ENVIRONMENTAL CONCEPT PLAN DESIGN NARRATIVE

ALL NATURAL FEATURES HAVE BEEN DEPICTED ON THE EXISTING CONDITIONS PLAN, THE SITE CONTAINS AREAS OF WOODED VEGETATION, IMPACTS TO THE EXISTING WOODED AND VEGETATED AREAS WILL BE MINIMIZED DURING

THE PROPOSED SITE DRAINAGE WILL MAINTAIN THE EXISTING CONDITION OF FLOW PATTERNS WHEREVER FEASIBLE DURING DEVELOPMENT EFFORTS. ALL DRAINAGE FROM THE PROPOSED DEVELOPMENT WILL BE DIRECTED TO THE

THE PROPOSED DEVELOPMENT HAS MINIMIZED IMPERVIOUS SURFACES TO THOSE REQUIRED TO SUPPORT THE INTENDED LAND-USES (HOUSES, PARKING AREAS, DRIVEWAYS, AND ASSOCIATED TIE-INS TO EXISTING ROADS AND PARKING LOTS). THESE AREAS HAVE BEEN MINIMIZED TO PROVIDE MINIMUM ACCESS

CONSIDERATION OF THE PROPOSED STORMWATER MANAGEMENT STRATEGIES THE USE OF A STABILIZED CONSTRUCTION ENTRANCE WILL REDUCE SEDIMENT FROM BEING TRACKED OFF-SITE. TEMPORARY STABILIZATION PRACTICES (SEEDING AND STRAW, EROSION CONTROL MATTING, ETC) WILL BE IMPLEMENTED THROUGHOUT CONSTRUCTION PER SOIL EROSION AND SEDIMENT CONTROL

THE PROPOSED ESD PRACTICES WERE LOCATED AND DESIGNED TO PROVIDE TREATMENT AS CLOSE TO THE SOURCE AS FEASIBLE. TO MINIMIZE REQUIRED TREATMENT ONSITE, SITE PLANNING TECHNIQUES WERE UTILIZED TO MINIMIZE THE PROPOSED IMPERVIOUS SURFACE COVERAGE.

PERMEABLE PAVEMENT IS NOT FEASIBLE DUE TO THE ANTICIPATED LIMITED INFILTRATION RATES OF THE "D"-TYPE SOILS, REQUIRED FILL LOCATIONS, AND

NON-STRUCTURAL PRACTICES (DISCONNECTIONS) HAVE BEEN CONSIDERED NOT FEASIBLE WITHIN THE PROPOSED DEVELOPMENT DUE TO THE EXISTING TOPOGRAPHY AND EXCESSIVE DISCONNECTION LENGTHS THAT WOULD BE REQUIRED, ADDITIONAL DISTURBANCE WOULD BE REQUIRED TO ENSURE PROPER DISCONNECTION SLOPES. THIS IS A IN-FILL DEVELOPMENT THEREFORE DISCONNECTIONS ARE NOT ALLOWED PER CODE

MICRO-SCALE PRACTICES HAVE BEEN IMPLEMENTED TO THE MAXIMUM EXTENT PRACTICABLE. THE PARKING AREA AND MAIN DRIVE AISLE ARE TO BE TREATED BY A PROPOSED LANDSCAPE INFILTRATION FACILITY. THE DRIVEWAY BETWEEN THE TWO PROPOSED HOUSES IS TO BE TREATED BY TWO MICRO-BIORETENTION FACILITY FOR ALL OF THE MICRO-SCALE PRACTICES, DRAINAGE AREAS HAVE BEEN MINIMIZED TO THE PRACTICES TO ENSURE PROPER FUNCTION. PER HOWARD COUNTY STORMWATER MANAGEMENT REQUIREMENTS, NO ESDV WILL BE COUNTED IN THE SOIL MEDIA, ONLY IN THE PONDING ABOVE THE MEDIA.

AFTER EXHAUSTING THE IMPLEMENTATION OF MICRO-SCALE FACILITIES. ADDITIONAL CHAPTER 3 PRACTICES MAY BE UTILIZED TO MEET THE REMAINING STORMWATER MANAGEMENT REQUIREMENTS FOR THE SITE, INCLUDING

AS ADOPTED BY THE HOWARD COUNTY STORMWATER MANAGEMENT, GRADING MANAGEMENT DESIGN MANUAL STATES THAT BECAUSE THE PROJECT IS RESIDENTIAL, THE DEVELOPMENT DOES NOT QUALIFY FOR REDEVELOPMENT BASED ON THE PROPOSED 0.23 ACRES OF IMPERVIOUS AREAS TO BE DEVELOPED AS PART OF THIS PROJECT. THE IMPERVIOUS AREA REQUIRING TREATMENT WILL BE 0.23 AC (REFER TO APPENDIX D). BASED ON THE PROPOSED IMPERVIOUS WITH THIS AREA IS 1,572 CF; REFER TO APPENDIX C FOR ENVIRONMENTAL SITE

