

Memorandum

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CITY OF DALLAS

DATE February 3, 2011

CITY SECRETARY
DALLAS, TEXAS

TO Trinity River Corridor Project Committee Members:

Steve Salazar (Vice-Chair), Mayor Pro Tem Dwaine Caraway, Deputy Mayor Pro Tem Pauline Medrano, Carolyn R. Davis, Vonciel Jones Hill, Delia D. Jasso, Linda Koop, Ann Margolin

SUBJECT Trinity River Corridor Project Council Committee Agenda

Please plan to attend a meeting of the Trinity River Corridor Project Committee on Tuesday, February 8, 2011 from 9:30 A.M. to 11:30 A.M. The meeting will be held at City Hall, 1500 Marilla, 6/E/S, Dallas, TX 75201

1. **Approval of minutes for January 18, 2011 Trinity River Corridor Project Committee meeting**
2. **Periodic Inspection Report No. 9 – Maintenance Deficiency Correction Period (MDCP) January 2010 Update (Memo for discussion)**
Presenter: Elizabeth Fernandez, P.E., Trinity Watershed Management
3. **Dallas Floodway System Update 100-Year Levee Remediation**
Presenter: Jill A. Jordan, P.E., Assistant City Manager
4. **Upcoming Event**
 - a) 7th Annual Trinity River Levee Run 10K, 5K Run and Kayak Fun Paddle on Saturday, March 5, 2011 from 9:00 A.M. – Noon at Trammell Crow Park, 3700 Sylvan Avenue, Dallas, Texas 75207, www.dallasrunningclub.com.
 - b) CANCELLATION NOTICE: The Great Trinity Forest Adventure Hike scheduled for Saturday, February 5, 2011 has been cancelled due to the inclement weather. We will attempt to rescheduled and provide that information as it becomes available.
5. **Upcoming Potential Items for Council Agenda (2/23/11)**
 - a) Authorize acquisition, including the exercise of the right of eminent domain, if such becomes necessary, from Wes Ratcliff, of a tract of land containing approximately 7175 square feet located near the intersection of Comal and Cliff Streets for the Dallas Floodway Levee portion of the Trinity River Corridor Project - Not to exceed \$16,100 (\$14,300, plus closing costs not to exceed \$1,800) – 2006 Bond Funds
 - b) Authorize acquisition, including the exercise of the right of eminent domain, if such becomes necessary, from Fernando Martinez and Jose Jesus Martinez, of an unimproved tract of land containing approximately 3.89 acres locate near the intersection of Winnetka Avenue and Canada Drive for the Dallas Floodway Project - Not to exceed \$14,938 (\$12,438, plus closing costs not to exceed \$2,500) - Financing: 2006 Bond Funds
 - c) Authorize acquisition, including the exercise of the right of eminent domain, if such becomes necessary, from Loshel Company, of an unimproved tract of land containing approximately 11.3 acres located near the intersection of Lamar Street and Starks Avenue for the Trinity Parkway portion of the Trinity River Corridor Project - Not to exceed \$398,000 (\$394,000 plus closing costs not to exceed \$4,000) – Financing: 1998 Bond Funds

- d) Authorize acquisition, including the exercise of the right of eminent domain, if such becomes necessary, from Loshel Company, of a total of three (3) tracts of land containing approximately 10.3 acres located near the intersection of Lamar and Pine Streets for the Trinity Parkway portion of the Trinity River Corridor Project - Not to exceed \$1,137,600 (\$1,127,600 plus closing costs not to exceed \$10,000) – Financing: 1998 Bond Funds
- e) Authorize an increase to the existing construction services contract with BAR Constructors, Inc. for additional drilled pier concrete reinforcement, removal of a concrete wing wall and additional pump discharge modeling on the Pavaho Storm Water Pump Station of the Trinity River Corridor Project - Not to exceed \$90,382.00 from \$26,532,270.00 to \$26,622,652.00 - Financing: 2006 Bond Funds
- f) Authorize Supplemental Agreement No 1 to the existing professional services contract with URS Corporation for additional design services on the Levee Interior Drainage System (up to 35% design plans for pump stations including Charlie, Delta, Hampton, and Trinity Portland, and Nobles Branch Sumps) - Not to exceed \$250,000 from \$3,600,000 to \$3,850,000 - Financing: 2006 Bond Funds
- g) Authorize Supplemental Agreement No. 3 to the professional services contract with Carter & Burgess, Inc., a wholly owned subsidiary of the Jacobs Engineering Group, Inc., for additional design services on the Pavaho Pump Station and Baker Pump Station to address Federal Emergency Management Agency (FEMA) and U.S. Army Corps of Engineers (USACE) requirements - Not to exceed \$2,145,000, from \$11,878,440 to \$14,023,440 - Financing: 2006 Bond Funds



