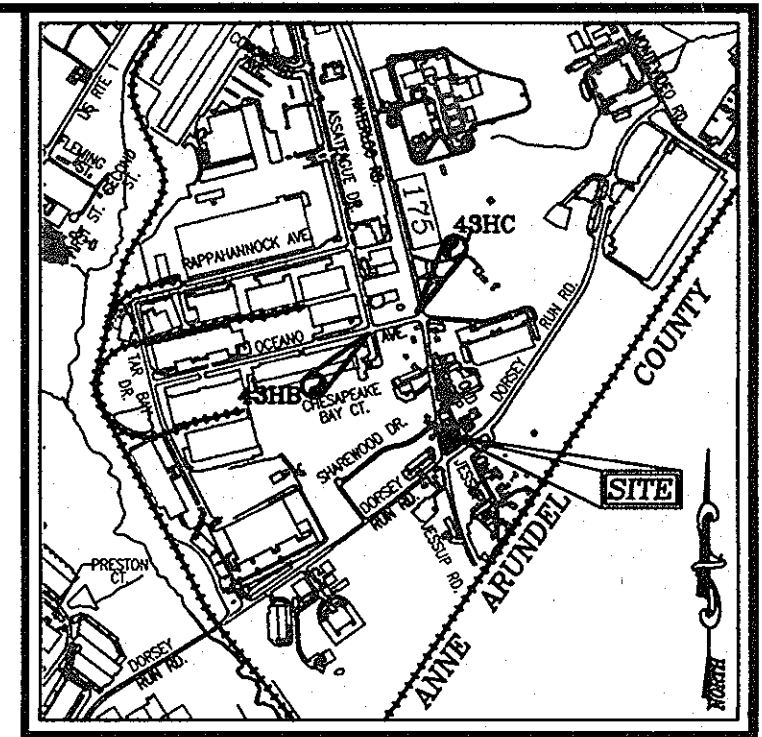


MEL'S LIQUOR

7852 SW OLD JESSUP ROAD L.10188/F.162

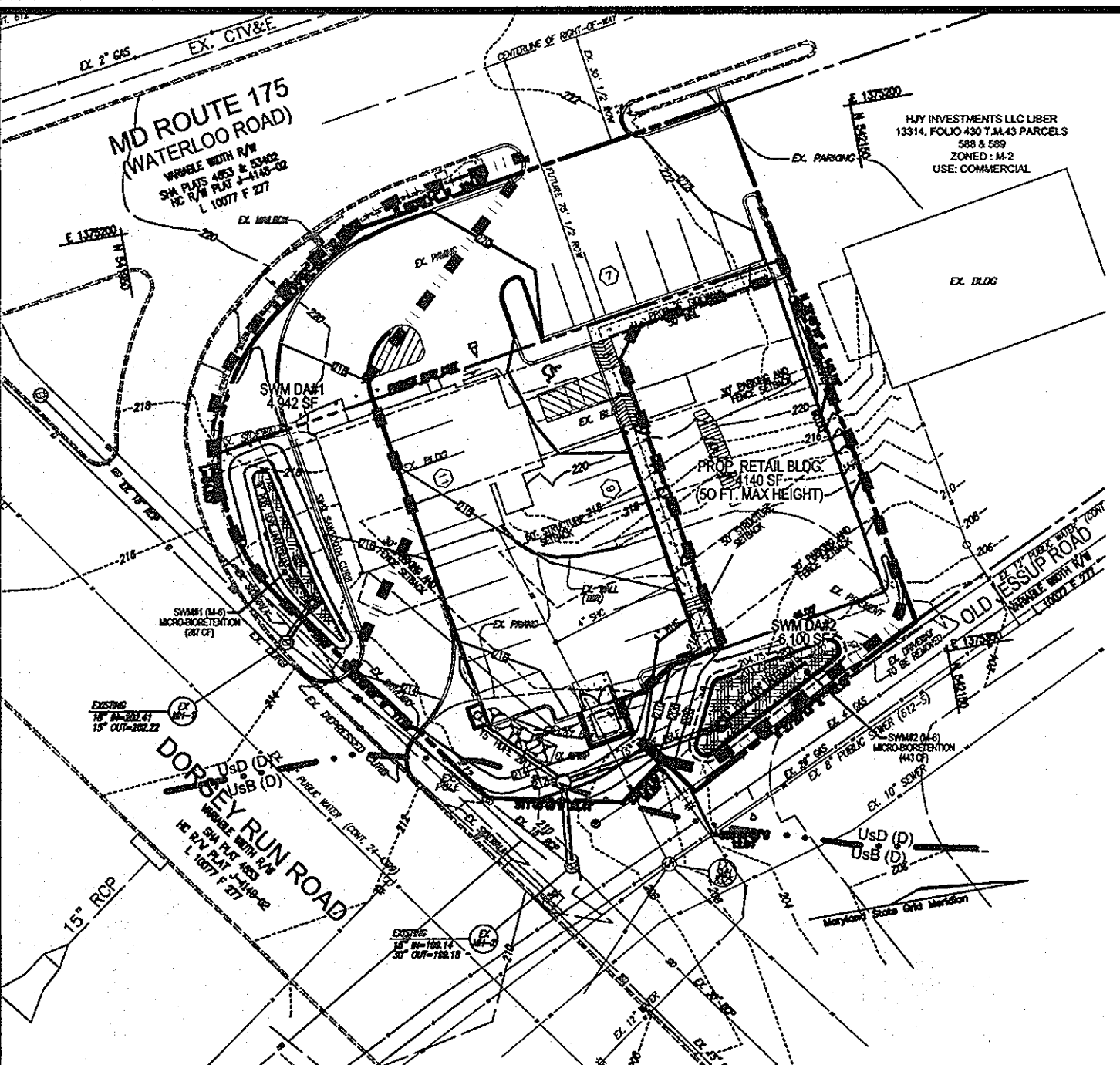
ENVIRONMENTAL CONCEPT PLAN

BENCHMARKS
 HOWARD COUNTY BENCHMARK 43NC
 N 543386.1639 E 1374935.8379 ELEV: 225.925'
 HOWARD COUNTY BENCHMARK HB
 N 545166.729 E 1374425.0243 ELEV: 251.622'



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP/GRID = 5054/F6

SITE DATA
 LOCATION: JESSUP, MD.; TAX MAP 43, PARCEL 24B.
 1ST ELECTION DISTRICT
 PRESENT ZONING: M-2
 PARCEL AREA: 0.55 AC.
 DPZ REFERENCES: L.10188/F.162
 USE OF STRUCTURES: RETAIL
 TOTAL BUILDING COVERAGE: 4,140 SF.
 PAVED PARKING LOT/AREA ON SITE: 14,030 SF OR 0.32 AC.
 AREA OF LANDSCAPE ISLAND: 382 SF
 LIMIT OF DISTURBED AREA: 25,831 SF OR 0.59 AC.
 WETLANDS ON SITE: 0.00 AC.
 WETLAND BUFFERS ON SITE: 0.00 AC.
 STREAMS AND THEIR BUFFERS ON SITE: 0.00 AC.
 AREA OF EXISTING FOREST ON SITE: 0.00 AC.
 AREA OF EXISTING SLOPES: 0.00 AC.
 AREA OF ERODIBLE SOILS: 0.00 AC.
 AREA MANAGED BY ESDV (*THIS PLAN): 0.25 AC.
 IMPERVIOUS AREA: 0.14 AC.
 *GREEN AREA: 0.09 AC.

