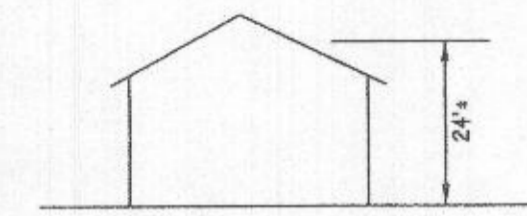


GUTTER DRAIN FILTER DETAIL
NOT TO SCALE



MAXIMUM BUILDING HEIGHT DETAIL
NOT TO SCALE

SYMBOL	DESCRIPTION
(Symbol)	EXISTING 2" CONDUITS
(Symbol)	EXISTING 12" CONDUITS
(Symbol)	PROPOSED CONDUIT
(Symbol)	EXISTING 18" CONDUIT
(Symbol)	EXISTING 24" CONDUIT
(Symbol)	EXISTING 30" CONDUIT
(Symbol)	EXISTING 36" CONDUIT
(Symbol)	EXISTING 42" CONDUIT
(Symbol)	EXISTING 48" CONDUIT
(Symbol)	EXISTING 54" CONDUIT
(Symbol)	EXISTING 60" CONDUIT
(Symbol)	EXISTING 66" CONDUIT
(Symbol)	EXISTING 72" CONDUIT
(Symbol)	EXISTING 78" CONDUIT
(Symbol)	EXISTING 84" CONDUIT
(Symbol)	EXISTING 90" CONDUIT
(Symbol)	EXISTING 96" CONDUIT
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(Symbol)	EXISTING 420" CONDUIT
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(Symbol)	EXISTING 750" CONDUIT
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(Symbol)	EXISTING 762" CONDUIT
(Symbol)	EXISTING 768" CONDUIT
(Symbol)	EXISTING 774" CONDUIT
(Symbol)	EXISTING 780" CONDUIT
(Symbol)	EXISTING 786" CONDUIT
(Symbol)	EXISTING 792" CONDUIT
(Symbol)	EXISTING 798" CONDUIT
(Symbol)	EXISTING 804" CONDUIT
(Symbol)	EXISTING 810" CONDUIT
(Symbol)	EXISTING 816" CONDUIT
(Symbol)	EXISTING 822" CONDUIT
(Symbol)	EXISTING 828" CONDUIT
(Symbol)	EXISTING 834" CONDUIT
(Symbol)	EXISTING 840" CONDUIT
(Symbol)	EXISTING 846" CONDUIT
(Symbol)	EXISTING 852" CONDUIT
(Symbol)	EXISTING 858" CONDUIT
(Symbol)	EXISTING 864" CONDUIT
(Symbol)	EXISTING 870" CONDUIT
(Symbol)	EXISTING 876" CONDUIT
(Symbol)	EXISTING 882" CONDUIT
(Symbol)	EXISTING 888" CONDUIT
(Symbol)	EXISTING 894" CONDUIT
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(Symbol)	EXISTING 996" CONDUIT
(Symbol)	EXISTING 1002" CONDUIT
(Symbol)	EXISTING 1008" CONDUIT
(Symbol)	EXISTING 1014" CONDUIT
(Symbol)	EXISTING 1020" CONDUIT
(Symbol)	EXISTING 1026" CONDUIT
(Symbol)	EXISTING 1032" CONDUIT
(Symbol)	EXISTING 1038" CONDUIT
(Symbol)	EXISTING 1044" CONDUIT
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(Symbol)	EXISTING 1092" CONDUIT
(Symbol)	EXISTING 1098" CONDUIT
(Symbol)	EXISTING 1104" CONDUIT
(Symbol)	EXISTING 1110" CONDUIT
(Symbol)	EXISTING 1116" CONDUIT
(Symbol)	EXISTING 1122" CONDUIT
(Symbol)	EXISTING 1128" CONDUIT
(Symbol)	EXISTING 1134" CONDUIT
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(Symbol)	EXISTING 1146" CONDUIT
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(Symbol)	EXISTING 1176" CONDUIT
(Symbol)	EXISTING 1182" CONDUIT
(Symbol)	EXISTING 1188" CONDUIT
(Symbol)	EXISTING 1194" CONDUIT
(Symbol)	EXISTING 1200" CONDUIT

SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	SEWAGE & EROSION CONTROL NOTES & DETAILS
3	SEPTIC INSTALL PLAN
4	STORMDRAIN PROFILES & DETAILS AND STORMWATER MANAGEMENT DETAILS

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 18272 BALDWIN AVENUE
ELICOTT CITY, MARYLAND 21042
(410) 461-2293

General Notes:

