

**DETAILED PROJECT REPORT
WITH ENVIRONMENTAL ASSESSMENT**

SECTION 205 FLOOD DAMAGE REDUCTION STUDY

**MAD CREEK
MUSCATINE, MUSCATINE COUNTY, IOWA**

**APPENDIX G
COST ESTIMATES – ALTERNATIVES AND SELECTED PLAN**

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**APPENDIX G
COST ESTIMATES – ALTERNATIVES AND SELECTED PLAN**

1. GENERAL

Table G-1 summarizes the project costs for each alternative studied for the Mad Creek Section 205 Flood Reduction Study. For each alternative, a preliminary unit cost estimate was prepared to determine the project cost (Tables G-2 through G-13). For the preliminary estimates, the level of detail is consistent with the level of design. A detailed estimate was developed for the National Economic Development (NED) plan using the Micro Computer Aided Cost Estimating System (MCACES) (see pages G-15 through G-19). This detailed estimate was prepared using preliminary project plans, information gathered from site visits and discussions with design team members and the local sponsor, and review of similar construction projects. The MCACES estimate incorporated local wage and equipment rates. Costs, including appropriate contingencies, are presented in accordance with EC 1110-2-1302, Civil Works Cost Engineering and EC 1110-2-538, Civil Works Project Cost Estimating – Code of Accounts.

2. PRICE LEVEL

The estimates are prepared to a June 2002 price level. These costs are considered to be fair and reasonable to a well-equipped and capable contractor and include overhead and profit. Calculation of the Fully Funded Estimate (FFE) was done in accordance with guidance from EM 1110-2-1304, Civil Works Construction Cost Index System (CWCCIS), updated March 2002. The project will be constructed in one stage. The midpoint of construction was used to determine the FFE.

3. CONTINGENCY DISCUSSION

After review of project documents and discussion with engineering and construction personnel involved in the project, cost contingencies were developed which reflect the uncertainty associated with each cost item. These contingencies are based on qualified cost engineering judgment of the available design data, type of work involved, and uncertainties associated with the work and schedule. The overall contingency for the cost estimate is about 25%. The basis for the selection of the contingency factor is primarily due to the conceptual design of a project feature, unknown quantities, and unknown site conditions. Many of the project features can be constructed using conventional methods and are similar to previous Rock Island District projects.

TABLE G-1. SUMMARY OF COST ALTERNATIVES

Alternative Designation	Alternative Description	Alternative Project Cost *
A-1a	Mad Creek - 1 ft Levee Raise - Reach 1	\$1,775,000.00
A-1b	Mad Creek 2 ft Levee Raise - Reach 1	\$2,088,000.00
A-1c	Mad Creek 3 ft Levee Raise - Reach 1	\$2,817,000.00
A-2	Mad Creek Railroad Raise - Reach 2	\$1,207,000.00
A-3	Geneva Creek Closures - Reach 3	\$721,000.00
B	Mad Creek and Geneva Creek Dams	\$8,042,000.00
C-1	Mad Creek and Geneva Creek Dams and 1 ft Levee Raise -Reach 1/4	\$9,655,000.00
C-2	Mad Creek and Geneva Creek Dams and 1 ft Levee Raise -Reach 2	\$9,036,000.00
C-3	Mad Creek and Geneva Creek Dams and Reach 3 Closures	\$8,552,000.00
D-1	Mad Creek Channel Improvements and 1 ft Levee Raise - Reach 1/4	\$3,255,000.00
D-2	Mad Creek Channel Improvements and 2 ft Levee Raise - Reach 1/4	\$3,445,000.00
D-3	Mad Creek Channel Improvements and 3 ft Levee Raise - Reach 1/4	\$4,242,000.00

* Total Project Cost includes Real Estate, Relocations, Construction Costs (w/overhead and profit and contingency), Planning, Engineering and Design, and Construction Management. Price level of estimates - June 2002

TABLE G-2. PROJECT COST FOR ALTERNATIVE A-1a

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$393,000.00	\$393,000.00
2	Relocations	\$62,500.00	\$62,500.00
11	Levees and Floodwalls		
11.0.A	Mob/Demob	\$23,562.00	
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 1 ft raise	\$31,968.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 1 ft raise	\$12,417.00	
11.0.2	Extend height of flood wall at 2nd /5th St-1 ft raise	\$203,961.00	
11.0.2	2nd St Closure Structure	\$590,477.00	
11.0.G	3 Gatewells at Mad Creek	\$74,935.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$1,009,420.00
30	Planning, Engineering and Design	\$214,000.00	\$214,000.00
31	Construction Management	\$96,000.00	\$96,000.00
	Total Project Cost - Alternative A-1a		\$1,774,920.00
	* All construction costs include overhead and profit and contingency.		

