

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL PLAN, LANDSCAPE & DRAINAGE AREAS
3	SEDIMENT AND EROSION CONTROL
4	DETAILS AND PROFILE
5	ONSITE AND OFFSITE FOREST CONSERVATION
6	FOREST CONSERVATION AND LANDSCAPE DETAILS
7	SEDIMENT CONTROL NOTES

STORMWATER MANAGEMENT NOTES

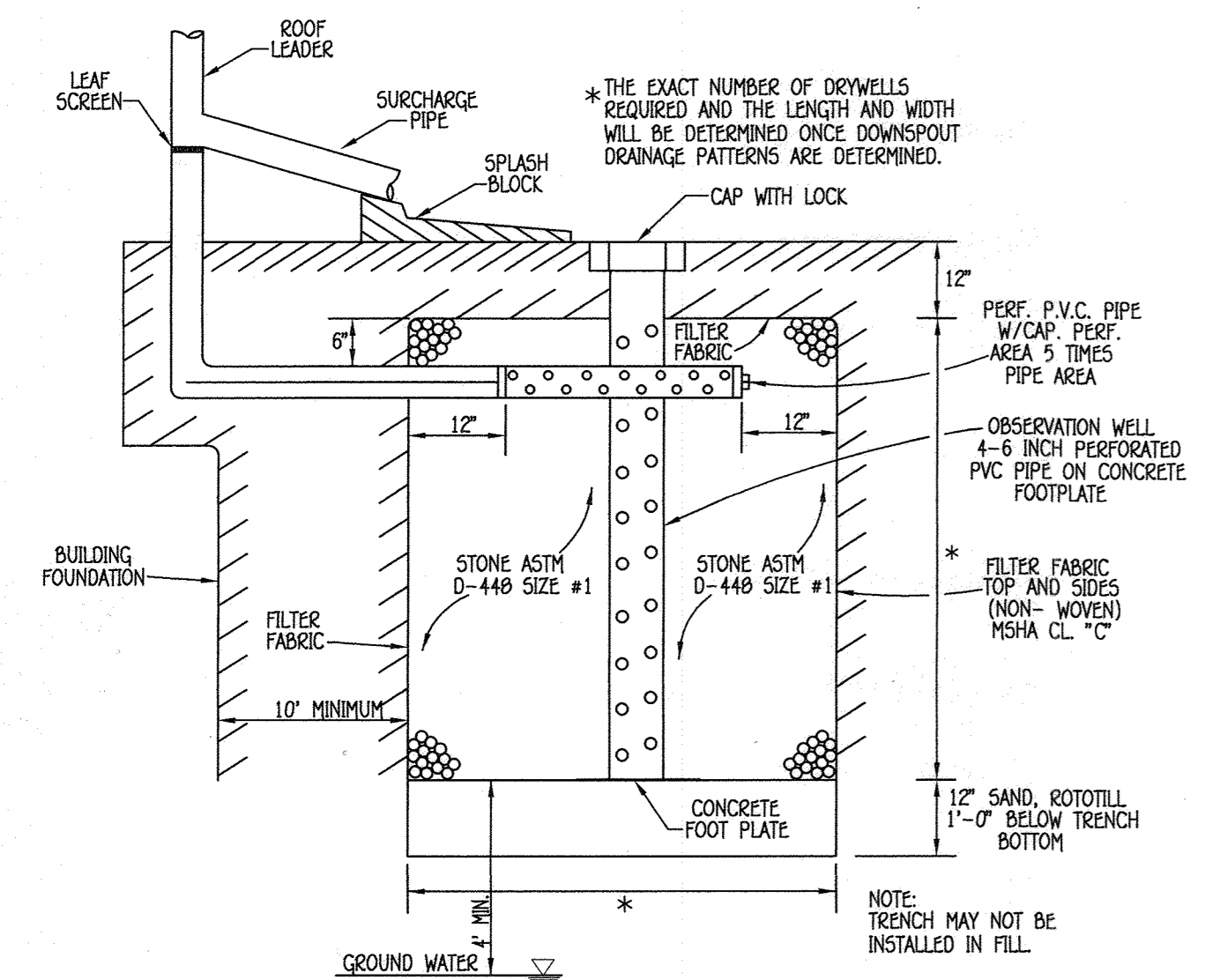
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 0% SLOPE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THE SITE DEVELOPMENT PLAN.

SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
GgA	Glenelg loam, 0 to 3 percent slopes	B	0.20
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.20
GgC	Glenelg loam, 8 to 15 percent slopes	B	0.20
Gmb	Glenville silt loam, 3 to 8 percent slopes	C	0.37

*Denotes Highly Erodible Soils

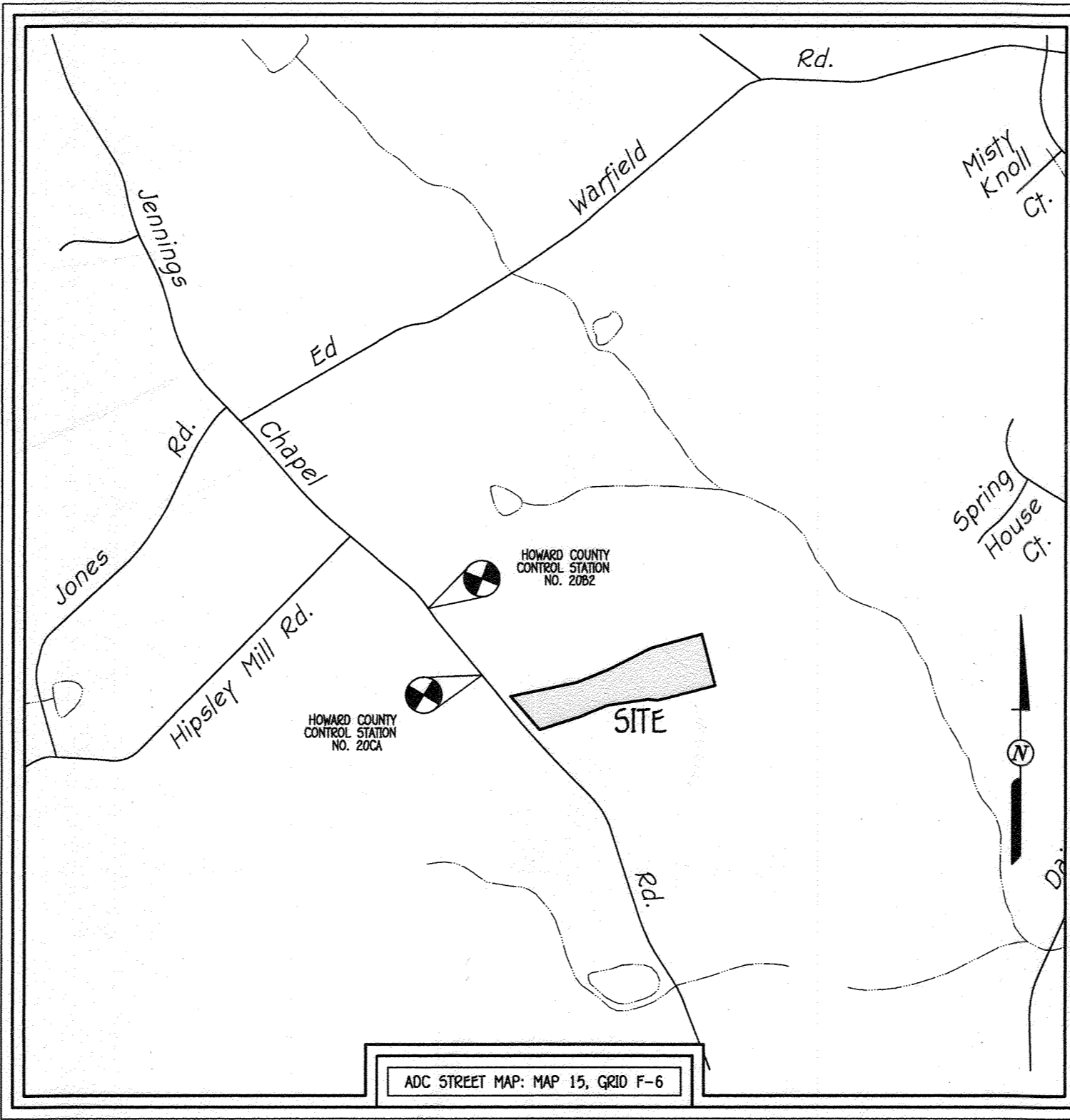
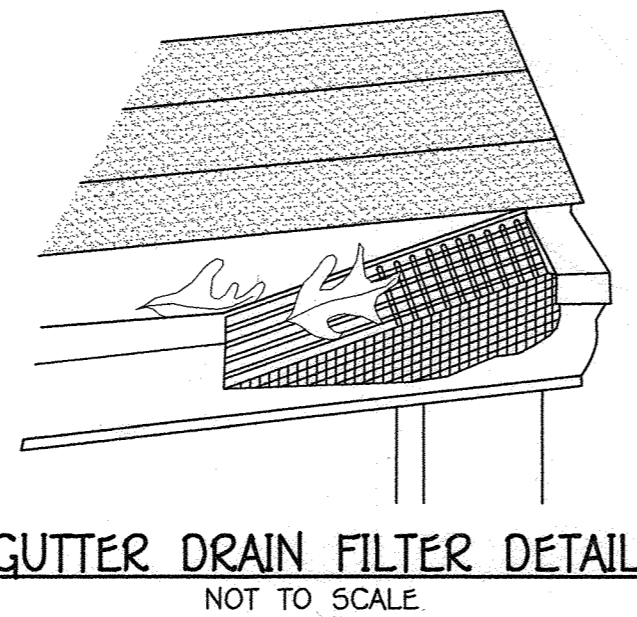
STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	4,174	4,228	DRYWELLS (M-5), MICRO-BIORETENTION (M-6), & NON-ROOFTOP DISCONNECTION (N-2)
TOTAL	4,174	4,228	

GROSS AREA = 9.77 ACRES
 SITE AREA / LOD = 4.72 ACRES
 RCN = 56.7
 TARGET Pe = 1.2'



OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DEGRADATES.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.