- SUBJECT PROPERTY IS ZONED RC-DEO PER THE COMPREHENSIVE ZONING PLAN DATED 10/06/13.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-315-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THIS PLAN IS BASED ON FIELD RUN NON-DEFORMED BOUNDARY SURVEY PERFORMED ON OR ABOUT AUGUST, 2013 BY FISHER, COLLINS & CARTER, INC. BOUNDARY SURVEY HEREON IS BASED ON RECORD PLAT NO. 23512 THRU 23515, RECORD ON OCTOBER 9, 2015. PROPERTY CORNERS LOCATED & VERIFIED, AND EXISTING TOPOGRAPHY OBTAINED BY FIELD SURVEY BY FISHER, COLLINS & CARTER, INC. IN MAY, 2011.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON NAD 83 COORDINATE SYSTEM.
- PREVIOUS DEED FILE NUMBERS: F-76-053, (PLAT #3413); F-98-85, (PLAT #3136); ECP-14-018, F-14-073 & F-14-075.
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE P.D.E. STORM WATER DESIGN MANUAL, VOLUMES 1 & II, (EFFECTIVE OCTOBER 2000, REVISED MAY 2009).
- STORMWATER MANAGEMENT FOR LOT 1 IS PROVIDED BY ONE MICRO-BIORETENTION FACILITY (N-6) FOR A PORTION OF THE PROPOSED DRIVEWAY AND THE PROPOSED HOUSE. THE REMAINING PORTION OF DRIVEWAY IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2). DECLARATION OF COMPLIANCE WILL BE REQUIRED FOR THE PROPOSED STORMWATER MANAGEMENT ON LOT 1. A PASSING SEPTIC TEST HOLE IS WITHIN 50 FT. OF THE PROPOSED MICRO-BIORETENTION FACILITY SHOWING ADEQUATE INFILTRATION RATES, SO NO ADDITIONAL BORING WILL BE NEEDED.
- THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOT 1 IS TO BE SERVED PUBLIC WATER AND PRIVATE SEWER (SEPTIC), PUBLIC WATER CONTRACT NO. IS 44-4838-0. PRIVATE SEPTIC FACILITY WILL BE UTILIZED.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- NO STEEP SLOPES EXIST ON-SITE.
- NO ENVIRONMENTAL FEATURES EXISTING ON-SITE, INCLUDING WETLANDS, WETLAND BUFFERS, FOREST, 100 YEAR FLOODPLAIN OR STREAMS PER ENVIRONMENTAL FINDINGS AS DETERMINED BY ECO-SCIENCE PROFESSIONALS, INC. DATED OCTOBER 11, 2013.
- THIS PLAN IS IN COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- THIS PROJECT (FOR LOTS 1-6) COMPLIES WITH THE REQUIREMENTS OF SECTION 16.12(D) OF THE HOWARD COUNTY CODE FOR FOREST AND AFForestation PLANTING OF 2.23 ACRES (97,139 SQ. FT.) OF FOREST THERE IS ALSO 0.90 ACRES OF ON-SITE RETENTION. SURVEY IN THE AMOUNT OF \$43,778 (87,596 SQ.FT. x \$0.50) HAS BEEN POSTED AS PART OF THE DWP DEVELOPERS AGREEMENT. AFForestation SURVEY BASED ON 2.01 ACRES, WHICH ACCOUNTS FOR LANDSCAPE COSTS OF 62 SHADY TREES PER F-14-073.
- THE PERIMETER LANDSCAPING OBLIGATION FOR LOTS 1-6 WAS PROVIDED IN ACCORDANCE WITH THIS CERTIFIED LANDSCAPE PLAN ON FILE WITH THE FINAL PLAT. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, A LANDSCAPE SURETY IN THE AMOUNT OF \$14,000 BASED ON 36 SHADY TREES #8000/GRADE TREE AND 22 EVERGREEN TREES @ \$150/EVINGREEN IS BONDING WITH THE PUBLIC WORKS DEVELOPERS AGREEMENT AND F-14-073.
- THESE ARE NO EXISTING BUILDINGS ON THIS PROPERTY.
- B.S.L. DENOTES BUILDING RESTRICTION LINE.
- ALL AREAS ARE MORE OR LESS (±).
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO HAD 83 GRID MEASUREMENT.
- THE 650BA NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALEST DEVELOPERS, BUILDER AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- NO CONCRETE OR HISTORIC STRUCTURES WITHIN THE LINES OF THIS PLAN SUBMISSION. THE STRUCTURES WERE DETERMINED BY HISTORICAL COMMISSION DETERMINED THE BUILDINGS DID NOT OFFER SIGNIFICANT HISTORIC VALUE.
- A COMMUNITY MEETING WAS CONDUCTED ON FEBRUARY 26, 2013 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY REGARDING THE PROPOSED DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE COMMENT, PER SECTION 16.12(d) OF THE SUBDIVISION REGULATIONS, AT THE TIME OF SUBMISSION.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION 410.531.5533
BGE/CONTRACTOR SERVICES 410.850.4820
BGE/UNDERGROUND DAMAGE CONTROL 410.877.9026
MISS UTILITY 1.800.257.7777
COLONIAL PIPELINE COMPANY 410.795.1590
HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
ATA 1.800.252.1110
VERIZON 1.800.743.0033/410.224.9210
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS, AND MISS UTILITY MARKINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ESTIMATES OF MATERIAL QUANTITIES ARE PROVIDED ONLY FOR THE PURPOSE OF CALCULATING FEES.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
- DRIVEWAY FOR LOT 1 SHALL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL 8-6.06 IN THE VOL. IV DESIGN MANUAL.
- SOILS SHOWN HEREON ARE BASED ON THE NEDS VERBOSIL SURVEY AND HOWARD COUNTY SOILS MAP #17.
- LIMIT OF DISTURBANCE 23,627 SQ.FT. OR 0.53 ACRES.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
WIDTH - 12' (16" SERVING MORE THAN ONE RESIDENCE)
SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1 1/2" MIN)
GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIIUS
DRAINAGE (DRAINAGE/DESIGN) - CAPABLE OF SUPPORTING 25,000 TONS (20% LOADING)
DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- FLAG AND PIPESTEM LOTS, BEFORE COLLECTION, SIGN REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- THIS PROJECT WILL NOT REQUIRE MITIGATION FROM FREDERICK ROAD AS IT IS A SCENIC ROAD BECAUSE OF THE DISTANCE BETWEEN THE ROAD AND NOISE.
- A PRIVATE ROAD STREET NAME SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-315-5752 FOR DETAILS AND COST ESTIMATES.
- PER COUNTY CODE-2016, PROPOSED SINGLE FAMILY HOUSES THAT ADEQUATE WIRING AND CIRCUITRY BE PROVIDED FOR AN ELECTRIC VEHICLE CHARGING STATION IN THE GARAGE, AND THE ARCHITECTURAL PLANS SHOULD SHOW THIS TO BE PROVIDED.

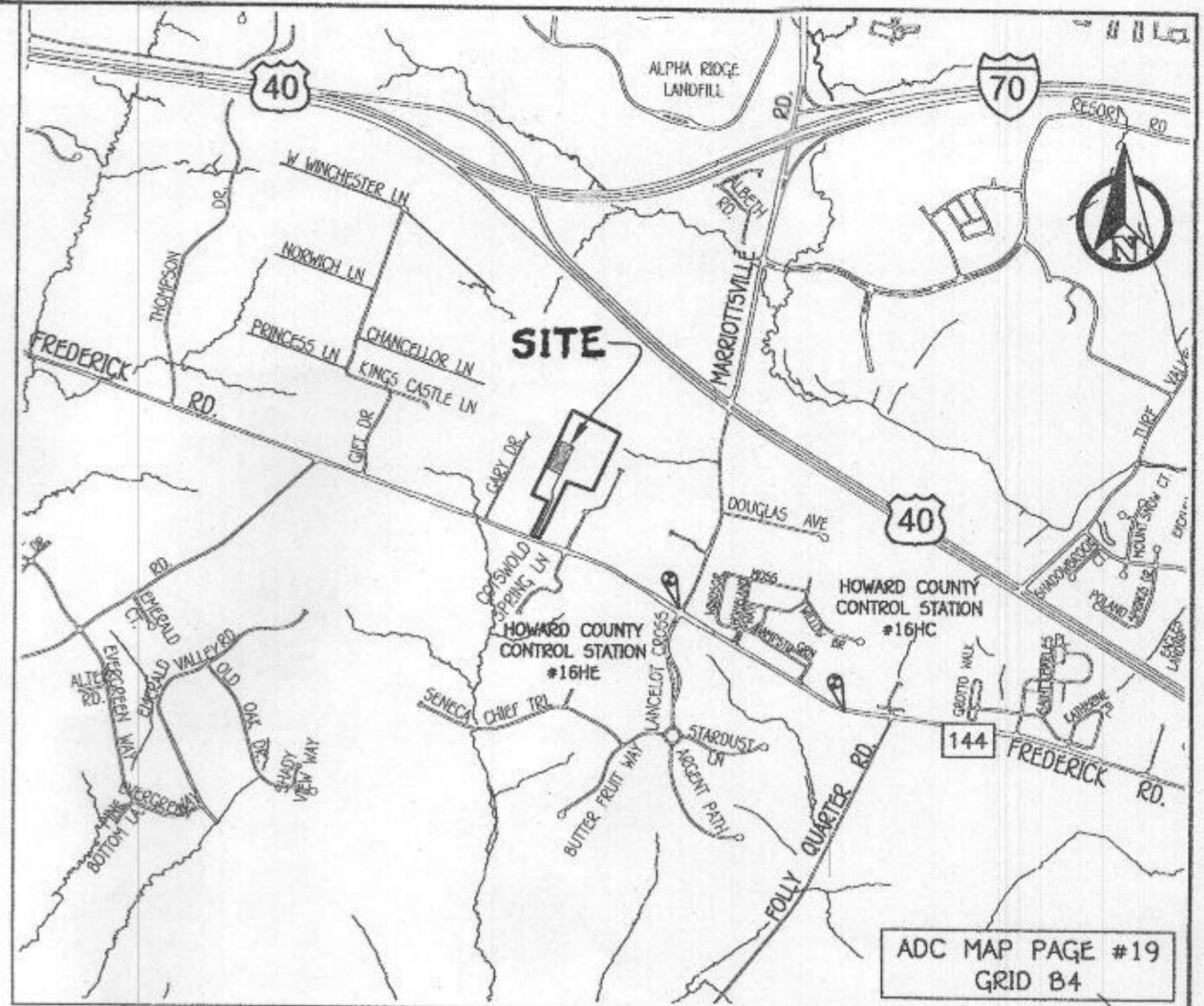
SOIL	NAME	CLASS	K FACTOR
GgB	Glenely loam, 3 to 8 percent slopes	B	0.20
GgC	Glenely loam, 8 to 15 percent slopes	B	0.20
GnB	Glenville-Ballie silt loams, 0 to 8 percent slopes	C	0.37

