## SWM DRAINAGE AREA MAP SOILS LEGEND HOWARD COUNTY SOILS MAP #25 SYMBOL NAME / DESCRIPTION GROUP ERODIBLE K FACTOR **GENERAL NOTES** 1. 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. 2. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF 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 CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. HE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM AN FIELD RUN TOPOGRAPH 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. HE PROPERTY LINES SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. DATED OCTOBER 26, 2012. ILL 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. HE 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-W. PUBLIC SEWER AVAILABLE THROUGH 612-S. 10. THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS 11. THERE IS NO 100YR FLOODPLAIN, STREAMS, WETLANDS OR STEEP SLOPES LOCATED ON SITE. 12. ANY EXISTING STREET TREES DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR. 13. THE FOREST STAND DELINEATION WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS, DATED 09/02/13. 14. 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. 6. 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. IT'S 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 13.1.4 18. FIRE LANES SHOULD 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. 9. 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. 20. ALL EXTERIOR LIGHTING TO COMPLY WITH THE REQUIREMENTS FOUND IN ZONING SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS. 1. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2006), SECTION 5.5.A. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE. STORMWATER MANAGEMENT FOR THIS PROJECT IS BEING PROVIDED BY ENVIRONMENTAL SITE DESIGN UTILIZING MICRO-BIORETENTION FACILITIES AND PERVIOS PAVING WITH ADDITIONAL STONE DEPTH) TO ACCOMMODATE THE TOTAL ESD VOLUME REQUIRED. SWM FACILITIES TO BE

PRIVATELY OWNED AND MAINTAINED.

EACH SUITE SEPARATED BY LETTER.

ROUTE 175 AND DORSEY RUN ROAD.

TRASH AND RECYCLING COLLECTION TO BE PRIVATE.

25. THERE ARE NO SPECIMEN OR CHAMPION TREES WITHIN THE LOD.

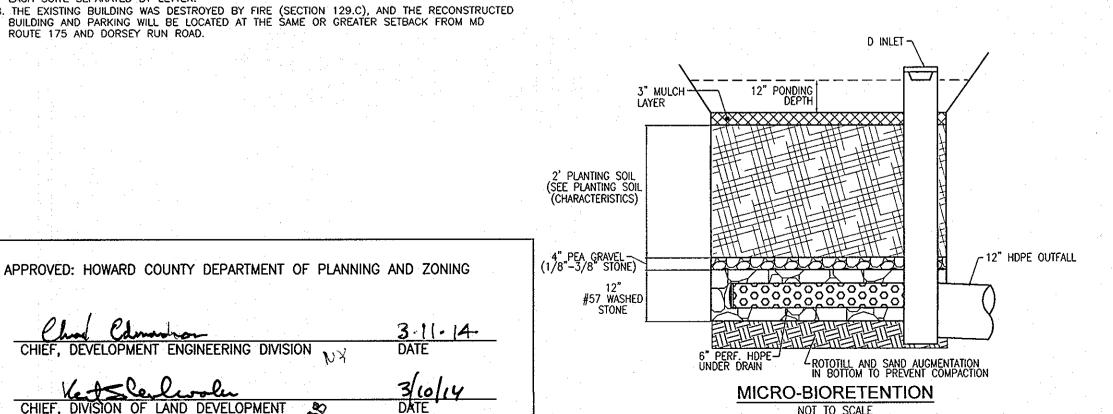
THE PROPOSED BUILDING WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.

SHALL BE PERMITTED WITHING THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION AREAS AND 100 YEAR FLOODPLAIN.

SIGNAGE SHALL BE PROVIDED ON THE BUILDING IDENTIFYING THE BUILDING ADDRESS, AND

26. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING



## 1. APPROVAL OF THIS SIMPLIFIED ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED BUILDING AND/OR GRADING PERMIT REVIEW OF THIS PLAN FOR COMPLIANCE WITH ZONING AND 2. 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. 3. THERE ARE NO ENVIRONMENTAL FEATURES: FLOODPLAIN, WETLANDS, STREAMS, STEEP SLOPES OR FOREST THAT EXISTS ON THIS PROPERTY OR WITHIN THE DEVELOPED AREA.

