



111 Maryland Avenue | Rockville, Maryland 20850-2364 | 240-314-5000
www.rockvillemd.gov

January 29, 2025

Mr. Andrew McGeorge
Hines
555 13th Street NW, Suite 400 W
Washington, District of Columbia 20004

SUBJECT: 1818 Chapman Avenue – Twinbrook Hines –Development Stormwater Management
Concept Approval; SMC2021-00005, STP2022-00436

Dear Mr. McGeorge:

The Development Stormwater Management (SWM) Concept (Concept) received on January 15, 2025, for the above referenced site is conditionally approved. Staff has determined that the Development SWM Concept, as described below, achieves the required level of on-site Environmental Site Design (ESD) to the Maximum Extent Practicable (MEP), $P_E = 1.42$ -inches, equivalent to 79 percent of the required ESD volume (ESD_v). This letter supersedes the ESD to MEP established by the Pre-Application SWM Concept letter dated July 1, 2022.

This site is 9.37 acres and is identified as the Halpine subdivision, Lots 2, 3, 4, 5, and 6, Block 4 and Lot 1, Block B situated at 1818 Chapman Avenue north of the intersection of Chapman Avenue and Thompson Avenue. The proposed development includes the construction of a mixed-use building with multi-family apartments, retail and office space, an underground parking garage, and the removal and replacement of a portion of the Washington Metropolitan Area Transit Authority's (WMATA) Kiss & Ride. The property is located in the Rock Creek Watershed and is zoned Mixed-Use Transit District (MXTD). The on-site soils are predominately Urban Land which is classified as hydrologic soil group (HSG) D.

According to the Rockville City Code (Code), Chapter 19, Section 19-2 Definitions, the Site qualifies as Redevelopment because it proposes construction on a property where existing imperviousness is greater than 40 percent of the site. The property is currently 63 percent impervious.

In accordance with the Code, Chapter 19, Section 19-45, SWM is required for all new and replacement impervious area within the disturbed area because the land disturbing activity involves less than 50 percent of the site. According to the submitted Concept, the total limit of disturbance is 3.42 acres which is 36 percent of the site, and the on-site impervious area subject to SWM is 3.02 acres.

Per the Code, Chapter 19, Section 19-46, SWM also must be provided for imperviousness in a portion of the adjacent Chapman Avenue Right-of-way (ROW). According to the submitted Concept, the total impervious area in the adjacent ROW subject to SWM is 0.41 acres.

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Your proposed Development SWM Concept, as shown on the attachment, is summarized as follows:

ON-SITE SUMMARY

Proposed new or replacement impervious areas are summarized as:

- A 437-unit multi-family residential building with an underground parking garage, retail, and office space.

Total on-site impervious area subject to SWM = 3.02 acres.

ESD Measures

- The Concept proposes to provide a minimum $P_E = 1.42$ -inches equivalent to 79 percent of the required ESD_v in the following on-site measures:
 - Five On-Site Micro-Bioretention Planter Box Facilities.
 - Green Roof.
- Summary of ESD:
 - Total ESD_v provided = 14,845 cubic feet (cf).
 - Total ESD_v required = 18,884 cf.
 - Percentage of ESD_v provided = $14,845 \text{ cf.} / 18,884 \text{ cf.} = 79$ percent.

Structural Measures and/or Alternative Measures – Monetary Contribution

- Alternative Measures – Monetary Contribution in-lieu of providing full ESD_v and Q_{p10} for the 3.02 acres of on-site impervious area.

ROW SUMMARY

Structural Measures and/or Alternative Measures – Monetary Contribution

- Alternative Measures – Monetary Contribution in-lieu of providing WQ_v , Cp_v , and Q_{p10} for the 0.41 acres of impervious area in the adjacent ROW of Chapman Avenue.

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CONDITIONS OF APPROVAL

Staff has determined that ESD to the MEP has been met.