ROAD NAME	CLASSIFICATION	DESIGN SPEED	EASEMENT WIDTH
MAPLE LEAF WAY	USE-IN-COMMON	15 MPH	36' - 40'

BENCHMARK INFORMATION

18HC - HOWARD COUNTY CONTROL STATION #180C - HORIZONTAL - NAD '83
N 569,760.3454
E 1,341,532.0916
ELEVATION = 448.633 - VERTICAL - (NAD '80)

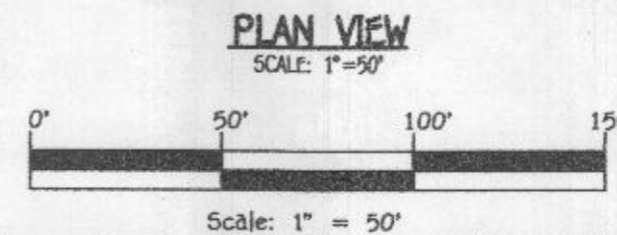
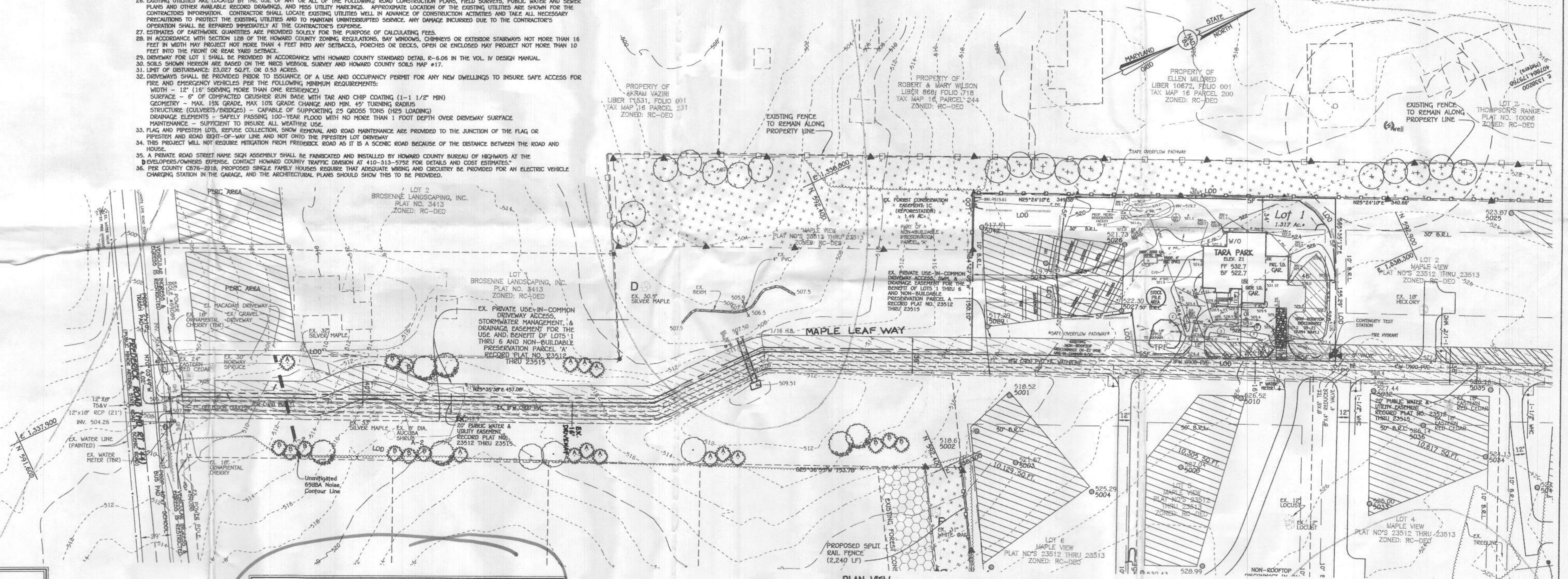
18HC - HOWARD COUNTY CONTROL STATION #180A - HORIZONTAL - (NAD '83)
N 550,948.7095
E 1,339,996.9579
ELEVATION = 537.982 - VERTICAL - (NAD '80)



VICINITY MAP
SCALE: 1" = 2,000'

SITE ANALYSIS DATA CHART

A. TOTAL AREA OF THIS SUBMISSION = 1,317 AC.
B. LIMIT OF DISTURBED AREA = 30768 SQ.FT. OR 0.69 AC.
C. PRESENT ZONING DESIGNATION = RC-DEO
(PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
D. PROPOSED USE: RESIDENTIAL
E. PREVIOUS HOWARD COUNTY FILES: F-14-073, PLATS 23512 THRU 23515, ECP-14-018
F. TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC
G. TOTAL AREA OF MODERATE STEEP SLOPES (15% TO 24.9%) = 0.00 AC
H. TOTAL AREA OF STEEP SLOPES (25% OR GREATER) = 0 AC.
I. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
J. TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC.
K. TOTAL GREEN OPEN AREA = 1,143 AC.
L. TOTAL AREA OF EXISTING FOREST = 0.00 AC
M. TOTAL IMPERVIOUS AREA = 0.174 AC.
N. TOTAL AREA OF ERODIBLE SOILS = 0.00 AC.
O. TOTAL AREA OF ROAD DEDICATION = 0.00 AC.



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

Carolina for Monica Rossman
COUNTY HEALTH OFFICER
DATE: 4/22/2019

This Development Plan is approved for Soil Erosion and Sediment Control by the HOWARD SOIL CONSERVATION DISTRICT.

John L. Blanton
HOWARD SCD
DATE: 4/3/19

LOT NUMBER	STREET ADDRESS
1	2911 MAPLE LEAF WAY

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. 30096, EXPIRATION DATE: 01/18/2020.

Stephan J. Tuttle
DATE: 3/28/19

BUILDER

CARUSO HOMES
2120 BALDWIN AVENUE
SUITE 200
CROFTON, MARYLAND 21114
301-832-6426

DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE DESCRIBED PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Sridhar P. Banala
DATE: 3/27/2019

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Victoria Jones
Chief, Division of Land Development
DATE: 5-2-19

John Blanton
Chief, Development Engineering Division
DATE: 5-1-19

John Blanton
Director, Department of Planning and Zoning
DATE: 5-2-19

PROJECT	SECTION	LOTS NO.
MAPLE VIEW	N/A	LOT 1

PLAT	GRID NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23512 - 23515	15	RC-DEO	16	3	6030.04

