

# County of San Luis Obispo Post-Construction Stormwater Guidebook

Draft for Public Review

Presented by:



June 6, 2023

# Webinar Topics

- Introduction & project timeline
- The County's Post-Construction Stormwater Guidebook, the PCRs, and how to comment.
- Updated guidelines for meeting for PR#1, PR#3.
- DMA Sizing guidance.
- Percolation and infiltration testing.
- Structural Control Measure types and setbacks.
- Requirements for subsurface structural control measures.
- Pervious surface runoff coefficients.
- Rainwater harvest and reuse guidelines.
- Updated forms and templates, new example projects.

# Introduction

- The Central Coast Post-Construction Stormwater Requirements (Resolution R3-2013-0002)
  - Required in all areas governed by Municipal Phase II Stormwater Permits.
  - Administered by County of San Luis Obispo, enforced by Central Coast Regional Water Quality Control Board.
- Post-Construction Guidebook
  - Guidance document for complying with the Central Coast PCRs.
  - A tool to support design and documentation for the plan review and permitting process.

# Where we are in the process

- The County is updating the original 'LID Handbook' first issued in 2014.
- Preliminary draft of the new '*Post-Construction Stormwater Guidebook*' is available for public review and comment.
- **Preliminary Draft comment period extended to June 30<sup>th</sup>**
- Final draft to be released late summer, with shortened comment period.
- Final Post-Construction Guidebook released late fall 2023.
  - Virtual webinar planned to coincide with release of final Guidebook.

# How to comment

- Download the preliminary draft word file, comment directly within the document.
- Email your comments embedded in the word document or provide general comments.
- Contacts:
  - [Stormwater@co.slo.ca.us](mailto:Stormwater@co.slo.ca.us)
  - [Mattv@wallacegroup.us](mailto:Mattv@wallacegroup.us)

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# PR#1 Sizing Guidance

- Minimum sizing criteria.
- Table 6, page 16.

Runoff Reduction Strategy	Guidelines for Runoff Volume
<b>Direct roof runoff into cisterns or rain barrels for reuse.</b>	Minimum 100-gallon volume for collection.
<b>Direct roof runoff to vegetated areas away from foundations and footings.</b>	Minimum 10% of roof area directed to vegetated areas.
<b>Direct runoff from sidewalks, walkways and/or patios onto vegetated areas.</b>	Minimum 10% of flatwork area drainage directed to vegetated areas.
<b>Direct runoff from driveways and/or parking lots onto vegetated areas.</b>	Minimum 10% of flatwork area drainage directed to vegetated areas.
<b>Construct flatwork with engineered pervious/permeable surfaces.</b>	Minimum 10% of flatwork area constructed with permeable surfaces.

## PR #2: Source Control BMPs

- Source Control: Elimination of a pollutant at its source, preventing its migration into stormwater.
- How will the site design and use prevent potential pollutants from being exposed to stormwater?
- New checklist provides clear examples of source control measures in checklist format (Table 12 of SWCP template)





# PR #3: Opportunities and Constraints Analysis

- County is required to have applicants document opportunities and constraints for projects PR#3 and above.
- Applicants must identify opportunities and constraints for LID Stormwater controls.
  - *Why? Integrating passive site design measures, not engineered structural control measures.*
- What are the opportunities and constraints?

# PR#3 Opportunities & Constraints Analysis

- Opportunities and Constraints Summary Table.
- Table 8, page 25.
- Longer opportunities and constraints checklist integrated into the SWCP template (required for PR#3).

