City of Torrance
Community Development Department
Building & Safety

PROJECT INFORMATION

_____ _____
SITE ADDRESS CASE NO.

_____ _____
DESIGN ENGINEER/APPLICANT TELEPHONE NO.

_____ _____
OWNER/DEVELOPER TELEPHONE NO.

_____ _____
PLAN CHECKER DATE

_____
PROJECT DESCRIPTION/PROPOSED OCCUPANCY

Your redevelopment project requires the following:

- ❑ **BMP's must be incorporated in project plans for the newly developed area only.**
  Required when an alteration results in an increase of less than 50 percent of the impervious surfaces of the previously existing development, and the existing development was not subject to SUSMP requirements.

- ❑ **BMP's must be incorporated in project plans for the newly developed and existing areas.** Required when an alteration results in an increase of greater than 50 percent of the impervious surfaces of the previously existing development.

SUSMP CORRECTION SHEET AND NOTES

1. Determine and provide the pre and post development pervious and impervious areas created by the proposed development.

POST DEVELOPMENT

Impervious Area _____Acres Percent Impervious _____%
Pervious Area _____Acres Percent Pervious _____%

PRE DEVELOPMENT

Impervious Area _____Acres Percent Impervious _____%
Pervious Area _____Acres Percent Pervious _____%

2. Any modifications to the approved SUSMP plan must be resubmitted to the Department of Building and Safety for approval.

3. A copy of the approved SUSMP plan must be in the possession of a responsible person and available at the site at all times.

4. All structural BMP's shall be accessible for inspection and maintenance.

5. Prior to commencement of any work within the road right of way and/or connection to County maintained storm drain, an encroachment permit from the Engineering Department, Permitting Section is required and can be reached at (310) 618-5898.

6. STATEMENT OF UNDERSTANDING

As the _____ of the project, I have reviewed the Development Planning for Storm Water Management-A manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), and have proposed the implementation of the permanent Best Management Practices (BMP's) applicable to effectively minimize the negative impacts of

the project's stormwater runoff. The selected BMP's will be installed per the approved plans and as recommended by the product manufacturer as applicable.

7. Show the location of proposed BMP's on plans. All necessary manufacturer's installation notes and construction requirements and/or details must be included on the plans for all treatment and holding facilities. **This includes model, size, material type, dimensions, volumetric capacity and manufacture's treatment capacity.**

8. For non-structural BMP's, in addition to the items indicated above, provide details of all organic materials including plants, filter materials and specifications. Planting and irrigation details for any vegetated BMP must be indicated on the plans.

9. Specify all elevations for proposed BMP's, inverts or flow lines as applicable.

10. Specify on the plans for each drainage device, the total design flow, Q_{TOTAL} and the peak mitigation flow rate, Q_{PM} (See Reference 1 for additional information).

11. Clearly show driveway/access road drainage and provide BMP's for treatment of driveway flows. Provide elevations, cross sections or slopes as applicable.

12. Show proposed drainage in paved areas. Provide spot elevations, slopes and flow arrows to intended outlet(s). If offsite tributary flows are not included in onsite treatment, show how flows will be directed away from proposed BMP's. Provide topography, elevations, cross sections, slopes and details as applicable.

13. For commercial properties, all catch basin and inlets that discharge into an existing or proposed stormdrain must be labeled to discourage illegal dumping of pollutants.

14. Provide a hydrology analysis to determine the design flow rate (Q_{PM}) or Volume (V_M) for the first ¾ inch of rainfall that must be treated. Attached is a simplified design chart which you may use for determining the design flow rate (Q_{PM}). The table assumes a time of concentration of 5 minutes. A substantial reduction in the design flow rate may be obtained by doing a more detailed analysis. If a more detailed hydrology study is desired, please refer to the Development Planning for Storm Water Management Manual and the Los Angeles County Hydrology Manual.

15. Submit site specific hydraulic calculations along with the recommended structural BMP manufacturer's product specifications to verify the BMP will adequately handle the minimum design flow required for treatment. **NOTE:** The proposed project improvements must provide the required minimum level of flood protection.

16. Provide Hydraulic analysis for the following: _____
    _____
    _____

17. Outlet velocities from proposed drainage devices must be designed to minimize erosion. Energy dissipation is required for all devices. Calculations for the sizing of dissipaters must be provided. Soils analysis may be required to determine the site conditions and susceptibility to erosion.

18. Direct rooftop runoff to pervious areas such as yards, vegetated open channels, or areas where practical. Provide BMP solution for treatment of roof runoff.

CERTIFCATION AND PROOF ON ONGOING MAINTENANCE

19. Project Civil Engineer/Architect must complete the **STATEMENT OF UNDERSTANDING**, see SUSMP general note number 6 that must be signed and added to proposed plans.

20. Provide recorded and certified copies of the attached **MAINTENANCE AGREEMENT FOR SUSMP DEVICES** to provide for ongoing operation and maintenance of SUSMP devices, refer to attached agreement.