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## City Administrator Report to Mayor & City Council

March 28, 2014, Edition No. 121

### Weekly Update:

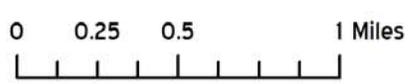
1. Community Gardens: Please find attached a map and bio page on the 2014 Muscatine Community Gardens provided by Annette Shipley, Iowa State University Extension & Outreach.
2. IISC: Please see the attached March project update for the ongoing University of Iowa Student projects. Please keep an eye out for upcoming dates when students will be displaying and reviewing their findings.
3. Bi-State: Attached is the March Commission Packet.
4. Hotel/Motel: The City received the hotel/motel tax payment today for the quarter ended December 31, 2013 (good quarter) and the attached summary has been updated with this information.
5. Public Surplus: Please see the attachment with the results from the latest public surplus auction.
6. Police: Attached is a brief summary of the drug dog transition provided by Chief Talkington. Due to illness the previous dog had to be put down. Officer Yates and his new dog "Nikko" will be transitioning into the position in the coming weeks.
7. Levee: Attached are a copy of the meeting notes from last night's Stakeholders meeting. Jon Fleishchman with with Army Corp spoke to the group on the current condition of the levee and other relevant topics.
8. Bi-State: Attached is a copy of the annual directly of public officials that Bi-State puts together.



Date Source: Muscatine Area Geographic Information Consortium, City of Muscatine  
 Prepared by: Andrew Fangman, City Planner  
 Date: March 24, 2014

# Muscatine Community Gardens

 Community Garden Location



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# MUSCATINE COMMUNITY GARDENS

*FOR QUESTIONS ABOUT COMMUNITY GARDEN OPPORTUNITIES AND TO CONNECT WITH MASTER GARDENERS, CONTACT THE COMMUNITY GARDEN COORDINATORS*

**Annette Shipley, ISU Extension**

**Kay Walter, Master Gardener**

**(563) 263-5701**

1514 Isett Avenue  
Muscatine, Iowa, 52761



## Solomon Gardens

1981 Solomon Road

Coordinator, Deb Brockhouse (563) 260-2072

Provides FREE garden plots. First come, first serve on plot sizes. Coordinator owns equipment to prepare the plot. Water available. Cooperative Gardening available in the maintenance of gardens and use of garden tools through signed agreements. Any extra produce encouraged to be taken to food pantry.

## East Campus

1409 Wisconsin Street (former Garfield School)

Coordinator, Lee Falkena (563) 263-0664

Plots are prepared and planted by local students. This garden is open to the community for those who want to assist in maintenance of it over the summer. You are allowed to harvest and keep produce.

## Wesley-MCSA

312 Iowa Avenue

Coordinator, Paul Carroll (563) 299-5474

Located in the alley behind MCSA. Garden supported by Wesley Church and maintained by neighborhood volunteers. Always can use more. Handicap accessible. Produce available to MCSA residents and other neighbors.

## Mulford Evangelical Free Church

2400 Hershey Avenue

Coordinator, Heather Harroun (563) 263-7489

Provides FREE garden plots, 10x10 or 10x20, with larger plots available based on availability. Plots are shovel ready and water is provided. Open daily from dawn to dusk. Gardeners keep their produce, encourage donations to free produce stand that takes place on Saturdays.

## Taylor Park

SW of Franklin Elem. School on Angle St.

Coordinator, Adam J. Thompson (563) 262-4141

Raised beds available for rent (seasonal fee): \$25-10x20, \$40-20x20, \$15-6x6 (enabled plots), Free-5x10 and 10x10 for youth only. Plots will be shovel ready, water availability (TBD), Open daily from dawn to dusk.

## Salvation Army Garden of Blessings

1000 Oregon St.

Coordinator, Captain Rick Ray (563) 263-8272

Two free raised beds available, responsible for entire maintenance of garden from preparing soil to harvest. Plots are given on first come, first serve basis.

### IISC-Muscatine February Update

- 1. Mississippi riverfront (Caitlin Shanahan):** The Muscatine Riverfront Group is off to a strong start this semester after a successful fall term. Thanks to all the support we received from the Muscatine community, we obtained over 300 responses to our public opinion survey, providing us with great insight into the preferences of Muscatine residents. We are now engaged in the process of creating site-specific designs based on the preliminary written visions contained in our fall work report and a comprehensive statistical analysis of the survey results.

In March, we will continue our community engagement efforts with a public open house, where we will present our ideas for the riverfront and open our ears to the comments and critiques of the community. Currently most of our efforts are focused on planning and promoting this event. We plan to market the open house with the help of many of the same community networks that assisted us in generating a high level of survey responses. We are also contacting planning departments in the cities we observed for our fall plan comparison to obtain information on the benefits their communities captured following riverfront redevelopment. This will help to reinforce our recommendations by highlighting the potential positive externalities associated with riverfront improvements.

As the semester progresses, we will be evaluating each of our proposed alternatives and developing a final recommendation based on each alternative's ability to satisfy community preferences, fulfill city planning goals, comply with constraints, and provide improvements that are financially feasible. Evaluating and refining the alternatives will require intense collaboration with stakeholders, including project partners and city staff. We will also be developing a framework for implementing the plan after our involvement in the project has come to an end.

- 2. Connectivity and wayfinding (Charlie Nichols):** We have developed prioritization criteria to assist in determining which trails and sidewalk improvements get built first. We also have a fully working wayfinding app with about 30 points of interest in it. In addition to this, we've built a GIS map with all of the sidewalks gaps in Muscatine in it.
- 3. Community empowerment social work project (Kayla Jacobs):** This week my group and I will begin the process of conducting interviews with members of the Muscatine community. Myself and another group member will be interviewing an individual at the Diversity Service Center of Iowa in Muscatine, and another pair will be conducting an interview with an individual affiliated with the Blue Zones Project. These interviews are part of the key informants section of our project, which is the beginning

stage of the community empowerment plan for the Latino community and health and wellness campaigns in Muscatine.

- 4. Branding and marketing of Muscatine (Lauren Patnoe):** The Marketing Institute is currently doing data analysis on the Livability of Muscatine survey we distributed to those living and/or working in Muscatine last semester. We plan on delivering results to the Muscatine Chamber of Commerce next week. In addition, we plan on reaching out to the Dubuque Chamber of Commerce in the next couple of weeks to discuss how their team was able to revive Dubuque's popularity over the last couple of years. Our ultimate goal is to deliver a couple of marketing/branding solutions based on the survey results to the Muscatine Chamber of Commerce by the end of the semester.
- 5. Blue Zones Project restaurant certification:** Nick met with Joni Axel in early January to discuss the state of the Blue Zones Project and the restaurant certification process. Due to the fact that Muscatine will be required to wrap up certification by May, utilizing the dietetic students to assist with restaurant certification did not appear to be a useful route to go. At this point, the IISC is waiting to hear from Muscatine Blue Zones Project regarding any additional help that is needed in the final stages of the effort in Muscatine.
- 6. Engineering projects:** All four engineering project teams met with Randy Hill and Jon Lutz the week of February 10<sup>th</sup>. Students discussed initial thoughts on the projects and conducted preliminary site visits (to the extent possible with the amount of snow on the ground). Students presented their initial proposals to Randy and Jon the week of February 17<sup>th</sup>. The four projects include:
  - a. Northeast corridor project: commercial development impacts, road connections, sewer extension, arterial and collectors for new development north and east of Highway 61/38 intersection.
  - b. Regional water detention plan for the Mad Creek watershed
  - c. Site analysis and design of a new Welcome Center on the southwest side of town near the Muscatine Soccer Complex and Kent-Stein Park. Students will produce 3-D designs of 3 preferred alternatives for the Welcome Center.
  - d. Recreational Trail System: development and design of a new trail connecting through the new Welcome Center site from the existing trail near the Muscatine Soccer Complex, linking up with the existing trail network at Discovery Park.
- 7. Public art project (Yelena Mass):** Yelena, Leslie Finer (ArtsShare Director), and Nick met with Melanie Alexander and others in late January to discuss potential sites and designs for a public art piece, to be created by Yelena Mass. Two sites that were discussed include along West 2<sup>nd</sup> Street near the corner of Pine St. and West 2<sup>nd</sup> (in front of the parking lot), as well as along the Mississippi Riverfront park. Yelena is working with Melanie to develop potential designs for one or two sculptures that could be placed on these sites. Yelena will ultimately build the sculpture(s) later this spring, with installation occurring in late spring/early summer.

- 8. Podcasts reflecting Muscatine's growth and development (Matt Gilchrist):** 6 groups of students will complete podcasts on 5 different topics, all surrounding the theme of Muscatine's recent growth and development. The podcast topics include: a podcast about the new construction and capital growth of Muscatine's companies, a podcast about downtown Muscatine and the historic buildings that are located downtown, a podcast about the developing restaurant scene in downtown Muscatine and the creation of Muscatine's first outdoor patios/seating areas for this summer, a podcast about the growth and promotion of community gardens in Muscatine and the Blue Zones Project, and a podcast about the Leadership Muscatine group, which is a group of young professionals that work together on building leadership skills and improving the community of Muscatine. The project kicks off March 10<sup>th</sup>, with students taking their first trip to Muscatine after Spring Break.
- 9. Dog park (ISU):** Matthew Gordy and Susan Erickson at ISU are the main points of contact on this project and will move forward with the dog park project design this spring.

## MEETING ANNOUNCEMENT AND AGENDA BI-STATE REGIONAL COMMISSION

Wednesday, March 26, 2014, 3:30 p.m.  
Scott County Administration Building  
600 West Fourth Street  
Davenport, IA

**FINANCIAL  
(green)**

**ACTION NEEDED  
(yellow)**

**INFORMATIONAL  
(white)**

- |   |   |   |  |   |
|---|---|---|--|---|
|   | X |   |  | 1. <u>Approval of the February 26, 2014 Minutes (See enclosed)</u> – Larry Minard, Chair  |
| X | X |   |  | 2. <u>Treasurer’s Report</u> (See enclosed) – Marty O’Boyle, Treasurer  |
|   |   |   |  | 3. <u>Finance and Personnel Committee/Financial Matters</u> – Chuck Austin, Chair,<br>Finance and Personnel Committee                                 |
| X | X |   |  | a. <u>Bills</u> (See enclosed)  |
| X |   | X |  | b. <u>Report on Progress on Commission’s FY 2014 Program Budget as of<br/>2/28/2014</u> (See enclosed)  |
| X | X |   |  | c. <u>Contracts/Grants for Consideration</u> – Denise Bulat, Executive Director   |
|   |   | X |  | 4. <u>Key Project Updates: I-74 Bridge Corridor, Ozone Standard Reconsideration, and<br/>Regional Freight Plan</u> – Denise Bulat, Executive Director |
|   |   | X |  | 5. <u>Kick-off of CEDS Progress Report 2014</u> – Mark Hunt, Economic<br>Development/Public Safety Manager  |
|   |   |   |  | 6. <u>Questions or Comments by Commissioners</u>  |
|   |   |   |  | 7. <u>Other Business</u>  |
|   |   |   |  | 8. <u>Adjournment</u>   |

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Agendas\BSRC Agenda.docx

**NEXT MEETING:** **Wednesday, April 23, 2014 – 3:30 p.m.**  
Scott County Administration Building  
600 West Fourth Street  
Davenport, Iowa

**MINUTES OF THE  
BI-STATE REGIONAL COMMISSION**

Wednesday, February 26, 2014, 3:30 p.m.  
Scott County Administration Building  
600 West Fourth Street  
Davenport, Iowa

**MEMBERS PRESENT:** Minard – Chair, Banaszek, Callaway-Thompson, Earnhardt, Furlong, Gluba, Goodwin, Gordon, Heninger, Hillman, Howard, Lawrence, Liddell, Meeker, Newton-Butt, Schloemer, Sherwin, Stoermer, Sunderbruch, Tank, Volz

**MEMBERS ABSENT:** Anderson, Austin, Conrad, Crouch, Gallagher, Hopkins, O’Boyle, Pauley, Raes, Thodos, Tossell, Washburn, Wells

**OTHERS PRESENT:** Jerry Taylor, Moline Dispatch Publishing Company; Tara Barney, Quad Cities Chamber of Commerce; Sonya Paddock, Mayor, City of Riverdale; Dawn Neuses, Moline Dispatch/Rock Island Argus

**STAFF PRESENT:** Bulat, Grabowski, Hunt, McCullough, Moritz

Chair Minard called the meeting to order at 3:33 p.m. Chair Minard asked for introductions of those present.

1. Approval of the January 22, 2014 Minutes. Mayor Gluba moved to approve the minutes of January 22, 2014 as presented. Ms. Earnhardt seconded the motion, and it passed unanimously.
2. Treasurer’s Report. Ms. Hillman presented the Treasurer’s Report for the month ending January 31, 2014, noting an ending total bank and book balance of \$453,756.90. Ms. Hillman moved the report be accepted as written and mailed. Mr. Gordon seconded the motion, and it passed unanimously.
3. Finance and Personnel Committee.
  - a. Bills. Ms. Hillman presented the bills totaling \$134,061.63, as listed on the following bills listing and addendum dated February 26, 2014:

**Bills List**

Hurt, Norton & Associates, January 2014 legislative technical service (cost reimbursed by participating member governments)	\$ 7,750.00
URS Corporation, Household Survey and Model Integration Project (reimbursed by Air Quality grants)	67,121.68

Addendum

Bancard Center, VISA charge card expenses related to 3 staff attending The Women's Conference; 2 staff attending the Transportation Research Board 93rd Annual Meeting; Illinois GIS Association membership; 2 staff attending the Iowa Bicycle Summit; Chief Elected and Chief Administrative Officials meeting (cost reimbursed by participants); 1 staff attending the Substance Abuse seminar; Manager's lunch (cost reimbursed by participants); Community Analyst Application License; office supplies	3,909.41
Louisa Ewert, Treasurer	5,835.54
03/2014                    Rent	\$4,618.38
03/2014            Internet Access	88.00
01/2014                    Postage	937.97
01/2014                    Supplies	11.10
01/2014            Cell Phone	180.09*
*(Partial costs reimbursed by HCEDP/Rural Accelerator Grant)	
Strategic Development Group, Inc., Innovation Hub Research (reimbursed by EDA grant)	49,445.00

Ms. Hillman moved approval of the bills totaling \$134,061.63 as presented above.  
 Mr. Stoermer seconded the motion, and it passed unanimously.

- b. Report on Progress on Commission's FY 2013 Program Budget as of January 31, 2014. Ms. Hillman explained the Program Budget Status Report was mailed in members' packets. The Commission is 58% through the fiscal year with 55.2% expended and within budget.
- c. Contracts/Grants for Consideration. There were no contracts for Commission approval.
4. Commission Committee Assignments. Chair Minard presented the list of the 2014-2015 officers and committees distributed in the agenda packet. Mr. Stoermer motioned to approve the Commission officers and committee assignments as presented. Mr. Furlong seconded, and the motion passed unanimously.
5. Update on 10-County Visioning Project. Mr. Taylor, Dispatch-Argus Publisher, and Ms. Barney, Quad Cities Chamber of Commerce President and CEO, provided an overview of a visioning effort involving over 100 businesses and investors in the greater Quad Cities Region. The Regional Opportunities Council has worked to assemble a regional vision for 2030 that identifies and advances opportunities for transformative growth in the greater Quad Cities Region.

The Greater Quad Cities Region is:

- recognized globally for growing and attracting talent and businesses
- energized by a culturally rich community
- inspiring innovation
- embracing lifelong learning

Mr. Taylor and Ms. Barney stressed that the heart of the effort is the concept of fostering area talent. This would be accomplished by growing the area's primary industries, assets, and entrepreneurial opportunities through the comprehensive vision, alignment of messages, and investment in the community. Growing primary industries would focus on advanced

manufacturing, agriculture, and logistics. Regional assets include a regional growth strategy, the Mississippi Riverfront, working river, infrastructure, and the Rock Island Arsenal.

The council suggests a three phase approach – organize a committee; endorse the effort to back the vision and align strategies to implement the vision; and demonstrate accomplishments. Following the presentation, comments and questions were addressed. Input included acknowledging the Mississippi River in the vision statement, defining the region geographically, and noting a regional freight study that will be started by June.

6. Investing in Manufacturing Communities Partnership Grant Presentation. Mr. Hunt, Economic Development/Public Safety Manager at Bi-State Regional Commission, updated the Commissioners on the status of the Investing in Manufacturing Communities Partnership (IMCP) grant, which was jointly received by the Commission and Quad Cities Chamber of Commerce in the fall of 2013. The grant award provides \$162,500 in planning assistance funds from the Department of Commerce, Economic Development Administration to create an implementation plan for a regional Metal and Multi-Materials (M3) Innovation Hub. The grant is matched by \$162,500 in local funds provided by public and private sector entities.

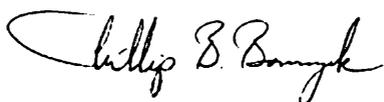
Mr. Hunt explained that currently the Chamber and Bi-State staff are working with Strategic Development Group (SDG) to write the M3 Innovation Hub Plan. A steering committee and multiple taskforces consisting of local manufacturing executives, government, and academic leaders are helping to guide the planning process. The Hub is intended to serve the innovation needs of the region’s manufacturers to help them compete on the global market.

Concurrently, SDG is assisting the region with an application to be one of 12 federally-designated Manufacturing Communities as part of the IMCP’s second phase, which will position the Innovation Hub for additional recognition and funding opportunities.