SITE ANALYSIS DATA CHART

- TOTAL AREA OF THIS SUBMISSION = 9.774 AC.
- LIMIT OF DEVELOPABLE AREA = 9.774 AC. (LOTS)
- LIMIT OF DISTURBED AREA = 205,478 SQ. FT. OR 4.72 AC.
- PRESIDENT ZONING DESIGNATION = RC-DEO (PER 10/06/13 COMPREHENSIVE ZONING PLAN).
- PROPOSED USE: RESIDENTIAL SUBDIVISION (SINGLE FAMILY DETACHED)
- OPEN SPACE ON SITE: N/A
- RECREATIONAL AREA PROVIDED: N/A
- BUILDING COVERAGE OF SITE: 11,550 SQ. FT. OR 0.265 AC.
- PREVIOUS HOWARD COUNTY FILES: F-16-120, ECP-17-036
- TOTAL AREA OF FLOODPLAIN: 0.00 AC.
- NET TRACT AREA = 9.774 AC.
- TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA = 9.774 AC.
- TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
- TOTAL AREA OF STREAMS (INCLUDING BUFFER) = 0.00 AC.
- TOTAL AREA OF FOREST = 3.80 AC.
- TOTAL IMPERVIOUS AREA = 0.84 AC.
- AREA OF ERODIBLE SOILS = 1.01 AC.

DRYWELL CHART								
DRYWELL NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L	W	D	REMARKS
1a	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 1
1b	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 1
1c	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 1
1d	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 1
2a	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 2
2b	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 2
2c	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 2
2d	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 2
3a	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 3
3b	1,000 SQ. FT.	95 C.F.	160 C.F.	100%*	10	8	5'	LOT 3

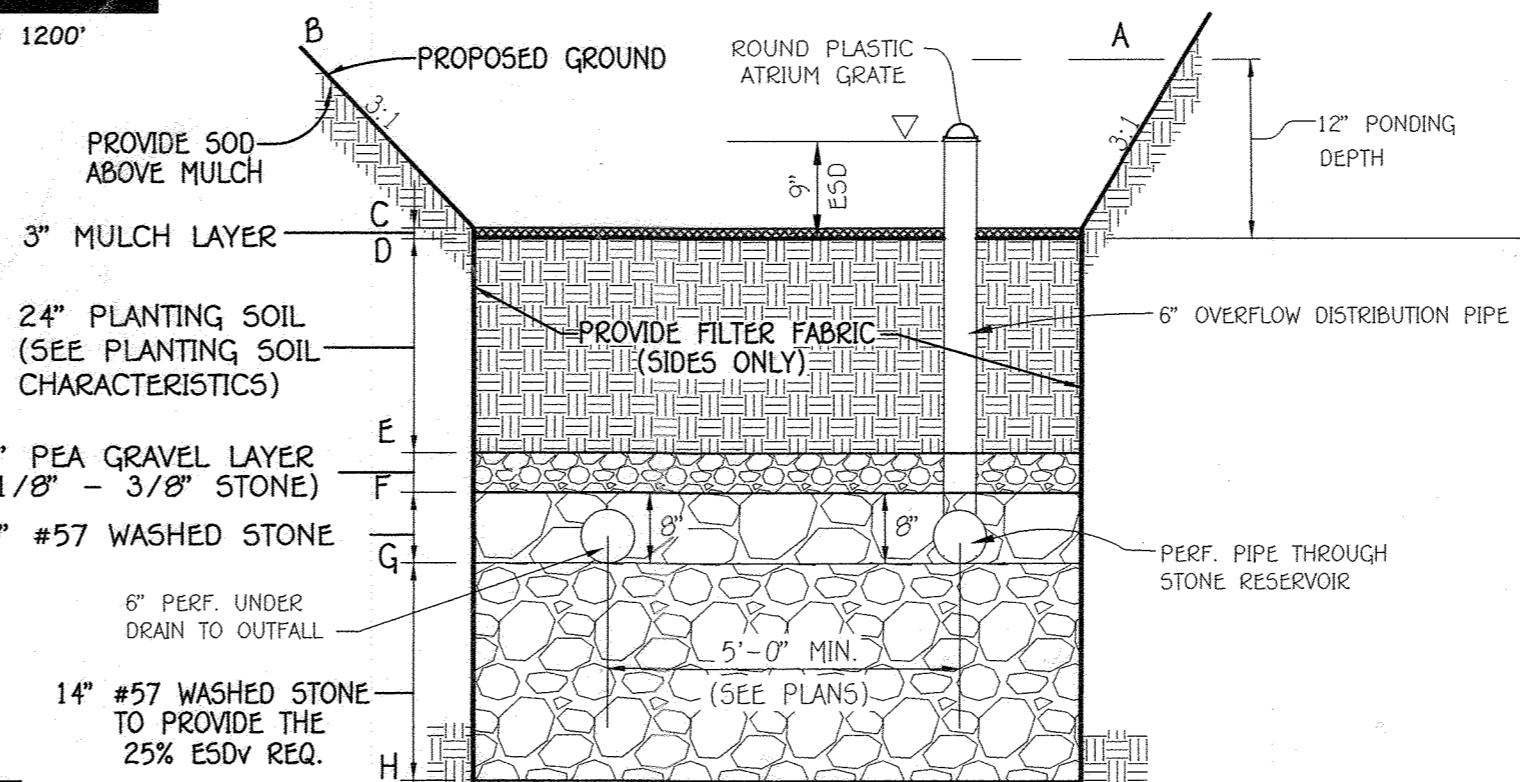
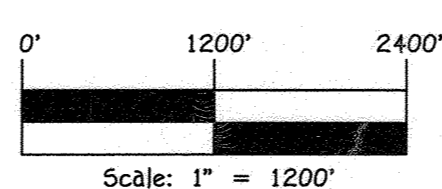
* AREA OF TREATMENT EXCEEDS THAT REQUIRED.

MICRO-BIORETENTIONS									
MICRO-BIORETENTION FILTER	A	B	C	D	E	F	G	H	I
LOT 3	540.0	540.0	539.0	538.75	536.75	536.48	535.75	534.58	535.5

MICRO-BIORETENTION PLANT MATERIAL		
MICRO-BIO QUANTITY	NAME	MAXIMUM SPACING (FT.)
130	MIXED PERENNIALS	1.5 TO 3.0 FT.
2	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

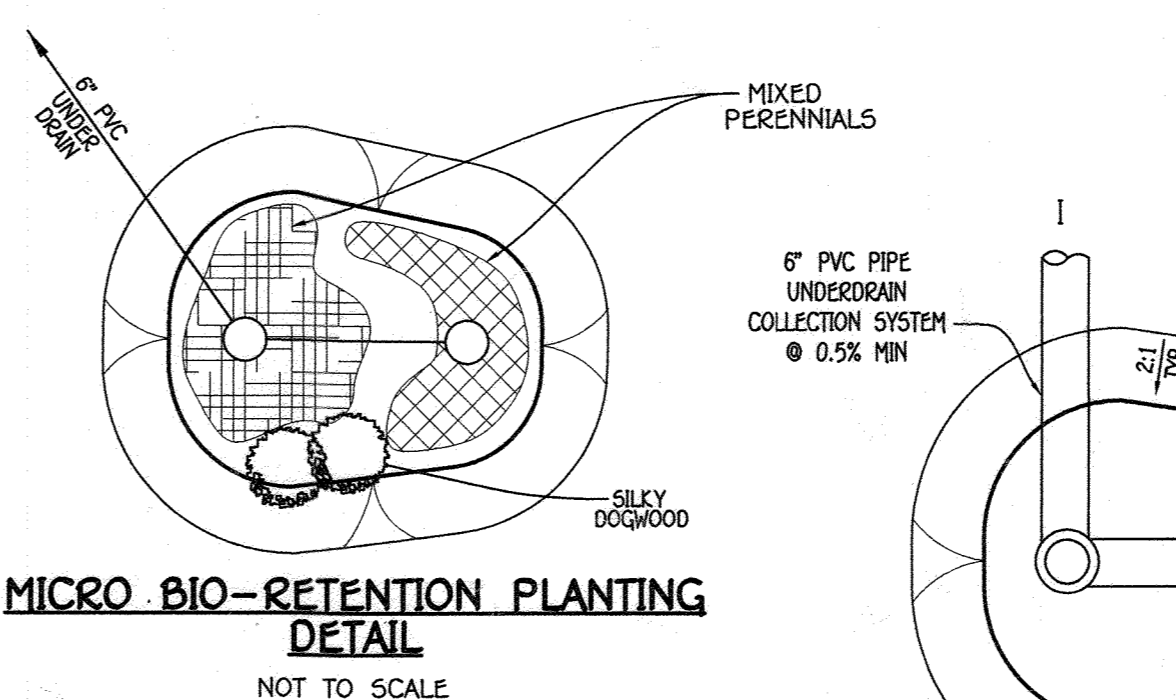
STORMWATER MANAGEMENT PRACTICES				
LOT No.	ADDRESS	DRYWELLS (M-5) (NUMBER)	MICRO-BIO (M-6) (NUMBER)	NON-ROOFTOP DISCONNECTION (N-2) (NUMBER)
1	3351 JENNINGS CHAPEL RD.	4	0	0
2	3355 JENNINGS CHAPEL RD.	4	0	0
3	3359 JENNINGS CHAPEL RD.	2	1	0
-	(USE-IN-COMMON)	0	0	0

