



CITY OF ST. CHARLES STORMWATER MANAGEMENT SUBMITTAL CHECKLIST

PLAN SET SUBMITTAL (9-32)

Identifier	Requirement	Comments	Completed
PS-1	All drawings should be signed and sealed by a P.E.		
Site Topographic Map:			
PS-2	Map scales at 1 inch = 100 feet (or less) and accurate to +/- 0.5 feet		
PS-3	Existing and proposed contours on-site and within 100 feet of Site		
PS-4	Existing and proposed drainage patterns and Watershed boundaries		
PS-5	Pre-Development regulatory Floodplain/Floodway limits		
PS-6	Post-Development regulatory Floodplain/Floodway limits		
PS-7	Location of cross-sections and any other modeled features		
PS-8	Location of Subsurface Drainage Systems		
PS-9	Boundaries of all Linear Watercourses, Nonlinear Waterbodies, Wetlands, and Buffers, with normal water elevations		
PS-10	Existing and proposed Impervious Area & Net New Impervious Area		
PS-11	Location of all Buildings on the Site		
PS-12	Nearest base flood elevations		
PS-13	North American Vertical Datum of 1988 (NAVD 88) and reference benchmarks used		
PS-14	All contours used in the calculation of Depressional Storage highlighted		
General Plan View Drawing (may be more than one for clarity):			
PS-15	Map scales at 1 inch = 100 feet (or less) and accurate to +/- 0.5 feet contour interval		
PS-16	Existing Major and Minor Stormwater systems		
PS-17	Proposed Major and Minor Stormwater systems		
PS-18	Design details for Stormwater Management Measures		
PS-19	Scheduled maintenance program for Stormwater Management Measures, Major and Minor Stormwater Systems, and Subsurface Drainage Systems		
PS-20	Identification of persons responsible for maintenance		
PS-21	Permanent public access maintenance easements granted or dedicated to, and accepted by, a government entity		
PS-22	Proposed Regulatory Floodplain and Floodway location (with the Base Flood Elevations and Flood Protection Elevations noted)		
PS-23	Existing Linear Watercourses, Nonlinear Waterbodies, Wetlands, and Buffers		
PS-24	All plan areas at elevations below the high water elevation of Detention Storage Facilities highlighted		
PS-25	Where the two-tenths percent (0.2%) and the one percent (1%) regulatory Flood profile are available, the plan limit of the Floodplain		
Erosion and Sedimentation Control Plan:			
PS-26	Drawings at the same scale as the Site topographical map		
PS-27	Existing and proposed roadways, Structures, parking lots, driveways, sidewalks and other Impervious surfaces		
PS-28	Existing soil types, vegetation and land cover conditions		
PS-29	Limits and acreage of disturbance		
PS-30	Location of all Special Management Areas		
PS-31	Location of all Erosion and Sedimentation Control Practices		
PS-32	Details for all proposed Erosion and Sedimentation Control Practices		
PS-33	List of maintenance tasks for all Erosion and Sedimentation Control Practices		
PS-34	Schedule for implementation and maintenance of Erosion and Sedimentation Control Practices and stabilization		

Identifier	Requirement	Comments	Completed
PS-35	The name, address and phone number at which the Person responsible for Erosion and Sedimentation Control Practices may be reached on a twenty-four (24) hour basis.		
Vicinity Topographic Map:			
PS-36	Vicinity topographic map identifying the upstream Drainage Area to the Development and downstream receiving Channel (a two foot (2') contour map is preferred)		
PS-37	Watershed boundaries for the Drainage Area through or from the Development		
PS-38	Soil types related to hydrologic soils group, vegetation and land cover affecting Runoff upstream of the Site for any upstream Drainage Area		
PS-39	Location of Site with the major Watershed(s)		
PS-40	Overland Flow Path from the downstream end of the Development to the receiving Channel		

STORMWATER SUBMITTAL (9-86)

Identifier	Requirement	Comments	Completed
SW-1	Narrative description of the existing and proposed Site drainage patterns and conditions and off-site conditions		
SW-2	Schedule for implementation of the site's stormwater management plan		
Site Runoff Calculations:			
SW-3	On-site and off-site Runoff calculations used to calculate hydrologic and hydraulic conditions for sizing Major Stormwater Systems and Minor Stormwater Systems		
SW-4	Cross section data for Open Channels		
SW-5	Hydraulic grade line and water surface elevations under design flow conditions		
SW-6	Hydraulic grade line and water surface elevations under Base Flood flow conditions		
Site Runoff and Storage Calculations:			
SW-7	Calculation of existing Impervious Areas, New Impervious Areas, and Net New Impervious Areas		
SW-8	Documentation of the procedures and assumptions used to calculate hydrologic and hydraulic conditions for determining the Allowable Release Rate;		
SW-9	Documentation of the procedures and assumptions used to calculate on-site Depressional Storage		
SW-10	Documentation of the procedures and assumptions used to calculate hydrologic and hydraulic conditions for determining the detention storage volume		
SW-11	Elevation and storage data and calculations for detention volume		
SW-12	Elevation and discharge data and calculations specifically related to the Restrictor depicted in the engineering drawings		