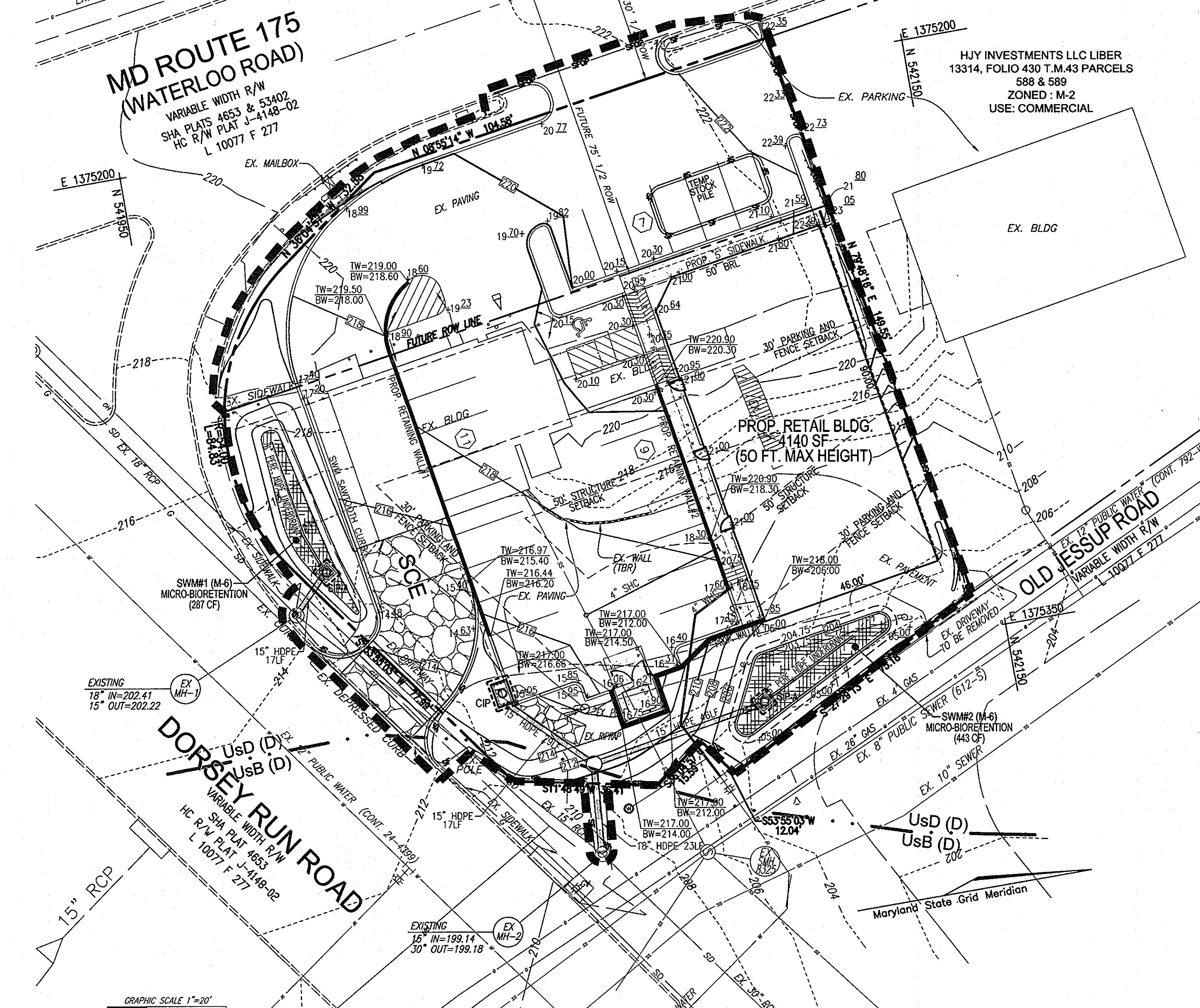


SWM DRAINAGE AREA MAP
 SCALE: 1"=40'

SOILS LEGEND
 HOWARD COUNTY SOILS MAP #25

SYMBOL	NAME / DESCRIPTION	GROUP	ERODIBLE	K _f FACTOR
UsD	URBAN LAND - SASSAFRAS-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES	D	YES	0.37

