Master Plan of Drainage (MPD) Plan Review Checklist

OC PLANNING
A DIVISION OF OC PUBLIC WORKS

ocpCustomerCare@ocpw.ocgov.com | www.ocplanning.net

300 N. Flower Street
714.667.8888
714.667.8885

FACILITY NO. _____ TENTATIVE TRACT/PM NO. _____

Received Date: _____ Checked By: _____ Checked Date: _____

Project Engineer to complete the following:

DESCRIPTION	Check					
	1st	2nd	3rd	4th	Final Mylar	Comments
1. OVERALL CRITERIA						
Drainage Acceptance letter at upstream						
Drainage Acceptance letter at downstream						
Tract S.D. General Notes						
Plan Data Matches Hydrology Calculations						
Design Q Frequency						
Design Q Flow						
Pipe Diameter						
Pipe n value						
Pipe slope S						
Plan data matches Hydraulics Calculations						
Design Q Frequency						
Design Q Flow						
Pipe Diameter						
Pipe n value						
Pipe flowline slope						
Pipe friction slope						
Normal Depth						
Critical Depth						
HGL elevations						
2. TITLE SHEET						
County Standard Title sheet for MPD						
Project Title with Facility Number and limits of construction						
Vicinity Map						
Location Map						
Street configuration						
Lot Configuration						
Final Tract Boundaries						
Street names						
Scale						
North Arrow						
Identify limits of each Plan Sheet						
Stationing						
City Limits (where applicable)						
Label Drainage Channels						
Limits of Construction						
General Notes						
Statement of maintenance responsibility						
List approved deviations and alt dev. studs						
Drawing No. (e.g. L02P32-713-1,-Flood Design.)						

DESCRIPTION	Check					
	1st	2nd	3rd	4th	Final Mylar	Comments
Signature Blocks Engineer, Engineer, RDMD						
Legend of symbols used						
Orange County Permit Number(s)						
Self adhesive stick-on labels or certificates are NOT acceptable on any plan sheet in the final set.						
Index of Sheets						
All sheets in the final plan set must have 'wet' signatures and stamps by licensed engineer.						
Utility Contacts and Phone #						
Benchmark						
Basis of Bearing						
Quantities						
Developer/Owner name						
Title Block						
Revision Block						
Underground Service Alert (USA)						
3. PLAN SHEET: GENERAL						
Minimum Cover 30" in roads						
Maximum Cover 15ft, without agency o.k						
Cover over 20 feet Loc.Dr.Man						
Pipe aligned in outside lane or parking						
Minimum pipe slope .001						
Min Velocity 3 ft per sec						
Minimum pipe size 18in						
Alignment away from slopes and ret. walls						
RCP velocity>20fps use 1.5" steel clearance						
RCP>40% slope use cut off walls						
pH less than 6.5, RCP special Design						
Soil Sulfate>2000ppm\RCPS Special Design						
CSP, plastic, etc. See Loc. Dr Man						
4. PLAN SHEET: PLAN VIEW						
Construction Notes						
Hydraulic Data Table						
Storm Drain Easement per Loc. Dr. Man.						
Manhole Spacing and Location per L.D. Man						
Facility Number						
Drawing Number						
Match lines and sheet reference						
Street Name Reference						
Mainline and laterals are shown						
Pipe bedding per SP1319 is required for all RCP						
S.D. Centerline and Stationing of BC and EC						
Centerline Curve Data						
Bearing and Distance						
Ties to street centerline at SD ends						
Angle point stationing						
Junction Structure Type, stations, angle and elevations.						
Inlet Type, station, and Height						
S.D. Laterals shown and identified						
Easement Lines						
Show structures crossing						
Median drain tie to S.D.						
Local Depression Details reference street plans						
Use of Standard Symbols						

DESCRIPTION	Check					
	1st	2nd	3rd	4th	Final Mylar	Comments
Other Improvements Noted on Plan						
RDMD Standard Plans Referenced						
5. PROFILE:						
Plot of HGL						
Mainline and laterals are shown						
Scales, Horizontal and Vertical						
Datum at both edges of sheet						
Stationing:						
At bottom edge of Profile grid						
All Grade Breaks and equations						
Beginning and Ending of junction structures and at inlets.						
Elevations:						
At each edge of grid (one to two foot intervals)						
At Beginning and Ending of Junction structures and at inlets.						
Proposed Finished Surface with grade in percent (solid line), label						
Street or road centerline and name where It crosses Profile line						
Pipe length size and D Load on profile below pipe						
Location and elevation of utilities crossing S.D.						
6. INLETS FROM NATURAL CHANNEL						
Depth at inlet per Hydraulic calks						
Riprap to 1.5 ft above Q10 tailwater						
Riprap 10 feet upstream of inlet structure						
7. OUTLETS TO NATURAL CHANNEL						
Scour Protection						
Length per Table 5-8 in Loc. Dr. Man.						
Height to match depth of flow						
Gradation of riprap per SP 1808 or as designed						
Energy Dissipaters per Loc. Dr. Man.						
Scour protection installed D/S of Energy Dissipater						

REVIEWED BY: _____

PRINTED NAME: _____

DATE: _____

COMPANY: _____