

# **Lake County Illinois**

*Lake County Courthouse and Administrative Complex  
18 N. County Street  
Waukegan, IL 60085-4351*



## **Agenda Report - Final**

**Wednesday, June 3, 2009**

**10:00 AM**

**Assembly Room, 10th Floor**

**Public Works and Transportation Committee**

1. Call to Order
2. Pledge of Allegiance
3. Approval of Minutes

3.1 [09-1638](#)

Minutes of April 8, 2009.

4. Public Comment

5. Added to Agenda

6. Old Business

6.1 [09-1508](#)

Joint resolution authorizing and directing the Purchasing Agent to execute a contract with R.A. Mancini, Inc., Prairie Grove, IL in the amount of \$635,275 for the Grainger Lift Station Improvements and Second Forcemain Project.

- This item was previously considered by Committee on May 6, 2009, at which time Mr. Jess Ray, Mayor elect for the Village of Mettawa, requested deferral by the County until after he had been seated in his new position on May 19, 2009.
- The County wishes to enter into a contract for the construction of a second sanitary sewer forcemain and certain lift station improvements at the Grainger Lift Station in order to serve additional parcels within the Village of Mettawa, parcels owned by Millineum Maintenance Management, Inc., and certain unincorporated parcels in the area.
- An Agreed Order entered on October 1, 2008 in the case captioned *Millineum Maintenance Management, Inc. and Capital Development Group, LLC v. County of Lake et al.* contemplates that subject to certain terms and conditions the County will install and construct the Grainger Lift Station improvements and second forcemain project.
- Per the Agreed Order the Millineum /Capital Group are to pay the sum of \$686,000 and the Village of Mettawa is to pay the sum of \$1,060,000 to the County towards the cost of the construction of the project within five business days after the County Board awards the construction contract and provides written notice.
- Invitations to bid were extended to 17 companies and the County received responsive bids from eight (8) contractors for this work.
- R.A. Mancini, Inc. of Prairie Grove, IL submitted the lowest responsive responsible bid of \$635,275 and has completed work of similar size and type for the County in the past with satisfactory results.
- This resolution authorizes award of the contract to R.A. Mancini, Inc. of Prairie Grove, IL in the amount of \$635,275 to construct the Grainger Lift Station improvements and second force main project, provided that the County has received \$686,000 from Millineum Maintenance Management, Inc. and Capital Development Group, LLC and \$1,060,000 from the Village of Mettawa, and provided that there has been no material breach of the agreed order impacting its effectiveness.

7. New Business

**PUBLIC WORKS**

7.1 [09-1598](#)

Joint presentation of the FY 2008 Audit for the Public Works Department.

- An annual audit of the Public Works Department is conducted as a separate audit from County Corporate audit because Public works operates as an Enterprise Fund with separate funding.
- Virchow, Krause & Company was hired by the County to conduct the Public Works Enterprise audit and has prepared a Financial Statements report in addition to a Management Letter for FY 2008.
- Audit highlights and a review of the FY 2008 Financial Statements will be provided by Mr. John Andres, CPA, President of Virchow, Krause & Company.

**Attachments:** [Lake County Public Works Dept Mgt letter.pdf](#)

[Financial Statement November 30, 2007 and 2008.pdf](#)

7.2 [09-1600](#)

Joint authorization to approve Change Order No. 5 for construction changes on the Des Plaines River WRF Blower, Flowmeter and Sludge Press Addition.

- Change Order No. 5 provides for installation and termination of new wiring between building 80 and building 90 to control and operate three existing sludge feed pumps, and is in the net amount of \$36,679.87.
- This additional work is necessary because it has been determined that one or more of the control and power conductors of the existing sludge feed pumps in building 80 have been damaged and represent an operational liability and safety concern.
- Change Orders No. 1 thru No. 4 have been initiated for a net amount of \$101,845.42 (8.72% of contract amount).
- The addition of Change Orders No. 1 thru No.5 increases the contract amount from \$1,168,300 to \$1,306,825.29 (11.86% of contract amount).
- Change orders that exceed 10% of the total contract amount must be approved by the Public Works & Transportation and Finance & Administration Committees.

