On-site List Flowchart (2) for Trail and Sidewalk Projects in the ROW v.1.2
2016 Code
Chart 2 of 4

Requirements

Evaluate Category 1 Full Dispersion.
See BMP T5.30 in Volume V of SWMM/WW

Evaluate Category 2 Permeable Pavement Surfaces

Permeable Pavement Surface not required. See Category 3 dispersion, if applicable.

Evaluate (19) and utilize Permeable Pavement Surface BMP.
(MN size 2100sf)
Or proceed to infiltration testing. (18)

Evaluate Category 2 Permeable Pavement Surfaces

Discharges to combined sewer?

No

Yes

>2,000sf permeable pavement within project site possible?

No

Discharges to

Yes

Creek, Wetland,
Small Lake or
groundwater?

Yes

Evaluate Category 2 Permeable Pavement Surfaces

No further infiltration investigation required to meet On-site, Flow
Control, or Water Quality Treatment requirements (17)

Is site within a Landslide-Prone Area?

Yes

No

Is site within a setback above a Steep Slope Area (15)?

Yes

No

Is site within horizontal setbacks (16)?

No to any

Perform Subsurface Exploration & Infiltration Testing (Tables 3.1.14.2 in Volume 3 & Appendix D
Stormwater Manual)

Evaluate Infiltration Feasibility

Is site in a Settlement Prone Area?

Yes

No

Evaluate Dispersal Feasibility

Hard surface flowpath (14) over 100 feet of vegetation possible?

Yes

No

Can sheet flow (14) be directed over a minimum vegetated path of 10 feet?

No

Can concentrated flow (14) be directed over a minimum vegetated path of 25 feet?

No

After consideration of Category 2 BMPs, evaluate Category 3 BMPs of Sheet Flow Dispersion and Concentrated Flow Dispersion

No

Continue.

(14) Delineate sub-basins for all project surfaces by drainage path or BMP that runoff is directed to.

(15) Setback 10 times the height of the ECA steep slope to 500 feet maximum.

(16) Horizontal setbacks include:

- 5 ft from building without basement and 10 ft from basement when infiltrating < 5,000sf hard surface
- 5 ft from building and 10 ft from basement between 5H 1/4
- 100 feet of drinking water supply wells
- Within groundwater protection area
- 10 ft of petroleum, chemical or hazardous waste storage tank of 1,100 gallons or less
- 10 ft of petroleum, chemical or hazardous waste storage tank > 1,100 gallons
- 10 ft of septic field
- 100 feet of contaminated site or abandoned landfill

(17) Infiltration BMPs may be required to meet project point of discharge or Pess Settlement Prone Area requirements.

(18) Permeable pavement surface not required when measured infiltration rate < 0.3 inches/hour.

(19) Evaluation of a site for permeable pavement surfaces includes:

- Recommended maximum surface slope of 6%
- Run-on not to exceed 10% of surface area and dispersed

Page 2
Is measured infiltration rate less than 0.3 in/hr?

Is groundwater or hydraulic restrictive layer within 1 foot of bottom of BMP?

Is runoff from ≥5,000 sf hard surface to be infiltrated on the site? And groundwater or hydraulic restrictive layer within 3 feet of bottom of BMP?

No further infiltration investigation required to meet On-site, Flow Control, or Water Quality Treatment requirements [17]

Evaluate Category 2 Rain Gardens [20]

Discharge to designated receiving water? (11)

Discharges to combined sewer system?

Discharges to Creek, Wetland, Small Lake or groundwater?

Evaluate and utilize Rain Garden BMP (4 sf MIN size)

Rain Gardens, not required. See Category 3 dispersion, if applicable.

Requirements

On-site List Flowchart (2) for Trail and Sidewalk Projects in the ROW v.1.2

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(27)”Sidewalk project” means a project for the creation of a new sidewalk or replacement of an existing sidewalk, including any associated planting strip, apron, curb ramp, curb or gutter, and necessary roadway grading and repair. If the total new plus replaced hard surface in the roadway exceeds 10,000 square feet, the entire project is a roadway project.

(20) Permeable pavement facilities may be allowed, but evaluation is not required. 22.805.070