David A. Neumann, Chairman
Trinity River Corridor Project Committee



THE TRINITY
DALLAS

Cc: Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Ryan S. Evans, First Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
A. C. Gonzalez, Assistant City Manager
Forest E. Turner, Assistant City Manager

Deborah A. Watkins, City Secretary
Frank Libro, Director, Public Information Office
Kelly High, Director, Trinity Watershed Management
Rebecca Rasor, P.E., Managing Director, Trinity River Corridor Project
Paul D. Dyer, Director, Park and Recreation Department
Theresa O'Donnell, Director, Sustainable Development & Construction



Trinity River Corridor Project Committee Meeting Record

The Trinity River Corridor Project Committee Meetings (TRCPC) are recorded. Agenda materials and audiotapes may be reviewed/copied by contacting the Trinity River Corridor Project Committee Coordinator at 214-671-9500.

Meeting Date: 1/18/2011

Convened: 11:14am

Adjourned: 12:22pm

Committee Members Present:

David Neumann, Chairman
Steve Salazar, Vice Chairman
Mayor Pro Tem Dwaine Caraway
Deputy Mayor Pro Tem Pauline Medrano
Carolyn R. Davis
Vonciel Jones Hill
Delia D. Jasso
Linda Koop
Ann Margolin

City Staff Present:

Jill A. Jordan, P.E., ACM
Kelly High, TWM
Rebecca Rasor, P.E., TWM
Elizabeth Fernandez, P.E., TWM

Committee Members Absent:

Other City Councilmember's Present:

AGENDA:

1. Approval of minutes for December 7, 2010 Trinity River Corridor Project Committee Meeting

Presenter: David A. Neumann, Chairman

Action Taken/Committee Recommendation(s):

Motion made by:	<u>Linda Koop</u>	Motion seconded by:	<u>Vonciel Jones Jill</u>
Item passed unanimously:	<u>X</u>	Item passed on a divided vote:	<u> </u>
Item failed unanimously:	<u> </u>	Item failed on a divided vote:	<u> </u>

2. Periodic Inspection Report No. 9 – Maintenance Deficiency Correction Period (MDCP) December 2010 Update (Memo for discussion)

Presenter: Elizabeth Fernandez, P.E., Trinity Watershed Management

3. Interior Drainage System - Pump Stations Update

Presenter: Kelly High, Trinity Watershed Management

4. Standing Wave and Santa Fe Trestle Trail

Presenter: Rebecca Rasor, P.E., Trinity Watershed Management

5. Upcoming Event

- a) Great Trinity Forest Adventure Hike, Saturday, February 5, 2011 from 9:00 A.M. – 12:00 P.M. at Rochester Park, 3000 Municipal Street, Dallas, TX 75215

APPROVED BY:

David A. Neumann, Chairman
Trinity River Corridor Project Committee

ATTEST:

Crystal Lee, Senior Office Assistant
Trinity River Corridor Project Committee

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Ann Margolin

Carolyn R. Davis

SUBJECT **Periodic Inspection Report No. 9**
Maintenance Deficiency Correction Period (MDCP) January 2011 Update

As of January 31, 2011, the City has completed **191** of the 198 items in the MDCP plan. The MDCP plan is the action plan staff submitted to the US Corps of Engineers (Corps) to address the O&M deficiencies in the levee system as described in the Periodic Inspection Report No. 9 (PI #9).

Six items were completed in January 2011, all of which were related to tree removal. The City is scheduling time with the Corps for their inspection. The remaining **seven** MDCP items will take several months to complete due to either their complexity, required coordination with the Corps and/or being tied to the completion of current construction projects in the Trinity River. A brief description of these seven items are as follows:

- A plan related to systematically inspect pipes, culverts or conduits in the levees - a plan has been submitted to the Corps and will be removed from this list upon Corps' approval
- An issue related to an encroachment in the flood plain due to construction equipment for the Margaret Hunt Hill Bridge – this issue will be addressed upon completion of the bridge construction
- Two items are related to locating or obtaining permits for multiple utility crossings at the Central Wastewater Treatment Plant Levee – plans to address the multiple utility crossings have been submitted to the Corps and discussions on the resolution of the utility crossings are underway
- Three items are related to erosion – two of which will be addressed after the completion of the Standing Wave project and one that will be addressed towards the completion of the Margaret Hunt Hill Bridge

If you have additional questions, please let me know.



