



TECHNICAL DRAINAGE REPORT REQUIREMENTS FOR USIBWC REVIEW

Cover Letter with Contact Information

Formal Drainage Report:

Purpose of Study

Location

Site Description (off-site and on-site drainage conditions, prominent drainage features such as levees)

FEMA Floodplains

Proposed Conditions

Methodology (hydrologic and hydraulic analysis for existing and proposed conditions with list of software used with version numbers)

Results and Discussion (discuss hydraulic impacts, compliance with criteria from relevant agencies)

Conclusions

List of References

Appendices containing the following:

Figures: Relevant figures such as vicinity map, soils maps, land use maps, drainage basin map, floodplain map, FEMA FIRM

Figures should preferably be in color, legible and convey technical information with prominent features labeled. Include multiple figures to convey information clearly if needed.

Relevant engineering drawings describing the proposed project

Model Outputs: Calculation tables, hydrologic model outputs, hydraulic model outputs. HEC-RAS Standard Table 1, profile plots, cross-section plots, HEC-RAS generated report. Storm drain calculations, scour and sediment calculations

Reference Material: Include relevant documents such as portions from criteria manuals, FEMA FIRM, FEMA FIS table for discharges, geotechnical reports, earlier drainage reports

DVD: Readme file describing DVD contents, hydrologic models, hydraulic models, spreadsheet calculations, effective FEMA models, GIS and CADD files, reference studies
