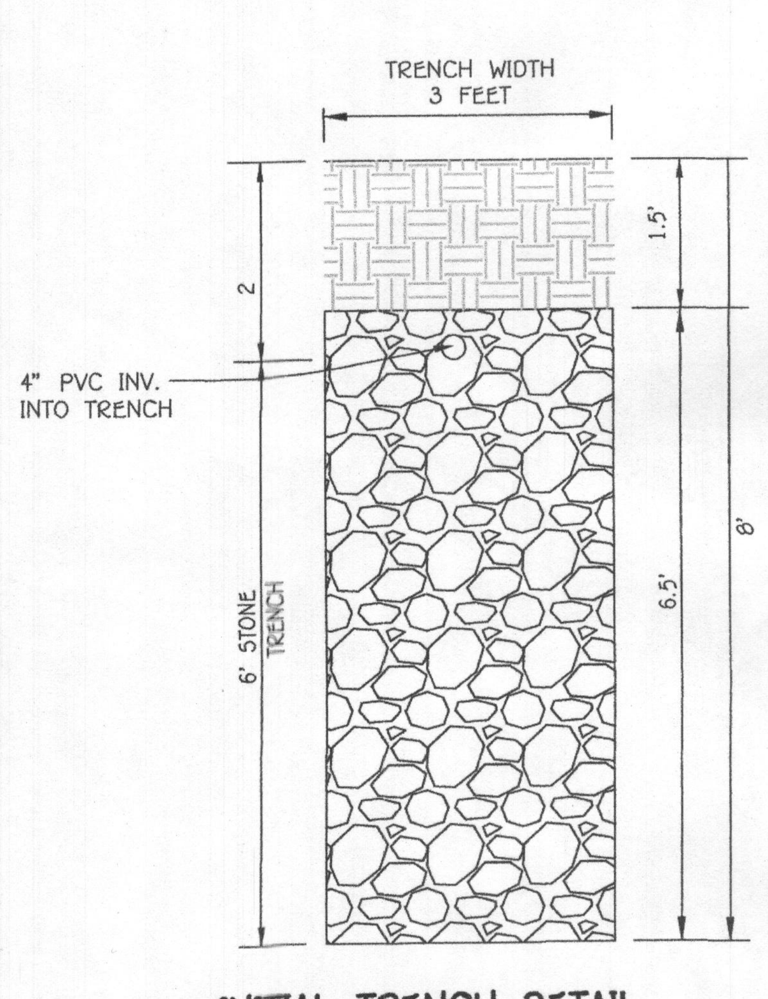

INITIAL TRENCH DETAIL
SCALE : 1"=2'

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4. THE WELL HO-15-0316 HAS BEEN LD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SEPTIC SYSTEMS LOIED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLSID/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
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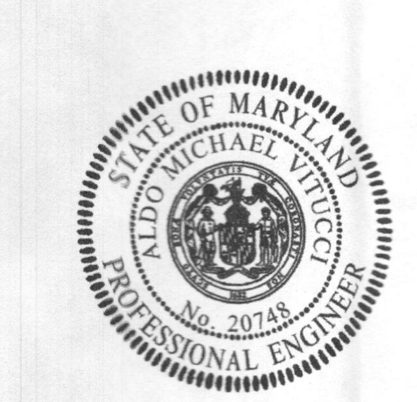

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ALDO MICHAEL VITUCCI — 11/9/21
DATE

Approved Septic System Plan
Howard County Health Department
Hank Oswald 11/10/21
Signature Date

0' 30' 60' 120'
SCALE: 1" = 30'