IN=199.14 MH-

MICRO-BIORETENTION

8" IN=202.41

OPERATION AND MAINTENANCE SCHEDULE FOR LANSCAPE INFILTRATION (M-3), MICRO-BIORETENTION (M-6), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), AND ENHANCED FILTERS (M-9) 1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULTCH 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 PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2. 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 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. 3. 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. 4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

see Appendix A, Table A.4 plantings are site-specific DA soil types loamy sand or sandy loam; clay content < 5% sandy loam (30%) coarse sand (30%) & Min. 10% by dry weight Organic content (ASTM D 2974) aged 6 months, minimum; no pine or wood chips pea gravel: ASTM-D-44 omamental stone: washed E Type 1 nonwoven Gravel (underdrain: infiltration berms) Shotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch 758, Type PS 28 or AASHTO galvanized hardware cloth Poured in place concrete (if on-site testing of poured-in-place concrete required: 1SHA Mix No. 3; 1° = 3500 psi @ 28 days, normal weight, 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a neet ASTM-615-60 professional structural engineer licensed in the State of Maryland design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil oressures); and analysis of potential cracking AASHTO-M-6 or ASTM-C-33 0.02" to 0.04" #10 are not acceptable. No calcium carbonated or dolomitic sand

MEL'S LIQUOR

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

ENVIRONMENTAL CONCEPT PLAN

HOWARD COUNTY BENCHMARK HB N 543166.729 E 1374425.0243 ELEV.: 251.622

SITE DATA LOCATION: JESSUP, MD.; TAX MAP 43, PARCEL 248. 1ST ELECTION DISTRICT 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: 362 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. WEILAND BUFFERS ON SITE: 0.00 AC.
STREAMS AND THEIR BUFFERS ON SITE: 0.00 AC.
AREA OF ON—SITE 100 YEAR FLOODPLAIN: 0.00 AC.
AREA OF EXISTING FOREST ON SITE: 0.00 AC.
AREA OF STEEP SLOPES: 0.00 AC.
AREA OF ERODIBLE SOILS:0.00 AC.
AREA MANAGED BY ESDV (\*THIS PLAN): 0.25 AC.
\*IMPERVIOUS AREA: 0.16 AC.
\*CREEN AREA: 0.09 AC.

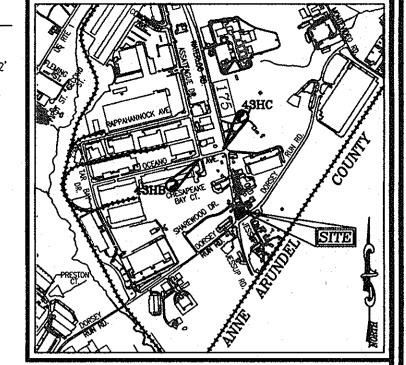
HJY INVESTMENTS LLC LIBER 13314, FOLIO 430 T.M.43 PARCELS 588 & 589

ZONED: M-2

USE: COMMERCIAL

EX. BLDG

— EX. PARKING →



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

THE PROPERTY OF THE PROPERTY O

PROPOSED CURB AND GUTTER

EXISTING SANITARY MANHOLE

PROPOSED STORM DRAIN

AT GRADE INLET PROTECTION

EXISTING UTILITY POLE EXISTING LIGHT POLE

EXISTING MAILBOX

EXISTING SIGN

LEGEND

**ENVIRONMENTAL SITE DESIGN NARRATIVE** 

I. THERE ARE NO WOODED AREAS, 100-YEAR FLOODPLAIN, WETLANDS OR STREAMS. THE TOPOGRAPHY DOES NOT RESULT IN ANY STEEP SLOPES. THE PROPERTY DOES NOT CONTAIN SPECIMEN TREES. THIS SITE CONSISTS OF URBAN LAND SOILS, CLASSIFIED AS HYDROLOGIC SOIL GROUP 'D'. THEARE ARE NO NATURAL RESOURCES THAT WILL REQUIRE PROTECTION

