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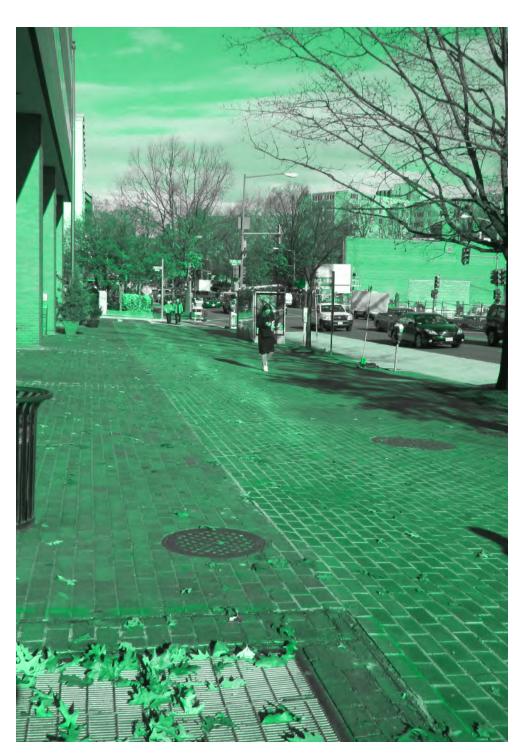


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CONTEXT



THE PROJECT

INTRODUCTION

This study was funded by a 2014 Transportation/Land-Use Connections Technical Assistance Grant provided by the National Capital Region Transportation Planning Board of the Metropolitan Washington Council of Governments. The MWCOG funded and reviewed the development of the study. The District of Columbia Office of Planning (DCOP) led this study and retained Rhodeside & Harwell, planners and landscape architects, to collaborate with DCOP staff and community stakeholders on this study. A. Morton Thomas & Associates provided technical assistance with the utility survey and engineering concepts.

This report builds upon the 2011 report, *The Van-Ness-UDC: Commercial Corridor Enhancement Study*, which developed conceptual-level recommendations for improving the pedestrian experience along Connecticut Avenue.

The pavement removal strategy for Connecticut Avenue from Van Ness Street to Albemarle Street aims to improve the pedestrian experience by expanding the tree pit zone and identifying opportunities to include green infrastructure where possible. The Van Ness streetscape must serve a wide variety of needs and programs. The confluence of a major arterial road, the Metro line, underground utilities and variety of buildings place many demands on the sidewalk/pedestrian area. This study seeks to describe strategies for how all of these needs might be balanced in a functional, attractive sidewalk/pedestrian area.

This report has been developed concurrently with the Van Ness Commercial District Action Strategy using coordinated public engagement and recommendations. In particular, this report builds upon and assists implementation of the Action Strategy's public space and sustainability recommendations. Shades of Green is preliminary exploration of a design concept, taking the drawings to a 15% level. Implementation of these proposed streetscape changes will primarily be achieved through public space improvements completed incrementally by property owners in conjunction with the repositioning or redevelopment of buildings in the commercial district. The Van Ness Commercial District Action Strategy identifies a number of properties that are likely to be either redeveloped (given additional development capacity under zoning) or repositioned through capital investments.

PROJECT OBJECTIVES

- Identify opportunities to remove existing impervious paving
- Identify appropriate hardscape and landscape plant materials
- Develop a plan and designs for incorporating green infrastructure where feasible
- Ensure new LID facilities do not negatively impact existing underground utilities, including those supporting Metro

SCOPE OF STUDY:

- Illustrative Concept Plan
- 15% Design Document Package
- Strategies for incorporating green infrastructure
- Utility survey based on publicly available drawings requested from utilities and georectified on a plan
- Typical sections for each type of LID facility

DOES NOT INCLUDE:

- Changes to curb alignment
- Changes to on-street parking or bus stop locations
- Stormwater engineering plans
- Hydrologic calculations
- Infiltration testing of soil
- Grading plans
- Full survey
- Construction documents

EXISTING CONDITIONS





- Undefined pedestrian zone
- Planting along curb



- Defined pedestrian zone
- Planting along curb



- Defined pedestrian zone
- Tree boxes along curb
- Planting along buildings



LEGEND

Pedestrian Zone
Landscape Zone

Existing Tree

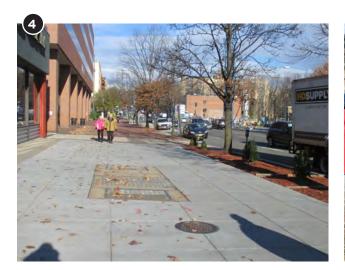
--- Project Boundary

Stormwater Flow Lines

Stormwater Inlets

X Photo Location

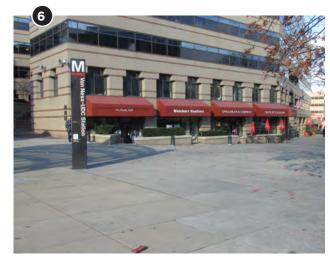
The project study area has many challenges as well as opportunities. Wide expanses of excess paving, inconsistent streetscape materials, and a lack of buffer between pedestrians and traffic all make parts of this study area inhospitable to pedestrians. In other areas, sidewalk paving has obstacles and areas of disrepair, complicating pedestrian accessibility. The location of the main pedestrian walkway varies from block to block, resulting in indirect connections. Finally, the heavy concentration of utilities on both sides of the road—a byproduct of the metro line and the historic streetcar alignment—creates challenges for locating green infrastructure and new trees.



