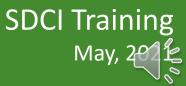


Drainage Review 101 and 2021 Code Update



Photo by John Skelton





DRAINAGE REVIEW 101

- Provide an Overview of Drainage Review requirements for SDCI Applications
- Included are updates to the Stormwater Code scheduled to be adopted on July 1st, 2021
- Presentation is available online on our Stormwater Code website:

http://www.seattle.gov/sdci/codes/codes-we-enforce-(a-z)/stormwatercodewater Code - SDCI | seattle.gov

Q & A sessions will be posted on the SDCI website and updated regularly

Contact Us: <u>SideSewerInfo@seattle.gov</u> 206-684-5362





STORMWATER CODE WEBSITE TOUR

http://www.seattle.gov/sdci/codes/codes-we-enforce-(a-z)/stormwater-code





AGENDA

- Thresholds
- Preliminary Drainage Review
- Approved Points of Discharge
- On-Site Stormwater Management
- Infiltration Feasibility and Testing (Separate training session)
- OSM BMPs (Separate training session)
- Standard Plans

Visit the Stormwater Code Page for all the documents discussed in this presentation

www.seattle.gov/sdci/codes/codes-we-enforce-(a-z)/stormwater-code









Based on New Plus Replaced Hard Surface

All Projects	> 750 SF	> 750 SF + New lot	> 1,500 SF	> 2,000 SF Parcel Based	> 5,000 SF
Side Sewer Review	Drainage Review	Drainage Review and OSM	OSM All Projects	FC may apply	PE REQ WQ may apply
 SS Conflicts Discharge Points 	CSC Sheet				
	 DWC Sheet with OSM project info Completed Small PIT for no approved discharge point 				
		SheetPDF of entire workbookInfiltration testing			



22.805.050 – Parcel-Based Project Thresholds

Requirement	Existing (2016) Code	2021 Code
On-site Stormwater Management	750 sf or 1,500	750 sf or 1,500
 Flow Control (FC) – Combined 	10,000 sf	5,000 sf
• FC – Creek Basins	2,000 sf	5,000 sf
 FC – Small Lake Basins 	2,000 sf	2,000 sf
 FC – Capacity Constrained 	2,000 sf	2,000 sf
 Engineer of Record Required 	5,000 sf	5,000 sf
 Single-family Residential Definition 	10,000 sf	5,000 sf

... SFR >5,000 sf = Parcel-Based Project



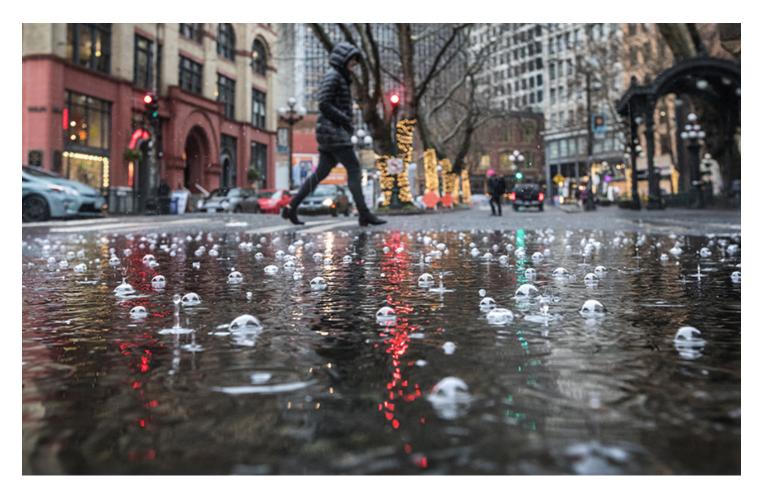


22.170.060 – Grading Permit Required (Thresholds)

- Changed Land Disturbing Activity from 1 acre to <u>5,000 square feet</u>
- Changed New Plus Replace Hard Surface from 2,000 square feet to <u>750 square feet</u>
- Added extracting groundwater (e.g., dewatering wells for construction or remediation)

	2016 Drainage Review Thresholds	2021 Drainage Review Thresholds	Current Grading Permit Threshold	New Grading Permit Threshold
Land Disturbing Activity Area	750 SF	5,000 SF	1 acre	5,000 SF
New Plus Replaced Hard Surface Area	750 SF	750 SF	2,000 SF	750 SF





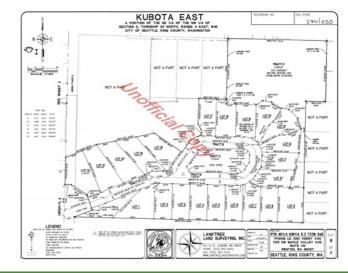




Provide clarification and consistency of MUP Drainage Review and requirements for Short Plats and Subdivisions