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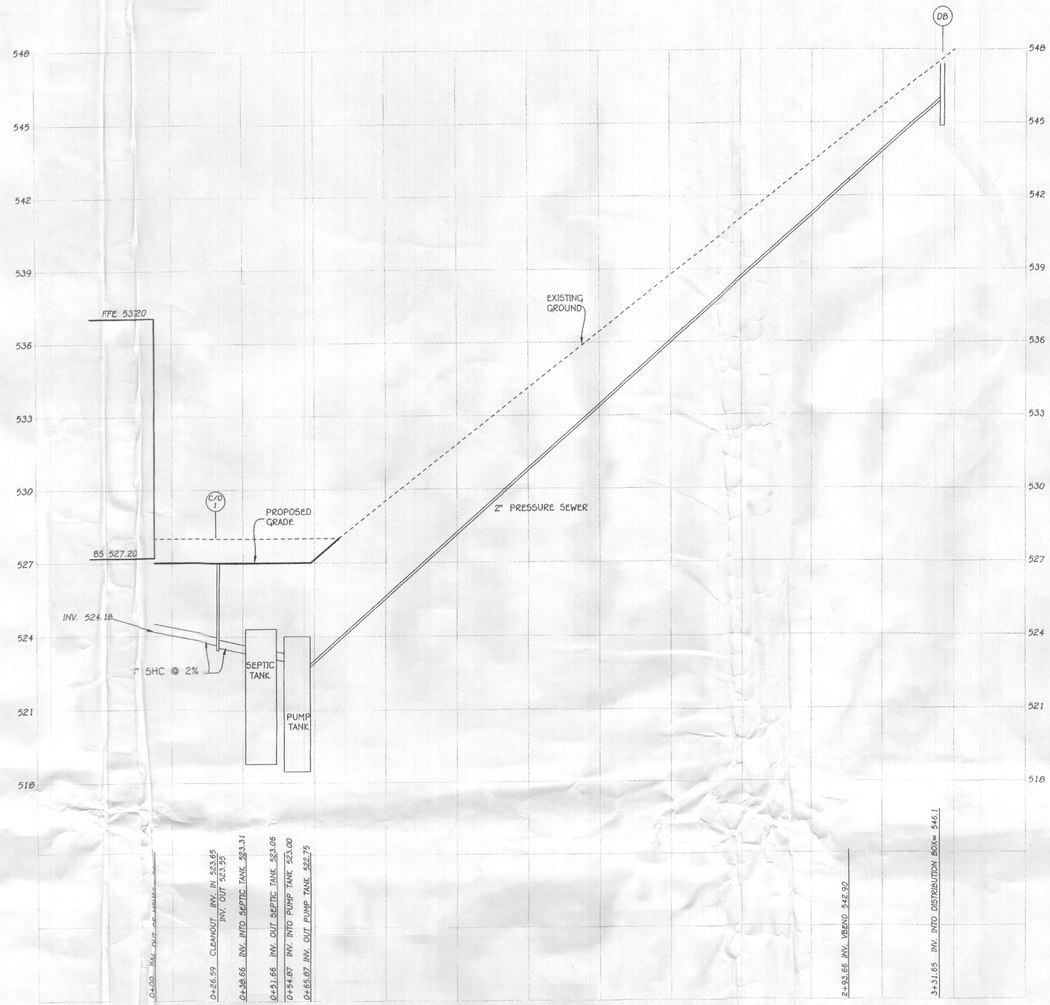
SEPTIC SYSTEM INSTALLATION SITE PLAN
TEN OAKS FARM, LOT 6
5016 TEN OAKS ROAD

ZONING: RR-DEO
TAX MAP No. 28 GRID No. 14 PARCEL No. 140
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: OCTOBER 29, 2021
SHEET 1 OF 2



SEPTIC PROFILE

SCALE: 1"=30'

PUMP ALARMS / INFORMATION
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- B PUMP ON : 517.80
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- G DISCHARGE OUT OF TANK : 519.75
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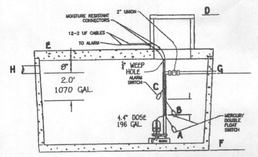

1070 + 200 = 1270 GALLONS EMERGENCY STORAGE

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

2" SCH. 40 PVC = 266 LF
1 UNION @ 2 EQUIVALENT FEET = 2 LF
1 1/8 HB @ 4 EQUIVALENT FEET = 4 LF
TOTAL LINEAR FEET OF 2" SCH. 40 PVC = 272 LF