- Undefined pedestrian zone
- Tree boxes along curb
- Excessively wide sidewalk



- Uneven paving due to construction
- Planting along buildings

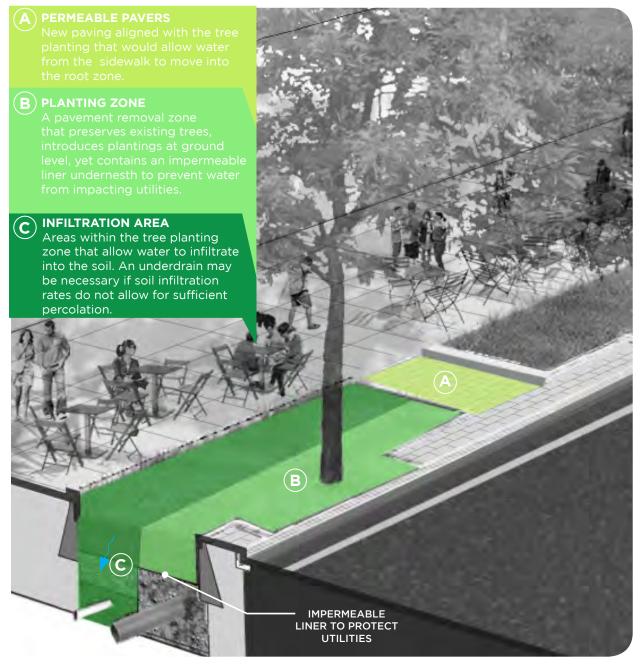


- Metro plaza
- Undefined pedestrian zone
- No planting areas



CONCEPTUAL APPROACH

PREFERRED APPROACH: SHADES OF GREEN

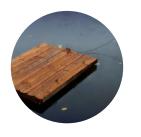


The unusually wide sidewalks between the curb and the buildings provide a unique opportunity to create three separate zones within the sidewalk area: 1. a gracious sidewalk zone for pedestrian movement located along the face of the building, 2. an outdoor café zone, and 3. a plant zone for trees and ground level plantings. Infiltration areas within the planting allow water to infiltrate into the soil. This study looked at different configurations for each of these zones.

The cafe zone along the building face extends the retail experience creating a more active and engaging public realm. Replacing paved surfaces with planted surfaces helps reduce the impact of stormwater run-off and heat retention. The reduction of stormwater runoff is maximized by incorporating a multi-layered greening strategy we are calling the "Shades of Green" strategy. The planted zone is designed to buffer pedestrians from the impacts of traffic.

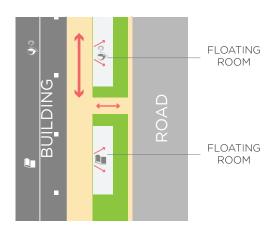
A variation of this approach is recommended for the west side of Connecticut Ave between Veazey Terrace and Yuma street where the public space and land use enable the order of the cafe zone and sidewalk to be switched. This alignment maximizes environmental sustainability outcomes while improving access to the Metro station and retailers.

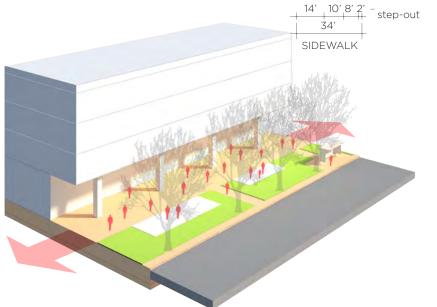
DESIGN CONCEPTS



FLOATING ROOMS

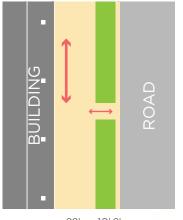
Floating rooms combine cafe and landscaping zones. The floating rooms concept promotes increased activity by enabling pedestrians to more easily travel between the Metro station and their destinations including UDC, residential areas and retailers.



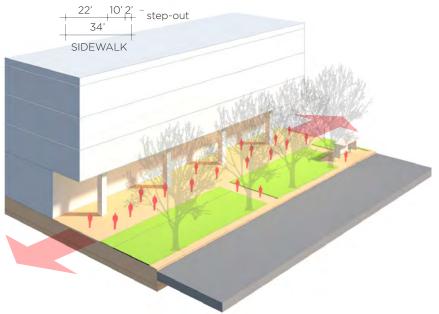




LINEAR GARDEN



Linear garden is the primary streetscape concept for Van Ness. This strategy maximizes pavement removal and green infrastructure opportunities by taking advantage of the existing mature trees.



