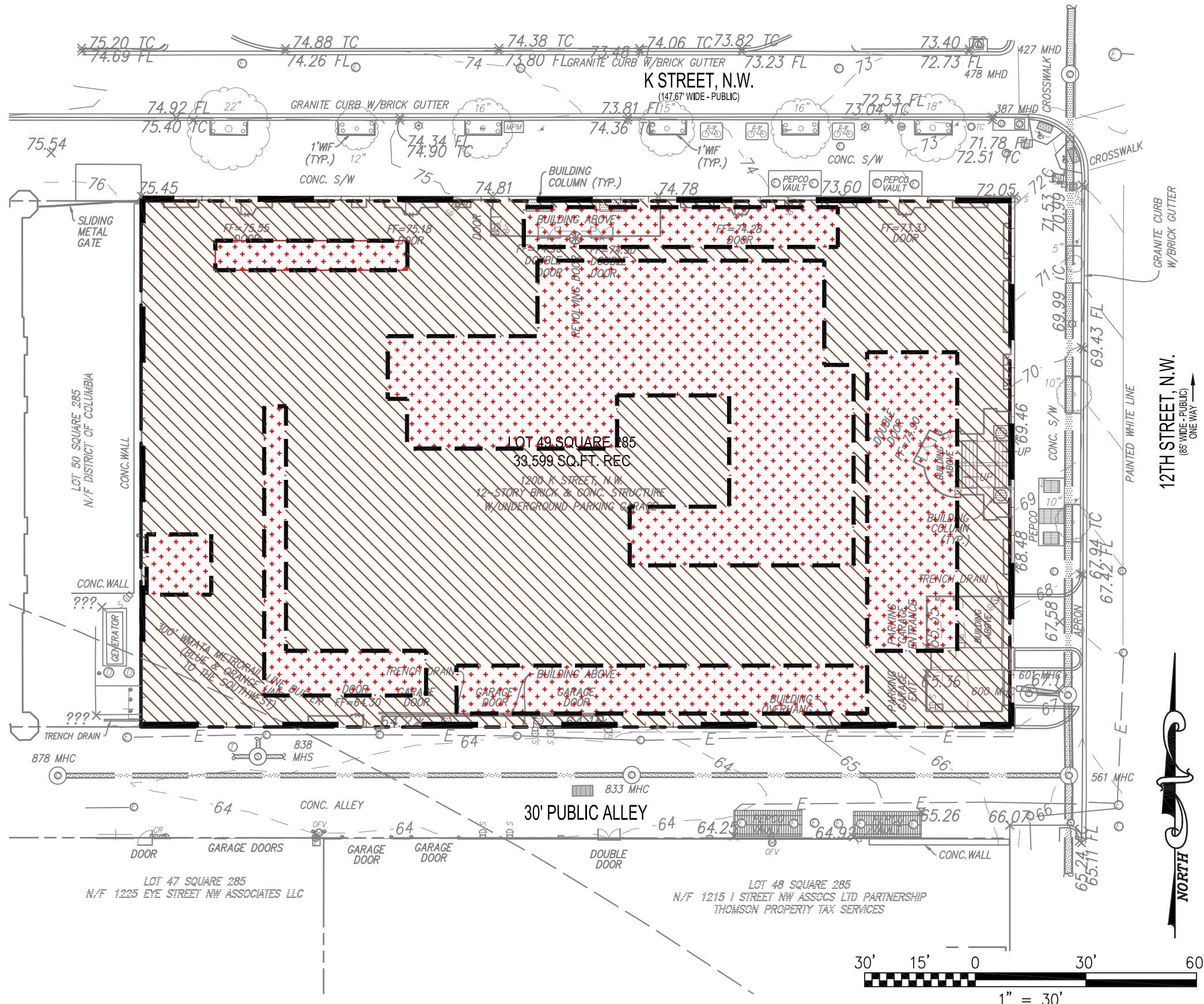


CIVIL STORMWATER MANAGEMENT PLAN



STORMWATER MANAGEMENT NARRATIVE:

EXISTING CONDITIONS
THE PRIVATE SPACE PROPERTY CONSISTS OF AN EXISTING BUILDING.