DYNAMIC HEAD

272 LF X 2.05 FT PER 100 LF OF 2" PIPE = 5.58 FT OF FRICTION HEAD
VERTICAL FROM PUMP OFF TO HIGH POINT IN PUMP CHAMBER = 2.33 FT OF FRICTION HEAD
HIGH POINT IN PUMP CHAMBER TO HIGHEST ELEV OF SYSTEM = 26.23 FT (PUMP OUT IS THE HIGHEST POINT)

TOTAL DYNAMIC HEAD = 34.14 FT

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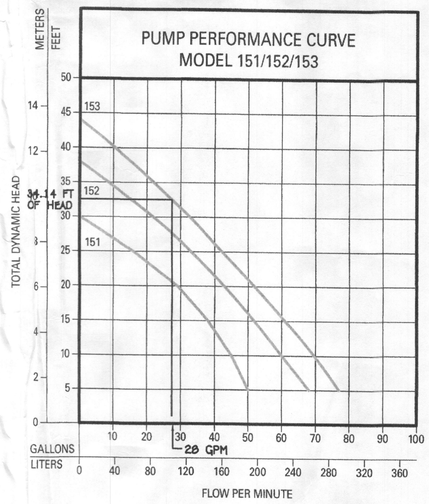
USE 194 GALLON DOSE (150 GALLON MINIMUM)
(RUN TIME = 7 MIN (28 GPM X 7 = 196 GALLON DOSE)

PUMP NEEDS TO HANDLE 28 GPM AT 34.14 FT OF HEAD
USE 0.5 HP (ZOELLER MODEL 153 PUMP)



0' 30' 60' 120'

SCALE: 1" = 30'

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STATE OF MARYLAND
ALDO MICHAEL VITTUCCI
No. 20748
PROFESSIONAL ENGINEER

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Signature Of Professional Engineer — DATE 11/9/21

SEPTIC SYSTEM INSTALLATION SITE PLAN
TEN OAKS FARM, LOT 6
5016 TEN OAKS ROAD

ZONING: RR-DEO
TAX MAP No. 28 GRID No. 14 PARCEL No. 140
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: OCTOBER 20, 2021
SHEET 2 OF 2

The Requirements § 3-108, The Real Property Article, Annotated Code Of Maryland, 1988 Replacement Volume, (As Supplemented) As Far As They Relate To The Making Of This Plat And The Setting Of Markers Have Been Complied With.

Mark L. Robel — 4/25/18
Mark L. Robel, P.L.S. #339 (Property Line Surveyor) — Date

Patricia M. Collins — 4/25/18
Patricia M. Collins, Co-Personal Representative Of The Estate Of Patricia L. Shepherd — Date