BIRDS EYE VIEW BETWEEN YUMA STREET AND WINDOM PLACE



STREET LEVEL VIEW BETWEEN YUMA STREET AND WINDOM PLACE

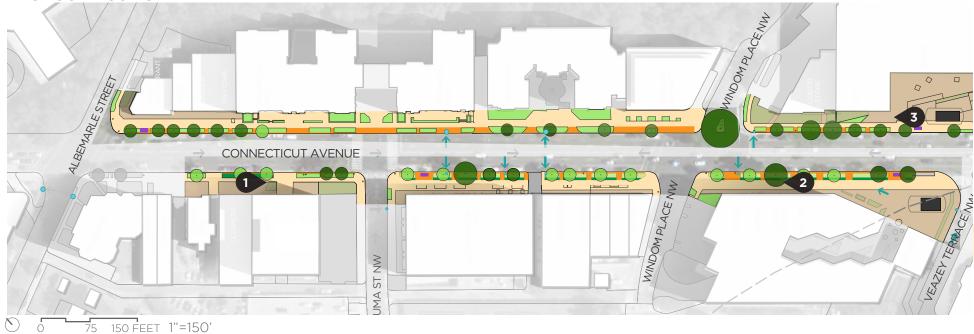


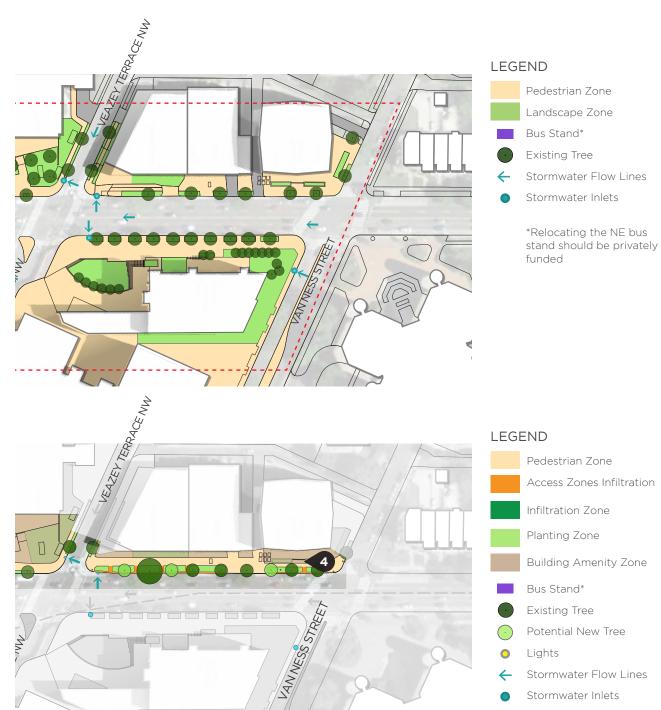
SIDEWALK ZONE	CAFE ZONE	PLANTING ZONE	STEP OUT ZONE	CONNECTICUT AVE.
Primary pedestrian passage way. Approximately 14-15' in width. Paved with London pavers.	Consider using a slightly	trees and new proposed trees. Low curbs surround the planters. Inside, a matrix of low ornamental grasses fills the ground level and	zone allows pedestrians to safely step out of the parking	

EXISTING

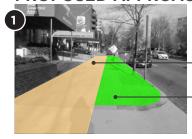


PROPOSED CONCEPT





PROPOSED APPROACH



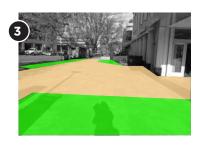
Defined pedestrian walkways LID opportunity area / impervious pavement removal



Stormwater Flow Lines

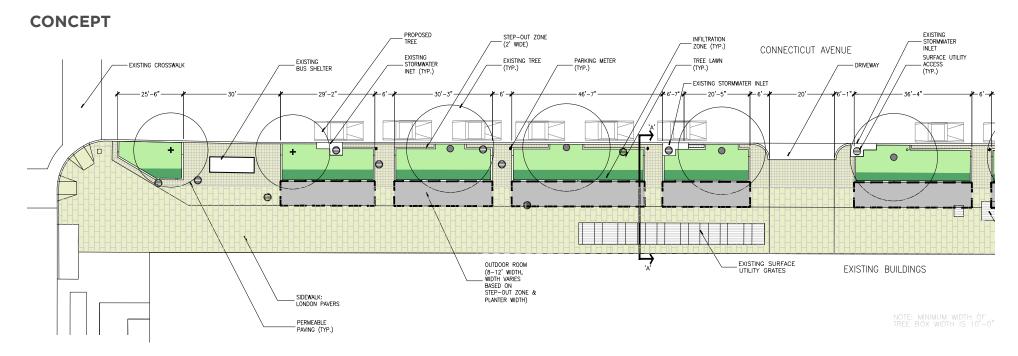
Stormwater Inlets

*Relocating the NE bus stand should be privately funded

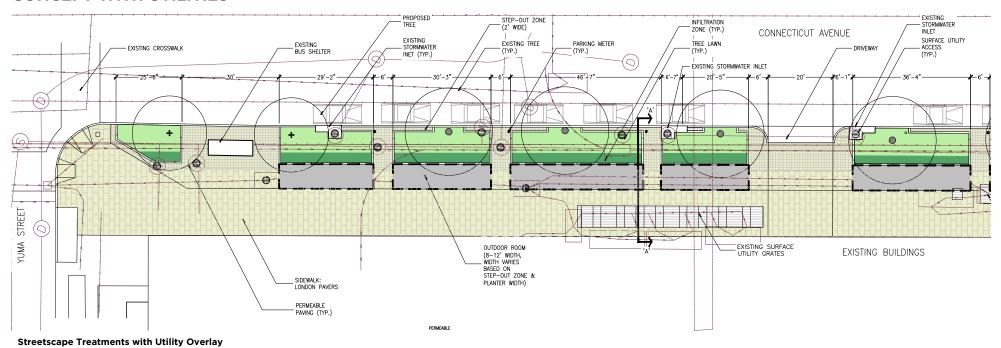




FOCUS AREA PLAN YUMA STREET TO WINDOM PLACE



CONCEPT WITH UTILITIES



ON-STREET EXISTING RETAIL PATIO EXISTING SURFACE **UTILITIES LEGEND** UNDERGROUND SANITARY SEWER LINE (DATR) UNDERGROUND STORM DRAIN LINE (DATR) UNDERGROUND WATER LINE (DATR) UNDERGROUND COMMUNICATION LINE (DATR) UNDERGOUND ELECTRIC LINE (DATR) ON-STREET UNDERGROUND GAS LINE (DATR) PARKING (TYP.) (DATR) DATA ACCORDING TO RECORDS WATER MANHOLE FIRE HYDRANT SANITARY SEWER MANHOLE STORM DRAIN MANHOLE GAS METER 自 MINDOM PL , EXISTING RETAIL PATIO EXISTING SURFACE

WORKING AROUND UTILITIES

The density of underground utilities created a number of challenges for locating trees and infiltration zones. Ultimately, a strategy was developed to keep existing trees in their current location along the back of the street curb. New trees were only recommended where existing trees were insubstantial or not-thriving. Filtration zones can only be added when new trees are added or existing trees are replaced. As different portions of the streetscape are implemented, utilities should be consolidated and relocated away from the tree-boxes where possible. Further study is required to determine if stormwater can be collected from both the sidewalk and curb.

