

Columbus' Stormwater Drainage Manual

Summary of Changes made in April 2012 Draft Manual

Introduction –

Minor edits & text changes.

Applicability – removed “change in land use” and added de minimis exception. This exception is for development that disturbs less than 10,000 square feet and adds less than 2,000 square feet of impervious surface.

Variance Process-added to manual. Created new variance for Downtown Development.

Added definition “ODOT L&D Manual – ODOT Design Manual in effect as of the date of the effective date of the SWDM or any applicable revisions or amendments.

Changed definition of *Stream* — Streams shown on USGS 7.5 minute Quad maps as solid or dashed blue lines or a surface watercourse with a well-defined bed and bank, either natural or artificial, which confines and conducts continuous or periodic flowing water.

Added following definition:

“Substantially Affect Stormwater Drainage - Any change to the site drainage characteristics including, but not limited to, removal of existing or installation of new collection and conveyance features such as inlets, curb and gutter, underdrains, or the alteration of existing site grading that changes drainage direction or volume.”

Part 1 Intro – Stormwater Policy and Facility Design Criteria

No change.

Section 1 – Preservation and Protection

Deleted reference to Tier I & Tier II stream

1.3.1, Stream Delineation – Changed calculation criteria for SCPZ (Stream Corridor Protection Zone) consistent with ODNR Rainwater and Development Manual

1.3.1 – deleted Table 1-1

1.3.3 - edited language regarding stormwater outfalls

1.4, Floodplain Preservation and Developments within Special Flood Hazard Areas – Change of floodplain administration from Development Department to Title 11, Water Sewer and Electric Code, Chapter 1150 Flood Plain Management.

Section 2, Stormwater Conveyance

Minor edits for clarity and consistency

2.14, Agricultural Field Tile System – added reporting of illicit discharges from field tiles consistent with OEPA-issued NPDES permit.

2.2.2.1 – Changed IDF (Intensity Duration Frequency) Curve

Changed Tables 2-9, 2-10 and references to Pavement Design Criteria (Manual Section 2.3) as suggested by Transportation

2.3.3.3, Bankfull Design Considerations – added exceptions

2.3.6, Level Spreaders – changed design criteria to follow recent, accepted design methods; simplified, deleted much of previous criteria.

Section 3, Stormwater Controls

Minor edits

3.2. Added exemption for stormwater quantity controls for certain developments that are located within 1000 feet of the Scioto or Olentangy Rivers

3.2.2 Edited language regarding redevelopment; redevelopment is addressed in Applicability section of Manual

3.2.3 Added language regarding Green Infrastructure

3.2.4.1, General Requirements for All Detention Basins, Outlet Facility and Outfall Protection Requirements

3.2.5, Parking Lot Storage

3.2.6, Underground Storage

– changed wording to clarify that orifice smaller than 4-inch diameter requires attention to detail to prevent clogging.

3.2.7, Green Roof Technologies – changed/reduced requirements for green roof acceptance; deleted monitoring requirements

3.2.8 Added section regarding pervious pavement

3.2.9 Added section regarding rainwater harvesting

3.3.1.1, Stormwater Runoff Quality Control – changed references to OEPA CGP (Ohio EPA Construction General Permit)

3.3.2.3, Water Quality Flow (WQ_f) Determination for swales, flow-through proprietary BMPs.

3.3.4.1, Extended Dry Detention Basins – revised design criteria consistent with current OEPA CGP.

3.3.4.3, Constructed Wetlands – clarification minor addition to wetlands criteria consistent with OEPA CGP.

3.3.6.1, Vegetated Swales – minor design and construction edits

3.3.6.2, Vegetated Filter Strips – minor design and construction edits

3.3.6.3, Dry Extended Detention Swales – Revised basin design criteria consistent with current OEPA CGP.

3.3.8, Applicant-Proposed Stormwater Controls

– revised/clarified flow-through device design considerations consistent with OEPA CGP

– deleted submittal of proprietary flow-through device design/operation for approval

– clarified water quantity requirements consistent with OEPA CGP

Section 4 – Operation, Maintenance, and Monitoring of Stormwater Controls

Minor edits for clarity

4.1.2, Stormwater Control Facility Maintenance Plan – Clarified maintenance plan requirements consistent with OEPA General Construction Permit.

4.1.4, Stormwater Control Facility Monitoring Requirements – New section required by and consistent with OEPA General Construction Permit (Darby) and Darby accord.

Section 5 – Private and Public Development Review Processes

Changes made consistent with OSS (One Stop Shop) and City reviews.

Clarified requirement(s) for 401/404 and related support submittal.

Section 6 – Stormwater Management Report

Minor edits consistent with other changes in previous sections of SWDM.

6.7, Non-City Submittals/Permits – clarified submittal requirements for 401/404

Section 7 - Stormwater Management Report Approval Submittal Process

Minor edits consistent with OEPA CGP and other changes in previous sections of SWDM.