Jill A. Jordan, P.E.
Assistant City Manager



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Helena Stevens-Thompson, Assistant to the City Manager
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SUBJECT **Dallas Floodway System Update 100-Year Levee Remediation**

The attached briefing will be presented at the Trinity River Corridor Project Committee meeting on February 8, 2011 at 9:30 A.M. This briefing provides an update on the progress of the 100-year levee remediation and outlines the next steps, including the estimated timeline for making the 100-year levee fixes

If you have additional questions, please let me know.

Jill A. Jordan, P.E.
Assistant City Manager



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THE TRINITY
DALLAS

Dallas Floodway System Update 100-Year Levee Remediation

Presented to
Trinity River Corridor Project Committee
February 8, 2011

In Summary...

- The City and Corps are committed to protecting people and property
- The Corps has provided preliminary data related to the additional soil strength testing which is scheduled to be complete in March 2011
- Based on the preliminary data, design solutions are expected to be within the original \$100M - \$150M set aside for this project
- The Corps and City have agreed on the design approach and path forward
- The City and Corps are committed to completing these fixes by December 2011 in order to stop the issuance of revised flood maps



Outline

- Purpose
- Project Overview
- Additional Soil Strength Testing Results
- Path Forward -100-year Levee Remediation Plan
- Next Steps

