## GENERAL NOTES

THE EXISTING TOPOGRAPHY SHOWN HEREON IS A COMPOSITE OF FIELD RUN SURVEYS WITH TWO FOOT INTERVALS, PREPARE BY SHANABERGER AND LANE DATED OCTOBER 30, 2001 AND BY VOGEL ENGINEERING + TIMMONS GROUPS DATED NOVEMBER 2019 AND SUPPLEMENTED WITH ADDITIONAL EXISTING TOPOGRAPHY SHOWN TAKEN FROM AN AERIAL TOPOGRAPHICAL SURVEY PREPARED BY POTOMAC AERIAL SURVEYS, DATED JANUARY 2008, AND FROM APPROVED GRADING PLAN SDP-10-030 WHICH IS TO BE REACTIVATED UNDER WP-21-058. THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON A PLAT BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 2013. THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON A PLAT BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 201 COORDINATES AND ELEVATIONS ARE BASED ON MARYLAND COORDINATE SYSTEM — NAD83(1991) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 43HA AND 48AA.

THE SUBJECT PROPERTY IS ZONED M—2 PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S) OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AVAILABLE THROUGH CONTRACT NO. 24—4399.

PUBLIC SEWER AVAILABLE THROUGH CONTRACT NO. 14—4597—D. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. THERE IS NO 100YR FLOODPLAIN ON SITE.

TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETARIES OR HISTORIC STRUCTURES LOCATED ON—SITE.

1. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETARIES OR HISTORIC STRUCTURES
LOCATED ON—SITE.
2. THERE ARE SEVERAL SMALL AREAS OF NATURALLY OCCURING STEEP SLOPES ON SITE, WITHIN THE LIMITS OF THE EXISTING STREAM BUFFER THAT WILL NOT BE DISTURBED UNDER THIS PLAN. THERE ARE NO NATURALLY OCCURRING STEEP SLOPES WITHIN THE DEVELOPMENT AREA FOR THIS PLAN.
3. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION. THE FOREST CONSERVATION OBLIGATION FOR THIS PLAN HAS BEEN MET UNDER SDP—10—030(FC) PLAT NUMBER 22345, BY PROVIDING ONSITE RETENTION OF 1.01 AC., ONSITE REFORESTATION OF 0.24 AC., AND A FEE IN LIEU PAYMENT OF \$41,817.75 TO THE HO.CO. FOREST CONSERVATION FUND FOR THE REMAINING 1.28 AC. OF REFORESTATION OBLIGATION (1.28 AC.= 55,757 SF. X \$0.75=\$41,817.75).
4. 145,663 S.F. OF FOREST STAND #1 AS DEFINED UNDER SDP—10—030 IS LOCATED ON THIS SITE. APPROXIMATELY 53,022 S.F. OF THE ORIGINAL FOREST STAND #1 WAS CLEARED FROM PARCEL 108A UNDER CAPITAL PROJECT J—4148—C. ANOTHER 88,804 S.F. IS PROPOSED BE CLEARED UNDER THE GRADING PLAN FOR SDP—10—030. APPROXIMATELY 63,411 S.F. OF FOREST STAND #2 AS DEFINED UNDER SDP—10—030 IS LOCATED ON THIS SITE. APPROXIMATELY 19.009 S.F. OF THE ORIGINAL FOREST STAND #2 WAS CLEARED UNDER CAPITAL PROJECT J—4148—C. OF THE ORIGINAL 209.074 S.F. OF FOREST STAND, 48,239 S.F. REMAINS AFTER CLEARING UNDER CAPITAL PROJECT J—4148—C. OF THE ORIGINAL 209.074 S.F. OF FOREST STAND, 48,239 S.F. REMAINING FOREST WAS PLACED UNDER A PUBLIC FOREST CONSERVATION RETENTION EASEMENT, UNDER 10,181 S.F. (0.24 AC.) WAS REPLANTED AND PLACED IN A FOREST CONSERVATION REFORESTATION EASEMENT, UNDER SDP—10—030. EXISTING FOREST CANSERVATION FOREST CONSERVATION REFENTION AND EASEMENT, UNDER SDP—10—030. EXISTING FOREST CRANSING FOREST CONSERVATION REFORESTATION EASEMENT, UNDER SDP—10—030. EXISTING FOREST CRANSING ONSITE AT INITIATION OF THIS PROJECT, INCLUDING FOREST CONSERVATION RETENTION AND EASEMENT, UNDER SDP—10—030. EXISTING FOREST TRANDIN

SDP-10-030. EXISTING FOREST REMAINING ONSITE AT INITIATION OF THIS PROJECT, INICIDING FOREST CONSERVATION RETENTION AND REFORESTATION EASEMENTS, IS 58.420 SF. OR 1.34 C. AN ADDITIONAL 1,985 SF. OF THE REMAINING FOREST STAND IS PROPOSED TO BE CLEARED FROM FOREST STAND #1 ALONG THE NORTHERN AND EASTERN BOUNDARY. NO ADDITIONAL DISTURBANCES TO FOREST STAND #2 ARE PROPOSED UNDER THIS PLAN. APPROXIMATELY 56,435 S.F. OR 1.30 AC. OF FOREST WILL REMAIN ON PARCEL 108-A AT THE COMPLETION OF THIS PLAN. APPROXIMATELY 56,435 S.F. OR 1.30 AC. OF FOREST WILL REMAIN ON PARCEL 108-A AT THE COMPLETION OF THIS PLAN. APPROXIMATELY 56,435 S.F. OR 1.30 AC. OF FOREST WILL REMAIN ON PARCEL 108-A AT THE COMPLETION OF THIS PLAN. APPROXIMATELY 56,435 S.F. OR 1.30 AC. OF FOREST WILL REMAIN ON PARCEL 108-A AT THE CONSTRUCTION OF DIVINE 92 2017. STREAMS, WETLANDS AND THEIR BUFFERS ARE PRESENT ONSITE, BUT NOT WITHIN THE DEVELOPMENT AREA. THE SMALL POND SHOWN WITHIN THE DEVELOPMENT AREA. THE SMALL PONDE THE PROPOSED DEVELOPMENT HE CONSTRUCTION OF DORSEY RUN ROAD UNDER CAPITAL PROJECT #1-4148-C AND IS NOT A NATURALLY OCCURING, REGULATORY WETLAND. THIS POND WAS CREATED SPECIFICALLY FOR THE BENEFIT AND USE OF PARCEL 108-A FOR FUTURE DEVELOPMENT, HOWEVER IT DOES NOT MEET THE NEEDS OF THE PROPOSED DEVELOPMENT UNDER THIS PLAN. ONLY ONSITE RUNOFF IS BEING RECEIVED BY THIS POND. IT DOES NOT RECEIVE RUNOFF FROM DORSEY RUN ROAD OR ANY OTHER EXISTING IMPERVIOUS AREAS, NOR IS IT ACTING AS STORMWATER TREATMENT FOR DORSEY RUN ROAD.