Opportunities and Constraints
The following site characteristics should be considered as part of the project opportunities and constraints analysis.
<b>Existing Vegetation</b> <ul style="list-style-type: none"> <li>• Existing, high-quality vegetation and trees are identified. Site disturbance at these locations during construction can be prevented by protective fencing.</li> </ul>
<b>Survey and Site Topography:</b> <ul style="list-style-type: none"> <li>• Integrate existing drainage patterns into the site design where possible. Prioritize existing, natural low-spots and sumps for infiltration and drainage features. Prioritize existing high spots for placement of structures or hardscapes, allowing runoff to naturally drain to low lying areas for treatment.</li> </ul>
<b>Soil Analysis:</b> <ul style="list-style-type: none"> <li>• Identify the locations of different hydrologic soil groups on site. Verify with soil borings and investigation report. Consider LID and SCM placement where soil supports infiltration (soil groups A and B). Consider hardscape placement where soils discourage infiltration (soil groups C and D).</li> </ul>
<b>Geotechnical Analysis:</b> <ul style="list-style-type: none"> <li>• Utilize information from soil borings and any geotechnical analysis to determine location that are most suitable for infiltration (based on subsurface materials encountered) and locations with erosion hazards and landslide hazard that should be avoided.</li> <li>• Determine the groundwater table elevation (including seasonally high and historically high) to ensure appropriate setbacks can be maintained.</li> </ul>
<b>Setbacks:</b> <ul style="list-style-type: none"> <li>• Establish setbacks and buffer zones surrounding restricted and/or sensitive areas. Identify areas where SCM cannot be constructed due to setback requirements. Examples include existing and proposed building foundations, municipal water wells, private water wells, septic systems, flood zones, easements, etc.</li> </ul>
<b>Hydrologic Features:</b> <ul style="list-style-type: none"> <li>• Identify on-site and off-site waterways and drainage infrastructure including locations where stormwater runoff may impact the site.</li> </ul>
<b>Pollutants of Concern:</b> <ul style="list-style-type: none"> <li>• Identify areas where future or existing site operations could generate potential pollutants and locations where contaminated soil or historic pollution sources may be present.</li> </ul>
<b>Construction Footprint:</b> <ul style="list-style-type: none"> <li>• Identify locations where existing vegetation or highly permeable soils can be protected from construction activities such as stripping, over-excavation, compaction or stockpiling during construction.</li> </ul>

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# Drainage Management Area (DMA) Sizing Guidance

- Guidelines for sizing DMAs based on project type and size.
- If you believe that your entire project is one DMA, this table is for you.
- Table 12, Page 39.

Decentralized Drainage Management Area Guidelines	
The following guidelines are recommended for ensuring an appropriately decentralized stormwater management approach.	
<b>Single-family Residential Project DMAs (including parcels and access roads/driveways):</b>	
<ul style="list-style-type: none"> <li>• Minimum of three (3) DMAs for sites less than one (1) acre in total area.</li> <li>• Each DMA less than five (5) acres in total area.</li> <li>• Each DMA less than one (1) acre total impervious area.</li> <li>• Each DMA less than ten (10) individual residential lots.</li> <li>• Each DMA should avoid comingling of runoff from multiple land uses where feasible.</li> <li>• DMAs with access roads should include ¼ mile or less of roadway.</li> <li>• DMAs should be no less than 250 square feet or 2% of the project site.</li> </ul>	
<b>Commercial, Industrial, Multi-family residential projects (including public improvements):</b>	
<ul style="list-style-type: none"> <li>• DMA should be land-use specific (i.e. parking, rooftop, access roads, equipment/processing areas.)</li> <li>• Each DMA less than three (3) acre total area.</li> <li>• Each DMA less than one (1) acre total impervious area.</li> <li>• DMA should be no less than 250 square feet or 2% of the project site.</li> <li>• Each DMA should avoid comingling of runoff from multiple land uses where feasible.</li> </ul>	
<b>Roadway projects (public improvements only):</b>	
<ul style="list-style-type: none"> <li>• DMA for local roadways ¼ mile or less.</li> <li>• DMA for collector roadways 1/8 mile or less</li> <li>• DMA for arterial roadways 1/8 mile or less.</li> </ul>	

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# Percolation and Infiltration Testing

- Previous handbook lacked guidance and clarity on what testing methods were appropriate, number of tests required.
- New requirements align with County's Public Improvement Standards.
- Incorporates factors of safety for some types of SCMs.