7.3 [09-1625](#)

Joint resolution providing for acceptance and approval of a Consent Order, with the Illinois Attorney General and Illinois EPA, relating to the Hawthorn Woods-Glennshire Water Supply System ("HWG WS") and settling the pending lawsuit entitled People ex rel. Madigan v. County of Lake and Village of Hawthorn Woods, 06 CH 2569.

- The County entered into a 1975 Agreement for Water Supply and Operation (1975 Agreement) with the Village of Hawthorn Woods ("Village") to take over operation and ownership of a water supply system known as the Hawthorn Woods-Glennshire water system.
- The Illinois Attorney General filed an IEPA enforcement lawsuit against the County and Village which seeks inter alia a court order mandating the replacement of the HWG WS with a public water system built to IEPA standards.
- A new Bulk Water Agreement was approved by the Village on April 20, 2009 and by the County on May 12, 2009, in which all local approvals required for construction of a new,

replacement, Code-compliant HWG WS has been obtained and the IEPA has issued a construction permit for this replacement system.

- Representatives of the Attorney General and representatives of the County have negotiated terms of a Consent Order, which includes a timeline for the construction and placing in operation of a new, replacement, Code-compliant HWG WS, and a monetary fine, and which Consent Order would settle all claims involved in the People ex rel. Madigan lawsuit.
- The Director of Public Works and the Lake County States Attorney's office recommend acceptance and approval of the County entering into the Consent Order.
- This resolution authorizes the Lake County State's Attorney, either Special Assistant State's Attorney James C. Bakk, or Assistant State's Attorney Daniel L. Jasica, or both, to execute the subject Consent Order on behalf of the County.

**Attachments:** [06.16.09 Consent Order re Hawthorn Woods.doc](#)

#### 7.4 [09-1627](#)

Joint resolution authorizing execution of an agreement for Professional Engineering Services with Rezek, Henry, Meisenheimer and Gende, Inc. for design of the Northeast Central Pump Station Upgrade Project.

- The Northeast Central (NEC) Pump Station serves parts of unincorporated Avon and Warren Townships, as well as portions of the Villages of Grayslake, Hainesville, Gurnee and Third Lake.
- Projected increases to population served by the pump station were evaluated in 2003, and it was determined that an addition of a second parallel 24-inch force main would provide the required increase in station capacity to 24.60 MGD. This project is expected to be awarded later this year.
- In 2009 more recent growth projections and more importantly measured peak wet weather flows have indicated that the pump station capacity must be increased to 28 MGD which will require modification or replacement of the existing pumps and upgrade/replacement of the electrical and controls at the pump station.
- Based on staff evaluations, Rezek, Henry, Meisenheimer and Gende, Inc. of Libertyville, IL, is the most qualified engineering firm with a prior satisfactory working relationship with the County. A scope of services was negotiated for this project.
- Committee authorization is requested to execute an agreement for Professional Engineering Services with RHM & G, Inc. in the amount of \$68,280 for the design and drawing preparation of the Northeast Central Pump Station Upgrade Project charging the cost thereof to Account No. 610-4822698-71170-48310.

#### 7.5 [08-0785](#)

Director's Report - Public Works

### TRANSPORTATION

#### 7.6 [09-1620](#)

IL Rte 21 (IL Rte 137 to IL Rte 120): Letter of Intent (Committee Approval of LOI)

- [IL Rte 21 \(IL Rte 137 to IL Rte 120\): Letter of Intent \(Committee Approval of LOI\)](#)
- The County Board on June 10, 2008 adopted, as a planning document, the "Plan for Use of the Collar County Transportation Empowerment Funds", including the \$50 million in 2011 state challenge bonds.