Mr. Hunt also spoke about the recent federal grant to University of Illinois Chicago Lab under the President's National Network for Manufacturing Innovation. Though the grant was received by the University of Illinois, it includes partnerships with many Quad Cities Institutions including the Quad City Manufacturing Lab, John Deere, and others. This larger federal award to conduct research related to digital manufacturing will likely help the region with its M3 Innovation Hub plan and *Manufacturing Communities* designation.

7. Questions or Comments by Commissioners. There were no additional questions or comments by Commissioners.
8. Other Business. There was no other business.
9. Adjournment. The meeting adjourned at 4:30 p.m.

Respectfully submitted,



Phillip Banaszek  
Secretary

**BI-STATE REGIONAL COMMISSION  
TREASURER'S REPORT  
FOR THE MONTH ENDING FEBRUARY 28, 2014**

	<u>Balance February 1</u>	<u>Deposits</u>	<u>Withdrawals</u>	<u>Balance February 28</u>
<b>GENERAL SAVINGS ACCOUNT BANK &amp; BOOK BALANCE:</b>				
Balance – February 1, 2014	\$ 451,726.32			
Add Deposits		\$ 548,591.19		
Less Transfers			\$ 343,586.42	
Balance – February 28, 2014				\$ 656,731.09
<b>RLF SAVINGS ACCOUNT BANK &amp; BOOK BALANCE:</b>				
Balance – February 1, 2014	\$ 1,170.24			
Add Deposits		\$ 0.14		
Less Transfers			\$ 0.00	
Balance – February 28, 2014				\$ 1,170.38
<b>CHECKING ACCOUNT BANK AND BOOK BALANCE:</b>				
Balance – February 1, 2014	(\$ 101,441.51)			
Add Deposits		\$ 241,018.05		
Less Checks Written			\$ 231,775.76	
Balance – February 28, 2014				(\$ 92,199.22)
<b>PAYROLL ACCOUNT BANK &amp; BOOK BALANCE:</b>				
Balance – February 1, 2014	\$ 2,301.85			
Add Deposits		\$ 102,551.87		
Less Checks Written			\$ 102,651.33	
Balance – February 28, 2014				\$ 2,202.39
<b>INVESTMENT ACCOUNTS BANK &amp; BOOK BALANCE:</b>				
Balance – February 1, 2014	<u>\$ 100,000.00</u>			
State Bank of Orion 12/25/13 - 6/25/14 (.20%)				
Add Investments Made		<u>\$ 0.00</u>		
Less Investments Matured			<u>\$ 0.00</u>	
Balance - February 28, 2014				<u>\$ 100,000.00</u>
<b>TOTAL BANK &amp; BOOK BALANCE:</b>				
Balance – February 1, 2014	<u>\$ 453,756.90</u>			
Deposits in February		<u>\$ 892,161.25</u>		
Withdrawals in February			<u>\$ 678,013.51</u>	
Balance – February 28, 2014				<u>\$ 667,904.64</u>
<b><u>PASS THROUGH FUNDS</u></b>				
<b>BI-STATE RLF ACCOUNT:</b>				
Balance – February 1, 2014	<u>\$ 907,385.47</u>			
Add Deposits		<u>\$ 19,913.47</u>		
Less Withdrawals			<u>\$ 150.00</u>	
Balance – February 28, 2014				<u>\$ 927,148.94</u>
<b>MERCER-MUSCATINE RLF ACCOUNTS:</b>				
Balance – February 1, 2014	<u>\$ 24,188.90</u>			
Add Deposits		<u>\$ 2,666.17</u>		
Less Withdrawals			<u>\$ 5.00</u>	
Balance – February 28, 2014				<u>\$ 26,850.07</u>

**BILLS TO BE CONSIDERED FOR APPROVAL  
AT THE MARCH 26, 2014  
BI-STATE REGIONAL COMMISSION MEETING**

Hurt, Norton & Associates, February 2014 legislative technical service (cost reimbursed by participating member governments)	\$ 7,750.00
City of Rock Island, Municipal Code Enforcement System proceeds	36,572.09
Thomas A. Skorepa, P.C., Administrative Hearing Officer services (cost reimbursed by MUNICES)	3,325.00
	<hr/>
TOTAL	<u>\$47,647.09</u>

Additional bills will be listed on the addendum which will be distributed at the meeting.

**BI-STATE REGIONAL COMMISSION**  
**FY 2013-14 Program Budget Status Report**  
**Through Month of February – 67% of Year**

<b>ADOPTED BUDGET:</b>	\$2,155,265.00	<b>EXPLANATION:</b>
<b>EXPENDED THROUGH FEBRUARY:</b>	\$1,358,307.82 (63.0%)	
<b>STAFF LEVEL BUDGETED:</b>	25.25 F.T.E.	
<b>STAFF LEVEL MAINTAINED:</b>	23.75 F.T.E.	

**MEMBER GOVERNMENTS SERVED DIRECTLY AND ACTIVITIES DURING FEBRUARY**

**ALEDO** – Website Support; RLF Coord. & Brochure Update; Transit Mobility/HSTP Png; Aerial Photo Coord. Asst.; Economic Develop. Strategic Plan Presentation.

**ALPHA** – HCEDP Participation; Transit Mobility/HSTP Planning.

**ANDALUSIA** – RICWMA Staffing; Riverfront Council; Website Support; Grant Assistance.

**ANDOVER** – HCEDP Participation; Transit Mobility/HSTP Planning; OSLAD Grant Inquiry.

**ATKINSON** – HCEDP Participation; Website Support; Transit Mobility/HSTP Planning.

**BETTENDORF** – Joint Purchasing; Scott Co. Housing Council; IAQC Transit Planner Coord. & Transit Issues; Riverfront Council; Solid Waste Coord.; I-74 Bridge Coord.; Drug/Alcohol Testing Consort.; RLF Loan Admin./Marketing; Trail Coord.; DOJ Interoperability; Air Quality Asst.; NSBP/EDA Apps.; QCICNet; Aerial Photo Coord. Asst.; STP Evaluation Process and Forest Grove Road/Drive Coordination.

**BLUE GRASS** – Reg. 9 Transportation Coord.; Solid Waste Coord.; Website Support; Aerial Photo Coord. Asst.

**BUFFALO** – Trail Planning Asst.; Riverfront Council; Solid Waste Coord.; Aerial Photo Coord. Asst.

**CAMBRIDGE** – HCEDP Participation; Website Support; Transit Mobility/HSTP Planning.

**CARBON CLIFF** – RICWMA Staffing; Joint Purchasing; Trail Planning; Aerial Photo Coord. Asst.; OSLAD Grants Inquiry

**COAL VALLEY** – Joint Purchasing; RICWMA Staffing; Aerial Photo Coord. Asst.; Village Board Strategic Planning.

**COLONA** – Joint Purchasing; Utilities GIS/Mapping.; OSLAD Grant Inquiry.

**CORDOVA** – RICWMA Staffing; Riverfront Council & Riverfront Planning; Website Support.

**DAVENPORT** – Joint Purchasing; Riverfront Council; RiverVision; Scott Co. Housing Council; Solid Waste Coord.; RLF Loan Admin.; Transit Funding & NTD Asst.; IAQC Transit Planner Coord.; QCICNet Interoperability Project; BRAC/OEA Coord.; Air Quality Asst.; Davenport Schools Haz. Mit. Plan; Legislative Priorities Asst.; IMCP/EDA Grant with QC Chamber; Aerial Photo Coord. Asst.; STP Evaluation Process and Forest Grove Road/Drive Coordination; STAR Communities Rating Information Asst.; RiverVision Input Mtg.

**EAST MOLINE** – IL QC Intergov. Comm.; E9-1-1 Coord.; Joint Purch.; RICWMA Staffing; RMS Coord.; Riverfront Cncl.; Interoperability Proj.; RLF Admin.; MUNICES; Air Quality Asst.; Trail Png; Consol. Disp. Study Asst.; QCICNet; Aerial Photo Coord. Asst.; STP Evaluation Process.

**ELDRIDGE** – Solid Waste Coord.; Drug & Alcohol Consort.; Website Support; Aerial Photo Coord. Asst.; STP Evaluation Process.

**GALVA** – Broadband Coord.; Transit Mobility/HSTP Planning; HCEDP Participation.

**GENESE** – HCEDP Participation; Website Support; Transit Mobility/HSTP Planning; PARC & OSLAD Grants Inquiry.

**HAMPTON** – RICWMA Staffing; Riverfront Council; Website Support; Shared Policing Agreement Assistance.

**HENRY COUNTY** – Joint Purch.; HCEDP Participation; Transit Mobility/HSTP Plan; Trail Coord.; Workforce Dev. Board; Legislative Priorities Asst.; Comprehensive Plan; EDA/USDA Grant; Evacuation Plan; Fact Sheet Update; Aerial Photo Coord. Asst.; Plan for HCEDP Springfield Trip; Floodplain Coord. Efforts.

**HILLSDALE** – Transit Mobility/HSTP Planning.

**KEWANEE** – Transit Mobility/HSTP Planning.

**LECLAIRE** – Joint Purchasing; Riverfront Council; Solid Waste Coord.; Trail Planning; Aerial Photo Coord. Asst.

**LONG GROVE** – Reg. 9 Trans. Coord.; Solid Waste Coord.; Website Support; Aerial Photo Coord. Asst.; Zoning Map Update.

**MCCAUSLAND** – Reg. 9 Trans. Coord., Solid Waste Coord.

**MILAN** – Joint Purchasing; RICWMA Staffing; IL QC Intergov. Comm.; E9-1-1 Coord.; RMS Coord.; RLF Admin.; Interoperability Project; MUNICES Coord.; Cons. Dispatch Study Asst.; QCICNet; Aerial Photo Coord. Asst.

**MOLINE** – MUNICES Coord.; IL QC Intergov. Comm.; E9-1-1 Coord.; Joint Purch.; I-74 Bridge Coord.; RICWMA Staff.; RMS Coord.; Riverfront Cncl; RLF Ln Adm.; Trails Coord.; Interop. Proj.; Rail Coord.; Air Qual. Asst.; Park/Rec Plan; Cons. Disp. Study Asst.; QCICNet; Aerial Photo Coord. Asst.

**MUSCATINE CITY** – Trail Planning; Reg. 9 Transportation Coord.; Solid Waste Coord.; Joint Purchasing; Air Quality Asst.; RLF Coord. & Brochure Update; Aerial Photo Coord. Asst.; Community Development-Housing Assessment.

**MUSCATINE COUNTY** – Trails Planning; Website Support/Development/Redesign; Reg. 9 Coord.; Solid Waste Coord.; Joint Purch.; Transit Mobility Coord.; Hazard Mitigation Plan; Air Quality Asst.; OEA Grant Coord.; EDA RLF Coord. & Brochure Update; Comprehensive Plan; Aerial Photo Coord. Asst.

**NEW BOSTON** – Website Support; Grants Inquiry.

**OAK GROVE** – E9-1-1 Coord.; Consolidated Dispatch Study.

**ORION** – HCEDP Participation; Website Support; Transit Mobility/HSTP Planning; Water System Mapping.

**PORT BYRON** – RICWMA Staffing; Riverfront Council; Zoning Administration.

**PRINCETON** – Riverfront Council; Solid Waste Coord.; Trail Planning; Aerial Photo Coord. Asst.; Zoning Map Inquiry.

**RAPIDS CITY** – RICWMA Staffing; Riverfront Council.

**RIVERDALE** – Riverfront Council; Trail Coord.; Solid Waste Coord.; Website Support; Haz Mit Plan.

**ROCK ISLAND CITY** – IL QC Intergov. Comm.; E9-1-1 Coord.; Joint Purch.; Riverfront Cncl.; RiverVision; RICWMA Stfg.; MUNICES Coord.; RMS Coord.; RLF Loan Adm.; Interop. Proj.; Air Quality Asst.; Workforce Dev. Bd.; Consol. Dispatch Study App; QCICNet; Aerial Photo Coord. Asst.; Status of EDP Appl.; STP Eval. Process, Comp Plan Open House.

**ROCK ISLAND COUNTY** – E9-1-1 Coord.; LEPC Committee; IL QC Intergov. Comm.; RICWMA Stfg & Website Support; Joint Purchasing; Trail Coord.; WIB Part.; RMS Coord.; Transit Mobility/HSTP Planning; Passenger Rail; Floodplain Coord. Efforts; Air Quality Asst.; Legislative Priorities Asst.; QCICNet; Evacuation Plan; Hazard Mitigation Png. Appl.; QC Health Initiative; STP Evaluation Process; Graphics Asst. – Sheriff's Dept., Forest Preserve Brochures; Grants Inquiries; Highway Safety Png.

**SCOTT COUNTY** – Financial Management – Scott Co. KIDS; Scott Co. Hsg. Cncl.; Joint Purchasing; I-74 Bridge Coord.; Trail Png.; RLF Admin.; Reg. 9 Transportation; Transit Mobility/HSTP Planning; Interop. Project; Goals Booklet; OEA; Passenger Rail; Housing Assessment; Budget Report; Air Quality Coord.; Solid Waste Coord.; Aerial Photo Coord. Asst.; QC Health Initiative.

**SHERRARD** – Website Support; Transit Mobility/HSTP Planning; Joint Purchasing Council Info.

**SILVIS** – E9-1-1 Coord.; Joint Purchasing; IL Intergov. Comm. Coord.; RICWMA Stfg.; RMS Coord.; Trail Planning; Consol. Dispatch Study App.; QCICNet; Aerial Photo Coord. Asst.; Mapping Asst.; Utilities GIS/Mapping; Grants Inquiry.

**VIOLA** – Transit Mobility/HSTP Planning; CDAP Grant Inquiry.

**WALCOTT** – Reg. 9 Transportation; Solid Waste Coord.; Trail Coord.; RLF Marketing; Aerial Photo Coord. Asst.; Zoning Map Update.

**WEST LIBERTY** – Reg. 9 Transp.; Solid Waste Coord.; Website Support; Muscatine Co. Haz Mit Plan; Air Quality Coord.; Muscatine Co. Comp Plan; Fact Sheet Inquiry.

**WILTON** – Reg. 9 Transportation; Solid Waste Coord.; Muscatine Co. Haz Mit Plan; EDA Application; Air Quality Coord.; Zoning Map Update.

**WINDSOR** – HCEDP Participation; Transit Mobility/HSTP Planning.

**WOODHULL** – HCEDP Participation; Transit Mobility/HSTP Planning.

## **Bi-State Report – February**

**COMMUNITY/ECONOMIC DEVELOPMENT:** Attended Henry County Economic Development Partnership (HCEDP) meetings. Continued administration of Economic Development Administration/United States Department of Agriculture Rural Jobs and Innovation Challenge Grant Program on behalf of multiple member governments in Henry, Mercer, and Rock Island Counties. Attended IA RELAT meetings. Attended Iowa Regional Council, Illinois Regional Council, and Northwest Municipal Association meetings. Assisted members with legislative priorities. Held steering committee and task force meetings for the Regional Investing in Manufacturing Communities Partnership Program in partnership with the Quad Cities Chamber of Commerce. Continued work on a grant application for a Mississippi Riverfront Land Use and Economic Development Analysis.

### **DATA/GRAPHICS/MAPPING/ON-LINE SERVICES:**

**Data Center:** Staff responded to approximately 7 data and map requests in February 2014 including 5 from local governments, 1 from an academic institution, and 1 from a business. The data section of the Bi-State website had 34 page views. The data warehouse site ([www.greaterqcregion.org](http://www.greaterqcregion.org)) had 213 visits and 436 page views. Staff completed the 1st Quarter ACCRA cost of living survey for the region, provided data for two member's comprehensive plan updates, and continued work on the 2045 Long Range Transportation Plan.

**Graphics/Mapping:** 2014 Aerial Photo Flyover Coordination; 2045 Long Range Transportation Plan Coordination; Distribution of 2008-09 QC Street Map (Folded & Wall Versions); Eastern Iowa Community College District Mapping; Joint Purchase Program Graphics Assistance; Surface Transportation (STP) Ranking Assistance; Transit Development Plan Mapping; Travel Model Data and GIS Assistance; Update/Maintain GIS Data for Street Centerlines, Traffic Counts, MPA Boundary, Federal Functional Class Routes, Urban Areas, Corporate Limits, Landmarks, Rail, Trails, and other layers.

**www.bistateonline.org.** Total pages viewed for February 2014 was 2,310 and top pages viewed included: Home Page (742); Joint Purchasing Council & Bid Tabulations (259); Documents Section (91); Our Staff (89); Contact Us (52); Careers (40); Who We Are (38); and QC Metro Transportation Improvement Plan (TIP) (36).

**ENVIRONMENTAL, RECREATION, RIVERFRONT SERVICES:** Responded to inquiries & assisted with trail/recreation project funding assistance/grants. Served RICWMA with coordination of meetings, oversight and management of waste disposal and recycling programs, reporting, and overall agency administration. Responded to Rock Island County Waste Management Agency telephone inquiries from general public & media concerning solid waste and recycling issues. Attended River Action meetings. Continued coordination of issues related to Bi-State Region Clean Air Partnership and strategies for emission reduction. Continued "Make Air Quality Visible" strategic plan update process. Continued multi-jurisdictional hazard mitigation planning. Organized bi-monthly meeting of Quad City Riverfront Council.

**INTERGOVERNMENTAL FORUMS AND REGIONAL SERVICES:** Continued assistance to the Joint Purchasing Council (JPC). Worked on the following bids: Turf Chemicals and Seed; Spring Paper; Janitorial; Can Liner; and Food Service Supplies. Staffed Quad Cities Area intergovernmental forums and meetings of area recreation directors, managers and administrators, and chief elected officials. Continued coordination and planning for the awarded Department of Justice interoperability grant. Assisted with Rock Island Arsenal issues.