VICINITY MAP



MICRO BIO-RETENTION SECTION WITH 6" OVERFLOW DISTRIBUTION PIPE

NO SCALE



General Notes:

- Subject Property is Zoned RC-DEO Per The 10/06/13 Comprehensive Zoning Plan.
- Coordinates Based On NAD '83, Maryland Coordinate System As Projected By Howard County Geodetic Control Stations No. 2082 And No. 20CA.
- This Plan is Based On Field Run Monumented Boundary Survey Performed On Or About February, 2016 By Fisher, Collins & Carter, Inc.
- B.R.L. Denotes Building Restriction Line.
- Denotes Iron Pin Set Capped "F.C.C. 106".
- Denotes Iron Pipe Or Iron Bar Found.
- Denotes Angular Change In Bearing Of Boundary Or Rights-Of-Way.
- Denotes Concrete Monument Set With Aluminum Plate "F.C.C. 106".
- Denotes Concrete Monument Or Stone Found.
- All Areas Are More Or Less (L).
- Distances Shown Are Based On Surface Measurement And Not Reduced To NAD '83 Grid Measurement.
- Flag Or Pipe Stem Lots, Refuse Collection, Snow Removal And Road Maintenance Are Provided To The Junction Of Flag Or Pipe Stem And Road Right-Of-Way Line Only And Not Onto The Flag Or Pipe Stem Lot Driveway.
- Driveways Shall Be Provided Prior To Residential Occupancy To Insure Safe Access For Fire And Emergency Vehicles Per The Following (Minimum) Requirements:
 - Width - 12 Feet (16 Feet Serving More Than One Residence);
 - Surface - Six (6") Inches Of Compacted Crusher Run Base With Tar And Chip Coating (1-1/2" Minimum);
 - Geometry - Maximum 15% Grade, Maximum 10% Grade Change And 45-Foot Turning Radius;
 - Structures (Culverts/Bridges) - Capable Of Supporting 25 Gross Tons (H25-Loading);
 - Drainage Elements - Capable Of Safely Passing 100 Year Flood With No More Than 1 Foot Depth Over Surface;
 - Structure Clearances - Minimum 12 Feet;
 - Maintenance - Sufficient To Ensure All Weather Use.
- Property Subject To Prior Department Of Planning And Zoning File No's: F-16-120 And ECP-17-036.
- To The Best Of Our Knowledge, No Cemeteries Exist On Site By Both Visual Observation And Review Of Available Howard County Information.
- There Are No 100 Year Floodplain, Wetlands, Streams Or Their Buffers On This Site.
- Traffic Study Is Not Required For This Minor Subdivision.
- This Property Is Not Located In A Historic District.
- There Is One Existing Structure (Shed) And Wood Piling Located Onsite, Both Are To Be Removed.
- The Lots Shown Comply With The Minimum Ownership Width And Lot Area As Required By The Maryland State Department Of The Environment.
- Articles Of Incorporation For The Square Woods Homeowners Association, Inc. was filed with the State Department Of The Environment.
- All Wells Have Been Drilled Prior To Final Plat Recordation. See Record Plat.
- No Noise Study Is Required Because The Project Does Not Fall Within The Guidelines Of Design Manual, Volume III, Roads, Bridges, Section 5.2.F.2.
- A Letter Of Findings Dated January 18, 2017 Prepared By Eco-Science Professionals, Inc. Determined That There Are No Wetlands, Wetland Buffer, Stream And Stream Buffer Located Within The Limits Of The Final Plat.
- Site Is Adjacent To One Scenic Road (Jennings Chapel Road). A Scenic Roads Report Has Been Provided By Fisher, Collins & Carter, Inc. Dated 01/18/17.
- Forest Stand Delineation And Wetland Delineation Was Prepared By Eco-Science Professionals, Inc. Dated January, 2017.
- This Plan Has Been Prepared In Accordance With The Provisions Of Section 16.124 Of The Howard County Code And The Landscape Manual, A Landscape Surety For 31 Shade Trees @ \$300/Tree, 18 Evergreen Trees @ \$150/Tree, And 125 Shrubs @ \$30/Shrub In The Amount Of (\$15,750.00) Will Be Posted As Part Of The Builders Grading Permit For Lot 1 In The Amount Of \$3,900 (9 Shade Trees & 8 Evergreen Trees), For Lot 2 In The Amount Of \$0, And For Lot 3 In The Amount Of \$11,850 (22 Shade Trees, 10 Evergreen Trees & 125 Shrubs).
- The Forest Conservation Easement Within This Subdivision Have Been Established To Fulfill The Requirements Of Section 16.1200 Of The Howard County Code And The Forest Conservation Act. No Clearing, Grading Or Construction Is Permitted Within The Forest Conservation Easement; However, Forest Management Practices As Defined In The Deed Of Forest Conservation Are Allowed. The Forest Conservation Act Requirements For Subdivision Will Be Met Through The On-Site Retention Of 1.50 Acres; Off-Site Planting Of 1.82 Acres On The Parcel 94, Tax Map 20, And Off-Site Planting (Reforestation) Of 0.40 Acres On Lot 1, Classco Property (Flat Nos. 24070 And 24071). The Planting (Reforestation) Will Require Posting A Total Forest Surety Of \$48,352.00 (2.22 Acres x 43,560 Sq. Ft./Acre x \$0.50 Per Square Foot) With The Developers Agreement The Private Use-In-Common Driveway Access Easement And Maintenance Agreement For Shared Driveway On Lots 2 And 3 Is Recorded Simultaneously With The Plat.
- This Plan Is In Compliance With The Amended Fifth Edition Of The Subdivision And Land Development Regulations Per Council Bill 45-2003 And The 10/06/13 Comprehensive Zoning Plan. Development Or Construction On These Lots Must Comply With Setback And Buffer Regulations In Effect At The Time Of Submission Of The Site Development Plan, Waiver Petition Application, Or Building/Grading Permit.
- In Accordance With Section 16.121 Of The Howard County Subdivision And Land Development Regulations, The Open Space Requirement For This Project Will Be Satisfied By The Payment Of Fee-In-Lieu.
- Subdivision Is Subject To Section 104.0.F. Of The Zoning Regulations, At Least 10% Of The Dwelling Units Shall Be Moderate Income Housing Units (M.I.H.U.) Or An Alternative Compliance Will Be Provided. The Developer Shall Execute A M.I.H.U. Agreement With The Department Of Housing To Indicate How The M.I.H.U. Requirement Will Be Met. The M.I.H.U. Agreement And Covenants Will Be Recorded Simultaneously With This Plat In The Land Records Office Of Howard County, Maryland. This Development Will Meet M.I.H.U. Alternative Compliance By A Payment Of A Fee-In-Lieu To The Department Of Housing For Each Required Unit.
 - M.I.H.U. Required - (3 Lots x 10%) = 0.3 M.I.H.U.
 - M.I.H.U. Proposed - Developer Will Pursue Alternative Compliance By Paying A Fee-In-Lieu To The Department Of Housing For The Units Required By The Development.
 - An Executed M.I.H.U. Agreement With The Howard County Housing Department Has Been Completed.
- An M.I.H.U. Agreement And Declaration Of Covenants Are Recorded Simultaneously With The Plat.
- A Pre-Submission Community Meeting Was Held For This Subdivision On August 22, 2016.
- A Noise Study Is Not Required For This Project.
- No Historic Structures Exist Within The Limits Of This Plat Subdivision.
- Stormwater Management Is In Accordance With The M.D.E. Storm Water Design Manual, Volumes I & II, Revised 2009. Stormwater Management Is Being Provided By The Use Of Ten Areas Of (M-5) Drywells, One (M-6) Micro-Bioretenation Facility And One Area Of (N-1) Non-Rooftop Disconnection. Facilities To Meet And Exceed The ESD Volume.
- Should Heavy Rock Or Water Be Encountered During Excavation To Install Any Of The Drywells Or Micro-Bioretenation, Contractor Will Be Required To Consult The Engineer Of Record To Come Up With An Alternative Design.
- All Construction Shall Be In Accordance With The Latest Standards And Specifications Of Howard County Plus MSHA Standards And Specifications If Applicable.
- The Contractor Shall Notify The Department Of Public Works / Bureau Of Engineering / Construction Inspection Division At (410) 313-1880 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.
- The Existing Topography Is Based On A Field Run Survey With Two (2) Foot Contour Intervals Prepared By Fisher, Collins & Carter, Inc. On Or About 07/21/2016.
- There Are Erodible Soils And Steep Slopes On This Site.
- All Construction Shall Be In Accordance With The Standards And Specifications Of Howard County Plus MSHA Standards And Specifications If Applicable.
- The Contractor Shall Notify The Department Of Public Works/Bureau Of Engineering/Construction Inspection Division At (410) 313-1880 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.
- The Existing Topography Is Based On A Field Run Topographic Survey With A Two (2') Foot Contour Intervals Prepared By Fisher, Collins & Carter, Inc. On Or About 07/21/2016.
- Water Is Private.
- Sewer Is Private.
- This Plat Is Subject To WP-18-042 Which On November 16, 2017 The Planning Director Approved A Request For An Alternative Compliance Of Section 6.120(b)(4)(iii)(B), Which States That A Lot Or Buildable Preservation Parcel Must Be 10 Acres Or Greater In Size To Allow Floodplains, Wetlands, Their Buffers, And Forest Conservation Easements To Be Located On The Lot Or Parcel. Approval Is Subject To The Following Conditions:
 - The Split Rail Fence (With No Wire Mesh Attachments) Shall Be Installed Along The Southern Boundary Of The Forest Conservation Easement On Lot 2, As Shown On The Alternative Compliance Plan Exhibit.
 - The Proposed Houses Shall Be No Closer To The Forest Conservation Easement Than:
 - Lot 1-100 Feet
 - Lot 2-70 Feet
 - Lot 3-47 Feet
 - Grading And Removal Of Vegetative Cover And Trees, Paving Or New Structures Will Not Be Permitted Within 35 Feet Of The Forest Conservation Easement On All Lots.
 - Compliance With SRC Comments For Final Plan, F-18-021.
- Open Space Requirements Are Provided By A Fee-In-Lieu Payment Of \$3,000.00.