YUMA TO WINDOM STATISTICS

- 1,854 square feet of proposed cafe seating and 123 seats
- 3,115 square feet of proposed planted area (100% increase from existing)





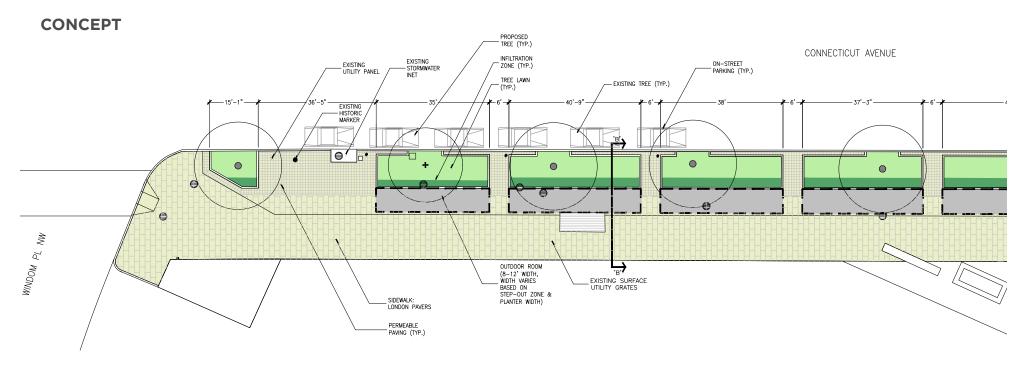


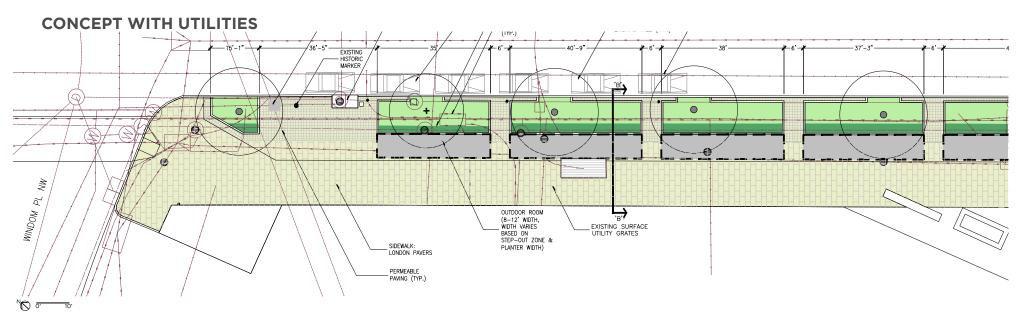


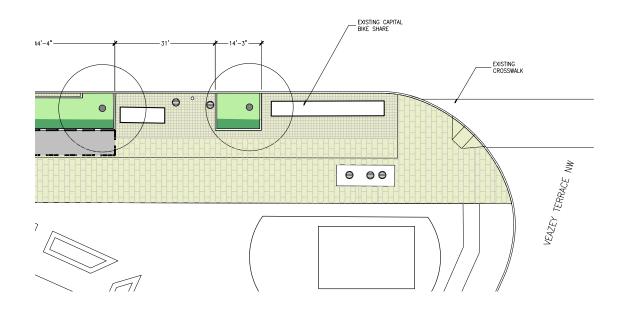


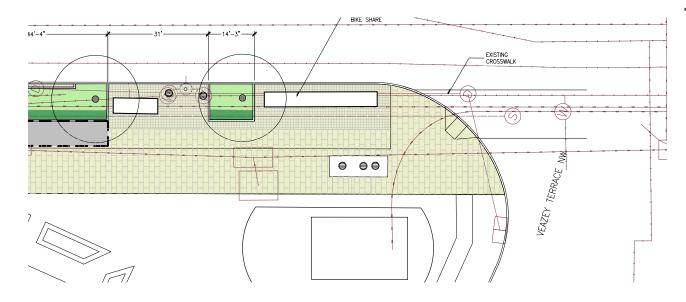


FOCUS AREA PLAN WINDOM PLACE TO VEAZEY TERRACE









WINDOM TO VEAZEY STATISTICS

- 1,468 square feet of proposed cafe seating and 97 cafe seats.
- 2,151 square feet of proposed planted area (75% increase in existing)