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY STANDARDS AND SPECIFICATIONS. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
 - EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S 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 CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED OCTOBER 26, 2012.
 - COORDINATES AND ELEVATIONS ARE BASED ON MARYLAND COORDINATE SYSTEM - NAD83(1991) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 43HB AND 43HC.
 - THE PROPERTY LINES SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. DATED OCTOBER 26, 2012.
 - ALL ELEVATIONS ARE TO FLOWLINE/BOTTOM OF CURB UNLESS OTHERWISE NOTED.
 - THE GEOTECHNICAL ENGINEER TO CONFIRM PAVING SECTION PRIOR TO CONSTRUCTION. ALL PAVING TO BE PAVING PER GEOTECHNICAL RECOMMENDATIONS.
 - THE SUBJECT PROPERTY IS ZONED M-2 PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING REGULATION AMENDMENTS EFFECTIVE ON 07/28/06.
 - PUBLIC WATER AVAILABLE THROUGH CONTRACT NO. 792-24.
 - PUBLIC SEWER AVAILABLE THROUGH 612-S.
 - THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS PROPERTY.
 - THERE IS NO 100YR FLOODPLAIN, STREAMS, WETLANDS OR STEEP SLOPES LOCATED ON SITE.
 - ANY EXISTING STREET TREES DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR.
 - THE FOREST STAND DELINEATION WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS, DATED 09/02/13.
 - THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY 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 APPLICATIONS.
 - A KNOX BOX IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING. IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4'-5" IN HEIGHT AND NO MORE THAN 6" LATERALLY FROM THE DOOR. ITS LOCATION IS SHOWN ON THESE PLANS. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSED (INTEGRATED WITH THE FIRE ALARM SYSTEM).
 - LANDSCAPING NOT PERMITTED WITHIN 7'-1/2" OF EACH SIDE OF THE FIRE DEPARTMENT CONNECTION. PROVIDE A CLEAR UNOBSTRUCTED ACCESS PATH TO THE FIRE DEPARTMENT CONNECTION. NFPA-1 1.3.1.4.
 - FIRE LANES SHALL BE PROVIDED IN THIS SITE TO ALLOW EMERGENCY VEHICLE ACCESS. EITHER FIRE LANE SIGNAGE SHOULD BE INSTALLED, OR THE CURBS SHOULD BE PAINTED IN RED AND STENCILED TO IDENTIFY THE ROAD AS A FIRE LANE.
 - ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
 - ALL EXTERIOR LIGHTING TO COMPLY WITH THE REQUIREMENTS FOUND IN ZONING SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 - STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2005), SECTION 5.5.A. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
 - STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDED BY ENVIRONMENTAL SITE DESIGN UTILIZING MICRO-BIORETENTION FACILITIES AND PERVIOUS PAVING. (SEE ADDITIONAL SPECIFICATIONS) TO ACCOMMODATE THE TOTAL ESDV VOLUME REQUIRED. SWM FACILITIES TO BE PRIVATELY OWNED AND MAINTAINED.
 - TRASH AND RECYCLING COLLECTION TO BE PRIVATE.
 - THE PROPOSED BUILDING WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
 - THERE ARE NO SPECIMEN OR CHAMPION TREES WITHIN THE LOD.
 - NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS(S) OR THEIR BUFFERS, FOREST CONSERVATION AREAS AND 100 YEAR FLOODPLAIN.
 - SIGNING SHALL BE PROVIDED ON THE BUILDING IDENTIFYING THE BUILDING ADDRESS, AND EACH SUITE SEPARATED BY LETTER.
 - THE EXISTING BUILDING WAS DESTROYED BY FIRE (SECTION 129.0), AND THE RECONSTRUCTED BUILDING AND PARKING WILL BE LOCATED AT THE SAME OR GREATER SETBACK FROM MD ROUTE 175 AND DORSEY RUN ROAD.



CONCEPT PLAN
 SCALE: 1"=20'

- NOTES:**
- APPROVAL OF THIS SIMPLIFIED ESDV DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED BUILDING AND/OR GRADING PERMIT.
 - REVIEW OF THIS PLAN FOR COMPLIANCE WITH ZONING AND SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE PERMIT STAGES, AND THEREFORE, THIS PLAN IS SUBJECT TO ADDITIONAL AND MORE DETAILED COMMENTS AS THE PLAN PROGRESSES THROUGH THE PERMIT PROCESS.
 - THERE ARE NO ENVIRONMENTAL FEATURES: FLOODPLAIN, WETLANDS, STREAMS, STEEP SLOPES OR FOREST THAT EXISTS ON THIS PROPERTY OR WITHIN THE DEVELOPED AREA.

Appendix B.4 - Construction Specifications for Environmental Site Design Practices

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.1	n/a	plantings are site-specific
Paving mix (2" to 4" deep)	heavy sand (60-65%) & coarse sand (35-40%)	n/a	USDA soil types heavy sand or sandy loam; clay content < 5%
Organic content	Min 10% by dry weight (ASTM D 2974)	n/a	aged 6 months, no lime or wood shavings
Topsoil	Shredded hardwood post gravel ASTM-D-448	NO. 8 OR NO. 9 (1/4" TO 3/8")	n/a
Curtain drain	ornamental stone: washed oolite	stone: 2" to 5"	n/a
Geotextile	AASHTO M-43	n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	NO. 57 OR NO. 6	n/a	n/a
Underdrain piping	shredded hardwood post gravel ASTM-D-448	4" to 6" rigid schedule 40 PVC or SDR35	Shaded or perforated pipe, 3/8" perf. @ 10" on center, 4 holes per row. Minimum of 1" of gravel over pipe, not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4 inch polyethylene fabric.
Poured in place concrete (if required)	MSHA Mix No. 3; f'c = 3500 psi @ 28 days normal weight, air-entrained, conforming to meet ASTM-A115-09	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete designs (cast-in-place or precast) shall be approved by a professional structural engineer licensed in the State of Maryland. Design to include meeting ACI Code 308.4R9: vertical loading (11-10-10) allowable horizontal loading (based on soil resistance) and analysis of potential cracking.
Sand	AASHTO M-6 or ASTM-C-33	0.075" to 0.04"	Sand substitutes such as Duxbury and Compcon (AASHTO) #10 are not acceptable. No calcium sulfonate or dolomitic sand substitutes are acceptable. No "rock dust" can be used for sand.