2. THE SITE NATURALLY SLOPES FROM WEST TO EAST AND IS PREDOMINANTLY PAVED. THE SITE HAS BEEN DESIGNED TO MAINTAIN THESE NATURAL FLOW

3. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT TO THE MAXIMUM EXTENT PRACTICABLE (MEP). THE ESD CONCEPT PROPOSES THE USE OF TWO MICRO-BIORETENTION FACILITIES (M-6). THESE FACILITIES WILL DISCHARGE TO THE EXISTING STORM DRAIN SYSTEM WHICH EVENTUALLY OUTFALLS AT STREAM SOUTH EAST OF THE SITE. THE

4. SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE OF PERIMETER CONTROLS (SILT FENCE, AND SUPER SILT FENCE) AND INLET PROTECTION. SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS AND SHALL BE APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT

SHALL BE MET THROUGH THE USE OF MICRO BIORETENTION FACILITIES (M-6) 5. NO WAIVERS ARE ANTICIPATED TO FULFILL THIS CONCEPT.

Pe=	2.00	***			: :	7	
ESDv=(	PexRvxA)/12				1		
Rv=0.05	5+0.009xI		,		· · · · · · · · · · · · · · · · · · ·		
V min=	1.0" rainfall		(1.0xRvx	A)/12	:		1
Vmax=	1yr rainfall=2	2.6"	(2.6xRvx	A)/12			
DA	% IMPERV	Rv	DA	ESDv	MINIMUM	MAXIMUM	VOLUM
				REQ	VOLUME	VOLUME	PROVIDE
1	59	0.58	0.11	479	240	623	287
2	68	0.67	0.14	676	338	879	443
						f	1
					i	}	1 .
1	TOTALE	SDv BY	SUBAREA	1156			730

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

			ENVIRONMENTAL SITE DESIGN PRACTICE								
DRAINAGE	AREA	FACILITY	PERMEABLE	ADD UNDER	LANDSCAPE	PERVIOUS	BIO	GRAVEL	MICRO BIO	ADD UNDER	ESDv
AREA#	TREATED	NUMBER	PAVEMENT	PERM. PAVE	INFILTRATION	SIDEWALK	SWALE	TRENCH	RETENTION	MICRO BIO	VOLUM
1	4942	SWM#1	0	0	0	0	0	0	0	287	287
		SUBTOTAL 1	0	0	0 .	0	0	0	0	287	287
2	6100	SWM#2	0	0	0	0	0	0	0	443	443
		SUBTOTAL 1	0	0	0	0	0	0	0	443	443
		TOTALS:	0	0	0	0	٥	0	0	730	730

TOTAL AREA 11042 SF TOTAL ESDV PROVIDED: 730 0.25 AC

OWNER/DEVELOPER JAGDAMBE, LLC. 6804 CREEKWOOD CT. CLARKSVILLE, MD 21029-1746 410-903-7898 C/O NORESH KUMAR

ENVIRONMENTAL CONCEPT PLAN

ESDv CONCEPTUAL PLAN AND DETAILS

**MEL'S LIQUOR** 

FAX MAP 43 BLOCK 21 IST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND ROBERT H. VOGEL

ENGINEERS . SURVEYORS . PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

	DESIGN BY:	RHV
	DRAWN BY:	DZ
	CHECKED BY:	RHV_
	DATE:	FEB. 2013
i	SCALE:	AS SHOWN
	w.o. no.: _	12-60

SHEET OF \_

PARCEL 248

PROPOSED ESD PRACTICES SHALL BE PRIVATELY OWNED AND MAINTAINED. 5. AS STATED IN #3 ABOVE, STORMWATER MANAGEMENT FOR THE PROJECT EXTENSION OF

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

**CONCEPT PLAN** 

SCALE: 1"= 20'

UsB (D)

tutions are acceptable. No "rock dust" can be used for sand.

APPENDIX B.4.C SPECIFICATIONS FOR MICRO-BIORETENTION. RAIN GARDEN, LANDSCAPE INFILTRATION & INFILTRATION BERIAS 1. MATERIAL SPECIFICATIONS
THE ALLOWABLE MATERIALS TO BE USED IN THESE PRACTICES ARE DETAILED IN TABLE B.4.1. 2. FILTERING MEDIA OR PLANTING SOIL.

