

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT
IMPROVEMENT PLAN REVIEW CHECKLIST

Project Name _____ Project Number _____

Cover Sheet

Legend

- ____ 100-year Floodplain Limits for Regulatory Flows
- ____ Erosion Hazard Setbacks for Regulatory Flows
- ____ 404 Limits
- ____ FEMA limits

Site Plan

- ____ Easements labeled as private
 - ____ Public easements Division Manager
 - ____ Drainage easements shown/ labeled
 - ____ Matches Drainage Report
 - ____ Drainage Areas match Drainage Report
 - ____ Existing Conditions/Infrastructure
 - ____ Topography, consistent with available topo
 - ____ Spot elevations, FFE, FG, relation to WSEL's
 - ____ Grade contours, grading limits
 - ____ High points sufficient to support drainage scheme
 - ____ Low points at drainage structures, do not create ponding
 - ____ Positive drainage away from structures
 - ____ Floodplain Limits for regulatory flows
 - ____ 100-year WSE for regulatory flows, maximum distance of 200 feet apart (if FEMA, show FIRM data), RFE's for structures OK
 - ____ EHS for regulatory flows
 - ____ If FPUP required, check for application
 - ____ Q100 and drainage areas entering the site
 - ____ Q100 at all drainage structures and points of exit
 - ____ Erosion protection location and dimensions
 - ____ Drainage scheme with flow arrows / % slope
 - ____ Drainage grading compatible with adjacent grade
 - ____ Site-specific requirements:
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Detail Sheets

- ____ Channel sections: Q100, depth, freeboard, slope, N-value, velocity
- ____ Outlet protection matching supporting calculations
- ____ PAAL/street cross-sections: dimensions, curb height, Q100, slope
- ____ Detention Basin cross-sections: dimensions, top/bottom elevation, 100-Year WSE
- ____ Basin inlet/outlet structures with positive drainage for retention volumes
- ____ Bank protection, erosion protection and toe down details
- ____ Match drainage report, check for need for drainage addendum
- ____ Headers, cut-off walls at pavement edge as needed

Drainage Structures Match Drainage Report:

Curb Openings / Scuppers

- ____ Q100 Shown
- ____ Standard detail called out

Channels

- ____ Construction: e.g., earthen, RR, soil cement, concrete
- ____ Dimensions
- ____ Slope: side and longitudinal

Culverts

- ____ Pipe Material, Size, Inverts, Length
- ____ Slope
- ____ Headwall
- ____ Design Discharge
- ____ Outlet Protection
- ____ Headwater

Storm Drains

- ____ Pipe Material, Size, Inverts, Lengths
- ____ Slope
- ____ Manholes / Rim Elevations
- ____ Catch Basins (Standard Detail)
- ____ Grate Inlets
- ____ Design Discharge
- ____ Outlet Protection

Basins

- ____ Inlet Structures with elevations
- ____ Outlet Structures with elevations: invert, weir
- ____ Outlet Protection
- ____ Side Slopes
- ____ Embankment Conditions, if applicable
- ____ Descriptor Box
 - ____ Ret / Det Volume
 - ____ Top / bottom elevation
 - ____ 100-year Water Surface Elevation
 - ____ 100-year ponding depth
 - ____ Q100 in / Q100 out
- ____ Setbacks from structures/property lines
- ____ 0.5% slope / min. 12" low flow pipe/ 6" orifice plate
- ____ Security Barrier (min. 42") for side slopes steeper than 4:1 and 100-year depth greater than 2 feet
- ____ Maintenance access
- ____ Labeled as Private
- ____ Multi-use basins: sign(s), service equipment elevated

Site-Specific Infrastructure
