

Lake County Illinois

*Public Works
650 W Winchester Road
Libertyville, Illinois 60048*



Agenda Report - Final

Wednesday, April 3, 2019

8:30 AM

Maintenance Room

Public Works, Planning & Transportation Committee

1. Call to Order
2. Pledge of Allegiance
3. Addenda to the Agenda
4. Public Comment
5. Chair's Remarks
6. Old Business
7. New Business

CONSENT AGENDA (7.1 - 7.8)

Approval of Minutes

7.1 [19-0553](#)

Minutes from November 7, 2018.

Attachments: [PWT 11.7.18 Minutes Final](#)

7.2 [19-0554](#)

Minutes from January 9, 2019.

Attachments: [PWPT 1.9.19 Minutes Final](#)

7.3 [19-0498](#)

Joint resolution authorizing a contract with Peter Baker and Son Company, Lake Bluff, Illinois, in the amount of \$277,807.06 for the construction of leveling binder and surface course lifts on an existing milled surface on various roads in the Cuba Township Road District, which will be improved under the Illinois Highway Code for a total of 1.3 miles.

- There was a public call for bids, and a total of four bids were received, ranging from \$277,807.06 to \$372,700, and the lowest responsible bidder is Peter Baker and Son Company in the amount of \$277,807.06.
- This improvement is designated as Section 19-04000-00-GM.

Attachments: [19-0498 Bid Tab, Cuba Road District 2019](#)

7.4 [19-0499](#)

Joint resolution authorizing a contract with Peter Baker and Son Company, Lake Bluff, Illinois, in the amount of \$509,771.05 for the hot-mix asphalt surface removal, Class D Patching and construction of leveling binder and surface course lifts on various roads in the Fremont Township Road District, which will be improved under the Illinois Highway Code for a total of 2.82 miles.

- There was a public call for bids, and a total of three bids were received, ranging from \$509,771.05 to \$731,888, and the lowest responsible bidder is Peter Baker and Son Company in the amount of \$509,771.05.

- This improvement is designated as Section 19-07000-01-GM.

Attachments: [19-0499 Bid Tab, Fremont Road District 2019](#)

7.5 **19-0500**

Joint resolution authorizing a contract with Schroeder Asphalt Service, Inc., Marengo, Illinois, in the amount of \$101,022.01 for the hot-mix asphalt surface removal, Class D Patching and construction of leveling binder and surface course lifts on Marion Drive and Apple Lane in the Warren Township Road District, which will be improved under the Illinois Highway Code for a total of .4 miles.

- There was a public call for bids, and a total of five bids were received, ranging from \$101,022.01 to \$137,668.47, and the lowest responsible bidder is Schroeder Asphalt Service, Inc. in the amount of \$101,022.01.
- This improvement is designated as Section 19-14141-00-GM.

Attachments: [19-0500 Bid Tab, Warren Road District 2019](#)

7.6 **19-0492**

Joint resolution authorizing a contract with J.A. Johnson Paving Company, Arlington Heights, Illinois, in the amount of \$536,908.85 for annual bituminous maintenance of various roads on the County highway system and appropriating \$644,500 of Matching Tax funds.

- Each year, the County undertakes maintenance of its bituminous highway pavements to preserve the surface quality.
- There was a public call for bids, and a total of four bids were received, ranging from \$536,908.85 to \$682,597, and the lowest responsible bidder is J.A. Johnson Paving Company in the amount of \$536,908.85.
- This project is included in the highway improvement program with construction in 2019, and designated as Section 19-00000-13-GM.

Attachments: [19-0492 Bid Tab, 2019 Bituminous Maintenance](#)

7.7 **19-0496**

Joint resolution authorizing a contract with SKC Construction, Inc., Elgin, Illinois, in the amount of \$70,736.40 to provide for crack sealing of bituminous pavement, where necessary, on various County highways under the Illinois Highway Code, appropriating \$85,000 of Matching Tax funds.

- Each year, crack sealing is done to County highways to prevent the intrusion of water and incompressible material into the cracks and to reinforce the adjacent pavement.
- There was a public call for bids and a total of three bids were received, ranging from \$70,736.40 to \$74,986, and the lowest responsible bidder is SKC Construction, Inc. in the amount of \$70,736.40.
- This project is included in the highway improvement program with construction in 2019, and designated as Section 19-00000-04-GM.