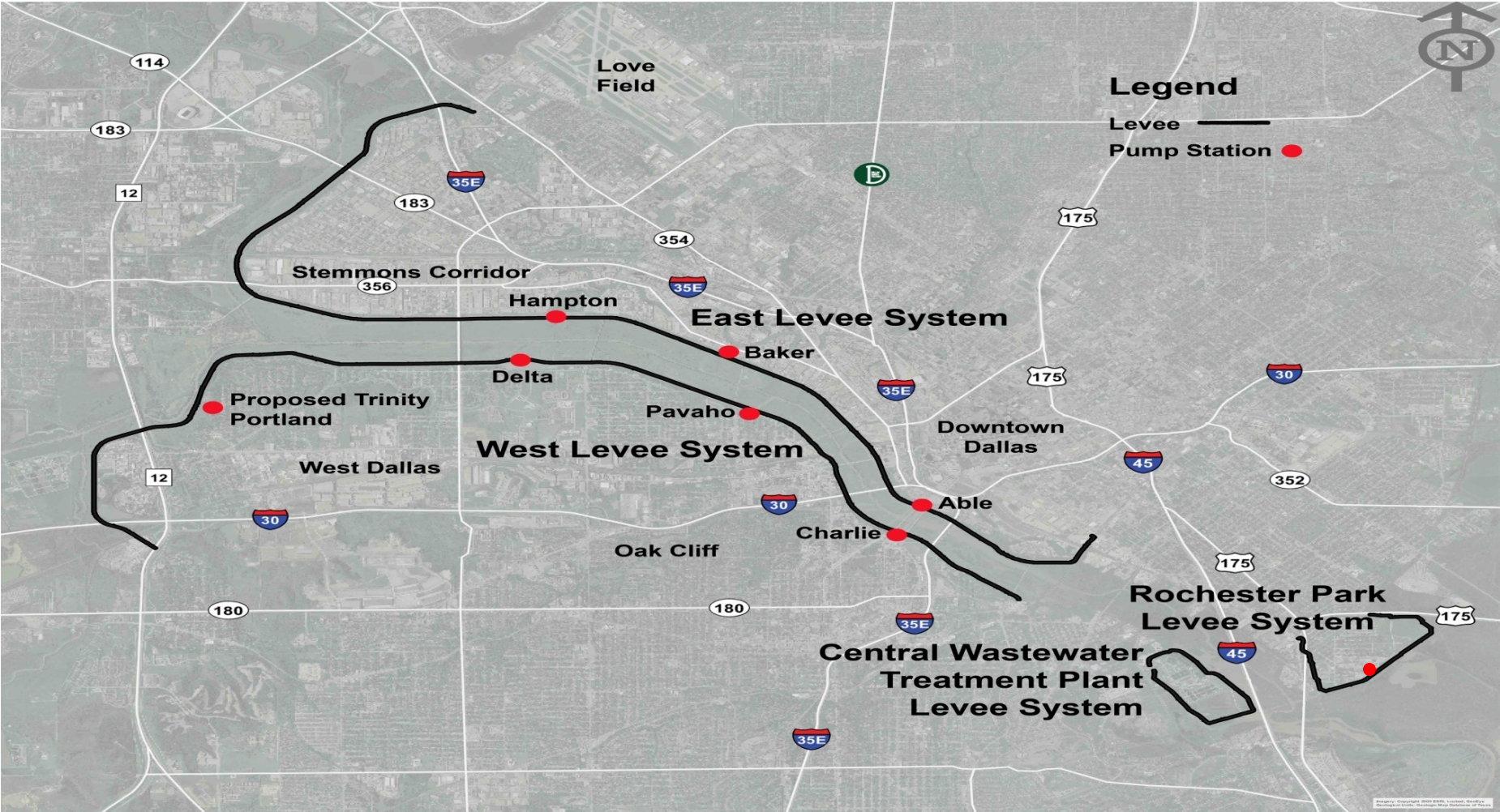


Purpose of Briefing

- Provide an update of the progress to date for retaining FEMA certification that the Dallas Floodway System Levees can withstand the 100-year flood (flood that has a 1% chance of being equaled or exceeded in a given year)
- Outline the steps, including solutions, timeline and funding, for making the 100-year levee fixes before FEMA remaps



Dallas Floodway System Map



- **Flood Protection is of critical importance to the City and the Corps**
- Dallas Floodway System protects billions of dollars of property value
- Dallas Floodway System historically received **good, very good or excellent ratings** on annual and periodic (every 5 years) inspections
- Our levees still meet the standards to which they were built by the Corps in the 1950's



Overview (cont'd)

- After Hurricane Katrina, a National Levee Safety Program was instituted resulting in more rigorous and nationally uniform criteria for inspecting levee systems
- Dallas Floodway Levee System was one of first levee systems in a major American City to be inspected based on new rating criteria
 - As of 2008, over 200 US levees failed inspection by the Corps
 - Those cities/local flood control districts will have to bear entire cost of correction unless they are in a cost sharing partnership with the Corps – most are not
 - City is currently in a cost sharing partnership with the Corps for the Dallas Floodway Environmental Impact Statement (EIS)



Overview (cont'd)

- Under this new criteria, the Corps issued Periodic Inspection Report 9 (PI #9) in March 2009 and rated the Dallas Levee System “unacceptable”
 - Deficiencies of two types were identified:
 - Operations & Maintenance (O&M) such as vegetation, siltation and erosion
 - To date approximately, **191** of the 198 items have been addressed as of January 2011
 - The City will request an extension of PL 84-99, to be approved by the Corps on March 31, 2011
 - System wide issues such as levee height, seepage and stability
 - Levee height and stability issues were the fundamental drivers for the Trinity River Corridor Project and the partnership with the Corps since 1993



Overview (cont'd)

- As a part of our partnership with the Corps, the City and the Corps expanded the scope of the current EIS to include study of levee deficiencies. This is called the System Study (800-Year Levee project)
 - System Study is underway to identify and address system-wide deficiencies
- Concurrent with this System Study, the City through its contractor (HNTB) has been working to identify “fixes” to the levee system to safely pass the 100-year flood



City's Project Scope for the 100-year Fixes

- In April 2010, Council was briefed on preliminary problem areas and the likely fixes
- The City must fix 3 levee systems
 1. Central Wastewater Treatment Plant (CWWTP)
 2. Rochester
 3. Dallas Floodway (East and West levees)
- 100 year fixes include installation of seepage cut-off walls, mitigation of utility crossings of the levee and strengthening of the MSE wall at the Rochester Levee



Schedule: 100-Year Levee Remediation Plan

- Original Schedule:

- ✓ Feb 2010: Submitted Draft Levee Remediation Plan
- ✓ Apr 2010: Completed geotechnical field investigations
- ✓ May 2010: Began design of proposed fixes
- ✓ Jun 2010: Submitted lab test results
- ✓ Aug 2010: Submitted design analyses and Draft Master Plan for the 100-year levee fixes
- ✓ Aug 2010: Submitted Draft Environmental Assessment document
- Sept 2010: Advertise Construction
- Nov 2010: Corps Approval and Construction Begins

✓ Indicates completed task



Preliminary Fully Softened Shear Strength Results

- As part of the technical review process, it was determined that additional site specific testing for fully softened shear strengths (FSSS) needed to be conducted
 - The Corps agreed to conduct these tests at their Engineering Research and Development Center
 - As of January 31, the City has received preliminary results from 52 tests, which is approximately 30% of the total



Preliminary Fully Softened Shear Strength Results

- Additionally, the Corps is beginning to conduct multi-point liquid limit tests to ensure the FSSS test data can be appropriately applied throughout the entire levee system. These results are expected in April 2011
- These additional tests will provide increased confidence in the knowledge of the system, and are being accomplished at no additional cost to the City and within the original test schedule
- The Corps has committed to providing final FSSS test results and analysis by March 31, 2011



