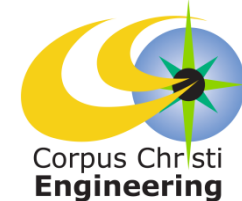




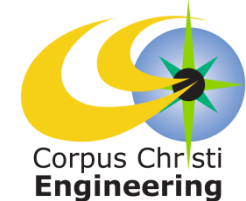
FEMA FIRM Update



- A Flood Insurance Rate Map (FIRM) depicts the Special Flood Hazard Area (SFHA) within a community that are vulnerable to flooding when a storm with 1% annual chance (previously referred to as the 100-year storm) occurs.
- FIRMs are used to enforce state and community floodplain management regulations, calculate flood insurance premiums, determine whether a property is required to purchase flood insurance as a condition of obtaining a federally backed loan, and for emergency management. These maps can also be used locally for land use, water resource, and hazard mitigation planning.



FEMA FIRM Update

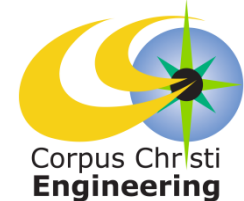


- **History**

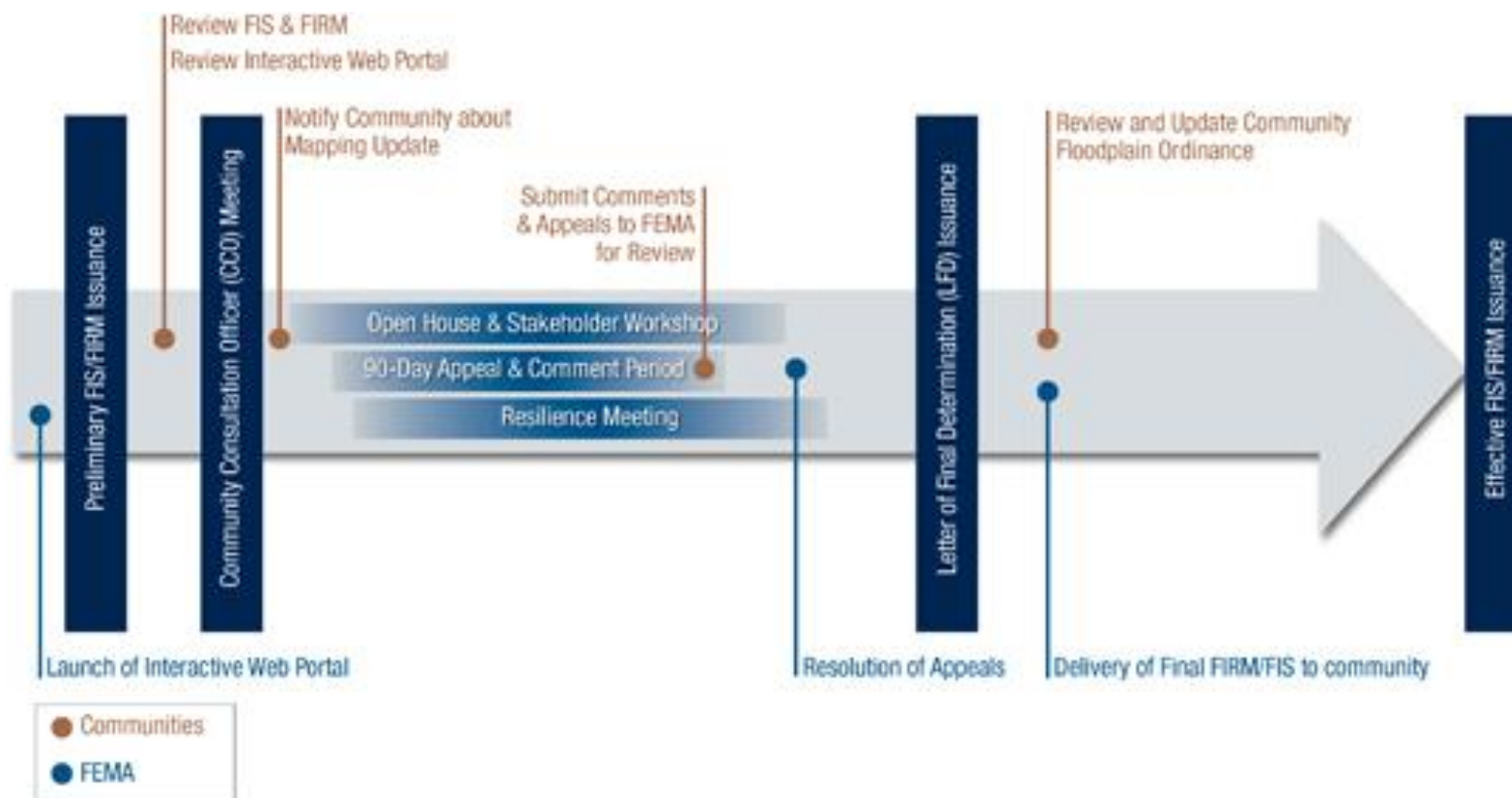
- Current Effective FIRM's for most areas of the City developed in the 1980's FEMA's update of the current Flood Insurance Rate Maps (FIRMs) will include:
 - Completing a comprehensive storm surge model for the Texas Gulf Coast.
 - Incorporating completed riverine models.
 - Creating a new updated preliminary Digital FIRM (DFIRM) and a new preliminary Flood Insurance Study (FIS).
 - FEMA developed using City's Storm Water system data
- To help inform property owners and community officials about flood studies, outreach activities will be provided by FEMA