- Clarified Submittal Requirements Preliminary Drainage Control Review
 - Preliminary Drainage Plan w/ Site Plan
 - Preliminary Drainage Report
- Clarified which types of MUPs require Preliminary Drainage Control Review
- Established requirements for Shared Drainage Facilities in Subdivisions and Short Plats







MUPs That <u>Will</u> Always Require Preliminary Drainage Review

- Subdivisions and Short Plats
 - Drainage Plans/Report may be deferred to the Building Permits if ...
 - Flow Control and Water Quality are not required.
 - There is available stormwater infrastructure.
 - The Plat is conditioned to require a mainline extension.
- Lot Boundary Adjustments
 - Only require Preliminary Drainage Plans if there is no available stormwater infrastructure.
- Unit Lot Subdivisions
 - Only require Preliminary Drainage Plans if Drainage Plans have not already been submitted with a Building Permit.





MUPs That May Require Preliminary Drainage Review

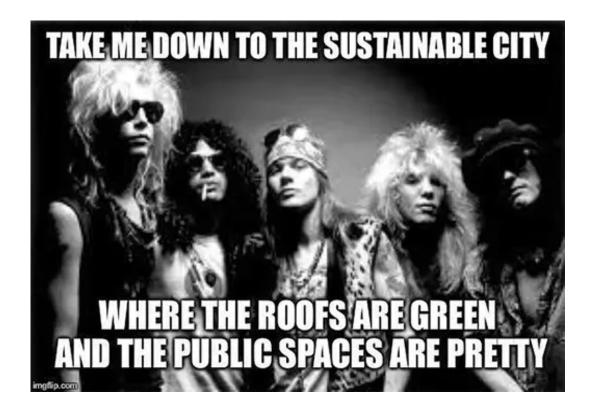
Any MUP that would allow development that includes **750 square feet** or more of new plus replaced hard surface or **5,000 square feet of land disturbing activity** where <u>the Director has determined that a preliminary</u> <u>drainage review is required considering, but not limited, to the following</u> <u>attributes of the site:</u>

- Location within an environmentally critical area (ECA) or buffer;
- Proximity and tributary to an ECA or buffer; or
- Proximity and tributary to an area with adequacy, erosion, water quality, or flooding problems.





APPROVED POINTS OF DISCHARGE







WHERE DO YOU CONNECT?

- Stormwater, Subsurface Drainage and Sanitary points of connection are identified in the Preliminary Assessment Report
- If project did not require a PAR you can contact us to make this determination
- Stormwater
 - Public Storm System
 - Curb/Alley Discharge ("Small Projects Only")
 - Public Combined Sewer
 - Onsite Infiltration/Dispersion
- 2021 Change "Formerly Combined" no longer an approved point of Stormwater Discharge
- All points of Discharge must be clearly shown on plans.









• Two methods to meet requirement:

On-Site List Approach	On-Site Performance Standard
 Choose BMP in highest category feasible 	 Choose BMPs to meet discharge requirements
 BMPs are pre-sized except Rainwater Harvesting 	 Continuous Rainfall-Runoff Modeling Requires a report and sizing calculations (PE Required)





Refer to Appendix C – On-site Stormwater Management Infeasibility Criteria

- New/revised infeasibility criteria
- Revised on-site list categories 1-5
- Added criteria for new BMP: Sidewalk/Trail Compost-Amended Strip (Table C.3)
- Built into On-site List Calculator

BMP	On-site List Infeasibility Criteria	Additional Information from Applicant
Sheet Flow Dispersion	 One or more of the infeasibility criteria for <u>"All BMPs" or</u> "All Dispersion BMPs" (Table C.1) apply. 	
	 The area to be dispersed (e.g., driveway, patio) exceeds a slope of 15 percent. The minimum vegetated flow path for sheet flow dispersion cannot be 	
	met. Note: A 10-foot flowpath is required to disperse runoff from a contributing flow length of up to 20 feet. An additional 10 feet of flow path is required for each additional 20 feet of contributing flow path or fraction thereof. Refer to <i>Volume 3, Figure 5.5</i> .	
	 The flowpath does not meet the minimum horizontal setback requirements to property lines, structures and other flowpaths (refer to Volume 3, Section 5.3.5). 	