PROPOSED CONDITIONS
THE PRIVATE SPACE PROJECT PROPOSES THE RENOVATION OF THE EXISTING BUILDING. THE PUBLIC SPACE PROJECT PROPOSES VERY LIMITED SITE IMPROVEMENTS. STORMWATER MANAGEMENT FOR THE PRIVATE SPACE PROJECT WILL BE FULL-FILLED BY A GREEN ROOF. THESE BMPs WILL TREAT THE STORMWATER RUNOFF FROM THE RENOVATED BUILDING. THE BMPs WILL THEN TIE INTO AN EXISTING PRIVATE SEPERATED SEWER LATERALS WHICH CONNECTS TO THE EXISTING PUBLIC COMBINED MAINS IN 12TH STREET NW.

STORMWATER RETENTION AND DETENTION REQUIREMENTS:
STORMWATER RETENTION AND DETENTION FOR THIS SITE WILL MEET THE DISTRICT OF ENERGY AND ENVIRONMENT REQUIREMENTS FOR MAJOR SUBSTANTIAL IMPROVEMENT ACTIVITY. THEREFORE THE FIRST 0.8" OF RAINFALL SHALL BE RETAINED ON-SITE FOR THE PROPOSED IMPROVEMENTS. 2-YEAR POST-DEVELOPMENT DETENTION AND 15-YEAR POST-DEVELOPMENT DETENTION ARE NOT REQUIRED FOR MAJOR SUBSTANTIAL IMPROVEMENT ACTIVITY.

PRIVATE SPACE LEGEND:

- TOTAL AREA OF DISTURBANCE: 33,599 SQ. FT.
- IMPERVIOUS COVER (21,246 SQ. FT.)
- GREEN ROOF BMP COVER (12,353 SQ. FT.)

ZONING COMMISSION
District of Columbia
CASE NO.89-07A
EXHIBIT NO.3H15

MARCH 2021

STUDIOS Brookfield architecture

CIVIL

STORMWATER MANAGEMENT CALCULATIONS AND DETAILS

Stormwater Management Plan Compliance Data															
Site Address	1200 K Street NW		Plan number	6961											
Stormwater Management Plan?	Yes		Green Area Ratio?	TBD											
Soil Erosion and Sediment Control?	Yes		Floodplain Review?												
Type of Activity	Major Substantial Improvement		AWDZ?	Non-AWDZ											
Is the entire site in the CSZ?	Yes														
Total Area (sf)			Site Area	PROW	Curve Numbers										
Natural	0		0	<input type="checkbox"/> Additional Detention Provided											
Compacted	0		0	Pre-development				70 2-year storm adjusted CN							
Impervious	21,246		21,246	Pre-project				15-year storm adjusted CN							
BMP	12,353		12,353	100-year storm adjusted CN											
Total	33,599		33,599												
Requirements Summary (total is the sum of PROW and Parcel)															
SWRv			PROW (ft ²)	Parcel (ft ²)	Total (ft ²)	Total (Gallons)									
WQTV			2,128	2,128	15,917										
On-site retention achieved			0	0	0										
On-site treatment achieved			1,663	1,663	12,436										
% of SWRv met on-site			0	0	0										
SRC eligibility			78%	78.13%	78.13%										
Ofv					3,481										
Compliance data last updated: 03-04-2021 01:33 PM Plan 6961 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 (square feet)	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
6961-1	<input type="checkbox"/>	33,599			21,246	12,353		2,128	1,663						N/A
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 (square feet)	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	
6961-1-1	Extensive green roof	6,375				6,375		858	2,136	100%	100% of storage volume	858			
6961-1-2	Intensive green roof	287				287		39	48	100%	100% of storage volume	39			
6961-1-3	Intensive green roof	417				417		56	70	100%	100% of storage volume	56			
Compliance data last updated: 03-04-2021 01:33 PM Plan 6961 Page 2 of 3															
PROW Drainage Area Compliance Data															
No records were retrieved.															
PROW BMP Compliance Data															
No records were retrieved.															
Compliance data last updated: 03-04-2021 01:33 PM Plan 6961 Page 3 of 3															

