PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT
OVERALL PROJECT CONDITIONS AND DRAINAGE REPORT REVIEW CHECKLIST

This checklist is to assist Pima County Regional Flood Control District staff in completing a review of project drainage information and to help assure consistent reviews. The checklist is provided as a courtesy to the public. It is not a substitute for professional judgment or complete text of codes, policies and design standards. Submitting the items summarized by the checklist does not insure project approval. Additional site-specific information may be required.

Project Name _____ **Project Number** _____

REFERENCE DRAINAGE AND REGULATORY FLOODPLAIN INFORMATION CHECK, complete as applicable

FEMA Panel Number_____ Effective Date _____ Zone _____
LOMR Case No. _____ Effective Date _____
CLOMR Case No. _____ Effective Date _____
RFCD Special Study Complete _____
RFCD Special Study In Progress _____
District Basin Management Study Complete _____
Developer Mapped Floodplain Project Information _____
Local Sheet Flood Area Depth _____
Transportation Project Number _____
District Improvement Plans _____
Adjacent Developments _____
Previously Approved Permits for the site _____
Aerial Photo Check for Overall Characteristics _____
_____
_____

REZONING/SPECIFIC AREA PLANS/COMPREHENSIVE PLAN AMENDMENTS/CONDITIONAL USE PERMIT?
Yes _____ No _____
Case No. _____ Flood Control Conditions Checked _____

DRAINAGE COMPLAINTS? Yes _____ No _____
If yes, recent complaints checked _____

PRE-SUBMITTAL AGREEMENTS?
If yes, documented in file _____

SDRC?
If yes, minutes in file _____

DRAINAGE REPORT REQUIREMENTS

General
_____ Engineer's Seal on Drainage Report
_____ Cover Sheet follows TECH-114
_____ General Location Description
_____ Location Map
_____ Description of Proposed Development
_____ Description of Existing Conditions
_____ Description of Upstream and Downstream Watershed Conditions
_____ Relevant Drainage Features 16.36.020
_____ Aerial Photo
_____ Description of FEMA Zones
_____ Proposed alterations to FEMA Mapping. CLOMR Requested.
(16.16.070, 16.36.040)
_____ FEMA Firmette with project location show
_____ Description of Special Studies
_____ Description of Regulatory Floodplains/Sheet Flood Areas
_____ Other Previous Studies Information
_____ Critical or Balanced Basin
_____ Site-specific Detention/Retention Requirements?
_____ 404 Compliance Statement
_____ Summary and Conclusions
_____ Engineer's Statement
_____ References

Procedures
_____ Description of methodology and assumptions
_____ Previous Studies to be used? Engineer verifies discharges used.

Hydrology & Hydraulics
Offsite
_____ Description of watersheds
_____ Soils Map
_____ Watershed Map
_____ Rainfall Data
_____ Peak Discharges with calculations
_____ Table of CP's, Drainage Areas, Peak Discharges
_____ Exhibit with entering and exiting CP's (16.36.030)
_____ Adjacent Plans/Plats Provided
_____ Topography consistent with other available sources

Onsite/Existing

_____ Description of Site-Specific Conditions
_____ Peak Discharges with calculations
_____ Table of CP's, Drainage Areas, Peak Discharges
_____ Drainage Exhibit
_____ On-site Drainage Watershed Boundaries
_____ Drainage Infrastructure
_____ Entering/Exiting CP's
_____ Regulatory Floodplains
_____ Erosion Hazard Setbacks
_____ Cross-sections with WSEs for Regulatory Floodplains
_____ Regulatory Sheet Flood Areas; limits and depths
_____ Modeling Files

Onsite/Proposed

_____ Description of Site-Specific Conditions
_____ Peak Discharges with calculations
_____ Table of CP's, Drainage Areas, Peak Discharges
_____ Drainage Exhibit
_____ Drainage Area Boundaries
_____ Drainage Infrastructure
_____ Entering/Exiting CP's
_____ CPs for onsite drainage infrastrucure
_____ Regulatory Floodplains (16.36.020)
_____ Erosion Hazard Setbacks (16.28, TECH-002)
_____ Cross-sections with WSEs for Regulatory Floodplains
_____ Average Depth of Flow for Sheet Flood Areas
_____ Modeling Files
_____ Encroachment (16.26.020 C)
_____ Developed Conditions approximate Existing Conditions at Property Boundaries, comparison table relating all proposed CP's to existing CP's
_____ Clear Drainage Pattern to Basins and Structures; topo and spot elevations; high and low points
_____ Street Flows and Street Capacity Cross-sections (SDSS)
_____ All-weather access, dv^2
_____ P.A.A.L. depth does not exceed 1 foot
_____ First Flush Calculations
_____ Retention/Detention (DSSDR, 16.36.100, 16.48)
_____ Detention and Retention Volumes
_____ Routing for Detention and Detention with Retention Basins
_____ Runoff Volumes to Retention Only Basins; if volume exceeds Basin volume; outflow shown
_____ 100-year water surface elevation; Q100 in and out
_____ Top and bottom elevation
_____ Adjacent structure FFE, if applicable
_____ Near structures require engineer recommendation
_____ Minimum .5% bottom slope for detention only; flat bottom for retention
_____ Cross-sections of basin as appropriate
_____ Details/profiles of structures
_____ Security Barriers (TECH-008)
_____ Embankment details (DSSDR)
_____ Underground emergency overflow, maintenance covenant
_____ Waiver Request follows DSSDR
_____ In-lieu Fee Calculation
_____ Scuppers
_____ Curb Openings
_____ Catch Basins
_____ Storm Drain
_____ Culverts
_____ Headwater
_____ Inlet/Outlet Protection
_____ Sediment Transport Ratios

_____ Channels, Swales (16.36.120, DCDC V-11 to V-24, SMDDFM, Chapters 8 and 9)
_____ Rip-Rap (DCDC V-6, COT 9.3.3)
_____ Q_{100} shown at all drainage structures
_____ Details and profiles shown
_____ Walls and Fences (TECH-005)
_____ Elevation
_____ Wall Openings

Maintenance and Inspection Protocols

_____ Format usable by owner