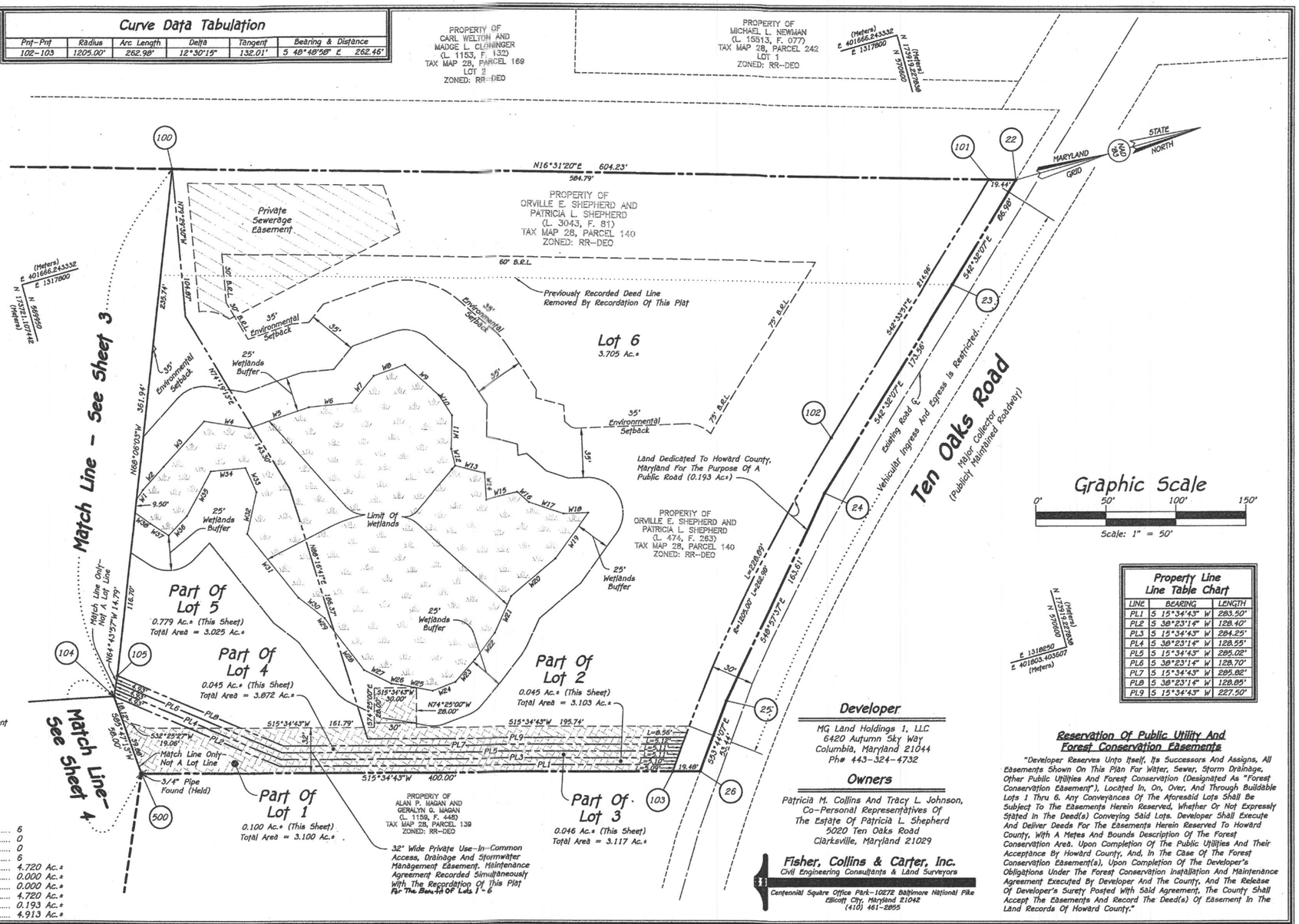
Tracy L. Johnson — 4/25/18
Tracy L. Johnson, Co-Personal Representative Of The Estate Of Patricia L. Shepherd — Date

Curve Data Tabulation

Pnt-Pnt	Radius	Arc Length	Delta	Tangent	Bearing & Distance
102-103	1205.00'	262.98'	12°30'15"	132.01'	S 48°48'58" E 262.46'

Limit Of Wetlands Line Table Chart

LINE	BEARING	LENGTH
W1	N 40°40'45" W	8.09'
W2	N 32°00'18" W	22.26'
W3	N 32°20'36" W	43.19'
W4	N 24°06'35" E	32.37'
W5	N 02°57'03" W	45.45'
W6	N 10°06'00" E	30.79'
W7	N 35°09'09" W	24.53'
W8	N 03°30'55" W	23.61'
W9	N 56°45'19" E	32.46'
W10	N 72°13'27" E	17.21'
W11	S 72°49'06" E	23.77'
W12	S 87°46'11" E	12.17'
W13	N 30°06'54" E	21.67'
W14	S 77°58'06" E	19.09'
W15	N 02°49'22" E	22.97'
W16	N 56°29'55" E	11.19'
W17	N 33°44'53" E	26.05'
W18	N 13°20'15" E	17.74'
W19	S 38°33'33" E	40.14'
W20	S 24°29'27" E	41.61'
W21	S 49°40'47" E	28.39'
W22	S 36°36'52" E	23.62'
W23	S 32°53'07" E	21.07'
W24	S 05°03'14" E	17.30'
W25	S 25°40'02" W	22.97'
W26	S 23°11'52" W	7.02'
W27	S 41°55'54" W	21.82'
W28	S 68°06'00" W	39.22'
W29	S 70°48'43" W	7.28'
W30	S 53°32'56" W	23.89'
W31	S 66°57'32" W	58.61'
W32	N 81°35'27" W	30.32'
W33	S 80°34'48" W	18.79'
W34	S 09°57'18" W	24.74'
W35	S 45°37'24" E	36.06'
W36	S 30°41'42" E	18.88'
W37	S 48°09'57" W	15.42'
W38	S 50°44'02" W	13.37'