	for 22.805.070 ist for Parcel-based Proje	ects	
Category	BMPs	Projects Discharging to a Receiving Water Not Designated by Section 22.801.050, Public Combined Sewer, or Capacity- constrained System, or its Basin	Projects Discharging to a Designated Receiving Water or its Basin
	Full Dispersion	R, S	R, S
1	Infiltration Trenches	R, S ^E	R, S ^g
	((Dry Wells)) Drywells	1 R, S ^e	R, S ^g
	Rain Gardens	R ^a , S ^a	R ^a , S ^a
	Infiltrating Bioretention	R, S	R, S
	Rainwater Harvesting <u></u> Category 2 Sizing	((果 ^地))) <u>X</u> ^會	Xª
2	Permeable Pavement Facilities	R, S	R, S
	Permeable Pavement Surfaces	s	s
	Sidewalk/Trail Compost- Amended Strip	<u>s</u>	<u>s</u>
	Sheet Flow Dispersion	R, S	R, S
	Concentrated Flow Dispersion	s	S
3	Splashblock Downspout Dispersion	R	R
3	Trench Downspout Dispersion	R	R
	((Non-infiltrating Bioretention))	((R, S))	((R, S))
	((Vegetated Roofs))	((R ⁺))	((X))
<u>4</u>	<u>Non-infiltrating</u> <u>Bioretention</u>	<u>R^d, S^d</u>	<u>R^d, S^d</u>
	Rainwater Harvesting— Category 4 Sizing	<u>R^{b, f}</u>	\underline{X}^{f}
	Vegetated Roofs	<u>R</u> ^c	<u>x</u>
((4)) <u>5</u>	Perforated Stub-out Connections	R	R
	((Newly Planted)) Trees	S	S





Category	BMPs	All Discharge Locations
	Full Dispersion	R, S
1	Infiltration Trenches	R, S <u>d</u>
	((Dry Wells)) Drywells	R, S <u>d</u>
	Rain Gardens ^a	R, S
	Infiltrating Bioretention	R, S
2	Rainwater Harvesting—Category 2 Sizing	
2	Permeable Pavement Facilities	R, S
	Permeable Pavement Surfaces	S
	Sidewalk/Trail Compost-Amended Strip	2 <u>s</u>
	Sheet Flow Dispersion	R, S
	Concentrated Flow Dispersion	S
3	Splashblock Downspout Dispersion	R
3	Trench Downspout Dispersion	R
	((Non-infiltrating Bioretention))	3 ((R, S))
	((Vegetated Roofs))	((X))
	Non-infiltrating Bioretention	<u>R, S</u>
<u>4</u>	Rainwater Harvesting—Category 4 Sizing	5 <u>X</u> ^c
	Vegetated Roofs	<u>X</u>
	Single-family Residential Cisterns	R
((4)) <u>5</u>	Perforated Stub-out Connections	R
	((Newly Planted)) Trees	6 s





- On-Site List Calculator has been updated.
- Updates periodically. Please use the most up-to-date version from the website.
- Use the Preliminary Assessment Report (PAR)
- Enable Content
- Combine as many surfaces as possible for clarity

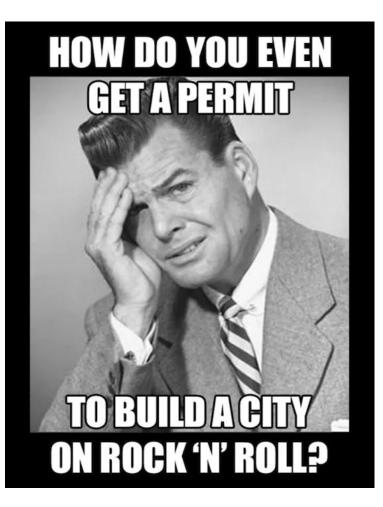
www.seattle.gov/Documents/Departments/SDCI/Forms/OnSiteStormwaterListCalculator.xlsm





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1	On-site Stormwater Management Calculator			
2	Instructions			
3	Version 06-2021			
5	To use the On-Site Stormwater Calculator you must select "Enable Content" when the Security Warning appears.			
6	Note this calculator is designed to work with Microsoft Excel 2010 or newer.			
7	Introduction			_
8 9	This spreadsheet tool helps users implement the On-site Stormwater Management requirements for projects in the City of Seattle. In addition, this spreadsheet documents the other applicable Stormwater Code requirements for projects			$\left\ \cdot \right\ $
10				
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13				
	Drainage and Wastewater Control Plan.			+
1.				
	Refer to Volume 1, Volume 3 (Section 3.3 and Chapter 5), and Appendix C of the Seattle Stormwater Manual (Seattle 2021) for			-
17				
	The "Project Summary" and either the "BMP Sizing" or "BMP Modeling" tabs can be used to provide documentation for			
20				
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	How to Use the On-site List Approach Calculator:			+
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STANDARD PLANS





