GENERAL NOTES

- 1. SUBJECT PROPERTY ZONED R-20 PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN. PROPERTY ADDRESS: 5081 CEDAR LANE, COLUMBIA, MARYLAND 21044
- TOTAL AREA OF PROPERTY: 14.69 AC.±
- 4. PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS SITE.
- 5. THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY HOWARD COUNTY SURVEY DIVISION ON OCTOBER 23, 2017. THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY HOWARD COUNTY SURVEY DIVISION ON OCTOBER 23, 2017. THE EXISTING
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE. 8. NO WETLANDS, STREAMS OR BUFFERS ARE PRESENT ON SITE.
- 9. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN
- CONSTRUCTION PLANS FIELD SURVEYS PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE

- DEVELOPMENT PLAN STAGES OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS
- 16. THE STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET BY N-2, NON-ROOFTOP DISCONNECTION. THE ARTIFICIAL TURF WILL BE TREATED WITH ITS GRAVEL RESERVOIR DESIGN. 17. PREVIOUS DPZ FILE REFERENCES: SDP-83-41.
- 18. FOREST CONSERVATION IS REQUIRED AND WILL BE ADDRESSED AT THE SIDD STAGE

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

1. STEEP SLOPES EXIST ON-SITE IN THE AREA OF DEVELOPMENT. IF NECESSARY, A WAIVER WILL BE

BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.

- SUBMITTED FOR THESE FEATURES TO REMAIN ON THE PROPOSED LOTS AND/OR BE DISTURBED. NO AS STREET TREES AND PARKING LOT TREES. THE AREA IS NATURALIZED AND HAS A GRAVEL PATH. NO OTHER FORESTS, WETLANDS, STREAMS AND ASSOCIATED BUFFERS WERE FOUND ON SITE. 2. STORMWATER MANAGEMENT OBLIGATIONS WILL BE TREATED BY UTILIZING SHEET FLOW, NON ROOFTOP
- 3. TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED BY DIRECTING STORM DRAIN, AND SHEET FLOW RUNOFF TO LOCATIONS WITHIN THE NATURAL
- 4. A STABILIZED CONSTRUCTION ENTRANCE, SILT FENCES, AND TEMPORARY SOIL STABILIZATION ARE USED AS SEDIMENT AND EROSION CONTROL.
- 5. IMPERVIOUS AREAS HAVE BEEN REDUCED BY UTILIZING PERVIOUS AREAS FOR TREATMENT. 6. NO DESIGN MANUAL AND WAIVER PETITION REQUESTS HAVE BEEN MADE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

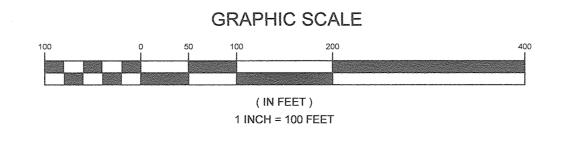
ENVIRONMENTAL CONCEPT PLAN

CEDAR LANE PARK BOCCE COURT

HOWARD COUNTY, MARYLAND



LOCATION MAP



LEGEND -----382 SOIL BOUNDARY EXISTING PRIVACY FENCE EXISTING SPLIT RAIL FENCE

EXISTING TREELINE

BENCHMARKS						
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION	1	
29IA	568,986.067	1,343,640.177	482.15	3.9' W OF END OF CURB ON CEDAR LN.,41.7' S FROM FIREHYDRANT		
29ID	571,234.373	1,343,193.107	473.87	5.8' NW OF END OF CURB ON CEDAR LN., 28.0' NE FROM © OF CEDAR LN.		

SITE ANALYSIS [DATA SHEET
ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	14.69 ACRES±
*LIMIT OF DISTURBANCE	0.8818 ACRES±
*GREEN OPEN AREA (LAWN)	0.3040 ACRES±
*IMPERVIOUS AREA	0.5778 ACRES±
PROPOSED SITE USES	COMMERCIAL
*WETLANDS	0.00 ACRES±
*WETLAND BUFFERS	0.00 ACRES±
*FLOODPLAINS	0.00 ACRES±
*FLOODPLAIN BUFFERS	0.00 ACRES±
*EXISTING FOREST	0.00 ACRES±
*SLOPES GREATER THAN 15% (2)	0.03%3ACRES±
*SLOPES GREATER THAN 25%	0.0000 ACRES±
*HIGHLY ERODIBLE SOILS	0.0000 ACRES±

SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE: NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.

2. HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

STORMWATER MANAGEMENT PRACTICES							
LOT#	ADDRESS	DRY-WELL M-5 (NUMBER)	NON- ROOFTOP DISCONNECT N-2 (Y/ N)	ROOFTOP DISCONNECT N-1 (Y/ N)	MICRO-BIO M-6 (NUMBER)		
N/A	5081 CEDAR LANE	0	Y	N	0		

	SHEET INDEX	
SHEET NO.	DESCRIPTION	1
1	COVER SHEET	1
2	ENVIRONMENTAL CONCEPT PLAN	
3	CONCEPTUAL STORMWATER MANAGEMENT PLAN, DRAINAGE AREA MAP, NOTES, AND DETAILS	7

OWNER/DEVELOPER

HOWARD COUNTY DEPARTMENT OF **RECREATION & PARKS** C/O PAUL WALSKY 7120 OAKLAND MILLS ROAD COLUMBIA, MARYLAND 21046 410-313-1695

COVER SHEET

CEDAR LANE PARK BOCCE COURT

5081 CEDAR LANE

5TH ELECTION DISTRICT

TAX MAP 29 GRID 17

ENGINEERING GROUP, LLC 11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104 Phone: 443.325.5076 Fax: 410.696.2022

PROJECT#: 18-003 Email: info@sillengineering.com Civil Engineering for Land Development SHEET#: <u>1</u> of <u>3</u> LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2019