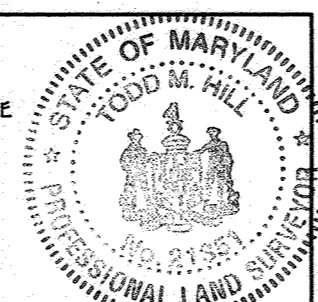
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10722 WILMOUTH NATIONAL PIKE
 ELKTON CITY, MARYLAND 21824
 (410) 461-2855

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development
 Date: 2/26/18
 Chief, Development Engineering Division
 Date: 2-1-18

PROFESSIONAL CERTIFICATION

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 NO. 21351, EXPIRATION DATE: 07/15/2019.

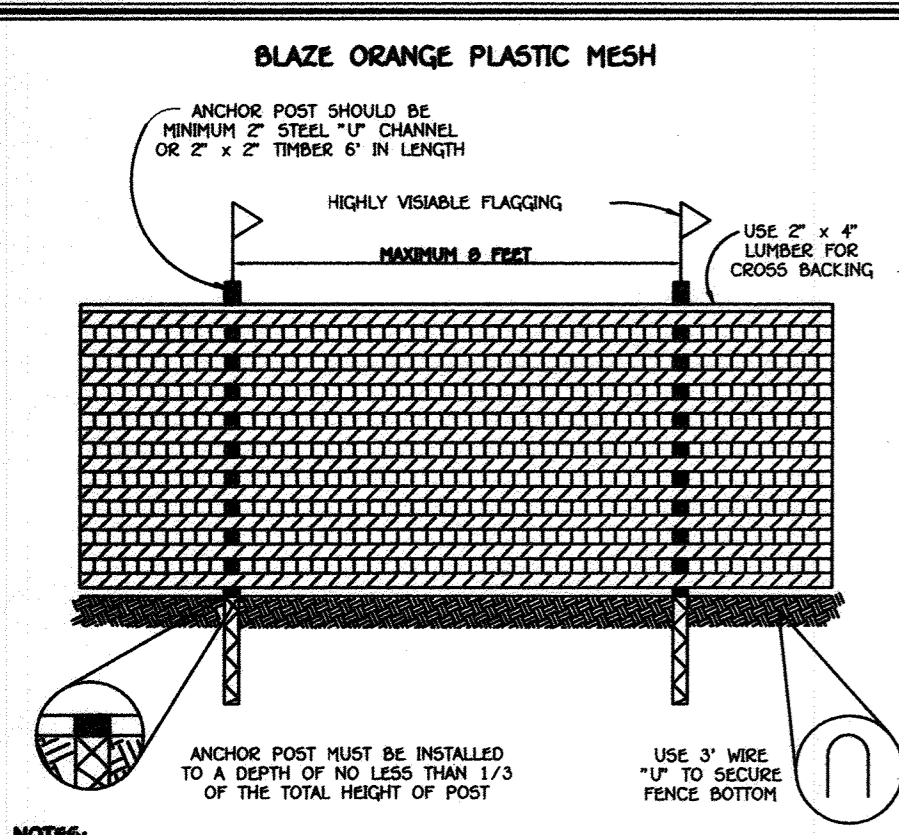
Signature of Professional Land Surveyor
 DATE: 1/10/2018



OWNER/DEVELOPER

PAUL A. CASASCO AND
 JENNIFER K. CASASCO
 3365 JENNINGS CHAPEL ROAD
 WOODBINE, MARYLAND 21797
 301-529-5728

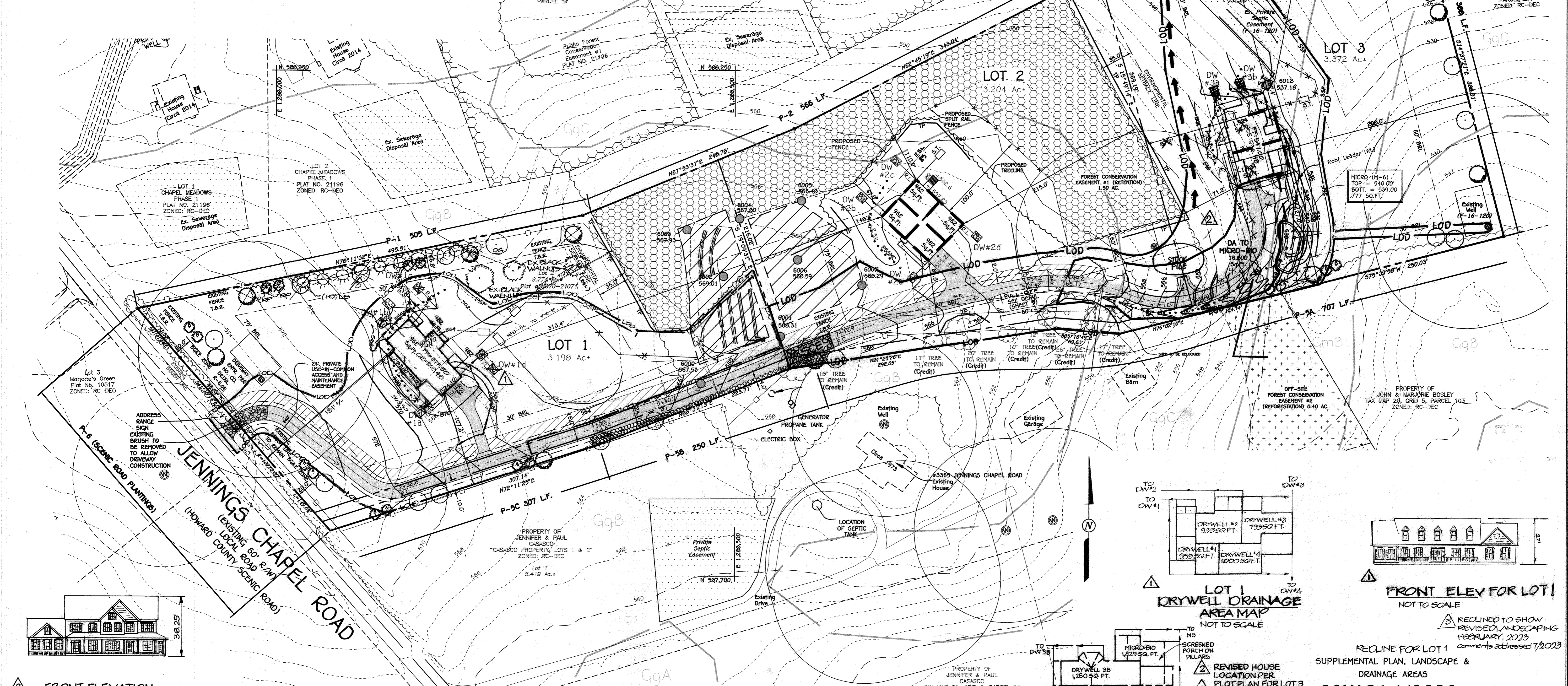
REVISION HOUSE LOCATION PER PLOT PLAN PER LOT 1
 REVISION TO SHOW REVISION LANDSCAPING FEBRUARY, 2023
 COMMENTS ADDED 7/2023
 email comments
 DATE: JANUARY 10, 2018
 SHEET 1 OF 7
 F-18-021