6. A GOTECHNICAL REPORT FOR THIS PROJECT WILL BE PROVIDED AT SITE DEVELOPMENT FOR DAYS 30, 2002 AND REVISED BY ROBERT IL VOGEL REMOILED A PROJECT.

8. THE ORIGINAL FOREST STAND DELINEATION FOR THIS SITE WAS PREPARED BY SITE RESOURCES INC., DATED MAY 30, 2002 AND REVISED BY ROBERT IL VOGEL REGINEED BY JOHN CANOLES AND GRADING WERE NEVER COMPLETED AND THE PLAN BECAME INACTIVE SITE AN

CHAPTERS 3 AND 5 AND ENVIRONMENTAL SITE DESIGN CRITERIA. ESDV MICROSCALE AND BMP PRACTICES INCLUDE TWO

(2) STORM FILTER SYSTEMS TWO (2) SURFACE SAND FILTERS (F-1) AND ONE (1) MICRO-BIORETENTION FACILITY (M-6)
AS WELL AS ADDITIONAL GRAVEL STORAGE AT THE BOTTOM OF FACILITIES FOR RECHARGE VOLUME AS REQUIRED BY HOWARD
COUNTY. THE SITE IS LOCATED IN THE DEEP RUN WATERSHED, WHICH ALSO REQUIRES MANAGMENT OF THE 100 YEAR STORM.
QUANTITY VOLUME WILL BE PROVIDED WITHIN THESE FACILITIES AND DETAILED CACLULATIONS WILL BE PROVIDED AT SDP STAGE.
ALL FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.

3. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND
ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS
PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE
HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN
AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED
REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES
THROUGH THE PLAN REVIEW PROCESS.

4. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT

APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT APPROVAL OF THE PROPOSED SEDIMENT CONTROL SCHEME.

REFERENCE WAIVER PETITION WP-21-058 APPROVED ON FEBRUARY 12, 2021;
THE DIRECTORS OF THE DEPARTMENT OF PLANNING AND ZONING APPROVED THE REQUEST, TO WAIVE SECTIONS 16.156(o)(1)(i)

) ALLOW:

) RE-ACTIVATION OF EXPIRED SDP-10-030.
APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE PETITIONER SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC WORKS - REAL ESTATE SERVICES DIVISION TO EXECUTE THE DEVELOPERS AGREEMENTS FOR SDP-10-030 WITHIN 120 DAYS FROM THE APPROVAL OF THIS ALTERNATIVE COMPLIANCE PETITION (ON OF BEFORE JUNE 12, 2021). THE SITE DEVELOPMENT PLANS FOR THE PROPOSED DEVELOPMENT OF PARCELS 108-A AND 108-B WILL NOT RECEIVE FINAL SIGNATURE APPROVAL UNTIL THE DEVELOPER AGREEMENTS FOR SDP-10-030 HAVE BEEN EXECUTED.

2. THE PETITIONER SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC WORKS - REAL ESTATE SERVICES DIVISION TO ASSUME THE RESPONSIBILITIES OF THE SDP-10-030 FOREST CONSERVATION AGREEMENT WITHIN 120 DAYS FROM THE APPROVAL OF THIS ALTERNATIVE COMPLIANCE PETITION (ON OR BEFORE JUNE 12, 2021). THE PETITIONER SHALL COMPLETE THE REQUIRED REFORESTATION PLANTINGS AND SIGNAGE AS APPROVED ON THE SDP-10-030 FOREST CONSERVATION PLANTING.

3. THE PETITIONER MUST APPLY TO THE DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS FOR GRADING PERMITS TO INITIATE THE MASS-GRADING OF PARCELS 108-A AND 108-B WITHIN 1 YEAR FROM THE APPROVAL OF THIS ALTERNATIVE COMPLIANCE PETITION (ON OR BEFORE FEBRUARY 12, 2022).

4. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE COUNTY AND STATE REGULATIONS AND OBTAIN ALL NECESSARY PERMITS FROM THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND THE SOIL CONSERVATION DISTRICT.

THE DIRECTORS OF THE DEPARTMENT OF PLANNING AND ZONING, RECREATION AND PARKS AND THE OFFICE OF COMMUNITY SUSTAINABILITY APPROVE THE REQUEST FOR ALERNATIVE COMPLIANCE TO SECTION 16.1205(A(3) TO ALLOW: REMOVE TWO (2) SPECIMEN TREES.

APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

THE ALTERNATIVE COMPLIANCE APPROVAL APPLIES ONLY TO SPECIMEN TREES #4 AND #5 AS SHOWN ON THE ALTERNATIVE COMPLIANCE SPECIMEN TREE ASSESSMENT. THE REMOVAL OF ANY OTHER SPECIMEN TREE ON THE SUBJECT PROPERTY IS NOT PERMITTED UNDER THIS APPROVAL. PROTECTIVE MEASURES SHALL BE UTILIZED DURING CONSTRUCTION TO PROTECT THE SPECIMEN TREES THAT ARE PROPOSED TO REMAIN. INCLUDE DETAILS OF THE PROPOSED TREE PROTECTION MEASURES ON THE SITE DEVELOPMENT PLANS THE REMOVAL OF SPECIMEN TREES #4 AND #5 WILL REQUIRE THE PLANTING OF FOUR NATIVE SHADE TREE ON PARCEL 108-A.
THE TREES SHALL BE A MINIMUM OF 3" CALIPER AND SHALL BE SHOWN ON THE SITE DEVELOPMENT PLAN FOR THE PROPOSED TRACTOR TRAILER PARKING AND STORAGE LOT ON PARCEL 108-A. THE TREES WILL BE BONDED ALONG WITH THE REQUIRED

REFERENCE VARIANCE PETITION BA-19-043V TO REDUCE THE 50' STRUCTURE AND USE SETBACK FROM AND EXTERNAL PUBLIC STREET RIGHT-OF-WAY TO 20' FOR TRACTOR TRAILER PARKING AND STORAGE, APPROVED 8/16/20.