TABLE G-3. PROJECT COST FOR ALTERNATIVE A-1b

G-4

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$393,000.00	\$393,000.00
2	Relocations	\$62,500.00	\$62,500.00
11	Levees and Floodwalls		
11.0.A	Mob/Demob	\$23,562.00	
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 2 ft raise	\$59,115.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 2 ft raise	\$16,091.00	
11.0.2	Extend height of flood wall at 2nd /5th St-2 ft raise	\$263,559.00	
11.0.2	Railroad Closure Structure	\$151,470.00	
11.0.2	2nd St Closure Structure	\$590,446.00	
11.0.G	3 Gatewells at Mad Creek	\$75,580.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$1,251,923.00
30	Planning, Engineering and Design	\$263,000.00	\$263,000.00
31	Construction Management	\$118,000.00	\$118,000.00
Total Cost - Alternative A-1b			\$2,088,423.00

* All construction costs include overhead and profit and contingency.

TABLE G-4. PROJECT COST FOR ALTERNATIVE A-1c

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$393,000.00	\$393,000.00
2	Relocations	\$62,500.00	\$62,500.00
11	Levees and Floodwalls		
11.0.A	Mob/Demob	\$23,562.00	
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 3 ft raise	\$221,744.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 3 ft raise	\$78,823.00	
11.0.2	Extend height of flood wall at 2nd /5th St-3 ft raise	\$587,455.00	
11.0.2	Railroad Closure Structure	\$166,210.00	
11.0.2	2nd St Closure Structure	\$590,446.00	
11.0.G	3 Gatewells at Mad Creek	\$76,226.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$1,816,566.00
30	Planning, Engineering and Design	\$376,000.00	\$376,000.00
31	Construction Management	\$169,000.00	\$169,000.00
Total Cost - Alternative A-1c			\$2,817,066.00

* All construction costs include overhead and profit and contingency.

TABLE G-5. PROJECT COST FOR ALTERNATIVE A-2

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$138,000.00	\$138,000.00
2	Relocations	\$62,500.00	\$62,500.00
11	Levees and Floodwalls		
11.0.A	Mob/Demob	\$29,453.00	
11.0.2	Construct closure at 9th St/extend levee from 19+46-9th St and extend levee from 9th St to Sta 40+00	\$343,710.00	
11.0.2	Raise RR Track and Road at Washington St	\$187,694.00	
11.0.2	Railroad Closure at Sta 19+46	\$132,907.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$765,864.00
30	Planning, Engineering and Design	\$166,000.00	\$166,000.00
31	Construction Management	\$75,000.00	\$75,000.00
Total Cost - Alternative A-2			\$1,207,364.00

* All construction costs include overhead and profit and contingency.

TABLE G-6. PROJECT COST FOR ALTERNATIVE A-3

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$36,000.00	\$36,000.00
2	Relocations	\$62,500.00	\$62,500.00
11	Levees and Floodwalls		
11.0.A	Mob/Demob	\$29,453.00	
11.0.2	Isett Avenue Gate Closure	\$223,555.00	
11.0.2	Gate Closure Structure at Heinz Bridge	\$143,375.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$468,483.00
30	Planning, Engineering and Design	\$106,000.00	\$106,000.00
31	Construction Management	\$48,000.00	\$48,000.00
	Total Cost - Alternative A-3		\$720,983.00

* All construction costs include overhead and profit and contingency.