**REVOLVING LOAN FUND (RLF):** Administered Bi-State RLF Program: Prepared meeting cancellation notice and financial summary report. Provided information to potential applicants. Continued receiving job creation information from active companies. Administered Mercer/Muscatine RLF Program (MMRLF): Provided information to potential applicants. Assisted in MMRLF Board recruitment.

**TRANSPORTATION PLANNING, PROGRAMMING AND PROJECT DEVELOPMENT:** Attended related meetings, presented information, and continued staff coordination of river crossing issues. Monitored progress of household travel survey and continued travel model enhancements project with consultant team. Worked on urban *2045 Long Range Transportation Plan* travel model development. Continued IL Region evacuation planning effort. Participated in Iowa QC interdisciplinary traffic safety team meeting and held Illinois QC meeting with ILDOT. Monitored status of MAP-21 implementation. Prepared monthly reports of federal transportation programs and coordinated related funding/reporting. Continued air quality emission reduction efforts of Air Quality Task Force. Worked on connections of American Discovery Trail (ADT)/Grand Illinois Trail and Mississippi River Trail, and attended related meetings, as well as other trail planning and grant assistance. Organized bi-monthly meeting of the Bi-State Regional Trails Committee. Coordinated Bi-State Drug and Alcohol Testing Consortium, prepared Request for Proposal, and continued random testing program. Monitored urban and Iowa Region 9 FY14 Transportation Planning Work Program and FFY14-17 TIPs, and need for data entry in Iowa TPMS as part of transportation improvement programming. Initiated MPO FY15 Transportation Planning Work Program. Conducted Metropolitan Planning Organization (MPO) Surface Transportation Program project selection process. Administered IAQC and Illinois Region 2 transit coordinator positions. Facilitated MAP-21 transit funding issues and assisted with NTD data analysis. Prepared Regional Transit Development Plan update. Presented Quad Cities MPO Long Range Transportation Plan public involvement outline. Served inquiries and assisted with transportation funding programs and transportation information for legislative efforts. Participated in Iowa Bicycle Summit and Quad Cities Air Service Committee. Participated in transportation webinars on various topics.

City of Muscatine  
Hotel/Motel Tax Receipts  
1981 Through the Quarter Ended December 31, 2013  
Calendar Year Basis

(Reflects Sales Tax for the Quarter Indicated Received by the City in the Following Quarter)

	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
<b>Quarter Ended:</b>										
March 31	N/A	\$ 19,232.96	\$ 18,681.98	\$ 20,297.13	\$ 18,009.11	\$ 16,709.02	\$ 17,009.89	\$ 17,569.02	\$ 23,469.48	\$ 26,448.19
June 30	22,524.49	21,870.19	21,848.36	21,360.82	20,456.33	16,722.85	17,434.77	20,999.14	24,891.65	30,498.07
September 30	22,943.58	22,440.75	22,663.46	22,541.57	21,131.85	20,424.40	17,824.69	26,701.15	29,046.75	32,003.03
December 31	20,019.16	17,739.93	20,000.55	18,367.11	15,842.84	14,163.27	21,787.58	21,108.93	23,155.62	22,971.37
<b>Totals</b>	<b>\$ 65,487.23</b>	<b>\$ 81,283.83</b>	<b>\$ 83,194.35</b>	<b>\$ 82,566.63</b>	<b>\$ 75,440.13</b>	<b>\$ 68,019.54</b>	<b>\$ 74,056.93</b>	<b>\$ 86,378.24</b>	<b>\$ 100,563.50</b>	<b>\$ 111,920.66</b>

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>
<b>Quarter Ended:</b>										
March 31	\$ 24,305.78	\$ 27,711.87	\$ 60,894.40	\$ 24,483.42	\$ 44,578.12	\$ 51,405.94	\$ 54,742.68	\$ 61,102.75	\$ 67,404.48	\$ 59,417.74
June 30	31,847.41	54,074.28	56,858.82	82,397.18	76,758.21	68,952.70	74,099.44	82,774.25	73,742.69	74,119.67
September 30	34,881.63	62,854.35	67,253.12	79,392.19	70,042.93	78,281.78	76,141.18	86,567.88	96,915.22	76,958.27
December 31	25,472.90	33,368.49	55,666.56	42,913.95	66,771.86	60,657.31	66,553.96	71,106.50	63,865.01	78,280.53
<b>Totals</b>	<b>\$ 116,507.72</b>	<b>\$ 178,008.99</b>	<b>\$ 240,672.90</b>	<b>\$ 229,186.74</b>	<b>\$ 258,151.12</b>	<b>\$ 259,297.73</b>	<b>\$ 271,537.26</b>	<b>\$ 301,551.38</b>	<b>\$ 301,927.40</b>	<b>\$ 288,776.21</b>

	<u>2001 (#3)</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
<b>Quarter Ended:</b>										
March 31	\$ 69,292.78	\$ 58,990.57	\$ 57,351.91	\$ 69,710.27	\$ 79,835.21	\$ 72,552.48	\$ 71,768.06	\$ 67,766.16	\$ 66,267.81	\$ 61,255.18
June 30	106,317.92	77,900.53	80,745.70	91,181.51	93,847.60	90,337.59	100,316.37	91,518.91	78,997.38	92,787.24
September 30	76,274.37	72,877.04	81,699.38	84,352.24	75,707.03	92,400.28	108,581.41	122,708.53	89,635.77	92,418.76
December 31	63,041.37	63,679.21	68,206.60	69,540.31	67,478.39	74,333.00	98,387.80	76,380.57	58,594.48	73,512.88
<b>Totals</b>	<b>\$ 314,926.44</b>	<b>\$ 273,447.35</b>	<b>\$ 288,003.59</b>	<b>\$ 314,784.33</b>	<b>\$ 316,868.23</b>	<b>\$ 329,623.35</b>	<b>\$ 379,053.64</b>	<b>\$ 358,374.17</b>	<b>\$ 293,495.44</b>	<b>\$ 319,974.06</b>

	<u>2011 (#4)</u>	<u>2012</u>	<u>2013</u>
<b>Quarter Ended:</b>			
March 31	\$ 97,259.96	\$ 65,312.80	\$ 76,008.31
June 30	100,472.96	88,516.82	100,435.65
September 30	78,823.22 *	89,285.49	96,330.15
December 31	115,118.50 *	69,971.65	116,521.58
<b>Totals</b>	<b>\$ 391,674.64</b>	<b>\$ 313,086.76</b>	<b>\$ 389,295.69</b>

Hampton Inn  
opened late in  
2010

\* One permit had not  
finished processing for  
the 9/30/11 quarter; funds were  
included in the next quarter

**Notes:**

1. Hotel/motel tax implemented 4-1-81 at a rate of 4%.
2. Hotel/motel tax increased to 7% effective 4-1-92
3. Hotel/motel tax for quarter ended June 30, 2001 included \$21,705.23 for prior quarters per State (late payments plus interest).
4. Hotel/motel tax for quarter ended March 31, 2011 includes \$5,345.83 for the prior quarter.

Prepared/Updated by: City Finance Dept. (NL)

Date: 3-18-14

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INTEROFFICE MEMORANDUM

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**TO:** Randall E. Hill, Public Works Director  
Nancy Lueck, Finance Director

**FROM:** Gale M. Fry, Vehicle Maintenance Supervisor

**RE:** Auction Held March 10 to March 19, 2014

**DATE:** March 24, 2014

Listed below are the results of the auction through Public Surplus that closed on March 19, 2014. Total of items sold was \$8,202.00. Public Surplus takes 1% of \$ 82.02. Our total was **\$8,119.98** for items that were sold.

Auction # - 1082135 – #238 – 2004 Ford/Goshen Transit Bus - \$1,725.00 (less 1%) \$17.25 = \$1,707.75 – 5211-40-5211-38340.

Auction # - 1082139 – #239 – 2004 Ford/Goshen Transit Bus - \$600.00 (less 1%) \$6.00 = \$ 594.00 – 5211-40-5211-38340.

Auction # - 1082159 – RC4 – 1995 CPS Transfer Trailer - \$3,600.00 (less 1%) \$36.00 = \$3,564.00 – 5658-45-5658-38340.

Auction # - 1082152 – #31 – 2005 Ford Crown Victoria - \$2,277.00 (less 1%) \$22.77 = \$2,254.23 – 7625-40-7625-38340.

There are two other transit buses that will be scrapped as part of the DERA Grant. This information is listed below:

5211-40-5211 - #244 – 2006 Ford/Eldorado Bus – VIN# - 1FDXE45P86HB33124 – miles – 160,981.

5211-40-5211 - #245 – 2006 Ford/Eldorado Bus – VIN# - 1FDXE45PX6HB33125 – miles – 149587.

We received quotes from three vendors on scrap prices.

Rich Metals (formerly Island Auto) - \$120/per ton

Muscatine Metals - \$180/per ton

Sells - \$185/per ton.

We will be going with Sell's. In order to get the amount, we divide the GVW by 2, divide that amount by 2000 and get tonnage of 3.5125 tons. Multiply that by \$185 and total for one bus is \$649.81. For both buses, it would be \$1,299.63.

If you have any questions, please contact me.

# MEMO

**TO:** Gregg Mandsager, City Administrator

**FROM:** Chief Brett Talkington

**RE:** K-9 Past and Present

**DATE:** 03-27-2014

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The department acquired Zarik in February 2012 at which time Zarik and Cpl. Grafton were sent to Springfield, Illinois to attend a ten week training academy sponsored by the Illinois State Police. Cpl. Grafton and Zarik spent the majority of the 2013 year assigned to 3<sup>rd</sup> shift (2100-0700 hours).

The Muscatine K-9 Unit trains regularly with other local agencies and was able to recertify through the Illinois State Police in the summer of 2013. The K-9 unit logged (33) calls for service in 2013. Twelve calls for service involved building searches and/or tracks while the rest were for drug searches. The K-9 unit has worked closely with the department's Street Crimes Unit as well as outside agencies such as the Muscatine County Drug Task Force and the Iowa State Patrol. The K-9 Unit has also assisted the Muscatine Community School District with student locker searches. The department is currently looking to increase its K-9 coverage and exploring funding avenues for adding another K-9 team. This team would then be assigned to 2<sup>nd</sup> shift (1500-0100 hours).

We had to put down Zarik in early March due to the Zarik having a fatal kidney disease. We recently purchased another K-9 from Vohne Liche Kennels in Denver, Indiana. The handler, Officer Brain Yates, and his new K-9 Nikko will be heading to Denver Indiana for (6) weeks of training on March 31<sup>st</sup>.

**KENT Corporation and Stakeholders Meeting  
for  
Muscatine Island Levee District and Muscatine-Louisa County Drainage District No. 13  
Protection System**

**27 March 2014**

- **Speaker:** Jon Fleischman  
U.S. Army Corps of Engineers (USACE), Rock Island District  
Lead Burlington Flood Area Engineer  
Phone: (309) 794-5322  
Email: [jon.p.fleischman@usace.army.mil](mailto:jon.p.fleischman@usace.army.mil)
  
- **Current Condition of Muscatine Island Levee District (MILD) Protection System:**
  - a) **History:** The original levee for the system was built in the early 1900's. Original levees were typically built with clay. The system was Federally improved with sand to a 100-year level of protection (LOP) in the 1960's, with 3 feet of freeboard and an increased amount of freeboard along the upstream portion of the system (see Attachments A1). The system was Federally improved to a 200-year LOP with sand in the 1990's (see Attachment A2).
  - b) **Current Condition:** A National Levee Database (NLD) survey was conducted in 2008 to collect top of levee crown elevations along the system (see Attachments B1 and B2). As shown on the attachments, the NLD survey elevations indicate that the current top of the levee generally meets or exceeds the 200-year design elevations.
  - c) **Vertical Elevation Datums:** The Federal improvement projects designs reference the Mean Sea Level (MSL) Datum of 1912. Other documents and surveys may reference the National Geodetic Vertical Datum (NGVD) of 1929 or the North American Vertical Datum (NAVD) of 1988. The difference between the MSL 1912 datum and the NAVD of 1988 for the Muscatine area is negative 0.72 feet. See Attachment C for vertical datum conversions.
  
- **Flood Risk of MILD Protection System:**
  - a) **System Performance:** Based on past performance and with no historic flood fighting having to be done for the system for past flood events, flood risk for the 200-year flood event should be considered low. Levee systems perform very well for floods up to the design elevation. Levee systems become the most vulnerable when flood heights are forecasted to go above the design elevation and flood fighting is necessary. Overtopping of a levee is considered one of the worst failure modes that can lead to a failure of the system. Other failure modes include under seepage, through seepage, and slope failure (see Attachment D).
  - b) **System Deficiencies:** Other conditions that may lead to a failure of a system are deficiencies. As part of the Public Law (PL) 84-99 program that gives the Federal Government authorization to repair damages to a system after a flood event, the USACE conducts annual inspections of systems every year to note deficiencies. Some deficiencies may be considered less of a risk to the system than others. The deficiencies which may put the system at an increased risk include:
    - 1) Utilities/Drainage Structures (Gatewells) through the Levee
    - 2) Non-Operating Closure Structures (Gates)
    - 3) Non-Functional Relief Wells
    - 4) Rodent Holes
    - 5) Encroachments
    - 6) Levee Erosion

The MILD system currently has increased risk deficiencies including drainage structures, relief wells, encroachments, and erosion.

- **Flood Preparedness:**
  - a) **Operation and Maintenance (O&M) Manual:** When a flood event is forecast, the O&M manual should be used to prepare for the event. The O&M manual provides information on system responsibilities, operation such as the closing of gatewells and gates, flood fighting, patrolling the levee, and equipment and supply sources. Attachment E1 is part of the report used for the annual inspections. Attachment E2 provides some information on flood fighting.
  - b) **Equipment and Supplies:** Having equipment and supplies or knowing where to get equipment and supplies should be considered a top priority when a flood event is forecast. The system should have or be able to get adequate equipment and supplies for the initial days of a flood fight. The USACE can assist with the supply of sandbags, polyethylene, and pumps. The procedure for obtaining items from the USACE begins by contacting the State Emergency Management Office which then contacts the USACE for the required items. Emergency points of contact are provided in Attachment F.
  - c) **Flood Response Plan:** Along with the O&M manual, the system should maintain a written flood response plan which includes how to operate, maintain, and staff the system during a flood event. The plan should also contain emergency escape routes and emergency points of contact, including the police department and sheriff's office.
  - d) **Breach Analysis:** The USACE conducted a breach analysis for the MILD system. The analysis provided critical infrastructure locations and times of inundation (see Attachment G).
  - e) **Warning System:** Although not required, levee systems may consider the installation of a warning system to alert local residence and businesses of an emergency situation.
  - f) **Flood Forecast Websites:** Websites are available to get flood forecasts. The National Weather Service (NWS) and USACE sites for getting forecasts are [www.water.weather.gov/ahps](http://www.water.weather.gov/ahps) and [www.rivergages.com](http://www.rivergages.com). The NWS is the official entity for providing forecasts (see Attachment H).
  
- **Long Term Plans:**
  - a) **Correcting Deficiencies:** The USACE recommends developing a plan/checklist to correct deficiencies. Some deficiencies may take longer than others to correct. Having a plan/checklist can assist in making sure the deficiencies get corrected. Although not noted as a deficiency, low spots along the top of the levee below the design grade should be corrected to the design grade.
  - b) **Flood Response Plan:** The development of a flood response plan that includes the necessary actions of all stakeholders and information as previously discussed.
  - c) **Possible Placement of Sand on Landside of Levee:** Flood fighting may include the push-up of the landside slope material to provide additional height during a flood event. The USACE strongly recommends that the push-up of material should not be done if it takes material away from the design section of the levee. Reducing the design section can create seepage and stability issues that could lead to levee failure. The placement of sand on the landside of the levee is an alternative for providing additional protection using material that can be pushed-up to provide additional height without compromising the design section. The USACE would require a modification request for the placement of sand.
  - d) **Possibly Raising the Levee Height:** Raising the height of a levee system is an alternative for providing additional protection. Approval for raising the height of a levee system is provided by the Iowa DNR. The USACE does not have authority to approve the raising of a levee system. Raising the height of a levee system may require additional real estate, the relocation of utilities, and other features. The USACE would require a modification request for a levee raise.