# Percolation and Infiltration Testing

- Table 9, Page 28

SCM Type	Test Method	Minimum Number of Tests	Minimum Factor of Safety
<b>Bioretention</b>	Percolation (converted via Porchet Method)	3 per site 1 per SCM	FS = 1
	Infiltration (Ring Infiltrometer)	3 per site 1 per SCM	
	Hydrologic Soil Group (standardized rates)	N/A (borings only)	
<b>Surface Infiltration</b>	Percolation (converted via Porchet Method)	3 per site 1 per SCM	FS = 2
	Infiltration (Ring Infiltrometer)	3 per site 1 per SCM	
	Hydrologic Soil Group (standardized rates)	N/A (borings only)	
<b>Underground Infiltration</b>  <i>(infiltration trench, dry well, chamber infiltration system, etc.)</i>	Percolation (converted via Porchet Method, unless dry well)	3 per site 1 per SCM	FS = 3*
	Infiltration (Ring Infiltrometer)	3 per site 1 per SCM	
	Hydrologic Soil Group (standardized rates)	HSG rates not allowed to be used in design of underground SCMs	

\* Where surface biofiltration is provided directly upstream of an underground infiltration SCM, a minimum factor of safety of 2 is permissible.

# Percolation and Infiltration Testing

- Percolation testing requires use of Porchet Method
- Equation 7, page 60

## *Equation 7: Porchet Method*

$$I_t = \frac{\Delta H(60r)}{\Delta t(r+2H_{avg})}$$

Where:

$$\Delta H = H_o - H_f$$

$H_o = D_T - D_o$ ;  $D_T$  (total depth of test hole);  $D_o$  (initial depth to water)

$H_f = D_T - D_f$ ;  $D_f$  (final depth to water)

$r$  (test hole radius)

$\Delta t$  (time interval)

$$H_{avg} = \frac{H_o + H_f}{2}$$



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# Structural Control Measure (SCM) Types

- Clarity on which stormwater control measures are recognized and accepted by the County
- Consistency in naming and classifying SCMs
- SCMs allowed in the County Right-of-Way
  - *Biofiltration*
  - *Bioretention*
  - *Bioswales*
  - *Roadside infiltrators (per County Public Improvement Standards)*

# Structural Control Measure (SCM) Types

- Table 13, Page 40
- Partial table shown on this page

SCM Type	Description	Key Characteristics	Infiltration Strategy
<b>Biofiltration/ Bioretention</b>	Vegetated feature that filters stormwater through a specialized soil media and includes aggregate subsurface layer to enhance storage or infiltration. Biofiltration includes an underdrain for discharges where infiltration rates are poor. Allows for inundation of vegetated areas during storm runoff.	<ul style="list-style-type: none"> <li>• At-grade, no slope.</li> <li>• Vegetated (50%+)</li> </ul>	Indirect infiltration via aggregate subsurface layer and native soil bed.
<b>Bioswale</b>	Vegetated feature with up to 5% slope that conveys stormwater and provides moderate filtration by vegetation. May or may not include specialized soil media. Design includes gently sloped flow paths and dense vegetation to promote stormwater surface filtration and velocity reduction by vegetation (settling).	<ul style="list-style-type: none"> <li>• Vegetated to minimum 50%</li> <li>• No retention volume credit.</li> </ul>	No infiltration credit. Credit applied for treatment.
<b>Filtration Device</b>	A flow-through structure or product designed to capture and retain sediment, leaf litter, trash, and coarse particles. Typically accepts runoff from road or a single land use paved area.	<ul style="list-style-type: none"> <li>• Below-grade.</li> <li>• Non-vegetated.</li> <li>• No retention volume credit.</li> </ul>	No infiltration.

# Structural Control Measure (SCM) Setbacks

- Table 15, Page 46
- Table identifies *minimum* setbacks
- Also includes depth to groundwater