FEMA FIRM Update

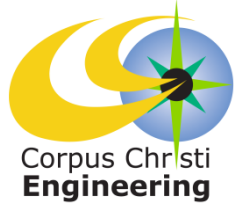


- Detail of events that occur after Flood Insurance Rate Maps are issued Preliminary





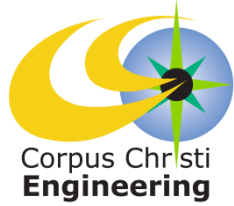
FEMA FIRM Update



- Ongoing City Actions
- Oso Creek Area:
 - Oso Creek Drainage Assessment
 - Preliminary assessment of creek underway
 - La Volla Creek
 - Assessment underway
- Bayfront/Downtown Area
 - Provisionally Accredited Levee (PAL) Agreement
 - March 2012
 - Preliminary FEMA Assessment along Bayfront
 - Working with FEMA for analysis methodology acceptance
 - Barge Dock Assessment
 - Project kick-off meeting held on 11/30/12
 - Salt Flats Levee Recertification Guidance Document
 - Salt Flats Levee Recertification – Phase 2
 - A/E selection complete under RFQ 2012-03
 - Contract negotiation pending
- Upcoming Short-term Actions
 - SWMP Update
 - La Volla Creek Improvements