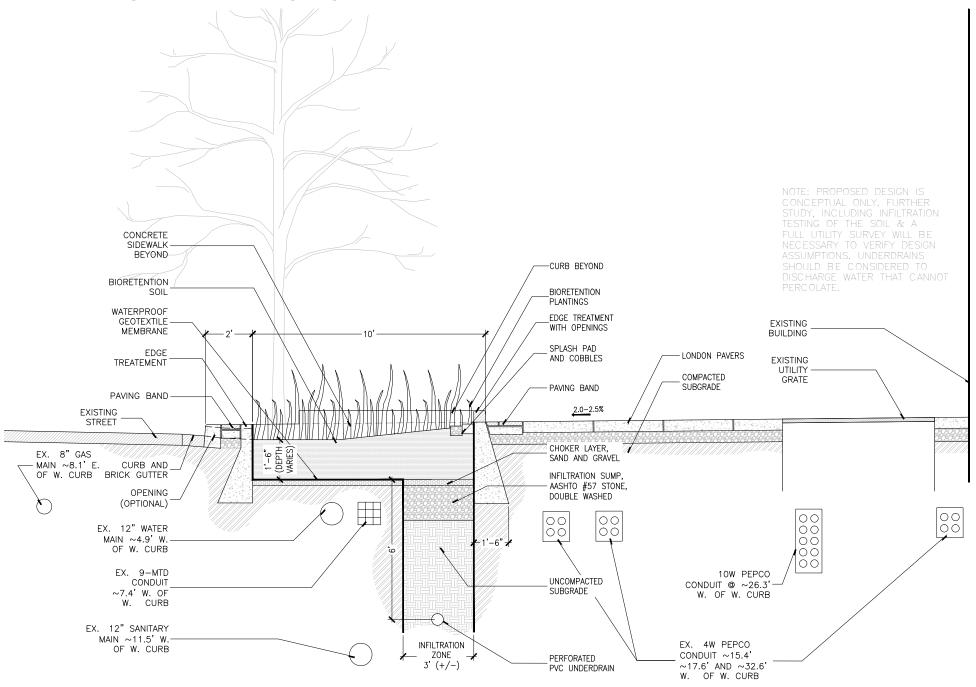


INFILTRATION ZONE

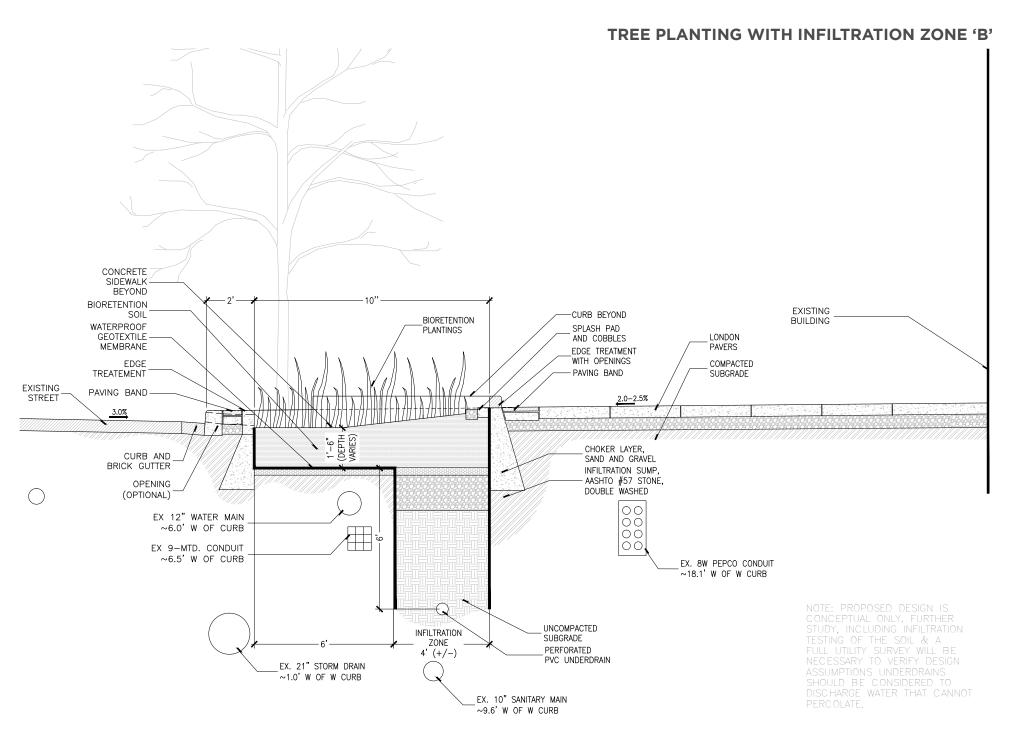
PLANTING ZONE (NON-INFILTRATION)

FOCUS AREA SECTION BETWEEN YUMA STREET AND WINDOM PLACE

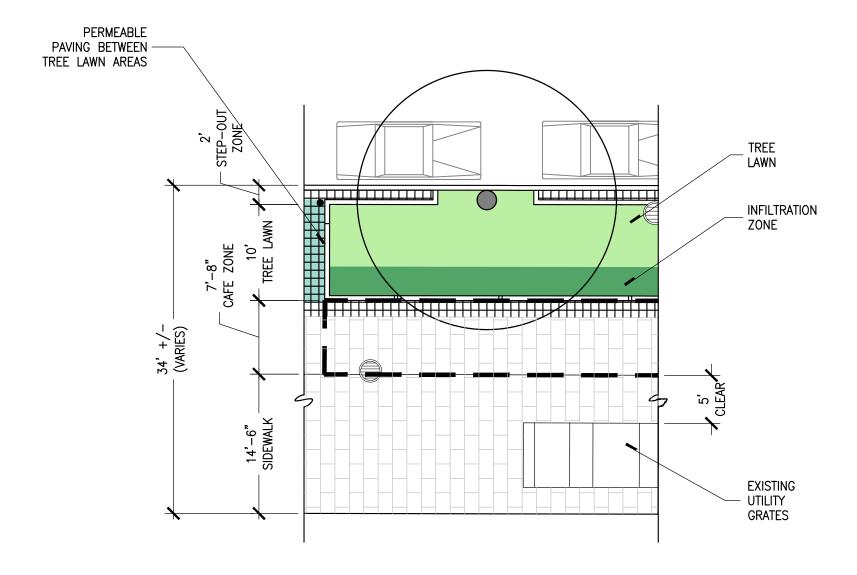
TREE PLANTING WITH INFILTRATION ZONE 'A'



FOCUS AREA SECTION BETWEEN WINDOM PLACE AND VEAZEY TERRACE



FOCUS AREA DETAIL PLAN BETWEEN YUMA STREET AND WINDOM PLACE



PROPOSED MATERIALS

UNIT PAVER PAVING

CAFE SEATING + PEDESTRIAN ZONE

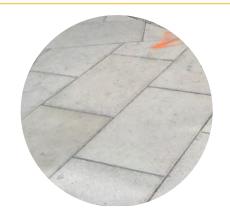
INFILTRATION ZONE

UNIT PAVER PAVING [AROUND TREE PLANTERS]
PERMEABLE PAVERS (CONCRETE OR ASPHALT)
SQUARE IN SHAPE, GRAY IN COLOR
PERMEABLE WHERE INFILTRATION IS POSSIBLE





PEDESTRIAN ZONE
LONDON PAVERS
TO MATCH CURRENT DDOT STANDARD
BOTH SIDEWALK AND CAFE ZONES





TREE SPACE/PLANTING + INFILTRATION ZONE

PLANTING ZONE

THE INTENT IS TO PLANT A MATRIX OF LOW (24-36") SITE ADAPTIVE GRASSES TO CREATE A CLEAN, CONSISTENT GREEN BUFFER FROM THE ROAD. FLOWERING PERENNIALS CAN BED RANDOMLY DISTRIBUTED THROUGHOUT FOR ADDITIONAL SEASONAL INTEREST