## **ENVIRONMENTAL SITE DESIGN NARRATIVE:**

1. THE PROJECT SITE IS ZONED M-2 AND ITS AREA IS APPROXIMATELY 4.81 ACRES. OF THAT, APPROXIMATELY 3.14 AC. WILL BE DISTURBED UNDER THIS PLAN. THE SITE HAS BEEN PREVIOUSLY GRADED AND THE EXISTING STORMWATER MANAGEMENT POND ('E') WAS CONSTRUCTED UNDER CAPITAL PROJECT # J-4148— IN CONJUNCTION WITH THE CONSTRUCTION OF DORSEY RUN ROAD, SPECIFICALLY FOR THE BENEFIT OF THE SUBJECT PROPERTY, AND WAS PART OF THE RIGHT OF WAY NEGOTIATIONS. THIS POND PREDATES THE CURRENT STORMWATER MANAGEMENT REGULATIONS. AT THE SOUTH END OF THE SITE THERE IS A PROTECTED ENVIRONMENTAL AREA INCLUDING A STREAM AND ITS BUFFER, WETLANDS AND WETLAND BUFFERS WHICH WERE INVESTIGATED AND DELINEATED BY ECO—SCIENCE PROFESSIONALS ON JUNE 29, 201 AND EXISTING FORESTS STANDS WHICH WERE DELINEATED BY SITE RESOURCES, INC. A NEW FIELD REVIEW, SPECIMEN TREE ASSESSMENT AND ENVIRONMENTAL REPORT WERE COMPLETED BY JOHN CANOLES AND ECO—SCIENCE PROFESSIONALS, DATED NOVEMBER 2020. ONSITE FOREST AND ENVIRONMENTAL REPORT WERE COMPLETED BY A PREVIOUSLY ESTABLISHED FOREST STAND OUTSTAND A REFORESTATION EASEMENT. AND ENVIRONMENTAL AREAS ARE PROTECTED BY A PREVIOUSLY ESTABLISHED FOREST RETENTION EASEMENT AND A REFORESTATION EASEMENT AS ESTABLISHED UNDER SDP—10—030(FC). THERE IS AN AREA OF EXISTING FOREST STAND OUTSIDE OF THE EXISTING FOREST CONSERVATION EASEMENT, WHICH MAY BE SUBJECT TO ADDITIONAL DISTURBANCE UNDER THE PROPOSED PLAN. THE SITE DRAINS TO THE SOUTH. THERE IS NO DISTURBANCE PROPOSED TO ANY STREAM OR STREAM BUFFER. NO WETLAND OR WETLAND BUFFER DISTURBANCE IS PROPOSED. THE SMALL AREA OF PONDING SHOWN WITHIN THE DEVELOPMENT AREA WAS DETERMINED BY ECO—SCIENCE PROFESSIONALS TO BE AN EXISTING WET BASIN WITHIN AN EXISTING SWM FACILITY. IT WAS CREATED AS PART OF THE CONSTRUCTION OF DORSEY RUN ROAD UNDER CAPITAL PROJECT #J—4148—C AND IS NOT A NATURALLY OCCURING, REGULATORY WETLAND. THE DEVELOPMENT PLAN CALLS FOR IT'S REMOVAL SINCE IT PREDEATES CURRENT STANDARDS AND DOES NOT MEET THE NEEDS OF THE PROPOSED CONCEPT.

2. NO CHANGE TO THE NATURAL DRAINAGE PATTERNS ARE PROPOSED, PLEASE REFER TO THE PROPOSED GRADING, SHEET 2.

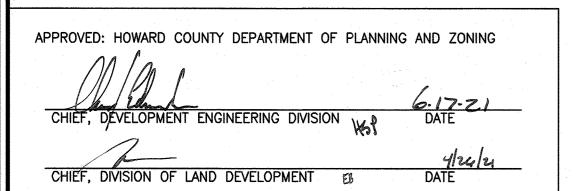
3. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT. THE ESD CONCEPT INCLUDES RETENTION OF NATURAL AREA, THE USE OF MICRO-SCALE AND BEST MANAGEMENT PRACTICES INCLUDING TWO (2) STORM FILTERS, TWO (2) SURFACE SAND FILTERS (F-1) FACILITIES AND ONE (1) MICRO-BIORETENTION (M-6) FACILITY AS WELL AS PROVIDING ADDITIONAL RECHARGE VOLUME BENEATH THESE FACILITIES. THESE FACILITIES WILL BE PRIVATELY OWNED AND

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

. STORMWATER MANAGEMENT FOR THE PROJECT SHALL BE MET THROUGH THE USE OF MICRO-SCALE AND BEST MANAGMENT PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. BMP AND MICRO-SCALE PRACTICES INCLUDING TWO (2) STORM FILTERS, TWO (2) SURFACE SAND FILTERS (F-1) FACILITIES AND ONE (1) MICRO-BIORETENTION FACILITY (M-6) AS WELL AS PROVIDING ADDITIONAL RECHARGE VOLUME BENEATH THESE FACILITES. THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.

6. THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT "WOODS IN GOOD CONDITION" . THE PROJECT SITE IS LOCATED WITHIN THE DEEP RUN WATERSHED, THEREFORE, 100 YEAR QUANTITY MANAGMENT IS REQUIRED. WE HAVE ELECTED TO USE MICRO-BIORETENTION AND STORM FILTER DEVICES TO TREAT THE FIRST 1.00" OF THE ESDV, WITH THE SURFACE SAND FILTER TREATING THE REMAINDER OF THE 2.09"REQUIRED PE. THE 100 YEAR VOLUME WILL BE STORED ABOVE THE ESDV AND FACILITIES ARE SIZED WITH ADDITIONAL VOLUME TO OVER-MANAGE FOR THE BYPASS AREAS.

