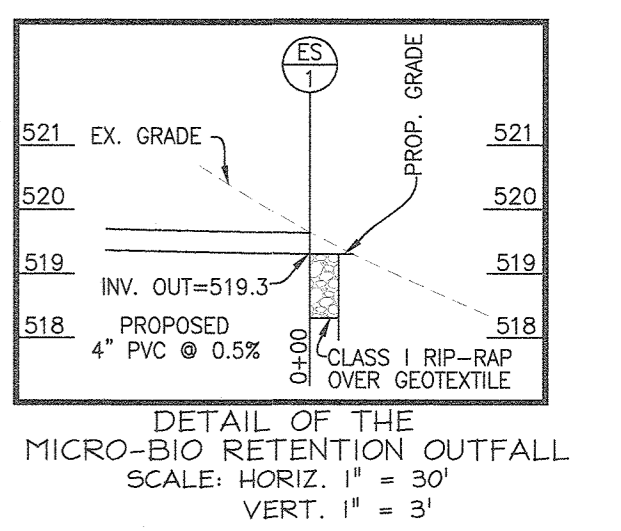
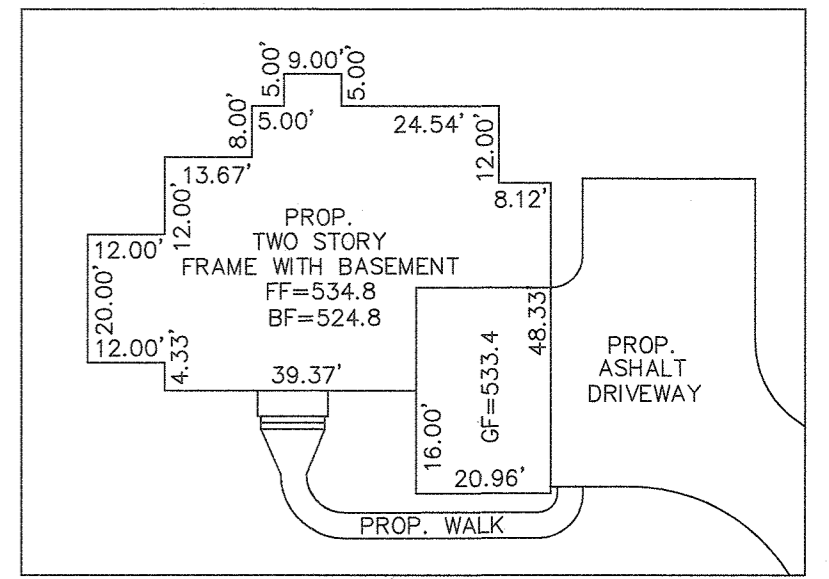
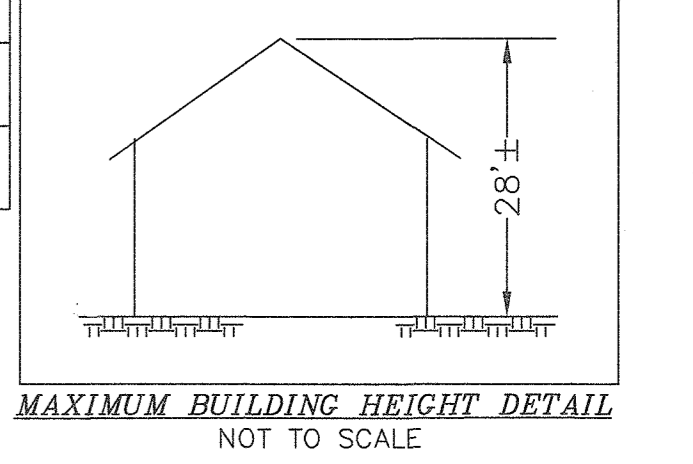


MICRO-BIO RETENTION (M-6) ELEVATION CHART			
NUMBER	TOP POND	TOP MULCH	INVERT PIPE BOTTOM PIT
1	524.9	523.9	520.73
			519.73