The next step in the City of Rockville (City) SWM approval process is submission of a SWM Construction Plan for review and approval by the Department of Public Works (DPW) prior to permit issuance. In accordance with the Code, Chapter 19, Section 19-44, SWM must be provided by one of the following methods, which are listed in order of priority respectively: on-site ESD measures, on-site structural measures, and alternative measures which may include a monetary contribution.

This Development SWM Concept is conditionally approved subject to the following conditions, which must be addressed at the stages in the process as indicated below:

- 1) Submit a Stormwater Management Permit (SMP) Application, including the application and plan review fee, which is based on an initially submitted SWM construction estimate, in conjunction with detailed SWM plans (24"x36") and computations signed and sealed by a Professional Engineer (PE) licensed in the State of Maryland, except as otherwise noted, for review and approval by DPW.
- 2) The submitted material must:
 - a) Demonstrate compliance with this Concept including locations, types, and sizing of ESD measures.
 - b) Include computations and construction details for review and approval by DPW:
 - i) Design shall be in conformance with the latest version of the Montgomery County Department of Permitting Services Design Specifications for Micro-Bioretenention Planter Box facilities and Green Roof. Deviations from the specification must be approved by DPW.
 - ii) Computations and plans must show the ESD_v water surface elevation.
 - iii) Overflow structures, underdrains, and tee configurations within the Micro-Bioretenention Planter Box facilities must be shown on the SWM construction plans and approved by DPW.
 - iv) Where proximity of the Micro-Bioretenention Planter Box facilities to the building is less than 10-feet, a licensed professional engineer in the State of Maryland must determine if any special treatment, including impermeable liners, is required. Evidence of such investigation and recommendation must be provided with the final engineering.
 - v) The on-site underground structural measure shall be designed provide C_{pv} for the same drainage area as previously provided by the pond. Plans must include structural drawings for the underground SWM facility with appropriate details and notes, sealed by a qualified PE licensed in the State of Maryland. (PE seal for structural components cannot be on the same sheet as PE seal for SWM unless it is the same engineer sealing both aspects of the design)
 - vi) Include the design, construction specifications, plant media depth, plant media specifications, planting schedule with types, sizes, and quantities of planting material for the Micro-Bioretenention Planter Box facilities and Green Roof.
 - vii) SWM practices adjacent to pedestrian and parking uses shall meet Montgomery County Department of Permitting Services, Water Resources Technical Policy (MCDPS WRTP)-8 design guidelines for safe placement and fall prevention barriers.
 - viii) Architectural/plumbing plans for the building must clearly detail the routing of roof runoff through the building to the Micro-Bioretenention Planter Box facilities and must be provided for review to DPW.
 - ix) Include a landscape design that has been coordinated with the Forest Conservation Plan (FCP), where applicable. The plan should include a planting schedule with types, sizes, and quantities of planting material, planting details, and notes, signed and sealed by a Landscape Architect licensed in the State of Maryland. The plan should differentiate between what planting material will be approved, bonded, and permitted with the SWM plan and what will be part of the Forestry Permit. The Landscape plan must show all stormwater appurtenances including pipes, overflow structures, inflow protection, etc. to ensure there are no conflicts.

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- c) Identify paths for safe overland flow of the 100-year storm event with flow arrows.
- d) Demonstrate that all components of the SWM system drain by gravity. Pumping of stormwater will not be permitted.

Storage provided exceeding the amount require to treat the one year, 24-hour design storm shall not be credited towards the total water quality (ESD or structural) volume provided.

- 3) The Applicant shall make a monetary contribution to the City Stormwater Fund as an Alternative to providing C_{pv} and Q_{p10} for any new or replacement impervious area created by the construction of the development not treated on-site; and as an Alternative to providing C_{pv} , WQ_v , and Q_{p10} for the contiguous ROW. Calculations for the contribution shall be submitted with the SMP application utilizing the final engineering impervious area and the monetary contribution rate in effect at that time. The contribution must be paid prior to SMP permit issuance.