TARGET PE = 2.09" (1.00" TO BE TREATED IN THE STORMFILTERS AND MICRO-BIORETENTION AREAS AND THE REMAINDER TO BE TREATED IN THE SAND FILTERS.) PROVIDED ESDV = 17,254 CU FT (STORM FILTER=6,848 CU. FT. / MBR=408 CU. FT. / SAND FILTER=12,683



100 YR. VOL. REQUIRED: 17,918 CU. FT. / 0.41 AC. FT (ALL AREAS COMBINED)

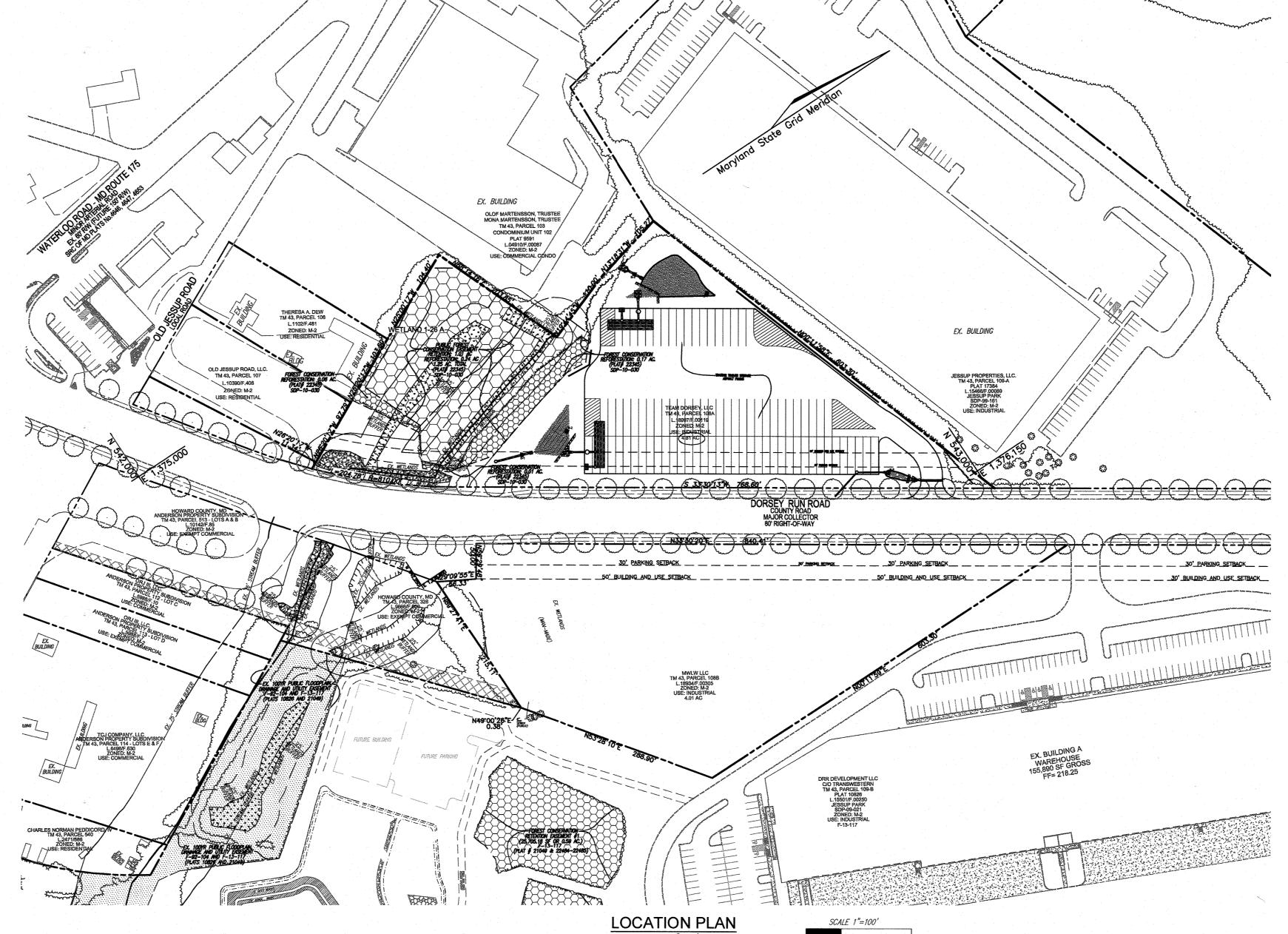
100 YR. VOL. PROVIDED: 23,792 CU. FT. / 0.55 AC. FT. +/- (ALL AREAS COMBINED)

CONDITION	Q2 (CFS)	Q10 (CFS)	Q100 (CFS)
PRE-DEVELOPED CONDITION	1.47	4.73	13.47
DEVELOPED CONDITION (UNMANAGED)	8.44	15.22	28.69
DEVELOPED CONDITION (MANAGED)	1.47	4.73	13.47

VOLUME SUMMARY CHART						
DESCRIPTION	TOTAL REQUIRED (CU. FT.)	SWM #1 PROVIDED (CU. FT.)	SWM #2 PROVIDED (CU. FT.)	SWM #3 PROVIDED (CU. FT.)	TOTAL PROVIDEI (CU. FT.)	
ESDv STORAGE	7404	6220	10604	408	17232	
100 YEAR STORAGE	23583	11921	12352	0	24273	

# JESSUP PARK PARCEL 108-A ENVIRONMENTAL CONCEPT PLAN

7868 DORSEY RUN ROAD JESSUP, MARYLAND 20794



1. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED BUILDING AND/OR GRADING PERMIT 2. REVIEW OF THIS PLAN FOR COMPLIANCE WITH ZONING AND SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SITE DEVELOPMENT AND PERMIT STAGES; AND THEREFORE, THIS PLAN IS SUBJECT TO ADDITIONAL AND MORE DETAILED COMMENTS AS THE PLAN PROGRESSES THROUGH THE PERMIT

3. THERE ARE ENVIRONMENTAL FEATURES: THIS SITE WAS PREVIOUSLY GRADED UNDER CAPITAL PROJECT J-4148-C. THE NATURAL AREAS THAT REMAIN ON THE PROJECT ARE LOCATED IN THE WESTERN PORTION OF THE SITE AND CONSIST OF A STAND OF FOREST, THE MAJORITY OF WHICH IS PROTECTED BY FOREST CONSERVATION EASEMENTS, CONSISTING OF 1.01 ACRES OF RETENTION AND 0.24 ACRES OF REFORESTATION, ESTABLISHED UNDER SDP-10-030(FC).