TABLE G-7. PROJECT COST FOR ALTERNATIVE B

G-8

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$2,874,000.00	\$2,874,000.00
4	Dams		
4.1.6	Geneva Creek Earthen Fill Dam	\$1,339,691.00	
4.1.6	Mad Creek Earthen Fill Dam	\$1,493,791.00	
4.1.R	Geneva Creek Seeding	\$19,250.00	
4.1.R	Mad Creek Seeding	\$27,108.00	
4.1.R	Mad Creek Access Road	\$60,893.00	
4.2	Geneva Creek Spillway	\$71,351.00	
4.2	Mad Creek Spillway	\$71,351.00	
4.3	Geneva Outlet Structure	\$37,225.00	
4.2	Mad Creek Outlet Structure	\$50,456.00	
4	Total Cost -Dam		\$3,171,116.00
11	Levees and Floodwalls		
11.0.R	Flood Warning System	\$72,100.00	\$72,100.00
19	Buildings, Grounds, and Utilities		
19.0.4	Lagoons	\$762,789.00	\$762,789.00
30	Planning, Engineering and Design	\$801,000.00	\$801,000.00
31	Construction Management	\$361,000.00	\$361,000.00
	Total Cost - Alternative B		\$8,042,005.00

* All construction costs include overhead and profit and contingency.

TABLE G-8. PROJECT COST FOR ALTERNATIVE C-1

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$3,308,000.00	\$3,308,000.00
4	Dams		
4.1.6	Geneva Creek Earthen Fill Dam	\$1,339,691.00	
4.1.6	Mad Creek Earthen Fill Dam	\$1,493,791.00	
4.1.R	Geneva Creek Seeding	\$19,251.00	
4.1.R	Mad Creek Seeding	\$27,108.00	
4.1.R	Mad Creek Access Road	\$60,893.00	
4.2	Geneva Creek Spillway	\$71,351.00	
4.2	Mad Creek Spillway	\$71,351.00	
4.3	Geneva Outlet Structure	\$37,225.00	
4.2	Mad Creek Outlet Structure	\$50,456.00	
4	Total Cost -Dam		\$3,171,117.00
11	Levees and Floodwalls		
11.0.1	Extend height of flood wall at 2nd /5th St-1 ft raise	\$203,961.00	
11.0.1	Raise elevation from 2nd Sta 19+46- 1 ft raise	\$31,968.00	
11.0.1	Raise levee elevation from Miss R to 2nd St - 1 ft	\$12,417.00	
11.0.2	2nd St Closure Structure	\$590,466.00	
11.0.G	3 Gatewells at Mad Creek	\$74,935.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total-Levees and Floodwalls		\$985,847.00
19	Buildings, Grounds, and Utilities		
19.0.4	Lagoons	\$762,788.00	\$762,788.00
30	Planning, Engineering and Design	\$984,000.00	\$984,000.00
31	Construction Management	\$443,000.00	\$443,000.00
	Total Cost - Alternative C-1		\$9,654,752.00

* All construction costs include overhead and profit and contingency.

TABLE G-9. PROJECT COST FOR ALTERNATIVE C-2

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$3,012,000.00	\$3,012,000.00
4	Dams		
4.1.6	Geneva Creek Earthen Fill Dam	\$1,339,691.00	
4.1.6	Mad Creek Earthen Fill Dam	\$1,493,791.00	
4.1.R	Geneva Creek Seeding	\$19,251.00	
4.1.R	Mad Creek Seeding	\$27,108.00	
4.1.R	Mad Creek Access Road	\$60,893.00	
4.2	Geneva Creek Spillway	\$71,351.00	
4.2	Mad Creek Spillway	\$71,351.00	
4.3	Geneva Outlet Structure	\$37,225.00	
4.2	Mad Creek Outlet Structure	\$50,456.00	
4	Total Cost -Dam		\$3,171,117.00
G-10 11	Levees and Floodwalls		
11.0.C	Raise RR Track and Road at Washington Street	\$187,694.00	
11.0.1	Extend levee from 19+46 to 9th St, construct a closure at 9th Street and extend levee from 9th St to Sta 40+00	\$343,710.00	
11.0.2	Construct RR closure structure at Sta 19+46	\$132,907.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total-Levees and Floodwalls		\$736,411.00
19	Buildings, Grounds, and Utilities		
19.0.4	Lagoons	\$762,788.00	\$762,788.00
30	Planning, Engineering and Design	\$934,000.00	\$934,000.00
31	Construction Management	\$420,000.00	\$420,000.00
	Total Cost - Alternative C-2		\$9,036,316.00

* All construction costs include overhead and profit and contingency.