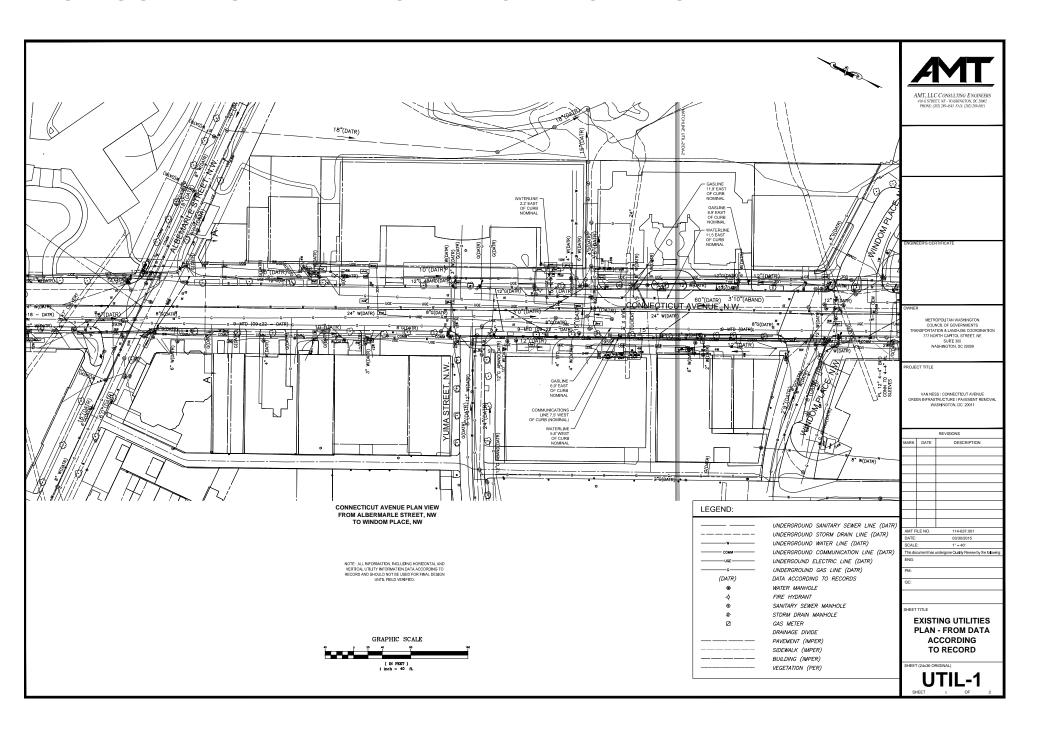




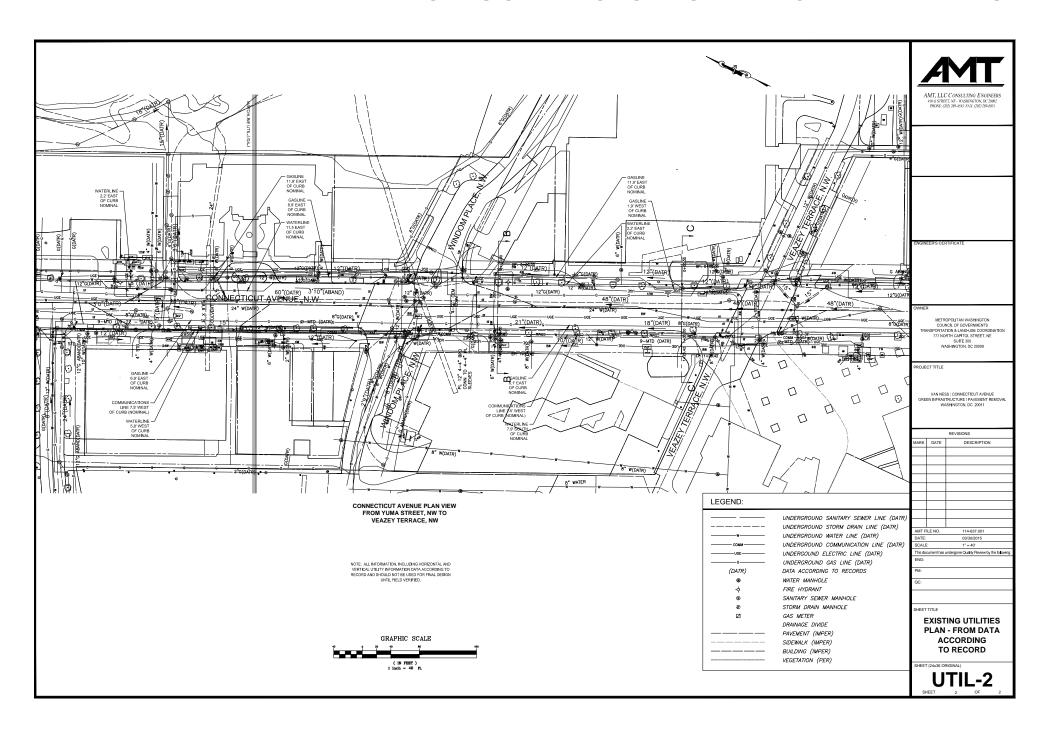




EXISTING UTILITIES ALBEMARLE STREET TO WINDOM PLACE



EXISTING UTILITIES YUMA STREET TO VEAZEY TERRACE



DRAINAGE AREA TREATMENT BY BIORETENTION FACILITIES

ALBEMARLE STREET TO WINDOM PLACE DA #8 = 9.75 AC PREDEVELOEMENT HOP = 0.69 AC FIR = 0.07 AC CN = 0.89 POST DEVELOPMENT JMP = 0.67 AC PER = 0.08.AC CN = 0.88 AMT, LLC CONSULTING ENGINEERS PAREET NICK DA1 CONNECTICUT AVENUE N W DA₂ METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS SPORTATION & LAND-USE COORDINATION 777 NORTH CAPITOL STREET, NE SUITE 200 ā DA #2 = 1.06 AC -PRE DEVELOPMENT IMP = 0.93 AC PER = 0.13 AC ---DA #4 = 0.25 Ac SUITE 300 WASHINGTON, DC 20009 HMP = 0.24 AC PER = 0.02 AC-CN = 0.86 CN = 0.90 POST DEVELOPMENT POST DEVELOPMENT IMP = 0.86 AC----PER = 0.20 AC VAN NESS / CONNECTICUT AVENUE GREEN INFRASTRUCTURE / PAVEMENT REMOVAL WASHINGTON, DC 20011 REVISIONS CONNECTICUT AVENUE PLAN VIEW LEGEND: FROM ALBERMARLE STREET, NW TO WINDOM PLACE, NW UNDERGROUND SANITARY SEWER LINE (DATR) UNDERGROUND STORM DRAIN LINE (DATR) UNDERGROUND WATER LINE (DATR) UNDERGROUND COMMUNICATION LINE (DATR) UNDERGOUND ELECTRIC LINE (DATR) SWRv SWRv Depth Void Required Ratio Area (sf) 0.25 944 0.25 1,017 0.25 408 0.25 195 0.25 443 0.25 854 UNDERGROUND GAS LINE (DATR) Area # Area (sf) Req.(cf) Req. (gal) (ft) 17,670 1,180 8,830 15,059 1,271 9,506 7,788 511 3,819 4,240 243 1,821 8,338 553 4,139 16,121 1,068 7,985 DATA ACCORDING TO RECORDS (DATR) 7,788 4,240 8,338 16,121 WATER MANHOLE AMT FILE NO. 114-637.001 FIRE HYDRANT SANITARY SEWER MANHOLE 1,376 STORM DRAIN MANHOLE This document has undergone Quality Review by the following GAS METER DRAINAGE DIVIDE PAVEMENT (IMPER) SIDEWALK (IMPER) BUILDING (IMPER) VEGETATION (PER) SHEET TITLE EXISTING DRAINAGE AREAS TO BE TREATED GRAPHIC SCALE BY BIO-RETENTION FACILITIES (1 OF 2) NOTE: ALL INFORMATION, INCLUDING HORIZONTAL AND VERTICAL UTILITY INFORMATION DATA ACCORDING TO RECORD AND SHOULD NOT BE USED FOR FINAL DESIGN UNTIL FIELD VERIFIED. DA-1

DA#1: DRAINAGE AREA CALCULATIONS

Drainage areas are the total area of drainage for each culvert. These are calculated to help understand the potential volume of water that specific green infrastructure facilities may have to manage. Refer to the map on page 31.

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#1

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	7,118
Impervious Cover	0	10,553
ВМР	0	0
Site Total	0	17,670

Land Cover Summary

Destruction District of Michigan

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	40%
% Impervious Cover	0%	60%
Site Rv	0.00	0.67

SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	1,180
Stormwater Retention Volume, SWRv (gallons)	0	8,830
Water Quality Treatment Volume, WQTv (cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

