Decentralized Stormwater Structural Control Measures

Decentralized Stormwater Structural Control Measure (SCM) **Description:** System is small to moderate in size and accepts runoff from a single land use **drainage area less than 10.0 acres.**	
Structural Control Measure Type	**Description**
Biofiltration (***Examples**: Lined rain garden.*)	• Vegetated SCM that filters stormwater through a specialized soil media and discharges via an underdrain. • Little to no overflow of captured runoff volume. • Outlet design requires surface ponding prior to surface outflow typically with a maximum ponding depth of 6 inches. • Site designs use soil media ideally 18-24 inches in depth to enhance filtration processes to retain pollutants. • **Treatment Process:** Bio-Chemical Cycling, Particle Capture • **Vegetation:** Yes • **Location:** Above Ground • **Type:** Decentralized
Bioretention (***Examples**: Rain garden with infiltration*)	• Vegetated retention structure where the base of the SCM is not lined and allows for infiltration to unsaturated zone. • Designs may or may not include an underdrain to discharge some fraction of treated water. • Design will include either passive surface outlet or piped overflow to allow retention and ponding. • Design will include soil media ideally 18-24 inches in depth to enhance filtration processes to retain pollutants. • May include aggregate subsurface layer to enhance storage or infiltration. • Vegetation types must be able to tolerate stormwater ponding and drought conditions. • **Treatment Process:** Bio-Chemical Cycling, Particle Capture, infiltration • **Vegetation:** Yes • **Location:** Above Ground • **Type:** Decentralized

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Bioswale *(**Examples**: Vegetated swale, Grass Swale, Grass Filter Strips, Vegetated Buffer Strips, Bioslopes)*	• Flow through areas with dense vegetation coverage (>80%) that allows for inundation of vegetated areas during storm runoff. • Design includes gentle sloped flow paths and dense vegetation to promote stormwater surface filtration and velocity reduction by vegetation (settling). • Infiltration performance and runoff volume reduction is variable. • Size and application of bioswales can vary. • **Treatment Process:** Bio-Chemical Cycling, Infiltration • **Vegetation:** Yes • **Location:** Above Ground • **Type:** Decentralized
Filtration Device *(**Examples**:Catch basin inserts, Drain inserts/inlet filters, FloGard Filter, Stormexx, Ultra-Drain Guard.)*	• A flow-through structure designed to capture and retain sediment, leaf litter, trash, and coarse particles. • Sediment capture results in vertical accumulation of material at base of reservoir with regular material cleanout required. • Minimal to no stormwater volume reduction occurs. • Water quality improvement due to pollutant particle capture within SCM. • Typically accepts runoff from road or a single land use parking lot • **Treatment Process:** Particle Capture and Media Filtration • **Vegetation:** No • **Location:** Below grade • **Type:** Decentralized
Infiltration Feature *(**Examples**: Infiltration Trench, Dry Well, Infiltration Trench, French Drain, Stormtech Chambers)*	• Structure designed to retain stormwater and infiltrate into unsaturated zone. • Land surface modified to sustain maximum infiltration rates. (Native soil may be replaced with highly permeable material such as coarse drain rock.) • Vegetation is absent. • **Treatment Process:** Infiltration • **Vegetation:** No • **Location:** Above Ground or Below Ground • **Type:** Decentralized

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Pervious Pavement *(**Examples:** Porous Asphalt, Pervious Concrete, Porous Aggregate, Pervious Pavers, Permeable Pavers)*	• Durable, sustainable materials that create a pervious surface that allows stormwater to infiltrate into the underlying soil. • SCM can include an underlying reservoir to increase retention capacity and infiltration rates. • Constructed to minimize the volume of stormwater generated and routed downgradient or offsite. • Typically used for parking lots, sidewalks, driveways or other impervious surfaces • **Treatment Process:** Infiltration • **Vegetation:** No • **Location:** Above Ground • **Type:** Decentralized
Settling Basin *(**Examples**: Settling Pond, Sediment Basin, Decant Pond, Concrete Forebay)*	• Structure designed to detain stormwater volumes and settle particulate pollutants prior to outflow. • Pollutant load reductions occur; but no volume reduction due to impermeable base. • Often placed at the inlet of another structural SCM to pre-treat inflowing stormwater. • Large scale settling basin draining a mixed land use area can be classified as a treatment vault • **Treatment Process:** Particle Capture • **Vegetation:** No • **Location:** Above Ground or Below Ground • **Type:** Decentralized

Please direct questions and requests for additional information to

Planning & Building Stormwater Program Manager: (805) 781-5602 or Stormwater.scm@co.slo.ca.us