Preliminary Fully Softened Shear Strength Results

- As briefed on October 12th, the additional FSSS testing could have resulted in minor or major modifications to the overall design fixes
- Based on the preliminary results received to date, no major modifications are expected to move forward with the 100 year fixes
 - Corps/City goal is to have solutions that are integral to the overall Dallas Floodway Project, but the final determination on this will not be known until the completion of the System Study and EIS (May of 2014)

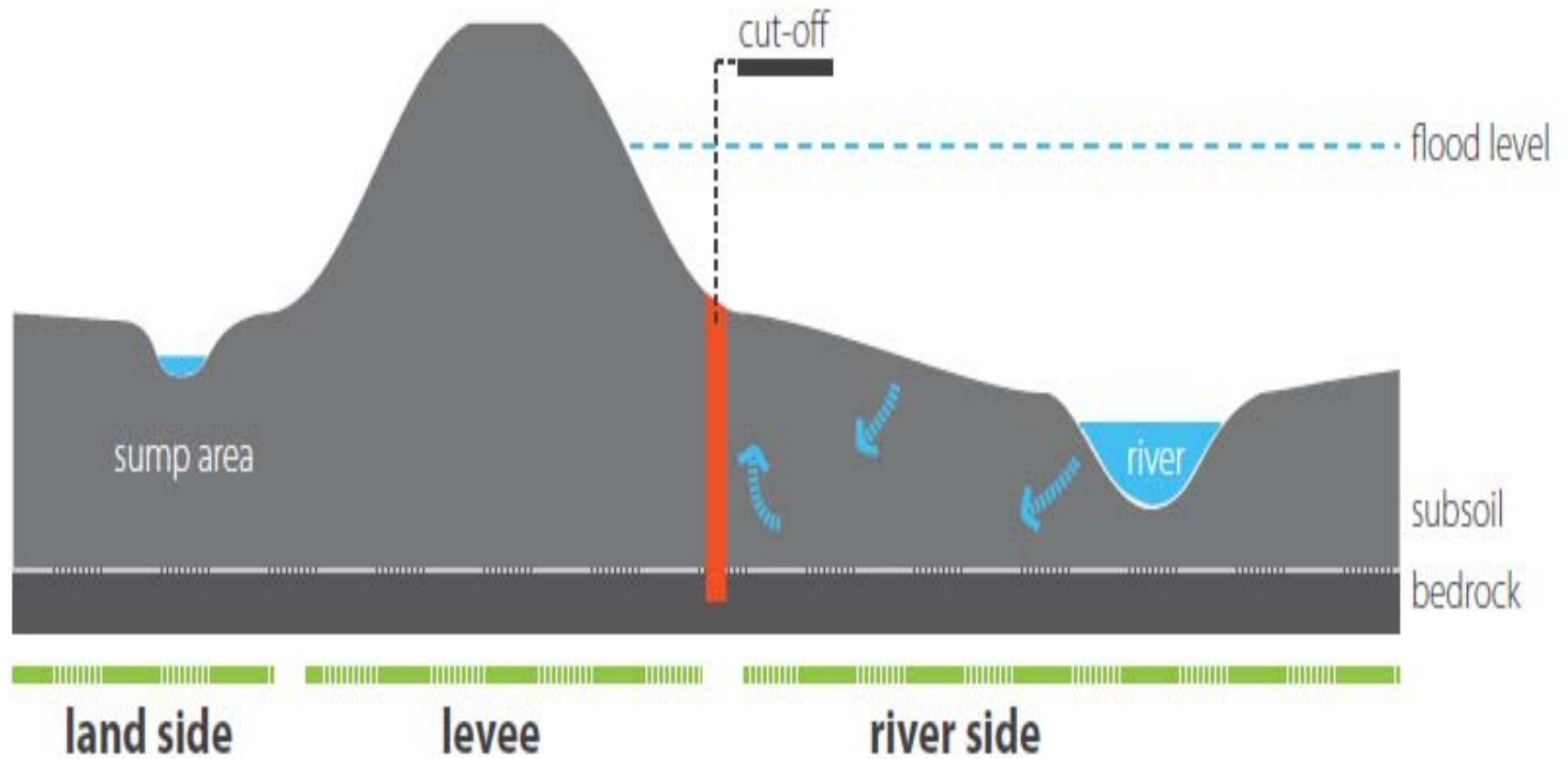


Proposed Solutions

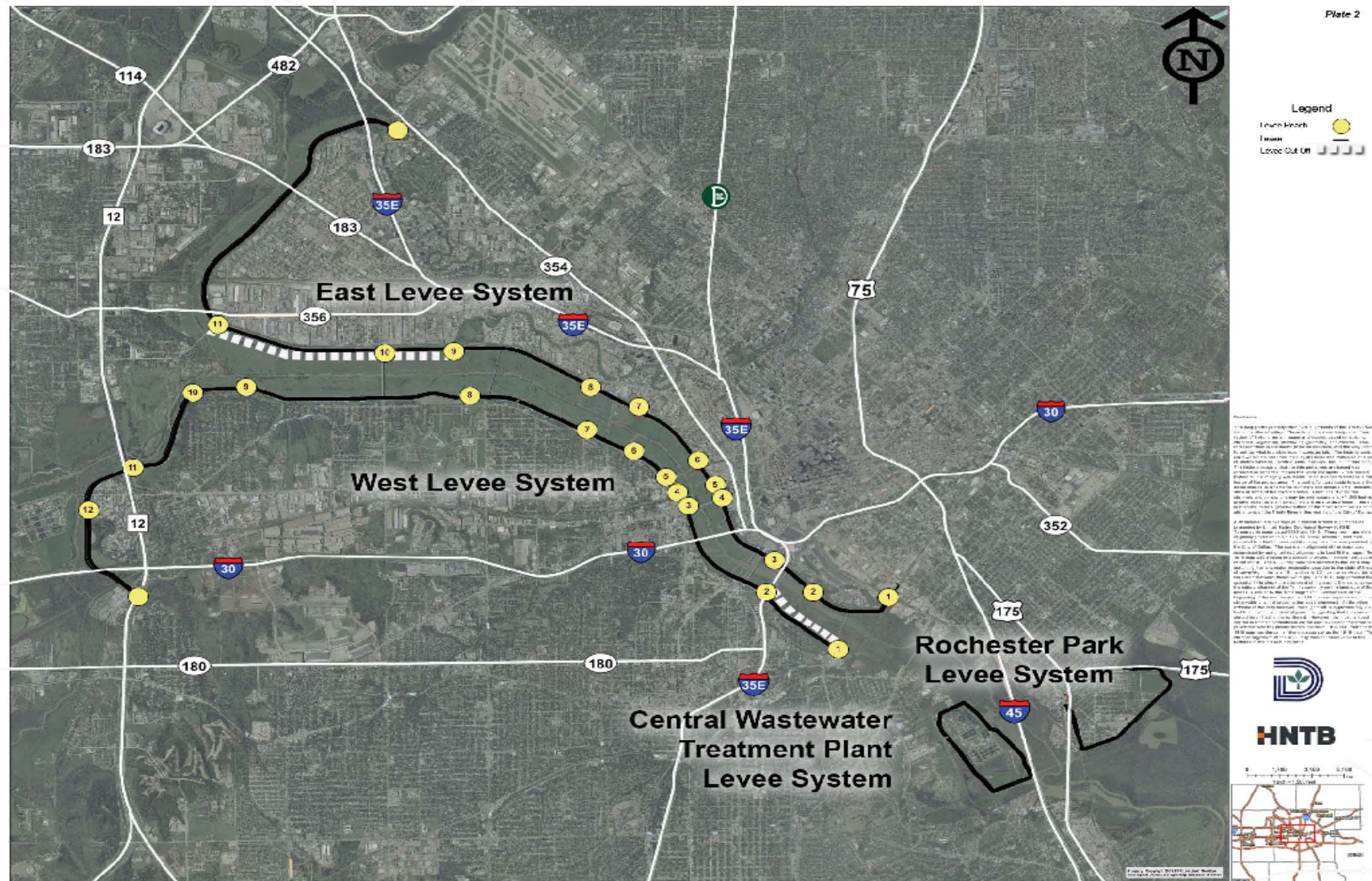
- Based on the preliminary results, 3 types of mitigation could be required to certify the levee with FEMA for the 100 year flood event:
 - Cut Off Walls
 - Utility Mitigation
 - Strengthening of the MSE wall at Rochester