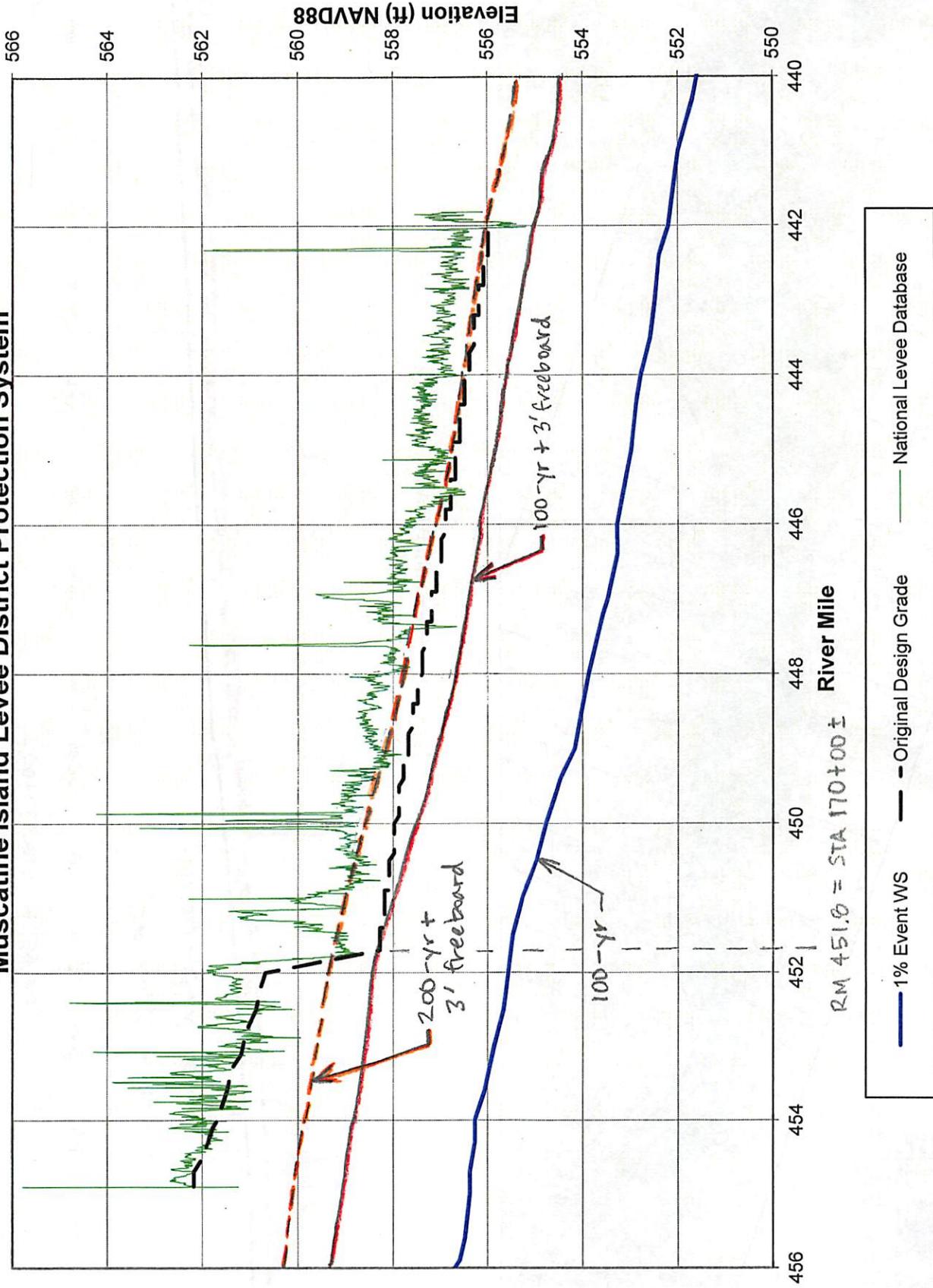
16. Design grade - Mississippi River levee.- The main-stem levee will be improved to withstand a Mississippi River flow of 100-year frequency, as determined in the project document. Nominal freeboard will be 3 feet, in accordance with the policy adopted for Upper Mississippi River levees protecting urban areas. The freeboard will be increased, however, in the upstream portion of the project, in accordance with Civil Works Engineer Bulletin 54-14.

**MUSCATINE ISLAND LEVEE DISTRICT, CITY OF MUSCATINE, IOWA  
LOCAL FLOOD PROTECTION DESIGN MEMORANDUM**

**1. Description of Project.** Muscatine Island Levee District, the City of Muscatine, Iowa and Muscatine-Louisa County Drainage District No. 13 form a joint drainage and flood protection area of 30,800 acres that is protected by 15.6 miles of existing sand and clay levee. The existing levee will be raised to increase the degree of protection from a 67-year flood to a 200-year flood. The area lies on the right bank of the Mississippi River in Muscatine and Louisa Counties. It is adjacent to the City of Muscatine, Iowa. The project consist of improving approximately three miles of existing sand levee with new rock shell construction, improving approximately three miles of existing sand levee in kind, constructing a new sign panel type railroad closure, improving drainage facilities, constructing ramps, constructing approximately 600 feet of T-wall, and relocating existing utilities.

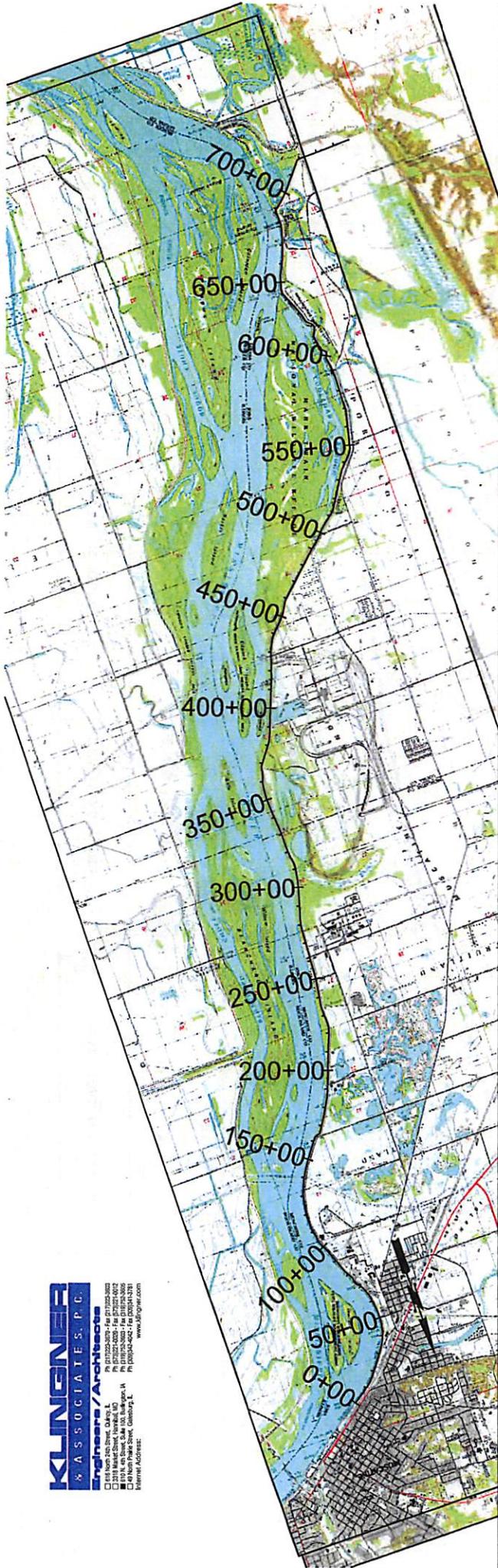
**2. History.** The original mainstream levee for the Muscatine Island Levee District was constructed and operated solely by the locals. This levee system was originally built in the 1900's and continuously approved until the first Federal project in 1935. This Federal project involved diverting the Michael Creek Channel directly out to the Mississippi River. In August of 1957, the Rock Island District submitted a Design Memorandum No. 1, General Design Memorandum for Local Flood Protection, Muscatine Island Levee District and Muscatine, Louisa Drainage District No. 13, Iowa. This memorandum proposed improvements of the existing levee system to a 100-year level of protection and a new flank levee on Michael Creek. This project was constructed in the mid-1960's. In August 1975, Rock Island District submitted the Interim Feasibility Report No. 1, for Flood Control, Mississippi River, Coon Rapids to Ohio River, Muscatine Island Levee District, and Muscatine Louisa Drainage No. 13. This report proposed raising the existing 100-year level of protection to 500-year level of protection. This report was never approved. In July 1986, the Interim Feasibility Report No. 1 for Flood Damage Reduction, Mississippi River, Coon Rapids Dam to Ohio River, Muscatine Island, Levee District, city of Muscatine, Iowa and Muscatine-Louisa County Drainage District No. 13, Iowa with final environmental impact statement was submitted by the Rock Island District. This report proposed a levee improvement from a 100-year level to a 200-year level protection. This project was authorized by the 1986 Water Resource Development Act, Public Law 99-662. In accordance with section 401 of the Water Resource Development Act of 1986, the Office of the Chief of Engineers submitted a report to Congress addressing concerns in the drainage system and the issue of upland versus aquatic borrow. This report was submitted to Congress on 17 November 1987.

# Muscatine Island Levee District Protection System

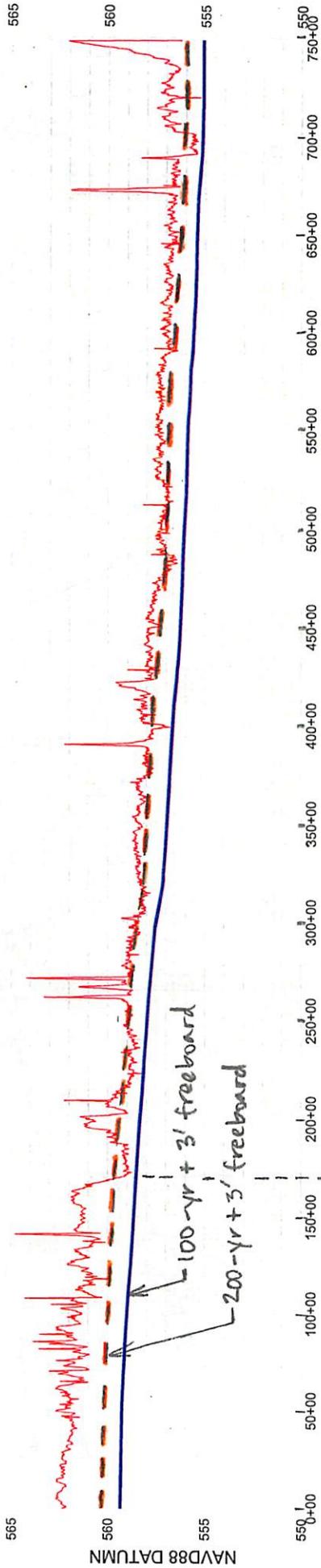


**KLINGENBERG & ASSOCIATES, P.C.**  
 Engineers / Architects

415 North 2nd Street, Olathe, KS  
 Ph: (913) 252-2070 Fax: (913) 252-2000  
 2010 Walnut Street, Newark, OH  
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 40 North Park Street, Cambridge, MA  
 Ph: (617) 352-4422 Fax: (617) 352-4279  
 Internet Address: www.klingenberg.com



— N1DB LEVEE  
— 100+3



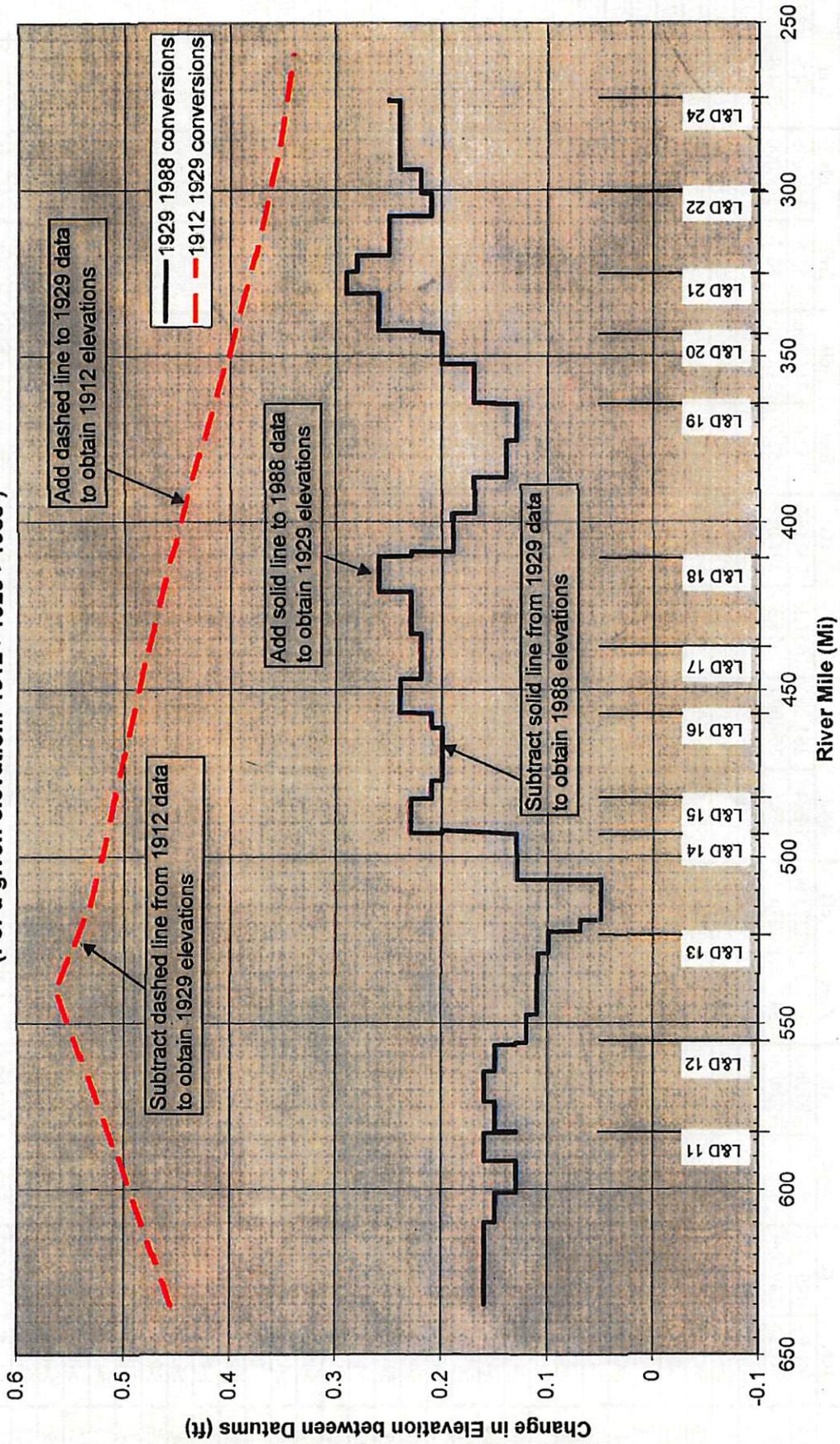
RM 451.8 = STA. 170+00 ±

JULY 22, 2011

ATTACHMENT B2

### Vertical Datum Conversions in Rock Island District \*

(\*Applies to locations on the Mississippi River. For other locations please contact Survey Branch EC-S)  
 (For a given elevation: 1912 > 1929 > 1988 )