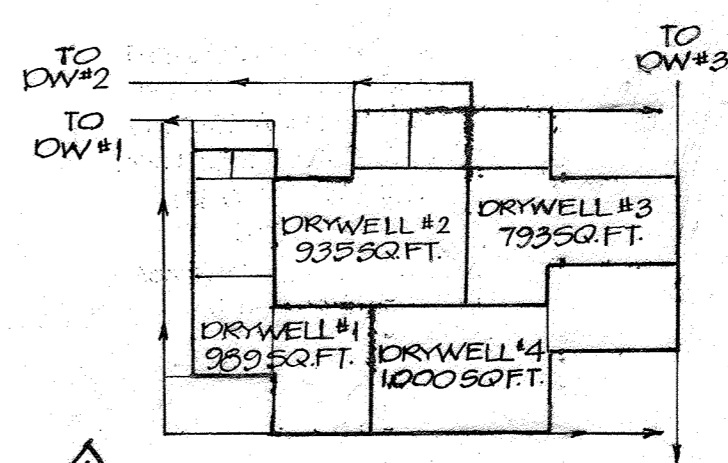
LEGEND		LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOILS LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		PROPOSED TREELINE
	15% TO 24.9% STEEP SLOPES (ERODIBLE SOILS)		EXISTING & PROPOSED PAVING
	FLOW ARROWS (DIRECTION OF FLOW)		PROPOSED SEPTIC TANK
	STABILIZES CONSTRUCTION ENTRANCE		SILT FENCE
	DRAINAGE AREA DIVIDE		PERMANENT SOIL STAB. MATTING CHANNEL
	CHECK DAM (TIMBER)		SUPER SILT FENCE
	TEMPORARY CHECK DAM (STONE)		TREE PROTECTION
	H.P. HIGH POINT		LOW POINT
	FOREST CONSERVATION EASEMENT (RETENTION)		FOREST CONSERVATION EASEMENT (REFORESTATION)
	PERCOLATION TEST LOCATION (PASSED)		FOREST CONSERVATION SIGNAGE
	EXISTING BRUSH LINE		EXISTING FENCE LINE

- NOTES:**
- FOREST PROTECTION DEVICES ONLY.
 - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - ROOT DAMAGE SHOULD BE AVOIDED.
 - PROTECTIVE SIGNAGE MAY ALSO BE USED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

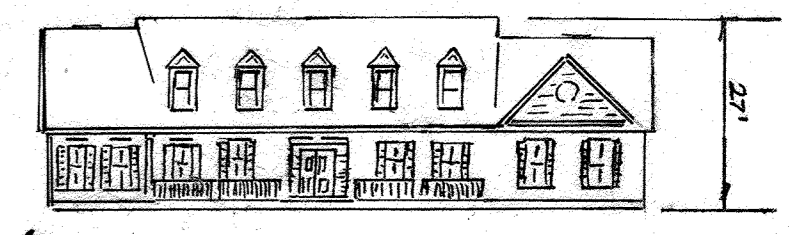
TREE PROTECTION DETAIL
NOT TO SCALE



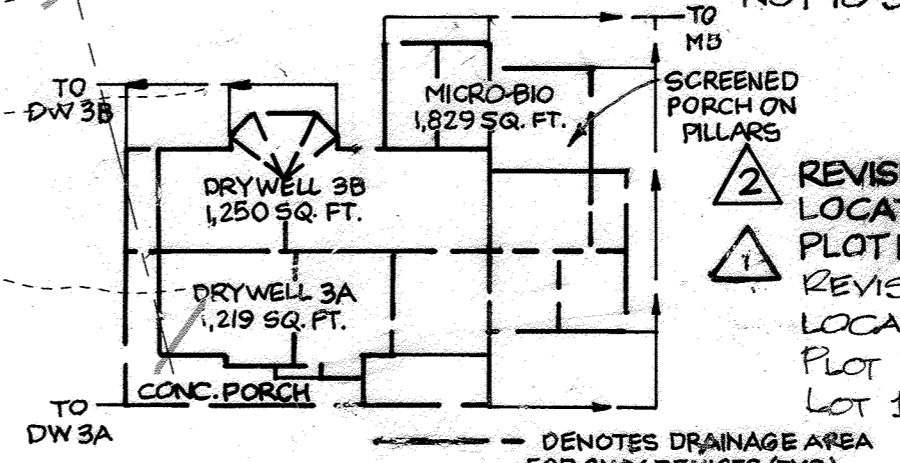
FRONT ELEVATION LOT 3
NOT TO SCALE



LOT 1 DRYWELL DRAINAGE AREA MAP
NOT TO SCALE



FRONT ELEV FOR LOT 1
NOT TO SCALE



DRYWELL DRAINAGE AREA MAP
NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

William J. Dwyer 2/26/19
Chief, Division of Land Development Date

Paul R. ... 2-1-18
Chief, Development Engineering Division Date

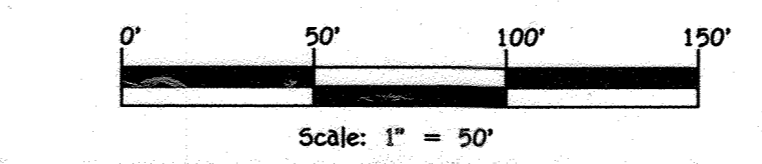
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Janet ... 1/10/2018
Signature of Professional Land Survivor DATE

OWNER/DEVELOPER

PAUL A. CASASCO AND JENNIFER K. CASASCO
3365 JENNINGS CHAPEL ROAD
WOODBINE, MARYLAND 21797
301-529-5726



REDLINE FOR LOT 1 SUPPLEMENTAL PLAN, LANDSCAPE & DRAINAGE AREAS

SQUARE WOODS LOTS 1 THRU 3

ZONED: RC-DEO
TAX MAP #20, GRID# 04 PARCEL #140
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: JANUARY 10, 2018
SCALE: 1"=50' SHEET 2 OF 7

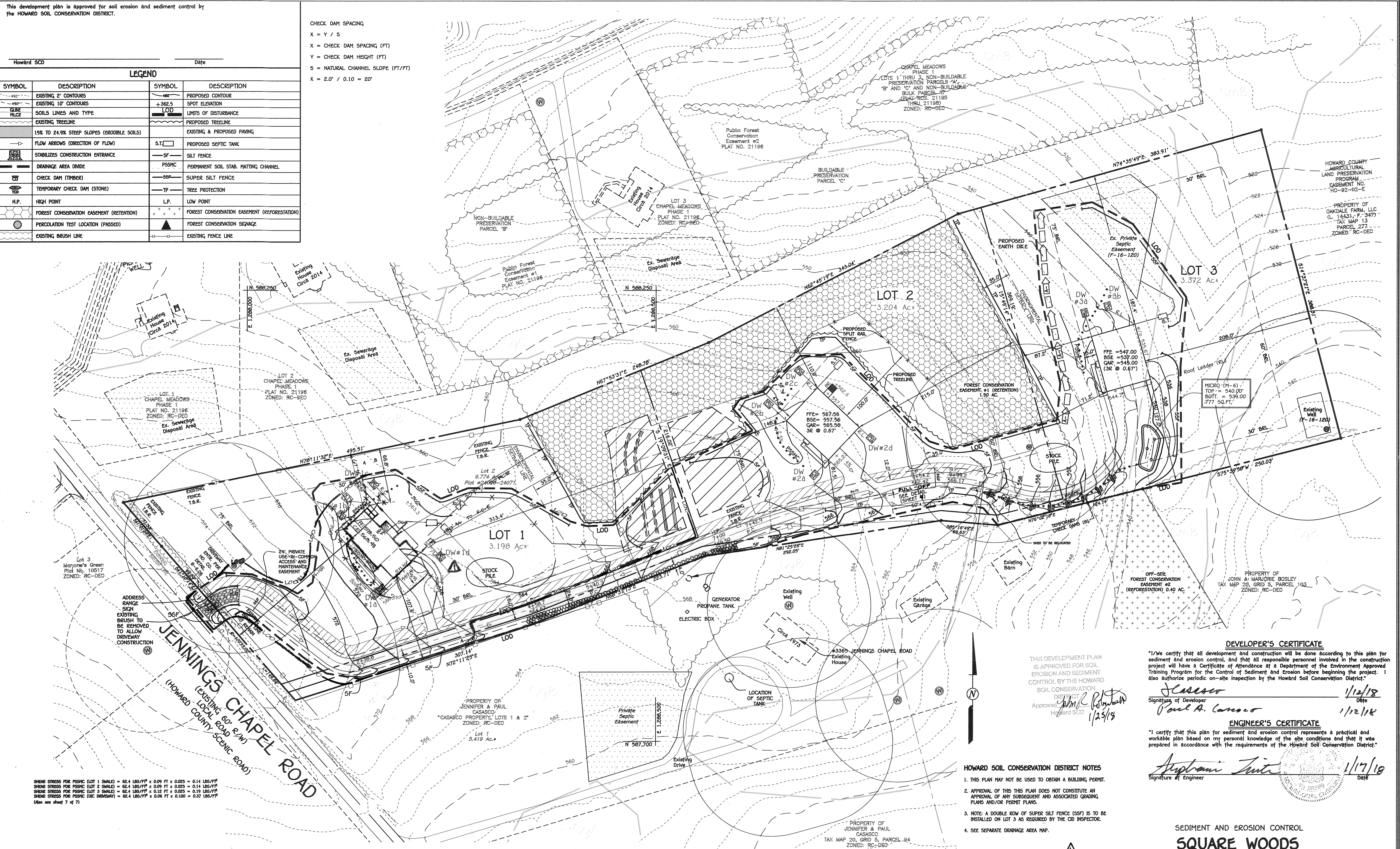
RECLINED TO SHOW REVISED LANDSCAPING FEBRUARY, 2023 comments addressed 7/2023