4. THE SITE DRAINS TO THE SOUTH. THERE IS NO DISTURBANCE PROPOSED TO ANY STREAM OR STREAM BUFFER. NO WETLAND OR WETLAND BUFFER DISTURBANCE IS PROPOSED. THE SMALL AREA OF WETLANDS SHOWN WITHIN THE DEVELOPMENT AREA WAS DETERMINED BY ECO-SCIENCE PROFESSIONALS TO BE AN EXISTING WET BASIN WITHIN AN EXISTING SWM FACILITY AND IS NOT A NATURALLY OCCURING REGULATORY WETLAND. THERE IS AN AREA OF EXISTING FOREST STAND OUTSIDE OF THE EXISTING FOREST CONSERVATION EASEMENT, WHICH MAY BE SUBJECT TO DISTURBANCE UNDER THE PROPOSED PLAN.

5. THERE IS NO FLOODPLAIN ON SITE.

6. FOREST CONSERVATION IS PROVIDED UNDER SDP-10-030 WHICH IS BEING REATIVATED UNDER WP-21-058. REMOVAL OF SPECIMEN TREES SHALL BE COMPLETED UNDER THE REACTIVATED GRADING PLAN AND ARE SHOWN HEREON FOR INFORMATIONAL PURPOSED ONLY.

## SITE ANALYSIS DATA CHART

B. AREA OF STREAMS AND BUFFERS: 36,847 S.F. / 0.85 AC.± C. AREA OF WETLANDS AND BUFFERS: 48,551 S.F. / 1.11 AC.±

. AREA OF FLOODPLAIN: 0 S.F. / 0.00 AC.±

AREA OF FOREST: 56,435 S.F. OR 1.30 AC.

F. AREA OF MDE STEEP SLOPES (20% & GREATER): 31,016 S.F. OR 0.71 AC.± NONE OF THESE INDIVIDUAL AREAS ARE GREATER THAN 20,000 SF CONTIGUOUS.

L. PROPOSED IMPERVIOUS AREA: 91,110 S.F. / 2.09 AC. (\*WITHIN THE LOD)

WP-13-143, SDP-10-030, J-4148-C, WP-21-058, BA-19-043V

G. ERODIBLE SOILS: 73,028 S.F. / 1.68 AC. H. LIMIT OF DISTURBED AREA: 136,916 S.F / 3.14 AC. +/-

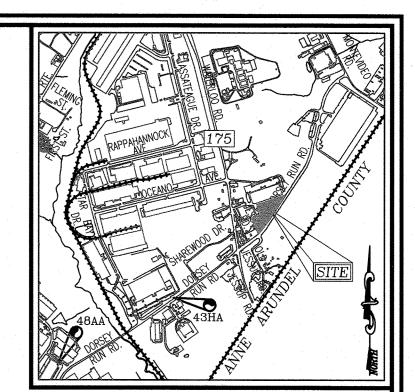
(INCLUDES DISTURBANCE TO RIGHT OF WAY FOR DRIVEWAY CONNECTION) I. PROPOSED DEVELOPMENT AREA: 136,916 S.F / 3.14 AC. +/-

(INCLUDES ONSITE AND RIGHT OF WAY DISTURBANCES) J. PROPOSED USE: TRACTOR AND TRAILER PARKING AND STORAGE K. GREEN OPEN AREA: 45,806 S.F. / 1.05 AC. (\*WITHIN THE LOD)

M. PRESENT ZONING DESIGNATION: M-2 N. DPZ FILE REFERENCES: CONTRACT NO. 24-4399, CONTRACT NO. 14-4597-D, BA-0265C, SDP-03-164 AMERIGAS (VOIDED), WP-11-095, WP-12-084, WP-13-084,

OWNER/DEVELOPER TEAM DORSEY, LLC C/O ERIC ROSENBAUM 2308 FORT WILLIAM DRIVE OLNEY, MD 20832

(301) 787-0220



ADC MAP: 20 K4

## **BENCHMARKS**

HOWARD COUNTY BENCHMARK 48AA N 539,314.900 E 1,371,539.251 ELEV.: 240.78' HOWARD COUNTY BENCHMARK 43HA

N 540,761.716 E 1,373,837.365 ELEV.: 224.89'

## LEGEND

EXISTING TREELINE

PROPOSED CURB AND GUTTER

DRAINAGE & UTILITY EASEMENT

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1 OF 4
SOILS MAP AND GRADING AND SOIL EROSION AND SEDIMENT CONTROL PLAN	2 OF 4
ESDv STORMWATER TABLES, NOTES AND DETAILS	2 OF 4
SWM DRAINAGE AREA MAPS AND SUMMARY TABLES	4 OF 4

