



## CHECKLIST FOR PHASE I DRAINAGE REPORT

**Yes    No    N/A    Report Requirements**

### I. COVER SHEET

			A. Name of Project
			B. Address
			C. Owner
			D. Developer
			E. Engineer
			F. Submittal date and revision dates as applicable

### II. GENERAL LOCATION AND DESCRIPTION

			A. Site Location
			1. Site Vicinity Map
			2. Township, Range, Section, and ¼ Section
			3. Streets, Roadways, and Highways adjacent to the proposed development, or within the area served by the proposed drainage improvements
			4. Names of surrounding or adjacent developments
			B. Description of Property
			1. Area in Acres
			2. Ground Cover, vegetation, site topography and slopes
			3. NRCS Soils Classification Map and discussion
			4. Major and minor drainageways
			5. Floodplains delineated by UDFCD FHAD Studies or on FEMA FIRM Maps
			6. Existing irrigation canals or ditches
			7. Significant geologic features
			8. Proposed land use & site activities
			9. Groundwater investigations

### III. DRAINAGE BASINS AND SUB-BASINS

			A. Major Drainage Basins
			1. On-site and Off-site major drainage basin characteristics and flow patterns and paths
			2. Existing and proposed land uses within the basins
			3. Reference all drainageway planning or floodplain delineation studies that affect the major drainageways, such as UDFCD FHAD Studies and Outfall System Planning Studies
			4. Discussion of the impacts of the off-site flow patterns and paths, under fully developed conditions
			B. Minor Drainage Basins
			1. On-site and Off-site minor drainage basin characteristics and flow patterns and paths
			2. Existing and proposed land uses within the basins
			3. Discussion of the impacts of the off-site flow patterns and paths, under fully developed conditions



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### IV. EXISTING STORMWATER CONVEYANCE OR STORAGE FACILITIES

			A. Existing Stormwater Conveyance Facilities
			1. Existing conveyance facilities that will be incorporated into the design
			2. Existing conveyance facilities that will be incorporated into the design with modifications
			3. Existing conveyance facilities that will be rebuilt or abandoned
			B. Existing Stormwater Storage Facilities
			1. Existing storage facilities that will be incorporated into the design
			2. Existing storage facilities that will be incorporated into the design with modifications
			3. Existing storage facilities that will be rebuilt or abandoned

### V. PROPOSED STORMWATER CONVEYANCE OR STORAGE FACILITIES

			A. Proposed Stormwater Conveyance Facilities
			1. Conceptual discussion of proposed drainage patterns and describe differences from historic patterns
			2. Conveyance of off-site runoff
			3. Discuss the content of any pertinent tables, charts, figures, graphs, drawings, etc. that are presented in the report
			4. Discussion of anticipated conveyance problems and potential solutions
			5. Discuss the anticipated major drainageway improvements
			6. Discuss the maintenance and access aspects of the design
			B. Proposed Stormwater Storage Facilities
			1. Detention storage locations and conceptual outlet structure design
			2. Discuss anticipated storage problems and potential solutions
			3. Discuss the maintenance and access aspects of the design

### VI. WATER QUALITY ENHANCEMENT BEST MANAGEMENT PRACTICES

			A. Non-structural BMPs
			1. Discussion of non-structural BMPs that will be part of the stormwater management plan
			B. Structural BMPs
			1. Discuss structural BMPs that will be part of the stormwater management design
			2. Discuss the operation, maintenance, and access aspects of the design
			C. Source Controls
			1. Discuss site activities or operations that have the potential to impact water quality
			2. Discuss source controls that may be implemented to address site activities and operations.



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<b>VII. FLOODPLAIN</b>			
			A. Major Drainageway – Undesignated Floodplain
			1. Discuss floodplain issues and resources and strategy for floodplain delineation
			B. Major Drainageway – Designated Floodplain
			1. Discuss the source of the floodplain information and level of detail (UDFCD Flood Hazard Area Delineation or FEMA Flood Insurance Rate Maps)
			2. Discuss the scope of floodplain modifications, if proposed, including justification of why they are necessary
			3. Discuss Conditional Letter of Map Revision (CLOMR) and Letter of Map Revision (LOMR) requirements
			4. Discuss County floodplain development regulations and Floodplain Development Permit
<b>VIII. POTENTIAL PERMITTING REQUIREMENTS</b>			
			Identify other potential local, State and Federal permitting requirements.
<b>IX. REFERENCES</b>			
			Reference all criteria, master plans, reports, or other technical information used in development of the concepts discussed in the Drainage Report
<b>X. APPENDICES</b>			
			Provide copies of all pertinent information from referenced materials



## CHECKLIST FOR PHASE I DRAINAGE PLAN

**Yes    No    N/A    Plan Requirements**

### I. OVERALL DRAINAGE PLAN

			A. 24" x 36" in size, 22" x 34" also acceptable when half size sets will be produced
			B. Title block and legend
			C. Show boundaries of entire development or project
			D. Existing or proposed streets, roadways, or highways
			E. Show limits of all major basins, including off-site basins where feasible
			F. General drainage patterns and flow paths, including those entering and leaving the site
			G. Topographic information
			H. Identify existing stormwater management facilities, upstream, downstream, or within the site, which will provide a stormwater management function for the site
			I. Overlay or figure showing layout of Detailed Drainage Plan sheets

### II. DETAILED DRAINAGE PLANS

			A. 24" x 36" in size, 22" x 34" are acceptable plan sizes
			B. Title block and legend
			C. Scale 1"= 20' to 1"= 100', as required to show sufficient detail
			D. Existing topographic contours with a 5 foot maximum contour interval
			E. Existing stormwater conveyance or storage facilities
			F. Floodplain limits, based on available information or preliminary delineation information
			G. Major drainage basin boundaries
			H. Conceptual locations of stormwater conveyance or storage facilities, including detention ponds, water quality enhancement ponds, storm sewers, culverts, swales, etc., consistent with the proposed development plan
			I. Proposed flow directions
			J. Proposed contours, if they are available