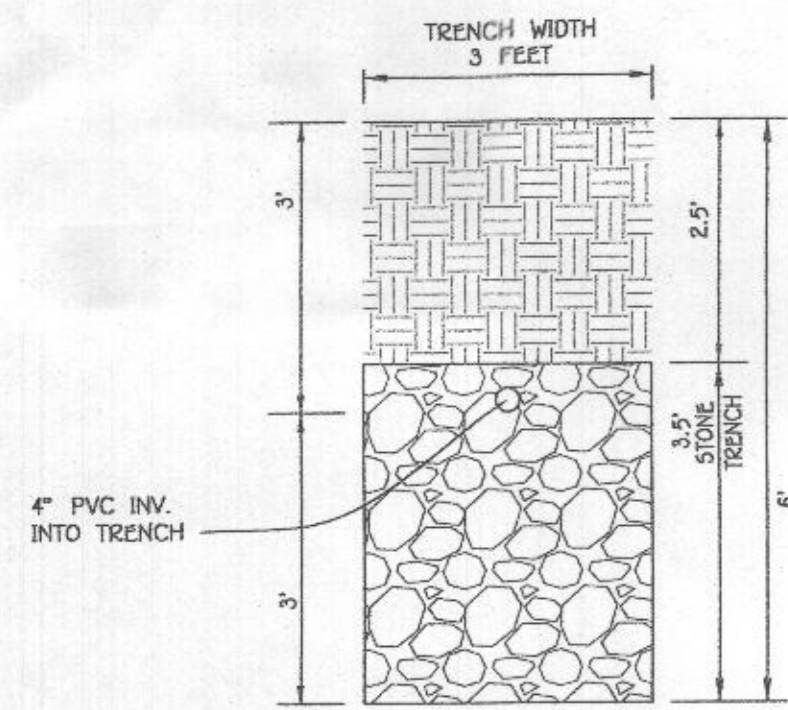
WATER CODE	SEWER CODE
XXXX	N/A

SITE DEVELOPMENT PLAN

MAPLE VIEW
LOT 1
A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3
ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 80
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MARCH 27, 2019
SHEET 1 OF 4

50P-19-041



INITIAL TRENCH DETAIL
SCALE: 1"=2'

FFE 532.7
BSE 522.7
INV. OUT OF HOUSE = 520.89
PROP. GROUND AT CLEANOUT #1 = 524.4
INV. INTO CLEANOUT = 520.52
INV. OUT OF CLEANOUT = 520.42
EX. GROUND AT SEPTIC TANK = 522.2
PROP. GRADE ABOVE SEPTIC TANK = 522.8
TOP OF SEPTIC TANK = 520.71
INV. INTO SEPTIC TANK = 519.71
INV. OUT OF SEPTIC TANK = 519.46
EX. GROUND AT DISTRIBUTION BOX = 521.9
INV. INTO DISTRIBUTION BOX = 518.9
INV. OUT OF DISTRIBUTION BOX = 518.8

NOTES

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. 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.
4. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 625 SF x 0.625 = 390.625 FEET
(USE 4 TRENCHES AT 32.55 LF.)
TRENCH SPACING = 2D+W = (2 \times 2) + 3 = 7' USE 10'

1ST REPLACEMENT SYSTEM

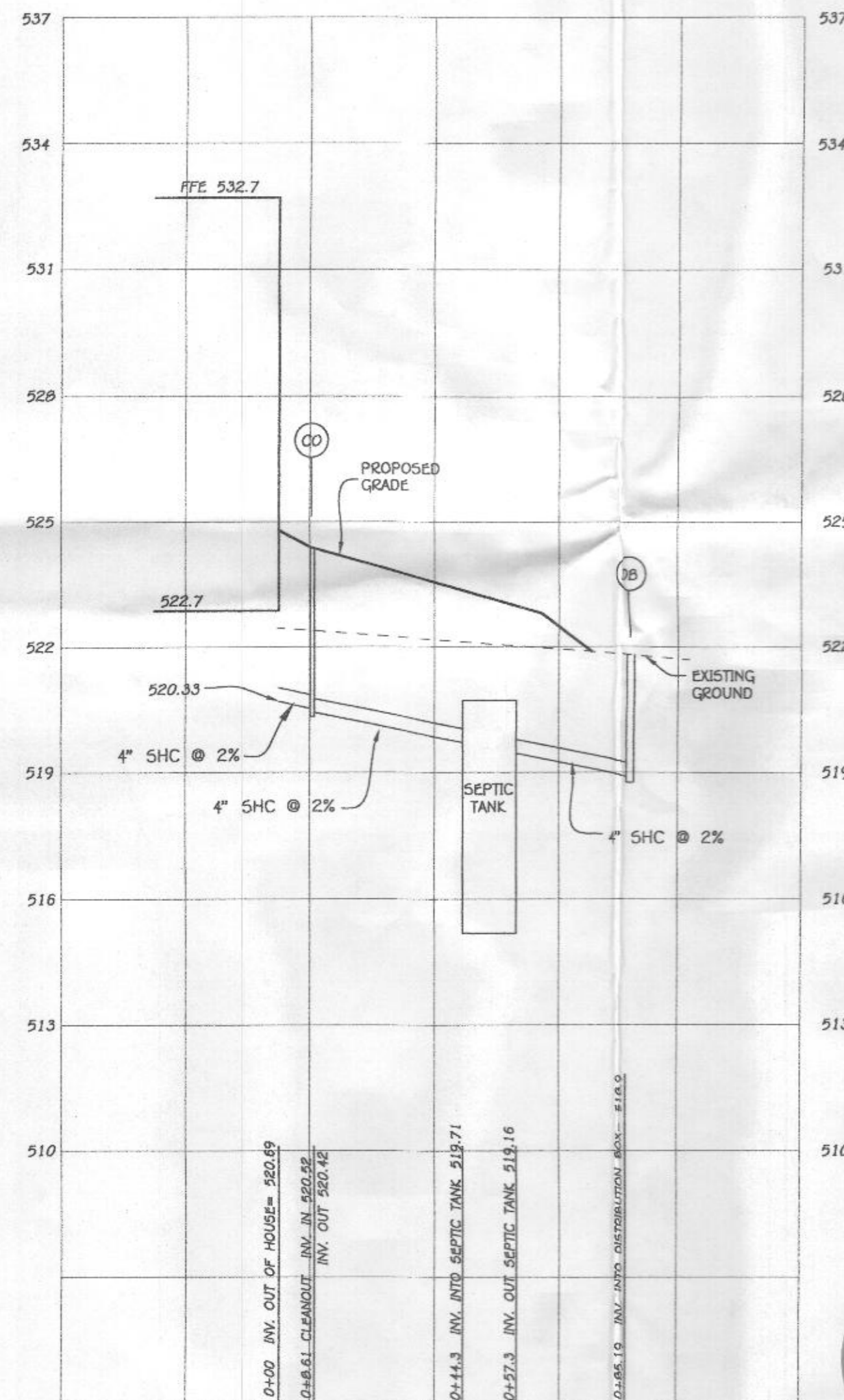
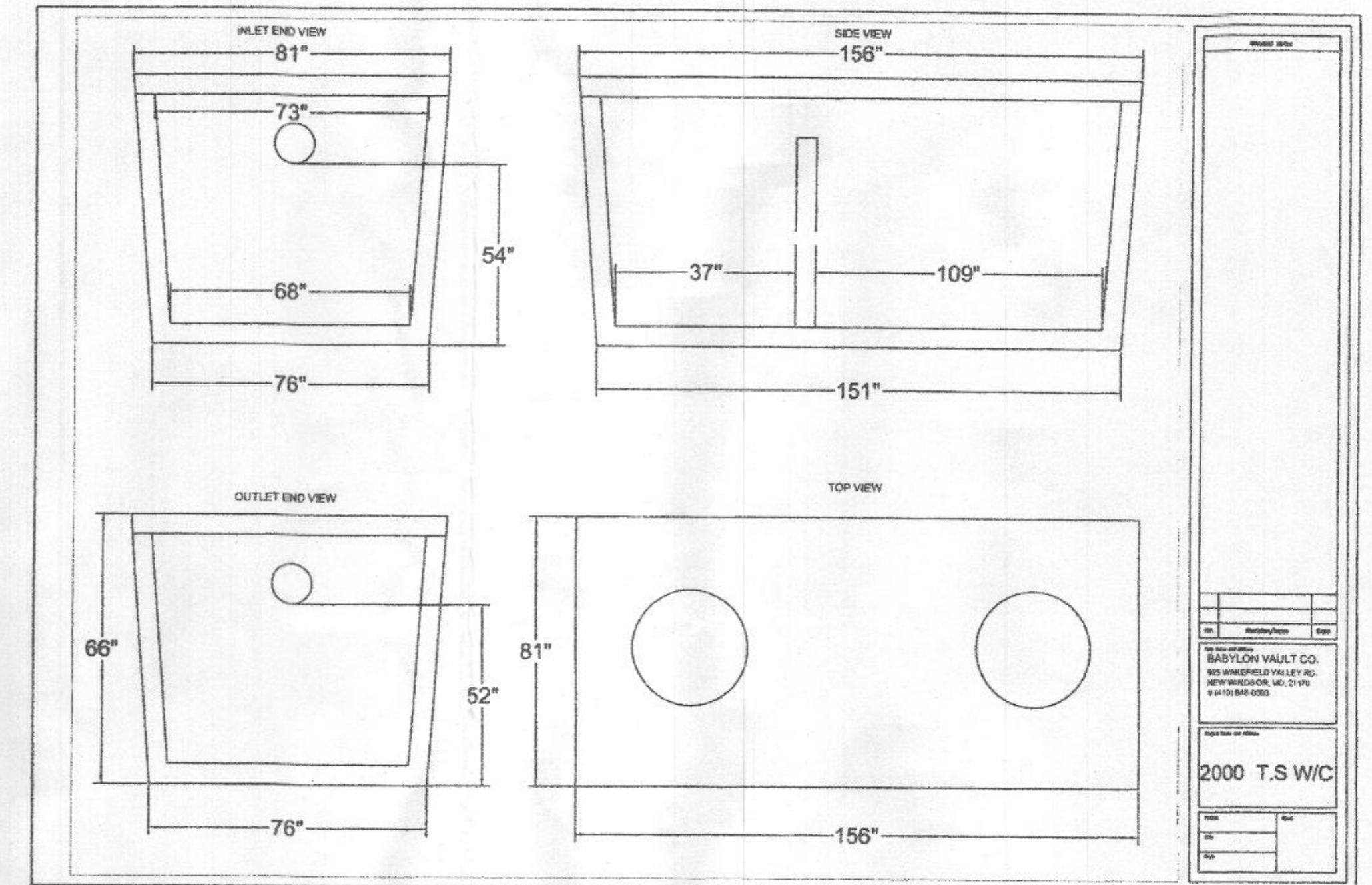
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 4)) = 0.416$
TRENCH LENGTH = 937.5 SF x 0.416 = 390.0 FEET
(USE 4 TRENCHES AT 32.50 LF.)
TRENCH SPACING = 2D+W = (2 \times 4) + 3 = 11' USE 11'

