

## Technical Criteria for Non-LID Treatment Facilities

Non-LID Treatment Facilities may be either tree-box type high-flowrate biofilters or vault-based high-flowrate media filters. Other devices will be approved on a case by case basis.

### General

- Inflow rate is that generated by a continuous rainfall intensity of 0.2 inches per hour.
- Landscape and non-impervious surfaces should be made self-treating or self-retaining and not drain to treatment facilities if feasible.
- Use the runoff factors in Table 4.1 of the City of Rocklin Post-Construction Manual.
- The applicant's Stormwater Control Plan must include as an attachment a letter from the manufacturer stating that the proposed device meets these technical criteria, and the manufacturer will provide a warranty for two years following activation of the facility.

### High-Flowrate Tree-Box Type Biofilters

- Maximum design surface loading rate of 50 inches per hour.
- Precast concrete construction.
- Inlet design to capture flows at least up to the maximum design surface loading rate and to bypass high flows.
- Minimum media depth of 3.5 feet (may be reduced, but maintaining the same media volume, if required because of inadequate head to discharge point).
- Media and facility configuration supports a healthy tree or other vegetation.

### Vault-Based High-Flowrate Media Filters

- Replaceable cartridge filters.
- Maximum design filter surface loading rate of 1 gpm/ft<sup>2</sup>
- Storage volume detains runoff and allows settling of coarse solids prior to filtration.
- Flow through the cartridge filters is controlled by an orifice or other device so that the design surface loading rate is not exceeded.

### Other Non-LID Treatment Facilities

- Applicants wishing to use other non-LID treatment facilities must provide documentation from the manufacturer that the facility will be at least as effective as bioretention facilities described in the City of Rocklin Post-Construction Manual.