

J:\2695 Gunter Properties\dwg\PARCEL B ECPV2.dwg, 5/5/2020 1:17:26 PM

GENERAL NOTES

PRIOR TO THE START OF WORK.

43CC WERE USED FOR THIS PROJECT.

- 1. THE SUBJECT PROPERTY IS ZONED TOD PER THE 10/06/13 COMPREHENSIVE ZONING PLAN. 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- 3. 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
- 4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS EXCAVATION WORK BEING DONE.
- 5. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 6. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- . ALL EXISTING TOPOGRAPHY IS TAKEN FROM FIELD A RUN SURVEY WITH 2 FOOT CONTOUR INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC. DATED NOVEMBER 2016 AND HOWARD COUNTY GIS.
- 8. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS 43CA AND
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT WILL BE PROVIDED BY ESD PRACTICES TO INCLUDE ONE (1) MICRO-BIORETENTION FACILITY AND EIGHT (8) BIO-CLEAN INLETS AS WELL AS AN EXTENDED DETENTION FACILITY AND UNDERGROUND STORAGE CHMBERS FOR THE REQUIRED 10 & 100 YEAR
- MANAGEMENT. FACILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED 10. EXISTING UTILITIES LOCATIONS ARE BASED ON FIELD LOCATIONS, MARKINGS BY MISS UTILITY AND AS—BUILT
- DRAWINGS. THERE IS NO FLOODPLAIN LOCATED ON THE PROPERTY.
- 12. THERE ARE NO WETLANDS LOCATED ON THE PROPERTY BASED ON A FIELD ANALYSIS PERFORMED BY HILLIS-CARNES ENGINEERING ASSOCIATED DATED MARCH 2016.

FACILITY TYPE

UG STORAGE CHAMBERS

EXT. DETENTION

EXT. DETENTION

13. A FOREST STAND DELINEATION FIELD STUDY WAS PERFORMED BY MICHAEL J. KLEBASKO (QUALIFIED

PROFESSIONAL UNDER COMAR 08.19.06.01) DATED MARCH 25, 2016 AND SEPTEMBER 23, 2016.

STORM

ELEV 191.633 STAMPED (BRASS OR ALUMINUM) DISC SET TOP OF A 3' DEEP COLUMN OF CONCRETE AT CORNER US-1 AND DORSEY ROAD E 13793880380 ELEV.163.700 CONCRETE MONUMENT WITH BRASS DISC AT RT-103(DORSEY ROAD)1/3 MI.E.US-29 E 1381152.814

STORAGE CHART			
OSED RUNOFF**	STORAGE REQUIRED	STORAGE PROVIDED	
15.92 cfs	5,663 cf	5,700 cf±	
31.25 cfs	14,811 cf	15,000 cf±	
6.44 cfs	3.050 cf	3.267 cf+	

** DEVELOPED RUNOFF BEFORE ROUTING THROUGH FACILITY.

ESD SUMMARY TABLE														
Pe= 1.8 inches														
D.A.	MDE Type	E Type Total DA(SF)	Impervious Area(SF)	Qe	Af			ESDv						
D.A.	MDL Type				Required	Provided	2% DA	Depth	Required	Provided	75% ESDv	RV	Pe	
MBR 1	(M-6)	26,805	12,900	0.87	536	730	PASS	1.0	1457	3349	PASS	0.48	2.60	
BC-1A	(M-6)	18,295	13,721	1.30	ŀ			:	1492	1493	PASS	0.72	1.80	
BC-1B	(M-6)	18,295	13,721	1.30					1492	1492	PASS	0.72	1.80	
BC-2	(M-6)	6,100	6,100	1.71	DETA	ILED DE	SIGN O	F	652	652	PASS	0.95	1.80	
BC-3	(M-6)	6,100	6,100	1.71	BIO-C	LEAN IN	ILETS T	O	652	652	PASS	0.95	1.80	
BC-4	(M-6)	4,800	4,800	1.71	BE	PROVID	ED AT		513	513	PASS	0.95	1.80	
BC-5	(M-6)	18,733	12,510	1.17	l l	NEXT ST	AGE		1372	1373	PASS	0.65	1.80	
BC-6	(M-6)	10,500	10,500	1.71					1122	1122	PASS	0.95	1.80	
BC-7	(M-6)	13,510	13,510	1.71					1444	1444	PASS	0.95	1.80	
To	tals	26,805	12,900						10,196	12,090				

BENCH MARKS (NAD'83)

HO.CO. No.43CA

HO.CO. No.43CC

N 5526860129

N 553201.462

MBR: DENOTES MICRO-BIORETENTION FACILITY

BC: DENOTED BIO-CLEAN INLET

SITE SUMMARY

METHODS ANTICIPATED: ESDv Required: 10,196cf

One Micro-bioretention facility (3,349cf ESDv and 512cf Rev)

Eight (8) Bio-Clean Inlets (8,741cf ESDv and 307cf Rev)

10-100 YEAR SWM S

EXISTING RUNOFF

27.83 cfs

5.14 cfs

ESDv Provided: 12,090 cf

10-100 Year Management:

Underground storage chambers with control structure to manage the storms: (15,000CF) for the 10 yr (14.44cfs) and the 100 yr (27.83cfs).