# REVISION **ENVIRONMENTAL CONCEPT PLAN**

## **COVER SHEET**

**JESSUP PARK PARCEL 108-A** 

7868 DORSEY RUN ROAD JESSUP, MD 20794 L. 16140 / F. 00371

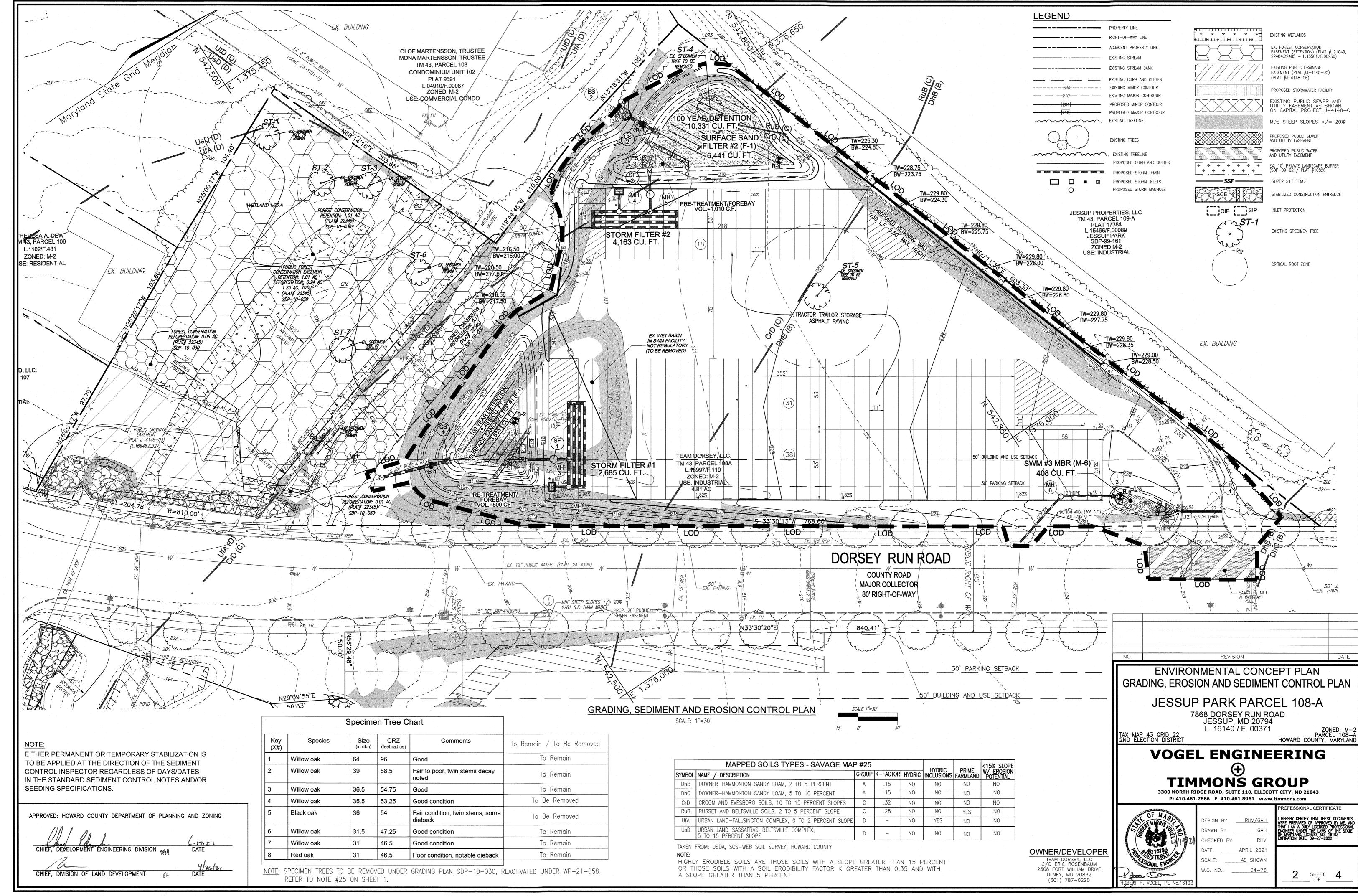
ZONED: M-2 PARCEL 108-A HOWARD COUNTY, MARYLAND FAX MAP 43 GRID 22 2ND ELECTION DISTRICT **VOGEL ENGINEERING** 

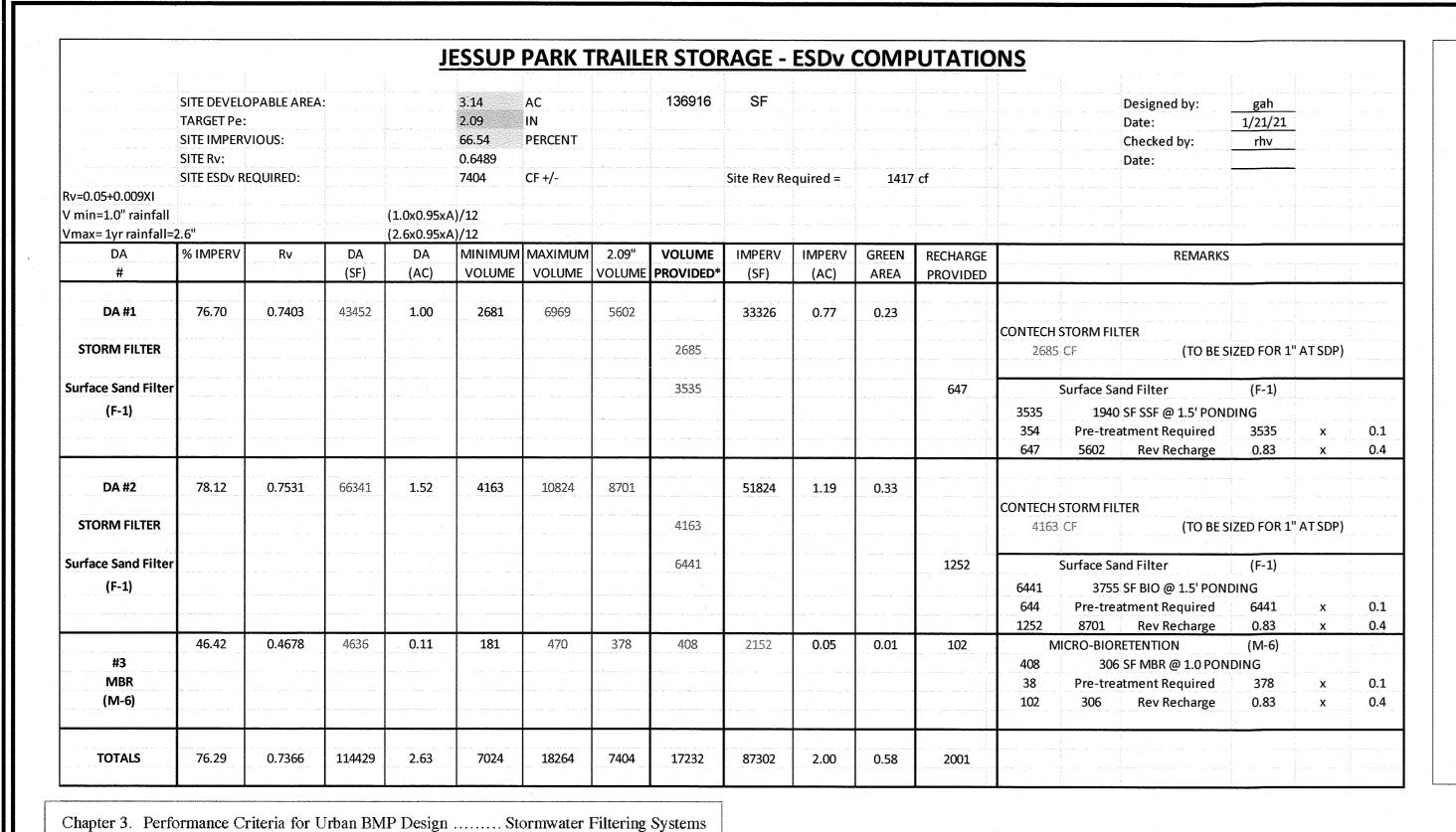
### **TIMMONS GROUP** 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043 P: 410.461.7666 F: 410.461.8961 www.timmons.com