SCM Type	Setback	Minimum Distance
<b>Infiltration feature, infiltration basin.</b> <i>(Including dry wells, underground infiltration chambers and roadside infiltrators.)</i>	Property line	10 feet
	Water well	150 feet
	Structural foundation (buildings or walls)	10 feet <sup>(a)</sup>
	Basements	100 feet upslope, 20 feet downslope
	Onsite wastewater treatment systems (all components)	150 feet
	Underground storage tanks	100 feet
	Road easements	10 feet from edge of easement width <sup>(c)</sup>
	Descending slopes or bluffs	100 feet <sup>(a)</sup>
	Reservoirs, ponds, lakes	100 feet
	Seasonally high groundwater <sup>(b)</sup>	10 feet
	Streams, creeks, or springs	200 feet
	<b>Biofiltration, bioswale, pervious pavement, bioretention.</b>	Property line
Water well		100 feet
Structural foundation		5 feet <sup>(a)</sup>
Basements		100 feet upslope, 20 feet downslope <sup>(a)</sup>
Onsite wastewater treatment systems (all components)		100 feet
Underground storage tanks		50 feet
Road easements		10 feet from edge of easement width <sup>(c)</sup>
Descending slopes or bluffs		50 feet <sup>(a)</sup>
Reservoirs, ponds, lakes		50 feet
Seasonally high groundwater		10 feet
Streams, creeks, or springs		50 feet
Streams, creeks, or springs		50 feet

*(a) Setback may be modified with site specific certification from geotechnical or structural engineer.*

*(b) Seasonally high groundwater is the highest elevation of the water table during the wettest season of the year with above average precipitation. The depth should be determined using historical records over the most recent 5-year period.*

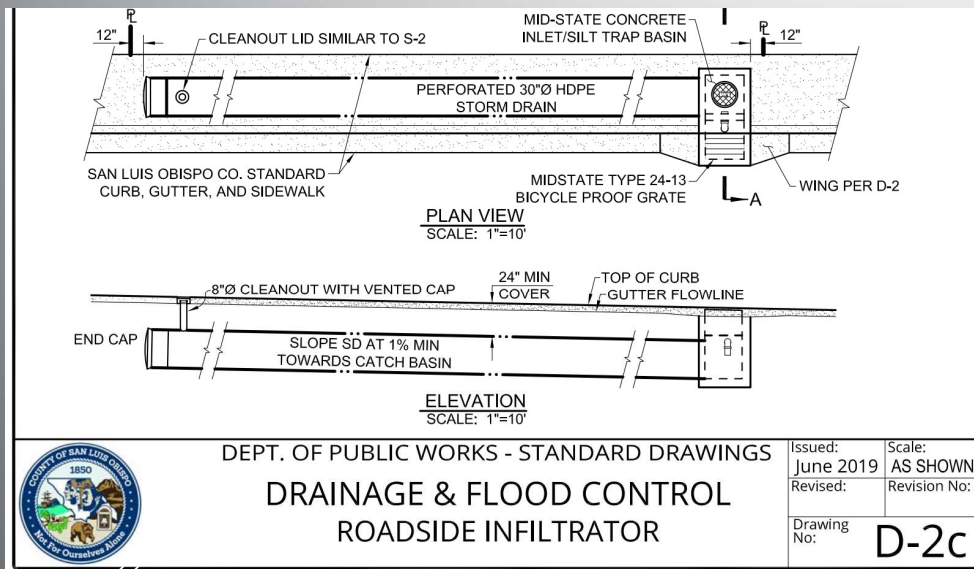
*(c) Setback applies only to features managing runoff from private improvements.*

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# Subsurface Structural Control Measures

- Chapter 5, section g.
- Proprietary systems (e.g. Stormtech, Contech)
- Dry wells and roadside infiltrators



# Subsurface Structural Control Measures

- Chapter 5, section g.
- Opportunities and Constraints Checklist
  - Justify why at-grade LID strategies will not be used
- Pretreatment requirements
  - *Minimum 30% of PR#2 runoff volume for entire project must be managed through at-grade LID strategies*
  - *At-grade LID facilities can be located within a DMA separate from the subsurface SCMS*
  - *Full treatment for PR#2 must be achieved upstream of the subsurface SCM*

# Subsurface Structural Control Measures

- Chapter 5, section g.
- Identifies requirements for geotechnical reports and inspection ports
- Reiterates Class V Injection Well requirements
- Identifies groundwater setbacks (Table 17, page 52)