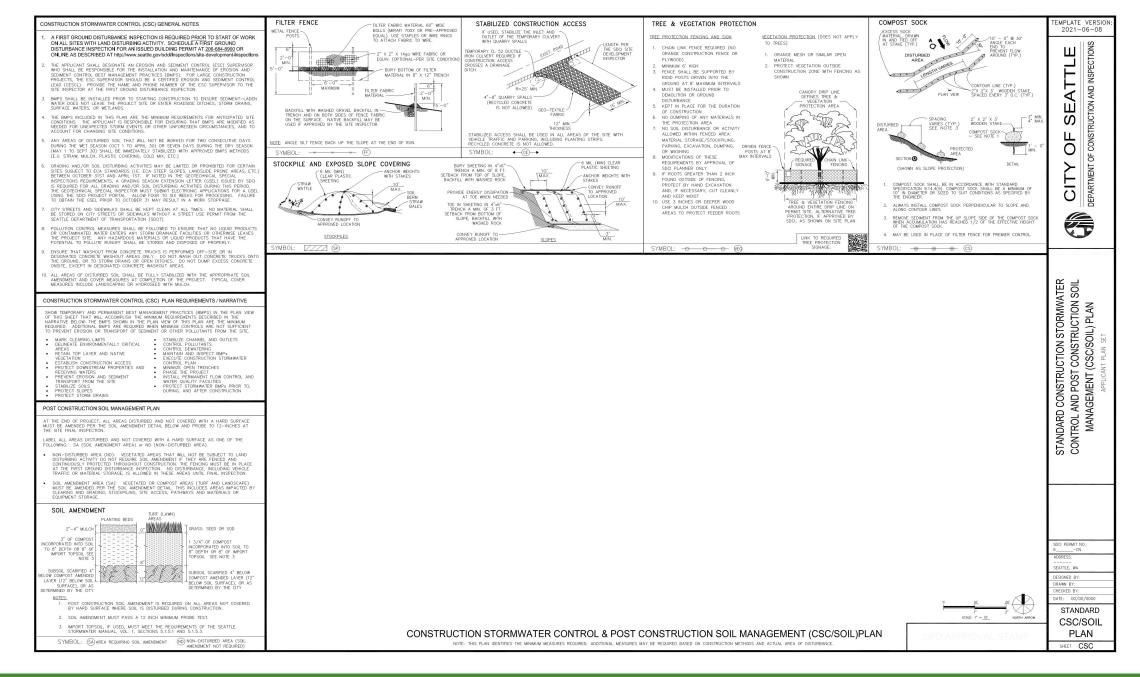


STANDARD PLANS

- Drainage and Wastewater Control (DWC) Plan
- Standard Construction Stormwater Control and Post Construction Soil Management Plan (CSC or CSC/SOIL Plan)