NOTE: COMPUTATIONS ASSUME NO DISTURBANCE WITHIN THE DRIVE LANES.

Drainage Area#	Land Area (sf)	SWRv Reg.(cf)	SWRv Req. (gal)	Depth (ft)	Void Ratio	Required Area (sf)
1	17,670	1,180	8,830	5	0.25	944
2	15,059	1,271	9,506	5	0.25	1,017
3	7,788	511	3,819	5	0.25	408
4	4,240	243	1,821	5	0.25	195
5	8,338	553	4,139	5	0.25	443
6	16,121	1,068	7,985	5	0.25	854
7	19,499	1,376	10,295	5	0.25	1,101
	88,716	6,203	46,395			4,962

Rv Coefficients

Land Cover Type	Rv
Natural Cover	0.00
Compacted Cover	0.25
Impervious Cover	0.95

DA#2: DRAINAGE AREA CALCULATIONS

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#2

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover Site Development

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	8,751
Impervious Cover	0	11,074
ВМР	0	0
Site Total	0	19,825

Land Cover Summary

Building Block of MC

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	44%
% Impervious Cover	0%	56%
Site Rv	0.00	0.64

SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	1,271
Stormwater Retention Volume, SWRv (gallons)	0	9,506
Water Quality Treatment Volume, WQTv (cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

Rv Coefficients

DA#3: DRAINAGE AREA CALCULATIONS

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#3

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	3,275
Impervious Cover	0	4,513
ВМР	0	0
Site Total	0	7,788

Land Cover Summary

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	42%
% Impervious Cover	0%	58%
Site Rv	0.00	0.66

Rv Coefficients

Land Cover Type	Rv
Natural Cover	0.00
Compacted Cover	0.25
Impervious Cover	0.95

SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	511
Stormwater Retention Volume, SWRv (gallons)	0	3,819
Water Quality Treatment Volume, WQTv(cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv(gallons)	NA	NA

DA#4: DRAINAGE AREA CALCULATIONS

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#4

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	2,277
Impervious Cover	0	1,963
ВМР	0	0
Site Total	0	4,240

Land Cover Summary

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	54%
% Impervious Cover	0%	46%
Site Rv	0.00	0.57

SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	243
Stormwater Retention Volume, SWRv (gallons)	0	1,821
Water Quality Treatment Volume, WQTv (cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

Rv Coefficients

Land Cover Type	Rv	
Natural Cover	0.00	
Compacted Cover	0.25	
Impervious Cover	0.95	

DA#5: DRAINAGE AREA CALCULATIONS

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#5

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	3,411
Impervious Cover	0	4,927
ВМР	0	0
Site Total	0	8,338

Land Cover Summary

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	41%
% Impervious Cover	0%	59%
Site Rv	0.00	0.66