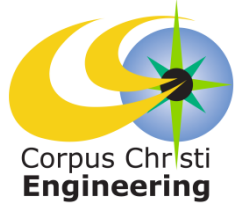
FEMA FIRM Update



Downtown and Bayfront Area

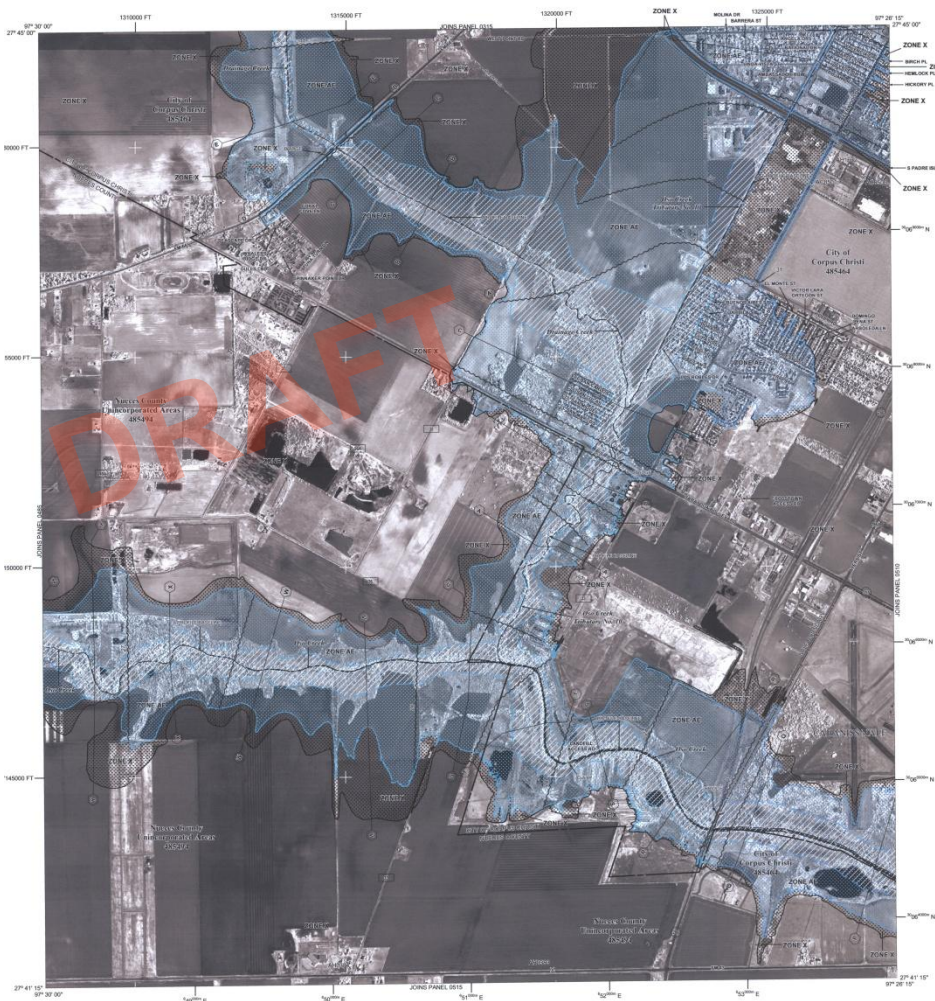
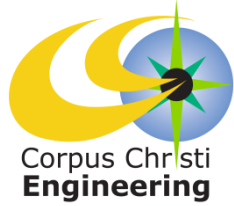