2ND REPLACEMENT SYSTEM

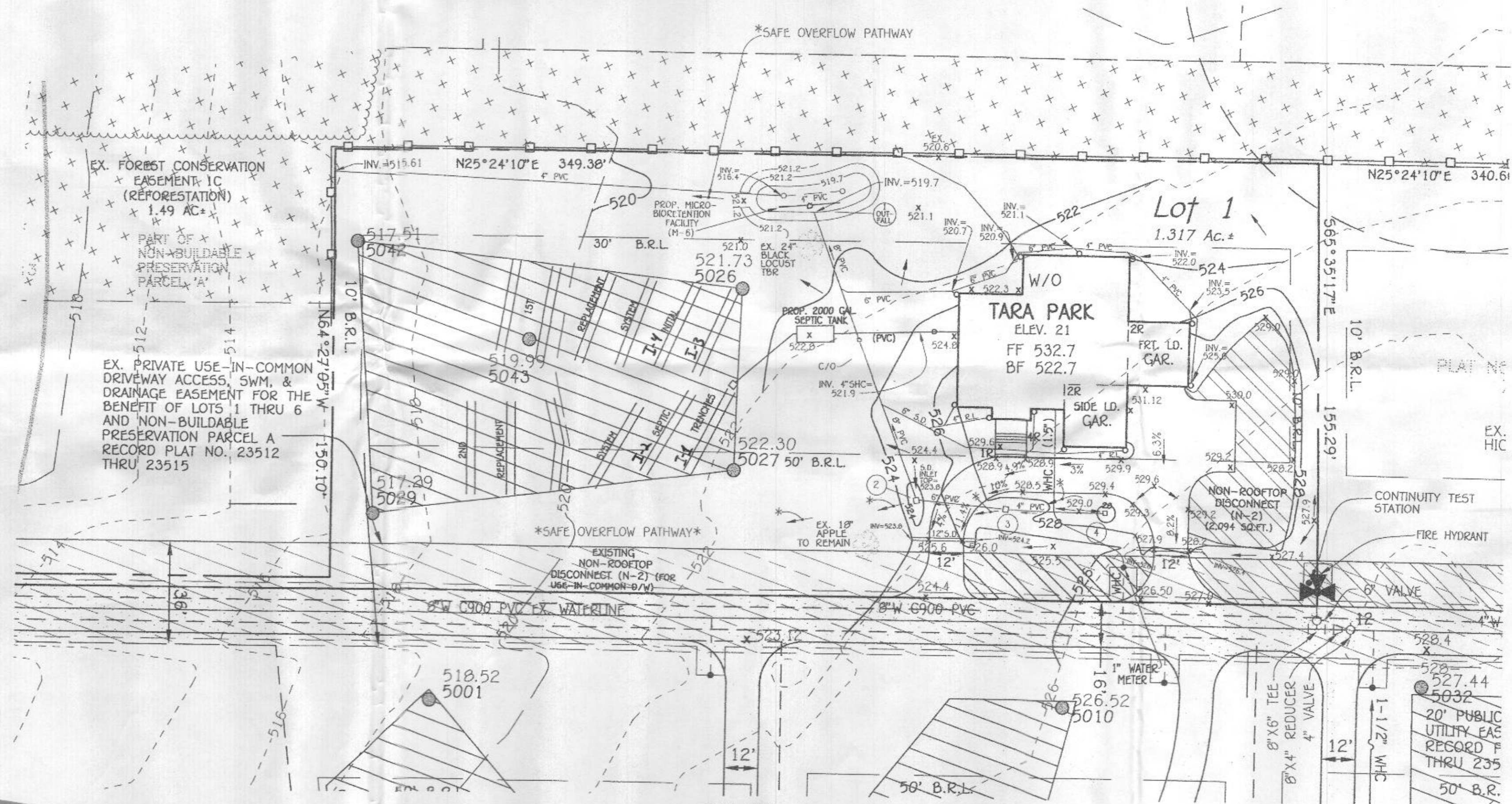
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 4)) = 0.416$
TRENCH LENGTH = 937.5 SF x 0.416 = 390.0 FEET
(USE 4 TRENCHES AT 32.50 LF.)
TRENCH SPACING = 2D+W = (2 \times 4) + 3 = 11' USE 11'

TRENCH DATA:

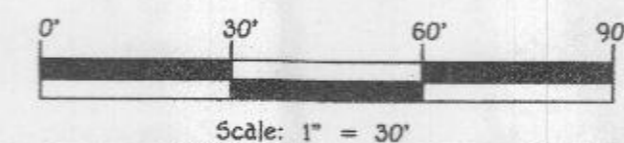
- TRENCH 1:
EX. GROUND ABOVE = 521.9
INV. IN = 518.9
BOTTOM TRENCH = 515.9
- TRENCH 2:
EX. GROUND ABOVE = 521.7
INV. IN = 518.7
BOTTOM TRENCH = 515.7
- TRENCH 3:
EX. GROUND ABOVE = 521.7
INV. IN = 518.7
BOTTOM TRENCH = 515.7
- TRENCH 4:
EX. GROUND ABOVE = 521.3
INV. IN = 518.3
BOTTOM TRENCH = 515.3



