Drainage Plan Sheets QC Checklist

Initial (30%)	PBLR	Detailed (60%)	Final (90/95%)	Sealed (100%)	RTL	N/A	QC Item	Comments
Drainage Plan Sheets								
☐	☐	☐	☐	☐	☐	☐	Title Block information is complete	
☐	☐	☐	☐	☐	☐	☐	Sheet numbering is correct and matches Index of Sheets	
☐	☐	☐	☐			☐	Engineer's Preliminary Stamp on all applicable pdfs	
				☐	☐	☐	Engineer' Seal, Signature and Date on all applicable pdfs	
Drainage Area Maps (*for culverts, storm sewer and inlets*):								
☐		☐	☐	☐	☐	☐	Streams & Tributaries	
☐		☐	☐	☐	☐	☐	Flow Paths	
☐		☐	☐	☐	☐	☐	Major highways & cross streets	
☐		☐	☐	☐	☐	☐	Drainage area boundaries in bold	
☐		☐	☐	☐	☐	☐	Drainage areas numbered	
☐		☐	☐	☐	☐	☐	Location of structures	
☐		☐	☐	☐	☐	☐	Contours (if applicable)	
☐		☐	☐	☐	☐	☐	North Arrow	
☐		☐	☐	☐	☐	☐	Scale	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
Hydraulic Calcuation Sheets (*for culverts, storm sewers and inlets*):								
☐		☐	☐	☐	☐	☐	**Runoff Computations Sheet:**	
☐		☐	☐	☐	☐	☐	Method used (i.e., Rational, Regression, Hydrograph, etc.)	
☐		☐	☐	☐	☐	☐	Values used for rainfall intensity (i)	
☐		☐	☐	☐	☐	☐	Runoff Coefficient used (C) for each drainage area	
☐		☐	☐	☐	☐	☐	Q for design and check year	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
						☐	**Calculation Tables Sheet:**	
☐		☐	☐	☐	☐	☐	Inlet calculations	
☐		☐	☐	☐	☐	☐	Pipe hydraulic calculations	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
Cross Drainage Culvert Layouts:								
							Plan View:	
☐		☐	☐	☐	☐	☐	Roadway horizontal alignment data (i.e., stationing, bearings, etc.)	
☐		☐	☐	☐	☐	☐	Roadway geometry shown correctly, including lane lines, edge of pavement, bridge decks, driveways, intersections, etc.	
☐		☐	☐	☐	☐	☐	Centerline of roadway	
☐		☐	☐	☐	☐	☐	Centerline of structure	
☐		☐	☐	☐	☐	☐	Skew Angle	
☐		☐	☐	☐	☐	☐	Beginning and end of structure	
☐		☐	☐	☐	☐	☐	Roadway width (lanes and shoulders)	

Drainage Plan Sheets QC Checklist								
Initial (30%)	PBLR	Detailed (60%)	Final (90/95%)	Sealed (100%)	RTL	N/A	QC Item	Comments
☐		☐	☐	☐	☐	☐	Direction of flow	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
							Profile View:	
☐		☐	☐	☐	☐	☐	Existing cross section with existing structure	
☐		☐	☐	☐	☐	☐	Proposed structure	
☐		☐	☐	☐	☐	☐	Side slopes	
☐		☐	☐	☐	☐	☐	Existing groundline out to ROW line	
☐		☐	☐	☐	☐	☐	ROW line and/or easements	
☐		☐	☐	☐	☐	☐	Flowline elevations	
☐		☐	☐	☐	☐	☐	Culvert slope	
☐		☐	☐	☐	☐	☐	Wingwall type	
☐		☐	☐	☐	☐	☐	Overall length of culvert (or length of widening)	
☐		☐	☐	☐	☐	☐	Location and length of breakback line for widening	
☐		☐	☐	☐	☐	☐	Design and check flood water surface elevations	
☐		☐	☐	☐	☐	☐	Headwater and tailwater elevations	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
Storm Drain Plan and Profile Layouts:								
							Plan View:	
☐		☐	☐	☐	☐	☐	Roadway horizontal alignment data (i.e., stationing, bearings, etc.)	
☐		☐	☐	☐	☐	☐	Roadway geometry shown correctly, including lane lines, edge of pavement, bridge decks, driveways, intersections, etc.	
☐		☐	☐	☐	☐	☐	Location of inlets, storm sewers, ditches, cut & restore, etc.	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
							Profile View:	
☐		☐	☐	☐	☐	☐	Storm sewer material, class, size, and length	
☐		☐	☐	☐	☐	☐	Pipe grade & elevations	
☐		☐	☐	☐	☐	☐	Existing ground	
☐		☐	☐	☐	☐	☐	Proposed ground	
☐		☐	☐	☐	☐	☐	Trench excavation limits	
☐		☐	☐	☐	☐	☐	**Existing**/proposed utility crossings	
☐		☐	☐	☐	☐	☐	Other:	
☐		☐	☐	☐	☐	☐	Other:	
Miscellaneous Drainage Details								
		☐	☐	☐	☐	☐	Modified inlets	
		☐	☐	☐	☐	☐	Pipe bedding details	
		☐	☐	☐	☐	☐	Rebar layout and cross sections for non-standard designs	
		☐	☐	☐	☐	☐	Support slab layouts	

Drainage Plan Sheets QC Checklist								
Initial (30%)	PBLR	Detailed (60%)	Final (90/95%)	Sealed (100%)	RTL	N/A	QC Item	Comments
		☐	☐	☐	☐	☐	Concrete collar details	
		☐	☐	☐	☐	☐	RC pipe connections	
		☐	☐	☐	☐	☐	Riprap, flume or channel details	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	