SWRv and WQTv Summary

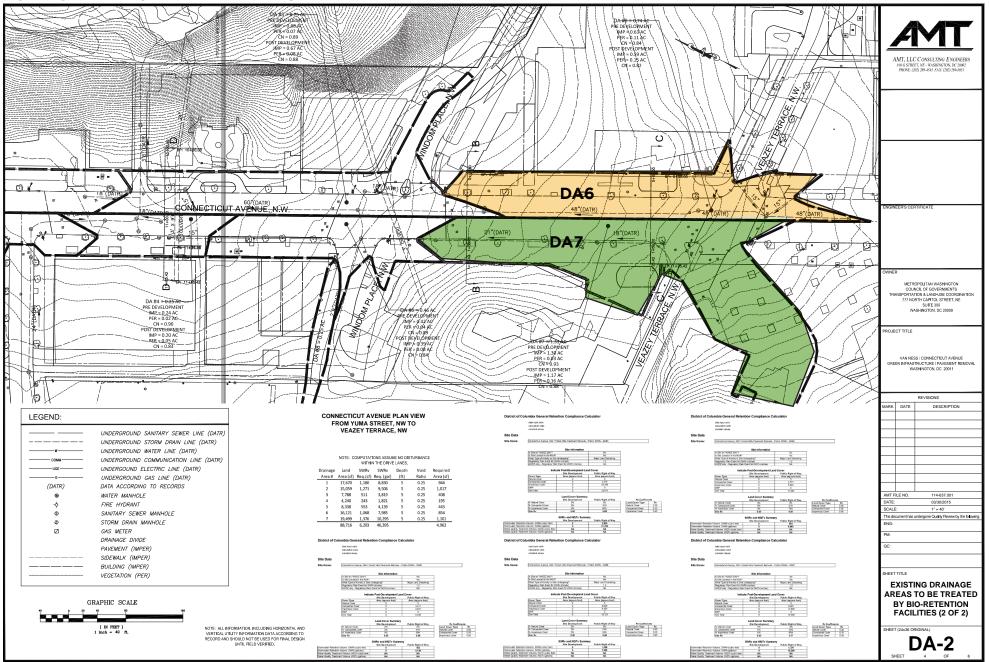
	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	553
Stormwater Retention Volume, SWRv (gallons)	0	4,139
Water Quality Treatment Volume, WQTv (cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

Rv Coefficients

Land Cover Type	Rv	
Natural Cover	0.00	
Compacted Cover	0.25	
Impervious Cover	0.95	

DRAINAGE AREA TREATMENT BY BIORETENTION FACILITIES

YUMA STREET TO VEAZEY TERRACE



District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#6

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

	Site Development	Public Right of Way
Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	6,629
Impervious Cover	0	9,493
ВМР	0	0
Site Total	0	16, 121

Land Cover Summary

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	41%
% Impervious Cover	0%	59%
Site Rv	0.00	0.66

SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	1,068
Stormwater Retention Volume, SWRv (gallons)	0	7,985
Water Quality Treatment Volume, WQTv(cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

Rv Coefficients

Land Cover Type	Rv
Natural Cover	0.00
Compacted Cover	0.25
Impervious Cover	0.95

DA#7: DRAINAGE AREA CALCULATIONS

District of Columbia General Retention Compliance Calculator

data input cells calculation cells constant values

Site Data

Site Name:

Connecticut Avenue, NW / Forest Hills Pavement Removal - Prelim SWRv - DA#7

Site Information

Is Site an "AWDZ Site"?	No
Is Site Located in the MS4?	No
What Type of Activity is Site Undergoing?	Major Land Disturbing
Regulatory Rain Event for SWRv (inches)	1.2
AWDZ only - Regulatory Rain Event for WQTv (inches)	NA

Indicate Post-Development Land Cover

Site Development	Public Right of Way

Cover Type	Area (square feet)	Area (square feet)
Natural Cover	0	0
Compacted Cover	0	6,801
Impervious Cover	0	12,699
ВМР	0	0
Site Total	0	19,499

Land Cover Summary Site Dayslanment

	Site Development	Public Right of Way
% Natural Cover	0%	0%
% Compacted Cover	0%	35%
% Impervious Cover	0%	65%
Site Rv	0.00	0.71

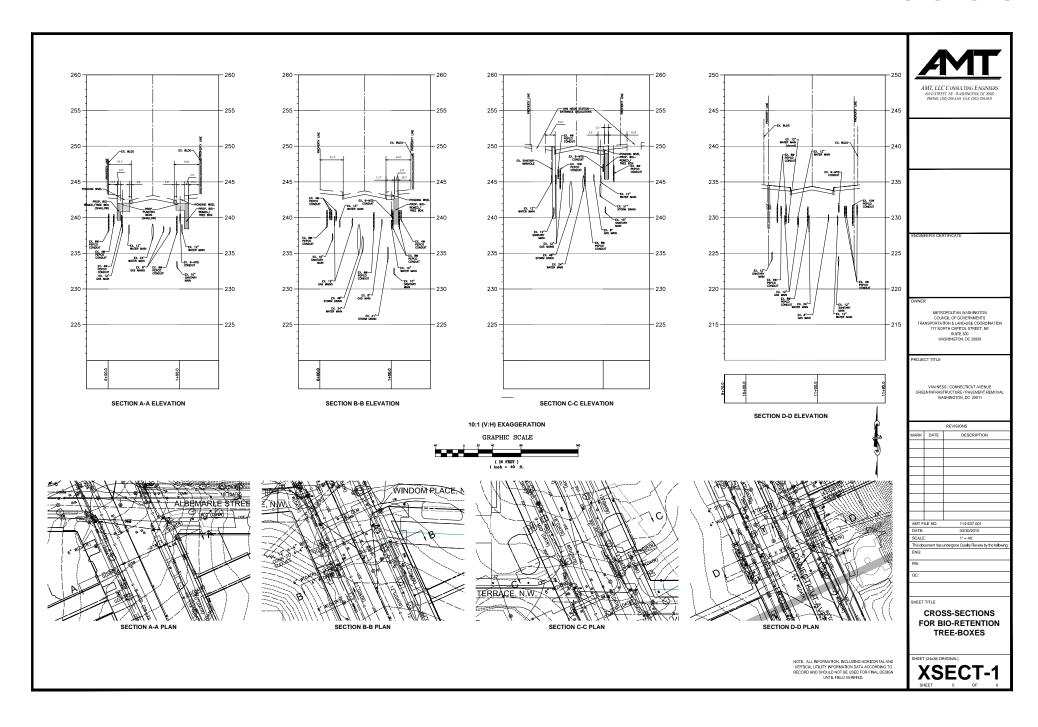
SWRv and WQTv Summary

	Site Development	Public Right of Way
Stormwater Retention Volume, SWRv (cubic feet)	0	1,376
Stormwater Retention Volume, SWRv (gallons)	0	10,295
Water Quality Treatment Volume, WQTv (cubic feet)	NA	NA
Water Quality Treatment Volume, WQTv (gallons)	NA	NA

Rv Coefficients

Land Cover Type	Rv
Natural Cover	0.00
Compacted Cover	0.25
Impervious Cover	0.95

SECTIONS



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