SWM CONCEPT SUMMARY TABLE Contact Information for Design Engineer (for technical issues): Jason Azar, P.E. Vice President, Clark | Azar & Associates, Inc. 20440 Century Boulevard, Suite 220 Germantown, MD 20874 mdpermitting@clarkazar.com (240) 912-3491 General Property Information: SM#: STORMWATER-289843 Type of Concept: Combined SWM Concept/Site Development SWM Plan MNCP&PC Process No.: N/A Property Address: 2205 Kansas Avenue, Silver Spring, Maryland 20910 Property Legal Description: N/A; Lot/Block: N/A Property Size (ac./sq. ft.): 0.68 ac. / 29,576 sq. ft. Total Concept Area (ac./sq. ft.): 0.71 ac. / 30,898 sq. ft. Zoning: N/A - R/W (Unzoned) Watershed and Stream Class: Lower Rock Creek Watershed; Class I Special Protection Area: N/A 100 YR Floodplain: N/A (Zone X - FEMA Floodplain Map 24031C0370D, 9/29/2006) Ex. % Impervious/Redevelopment or New Development: 0.0% - New Development SWM Summary: Target Pe /Proposed Pe: 1.6 in. /1.71 in Target ESDv/Provided ESDv: 1,261 cu. Ft. / 1,359 cu. ft. Provided CPv: N/A cu. ft. ESD Measures: (2) Micro-Bioretention Cpv Measues: N/A

Provided ESDv + Structural Storage Provided + Requested to be Waived = 1,359 cu. ft.

Structural Storage Required/Provided: N/A

Structural Measures: N/A

Other Information: N/A

Waiver Request/QL/QN/Both: No

VICINITY MAP SCALE: 1" = 2000'

STORMWATER CONCEPT LEGEND PROPOSED LIMITS OF DISTURBANCE PROPOSED PAVEMENT PROPOSED PLAY SPACE (IMPERVIOUS) PROPOSED MICRO-BIORETENTION AREA SOIL CLASSIFICATION BOUNDARY SOIL BORING/INFILTRATION TEST LOCATION

GENERAL NOTES

OWNER: MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION (M-NCPPC) 2425 REEDIE DRIVE, 14TH FLOOR WHEATON, MARYLAND 20902

CONTACT: CHING-FANG CHEN, PROJECT MANAGER (301) 495-2557 CHING-FANG.CHEN@MONTGOMERYPARKS.ORG

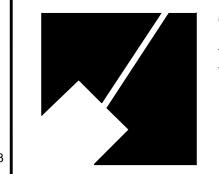
- 1. WSSC MAP GRID: 211NW02
- 2. TAX MAP: JP-11
- ZONING: R/W (CURRENTLY UNZONED)
- 4. ELECTION DISTRICT: 13
- 5. TOPOGRAPHIC SURVEY AND ADJACENT PROJECT AREAS (PURPLE LINE/CAPITAL CRESCENT TRAIL) WERE PROVIDED BY PURPLE LINE.
- 6. THE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN APPROXIMATE IN NATURE AND PER AVAILABLE PLANS AND SURVEY INFORMATION PROVIDED BY PURPLE LINE. ABOVE GROUND UTILITIES & IMPROVEMENTS ARE SHOWN PER SURVEY AND AVAILABLE PLANS PROVIDED BY PURPLE LINE; INVERT ELEVATIONS HAVE BEEN OBTAINED WHERE ACCESS IS AVAILABLE. ALL CONTRACTORS MUST CALL "MISS UTILITY" PRIOR TO ANY EXCAVATIONS.
- NRCS WEB SOIL SURVEY IDENTIFIES SOILS AT THIS SITE AS GLENELG-URBAN LAND COMPLEX ('HSG-B'), AND URBAN LAND ('HSG-D').
- 8. THIS SITE IS CLASSIFIED AS "ZONE-X" (AREA OF MINIMAL FLOOD HAZARD) PER FEMA FLOOD INSURANCE RATE MAP NUMBER 24031C0370D, DATED SEPTEMBER 29, 2006.

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



JON MALLORY 23.07.13 DAVID MITCHEL Landscape Designer Date Checked By: Architect Checked By: License No. 31168 JASON AZAR, P.E. Date Checked By: Expiration Date 01/12/2025 MATT EDELMAN, E.I.T. 23.07.13 JASON AZAR Date Checked By:

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.