Attachments: [19-0496 Bid Tab, 2019 Crack Seal](#)

7.8 [19-0494](#)

Joint resolution authorizing a contract with Home Towne Electric Company, Lake Villa, Illinois, in the amount of \$493,121.10 for the installation of Intelligent Transportation System (ITS) PASSAGE Field Elements, appropriating \$591,800 of ¼% Sales Tax for Transportation funds along various routes in Lake County.

- The ITS PASSAGE Field Elements include installation of communication infrastructure (fiber and conduit or wireless equipment), and new closed-circuit television cameras and video encoders at various locations.
- There was a public call for bids, and a total of two bids were received, ranging from \$493,121.10 to \$511,455.60, and the lowest responsible bidder is Home Towne Electric, Inc. with a contract amount of \$493,121.10.
- This project is included in the highway improvement program with construction in 2019 and designated as Section 18-00268-17-TL.

Attachments: [19-0494 Bid Tab, ITS Passage Field Elements](#)

REGULAR AGENDA

PUBLIC WORKS

7.9 [19-0540](#)

Presentation to provide an update on the progress of the water and sewer rate and connection fees study.

Attachments: [19-0540 Lake County Presentation - Rate Study Update v5.pdf](#)

7.10 [19-0541](#)

Ordinance amending water and sewer related rates for certain Lake County systems to adjust for a third-party pass-through rate increase to the previously approved ordinance.

- The Rate Ordinance establishes all water and sewer user rates and connection fees for the County's water and sewer systems and is reviewed annually or as needed.
- Under the terms of the agreement between the County and the Village of Libertyville, the Village can adjust wastewater treatment plant charges to the County when there is a rate adjustment for Village users.
- The Village of Libertyville has notified the County of a wholesale sewer increase that will take effect June 1, 2019 and affect all users of the treatment facility including users within the Village of Green Oaks.
- The wholesale sewer rate charged to the County will increase \$1.20 from \$38.78 to \$39.98 per residential customer equivalent (RCE), or \$4.85 to \$5, per 1,000 gallons.
- The Green Oaks wholesale sewer rate will increase from \$48.39 to \$48.81 per RCE, or \$6.05 to \$6.10 per 1,000 gallons.
- The County has already provided notice of the increase to the Village of Green Oaks.

Attachments: [19-0541 Rate Ordinance update for Libertyville pass-through Committee.](#)

7.11 [19-0545](#)

Joint resolution authorizing an emergency appropriation in the amount of \$52,500 within the Lake County Public Works Department's Fund 620 for the Northern Lake County Lake Michigan Water Planning Group's (NLCLMWPG) activities occurring May 1, 2019 through April 30, 2020.

- NLCLMWPG was established by the County, Lake Villa, and Lindenhurst to plan and coordinate efforts to extend Lake Michigan water to northern Lake County.
- The group meets monthly to discuss items associated with the Central Lake County Joint Action Water Agency (CLCJAWA) water system extension project and Special Service Area Number 16.
- The County serves as the repository and executor of the group's funds and financial transactions.
- On March 21, 2019, the NLCLMWPG approved an annual budget of \$52,500 for May 1, 2019 through April 30, 2020 consistent with previous year budgets. The budget is not appropriated as part of the county's normal budget cycle; therefore, an emergency appropriation is required.
- This resolution authorizes an emergency appropriation in the amount of \$52,500 within the Public Works fund 620 for the NLCLMWPG for May 1, 2019 through April 30, 2020 activities.

Attachments: [19-0545 NCLCLMWPG '19-'20 budget.pdf](#)

7.12 [19-0546](#)

Joint committee action ratifying Change Order Numbers One through Three for the Supervisory Control and Data Acquisition (SCADA) Phase II contract with Wunderlich-Malec Services, Inc., Minnetonka, Minnesota, resulting in a net cost reduction of \$227,150 from \$1,146,751 to \$919,601.

