

CITY OF NEWPORT BEACH COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION 100 Civic Center Drive, Newport Beach, CA 92660 www.newportbeachca.gov | (949) 644-3200

HYDROLOGY AND HYDRAULICS REVIEW CHECKLIST

Project Address:		
Plan Check No.:	Date of Rep	ort:
Report Prepared By:		
Plan Check Engineer: Sergio Gutier	rez sgutierrez@newportbeachca.gov	Phone: 949-644-3213
X 1 st Review:	2 nd Review:	3 rd Review:

- Make the following corrections to the report.
- Return this correction sheet and check prints with corrected report.
- Submit a response sheet indicating how each correction was resolved.
- Public streets and alleys subject to review by Public Works.

Prior to approval of the report, attend to the following:

TITLE PAGE

- Name of project
- Site address (or addresses) OR Tentative Tract Map No.
- Owner/developer name
- o Owner/developer address & telephone number
- o Consulting/engineering firm
- o Consulting/engineering firm address & phone number
- o Date report was prepared/revised
- o Signature and stamp of registered civil engineer who prepared the report.

HYDROLOGY REVIEW

- A. Provide hydrologic plan and profile with:
 - o Legend
 - o All easements
 - o Scale 1"-20' or 1"-40'
 - Show storm drain stationing on plan and profile (if applicable)
 - o Show proposed improvements with solid lines and exiting improvements with dashed lines
 - Show 100 year storm elevation on retention basin
 - Provide inlet capacities
 - o Show Hydrology Plan Q and Tc for pre- and post-development at each node
- B. Provide calculations for each node to verify the subarea, length of travel, nodes and cfs
- C. Provide pre-development and proposed 25-year and 100-year storm peak flow and Tc (show on Hydrology plan)
- D. Post development run-off shall not exceed the pre-development run-off (CalGreen)

HYDRAULIC COMPUTATIONS

0	Provide storm drain capacity computations
0	For pressure flow, provide water tight joints and verify that no water exits out of inlets
0	Provide curb inlet and catch basin computations
0	Provide capacity computations for concrete swales
0	Provide pipe size calculations based on Q from hydrologic computations
0	Minimum factor of safety of 2 for inlet sizing
0	For grated inlets provide a 50% clogging factor
0	Concrete coating inside of reinforced concrete pipes shall be a minimum of 1.5 inches
	over the reinforcing when velocity exceeds 20 fps
0	Pipes on slopes greater than 4:1 shall be anchored at 10 foot vertical intervals
0	For 12 inch or greater diameter HDPE pipe, maximum blend is 11 $\frac{1}{4}$ degrees
0	Provide detail for HDPE to RCP connection (if applicable)

ADDITIONAL CORRECTIONS