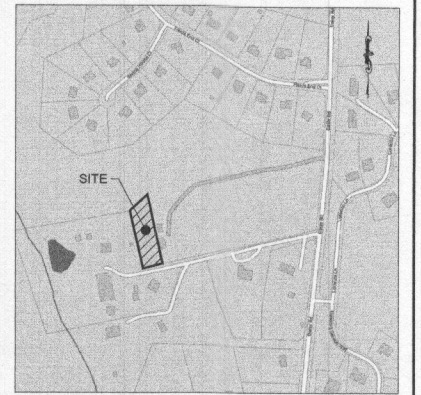
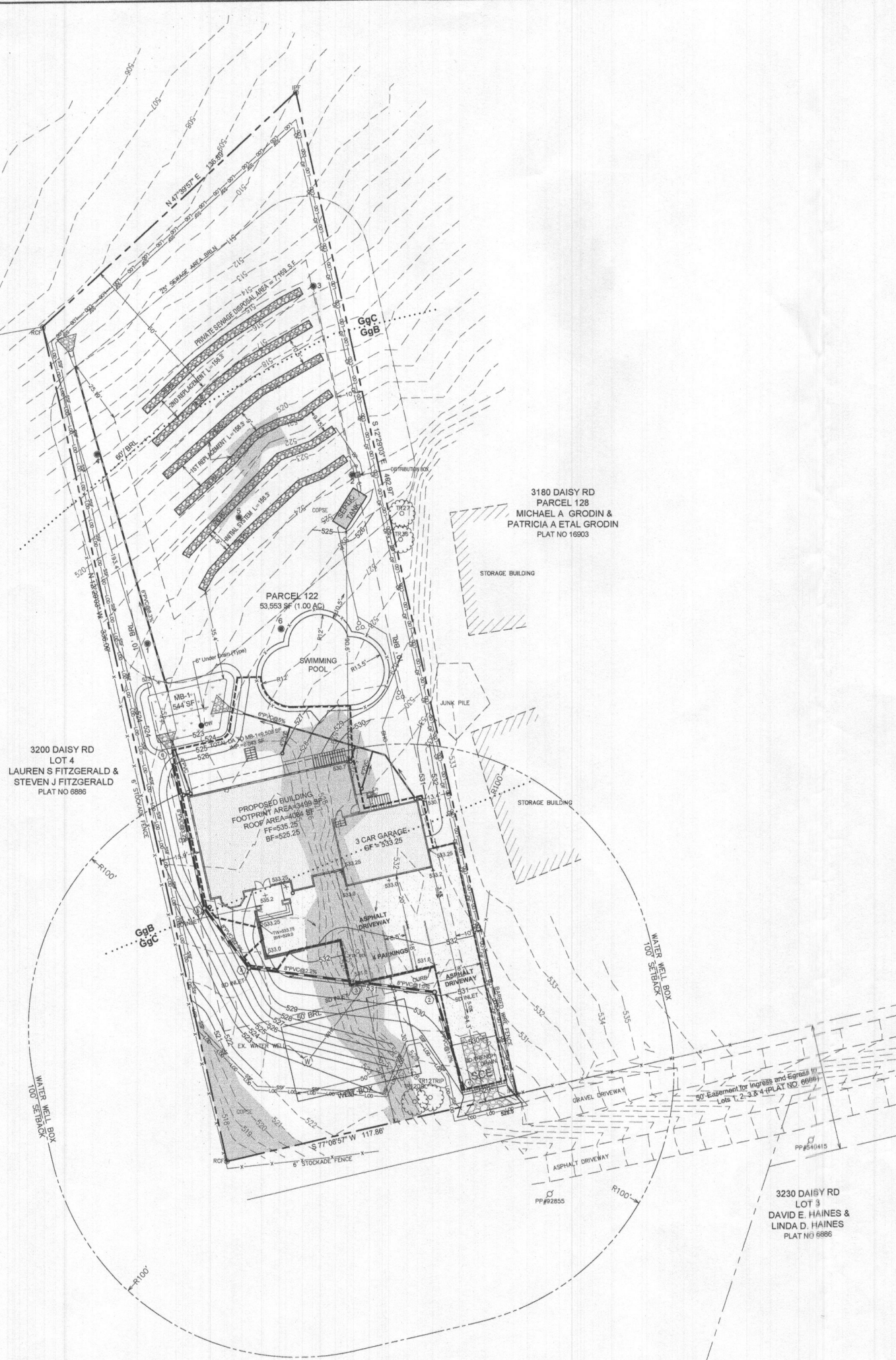