- On January 27, 2015, a contract was issued to Wunderlich-Malec Services, Inc. for the construction and implementation of a SCADA system to communicate and collect data from remote Public Works sites to control centers at the water reclamation facilities.
- Change Order Number One removed several sites from the project, converted some sites from radio transmission to cellular communication and removed construction of a 190-foot communication tower resulting in a decreased cost of \$322,085.
- Change Order Number Two added installation of a radio antenna at East Main Pump Station, converted additional radio sites to cellular communication and resolved data transfer problems at the Washington Street Storm Station resulting in an increased cost of \$620.
- Change Order Number Three addressed additional time and materials to resolve data transfer problems to the Mill Creek water reclamation facility and the purchase of additional SCADA tag software licenses resulting in an additional cost of \$94,330.
- In accordance with Article 8, Section 101(2) of the Lake County Purchasing Ordinance, these change orders were not reasonably foreseeable at the time the contract was signed.
- This resolution authorizes and directs the County Purchasing Agent to execute a contract change order with Wunderlich-Malec Services, Inc., reducing the original contract value by \$227,150, from \$1,146,751 to \$919,601.

Attachments: [19-0546 SCADA Wunderlich Contract 2014.10.08.pdf](#)

7.13 [19-0542](#)

Joint resolution authorizing an Intergovernmental Agreement (IGA) between Lake County and the Village of Beach Park to provide fully reimbursed maintenance services for sewer-related operations.

- The County and the Village of Beach Park wish to enter into this IGA to protect the health, safety, and welfare of the residents of Lake County.
- The County will perform maintenance services for the Village of Beach Park on an as needed basis as outlined in a comprehensive agreement.
- The IGA allows County staff to provide routine preventative maintenance, lift station maintenance and operation services, bank and load testing of generator(s), and perform root cutting, cleaning, and televising of sanitary sewers mains.
- County staff will charge the Village of Beach Park on a time and material basis for the operational and maintenance services provided.
- The agreement was approved by the Village of Beach Park at its February 28, 2019, meeting, pending approval by the County Board.
- This resolution authorizes the execution of an IGA between Lake County and the Village of Beach Park to provide maintenance services for sewer-related operations.

Attachments: [19-0542 Beach Park Lake County Sewer Maintenance Agreement.pdf](#)

7.14 [19-0483](#)

Joint resolution authorizing a contract with Menoni and Mocogni, Inc., Highland Park, Illinois, for the purchase of sand, gravel, stone, and spoil removal services in an estimated amount of \$227,580.

- The previous contract has expired, and the Purchasing Division prepared a shared-services bid to purchase materials including sand, gravel, stone, and spoil removal services for Lake County's Department of Public Works and Division of Transportation, and the Villages of Mundelein, Lake Zurich, and Lincolnshire.
- An invitation to bid was issued and extended to twelve qualified vendors and sealed bids were received from four vendors, ranging from \$227,580 to \$296,400.
- Menoni and Mocogni, Inc. was determined to be the lowest responsive and responsible bidder who best meets the needs of the County in an estimated amount of \$227,580, based upon unit pricing.

Attachments: [Bid Tab.pdf](#)

[19019 Award Recommendation.pdf](#)

[Menoni and Mocogni.pdf](#)

7.15 [19-0060](#)

Director's Report - Public Works.

DIVISION OF TRANSPORTATION

7.16 [19-0495](#)

Joint resolution authorizing a contract with Meade Electric Company, Inc., Willowbrook, Illinois, in the amount of \$185,375 for Light Emitting Diode (LED) street light upgrades, appropriating \$222,500 of ¼% Sales Tax for Transportation funds.

- This work includes retrofitting existing street lighting fixtures with LED luminaires at various intersections. This is the final phase in upgrading all county-owned street lights from incandescent bulbs to LED.
- There was a public call for bids, and a total of three bids were received, ranging from \$185,375 to \$267,011, and the lowest responsible bidder is Meade Electric Company with a contract amount of \$185,375.
- This improvement is included in the highway improvement program for construction in 2019 and designated as Section 18-00999-61-TL.

Attachments: [19-0495 Bid Tab, Street Lighting Upgrade - Signals](#)

7.17 [19-0497](#)

Joint resolution authorizing a contract with Corrective Asphalt Materials, Inc., South Roxana, Illinois, in the amount of \$779,535.52 for the application of a pavement rejuvenator on various County highways, appropriating \$935,500 of Matching Tax funds.

- Lake County's Pavement Rejuvenator Program is an annual program consisting of applying a pavement rejuvenator, a maltene based spray, on all new asphalt roadway surfaces completed in the prior year's reconstruction and resurfacing projects.
- The pavement rejuvenator has been found to add about five years of life to the pavement.
- The 2019 Pavement Rejuvenator Program will include applying rejuvenator to the reconstruction and resurfacing projects from 2017 and 2018.
- There was a public call for bids, and a total of one bid was received in the amount of \$779,535.52, and the responsible bidder is Corrective Asphalt Materials, Inc. in the amount of \$779,535.52.
- This project is included in the highway improvement program with construction in 2019, and designated as Section 19-00000-16-PP.