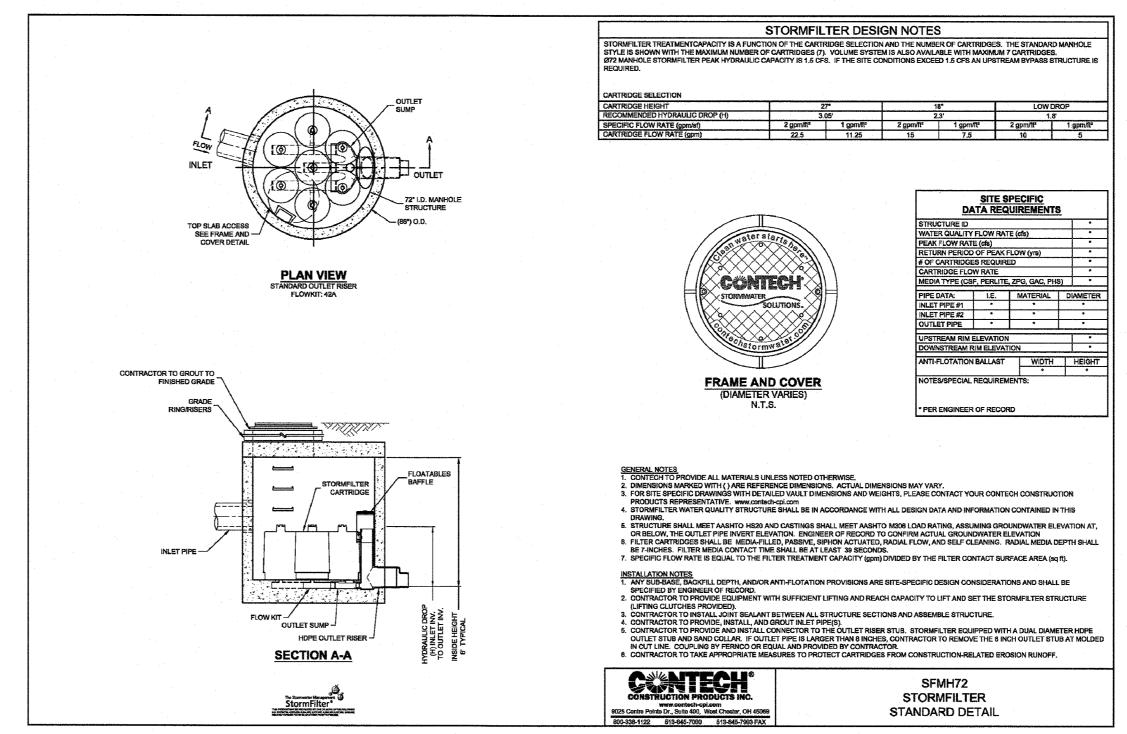


DESIGN BY:	RHV/GAH
DRAWN BY:	GAH
CHECKED BY:	RHV
DATE:	APRIL 2021
SCALE:	AS SHOWN
W.O. NO.:	04-76

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. 16193 EXPIRATION DATE: 09-27-2022







CHEDULE FOR

PONDING

-6" SOLID PVC

(SEE PROFILE)

H-PROVIDE FILTER FABRIC (SIDE ONLY)

MICRO-BIORETENTION (UNDERDRAIN)

2' PLANTING SOI (SEE PLANTING SOI

4" PEA GRAVEL-

(1/8"-3/8" STONE)

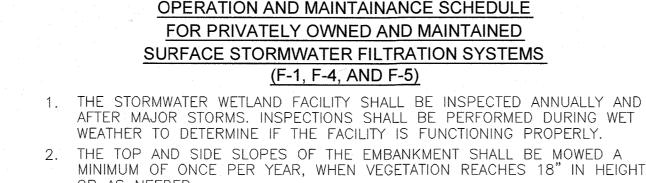
12" (TYP.) #57
WASHED STONE (ESDV)

ADDITIONAL STONE (ESDV

STONE (REV)

CHARACTERISTICS

ELEV.



- 2. THE TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF ONCE PER YEAR, WHEN VEGETATION REACHES 18" IN HEIGHT
- 3. FILTERS THAT HAVE A GRASS COVER SHALL BE MOWED A MINIMUM OF THREE (3) TIMES PER GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 12 INCHES.
- 4. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
- 5. VISIBLE SIGNS OF EROSION IN THE FACILITY SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
- 6. REMOVE SILT WHEN IT EXCEEDS FOUR (4) INCHES DEEP IN THE FOREBAY. 7. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 72 HOURS, THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED BY THE
- 8. A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- 9. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE
- 10. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION SYSTEM 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.

## OPERATION AND MAINTENANCE SCHEDULE FOR (M-6), (M-7) AND (M-8) MICROBIORETENTION AREAS

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. 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. 2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES. 3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS. 4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF

## MICROBIORETENTION AND RAINGARDEN NOTES:

1. ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETNTION WILL CAUSE THE MBR TO FAIL, AND THERFORE SHALL NOT BE INSTALLED. 2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH. 3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFERATED PIPE THROUGH STONE RESIVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS.