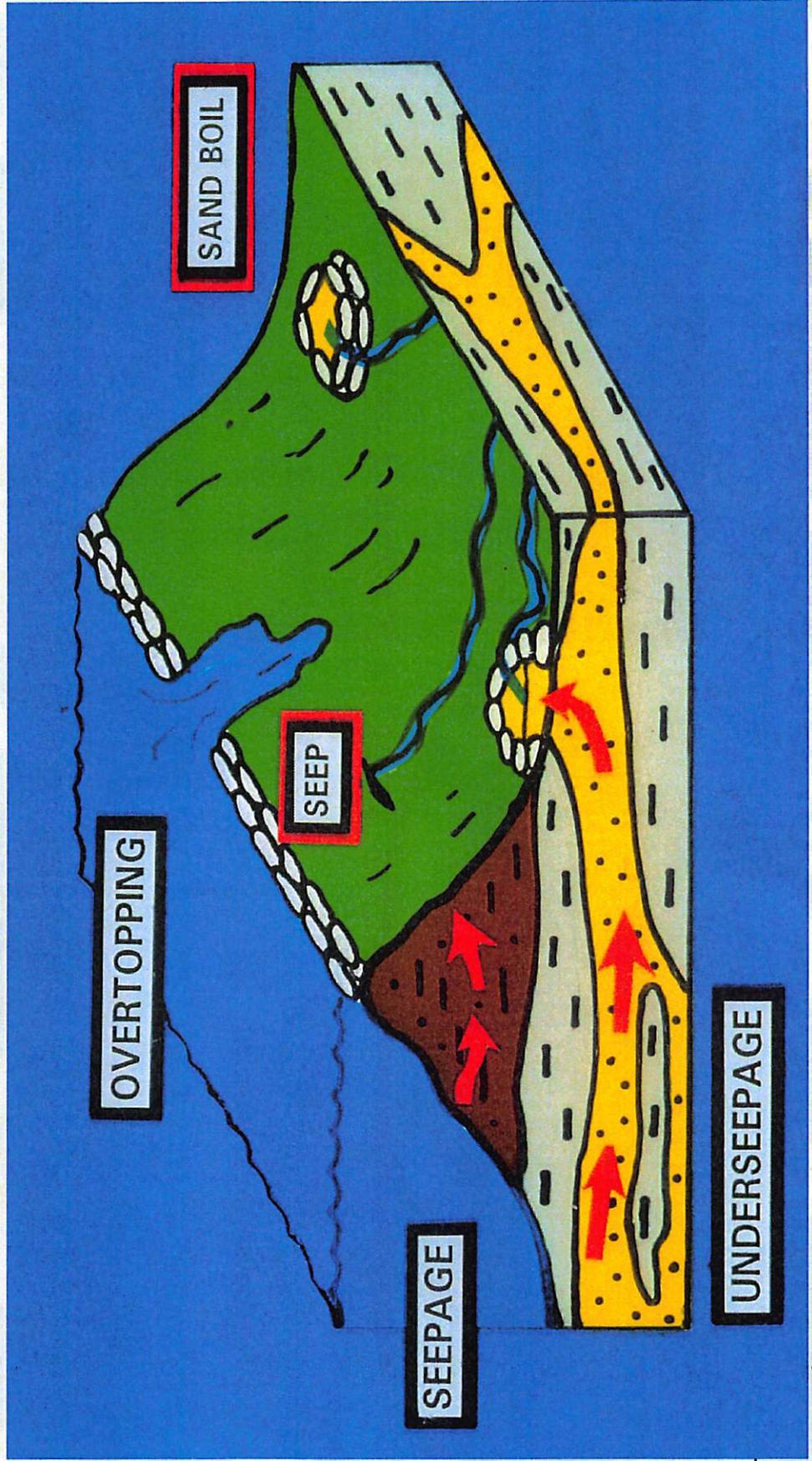


**Table C-M-6**  
**2003 Mississippi River Stage and Flow Frequency Profiles (All elevations referenced to MSL 1912)**

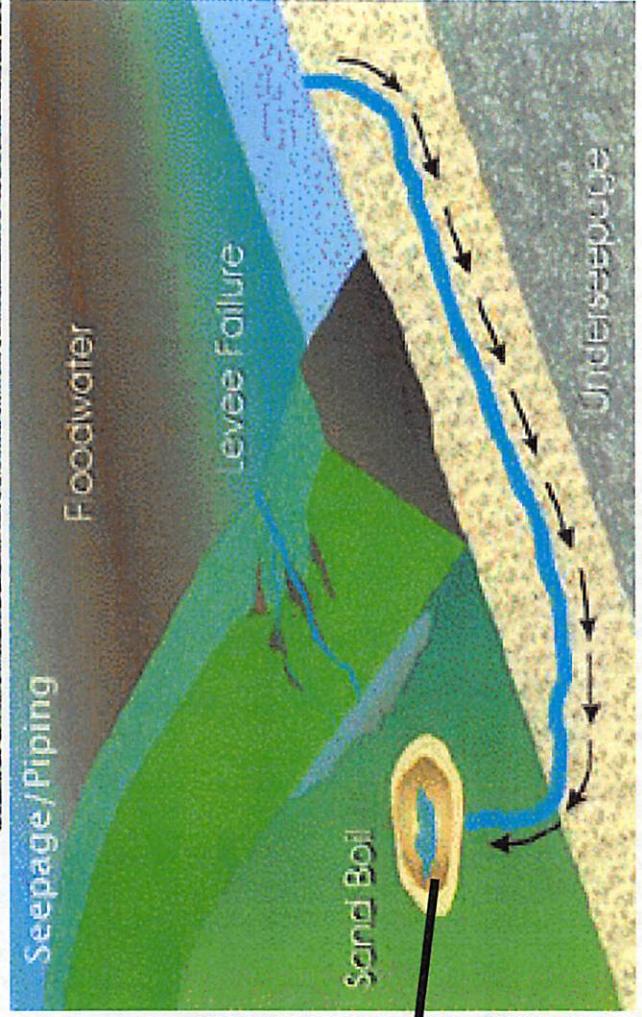
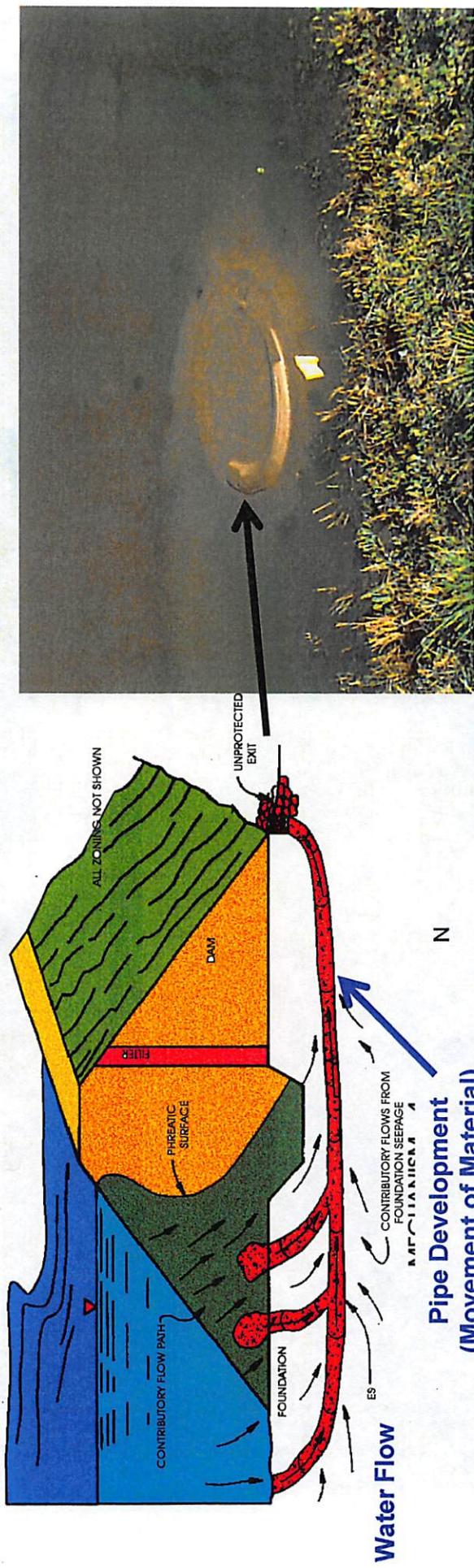
River Mile	Exceedance Probability															
	0.5		0.2		0.1		0.04		0.02		0.01		0.005		0.002	
	feet	cfs	feet	cfs	feet	cfs	feet	cfs	feet	cfs	feet	cfs	feet	cfs	feet	cfs
440.3	541.9	149,000	545.7	197,000	547.0	227,000	549.4	264,000	551.1	291,000	552.4	315,000	553.5	338,000	554.6	371,000
441	542.1	149,000	546.0	197,000	547.2	227,000	549.6	264,000	551.3	291,000	552.7	315,000	553.7	339,000	554.8	371,000
441.5	542.3	149,000	546.1	197,000	547.3	227,000	549.8	264,000	551.5	291,000	552.8	315,000	553.9	339,000	555.0	371,000
442	542.4	149,000	546.2	197,000	547.5	227,000	549.9	264,000	551.6	291,000	552.9	315,000	554.0	339,000	555.1	371,000
442.4	542.6	149,000	546.3	197,000	547.6	227,000	550.0	264,000	551.7	291,000	553.1	315,000	554.2	339,000	555.2	371,000
443	542.7	149,000	546.5	197,000	547.8	227,000	550.1	264,000	551.8	291,000	553.2	315,000	554.3	339,000	555.3	371,000
443.5	542.8	149,000	546.6	197,000	547.9	227,000	550.3	264,000	551.9	291,000	553.3	315,000	554.4	339,000	555.5	372,000
444	543.0	149,000	546.8	197,000	548.1	227,000	550.4	264,000	552.1	291,000	553.5	315,000	554.6	339,000	555.6	372,000
444.4	543.1	149,000	546.8	197,000	548.2	227,000	550.5	264,000	552.2	291,000	553.6	315,000	554.7	339,000	555.7	372,000
445	543.3	149,000	547.0	197,000	548.4	227,000	550.7	264,000	552.4	291,000	553.7	315,000	554.9	339,000	555.9	372,000
445.3	543.4	149,000	547.1	197,000	548.4	227,000	550.8	264,000	552.4	291,000	553.8	315,000	554.9	339,000	556.0	372,000
446	543.5	149,000	547.2	197,000	548.6	227,000	550.9	264,000	552.6	291,000	554.0	315,000	555.1	340,000	556.1	372,000
446.4	543.6	149,000	547.3	197,000	548.6	227,000	551.0	264,000	552.6	291,000	554.0	315,000	555.1	339,000	556.2	372,000
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448	544.0	149,000	547.7	197,000	549.2	227,000	551.5	264,000	553.2	291,000	554.6	315,000	555.7	340,000	556.8	372,000
449	544.3	149,000	548.0	197,000	549.5	227,000	551.8	264,000	553.5	291,000	554.9	315,000	556.1	340,000	557.1	372,000
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451	545.1	149,000	548.8	197,000	550.4	227,000	552.7	264,000	554.4	291,000	556.0	319,000	557.1	346,000	558.0	380,000
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454.3	545.9	149,000	549.6	197,000	551.2	227,000	553.6	264,000	555.4	291,000	557.0	319,000	558.2	346,000	559.1	379,000
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# Common Failure Modes

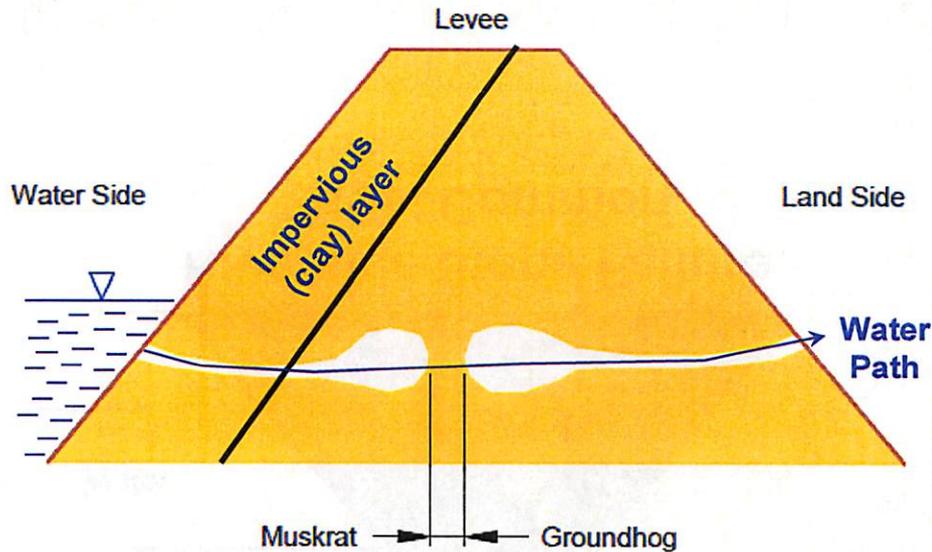
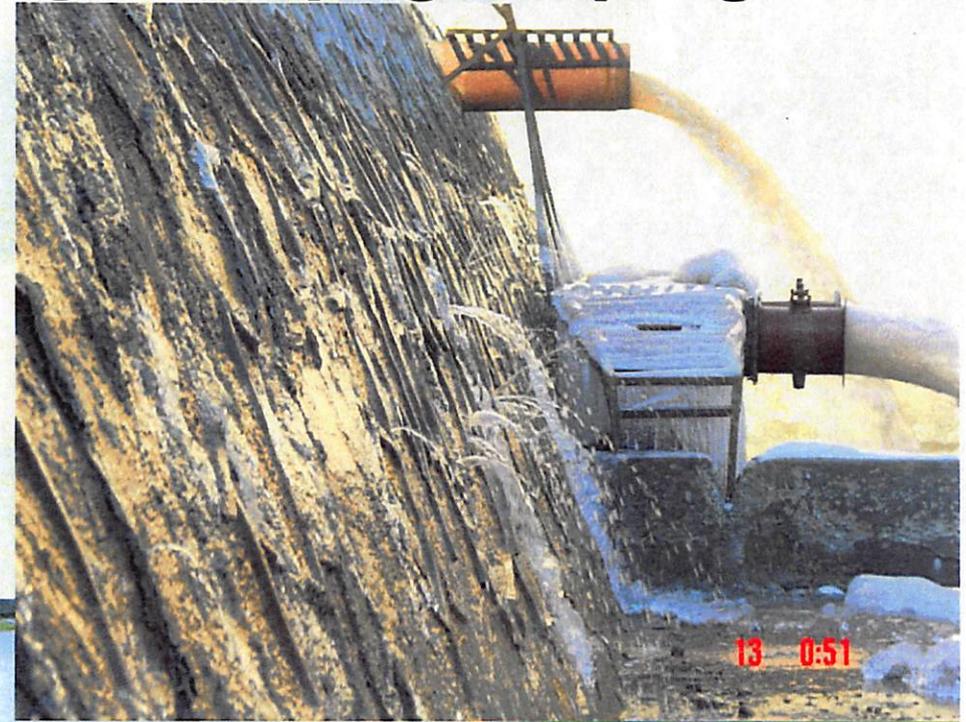
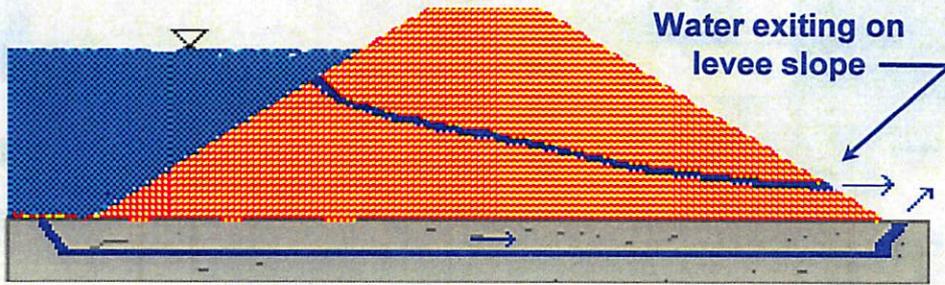
- Underseepage/Piping
- Through Seepage/Piping
- Slope Failure



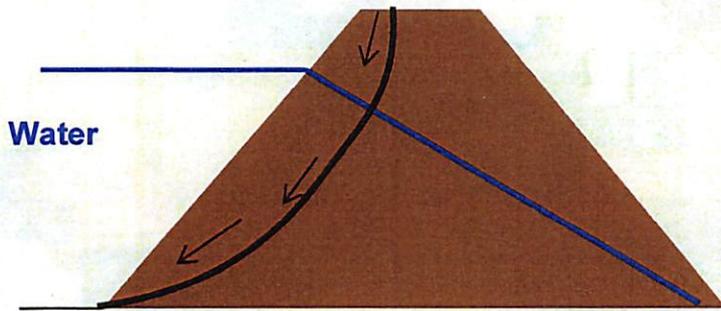
# Failure Mode – Underseepage/Piping



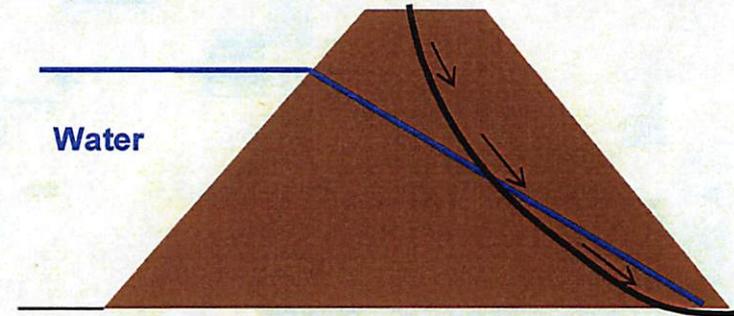
# Failure Mode – Through Seepage/Piping



# Failure Mode – Slope Failure



**Riverside Slope Failure**  
**\*Most Common**

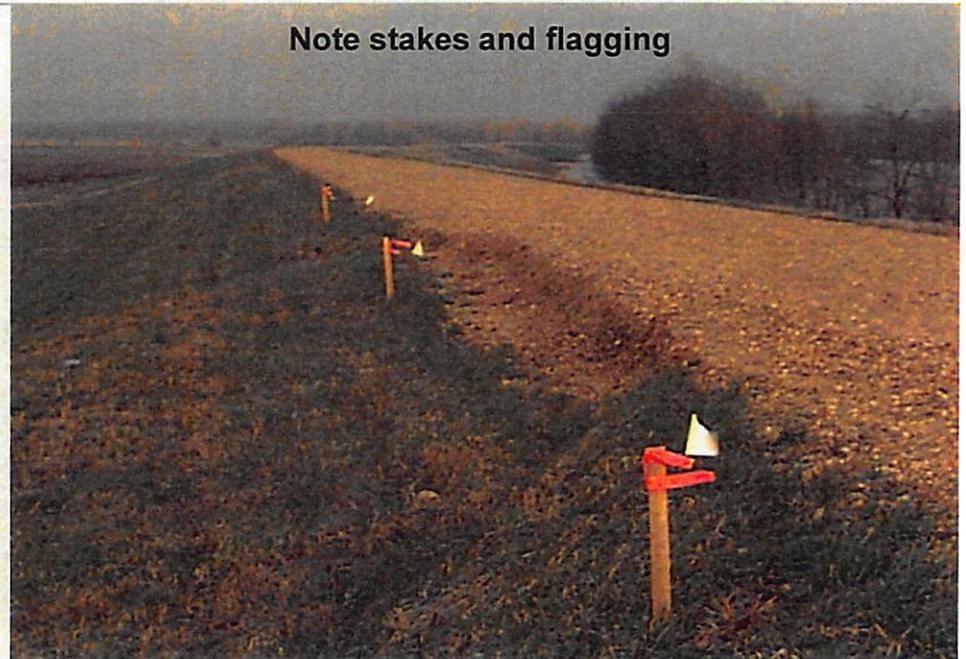


**Landside Slope Failure**



CAVING BANKS

CARRIED AWAY BY CAVING BANKS



Note stakes and flagging

## General Items for All Flood Damage Reduction Segments / Systems

For use during all inspections of all Flood Damage Reduction Segments / Systems

Rated Item	Rating	Rating Guidelines		Location/Remarks/Recommendations
1. Operations and Maintenance Manuals		A	Levee Owner's Manual, O&M Manuals, and/or manufacturer's operating instructions are present.	
		M	Sponsor manuals are lost or missing or out of date; however, sponsor will obtain manuals prior to next scheduled inspection.	
		U	Sponsor has not obtained lost or missing manuals identified during previous inspection.	
2. Emergency Supplies and Equipment (A or M only)		A	The sponsor maintains a stockpile of sandbags, shovels, and other flood fight supplies which will adequately supply all needs for the initial days of a flood fight. Sponsor determines required quantity of supplies after consulting with inspector.	
		M	The sponsor does not maintain an adequate supply of flood fighting materials as part of their preparedness activities.	
3. Flood Preparedness and Training (A or M only)		A	Sponsor has a written system-specific flood response plan and a solid understanding of how to operate, maintain, and staff the FDR system during a flood. Sponsor maintains a list of emergency contact information for appropriate personnel and other emergency response agencies.	
		M	The sponsor maintains a good working knowledge of flood response activities, but documentation of system-specific emergency procedures and emergency contact personnel is insufficient or out of date.	