PARCEL 67

HOWARD COUNTY, MARYLAND

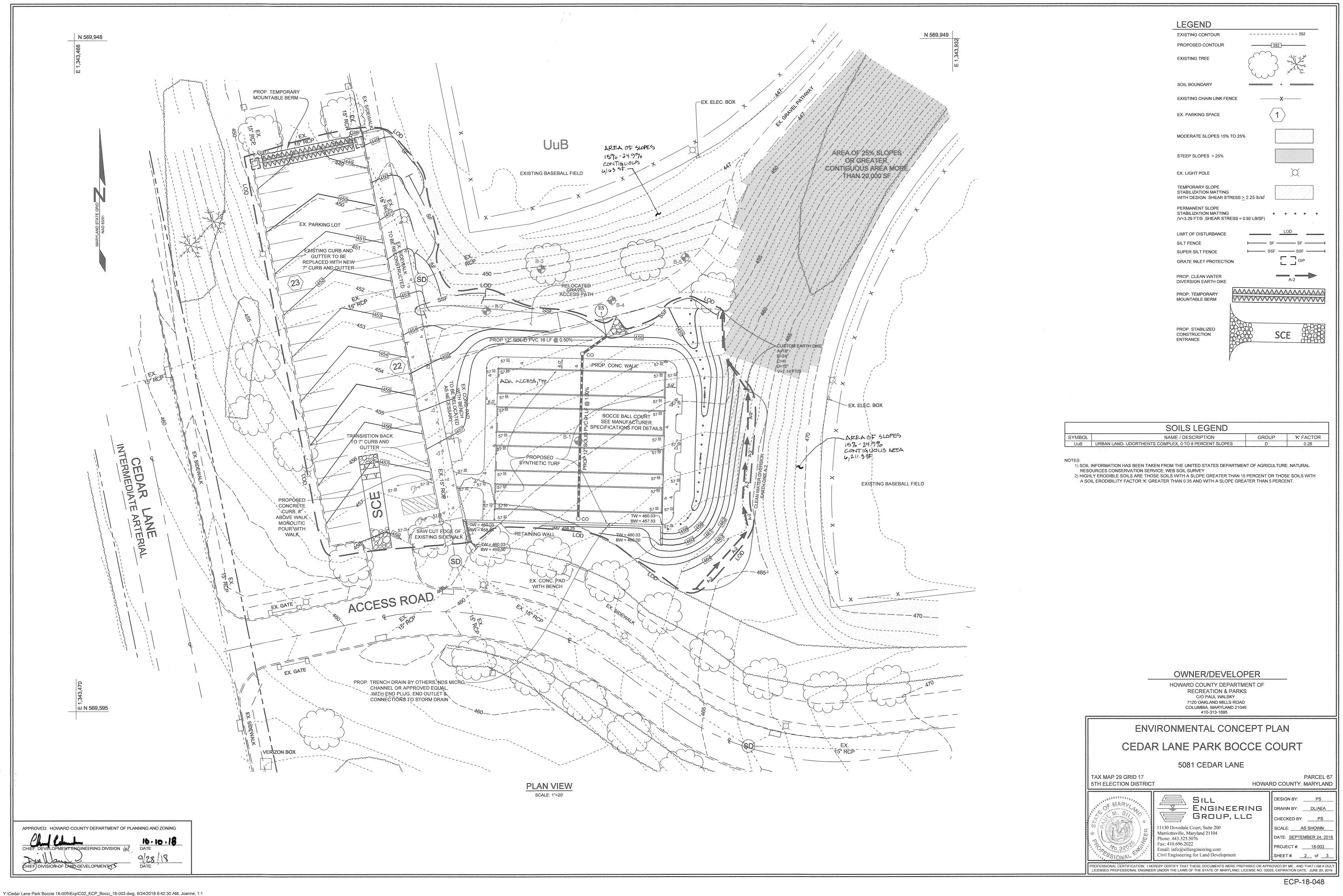
DESIGN BY: PS

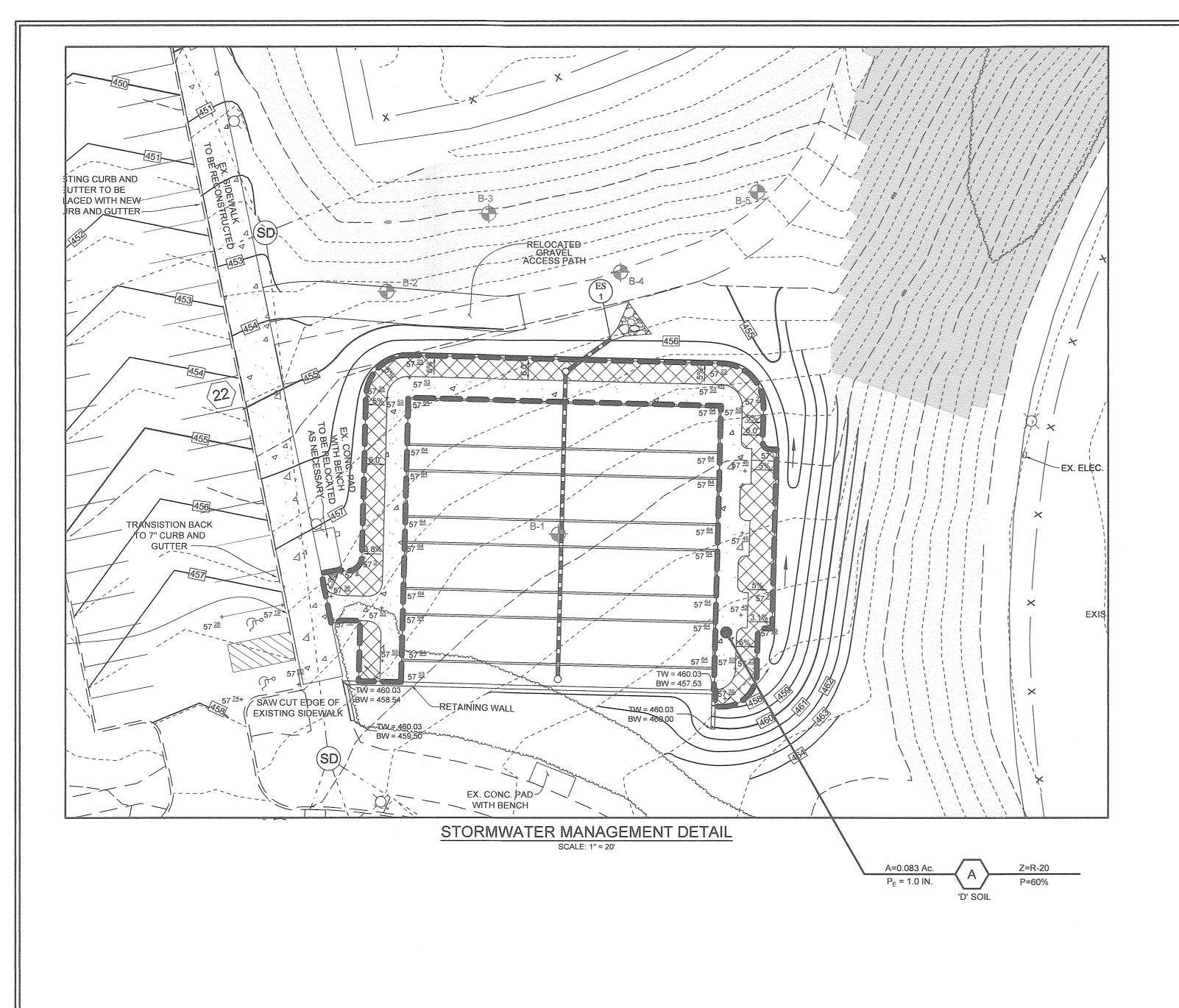
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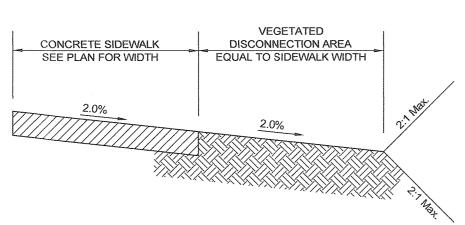
CHECKED BY: PS