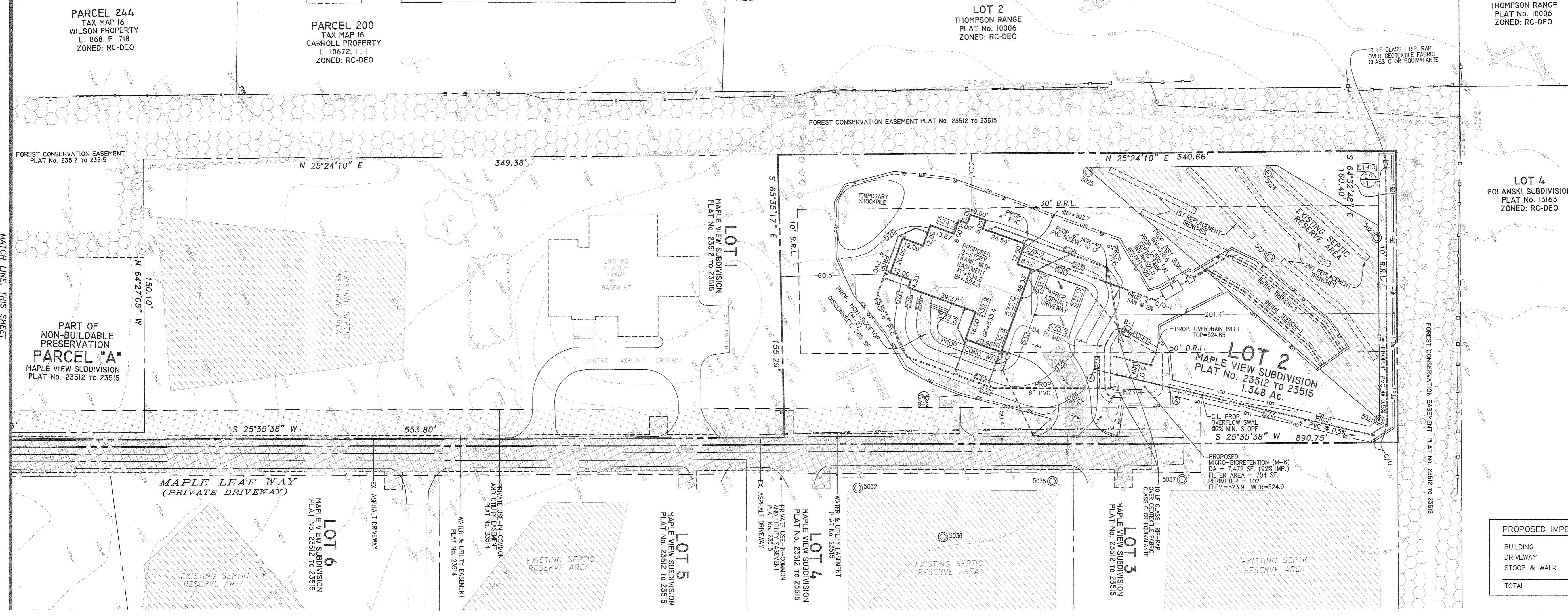
MISS UTILITY
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FREDERICK COUNTY REGULATIONS.

SOIL TABLE				
SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLOGIC	K-VALUE
GgB	Glenns Loom, 3% to 8% Slope	B	No	0.20