APPROX. E.A.C. SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDENS, LANDSCAPE INFILTRATION & REPLETION BERMS

1. MATERIAL SPECIFICATIONS:
 THE ALLOWABLE MATERIALS TO BE USED IN THESE PRACTICES ARE LISTED IN TABLE B.4.1.

2. PLANTING MEDIA OR PLANTING SOIL:
 THE SOIL SHALL BE A HEAVY SAND OR SANDY LOAM. CLAY, COARSE ROOTS OR OTHER ORGANIC OBJECTS LARGER THAN TWO INCHES, NO OTHER MATERIALS OR SUBSTANCES SHALL BE USED OR ADDED WITHIN THE MICRO-BIORETENTION PRACTICE THAT MAY BE HARMFUL TO PLANT GROWTH OR FROM A SOURCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF STONES, GRAVEL, COMPOSTED, UNWASHED COARSE, OR OTHER MATERIALS AS SPECIFIED ON OTHER DRAWING SHEETS.

3. SOIL TESTING:
 THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:
 a. SOIL COMPOSITION - Heavy sand or sandy loam (USDA Soil Texture Classification).
 b. ORGANIC MATTER - 10% by dry weight (ASTM D 2974).
 c. PH - 6.0 to 7.0.
 d. CLAY CONTENT - 5% by dry weight (ASTM D 2974).
 e. THE PLANTING MEDIA SHALL BE A LUMPY COMPOST OF LITTLE SIZE.

4. PLANTING MEDIA:
 THERE SHALL BE AT LEAST ONE INCH PER FOOT, EACH SIDE SHALL CONSIST OF BOTH THE DRAINING SOIL TEST FOR AIR AND ADDITIONAL TESTS OF ORGANIC MATTER AND SOLUBLE SALTS. A REDUCED AMOUNT IS REQUIRED FROM THE SITE TOPOGRAPHY, IF TOPSOIL IS APPLIED, FROM A SOURCE OTHER THAN THE PLANTING MEDIA. THE PLANTING MEDIA SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:
 a. SOIL COMPOSITION - Heavy sand or sandy loam (USDA Soil Texture Classification).
 b. ORGANIC MATTER - 10% by dry weight (ASTM D 2974).
 c. PH - 6.0 to 7.0.
 d. CLAY CONTENT - 5% by dry weight (ASTM D 2974).
 e. THE PLANTING MEDIA SHALL BE A LUMPY COMPOST OF LITTLE SIZE.

5. COMPLETION:
 IF A KEY REPORT TO MONITOR COMPLETION OF BOTH THE MICRO-BIORETENTION PRACTICES AND THE REQUIRED HEDGES, WITH VISIBLE VEGETATION SHALL BE REMOVED ORIGINALLY. IF PRACTICES ARE DESTROYED OR DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING THE PRACTICES TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PRACTICES TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PRACTICES TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PRACTICES TO THE ORIGINAL CONDITION.

Pe= 2.00
 ESDV=(PexRvxA)/12
 Rv=0.05+0.009xL
 V min=1.0" rainfall (1.0xRvxA)/12
 Vmax=1yr rainfall=(2.6xRvxA)/12

DA	% IMPERV	Rv	DA	ESDV	MINIMUM REQ. VOLUME	MAXIMUM VOLUME	VOLUME PROVIDED*
1	59	0.58	0.11	479	240	623	287
2	68	0.67	0.14	676	338	879	443
TOTAL ESDV BY SUBAREA					1156		730

* Provided Volume is less than ESDV Require because Bio-retention utilized in each subarea at the rate of 75%.