Property Line Line Table Chart

LINE	BEARING	LENGTH
PL1	S 15°34'43" W	283.50'
PL2	S 38°23'14" W	128.40'
PL3	S 15°34'43" W	284.25'
PL4	S 38°23'14" W	128.55'
PL5	S 15°34'43" W	285.02'
PL6	S 38°23'14" W	128.70'
PL7	S 15°34'43" W	285.82'
PL8	S 38°23'14" W	128.85'
PL9	S 15°34'43" W	227.50'

Legend

- Limits Of Wetlands
- 32' Wide Private Use-In-Common Access, Driveway And Stormwater Management Easement
- Public 100 Year Floodplain, Drainage & Utility Easement
- Public Forest Conservation Easement (Retention)
- Public Forest Conservation Easement (Reforestation)
- Previously Recorded Deed Line Removed By Recordation Of This Plat

Area Tabulation For Sheet 2

TOTAL NUMBER OF BUILDABLE LOTS TO BE RECORDED	6
TOTAL NUMBER OF OPEN SPACE LOTS TO BE RECORDED	0
TOTAL NUMBER OF PARCELS TO BE RECORDED	0
TOTAL NUMBER OF LOTS/PARCELS TO BE RECORDED	6
TOTAL AREA OF BUILDABLE LOTS TO BE RECORDED	4.720 Ac.±
TOTAL AREA OF OPEN SPACE LOTS TO BE RECORDED	0.000 Ac.±
TOTAL AREA OF PARCELS TO BE RECORDED	0.000 Ac.±
TOTAL AREA OF LOTS/PARCELS TO BE RECORDED	4.720 Ac.±
TOTAL AREA OF ROADWAY TO BE RECORDED	0.193 Ac.±
TOTAL AREA TO BE RECORDED	4.913 Ac.±

Developer

MG Land Holdings 1, LLC
6420 Autumn Sky Way
Columbia, Maryland 21044
Ph# 443-324-4732

Owners

Patricia M. Collins And Tracy L. Johnson, Co-Personal Representatives Of The Estate Of Patricia L. Shepherd
5020 Ten Oaks Road
Clarksville, Maryland 21029

Fisher, Collins & Carter, Inc.
Civil Engineering Consultants & Land Surveyors
Centennial Square Office Park-10272 Baltimore National Pike
Ellicott City, Maryland 21042
(410) 461-2855

Reservation Of Public Utility And Forest Conservation Easements

"Developer Reserves Unto Itself, Its Successors And Assigns, All Easements Shown On This Plan For Water, Sewer, Storm Drainage, Other Public Utilities And Forest Conservation (Designated As "Forest Conservation Easement"), Located In, On, Over, And Through Buildable Lots 1 Thru 6. Any Conveyances Of The Aforesaid Lots Shall Be Subject To The Easements Herein Reserved, Whether Or Not Expressly Stated In The Deed(s) Conveying Said Lots. Developer Shall Execute And Deliver Deeds For The Easements Herein Reserved To Howard County, With A Metes And Bounds Description Of The Forest Conservation Area. Upon Completion Of The Public Utilities And Their Acceptance By Howard County, And, In The Case Of The Forest Conservation Easement(s), Upon Completion Of The Developer's Obligations Under The Forest Conservation Installation And Maintenance Agreement Executed By Developer And The County, And The Release Of Developer's Surety Posted With Said Agreement, The County Shall Accept The Easements And Record The Deed(s) Of Easement In The Land Records Of Howard County."