DRAINAGE & WASTEWATER CONTROL PLAN REQUIREMENTS	SIDE SEWER AND DRAINAGE PERMIT NOTES	DETAILS: SELECT THE APPLICABLE D	ETAILS AND SHOW THEM HERE. PROVIDE AN ADDITIONAL SHEET IF NEEDED.		TEMPLATE VERSION:
THIS PLAN SHALL SHOW A SITE PLAN INCLUDING ALL DRAINAGE FEATURES (HARD SURFACES, BMPS, DRAIN LINES, CATCH BASINS, INLETS, PUMPS, ETC.) AND ALL SIDE SEWER FEATURES (SERVICE DRAIN SIDE SEWERS AND	 SIDE SEWERS AND DRAINAGE FACILITIES SHALL BE CONSTRUCTED PER THE "REQUIREMENTS FOR DESIGN OF SID 	DF			2021-06-09
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SEE VOLUME 1, CHAPTER 8 OF THE 2021 SEATLE STORNWATER MANUAL FOR SITE AND DRAINAGE ELEMENTS REQUIRED ON THIS PLAN. THE STORWMATER MANUAL AND CAD TEMPLATES FOR THIS PLAN ARE AVAILABLE AT THE FOLLOWING LINK: http://www.seatle.gov/sed/codes/codes-we-enforce/-d=/)/stormwoter-code	STORMWATER MANUAL" DIRECTORS' RULE SDCI 10-2021/SPI DWW-200.	U			OF SEATTLE OF CONSTRUCTION AND INSPECTION
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SEE THE INSTRUCTIONS TAB IN THE EXCEL FILE FOR GUIDANCE TO SELECT AND DOCUMENT THE ON-SITE STORWWATER MANAGEMENT EMPS IF REQUIRED.	 RE-USE OF EXISTING SIDE SEWERS WHEN THERE WILL BE AI INCREASE IN LIVING UNITS REQUIRES THE EVALUATION AND 	N			A NA
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Project Information Site Address SDCI Project Number	 IN ORDER TO ADD UNITS TO AN EXISTING SIDE SEWER, A CERTIFIED LETTER STATING THE INTENT TO ADD UNITS TO THE SHARED SIDE SEWER MUST BE SENT TO ALL PROPERTY 	e e e e e e e e e e e e e e e e e e e			
Primary Contact SDOT Project Number Project Type Primary Contact E-mail or Phone	OWNERS OF PARCELS SERVED BY THE SHARED SIDE SEWER AT LEAST 30 DAYS PRIOR TO APPLYING FOR THE SIDE SEWER PERMIT. SWC 21.16.240.C. A RECEIPT OF CERTIFIE MAILING AND THE CERTIFICATION/ATTESTATION OF MAILING	D			
Is this project "Closely Related" to other SDCI construction permits/projects? © Yes No List all "Closely Related" SDCI construction Permit Numbers		17			
	ISSUANCE.				
Is this project associated with a Short Plat or Subdivision? No SDCI MUP Number Total Site Area sf	5. DEVIATIONS FROM THE APPROVED DRAINAGE AND WASTEWATER CONTROL PLAN REQUIRE A FORMAL POST-SUBMITTAL REVISION FOR PLAN REVEW AND APPROVAL POST-SUBMITTAL REVISIONS MUST BE SUBMITT				
Total Existing Hard Surface Areasf → Total New plus Replaced Hard Surface (NPRHS) Areasf →	APPROVAL POST-SUBMITTAL REVISIONS MUST BE SUBMITT ELECTRONICALLY THROUGH THE SDCI PROJECT PORTAL.	ED			U IN
Total New and/or Replaced tawa and Landscaping					
Total Closely Related and/or Short Plat/Subdivision NPRHSsF : Ф	AS-BUILT MEASUREMENTS / NOTES				
Undisturbed and Protected Site Area Was the project lot created or reduced in site after Jan 1, 2016?	THIS SECTION IS TO BE COMPLETED AFTER THE DRAINAGE, WASTEWATER, AND SIDE SEWER FEATURES HAVE				
Site information Note: if required for your project, reference the Preliminary Assessment Report (PAR) to complete this section. If the total	BEEN INSTALLED. FOR INSTRUCTIONS TO PREPARE THE AS-RUILT PLAN SEE				