TABLE G-10. PROJECT COST FOR ALTERNATIVE C-3

G-11

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$2,910,000.00	\$2,910,000.00
4	Dams		
4.1.6	Geneva Creek Earthen Fill Dam	\$1,339,691.00	
4.1.6	Mad Creek Earthen Fill Dam	\$1,493,791.00	
4.1.R	Geneva Creek Seeding	\$19,251.00	
4.1.R	Mad Creek Seeding	\$27,108.00	
4.1.R	Mad Creek Access Road	\$60,893.00	
4.2	Geneva Creek Spillway	\$71,351.00	
4.2	Mad Creek Spillway	\$71,351.00	
4.3	Geneva Outlet Structure	\$37,225.00	
4.2	Mad Creek Outlet Structure	\$50,456.00	
4	Total Cost -Dam		\$3,171,117.00
11	Levees and Floodwalls		
11.0.2	Isett Avenue Gate Closure	\$223,555.00	
11.0.2	Gate Closure Structure at Heinz Bridge	\$143,376.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total-Levees and Floodwalls		\$439,031.00
19	Buildings, Grounds, and Utilities		
19.0.4	Lagoons	\$762,788.00	\$762,788.00
30	Planning, Engineering and Design	\$875,000.00	\$875,000.00
31	Construction Management	\$394,000.00	\$394,000.00
	Total Cost - Alternative C-3		\$8,551,936.00

* All construction costs include overhead and profit and contingency.

TABLE G-11. PROJECT COST FOR ALTERNATIVE D-1

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$598,000.00	\$598,000.00
2	Relocations	\$62,500.00	\$62,500.00
9	Channels and Canals		
9.0.A	Site Access	\$14,416.00	
9.0.A	Mob/Demobilization-Channel Improvements	\$4,475.00	
9.0.A	Mob/Demobilization-2nd St Bridge Cleanout	\$29,453.00	
9.0.A	Access Maintenance During Const-Channel Improvements	\$7,389.00	
9.0.2.B	Channel Clearing and Grubbing	\$26,390.00	
9.0.2.B	Removal of Debris/Piles	\$51,004.00	
9.0.2.B	Shaping	\$17,448.00	
9.0.2.B	2nd Street Bridge Cleanout	\$15,462.00	
9	Total Cost - Channels and Canals		\$166,037.00
11	Levees and Floodwalls		
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 1 ft raise	\$31,968.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 1 ft raise	\$12,416.00	
11.0.1	Raise levee elev from end of Miss Rvr floodwall to Mad Creek - 1 ft	\$11,553.00	
11.0.2	Extend height of flood wall at 2nd /5th St-1 ft raise	\$203,961.00	
11.0.2	Extend height of flood wall Mulberry to Levee-1 ft	\$203,068.00	
11.0.2	New T-wall - Mississippi Dr Closure Wall	\$188,179.00	
11.0.2	New I-wall - Mississippi Dr Closure Wall	\$6,578.00	
11.0.2	Bulkhead - Mississippi Dr Closure Wall	\$70,625.00	
11.0.2	2nd St Closure Structure	\$590,446.00	
11.0.2	Railroad Closure Structure	\$151,278.00	
11.0.2	Closure Structure at Bike Trail	\$110,000.00	
11.0.G	3 Gatewells at Mad Creek	\$74,935.00	
11.0.R	Seeding - Mississippi Closure Wall	\$915.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$1,728,022.00
13	Pumping Plant		
13.0.2	Pumping Plant Superstructure	\$37,500.00	\$37,500.00
30	Planning, Engineering and Design	\$484,000.00	\$484,000.00
31	Construction Management	\$179,000.00	\$179,000.00
	Total Cost - Alternative D-1		\$3,255,059.00

* All construction costs include overhead and profit and contingency.