<b>Infiltration Rate</b>	<b>Minimum setback to seasonally high groundwater</b>
<b>&lt;1 minute per inch</b>	50 feet
<b>1-4 minutes per inch</b>	20 feet
<b>&gt;5 minutes per inch</b>	10 feet



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# Pervious Surface Runoff Coefficients

*Equation 4: Impervious ratio (i) to Runoff coefficient 'C' equation.*

$$0.858i^3 - 0.78i^2 + 0.744i + 0.04 = \text{Runoff Coefficient C}$$

Where  $i$  = the fraction of the DMA that is impervious

*Equation 5: Retention volume calculation.*

$$\text{Runoff Coefficient C} \times \text{Required 24-hour rainfall depth} \times \text{Retention Tributary Area} = \text{Retention Volume}$$

# Pervious Surface Runoff Coefficients

- Table 19, page 59
- Provides runoff coefficient “C” for commonly used surfaces
- C values apply where *surfaces are underlain by natural site soils with minimal or no compaction*

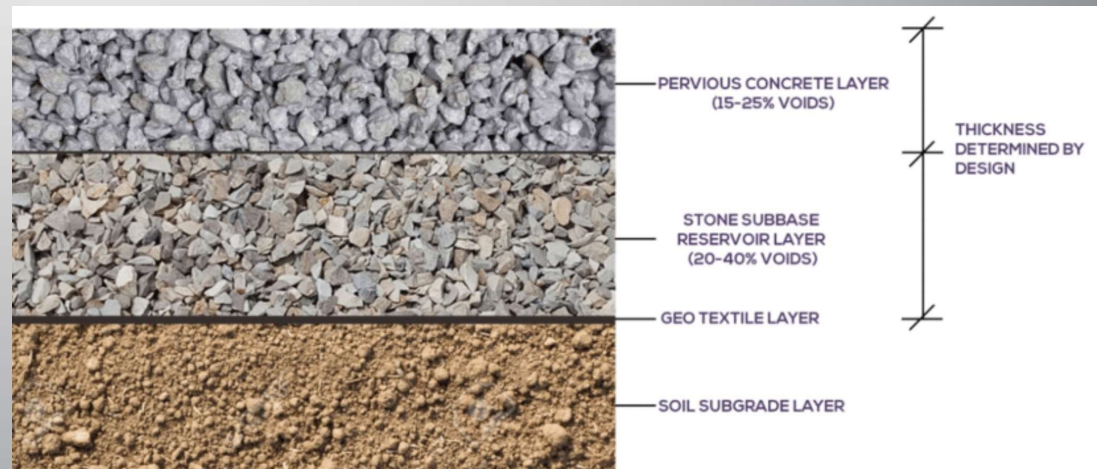
Surface Category		Surface Type	Post-Construction Runoff Coefficient (C)
Impervious	Impervious Surfaces	Roofs, concrete, asphalt, grouted pavers.	0.89
		Grouted rock	0.89
		Decomposed granite with binder	0.89
		Dense graded aggregate or dense-graded road base (e.g. Class II, red rock)	0.89
Pervious	Natural-Pervious	Compacted soil, HSG A or B (e.g. unpaved roads/parking)	0.15
		Compacted soil, HSG C or D (e.g. unpaved roads/parking)	0.30
		Decomposed granite without binder	0.30
		Landscape rock (e.g., cobbles, river rock, pea gravel, etc.)	0.10
	Engineered Pervious Surfaces (designed with sufficient depth to retain the design storm)	Permeable or porous pavers	0.00
		Pervious concrete or asphalt	0.00
		Open graded aggregate or open graded road base pathway, roadway, or parking (e.g., Class I and Class II permeable, No. 57 stone)	0.00
	Other Pervious Surfaces	Bricks or solid pavers over sand base	0.50
Artificial turf over subgrade		Use “C” value for subgrade	

**Notes:**  
*Suggested C values only apply where surfaces are underlain by natural site soils with minimal or no compaction. Surface installations underlain by concrete or impermeable liners are considered impervious. Surface installations underlain by heavily compacted soils should use the C value for compacted soil.*

