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Water Quality Storm Drain Unit Plan Review Checklist

Sediment Control Permit No. _____

SUPPORTING INFORMATION

- ___ ___ ___ Maintenance Easement and Covenant
- ___ ___ ___ Itemized Stormwater Management Construction Estimate.

GENERAL PLAN REQUIREMENTS

- ___ ___ ___ Delineation of outfall or immediate downstream storm drain system.
- ___ ___ ___ Facility and manhole location to allow easy access and maintenance.
- ___ ___ ___ Maintenance access from public right-of-way, minimum width 12 feet, maximum grade 15% if mechanically stabilized, 10% maximum without mechanical stabilization.
- ___ ___ ___ Maintenance easement (must include the unit; any related appurtenances; access points; flow splitting structures; inlet trash racks).
- ___ ___ ___ Loadings for structural design specified on plan (H-20 for vehicular areas).
- ___ ___ ___ Details shown on plan for a specific model.
- ___ ___ ___ Model dimensions – Give all variables.
- ___ ___ ___ If feasible, locate the unit on a lateral or local storm drain line, rather than on a trunk line.
- ___ ___ ___ Gasket detail on plan.
- ___ ___ ___ Give top slab and MH rim elevations.
- ___ ___ ___ Nine (9) inch maximum height for manhole frame.
Secure manhole rim to the top slab (Use WSSC detail S/4.3)
- ___ ___ ___ All inlets draining to the unit must have surface debris trapping devices with openings < 6-inches in diameter unless drainage passes through a flow splitter trash rack before entering the unit. Trash racks on public storm drains are not permitted. Debris trapping devices are to be included in the maintenance easement and covenant documents.
- ___ ___ ___ Do not use as a sediment trapping device.

FORMS AND NOTES

- ___ ___ ___ Standard Notes
- ___ ___ ___ Provide installation/construction instructions
- ___ ___ ___ Provide procedure to seal lift holes
- ___ ___ ___ Maintenance notes

Stormceptor Review Requirements

- ___ ___ ___ Bypass area above the weir adequate to pass Q_{10} .
- ___ ___ ___ Include 24-inch down pipe installation procedure for STC-2400, STC-3600, STC-4800, STC-6000, STC-7200.
- ___ ___ ___ Two manholes are required if there is less than 3-feet of clearance between the drop inlet pipe and the bottom of the top slab.
- ___ ___ ___ If < 4-feet between pipe invert and proposed grade, submit verification from the manufacturer that construction of the unit is possible.
- ___ ___ ___ Show pipe and insert dimensions – pipe type, inverts, exactly one inch difference between the inlet invert and the outlet invert. On a two inlet pipe design, there should be exactly 3-inches difference.
- ___ ___ ___ No inlet/outlet pipe >36 inches without customization of the insert design.
- ___ ___ ___ One inlet and one outlet pipe preferred. Two inlet pipes are the maximum allowed.
- ___ ___ ___ Provide procedure for drop pipe installation.
- ___ ___ ___ Order form with completed sizing information for each unit on plans. Manhole rim elevation specified on the order form.
- ___ ___ ___ Note that dimensional shop drawings are to be approved by the design engineer and accepted by DPS prior to fabrication. The dimensional shop drawings must be reviewed and signed off by the engineer prior to submittal to DPS.

STORMCEPTOR SIZING

- ___ ___ ___ For primary water quality, size for a minimum 80% TSS removal rate using the latest Stormceptor sizing guidelines.
- ___ ___ ___ Total drainage area to the unit shown clearly in the computations.
- ___ ___ ___ Use “Bethesda” or “Frederick” rainfall data, whichever is closest.
- ___ ___ ___ Use “Fine” particle size.

BaySaver Review Requirements

- ___ ___ ___ Sizing computations. For primary water quality, size so that the flow rate of the required water quality volume is at or below the “Low Flow Capacity”. Other sizing may be used if the unit serves as pretreatment only. Do not size per impervious drainage area.
- ___ ___ ___ Show detail of downstream storm drain connection.
- ___ ___ ___ Shop drawing is not required for BaySaver.
- ___ ___ ___ Detail dimensions are accurately reflected in the dimension table on the plan.