Monetary contribution is required for the following: Partial C_{pv} and full Q_{p10} . Impervious area used is based on the prorated area that is not treated by ESD practices. On-site ESD is provided for 79 percent of the required volume; therefore, 79 percent of the 3.02 acre (0.63 acre) must be provided by a SWM alternative (Monetary Contribution).

Partial C_{pv} is calculated at 100 percent of the C_{pv} rate applied to the impervious area not treated.

- a) Partial C_{pv} for 0.63 acres.
- b) Full On-site Q_{p10} for 3.02 acres.
- c) Full Contiguous ROW C_{pv} , WQ_v , and Q_{p10} for 0.41 acres.
- 4) The SWM facilities on-site shall be privately maintained. Submit to DPW staff a SWM Easement, Inspection, and Maintenance Agreement for the proposed SWM measures. The SWM Agreement is subject to review and approval by DPW and the City Attorney's Office and is to be executed by the property owner and other parties of interest. Access to the SWM facilities will be determined in conjunction with final engineering and must be included in the SWM Agreement. The SWM Agreement must be recorded in the Montgomery County Land Records prior to SMP permit issuance. Plans must delineate and label SWM easements.
- 5) The existing pond must be replaced with on-site underground structural measure. Additionally, the underground structural measure must provide the same treatment as previously provided by the pond. Concurrence from WMATA must be provided for the removal of the existing pond and the required treatment prior to the issuance of a Stormwater SMP.
- 6) Submit on-site Storm Drain plans (24"x36") and computations signed and sealed by a PE licensed in the State of Maryland, except as otherwise noted, for review by DPW.
- 7) Post financial security based on the final approved SWM construction cost estimate in a format acceptable to the City Attorney, either by letter of credit or performance bond. Approval, which is coordinated through DPW staff, is required prior to SMP permit issuance. Obtain approval of an FCP from the City Forester prior to DPW issuance of the SMP permit.
- 8) Required approvals and permits for drainage connections to existing storm drains in WMATA easements and ROWs must be obtained prior to the issuance of a SMP. Additionally, DPW Permits will not be issued prior to issuance of WMATA's Real Estate Permit.

This SWM approval does not supersede or negate other required project approvals. The Concept approval is contingent upon compliance of all other City and other governmental agency requirements including, but not limited to, City Forestry, Traffic and Transportation, and Planning and Development Services.

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Any significant changes to the proposed development may result in the requirement to submit a revised Development SWM Concept with review fee for approval by DPW.

If you have any questions, please contact Senior Civil Engineer Yi Kuo via email at ykuo@rockvillemd.gov or via telephone at 240-314-8520.

Sincerely,



John Scabis, P.E.
Chief of Engineering

JKS/YK/ktt

Attachments: 1818 Chapman Avenue – Twinbrook Commons – Development SWM Concept Plan, dated January 15, 2025.

cc: Jim Lapping, P.E., Engineering Supervisor
John Foreman, Planning and Development Services Manager
Sean Murphy, P.E, Principal Engineer
Shaun Ryan, Planning and Development Supervisor
Nelson Ortiz, Principal Planner
NB Ventures I, L.L.C.
Heather Dlhopsky, Wire Gill LLP
Laurent Mounaud, VIKA Maryland
WMATA
Permit plan, SMC2021-00005, STP2022-00436
Day file

STORMWATER MANAGEMENT CONCEPT

SMC#: SMC2021-00005

TWINBROOK HINES

4TH ELECTION DISTRICT ROCKVILLE

MONTGOMERY COUNTY, MARYLAND

SHEET INDEX

CSWM	1 OF 5	CONCEPT STORMWATER MANAGEMENT COVER SHEET
CSWM	2 OF 5	CONCEPT STORMWATER MANAGEMENT DRAINAGE AREA MAP
CSWM	3 OF 5	CONCEPT STORMWATER MANAGEMENT PLAN
CSWM	4 OF 5	CONCEPT STORMWATER MANAGEMENT DETAILS
CSWM	5 OF 5	CONCEPT STORMWATER MANAGEMENT DETAILED SECTIONS