# Flood Fighting

## What is the need and what are the options?

### Need

- Sand Boils/Seepage
- Closure Structures
- Levee Raise
- New levee segments

### Options

- Sand bags
- Earthen levees
- Innovative flood fight products
  - Hesco Bastions
  - RDFW
  - Portadam

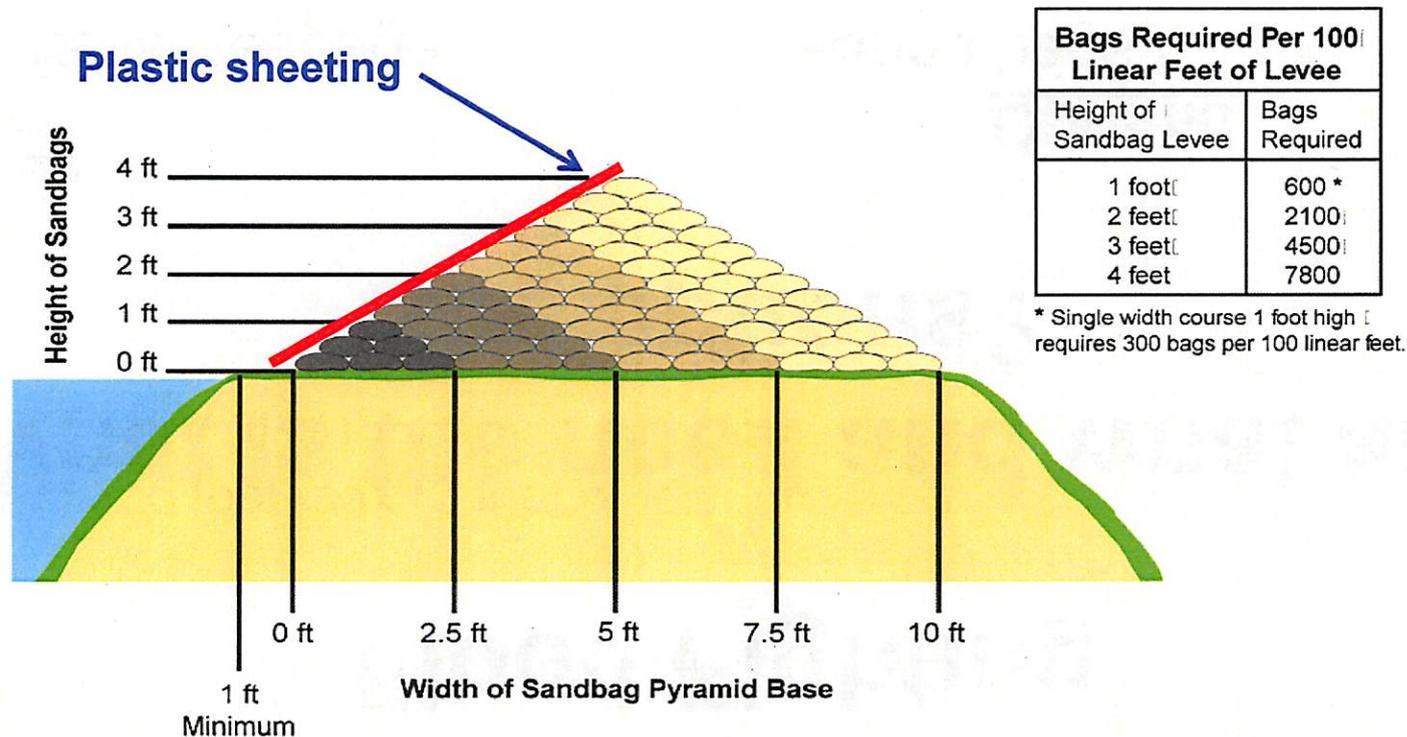
How much lead time and available resources?



**BUILDING STRONG®**

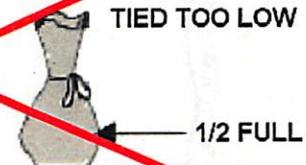
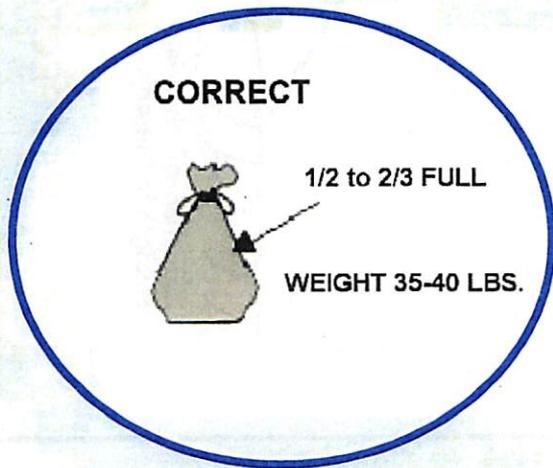
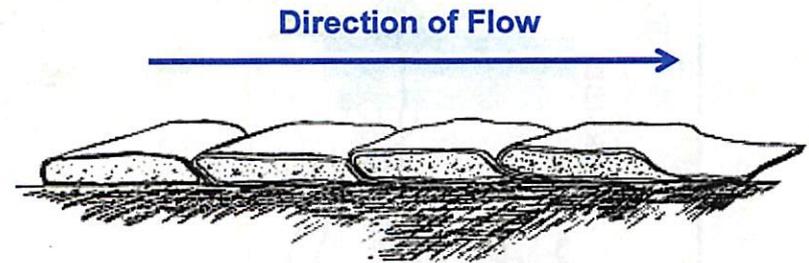
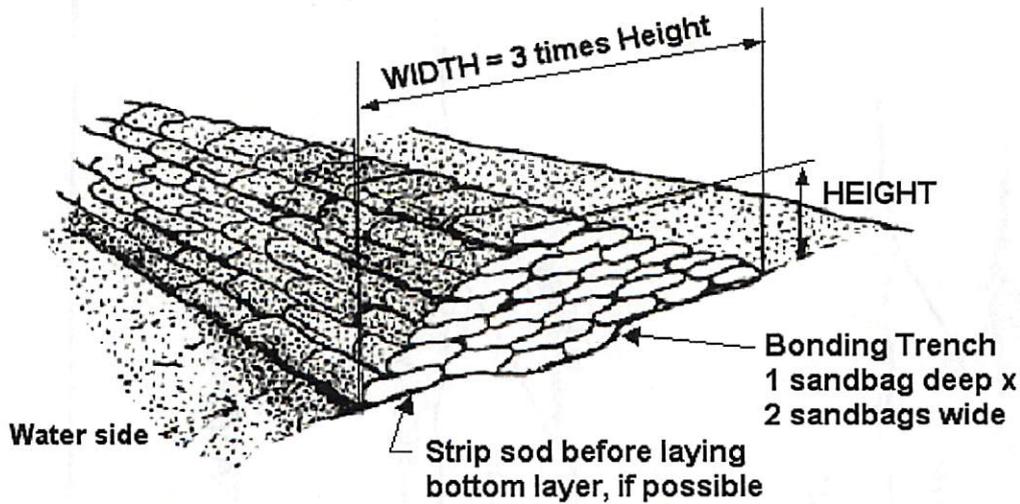
# Sandbag Flood Structure

- USACE Recommendations
  - ▶ 1V:3H (1 foot high for 3 foot width)
  - ▶ 5 foot max (3 foot or less preferred)
- Typical used for low/short barrier, transitions, constricted areas, closures & around sand boils



**3 STRONG®**

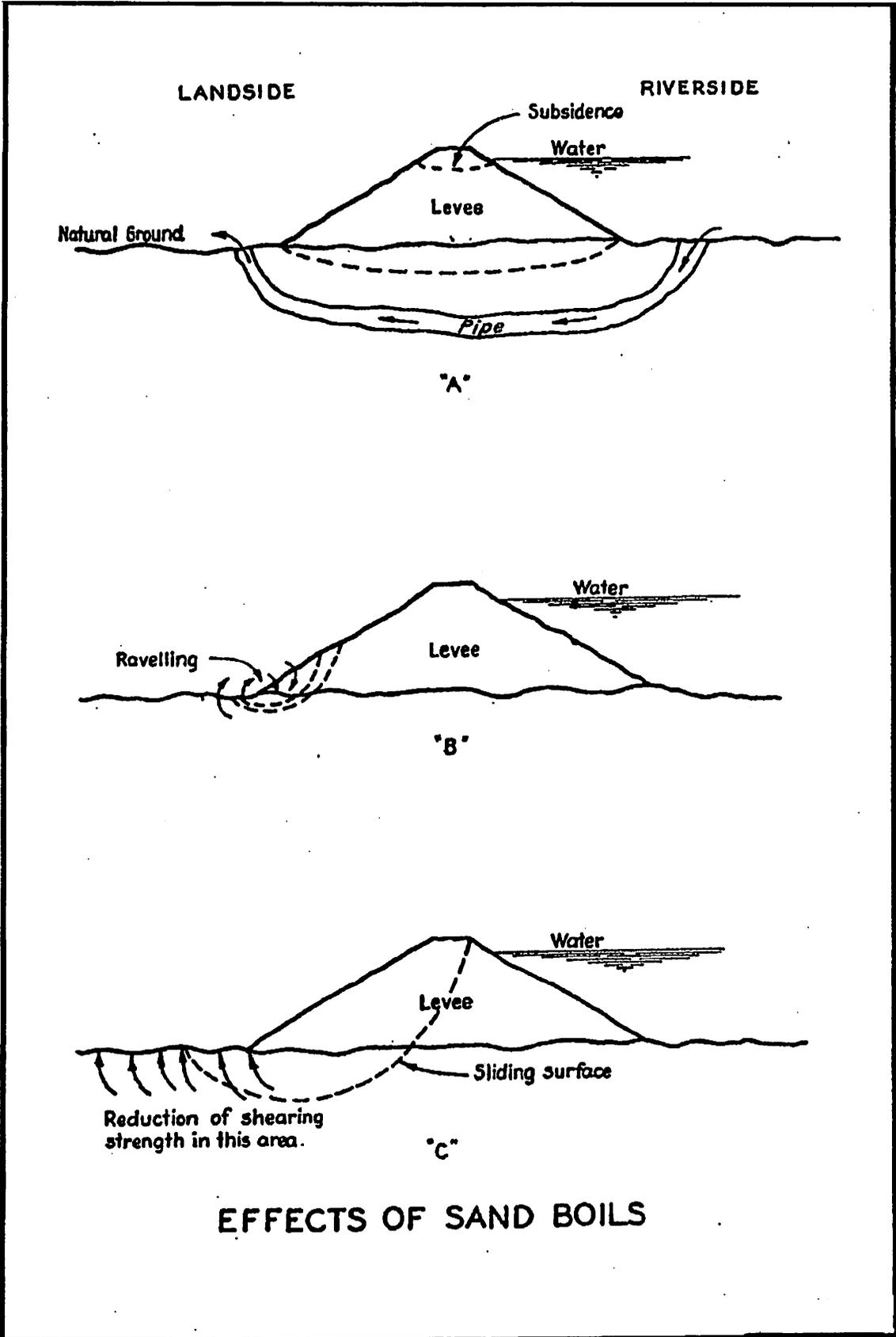
# Sandbag Flood Structure



**BOTH INCORRECT**



**BUILDING STRONG®**



EFFECTS OF SAND BOILS

# How To Construct A Sandbag Emergency Levee

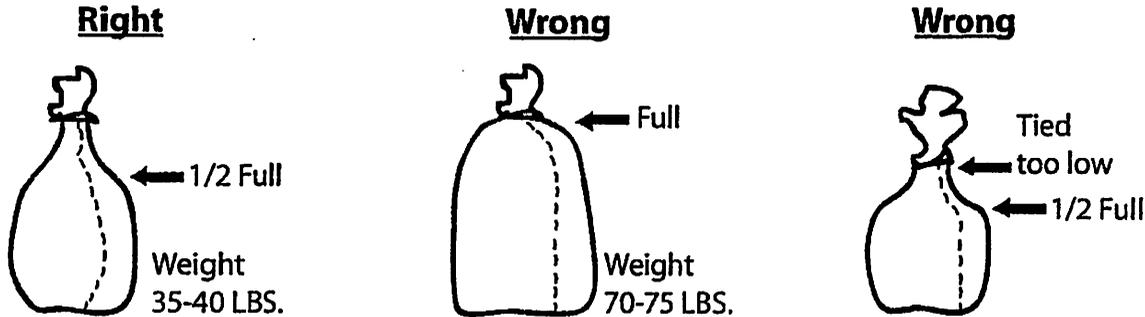
<http://www.invr.usace.army.mil/Emergency/igt/EM-HomePage.htm>



US Army Corps  
of Engineers®

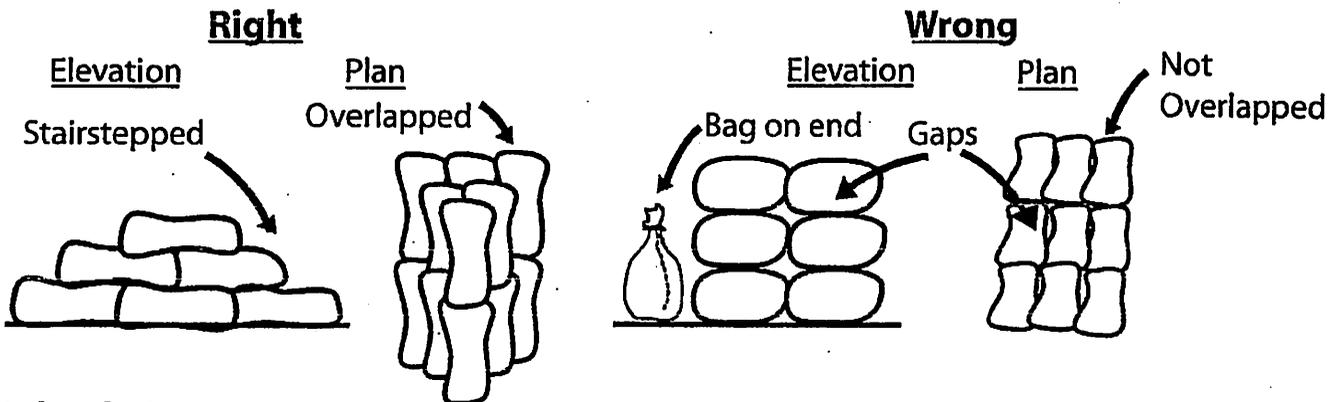
## How To Fill Sandbags:

Fill sandbags 1/2 to 2/3 full, tie at top so bag will lay flat when put in place.  
(Overfilled bags leave gaps in levee allowing water to seep through.)



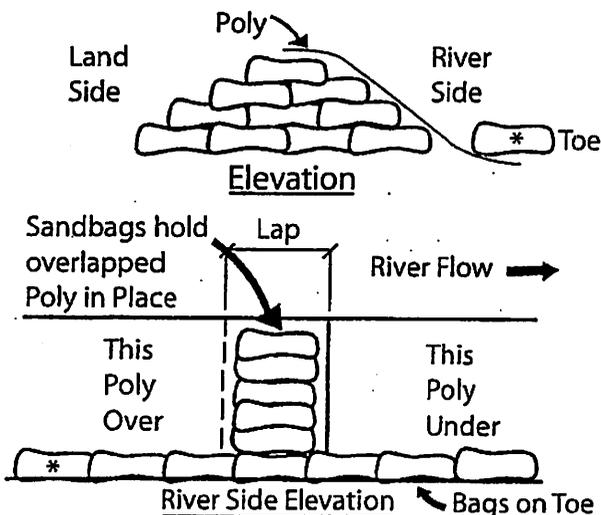
## Placing Sandbags:

Sandbags should be placed flat on ground, overlapped, tamped into place, and stairstepped.