# Pervious Surface Runoff Coefficients

- Table 19, page 59
- Engineered Pervious Surfaces
  - *Must have sufficient depth to retain the design storm*
- Note that “Correction Factor” values shown in Table 11 are to be used for alternative compliance “EISA” only

Engineered Pervious Surfaces (designed with sufficient depth to retain the design storm)	Permeable or porous pavers	0.00
	Pervious concrete or asphalt	0.00
	Open graded aggregate or open graded road base pathway, roadway, or parking (e.g., Class I and Class II permeable, No. 57 stone)	0.00



Source: ResearchGate.net

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# Rainwater Harvesting and Reuse

- Table 14, page 45
- Clarifies how rainwater harvesting and reuse systems can be used to meet PCR requirements

Planned Drawdown / Reuse Period	Sizing Requirements to meet PCRs	Volume credit applied to County flood control standards
Under 48 Hours (Less than 2 days)	85 <sup>th</sup> percentile storm. Meets PR#1, PR#2, PR#3.	100% stored volume.
Up to 72 hours (Up to 3 days)	85 <sup>th</sup> percentile storm x 1.2 <i>Meets PR#1, PR#2, PR#3.</i>	100% stored volume.
Up to 7 days	85 <sup>th</sup> percentile storm x 1.2 <i>Meets PR#1, PR#2, PR#3.</i>	100% stored volume.
Up to 14 days	85 <sup>th</sup> percentile storm x 1.2 <i>Meets PR#1, PR#2, PR#3.</i>	0% stored volume.
Greater than 14 days	85 <sup>th</sup> percentile storm x 1.2 <i>Meets PR#1, PR#2, PR#3.</i>	0% stored volume.

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# Forms and Templates

- Forms and templates updated to be consistent with new guidebook
- Stormwater Control Plan (SWCP) Application
- Stormwater Control Plan (SWCP) Template

<b>Post-Construction Stormwater Control Plan for:</b>
Name of Project

[Bracketed red text throughout this template is instructional and should be replaced with project specific information.]

**DO NOT DELETE ANY SECTION OR TABLE.**

Where information is not pertinent or applicable to the proposed project indicate 'Not Applicable.']



# Forms and Templates

- Plant Palette Tables (Appendix D)
  - Inland and Coastal
  - Commercial and Residential
- Intended to be used directly on design drawings and in SWCPs
- See Appendix D for:
  - *Longer plant lists*
  - *Plant types allowed in the ROW*

*Table D-6: Flowering Commercial Palette (Inland)*

Common Name	Scientific Name	Exposure	Native	Zone	Description	Type	Size
<b>Sky Lupine</b>	<i>Lupinus nanus</i>	Full Sun	Yes	B	Small purple flowers. Annual spring wildflower which prefers lean soil and will self-sow.	Annual herb	Seed
<b>Yarrow</b>	<i>Achillea millefolium</i>	Sun-Part Shade	Yes	A, B	Tolerates regular watering, occasional summer watering required inland. Can be mowed, handles foot traffic.	Perennial, Upright herb	1-gallon or Seed
<b>California Wild Rose</b>	<i>Rosa californica</i>	Part Shade	Yes	A, B	Small pink flowers. Tolerates wide variety of soils, seasonal flooding, some drought but likes some moisture.	Shrub	5-gallon
<b>Western Redbud</b>	<i>Cercis occidentalis</i>	Sun	Yes	B	Pink/red blooms in spring prior to leaf bud out. Small tree or large shrub. Tolerates clay, winter wet, drought.	Tree	15-gallon