SCALE: AS SHOWN

DATE: SEPTEMBER 24, 2018







TYPICAL NON-ROOFTOP DISCONNECT NOT TO SCALE

1. DISCONNECTION CONTRIBUTING LENGTH STARTS AT THE BEGINNING

OF THE SIDEWALK.

STORMWATER MANAGEMENT SUMMARY TABLE
 D.A.
 REQUIRED
 PROVIDED
 REQUIRED
 PROVIDED

 A
 1.0"
 1.0"
 253 CF
 891 CF

 TREATMENT FOR THE ENVIRONMENTAL SITE DESIGN VOLUMES (ESDv) WILL BE PROVIDED FOR AS FOLLOWS:

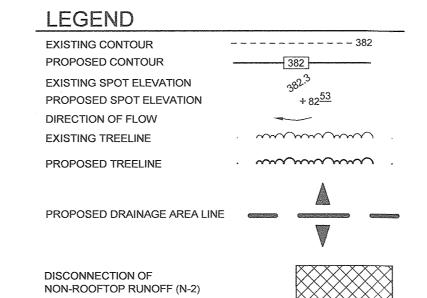
• DRAINAGE AREA A: DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

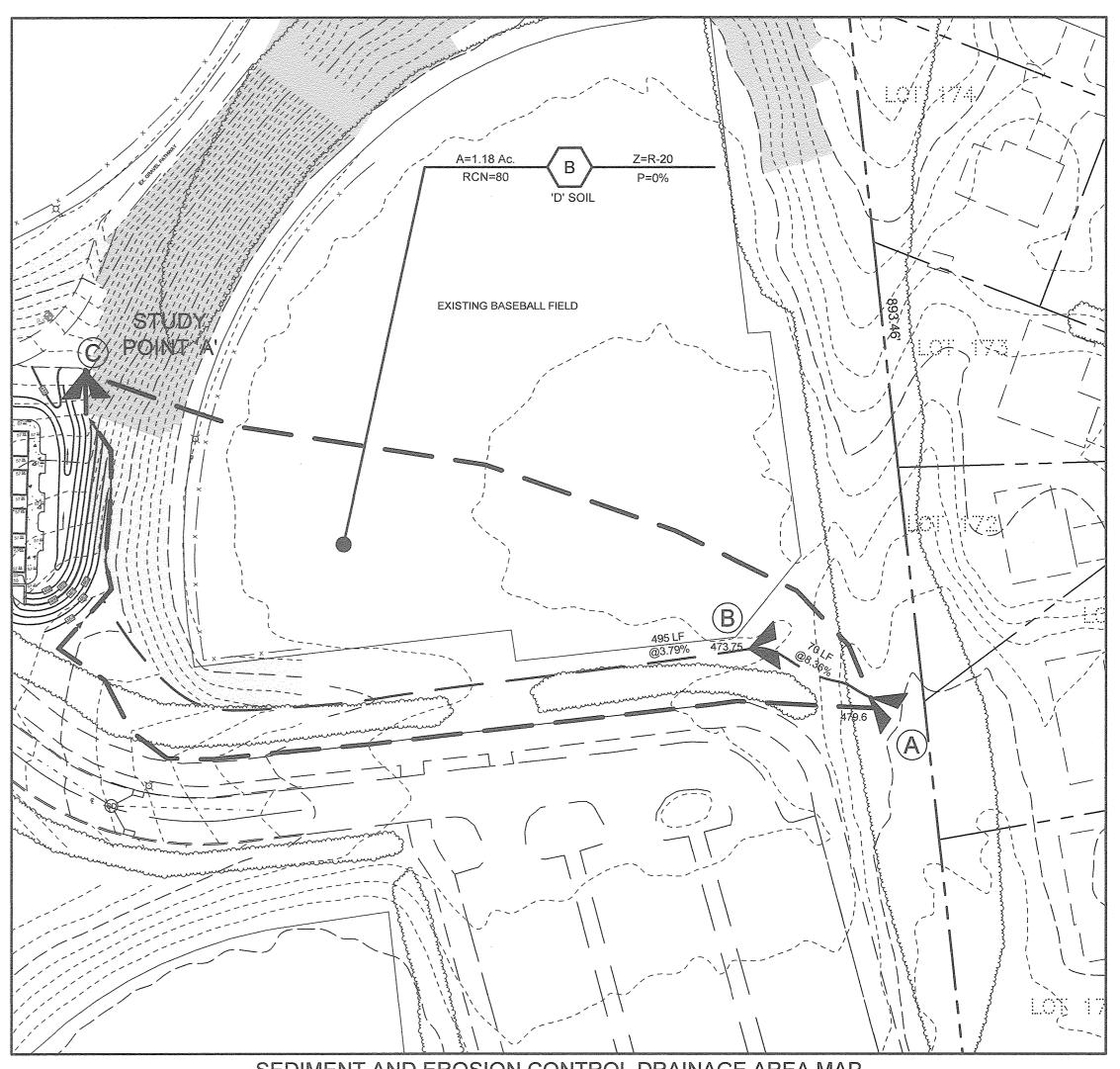
 ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICABLE HAS BEEN PROVIDED FOR THIS SITE. 2. OVERBANK FLOOD PROTECTION VOLUME (QP) AND EXTREME FLOOD VOLUME (QF) ARE NOT REQUIRED FOR THIS SITE.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1)