## Polyethylene:

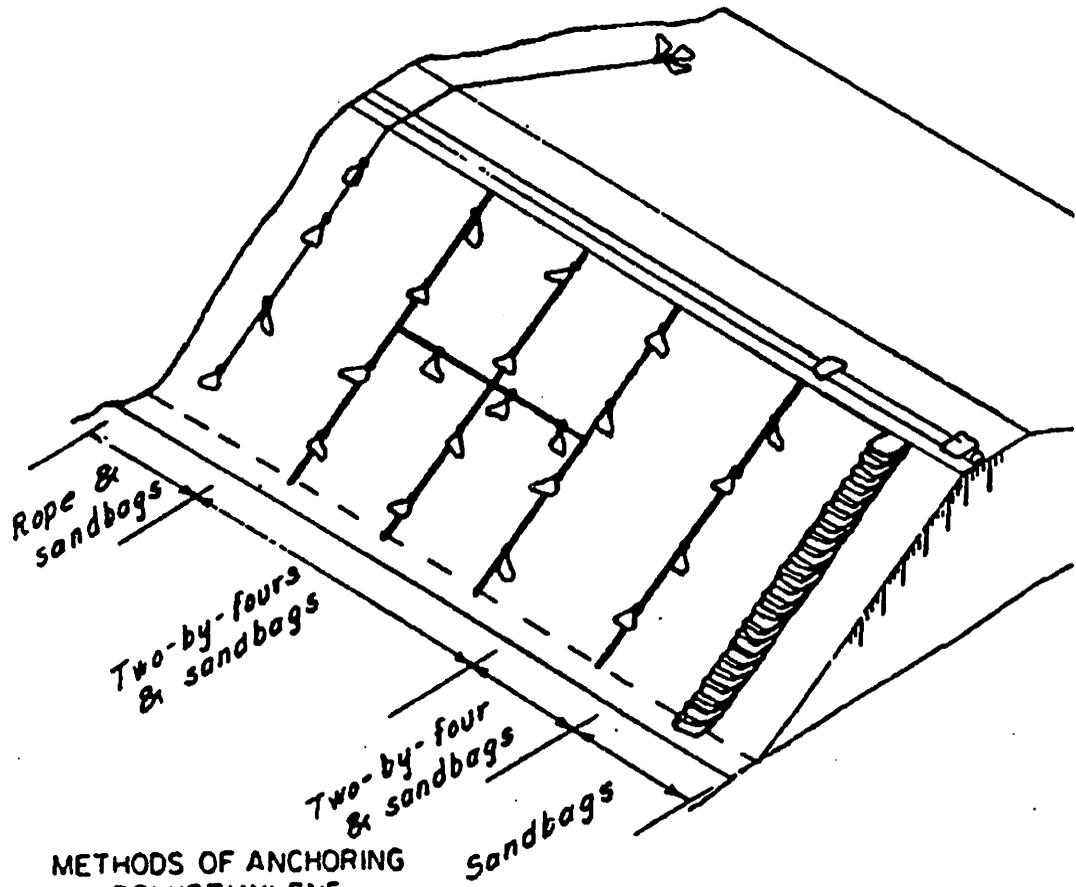
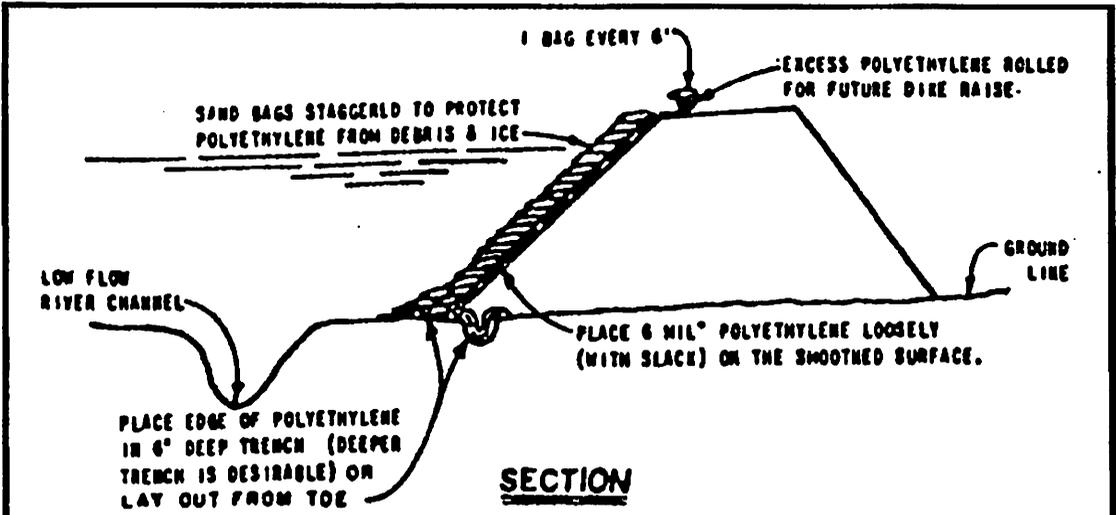
Polyethylene (poly) comes in rolls 20 ft. wide and 100 ft. long. It's used to wrap sandbag levees to prevent seepage. Poly should be placed on downstream portion of levee first, then worked upstream with a two to three foot overlap. Poly is held in place with sandbags.



Estimated number of sandbags per linear foot of wall.

Height in Feet	No. of Bags	Tons of Sand
1	5	0.10
2	10	0.20
3	21	0.50
4	36	0.75
5	55	1.10

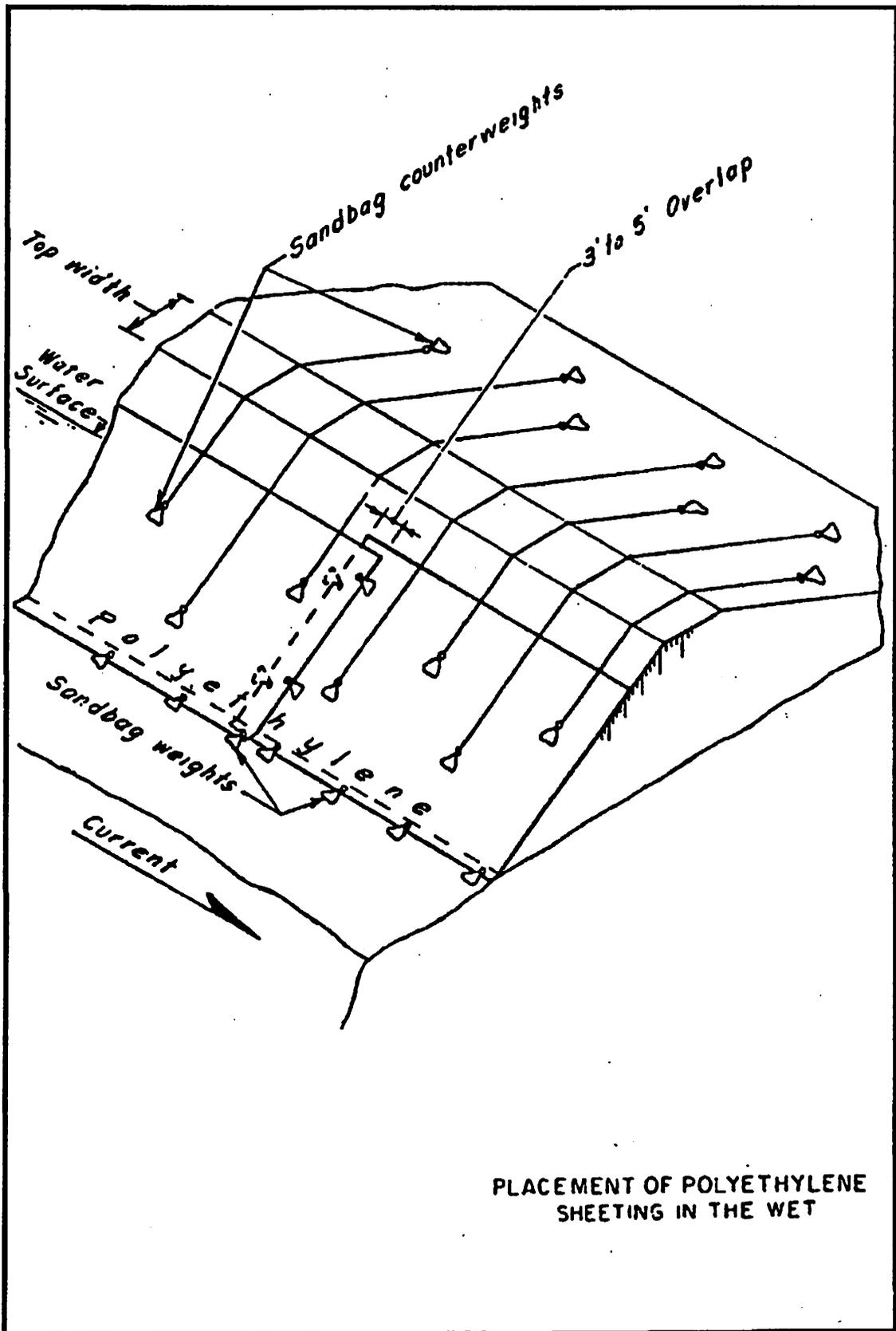
Five feet is the practical limit of a sandbag levee. If a higher levee is needed, alternate means of construction should be considered. Note: Preferred levee limit is 3 feet high.



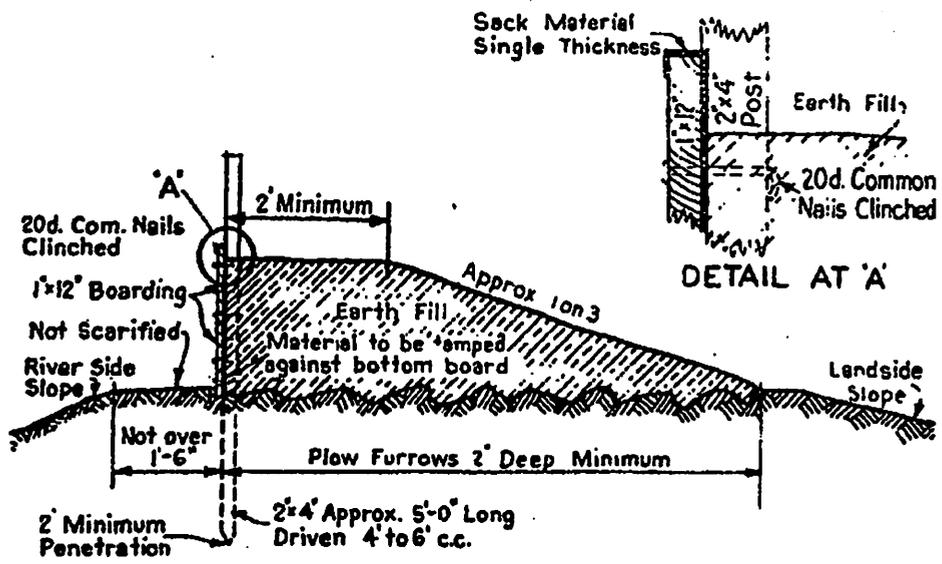
**METHODS OF ANCHORING POLYETHYLENE**

\*6 MIL BLACK POLYETHYLENE IS THE MOST DESIRABLE, 6 MIL CLEAR SECOND, 4 MIL BLACK THIRD, 4 MIL CLEAR FOURTH & 2 MIL POLYETHYLENE SHOULD ONLY BE USED AS A LAST RESORT.

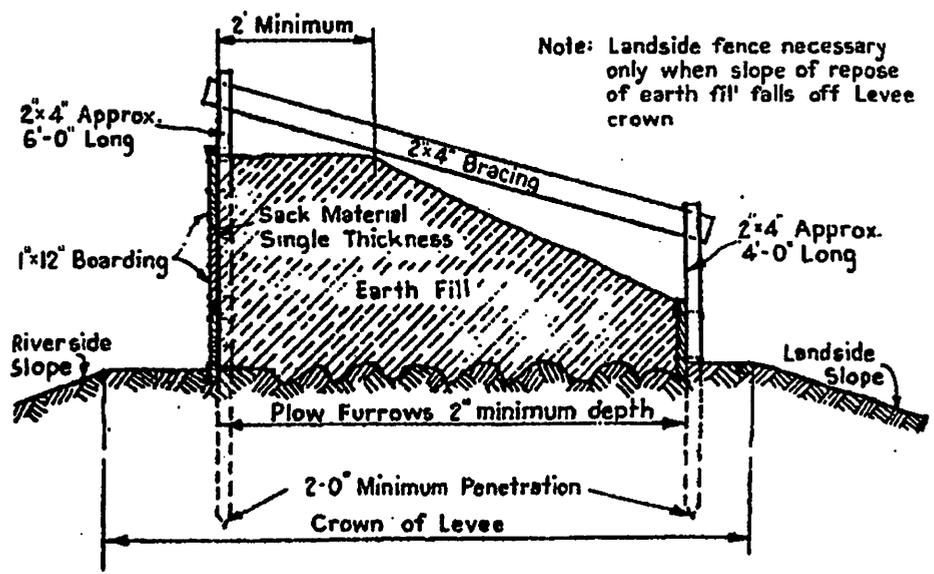
**PLACEMENT OF POLYETHYLENE SHEETING ON TEMPORARY LEVEES**



PLACEMENT OF POLYETHYLENE SHEETING IN THE WET



## TWO BOARD LEVEL CAPPING

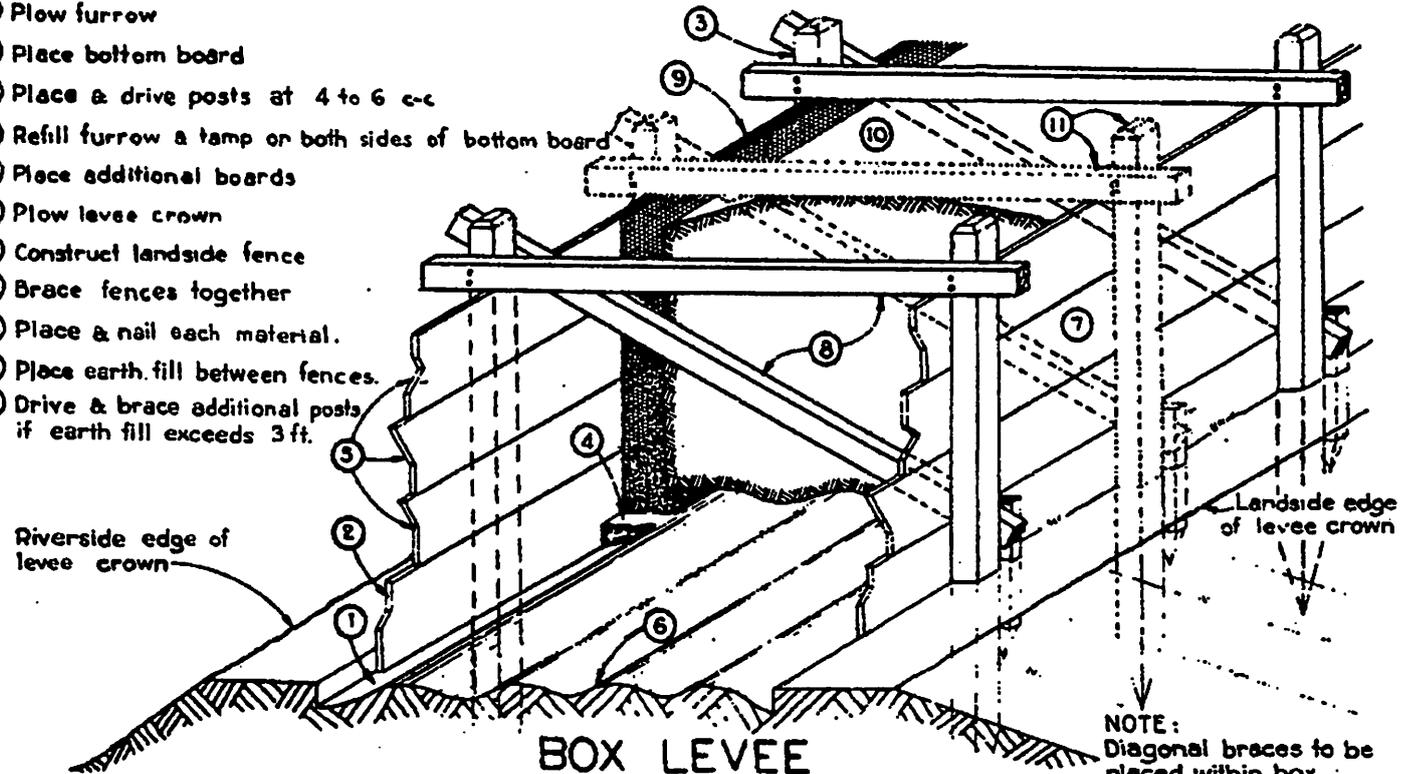


## THREE BOARD LEVEL CAPPING



### SEQUENCE OF OPERATIONS

- ① Plow furrow
- ② Place bottom board
- ③ Place & drive posts at 4 to 6 c-c
- ④ Refill furrow & tamp on both sides of bottom board
- ⑤ Place additional boards
- ⑥ Plow levee crown
- ⑦ Construct landside fence
- ⑧ Brace fences together
- ⑨ Place & nail each material.
- ⑩ Place earth fill between fences.
- ⑪ Drive & brace additional posts if earth fill exceeds 3 ft.



### BOX LEVEE METHOD OF CONSTRUCTION

Scale 0 1 2 3 4 ft.

NOTE:  
Diagonal braces to be placed within box with narrow base width only when outside bracing is impracticable.