APPROVED: For Private Water And Private Sewerage Systems. Howard County Health Department.

Bradley for Maura Rossman — 10/12/2018
Howard County Health Officer — Date

APPROVED: Howard County Department Of Planning And Zoning.

Chief, Development Engineering Division — 10.18.18 Date

Director — 10-23-18 Date

Owner's Certificate

Patricia M. Collins And Tracy L. Johnson, Co-Personal Representatives Of The Estate Of Patricia L. Shepherd, Owners Of The Property Shown And Described Hereon, Hereby Adopt This Plan Of Subdivision, And In Consideration Of The Approval Of This Final Plat By The Department Of Planning And Zoning, Establish The Minimum Building Restriction Lines And Grant Unto Howard County, Maryland, Its Successors And Assigns; (1) The Right To Lay, Construct And Maintain Sewers, Drains, Water Pipes And Other Municipal Utilities And Services In And Under All Roads And Street Rights-Of-Way And The Specific Easement Areas Shown Hereon; (2) The Right To Require Dedication For Public Use The Beds Of The Streets And/Or Roads And Floodplains And Open Space Where Applicable And For Good And Other Valuable Consideration, Hereby Grant The Right And Option To Howard County To Acquire The Fee Simple Title To The Beds Of The Streets And/Or Roads And Floodplains, Storm Drainage Facilities And Open Space Where Applicable; (3) The Right To Require Dedication Of Waterways And Drainage Easements For The Specific Purpose Of Their Construction, Repair And Maintenance; And (4) That No Building Or Similar Structure Of Any Kind Shall Be Erected On Or Over The Said Easements And Rights-Of-Way. Witness My Hand This 25th Day Of April, 2018.

Patricia M. Collins, Co-Personal Representative Of The Estate Of Patricia L. Shepherd — Witness

Tracy L. Johnson, Co-Personal Representative Of The Estate Of Patricia L. Shepherd — Witness

Surveyor's Certificate

I Hereby Certify To The Best Of My Knowledge That The Final Plat Shown Hereon Is Correct. That It Was 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; That It Is A Subdivision Comprised Of (1) All Of The Lands Conveyed By Frank F. Willson And Linda W. Willson, Edwin G. Willson And Betty H. Willson, Robert G. Johnsen And Nellie L. Johnsen And Robert Behrendt To Orville E. Shepherd (Now Deceased) And Patricia L. Shepherd (Now Deceased) By Deed Dated August 12, 1967 And Recorded Among The Land Records Of Howard County, Maryland In Liber 474 At Folio 263; And (2) All The Lands Conveyed By Wayne E. Johnson And Tracy L. Johnson To Orville E. Shepherd (Now Deceased) And Patricia L. Shepherd (Now Deceased) By Deed Dated September 25, 1993 And Recorded Among The Aforesaid Land Records In Liber 3043 At Folio 81; And That All Monuments Are In Place Or Will Be In Place Prior To The Acceptance Of The Streets In The Subdivision By Howard County, Maryland As Shown, In Accordance With The Annotated Code Of Maryland, As Amended.

STATE OF MARYLAND — MARK L. ROBEL — PROPERTY LINE SURVEYOR — No. 339

Mark L. Robel — 4/25/18
Mark L. Robel, Property Line Surveyor No. 339 — Date
Expiration Date: October 4, 2018

RECORDED AS PLAT No. 24786 ON 10/26/18
AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.

Ten Oaks Farm

Lots 1 Thru 6

Zoned: RR-DEO
Tax Map: 28 Grid: 14 Parcel: 140
Fifth Election District - Howard County, Maryland
Date: April 25, 2018 Scale: 1" = 50' Sheet 2 Of 5

F-16-123

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