- The state challenge bonds were offered to IDOT towards construction of projects on three state highway corridors on which some engineering effort was already underway: IL 21 (IL 137 to IL 120), US 45 (IL 21 to IL 83) and IL 60 (US 45 to IL 176).
- The allocation of the 2011 bond money was to be for the projects that IDOT brought forth on these corridors.
- IDOT has made an initial request of \$31 million of said state challenge bonds for the construction of IL 21 (IL 137 to IL 120) in CFY 2011 to widen this existing 2-lane section of highway to 4-lanes.
- IDOT needs assurance by a signed Letter of Intent (LOI) that said challenge bond funding will be forthcoming before it will commit to finalizing engineering and acquiring all necessary right-of-way needed for construction.
- A notification letter was sent out to communities on the other two corridors of the pending action by the PWTC on the IDOT LOI.
- Direction is requested to sign the LOI.

**Attachments:** [ILRt 21 IDOT LOI 20090528084538.pdf](#)

[IL Rt 21 Ltr 20090528084654.pdf](#)

#### 7.7 [09-1632](#)

US Rt. 45 By-pass of Milburn: IDOT Letter of Intent

- [US Rt. 45 By-pass of Milburn: IDOT Letter of Intent](#)
- The county-funded and county-lead Phase I study for this proposed by-pass was authorized by the County Board at its meeting of November 18, 2008.
- This Phase I study is considering a by-pass of 1.5 miles.
- FHWA is requiring the expansion of the Environmental Assessment (EA) portion of the Phase I study to consider a corridor of 5.5 miles: extending from IL Rte. 132 to IL Rte. 173 to comply with NEPA logical termini criteria.
- The EA study is one part of a Phase I engineering study.
- This expanded limit is to ensure compliance with Federal Project Development Procedures and therefore making the by-pass project or the eventual entire project eligible for federal funding.
- Lake County is agreeable to expanding the EA portion of the by-pass Phase I study to these new limits with IDOT funding any additional work required.
- Committee approval is requested to send a LOI (draft attached) to IDOT to formalize IDOT's funding commitment for any necessary additional work.

**Attachments:** [US 45 IDOT LOI 20090528102553.pdf](#)

#### 7.8 [09-1608](#)

Joint resolution amending the Lake County Weight Control Ordinance, previously adopted and revised by this County Board. This amendment designates that portion of Gilmer Road from IL Rte. 176 to a point 600 feet south of Hawley Street as a Class II truck route.

- [Lake County Weight Ordinance: Gilmer Road and from IL Rte. 176 to Hawley Street.](#)
- A business in the southeast quadrant of the intersection of Gilmer Road/Hawley Street has conveyed a business need to utilize trucks legal on IL Rte. 176 to traverse down Gilmer Road to the business.

- This amendment designates that portions of Gilmer Road from IL Rte. 176 to a point 600 feet south of Hawley Street as a Class II Truck Route.

**7.9 [09-1607](#)**

Joint resolution authorizing the execution of a contract for professional services for the completion of a non-motorized travel study on the county highway system at a maximum cost of services described of \$174,216.21 and designated as Section 09-00000-09-ES.

- Non Motorized Travel Study: Consultant Agreement.
- This is a Phase II contract to assess accommodations for non-motorized travel on the county highway system and provide recommended policies for future accommodations to be encompassed within highway improvement projects.
- This resolution authorizes the execution of a professional services agreement with CH2M Hill, Inc., Chicago, Illinois.

**Attachments:** [Non-Motorized Travel AGR 20090528110335.pdf](#)

**7.10 [09-1609](#)**

Joint resolution authorizing a contract for the removal, replacement or refurbishment of pavement markings on the concrete pavements on various county highways and designated as Section 09-00000-06-GM to Maintenance Coatings, South Elgin, Illinois in the amount of \$17,231.96.

- 2009 Pavement Markings for Concrete Pavements: Contract Award
- The county has several miles of pavement markings on concrete pavements for medians, lane lines, and cross walks.
- These markings last longer than paint, but eventually require replacement.
- A total of (2) bids were opened on Tuesday, May 19, 2009 and the lowest responsible bidder is Maintenance Coatings, Co., Inc., South Elgin, Illinois, in the amount of \$17,231.96.

**7.11 [09-1610](#)**

Joint resolution authorizing a contract for the removal, replacement or refurbishment of pavement markings on the bituminous pavements of various county highways and designated as Section 09-00000-07-GM, to Superior Road Striping, Inc., Melrose Park, Illinois in the amount of \$745,238.75.

- 2009 Thermoplastic Pavement Markings for Bituminous Pavements: Contract Award
- The county has several miles of pavement markings on bituminous pavements for medians, lane lines, and crosswalks.
- Thermoplastic Pavement Markings last longer than paint but eventually require replacement.
- The replacement project is in the 2009 program.
- A total of (5) bids were opened and the lowest responsible bidder is Superior Road Striping, Inc., Melrose Park, Illinois, in the amount of \$745,238.75.

**7.12 [09-1611](#)**

Joint resolution awarding a contract for the resurfacing or seal coating of portions of the Washington Street Bike Path, the Millennium Bike Path and the Skokie Valley Bike Path and designated as Section 07-00000-10-RS to the lowest responsible bidder Chicagoland Paving Contractors, Inc., Lake Zurich, Illinois, in the amount of \$30,655.

- 2009 Bike Path Surface Maintenance: Contract Award
- This bike path work is in the 2009 Program.
- A total of 4-bids were received and the lowest responsible bidder is Chicagoland Paving Contractors, Inc., Lake Zurich, Illinois in the amount of \$30,655.

**7.13 09-1612**

Joint resolution authorizing a contract for joint repair and pavement grinding of Arlington Heights Road and Buffalo Grove Road and the addition of a southbound thru-lane on Buffalo Grove Road from Deerfield Parkway to IL Rte. 83 and designated as Section 08-00999-02-RP to Vixen Construction, Inc., Bridgeview, Illinois in the amount of \$2,379,085.70.

- Arlington Heights Road (Rt. 83 to Lake Cook Road), Resurfacing, and Buffalo Grove Road (Deerfield Parkway to IL Rte. 83) Resurfacing and Additional Southbound Lane: Contract Award
- This pavement grinding and lane addition have been identified within the 2009 Program.
- A total of 6-bids were received and the lowest responsible bidder is Vixen Construction, Inc., Bridgeview, Illinois in the amount of \$2,379,085.70.

**7.14 09-1613**

Joint resolution authorizing a contract for the installation of a southbound to westbound right-turn lane on IL Rte. 21 at Winchester Road and extending the eastbound left-turn lane on Winchester Road and designated as Section 07-00151-19-CH to Alliance Contractors, Inc., Woodstock, Illinois in the amount of \$415,879.75.

- Winchester Road at IL Rte. 21; Intersection Improvement: Contract Award
- This improvement is included in the 2009 Program.
- A total of 4-bids were received and the lowest responsible bidder is Alliance Contractors, Inc., Woodstock, Illinois in the amount of \$415,879.75.

**7.15 09-1614**

Joint resolution authorizing the execution of a contract for professional services for the design of the reconstruction and 3-laning of Wadsworth Road from the Des Plaines River Bridge to Cashmore Road in downtown Wadsworth at a maximum cost of services described of \$223,377.61 and appropriates \$270,000 of Matching Tax funds and designated as Section 01-00033-10-ES.

- Wadsworth Road, Reconstruction and 3-lanes (Des Plaines River Bridge to Cashmore Road): Consultant Agreement and Appropriation.
- This is a Phase II engineering contract for roadway reconstruction and 3-lane widening.
- This resolution authorizes the execution of a professional services agreement with Christopher B. Burke Engineering, Rosemont, IL., for Phase II engineering services and appropriates \$270,000 of Matching Tax funds.

**Attachments:** [Wadsworth Rd AGRMT 20090528105526.pdf](#)

**7.16 09-1615**

Joint resolution appropriating \$325,000 of County Bridge Tax funds for the repair and resurfacing of the bridge deck of Stearns School Road over I-94 and designated as Section 07-00236-02-BR.

- Stearns School Road Bridge over I-94 Deck Repair and Resurfacing: Appropriation.
- This bridge deck repair and resurfacing is included in the 2009 Program.

- Before a project letting can be held an appropriation of \$325,000 of County Bridge Tax funds is necessary.

**7.17 [09-1616](#)**

Joint resolution appropriating \$385,000 of County Bridge Tax funds for the repair and resurfacing of the bridge deck of Pulaski Drive over US Rte. 41 and designated as Section 08-00196-06-BR.

- Pulaski Drive Bridge over US Rte. 41 Deck Repair and Resurfacing: Appropriation.
- This bridge deck repair and resurfacing is included in the 2009 Program.
- Before a project letting can be held an appropriation of \$385,000 of County Bridge Tax funds is necessary.

**7.18 [09-1633](#)**

Joint resolution authorizing the execution of an Illinois Environmental Protection Agency standard formal Highway Authority Agreement and a Lake County Supplemental Highway Authority Agreement between BP Products North America Inc. and Lake County as required by the IEPA in order for it to consider the issuance of a "No Further Remediation" letter to BP for its property at 2132 Green Bay Rd in North Chicago necessary for the redevelopment of said property.

- Dr Martin Luther King Jr. Drive NW Quadrant at IL Rte 131, Highway Authority Agreements with BP Products North America Inc.
- BP Products North America Inc. (BP) owns property situated at 2132 Green Bay Road, North Chicago, Illinois which has or had leaking underground storage tanks impacting the right of way of Dr Martin Luther King Jr. Drive.
- BP is requesting a "No Further Remediation" letter from the Illinois Environmental Protection Agency (IEPA) relative to this property.
- As a condition of granting said "No Further Remediation" letter the IEPA requires property owners to enter into standard formal Highway Authority Agreements stating rights and obligations relative to contaminants that may have migrated into nearby highway rights-of-way.
- Lake County has determined that a Supplemental Highway Authority Agreement is also necessary.
- This resolution authorizes the execution of both agreements with BP.

**Attachments:** [HA AGRMT 20090528100810.pdf](#)

[SUPPEMENTAL HA AGRMT 20090528100855.pdf](#)

**7.19 [09-1636](#)**

Joint resolution appropriating \$2,560,000 of Motor Fuel Tax funds for the widening, resurfacing, and the installation of permanent traffic controls signals at the intersection of Fairfield Road and Nippersink Road and designated as Section 02-00150-02-TL.

- Fairfield Road at Nippersink Road; Widening, Resurfacing and the Installation of Permanent Traffic Controls Signals: Appropriation
- This intersection improvement is included in the 2009 Program.
- Before a project letting can be held an appropriation of \$2,560,000 of Motor Fuel Tax funds is necessary.

**7.20 [09-1629](#)**

Joint committee action item approving IDOT Change Order No. 1 consisting of an increase of \$38,751.67 for additions to the Phase I Engineering services for River Road at Roberts Road, designated as Section No. 07-00086-08-CH.

- River Road at Roberts Road, Intersection Project, Phase I Engineering Services: IDOT Change Order No. 1
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The River Rd at Roberts Rd intersection improvement project is a federally funded Phase I study.
- The Phase I contract is with Bollinger, Lach & Associates, Inc., in the amount of \$233,147.40.
- It has been determined that extent of the flood plain at the intersection requires the extension of the project limits on the south leg so that the new pavement on the River Rd approach leg will be 1-foot above the floodplain elevation.
- Additional engineering services are necessary to extend the project limits.  
IDOT approval for the Phase I will be required.

Summary: Original awarded contract - \$233,147.40; Change Order No. 1 - \$38,751.67; sum of all changes - \$38,751.67.

**Attachments:** [River Rd CO#1 20090528085512.pdf](#)

7.21 [09-1630](#)

Joint committee action item approving Change Order No. 1 consisting of an increase of \$27,116.45 for additions to the Phase I Engineering services for Deerfield Road Bike Path over the Des Plaines River, designated as Section No. 04-00038-03-BT.