Cut-off Wall Example

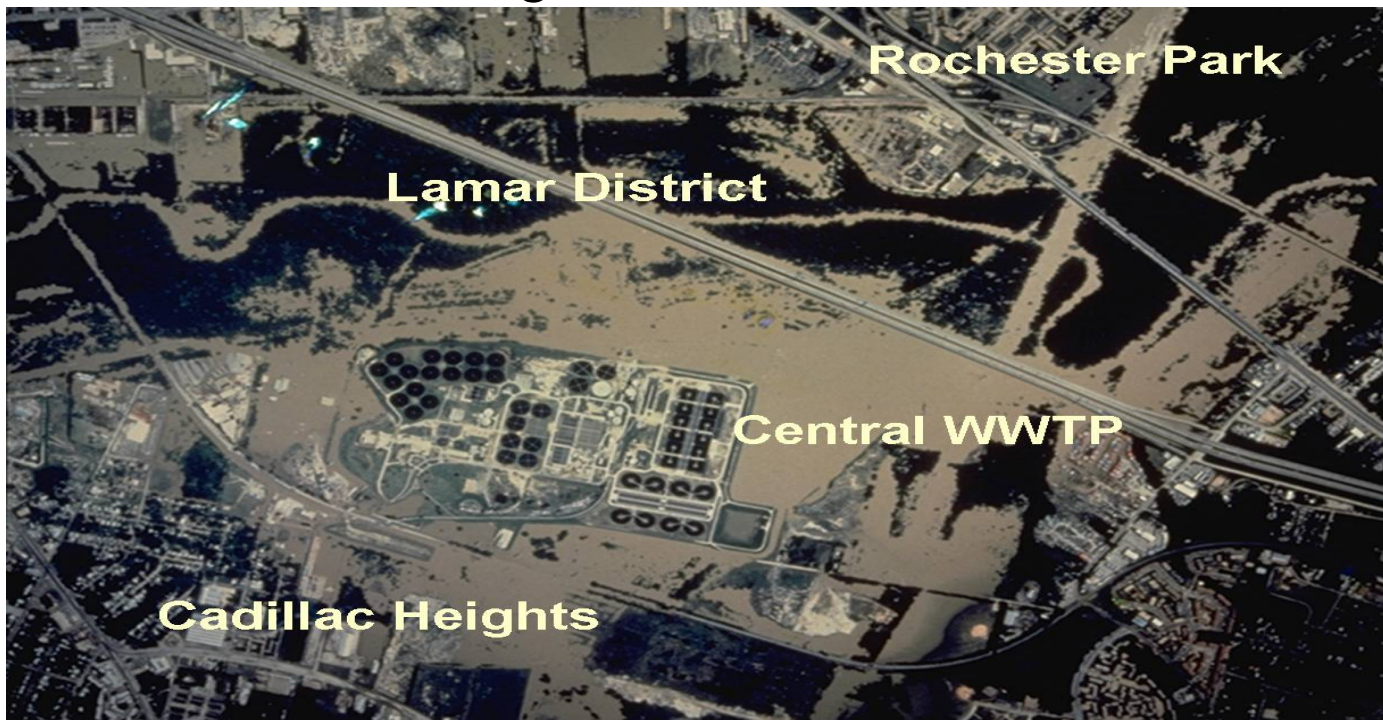


Cut-off Wall Locations - Based on preliminary results



1. Central Wastewater Treatment Plant - 100-Year Levee Remediation Plan

- No issues related to slope stability or under seepage for the 100-year flood event
- 100-year fix is to address the multiple utility crossings of the levee



2. Rochester Levee 100-Year Levee Remediation Plan

- The City will perform work at Rochester levee to ensure the December deadline will be met
- No issues related to slope stability or under seepage for the 100-year event
- 100-year levee fixes will include:
 - Addressing multiple utility crossings of the levee
 - Strengthening the existing MSE (Mechanical Stabilized Earth) wall with the installation of gabion reinforcement



3. Dallas Floodway Levees (East and West) 100-Year Levee Remediation Plan

- Measures are needed to address multiple utility crossings of the levee
- Cut-off walls are needed to address under seepage
- At this time, seepage mitigation is required for the 100 year even only at 3 reaches
 - East levee reaches 9 & 10
 - West levee reach 1
 - See map on page 17 for location of these reaches



100-Year Levee Remediation – Funding Plan

- The initial funding plan for construction of 100-year flood improvements was briefed to City Council in April 2010 consisting of:
 - Re-allocation of Flood Protection Bond Program projects (\$80M)
 - Stormwater Funds (\$45M)
 - Trinity Parkway Funds (\$15M)
 - Dallas Water Utility (DWU) Funds (\$10M)



Schedule: 100-Year Levee Remediation Plan

- Revised Schedule:
 - **March 2011:** Corps to Complete FSSS testing results and analyses
 - **April 2011:** Final testing data/analyses incorporated into design solutions (if needed)
 - **April 2011:** City submits draft 408 Master Plan, EA, and Preliminary design plans to the Corps for review
 - **May 2011:** Publish Environmental Assessment (EA) for public review
 - **May thru June:** City/HNTB and Corps review and finalize design plans, 408/EA documents



Schedule: 100-Year Levee Remediation Plan

- Revised Schedule (cont'd):
 - **June/July 2011:** City advertises and takes bids for Construction Contract(s)
 - **July 2011:** Corps approves 408 Master Plan and EA ; thereby permitting construction of the 100-year fixes
 - **August 2011:** City Awards Construction Contract(s)
 - **December 2011:** City completes construction and submits certification of levees to FEMA for the 100-Year level of protection