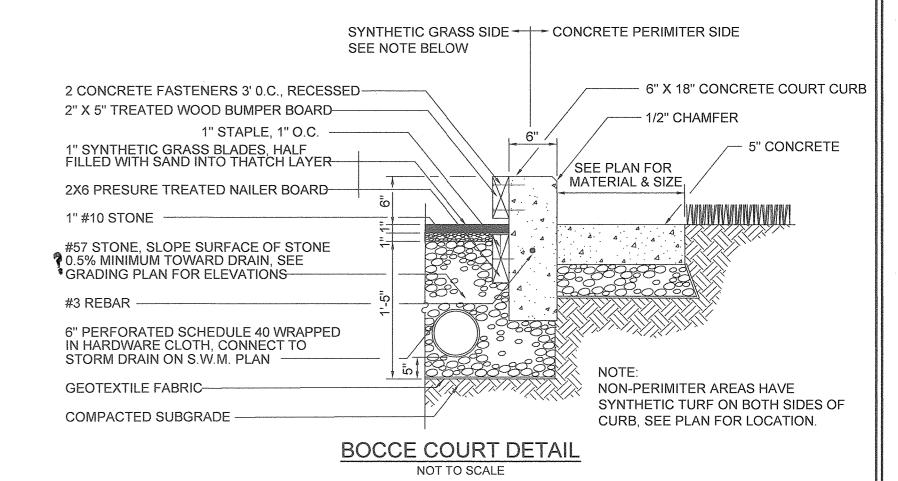
DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT



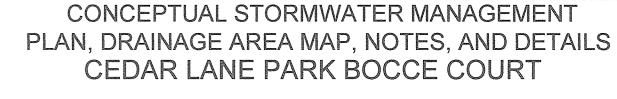


SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP



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5081 CEDAR LANE

5TH ELECTION DISTRICT

TAX MAP 29 GRID 17

SILL - ENGINEERING GROUP, LLC

11130 Dovedale Court, Suite 200 Marriottsville, Maryland 21104

SCALE: AS SHOWN Phone: 443.325.5076 DATE: SEPTEMBER 24, 2018 Fax: 410.696.2022 PROJECT#: 18-003 Email: info@sillengineering.com Civil Engineering for Land Development SHEET#: 3 of 3 PROFESSIONAL CERTIFICATION: 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. 32025, EXPIRATION DATE: JUNE 20, 2019

REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

PARCEL 67

HOWARD COUNTY, MARYLAND

DESIGN BY: PS

DRAWN BY: DL/AEA

CHECKED BY: PS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

OPMENT ENGINEERING DIVISION