DRAINAGE AREA #	AREA TREATED	FACILITY NUMBER	ENVIRONMENTAL SITE DESIGN PRACTICE										TOTAL ESDV PROVIDED: 730
			PERMEABLE PAVEMENT	LANDSCAPE INFILTRATION	PERVIOUS SIDEWALK	BIO GRAVEL	MICRO BIO RETENTION	ADD UNDER	ESDV				
1	4942	SWM#1	0	0	0	0	0	0	0	0	0	287	287
		SUBTOTAL 1	0	0	0	0	0	0	0	0	0	287	287
2	6100	SWM#2	0	0	0	0	0	0	0	0	0	443	443
		SUBTOTAL 2	0	0	0	0	0	0	0	0	0	443	443
TOTALS:			0	0	0	0	0	0	0	0	0	730	730

TOTAL AREA 11042 SF
 0.25 AC

OWNER/DEVELOPER
 JAGDAMBE, LLC
 6804 CREEKWOOD CT.
 CLARKSVILLE, MD 21032-1748
 410-503-7898
 C/O NORESH KUMAR

NO.	REVISION	DATE

ENVIRONMENTAL CONCEPT PLAN

ESDV CONCEPTUAL PLAN AND DETAILS

MEL'S LIQUOR
 7852 SW OLD JESSUP ROAD
 L.10188/F.162

TAX MAP 43, BLOCK 21
 1ST ELECTION DISTRICT

PARCEL 24B
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET
 ELICOTT CITY, MD 21043
 TEL: 410.461.7666
 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

DESIGN BY: RHV
 DRAWN BY: RHZ
 CHECKED BY: DJV
 DATE: FEB. 2013
 SCALE: AS SHOWN
 W.C. NO.: 12-60

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. MY LICENSE NO. IS 16193. EXPIRATION DATE: 06-27-2014.

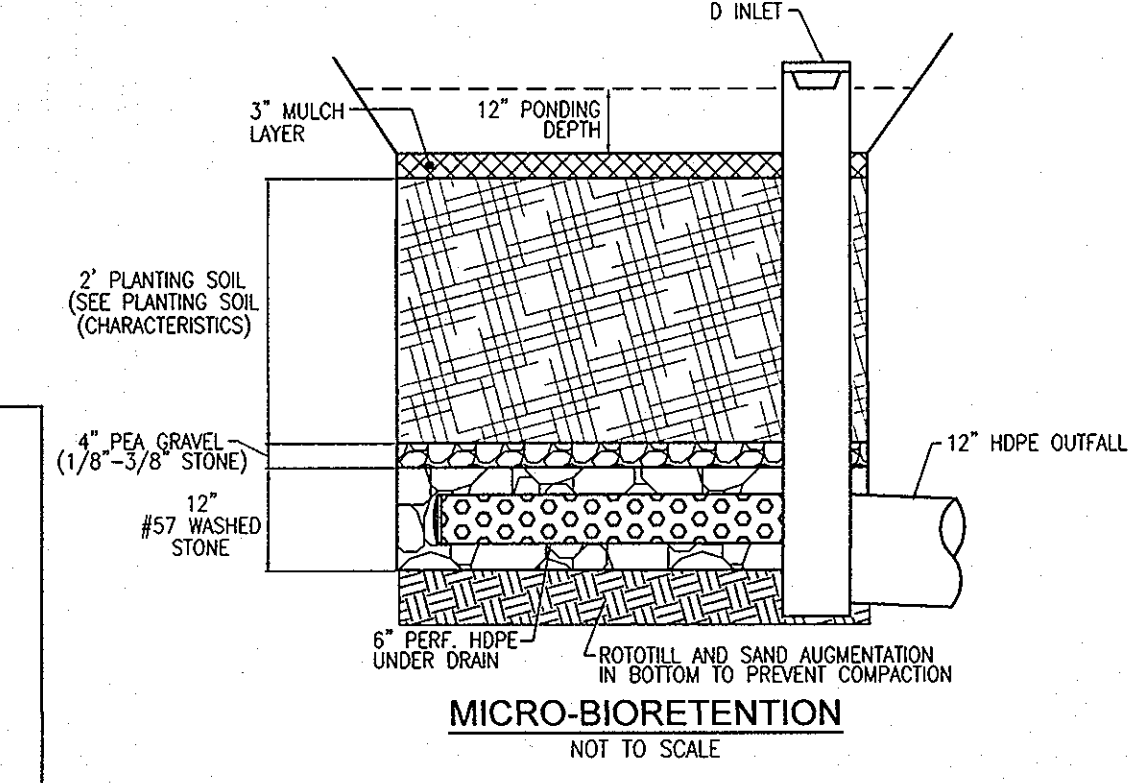
STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 NO. 16193

1 SHEET OF 1

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chad Clanton
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3-11-14

Kate DeClerck
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 3/10/14



MICRO-BIORETENTION
 NOT TO SCALE