FEMA FIRM Update





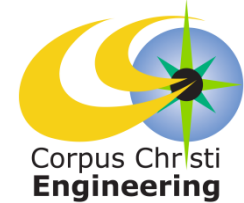
FEMA FIRM Update



La Volla Creek/
Las Colonias Subdivision Area



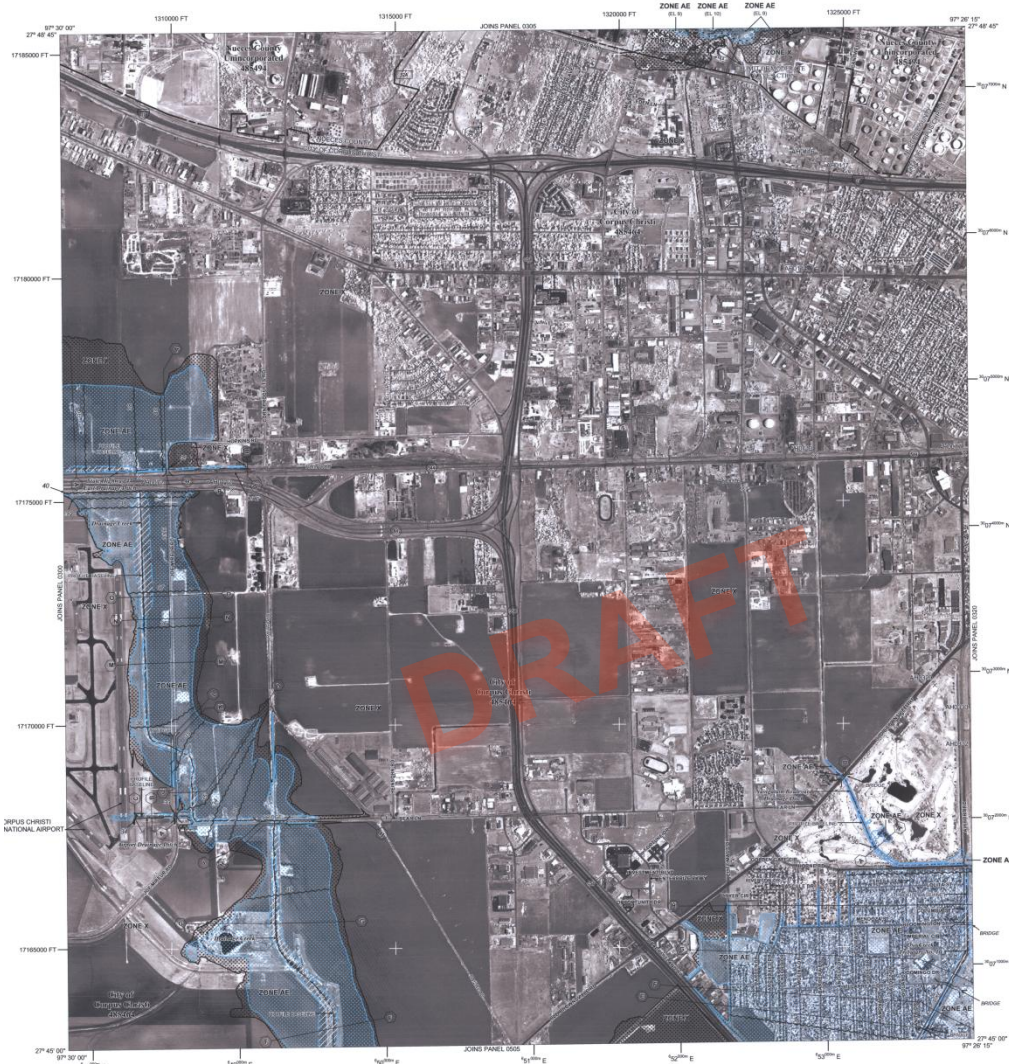
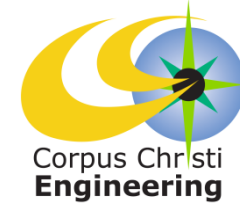
FEMA FIRM Update



North Padre Island Area



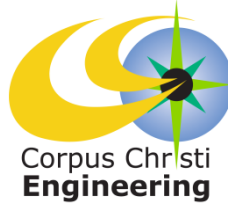
FEMA FIRM Update



IH 37 and SH 358 Area



FEMA FIRM Update



- Comparison of Drainage Master Plan Criteria for Adopted Master Plans

Facility	Design Storm Event (Years)				
	Current Practice	Proposed (2009)	1982	1970	1961
Protection of Habitable Structures	100	NO CHANGE			
Residential Streets	Up to 5	5			
Collector Streets	Up to 5	5			
Arterial Streets	Various	25			
Conveyance Systems					
Channels:					
Minor Drainage Systems	Up to 5	5	5 TO 25	5 TO 25	5 TO 25
Intermediate Drainage System	Various	25	5 TO 25	5 TO 25	5 TO 25
Major Drainage System	25	NO CHANGE	25	25	5 TO 25
Underground:					
Minor Drainage Systems	Up to 5	5	5 TO 25	5 TO 25	5 TO 25
Intermediate Drainage System	Various	25	5 TO 25	5 TO 25	5 TO 25
Major Drainage System	25	NO CHANGE	25	25	5 TO 25

- 1961 Master Plan covered the Southside
- 1970 Master Plan included areas west of Clarkwood (Oso Creek and Nueces River) and Flour Bluff
- 1982 Master Plan included the Five Points Area