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard SCD _____ Date _____

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOILS LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		PROPOSED TREELINE
	15% TO 24.9% STEEP SLOPES (ERODIBLE SOILS)		EXISTING & PROPOSED PAVING
	FLOW ARROWS (DIRECTION OF FLOW)		PROPOSED SEPTIC TANK
	STABILIZES CONSTRUCTION ENTRANCE		SILT FENCE
	DRAINAGE AREA DIVIDE		PERMANENT SOIL STAB. MATTING CHANNEL
	CHECK DAM (TIMBER)		SUPER SILT FENCE
	TEMPORARY CHECK DAM (STONE)		TREE PROTECTION
	H.P. HIGH POINT		LOW POINT
	FOREST CONSERVATION EASEMENT (RETENTION)		FOREST CONSERVATION EASEMENT (REFORESTATION)
	PERCOLATION TEST LOCATION (PASSED)		FOREST CONSERVATION SIGNAGE
	EXISTING BRUSH LINE		EXISTING FENCE LINE

CHECK DAM SPACING
 X = Y / 5
 X = CHECK DAM SPACING (FT)
 Y = CHECK DAM HEIGHT (FT)
 S = NATURAL CHANNEL SLOPE (FT/FT)
 X = 2.0' / 0.10 = 20'



SHEAR STRESS FOR PSHC (LOT 1 SWALE) = 62.4 LB/FT² x 0.09 FT x 0.025 = 0.14 LB/FT²
 SHEAR STRESS FOR PSHC (LOT 2 SWALE) = 62.4 LB/FT² x 0.09 FT x 0.025 = 0.14 LB/FT²
 SHEAR STRESS FOR PSHC (LOT 3 SWALE) = 62.4 LB/FT² x 0.12 FT x 0.025 = 0.19 LB/FT²
 SHEAR STRESS FOR PSHC (UC DRIVEWAY) = 62.4 LB/FT² x 0.06 FT x 0.100 = 0.37 LB/FT²
 (Also see sheet 7 of 7)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DISTRICT APPROVED: *[Signature]*
 Approved: *[Signature]* 1/25/19
 Howard SCD

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."
 Signature of Developer: *[Signature]* 1/12/18
 Date: 1/12/18

ENGINEER'S CERTIFICATE
 "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."
 Signature of Engineer: *[Signature]* 1/17/19
 Date: 1/17/19

HOWARD SOIL CONSERVATION DISTRICT NOTES

1. THIS PLAN MAY NOT BE USED TO OBTAIN A BUILDING PERMIT.
2. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED GRADING PLANS AND/OR PERMIT PLANS.
3. NOTE: A DOUBLE ROW OF SUPER SILT FENCE (SSF) IS TO BE INSTALLED ON LOT 3 AS REQUIRED BY THE CID INSPECTOR.
4. SEE SEPARATE DRAINAGE AREA MAP.

REMOVED HOUSE LOCATION PER PLOT PLAN FOR LOT 1

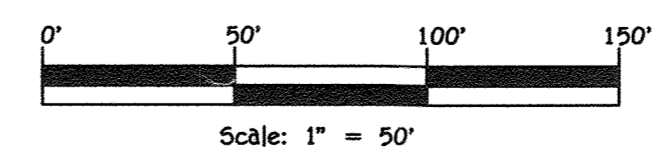
SEDIMENT AND EROSION CONTROL
SQUARE WOODS
 LOTS 1 THRU 3
 ZONED: RC-DEO
 TAX MAP #20 GRID #04 PARCEL #140
 FOURTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30'
 DATE: JANUARY 10, 2018
 1" = 50' SHEET 3 OF 7

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 2/26/18
 Chief, Division of Land Development
[Signature] 2.1.18
 Chief, Development Engineering Division

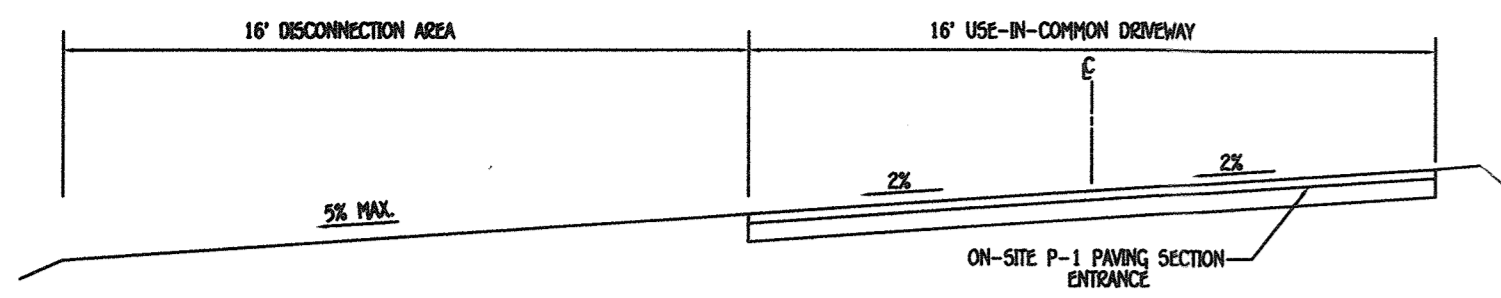
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21351, EXPIRATION DATE: 07/15/2019.
[Signature] 1/10/2018
 Signature of Professional Land Surveyor DATE



OWNER/DEVELOPER
 PAUL A. CASASCO AND JENNIFER E. CASASCO
 3365 JENNINGS CHAPEL ROAD
 WOODBINE, MARYLAND 21797
 301-529-5728



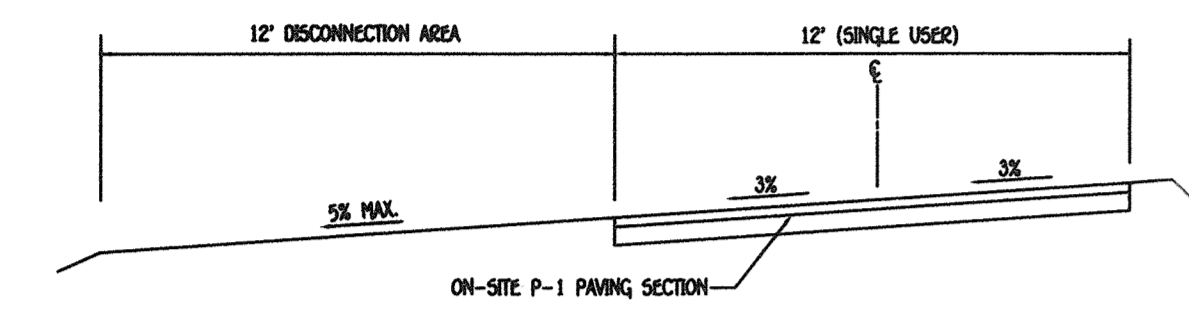
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10725 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-1295



NOTE:
 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
 2. SWALES ARE FOR CONVEYANCE OF RUNOFF AND NOT UTILIZED FOR TREATMENT CREDIT.

16' USE-IN-COMMON DRIVEWAY CROSS SLOPE SECTION

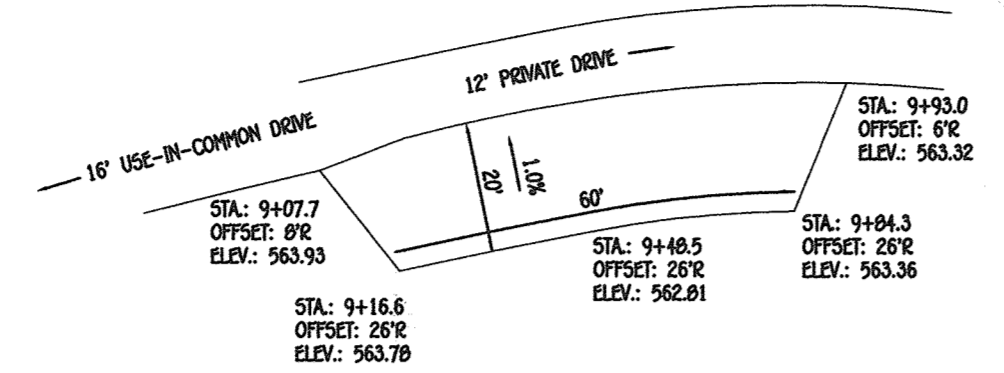
NOT TO SCALE
 0+26 ± TO 9+07.7



NOTE:
 ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.