SEPTIC PROFILE
SCALE: 1"=30'



APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
Madison for Monica Roszman
COUNTY HEALTH OFFICER
DATE: 4/22/2019



LEGEND	
	EXISTING CONTOURS
	EXISTING 10' CONTOURS
	PROPOSED CONTOURS
	SPOT ELEVATIONS
	EX. FENCE LINE (CHAIN WIRE & METAL POSTS)
	EX. FENCE LINE (SPLIT RAIL OR SLAT FENCE)
	EX. LIMIT OF TREES AND FOREST
	PROPOSED TREE LINE
	EXISTING TREES
	ROOFTOP DISCONNECTION (R-1) & SHEET FLOW TO NATURAL CONSERVATION AREA (N-1)
	NON-ROOFTOP DISCONNECTION (N-2)
	EXISTING ROAD & PROPOSED DRIVEWAY PAVING
	PROPOSED FOREST CONSERVATION EASEMENT (REFORESTATION)
	EXISTING & PROPOSED SEWAGE DISPOSAL AREA
	SOIL LINES AND TYPES
	PUBLIC WATER AND UTILITY EASEMENT
	PRIVATE USE-IN-COMMON DRIVEWAY ACCESS, STORMWATER MANAGEMENT & DRAINAGE EASEMENT

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21142
(410) 461-2095

NO.	REVISION	DATE



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. 38336, EXPIRATION DATE: 01/12/20.

DEVELOPER'S CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

Shehmar J. Tuttle
DATE: 3/28/19

OWNERS / DEVELOPER
SREHAR & ANITHA BANALA
10717 HILLINGTON ROAD
WOODSTOCK, MARYLAND 21163
443-829-8905

Shehmar J. Tuttle
DATE: 3/27/2019

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kentle O. ...
Chief, Division of Land Development
Date: 5-2-19

...
Chief, Development Engineering Division
Date: 5-1-19

...
Director - Department of Planning and Zoning
Date: 5-2-19

MAPLE VIEW	SECTION	LOTS NO.
PLAT 23512 - 23515	GRID NO. 15	ZONE RC-DEO
TAX/ZONE 16	ELEC. DIST. 3	CENSUS TR. 6030.04

SEPTIC SYSTEM INSTALLATION SITE PLAN			
MAPLE VIEW			
LOT 1			
A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3 ZONED RC-DEO			
TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88			
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
SCALE: AS SHOWN DATE: MARCH 27, 2019			
SHEET 3 OF 4			

SDP-19-041

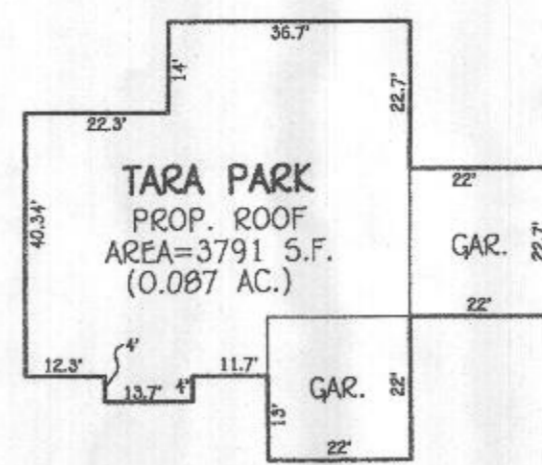
SIZE	CLASS	LENGTH/QUANTITY
4"	PVC SCH. 40	34 L.F.
6"	PVC SCH. 40	31 L.F.
8"	HDPE CORRUGATED	158 L.F.
6" x 8" WYE	PVC SCH. 40	QUANTITY= 2

NOTE: PVC PIPE MAY BE SUBSTITUTED WITH HDPE PIPE AND HDPE PIPE MAY BE SUBSTITUTED WITH PVC PIPE.

STORMWATER MANAGEMENT PRACTICES					
LOT NO.	ADDRESS	DISCONNECTION OF ROOFTOP RUNOFF (N-1) Y/N, NUMBER	DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2) Y/N	DRY WELLS (M-5) Y/N, NUMBER	MICRO-BIORETENTION (M-6) Y/N, NUMBER
1	2911 MAPLE LEAF WAY	0	1	NO	1

STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	562	678	MICRO-BIORETENTION FACILITY (M-6) NON-ROOFTOP DISCONNECTION (N-2)
TOTAL	562	678	

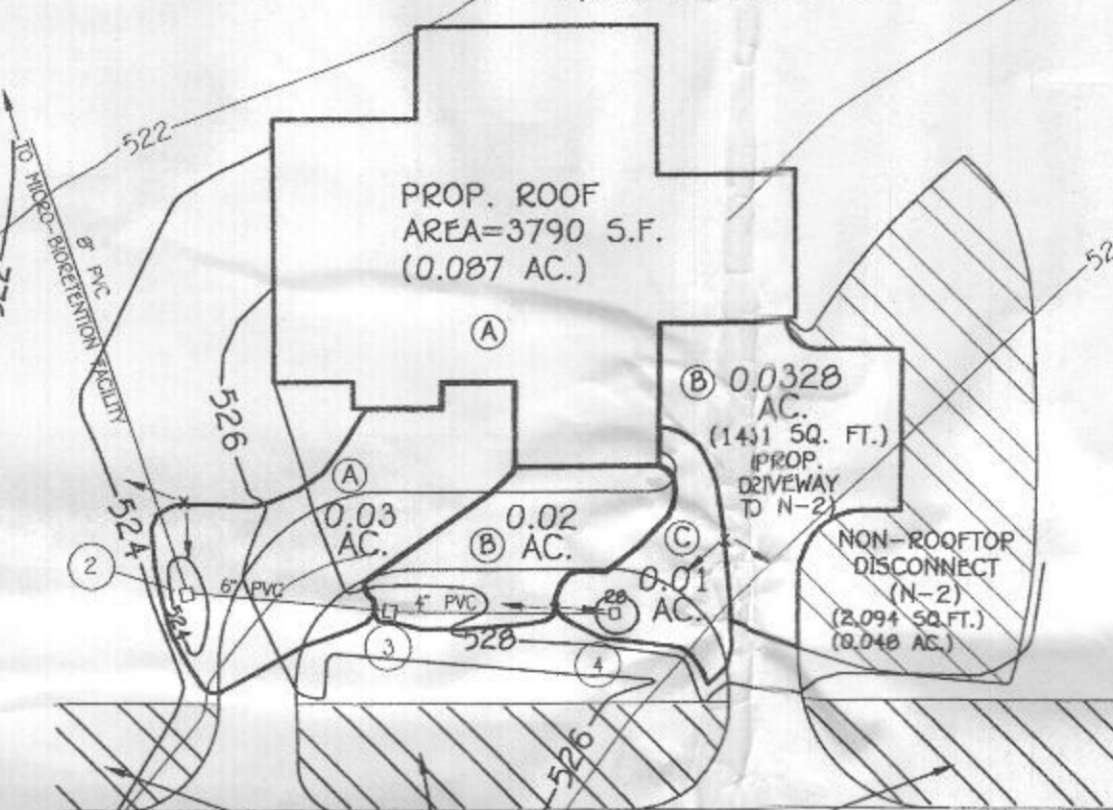
GROSS AREA = 1.32 ACRES LUD = 0.89 ACRES
RCN = 55 TARGET Pe = 1"



NOTE: AREAS (A), (B) & (C) AND PROPOSED HOUSE, DRAIN TO PROPOSED MICRO-BIORETENTION FACILITY.