3180 DAISY RD
PARCEL 128
MICHAEL A GRODIN &
PATRICIA A ETAL GRODIN
PLAT NO 16903



VICINITY MAP SCALE: 1"=500'

GENERAL NOTES

- Project Name: DAISY ROAD - 1.00A, DAISY ROAD
- Project Address: 3190 DAISY RD, WOODBINE, MD 21797
- Owner: ARINBORO FUND/LAYO EUNICE
- Net Tract Area: 43,553.11 S.F. (1.00AC.)
- Parcel #: 122
- Map: 20
- Grid: 0006
- Liber: 20158
- Folio: 00195
- Tax Account #: 346033
- Election District Number: 4
- Zoning: RC-DEO
- Existing Use: Residential (Single Family)
- Proposed Use: Residential (Single Family)
- Setbacks:

	Required	Provided
Front	50'	84.3'
Rear	25'	153.4'
Sides	10'	15.9' & 13.4'
- The Topography information shown hereon is based on field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING, INC., 6024 Clearmont Dr., Owings, MD 20726. It has been verified to accurately represent the relative changes on the subject property.
- The potable water wells must be installed for 4, and the Well Completion Reports approved by the Health Department, prior to Building Permit Approval for the respective lots.
- Underground well and sewerage components shown hereon are based on available public records and visible surface evidence, no subsurface exploration has been performed to verify their location.
- This plot was performed without the benefit of a title report. It does not show every matter affecting ownership and use, nor every matter restricting the ownership on use of the property.

NOTE
LIMIT OF DISTURBANCE = 39,620 S.F.

NOTE
NO GRADING OR PLACEMENT OF DIRT/EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

SITE GRADING PLAN

DAISY ROAD - 1.00A, DAISY RD

PROJECT ADDRESS: 3190 DAISY ROAD, WOODBINE, MD 21797

OWNER/APPLICANT INFO: ARINBORO FUND/LAYO EUNICE

MAP:	0020	ZONING:	RC-DEO
GRID:	0006	LOT #:	28138
PLAT #:	346033	LIBER:	20158
TAX ACC.:	346033	FOLIO:	00195
PARCEL:	0122		

4th DISTRICT
HOWARD COUNTY, MD

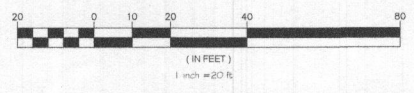
RAZTEC ASSOCIATES, INC.
civil engineers & planners
341 W. Patrick St., Frederick, MD 21701
Tel (301) 775-4394
email: razteceng@comcast.net

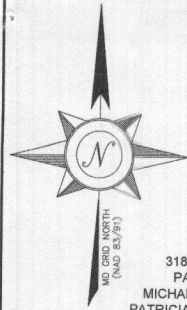
PROFESSIONAL REVIEW STATEMENT
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22742 EXPIRES: JUNE 15, 2024

