GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. BCIV2300110 Date 11/16/23

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for trade work, e.g. Electrical or Plumbing

Structural Review - Glenn Kechejian - 11-16-2023
DDOT Review - Shawntanishia Zackery - 11-16-2023
DOEE SE-SW Review - Saba Gharavi - 11-16-2023
HPRB Review - Timothy Dennee - 11-16-2023
DC Water Review - Vahid Bilvardi - 11-16-2023

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

This is to certify that the engineering features of all stormwater best management practices (BMPs), stormwater infrastructure, and land covers (collectively The "Facility") have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of stormwater pollutants. I further certify that the Facility has been designed in accordance with the specification required under Chapter 5 of Title 21 of the District of Columbia Municipal Regulations. It is also stated that the undersigned has furnished the applicant with a set of instructions for the maintenance and operation of the site's Facility.

Affix Seal

KYLE U. OLIVER, PE
Name and Title (please type)

4910 MASSACHUSETTS AVE
Address
SUITE 16

WASHINGTON, DC 20016

Date__________ Phone No. (202) 244-4140

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Within 21 days after completion of construction of all stormwater best management practices (BMPs), stormwater infrastructure, and land covers (collectively the "Facility"), please send this page to the Watershed Protection Division of the Department of Energy and Environment.

1. **Facility Information:**

Source Name: ______________________

Source Location: Street: ______________________

City: ______________________

DCRA Permit No.: ______________________

Date Issued: ______________________

2. **As-Built Certification**

I hereby certify that all stormwater best management practices (BMPs), stormwater infrastructure, and land covers have been built substantially in accordance with the approved plans and specifications and that any deviations noted below will not prevent the system from functioning in compliance with the requirements Chapter 5 of Title 21 of the District of Columbia Municipal Regulations when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

______________ ______________________
Signature of Engineer   Name (Please Type) D.C. Reg. No.

Affix Seal

____
Company Name

____
Company Address

____

Date__________ Phone No.__________

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

____
____
____
____

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

The undersigned agrees to maintain compliance with the performance requirements and other provisions of Chapter 5 of Title 21 of the District of Columbia Municipal Regulations (DCMR). This includes maintaining and operating stormwater best management practices (BMPs), stormwater infrastructure, and land covers as specified in the Stormwater Management Plan approved by the District Department of Energy and Environment (DOEE).

Responsibility for maintenance and operation may be transferred to another entity upon written notice to the Watershed Protection Division of DOEE from the undersigned and the entity assuming responsibility. This notice must certify that the transfer of responsibility for maintenance and operation is in compliance with 21 DCMR Chapter 5.

____
Signature of the person responsible for maintenance
(It may be the applicant)

____
Name and Title (please type)

____
Address

____

Date______________ Phone No.______________

MEP Memo for Public Right of Way (PROW) Area

This memo shall provide a detailed explanation of each opportunity for installation of retention BMPs in the alley that was considered and rejected, and the reason for each rejection. The applicant shall address each retention practice specified in this guidance manual in BMP groups 1 through 13, specifically those noted below.

Project Address	5901 Utah Ave NW
Drainage Area #	756-2
Description	Major land disturbing activity
SWM Proposed	Permeable Pavement System and Tree planting
SWM Retention Volume (SWRv) Required	332 cf (2,484 gallons)
SWM Retention Volume (SWRv) Provided	25 cf (187 gallons)

BMP Group	PRACTICE	JUSTIFICATION
1	Green Roofs	Not applicable, no buildings proposed. Proposed ROW improvements are limited to sidewalk and plantings, and green roofs are not practical.
2	Rainwater Harvesting	Not applicable, no buildings. Proposed ROW improvements are limited to sidewalk, curb cut/driveway. Due to the presence of existing and proposed utilities (electric, sewer and water), electric vaults and bike racks within the sidewalk area, underground storage is not feasible.
3	Impermeable Surface Disconnection	Not applicable - existing compact cover does not meet initial site design criteria.
4	Permeable Pavement Systems	Applicable - Some permeable pavement is proposed for the alley. This will be an extension of the previously installed permeable paver alley that stopped short of the property.
5	Bioretention	Not applicable - Due to the general lack of site area, the implementation of bioretention in the public right of way is not feasible. Also, the predominant soil type in the area is Brandywine Urban Land, and infiltration is not feasible in the public right of way.
7	Infiltration	Not applicable - Due to the location of the vehicular access area, and Brandywine Urban Land soil in the public right of way, infiltration is not feasible.
8	Open Channel Systems	Not applicable - Per the development plans for this site, as well as development in the immediate surroundings of the site, vehicular traffic is expected that will be serviced by the sidewalk. An open channel system would be unsafe and is not feasible based on the proposed finished conditions of the site.
13	Tree Planting / Tree Preservation	Applicable - One small tree is proposed to be planted in the ROW. A large tree cannot be planted due to the presence of overhead wires.