**STORMWATER MITIGATION/BEST MANAGEMENT PRACTICES (BMPs) AND WATERSHED
BENEFIT MEASURES SUBMITTAL (9-110)**

Identifier	Requirement	Comments	Completed
SM-1	A narrative description documenting compliance with the requirements of Article V		
SM-2	Anticipated pollutants of concern based upon proposed Development land use		
SM-3	A listing and discussion of all BMPs or Watershed Benefit Measures to be used and how they will mitigate water quality and quantity impacts of the proposed Development		
SM-4	A description of soils on-site. For BMP's include: infiltration rates, percentage of clay, proximity to private and community wells; and depth to Seasonal High Groundwater Table, bedrock, or limiting layer		
SM-5	For native vegetated BMPs or Watershed Benefit Measures provide; seeding and planting locations, specifications, and methodology; schedule for installation; and maintenance and monitoring provisions		
SM-6	For Category I BMPs provide: existing Impervious Area and New Impervious Area; the required Volume Reduction; and quantifiable storage		
SM-7	For Category II BMPs provide; existing Impervious Area and New Impervious Areas; required Volume Reduction; storage provided in each proposed BMP; Calculations for pretreatment BMPs, pollutant removal rates, and the drawdown time for each BMP		
SM-8	For Watershed Benefit Measures provide: existing and proposed Runoff; If storage based, the required volume, if water quality based, the treatment acreage; if area based, the square footage; if constructed Wetland, calculations for hydrology; and calculations to demonstrate no adverse impacts		
SM-9	An opinion of probable cost to construct, maintain and monitor		
SM-10	Drawings including: a plan view and cross sections of each BMP or Watershed Benefit Measure		
SM-11	If native vegetated: a planting plan and maintenance and monitoring provisions		
SM-12	The proposed easement or Declaration of Restriction and Covenant to be recorded upon completion of the project		

FLOODPLAIN SUBMITTAL (9-145)

Identifier	Requirement	Comments	Completed
FP-1	Regulatory Floodplain boundary determination		
FP-2	Provide source of Flood profile information		
FP-3	Provide all hydrologic and hydraulic study information for site specific Floodplain studies, unnumbered Zone A area elevation determinations, and Floodplain map revisions		
FP-4	Floodway hydrologic and hydraulic analyses for the following conditions:		
FP-5	Existing conditions (land use and stream system)		
FP-6	Proposed conditions (land use and stream system)		
FP-7	Tabular summary of 100-year flood elevations and discharges for existing and proposed conditions		
FP-8	Calculations used for model development		
FP-9	Floodplain fill and Compensatory Storage calculations for below and above 10-year flood elevation		
FP-10	Tabular summary for below and above 10-year Flood elevation of fill, Compensatory Storage, and Compensatory Storage ratios provided in proposed plan		
FP-11	Floodproofing measures		
FP-12	Narrative discussion of Floodproofing measures including material specifications, calculations, design details, operation summary, etc.		
FP-13	Flood easements when required by the Ordinance or local jurisdiction		
FP-14	Statewide and Regional self-issuing permits (Statewide permits nos. 1 through 14 and Regional Permit No. 3		

WETLAND SUBMITTAL (9-180)

Identifier	Requirement	Comments	Completed
WL-1	Wetland Delineation Report (USACE format)		
WL-2	Calculation of required Buffer width		
WL-3	Illinois Department of Natural Resources threatened or endangered species (termination letter or other instrument of approval)		
WL-4	USFWS review procedure of site		
WL-5	One of the following from USACE; Jurisdictional Determination (JD), Letter of No Objection (LONO), or USACE permit		
WL-6	A narrative of proposed Wetland Impacts and means of Mitigation		
WL-7	Indirect impact calculations		
WL-8	For proposed Developments that will change the size of a Wetland through direct impacts via dredging or filling: the proposed to existing conditions Runoff volume ratio		
WL-9	If Wetland Impacts will be mitigated within a Wetland Mitigation Facility: a description of the proposed hydrologic regime, soils and Site geomorphology, specifications for rough and final grading, soil types soils placement, plant procurement, water control structures, a planting plan, maintenance and monitoring		
WL-10	If Linear Watercourses are modified: calculations for bank stabilization, channel width, depth, sinuosity, pool and riffles; specifications for bank stabilization measures, in-stream practices and planting plan; cost estimate		
Plan View Drawings:			
WL-11	All Linear Watercourses, nonlinear waterbodies, and Wetlands on-site or within one hundred feet (100') of the Site		
WL-12	All Buffers with the width labeled		
WL-13	Proposed Wetland and Buffer impacts		
WL-14	Wetland summary table		
WL-15	Identification of easement areas		
WL-16	If Wetland Impacts will be mitigated within a Wetland Mitigation Facility, a plan including: planting plan, plant list and maintenance and monitoring provisions		
WL-17	If Linear Watercourses are modified, a stream restoration plan including: plan, profile and cross sections of the existing and proposed stream; length of the existing and proposed Linear Watercourse; location and type of streambank stabilization measures; planting plan and Buffer		
WL-18	If Buffer averaging or re-establishment will occur on-site: Planting plan, acreage of Plant Communities and plant list, maintenance and monitoring provisions		

SECURITY SUBMITTAL (9-203)

Identifier	Requirement	Comments	Completed
SS-1	Estimate of Probable Cost to construct stormwater facilities.		
SS-2	Schedule for the completion of stormwater facilities.		
SS-3	Irrevocable letter of credit for 115% of estimated probable cost to construct the stormwater facilities.		
SS-4	Right to draw on the security statement - signed by the holder of the security.		
SS-5	Right to enter the development site to complete required work that is not completed according to schedule.		
SS-6	Indemnification statement - signed by developer.		
SS-7	Irrevocable letter of credit for 115% of estimated probable cost to install sediment and erosion control facilities.		
SS-8	Right to draw on the security statement - signed by the holder of the security.		
SS-9	Right to enter the development site to complete required work that is not installed and maintained according to schedule.		
SS-10	Statement that indicates that the lending institution capital resources at least \$10,000,000, or as authorized.		
SS-11	Lending institution has an office location within the Chicago Metropolitan Area.		
SS-12	Lending institution is insured by the Federal Deposit Insurance Corporation.		
SS-13	Allows Administrator to withdraw without consent of developer.		
SS-14	Allows Administrator to withdraw within 45 days of expiration date.		