LEGEND

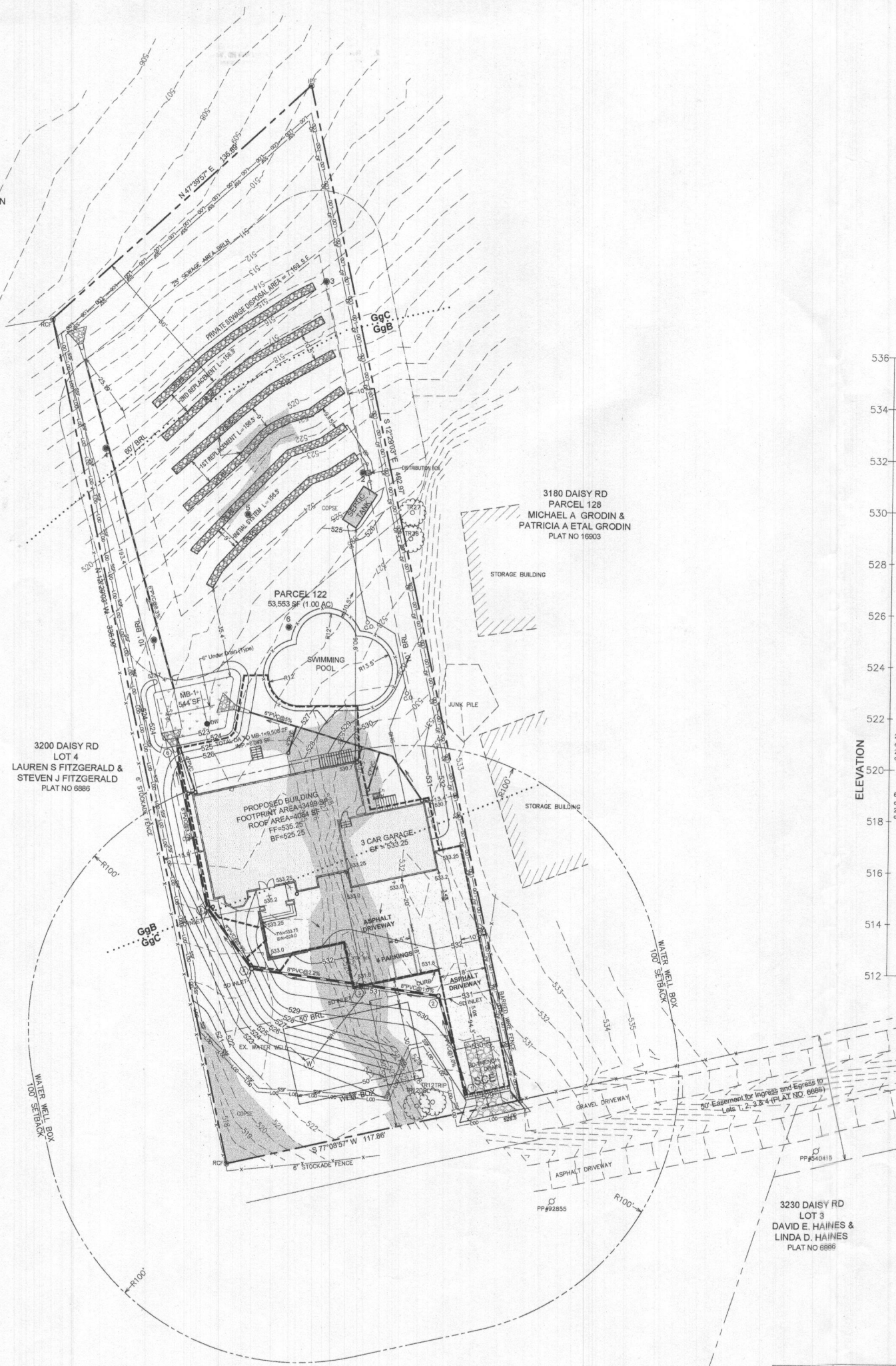
FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES	[Symbol]	PROPOSED END SECTION / ASPHALT	[Symbol]
PROPOSED STRUCTURES	[Symbol]	PROP. STORM DRAIN PIPE	[Symbol]
BUILDING RESTRICTION LINE	[Symbol]	PROPOSED DOWN-SPOUT	[Symbol]
PROPERTY BOUNDARY LINE	[Symbol]	EXISTING WATER WELL	[Symbol]
EXISTING TOPOGRAPHY	[Symbol]	PROP. WATER HOUSE CONNECTION	[Symbol]
PROPOSED GRADING	[Symbol]	PROP. SEWER HOUSE CONNECTION	[Symbol]
EXISTING TREE LINE	[Symbol]	MICRO SO-RETENTION	[Symbol]
EXISTING FENCE	[Symbol]	OBSERVATION WELL	[Symbol]
LIMIT OF DISTURBANCE	[Symbol]	PROPOSED STORM DRAIN INLET	[Symbol]
LIMIT OF DISTURBANCE TREE PROTECTION FENCE	[Symbol]	PROPOSED SUPER BILT FENCE	[Symbol]
OVERHEAD ELECTRIC WIRE	[Symbol]	PROP. TREE PROTECTION FENCE	[Symbol]
ROOT PRUNING	[Symbol]	TO BE REMOVED (TBR)	[Symbol]
PROP. ELECTRICAL CONNECTION	[Symbol]	TO BE SAVED (TBS)	[Symbol]
DRAINAGE AREA LINE	[Symbol]	PROP. SEWER DISTRIBUTION BOX	[Symbol]
EXISTING TREE (TO BE SAVED)	[Symbol]	PROP. SEWER CLEANOUT	[Symbol]
EXISTING TREE (TO BE REMOVED)	[Symbol]	PROPOSED STABILIZED CONSTRUCTION ENTRANCE	[Symbol]
STEEP SLOPES (20% AND GREATER)	[Symbol]	PROP. SEWER TRENCH	[Symbol]
SEWER / WELL BOX SETBACK	[Symbol]	PROP. OVERSION FENCE	[Symbol]
PERCOLATION TEST PIT - PASSED	[Symbol]	SOIL TYPE BOUNDARY	[Symbol]
PERCOLATION TEST PIT - FAILED	[Symbol]	STORM DRAIN STRUCTURE NUMBER	[Symbol]