areas proposed are different from those provided in the PAR, requirements may change. Approved Point of Stormwater Discharge	SDCI TIP #504. SDCI SIDE SEWER AND DRAINAGE PERMIT #				
Drpinage Basin Is the downstream drainage system considered Capacity Constrained by SPU?	SUCI SIDE SEWER AND DRAINAGE PERMIT #				
Approved Point of Wastewater Discharge	MEASUREMENTS IN THE RIGHT-OF-WAY				
Approved Point of Sub-Surface Discharge Select Flow Control Standard Pre-Developed Pasture Standard Peak Control Standard	1. DISTANCE FROM CENTERLINE OF				
Pre-Developed Forest Standard Vetland Protection Standard Existing Conditions Standard None	DOWSTREAM MH TO CENTERLINE OF NEW SERVICE CONNECTION				z
Project will permanently discharge groundwater? Select Required Water Quality Treatment Standard International I	2. SIDE SEWER INTERSECTION				D DRAINAGE AND CONTROL (DWC) PLAN
Total Pollution Generating Hard Surface Areasf	WITH PROPERTY LINE				
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Total Closely Related and/or Short Plat/Subdivision Pollution Generating <u>Persyous</u> Surface Area sf Source Control is required	DISTANCE				шО
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Steep Slope Potential Slide Riparian Corridor Wetland Liquefaction Flood Prone Landfill Known Landslide Fish / Wildlife Pest / Groundwater Monagement Shoreline Habitat	PIPE LINER INSTALLED ON PRIVATE PROPERTY PIPE LINER INSTALLED IN THE RIGHT-OF-WAY				RC RO
Is there soil and/or groundwater contamination on this site? Yes					NT NT
Is infiltration investigation required? Is infiltration on the site feasible?	NOTES FOR PLAN VIEW				
Site Measured Infiltration Rate x Infiltration Rate Correction Factor = 0 Site Design Inf Rate					STANDARD I WASTEWATER CC
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() seattle.gov					
ON-SITE STORMWATER MANAGEMENT PLANTINGS					
PLANTING <u>GENERAL HOTES</u> 1. PLANTS SHALL BE STED ACCORDING TO SUN, SOIL, WIND AND MOISTURE REQUIREMENTS. 2. AT A MINIMUM, PROVISIONS MUST BE MADE FOR SUPPLEMENTAL IRRIGATION DURING THE FIRST TWO GROWING SEASONS					
 AT A MINIMUM, PROVISIONS MUST BE MADE FOR SUPPLEMENTAL IRRIGATION DURING THE FIRST TWO GROWING SEASONS. 					
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E-9 OF THE SEATLE STORWATER MANUAL.					SDCI PERMIT NO.: 6CN
BURGETEINED ALLES, FERNOLO REALTS FOR BORGETEINED AND A I- FOR A LIST OF APPROVED REALTS FOR BORGETEINED/WRAIN GARGEN FACULTES, SEE APPENDIX E, SECTION E-9 OF THE SEATTLE STORMARTER MANUAL VEGETATION CONFERACIO FSELEDTE PLANS MUST ACHEVE 90-PERCENT COVERAGE WITHIN 2 YEARS OR ADDITIONAL PLANTINGS SHALL BE PROVIDED UNESS DESIGNED DY A UDDISED LANGSAFE AROHECT: PROVIDE A MUNMIM OF I PLANT HER EVERY 2 SOLARE FEET OF BIGHETEIN BOTTOM AND SUPED DBE					ADDRESS:
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 A LANDSCAPE MANAGEMENT PLAN SHALL BE DEVELOPED AND IMPLEMENTED. 					
	SSS SAN	ITARY SIDE SEWER			STANDARD
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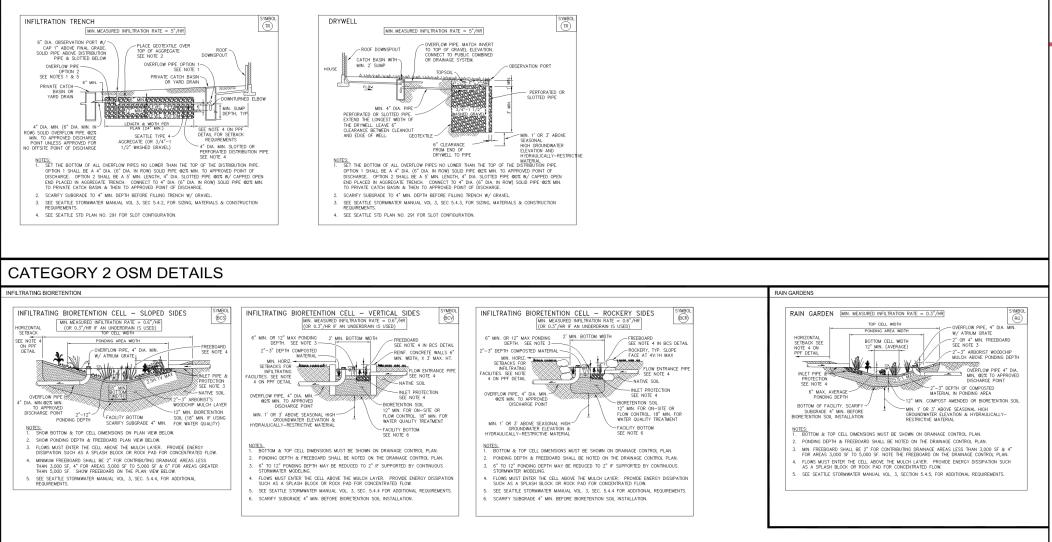