STORMWATER MANAGEMENT CONCEPT GENERAL NOTES

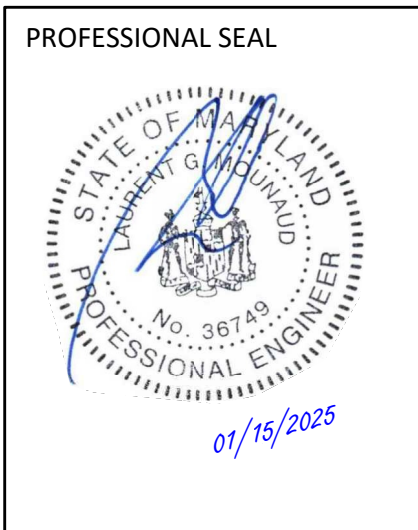
- ALL STORM DRAIN PIPES PROPOSED ARE EITHER REINFORCED CONCRETE PIPE (RCP), HIGH PERFORMANCE POLYPROPYLENE (HP) OR POLYVINYL CHLORIDE (PVC).
- STORM DRAIN PIPE SIZES SHOWN ARE ESTIMATED AND ARE SUBJECT TO CHANGE DURING FINAL ENGINEERING DESIGN.
- QUANTITY AND LOCATION OF ENVIRONMENTALLY SENSITIVE DESIGN (ESD) MEASURES ARE SUBJECT TO CHANGE DURING FINAL ENGINEERING DESIGN.
- ALL WATER AND SEWER LINES SHOWN ARE APPROXIMATE AND ARE SUBJECT TO CHANGE UPON FINAL ENGINEERING DESIGN.
- ALL UTILITY LAYOUTS SHOWN ON THIS CONCEPT PLAN ARE SUBJECT TO ADJUSTMENT IN LOCATION, SIZE AND CONFIGURATION DURING FINAL ENGINEERING TO ACCOMMODATE LOCATIONS OF TREES, DRY UTILITIES, STREET LIGHTS AND OTHER CONFLICTING FEATURES. LAYOUTS SHOWN HEREON ARE CONCEPTUAL AND NOT INTENDED TO REFLECT FINAL LOCATION OF THESE UTILITIES.


SWM CONCEPT SUMMARY TABLE							
General Property Information							
SMC# 2021-00005							
Type of Concept: <i>SWM Concept</i>							
Development Review Process/Case No.: <i>STP2022-00436</i>							
Property Address: <i>1818 Chapman Ave, Rockville MD 20852</i>							
Property Legal Description: <i>Twinbrook Station Lot 1, Block B Plat No. 23781 and Lot 2,3,4,5,6 Block 4</i>							
Property Size (ac./sq.ft.): <i>9.37 Ac /408,194 Sqft</i>							
Total Concept Area (ac./sq.ft.): <i>3.42 acres/ 149,109 square feet</i> (On Site after ROW Dedication)							
Watershed: <i>Rock Creek Watershed</i>							
100 YR Floodplain: <i>n/a</i>							
Ex. % Impervious/Redevelopment or New Development: <i>40% Redevelopment</i>							
SWM Summary							
Total On-Site Impervious Area subject to SWM: <i>3.02 acres (131,594 sq.ft.)</i>							
Target ESDv/Provided ESDv: <i>18,884 cu.ft./ 14,845 cu.ft.</i>							
ESD Measures: <i>5 Micro Bioretention Facilities and Green Roof</i>							
Structural Storage Required/Provided: <i>5,716 cu.ft./ 0 cu.ft.</i>							
Structural Measures: <i>Monetary Contribution</i>							
Qp10 (10-Year Quantity Control) Measures: <i>Monetary Contribution</i>							
Contiguous Right-of-Way Impervious Area subject to SWM: <i>0.41 acres (0.13 acres in Thompson and 0.28 acres in Chapman)</i>							
Contiguous Right-of-Way Cpv (Channel Protection Volume) & WQv (Water Quality Volume) Measures: <i>Monetary Contribution</i>							
Contiguous Right-of-Way Qp10 (10-Year Quantity Control) Measures: <i>Monetary Contribution</i>							