Attachments: [19-0497 Bid Tab, Pavement Rejuvenator](#)

7.18 [19-0491](#)

Joint resolution authorizing a contract with Peter Baker and Son Company, Lake Bluff, Illinois, in the amount of \$2,790,604.08 for the resurfacing of Fremont Center Road, from Gilmer Road to Erhardt Road, including replacement of the Squaw Creek culvert and resurfacing Gilmer Road, from Illinois Route 176 to Hawley Street.

- There was a public call for bids, and a total of one bid was received in the amount of \$2,790,604.08, and the responsible bidder is Peter Baker and Son Company in the amount of \$2,790,604.08.
- This improvement has been identified within the County's pavement management system and is included in the highway improvement program with construction in 2019

and designated as Section 14-00138-03-RS.

- On November 14, 2017, \$3,000,000 of Matching Tax funds was appropriated for construction.

Attachments: [19-0491 Bid Tab, Fremont Center Road and Gilmer Road Resurfacing](#)

7.19 [**19-0493**](#)

Joint resolution authorizing a contract with Lorig Construction Company, Des Plaines, Illinois, in the amount of \$1,467,849.51 for the replacement of the Hutchins Road at Mill Creek triple barrel culverts with a single span bridge structure, appropriating \$1,761,500 of County Bridge funds.

- The culverts at Hutchins Road at Mill Creek have reached the end of their service life and need to be replaced.
- There was a public call for bids, and a total of four bids were received, ranging from \$1,467,849.51 to \$1,962,139.26 and the lowest responsible bidder is Lorig Construction Company in the amount of \$1,467,849.51.
- This improvement is included in the highway improvement program with construction in 2019, and designated as Section 17-00275-02-BR.

Attachments: [19-0493 Bid Tab, Hutchins Road at Mill Creek Bridge](#)

[19-0493 Justification of Bid, Hutchins Road Over Mill Creek Bridge](#)

7.20 [**19-0501**](#)

Joint resolution authorizing an Intergovernmental Agreement (IGA) with the Village of Barrington for intersection improvements of Hart Road at United States (US) Route 14.

- Hart Road at US Route 14 will be improved by widening and reconstruction.
- The improvement will provide additional lanes at the intersection, include multi-use path and sidewalk facilities, add new traffic signals, and add new railroad signals and gates.
- The Village of Barrington owns a watermain and sanitary sewer within the project limits requiring relocation and/or adjustments.
- The Village of Barrington desires construction of a sidewalk and multi-use path, and improvements along Hart Road north of US Route 14, which is under Village jurisdiction.
- The Village of Barrington will reimburse Lake County for the engineering and construction costs associated with this work, estimated to be \$281,033.
- This resolution authorizes the execution of an IGA with the Village of Barrington.
- This improvement is included in the Highway Improvement Program, with construction planned to begin in late 2019 or early 2020, and designated as Section 09-00174-05-CH.

Attachments: [19-0501 Hart at 14 Village of Barrington Agreement](#)

7.21 [**19-0502**](#)

Joint resolution authorizing an agreement with the State of Illinois, Illinois Department of Transportation (IDOT), to use federal highway funds for construction and construction engineering for improvements of Hart Road at United States (US) Route 14 and appropriating \$3,710,000 of ¼% Sales Tax for Transportation funds.

- The intersection of Hart Road at US Route 14 will be reconstructed and widened.
- The improvement will provide additional lanes at the intersection, include multi-use path

- and sidewalk facilities, add new traffic signals, and add new railroad signals and gates.
- The County has been allocated federal funds for this improvement, which are administered by IDOT.
- This agreement provides that IDOT will pay up to 80 percent of the construction cost, and the County will be eligible to receive up to 80 percent reimbursement for the construction engineering cost if additional funding is available.
- The total construction cost, including construction engineering, is estimated to be \$9,120,000.
- This improvement is included in the Highway Improvement Program, with construction planned to begin in late 2019 or early 2020, and designated as Section 09-00174-05-CH.