REV#	DATE	(REVIEW AGENCY) COMMENTS ADDRESSED
1	02/20/2023	





3180 DAISY RD
PARCEL 128
MICHAEL A GRODIN &
PATRICIA A ETAL GRODIN
PLAT NO 16603

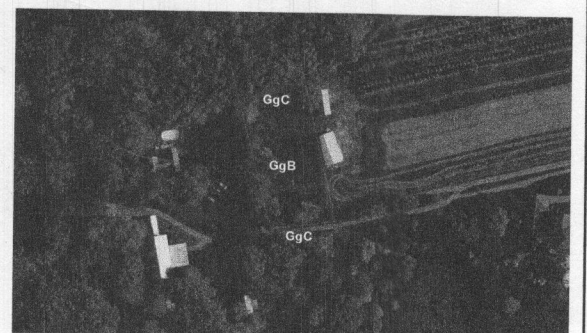
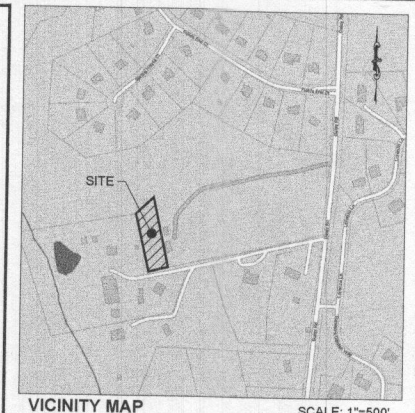


