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**

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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**

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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.

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**BaySaver Review Requirements**

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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.

9/8/09