TABLE G-12. PROJECT COST FOR ALTERNATIVE D-2

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$598,000.00	\$598,000.00
2	Relocations	\$62,500.00	\$62,500.00
9	Channels and Canals		
9.0.A	Site Access	\$14,416.00	
9.0.A	Mob/Demobilization-Channel Improvements	\$4,475.00	
9.0.A	Mob/Demobilization-2nd St Bridge Cleanout	\$29,453.00	
9.0.A	Access Maintenance During Const-Channel Improvements	\$7,389.00	
9.0.2.B	Channel Clearing and Grubbing	\$26,390.00	
9.0.2.B	Removal of Debris/Piles	\$51,004.00	
9.0.2.B	Shaping	\$17,448.00	
9.0.2.B	2nd Street Bridge Cleanout	\$15,462.00	
9	Total Cost - Channels and Canals		\$166,037.00
11	Levees and Floodwalls		
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 2 ft raise	\$59,115.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 2 ft raise	\$16,090.00	
11.0.1	Raise levee elev from end of Miss Rvr floodwall to Mad Creek - 2 ft	\$13,530.00	
11.0.2	Extend height of flood wall at 2nd /5th St-2 ft raise	\$263,559.00	
11.0.2	Extend height of flood wall Mulberry to Levee-2 ft	\$256,771.00	
11.0.2	New T-wall - Mississippi Dr Closure Wall	\$188,179.00	
11.0.2	New I-wall - Mississippi Dr Closure Wall	\$6,578.00	
11.0.2	Bulkhead - Mississippi Dr Closure Wall	\$70,625.00	
11.0.2	2nd St Closure Structure	\$590,150.00	
11.0.2	Railroad Closure Structure	\$151,278.00	
11.0.2	Closure Structure at Bike Trail	\$110,000.00	
11.0.G	3 Gatewells at Mad Creek	\$75,580.00	
11.0.R	Seeding - Mississippi Closure Wall	\$915.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$1,874,470.00
13	Pumping Plant		
13.0.2	Pumping Plant Superstructure	\$37,500.00	\$37,500.00
30	Planning, Engineering and Design	\$513,000.00	\$513,000.00
31	Construction Management	\$193,000.00	\$193,000.00
	Total Cost - Alternative D-2		\$3,444,507.00

* All construction costs include overhead and profit and contingency.

TABLE G-13. PROJECT COST FOR ALTERNATIVE D-3

Account Code	Item	Feature Cost*	Sub-Total Cost by Feature
1	Lands and Damages	\$598,000.00	\$598,000.00
2	Relocations	\$62,500.00	\$62,500.00
9	Channels and Canals		
9.0.A	Site Access	\$14,416.00	
9.0.A	Mob/Demobilization-Channel Improvements	\$4,475.00	
9.0.A	Mob/Demobilization-2nd St Bridge Cleanout	\$29,453.00	
9.0.A	Access Maintenance During Const-Channel Improvements	\$7,389.00	
9.0.2.B	Channel Clearing and Grubbing	\$26,390.00	
9.0.2.B	Removal of Debris/Piles	\$51,004.00	
9.0.2.B	Shaping	\$17,448.00	
9.0.2.B	2nd Street Bridge Cleanout	\$15,462.00	
9	Total Cost - Channels and Canals		\$166,037.00
11	Levees and Floodwalls		
11.0.1	Raise levee elevation from 2nd to Sta 19+46- 3 ft raise	\$221,744.00	
11.0.1	Raise elevation from Miss Rvr to 2nd Str - 3 ft raise	\$78,823.00	
11.0.1	Raise levee elev from end of Miss Rvr floodwall to Mad Creek - 2 ft	\$79,235.00	
11.0.2	Extend height of flood wall at 2nd /5th St-3 ft raise	\$587,455.00	
11.0.2	Extend height of flood wall Mulberry to Levee-3 ft	\$244,298.00	
11.0.2	New T-wall - Mississippi Dr Closure Wall	\$188,179.00	
11.0.2	New I-wall - Mississippi Dr Closure Wall	\$6,578.00	
11.0.2	Bulkhead - Mississippi Dr Closure Wall	\$70,625.00	
11.0.2	2nd St Closure Structure	\$590,446.00	
11.0.2	Railroad Closure Structure	\$166,210.00	
11.0.2	Closure Structure at Bike Trail	\$110,000.00	
11.0.G	3 Gatewells at Mad Creek	\$76,226.00	
11.0.R	Seeding - Mississippi Closure Wall	\$915.00	
11.0.R	Flood Warning System	\$72,100.00	
11	Total Cost - Levees and Floodwalls		\$2,492,834.00
13	Pumping Plant		
13.0.2	Pumping Plant Superstructure	\$37,500.00	\$37,500.00
30	Planning, Engineering and Design	\$637,000.00	\$637,000.00
31	Construction Management	\$248,000.00	\$248,000.00
	Total Cost - Alternative D-3		\$4,241,871.00

* All construction costs include overhead and profit and contingency.

