FORT WORTH

TRANSPORTATION AND PUBLIC WORKS DEPT.
STORM WATER MANAGEMENT

ENGINEER'S CHECKLIST FOR CONCEPTUAL STORM WATER MANAGEMENT PLAN

Attach additional sheets as necessary for comments and descriptions.
Fold all sheets to 8½" x 11" or 9" x 12" and bind with a clip.

---

1. Project Information

A. *Name of Development:* ______________________ B. *Date:* ______________

C. *Location of Development:* ______________________

D. *Type of Development:* ______________________ E. *Total area (acres):* ______________

F. *Proposed Land Uses (CFW zoning designations):* ______________________

G. *Anticipated project schedule:* ______________________

H. *Name of Owner:* ______________________ I. *Telephone No.:* ______________

J. *Owner Contact Name:* ______________________ K. *FAX No.:* ______________

L. *Owner Address:* ______________________

M. *Engineer's Name:* ______________________ N. *Texas P.E. No.:* ______________

O. *Engineering Firm:* ______________________ P. *Telephone No.:* ______________

Q. *Engineer Address:* ______________________

R. *Engineer's E-mail:* ______________________ S. *FAX No.:* ______________

2. Attachments:

_____ **Development Concept Plan (if available) or Conceptual Site or Project Layout**

_____ **Existing Conditions and Layout Map**

_____ **Concept Drainage Area Map**

For City Use: Reviewer: ______________ *Date:* ______________

Accepted *Not Accepted* *Case No.:* ______________

Comments: ______________________

____

	Yes	No	N/A	Comments and Descriptions
3. Planning Concerns				
A. Have any previous drainage or watershed plans been completed in the watershed? (If yes, describe)	__	__	__	______
B. Is there any known history of flooding or excessive erosion downstream? (If yes, describe conditions and locations)	__	__	__	______
C. Are there any known downstream drainage constrictions such as undersized culverts on public roadways? Size?	__	__	__	______
D. Are there any FEMA 100-year floodplains which will need flood studies, CLOMRs, LOMRs, etc., for this project?	__	__	__	______
E. Are there any known or suspected wetlands areas, mitigation areas, 404 permit areas, or other natural habitat features which require special consideration?	__	__	__	______
F. Are there any existing dams over six feet in height which are or will be subject to TCEQ regulations?	__	__	__	______
G. Are there any existing impoundments subject to TCEQ water rights permitting? (Livestock ponds are generally exempt until converted to other uses.)	__	__	__	______
H. Are there any existing environmental concerns on the site requiring special treatment or design consideration (i.e. fuel stations, vehicle maintenance, auto recycling, illegal dump sites, outdoor material storage, loading and transfer areas, landfills, industrial facilities, etc.)?	__	__	__	______
4. Existing Conditions Map(s) showing the following information on or adjacent to the development site:				
A. Digital orth-photography showing project boundaries	__	__	__	______
B. Existing topography (normally 2-foot contours)	__	__	__	______
C. Soil types from USDA soil surveys and/or soil borings	__	__	__	______
D. Perennial or intermittent streams	__	__	__	______
E. Boundaries and types of existing predominant vegetation	__	__	__	______

	Yes	No	N/A	Comments and Descriptions
F. Delineation of current FEMA floodplains	__	__	__	________
G. Locations of steep slopes	__	__	__	________
H. Locations of wetlands and natural habitat areas	__	__	__	________
I. Locations of all dams and impoundments	__	__	__	________
J. Existing roads, buildings, and other impervious areas	__	__	__	________
K. Environmental concerns identified in (2.H) above	__	__	__	________
L. Existing major utilities, pipelines, and easements	__	__	__	________

5. Does this development provide opportunities for Low-Impact Design?

	Yes	No	N/A	Comments and Descriptions
A. Preserve floodplains and natural valley storage?	__	__	__	________
B. Preserve natural streams and drainage patterns?	__	__	__	________
C. Preserve steep slopes?	__	__	__	________
D. Preserve trees and undisturbed natural vegetation?	__	__	__	________
E. Preserve wetlands and other natural features?	__	__	__	________
F. Drain runoff to pervious areas?	__	__	__	________
G. Utilize natural drainage vs. storm drain systems?	__	__	__	________
H. Reduce pavement and other impervious covers?	__	__	__	________

6. **Conceptual analysis of hydrologic and hydraulic impacts of the proposed development:**

	Yes	No	N/A	Comments and Descriptions
A. Hydrologic analysis to determine conceptual rates of runoff, volumes, and velocities to support decisions related to flood control and erosion protection downstream.	__	__	__	________
B. Conceptual estimates of the three (3) storm design approach requirements.	__	__	__	________
C. Conceptual selection, location, and size of proposed storm water structural controls.	__	__	__	________
D. Conceptual limits of proposed clearing and grading.	__	__	__	________

	Yes	No	N/A	Comments and Descriptions
7. Concept Drainage Area Map(s) showing the following information for the development site:				
A. Conceptual street layout (scale 1"=200')	__	__	__	____________________
B. All off-site drainage areas with topography (reduced scale)	__	__	__	____________________
C. Delineation of watershed boundaries with flow arrows	__	__	__	____________________
D. Reference info (file number, etc.) for previous drainage studies or existing developments & drainage facilities	__	__	__	____________________
E. Approximate zone of influence for all outfalls	__	__	__	____________________
F. Downstream constrictions, flooding, or erosion locations	__	__	__	____________________
G. Location of proposed structural storm water controls, if any	__	__	__	____________________

(seal)	I certify that this Conceptual Storm Water Management plan, including this checklist, required attachments, and additional comments, was prepared under my responsible supervision and that the information presented on this checklist and attachments is correct to the best of my knowledge. I also understand that an acceptance of this plan by the City does not waive any City standards or requirements unless a specific waiver request has been submitted and approved. Signed ______________________________ Date ____________________ Print Name:______________________________