Extended Detention Facility with control structure to manage storms: (7,069CF) for the 10 yr (5.14cfs) and the 100 yr (11.76cfs)

APPROVAL OF THIS ECP PLAN DOES NOT CONSTITUTE
ANY APPROVALS OF SUBSEQUENT SUBDIVISION PLANS SITE DEVELOPMENT PLANS OR REDLINE REVISIONS TO APPROVED SITE DEVELOPMENT PLANS, FOREST CONSERVATION PLANS AND GRADING OR BUILDING PERMITS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS THAT MAY ALTER THE SITE DESIGN, HOUSE OR STRUCTURE LOCATION, DRIVEWAY LOCATION, GRADING, TREE CLEARING AND/OR OTHER REQUIREMENTS AS THE DEVELOPMENT PLAN PROGRESSES THROUGH THE PLAN REVIEW AND/OR PERMIT APPLICATION PROCESS IN ACCORDANCE WITH THE SUBDIVISION, LAND DEVELOPMENT AND ZONING REGULATIONS AND THE FOREST CONSERVATION REQUIREMENTS.

DESIGN NARRITIVE

The Corridor Square, Parcel B property is approximately 4.25 acres in area, located at the southeast intersection of Route 1 (Washington Boulevard) and Dorsey Road. The property is zoned T.O.D. A portion of the property to the north was previously developed as an auto auction building with several garages and associated parking. The area to the south of the parcel is partially wooded. Slopes across the site are gradual draining east to Dorsey Road. Soils across the site consist of Urban Land-Udorthents and Russett and Beltsville identified as Hydrologic Groups D and C, predominately D soils.

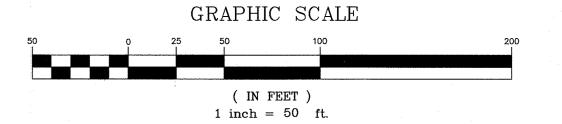
The proposed development is for a convenience store and townhouses. The use of Bio-Clean Inlets (M-6) and a Bio-Retention (M-6) will provide the required ESD requirements. In addition to the required ESD, management of the 10 year and 100 year is required since this site drains to a tributary to the Deep Run above a railroad stream crossing (per the Design Manual Volume I, Section 5.2.1). Stormwater Control is proposed by means of an Extended Detention Facility and underground storage chambers. Where the future lane restriping is show it is anticipated that there will be minimal to no additional impervious necessary due to the current curb cuts and shoulder that exist. This site falls within the Patapsco River Lower North Branch watershed designation 02-13-09.

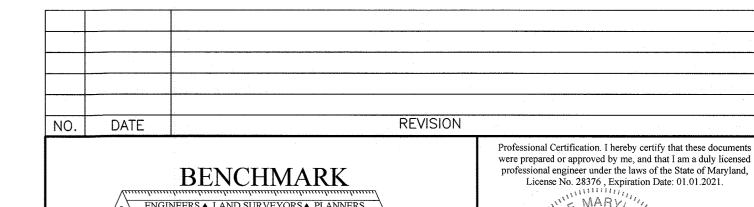
As a result of addressing the stormwater management by use of ESD to the MEP the land conditions have theoretically been returned to woods in good condition and therefore reduced the overall run-off for the 1-year storm. A reduction in impervious area with the use of bioretention through micro-bio and bio-clean inlets makes for a better site design as well as maintaining the original drainage patterns.

Sediment and erosion control shall comply with the latest edition of the MDE Standards and Specifications for Sediment Control and has been limited to the areas necessary to conduct ESD practices and onsite functionality

It is concluded that all ESD requirements as defined in the Stormwater Management Act of 2007 have been met for the proposed development to the MEP. The Water Quality has been provided by a bioretention facility (M-6) and seven (8) Bio-Clean facilities(M-6).

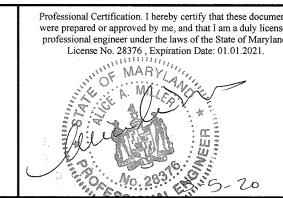
There is minimal forest located on this site. It is anticipated that the required forest conservation obligations for this site will be provided by an offsite bank.





● ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM

DESIGN: JCO | DRAFT: JCO



			10 No. 283 S.S.	5-20			
OWNER:			77,711000000000000000000000000000000000				
CORRIDOR SQUARE, LLC 6800 DEERPATH ROAD ELKRIDGE, MD 21075 410.579.2442			R SQUARE CEL B				
DEVELOPER:	TAX MAP 43 — GRID 24 — PARCEL 265 ELECTION DISTRICT NO. 1 — HOWARD COUNTY, MARYLAND ZONED : T.O.D.						
CORRIDOR SQUARE, LLC C/O H & H ROCK COMPANIES 6800 DEERPATH ROAD ELKRIDGE, MD 21075	ENVIRONMENTAL CONCEPT PLAN						
410.579.2442	DATE:	MAY 2020	BEI PROJECT NO.	2695			

1"=50

SCALE:

ECA 20.011

1 OF 1