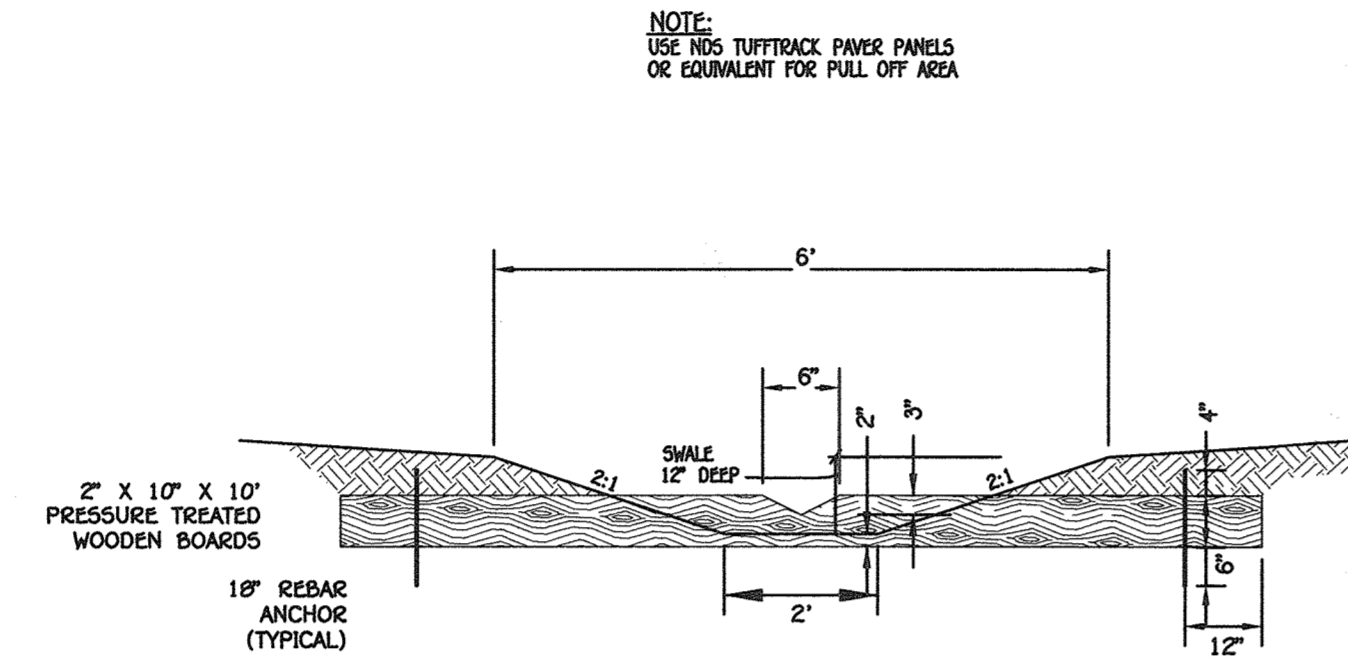
TYPICAL SINGLE LOT PRIVATE DRIVE CROSS SLOPE SECTION

NOT TO SCALE
 9+07.7 TO 10+35



DRIVEWAY PRIVATE EMERGENCY PULL-OFF (R-9.04)

NOT TO SCALE
 9+07.7 TO 9+93.0

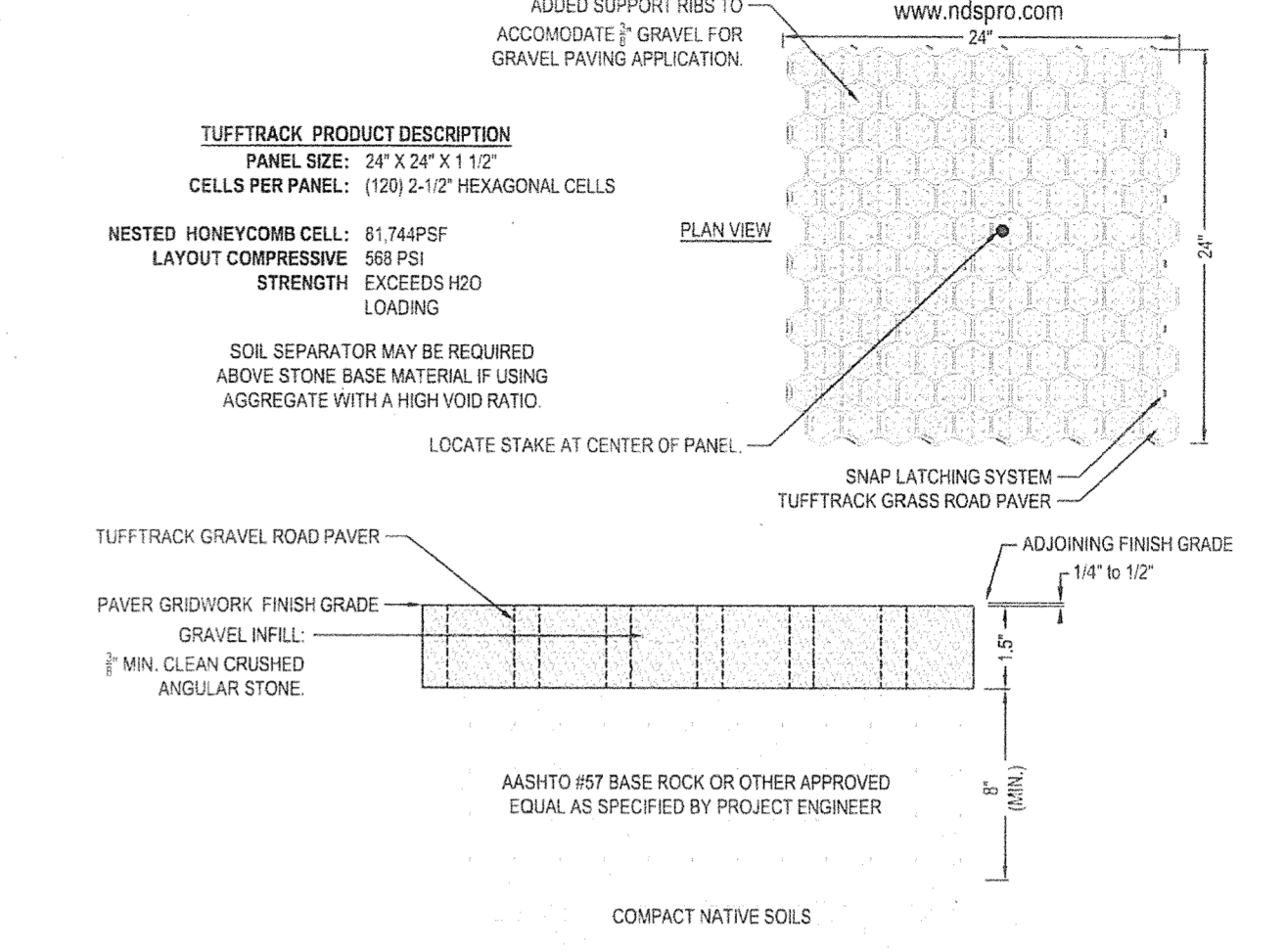


GRASS SWALE & TIMBER CHECK DAM DETAIL

SECTION "A-A"
 NOT TO SCALE

NDS
 We put water in its place

NDS, INC.
 851 NORTH HARVARD AVE.
 LINDSAY, CA 95247
 TOLL FREE: 1-800-726-1994
 PHONE: (559) 562-9888
 FAX: (559) 562-4488
 www.ndspro.com

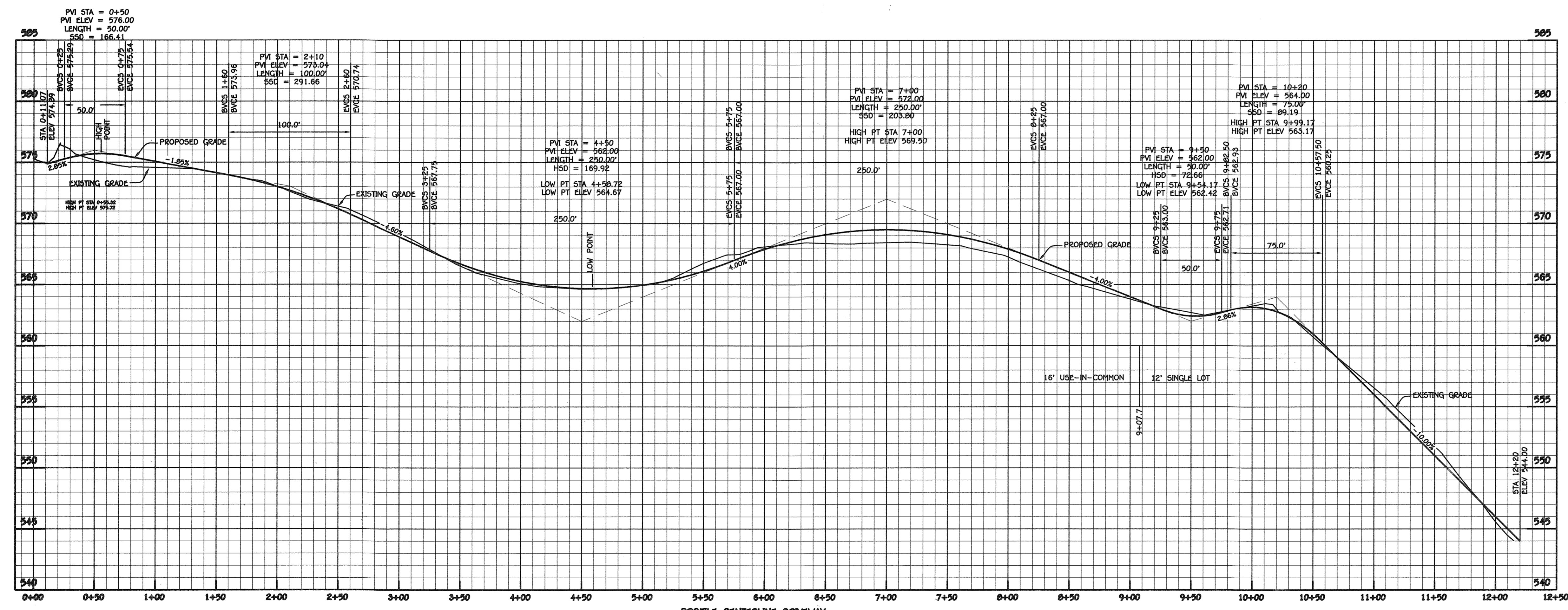


NOTES:
 1. EXISTING SOILS SHOULD BE EVALUATED TO ENSURE PROPER STRUCTURAL AND PERMEABILITY PROPERTIES.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWING.
 4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
 5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

