

HYDROLOGIC METHODS AND DESIGN STANDARDS

DESIGN STANDARDS SHOULD INCLUDE:

Design standards should be followed when designing on-site storm water system.

1. Hydrology
 - a. Design storm (frequency and duration) for peak flows
 - b. Design storm for piping 100 yr- 24 hr event
 - c. Design storm for storage 100 yr- 24 hr event
 - d. Design storm for construction site BMPs 100 yr- 24 hr event
 - e. Storm hydrograph (unit hydrograph, Farmer-Fletcher, etc...)
2. Hydrologic methods
 - a. See "Excerpts from North Central Texas Council of Governments – iSWM criteria manual for Site Development and Construction"
3. Storage
 - a. Peak discharge allowances
 - i. 0.2 cfs per acre
 - b. Minimum storage requirements
 - c. Freeboard requirements (6" Minimum)
 - d. Maximum depths (2' unless exception is granted from the City Engineer)
 - e. Water quality requirements (Trash and Debris screen/ Oil Water Separation Device)
4. System policies
 - a. On-site detention required
 - b. Deal with storm water at the source
 - c. Underground Injection Wells (UIC) Must obtain permit thru the State
5. Permitting requirements
 - a. Maintenance Agreement
 - b. Right of Way Permit
 - c. Possible Permits from others: 404, Stream Alteration