THE SOIL SHALL BE A UNFORM IND, FREE OF STONES, STUMPS, ROOTS OR OTHER SMILLAR OBJECTS LARGER THAN TWO INCHES, NO OTHER MATERIALS OR SUBSTANCES SHALL BE MODED OR DUMPED WITHIN THE MICRO-BIORETENTION PRICTICE THAT MAY BE HARRIFUL TO PLANT GROWTH, OR PROVE A HISIORIANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUNA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COURT 15.080.1.05.

THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLIONING CRITERIA.

\* SOIL COMPONENT - LOWIN SHADO OR SHADY LOW (USDA SOIL TEXTURAL CLASSFICKTION).

\* ORGANIC CONTENT - LIGHBULL TOX BY DRY WEIGHT (ASTIM D 2974). BI GODERAL, THIS CAN BE MET WITH A MIXTURE OF LOWAY SHAD (60X-65X) AND COMPOST (3XX TO 40X) OR SHADY LOWAY (CON), CONSES SHAD (30XF), AND COMPOST (3XX TO 40X) OR SHADY LOWAY (CON), CONSES SHAD (30XF), AND COMPOST (3XX TO 40X) OR SHADY LOWAY (CON), CONSES SHAD (30XF), AND COMPOST (4XX TO 4XX) OR SHADY LOWAY (CON), CONSES SHAD (3XX).

\*\*CLUY CONTENT - MEDIA SHALL HAVE A CLUY CONTENT OF LESS THAN 5X.

\*\*PH RANKE - SHOULD BE BETWEEN 5.5 - 7.0. AMENDMENTS (E.G., LIME, RON SULFATE PLUS SULFUR) MAY BE MODED IN TO THE SOIL TO INCREASE OR DECREASE PH.

IT IS VERY EXPORTANT TO IMMEDIZE COMPACTION OF BOTH THE BASE OF BIORETENTION PRACTICES AND THE REQUIRED BACKFUL WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL IF PRACTICES ARE EXCAVATED USING LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK ECOMPACTION FOR INFORMATION THE PROCESSAY EXCHANGES HAVE CHARACTER THE CONTINUENCE OF MAKEUM THAT IN THE THESE WITH LARGE LUCK, OR HIGH-PRESSURE TREES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILITRATION RATES AND IS NOT ACCEPTABLE. COMPACTION WILL SCHIRCANTLY CONTRIBUTE TO DESIGN FAULURE.

COMPACTION CAN BE ALLEVATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS CHISEL PLOW, RPPER, OR SUBSIDILEY. THESE TILLING OPERATIONS ARE TO REPROCURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENDUCH THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT. ROTOTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIORETEMON FACULTY BEFORE BACKFILLING THE OPTIONAL SAND LAYER. PUMP ANY POINCED WATER BEFORE PREPARING (ROTOTILLING) BASE. MATER BEFORE PREPARING (ROTOFILING) BASE.

WHEN BECKFULING THE CORSOL, OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTOTILL THE SAND/TOPSOIL TO
CREATE A CRUDATION ZONE. BUCKFUL THE REMANDER OF THE TOPSOIL TO FANAL CRUDE.

HEAVY EQUIPMENT CAN BE USED AROUND THE PERMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE RORETENTION MATERIALS WITH LIGHT

HEAVY EQUIPMENT CAN BE USED AROUND THE PERMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE RORETENTION MATERIALS WITH LIGHT

RECOMMENDED PLANT MATERIAL FOR MICRO-BIORETENTION PRACTICES CAN BE FOUND IN APPENDIX A, SECTION A.2.3. 5. PLANT INSTALLATION