TOTAL AREA TO MICRO-BIORETENTION FACILITY=6316.2 SQ. FT. (0.145 AC.)

TOTALS FOR AREAS (A), (B) & (C)
PAVED AREA=0.029 AC.
GRASS AREA=0.029 AC.



OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DECAYED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

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. 38386, EXPIRATION DATE: 01/15/2020.

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

Signature: Stephen J. Tritt
DATE: 3/20/19

DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (DCE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD SOIL CONSERVATION DISTRICT AND/OR DES.

Signature: Srikanth P. Banala
DATE: 3/21/2019

BUILDER

CARUSO HOMES
2120 BALDWIN AVENUE
SUITE 200
CROFTON, MARYLAND 21114
301-832-6426

OWNERS / DEVELOPER

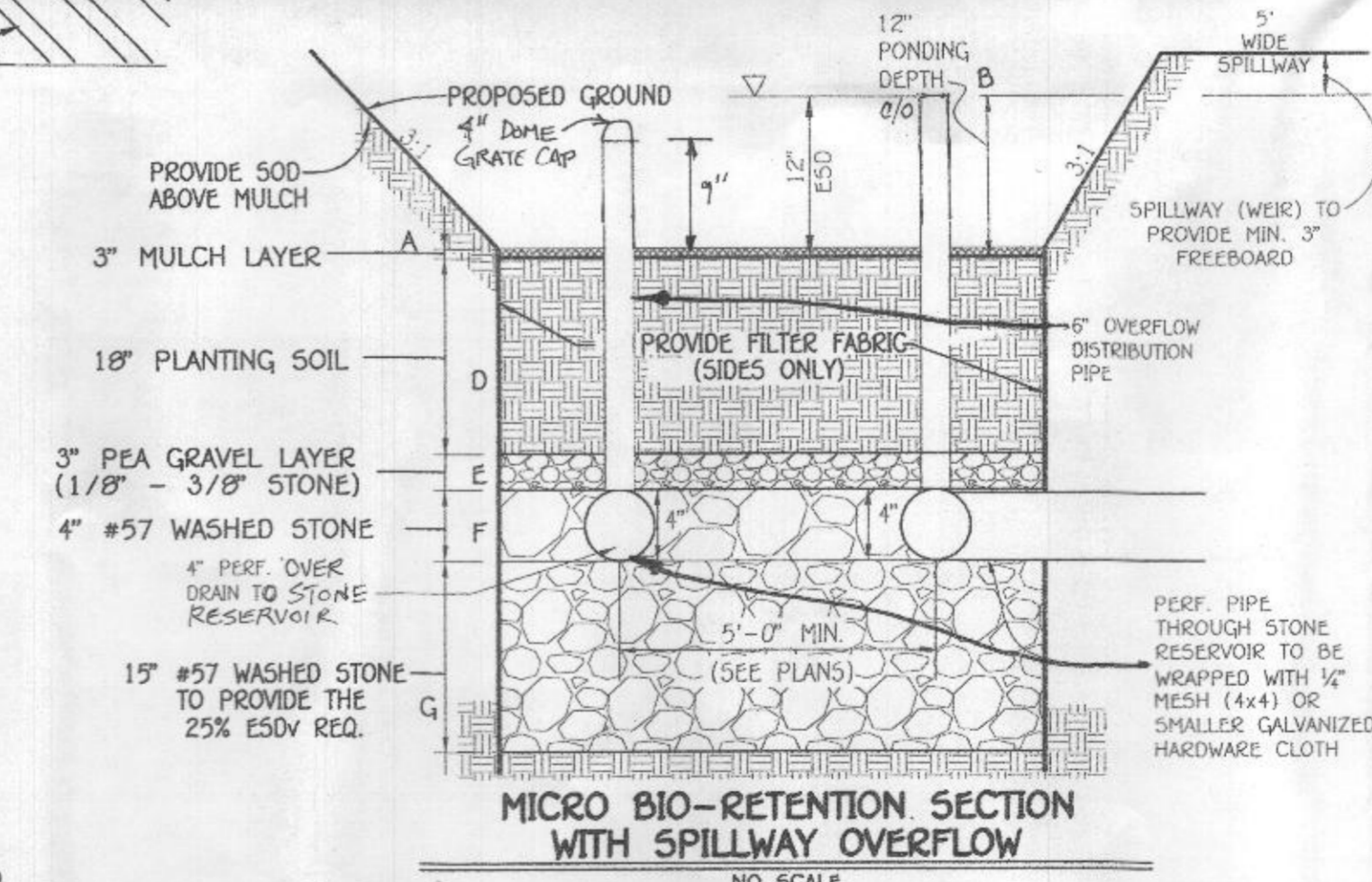
SIDDHAR & ANITHA BANALA
10717 HILLINGTON ROAD
WOODSTOCK, MARYLAND 21163
443-829-8905

MICRO-BIORETENTION PLANTING DETAIL

SCALE: 1"=20'

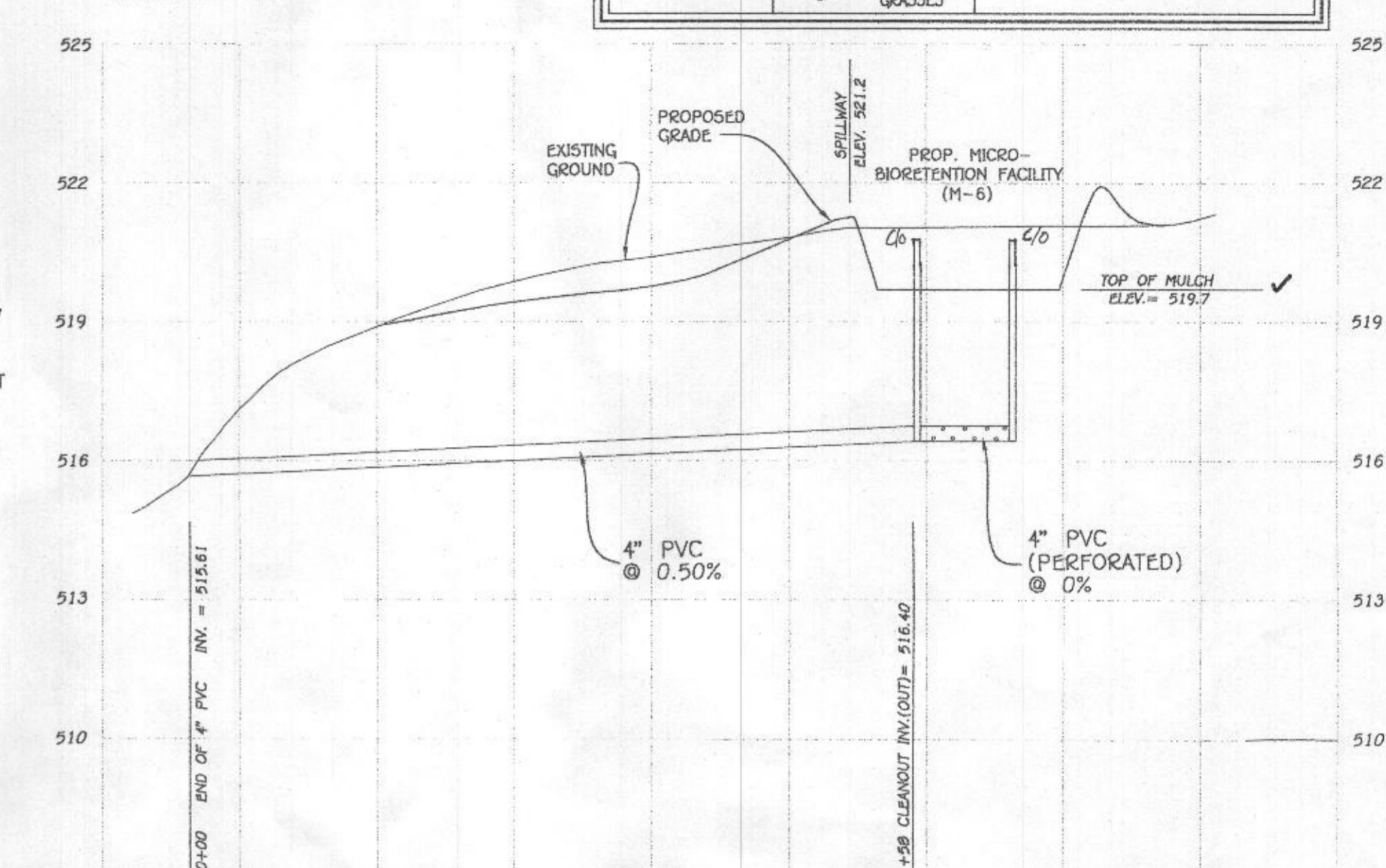
STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- PART OF THE PROPOSED DRIVEWAY IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2) AND THE REMAINDER IS AND THE PROPOSED HOUSE ROOF AREA IS BEING CONVEYED TO THE MICRO-BIORETENTION FACILITY (M-6).
- FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.