Next Steps/Actions

- **June 2011** – Report back to Council on detailed funding strategy
- **August 2011** – Obtain Council authorization to award 100 year levee remediation contract(s)



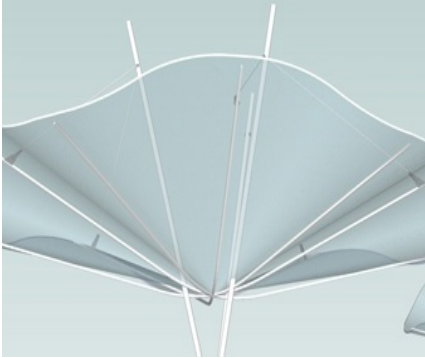
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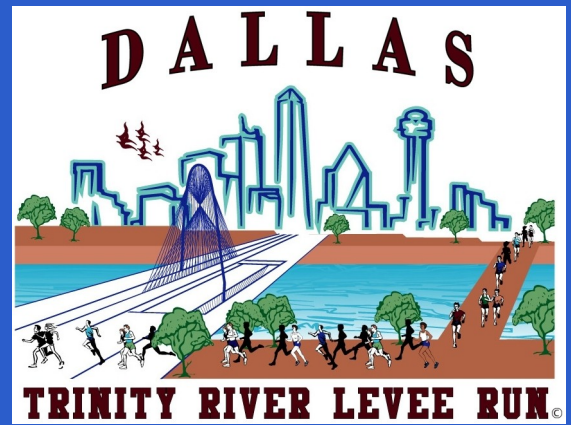


THE TRINITY
DALLAS



DISCUSSION

7th Annual Trinity River Levee Run



5K, 10K, 2- Mile Fun Run/Walk & Hometown Splashdown Kayak Clinic



Saturday, March 5, 2011

**Trammell Crow Park
3700 Sylvan Ave. Dallas, TX**

Register at www.dallasrunningclub.com

You are invited to participate in a morning of Dallas fun! Enjoy scenic views throughout the Arts District, Turtle Creek, and across the Continental Avenue Bridge in the 5K/10K. Take a jog atop the levees in the 2-Mile Fun Run/Walk with a view of the up-and-coming Margaret Hunt Hill Bridge. Become a kayaking guru at the Hometown Splashdown. But most of all, come have a good time and enjoy the outdoors!

Levee Run Schedule of Events

7:30 a.m.— Registration Begins
8:30 a.m.— Registration Closes
9:00 a.m.— Run Begins
9:30 a.m.— Hometown Splashdown Begins
12:00 p.m.— Event Completion

\$10 for Dallas Running Club Members,
\$20 for Non-Members
\$25 if registering the morning of the event
Registrants will receive timing chips and technical shirts.

Special thanks to sponsors and event partners:



MEDIA ADVISORY

City of Dallas Trinity River Corridor Project



A NEW FUTURE ➡

www.trinityrivercorridor.org

For Immediate Release:
February 2, 2011

Contact: Judy Schmidt, 214.671.9025 (W)
214.317.9685 (B); judy.schmidt@dallascityhall.com

Great Trinity Forest Adventure Hike Canceled

Low Temperatures and Icy Conditions Halt Weekend Event

- What:** Fun forest adventure event held at Rochester Park where members of the North Texas Orienteering Association, school ROTC programs, Master Naturalists, and the general public join in the outdoor fun and try their hand at navigating the forest with a compass and a map.
- When:** Saturday, February 5, 2011; 9:00 p.m. – noon
- Who:** Trinity River Corridor Project and the North Texas Orienteering Association.
- Where:** Rochester Park, Main Pavilion, 3000 Municipal Street, Dallas, Texas 75215



About the Trinity River Corridor Project:

THE TRINITY

The Trinity River Corridor Project is the largest and most complex public works and urban development project undertaken by the City of Dallas. When complete, the project's combined cost to local, state and federal agencies is projected to be \$2.5 billion. First and foremost, the Trinity River Corridor Project is a flood protection solution for the City. The project consists of five major components: flood protection, transportation, recreation, environment management, and business development. The Margaret Hunt Hill Bridge, designed by internationally known architect Santiago Calatrava, will open with festivities on October 14-16, 2011. A second Calatrava designed bridge, the Margaret McDermott Bridge (IH-30), is planned for a later date. The Trinity River Audubon Center (TRAC), a flagship location for the Texas Audubon Society, is a beautiful teaching and recreational site in the 6,000 acre Great Trinity Forest. The Standing Wave Kayak Park's official opening will be in early spring. For other project updates and to watch the bridge progress, visit: www.trinityrivercorridor.org.