## Burlington Flood Area

**Rodney Delp, Chief EM**  
Office: (309) 794-5230  
Home: (309) 796-1280  
Cellular: (309) 531-4341

**Sarah Jones, Assistant EM**  
Office: (309) 794-5206  
Home: (309) 944-3835

**EOC Call In Number**  
1-866-541-6990, code 3278882  
**EOC Email:** cemvr-eoc@usace.army.mil  
**EM Facsimile:** (309) 794-5405  
**District Toll Free Number**  
1-800-792-5069 then 9 and desired extension

**Jim Stiman, Chief Water Control**  
Office: (309) 794-5849

**Water Control Room**  
Office: (309) 794-5258  
Cell: (309) 738-4101

### County Emergency POC

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Jeff Carter, EM Coordinator  
312 E. 5th Street  
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[muscatincoema@machlink.com](mailto:muscatincoema@machlink.com)

#### **Louisa County EMA**

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319-527-2131, fax  
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512 N. Main Street, Suite #1  
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319-753-8731, fax  
Email: [harding@co.des-moines.ia.us](mailto:harding@co.des-moines.ia.us)  
Website: [www.co.des-moines.ia.us/EMA/EMAHome.asp](http://www.co.des-moines.ia.us/EMA/EMAHome.asp)

#### **Lee County Emergency Management**

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319-372-4124, office  
319-470-0291, cell  
319-372-7758, fax  
Email: [coordinator@leecountyema.com](mailto:coordinator@leecountyema.com)  
Website: [www.leecountyema.com](http://www.leecountyema.com)

#### **Rock Island County Emergency Service**

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309-738-0412, cell  
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#### **Mercer County ESDA**

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309-371-8326, cell  
[jhamerlinck65@hotmail.com](mailto:jhamerlinck65@hotmail.com)

#### **Henderson County Zoning and Emergency Management**

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309-867-2780, office  
309-221-8670, cell  
[cszoning@mchsi.com](mailto:cszoning@mchsi.com)

### County Emergency POC cont.

#### **Hancock County ESDA**

Jack Curfman  
1006 Wabash Avenue  
Carthage, IL 62321  
217-357-0104, office  
309-221-0240, cell  
[lepc@mchsi.com](mailto:lepc@mchsi.com)

### State Emergency POC

#### **Iowa Homeland Security and Emergency Management**

J. Derek Hill  
7105 NW 70<sup>th</sup> Street  
Camp Dodge, Bldg. W-4  
Johnston, IA 50131  
515-725-3231  
Email: [derek.hill@iowa.com](mailto:derek.hill@iowa.com)  
Website: [www.iowahomelandsecurity.org](http://www.iowahomelandsecurity.org)

#### **State of Illinois Emergency Management, Region 2**

Sue Coers, Region Coordinator  
1325 North Galena Avenue  
Dixon, IL 61021  
815-288-1455

#### **State of Illinois Emergency Management, Region 6**

Russ Steil, Region Coordinator  
2200 South Dirksen Parkway  
Springfield, IL 62703  
217-782-0922

# Fact Sheet

## Muscatine Island Urban Levee System Study Breach Analysis

### Study Background

In December 2008 the City of Muscatine requested Rock Island District Corps of Engineers (USACE) assistance in planning for flooding of the Mississippi River if the levee was breached south of the city limits. The City of Muscatine has many businesses and industries in this area of the community and any breach would result in the flood waters backing into the city from the south. When federal funding became available in 2012, collaboration between Muscatine Island stakeholders and USACE began in order to address managing residual risk associated with the levee protecting the area. The study was not initiated because of any known imminent risk of failure to the levee protecting Muscatine Island but instead as an effort to improve emergency planning and communication of the potential risks associated with the levee. While the City of Muscatine is protected by a FEMA accredited flood protection project, breach scenarios afford the opportunity to explore failure scenarios to inform emergency management planning, including evaluation of evacuation routes and information for evacuation planning and will serve as a readiness measure to reduce future life and safety risks involved with flood events.

The issues addressed are focused on residual risk and public safety that are significant during the occurrence of flood events exceeding the capacity of the levee system, which includes floods that may result in overtopping or floods that may result in system failure prior to overtopping. The elements to be addressed are: probability of capacity exceedance; consequence of capacity exceedance; and emergency plans to ensure public safety in the event of a flood that exceeds the levee system capacity. Studies have indicated that as little as 1 hour of notice can result in a ten-percent reduction in flood damages and lives saved (National Committee on Levee Safety). Saving property with less than one foot of floodwater depth and less than 18 hours lead time is generally restricted to moving highly valued property, such as automobiles and major equipment, out of harm's way.

### Study Description

The City of Muscatine has requested assistance in identifying and evaluating levee breach/overtopping scenarios to assist in their development of emergency action procedures including evacuation planning. Capacity exceedance is estimated based on the information compiled on flood flow and stage exceedance including associated uncertainties, and levee embankment and associated structure potential failure probabilities. At a stakeholder's workgroup meeting held August 30, 2012, three breach locations were identified and these locations are shown on Figure 1. Figure 1 also shows the extent of the area protected by the levee system. The 15.6 mile main stem sand levee along with a downstream sandy-clay flank levee protects 30,800 acres of industrial, agricultural and residential land. The protected area contains several critical facilities identified by the stakeholders and their locations are shown in Figure 2. These facilities include large industrial, commercial, utility and transportation centers that would potentially be threatened by a levee breach.

Hydraulic modeling for breach development analysis and development of time series inundation mapping was performed. Breach analysis was performed with HEC-RAS. Hydraulic analysis includes computing and displaying rates of levee system flood water inundation and flood water evacuation. Inundation analysis was performed with FLO-2D. Table 1 shows time to 1ft and 2ft depth (in hours) for identified critical facilities. Study deliverables include the analysis and documentation of failure scenarios and timing and inundation mapping to serve as input for the city and other stakeholder's emergency preparedness planning, and selection of evacuation routes and procedures.

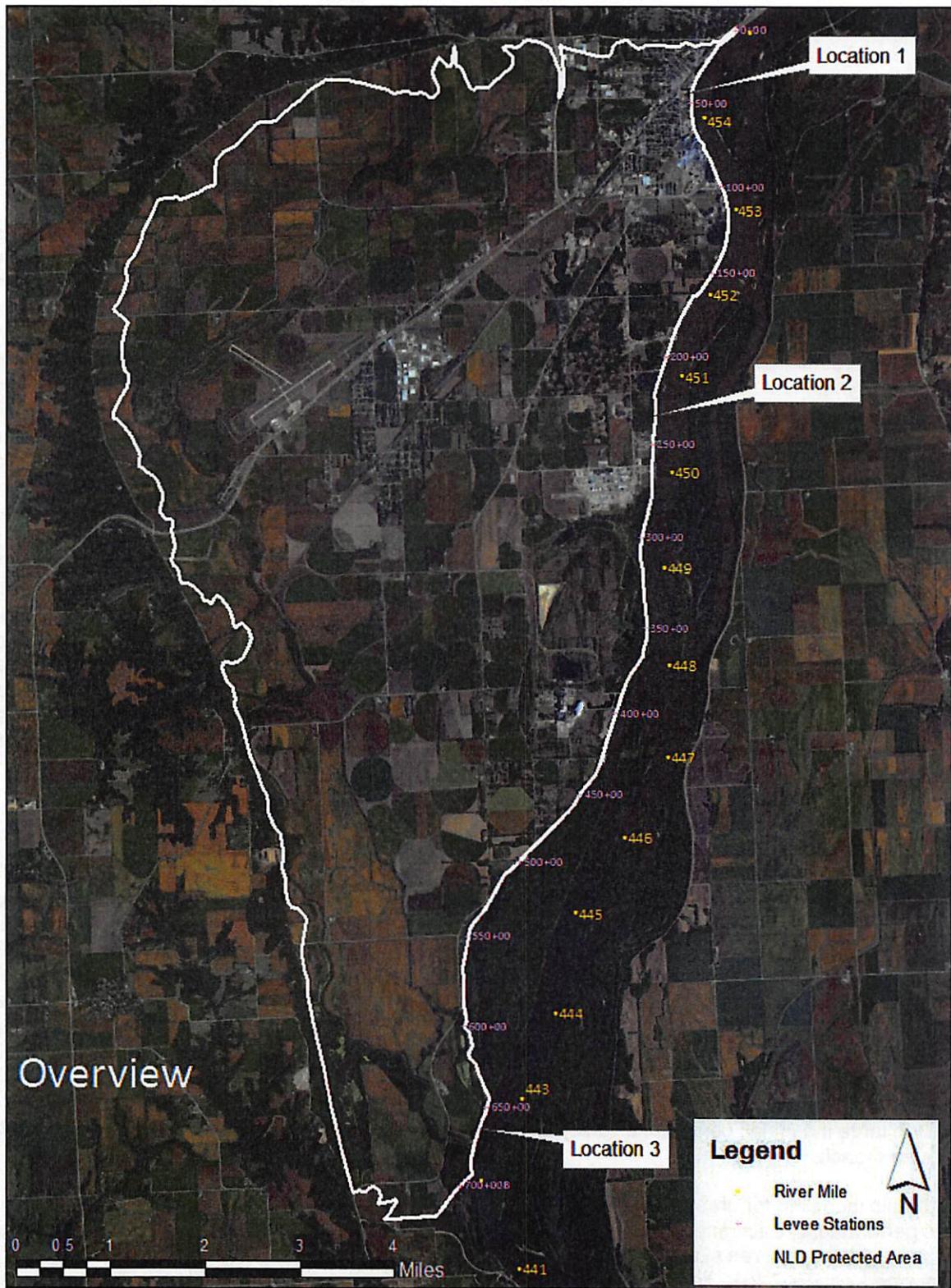


Figure 1: Locations of Simulated Levee Breaches for Muscatine Island, IA

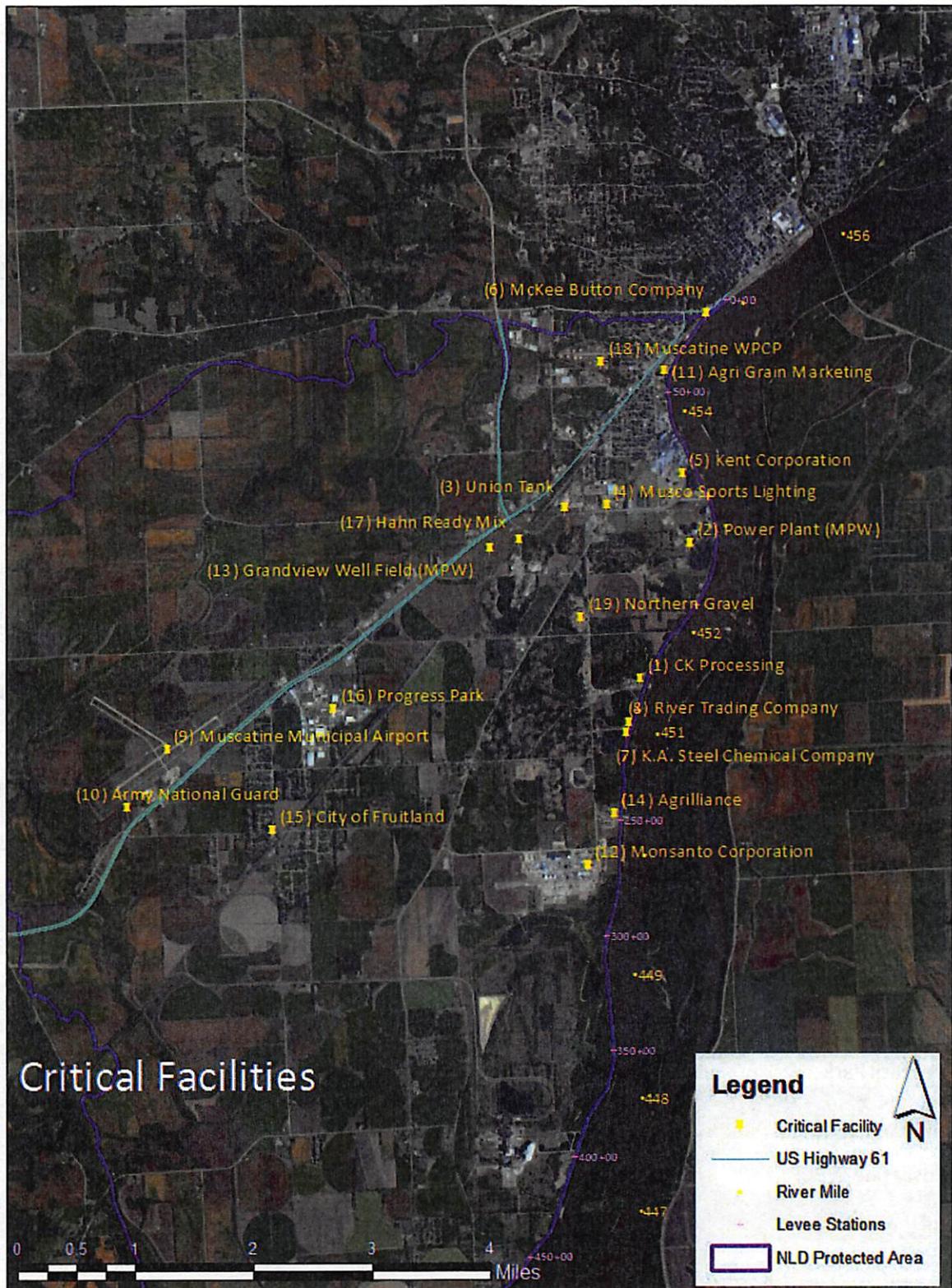


Figure 2: Critical facilities for Muscatine Island identified during Stakeholder Meeting

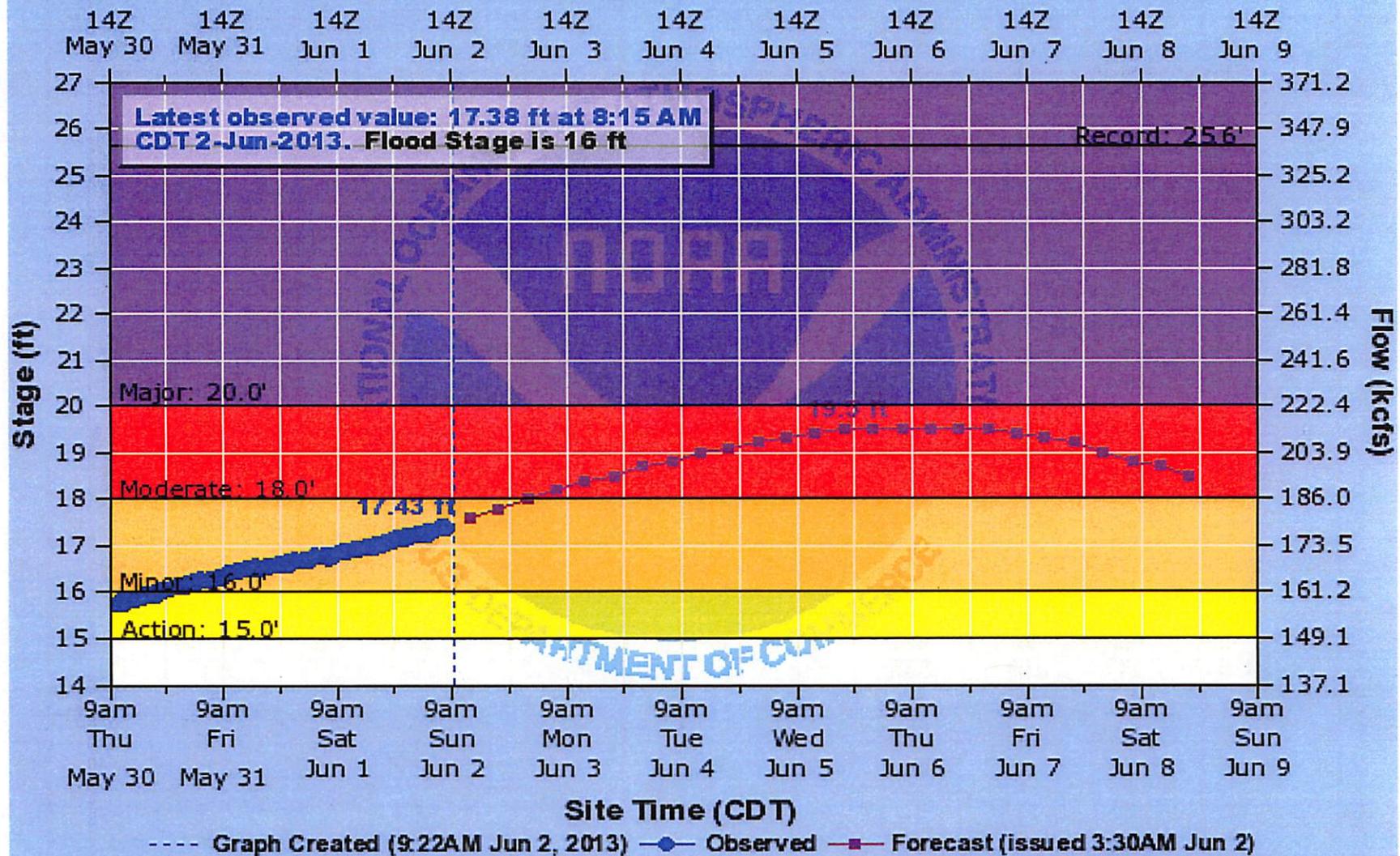
**Table 1: Time to 1ft and 2ft depth (in hours) for identified critical facilities**

(Time from start of breach)

Name	ID Number	Element Number	Location 1		Location 2		Location 3	
			1ft	2ft	1ft	2ft	1ft	2ft
CK Processing	1	6697	43	47	7	7	25	25
Power Plant (MPW)	2	3635	83	98	40	46	186	219
Union Tank	3	2853	21	36	15	17	32	34
Musco Sports Lighting	4	2860	62	70	35	37	47	72
Kent Corporation	5	2196	63	73	37	40	59	176
McKee Button Company	6	1	64	73	39	43	110	195
K.A. Steel Chemical Company	7	7666	57	67	7	8	25	27
River Trading Company	8	7785	56	67	7	7	24	26
Muscatine Municipal Airport	9	8057	69	82	36	37	33	36
Army National Guard	10	9233	92	100	38	41	37	49
Agri Grain Marketing	11	451	57	66	38	41	62	179
Monsanto Corporation	12	10451	58	66	7	10	22	23
Grandview Well Field (MPW)	13	3727	28	43	16	17	31	33
Agrilliance	14	9436	73	90	9	11	24	25
City of Fruitland	15	9719	79	96	36	38	30	40
Progress Park	16	7252	59	65	32	34	31	34
Hahn Ready Mix	17	3476	103	110	45	124	211	NA
Muscatine WPCP	18	317	18	28	24	30	36	38
Northern Gravel	19	5305	93	102	37	42	171	206

# MISSISSIPPI RIVER AT MUSCATINE

Universal Time (UTC)



MUSI4(plotting HGIRG) "Gage 0" Datum: 530.74'

Observations courtesy of U.S. Army Corps of Engineers