

Stormwater Treatment Flowchart (4) for Roadway Projects v. 1.2

2016 Code
Chart 4 of 4

Requirements

Analyze Minimum Requirements for Treatment (23) (9) 22.805.030

Check infeasibility (7) when existing surface \geq 35% hard (2) 22.805.060E

Basic Treatment required (25)

High Use?, Intersection ADT 25,000 & 15,000 Excluding primarily pedestrian or bicycle improvements 22.801.090

Also, continue checking for additional stormwater treatment requirements

Plus Oil control treatment

Highway AADT \geq 15,000 or Road AADT \geq 7,500?

Also, continue checking for additional stormwater treatment requirements

No additional treatment requirement

Discharges to fresh water with aquatic life use or uses infiltration for flow control and discharges within 1/4 mile of fresh water with aquatic life use? (24)

No

Plus Enhanced treatment (metals)

(7) Infeasibility applies when adding less than 50% additional hard surface and only to the extent required to make it feasible if:

- Gravity flow not possible
- Major infrastructure needs relocating
 - Gravity pipe \geq 24"
 - Gas, high pressure or $>$ 8"
 - Pressure pipe $>$ 12"
- Underground duct banks and structures for electric, comm or fiber
- Structural foundations for bridges, buildings and tunnels
- Wall foundations if $>$ 6' high or 15' long

(9) \geq 35% existing impervious surface and 5,000sf new PGHS (8):

- If new PGHS adds 50% to the existing hard (2) surface, stormwater treatment required for all PGHS.
- If new PGHS adds less than 50% additional PGHS, stormwater treatment required only for new PGHS. 22.805.060D.2

(23) Minimum requirements for treatment include:

- Use on-site BMPs to the MEF
- Design for volume or flow rate from entire contributing area unless non-polluting runoff can be bypassed.
- Untreated discharge from PGIS to groundwater prohibited

(24) Waterbodies designated for aquatic life use include:

- Creeks and small lakes
- Designated receiving waters that are freshwater 22.801.020A

(25) SPU preferences:

- Bioretention
- Bioretention with underdrain
- Biofiltration
- Filterra
- Wet Vault
- Perfilter MH, vault or CB
- Linear Sand Filter
- API oil /water separator