The Maryland-National Capital Park and Pla Montgomery Co 2425 Reed

rai yraiiu-inaiioirai Capitai		
and Planning Commission		
gomery County Department of Parks	Project Manager	Da
2425 Reedie Drive, 11 th Floor Wheaton, Maryland 20902	Construction Manager	Da
(301) 495-2595	Park Manager	Da

	REVIEW AND APPROVAL	ISSUEI	O FOR P	PROCUREMENT ON	Lyttonsville Area Future Neighborhood Pa
l				REVISIONS	2205 Kansas Avenue, Silver Spring, Maryland 20910
1		Rev. No.	Date	Description	STORMWATER MANACEMENT CONCERT DI A
	Project Manager Date				STORMWATER MANAGEMENT CONCEPT PLA
	Construction Manager Date				
	Park Manager Date				SUBDIVISION: PARCEL ; LOT/BLOCK: LIBER/FOLIO:
					SCALE: AS SHOWN LIBER/FOLIO:

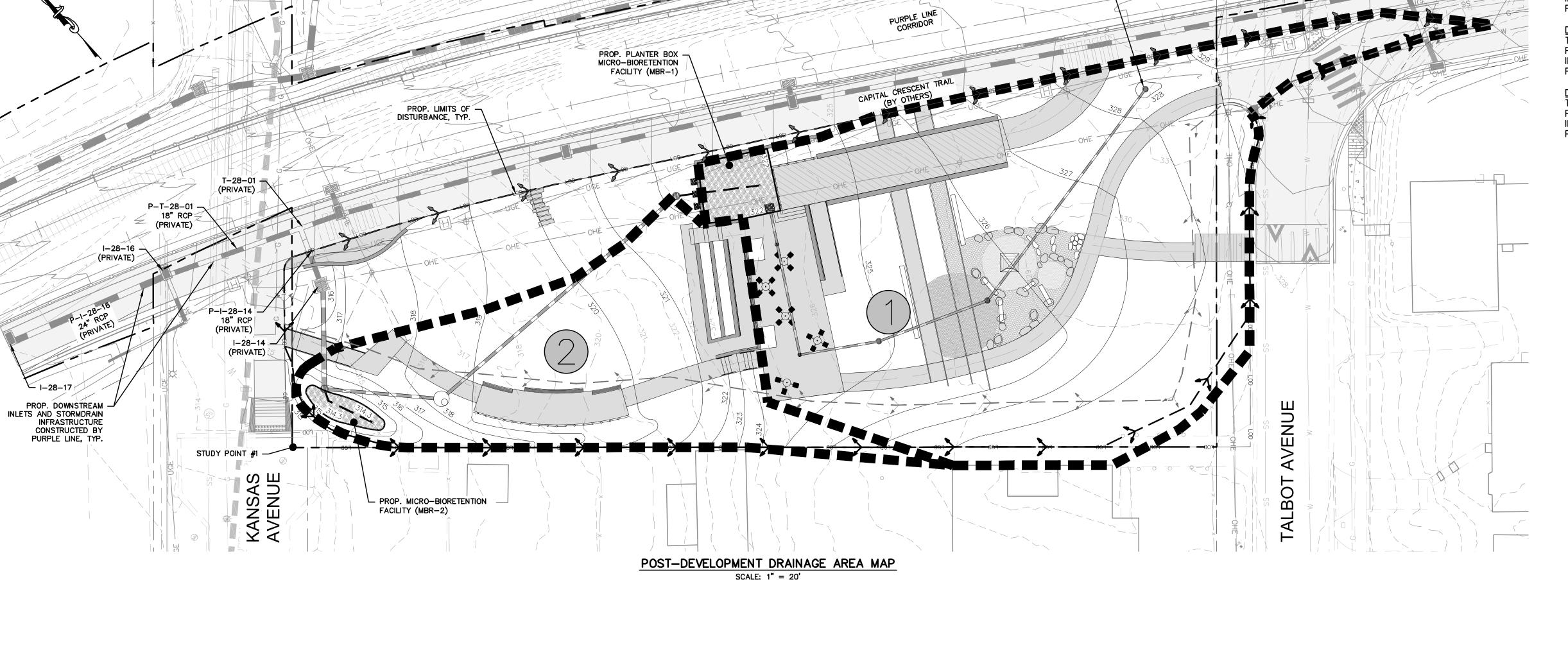
1 INCH = 20 FT. Lyttonsville Area Future Neighborhood Park

STORMWATER MANAGEMENT CONCEPT PLAN

DWG.#

C-1 SHT. # <u>1</u> of <u>2</u>





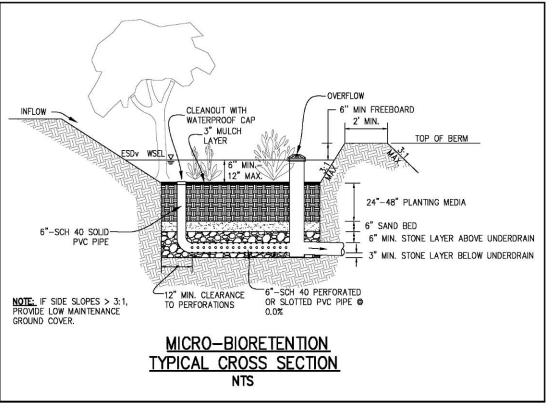
<u>LIMITS OF DISTURBANCE:</u> TOTAL AREA = 30,898 SF PERVIOUS AREA = 22,045 SF IMPERVIOUS AREA = 8,853 SF PERCENT IMPERVIOUS = 28.7%