FEATURE	SYMBOL	FEATURE	SYMBOL
EXISTING STRUCTURES		PROPOSED ELEC SECTION / RSRAP	
PROPOSED STRUCTURES		PROP 1\"/>	

GENERAL NOTES

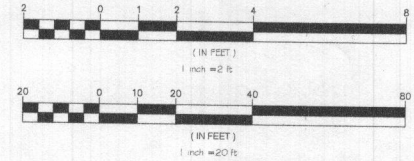
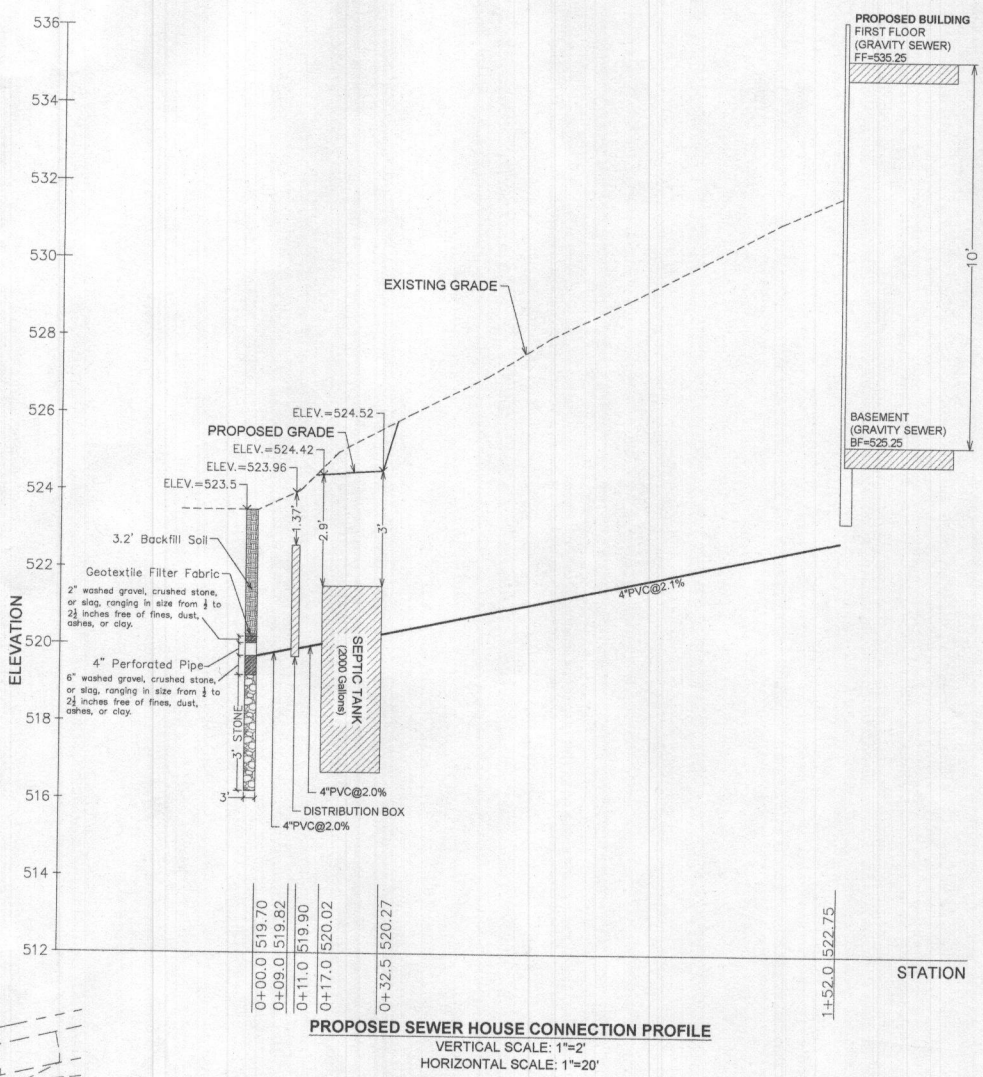
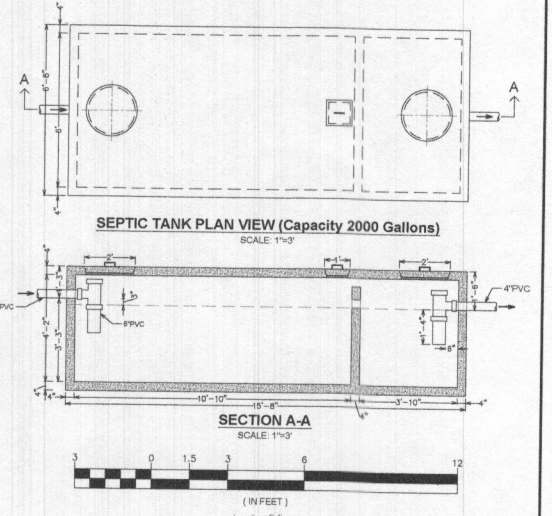
- Project Name: DAISY ROAD - 1.00A, DAISY ROAD
- Project Address: 3190 DAISY RD., WOODBINE, MD 21797
- Owner: ANKRODE FURNILAYO LUNICE
- Site Tract Area: 43,553.11 S.F. (1.00 AC.)
- Parcel #: 122
- Map: 20
- Grid: 0006
- Libor: 20158
- Folio: 00195
- Tax Account #: 340033
- Election District Number: 4
- Zone: RC-DEO
- Existing Use: Residential (Single Family)
- Proposed Use: Residential (Single Family)
- Subsides:

Front	57'	Required	94.2'
Rear	25'	Required	193.4'
Sides	19'	Required	15.0' & 13.4'
- The Topography information shown hereon is based on field-run survey, conducted in May, 2021 by CORNERSTONE SURVEYING, INC., 0024 Claimont Dr., Owings, MD 20736
- It has been verified to accurately represent the relative changes on the subject property.
- The probable water wells must be installed for 4, and the Well Completion Reports approved by the Health Department, prior to Building Permit Approvals for the respective lots.
- Underground well and sewerage components shown hereon are based on available public records and visible surface evidence, no subsurface exploration has been performed to verify their location.
- This plan was prepared without the benefit of a title report & does not show every matter affecting ownership and use, nor every matter restricting the ownership on use of the property.