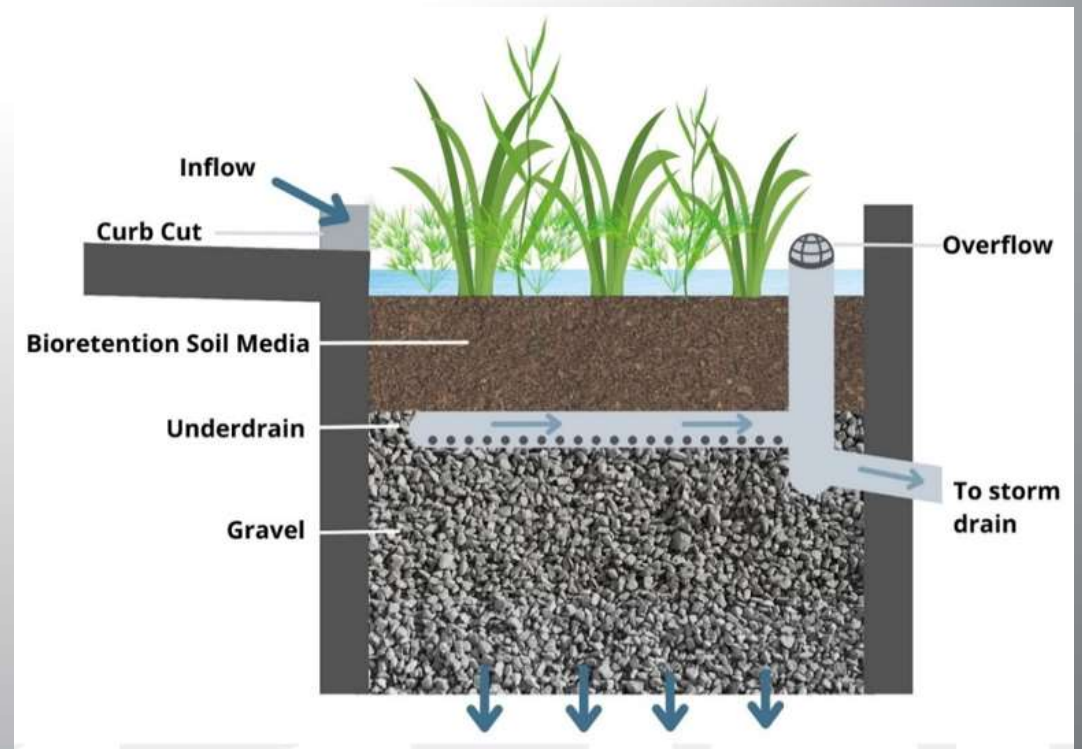
# Forms and Templates

- Inspection Checklists (Appendix F)
  - Detention and Bioretention forms
- Construction phase and ongoing O&M (partial checklist shown)

<i>Inspection Details</i>	Inspection Date:		Inspector Name:
	<input type="checkbox"/> PW Permit <input type="checkbox"/> P&B Permit		Permit Number:
	CCM Case #:		SCM #s:
	SCM Type: <input type="checkbox"/> Detention Basin <input type="checkbox"/> Infiltration/retention Feature <input type="checkbox"/> Media Filter <input type="checkbox"/> Treatment Vault		
	Inspection Type: <input type="checkbox"/> Construction Active (Interim) <input type="checkbox"/> Construction Complete (Final) <input type="checkbox"/> Post Construction – Annual Inspection		
<i>Excavation</i> <input type="checkbox"/> In progress <input type="checkbox"/> Complete <input type="checkbox"/> N/A	<input type="checkbox"/> Soil subgrade visible: _____	<input type="checkbox"/> Depth to top of soil: _____	<input type="checkbox"/> Subgrade soils uncompacted: _____
<i>Geotextile Fabric</i> <input type="checkbox"/> In progress <input type="checkbox"/> Complete <input type="checkbox"/> N/A	<input type="checkbox"/> Types used: _____ <input type="checkbox"/> Field Material slips verified: _____	<input type="checkbox"/> Depth to fabric: _____ _____	<input type="checkbox"/> Placement locations: <input type="checkbox"/> Bottom _____ <input type="checkbox"/> Sidewall _____
<i>Structures</i> <input type="checkbox"/> In progress <input type="checkbox"/> Complete <input type="checkbox"/> N/A	<input type="checkbox"/> Inlet Structure: _____ _____	<input type="checkbox"/> Outlet Structure: _____ _____	<input type="checkbox"/> Overflow Structure: _____ _____

# Example Projects

- In Progress
- Will include calculations and exhibits
- Selected for common design issues
- Provide feedback if specific calculation types would be helpful



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# Questions?

Comments will be accepted through June 30.

Thank you for attending, we value your input!