DESIGN COMPUTATIONS. WATER QUALITY TREATMENT SHALL BE PROVIDED THROUGH THE IMPLEMENTATION OF ENVIRONMENTAL SITE DESIGN. ENVIRONMENTAL SITE DESIGN NON-STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT PRACTICABLE (MEP). HOWEVER, IN AREAS WHERE PROPOSED LAND USE, ENVIRONMENTAL CONSTRAINT, OR ADDITIONAL EASEMENT AND/OR RIGHT-OF-WAY CONSTRAINTS LIMIT ESD IMPLEMENTATION, NON-STRUCTURAL WATER QUALITY BMP'S SHALL BE IMPLEMENTED TO TREAT THE REMAINING IMPERVIOUS AREAS. THE STORMWATER FACILITIES WILL BE OWNED AND MAINTAINED BY THE OWNERS

STORMWATER QUANTITY CONTROL - CHANNEL PROTECTION VOLUME TO THE MAXIMUM EXTENT PRACTICABLE, BUT SINCE THE PROJECT IS WITHIN THE DEEP RUN WATERSHED, EXTRA STORAGE WILL BE REQUIRED, EXTRA STORAGE

HAS BEEN PROVIDED IN SWM 2 AND SWM 3 TO PROVIDE CHANNEL PROTECTION

SURFACE STORAGE OF THE FACILITIES, THEREFORE, THERE IS ADEQUATE OUTFALL AND NO ADDITIONAL SITE ATTENUATION IS REQUIRED. THE PROJECT IS WITHIN THE DEEP RUN WATERSHED, EXTRA STORAGE HAS BEEN PROVIDED FOR

Qp AND Qf HAS BEEN MANAGED.

OF EACH INDIVIDUAL PROPOSED LOT.

BASED ON COORDINATION WITH SHA, MDOT SHA WILL NOT REQUIRE DEDICATION OF THE ULTIMATE R/W WITH THE SUBDIVISION PLAN. WHEN THE PROPOSAL IS PUT FORTH TO DEMOLISH THE EXISTING STRUCTURE AND PROPOSE NEW RESIDENTIAL USES OUTSIDE OF THE ULTIMATE R/W. MDOT SHA WILL REQUIRE DEDICATION OF THE ULTIMATE R/W AT THAT TIME

Existing Natural Resources:

Y Yes, feature present on site and shown

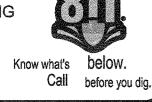
	Federal		State		Local	Local Site Areas and Uses		
	N/A	Wetlands	N/A	Tidal and Nontidal Wetlands	Υ	Steep Slopes (>15%)	0.61	LOD Area (AC)
14,	N/A	Major Waterways	N/A	Wetlands of Special State Concern	N/A	Highly Erodible Soils	0.09	Imp. Area (AC)
	N/A	Floodplains	N/A	Wetland Buffers	N/A	Enhanced Stream Buffers	0.52	Open Area (AC)
			N/A	Stream Buffers	Υ	Topography/Slopes	Υ	Buildings
			N/A	Perennial Streams	N/A	Springs	N/A	Roadways
			N/A	Floodplains	N/A	Seeps	Υ	Parking Lots
		**	N/A	Forest	N/A	Intermittent Streams	N/A	Sidewalks
			N/A	Forest Buffers	Y	Vegetative Cover	Υ	Storm Drain
			N/A	Critical Areas	Y	Soils	γ	SWM Facilities
					81 / A	Dadrade /Caslani	Υ	Dom.
					N/A	Bedrock/Geology		Water/Sewer
					٧	Existing Drainage		D
					Y	Areas	Y	Dry Utilities
	N/A Not applicable, feature not present on site.			No, feature present on site but not shown due				

STANDARD STABILIZATION NOTE

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- a. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES
- STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING

BEFORE YOU DIG

IT'S THE LAW!



ENVIRONMENTAL CONCEPT PLAN

BADART SUBDIVISION HOWARD COUNTY, MD



SHEET INDEX				
Sheet Number	Sheet Title			
1 OF 3	COVER SHEET			
2 OF 3	EXISTING CONDITIONS AND INITIAL SESC PLAN			
3 OF 3	CONCEPT SWM AND FINAL SESC PLAN			

PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS. 7. HOWARD COUNTY GEODETIC COORDINATES REFERENCED IN

VICINITY MAP: N 559644.0000, E 1370513.0100 N 559429.9950, E 1370346.9900

- 8. THE EXISTING STRUCTURE ON THE PROPERTY IS TO REMAIN. 9. F-87-154 WHICH IS THE BADART SUBDIVISION PLAT #9357 APPLY TO
- THE SUBJECT PROPERTY. 10. THERE IS NO KNOWN STORM DRAIN ON THE PROPERTY, WATERLOO ROAD IS CURRENTLY DESIGNED AS AN OPEN SECTION, WITH GRASSED CHANNELS ON EITHER SIDE OF THE ROAD.