LEGEND	
	EX. WATER VALVE
	EX. WATER METER
	EX. FIRE HYDRANT
	EX. WATER CONNECTION
	EX. SIGN
	EX. ELECTRIC TRANSFORMER
	EX. BGE MARKER
	EX. CONTROL BOX
	EX. WOOD POST
	EX. PASSING PERCOLATION TEST
	EX. EVERGREEN TREE
	EX. DECIDUOUS TREE
	EX. DECORATIVE BUSH
	PROP. SPOT ELEVATION
	EX. CONTOUR
	PROP. CONTOUR
	DRAINAGE AREA LIMIT
	EX. EDGE WOODED AREA
	PROP. EDGE WOODED AREA
	PROP. SUPER SILT FENCE
	PROP. SILT FENCE
	PROP. LIMIT OF DISTURBANCE
	LOD
	TR DENOTES (TO REMAIN)
	TBR DENOTES (TO BE REMOVED)
	EX. PRIVATE USE-IN-COMMON AND UTILITY EASEMENT
	EX. FOREST CONSERVATION EASEMENT
	EX. SEPTIC RESERVE AREA
	EX. WATER & UTILITY EASEMENT
	PROP. NON-ROOFTOP DISCONNECT (N-2)
	SOIL BORING LOCATION

PROPOSED IMPERVIOUS	
BUILDING	= 3,088 SF.
DRIVEWAY	= 2,362 SF.
STOOP & WALK	= 320 SF.
TOTAL	= 5,770 SF.



SITE ANALYSIS DATA CHART	
TOTAL LOT AREA (INCLUDING PIPESTEM)	= 1.348 ACRES
NET LOT AREA (PIPESTEM EXCLUDED)	= 1.245 ACRES (54,218 SF.)
LOT AREA "PROP. TO BE DISTURBED"	= 0.537 ACRES (23,413 SF.)
NEW LOT IMPERVIOUS AREA PROPOSED	= 0.132 ACRES (5,770 SF.)
EX. MAC. DRIVEWAY ON NET LOT AREA (OUTSIDE THE LIMIT OF DISTURBANCE)	= 0.028 ACRES (1,201 SF.)
SITE AREA WITHIN WETLAND	= 0 ACRES
SITE AREA WITHIN 25' WETLAND BUFFER	= 0 ACRES
SITE AREA OF STEEP SLOPES	= 0 ACRES
SITE AREA OF ERODIBLE SOILS	= 0 ACRES
SITE AREA WITHIN 100-YR FLOODPLAIN	= 0 ACRES
SITE AREA WITHIN 100' STREAM BUFFER	= 0 ACRES
SITE TOTAL FORESTED AREA	= 0 ACRES
TOTAL WOODED AREA TO BE CLEARED	= 0 ACRES

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
THIS DEVELOPMENT PLAN IS APPROVED FOR PUBLIC WATER & PRIVATE SEWAGE SYSTEMS.

Howard County Health Officer
DATE: 3/19/21

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Alexander Bratchis
HOWARD SOIL CONSERVATION DISTRICT
DATE: 03/11/21

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

M.N. ROSEMAN, L.S.
M.N. ROSEMAN, L.S.
DATE: 3/8/2021

LOT 9
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 8
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 7
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 6
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Chisholm
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 4/5/21

Chad Chisholm
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 4/21/21

Chad Chisholm
DIRECTOR
DATE: 4/21/21

REVISIONS	
No.	DATE

PLAN PREPARED BY:

NJR & ASSOCIATES
Land Surveying and Planning
2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21194
TEL: (240) 508-3200

PROFESSIONAL CERTIFICATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 11049 WITH EXPIRATION DATE OF FEBRUARY 10, 2023.