Attachments: [19-0502 Hart Road at US 14, IDOT Agreement](#)

7.22 [19-0503](#)

Joint resolution authorizing the execution of an agreement with Howard R. (HR) Green, Inc., McHenry, Illinois, for Phase III construction engineering services for the widening and reconstruction of Hart Road at United States (US) Route 14, at a maximum cost of \$777,425.28.

- Lake County selects professional engineering firms in accordance with the Local Government Professional Services Selection Act, 50 ILCS 510/1 et. Seq.
- The Lake County Division of Transportation's (LCDOT) Consultant Selection Process has been approved by the Federal Highway Administration and the Illinois Department of Transportation, and the firm selected for this project was selected in accordance with this approved process.
- Phase III construction engineering services are required to utilize federal highway funds for the Hart Road at US Route 14 widening and reconstruction.
- LCDOT received and evaluated Statements of Qualification from seven professional firms, of which three were short-listed and presented to a consultant selection committee.
- The selected, and recommended, firm is HR Green, Inc. with a maximum cost of \$777,425.28.
- This improvement is included in the Highway Improvement Plan, with construction starting in late 2019 or early 2020, and designated as Section 09-00174-05-CH.

Attachments: [19-0503 Hart Road at US 14 Consultant Agreement, HR Green](#)
[19-0503 Hart at 14 Consultant Vendor Disclosure HR Green](#)

7.23 [19-0504](#)

Joint resolution authorizing two agreements with the Union Pacific Railroad (UPRR) for improvements to the UPRR facilities and right-of-way necessary to accommodate the intersection improvements of Hart Road at United States (US) Route 14, and appropriating \$1,011,000 of ¼% Sales Tax for Transportation funds.

- Hart Road at US Route 14 will be improved by widening and reconstruction.
- The improvement will provide additional lanes at the intersection, include multi-use path and sidewalk facilities, and replace the existing traffic signals.
- These improvements will require the UPRR to widen the existing railroad crossing and install new roadway and pedestrian signals and gates.

- Lake County will reimburse the UPRR for this work.
- The construction cost for this work is estimated to be \$842,000.
- The County may be eligible to receive up to 80 percent federal reimbursement for this cost.
- This resolution authorizes two agreements with the UPRR.
- This improvement is included in the Highway Improvement Program, with construction planned to begin in late 2019/early 2020, and designated as Section 09-00174-05-CH.

Attachments: [19-0504 Hart at 14 RxR Grade Crossing Agreement FINAL 3-13-19](#)

[19-0504 Hart at 14 RxR Pipeline&RipRap Agreement FINAL 3-13-19](#)

7.24 **19-0521**

Joint resolution urging the Governor of Illinois and the General Assembly to work together to pass a transportation capital bill in Fiscal Year 2019 that will provide necessary sustainable funding to maintain the public infrastructure and make critical improvements to meet current and future travel demands, including engineering and constructing the improvements identified in the State Highway Consensus Plan for Lake County.

- Lake County is in support of a multi-modal transportation system that includes motorized and non-motorized elements.
- Lake County understands that an efficient and sustainable transportation network contributes to the high quality of life for County residents and promotes a strong economy.
- A State Highway Consensus Plan was developed in 2006 and reaffirmed with Lake County partner communities in 2019, which identified more than \$150,000,000,000 worth of regionally beneficial capacity improvements needed on the State Highway System.
- The Consensus Plan takes a regional approach and selected projects based on benefits to the overall system. Since 2006, this plan has been viewed as a model for collaboration, success, and results across the state.
- Lake County has invested more than \$150,000,000 of local money to improve the State Highway System over the past ten years, and more than \$1,000,000,000 worth of improvements remain on the State Highway Consensus Plan for Lake County.

Attachments: [19-0521 State Highway Consensus Plan \(2-8-19\)](#)

[19-0521 State Highway Consensus Plan Recap](#)

7.25 **19-0506**

Presentation on the Paratransit Market Study Final Report.

Attachments: [19-0506 Paratransit Market Study, Final Report](#)

7.26 **19-0001**

Director's Report - Transportation.

8. Executive Session

8.1 [19-0568](#)

Executive session to review closed session minutes pursuant to 5 ILCS 120/2 (c)(21).

8.1A [19-0587](#)

Committee action regarding semi-annual review of closed session minutes.

9. County Administrator's Report

10. Members' Remarks

11. Adjournment

Next Meeting: May 1, 2019