0 TO 5 PERCENT SLOPES URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX,

SOILS LEGEND

- N 559644.0000 E 1370513.0100 E 1370346.9900

VICINITY MAP SCALE 1"=2000

SITE AN	IALYSIS DATA			
CHART				
TOTAL PROJECT AREA:	0.757 ACRES (32,962SF)			
ZONING:	R-SC (RESIDENTIAL-SINGLE CLUSTER)			
EXISTING USES:	1 MULTI-FAMILY RESIDENTIAL BUILDING (6 UNITS)			
PROPOSED USES:	1 MULTI-FAMILY RESIDENTIAL BUILDING (6 UNITS) AND 2 SINGLE-FAMILY DETACHED HOMES			
LOD AREA:	0.61 ACRES			
GREEN OPEN AREA:	0.38 ACRES			
PROPOSED IMPERVIOUS AREA:	0.23 ACRES			
WETLAND AREA:	0 ACRES			
WETLAND BUFFER AREA:	0 ACRES			
STREAM AREA:	0 ACRES			
STREAM BUFFER AREA:	0 ACRES			
FLOODPLAIN AREA:	0 ACRES			
STEEP SLOPE AREA (>15%):	0.07 ACRES			

1215 E FORT AVE, SUITE 304 BALTIMORE, MD 21230 CONTACT: NICHOLAS LEFFNER, P.E. PHONE: 443-743-3470 WWW.KIMLEY-HORN.COM GLOBAL NOVARE, INC. P.O. BOX 27006

> PHONE: 443-668-2527 6205 WATERLOO ROAD HOWARD COUNTY, MARYLAND TAX MAP NO: 37 PARCEL: 122

BALTIMORE, MD 21230

ZONING: R-SC FIRST ELECTION DISTRICT			
KHA PROJECT NO.:	114033000		
SCALE:	AS SHOWN		
DATE:	05/22/2018		
DESIGNED BY:	KMR		
DRAWN BY:	KMR		
CHECKED BY:	NJL		



PROFESSIONAL CETIFICATION. 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: 51977

ENVIRONMENTAL CONCEPT PLAN

BADART SUBDIVISION **ZONING - R-SC**

6205 WATERLOO RD PREPARED FOR GLOBAL NOVARE, INC.

HOWARD COUNTY MARYLAND

8/16/22 CHIEF, DIVISION OF LAND DEVELOPMENTM

ADDRESS CHART

8.19.22 DATE

LOT/PARCEL# STREET ADDRESS PARCEL 122, LOT 2 6205 WATERLOO ROAD, **ELLICOTT CITY, MD 21043** DEDMIT INICODMATION OUADT

EXISTING SERVICE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

	MEI	KIVII I	NFURINA	TION CHA	4KI
BDIVISION NAME DART SUBDIVISION			SECTION/AREA	LOT/PARCEL NO. PARCEL 122, LOTS 2	
AT # OR : #9357	GRID #14	ZONING R-SC	TAX MAP NO. 37	ELECT DISTRICT 1	CENSUS TRACT 601108
. ~~~ ~~~			OFWED OODE		

COVER SHEET

SHEET NUMBER 1 OF 3

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 PLAN AND LAND DEVELOPMENT OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICATIN AND CONSULTANT SHOULD EXPECT

11. NONCONFORMING USE HAS BEEN SUBMITTED - NO. NCU-19-001. THE USE WAS WITHDRAWN AS THE APARTMENT USE WAS ESTABLISHED

5 TO 15 PERCENT SLOPES WATER CODE

SOIL TYPE BOUNDARY

URBAN LAND-CHILLUM-

BELTSVILLE COMPLEX,

ECP-18-058

4. SUBJECT PROPERY IS EXEMPT FROM HOWARD COUNTY FOREST CONSERVATION REGULATIONS BECAUSE THE EXISTING LOT IS LESS THAN 40,000SF

ALL EXISTING CONDITIONS ARE PROVIDED BY HOWARD COUNTY GIS

DATA, AERIAL IMAGERY, PREVIOUSLY RECORDED PLATS, AND

RECORDED PLAT OF BADART SUBDIVISION LOTS 1 AND 2 (PLAT

PREVIOUSLY APPROVED SITE DEVELOPMENT PLANS.

2. PROPERTY LINE OF SUBJECT PROPERTY IS ACCORDING TO

3. SANITARY SEWER EASEMENT LOCATED ON SUBJECT PROPERTY IS ACCORDING TO RECORDED PLAT OF BADART SUBDIVISION LOTS 1 REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS

5. ACCORDING TO GIS DATA AND AERIAL IMAGERY, THERE IS NO

OBSERVABLE EVIDENCE OF WETLAND AREAS, WETLAND BUFFERS,

STREAMS, STREAM BUFFERS, FLOODPLAIN, NOR FOREST STANDS

APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF

