

**Programs, Projects & Operations  
Subcommittee Meeting  
November 10, 2009  
6:40 p.m.  
(or immediately following the Ad Hoc Subcommittee Meeting)  
Agenda**

**Programs, Projects & Operations:**

John Conley, Chairman  
Rich Tesar, Vice-Chairman  
David Klug  
Rick Kolowski  
John Schwope

**Alternate Members:** Fred Conley  
Tim Fowler

**Staff Liaison:** Gerry Bowen  
Martin Cleveland  
Amanda Grint  
Ralph Puls \*  
Dick Sklenar

1. Meeting Called to Order – Vice-Chairperson Tesar
2. Notification of Open Meetings Act Posting and Announcement of Meeting Procedure – Chairperson John Conley
3. Quorum Call
4. Adoption of Agenda
5. Proof of Publication of Meeting Notice
6. Review and Recommendation on Interlocal Agreement with City of Omaha on Carter Lake Water Quality Project – Gerry Bowen, Steve Scarpello, City of Omaha Parks Department and Sara Hanson, Tetra Tech
7. Review and Recommendation on Road Structure Cost-Sharing Application from Douglas County Highway Department – Dick Sklenar and Don Nielsen, Douglas County Engineer
8. Review and Recommendation on Waterloo Levee Design Contract – Amendment #2 – Amanda Grint and Mark Augustine, JEO
9. Review and Recommendation on Papio Creek Bank Stabilization Project Bids – Martin Cleveland

10. Review and Recommendation on Western Sarpy Clear Creek Levee Project – Segment #3 Construction (Fairview to Lincoln Road) Martin Cleveland

- a. Qwest Communication Cable Relocation
- b. OPPD Above Ground Power Line Relocation

11. Adjourn

## Memorandum

To: Programs, Projects and Operations Subcommittee

Subject: Carter Lake Water Quality Improvement Project – Interlocal Cooperation Act  
Agreement with the City of Omaha

Date: November 3, 2009

From: Gerry Bowen

The District staff has been working with the various agencies on the Carter Lake Water Quality Improvement Project since 2006. The partners in the project are the Cities of Carter Lake and Omaha, Nebraska Department of Environmental Quality (NDEQ), Nebraska Game and Parks Commission (NGPC), Iowa Department of Natural Resources (IDNR), West Pottawatomie Soil & Water Conservation District (SWCD), and UN-L Cooperative Extension. It is anticipated that the project will improve the water quality of Carter Lake for a wide variety of recreational pursuits.

A local watershed council, the CLEAR Council (Carter Lake Environmental Assessment and Rehabilitation), was formed. A consultant (Olsson Associates) was hired to study the lake and the watershed to determine the water quality problems, and the possible sources. The overabundance of nutrients, predominantly phosphorus, was the cause of the water quality problems. The CLEAR Council set the following goals:

- Objective 1. Increase growing season median water clarity from 16 inches to 54 inches to meet the Iowa Lake Restoration Program Goal, but not to fall below 30 inches to meet the TMDL goal.
- Objective 2. Reduce growing season in-lake total phosphorus from 153 ug/l to 75 ug/l.
- Objective 3. Reduce growing season in-lake nitrogen from 2,140 ug/l to 409 ug/l.
- Objective 4. Decrease growing season median chlorophyll *a* concentrations from 59 mg/m<sup>3</sup> to 21 mg/m<sup>3</sup>.
- Objective 5. Maintain water column average dissolved oxygen above 5.0 mg/l throughout the year.
- Objective 6. Maintain healthy aquatic habitats that support balanced populations of fish, amphibians/reptiles and invertebrates.

A consultant (Tetra Tech) was hired to evaluate the various water quality measures that could be used to meet the Council's goals. The technical committee evaluated those items and recommended a list of practices (list and map attached) to be included in the final implementation plan. The list of measures include both watershed and in-lake measures. The in-lake measures include limiting high-speed watercraft usage. Since the lake is shallow, the boating activity re-suspends solids from the lake bed, also a source of excess nutrients. A whole-lake alum treatment is planned to clear the water column of solids and the nutrients attached to those solids.

Watershed measures include the installation of settling ponds for the various storm sewers outletting to the lake.

The CLEAR Council has yet to comment on this list, however, meetings with the Council and the general public are planned for November or December to receive their input.

The estimated total cost of these measures is \$5.8 million. The anticipated funding sources are shown below:

City of Omaha	\$500,000
Nebraska Game & Parks Commission	\$1,573,000
Nebraska DEQ 319	\$855,000
Iowa DNR 319	\$382,000
Iowa Legislature Special Appropriation	\$2,490,000
Total	<b>\$5,800,000</b>

The City of Carter Lake is contributing “in-kind” services for the project. These services include the expenses associated with a full-time project coordinator (salary, benefits, expenses, and office accommodations).

The City of Omaha has committed \$500,000 to the project. They are asking for cost sharing from the District of half this amount or, \$250,000. The attached draft interlocal agreement calls for the District’s share to be paid in five annual installments of \$50,000 beginning this fiscal year. The first installment is included in the FY 2010 Budget.

A “sister” project is being undertaken by the two cities to stabilize the water level in the lake by drilling and operating a diagonal well under the bed of the Missouri River. The hope is to stabilize the water level at 970.3 feet msl. This level has been determined to be the “normal” lake elevation. Funding for this measure has been secured by an earmark from the Iowa Legislature. Matching funds are being provided by the Cities of Carter Lake and Omaha. The District is not being asked to participate in the funding for this measure.

- **It is recommended that the Subcommittee recommend to the Board that the General Manager be authorized to execute an Interlocal Agreement with the City of Omaha for the Carter Lake Water Quality Improvement Project, subject to changes deemed necessary by the General Manager and approved as to form by District Legal Counsel.**

## MEMORANDUM

**TO:** Programs Planning and Operations Subcommittee

**Subject:** Application for Road Structure Cost Sharing Assistance

**Date:** October 21, 2009

**From:** Dick Sklenar

The District has received an application from the Douglas County Highway Department for financial assistance under the District's Road Structure Program to replace an existing concrete box culvert. The replacement would be a 72 inch corrugated pipe culvert with a drop inlet that would remove approximately 8 feet of grade from the drainageway. The site is located about ½ mile west of the intersection of 204<sup>th</sup> and 'F' Street.

The objective of the District's Road Structure Program is to provide technical and financial assistance on eligible road structure projects located at stream crossings, or projects that would benefit county roadways or bridges, that are contracted by the County. Eligible projects require that a least five feet of grade must be removed from the channel and that plans and specifications for the project be reviewed by the District prior to the initiation of construction. The District level of financial assistance for projects amounts to 75% of total eligible construction cost not to exceed \$150,000 per project. Cost sharing assistance by the District shall not include those costs incurred by the County for guard rails, roadway surfacing, traffic signs or signals, relocation of utilities, purchase of land rights, engineering, inspection, administrative costs, and work performed by county personnel and equipment.

The total estimated cost of this project is expected to be approximately \$210,000 of which \$170,000 are eligible construction costs. The request for financial assistance for this project amounts to \$127,500 (75% of eligible costs).

- **The staff recommends that the Subcommittee recommends to the Board of Directors that the Douglas County Highway Department application for financial assistance on a road structure project located about 1/2 mile west of 204<sup>th</sup> and F Street be approved for financial assistance, not to exceed \$127,500 and subject to fiscal year 2011 budget.**

# Memorandum

**To:** PPO Subcommittee

**Re:** Waterloo Levee Design Contract Amendment #2

**Date:** November 2, 2009

**From:** Amanda Grint, Water Resources Engineer

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In August 2009, the Board approved Contract Amendment #1 to amend the interlocal agreement with the Village of Waterloo to cost share (50/50) on the design of the levee improvements in order to certify the levee. The levee certification process is necessary in order for the Waterloo levee to continue to provide 100 year flood protection for the Village. Contract Amendment #1 brought the total of the contract to \$438,000 and the District share to \$219,000. At that time Stan Benke, the Village Chairperson, addressed the Board and told them that the Village was going to move forward to meet the FEMA requirements to certify the levee and that it would not meet the USACE requirements of the PL 8499 program. Through a series of discussions the USACE noted that they would require a 408 submittal which designates the levee improvements as a major modification and requires a lengthy submittal and review process. The Village felt that the time and money necessary to meet the USACE requirements would not allow them to meet the FEMA requirements or would delay the project so long that the inflated costs would put the project in jeopardy.

Since that time there has been communication between the USACE and the Village of Waterloo, see attached letter from Stan Benke, Waterloo Board Chairman to USACE. Since the Waterloo levee is a federally funded and authorized levee, the 408 submittal process is not voluntary and the USACE has since provided additional guidance and support so that the Village can accomplish both FEMA and USACE requirements.

In order to address the USACE 408 submittal and USACE design comments the following items have been added to the scope for Contract Amendment #2:

- Additional geotech work
- Redesign to remove the proposed floodwall
- Redesign of the interior drainage structures
- Additional easement work and negotiation with landowners
- Risk and Reliability Analysis
- NEPA Documentation
- Independent External Peer Review
- Additional Coordination meetings

The total amount of Contract Amendment #2 is \$125,000 which brings the total amended contract to \$562,580.00. The District is asked to consider a 50/50 cost share of Contract amendment #2 of \$62,500 which brings the total District contribution to \$281,500.00.

- **Management recommends that the Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute for and on behalf of the District a revision to the interlocal agreement between the District and the Village of Waterloo for the reconstruction of the Waterloo Levee, such revision providing for the equal sharing of increases in the engineering fee resulting from Contract Amendment #2 to the contract with JEO Consulting Group for the Design of Levee Improvements, said Contract Amendment #2 increasing to \$281,500.00 the maximum engineering fee payable under such contract, such revision to contain provisions deemed necessary by the General Manager and approved as to form by District Legal Counsel.**

# MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

SUBJECT: Papillion Creek Bank Stabilization Project Bids (Project 529J)

DATE: October 29, 2009

FROM: Martin P. Cleveland, Construction Engineer

Attached are location maps and a typical cross-section for the referenced creek bank stabilization project. The work consists of placing rock riprap along the creek bank of Big Papillion and West Branch Papillion at 4 locations in Omaha, Papillion and Bellevue, NE. The work includes the furnishing of the labor, materials, equipment, tools and incidentals necessary to install approximately 12,150 tons of rock riprap bank protection along approximately 2,670 linear feet of creek bank. The contract provides for 85 working days to complete the project.

A bid summary is attached for your consideration. The apparent low bidder is Midwest Dumpers, Inc. with a bid as follows:

SITE	EST. TONS	UNIT PRICE	TOTAL COST
A	780	31.55	\$24,609.00
B	4620	30.55	\$140,910.00
C	2750	30.80	\$84,700.00
D	4000	30.80	\$123,200.00
TOTAL	12,150		\$373,419.00

Based on the estimated total riprap quantity of 12,150 tons the total project cost (total base bid) would be \$373,419.00. The Engineer's estimate for total project cost is \$370,000.

This work will be funded via funds included in Project Maintenance General Contract Work (Account 010312 4479). As of October 2, 2009 remaining funds in this account was \$2,457,813.28. It is anticipated that this project will be completed in Fiscal Year 2010.

- **It is Management's recommendation that the Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute on behalf of the District a contract with Midwest Dumpers, Inc., for rock riprap bank stabilization work at four (4) sites on the Papillion Creek System for the total base bid of \$373,419.00.**



## MEMORANDUM

TO: Project, Programs and Operations Subcommittee

FROM: Martin P. Cleveland

SUBJECT: Western Sarpy Clear Creek Levee Project  
Segment #3 Construction (Fairview Road to Lincoln Road)  
Qwest Communication Cable Relocation

DATE: October 26, 2009

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The Corps of Engineers design staff have determined that a communications/telephone cable that serves 14 cabins located along the riverside and landside of the referenced levee project will be impacted by levee construction on the referenced reach of the project. Enclosed is a location map. The Western Sarpy Levee Segment #3 levee construction project was bid by the Corps in October and construction will start as early as December 2009.

The District is responsible, as the local sponsor for all right-of-way acquisitions and relocations. This expense will count toward the District 35% cost share. Federal (Corps) will pay 65% of total project costs.

Enclosed is a proposal from Qwest (who installed and maintains the before mentioned communications/telephone cable) for relocating the cable line so it does not conflict with the construction or operation of the new broadened levee cross-section for an estimated cost of \$77,588.70. This is the maximum estimated cost based on frozen soil conditions, which is likely to be the case in winter 2010. If the soil is not frozen the relocation cost will be as low as \$44,324.74. District staff will encourage Qwest to do this work as soon as possible, in an effort to keep the frost conditions charges as low as possible. There may a need to be some tree removal by third parties (e.g. Corps contractor or NRD contractor) to facilitate the communications cable relocation. The affected cabin owners/landowners provided “no cost” levee improvement easements over their properties (as much as 200 ft. wide) several years ago. Funding for this relocation work will come from Account No. 03 104430 (West Sarpy Land Rights, of which there is \$1,000,000 remaining as of October 2, 2009).

- **It is the Management’s recommendation that the Subcommittee recommend to the Board that the General Manager on behalf of the District be authorized to execute a contract with Qwest Communications for the relocation of Qwest Communications’ cable, as required for construction of reach of the Western Sarpy Clear Creek Flood Reduction Project from Fairview Road to Schram Road, such contract to call for an estimated maximum cost to the District of \$77,588.70.**

## MEMORANDUM

TO: Project, Programs and Operations Subcommittee

FROM: Martin P. Cleveland

SUBJECT: Western Sarpy Clear Creek Levee Project  
Segment #3 Construction (Platteview Road to Schram Road)  
OPPD Overhead Power line Relocation

DATE: November 4, 2009

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The Corps of Engineers design staff have determined that a power line that serves 14 cabins located along the riverside and landside of the referenced levee project will be impacted by levee construction on the referenced reach of the project. Enclosed is a location map. Segment #3 levee construction was bid by the Corps in October and construction will start as early as December 2009.

The District is responsible, as the local sponsor for all right-of-way acquisitions and relocations. This expense will count toward the District 35% cost share. Federal (Corps) will pay 65% of total project costs.

Enclosed is a letter from Omaha Public Power District (who installed and maintains the before mentioned power line) for relocating the power line so it does not conflict with the construction or operation of the new broadened levee cross-section for an estimated cost of \$65,245.00. There may need to be some tree removal by third parties (e.g. Corps contractor or NRD contractor) to facilitate the power line relocation. The affected cabin owners/landowners provided "no cost" levee improvement easements over their properties (as much as 200 ft. wide) several years ago. Funding for this relocation work will come from Account No. 03 104430 (West Sarpy Land Rights, of which there is \$1,000,000 remaining as of October 2, 2009).

- **It is the Management's recommendation that the Subcommittee recommend to the Board that the General Manager on behalf of the District be authorized to compensate Omaha Public Power District for the relocation of OPPD's overhead powerline in the reach of the Western Sarpy Clear Creek Levee Project from Platteview Road to Schram Road, for an estimated cost to the District of \$65,245.00.**