Mon 16 Dec 2002
Eff. Date 03/01/02

Tri-Service Automated Cost Engineering System (TRACES)
PROJECT MADDEC: Mad Creek LFP - Muscatine County, IA
Rock Island District

TIME 13:01:27
TITLE PAGE 1

Mad Creek LFP
Muscatine County, IA

Designed By: CEMVR-ED-D
Estimated By: David A. Bequeaith

Prepared By: CEMVR-ED-C

Preparation Date: 06/14/02
Effective Date of Pricing: 03/01/02

Sales Tax: 7.0%

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by Building Systems Design, Inc.
Release 1.2

LABOR ID: MADCRK EQUIP ID: RG0599

Currency in DOLLARS

CREW ID: NAT00A UPB ID: UP01EA

G-15

Mon 16 Dec 2002
Eff. Date 03/01/02
PROJECT NOTES

Tri-Service Automated Cost Engineering System (TRACES)
PROJECT MADDEC: Mad Creek LFP - Muscatine County, IA
Rock Island District

TIME 13:01:27
TITLE PAGE 2

This estimate was prepared for the Section 205 Flood Damage Reduction Study, Mad Creek, Muscatine, Muscatine County, IA. This estimate was prepared using preliminary plans. This construction project is anticipated to be awarded in June 2004 and completed in June 2006.

G-16

LABOR ID: MADCRK EQUIP ID: RG0599

Currency in DOLLARS

CREW ID: NAT00A UPB ID: UP01EA

Mon 16 Dec 2002
Eff. Date 03/01/02
CONTINGENCIES

Tri-Service Automated Cost Engineering System (TRACES)
PROJECT MADDEC: Mad Creek LFP - Muscatine County, IA
Rock Island District

TIME 13:01:27
TITLE PAGE 3

-
1. Conceptual design only
 2. Uncertainty in quantity
 3. Unknown Site Conditions

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LABOR ID: MADCRK EQUIP ID: RG0599

Currency in DOLLARS

CREW ID: NAT00A UPB ID: UP01EA

Mon 16 Dec 2002
Eff. Date 03/01/02

Tri-Service Automated Cost Engineering System (TRACES)
PROJECT MADDEC: Mad Creek LFP - Muscatine County, IA
Rock Island District
** PROJECT OWNER SUMMARY - Contract **

TIME 13:01:27
SUMMARY PAGE 1

	QUANTITY	UOM	CONTRACT	CONTINGN	ESCALATN	TOTAL COST	UNIT	NOTES
01 D-2 Imp Mad Chnl w/2ft Raise Rea	1.00	EA	3,047,329	397,178	221,513	3,666,020	3666020	
TOTAL Mad Creek LFP	1.00	EA	3,047,329	397,178	221,513	3,666,020	3666020	

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LABOR ID: MADCRK EQUIP ID: RG0599

Currency in DOLLARS

CREW ID: NAT00A UPB ID: UP01EA

Mon 16 Dec 2002
 Eff. Date 03/01/02

Tri-Service Automated Cost Engineering System (TRACES)
 PROJECT MADDEC: Mad Creek LFP - Muscatine County, IA
 Rock Island District
 ** PROJECT OWNER SUMMARY - Feature **

TIME 13:01:27
 SUMMARY PAGE 2

		QUANTITY	UOM	CONTRACT	CONTINGN	ESCALATN	TOTAL COST	UNIT	NOTES

01	D-2 Imp Mad Chnl w/2ft Raise Rea								
01_	01 Lands and Damages	1.00	EA	598,000	0	0	598,000	598000	
01_	02 Relocations	1.00	EA	50,000	12,500	5,147	67,647	67647	
01_	09 Channels and Canals	1.00	EA	132,830	33,207	13,663	179,700	179700	
01_	11 Levees and Floodwalls	1.00	EA	1,530,499	343,971	152,394	2,026,864	2026864	1,2,3
01_	13 Pumping Plant Superstr	1.00	EA	30,000	7,500	3,040	40,540	40540	
01_	30 PED	1.00	EA	513,000	0	31,683	544,683	544683	
01_	31 Construction Management	1.00	EA	193,000	0	15,586	208,586	208586	
	TOTAL D-2 Imp Mad Chnl w/2ft Raise Rea	1.00	EA	3,047,329	397,178	221,513	3,666,020	3666020	
	TOTAL Mad Creek LFP	1.00	EA	3,047,329	397,178	221,513	3,666,020	3666020	

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LABOR ID: MADCRK EQUIP ID: RG0599

Currency in DOLLARS

CREW ID: NAT00A UPB ID: UP01EA