## Assessing Impacts to Floodplains

Identify Source of Potential Impacts

Encroachment

Fill Pilings/Bridge Abutments Infrastructure

Determine Study Area

Generally Direct impact

Determine Existing Conditions
Maps of Designated Floodplains (FEMA) State Agencies U.S. Army Corps of Engineers

USGS Local flood insurance studies

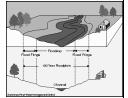
**Identify Standard** 

Federal Standards

State/ Local Standards

## Floodplain Basics

- Executive Order 11988
  - Requires measures to minimize, restore and preserve
    - Lives/property
    - Natural /beneficial values
- Definitions
  - Regulated Floodway encroachment limits
  - 100-year flood 1% chance of being exceed in any given year



## Floodplains (cont.)

• Impact Prediction

Direct filling (encroachment) of floodplain
Calculations of changes is flood levels, runoff quanity, velocity,

Assess Significance of Impacts

1 foot rise in flood elevation in flood frings at any location along stream for 100-yr flood

Risk to life and property (flood levels, flood-related erosion, mudslides
State/Local Policies

Mitigation

No floodplain encroachment is permitted unless no practicable alternative

Avoidance Minimization

Compensate for conveyance and storage capacity