



Master Service Agreement (MSA) for Salt Flats Levee Certification - Phase 2



Council Presentation
June 23, 2015

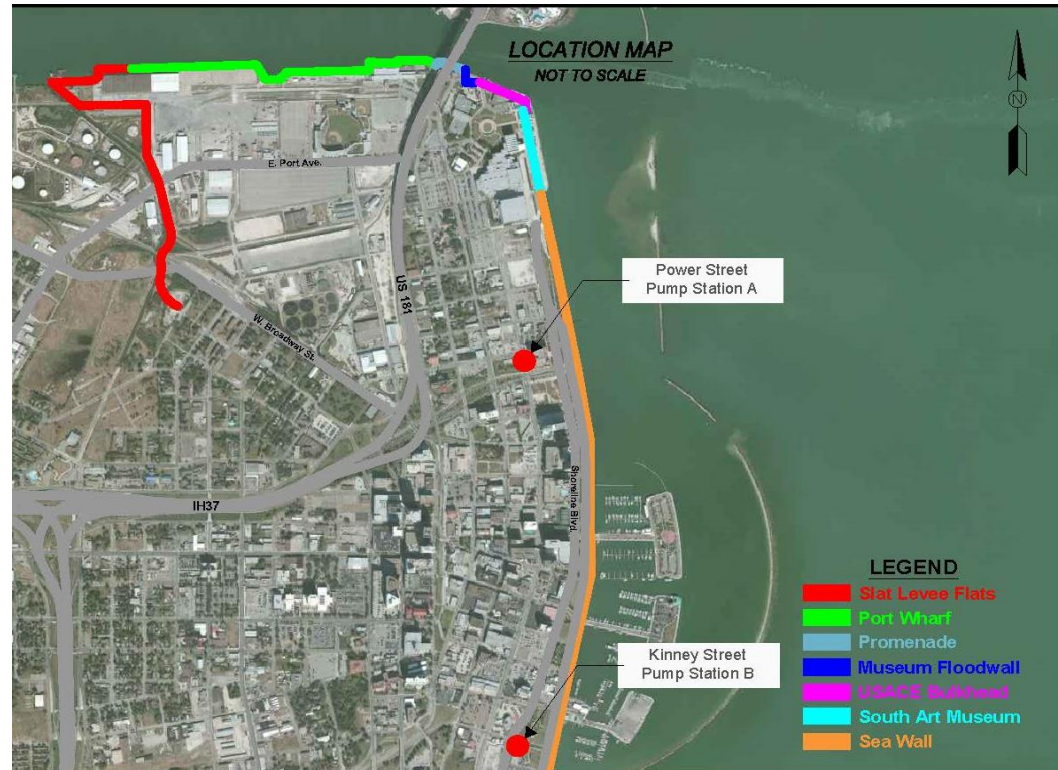


Project Background



City of Corpus Christi's
Downtown Flood protection
system consists of:

- Salt Flats Levee
- Flood Wall
 - ✓ Port Wharf
 - ✓ Port Promenade
 - ✓ Museum Floodwall
 - ✓ USACE Floodwall
 - ✓ Art Museum Floodwall
 - ✓ Seawall
- Drainage Pumping Stations





Project Background



What is a Flood Insurance Rate Map (FIRM)?

- Part of the National Flood Insurance Program (NFIP)
- Map illustrating the one percent chance per year flood elevation or base flood elevation (BFE).
- Developed and published by Federal Emergency Management Agency (FEMA)
- Used to determine flood insurance requirements, flood insurance rates and finished floor elevations for new construction.
- Provides public information about flood risk.

Why is this changing?

- Current FIRM was developed in 1985 and indicates that Downtown is largely protected by the flood protection system;
- FEMA policy has changed with regard to levee protected areas;
- Systems owners were required to document adequacy of design and construction for flood protection systems to be shown on FIRM as providing protection.



Current Status



What is current FIRM status?

- City submitted Provisionally Accredited Levee (PAL) Agreement in 2012.
- Agreement superceded by Levee Analysis Mapping Procedure (LAMP).
- Draft maps being finalized.
- Will initially show Downtown as a Zone X seclusion area.
- Zone X indicates that area is protected by a system that has not been fully analyzed.
- The BFE will remain as previously published until detailed LAMP study is completed.
- Policies for mapping non-accredited levees is still not in final form.

What is City's current status?

- City hired HDR by RFQ 2012-03.
- HDR has fulfilled currently contracted scope of work.
- City proposing new, task order based contract vehicle for remainder work.



FEMA Path Forward



- Nueces County FIRM will be initially published with Downtown as Zone X seclusion area;
- FEMA will model Downtown Flood Protection System,
 - ✓ Using Levee Analysis Mapping Procedure (LAMP);
- LAMP relaxes some of FEMA's previous requirements;
- Corpus Christi is a pilot project for the LAMP process;
- FEMA policy will continue to evolve;
- FEMA will ultimately publish final maps:
 - ✓ Removing Seclusion Zone designation;
 - ✓ Indicating new BFE in Downtown area.



City Next Steps

To Minimize New FIRM Maps Impacts



- Engage expert assistance with flexible contract structure;
- Peer review of FEMA's work;
- Identify and rank suspected system deficiencies;
- Plan mitigations for deficiencies;
- Implement corrective actions to address deficiencies;
- Strike appropriate balance - Cost, FIRM Impacts and Risk Reduction.



What Type of Contract?



Master Service Agreement (MSA) Contract

- Task order-based contract;
- Allows determination of work scopes for each requirement, on a case by case basis;
- Facilitates negotiation of individual task orders;
- Minimizes contract amendments;
- Allows greater responsiveness to evolving requirements.

Why use MSA Contract for this project?

- FEMA's regulatory framework continues to evolve;
- Existing deficiencies are not fully understood;
- Presently unable to determine complete scope of work;
- Work needs to continue before full scope is known.



Potential MSA Task Orders



- FEMA LAMP Pilot Coordination;
- Interior Drainage Analysis;
- Geotechnical Investigations;
- Structural Evaluations;
- Ranking Suspected Flood Protection Deficiencies;
- Corrective Measure Planning;
- Corrective Measure Design;
- Coastal Structure Evaluations;
- Floodwall Evaluations;
- Other services as required.



Conclusions

Salt Flats Levee Certification - Phase 2



- FIRMs are changing;
- Need to minimize impacts from proposed FIRM;
- Specialized assistance required to check FEMA's work;
- Need to identify, prioritize and correct deficiencies;
- MSA provides the best vehicle to contract services when scope not fully defined/understood;
- Execution of an MSA with HDR recommended;
- Recommendation approved by Type A Board;
- Funding included in Type A Seawall CIP.