

GENERAL CRITERIA

STORM DRAIN IMPROVEMENTS SUBMITTED FOR REVIEW AND APPROVAL SHALL BE IN CONFORMANCE WITH THE FOLLOWING STANDARDS:

1. ALL SUBMITTALS SHALL BE IN DUPLICATE.
2. TOPOGRAPHIC MAPS SHALL HAVE ELEVATIONS ADEQUATE TO DEFINE BOUNDARIES AND SLOPE OF DRAINAGE BASIN.
3. EACH DRAINAGE BASIN TO BE IDENTIFIED AND CORRELATED TO CALCULATIONS FOR THAT BASIN.
4. ALL DATA AND CALCULATIONS SHALL BE COMPLETE AND SHALL HAVE REASONABLE CLARITY.
5. ENGINEERING CALCULATIONS SHALL BE SUBMITTED VERIFYING THAT APPROPRIATE MEASURES HAVE BEEN ADDRESSED, INSURING THAT EXIT VELOCITIES ARE NON-ERODING.
6. THE ATTACHED STORM DRAIN DESIGN CRITERIA AND CHARTS SHALL BE USED WITH THE RATIONAL FORMULA FOR CALCULATING HYDROLOGIC AND PIPE AND/OR CHANNEL DESIGN CHARACTERISTICS, I.E., SIZE, TYPE, SLOPE, VELOCITIES AND ENTRANCE AND OUTLET STRUCTURES.
7. ALL EXISTING STREETS TO BE ASSUMED CONSTRUCTED TO ULTIMATE STANDARDS.
8. MINIMUM SIZE OF PROPOSED STORM DRAINAGE CULVERTS SHALL BE 12 INCHES IN DIAMETER.

HYDROLOGIC CRITERIA FOR PIPES AND CULVERTS

1. LEVEL OF DEVELOPMENT AS SHOWN IN CITY OF CORCORAN GENERAL PLAN.
2. RECURRENCE INTERVAL (STORM FREQUENCY)
 - A. FREQUENCY OF 2 YEARS FOR AREAS LESS THAN 160 ACRES.
 - B. 5 YEAR FREQUENCY FOR AREAS LARGER THAN 160 ACRES.
3. DESIGN CONSIDERATION

ON RESIDENTIAL STREETS, FACILITIES SHOULD BE DESIGNED SO THAT A 2-YEAR INTERVAL STORM DOES NOT POND LONGER THAN 1 HOUR. PROVISIONS SHALL ALSO BE MADE SO THAT WATER DEPTH DOES NOT EXCEED THE TOP OF CURB BY MORE THAN 1 (ONE) FOOT FOR A 100-YEAR RETURN INTERVAL STORM.

FOR COMMERCIAL ZONES, FACILITIES SHOULD BE DESIGNED SO THAT A 2-YEAR RETURN INTERVAL STORM DOES NOT POND LONGER THAN 1 HOUR AND THAT A 100-YEAR STORM DOES NOT CAUSE PROPERTY DAMAGE TO BUILDINGS.

4. MINIMUM PIPE VELOCITY
V=2.5 FPS.

CITY of CORCORAN • Department of Public Works

Standard Drawing for:

STORM DRAINAGE CRITERIA

APPROVED: City Engineer

05/19/08
Date

Revised:

SD-1