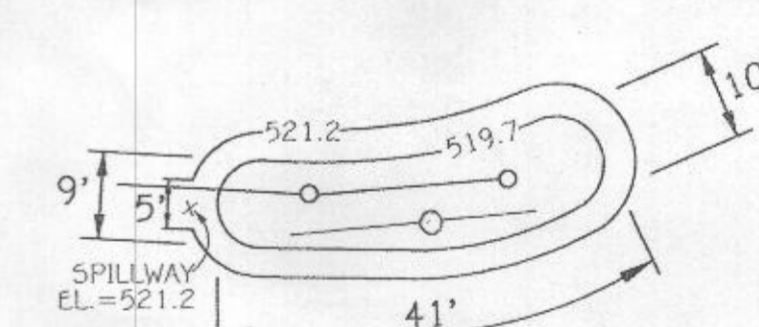
MICRO-BIORETENTION PROFILE

SCALE: HORIZ. 1"=30'
VERT. 1"=3'



MICRO-BIORETENTION GRADING DETAIL

SCALE: 1"=20'

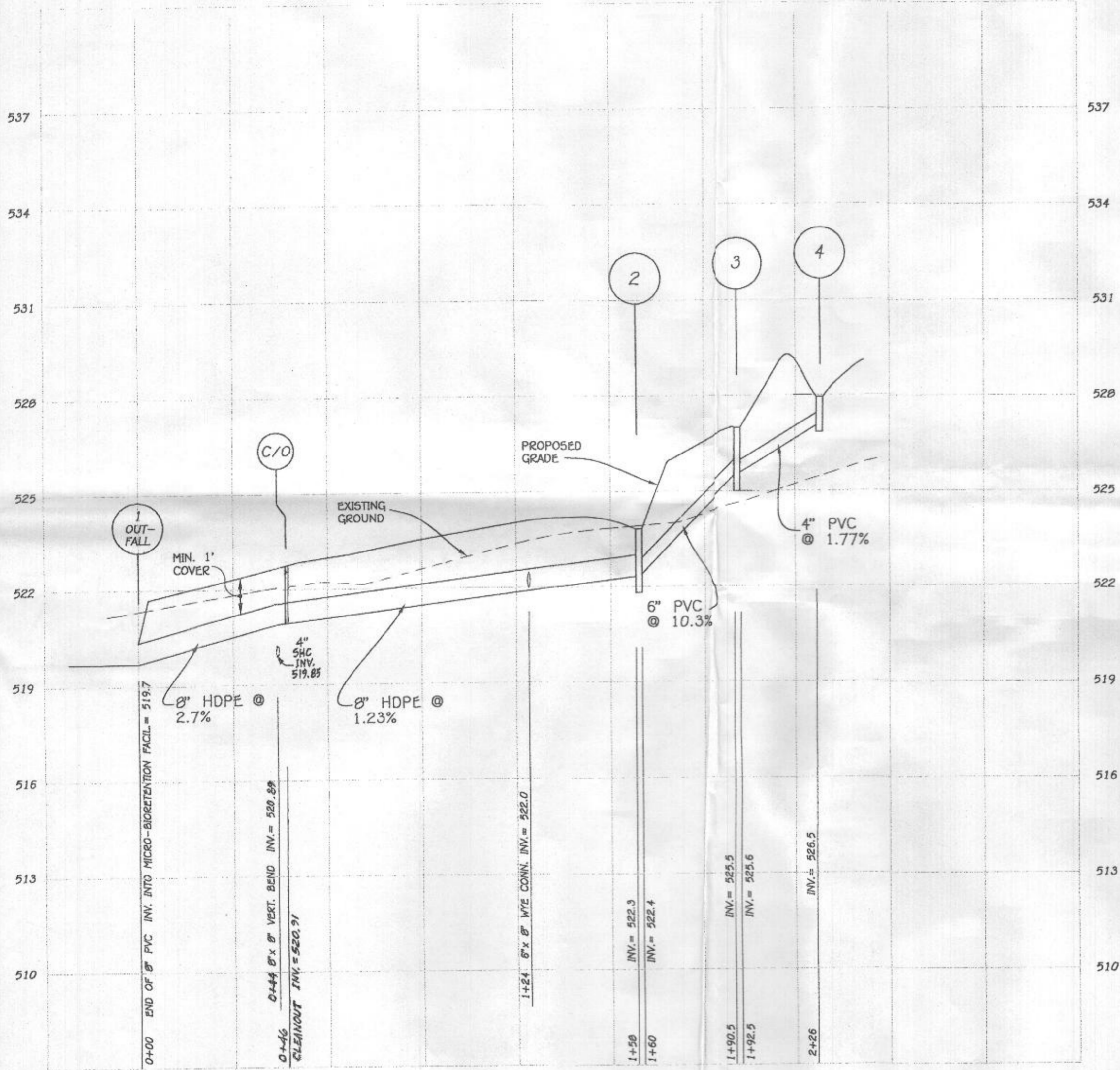


MICRO-BIORETENTION DETAIL

SCALE: 1"=20'

PRIVATE STORMDRAIN SYSTEM STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	TYPE - SIZE	PIPE SIZE OUT	PIPE SIZE IN	REMARKS
1	---	519.5 (8")	---	---	---	8"	END OF HDPE @ MICRO-BIORETENTION FACILITY
2	523.8	522.4 (6")	522.3 (8")	NDS CATCH BASIN 24" x 24" SQUARE GRATE	6"	6"	
3	527.0	525.6 (4")	525.5 (6")	NDS CATCH BASIN 24" x 24" SQUARE GRATE	6"	4"	
4	527.9	---	526.5 (4")	NDS CATCH BASIN 12" x 12" SQUARE GRATE	4"	---	



This Development Plan is approved for Soil Erosion and Sediment Control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Signature: Kent Balaban
Date: 5-2-19

Signature: [Signature]
Date: 9-1-19

Signature: [Signature]
Date: 5-2-19

PROJECT: MAPLE VIEW SECTION: N/A LOTS NO.: LOT 1

PLAT: 23512 - 23515 GRID NO.: 15 ZONE: RC-DEO TAX/ZONE: 16 ELEC. DIST.: 3 CENSUS TR.: 6030.04

STORMDRAIN PROFILES & DETAILS AND STORMWATER MANAGEMENT DETAILS

MAPLE VIEW
LOT 1
A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3
ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MARCH 27, 2019
SHEET 4 OF 4