TUFFTRACK GRAVEL ROAD PAVERS
 GRAVEL APPLICATION - FIRE/HEAVY LOAD



* FOR PULL OFF AREA ONLY



PROFILE CENTERLINE DRIVEWAY
 SCALE HORZ. 1" = 50'
 VERT. 1" = 5'

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF ROOFTOP RUNOFF (N-1) DISCONNECTION OF NONROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

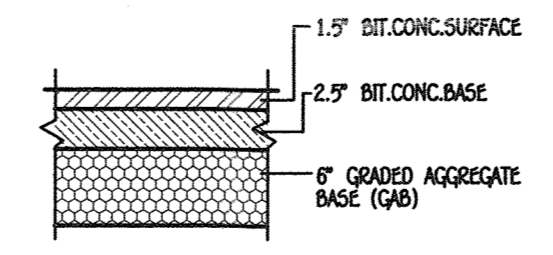
OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6)

- 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-1.1 and 2.
- The owner shall perform a plant in the spring and in the fall each year; during the inspection, the owner shall remove dead and diseased 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.

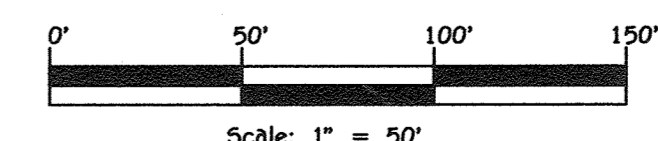
DETAILS AND PROFILES

SQUARE WOODS LOTS 1 THRU 3

ZONED: RC-DEO
 TAX MAP #20 GRID# 04 PARCEL #140
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1"=30' DATE: JANUARY 10, 2018
 SHEET 4 OF 7



P-1 DRIVEWAY PAVING SECTION
 NOT TO SCALE



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

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 10727 BALDWIN NATIONAL PARK
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895

Chief, Division of Land Development: *[Signature]* 2/16/18 Date

Chief, Development Engineering Division: *[Signature]* 2-1-18 Date

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY AND THAT I AM A FULLY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21351, EXPIRATION DATE: 07/15/2019.

[Signature] 1/10/2018 DATE

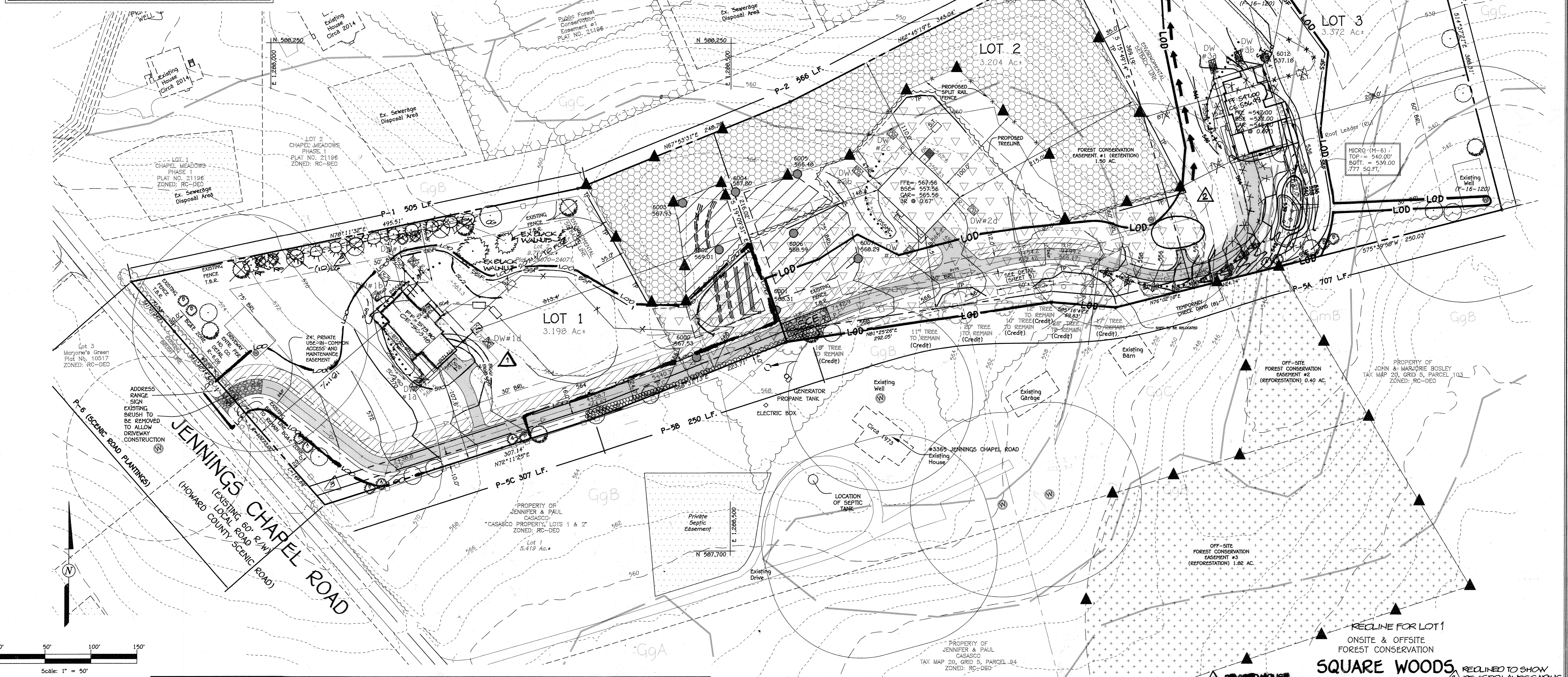
PROFESSIONAL LAND SURVEYOR

OWNER/DEVELOPER

PAUL A. CASASCO AND
 JENNIFER K. CASASCO
 3365 JENNINGS CHAPEL ROAD
 WOODBINE, MARYLAND 21797
 301-529-5728

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOILS LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		PROPOSED TREELINE
	15% TO 24.9% STEEP SLOPES (ERODIBLE SOILS)		EXISTING & PROPOSED PAVING
	FLOW ARROWS (DIRECTION OF FLOW)		PROPOSED SEPTIC TANK
	STABILIZER CONSTRUCTION ENTRANCE		SILT FENCE
	DRAINAGE AREA DIVIDE		PERMANENT SOIL STAB. MATING CHANNEL
	CHECK DAM (TIMBER)		SUPER SILT FENCE
	TEMPORARY CHECK DAM (STONE)		TREE PROTECTION
	HIGH POINT		LOW POINT
	FOREST CONSERVATION EASEMENT (RETENTION)		FOREST CONSERVATION EASEMENT (REFORESTATION)
	FOREST AREA CLEARED = 1.74 AC. +		FOREST CONSERVATION SIGNAGE
			PROPOSED SPLIT RAIL FENCE

WATERSHED INFORMATION		
M.D.E. 6 DIGIT WATERSHED NAME	M.D.E. 6 DIGIT WATERSHED NAME	D.N.R. 8 DIGIT WATERSHED
PATUXENT RIVER	BRIGHTON DAM	# 02131108



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Paul A. Casasco
 Chief, Division of Land Development

Paul A. Casasco
 Chief, Development Engineering Division

2/26/18
 Date

2/10 2/11/18
 Date

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 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
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 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21351, EXPIRATION DATE: 07/15/2019.

Paul A. Casasco
 Signature of Professional Land Surveyor

1/10/2018
 DATE

STATE OF MARYLAND
 PROFESSIONAL LAND SURVEYORS

OWNER/DEVELOPER

PAUL A. CASASCO AND
 JENNIFER K. CASASCO
 3365 JENNINGS CHAPEL ROAD
 WOODBINE, MARYLAND 21797
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SQUARE WOODS
 LOTS 1 THRU 3
 ZONED: RC-DEO
 TAX MAP #20 GRID# 04 PARCEL #140
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: X=3X DATE: JANUARY 10, 2018
 SCALE: 1"=50' SHEET 5 OF 7

RECLINE FOR LOT 1
 ONSITE & OFFSITE
 FOREST CONSERVATION

REVISOR HOUSE LOCATION PER PLOT PLAN FOR LOT 3

REVISOR HOUSE LOCATION PER PLOT PLAN FOR LOT 1

RECLINED TO SHOW REVISOR LANDSCAPING FEBRUARY, 2023 comments addressed 7/2023

F-18-021