- Deerfield Road Bike Path (Des Plaines River Trail to Thornmeadow Road), Phase I Engineering Services: LCDOT Change Order No. 1
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Deerfield Road project is under contract with Christopher B. Burke Engineering, Ltd., in the amount of \$122,633.19 and is being done to be eligible for federal construction funding.
- Additional engineering services are being requested based on the extra level of engineering and coordination effort required to achieve project concurrence from all of the involved regulatory and/or review agencies.
- Data Collection: The original plans were to design a bike path on embankment; however, determining that there was no site available for the proposed volume of compensatory storage, a boardwalk design with a unique "diamond pier type" foundation is being reviewed. With the new design, compensatory storage is still needed but at a much lower volume. An additional tree survey on the west side of the river to determine a suitable location for this comp storage is required.
- Floodplain Studies and Hydraulic Report: Several different alternatives from the original scope have identified that additional work is necessary to determine logical locations for compensatory storage. As the preferred alternative was chosen, a concept design for an on-site compensatory storage site needs to be developed and coordinated with LCFPD and LCSMC.
- Coordination: Based on the above project development issues and additional alternatives, substantial additional coordination is required with LCDOT, IDOT, FHWA, LCSMC, and USACOE in the form of phone conferences and formal meetings to secure overall project concurrence.
- Phase I Report: With the work effort required to complete Phase I Engineering for this project, including the greater number of alternatives developed and evaluated, preparation of the Phase I report will be more complex than originally anticipated and will require multiple content and exhibit revisions for submittal to IDOT.

Summary: Original awarded contract - \$122,633.19; Change Order No. 1 - \$27,116.45; sum of all changes - \$27,116.45.

**Attachments:** [Deerfield BP Des PI TRL 20090528090431.pdf](#)

7.22 [09-1631](#)

IDOT Change Order No. 11a & Estimated Final for the Deerfield Road Bike Path from Saunders Road to Wilmot Road.

- Deerfield Road Bike Path from Saunders Road to Wilmot Road: Change Order No. 11a & Estimated Final
- Change orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Deerfield Rd. Bike Path project is under an original awarded contract at bid unit prices totaling \$2,143,834.73.

- The last change order, #10, was a pre-final balancing change order for field measurements of completed work representing an increase of \$81,254.33.
- The total of Change Orders 1-10 is \$293,519.65, with the major cost with earlier change orders mainly due to the re-design of 4 walls that are part of the tunnel under the Tollway ramp. The original bid material of small modular block was later found to be limited only to wall heights of 7' or less due to IDOT policies. For this project's taller walls of about 14', LCDOT changed the wall material to a heavy block material to comply. Several other field changes to address unforeseen circumstances contributed as well. Many of these addressed safety concerns such as adding a truck detour so long vehicles did not have to negotiate the tight conditions on the Tollway ramp during construction.
- This project is on a deadline of June 30, 2009 for financial closeout with final contractor payment so the County can provide proper invoice billing to IDNR for its awarded Bike Illinois Grant of \$134,900.
- A balancing change order puts awarded quantities into balance with final field measurements so final payment can be made to the Contractor for actual work completed.
- The estimated final balancing Change Order #11a is a deduction in the amount of \$49,691.46, which still leaves the project at a cumulative net increase over 10%.
- PWTC and FAC approval is requested for the estimated final balancing Change Order #11a with further approval given to the County Engineer to approve the final deduction as Change Order 11b & Final to make the June 30 financial closeout.

**Summary:** Original awarded contract at bid unit prices - \$2,143,834.73 - 13.691%; Change Order No. 1-10 - \$293,519.65 - 13.691%; Change Order No. 11a Estimated\* - \$49,691.46 - 2.318%; Sum of all changes (Estimated) \$243,828.19 - 11.373%

\* The County Engineer is to create and sign Change Order 11b and Final based on final measured quantities for actual work performed.

**Attachments:** [Deerfield BP Saunder #11\\_20090528103201.pdf](#)

**7.23 [09-1617](#)**

Proposed 2009-2014 Highway Improvement Program (Information)

**7.24 [09-1628](#)**

IDOT FY2010 - 2015 Proposed Highway Improvement Program (Information)

**DIRECTOR'S REPORT - TRANSPORTATION**

**8. Executive Session**

**9. County Administrator's Report**

**10. Adjournment**