COMPOST IS A BETTER ORGANIC MATERIAL SOURCE, IS LESS UKELY TO FLOAT, AND SHOULD BE PLACED IN THE INVERT AND OTHER LOW AREAS, MULCH SHOULD BE PLACED IN SURROUNDING TO A UNBFORM THOCKNESS OF 2° TO 3°. SHREDDED OR CHIPPED HARDWOOD MAUCH IS THE ONLY ACCEPTED HALCH. PINE MAILCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERMETER OF THE BORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL RACED (6 TO 12 MONTHS) FOR ACCEPTANCE. ROOTSTOCK OF THE PLANT MATERIAL SHALL BE KEPT MOST DURING TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8TH OF THE BULL IS ADOVE PAUL CRUE SURFACE. THE DIMETER OF THE PLANTING PIT SHALL BE AT LESST SX NOTES LARGER THAN THE DIMETER OF THE PLANTING PROCESS. SHALL BE BRACED USING 2° BY 2° STANES ONLY AS NECESSARY AND FOR THE PRAST ORDINING SEASON ONLY. STANES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TIRE BALL.

CRASSES AND LEGUME SEED SHOULD BE DREITED WITO THE SOIL TO A DEPTH OF AT LEAST ONE MAY DEPOKE AND LEGUME SPILES SHALL BE BELL. 5. PLANT INSTALLATION OR ATE MOTHER THE SEED SHOULD BE DRILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGIAGE PLUCS SHALL BE PLANTED FOLLOWING: THE MON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

THE TOPSOIL SPECIFICATIONS PROVIDE ENOUGH ORGANIC MATERIAL TO ADEQUATELY SUPPLY MUTRICHTS FROM NATURAL CYCLING. THE PRIMARY FUNCTION OF THE GRORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY. ADDRIG FERTILIZERS DEFEUTS, OR AT A MASMANA, IMPEDES THIS CONL. ONLY ADD FERTILIZER IF WOOD CHIPS OR MULCH ARE USED TO AMENO THE SOIL. ROTOTULL UREA FERTILIZER AT A RATE OF 2 POLATOS PER 1000 SOLARE FEET.

UNDERWARD SHOULD BEEL THE FULLOTIFIC CRITICAL

PPE — SHOULD BE 4\* TO 6\* DIMETER, SLOTED OR PERFORATED RIGID PLASTIC PIPE (ASTMF 758, TYPE PS 28, OR MISHTO—W-278) IN A GRAVEL LATER. THE PREDIRED MIPERAL PS SLOTED, 4\* RODD PPE (E.G., PAC OF HOPE).

PERFORATIONS — IF PERFORATED PIPE IS USED, PERFORATIONS SHOULD BE 3/8\* QUARTER LOCATED 6\* ON CONTER WITH A MANDAUM OF FOUR HOLES PER ROW, PIPE SHALL BE WARPED MIPHON A 1/4\* (NO. 4 OR 444). EVANAGED HARDONIAGE CLOTH.

"RAVEL — THE GRAVEL LATER (NO. 57 STONE PREFERRED) SHALL BE AT LEST 3\* THICK ABOVE AND BOLOW THE UNDERGRAIN.

"THE MAIN COLLECTION PIPE SHALL BE AT A MANDAUM O.S.S. SLOTE.

"A RODD, NOW—PERFORATED GESTRANDON WELL MIST BE PROVIDED (ONE PER EVERY 1,0000 SOURCE FEET) TO PROVIDE A CLEAN—OUT PORT AND MONITOR PERFORMANCE OF THE FILTER.

"A 4\* LATER OF PEA CRAVEL (1/8\* TO 3/8\* STONE) SHALL BE LOCATED BETWEEN THE FILTER MEDIA AND UNDERGRAIN TO PREVENT MICRATION OF FINES IN TO THE UNDERGRAIN, THIS LAYER MAY BE CONSIDERED PART OF THE FILTER BED WHICH BED THICKNESS EXCEDS 24\*. THIS MAIN COLLECTOR PIPE FOR UNDERGRAIN STSTEMS SHALL BE CONSTRUCTED AT A MAINMAIN SLOPE OF 0.5%, DESERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MAINMAIN PER EVERY 1000 SQUARE FEET OF SARFACE AREA).

THESE PRACTICES MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRANAGE AREA HAS BEEN STABILIZED.

REVISION

7852 SW OLD JESSUP ROAD

ZONED: M-2
L.10188/F.162

ENGINEERING, INC.

