

The El Dorado City Commission met in special session on March 9, 2010, at 3:30 pm in the Commission Room with the following present: Mayor Tom McKibban, Commissioner Linda Clark, Commissioner Nick Badwey, Commissioner Shane Krause, Commissioner David Chapin, City Manager Herb Llewellyn, Assistant City Engineer Scott Rickard, and Finance Director Dee Anne Grunder. Absent: City Attorney Jim Murfin, and City Clerk Kendra Porter.

VISITORS

Brad Meyer	220 E. 1st	El Dorado, Kansas
Julie Clements	El Dorado Times	El Dorado, Kansas
Tabitha Sharp	220 E. 1st	El Dorado, Kansas
Doug D.	Wilson & Co.	Wichita, Kansas
Bill D.	Wilson & Co.	Wichita, Kansas

CALL TO ORDER

Mayor Tom McKibban called the March 9, 2010, Special City Commission meeting to order.

FEMA LEVEE CERTIFICATION

Assistant City Engineer Scott Rickard presented to the Commission that in order to have our levee certified by FEMA it would have withstand the 100-year flood event.

Doug, Operations Manager and Bill, Project Manager from Wilson & Co., presented Phase I of the levee certification project.

FEMA LEVEE ACCREDITATION REQUIREMENTS

- Design Criteria
- Operation Plan
- Maintenance Plan
- Certified Levee System as-built plans

DATA COLLECTED

- US Army Corps of Engineers (USACE) Tulsa District
- Federal Emergency Management Agency (FEMA)
- Kansas Department of Transportation (KDOT)
- National Oceanic and Atmospheric Admin (NOAA)
- US Geological Survey (USGS)
- US Department of AG / Dept of Natural Resources (USDA NRCS)
- UP RR
- City files
- Wilson & Company (Field Survey, Levee History, Field Inspection, Bridge Design Files)

City Manager Herb Llewellyn stated that when the City was notified FEMA began remapping flood zones, we approached Butler County to see if they wanted to venture a co-op in Phase 1 to see if the levees we have were good enough to certify.

Assistant City Engineer Scott Rickard stated that we had until June 2009, to certify our levee. This was not completed and have until September 2011 to develop our plan of action.

Doug of Wilson & Co. stated that we are now waiting on FEMA to collect data and present certifying models to give to cities for certification.

Doug suggested to the Commission that they allow Wilson & Co. to study the Hydrology (calculating the amount of water that gets to the levee); FEMA would not

commit to this. He also felt that with the lower amount of water pressure this may not need certification.

DESIGN CRITERIA REQUIREMENTS

- Freeboard
- Closures
- Embankment Protection
- Embankment and Foundation Stability
- Settlement Analysis
- Interior Drainage

OPERATION PLAN (LEVEE AND INTERIOR)

- Flood Warning Systems (Both Systems)
- Plan of Operation (Both Systems)
- Periodic Operation of Closures
- Manual Backup (Interior Systems)
- Periodic Inspection (Interior System)

Currently the City has no operation plan.

MAINTENANCE PLAN

- Levee Systems
- Internal Systems
- Periodic Inspection (Interior System)

Currently the City has no maintenance plan.

SUGGESTION FOR PHASE II

- Coordinate, Obtain and Review FEMA Ground Surface Elevation (LiDar) Data and Supplement with Field Survey if necessary for Building Elevations, Interior Drainage and Embankment Stability.
- Update Hydrology for the west branch Walnut River and provide to FEMA.
- Coordinate, obtain and review FEMA updated hydraulic models for west branch of the Walnut River,
- If it's determined a tie-back levee is needed on the north end of the levee, complete a concept design for the tie-back levee, for cost estimating and alignment for geotechnical analysis.
- Assuming rehabilitation will be necessary for the section of levee that was breached and repaired in 1979, develop a concept cost estimate.
- Determine updated floodplains with and without levee and complete a "Do Nothing" analysis.

If it's determined to move forward with certification, complete the following:

- Perform an embankment and foundation stability and seepage analyses of the existing levee and US-54 tieback, plus additional analysis for a proposed tieback levee.
- Perform settlement analysis.
- Evaluate embankment protection where 1979 failure occurred using updated hydrology and hydraulic models.
- Complete interior drainage analysis using updated ground surface elevation data.
- Review outfall video inspections to verify functionality and structural integrity.
- Create an Operation & Maintenance Manual and verify functionality levee system components.
- Develop as-built plans to reflect current conditions.
- Verify maintenance and repair requirements identified during Phase I have been addressed.

- Complete a Phase II report to be submitted to FEMA.

Assistant City Engineer Scott Rickard recommends we move forward with the hydrology analysis at a cost of \$30,000.00.

ADJOURNMENT

Commissioner Linda Clark moved the meeting adjourned at 5:00 pm.

Commissioner Shane Krause seconded the motion.

Motion Carried 5-0.

City Clerk Kendra Porter

Mayor Tom McKibban