NOTE: 50% OF MICRO-BIORETENTION AND RAIN GARDEN SURFACE AREA SHALL BE PLANTED.

ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

(SEE PLANS)

## ROUND PLASTIC-ATRIUM GRATE LAYER 2' PLANTING SOIL (SEE PLANTING SOIL PROVIDE FILTER 4"-6" OVERFLOW DISTRIBUTION PIPE CHARACTERISTICS 4" PEA GRAVEL-(1/8"-3/8" STONE)ADDITIONAL STONE (ESDV) 6" UNDER DRAIN-

MICRO-BIORETENTION (OVERFLOW)

TYPICAL MICRO-BIORETENTION M-6 (MBR#1, MBR#3, MBR#4 AND MBR#5)

EITHER PERMANENT OR TEMPORARY STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR REGARDLESS OF DAYS/DATES IN THE STANDARD SEDIMENT CONTROL NOTES AND/OR SEEDING SPECIFICATIONS.

Media Cartridge Filtration System Drawing Specifications

Each rechargeable, media-filled, filter cartridge shall incorporate a protective hood over the

life of the filter media and to reduce the accumulation of material on the cartridge/media

• At the design flow rate the maximum filter hydraulic loading rate is not to exceed 2.1 gallons per

• The media cartridge filtration system shall consist of no less than 0.12 cubic feet of filter media

Filter cartridges shall be of a design that has demonstrated a minimum sediment retention

capacity of 22 pounds of silty loam per cartridge in laboratory tests without a reduction in

hydraulic capacity. Laboratory data shall be corroborated with field observations and/or

• The Filtration system shall have the State of Washington Department of Ecology, General Use

Level Designation (GULD) Certification and current approval status from the New Jersey

data demonstrating equivalent or improved longevity without impacting normal

minute per square foot of filter surface area and the average contact time shall be no less than

Media filter cartridges shall operate at a predetermined flow rate through the use of an

integrated flow control orifice located within each filter cartridge outlet manifold.

• The media-filled cartridges shall trap particulates (TSS) and have the capacity to adsorb

pollutants such as dissolved metals, nutrients and hydrocarbons.

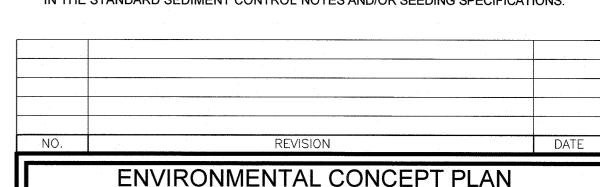
for each 1-gallon per minute of water quality treatment flow.

Department of Environmental Protection. (NJDEP).

interface.

hydraulic performance.

media cartridge and a siphon-actuated surface self-cleaning mechanism to increase the effective



ESDv STORMWATER TABLES, NOTES AND DETAILS

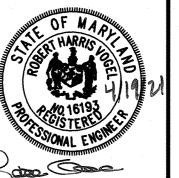
**JESSUP PARK PARCEL 108-A** 

7868 DORSEY RUN ROAD JESSUP, MD 20794 ZONED: M-2 PARCEL 108-A HOWARD COUNTY, MARYLAND

L. 16140 / F. 00371

# **VOGEL ENGINEERING**

**TIMMONS GROUP** 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043



OWNER/DEVELOPER

TEAM DORSEY, LLC C/O ERIC ROSENBAUM

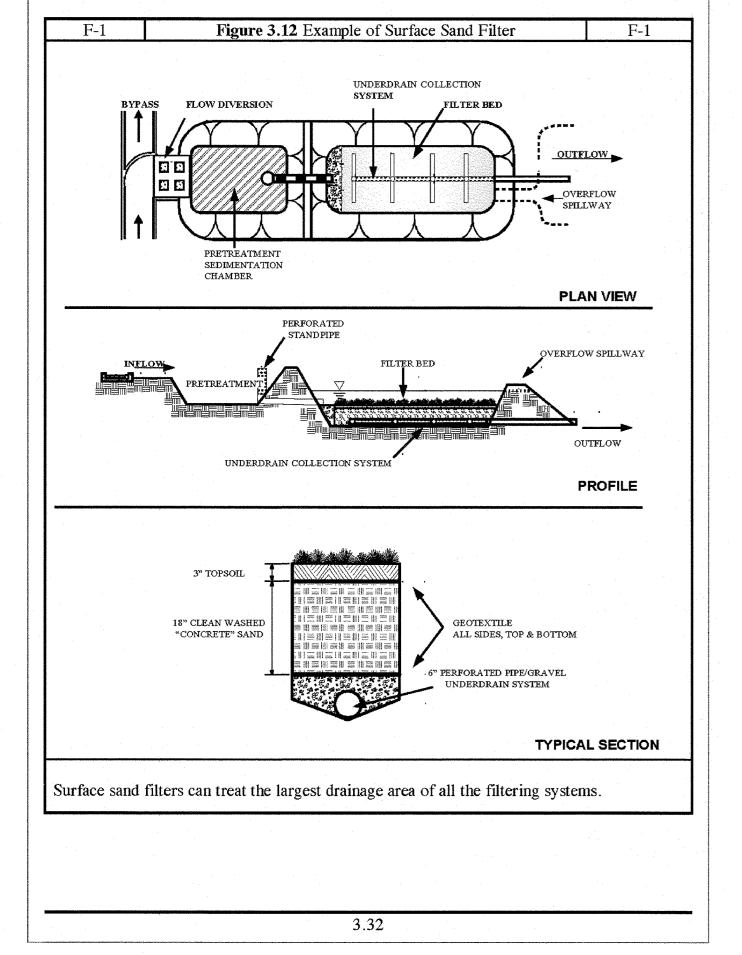
2308 FORT WILLIAM DRIVE

OLNEY, MD 20832 (301) 787-0220

TAX MAP 43 GRID 22 2ND ELECTION DISTRICT

CHECKED BY: DATE: SCALE: AS SHOWN 04-76 W.O. NO.:

P: 410.461.7666 F: 410.461.8961 www.timmons.com



TYPICAL F-1 SURFACE SAND FILTER **DETAILS** SCALE: N.T.S.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION WAS CHIÉF, DÍVISION OF LAND DEVELOPMENT



ECP-20-019