SOIL MAP N.T.S.

Map Unit	Map Unit Name	Rating	K-FACTOR	Drainage Class	Acres in A-1	Percent of A-1
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.24	Well drained	0.6	49.25 %
GgC	Glenelg loam, 8 to 15 percent slopes	B	0.24	Well drained	0.4	50.75 %
Totals for Area of Interest						100.00%



Calculations For Septic Design

Design Criteria
 Design Flow = 150 (gpd/Bedroom) x 5 (Bedrooms) = 750 gpd
 Average of Percolation Rate = 15 Min./Inch
 Application Rate = 0.8 gpd/sq ft
 Size of Subsurface Disposal System = 938 SF
 Square Footage of House = 925 SF
 Septic Tank Capacity = 2000 Gallons

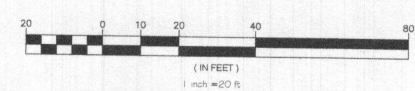
Septic Tank Design
 It has 2 Compartment
 Liquid Depth (D) = 3 ft (OK)
 Width (W) = 6 ft
 Length (L) = 15 ft
 L/W = 2.5 is equal or greater than 2 (OK)
 L/W = 2.5 is less than 3 (OK)
 Liquid Capacity of Septic Tank = 2000 Gallons
 Inlet Compartment Length = 11 ft
 Outlet Compartment Length = 4 ft
 Inlet Compartment Volume = 482 ft³ is equal or greater than 2/3 of Septic Tank Volume (OK)

Drainfield Trench Design
 Initial System
 Width of Trench (W) = 3 ft
 Effective Depth of Gravel Below Pipe (D) = 3 ft
 Percent of Length of Standard Trench = ((W+D)/(W+1+2D))x100 = 50 %
 Length of Standard Trench = 938 / 3 = 312.67 ft
 Length of Trench = 312.67 x 0.5 = 156.3 ft

PERCOLATION TEST RESULTS

Test#	Date Test Performed	Depth	Start	Break 1" Drop	Stop 2" Drop	Time of 2nd Inch	P/F/H
1	5/30/2012	3' - 12"	10:59	11:03	11:08	5 MIN	P
2	5/30/2012	3.5' - 12"	11:28	11:38	11:50	12 MIN	P
3	5/30/2012	REFUSAL			@ 8'		FAIL
4	5/30/2012	3' - 12"	10:37	10:40	10:47	7 min	P
5	5/30/2012	3.5' - 12"	11:50	11:54	12:00	6 min	P
6	5/30/2012	12'		VISUAL	PASS		P
Average						7 min	

REV#	DATE	(REVIEW AGENCY) COMMENTS ADDRESSED
1	02/20/2023	(REVIEW AGENCY) COMMENTS ADDRESSED



NOTES

- Any change to the location or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised plan may be required.
- The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
- The well (tag# HO-94-4158) has been field located and is accurately shown.
- All wells and septic systems located within 100' of property boundaries and 200' down gradient of any wells and/or septic systems have been shown.
- No grading or placement of dirt/earth or equipment is allowed within the septic area.
- Existing well (tag# HO-94-4158) was field located by CORNERSTONE SURVEYING, INC on NOVEMBER 2020.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

DAISY ROAD - 1.00A, DAISY RD

PROJECT ADDRESS: 3190 DAISY ROAD, WOODBINE, MD 21797
 OWNER/APPLICANT INFO: ANKRODE FURNILAYO LUNICE

MAP: 0020 ZONING: RC-DEO
 GRID: 0006 LOT #: 122
 PLAT #: 16603 LIBOR: 20158
 TAX ACC: 340033 FOLIO: 00195
 PARCEL: 0122

4th DISTRICT
HOWARD COUNTY, MD

RAZTEC ASSOCIATES, INC.
 civil engineers & planners
 341 W. Patrick St., Frederick, MD 21701
 Tel (301) 775-4394
 email: razteceng@comcast.net

PROFESSIONAL'S REVIEW STATEMENT
 I 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 NUMBER: 22742 EXPIRES: JUNE 15, 2024

DRAWN BY: PG
 CHECKED BY: MR
 DATE: FEB. 2022
 SCALE: 1"=20'
 SHEET NUMBER: SSP 1 OF 1