SDCI TYPICAL DETAILS FOR COMMONLY USED BMPS

THE FOLLOWING ARE THE MOST COMMONLY USED DETAIL FOR SINGL-FAMILY RESIDENTIAL AND PARCEL-BASED REVISIONED THE REACTS, SELECT THE APPLICABLE DETAILS AND SHOW THEM HERE ON THE DETAIL STORE AN ADDITIONAL SWEET FOR DETAILS, F A DETAILS AND SHOW THEM HERE ON THE DETAIL MUST BE CREATED BY THE DESIGNER BASED ON THE FORDERS AND DESIGN ORTHON AN THE SEATLE STORMWATER MANUAL AND/OR THE REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF SIDE SWERS (DRANAGE AND WASTENER DESIGNER BASED ON THE FORDERS AND DESIGN AND CONSTRUCTION OF SIDE SWERS (DRANAGE AND WASTENER DESIGNER BASED).

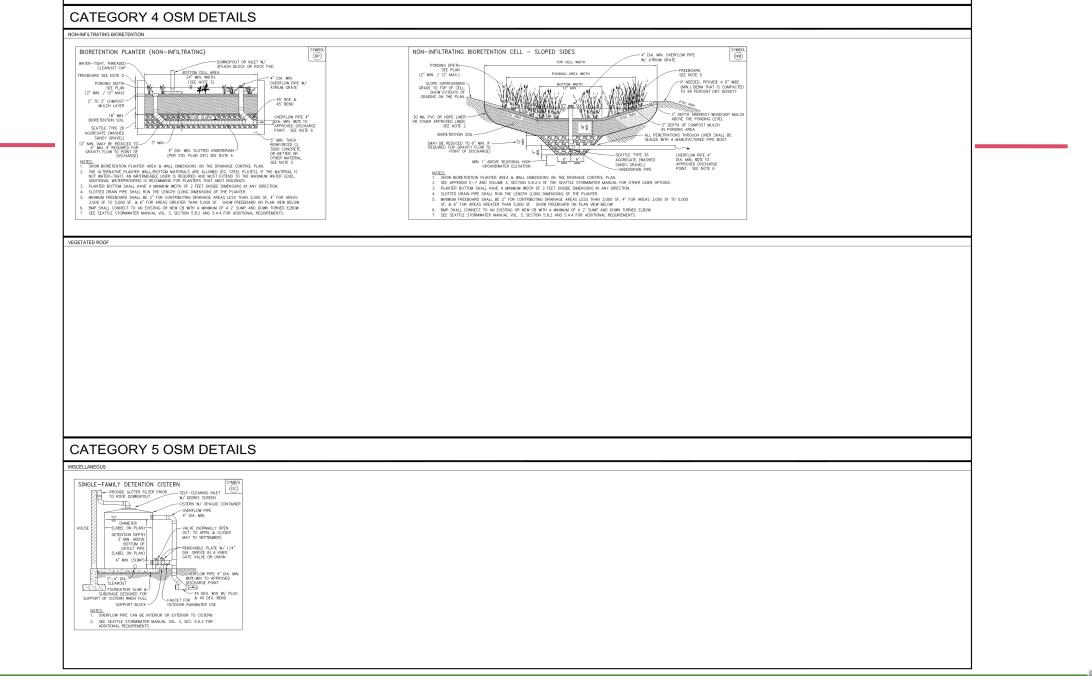
CATEGORY 1 OSM DETAILS

INFILTRATION TRENCHES AND DRYWELLS

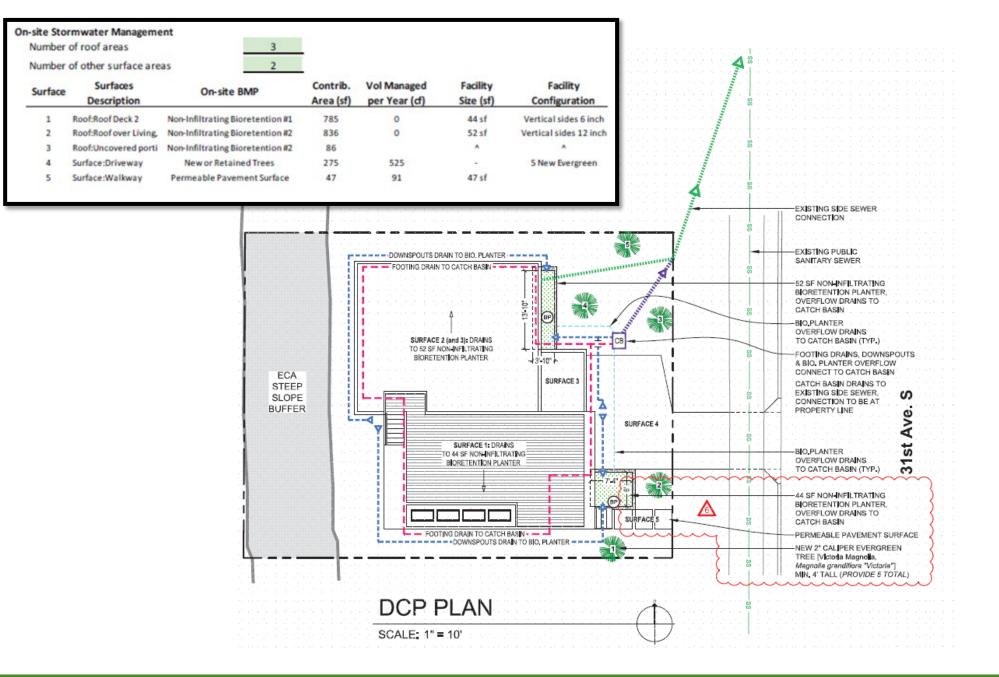






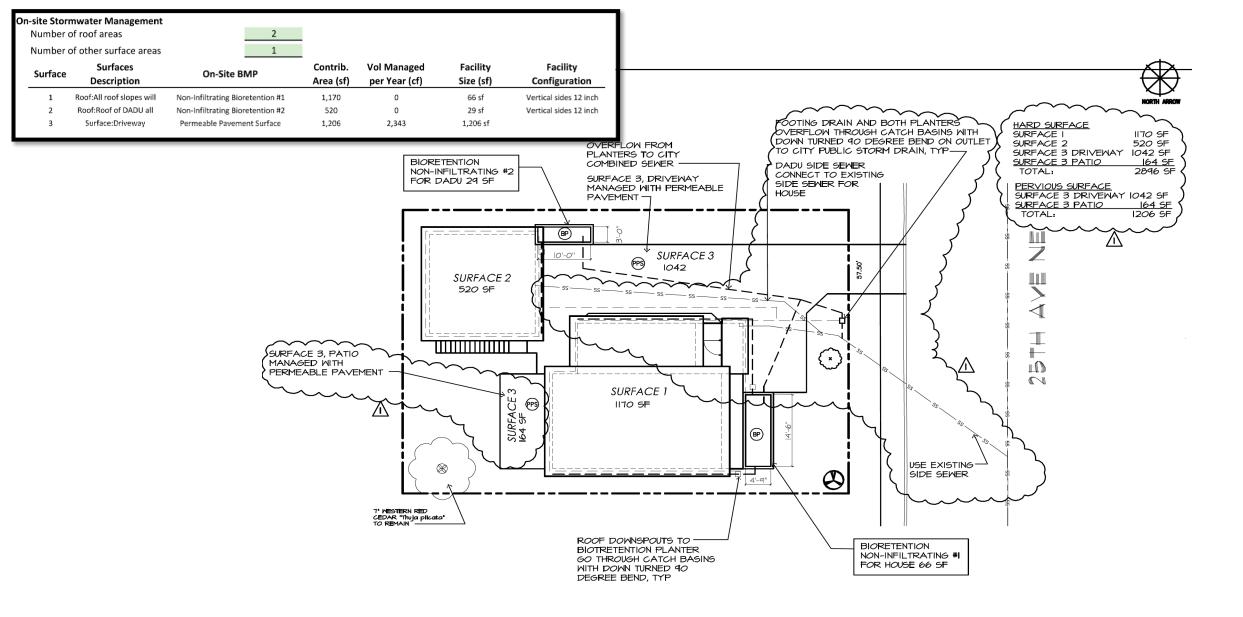










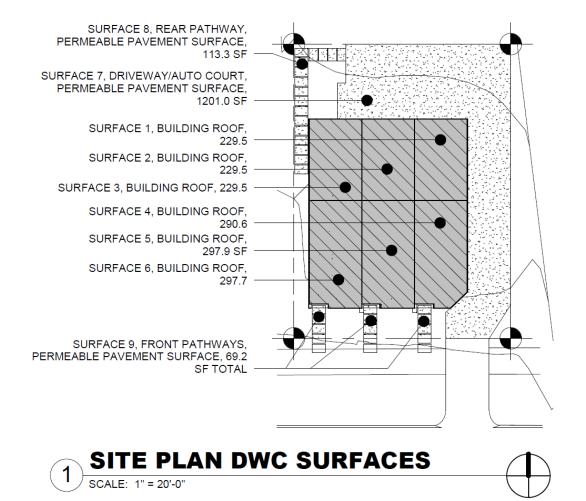


City of Seattle

THE CITY OF SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTION: APPROVED Subject to Errors and Omissions 04/04/2016

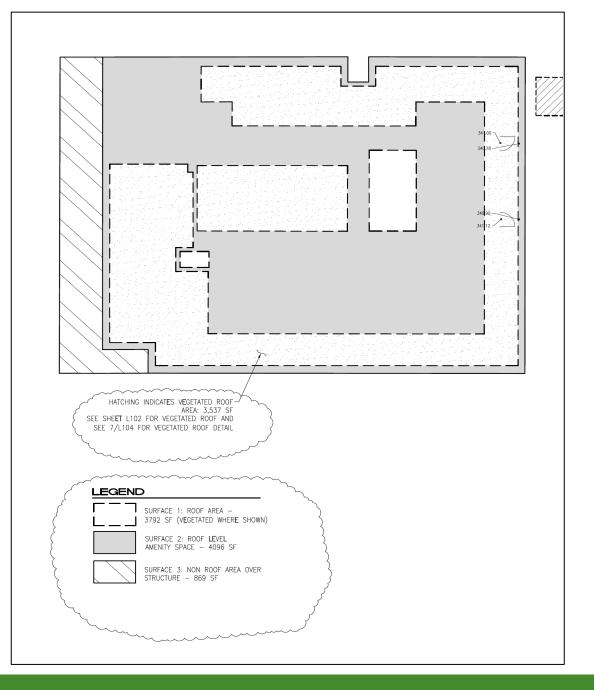


EXAMPLE KEY PLAN













QUESTIONS?

SideSewerInfo@seattle.gov

206-684-5362

SDCI will be hosting regular live Q&A sessions throughout July and August. Please see the SDCI Stormwater Code page for more information and dates.