	Area	Impervious	Type of	PE (inch)		ESDv (cuft)	
	a.c.	a.c.	Measure	Req	Provided	Req	Provided
MBF #1	0.16	0.16	Bio	1.80	2.52	1,010	1,417
MBF #2	0.35	0.35	Bio	1.80	2.53	2,188	3,080
MBF #3	0.35	0.35	Bio	1.80	2.16	2,150	2,576
MBF #4 + GR	0.45	0.45	Bio + GR	1.80	2.40	2,801	3,741
MBF #5	0.45	0.45	Bio	1.80	2.42	2,793	3,752
GR	0.05	0.05	GR	1.80	1.69	298	280
Untreated Area	1.61	1.21	None	1.80	0.00	7,644	-
Total	3.42	3.02		1.80	1.42	18,884	14,845

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. 36749
Expiration Date: JANUARY 21, 2027

LAURENT G. MOUNAUD
NAME





VIKA MARYLAND, LLC
20251 Century Blvd., Suite 400
Germantown, MD 20874
301.916.4100 | vika.com


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Our Site Set on the Future.

APPROVAL OF REVISIONS AFTER INTIAL PLAN APPROVAL					
NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

BEFORE BEGINNING CONSTRUCTION CONTACT "MISS UTILITY" AT WWW.MISSUTILITY.NET OR 1-800-257-7777 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY



DESIGNED _____
DRAFTED _____
CHECKED _____

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE. ROCKVILLE, MARYLAND

COVER SHEET

1818 CHAPMAN
LOT 2,3,4,5 & 6, P1 BLOCK 4 & B
SUBDIVISION 0201

ELECTION DISTRICT NO. 4 CITY OF ROCKVILLE, MARYLAND

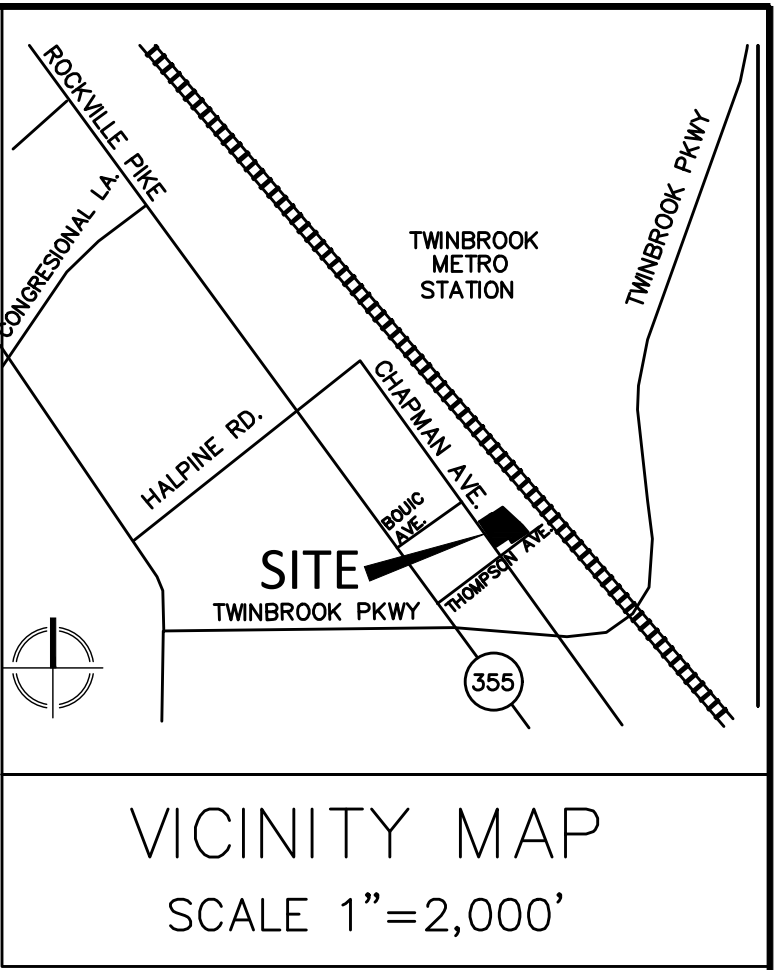
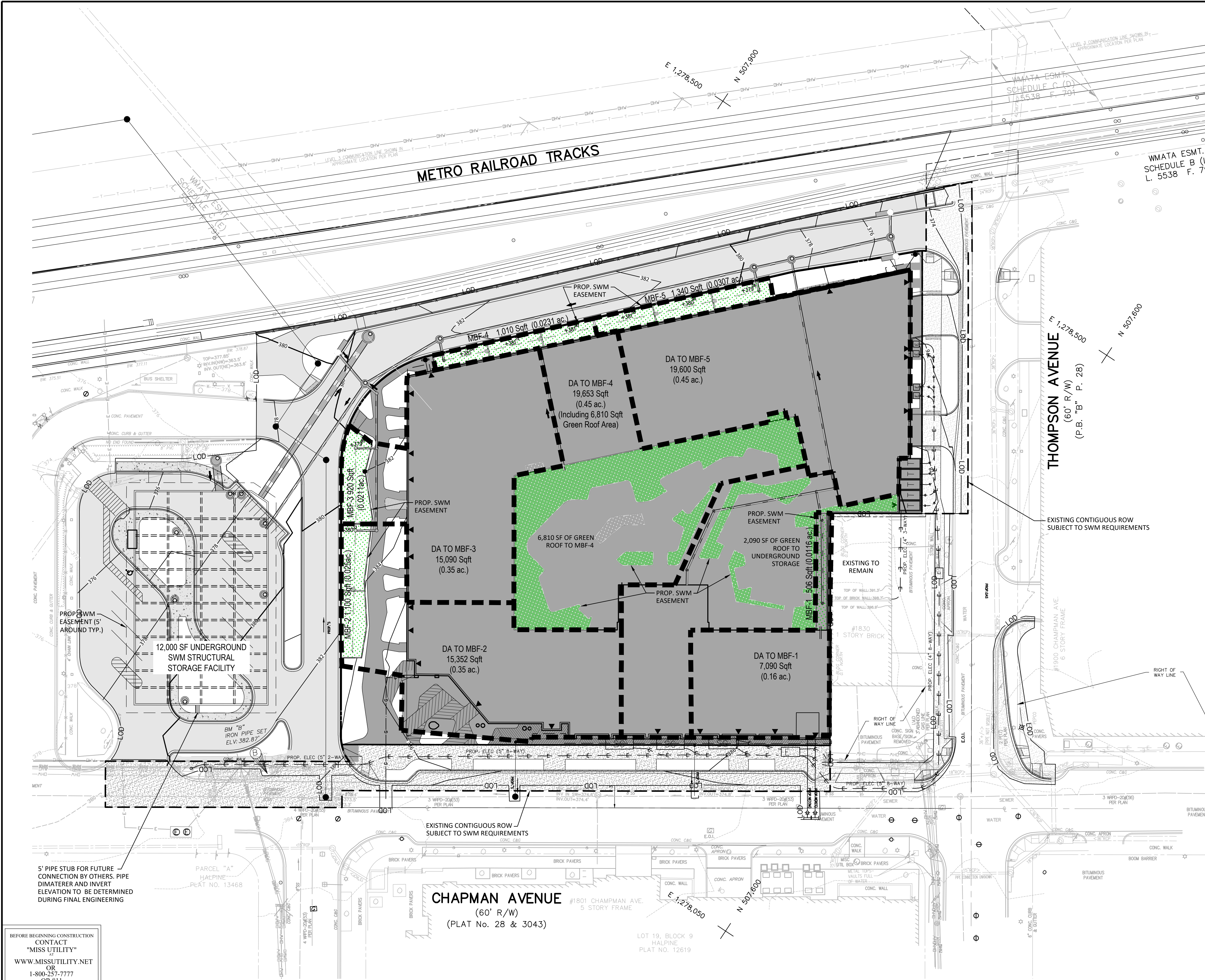
DATE SUBMITTED:

VIKA JOB NO.
VM50024J

SCALE

SHEET NO. CSWM-1
OF 5

FILE #



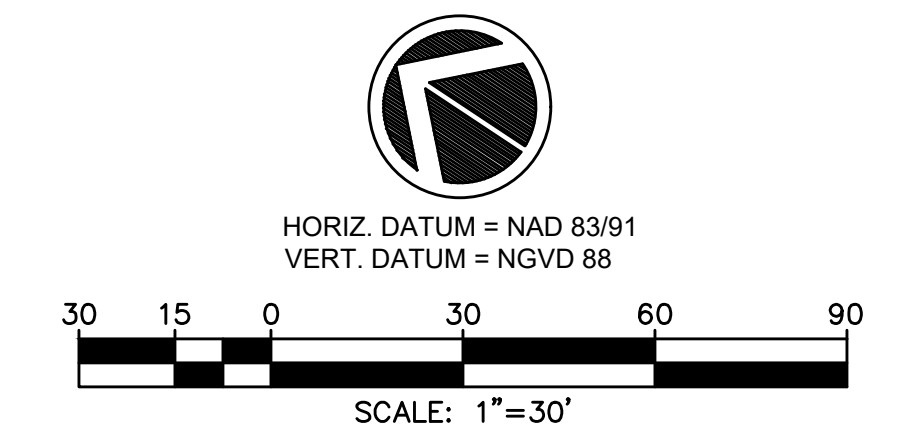
LEGEND:

- GREEN ROOF
- MICRO-BIORETENTION PLANTER
- WATER LINE
- SEWER LINE
- UNDERGROUND STORMWATER STRUCTURE
- DRAINAGE DIVIDE
- PROPOSED ONSITE IMPERVIOUS
- PROPOSED WMATA SITE IMPERVIOUS
- IMPERVIOUS AREA WITHIN CONTIGUOUS ROW

HYDROLOGIC SOIL GROUP NOTE:
ENTIRE SITE IS COMPRISED OF URBAN LAND (MAP UNIT 400)
HYDROLOGIC SOIL GROUP D.

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. 36749
Expiration Date: JANUARY 21, 2027

LAURENT G. MOUNAUD
NAME



Vika Maryland, LLC
20251 Century Blvd., Suite 400
Germantown, MD 20874
301.916.4100 | vika.com
Our Site Set on the Future.

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-257-7777
OR 811
AT LEAST 48 HOURS
PRIOR TO EXCAVATION

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY

	DESIGNED _____	DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DRAINAGE AREA MAP	1818 CHAPMAN LOT 2,3,4,5 & 6, P1 BLOCK 4 & B SUBDIVISION 0201 ELECTION DISTRICT NO. 4CITY OF ROCKVILLE, MARYLAND	DATE SUBMITTED:	SCALE	SHEET	FILE #
	DRAFTED _____				Vika JOB NO. VM50024J	NO. CSWM-2	OF 5	
CHECKED _____								