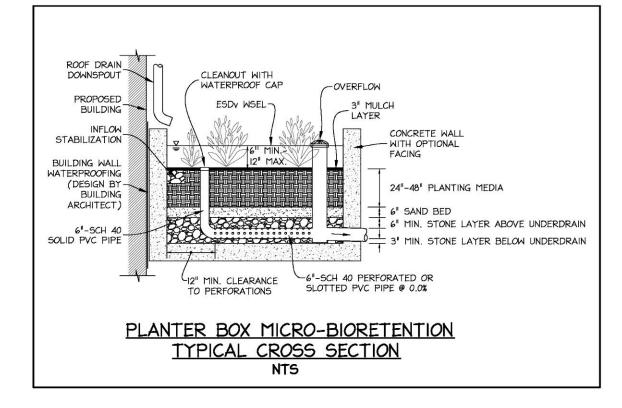
DRAINAGE AREA 1 (TO MBR-1): TOTAL AREA = 19,447 SF PERVIOUS AREA = 12,071 SF IMPERVIOUS AREA = 7,376 SF PERCENT IMPERVIOUS = 37.9%

DRAINAGE AREA 1 (TO MBR-2): TOTAL AREA = 8,161 SF PERVIOUS AREA = 6,347 SF IMPERVIOUS AREA = 1,814 SF PERCENT IMPERVIOUS = 22.2%

			SWM	SUMMARY	TABLE			
		Drainage	Impervious					
		Area to	Area to					Credited
Measure	Type of	Measure	Measure	%	Rv for ESD	Min ESDv	Max ESDv	Volume
Number	Measure	(SF)	(SF)	Impervious	Calculations	(CF)	(CF)	(CF)
ESD								
	Bioretentio							
'MBR-1'	n	19,447	7,376	37.93%	0.391	634 cf	1,649 cf	1,071 cf
	Micro-							
MBR-2'	Bioretentio	8,161	1,814	22.23%	0.250	170 cf	442 cf	288 cf
Total		27,608	9,190					1,359 cf
Structural			r			,	,	
Total		0	0					C
Does not	drain to a SWI	VI measure	1					
QN Waive	r acres and %	imperviou	IS					N/A
QL Waive	r arcres and %	impeviou	s			_		N/A
Project								
Total		27,608	9,190					1,359 cf

ESDv Required ESDv Provided CPv Volume Provided	1,26 1,35
Structural Required	
Strucutural Provided	





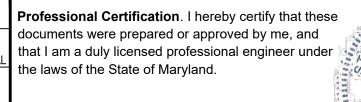
PROP. INLET, TYP.

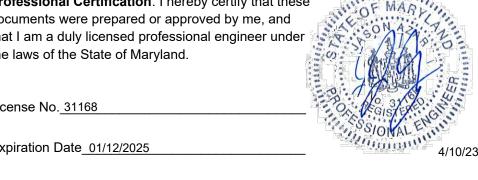
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A Woman Owned Small Business

DE	SIGN		Professional Certifi
JON MALLORY	23.07.13	DAVID MITCHELL	documents were pre that I am a duly licer
Landscape Designer	Date	Checked By:	the laws of the State
Architect	Date	Checked By:	License No. 31168
JASON AZAR, P.E.	23.07.13	DANA CLARK	
Engineer	Date	Checked By:	Expiration Date 01/1
MATT EDELMAN, E.I.T.	23.07.13	JASON AZAR	<u> </u>
Drawn by	Date	Checked By:	





The Maryland-National Capital Park and Planning Commission
Montgomery County Department of Parks 2425 Reedie Drive, 11 th Floor Wheaton, Maryland 20902 (301) 495-2595

	REVIEW AND APPROVAL		ISSUEI	FOR PR	OCUREMENT ON	Lyttonsville Ar
					REVISIONS	2205 Kansas Avenu
ì			Rev. No.	Date	Description	CTODM/MATER N
	Project Manager	Date				STORMWATER N
	Construction Manager	Date				
	Park Manager	Date				
						SCALE: AS SHOWN

		C	RAPHO	SCALE	
20	•	10	20	40	80
				EET) = 20 FT.	

SUBDIVISION: PARCEL ; LOT/BLOCK:

LIBER/FOLIO:

2205 Kansas Avenue, Silver Spring, Maryland 20910

STORMWATER MANAGEMENT CONCEPT DETAILS SHT.# <u>2</u> of <u>2</u>

DWG.#