Stormwater Management Plan Compliance Data

Site Address	5901 Utah Avenue NW	Plan number	7718
Stormwater Management Plan?	Yes	Green Area Ratio?	No - GAR does not apply to this property
Soil Erosion and Sediment Control?	Yes	Floodplain Review?	No
Type of Activity	Major Land Disturbing	AWDZ?	Non-AWDZ
Is the entire site in the CSS?	No		

	Total Area (sf)	Site Area	PROW
Natural	0	0	0
Compacted	45,511	44,098	1,413
Impervious	27,273	24,114	3,159
BMP	133,130	132,731	399
Total	205,914	200,943	4,971

Curve Numbers

☐ Additional Detention Provided

Pre-development	70	2-year storm adjusted CN	40
Pre-project	74	15-year storm adjusted CN	40
		100-year storm adjusted CN	40

Requirements Summary (total is the sum of PROW and Parcel)

	PROW (ft^3)	Parcel (ft^3)	Total (ft^3)	Total (Gallons)
SWRv	332	3,620	3,952	29,559
WQTv	0	0	0	0
On-site retention achieved	25	7,076	7,101	53,116
On-site treatment achieved	34	10,997	11,031	82,509
% of SWRv met on-site	8%	195%	179.7%	179.7%
SRC eligibility				56,071
Offv				0

Compliance data last updated: 03-31-2023 04:40 PM
Plan 7718 Page 1 of 3

Site Drainage Area Compliance Data

Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area	SWRv (cubic feet)	WQTv (cubic feet)	Volume retained (cubic feet)	Volume treated (cubic feet)	2-year storm adjusted Curve Number	15-year storm adjusted Curve Number	100-year storm adjusted Curve Number	SDA Minimum Compliance
7718-1	☐	200,943	0	44,098	24,114	132,731	24,114	3,620	0	11,116	10,997	40	40	40	Yes

Site BMP Compliance Data

BMP ID number	Type	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
7718-1-1	Traditional bioretention - Standard	38,701		8,401	27,514	2,786	24,114	0	4,375	7,383	60% of storage volume	4,375	0	
7718-1-2	Permeable pavers - Standard	130,013				130,013		0	17,498	56,803	5 cubic feet per 100 square feet	6,501	10,997	
7718-1-3	Tree preservation - Heritage Trees	0						0	0		40 cubic feet per tree	240	0	

Compliance data last updated: 03-31-2023 04:40 PM
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PROW Drainage Area Compliance Data

Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area	SWRv (cubic feet)	WQTv (cubic feet)	Volume retained (cubic feet)	Volume treated (cubic feet)
7718-2	☒	4,971	0	1,413	3,159	399	1,286	332	0	25	34

PROW BMP Compliance Data

BMP ID number	Type	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
7718-2-1	Permeable pavers - Standard	399				399		0	54	80	5 cubic feet per 100 square feet	20	34	
7718-2-2	Tree planting - Average spread < 40 feet	0						0	0		5 cubic feet per tree	5	0	

Compliance data last updated: 03-31-2023 04:40 PM
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ANY PROPOSED DEVIATION FROM THE STORMWATER MANAGEMENT DETAILS OR SPECIFICATIONS SHOWN ON THESE PLANS WILL REQUIRE SUBMISSION TO DOEE AS A FORMAL PLAN REVISION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL SUBMITTALS RELATED TO THE STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED TO THE OWNER, ARCHITECT, AND CIVIL ENGINEER FOR REVIEW AND COMPLIANCE VERIFICATION.

VIKA CAPITOL
ENGINEERS ★ PLANNERS ★ LANDSCAPE ARCHITECTS ★ SURVEYORS ★ GEOMATICS
PROJECT COORDINATOR: BRIAN RUHL
ruhl@vikacapitol.com
VIKA CAPITOL, LLC ★ 4910 MASSACHUSETTS AVENUE, NW SUITE 16
WASHINGTON, DC 20016 ★ PHONE: 202.244.4140
WWW.VIKACAPITOL.COM

MARET SCHOOL
PROPOSED ATHLETIC FIELDS
SQUARE 2319, LOT 832
5901 UTAH AVE NW
WASHINGTON, D.C. 20015

STORMWATER MANAGEMENT NOTES AND DETAILS

VIKA CAPITOL REVISIONS

#	DATE	DESCRIPTION

**NOTE
THE INFORMATION, DESIGN AND CONTENT OF THE DRAWINGS OR DOCUMENTS ATTACHED HERETO ARE PROPRIETARY TO VIKA CAPITOL, LLC AND CONSTITUTE ITS PROPRIETARY INTELLECTUAL PROPERTY. THE ATTACHED DRAWINGS AND/OR DOCUMENTS MUST NOT BE FORWARDED, SHARED, COPIED, DIGITALLY CONVERTED, MODIFIED, OR USED FOR ANY PURPOSE, IN ANY FORMAT, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM VIKA CAPITOL, LLC. VIOLATIONS MAY RESULT IN PROSECUTION. ONLY APPROVED, SIGNED AND SEALED PLANS OR DRAWINGS MAY BE UTILIZED FOR CONSTRUCTION PURPOSES.

DISTRICT OF COLUMBIA
KYLE U. OLIVER
PE900770
3/17/2023
CIVIL
PROFESSIONAL ENGINEER

DATE: 23-FEB-2023
DES. KUO DWN. BJR
SCALE: AS SHOWN
PROJECT/FILE NO. VC0626D
SHEET NO. CIV1130

Board of Zoning Adjustment
District of Columbia
CASE NO.21100
EXHIBIT NO.26E