M.N. ROSEMAN
DATE: 3/8/2021

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Caruso Homes
DATE: 3/8/2021

DEVELOPER

CARUSO HOMES
2120 BALDWIN AVENUE, SUITE-200
CROFTON, MD 21114
(301) 261-0277

OWNER

BO SUN & YIJING LU
4937 WINDPOWER WAY
ELLCOTT CITY, MD 21043
(202) 256-6826

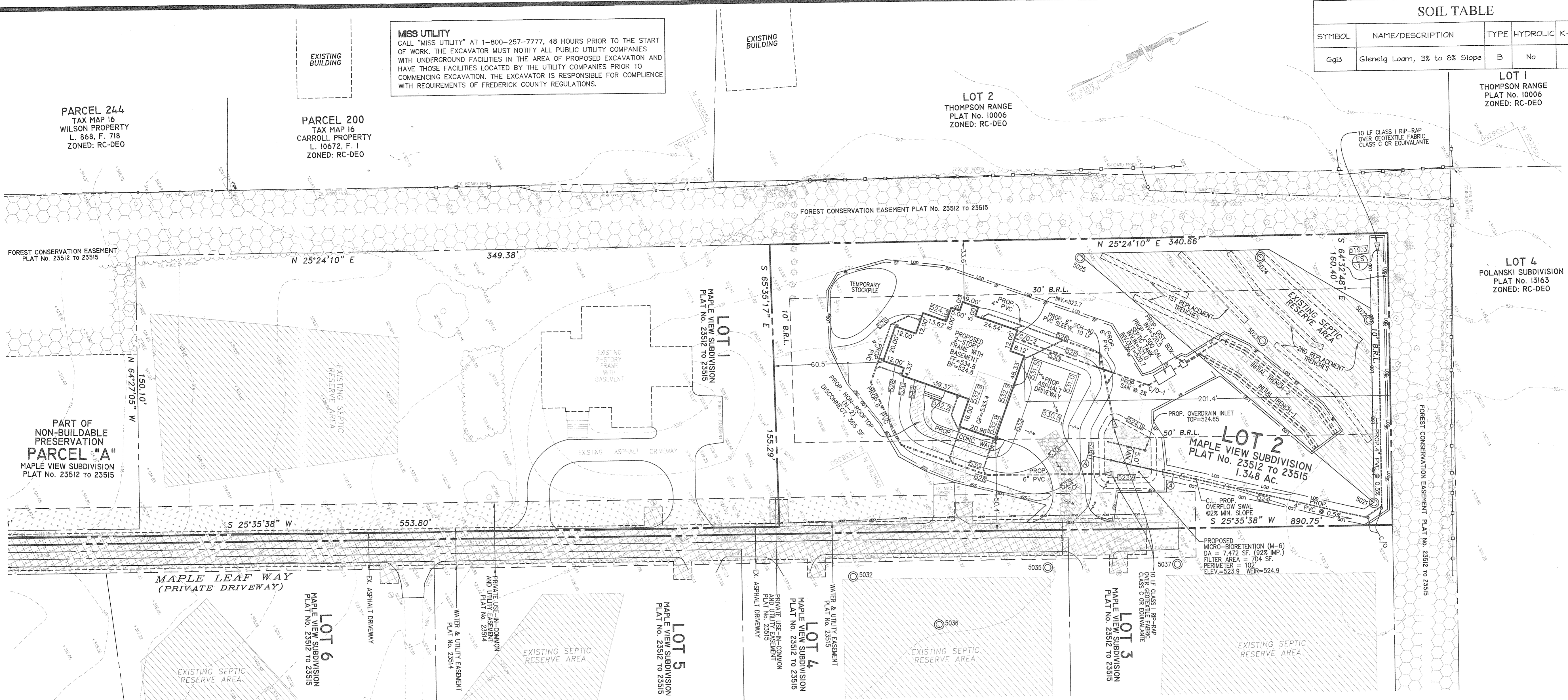
SITE DEVELOPMENT PLAN

MAPLE VIEW
LOT 2
PLAT No. 23512-23515
TAX MAP 16, GRID 15, PARCEL 88
ZONED: RC-DEO
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 3571 DATE: MAY 6, 2020 SHEET: 2 OF 4

SOIL TABLE				
SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLOGIC	K-VALUE
GgB	Glenelg Loam, 3% to 8% Slope	B	No	0.20

LEGEND	
	EX. WATER VALVE
	EX. WATER METER
	EX. FIRE HYDRANT
	EX. WATER CONNECTION
	EX. SIGN
	EX. ELECTRIC TRANSFORMER
	EX. BGE MARKER
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	EX. DECORATIVE BUSH
	PROP. SPOT ELEVATION
	EX. CONTOUR
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	PROP. EDGE WOODED AREA
	PROP. SUPER SILT FENCE
	PROP. SILT FENCE
	PROP. LIMIT OF DISTURBANCE
	DENOTES (TO REMAIN)
	DENOTES (TO BE REMOVED)
	EX. PRIVATE USE-IN-COMMON AND UTILITY EASEMENT
	EX. FOREST CONSERVATION EASEMENT
	EX. SEPTIC RESERVE AREA
	EX. WATER & UTILITY EASEMENT
	PROP. NON-ROOFTOP DISCONNECT (N-2)



TRENCH INFO, INITIAL SYSTEM				
TRENCH	TRENCH LENGTH	EX. TOP OF GROUND	TOP OF GRAVEL	BOTTOM OF TRENCH
1	78.5'	524.3±	523.3	520.3
2	78.5'	523.7±	522.7	519.7

SEPTIC SYSTEM CALCULATIONS, INITIAL + 1ST REPLACEMENT SYSTEMS

ABS. RATE= 0.6, EFF. DEPTH= 4'-7" (3')

DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.

SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+14+2(DEPTH)} = \frac{3+2}{3+1+2(3)} = 0.50$

LENGTH OF TRENCHES: $\frac{938 \text{ SQ. FT.} \times 0.50}{3} = 156.3 \text{ LINEAR FEET}$

INITIAL SYSTEM: TWO TRENCHES OF 78.5 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.

FIRST REPLACEMENT SYSTEM: THREE TRENCHES OF 52.5 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.

SEPTIC SYSTEM CALCULATIONS, 2ND REPLACEMENT SYSTEM

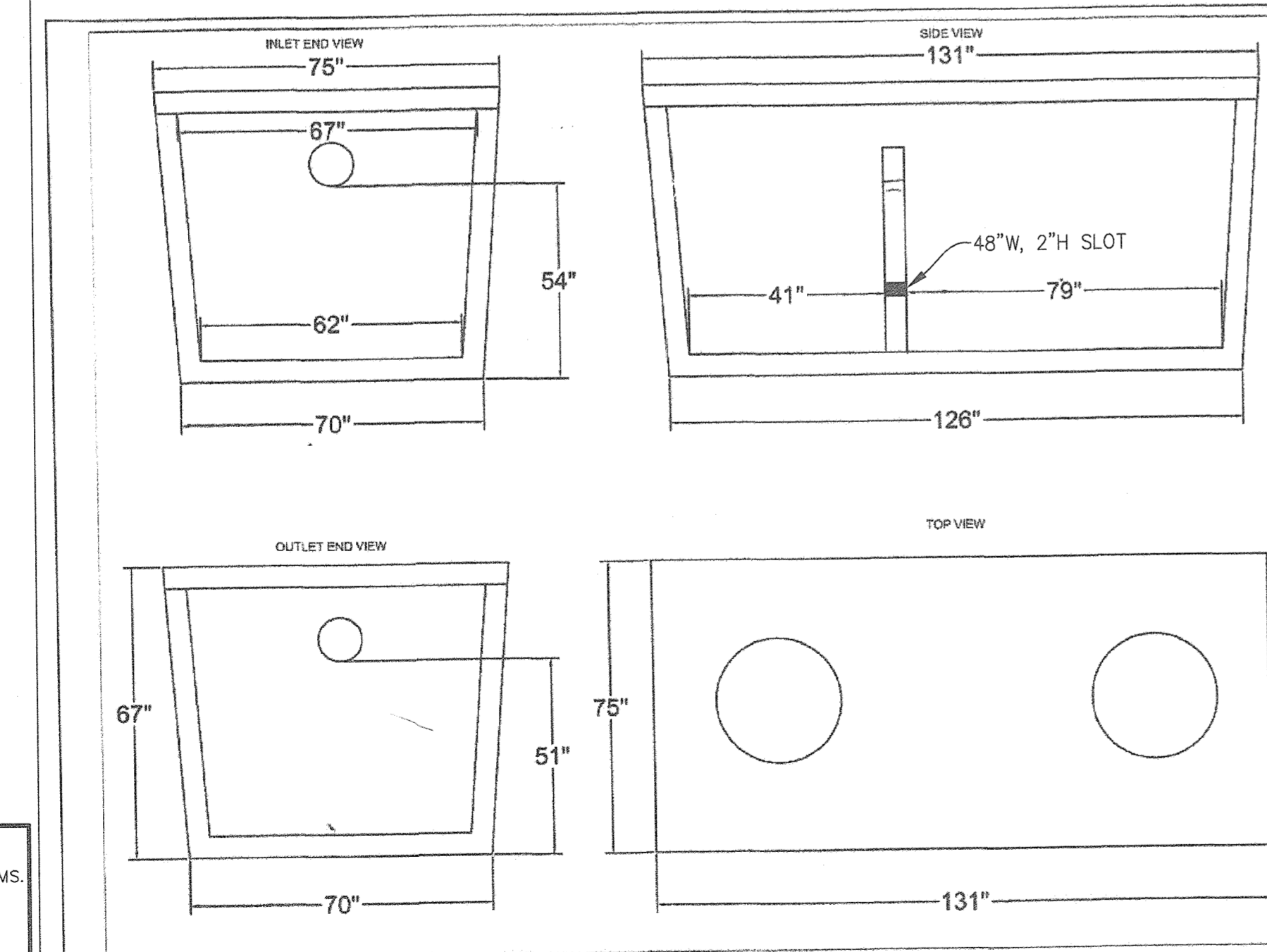
ABS. RATE= 0.8, EFF. DEPTH=4.5'-6" (1.5')

DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.

SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{WIDTH+14+2(DEPTH)} = \frac{3+2}{3+1+2(1.5)} = 0.7143$

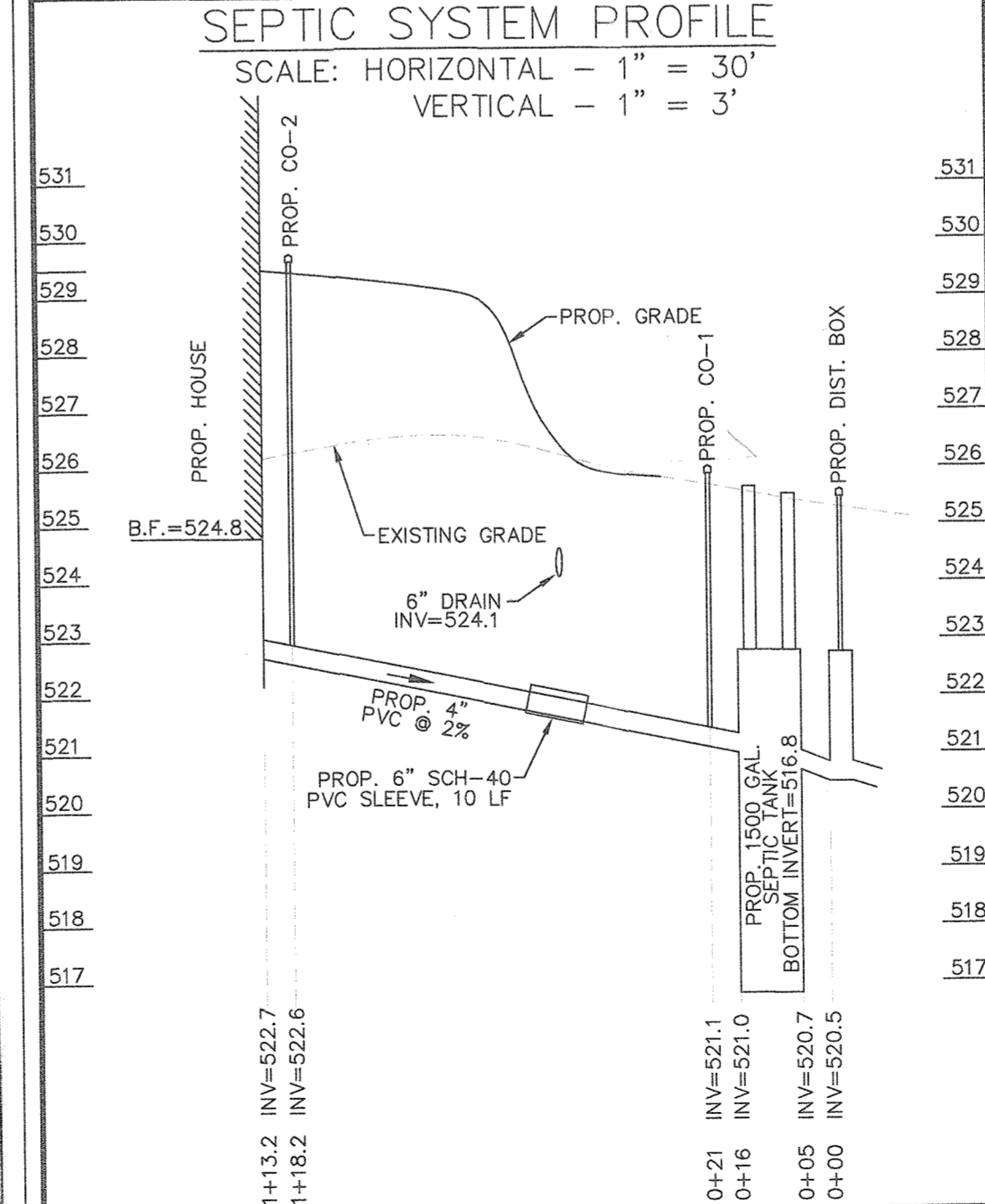
LENGTH OF TRENCHES: $\frac{938 \text{ SQ. FT.} \times 0.7143}{3} = 223.3 \text{ LINEAR FEET}$

SECOND REPLACEMENT SYSTEM: THREE TRENCHES OF 75 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.



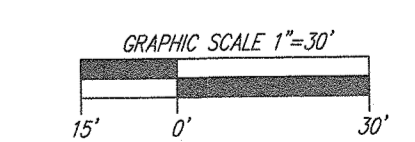
STANDARD DETAIL
1500 GALLON TWO COMPARTMENT SEPTIC TANK

1500 T.S/W/C



- NOTES:**
- ANY CHANGES 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.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING WALL.
 - ALL EXISTING 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 ON THIS PLAN.
 - THE TOPOGRAPHY SHOWN ON THIS PLAT IS BASED ON AN ACTUAL FIELD RUN SURVEY BY NJR & ASSOCIATES PERFORMED ON DECEMBER OF 2019.
 - THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT ARE AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
 - THE LOT SHOWN HEREON IS SERVED BY PUBLIC WATER.

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
2	2921 MAPLE LEAF WAY



APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
THIS DEVELOPMENT PLAN IS APPROVED FOR PUBLIC WATER & PRIVATE SEWAGE SYSTEMS.

Howard County Health Officer
COUNTY HEALTH OFFICER u.c. DATE: 3/19/21

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Engineering Division
CHIEF, ENGINEERING DIVISION DATE: 4.5.21

Chief, Division of Land Development
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 4/2/21

Director
DIRECTOR DATE: 4/21/21

REVISIONS	
No.	DATE

PLAN PREPARED BY:

NJR & ASSOCIATES
Land Surveying and Planning

2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21794
TEL: (240) 508-3200

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[Signature]
DATE: 3/8/2021

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I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature]
DATE: 3/1/2021

DEVELOPER
CARUSO HOMES
2120 BALDWIN AVENUE, SUITE-200
CROFTON, MD 21144
(301) 261-0277

OWNER
BO SUN & YIANG LU
4937 WINDPOW WAY
ELLCOTT CITY, MD 21043
(202) 256-6826

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

MAPLE VIEW
LOT 2
PLAT No. 23512-23515
TAX MAP 16, GRID 15, PARCEL 88
ZONED: RC-DEO

3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 3571 DATE: MAY 6, 2020 SHEET: 4 OF 4